

W A G O N E E R

**2022 GRAND WAGONEER/WAGONEER**

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3.0L ENGINE SUPPLEMENT

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

This Owner's Manual has been prepared to help you get acquainted with your new Wagoneer 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 [mopar.com/om](http://mopar.com/om) (U.S.), [owners.mopar.ca](http://owners.mopar.ca) (Canada), or your local Chrysler, Dodge, Jeep®, or Ram dealer.

 **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](http://www.P65Warnings.ca.gov/passenger-vehicle).

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# STARTING AND OPERATING

## STARTING THE ENGINE

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### TURBOCHARGER “COOL DOWN” — 3.0L ENGINE ONLY

The 3.0L engine is equipped with an after-run pump to cool the turbocharger after the engine is shut off. Depending on the type of driving and the amount of cargo, the pump will run for up to 20 minutes after the engine has been shut off to circulate coolant through the turbocharger. Although the pump is rubber-mounted for quiet operation, it is normal to hear it running during this time.

## TRAILER TOWING

### TRAILER TOWING WEIGHTS (MAXIMUM TRAILER WEIGHT RATINGS)

Engine	Model	GCWR	Frontal Area	Maximum GTW	Maximum Trailer TW
3.0L	4x2	12,300 lb (5,579 kg)	40 sq ft (3.72 sq m)	5,850 lb (2,653 kg)	585 lb (265 kg)
3.0L	4x2 Max Tow	16,500 lb (7,484 kg)	60 sq ft (5.57 sq m)	10,000 lb (4,536 kg)	1,000 lb (454 kg)
3.0L	4x4	12,300 lb (5,579 kg)	40 sq ft (3.72 sq m)	5,630 lb (2,553 kg)	563 lb (255 kg)
3.0L	4x4 Max Tow	16,500 lb (7,484 kg)	55 sq ft (5.11 sq m)	9,840 lb (4,463 kg)	984 lb (446 kg)
Refer to local laws for maximum trailer towing speeds.					

# SERVICING AND MAINTENANCE

## SCHEDULED SERVICING

### NOTE:

**For 3.0L engines:** Under no circumstances should oil change intervals exceed 15,000 miles (24,140 km), or 12 months, whichever comes first. The engine controller also monitors the number of hours of engine run time, and will illuminate the oil change indicator after 500 hours (which is not likely to be exceeded except for certain fleet customers with extended engine idling periods).

## MAINTENANCE PLAN

Mileage Or Time Passed (Whichever Comes First)	20,000	30,000	40,000	50,000	60,000	70,000	80,000	90,000	100,000	110,000	120,000	130,000	140,000	150,000
Or Years:	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Or Kilometers:	32,000	48,000	64,000	80,000	96,000	112,000	128,000	144,000	160,000	176,000	192,000	208,000	224,000	240,000
<b>Additional Inspections</b>														
Replace spark plugs (3.0L Engine). <sup>1</sup>					X						X			

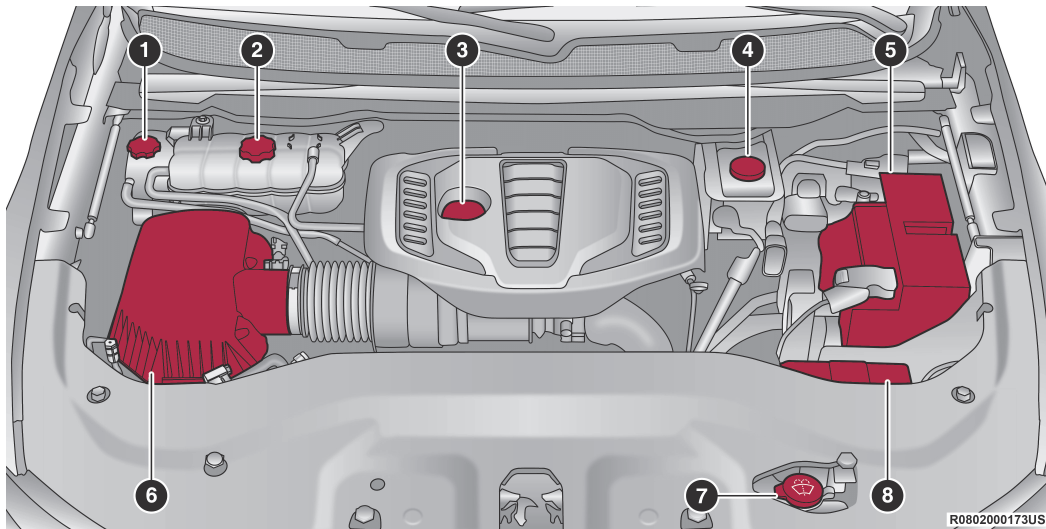
1. The spark plug change interval is mileage based only, yearly intervals do not apply.

### 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 affect vehicle handling and performance. This could cause an accident.

