



FLUID/FILTER SERVICE

AUTOMATIC TRANSMISSION - 8-SPEED AUTOMATIC TorqueFlite

Use only Mopar Automatic Transmission Fluid (ATF) 818, or equivalent.

Failure to use the correct fluid may affect the function or performance of your transmission.

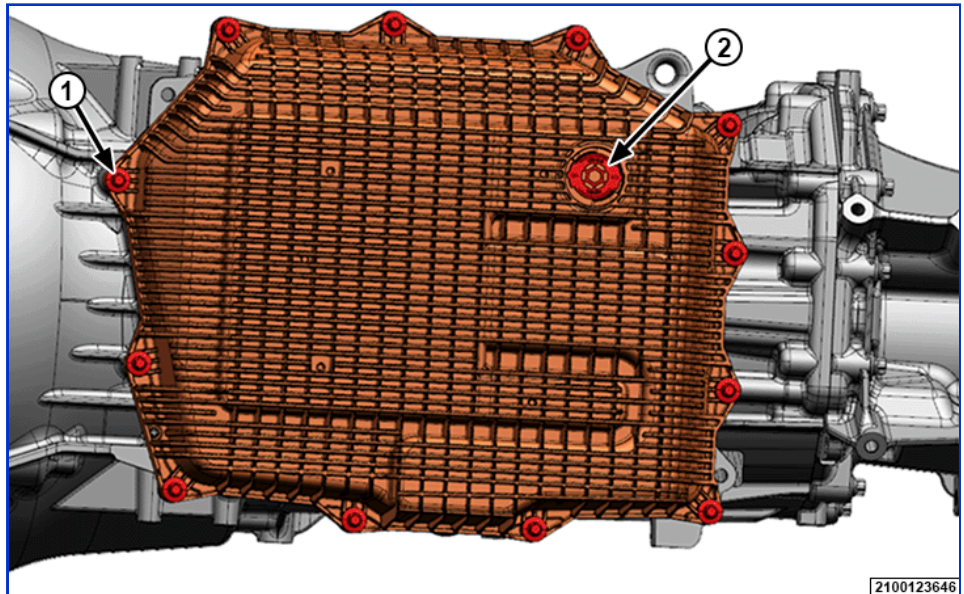
A unique transmission fluid has been developed for this transmission. This fluid is NOT compatible with ATF+4 or any other current FCA US LLC transmission fluid. For specifics about this unique fluid see FLUIDS, LUBRICANTS AND GENUINE PARTS.

CAUTION:

1. Raise and support the vehicle ([Refer to 04 - Vehicle Quick Reference/Hoisting/Standard Procedure](#)).
2. If equipped, remove any necessary skid plates.
3. Remove and **DISCARD** the transmission fluid/filter pan assembly drain plug and allow the transmission fluid to drain.

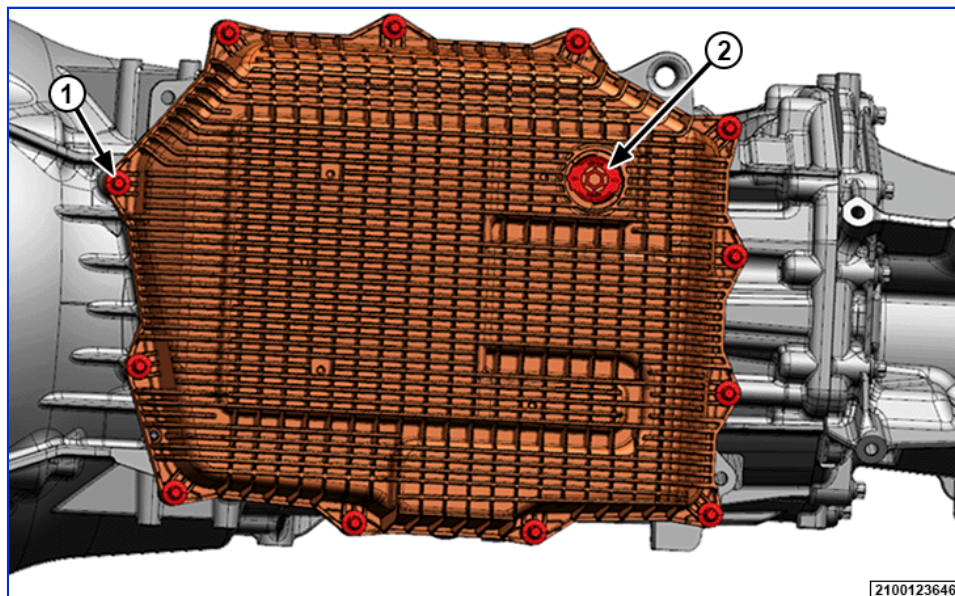
The transmission oil filter is integrated into the transmission oil pan. It will be necessary to pull straight down on the oil pan to separate the oil filter tube from the valve body inlet.

