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Model Year Start: 2024	Model: Land Cruiser	Prod Date Range: [02/2024 -]
Title: MAINTENANCE: L580F HYBRID TRANSMISSION FLUID: REPLACEMENT; 2024 MY Land Cruiser [02/2024 -]		

REPLACEMENT

CAUTION / NOTICE / HINT

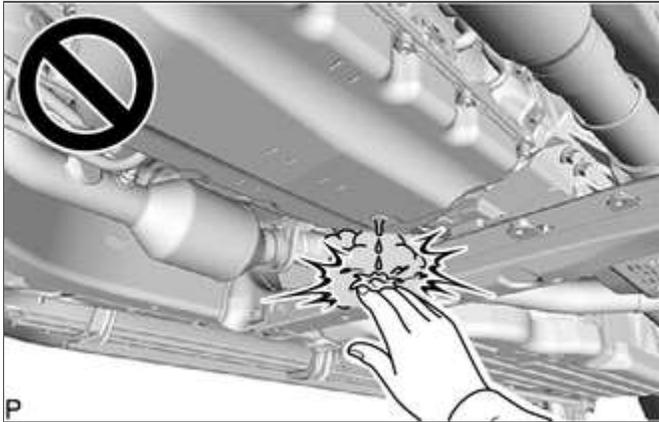
The necessary procedures (adjustment, initialization or registration) that must be performed after replacing the transmission fluid are shown below.

Necessary Procedures After Parts Removed/Installed/Replaced

REPLACEMENT PART OR PROCEDURE	NECESSARY PROCEDURE	EFFECT/INOPERATIVE FUNCTION WHEN NECESSARY PROCEDURES ARE NOT PERFORMED	LINK
Transmission fluid	ATF thermal degradation estimate reset	The value of the Data List item "ATF Thermal Degradation Estimate" is not estimated correctly.	

CAUTION:

- Be careful not to burn yourself when the transmission fluid temperature is high.



- To prevent burns, do not touch the engine, exhaust pipe or other high temperature components while the



engine is hot.

PROCEDURE

1. BEFORE FILLING TRANSMISSION

Click here 

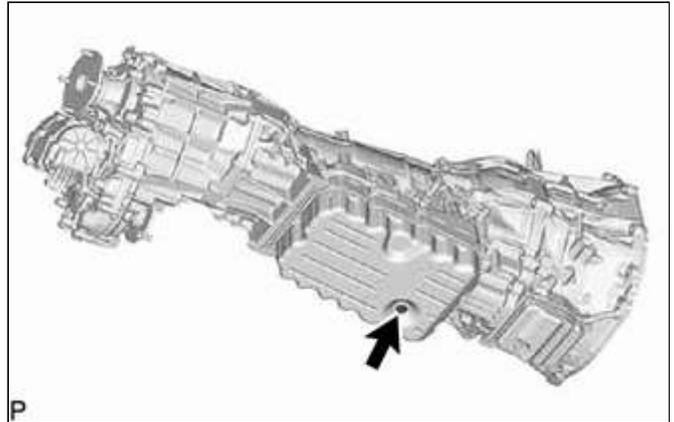
2. REPLACE TRANSMISSION FLUID

(a) Lift the vehicle. [#1]

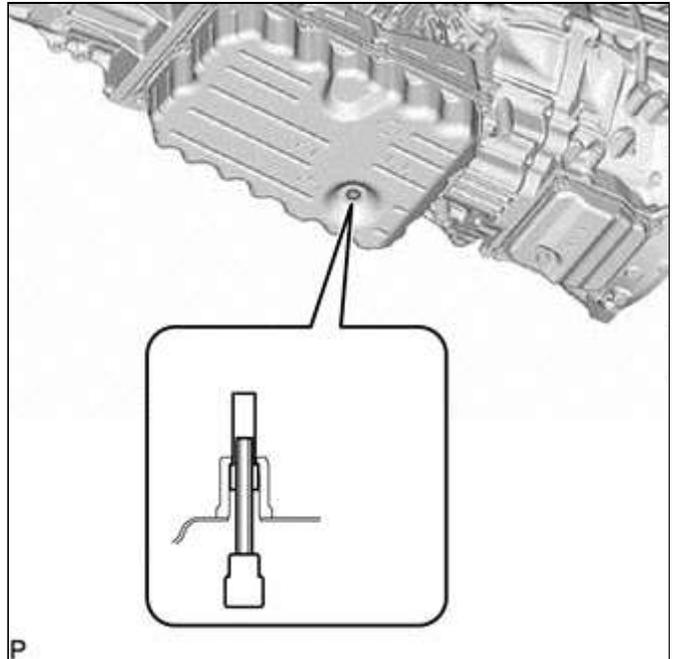
NOTICE:

The transmission fluid level cannot be measured accurately if the vehicle is not level. Make sure it is held level.

