Jeep®

2021 WRANGLER RUBICON 392

PERFORMANCE FEATURES GUIDE

Jeep

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INTRODUCTION

Dear Customer, congratulations on selecting your new Jeep®. Be assured that it represents precision workmanship, distinctive styling, and high quality.

This is a specialized utility vehicle. It can go places and perform tasks that are not intended for conventional passenger vehicles. It handles and maneuvers differently from many passenger vehicles both on-road and off-road, so take time to become familiar with your vehicle. It is not intended for off-road driving or use in other severe conditions suited for a four-wheel drive vehicle. Before you start to drive this vehicle, read this Owner's Manual. Be sure you are familiar with all vehicle controls, particularly those used for braking, steering, transmission, and transfer case shifting. Learn how your vehicle handles on different road surfaces. Your driving skills will improve with experience. When driving off-road, or working the vehicle, don't overload the vehicle or expect the vehicle to overcome the natural laws of physics. Always observe federal, state, provincial and local laws wherever you drive. As with other vehicles of this type, failure to operate this vehicle correctly may result in loss of control or a collision.

This Owner's Manual has been prepared with the assistance of service and engineering specialists to acquaint you with the operation and maintenance of your vehicle. It is supplemented by customer-oriented documents. Within this information, you will find a description of the services that FCA US LLC offers to its customers as well as the details of the terms and conditions for maintaining its validity. Please take the time to read all of these publications carefully before driving your vehicle for the first time. Following the instructions, recommendations, tips, and important warnings in this manual will help ensure safe and enjoyable operation of your vehicle.

When it comes to service, remember that authorized dealers know your Jeep® best, have factory-trained technicians and genuine Mopar® parts, and care about your satisfaction.

GETTING TO KNOW YOUR INSTRUMENT PANEL

INSTRUMENT CLUSTER

Instrument Cluster

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.
3. **Speedometer**
   - Indicates vehicle speed.
4. **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.

5. **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.

ENGINE BREAK-IN RECOMMENDATIONS

Engine break in occurs mainly during the first 500 miles (805 km) and continues through the first oil change interval.

It is recommended for the operator to observe the following driving behaviors during the new vehicle break-in period:

0 to 100 miles (0 to 161 km):

- Do not allow the engine to operate at idle for an extended period of time.
- Press the accelerator pedal slowly and not more than halfway to avoid rapid acceleration.
- Avoid aggressive braking.
- Drive with the engine speed below 3,500 RPM.
- Maintain vehicle speed below 55 mph (88 km/h) and observe local speed limits.

100 to 300 miles (161 to 483 km):

- Press the accelerator pedal slowly and not more than halfway to avoid rapid acceleration in lower gears (FIRST to THIRD gears).
- Avoid aggressive braking.
- Drive with the engine speed below 5,000 RPM.
- Maintain vehicle speed below 70 mph (112 km/h) and observe local speed limits.

300 to 500 miles (483 to 805 km):

- Exercise the full engine RPM range, shifting manually (paddles or gear shift) at higher RPM when possible.
- Do not perform sustained operation with the accelerator pedal at wide open throttle.
- Maintain vehicle speed below 85 mph (136 km/h) and observe local speed limits.

For the first 1,500 miles (2,414 km):

- Avoid high engine and driveline loading.

NOTE:
Check engine oil with every refueling and add if necessary. Oil and fuel consumption may be higher through the first oil change interval. Running the engine with an oil level below the add mark can cause severe engine damage.

AUTOMATIC TRANSMISSION

You must press and hold the brake pedal while shifting out of PARK.

WARNING!

- Never use the PARK position as a substitute for the parking brake. Always apply the parking brake fully when exiting the vehicle to guard against vehicle movement and possible injury or damage.
- Your vehicle could move and injure you and others if it is not in PARK. Check by trying to move the transmission gear selector out of PARK with the brake pedal released. Make sure the transmission is in PARK before exiting the vehicle.

(Continued)

WARNING! *(Continued)*

- The transmission may not engage PARK if the vehicle is moving. Always bring the vehicle to a complete stop before shifting to PARK, and verify that the transmission gear position indicator solidly indicates PARK (P) without blinking. Ensure that the vehicle is completely stopped, and the PARK position is properly indicated, before exiting the vehicle.
- It is dangerous to shift out of PARK or NEUTRAL if the engine speed is higher than idle speed. If your foot is not firmly pressing the brake pedal, the vehicle could accelerate quickly forward or in reverse. You could lose control of the vehicle and hit someone or something. Only shift into gear when the engine is idling normally and your foot is firmly pressing the brake pedal.

(Continued)

WARNING! *(Continued)*

- Unintended movement of a vehicle could injure those in or near the vehicle. As with all vehicles, you should never exit a vehicle while the engine is running. Before exiting a vehicle, always come to a complete stop, then apply the parking brake, shift the transmission into PARK, and turn the ignition OFF. When the ignition is in the OFF mode, the transmission is locked in PARK, securing the vehicle against unwanted movement.
- When exiting the vehicle, always make sure the ignition is in the OFF mode, remove the key fob from the vehicle, and lock the vehicle.
- Never leave children alone in a vehicle, or with access to an unlocked vehicle. Allowing children to be 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 transmission gear selector.

(Continued)

WARNING! *(Continued)*

- Do not leave the key fob in or near the vehicle (or in a location accessible to children), and do not leave the ignition in the ACC or ON/RUN mode. A child could operate power windows, other controls, or move the vehicle.

CAUTION!

- Shift into or out of PARK or REVERSE only after the vehicle has come to a complete stop.
- Do not shift between PARK, REVERSE, NEUTRAL, or DRIVE when the engine is above idle speed.
- Before shifting into any gear, make sure your foot is firmly pressing the brake pedal.

IGNITION PARK INTERLOCK

This vehicle is equipped with an Ignition Park Interlock which requires the transmission to be in PARK before the ignition can be turned to the OFF mode. This helps the driver avoid inadvertently leaving the vehicle without placing the transmission in PARK. This system also

locks the transmission in PARK whenever the ignition is in the OFF mode.

NOTE:
The transmission is NOT locked in PARK when the ignition is in the ACC mode (even though the engine will be off). Ensure that the transmission is in PARK, and the ignition is **OFF** (not in ACC mode) before exiting the vehicle.

