

TRANSMISSION FLUID DRAIN AND ...

TRANSMISSION FLUID DRAIN AND FILL (AUTOMATIC TRANSMISSION - 9T45/9T50/9T60/9T65)

Document ID#
4554363**TRANSMISSION FLUID DRAIN AND FILL (AUTOMATIC TRANSMISSION - 9T45/9T50/9T60/9T65)****Draining Procedure****Warning:**

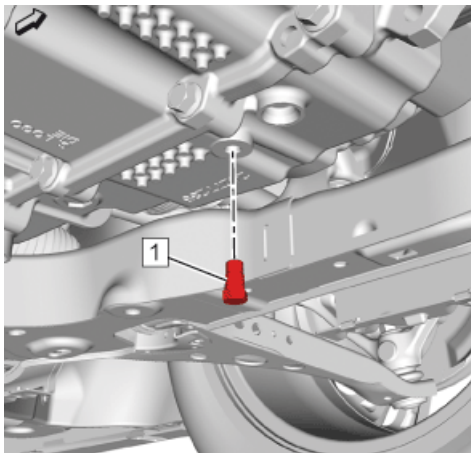
When the transmission is at operating temperatures, take necessary precautions when removing the check/fill plug, to avoid being burned by draining fluid.

Transmission Fluid Draining Warning:

The transmission fluid is hot. Caution must be taken to prevent personal injury when the transmission fluid drains from the transmission.

Note: Previous to the removing of any plug, clean the surrounding area of this plug.

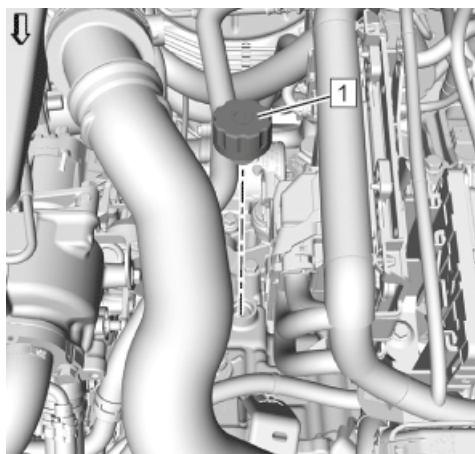
1. Raise and support the vehicle. [Lifting and Jacking the Vehicle](#)
2. Front Compartment Insulator » Remove — [Front Compartment Insulator Replacement](#)



3. [Transmission Fluid](#) Drain Plug (1) » Remove
 4. Drain the [transmission fluid](#) into a suitable container.
 5. Let the [transmission fluid](#) run out for 10 minutes and check the [transmission fluid](#) amount. If necessary, fill up the drained amount to the proper level with the correct fluid. [Transmission General Specifications](#) and [Approximate Fluid Capacities](#)
 6. Check the collected [transmission oil](#) for burnt oil exhalation, metal chips and other foreign bodies. If this the fact, search for the reason caused by the transmission.
- Caution:** [Fastener Caution](#)
7. [Transmission Fluid](#) Drain Plug » Install and tighten **12 N•m (106 lb in)**

Filling Procedure

1. Lower the vehicle.



2. [Transmission Fluid Filler Cap \(1\)](#) » Remove
3. Fill the transmission with the proper amount of the correct fluid. [Transmission General Specifications](#) and [Approximate Fluid Capacities](#)
4. [Transmission Fluid Filler Cap](#) » Install

Fluid Level Check

1. Start the engine.
2. Depress the brake pedal and move the shift lever through each gear range, pausing for about 3 seconds in each range. Then move the shift lever back to PARK (P).
3. Allow the engine to idle between 500 to 800 RPM for at least 3 minutes, to allow any fluid frothing to dissipate and the fluid level to stabilize. Release the brake pedal.