(b) Using a 6 mm hexagon socket wrench, remove the drain (ATM) plug sub-assembly and gasket from the hybrid vehicle transmission assembly and drain the transmission fluid. [#2]



(c) Using a 6 mm hexagon socket wrench, remove the No. 1 transmission oil filler tube from the hybrid vehicle transmission assembly and drain the transmission fluid. [*3]



(d) Using a 6 mm hexagon socket wrench, temporarily install the No. 1 transmission oil filler tube to the hybrid vehicle transmission assembly. [*4]

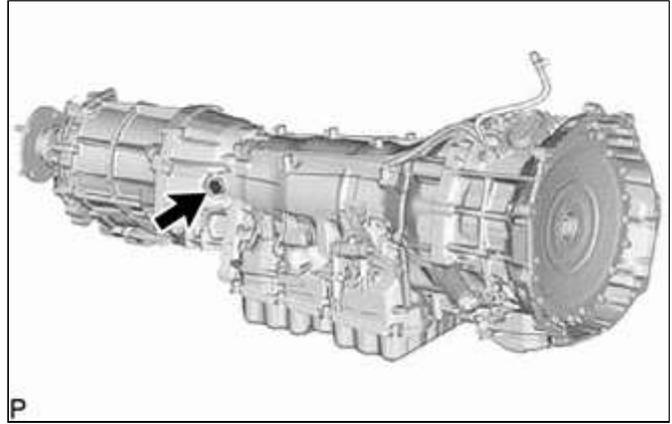
Torque:

1.7 N·m {17 kgf·cm, 15 in·lbf}

(e) Remove the transmission case adapter refill plug and gasket from the hybrid vehicle transmission assembly. [#5]

CAUTION:

Make sure not to touch the high temperature parts such as the exhaust pipe, etc.



(f) Add transmission fluid to the refill hole until it flows out of the overflow hole. [#6]

NOTICE:

- Use Toyota Genuine ATF WS.

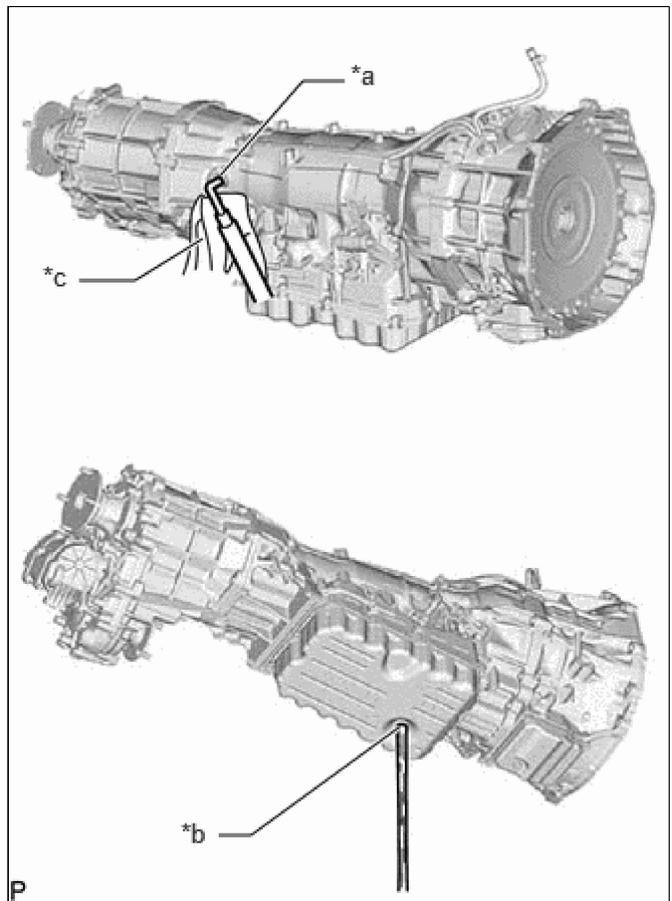
Using transmission fluid other than the above type may cause abnormal noise or vibration, or ultimately damage the transmission.

- Be sure to add transmission fluid slowly. If transmission fluid is added quickly, the transmission fluid may hit internal parts and bounce back, resulting in transmission fluid coming out of the refill hole.

HINT:

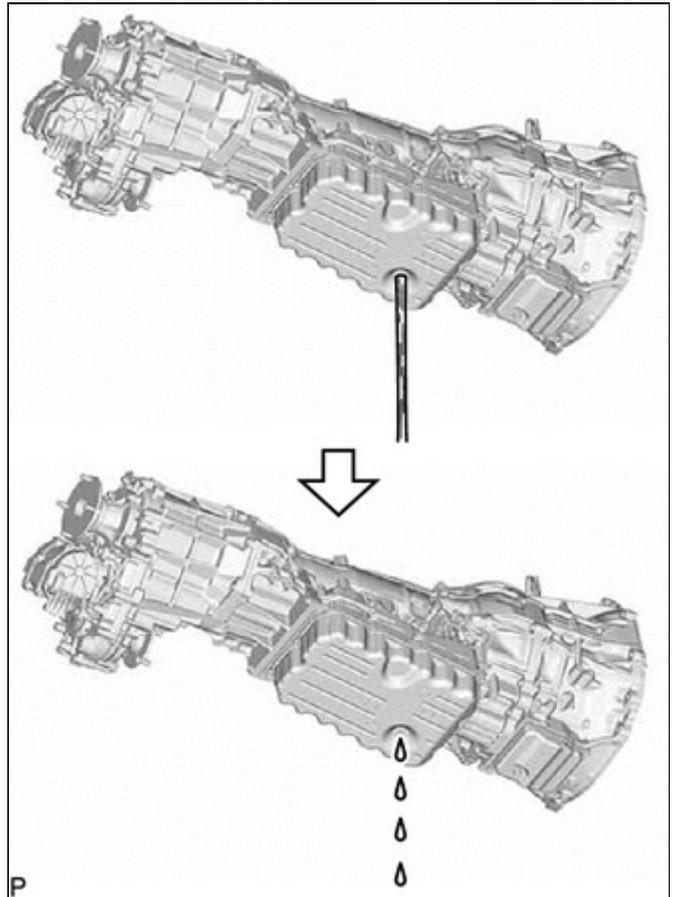
When pouring transmission fluid into the refill hole, cover the area surrounding the refill hole with a cloth.