Brake/Transmission Shift Interlock System

This vehicle is equipped with a Brake Transmission Shift Interlock system (BTSI) that holds the transmission gear selector in PARK unless the brakes are applied. To shift the transmission out of PARK, the engine must be running and the brake pedal must be pressed. The brake pedal must also be pressed to shift from NEUTRAL into DRIVE or REVERSE when the vehicle is stopped or moving at low speeds.

Eight–Speed Automatic Transmission

The transmission gear range (PRNDM) is displayed both beside the gear selector and in the instrument cluster. To select a gear range, press the lock button on the gear selector and move the selector rearward or forward. To shift the transmission out of PARK, the engine must be running and the brake pedal must be pressed. You must also press the brake pedal to shift from NEUTRAL into DRIVE or REVERSE when the vehicle is stopped or moving at low speeds. Select the DRIVE range for normal driving.

NOTE:
In the event of a mismatch between the gear selector position and the actual transmission gear (for example, driver selects PARK while driving), the position indicator will blink continuously until the selector is returned to the proper position, or the requested shift can be completed.

The electronically controlled transmission adapts its shift schedule based on driver inputs, along with environmental and road conditions. The transmission electronics are self-calibrating; therefore, the first few shifts on a new vehicle may be somewhat abrupt. This is a normal condition, and precision shifts will develop within a few hundred miles (kilometers).

Only shift from DRIVE to PARK or REVERSE when the accelerator pedal is released and the vehicle is stopped. Be sure to keep your foot on the brake pedal when shifting between these gears.

The transmission gear selector provides PARK, REVERSE, NEUTRAL, and MANUAL (M) (AutoStick) shift positions. Manual shifts can be made using the AutoStick shift control. Toggling the gear selector forward (-) or rearward (+) while in the MANUAL (AutoStick) position (beside the DRIVE position), or tapping the shift paddles (+/-), (if equipped) will manually select the transmission gear, and will display the current gear in the instrument cluster ➪ page 12.

Transmission Gear Selector

NOTE:
If the gear selector cannot be moved to the PARK, REVERSE, or NEUTRAL position (when pushed forward), it is probably in the AutoStick (+/-) position (beside the DRIVE position). In AutoStick mode, the transmission gear (1, 2, 3, etc.) is displayed in the instrument cluster. Move the gear selector to the right (into the DRIVE [D] position) for access to PARK, REVERSE, and NEUTRAL.

Gear Ranges

Do not press the accelerator pedal when shifting out of PARK or NEUTRAL.

NOTE:
After selecting any gear range, wait a moment to allow the selected gear to engage before accelerating. This is especially important when the engine is cold.

PARK (P)

This range supplements the parking brake by locking the transmission. The engine can be started in this range. Never attempt to use PARK while the vehicle is in motion. Apply the parking brake when exiting the vehicle in this range.

When parking on a hill, apply the parking brake before shifting the transmission to PARK. As an added precaution, turn the front wheels toward the curb on a downhill grade and away from the curb on an uphill grade.

When exiting the vehicle, always:

- Apply the parking brake.
- Shift the transmission into PARK.
- Turn the ignition OFF.
- Remove the key fob from the vehicle.

NOTE:
On four-wheel drive vehicles, be sure that the transfer case is in a drive position.

WARNING!

- Never use the PARK position as a substitute for the parking brake. Always apply the parking brake fully when exiting the vehicle to guard against vehicle movement and possible injury or damage.

(Continued)

WARNING! *(Continued)*

- Your vehicle could move and injure you and others if it is not in PARK. Check by trying to move the transmission gear selector out of PARK with the brake pedal released. Make sure the transmission is in PARK before exiting the vehicle.
- The transmission may not engage PARK if the vehicle is moving. Always bring the vehicle to a complete stop before shifting to PARK, and verify that the transmission gear position indicator solidly indicates PARK (P) without blinking. Ensure that the vehicle is completely stopped, and the PARK position is properly indicated, before exiting the vehicle.
- It is dangerous to shift out of PARK or NEUTRAL if the engine speed is higher than idle speed. If your foot is not firmly pressing the brake pedal, the vehicle could accelerate quickly forward or in reverse. You could lose control of the vehicle and hit someone or something. Only shift into gear when the engine is idling normally and your foot is firmly pressing the brake pedal.

(Continued)

WARNING! *(Continued)*

- Unintended movement of a vehicle could injure those in or near the vehicle. As with all vehicles, you should never exit a vehicle while the engine is running. Before exiting a vehicle, always come to a complete stop, then apply the parking brake, shift the transmission into PARK, and turn the ignition OFF. When the ignition is in the OFF mode, the transmission is locked in PARK, securing the vehicle against unwanted movement.
- When exiting the vehicle, always make sure the ignition is in the OFF mode, remove the key fob from the vehicle, and lock the vehicle.
- Never leave children alone in a vehicle, or with access to an unlocked vehicle. Allowing children to be 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 transmission gear selector.

(Continued)

WARNING! *(Continued)*

- Do not leave the key fob in or near the vehicle (or in a location accessible to children), and do not leave the ignition in the ACC or ON/RUN mode. A child could operate power windows, other controls, or move the vehicle.

CAUTION!

- Before moving the transmission gear selector out of PARK, you must start the engine, and also press the brake pedal. Otherwise, damage to the gear selector could result.
- DO NOT race the engine when shifting from PARK or NEUTRAL into another gear range, as this can damage the drivetrain.

The following indicators should be used to ensure that you have properly engaged the transmission into the PARK position:

- When shifting into PARK, push the lock button on the gear selector and firmly move the gear selector all the way forward until it stops and is fully seated.
- Look at the transmission gear position display and verify that it indicates the PARK position (P), and is not blinking.
- With brake pedal released, verify that the gear selector will not move out of PARK.

REVERSE (R)

This range is for moving the vehicle backward. Shift into REVERSE only after the vehicle has come to a complete stop.

NEUTRAL (N)

Use this range when the vehicle is standing for prolonged periods with the engine running. Apply the parking brake and shift the transmission into PARK if you must exit the vehicle.

WARNING!

Do not coast in NEUTRAL and never turn off the ignition to coast down a hill. These are unsafe practices that limit your response to changing traffic or road conditions. You might lose control of the vehicle and have a collision.

