Whether it’s providing information about specific product features, taking a tour through your vehicle’s heritage, knowing what steps to take following an accident or scheduling your next appointment, we know you’ll find the app an important extension of your Jeep® brand vehicle.

Simply download the app, select your make and model and enjoy the ride. To get this app, go directly to the App Store® or Google Play® Store and enter the search keyword “JEEP” (U.S. residents only).
WARNING: Operating, servicing and maintaining a passenger vehicle or off-highway motor vehicle can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your vehicle in a well-ventilated area and wear gloves or wash your hands frequently when servicing your vehicle. For more information go to www.P65Warnings.ca.gov/passenger-vehicle.

This Owner's Manual Supplement illustrates and describes the operation of features and equipment that are either standard or optional on this vehicle. This supplement may also include a description of features and equipment that are not 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. FCA US LLC reserves the right to make changes in design and specifications, and/or make additions to or improvements to its products without imposing any obligation upon itself to install them on products previously manufactured.

With respect to any vehicles sold in Canada, the name FCA US LLC shall be deemed to be deleted and the name FCA Canada Inc. used in substitution therefor. If you are the first registered retail owner of your vehicle, you may obtain a complimentary printed copy of the Warranty Booklet by calling 1-877-426-5337 (U.S.) or 1-800-387-1143 (Canada) or by contacting your dealer.

This Owner's Manual Supplement is intended to familiarize you with the important features of your vehicle. Your most up-to-date Owner's Manual Supplement, Navigation/Connect manuals and Warranty Booklet can be found by visiting the website on the back cover. U.S. residents can purchase replacement kits by visiting www.techauthority.com and Canadian residents can purchase replacement kits by calling 1-800-387-1143.

The driver's primary responsibility is the safe operation of the vehicle. Driving while distracted can result in loss of vehicle control, resulting in an accident and personal injury. FCA US LLC strongly recommends that the driver use extreme caution when using any device or feature that may take their attention off the road. Use of any electrical devices, such as cellular telephones, computers, portable radios, vehicle navigation or other devices, by the driver while the vehicle is moving is dangerous and could lead to a serious accident. Texting while driving is also dangerous and should never be done while the vehicle is moving. If you find yourself unable to devote your full attention to vehicle operation, pull off the road to a safe location and stop your vehicle. Some states or provinces prohibit the use of cellular telephones or texting while driving. It is always the driver's responsibility to comply with all local laws.

This Owner's Manual Supplement has been prepared to help you get acquainted with your new Jeep® brand vehicle and to provide a convenient reference source for common questions. Not all features shown in this manual may apply to your vehicle. For additional information, visit www.mopar.com (U.S.), www.mopar.ca (Canada) or your local Jeep® brand dealer.

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DRIVING AND ALCOHOL
Drunk driving is one of the most frequent causes of accidents. Your driving ability can be seriously impaired by 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.

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# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th></th>
<th>INTRODUCTION .............................................................................................................................</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>GETTING TO KNOW YOUR VEHICLE ..................................................................................................</td>
<td>4</td>
</tr>
<tr>
<td>3</td>
<td>GETTING TO KNOW YOUR INSTRUMENT PANEL ................................................................................</td>
<td>5</td>
</tr>
<tr>
<td>4</td>
<td>STARTING AND OPERATING .........................................................................................................</td>
<td>14</td>
</tr>
<tr>
<td>5</td>
<td>SERVICING AND MAINTENANCE ..................................................................................................</td>
<td>33</td>
</tr>
<tr>
<td>6</td>
<td>TECHNICAL SPECIFICATIONS ....................................................................................................</td>
<td>48</td>
</tr>
<tr>
<td>7</td>
<td>INDEX .......................................................................................................................................</td>
<td>54</td>
</tr>
</tbody>
</table>
A MESSAGE FROM FCA US LLC

FCA US LLC welcomes you as a turbocharged diesel-powered vehicle owner. Your diesel vehicle will sound, feel, drive and operate differently from a gasoline-powered vehicle. It is important that you read and understand this manual.

You may find that some of the starting, operating, and maintenance procedures are different. However, they are simple to follow and careful adherence to them will ensure that you take full advantage of the features of this engine.

NOTE:

- Some aftermarket products may cause severe engine/transmission and/or exhaust system damage. Your vehicle's powertrain control systems can detect and store information about vehicle modifications that increase horsepower and torque output such as whether or not performance-enhancing powertrain components, commonly referred to as downloaders, power boxes, or performance chips have been used.

- Any chassis/suspension or tire size modifications to the vehicle will affect the performance of the Adaptive Cruise Control and Forward Collision Warning System.

This information cannot be erased and will stay in the system's memory even if the modification is removed. This information can be retrieved by FCA US LLC, and service and repair facilities, when servicing your vehicle. This information may be used to determine if repair will be covered by New Vehicle Limited Warranty.

There is a probability that the use of a "performance chip" will prohibit the engine from starting. In this instance, the vehicle will need to be serviced by an authorized dealer in order to return the vehicle to it's factory settings.

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

This system uses the key fob 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.
- Obstructions between the vehicle and the key fob may reduce this range.
- The Remote Start system will wait for the “Wait To Start” yellow telltale to extinguish before cranking the engine. This allows time for the engine pre-heat cycle to pre-heat the cylinder air, and is normal in cold weather. Refer to “Warning Lights And Messages” in “Getting To Know Your Instrument Panel” for further information.

How To Use Remote Start

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

- Gear selector in PARK
- Doors closed
- Hood closed
- Hazard switch off
- Brake switch inactive (brake pedal not pushed)
- Battery at an acceptable charge level
- PANIC button not pushed
- Fuel meets minimum requirement
- System not disabled from previous Remote Start event

- Vehicle Security Alarm not active
- “Malfunction Indicator/Check Engine” telltale is not illuminated
- “Water In Fuel” telltale is not illuminated
- “Wait To Start” telltale is not illuminated

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 key fobs away from children. Operation of the Remote Start System, windows, door locks or other controls could cause serious injury or death.
INSTRUMENT CLUSTER

Diesel Base Instrument Cluster
1. Tachometer
   - Indicates the engine speed in revolutions per minute (RPM x 1000).

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 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.

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 an authorized dealer for service if your vehicle overheats.

CAUTION!
Driving with a hot engine cooling system could damage your vehicle. If the temperature gauge reads “H” pull over and stop the vehicle. Idle the vehicle with the air conditioner turned off until the pointer drops back into the normal range. If the pointer remains on the “H”, turn the engine off immediately and call an authorized dealer for service.

3. Instrument Cluster Display
- The instrument cluster display features a driver-interactive display. Refer to “Instrument Cluster Display” in this chapter for further information.

4. Fuel Gauge
- The pointer shows the level of fuel in the fuel tank when the ignition switch is in the ON/RUN position.
- The fuel pump symbol points to the side of the vehicle where the fuel filler door is located.

5. Speedometer
- Indicates vehicle speed.

Premium Instrument Cluster Descriptions

1. Tachometer
   - Indicates the engine speed in revolutions per minute (RPM x 1000).

CAUTION!
Do not operate the engine with the tachometer pointer in the red area. Engine damage will occur.

2. Instrument Cluster Display
- The instrument cluster display features a driver-interactive display. Refer to “Instrument Cluster Display” in this chapter for further information.

3. Speedometer
- Indicates vehicle speed.

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GETTING TO KNOW YOUR INSTRUMENT PANEL

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INSTRUMENT CLUSTER DISPLAY
Your vehicle is equipped with an instrument cluster display, which offers useful information to the driver. With the ignition in the OFF position, opening/closing of a door will activate the display for viewing, and display the total miles or kilometers in the odometer.

Diesel Displays
When the appropriate conditions exist, the following messages display in the instrument cluster display:
- Exhaust Filter Nearing Full Safely Drive at Highway Speeds to Clear
- Exhaust Filter Full – Power Reduced See Dealer
- Exhaust System Service Required See Dealer
- Exhaust System – Filter XX% Full Service Required See Dealer
- Exhaust System Regeneration in Process Continue Driving
- Exhaust System – Regeneration Completed
- Engine Will Not Restart in XXXX mi DEF Low Refill Soon
- Engine Will Not Restart in XXXX mi Refill DEF
- Engine Will Not Start Refill DEF
- Service DEF System See Dealer
- Incorrect DEF Detected See Dealer
- Engine Will Not Restart in XXX mi Service DEF See Dealer
- Engine Will Not Restart Service DEF System See Dealer
- Engine Will Not Start Service DEF System See Dealer
Fuel Filter Life Reset

The cluster will display the “Fuel System Service Required – See Dealer” or “Service Fuel Filter” message when the fuel filter maintenance life is less than 5%. To verify if this is a fuel filter change event, go to the “Fuel Filter Life” screen in the “Vehicle Info” menu. When this message appears, dealers should replace the fuel filters.

NOTE:
Use the steering wheel display controls for the following procedure(s):

1. Without pushing the brake pedal, cycle the ignition to the ON/RUN position (do not start the engine.)
2. Push and release the down arrow button to scroll downward through the main menu to “Vehicle Info.”
3. Push and release the right arrow button to access the “Fuel Filter Life” screen.
4. Push and hold the OK button for one second to access the “Fuel Filter Life Reset” screen.
5. Push and release the down arrow button to select “Yes,” then push and release the OK button to select reset of the Fuel Filter Life.
6. Push and release the up arrow button to exit the instrument cluster display screen.

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

Diesel Particulate Filter (DPF) Messages — If Equipped

This engine meets all required diesel engine emissions standards. To achieve these emissions standards, your vehicle is equipped with a state-of-the-art engine and exhaust system. These systems are seamlessly integrated into your vehicle and managed by the Powertrain Control Module (PCM). The PCM manages engine combustion to allow the exhaust system’s catalyst to trap and burn Particulate Matter (PM) pollutants, with no input or interaction on your part.

