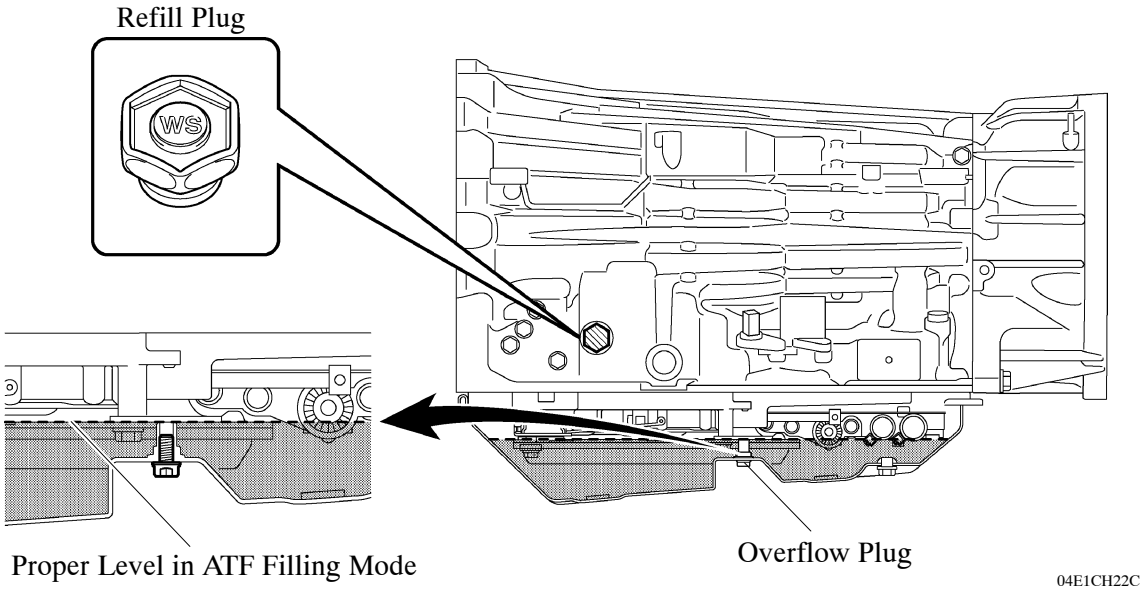
■ATF FILLING PROCEDURE

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, No.2 ATF temperature sensor and shift position indicator light “D”.



Service Tip

ATF Filling procedure using SST (09843-18040)

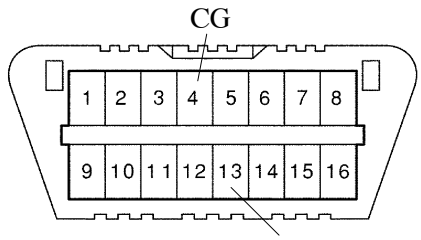
When a large amount of ATF needs to be filled (i.e. after removal and installation of oil pan or torque converter clutch), perform the procedure from step 1.
When a small amount of ATF is required (i.e. removal and installation of oil cooler tube, repair of a minor oil leak), perform the procedure from step 5.
Keep the vehicle level. Turn off the AHC height control switch before raising the vehicle.

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

Example:

Procedure	Amount Liters (US qts, Imp.qts)
Removal and installation of an oil pan (including oil drainage)	2.1 (2.22, 1.85)
Removal and installation of a transmission valve body	4.7 (4.97, 4.14)
Replacement of a torque converter clutch	6.1 (6.45, 5.37)

(Continued)



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5) Use the SST (09843-18040) to make shorts between the TC and CG terminals of the DLC3 connector:
6) Start the engine and allow it to idle.
   - A/C switch must be turned off.
7) Move the shift lever from the P position to the S mode position and slowly selects each gear S1 - S6. Then move the shift lever back to the P position.
8) 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. This will activate oil temperature detection mode.
   Standard: The shift position indicator light "D" remains illuminated for 2 seconds and then goes off.
9) Return the shift lever to the P position and disconnect the TC terminal.
10) Idle the engine to raise the ATF temperature.
11) Immediately after the shift position indicator "D" light turns on, lift the vehicle up.
   - The shift position indicator light "D" will indicate the ATF temperature according to the following table.

ATF Temp.	Lower than Proper Temp.	Proper Temp.	Higher than Proper Temp.
Shift Position Indicator Light "D"	Turn OFF	Turn ON	Blinking

12) Remove the overflow plug and adjust the oil quantity.
   - If the ATF overflows, go to step 15, and if the ATF does not overflow, go to step 13.
13) Remove the refill plug.
14) Add ATF through the refill plug hole until it flows out from the overflow plug hole.
15) When the ATF flow slows to a trickle, install the overflow plug and a new gasket.
16) Reinstall the refill plug (if the refill plug was removed).
17) Turn the engine switch OFF to stop the engine.

For details about the ATF Filling procedures, see the Land Cruiser (Station Wagon) Repair Manual (Pub. No. RM0810E).