

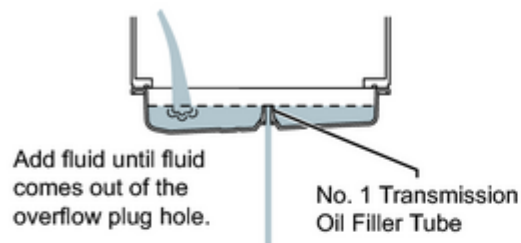
Last Modified: 10-29-2020	6.10:8.0.50	Doc ID: RM000002BL0048X
Model Year Start: 2014	Model: 4Runner	Prod Date Range: [08/2013 -]
Title: A750E AUTOMATIC TRANSMISSION / TRANSAXLE: AUTOMATIC TRANSMISSION FLUID: ADJUSTMENT; 2014 MY 4Runner [08/2013 -]		

ADJUSTMENT

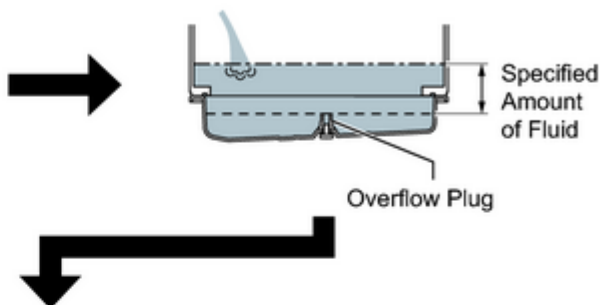
Fluid Filling Procedure:

TRANSMISSION FILL (When necessary)

Add fluid to the oil pan to the specified level.

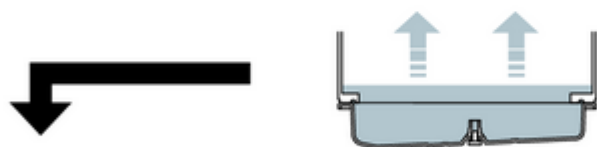


Add the correct amount of fluid specified for the operation that was performed.



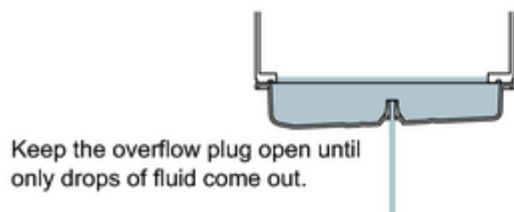
FLUID TEMPERATURE CHECK

Start the engine to circulate the fluid. Enter fluid temperature detection mode and engine idle speed control mode, and adjust the fluid temperature to the specified value.

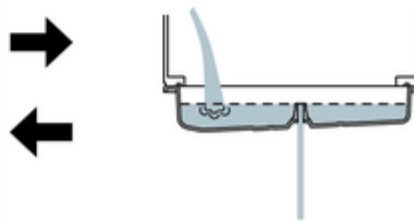


FLUID LEVEL CHECK

Drain excess fluid at the specified fluid temperature.



If no fluid comes out, add fluid until fluid comes out of the overflow plug hole.



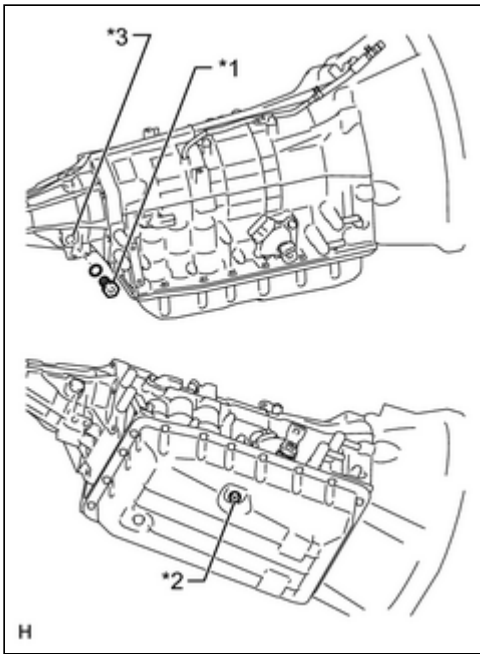
NOTICE:

- This transmission requires Toyota Genuine ATF WS.
- After servicing the transmission, you must follow the ATF adjustment procedure.
- Maintain the vehicle in a horizontal position while adjusting the fluid level.

1. BEFORE FILLING TRANSMISSION

- When you have replaced the entire transmission, transmission pan, drain plug, valve body and/or torque converter, proceed to the "Transmission Fill" procedures.
- When you have replaced the transmission hose and/ or output shaft oil seal, proceed to the "Fluid Temperature Check" procedures.

2. TRANSMISSION FILL



(a) Remove the refill plug and overflow plug.

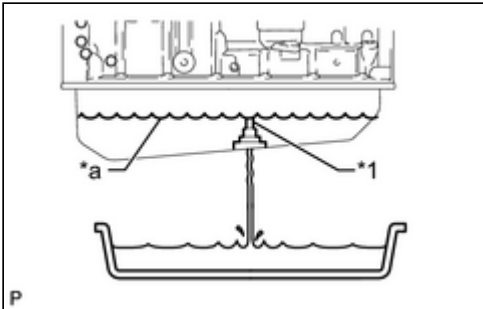
Text in Illustration

*1	Refill Plug
*2	Overflow Plug
*3	Refill Hole

(b) Fill the transmission through the refill hole until fluid begins to trickle out of the overflow tube.

