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# Service bulletin

Section: Chassis / Power  
Train  
Ref. No.: CP-0001  
Date: Jun.,2010  
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Area Application : All Countries

Model Name : LS600hL, LS600h, GS450h, HS250h, RX400h, RX450h

Model Code : UVF4#, GWS191, ANF10, MHU3#, GYL1#

## **Subject : FLUID REPLACEMENT FOR TRANSMISSION/TRANSAXLE WITH HYBRID SYSTEM**

This Service Bulletin includes basic procedures only. Refer to the repair manual of the corresponding vehicle model for further details about procedures that vary by model (fluid type, oil level, filling method, the location of the drain plug and overflow plug, torque, etc.).

### **Part No. Information :**

New Part No.	New Part Name	Qty
NA	NA	NA

### **Production Effective :**

Frame No.	Production Date
NA	NA

## CHASSIS / POWER TRAIN TRANSMISSION / TRANSAXLE

### REPLACEMENT

#### 1. REPLACE HYBRID TRANSAXLE FLUID

##### Notice:

- Be sure to fully insert the filler nozzle into the filler plug opening.
- Be sure to add fluid slowly. If fluid is added quickly, the fluid may hit internal parts and bounce back, resulting in fluid coming out of the filler plug opening.
- Be sure to wait for 30 seconds after adding transaxle fluid and then directly check through the filler plug opening that the fluid level is within the specified range.
- Insufficient or excessive amounts of transaxle fluid may be the cause of some trouble.

##### Hint:

The following procedure is for RX450h and is provided as an example. Refer to the corresponding repair manual for procedures that vary by vehicle model.

(a) Lift the vehicle. [\*1]

##### Notice:

Set the vehicle on a lift so that the vehicle is kept level when it is lifted up (make sure that the tilt angle from the front to rear of the vehicle is within +/- 1°).

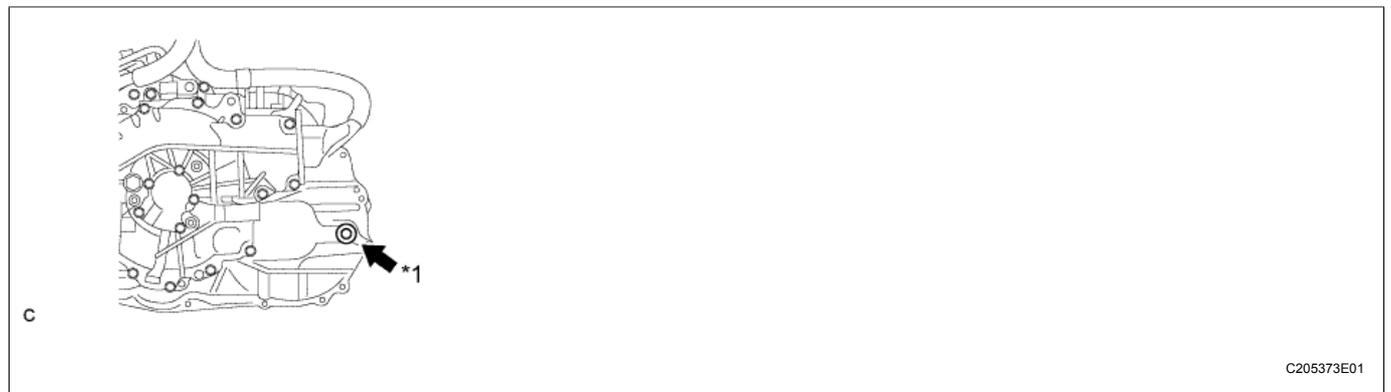
(b) Remove the No. 1 engine under cover.

(c) Using a 10 mm hexagon socket wrench, remove the filler plug and gasket. [\*2]

##### Text in Illustration

*1	Filler Plug
----	-------------

(d) Using a 10 mm hexagon socket wrench, remove the drain plug and gasket. [\*3]