If transmission fluid adheres to the automatic transmission oil pan sub-assembly, it may be mistaken for a transmission fluid leak.



*a	Refill Hole
*b	Overflow Hole
*c	Cloth

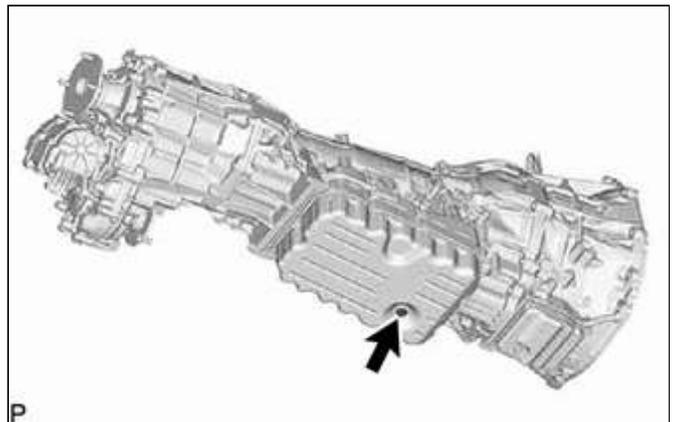
(g) Wait until the transmission fluid flow slows and only drips come out. [#7]



(h) Using a 6 mm hexagon socket wrench, temporarily install the drain (ATM) plug sub-assembly and gasket to the hybrid vehicle transmission assembly. [#8]

HINT:

Gasket replacement and tightening of the drain (ATM) plug sub-assembly are performed after the transmission fluid level is adjusted.



(i) Pour the specified amount of transmission fluid into the transmission case adapter refill plug. [#9]

Specified Amount of Fluid:

3.9 liters (4.1 US qts, 3.4 Imp. qts)

NOTICE:

- Use Toyota Genuine ATF WS.

Using transmission fluid other than the above type may cause abnormal noise or vibration, or ultimately damage the transmission.

- Be sure to add transmission fluid slowly. If transmission fluid is added quickly, the transmission fluid may hit internal parts and bounce back, resulting in transmission fluid coming out of the refill hole.

HINT:

- When pouring transmission fluid into the refill hole, cover the area surrounding the refill hole with a cloth.

If transmission fluid adheres to the automatic transmission oil pan sub-assembly, it may be mistaken for a transmission fluid leak.

- When pouring transmission fluid into the refill hole, it may not be possible to pour the specified amount of transmission fluid because of overflow into the refill hole. In this case, perform the steps [#10] through [#15] below. Once the transmission fluid has been circulated through the oil lines in the hybrid vehicle transmission assembly and the torque converter assembly, continue to pour in the specified amount of transmission fluid through the refill hole.

- (j) Temporarily install the gasket and transmission case adapter refill plug to the hybrid vehicle transmission assembly. [#10]

HINT:

Gasket replacement and tightening of the transmission case adapter refill plug are performed after the transmission fluid level is adjusted.

- (k) Lower the vehicle. [#11]

- (l) Depress and hold the brake pedal. [#12]

- (m) Turn the ignition switch to ON (READY). [#13]

NOTICE:

To reduce load, make sure that all electrical systems, such as the air conditioning and audio system are off.

- (n) Slowly move the shift position from P to D in the order of P → R → N → D, and then move the shift position back to P. [#14]

HINT:

Keep the shift position in each position for approximately 3 seconds.

- (o) With the ignition switch ON (READY), turn the hybrid system on for 30 seconds. [#15]

- (p) Turn the ignition switch off. [#16]

- (q) Repeat steps [#1] to [#16].

- (r) Repeat steps [#1] to [#11].

3. ADJUST TRANSMISSION FLUID TEMPERATURE (when Using the GTS)

Click here 

4. ADJUST TRANSMISSION FLUID TEMPERATURE (when Not Using the GTS)

Click here 

5. ADJUST TRANSMISSION FLUID LEVEL

Click here 

6. AFTER FILLING HYBRID VEHICLE TRANSMISSION

Click here 

7. ATF THERMAL DEGRADATION ESTIMATE RESET**NOTICE:**

Approximately 50% or more of the ATF has been replaced during a repair of the transmission or a similar operation.

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