## ENGINE COMPARTMENT

### 3.0L ENGINE



- 1 – Intercooler Coolant Pressure Cap
- 2 – Engine Coolant Pressure Cap
- 3 – Engine Oil Fill Cap
- 4 – Brake Fluid Reservoir Cap





- 5 – Battery
- 6 – Engine Air Cleaner Filter
- 7 – Washer Fluid Reservoir Cap
- 8 – Power Distribution Center (Fuses)

## CHECKING OIL LEVEL — 3.0L ENGINE

The 3.0L engine does not have a traditional “dipstick” and there is no need to manually check the oil level. If it is desired to check engine oil level, it can be seen on the instrument cluster display by navigating to the appropriate screen under “Vehicle Info”. Use the **up**  $\triangle$  or **down**  $\nabla$  arrow buttons within the steering wheel controls to find the Vehicle Info menu. Then use the **right**  $\triangleright$  or **left**  $\triangleleft$  arrow buttons until you reach the “Oil Level” sub-menu.

There is a white bar on the gauge which shows the oil level. As long as the oil level is between the minimum and the maximum it is safe to operate the vehicle. If the oil level is either too high or too low, a red bar will be illuminated.

When the engine is in need of more oil, the Oil Level Warning Light will illuminate. This warning will appear for five seconds. Within the next 300 miles (500 km) you should add 1 qt of manufacturer-specified motor oil to the engine  
 ➤ page 9.

Oil Level Critically Low (Add 2 Quarts)	
Oil Level Low (Add 1 Quart)	
Oil Level Ok	
Oil Level Critically High	

This light will reappear every time the engine is started until a safe level is detected. Continuing to operate the vehicle without adding oil may result in a critically low oil level and possible engine damage. See the Critically Low and Critically High steps within the next caution.

### NOTE:

Use care when filling under hood fluids such as engine oil, washer fluid, antifreeze, etc. to minimize spillage onto the top of the engine. Any excess fluid that is spilled onto the top of the engine should be removed using compressed air or an absorbent cloth.

### Oil Level Display - How To Refresh After Adding Oil

In vehicles equipped with the 3.0L engine, the oil level is automatically monitored each time the vehicle is: parked on a relatively level surface, the oil is warm, and the engine has been off four minutes. To refresh the oil level display (after a quart of the correct oil has been added), follow this process:

- Run the engine until the oil temperature is above 120°F (49°C).
- Park the vehicle on relatively level ground.
- Turn the engine off and wait four minutes. If you choose to stay in the vehicle and want to listen to the radio while waiting, it is acceptable to have the ignition switch in any position (OFF or ON/RUN) as long as the engine is not running.
- Start the engine and the new oil level will be available in the Vehicle Info menu (accessible via the instrument cluster display controls on the steering wheel).



**NOTE:**

- If the level indication is not updated after the previously described procedure, repeat the process. The oil level measurement is made every time the engine has been turned off (after being warmed up) and on a level surface. If you do not get a new reading after adding oil, find a more level surface to park on. Most parking lots and gas stations are sufficiently level, some driveways are not.
- If you have added a quart of oil and the oil level display is not reading 3/4 or full, please contact an authorized dealer for service.

**WARNING!**

Be aware the engine oil fill cap may be hot. Please use suitable gloves. **WARNING:** risk of burns!

**CAUTION!**

Do not to add too much oil. Overfilling the oil may damage the engine.

**NOTE:**

- After adding oil to the engine, always reinstall the oil cap securely by rotating clockwise until it stops. Never run the engine without the oil fill cap as this could cause a oil leak.
- Because the oil level is automatically detected only when the engine has been off and restarted (after four minutes), the system cannot immediately detect a sudden drop in oil level while driving (for example, if the oil pan starts to leak due to damage during an off-road event).

**CAUTION!**

If the Critically Low or Critically High Oil Level Warning Light is illuminated, the following steps should be taken:

- Critically Low: add 2 quarts of manufacturer-specified oil as soon as possible  
 ⇨ page 9. Continuing to operate the vehicle with a Critically Low oil level may damage the engine.
- Critically High: contact an authorized dealer for service. Continuing to operate the vehicle with a Critically High oil level may damage the engine.

Do not use any oils that are not manufacturer-specified and API approved.

Used engine oil and oil filters contain substances which are harmful to the environment. When oil and filters are changed contact an authorized dealer and dispose of in a safe and responsible manner.

# TECHNICAL SPECIFICATIONS

## FUEL REQUIREMENTS

### 3.0L ENGINE

Do not use E-85 flex fuel or ethanol blends greater than 15% in this engine.



This engine is designed to meet all emission regulations, provide optimal fuel economy and performance when using high-quality unleaded premium gasoline having a posted octane number of 91, as specified by the (R+M)/2 method. The use of 91 or higher octane premium gasoline is required in this engine.

