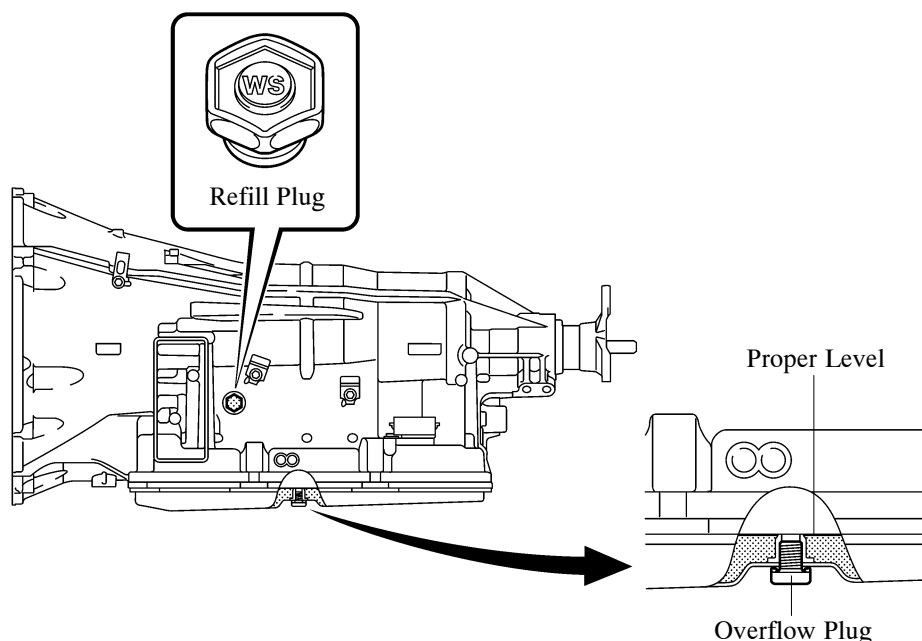


■ ATF FILLING PROCEDURE

A special ATF filling procedure is used in order to improve the accuracy of the ATF level when the transmission is being repaired or replaced. As a result, the oil filler tube and the oil level gauge used in the conventional automatic transmission have been discontinued, eliminating the need to inspect the fluid level as a part of routine maintenance.

- This filling procedure uses a refill plug, overflow plug, ATF temperature sensor, and the P and N shift range indicators.



036CH16Z

Service Tip

ATF filling procedure using SST (09843-18040)

When a large amount of ATF needs to be filled (i.e. after removal and installation of oil pan or torque converter), perform the procedure from step 1.

When a small amount of ATF is required (i.e. removal and installation of oil cooler tube, repair of a minor oil leak), perform the procedure from step 7.

The vehicle must be cold before beginning this ATF filling procedure.

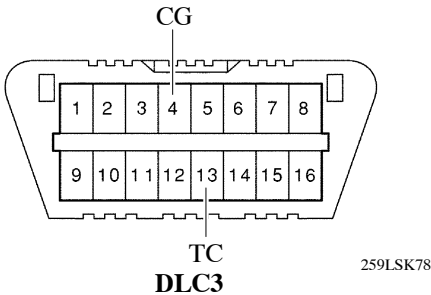
- 1) Raise the vehicle while keeping it level.
- 2) Remove the refill plug and overflow plug.
- 3) Fill the transmission with ATF WS through the refill plug hole until it overflows from the overflow plug hole.
 - ATF WS must be used to fill the transmission.
- 4) Reinstall the overflow plug.
- 5) Add the specified amount of ATF (specified amount is determined by the procedure that was performed) and reinstall the refill plug.

Example:

Procedure	Liters (US qts, Imp.qts)
Removal and installation of transmission oil pan (including oil drainage)	3.7 (3.9, 3.3)
Removal and installation of transmission valve body	4.7 (5.0, 4.1)
Replacement of torque converter	6.7 (7.1, 5.9)

(Continued)

- 6) Lower the vehicle.
- 7) Use the SST (09843-18040) to short the TC and CG terminals of the DLC3.
- 8) Start the engine and allow it to idle.
 - A/C switch must be turned off.
- 9) Slowly move the shift lever from the P position to the M position. Then move the shift lever back to the P position.



- 10) Move the shift lever to the D position, and then quickly move it back and forth between N and D (at least once every 1.5 seconds) for at least 6 seconds (the last movement should leave the shifter in the N position). This will activate oil temperature detection mode.

Standard: The shift range indicator “N” goes off for 4 seconds.

- 11) Return the shift lever to the P position and disconnect the terminals TC and CG of the DLC3.
- 12) Idle the engine to raise the ATF temperature.
- 13) When shift range indicator “P” turn on, lift the vehicle up immediately.
 - The shift range indicator “P” indicates the ATF temperature according to the following table.

ATF Temperature	Lower than Optimal Temperature	Optimal Temperature	Higher than Optimal Temperature
Shift Range Indicator “P”	OFF	ON	Blinking

- 14) Remove the overflow plug and adjust the oil quantity.
 - If the ATF overflows, go to step 17, and if the ATF does not overflow, go to step 15.
 - 15) Remove the refill plug.
 - 16) Add ATF through the refill plug hole until it flows out from the overflow plug hole.
 - 17) When the ATF flow slows to a trickle, install the overflow plug and a new gasket.
 - 18) Reinstall the refill plug and a new O-ring (if the refill plug was removed).
 - 19) Lower the vehicle.
 - 20) Turn the engine switch OFF to stop the engine.
- For details about the ATF filling procedures, see the LEXUS IS F Repair Manual (Pub. No. RM08E0E).