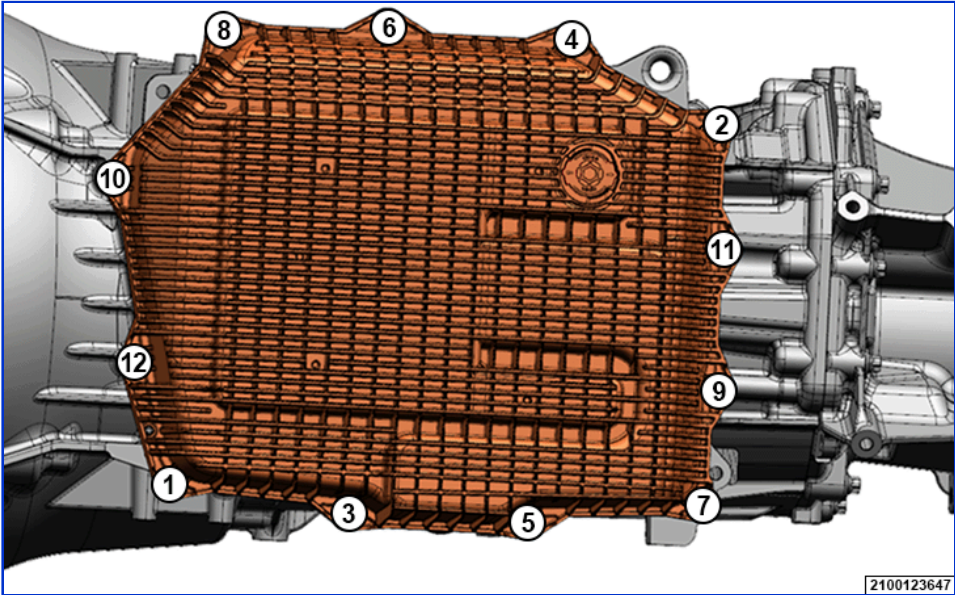
4. Remove the transmission oil pan assembly.
5. Install the **NEW** transmission oil pan assembly with the gasket and tighten the transmission oil pan bolts to the proper ([Torque Specifications](#)).
6. Perform the transmission oil fill after service procedure ([Refer to 21 - Transmission and Transfer Case/Automatic/Standard Procedure](#)).



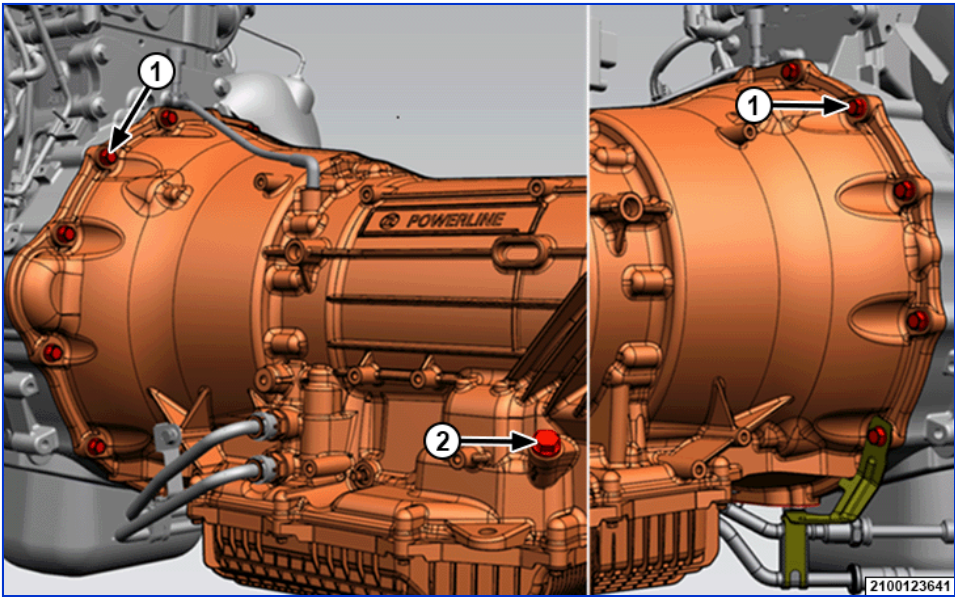
- 1 - Transmission Oil pan Bolts
2 - Transmission Oil Drain Plug