CAUTION!

- Towing the vehicle, coasting, or driving for any other reason with the transmission in NEUTRAL can cause severe transmission damage.
- Refer to “Recreational Towing” in “Starting And Operating” or “Towing A Disabled Vehicle” in “In Case Of Emergency” in the Owner’s Manual for further information.

DRIVE (D)

This range should be used for most city and highway driving. It provides the smoothest upshifts and downshifts, and the best fuel economy. The transmission automatically upshifts through all forward gears. The DRIVE position should be used for all normal operating conditions.

When frequent transmission shifting occurs (such as when operating the vehicle under heavy loading conditions, in hilly terrain, traveling into strong head winds, or while towing a heavy trailer), use the AutoStick shift control to select a lower gear ⇨ page 12. Under these conditions, using a lower gear will improve performance and extend transmission life by reducing excessive shifting and heat build-up.

During extremely cold temperatures (-22°F [-30°C] or below), transmission operation may be modified depending on engine and transmission temperature as well as vehicle speed. Normal operation will resume once the transmission temperature has risen to a suitable level.

MANUAL (M)

The MANUAL (M, +/-) position (beside the DRIVE position) enables full manual control of transmission shifting also known as AutoStick mode. Toggling the gear selector forward (-) or rearward (+) while in the MANUAL (AutoStick) position will manually select the transmission gear, and will display the current gear in the instrument cluster ⇨ page 12.

Transmission Limp Home Mode

Transmission function is monitored electronically for abnormal conditions. If a condition is detected that could result in transmission damage, Transmission Limp Home Mode is activated. In this mode, the transmission may operate only in certain gears, or may not shift at all. Vehicle performance may be severely degraded and the engine may stall. In some situations, the transmission may not re-engage if the engine is turned off and restarted. The Malfunction Indicator Light (MIL) may be illuminated. A message in the instrument cluster will inform the driver of the more serious conditions, and indicate what actions may be necessary.

In the event of a momentary problem, the transmission can be reset to regain all forward gears by performing the following steps:

NOTE:

- In cases where the instrument cluster message indicates the transmission may not re-engage after engine shutdown, perform this procedure only in a desired location (preferably, at an authorized dealer).
- Even if the transmission can be reset, we recommend that you visit an authorized dealer at your earliest possible convenience. Authorized dealers have diagnostic equipment to assess the condition of your transmission.

- If the transmission cannot be reset, authorized dealer service is required.

1. Stop the vehicle.
2. Shift the transmission into PARK, if possible. If not, shift the transmission to NEUTRAL.
3. Push and hold the ignition switch until the engine turns off.
4. Wait approximately 30 seconds.
5. Restart the engine.
6. Shift into the desired gear range. If the problem is no longer detected, the transmission will return to normal operation.

AutoStick

AutoStick is a driver-interactive transmission feature providing manual shift control, giving you more control of the vehicle. AutoStick allows you to maximize engine braking, eliminate undesirable upshifts and downshifts, and improve overall vehicle performance. This system can also provide you with more control during passing, city driving, cold slippery conditions, mountain driving, trailer towing, and many other situations.

Steering Wheel Mounted Paddle Shifters

1 — (-) Shift Paddle
2 — (+) Shift Paddle

Operation

In AutoStick mode, you can use the gear selector (in the MANUAL position), or the shift paddles, to manually shift the transmission. To activate AutoStick mode, move the gear selector into the MANUAL (M) position (beside the DRIVE position), or tap one of the shift paddles on the steering wheel. Tapping the (-) shift paddle to enter AutoStick mode will downshift the transmission to the next lower gear, while tapping (+) to enter AutoStick mode will retain the current gear. The current transmission gear will be displayed in the instrument cluster.

AutoStick mode has the following operational benefits:

- The transmission will automatically downshift as the vehicle slows (to prevent engine lugging) and will display the current gear.
- The transmission will automatically downshift to FIRST gear when coming to a stop. After a stop, the driver should manually upshift (+) the transmission as the vehicle is accelerated.
- You can start out, from a stop, in FIRST or SECOND gear (or THIRD gear, in 4WD Low range). Tapping (+) (at a stop) will allow starting in SECOND gear. Starting out in SECOND or THIRD gear can be helpful in snowy or icy conditions.
- If a requested downshift would cause the engine to over-speed, that shift will not occur.
- The system will ignore attempts to upshift at too low of a vehicle speed.

- Holding the (-) paddle pressed (if equipped), or holding the gear selector in the (-) position, will downshift the transmission to the lowest gear possible at the current speed.
- Transmission shifting will be more noticeable when AutoStick is enabled.
- The system may revert to automatic shift mode if a fault or overheat condition is detected.

NOTE:
When Selec-Speed Control is enabled, AutoStick is not active.

To disengage AutoStick, return the gear selector to the DRIVE position, or press and hold the (+) shift paddle (and the gear selector is already in DRIVE) until "D" is once again indicated in the instrument cluster. You can shift in or out of AutoStick at any time without taking your foot off the accelerator pedal.

WARNING!
Do not downshift for additional engine braking on a slippery surface. The drive wheels could lose their grip and the vehicle could skid, causing a collision or personal injury.

TORQUE RESERVE

Torque Reserve is automatically enabled while staging a Brake Torque Launch, to reduce the time required for the intake system to fill with air. Torque Reserve provides greater engine airflow than is otherwise required, stops fuel flow to multiple cylinders and retards spark as necessary to hold the torque from the extra airflow "in reserve". As soon as the driver launches the car, fuel flow is restored and spark is advanced to instantaneously deliver the reserve torque. For a given launch engine speed, additional torque is delivered more quickly than is possible without Torque Reserve.

NOTE:
Due to the way the engine is controlled during Torque Reserve, a distinct exhaust note is produced and engine vibration increases.

DUAL MODE EXHAUST

This vehicle is equipped with a dual-mode exhaust, designed to provide both quiet cruising and sporty sound. The system has two modes, Performance Exhaust ON and Performance Exhaust OFF. A button on the dashboard can be used to toggle between settings, and the light illuminates when "Performance Exhaust ON" mode is active. In this mode, the exhaust valves are commanded fully open to deliver a deep, sporty sound. A message appears momentarily in the instrument cluster whenever the exhaust mode changes. When the "Performance Exhaust OFF" setting is active, the exhaust valves are closed except at high engine speeds and loads, when they are commanded open without notification.