Text in Illustration

*1	Overflow Tube
*a	Specified fluid level



- (c) Reinstall the overflow plug.
- (d) Fill the transmission with the amount of fluid listed in the table below.
- Reference Capacity:

REPAIR	FILL AMOUNT
Transmission pan and drain plug removal	1.7 liters (1.8 US qts, 1.5 Imp. qts)
Transmission valve body removal	4.3 liters (4.5 US qts, 3.8 Imp. qts)

REPAIR	FILL AMOUNT
Torque converter removal	5.4 liters (5.7 US qts, 4.8 Imp. qts)

(e) Install the refill plug.

HINT:

If you cannot fill the listed amount of fluid, perform the following:

(1) Start the engine and idle it.

NOTICE:

Check that electrical systems such as the air conditioning system, audio system and lighting system are off.

(2) Move the shift lever through the entire gear range to circulate the fluid.

(3) Wait for 30 seconds with the engine idling.

(4) Stop the engine.

(5) Remove the refill plug.

(6) Fill the transmission with the remaining fluid until the amount in the table has been filled.

(7) Install the refill plug.

3. FLUID TEMPERATURE CHECK

NOTICE:

The ATF temperature can be confirmed by using the Techstream.

(a) Turn the ignition switch off.

(b) Connect the Techstream to the DLC3.

(c) Turn the ignition switch to ON.

(d) Enter the following menus: Powertrain / ECT / Data List / A/T Oil Temperature 1.

(e) Check the ATF temperature.

NOTICE:

If the ATF temperature is higher than 45°C (113°F), turn the ignition switch off and wait until the fluid temperature drops to below 40°C (104°F).

4. FLUID LEVEL CHECK

NOTICE:

- It is necessary to change to temperature detection mode in order to idle the vehicle appropriately.
- The ATF temperature must be between 40 and 45°C (104 and 113°F) to accurately check the fluid level.

(a) When using the Techstream:

Enter the following menus: Powertrain / ECT / Active Test / Connect the TC and TE1.

Standard condition:

Indicator lights in the combination meter blink.

(b) When not using the Techstream:

Using SST, connect terminals 13 (TC) and 4 (CG) of the DLC3.

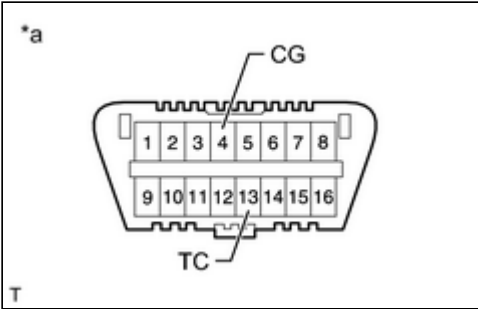
SST: 09843-18040

Standard condition:

Indicator lights in the combination meter blink.

Text in Illustration

*1	Front view of DLC3:
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(c) Start the engine and idle it.

NOTICE:

Check that electrical systems such as the air conditioning system, audio system and lighting system are off.

(d) Slowly move the shift lever from P to S, and then change the gear from 1st to 5th. Then return the shift lever to P.

HINT:

Slowly move the shift lever to circulate the fluid through each part of the transmission.

(e) Move the shift lever to D, and quickly move it back and forth between N and D (once within 1.5 seconds) for at least 6 seconds. This will activate the fluid temperature detection mode.

Standard condition:

Indicator light [A/T OIL TEMP] remains illuminated for 2 seconds and then turns off.



(f) When using the Techstream:

Return the shift lever to P and terminate the Active Test on the Techstream.

(g) When not using the Techstream:

Return the shift lever to P and disconnect SST from the DLC3.

(h) Allow the engine to idle until the fluid temperature reaches 40 to 45°C (104 to 113°F).

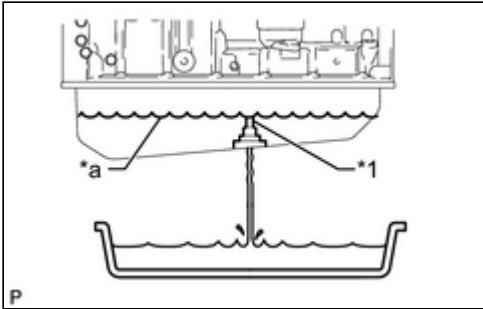
HINT:

The indicator [A/T OIL TEMP] will come on again when the fluid temperature reaches 40°C (104°F) and will blink if it is higher than 45°C (113°F).

Indicator [A/T OIL TEMP] Indication of ATF Temperature

Below 40°C (104°F)	40 to 45°C (104 to 113°F)	Higher than 45°C (113°F)
Turn off	Turn on	Blinking

(i) Remove the overflow plug and gasket with the engine idling.



(j) Wait until the overflow slows to a trickle.

Text in Illustration

*1	Overflow Tube
*a	Specified fluid level

NOTICE:

If the fluid does not overflow, perform the following:

- (1) Remove the refill plug and gasket.
 - (2) Refill the transmission through the refill hole until fluid begins to trickle out of the overflow tube.
 - (3) Wait until the overflow slows to a trickle.
- (k) Install a new gasket and the overflow plug.

Torque:

20 N·m {204 kgf·cm, 15ft·lbf}

- (l) Install a new gasket and the refill plug.

Torque:

37 N·m {379 kgf·cm, 27ft·lbf}

5. COMPLETE

- (a) Turn the ignition switch off.
- (b) When using the Techstream:
Disconnect the Techstream from the DLC3.
- (c) Inspect for automatic transmission fluid leak.