TORQUE SPECIFICATIONS - TRANSMISSION OIL PAN, DRAIN PLUG AND VALVE BODY



CALLOUT	DESCRIPTION	SPECIFICATION	COMMENT
1	Transmission Oil Pan Bolts	10 N·m (89 In. Lbs.)	Tightening Sequence  2100123647
2	Drain Plug	—	Do not reuse the drain plug. If removed, a NEW drain plug must be installed. The drain plug is turned 90° clockwise to install.
Not Shown	Valve Body Bolts	8 N·m (71 In. Lbs.)	—

 TORQUE SPECIFICATIONS - BELLHOUSING BOLTS AND FILL PLUG



CALLOUT	DESCRIPTION	SPECIFICATION	COMMENT
1	Transmission Case To Cylinder Block Adapter Plate Bolts	54 N·m (40 Ft. Lbs.)	–
2	Transmission Oil Fill Plug	35 N·m (26 Ft. Lbs.)	–

TRANSMISSION OIL FILL AFTER SERVICE

CAUTION:

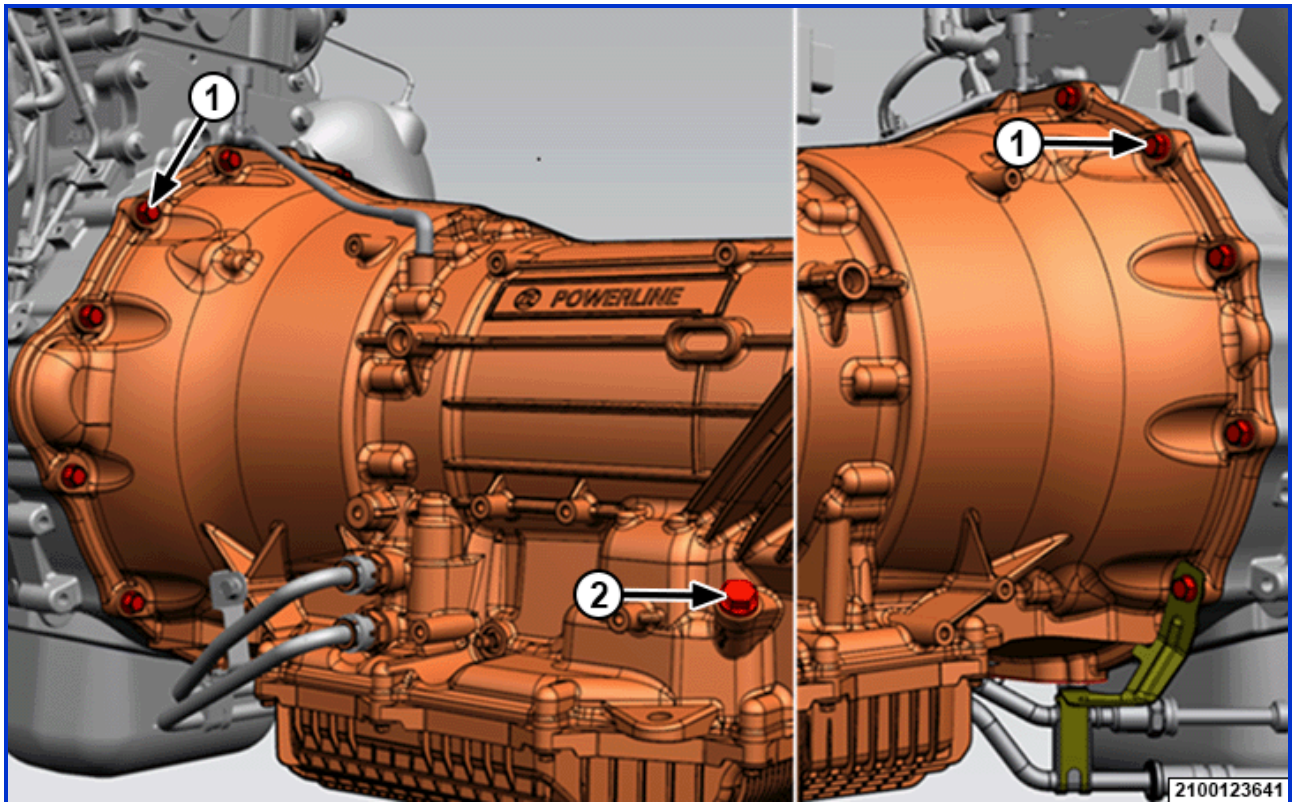
A unique transmission fluid has been developed for this transmission. This fluid is NOT compatible with ATF+4 or any other current FCA US LLC transmission fluid. For specifics about this unique fluid see FLUIDS, LUBRICANTS AND GENUINE PARTS.