##### Text in Illustration

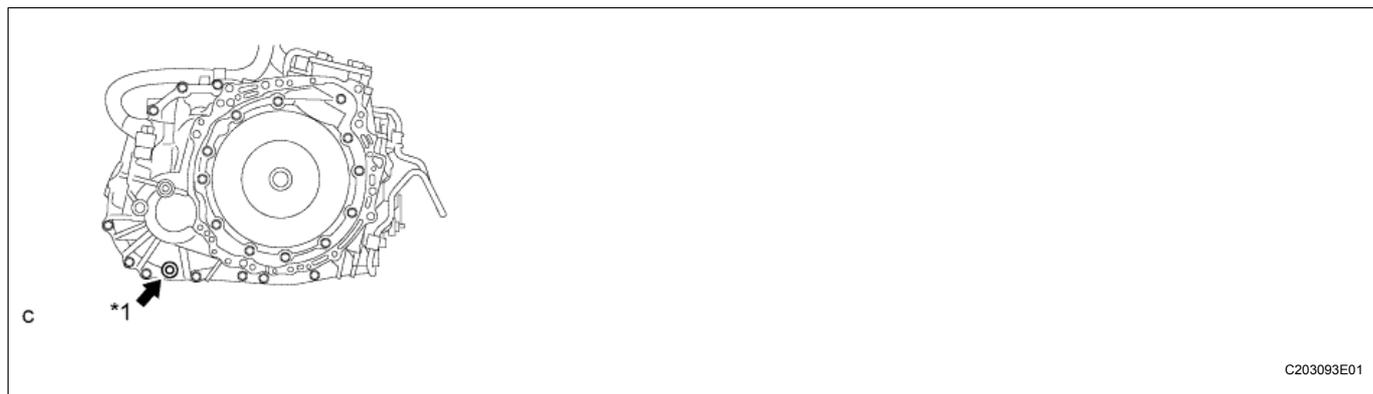
*1	Drain Plug
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(e) Drain the transaxle fluid. [\*4]

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(f) Using a 10 mm hexagon socket wrench, temporarily install the gasket and drain plug. [\*5]

## Hint:

Reuse the old gasket. The plug will be removed again to adjust the fluid level.

(g) Add transaxle fluid until the fluid level is between 0 to 5 mm (0 to 0.197 in.) from the bottom lip of the filler plug opening. [\*6]

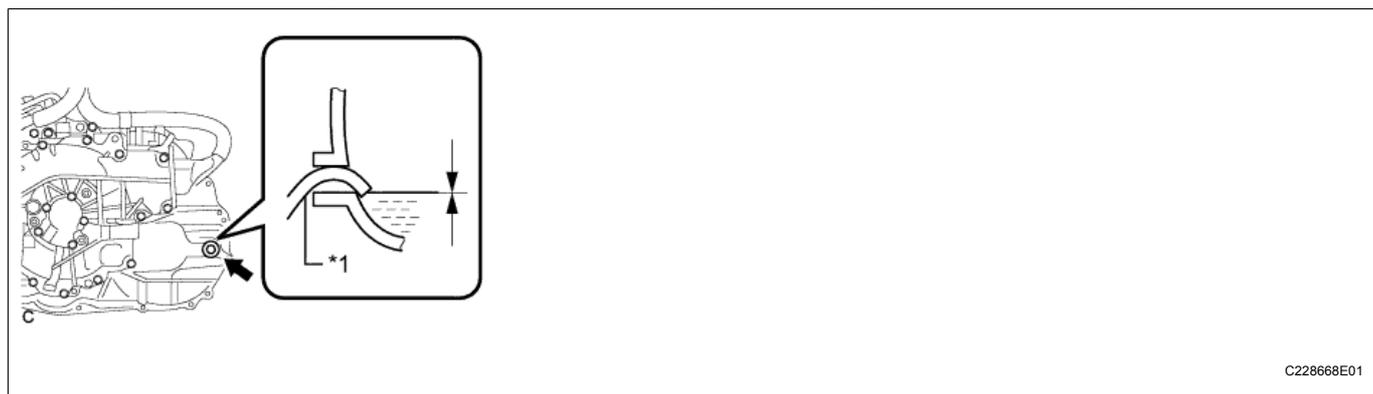
## Notice:

- Use Toyota Genuine ATF WS.
- Be sure to fully insert the filler nozzle into the filler plug opening.
- Be sure to add fluid slowly. If fluid is added quickly, the fluid may hit internal parts and bounce back, resulting in fluid coming out of the filler plug opening.

## Text in Illustration

*1	Filler Nozzle
----	---------------

(h) Using a 10 mm hexagon socket wrench, temporarily install the gasket and filler plug. [\*7]



## Hint:

Reuse the old gasket. The plug will be removed again to adjust the fluid level.