Your vehicle has the ability to alert you to additional maintenance required on your vehicle or engine. Refer to the following messages that may be displayed on your instrument cluster display:

- **Exhaust Filter Nearing Full Safely Drive at Highway Speeds to Clear** — This message will be displayed if the exhaust particulate filter reaches 80% of its maximum storage capacity. Under conditions of exclusive short duration and low speed driving cycles, your diesel engine and exhaust after-treatment system may never reach the conditions required to cleanse the filter to remove the trapped PM. If this occurs, the “Exhaust Filter XX% Full Safely Drive at Highway Speeds to Remedy” message will be displayed. If this message is displayed, you will hear one
chime to assist in alerting you of this condition. By simply driving your vehicle at highway speeds for up to 20 minutes, you can remedy the condition in the particulate filter system and allow your diesel engine and exhaust after-treatment system to cleanse the filter to remove the trapped PM and restore the system to normal operating condition.

- Exhaust System Regeneration in Process Continue Driving — This message indicates that the Diesel Particulate Filter (DPF) is self-cleaning. Maintain your current driving condition until regeneration is completed.

- Exhaust System — Regeneration Completed — This message indicates that the Diesel Particulate Filter (DPF) self-cleaning is completed. If this message is displayed, you will hear one chime to assist in alerting you of this condition.

- Exhaust System Service Required — See Dealer — This message indicates regenera
tion has been disabled due to a system malfunction. At this point the engine Power
train Control Module (PCM) will register a fault code, the instrument panel will display a MIL light.

### CAUTION!

See an authorized dealer, as damage to the exhaust system could occur soon with continued operation.

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### Diesel Exhaust Fluid (DEF) Warning Messages

Your vehicle will begin displaying warning messages when the DEF level reaches a driving range of approximately 500 miles (805 kilometers). If the following warning message sequence is ignored, your vehicle may not restart unless DEF is added within the displayed mileage shown in the message.

- Engine Will Not Restart in XXXX mi DEF Low Refill Soon — This message will display when DEF driving range is less than 500 miles (805 kilometers). DEF fluid top off is required with in the displayed mileage. The message will be displayed during vehicle start up with the current allowed mileage and accompanied by a single chime. The remaining mileage can be pulled up anytime by way of the “Messages” list within the display.

**NOTE:**

Failing to follow the oil change indicator, changing your oil and resetting the oil change indicator by 0 miles (0 kilometers) remaining will prevent the diesel exhaust filter from performing its cleaning routine. This will shortly result in a Malfunction Indicator Light (MIL) and reduced engine power. Only an authorized dealer will be able to correct this condition.
• **Engine Will Not Restart in XXX mi Refill DEF** — This message will display when DEF driving range is less than 311 miles (500 kilometers). It is also displayed at 249 miles (400 kilometers), 186 miles (300 kilometers), and 124 miles (200 kilometers). Continuous Display starts at 124 miles (200 kilometers). DEF fluid top off is required with in the displayed mileage. The message will be displayed during vehicle start up with an updated distance mileage, and it will be accompanied by a single chime. Starting at 100 miles (160 kilometers), remaining range will be continuously displayed while operating the vehicle. Chimes will also accompany the 75, 50 and 25 miles (120, 80, and 40 kilometers) remaining distances. The DEF Low telltale will be on continuously until DEF fluid is topped off.

• **Engine Will Not Restart Refill DEF** — This message will display when the DEF driving range is less than 1 mile (1.6 kilometers). DEF fluid top off is required or the engine will not restart. The message will be displayed during vehicle start up, and it will be accompanied by a single chime. The DEF Low telltale will be illuminated continuously until DEF fluid tank is filled with a minimum of two gallons of DEF.

### Diesel Exhaust Fluid (DEF) Fault Warning Messages

There are different messages which are displayed if the vehicle detects that the DEF system has been filled with a fluid other than DEF, has experienced component failures, or when tampering has been detected.

When the DEF system needs to be serviced the following warnings will display:

• **Service DEF System See Dealer** — This message will display when the fault is initially detected and each time the vehicle is started. The message will be accompanied by a single chime and the Malfunction Indicator Light. See an authorized dealer to have the vehicle serviced immediately. If not corrected in 30 miles (48 kilometers), vehicle will enter the “Engine Will Not Restart in XXX mi Service DEF See Dealer” warning stage and message.

• **Incorrect DEF Detected See Dealer** — This message will display if the DEF system has detected the incorrect fluid has been introduced to the DEF tank. The message will be accompanied by a single chime. See an authorized dealer to have the vehicle serviced immediately. If not corrected in 30 miles (48 kilometers), vehicle will enter the “Engine Will Not Restart in XXX mi Service DEF See Dealer” warning stage and message.

• **Engine Will Not Restart in XXX mi Service DEF See Dealer** — This message is first displayed if the fault detected is not serviced after 30 miles (48 kilometers) of operation. It is also displayed at 250 miles (402 kilometers) 186 miles (300 kilometers) and 124 miles (200 kilometers). System service is required within the displayed mileage. The message will appear in the display during vehicle start up with an updated distance mileage, and it will be accompanied by a single chime. Starting at 124 miles (200 kilometers), remaining range will be continuously displayed while operating the vehicle. Chimes will also accompany the 75, 50 and 25 miles (120, 80, and 40 kilometers) remaining distances. See an authorized dealer to have the vehicle serviced immediately.

• **Engine Will Not Restart Service DEF System See Dealer** — This message will display if DEF system issue detected is not serviced during the allowed period. Your engine will not restart unless your vehicle is serviced by an authorized dealer. This message will be
displayed when under 1 mile (1.6 kilometers) until engine will not start and each time the vehicle is started, and will be continuously displayed. The message will be accompanied by a single chime. Your Malfunction Indicator Light will be continuously illuminated. See an authorized dealer if the message appears while engine is running.

- **Engine Will Not Start Service DEF System See Dealer** — This message will display when the fault detected is not serviced after the “Engine Will Not Restart Service DEF System See Dealer” message is displayed on the next subsequent restart. Your engine will not start unless your vehicle is serviced by an authorized dealer. The message will be accompanied by a single chime. Your Malfunction Indicator Light will be continuously illuminated. If the message appears and you can not start the engine, see an authorized dealer to have the vehicle serviced immediately.

**NOTE:**
- The gauge may take up to five seconds to update after adding a gallon or more of Diesel Exhaust Fluid (DEF) to the DEF tank. If you have a fault related to the DEF system, the gauge may not update to the new level. See an authorized dealer for service.
- The DEF gauge may also not immediately update after a refill if the temperature of the DEF fluid is below 12 °F (-11 °C). The DEF line heater will possibly warm up the DEF fluid and allow the gauge to update after a period of run time. Under very cold conditions, it is possible that the gauge may not reflect the new fill level for several drives.

**WARNING LIGHTS AND MESSAGES**

The warning/indicator lights will illuminate in the instrument cluster together with a dedicated message and/or acoustic signal when applicable. These indications are indicative and precautionary and as such must not be considered as exhaustive. Always refer to the information in this chapter in the event of a failure indication. All active telltales will display first if applicable. The system check menu may appear different based upon equipment options and current vehicle status. Some telltales are optional and may not appear.
Yellow Indicator Lights

Low Diesel Exhaust Fluid (DEF) Indicator Light — If Equipped

The Low Diesel Exhaust Fluid (DEF) Indicator will illuminate if the vehicle is low on Diesel Exhaust Fluid (DEF). Refer to “Diesel Exhaust Fluid” in “Starting and Operating” for further information.

Wait To Start Light — If Equipped

This indicator light will illuminate for approximately two seconds when the ignition is turned to the ON/RUN position. Its duration may be longer based on colder operating conditions. Vehicle will not initiate start until telltale is no longer displayed. Refer to “Starting The Engine” in “Starting And Operating” for further information.

NOTE:
The “Wait To Start” telltale may not illuminate if the intake manifold temperature is warm enough.

Water In Fuel Indicator Light — If Equipped

The “Water In Fuel Indicator Light” will illuminate when there is water detected in the fuel filter. If this light remains on, DO NOT start the vehicle before you drain the water from the fuel filter to prevent engine damage. Refer to the “Draining Fuel/Water Separator Filter” section in “Dealer Service” in “Servicing And Maintenance” for further information.
STARTING AND OPERATING

STARTING THE ENGINE — 3.0L DIESEL ENGINE

Before starting your vehicle, adjust your seat, both inside and outside mirrors, and fasten your seat belts.

The starter is allowed to crank for up to 30-second intervals. Waiting a few minutes between such intervals will protect the starter from overheating.

NOTE:
Engine start up in very low ambient temperature could result in evident white smoke. This condition will disappear as the engine warms up.

WARNING!

 Before exiting a vehicle, always come to a complete stop, then shift the automatic transmission into PARK and apply the parking brake.

 Always make sure the wireless ignition node is in the OFF mode, key fob is removed from the vehicle and vehicle is locked.

WARNING! (Continued)

 Never leave children alone in a vehicle, or with access to an unlocked vehicle. Leaving children in a vehicle unattended is dangerous for a number of reasons. A child or others could be seriously or fatally injured. Children should be warned not to touch the parking brake, brake pedal or the gear selector.

 Do not leave the key fob in or near the vehicle, or in a location accessible to children, and do not leave the ignition of a vehicle equipped with Keyless Enter-N-Go in the ACC or ON/RUN mode. 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.

NOTE:
Engine start up in very low ambient temperature could result in evident white smoke. This condition will disappear as the engine warms up.

CAUTION!

 The engine is allowed to crank as long as 30 seconds. If the engine fails to start during this period, please wait at least two minutes for the starter to cool before repeating start procedure.

 If the “Water in Fuel Indicator Light” remains on, DO NOT START engine before you drain the water from the fuel filters to avoid engine damage. Refer to “Draining Fuel/Water Separator Filter” in “Servicing And Maintenance” for further information.
Automatic Transmission
Start the engine with the transmission gear selector in the PARK (P) position. Apply the brake before shifting to any driving range.

Extreme Cold Weather
The engine block heater is a resistance heater installed in the water jacket of the engine. It requires a 110–115 Volt AC electrical outlet with a grounded, three-wire extension cord. Its use is recommended for environments that routinely fall below -10°F (-23°C). It should be used when the vehicle has not been running overnight or longer periods and should be plugged in two hours prior to start. Its use is required for cold starts with temperatures under -20°F (-28°C).