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.

To properly fill the transmission after an in vehicle service or an overhaul, perform the following procedure:

1. **Transmission was removed and overhauled** - Prior to installing in the vehicle, remove the oil fill plug on the left rear side of the case. Shake the transmission oil container vigorously for at least 15 seconds before using. Install 17 L (18.0 qts) of transmission fluid. Install a **NEW** O-ring on the fill plug and install the fill plug. After installing the transmission, perform the CHECK OIL LEVEL procedure ([Refer to 21 - Transmission and Transfer Case/Automatic/Standard Procedure](#)).

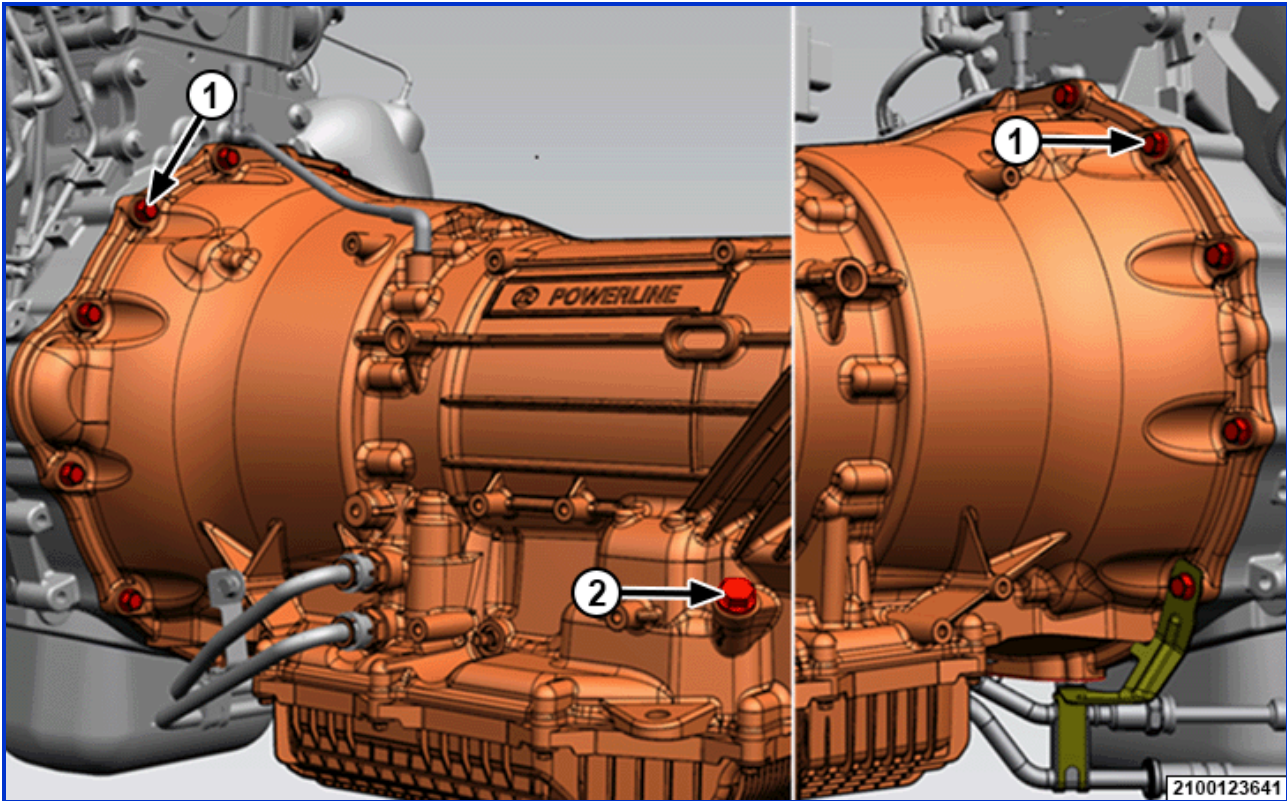


1 - Bellhousing To Engine Bolts

2 - Transmission Oil Fill Plug

2. **Transmission oil pan or valve body removed** - Remove the oil fill plug on the left rear side of the case. Shake the transmission oil container vigorously for at least 15 seconds before using. Install 6.0 L (6.3 qts) of transmission fluid. Install a **NEW** O-ring on the fill plug and install the fill plug. After installing the transmission, perform the CHECK OIL LEVEL procedure ([Refer to 21 - Transmission and Transfer Case/Automatic/Standard Procedure](#)).

TORQUE SPECIFICATIONS - BELLHOUSING BOLTS AND FILL PLUG



CALLOUT	DESCRIPTION	SPECIFICATION	COMMENT
1	Transmission Case To Cylinder Block Adapter Plate Bolts	54 N·m (40 Ft. Lbs.)	–
2	Transmission Oil Fill Plug	35 N·m (26 Ft. Lbs.)	–

CHECK TRANSMISSION OIL LEVEL

 **Special Tools:** Click to display a list of tools used in this procedure

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

WARNING:

