

21 - Transmission and Transfer Case / Automatic - 8HP50/850RE / FLUID and FILTER / Standard Procedure

CHECK FLUID LEVEL



To properly check and fill the transmission, perform the following procedure:

WARNING: There is a risk of accident from vehicle moving when the engine is running. Secure vehicle to prevent it from moving. There is a risk of injury from contusions and burns if you insert your hands into the engine when it is running. Do not touch hot or rotating parts. Wear properly fitted work clothes.

CAUTION: A unique transmission fluid has been developed for this transmission. This fluid is NOT compatible with ATF+4 or any other current FCA US LLC transmission fluid. For specifics about this unique fluid see FLUIDS, LUBRICANTS AND GENUINE PARTS .

NOTE: Oil dye is not required to find leaks in the 8HP transmission. The oil dye can cause shift quality issues and is not recommended. The 8HP fluid has illuminance that is visible under a black light.

1. Raise and support the vehicle **on a level hoist**([Refer to 04 - Vehicle Quick Reference/Hoisting - Standard Procedure](#)).

2. Start the engine. The engine must continue to run for the entire test.
3. Using a scan tool or the vehicle information center, verify that the transmission fluid temperature is below 30°C (86°F).
4. Disable Electronic Stability Control (ESC).

5. Remove the fill plug (2) from the right rear of the transmission case.



6. Add transmission fluid until it trickles from the fill opening.
7. Install the fill plug.
8. Lower the vehicle for access to inside of the vehicle, leaving the tires at least 8 inches off the ground.
9. With the brakes applied, place the transmission in REVERSE and hold for 5 seconds.
10. Place the transmission in DRIVE and hold for 5 seconds.
11. Release the brakes, slowly accelerate to 2nd gear and hold for 5 seconds.
12. Apply the brakes and place the transmission in NEUTRAL.
13. Raise the engine speed to 2000 RPM for 5 seconds.
14. Return the engine to idle and place the transmission in PARK.

NOTE: A full transmission will have fluid at the fill hole with the transmission between 30°C (86°F) and 50°C (122°F). Do not over fill.

15. Remove the fill plug and allow excess fluid to drain from fill hole or add fluid as necessary.

16. Install the fill plug and tighten to the proper [\(Torque Specifications\)](#).
17. Remove the support and lower the vehicle.
18. Using a scan tool, clear any DTCs.