Dual Mode Exhaust Button

The exhaust system has a default setting for each vehicle drive mode. In 4H AUTO, 4H PT, 4L, and ROCK mode, Performance Exhaust is OFF by default; however, if Performance Exhaust ON is activated by pressing the exhaust button, this setting will be saved after changing drive modes and after restarting the engine.

FOUR–WHEEL DRIVE OPERATION

WARNING!

Failure to engage a transfer case position completely can cause transfer case damage or loss of power and vehicle control. You could have a collision. Do not drive the vehicle unless the transfer case is fully engaged.

FOUR-POSITION TRANSFER CASE

Four-Wheel Drive Gear Selector

The transfer case provides four mode positions:

- 4H AUTO (4WD High AUTO) — Four-Wheel Drive Auto High Range
- 4H PT (4WD High PT) — Four-Wheel Drive Part Time High Range
- N (Neutral)
- 4L (4WD Low) — Four-Wheel Drive Low Range

For additional information on the appropriate use of each transfer case mode position, see the information below:

4WD High AUTO

Four-Wheel Drive Auto High Range — This range is for normal street and highway driving on dry, hard surfaced roads. This range sends power to the front wheels. The four-wheel drive system will be automatically engaged when the vehicle senses a loss of traction to optimize traction for varying road conditions.

4WD High PT

Four-Wheel Drive Part Time High Range — This range maximizes torque to the front driveshaft, forcing the front and rear wheels to rotate at the same speed. This range provides additional traction for loose, slippery road surfaces only.

N (Neutral)

WARNING!

You or others could be injured or killed if you leave the vehicle unattended with the transfer case in the (N) Neutral position without first fully engaging the parking brake. The transfer case (N) Neutral position disengages both the front and rear driveshafts from the powertrain, and will allow the vehicle to roll, even if the automatic transmission is in PARK. The parking brake should always be applied when the driver is not in the vehicle.

Neutral — This range disengages both the front and rear driveshafts from the powertrain. To be used for flat towing behind another vehicle. Refer to “Recreational Towing” in “Starting And Operating” in the Owner’s Manual for further information.

4WD Low

Four-Wheel Drive Low Range — This range provides low speed four-wheel drive. It maximizes torque to the front driveshaft, forcing the front and rear wheels to rotate at the same speed. This range provides additional traction and maximum pulling power for loose, slippery

road surfaces only. Do not exceed 25 mph (40 km/h).

This transfer case is designed to be driven in the four-wheel drive position (4WD AUTO) for normal street and highway conditions on dry hard surfaced roads.

For variable driving conditions, the 4WD AUTO mode can be used. In this mode, the front axle is engaged, but the majority of the vehicle's power is sent to the rear wheels. Four-wheel drive is automatically engaged when the vehicle senses a loss of traction and more torque is transferred to the front axle.

In the event that additional traction is required, the transfer case 4WD High and 4WD Low positions can be used to lock the front and rear driveshafts together, forcing the front and rear wheels to rotate at the same speed. The 4WD High and 4WD Low positions are intended for loose, slippery road surfaces only and not intended for normal driving. Driving in the 4WD High and 4WD Low positions on hard-surfaced roads will cause increased tire wear and damage to the driveline components. Refer to “Shifting Procedures” in this section for further information on shifting into 4WD High or 4WD Low.

The instrument cluster alerts the driver that the vehicle is in four-wheel drive, and the front and rear driveshafts are locked together. The light will illuminate when the transfer case is shifted into the 4WD High position.

When operating your vehicle in 4WD Low, the engine speed will be approximately four times that of the 4WD High position at a given road speed. Take care not to overspeed the engine.

Proper operation of four-wheel drive vehicles depends on tires of equal size, type, and circumference on each wheel. Any difference will adversely affect shifting and cause damage to the transfer case.

Because four-wheel drive provides improved traction, there is a tendency to exceed safe turning and stopping speeds. Do not go faster than road conditions permit.

Shifting Procedures

4WD High AUTO To 4WD High PT Or 4WD High PT To 4WD High AUTO

Shifting between 4WD High AUTO to 4WD High PT can be made with the vehicle stopped or in motion. The preferred shifting speed would be 0 to 45 mph (72 km/h). With the vehicle in motion, the transfer case will engage/disengage faster if you momentarily release the accelerator pedal after completing the shift. Do not accelerate while shifting the transfer case. Apply a constant force when shifting the transfer case lever.

NOTE:

- Do not attempt to make a shift while only the front or rear wheels are spinning. The front and rear driveshaft speeds must be equal for the shift to take place. Shifting while only the front or rear wheels are spinning can cause damage to the transfer case.
- Delayed shifts out of four-wheel drive may be experienced due to uneven tire wear, low or uneven tire pressures, excessive vehicle loading, or cold temperatures.
- Shifting effort will increase with speed, this is normal.

During cold weather, you may experience increased effort in shifting until the transfer case fluid warms up. This is normal.

4WD High PT/4WD High AUTO To 4WD Low Or 4WD Low To 4WD High PT/4WD High AUTO

With the vehicle rolling at 2 to 3 mph (3 to 5 km/h), shift the transmission into NEUTRAL (N). While the vehicle is coasting at 2 to 3 mph (3 to 5 km/h), shift the transfer case lever firmly to the desired position. Do not pause with the transfer case in N (Neutral). Once the shift is completed, place the transmission into DRIVE.

NOTE:
Shifting into or out of 4WD Low is possible with the vehicle completely stopped; however, difficulty may occur due to the mating teeth not being properly aligned. Several attempts may be required for clutch teeth alignment and shift completion to occur. The preferred method is with the vehicle rolling at 2 to 3 mph (3 to 5 km/h). Avoid attempting to engage or disengage 4WD Low with the vehicle moving faster than 2 to 3 mph (3 to 5 km/h).

WARNING!

Failure to engage a transfer case position completely can cause transfer case damage or loss of power and vehicle control. You could have a collision. Do not drive the vehicle unless the transfer case is fully engaged.

FUEL SAVER TECHNOLOGY 6.4L

This feature offers improved fuel economy by shutting off four of the engine's eight cylinders during light load and operation. The system is automatic with no driver inputs. It is not available in 4WD Low. There is also a four cylinder indicator in the instrument cluster to indicate when this feature is active.