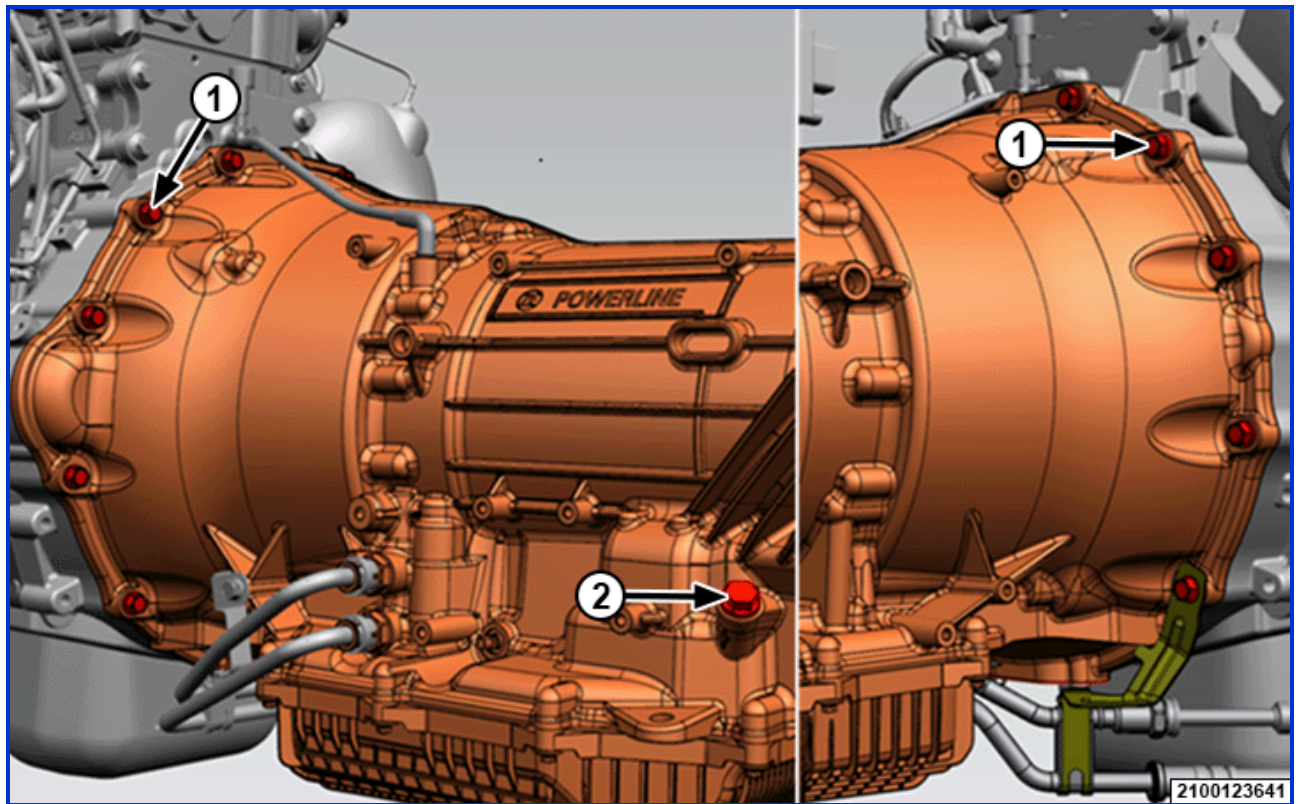
There is a risk of accident from vehicle moving when the engine is running. Secure vehicle to prevent it from moving. There is a risk of injury from contusions and burns if you insert your hands into the engine when it is running. Do not touch hot or rotating parts. Wear properly fitted work clothes.

CAUTION:

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NOTE: ZF transmissions are filled from the factory with UV leak detection dye. Do NOT add leak detection dye to the transmission. Adding oil dye can cause shift quality issues and is not recommended.