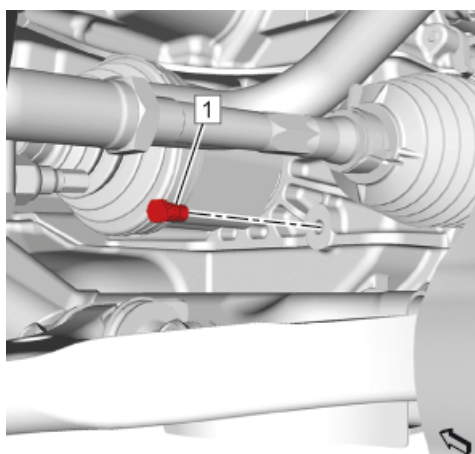
Fill Transmission at the Proper Temperature Caution: The [transmission fluid](#) level must be checked when the [transmission fluid](#) temperature (TFT) is at 85-95°C (185-203°F). If the TFT is not at this temperature, operate the vehicle or allow the fluid to cool as required. Setting the fluid level with a TFT outside this temperature will result in either an under or over-filled transmission. TFT over 95°C under-filled, TFT under 85°C over-filled. An under-filled transmission will cause premature component wear or damage. An over-filled transmission will cause fluid to discharge out the vent tube, fluid foaming, or pump cavitation.

4. Keep the engine running and observe the [transmission fluid](#) temperature (TFT), using the Driver Information Center or a scan tool.

Transmission Fluid Fill Caution: When performing a [transmission fluid](#) fill, verify that the vehicle is raised level. A vehicle that is not horizontally aligned will result in too high or too low [transmission fluid](#) level. An under or over filled transmission will cause malfunction or damage to the transmission.

Note: While checking the fluid level, the engine must be running and the shift lever has to be in the PARK range.

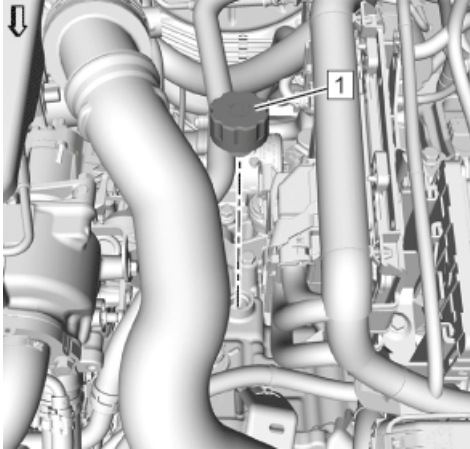
5. Raise the vehicle on a hoist.



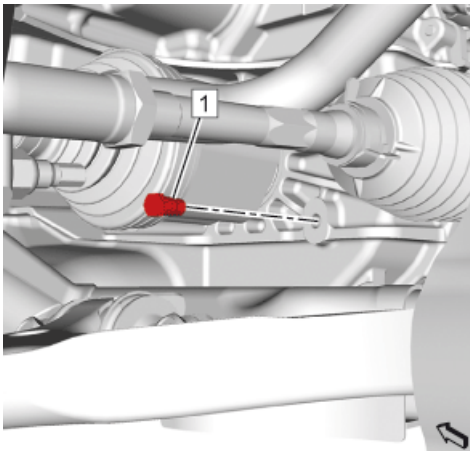
Checking Hot Transmission Fluid Through Drain Plug Hole Warning:

The engine must be running when the **transmission fluid** fill plug is removed, or excessive fluid loss will occur. **Transmission fluid** may be hot. Since the actual fluid level is unknown, stand clear when removing the fill plug. Have a container ready to capture any lost fluid. Do not turn the engine off with the fill plug removed, as you can be injured by hot **transmission fluid** being expelled out of the oil fill opening.

6. While the vehicle is idling, remove the **transmission fluid** level plug (1). Allow any fluid to drain into a drip pan.
 - If the fluid is flowing as a steady stream, wait until the fluid drips out one time per second. Continue with step 12.
 - If no fluid comes out, add fluid until it drips out of the **transmission fluid** level plug hole one time per second. Continue with step 7.
7. Lower the vehicle.



8. **Transmission Fluid** Filler Cap (1) » Remove
9. While the vehicle is idling, add fluid through the **transmission fluid** filler cap hole, until fluid is flowing as a stream out of the **transmission fluid** level plug hole. Wait until the fluid is only dripping out of the **transmission fluid** level plug hole one time per second.
10. **Transmission Fluid** Filler Cap » Install
11. Raise the vehicle.



Caution: [Fastener Caution](#)

12. **Transmission Fluid** Level Hole Plug (1) » Install and tighten **12 N•m (106 lb in)**
13. Lower the vehicle.
14. Stop the engine.
15. Raise the vehicle.
16. Front Compartment Insulator » Install — [Front Compartment Insulator Replacement](#)
17. Lower the vehicle.

Portions of materials contained herein are sourced from General Motors Inc., Co.

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