NOTE:
The engine block heater cord is a factory installed option. If your vehicle is not equipped, heater cords are available from an authorized Mopar dealer.

- A Diesel Pre-Heat system both improves engine starting and reduces the amount of white smoke generated by a warming engine.

Normal Starting
Observe the instrument cluster lights when starting the engine.

NOTE:
Normal starting of either a cold or a warm engine is obtained without pumping or pressing the accelerator pedal.
1. Always apply the parking brake.
2. Press and hold the brake pedal while pushing the ENGINE START/STOP button once.

NOTE:
A delay of the start of up to five seconds is possible under very cold conditions. The “Wait to Start” telltale will be illuminated during the pre-heat process. When the engine “Wait To Start” telltale goes off the engine will automatically crank.

3. The system will automatically engage the starter to crank the engine. If the vehicle fails to start, the starter will disengage automatically after 25 seconds.
4. If you wish to stop the cranking of the engine prior to the engine starting, push the ENGINE START/STOP button again.
5. Check that the Oil Pressure Warning Light has turned off.
6. Release the parking brake.
NOTE:
Only press one pedal at a time while driving the vehicle. Torque performance of the vehicle could be reduced if both pedals are pressed at the same time. If pressure is detected on both pedals simultaneously, a warning message will display in the instrument cluster. Refer to “Instrument Cluster Display” in “Getting To Know Your Instrument Panel” for further information.

Starting Fluids
The engine is equipped with a glow plug preheating system. If the instructions in this manual are followed, the engine should start in all conditions and no type of starting fluid should be used.

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

ENGINE BLOCK HEATER — IF EQUIPPED
The engine block heater warms engine coolant and permits quicker starts in cold weather. Connect the heater cord to a ground-fault interrupter protected 110–115 Volt AC electrical outlet with a grounded, three-wire extension cord.

Its use is recommended for environments that routinely fall below -10°F (-23°C). It should be used when the vehicle has not been running for long periods of time and should be plugged in two hours prior to start. Its use is required for cold starts with temperatures under -20°F (-28°C).

To ensure reliable starting at these temperatures, use of an externally powered electric engine block heater (available from an authorized dealer) is recommended.

WARNING!
Remember to disconnect the cord before driving. Damage to the 110–115 Volt electrical cord could cause electrocution.

NOTE:
The block heater will require 110 Volts AC and 6.5 Amps to activate the heater element.
ENGINE BREAK-IN RECOMMENDATIONS — 3.0L DIESEL

The diesel engine does not require a break-in period due to its construction. Normal operation is allowed, providing the following recommendations are followed:

- Warm up the engine before placing it under load.
- Do not operate the engine at idle for prolonged periods.
- Use the appropriate transmission gear to prevent engine lugging.
- Observe vehicle oil pressure and temperature indicators.
- Check the coolant and oil levels frequently.
- Vary throttle position at highway speeds when carrying or towing significant weight.

NOTE:
Light duty operation such as light trailer towing or no load operation will extend the time before the engine is at full efficiency. Reduced fuel economy and power may be seen at this time.

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. The recommended viscosity and quality grades are shown under “Fluids And Lubricants” in “Technical Specifications” in this manual. NON-DETERGENT OR STRAIGHT MINERAL OILS MUST NEVER BE USED.

NORMAL OPERATION — 3.0L DIESEL ENGINE

Observe the following when the diesel engine is operating:

- All message center lights are off.
- Malfunction Indicator Light (MIL) is off.
- Engine Oil Pressure telltale is not illuminated.
- Voltmeter operation.

The voltmeter may show a gauge fluctuation at various engine temperatures. This is caused by the glow plug heating system. The number of cycles and the length of the cycling operation is controlled by the engine control module. Glow plug heater operation can run for several minutes, once the heater operation is complete the voltmeter needle will stabilize.
Cold Weather Precautions

Operation in ambient temperature below 32°F (0°C) may require special considerations. The following charts suggest these options:

Fuel Operating Range

NOTE:
Use “Ultra Low Sulfur Diesel Fuels (ULSD)” ONLY.

*No. 1 ULSD Fuel should only be used where extended arctic conditions 0°F (-18°C) exist*. 
NOTE:

- Use of Climatized ULSD Fuel or Number 1 ULSD fuel results in a noticeable decrease in fuel economy.
- Climatized ULSD fuel is a blend of Number 2 ULSD fuel and Number 1 ULSD fuel which reduces the temperature at which wax crystals form in fuel.
- The fuel grade should be clearly marked on the pump at the fuel station.
- The engine requires the use of “Ultra Low Sulfur Diesel Fuel”. Use of incorrect fuel could result in engine and exhaust system damage. Refer to “Fuel Requirements” in “Technical Specifications” for further information.

- If climatized or Number 1 ULSD fuel is not available, and you are operating below 20°F (-6°C), in sustained arctic conditions, Mopar Premium Diesel Fuel Treatment (or equivalent) is recommended to avoid gelling (see Fuel Operating Range Chart).

Engine Oil Usage
Refer to “Dealer Service” in “Servicing And Maintenance” for the correct engine oil viscosity.

Engine Warm-Up
Avoid full throttle operation when the engine is cold. When starting a cold engine, bring the engine up to operating speed slowly to allow the oil pressure to stabilize as the engine warms up. If temperatures are below 32°F (0°C), operate the engine at moderate speeds for five minutes before full loads are applied.

Engine Idling
Avoid prolonged idling, long periods of idling may be harmful to your engine because combustion chamber temperatures can drop so low that the fuel may not burn completely. Incomplete combustion allows carbon and varnish to form on piston rings, cylinder head valves, and injector nozzles. Also, the unburned fuel can enter the crankcase, diluting the oil and causing rapid wear to the engine.
20 STARTING AND OPERATING

Stopping The Engine

After full load operation, idle the engine for a few minutes before shutting it down. This idle period will allow the lubricating oil and coolant to carry excess heat away from the turbocharger.

**NOTE:**
Refer to the following chart for proper engine shutdown.

<table>
<thead>
<tr>
<th>Driving Condition</th>
<th>Load</th>
<th>Turbocharger Temperature</th>
<th>Idle Time (min.) Before Engine Shutdown</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stop and Go</td>
<td>Empty</td>
<td>Cool</td>
<td>None</td>
</tr>
<tr>
<td>Stop and Go</td>
<td>Medium</td>
<td>Warm</td>
<td>0.5</td>
</tr>
<tr>
<td>Highway Speeds</td>
<td>Medium</td>
<td>Warm</td>
<td>1.0</td>
</tr>
<tr>
<td>City Traffic</td>
<td>Maximum GCWR</td>
<td></td>
<td>1.5</td>
</tr>
<tr>
<td>Highway Speeds</td>
<td>Maximum GCWR</td>
<td></td>
<td>2.0</td>
</tr>
<tr>
<td>Uphill Grade</td>
<td>Maximum GCWR</td>
<td></td>
<td>2.5</td>
</tr>
</tbody>
</table>

**NOTE:**
Under certain conditions the engine fan will run after the engine is turned off. These conditions are under high load and high temperature conditions.
Cooling System Tips — Automatic Transmission

To reduce the potential for engine and transmission overheating in high ambient temperature conditions, take the following actions:

- City Driving — When stopped, shift the transmission into NEUTRAL (N) and increase engine idle speed.
- Highway Driving — Reduce your speed.
- Up Steep Hills — Select a lower transmission gear.
- Air Conditioning — Turn it off temporarily.

**NOTE:**
If the coolant temperature is too high the A/C will automatically turn off.

Do Not Operate The Engine With Low Oil Pressure

If the low oil pressure warning light turns on while driving, stop the vehicle and shut down the engine as soon as possible. A chime will sound when the light turns on.

**NOTE:**
Do not operate the vehicle until the cause is corrected. This light does not show how much oil is in the engine. The engine oil level must be checked under the hood.

**CAUTION!**
If oil pressure falls to less than normal readings, shut the engine off immediately. Failure to do so could result in immediate and severe engine damage.

Do Not Operate The Engine With Failed Parts

All engine failures give some warning before the parts fail. Be on the alert for changes in performance, sounds, and visual evidence that the engine requires service. Some important clues are:

- Engine misfiring or vibrating severely
- Sudden loss of power
- Unusual engine noises
- Fuel, oil or coolant leaks
- Sudden change, outside the normal operating range, in the engine operating temperature
- Excessive smoke
- Oil pressure drop

CAUTION!
If oil pressure falls to less than normal readings, shut the engine off immediately. Failure to do so could result in immediate and severe engine damage.
REFUELING THE VEHICLE — DIESEL ENGINE

The fuel filler cap is located on the driver's side of the vehicle. If the fuel filler cap is lost or damaged, be sure the replacement cap is the correct one for this vehicle.

Fuel and Diesel Exhaust Fluid (DEF) Fill Location

1 — Diesel Fuel Filler
2 — DEF Filler

NOTE:
- When the fuel nozzle “clicks” or shuts off, the fuel tank is full.
- Tighten the fuel filler cap about a quarter turn until you hear one click. This is an indication that the cap is properly tightened.
- If the fuel filler cap is not tightened properly, the MIL will come on. Be sure the cap is tightened every time the vehicle is refueled.

Avoid Using Contaminated Fuel

Fuel that is contaminated by water or dirt can cause severe damage to the engine fuel system. Proper maintenance of the engine fuel filter and fuel tank is essential. Refer to “Dealer Service” in “Servicing And Maintenance” for further information.

Bulk Fuel Storage — Diesel Fuel

If you store quantities of fuel, good maintenance of the stored fuel is also essential. Fuel contaminated with water will promote the growth of “microbes.” These microbes form “slime” that will clog the fuel filtration system and lines. Drain condensation from the supply tank and change the line filter on a regular basis.

NOTE:
When a diesel engine is allowed to run out of fuel, air is pulled into the fuel system.