NOTE:
This system may take some time to return to full functionality after a battery disconnect.

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.

TRAILER TOWING WEIGHTS (MAXIMUM TRAILER WEIGHT RATINGS)

Engine/ Transmission	Model	GCWR (Gross Combined Wt. Rating)	Frontal Area	Max. GTW (Gross Trailer Wt.)	Max. Trailer Tongue Wt. (See Note)
6.4L	Four–Door	8,117 lb (3,682 kg)	30 ft2 (2.79 m2)	3,500 lb (1,587 kg)	350 lb (158 kg)
Refer to local laws for maximum trailer towing speeds.					

SERVICING AND MAINTENANCE

SCHEDULED SERVICING

The Scheduled Maintenance services listed in this manual must be done at the times or mileages specified to protect the vehicle warranty and ensure the best vehicle performance and reliability. More frequent maintenance may be needed for vehicles in severe operating conditions, such as dusty areas and very short trip driving. Inspection and service should also be done anytime a malfunction is suspected.

The oil change indicator system will remind you that it is time to take your vehicle in for scheduled maintenance.

The instrument cluster display will display an "Oil Change Required" message and a single chime will sound, indicating that an oil change is necessary.

Based on engine operation conditions, the oil change indicator message will illuminate. This means that service is required for your vehicle. Have your vehicle serviced as soon as possible, within the next 500 miles (805 km).

NOTE:

- The oil change indicator message will not monitor the time since the last oil change. Change your vehicle's oil if it has been six months since your last oil change, even if the oil change indicator message is NOT illuminated.
- Change your engine oil more often if you drive your vehicle off-road for an extended period of time.
- Under no circumstances should oil change intervals exceed 6,000 miles (10,000 km) or 6 months, whichever comes first.

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. Refer to "Instrument Cluster Display" in "Getting To Know Your Instrument Panel" in the Owner's Manual for further information.

At Each Stop For Fuel

- Check the engine oil level.
- Check the windshield washer solvent and add if required.

Once A Month

- Check tire pressure and look for unusual wear or damage.
- Inspect the battery, and clean and tighten the terminals as required.
- Check the fluid levels of the coolant reservoir, engine oil, brake master cylinder, and add as needed.
- Check all lights and other electrical items for correct operation.

At Each Oil Change

- Change the engine oil filter.
- Inspect the brake hoses and lines.
- Inspect the CV/Universal joints.

CAUTION!
Failure to perform the required maintenance items may result in damage to the vehicle.

MAINTENANCE PLAN

Miles:	6,000	12,000	18,000	24,000	30,000	36,000	42,000	48,000	54,000	60,000	66,000	72,000	78,000	84,000	90,000	96,000	102,000	108,000	114,000	120,000	126,000	132,000	138,000	144,000	150,000
Or Months:	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138	144	150
Or Kilometers:	10,000	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	160,000	170,000	180,000	190,000	200,000	210,000	220,000	230,000	240,000	250,000
Change the engine oil and engine oil filter.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Rotate the tires, rotate at the first sign of irregular wear, even if it occurs before scheduled maintenance.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Miles:	6,000	12,000	18,000	24,000	30,000	36,000	42,000	48,000	54,000	60,000	66,000	72,000	78,000	84,000	90,000	96,000	102,000	108,000	114,000	120,000	126,000	132,000	138,000	144,000	150,000
Or Months:	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138	144	150
Or Kilometers:	10,000	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	160,000	170,000	180,000	190,000	200,000	210,000	220,000	230,000	240,000	250,000
If using your vehicle for any of the following: dusty or off-road conditions. Inspect the engine air cleaner filter; replace if necessary.		X		X		X		X		X		X		X		X		X		X		X		X	
Inspect the brake linings; replace if necessary.		X		X		X		X		X		X		X		X		X		X		X		X	
Inspect the CV/ Universal joints.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Inspect the exhaust system.		X		X		X		X		X		X		X		X		X		X		X		X	
Adjust the parking brake on vehicles equipped with four wheel disc brakes.					X					X					X					X						X

Miles:	6,000	12,000	18,000	24,000	30,000	36,000	42,000	48,000	54,000	60,000	66,000	72,000	78,000	84,000	90,000	96,000	102,000	108,000	114,000	120,000	126,000	132,000	138,000	144,000	150,000
Or Months:	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138	144	150
Or Kilometers:	10,000	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	160,000	170,000	180,000	190,000	200,000	210,000	220,000	230,000	240,000	250,000
Drain the transfer case and refill.					X					X					X					X					X
Inspect the accessory drive belts replace if necessary.										X										X					
Inspect the front and rear axle fluid. Change if using your vehicle for any of the following: police, taxi, fleet, sustained high speed driving, off-road or frequent trailer towing.				X				X				X				X				X				X	

Miles:	6,000	12,000	18,000	24,000	30,000	36,000	42,000	48,000	54,000	60,000	66,000	72,000	78,000	84,000	90,000	96,000	102,000	108,000	114,000	120,000	126,000	132,000	138,000	144,000	150,000
Or Months:	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138	144	150
Or Kilometers:	10,000	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	160,000	170,000	180,000	190,000	200,000	210,000	220,000	230,000	240,000	250,000
Inspect front suspension, tie rod ends, and boot seals, for cracks or leaks and all parts for damage, wear, improper looseness or end play; replace if necessary.		X		X		X		X		X		X		X		X		X		X		X		X	
Replace the engine air cleaner filter.					X					X					X					X						X
Replace the air conditioning filter.				X				X				X				X				X				X	
Inspect and replace the PCV Valve if necessary.															X										
Replace the spark plugs – 6.4L Engine. [1]																X									

Miles:	6,000	12,000	18,000	24,000	30,000	36,000	42,000	48,000	54,000	60,000	66,000	72,000	78,000	84,000	90,000	96,000	102,000	108,000	114,000	120,000	126,000	132,000	138,000	144,000	150,000
Or Months:	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138	144	150
Or Kilometers:	10,000	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	160,000	170,000	180,000	190,000	200,000	210,000	220,000	230,000	240,000	250,000
Flush and replace the engine coolant at 120 months if not done at 150, 000 miles (240, 000 km).																				X					X

1. The spark plug change interval is mileage based only, monthly 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.

(Continued)

WARNING! *(Continued)*

- 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.