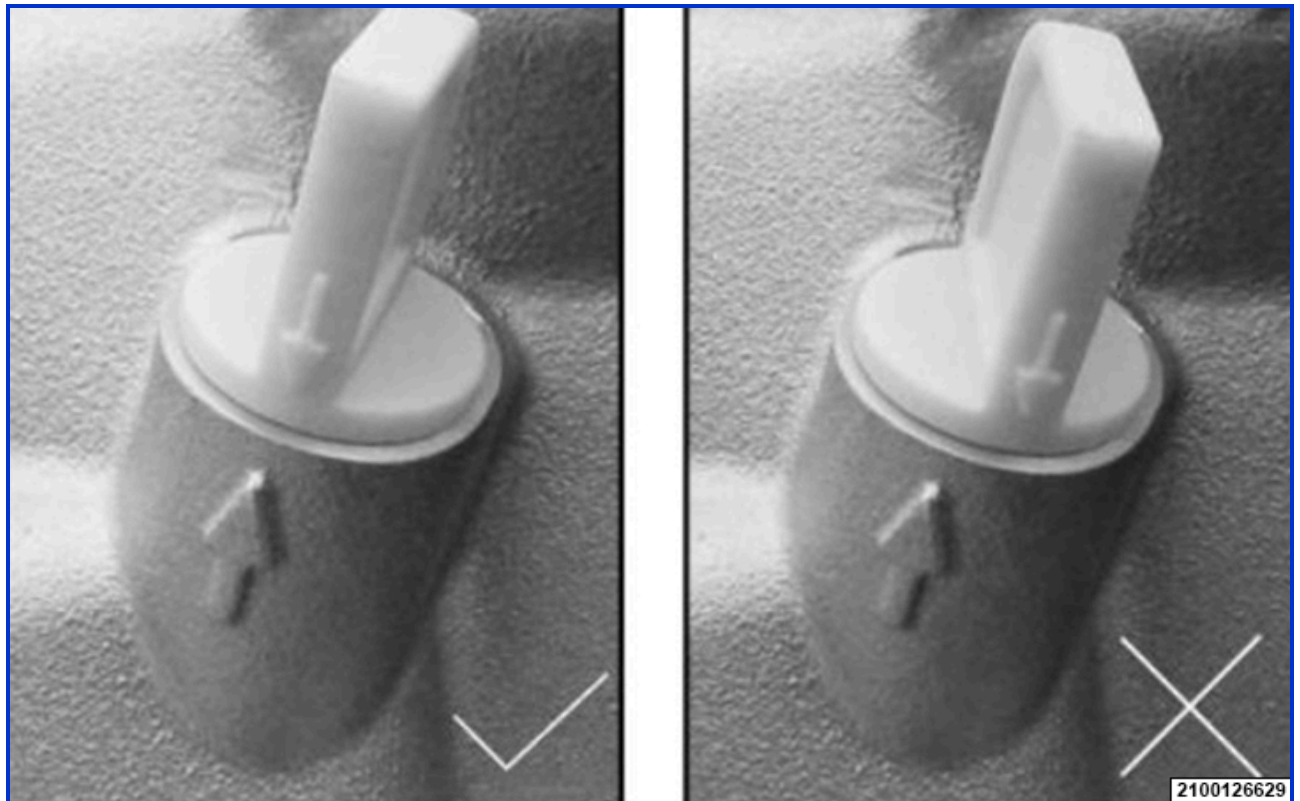
1. Start the engine. The engine must continue to run for the entire test.
2. Use a diagnostic scan tool to monitor the transmission oil temperature.
3. Disable Electronic Stability Control (ESC).
4. Raise and support the vehicle **on a level hoist** ([Refer to 04 - Vehicle Quick Reference/Hoisting - Standard Procedure](#)).
5. Make sure the tires are at least 8 inches off the ground.
6. With the brakes applied, place the transmission in DRIVE, release the brake and operate engine at 1,000 – 1,200 RPM for at least five seconds.
7. With the brakes applied, place the transmission in REVERSE, release the brake and operate engine at 1,000 – 1,200 RPM for at least five seconds.
8. Apply the brakes and place the transmission in NEUTRAL and operate engine at 1,000 – 1,200 RPM for at least five seconds.
9. Apply the brakes and place the transmission in PARK and operate engine at 1,000 – 1,200 RPM for at least five seconds.
10. Apply the Parking Brakes and place the transmission in NEUTRAL with the engine at idle speed.
11. Raise the vehicle.
12. Clean the area around the fill plug.
13. Remove the fill plug from the left rear of the transmission case.



1 - Bellhousing To Engine Bolts

2 - Transmission Oil Fill Plug