## FLUID CAPACITIES

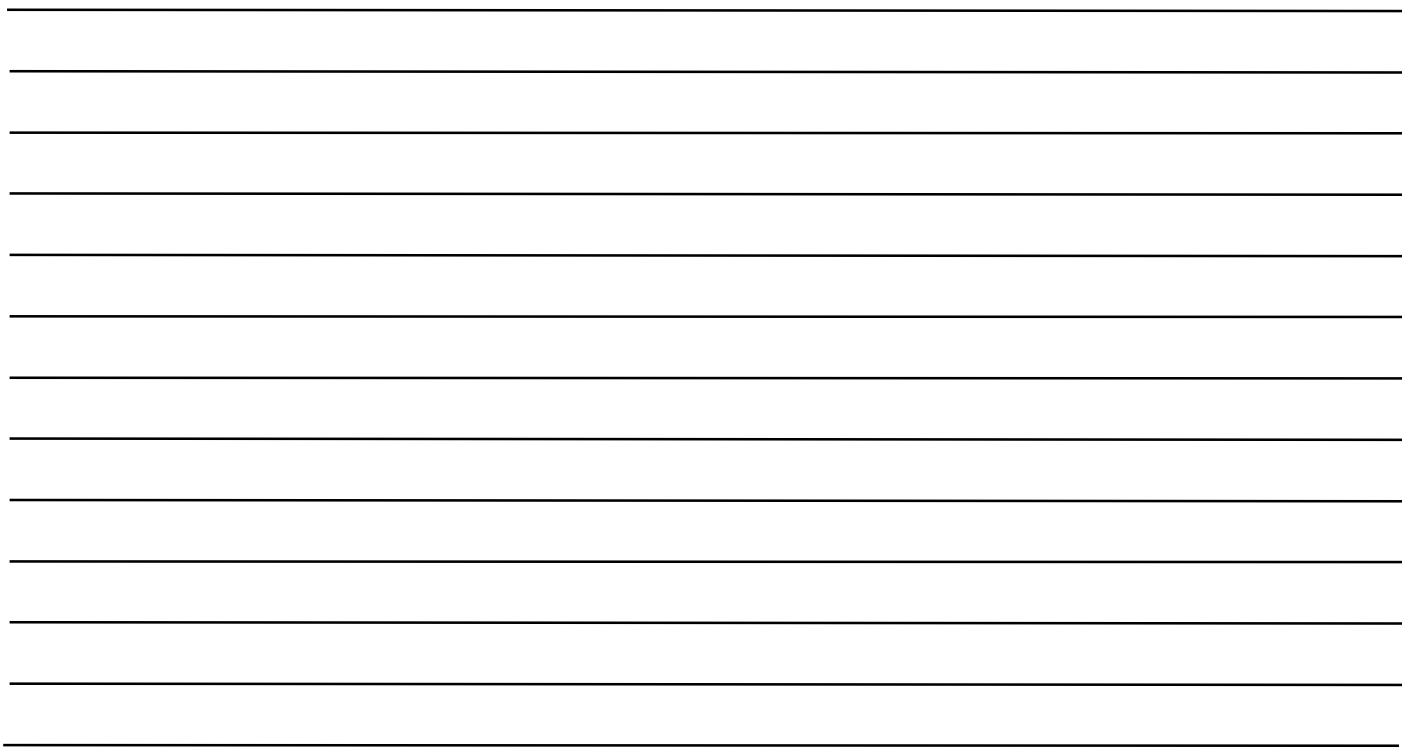
	US	Metric
<b>Engine Oil With Filter</b>		
3.0L Engine	7.5 Quarts	7.1 Liters
<b>Cooling System *</b>		
3.0L Engine	16.6 Quarts	15.7 Liters
3.0L Engine Intercooler	2.9 Quarts	2.7 Liters
* Includes heater and coolant recovery bottle filled to MAX level.		

## ENGINE FLUIDS AND LUBRICANTS

Component	Fluid, Lubricant, or Genuine Part
Engine Coolant	We recommend using Mopar® Antifreeze/Coolant 10 Year/150,000 Mile (240,000 km) Formula OAT (Organic Additive Technology) meeting the requirements of the manufacturer Material Standard MS.90032.
Engine Coolant – Intercooler	We recommend using Mopar® Antifreeze/Coolant 10 Year/150,000 Mile (240,000 km) Formula OAT (Organic Additive Technology) meeting the requirements of the manufacturer Material Standard MS.90032.
Engine Oil – 3.0L Engine	We recommend using Mopar® API Certified SAE 0W-40 Full Synthetic Engine Oil which meets the requirements of the manufacturer Material Standard MS-A0921. Equivalent full synthetic SAE 0W-40 engine oil can be used but must have the API Donut trademark.
Fuel Selection – 3.0L Engine	91 Octane or Higher (R+M)/2 Method, 0-15% Ethanol (Do Not Use E-85).

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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/or 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.

## **DRIVING AND ALCOHOL**

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 rideshare, 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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