ENGINE COMPARTMENT

6.4L ENGINE

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

VEHICLE MAINTENANCE

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

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. For the proper engine oil selection ⇨ page 38.

NOTE:
Hemi engines (6.4L) at times can tick right after startup and then quiet down after approximately 30 seconds. This is normal and will not harm the engine. This characteristic can be caused by short drive cycles. For example, if the vehicle is started then shut off after driving a short distance. Upon restarting, you may experience a ticking sound. Other causes could be if the vehicle is unused for an extended period of time, incorrect oil, extended oil changes or extended idling. If the engine continues to tick or if the Malfunction Indicator Light (MIL) comes on, see the nearest authorized dealer.

CAUTION!

Do not use chemical flushes in your engine oil as the chemicals can damage your engine. Such damage is not covered by the New Vehicle Limited Warranty.

American Petroleum Institute (API) Engine Oil Identification Symbol

his symbol means that the oil has been certified by the American Petroleum Institute (API). FCA only recommends API Certified engine oils.

This symbol certifies 0W-20, 5W-20, 0W-30, 5W-30 and 10W-30 engine oils.

CAUTION!

Do not use chemical flushes in your engine oil as the chemicals can damage your engine. Such damage is not covered by the New Vehicle Limited Warranty.

Synthetic Engine Oils

You may use synthetic engine oils provided the recommended oil quality requirements are met, and the recommended maintenance intervals for oil and filter changes are followed.

Synthetic engine oils which do not have both the engine oil certification mark and the correct SAE viscosity grade number should not be used.

Materials Added To Engine Oil

FCA 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 AIR CLEANER

For the proper maintenance intervals
⇨ page 19.

WARNING!

The air induction system (air cleaner, hoses, etc.) can provide a measure of protection in the case of engine backfire. Do not remove the air induction system (air cleaner, hoses, etc.) unless such removal is necessary for repair or maintenance. Make sure that no one is near the engine compartment before starting the vehicle with the air induction system (air cleaner, hoses, etc.) removed. Failure to do so can result in serious personal injury.

Engine Air Cleaner Selection

The quality of replacement engine air cleaners varies considerably. Only high quality Mopar® filters should be used.

First Water Separation Chamber Removal

The vehicle is equipped with a hood duct system for filtering out water, dirt and debris to keep them out of the engine air cleaner filter. The first water separation chamber can be removed for cleaning if necessary.

Removal

1. Loosen the six captured fasteners from the first water separation chamber using a suitable tool.

First Water Separation Chamber

1 — Captured Fasteners

NOTE:
The captured fasteners are made to stay with the first water separation chamber and must NOT be removed.

2. Pull on the hood duct at the top to disengage the push pin clip along with the rubber grommet and remove from vehicle.

First Water Chamber Removal

Installation

NOTE:
Inspect and clean the housing if dirt or debris is present before replacing.

1. Locate the first water separation chamber to hood/second chamber then engage the push pin clip and grommet.

First Water Separation Chamber

1 — Push Pin
2 — Grommet (On The Backside)

NOTE:
Both components should click in. The cone shaped to the second chamber can aid in locating parts.

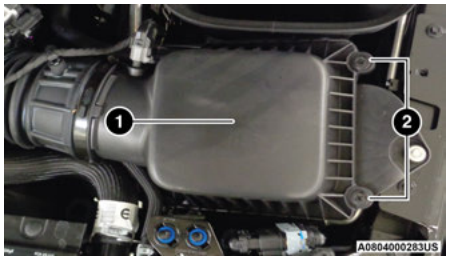
2. Hand start the six captured fasteners.
3. Tighten the captured fasteners, do not over-tighten.

Engine Air Cleaner Inspection and Replacement

Follow the recommended maintenance intervals as shown in the Maintenance Schedule in this section.

Engine Air Cleaner Removal

1. Loosen the fasteners from the air cleaner cover using a suitable tool.



Engine Air Cleaner Cover

1 — Engine Air Cleaner Cover
2 — Fasteners

2. Lift the engine air cleaner cover to access the engine air cleaner.
3. Remove the engine air cleaner from the housing assembly.

Engine Air Cleaner Installation

NOTE:
Inspect and clean the housing if dirt or debris is present before replacing the engine air cleaner.

1. Install the engine air cleaner into the housing assembly with the engine air cleaner inspection surface facing downward.
2. Tighten engine air cleaner cover fasteners using a suitable tool.

FUSES

General Information

WARNING!

- When replacing a blown fuse, always use an appropriate replacement fuse with the same amp rating as the original fuse. Never replace a fuse with another fuse of higher amp rating. Never replace a blown fuse with metal wires or any other material. Failure to use proper fuses may result in serious personal injury, fire and/or property damage.
- Before replacing a fuse, make sure that the ignition is off and that all the other services are switched off and/or disengaged.
- If the replaced fuse blows again, contact an authorized dealer.
- If a general protection fuse for safety systems (air bag system, braking system), power unit systems (engine system, gearbox system) or steering system blows, contact an authorized dealer.

The fuses protect electrical systems against excessive current.

When a device does not work, you must check the fuse element inside the blade fuse for a break/melt.

Also, please be aware that when using power outlets for extended period of time with the engine off, may result in vehicle battery discharge.

Power Distribution Center (PDC)

The Power Distribution Center is located in the engine compartment near the battery. This center contains cartridge fuses, mini fuses, and relays. The PDC top cover is labeled with each serviceable fuse/relay location, function, and size.