14. Insert the [Dipstick 2084000210](#) OR **GG-ZFDS25** dipstick with the arrow on the dipstick aligned with arrow cast into the transmission at the transmission oil fill port.



15. Carefully remove the dipstick and note the transmission oil level reading on the dipstick.

16. View the transmission oil temperature and compare the transmission oil level to transmission oil temperature indicated in the chart.

Transmission Oil Temperature	Indicated Transmission Oil Level
30° C (86° F)	0 - 2 mm
40° C (104° F)	3 - 7 mm
50° C (122° F)	7 - 11 mm
60° C (140° F)	12 - 16 mm
70° C (158° F)	16 - 20 mm
80° C (176° F)	19 - 23 mm
90° C (194° F)	23 - 27 mm
100° C (212° F)	25 - 29 mm

17. Adjust the fluid level if necessary and recheck. Shake the transmission oil container vigorously for at least 15 seconds before using, and if necessary add transmission oil. Use the correct transmission oil ([Refer to 04 - Vehicle Quick Reference/Capacities and Recommended Fluids/Specifications](#)).
18. Install a **NEW** O-Ring on the transmission oil fill plug.
19. Install the transmission oil fill plug.
20. Remove the support and lower the vehicle.
21. Using a diagnostic scan tool, clear any Diagnostic Trouble Codes (DTCs).

⊕ TORQUE SPECIFICATIONS - BELLHOUSING BOLTS AND FILL PLUG