If the vehicle will not start, refer to “Priming If The Engine Has Run Out Of Fuel” in “Servicing And Maintenance” for further information.
Diesel Exhaust Fluid

Your vehicle is equipped with a Selective Catalytic Reduction (SCR) system to meet the very stringent diesel emissions standards required by the Environmental Protection Agency. The purpose of the SCR system is to reduce levels of NOx (oxides of nitrogen emitted from engines) that are harmful to our health and the environment to a near-zero level. A small quantity of Diesel Exhaust Fluid (DEF) is injected into the exhaust upstream of a catalyst where, when vaporized, it converts smog-forming nitrogen oxides (NOx) into harmless nitrogen (N2) and water vapor (H2O), two natural components of the air we breathe. You can operate with the comfort that your vehicle is contributing to a cleaner, healthier world environment for this and generations to come.

System Overview

This vehicle is equipped with a Diesel Exhaust Fluid (DEF) injection system and a Selective Catalytic Reduction (SCR) catalyst to meet the emission requirements. The DEF injection system consists of the following components:
- DEF tank
- DEF pump
- DEF injector
- Electronically-heated DEF Lines
- NOx sensors
- Temperature sensors
- SCR catalyst

The DEF injection system and SCR catalyst enable the achievement of diesel emissions requirements; while maintaining outstanding fuel economy, drivability, torque and power ratings.

Refer to “Instrument Cluster Display” in “Getting To Know Your Instrument Panel” for system messages and warnings.

NOTE:
- Your vehicle is equipped with a DEF injection system. You may occasionally hear an audible clicking noise from under the vehicle at a stop. This is normal operation.
- The DEF pump will run for a period of time after engine shutdown to purge the DEF system. This is normal operation and may be audible from the rear of the vehicle.

Diesel Exhaust Fluid Storage

Diesel Exhaust Fluid (DEF) is considered a very stable product with a long shelf life. If DEF is kept in temperatures between 10° and 90°F (-12° and 32°C), it will last a minimum of one year.

DEF is subject to freezing at the lowest temperatures. For example, DEF may freeze at temperatures at or below 12°F (-11°C). The system has been designed to operate in this environment.

WARNING!

Do not open the high pressure fuel system with the engine running. Engine operation causes high fuel pressure. High pressure fuel spray can cause serious injury or death.
NOTE: When working with DEF, it is important to know that:

- Any containers or parts that come into contact with DEF must be DEF compatible (plastic or stainless steel). Copper, brass, aluminum, iron or non-stainless steel should be avoided as they are subject to corrosion by DEF.

- If DEF is spilled, it should be wiped up completely.

Adding Diesel Exhaust Fluid

The DEF gauge (located on the instrument cluster display) will display the level of DEF remaining in the tank. Refer to “Instrument Cluster Display” in “Getting To Know Your Instrument Panel” for further information.

NOTE:
Driving conditions (altitude, vehicle speed, load, etc.) will affect the amount of DEF that is used in your vehicle.

DEF Fill Procedure

NOTE:
Refer to “Fluids And Lubricants” in the “Technical Specifications” section for the correct fluid type.

1. Remove cap from DEF fill inlet (located in fuel door).

2. Insert DEF fill adapter/nozzle into DEF fill inlet.

NOTE:

- The DEF gauge may take up to five seconds to update after adding a gallon or more of Diesel Exhaust Fluid (DEF) to the DEF tank. If you have a fault related to the DEF system, the gauge may not update to the new level. See an authorized dealer for service.

- The DEF gauge may also not immediately update after a refill if the temperature of the DEF fluid is below 12°F (-11°C). The DEF line heater will possibly warm up the DEF fluid and allow the gauge to update after a period of run time. Under very cold conditions, it is possible that the gauge may not reflect the new fill level for several drives.

Fuel and Diesel Exhaust Fluid Fill Location

1 – Diesel Fuel Filler
2 – Diesel Exhaust Fluid Filler
3. Stop filling the DEF tank immediately when any of the following happen: DEF stops flowing from the fill bottle into the DEF fill inlet, DEF splashes out the fill inlet, or a DEF pump nozzle automatically shuts off.

4. Reinstall cap onto DEF fill inlet.

---

**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 the New Vehicle Limited 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 Gross Vehicle Weight Rating (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” in the Owner’s Manual for further information.
Gross Trailer Weight (GTW)
The Gross Trailer Weight (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.

WARNING!
If the gross trailer weight is 5,000 lbs (2,267 kg) or more, it is recommended to use a weight-distributing hitch to ensure stable handling of your vehicle. If you use a standard weight-carrying hitch, you could lose control of your vehicle and cause a collision.

Gross Axle Weight Rating (GAWR)
The Gross Axle Weight Rating (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” in the Owner’s Manual 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.

Tongue Weight (TW)
The tongue weight (TW) is the downward force exerted on the hitch ball by the trailer. You must consider this as part of the load on your vehicle.

Trailer Frontal Area
The frontal area is the maximum height multiplied by the maximum width of the front of a trailer.
Trailer Sway Control
The Trailer Sway Control (TSC) can be a mechanical telescoping link that can be installed between the hitch receiver and the trailer tongue that typically provides adjustable friction associated with the telescoping motion to dampen any unwanted trailer swaying motions while traveling.
If equipped, the electronic TSC recognizes a swaying trailer and automatically applies individual wheel brakes and/or reduces engine power to attempt to eliminate the trailer sway.

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 kinds 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 system 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 manufacturer’s 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 (TW) 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 system may reduce handling, stability, 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.
## Trailer Hitch Classification

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.

<table>
<thead>
<tr>
<th>Class</th>
<th>Max. Trailer Hitch Industry Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class I - Light Duty</td>
<td>2,000 lbs (907 kg)</td>
</tr>
<tr>
<td>Class II - Medium Duty</td>
<td>3,500 lbs (1,587 kg)</td>
</tr>
<tr>
<td>Class III - Heavy Duty</td>
<td>5,000 lbs (2,267 kg)</td>
</tr>
<tr>
<td>Class IV - Extra Heavy Duty</td>
<td>10,000 lbs (4,535 kg)</td>
</tr>
</tbody>
</table>

Refer to the “Trailer Towing Weights (Maximum Trailer Weight Ratings)” chart 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) — Diesel

The following chart provides the maximum trailer weight ratings towable for your given drivetrain:

<table>
<thead>
<tr>
<th>Engine/ Transmission</th>
<th>Model</th>
<th>GCWR (Gross Combined Wt. Rating)</th>
<th>Frontal Area</th>
<th>Max. GTW (Gross Trailer Wt.)</th>
<th>Max. Trailer Tongue Wt. (See Note)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.0L</td>
<td>Four-Door</td>
<td>8,427 lbs (3,822 kg)</td>
<td>30 ft² (2.79 m²)</td>
<td>3,500 lbs (1,587 kg)</td>
<td>350 lbs (158 kg)</td>
</tr>
</tbody>
</table>

Refer to local laws for maximum trailer towing speeds.

### NOTE:

The trailer tongue weight must be considered as part of the combined weight of occupants and cargo (i.e., the GVWR), and the GVWR should never exceed the weight referenced on the Tire and Loading Information placard. Refer to “Tire Safety Information” in the Owner’s Manual for further information.
Trailer And Tongue Weight

Never exceed the maximum tongue weight stamped on your bumper or trailer hitch.

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 the “Tire And Loading Information” placard for the maximum combined weight of occupants and cargo for your vehicle.

Towing Requirements

To promote proper break-in of your new vehicle drivetrain components, the following guidelines are recommended.

CAUTION!
Always load a trailer with 60% of the weight in the front of the trailer. This places 10% of the 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 the vehicle and trailer. Failure to load trailers heavier in front is the cause of many trailer collisions.

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.

CAUTION (Continued)
- 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 “Scheduled Servicing”. Refer to “Scheduled Servicing” in “Servicing And Maintenance” for the proper maintenance intervals. When towing a trailer, never exceed the GAWR or GCWR ratings.

WARNING!
- 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.
Towing Requirements — Tires
- Do not attempt to tow a trailer while using a compact spare tire.
- Do not drive more than 50 mph (80 km/h) when towing while using a full size spare tire.
- Proper tire inflation pressures are essential to the safe and satisfactory operation of your vehicle. Refer to “Tires” in the Owner’s Manual for proper tire inflation procedures.
- 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. Refer to “Tires” in the Owner’s Manual for the proper inspection procedure.
- When replacing tires, refer to “Tires” in the Owner’s Manual for the proper tire replacement procedures. 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 (453 kg) and required for trailers in excess of 2,000 lbs (907 kg).

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 an accident.
- 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 an accident.

WARNING! (Continued)
- Safety chains must always be used between your vehicle and trailer. Always connect the chains to the 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 transmission in PARK (P). For four-wheel drive vehicles, make sure the transfer case is not in NEUTRAL (N). Always, block or “chock” the trailer wheels.
- GCWR must not be exceeded.
- Total weight must be distributed between the tow vehicle and the trailer such that the following four ratings are not exceeded:
  - GVWR
  - GTW
  - GAWR
  - Tongue weight rating for the trailer hitch utilized.
Whenever you pull a trailer, regardless of the trailer size, stoplights 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.

**CAUTION!**
If the trailer weighs more than 1,000 lbs (453 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.

**Towing Requirements — Trailer Lights And Wiring**
Whenever you pull a trailer, regardless of the trailer size, stoplights 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:**
- Disconnect trailer wiring connector from the vehicle before launching a boat (or any other device plugged into vehicle’s electrical connect) into water.
- Be sure to reconnect once clear from water area.

---

**Four-Pin Connector**

1. Female Pins
2. Male Pin
3. Ground
4. Park
5. Left Stop/Turn
6. Right Stop/Turn

**Seven-Pin Connector**

1. Battery
2. Backup Lamps
3. Right Stop/Turn
4. Electric Brakes
5. Ground
6. Left Stop/Turn
7. Running Lamps
Towing Tips
Before setting out on a trip, practice turning, stopping, and backing up the trailer in an area located away from heavy traffic.

Automatic Transmission
Select the DRIVE (D) range when towing. The transmission controls include a drive strategy to avoid frequent shifting when towing. For increased engine braking on steep downhill grades, select the LOW range.