Power Distribution Center

Cavity	Cartridge Fuse	Micro Fuse	Description
F01	–	–	Spare
F02	40 Amp Green	–	Starter
F03	–	5 Amp Tan	Intelligent Battery Sensor (IBS)
F04	–	25 Amp Clear	Fuel Pump MTR/FPCM
F05	–	5 Amp Tan	Security Gateway
F06	–	–	Spare
F07	–	15 Amp Blue	Low Temp Radiator Cooling Pump (LTR) — If Equipped
F08	–	15 Amp Blue	Trans Control Module TCM-8HP CYGNUS
F09	–	–	Spare
F10	–	15 Amp Blue	Key Ignition Node (KIN)/Radio Frequency Hub (RF HUB)/ Electric Steering Column Lock (ESCL)
F11	–	10 Amp Red	UCI Port (USB & AUX)
F12	–	25 Amp Clear	HIFI Amplifier
F13	–	–	Spare
F14	–	–	Spare
F15	–	15 Amp Blue	Instrument Panel Cluster (IPC)/Switch Bank-Heavy Duty Electrical Pkg (SWITCH BANK-HD ELEC)
F16	–	–	Spare
F17	–	–	Spare
F18	–	10 Amp Red	Air Conditioning Clutch (AC CLUTCH)

Cavity	Cartridge Fuse	Micro Fuse	Description
F19	–	–	Spare
F20	30 Amp Pink	–	Central Body Controller (CBC) 1-INTERIOR LIGHTS
F21	–	20 Amp Yellow	REAR WIPER
F22	–	10 Amp Red	Engine Control Module (ECM)/Powertrain Control Module (PCM)/Motor Generator Unit (MGU) WAKE UP/Power Pack Unit (PPU) WAKE UP
F23	–	10 Amp Red	Powertrain Control Module (PCM)/Engine Control Module (ECM)
F24	–	–	Spare
F25	–	10 Amp Red	Module Shift By Wire (MOD_SBW)
F26	40 Amp Green	–	Central Body Controller (CBC) 2-EXTERIOR LIGHTS #1
F27	30 Amp Pink	–	Front Wipers
F28	40 Amp Green	–	Central Body Controller (CBC) 3-POWER LOCKS
F29	40 Amp Green	–	Central Body Controller (CBC) 4-EXTERIOR LIGHTS #2
F30	–	–	Spare
F31	–	10 Amp Red	DIAGNOSTIC PORT
F32	–	10 Amp Red	Heating Ventilation Air Conditioning Mod (HVAC CTRL MOD)/Steering Column Lock (SCL)/Occupant Classification Module (OCM)/Driver Presence Detection Module (DPDM)
F33	–	10 Amp Red	ParkTronics System (PTS)/Infrared Camera Module (IRCM)/Airbag Disable Lamps (AIRBAG DISABLE LMPS)

Cavity	Cartridge Fuse	Micro Fuse	Description
F34	–	10 Amp Red	Electronic Stability Control (ESC)/Electric Hydraulic Power Steering (EHPS)/Smart Bar Control Module (SBCM) WAKE UP
F35	30 Amp Pink	–	BRAKE VAC PMP — If Equipped
F36	30 Amp Pink	–	TRAILER TOW MOD — If Equipped
F37	30 Amp Pink	–	TRAILER TOW CONN 7W — If Equipped
F38	20 Amp Blue	–	Engine Control Module (ECM)
F39	–	15 Amp Blue	MGU Coolant Pump (3.6) — If Equipped
F40	–	15 Amp Blue	DriveTrain Control Module (DTCM)/Axle Lock (AXLE LOC) FT_RR
F41	–	15 Amp Blue	Instrument Cluster (IC)/Security GateWay (SGW) WAKE UP
F42	–	10 Amp Red	Power Control Relay Control Feed (Electric Stop/Start)/ Spare (Belt Starter Generator) – If Equipped
F43	–	20 Amp Yellow	PWR OUTLET (CARGO) BATT
F44	–	10 Amp Red	InfraRed Camera (IRCAM) HEATERS
F45	–	20 Amp Yellow	PWR OUTLET (CARGO) IGN
F46	–	10 Amp Red	AUTO HDLP LVL MOD/LVL MTR/HDLP SW
F47	–	–	Spare
F48	–	–	Spare
F49	–	10 Amp Red	Occupant Restraint Controller (ORC)

Cavity	Cartridge Fuse	Micro Fuse	Description
F50	–	10 Amp Red	HD ACC — If Equipped
F51	–	10 Amp Red	Digital TV (DSRC)/USB/InSide RearView Mirror (ISRVM)/ Compass Module (CSGM)
F52	–	20 Amp Yellow	CIGAR LTR
F53	–	–	Spare
F54	–	–	Spare
F55	–	10 Amp Red	Central Vision Processing Module (CVPM)
F56	–	10 Amp Red	IN-CAR TEMP SENSOR
F57	–	20 Amp Yellow	Front Driver Heated Seat
F58	–	20 Amp Yellow	Front Pass Heated Seat
F59	–	–	Spare
F60	–	15 Amp Blue	Comfort Steering Wheel Module (CSWM) (HTD STR WHEEL)
F61	–	10 Amp Red	Left Blind Spot Sensor (LBSS)/Right Blind Spot Sensor (RBSS)
F62	–	–	Spare
F63	–	10 Amp Red	Occupant Restraint Controller (ORC)
F64	–	–	Spare
F65	–	–	Spare
F66	40 Amp Green	–	HVAC BLOWER MTR Front
F67	–	–	Spare

Cavity	Cartridge Fuse	Micro Fuse	Description
F68	–	–	Spare
F69	–	5 Amp Tan	Motor Generator Unit MGU Belt Starter Generator (BSG) — If Equipped
F70	–	25 Amp Clear	INJ/IGN COIL (GAS)/GLO PLUG MOD (DSL)
F71	–	–	Spare
F72	–	10 Amp Red	HD ELEC ACC PKG — If Equipped
F73	20 Amp Blue	–	PWR TOP LT
F74	20 Amp Blue	–	PWR TOP RT
F75	–	10 Amp Red	Power Pack Unit - Battery Pack Control Module & Auxiliary Power Module (PPU-BPCM & APM) Belt Starter Generator (BSG) — If Equipped
F76	–	20 Amp Yellow	ECM (GAS)/PCM (DSL)
F77	–	10 Amp Red	HEATED MIRRORS
F78	–	10 Amp Red	COMP/INTRUSION/SIREN/INTRUSION SENSORS
F79	–	20 Amp Yellow	SMART BAR CTRL MOD
F80	–	15 Amp Blue	Powertrain Control Module (PCM)
F81	30 Amp Pink	–	REAR DEFROSTER (EBL)
F82	30 Amp Pink	–	FUEL HTR — If Equipped
F83	60 Amp Yellow	–	GLOW PLUG — If Equipped
F84	30 Amp Pink	–	UREA HTR CTRL UNIT — If Equipped
F85	–	10 Amp Red	PM SENSOR — If Equipped