(i) Lower the vehicle. [\*8]

(j) Put the engine in inspection mode. [\*9]

## Hint:

Refer to the repair manual of the corresponding vehicle model for inspection mode.

- (k) Start the engine by turning the power switch on (READY) while depressing the brake pedal. [\*10]
- (l) With the power switch on (READY), wait for 30 seconds. [\*11]
- (m) Turn the power switch off. [\*12]
- (n) Repeat steps [\*1] to [\*12].
- (o) Repeat steps [\*1] to [\*8].
- (p) Adjust the fluid level.

**Hint:**

Refer to the corresponding repair manual for fluid level adjustment.

- (q) Install the No. 1 engine under cover.
- (r) Lower the vehicle.
- (s) Operation complete.

**2. REPLACE HYBRID TRANSMISSION FLUID****Hint:**

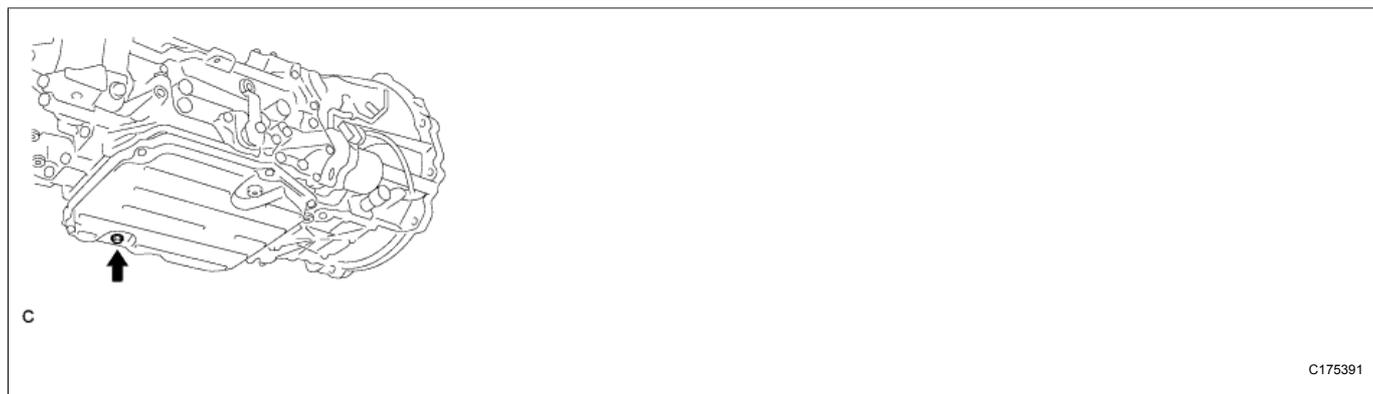
The following procedure is for GS450h and is provided as an example. Refer to the corresponding repair manual for procedures that vary by vehicle model.

- (a) Lift the vehicle. [\*1]

**Notice:**

Set the vehicle on a lift so that the vehicle is kept level when it is lifted up (make sure that the tilt angle from the front to rear of the vehicle is within +/- 1°).

- (b) Remove the No. 2 engine under cover.
- (c) Remove the drain plug and gasket, and drain the ATF. [\*2]
- (d) Temporarily install the gasket and drain plug. [\*3]



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**Hint:**

Reuse the old gasket. The plug will be removed again to adjust the fluid level.

- (e) Remove the refill plug. [\*4]

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- (f) Add fluid to the refill hole using the amount of fluid specified for removal and installation of the oil pan.  
[\*5]



## Notice:

Use Toyota Genuine ATF WS.

## Hint:

Specified amount of fluid is 5.0 liters (5.3 US qts, 4.4 Imp. qts).

- (g) Temporarily install the gasket and refill plug. [\*6]

## Hint:

Reuse the old gasket. The plug will be removed again to adjust the fluid level.

- (h) Lower the vehicle. [\*7]

- (i) Turn the power switch on (READY) and wait for 30 seconds. [\*8]

- (j) Turn the power switch off. [\*9]

- (k) Repeat steps [\*1] to [\*9].

- (l) Repeat steps [\*1] to [\*7].

- (m) Install a new gasket and the drain plug.

## Torque:

20 N\*m 204 Kgf\*cm 15 ft.\*lbf

- (n) Adjust the fluid level.

## Hint:

Refer to the corresponding repair manual for fluid level adjustment.

- (o) Install the No. 2 engine under cover.

- (p) Lower the vehicle.

- (q) Operation complete.