Speed Control — If Equipped
- Do not use on 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 get back to 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
- In city traffic — while stopped, place the transmission in NEUTRAL, but do not increase engine idle speed.

Highway Driving
- Reduce speed.
- Temporarily turn off air conditioning.
SERVICING AND MAINTENANCE

SCHEDULED SERVICING — DIESEL ENGINE

Your vehicle is equipped with an automatic oil change indicator system. The oil change indicator system will remind you that it is time to take your vehicle in for scheduled maintenance. Based on engine operation conditions, the oil change indicator message will illuminate. This means that service is required for your vehicle. Operating conditions such as frequent short-trips, trailer tow, extremely hot or cold ambient temperatures will influence when the “Oil Change Required” message is displayed. Severe Operating Conditions will cause the change oil message to illuminate more frequently. Have your vehicle serviced as soon as possible, within the next 500 miles (805 km).

An 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 an authorized dealer, the message can be reset by referring to the steps described under “Instrument Cluster Display” in “Getting To Know Your Instrument Panel” for further information.

NOTE:
Under no circumstances should oil change intervals exceed 10,000 miles (16,000 km) or 12 months, whichever comes first.

Engine Oil Filter Replacement
Residual oil in the housing may spill from the housing when the new filter is installed if the residual oil is not either removed from the housing or enough time has not elapsed to allow the oil to drain back into the engine. When servicing the oil filter on this engine, carefully remove the filter and use a suction gun to remove any residual oil left in the housing or wait about 30 minutes for the oil to drain back into the engine.

Once A Month Or Before A Long Trip:
- Check engine oil level
- Check windshield washer fluid level
- Check the tire inflation pressures and look for unusual wear or damage
- Check the fluid levels of the coolant reservoir, brake master cylinder, and fill as needed
- Check function of all interior and exterior lights
Maintenance Plan — Diesel Fuel Up To B5 Biodiesel

Required Maintenance
Refer to the Maintenance Plans on the following pages for required maintenance.

<table>
<thead>
<tr>
<th>At Every Oil Change Interval As Indicated By Oil Change Indicator System:</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Change oil and filter.</td>
</tr>
<tr>
<td>• Completely fill the Diesel Exhaust Fluid tank.</td>
</tr>
<tr>
<td>• Drain water from fuel filter assembly.</td>
</tr>
<tr>
<td>• Rotate the tires. <strong>Rotate at the first sign of irregular wear, even if it occurs before the oil indicator system turns on.</strong></td>
</tr>
<tr>
<td>• Inspect battery and clean and tighten terminals as required.</td>
</tr>
<tr>
<td>• Inspect the CV/Universal joints.</td>
</tr>
<tr>
<td>• Inspect brake pads, shoes, rotors, drums, hoses and park brake.</td>
</tr>
<tr>
<td>• Inspect engine cooling system protection and hoses.</td>
</tr>
<tr>
<td>• Inspect exhaust system.</td>
</tr>
<tr>
<td>• Inspect engine air cleaner if using in dusty or off-road conditions.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>At Every Second Oil Change Interval As Indicated By Oil Change Indicator System:</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Change fuel filter.</td>
</tr>
</tbody>
</table>
### Mileage or time passed (whichever comes first)

<table>
<thead>
<tr>
<th>Mileage or time passed (whichever comes first)</th>
<th>10,000</th>
<th>20,000</th>
<th>30,000</th>
<th>40,000</th>
<th>50,000</th>
<th>60,000</th>
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<th>120,000</th>
<th>130,000</th>
<th>140,000</th>
<th>150,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Or Years:</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
</tr>
<tr>
<td>Or Kilometers:</td>
<td>16,000</td>
<td>32,000</td>
<td>48,000</td>
<td>64,000</td>
<td>80,000</td>
<td>96,000</td>
<td>112,000</td>
<td>128,000</td>
<td>144,000</td>
<td>160,000</td>
<td>176,000</td>
<td>192,000</td>
<td>208,000</td>
<td>224,000</td>
<td>240,000</td>
</tr>
</tbody>
</table>

### Additional Inspections

- Completely fill the Diesel Exhaust Fluid tank.  
- Inspect the CV/Universal joints.  
- Inspect front suspension, tie rod ends, and 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.  
- Inspect the brake linings, parking brake function.  
- Inspect transfer case fluid.

### Additional Maintenance

- Drain water from fuel filter assembly.  
- Replace fuel filters and drain water from the fuel filter assembly.  
- Replace engine air filter.

Fuel filter replacement intervals should be every second oil change and must not exceed 20,000 miles (32 000 km) if using diesel fuel up to B5.
36 SERVICING AND MAINTENANCE

<table>
<thead>
<tr>
<th>Mileage or time passed (whichever comes first)</th>
<th>10,000</th>
<th>20,000</th>
<th>30,000</th>
<th>40,000</th>
<th>50,000</th>
<th>60,000</th>
<th>70,000</th>
<th>80,000</th>
<th>90,000</th>
<th>100,000</th>
<th>110,000</th>
<th>120,000</th>
<th>130,000</th>
<th>140,000</th>
<th>150,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Or Years:</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
</tr>
<tr>
<td>Or Kilometers:</td>
<td>16,000</td>
<td>32,000</td>
<td>48,000</td>
<td>64,000</td>
<td>80,000</td>
<td>96,000</td>
<td>112,000</td>
<td>128,000</td>
<td>144,000</td>
<td>160,000</td>
<td>176,000</td>
<td>192,000</td>
<td>208,000</td>
<td>224,000</td>
<td>240,000</td>
</tr>
</tbody>
</table>

Replace the air conditioning filter. X X X X X X X
Flush and replace the engine coolant at 10 years or 150,000 miles (240,000 km) whichever comes first. X X
Replace accessory drive belt(s). X
Change transfer case fluid. X

**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.

**Additional Maintenance — B6 To B20 Biodiesel**

**NOTE:**
- Under no circumstances should oil change intervals exceed 8,000 miles (12,875 km) or 6 months, whichever comes first when using Biodiesel blends greater than 5% (B5).
- The owner is required to monitor mileage for B6-B20 biodiesel, the automatic oil change indicator system does not reflect the use of biofuels.
- Fuel filter change interval is maintained at every second oil change. This is especially important with biodiesel usage.
ENGINE COMPARTMENT

3.0L Diesel Engine

1 — Battery
2 — Engine Oil Fill
3 — Coolant Pressure Reservoir
4 — Brake Fluid Reservoir Cap
5 — Washer Fluid Reservoir Cap
6 — Air Cleaner Filter
7 — Engine Oil Dipstick
8 — Power Steering Reservoir Cap
9 — Power Distribution Center (Fuses)
Checking Oil Level — 3.0L Diesel Engine

To ensure proper lubrication of your vehicle’s engine, the engine oil must be maintained at the correct level. Check the oil level at regular intervals. The best time to check the oil level is before starting the engine after it has been parked overnight. When checking oil after operating the engine, first ensure the engine is at full operating temperature, then wait for five minutes after engine shutdown to check the oil.

**Oil Dipstick**

Checking the oil while the vehicle is on level ground will improve the accuracy of the oil level readings. Add oil only when the level on the dipstick is below the “MIN” mark. The total capacity from the MIN mark to the MAX mark is 1 qt (1 L).

| 1 — MAX Mark |
| 2 — MIN Mark |

**CAUTION!**

Overfilling or underfilling the crankcase will cause oil aeration or loss of oil pressure. This could damage your engine.

**NOTE:**

It is possible for the oil level to be slightly higher than a previous check. This would be due to diesel fuel that may temporarily be in the crankcase due to operation of the diesel particulate filter regeneration strategy. This fuel will evaporate out under normal operation.

Never operate the engine with oil level below the “MIN” mark or above the upper “MAX” mark.

**DEALER SERVICE**

An 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.

**Engine Oil**

**Change Engine Oil — Diesel Engine**

Refer to “Scheduled Servicing” in this chapter for the proper maintenance intervals.

**Diesel Engine Oil Selection**

For best performance and maximum protection under all types of operating conditions, the manufacturer recommends engine oils that meet the requirements of FCA Material Standard MS-12991, and that are API SN certified and meet the requirements of FCA LLC.
Engine Oil Viscosity (SAE Grade) — 3.0L Diesel Engine

**CAUTION!**
Your vehicle is equipped with an advanced technology Diesel Engine and an emission device designed to limit Diesel Particulate Emissions from being released into the atmosphere. The durability of your engine and life expectancy of this diesel particulate filter emission device is highly dependent on the use of the correct engine oil.

We recommend you use 5W-40 synthetic engine oil such as Mopar or Pennzoil Platinum Euro that meets FCA Material Standard MS-12991 and the API SN engine oil category is required.

**Materials Added To Engine Oil**
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 an 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**
This manufacturer's engines have a full-flow type disposable 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 ensure most efficient service. Mopar engine oil filters are high quality oil filters and are recommended.

**Engine Air Cleaner Filter**
Refer to “Maintenance Plan” in this chapter for the proper maintenance intervals.

**CAUTION!**
All air entering the engine intake must be filtered. The abrasive particles in unfiltered air will cause rapid wear to engine components.

**WARNING!**
The air induction system (air cleaner, hoses, etc.) provides a measure of protection. 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 ensure most efficient service. Mopar engine air cleaner filters are a high quality filter and are recommended.

Engine Air Cleaner Filter Inspection and Replacement
Follow the recommended maintenance intervals as shown in the Maintenance Schedule in this section.

Engine Air Cleaner Filter Removal
1. Loosen the retainers from the air cleaner cover using a suitable tool.
2. Lift the air cleaner cover to access the air cleaner filter.
3. Remove the air cleaner filter element from the housing assembly.

Engine Air Cleaner Filter Installation
NOTE:
Inspect and clean the housing if dirt or debris is present before replacing the air filter element.
1. Install the air cleaner filter element into the housing assembly with the air cleaner filter inspection surface facing downward.
2. Tighten air cleaner cover retainers using a suitable tool.

CAUTION!
Many aftermarket performance air filter elements do not adequately filter the air entering the engine. Use of such filters can severely damage your engine.
Draining Fuel/Water Separator Filter

The fuel/water separator housing is located inside the left frame rail in front of the fuel tank. The best access to this water drain valve is from under the vehicle.

