

AUTOMATIC TRANSMISSION FLUID ADJUSTMENT

AT145-01

1. BEFORE TRANSMISSION FILL

- This transmission requires Toyota Genuine ATF WS transmission fluid.
- After servicing the transmission, you must refill the transmission with the correct amount of fluid.
- Maintain the vehicle in a horizontal position while adjusting fluid level.
- On vehicles equipped with active suspension, turn the suspension control switch OFF if you jack up the vehicle while the engine is running.
- Proceed to step 2 if you replaced the entire transmission, transmission pan, drain plug, valve body and/or torque converter.
- Proceed to step 3 after removing the refill plug if you replaced the transmission hose and/or output shaft oil seal.

2. TRANSMISSION PAN FILL

- Remove the refill plug and overflow plug.
 - Fill the transmission through the refill hole until fluid begins to trickle out of the overflow tube.
 - Reinstall the overflow plug.
- ### 3. TRANSMISSION FILL
- Fill the transmission with the correct amount of fluid as listed in the table below.
 - Reinstall the refill plug to avoid fluid splash.

Repair	Fill Amount
Transmission hose and pipe removal	0.6 L (0.63 US qts, 0.53 Imp qts)
Output shaft oil seal replacement	0.4 L (0.42 US qts, 0.35 Imp qts)
Transmission pan and drain plug removal	1.3 L (1.37 US qts, 1.14 Imp qts)
Transmission valve body removal	3.9 L (4.12 US qts, 3.43 Imp qts)
Torque converter removal	5.3 L (5.60 US qts, 4.66 Imp qts)
Entire transmission assembly	7.2 L (7.61 US qts, 6.34 Imp qts)

HINT:

If you cannot add the listed amount of fluid, do the following:

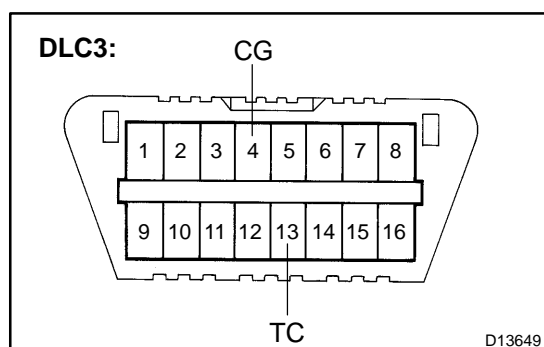
- Install the refill plug.
- Allow the engine to idle with the air conditioning OFF.
- Move the shift lever through entire gear range to circulate fluid.
- Wait for 30 seconds with the engine idling.
- Stop the engine.
- Remove the refill plug and add fluid.
- Reinstall the refill plug.

4. FLUID CIRCULATION

- (a) Allow the engine to idle with the air conditioning OFF.
- (b) Move the shift lever through entire gear range to circulate fluid.

5. FLUID TEMPERATURE CHECK

- (a) With hand-held tester
 - (1) Connect the hand-held tester to the DLC3.
 - (2) Select the tester menus: OBD/MOBD, ENGINE, DATA LIST and A/T.
 - (3) Check A/T OIL TEMP.
 - (4) Allow the engine to idle until the fluid temperature reaches 46°C (115°F).



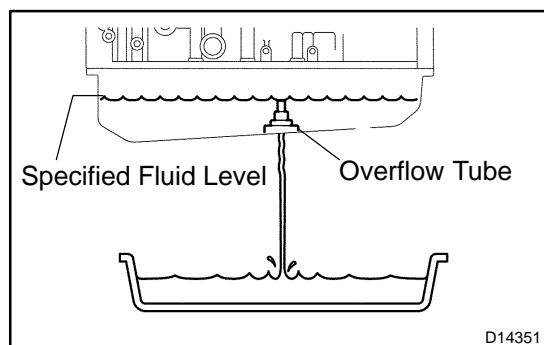
- (b) Without hand-held tester (Using A/T OIL TEMP indicator)
 - (1) Create a short circuit between CG (4) and TC (13) of the DLC3 terminals using SST.

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 - (2) Move the shift lever back and forth between N and D at 1.5 seconds interval for six seconds.
 - (3) The A/T OIL TEMP indicator comes on for two seconds when the combination meter starts to detect the fluid temperature.
 - (4) The A/T OIL TEMP indicator comes on again when the fluid temperature reaches 46°C (115°F) and blinks when it exceeds 56°C (130°F).
 - (5) Allow the engine to idle until the fluid temperature reaches 46°C (115°F).

HINT:

The fluid temperature should be less than 30°C (86°F) before check the fluid temperature.

**6. FLUID LEVEL CHECK****NOTICE:**

The fluid temperature must be between 46°C (115°F) and 56°C (130°F) to check the fluid level.

- (a) Remove the overflow plug with the engine idling.
 - (b) Check that the fluid comes out of the overflow tube.
- If fluid does not come out, proceed to step 7.
- If fluid comes out, wait until the over-flow slows to a trickle and proceed to step 8.

7. TRANSMISSION REFILL

- (a) Install the overflow plug.
- (b) Stop the engine.
- (c) Remove the refill plug.
- (d) Add 0.4 liters (0.42 US qts, 0.35 Imp qts) of fluid.
- (e) Allow the engine to idle and wait for 10 seconds.
- (f) Proceed to step 6.

8. COMPLETE

- (a) Install the overflow plug with a new gasket.

Torque: 20 N·m (205 kgf·cm, 15 ft·lbf)

- (b) Stop the engine.

- (c) Install the refill plug with a new gasket.

Torque: 39 N·m (400 kgf·cm, 29 ft·lbf)