Cavity	Cartridge Fuse	Micro Fuse	Description
F86	30 Amp Pink	–	BRAKE VAC PMP 2 — If Equipped
F87	–	10 Amp Red	SUPPLY/PURGING PMP — If Equipped
F88	20 Amp Blue	–	NOx SENSOR #1/ #2 — IF Equipped
F89	–	10 Amp Red	Steering Column Control Module (SCCM)/ Cruise Control (CRUISE CTL)/Digital TV (DTV)
F90	20 Amp Blue	–	TRAILER TOW PARK LMP — If Equipped
F91	–	20 Amp Yellow	HORN
F92	40 Amp Green	–	HD ACCY #2 — If Equipped
F93	40 Amp Green	–	HD ACCY #1 — If Equipped
F94	–	10 Amp Red	Tire Pressure Monitor (TPM)/RF Hub system (CORAX)
F95	–	–	Spare
F96	–	10 Amp Red	PWR MIRROR SW
F97	–	20 Amp Yellow	RADIO/TBM
F98	–	10 Amp Red	SW BANK-HD ELEC/OFF ROAD
F99	–	–	Spare
F100	30 Amp Pink	–	ESC-ECU & VALVES
F101	30 Amp Pink	–	DriveTrain Control Module (DTCM)
F102	–	15 Amp Blue	DUAL USB PORT
F103	–	15 Amp Blue	HD ACCY #3 — If Equipped
F104	–	15 Amp Blue	PPU COOL PUMP — If Equipped

Cavity	Cartridge Fuse	Micro Fuse	Description
F105	–	10 Amp Red	Integrated Center Stack (ICS)/Heat Ventilation Air Conditioning (HVAC)
F106	50 Amp Red	–	Electronic Speed Control (ESC)-PUMP MTR
F107	–	20 Amp Yellow	TRAILER TOW STOP/TURN LT — If Equipped
F108	–	15 Amp Blue	HD ACCY #4 — If Equipped
F109	–	20 Amp Yellow	TRAILER TOW STOP/TURN RT — If Equipped
F110	30 Amp Pink	–	POWER INVERTER
F111	20 Amp Blue	–	TRAILER TOW BACKUP — If Equipped

Customer can select to switch the Cargo Power Outlet from F43 battery fed power to this position F45 which is fed when the ignition in ON.

CAUTION!

- When installing the power distribution center cover, it is important to ensure the cover is properly positioned and fully latched. Failure to do so may allow water to get into the power distribution center and possibly result in an electrical system failure.

(Continued)

CAUTION! *(Continued)*

- When replacing a blown fuse, it is important to use only a fuse having the correct amperage rating. The use of a fuse with a rating other than indicated may result in a dangerous electrical system overload. If a properly rated fuse continues to blow, it indicates a problem in the circuit that must be corrected.

TECHNICAL SPECIFICATIONS

FUEL REQUIREMENTS — GASOLINE ENGINE

While operating on gasoline with the required octane number, hearing a light knocking sound from the engine is not a cause for concern. However, if the engine is heard making a heavy knocking sound, see a dealer immediately. Use of gasoline with an octane number lower than recommended octane can cause engine failure and may void the New Vehicle Limited Warranty.

Poor quality gasoline can cause problems such as hard starting, stalling, and hesitations. If you experience these symptoms, try another brand of gasoline before considering service for the vehicle.

6.4L ENGINE

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

These engines are designed to meet all emissions 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 these engines.

FLUID CAPACITIES

	US	Metric
Fuel (Approximate)		
Four Door Models	21.5 Gallons	81 Liters
Engine Oil with Filter		
6.4L Engine	7.0 Quarts	6.6 Liters
Cooling System *		
6.4L Engine	16 Quarts	15.5 Liters
* Includes coolant recovery bottle filled to MAX level.		

ENGINE FLUIDS AND LUBRICANTS

Component	Fluid, Lubricant, or Genuine Part
Engine Coolant	We recommend you use Mopar® Antifreeze/Coolant 10 Year/150,000 Mile (240,000 km) Formula OAT (Organic Additive Technology) or equivalent meeting the requirements of FCA Material Standard MS.90032.
Engine Oil — 6.4L Engine	For best performance and maximum protection under all types of operating conditions, FCA only recommends full synthetic engine oils that meet the American Petroleum Institute (API) categories of SN. FCA recommends the use of Pennzoil Ultra 0W-40 or equivalent Mopar® engine oil meeting the requirements of FCA Material Standard MS-12633 for use in all operating temperatures.
Engine Oil Filter	We recommend you use Mopar® Engine Oil Filter or equivalent.
Fuel Selection — 6.4L Engine	Premium Unleaded 91 Octane Only or Higher (R+M)/2 Method, 0-15% Ethanol (Do Not Use E-85).

CAUTION!

- 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.

(Continued)

CAUTION! *(Continued)*

- This vehicle has not been designed for use with propylene glycol-based engine coolant (antifreeze). Use of propylene glycol-based engine coolant (antifreeze) is not recommended.

5

CHASSIS FLUIDS AND LUBRICANTS

Component	Fluid, Lubricant, or Genuine Part
Automatic Transmission – If Equipped	Use only Mopar® ZF 8&9 Speed Automatic Transmission Fluid (ATF) or equivalent. Failure to use the correct fluid may affect the function or performance of your transmission.
Transfer Case	We recommend you use Mopar® ATF+4 Automatic Transmission Fluid.
Front Axle Differential	We recommend you use Mopar® Gear & Axle Lubricant (SAE 75W85)(API GL-5)
Rear Axle Differential (M200 Sales Code DRZ)	We recommend you use Mopar® Gear & Axle Lubricant (SAE 75W140)(API GL-5).
Rear Axle Differential (M220 Sales Codes DRE/DRF)	We recommend you use Mopar® Gear & Axle Lubricant (SAE 75W85)(API GL-5). Models equipped with Trac-Lok Limited Slip Differential require a friction modifier additive.
Brake Master Cylinder	We recommend you use Mopar® DOT 3 Brake Fluid, SAE J1709.
Power Steering Reservoir	We recommend you use Mopar® Electric Steering Pump Fluid.

INDEX

Jeep

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.

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