If necessary remove the fuel filter protective cover to access the water drain valve.

If water is detected in the water separator while the engine is running, or while the ignition switch is in the ON position, the “Water In Fuel Indicator Light” will illuminate and an audible chime will be heard. At this point you should stop the engine and drain the water from the filter housing.

Within 10 minutes of vehicle shutdown, turn the filter drain valve (located on the bottom of the filter housing) counterclockwise to drain fuel/water; allow the accumulated water to drain. Leave the drain valve open until all water and contaminants have been removed. When clear fuel is visible, close the drain valve by turning it clockwise.

Upon proper draining of the water from fuel filter assembly, the “Water In Fuel Indicator Light” will remain illuminated for approximately 10 seconds. If the water was drained while the engine was running, the “Water In Fuel Indicator Light” may remain on for approximately three minutes.

NOTE: Care should be taken in disposing of used fluids from your vehicle. Used fluids, indiscriminately discarded, can present a problem to the environment. Contact an authorized dealer, service station, or government agency for advice on recycling programs and for where used fluids and filters can be properly disposed of in your area.

If more than two ounces or 60 ml of fuel have been drained, follow the directions for “Priming If The Engine Has Run Out Of Fuel.”
42 SERVICING AND MAINTENANCE

Underbody Mounted Fuel Filter Replacement

NOTE:
Using a fuel filter that does not meet the manufacturer's filtration and water separating requirements can severely impact fuel system life and reliability.

CAUTION!
- Diesel fuel will damage blacktop paving surfaces. Drain the filter into an appropriate container.
- Do not prefill the fuel filter when installing a new fuel filter. There is a possibility debris could be introduced into the fuel filter during this action. It is best to install the filter dry and allow the in-tank lift pump to prime the fuel system.

1. Ensure engine is turned off.
2. Remove the fuel filter protective cover to access the fuel filter assembly.
3. Place drain pan under the fuel filter assembly.
4. Open the water drain valve, and let any accumulated water and fuel drain.
5. Close the water drain valve.
6. Wipe clean the underside of the filter housing to prevent contamination from entering fuel system during service.
7. Remove the fuel filter cap and filter from the housing using a socket. Rotate counter-clockwise for removal.

8. Remove the used fuel filter cartridge from the cap and dispose of according to your local regulations.

9. Wipe clean the sealing surfaces of the cap and housing.

10. Lubricate o-ring on the cap with clean engine oil.

11. Install the new fuel filter cartridge onto the cap.

12. Insert the cap and filter into the housing with clockwise rotation, use a socket to tighten.

13. After engine start, verify the fuel filter cap does not leak.

**Priming If The Engine Has Run Out Of Fuel**

**WARNING!**
Do not open the high pressure fuel system with the engine running. Engine operation causes high fuel pressure. High pressure fuel spray can cause serious injury or death.

1. Add a substantial amount of fuel to the tank, approximately 2 to 5 gal (8L to 19L).

2. Press ignition switch twice without your foot on brake to put vehicle in RUN position. This will activate the in tank fuel pump for approximately 30 seconds. Repeat this process twice.

3. Start the engine using the “Normal Starting” procedure. Refer to “Starting The Engine” in “Starting and Operating” for further information.

**CAUTION!**
The starter motor will engage for approximately 30 seconds at a time. Allow two minutes between cranking intervals.

**NOTE:** The engine may run rough until the air is forced from all the fuel lines.

**WARNING!**
Do not use alcohol or gasoline as a fuel blending agent. They can be unstable under certain conditions and be hazardous or explosive when mixed with diesel fuel.

**CAUTION!**
Due to lack of lubricants in alcohol or gasoline, the use of these fuels can cause damage to the fuel system.
NOTE:

- Use of biodiesel mixture in excess of 20% can negatively impact the fuel filter’s ability to separate water from the fuel, resulting in high pressure fuel system corrosion or damage.
- In addition, commercially available fuel additives are not necessary for the proper operation of your diesel engine.
- For extreme cold conditions, “Mopar Premium Diesel Fuel Treatment” is recommended to assist with cold starting.

**Intervention Regeneration Strategy — Message Process Flow**

This engine meets all required diesel engine emissions standards. To achieve these emissions standards, your vehicle is equipped with a state-of-the-art engine and exhaust system. These systems are seamlessly integrated into your vehicle and managed by the Powertrain Control Module (PCM). The PCM manages engine combustion to allow the exhaust system's catalyst to trap and burn Particulate Matter (PM) pollutants, with no input or interaction on your part.

Additionally, your vehicle has the ability to alert you to additional maintenance required on your vehicle or engine. Refer to “Instrument Cluster Display” in “Getting To Know Your Instrument Panel” for further information.

**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 open a cooling system pressure cap when the radiator or coolant bottle is hot.
- Keep hands, tools, clothing, and jewelry away from the radiator cooling fan when the hood is raised. The fan starts automatically and may start at any time, whether the engine is running or not.
- When working near the radiator cooling fan, disconnect the fan motor lead or turn the ignition to the OFF mode. The fan is temperature controlled and can start at any time the ignition is in the ON mode.

**Diesel Exhaust Fluid**

Diesel Exhaust Fluid (DEF) sometimes known simply by the name of its active component, UREA—is a key component of Selective Catalytic Reduction (SCR) systems, which help diesel vehicles meet stringent emission regulations. DEF is a liquid reducing agent that reacts with engine exhaust in the presence of a catalyst to convert smog-forming nitrogen oxides (NOx) into harmless nitrogen and water vapor. Refer to “Fluids And Lubricants” in “Technical Specifications” for further information.
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, the system should be drained, flushed, and refilled with fresh OAT coolant (conforming to MS.90032) by an authorized dealer. Check the front of the A/C condenser 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.

Check the engine cooling system hoses for brittle rubber, cracking, tears, cuts, and tightness of the connection at the coolant recovery bottle and radiator. Inspect the entire system for leaks. DO NOT REMOVE THE COOLANT PRESSURE CAP WHEN THE COOLING SYSTEM IS HOT.

Cooling System — Drain, Flush And Refill

NOTE:
Some vehicles require special tools to add coolant properly. Failure to fill these systems properly could lead to severe internal engine damage. If any coolant is needed to be added to the system please contact an authorized dealer.

Adding Coolant
Your vehicle has been built with an improved engine coolant (OAT coolant conforming to MS.90032) that allows extended maintenance intervals. This engine coolant (antifreeze) can be used up to 10 years or 150,000 miles (240,000 km) before replacement. To prevent reducing this extended maintenance period, it is important that you use the same engine coolant as recommended in the maintenance plan. If the engine coolant (antifreeze) is dirty or contains visible sediment, have an authorized dealer clean and flush with OAT coolant (antifreeze) (conforming to MS.90032). Refer to the “Maintenance Plan” in this section for the proper maintenance intervals.

Selection Of Coolant
Refer to “Fluids And Lubricants” in “Technical Specifications” for further information.

NOTE:
- Mixing of engine coolant (antifreeze) other than specified Organic Additive Technology (OAT) engine coolant (antifreeze), may result in engine damage and may decrease corrosion protection. Organic Additive Technology (OAT) engine coolant is different and should not be mixed with Hybrid Organic Additive Technology (HOAT) engine coolant (antifreeze) or any “globally compatible” coolant (antifreeze). If a non-OAT engine coolant (antifreeze) is introduced into the cooling system in an emergency, the cooling system will need to be drained, flushed, and refilled with fresh OAT coolant (conforming to MS.90032), by an authorized dealer as soon as possible.
- Do not use 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 radiator engine coolant and may plug the radiator.
- 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.
- Some vehicles require special tools to add coolant properly. Failure to fill these systems properly could lead to severe internal engine damage. If any coolant is needed to be added to the system please contact an authorized dealer.
coolant (OAT coolant conforming to MS.90032) throughout the life of your vehicle. Please review these recommendations for using Organic Additive Technology (OAT) engine coolant (antifreeze) that meets the requirements of FCA Material Standard MS.90032.

When adding engine coolant (antifreeze):
- We recommend using Mopar Antifreeze/Coolant 10 Year/150,000 Mile (240,000 km) Formula OAT (Organic Additive Technology) that meets the requirements of FCA Material Standard MS.90032.
- Mix a minimum solution of 50% OAT engine coolant that meets the requirements of FCA Material Standard MS.90032 and distilled water. Use higher concentrations (not to exceed 70%) if temperatures below −34°F (−37°C) are anticipated. Please contact an authorized dealer for assistance.
- 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.

**NOTE:**
- 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.
- Some vehicles require special tools to add coolant properly. Failure to fill these systems properly could lead to severe internal engine damage. If any coolant is needed to be added to the system, please contact a local authorized dealer.
- Mixing engine coolant (antifreeze) types is not recommended and can result in cooling system damage. If HOAT and OAT coolant are mixed in an emergency, have a authorized dealer drain, flush, and refill with OAT coolant (conforming to MS.90032) as soon as possible.

**Cooling System Pressure Cap**
The cap must be fully tightened to prevent loss of engine coolant (antifreeze), and to ensure that engine coolant (antifreeze) will return to the radiator from the coolant expansion bottle/recovery tank if so equipped.

**WARNING!**
- Do not open hot engine cooling system. 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 Coolant**
Used ethylene glycol-based 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 coolant 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 bottle provides a quick visual method for determining that the coolant level is adequate. With the engine off and cold, the level of the engine coolant (antifreeze) in the 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/coolant pressure cap unless checking for engine coolant (antifreeze) freeze point or replacing coolant. Advise your service attendant of this. As long as the engine operating temperature is satisfactory, the coolant bottle need only be checked once a month.

When additional engine coolant (antifreeze) is needed to maintain the proper level, only OAT coolant that meets the requirements of FCA Material Standard MS.90032 should be added to the coolant 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 expansion bottle.
- Check the coolant freeze point in the radiator and in the coolant expansion bottle. If engine coolant (antifreeze) needs to be added, the contents of the coolant expansion bottle must also be protected against freezing.
- If frequent engine coolant (antifreeze) additions are required, the cooling system should be pressure tested for leaks.

