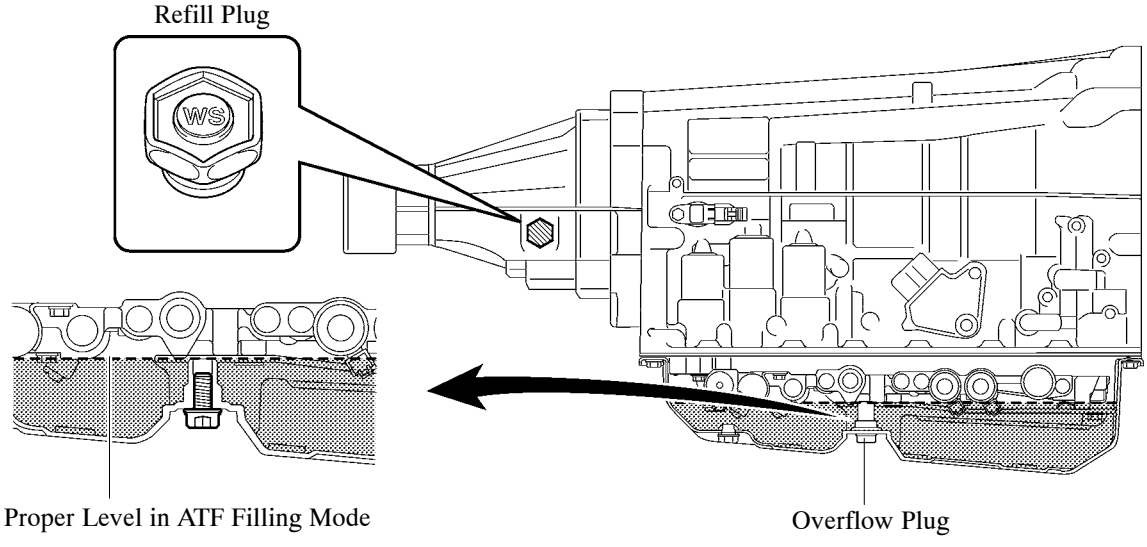
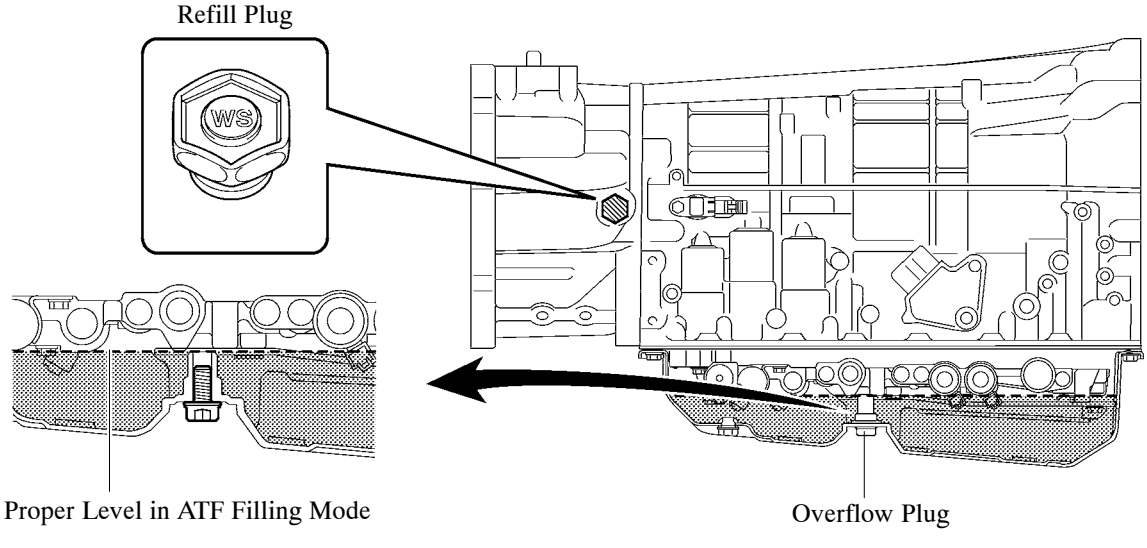
■ATF FILLING PROCEDURE

An 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 No. 2, and ATF temp. warning light.



A750E Automatic Transmission



A750F Automatic Transmission

Service Tip

ATF Filling procedures using SST (09843-18040)

When a large amount of ATF needs to be filled (i. e. after removal and installation of the oil pan or torque converter), perform the procedure from step 1.
When a small amount of ATF is required (i. e. after removal and installation of an oil cooler tube, repair of a minor oil leak), perform the procedure from step 7.

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

Example

Procedure	Liters (US qts, Imp.qts)
Removal and installation of transmission oil pan (including oil drainage)	1.7 (1.80, 1.50)
Removal and installation of transmission valve body	4.3 (4.54, 3.78)
Replacement of torque converter	5.4 (5.70, 4.75)

6) Lower the vehicle.
7) Use the SST (09843-18040) to connect the terminals TC and CG of the DLC3.
8) Start the engine and allow it to idle.
   - A/C switch must be turned off.
9) Move the shift lever slowly through each of the positions from the P to the L position, and move it 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 six seconds. This will activate the oil temperature detection mode.
    Standard: The ATF temp. warning light will remain illuminated for 2 seconds and then go off.
11) Return the shift lever to the P position and disconnect the SST from terminal TC.
12) Idle the engine to raise the ATF temperature.
13) Immediately after the ATF temp. warning light turns on, lift the vehicle up.
    - The ATF temp. warning light will indicate the ATF temperature according to the following table.

ATF Temp.	Less than Optimal Temp.	Optimal Temp.	More than Optimal Temp.
ATF Temp. Warning Light	OFF	ON	Blinking

14) Remove the overflow plug and adjust the ATF quantity.
    - If the ATF overflows, go to step 17.
    - If the ATF does not overflow, go to step 15.
15) Remove the refill plug.
16) Add ATF to 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 through a new gasket.
18) Install the refill plug (only if the refill plug was removed).
19) Lower the vehicle.
20) Turn the ignition switch OFF to stop the engine.

For details about the ATF Filling procedures, see the 2007 FJ Cruiser Repair Manual (Pub. No. RM0240U).