- Maintain engine coolant (antifreeze) concentration at a minimum of 50% OAT coolant (conforming to MS.90032) and distilled water for proper corrosion protection of your engine which contains aluminum components.
- Make sure that the coolant expansion bottle overflow hoses are not kinked or obstructed.
- Keep the front of the radiator clean. If your vehicle is equipped with air conditioning, 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.

- Keep the front of the radiator clean. If your vehicle is equipped with air conditioning, keep the front of the condenser clean.
**FUEL REQUIREMENTS**

Federal law requires that you must fuel this vehicle with Ultra Low Sulfur Highway Diesel fuel (15 ppm Sulfur maximum) and prohibits the use of Low Sulfur Highway Diesel fuel (500 ppm Sulfur maximum) to avoid damage to the emissions control system.

Use good quality diesel fuel from a reputable supplier in your vehicle. For most year-round service, No. 2 diesel fuel meeting ASTM (formerly known as the American Society for Testing and Materials) specification D-975 Grade S15 will provide good performance. If the vehicle is exposed to extreme cold (below 20°F or -7°C), or is required to operate at colder-than-normal conditions for prolonged periods, use climatized No. 2 diesel fuel or dilute the No. 2 diesel fuel with 50% No. 1 diesel fuel. This will provide better protection from fuel gelling or wax-plugging of the fuel filters.

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**WARNING!**

Do not use alcohol or gasoline as a fuel blending agent. They can be unstable under certain conditions and hazardous or explosive when mixed with diesel fuel.

Diesel fuel is seldom completely free of water. To prevent fuel system trouble, drain the accumulated water from the fuel/water separator using the fuel/water separator drain provided on the fuel filter housing. If you buy good quality fuel and follow the cold weather advice above, fuel conditioners should not be required in your vehicle.

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**CAUTION!**

If the “Water in Fuel Indicator Light” remains on, DO NOT START engine before you drain the water from the fuel filter(s) to avoid engine damage. Refer to “Draining Fuel/Water Separator Filter” in “Servicing And Maintenance” for further information.

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**Diesel Fuel Specifications**

This diesel engine has been developed to take advantage of the high energy content and generally lower cost No. 2 Ultra Low Sulfur diesel fuel or No. 2 Ultra Low Sulfur climatized diesel fuels.

**NOTE:**

- If you accidentally fill the fuel tank with gasoline on your diesel vehicle, do not start the engine. Damage to the engine and fuel system could occur. Please call an authorized dealer for service.
- A maximum blend of 5% biodiesel meeting ASTM specification D-975 may be used with your diesel engine without any adjustments to regular service schedules.
- Commercially available fuel additives are not necessary for the proper operation of your diesel engine.
- No. 1 Ultra Low Sulfur diesel fuel should only be used where extended arctic conditions (-10°F or -23°C) exist.
Biodiesel Fuel Requirements

A maximum blend of 5% biodiesel meeting ASTM specification D975 is recommended for use with your diesel engine. If frequent operation with Biodiesel blends that are between 6% and 20% (B6–B20) is desired, the maintenance schedule is subject to shorter intervals. The oil and filter change along with fuel filter replacement is subject to shorter intervals when operating your engine on biodiesel greater than 5%. Do not use biodiesel greater than 20%.

For regular use of biodiesel blends between 6% and 20% (B6–B20) it is important that you understand and comply with these requirements. Refer to the “Maintenance Plan” in “Scheduled Servicing” for further direction.

CAUTION!
Failure to comply with Oil Change requirements for vehicles operating on biodiesel blends between 6% and 20% (B6–B20) will result in premature engine wear. Such wear is not covered by the New Vehicle Limited Warranty.

Biodiesel is a fuel produced from renewable resources typically derived from animal fat, rapeseed oil (Rapeseed Methyl Ester (RME) base), or soybean oil (Soy Methyl Ester (SME or SOME) base). Biodiesel fuel has inherent limitations which require that you understand and adhere to the following requirements if you use blends of Biodiesel between 6% and 20% (B6–B20). There are no unique restrictions for the use of B5.

Biodiesel Fuel Properties — Low Ambient Temperatures

Biodiesel fuel may gel or solidify at low ambient temperatures, which may pose problems for both storage and operation. Precautions can be necessary at low ambient temperatures, such as storing the fuel in a heated building or a heated storage tank, or using cold temperature additives.

Fuel Quality — Must Comply With ASTM Standards

The quality of Biodiesel fuel may vary widely. Only fuel produced by a BQ9000 supplier to the following specifications may be blended to meet Biodiesel blend B6 – B20 fuel meeting ASTM specification D-7467:

- Petrodiesel fuel meeting ASTM specification D-975 and Biodiesel fuel (B100) meeting ASTM specification D-6751

CAUTION!
Use of blends greater than 20% is not approved. Use of blends greater than 20% can result in engine damage. Such damage is not covered by the New Vehicle Limited Warranty.

CAUTION!
Failure to comply with Oil Change requirements for vehicles operating on biodiesel blends between 6% and 20% (B6–B20) will result in premature engine wear. Such wear is not covered by the New Vehicle Limited Warranty.
Fuel Oxidation Stability — Must Use Fuel Within Six Months Of Manufacture

Biodiesel fuel has poor oxidation stability which can result in long term storage problems. Fuel produced to approved ASTM standards, if stored properly, provides for protection against fuel oxidation for up to six months.

Fuel Water Separation — Must Use Mopar Approved Fuel Filter Elements

Biodiesel fuel has a natural affinity to water and water accelerates microbial growth. Your Mopar filtration system is designed to provide adequate fuel water separation capabilities.

Fuel In Oil Dilution — Must Adhere To Required Oil Change Interval

Fuel dilution of lubricating oil has been observed with the use of Biodiesel fuel. Fuel in oil must not exceed 5%. To ensure this limit is met your oil change interval must be maintained with in the suggested schedule. The regular use of biodiesel between 6% and 20% requires intervals shorter than the outlined 10,000 miles and must not exceed the suggested schedule. When routinely operating on biodiesel between 6% and 20%, oil and filter replacement intervals must not exceed 8,000 Miles or 6 months, which ever comes first.

Biodiesel Fuel Filter Change Intervals

The use of biodiesel requires more frequent fuel filter change intervals. When operating on biodiesel between 6% and 20%, fuel filter replacement intervals should be every second oil change, and must not exceed 16,000 miles (25,750 km).

NOTE:

Under no circumstances should oil change intervals exceed 8,000 miles (12,875 km) or 6 months, if regular operation occurs with 6% - 20% biodiesel blends. Under no circumstances should fuel filter replacement intervals exceed every second oil change and must not exceed 16,000 miles (25,750 km), if regular operation occurs with 6% - 20% biodiesel blends. Failure to comply with these Oil Change and fuel filter requirements for vehicles operating on biodiesel blends up to B20 may result in premature engine wear. Such wear is not covered by the New Vehicle Limited Warranty. The engine may suffer severe damage if operated with concentrations of biodiesel higher than 20%.
## FLUID CAPACITIES

<table>
<thead>
<tr>
<th>Category</th>
<th>US</th>
<th>Metric</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel (Approximate)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.0L Turbo Diesel Engine</td>
<td>18.3 Gallons</td>
<td>69.3 Liters</td>
</tr>
<tr>
<td>Diesel Exhaust Fluid Tank</td>
<td>5.1 Gallons</td>
<td>19.3 Liters</td>
</tr>
<tr>
<td>Engine Oil With Filter</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.0L Turbo Diesel Engine (SAE 5W-40 Synthetic, API SN)</td>
<td>9 Quarts</td>
<td>8.5 Liters</td>
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<tr>
<td>Cooling System</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.0L Turbo Diesel Engine (Mopar Engine Coolant/Antifreeze 10 Year/150,000 Mile Formula OAT (Organic Additive Technology))</td>
<td>12 Quarts</td>
<td>11.4 Liters</td>
</tr>
</tbody>
</table>
FLUIDS AND LUBRICANTS

Engine

<table>
<thead>
<tr>
<th>Component</th>
<th>Fluid, Lubricant, or Genuine Part</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine Coolant</td>
<td>We recommend you use Mopar Antifreeze/Coolant 10 Year/150,000 Mile Formula OAT (Organic Additive Technology).</td>
</tr>
<tr>
<td>Engine Oil</td>
<td>We recommend you use 5W-40 synthetic engine oil such as Mopar or Pennzoil Platinum Euro that meets FCA Material Standard MS-12991 and the API SN engine oil category is required.</td>
</tr>
<tr>
<td>Engine Oil Filter</td>
<td>We recommend you use Mopar Engine Oil Filters.</td>
</tr>
<tr>
<td>Fuel Filters</td>
<td>We recommend you use Mopar Fuel Filter. Must meet 3 micron rating. Using a fuel filter that does not meet the manufacturers filtration and water separating requirements can severely impact fuel system life and reliability.</td>
</tr>
<tr>
<td>Fuel Selection</td>
<td>Use good quality diesel fuel from a reputable supplier in your vehicle. Federal law requires that you must fuel this vehicle with Ultra Low Sulfur Highway Diesel fuel (15 ppm Sulfur maximum) and prohibits the use of Low Sulfur Highway Diesel fuel (500 ppm Sulfur maximum) to avoid damage to the emissions control system. For most year-round service, No. 2 diesel fuel meeting ASTM specification D-975 Grade S15 will provide good performance. We recommend you use a blend of up to 5% biodiesel, meeting ASTM specification D-975 with your diesel engine. This vehicle is compatible with biodiesel blends greater than 5% but no greater than 20% biodiesel meeting ASTM specification D-7467 provided the shortened maintenance intervals are followed as directed.</td>
</tr>
<tr>
<td>Diesel Exhaust Fluid</td>
<td>Mopar Diesel Exhaust Fluid (API Certified) (DEF) or equivalent that has been API Certified to the ISO 22241 standard. Use of fluids not API Certified to ISO 22241 may result in system damage.</td>
</tr>
</tbody>
</table>

NOTE:
If the vehicle is exposed to extreme cold (below 20°F or -7°C), or is required to operate at colder-than-normal conditions for prolonged periods, use climatized No. 2 diesel fuel or dilute the No. 2 diesel fuel with 50% No. 1 diesel fuel. This will provide better protection from fuel gelling or wax-plugging of the fuel filters.
### Chassis

<table>
<thead>
<tr>
<th>Component</th>
<th>Fluid, Lubricant, or Genuine Part</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automatic Transmission – If Equipped</td>
<td>Use only Mopar ZF 8&amp;9 Speed Automatic Transmission Fluid (ATF) or equivalent. Failure to use the correct fluid may affect the function or performance of your transmission.</td>
</tr>
<tr>
<td>Manual Transmission – If Equipped</td>
<td>We recommend you use Mopar ATF+4 Automatic Transmission Fluid.</td>
</tr>
<tr>
<td>Transfer Case</td>
<td>We recommend you use Mopar ATF+4 Automatic Transmission Fluid.</td>
</tr>
<tr>
<td>Axle Differential (Front Axles)</td>
<td>We recommend you use Mopar Gear &amp; Axle Lubricant (SAE 75W85) (API GL-5)</td>
</tr>
<tr>
<td>Axle Differential (Rear M200 Sales Code DRZ)</td>
<td>We recommend you use Mopar Gear &amp; Axle Lubricant (SAE 75W140) (API GL-5).</td>
</tr>
<tr>
<td>Brake Master Cylinder</td>
<td>We recommend you use Mopar DOT 3 Brake Fluid, SAE J1703.</td>
</tr>
<tr>
<td>Power Steering Reservoir</td>
<td>We recommend you use Mopar Electric Steering Pump Fluid.</td>
</tr>
</tbody>
</table>
# INDEX

## A
- Adding Engine Coolant (Antifreeze) .................. 45
- Adding Fuel ........................................... 22
- Air Cleaner, Engine (Engine Air Cleaner Filter) .... 39
- Antifreeze (Engine Coolant) .................. 45, 51
  - Disposal ............................................. 46
- Automatic Transmission
  - Fluid Type .......................................... 53
- Axle Fluid ........................................... 53

## B
- Brake Fluid ........................................... 53

## C
- Capacities, Fluid .................................... 51
- Caps, Filler
  - Oil (Engine) .................................. 37, 39
  - Radiator (Coolant Pressure) .................... 46
- Cooling Pressure Cap (Radiator Cap) ............. 46

## D
- Dealer Service ...................................... 38
- Diesel Fuel .......................................... 48
- Diesel Fuel Requirements .......................... 48
- Bulk Storage Of ..................................... 22
- Diesel Fuel System, Re-Priming .................. 43
- Dipsticks
  - Oil (Engine) ..................................... 38
- Disposal
  - Antifreeze (Engine Coolant) .................... 46
- Draining Fuel/Water Separator Filter ............. 41

## E
- Engine .................................................. 37
- Air Cleaner .......................................... 39
- Block Heater ......................................... 15, 16
- Checking Oil Level ................................. 38
- Compartment ........................................ 37
- Compartment Identification ..................... 37
- Coolant (Antifreeze) ............................ 45, 51
- Cooling ............................................... 44
- Idling ................................................. 19
- Oil .................................................... 38, 51, 52
- Oil Filler Cap ...................................... 37, 39
- Oil Filter ............................................ 39
- Oil Selection ........................................ 51

## F
- Filters
  - Air Cleaner ........................................ 39
  - Engine Fuel ....................................... 41
  - Engine Oil ........................................... 39, 52
  - Engine Oil Disposal ............................ 39
- Fluid Capacities .................................... 51
- Fluid, Brake .......................................... 53
- Fluids And Lubricants ............................. 52
<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel</td>
<td>48</td>
</tr>
<tr>
<td>Adding</td>
<td>22</td>
</tr>
<tr>
<td>Diesel Filter</td>
<td>52</td>
</tr>
<tr>
<td>Requirements</td>
<td>48</td>
</tr>
<tr>
<td>Specifications</td>
<td>48</td>
</tr>
<tr>
<td>Tank Capacity</td>
<td>51</td>
</tr>
<tr>
<td>Fueling</td>
<td>22</td>
</tr>
<tr>
<td><strong>G</strong></td>
<td></td>
</tr>
<tr>
<td>Gauges</td>
<td></td>
</tr>
<tr>
<td>Voltage</td>
<td>17</td>
</tr>
<tr>
<td>Gross Axle Weight Rating</td>
<td>26</td>
</tr>
<tr>
<td>Gross Vehicle Weight Rating</td>
<td>25</td>
</tr>
<tr>
<td><strong>H</strong></td>
<td></td>
</tr>
<tr>
<td>Hitches</td>
<td></td>
</tr>
<tr>
<td>Trailer Towing</td>
<td>28</td>
</tr>
<tr>
<td><strong>I</strong></td>
<td></td>
</tr>
<tr>
<td>Instrument Cluster</td>
<td>5</td>
</tr>
<tr>
<td>Display</td>
<td>8</td>
</tr>
<tr>
<td>Intervention Regeneration Strategy</td>
<td>44</td>
</tr>
<tr>
<td><strong>M</strong></td>
<td></td>
</tr>
<tr>
<td>Maintenance Schedule</td>
<td>33</td>
</tr>
<tr>
<td><strong>N</strong></td>
<td></td>
</tr>
<tr>
<td>New Vehicle Break-In Period</td>
<td>17</td>
</tr>
<tr>
<td><strong>O</strong></td>
<td></td>
</tr>
<tr>
<td>Oil Filter, Change</td>
<td>39</td>
</tr>
<tr>
<td>Oil Filter, Selection</td>
<td>39</td>
</tr>
<tr>
<td>Oil, Engine</td>
<td>51</td>
</tr>
<tr>
<td>Capacity</td>
<td>38</td>
</tr>
<tr>
<td>Change Interval</td>
<td>38</td>
</tr>
<tr>
<td>Checking</td>
<td>38</td>
</tr>
<tr>
<td>Dipstick</td>
<td>38</td>
</tr>
<tr>
<td>Disposal</td>
<td>39</td>
</tr>
<tr>
<td>Filter</td>
<td>39, 52</td>
</tr>
<tr>
<td>Filter Disposal</td>
<td>39</td>
</tr>
<tr>
<td>Materials Added To</td>
<td>39</td>
</tr>
<tr>
<td>Recommendation</td>
<td>38, 51</td>
</tr>
<tr>
<td>Viscosity</td>
<td>39, 51</td>
</tr>
<tr>
<td><strong>R</strong></td>
<td></td>
</tr>
<tr>
<td>Radiator Cap (Coolant Pressure Cap)</td>
<td>46</td>
</tr>
<tr>
<td>Remote Control</td>
<td></td>
</tr>
<tr>
<td>Starting System</td>
<td>4</td>
</tr>
<tr>
<td>Remote Starting System</td>
<td>4</td>
</tr>
<tr>
<td><strong>S</strong></td>
<td></td>
</tr>
<tr>
<td>Schedule, Maintenance</td>
<td>33</td>
</tr>
<tr>
<td>Selection Of Coolant (Antifreeze)</td>
<td>52</td>
</tr>
<tr>
<td>Spark Plugs</td>
<td>52</td>
</tr>
<tr>
<td>Starting</td>
<td>14</td>
</tr>
<tr>
<td>Automatic Transmission</td>
<td>15</td>
</tr>
<tr>
<td>Engine Block Heater</td>
<td>15, 16</td>
</tr>
<tr>
<td>Remote</td>
<td>4</td>
</tr>
<tr>
<td>Starting Procedures</td>
<td>14</td>
</tr>
<tr>
<td><strong>T</strong></td>
<td></td>
</tr>
<tr>
<td>Tires</td>
<td></td>
</tr>
<tr>
<td>Trailer Towing</td>
<td>30</td>
</tr>
<tr>
<td>Tongue Weight/Trailer Weight</td>
<td>29</td>
</tr>
<tr>
<td>Towing</td>
<td>25</td>
</tr>
<tr>
<td>Guide</td>
<td>28</td>
</tr>
<tr>
<td>Weight</td>
<td>28</td>
</tr>
<tr>
<td>Trailer Towing</td>
<td>25</td>
</tr>
<tr>
<td>Cooling System Tips</td>
<td>32</td>
</tr>
<tr>
<td>Hitches</td>
<td>28</td>
</tr>
<tr>
<td>Minimum Requirements</td>
<td>29</td>
</tr>
<tr>
<td>Tips</td>
<td>32</td>
</tr>
<tr>
<td>Trailer And Tongue Weight</td>
<td>29</td>
</tr>
<tr>
<td>Wiring</td>
<td>31</td>
</tr>
<tr>
<td>Trailer Towing Guide</td>
<td>28</td>
</tr>
<tr>
<td>Trailer Weight</td>
<td>28</td>
</tr>
<tr>
<td>Transfer Case</td>
<td></td>
</tr>
<tr>
<td>Fluid</td>
<td>53</td>
</tr>
<tr>
<td>Transmission</td>
<td>53</td>
</tr>
<tr>
<td><strong>V</strong></td>
<td></td>
</tr>
<tr>
<td>Viscosity, Engine Oil</td>
<td>39</td>
</tr>
<tr>
<td><strong>W</strong></td>
<td></td>
</tr>
<tr>
<td>Water Separator</td>
<td></td>
</tr>
<tr>
<td>Diesel Fuel</td>
<td>41</td>
</tr>
</tbody>
</table>
**WARNING:** Operating, servicing and maintaining a passenger vehicle or off-highway motor vehicle can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your vehicle in a well-ventilated area and wear gloves or wash your hands frequently when servicing your vehicle. For more information go to www.P65Warnings.ca.gov/passenger-vehicle.

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This Owner’s Manual Supplement has been prepared to help you get acquainted with your new Jeep® brand vehicle and to provide a convenient reference source for common questions. Not all features shown in this manual may apply to your vehicle. For additional information, visit www.mopar.com (U.S.), www.mopar.ca (Canada) or your local Jeep® brand dealer.

**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.

Drunk 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.

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