

SHIFT SOLENOIDS, DUTY SOLENOIDS AND ATF TEMPERATURE SENSOR

Automatic Transmission

15. Shift Solenoids, Duty Solenoids and ATF Temperature Sensor

S502227

A: REMOVAL

S502227A18

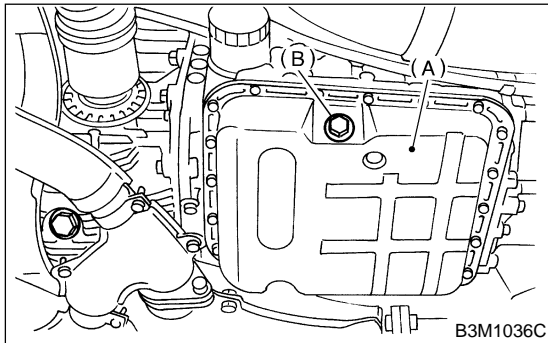
- 1) Clean transmission exterior.
- 2) Drain ATF completely.

NOTE:

Tighten ATF drain plug after draining ATF.

Tightening torque:

25 N·m (2.5 kgf·m, 18.1 ft·lb)



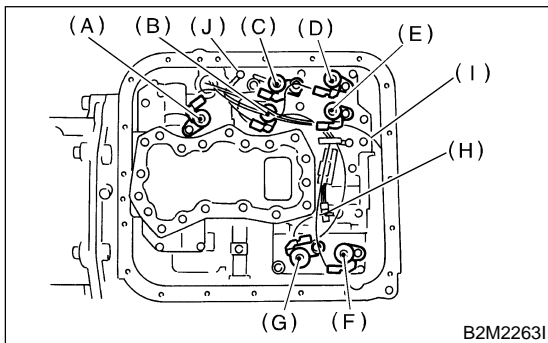
- (A) Oil pan
- (B) Drain plug

- 3) Remove oil pan.

NOTE:

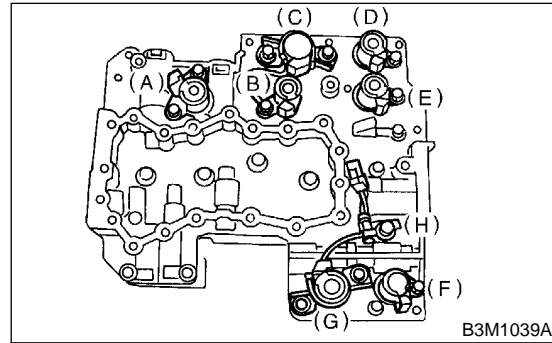
Drain oil into a container.

- 4) Disconnect solenoid and sensor connectors. Remove connectors from clip and disconnect connectors at 8 places.



- (A) Lock-up duty solenoid (Blue)
- (B) Low clutch timing solenoid (Gray)
- (C) Line pressure duty solenoid (Red)
- (D) Shift solenoid 2 (Yellow)
- (E) Shift solenoid 1 (Green)
- (F) 2-4 brake timing solenoid (Black)
- (G) 2-4 brake duty solenoid (Red)
- (H) ATF temperature sensor
- (I) Transfer duty solenoid (Brown)
- (J) Transmission ground

- 5) Remove solenoids, duty solenoids and ATF temperature sensor.



- (A) Lock-up duty solenoid (Blue)
- (B) Low clutch timing solenoid (Gray)
- (C) Line pressure duty solenoid (Red)
- (D) Shift solenoid 2 (Yellow)
- (E) Shift solenoid 1 (Green)
- (F) 2-4 brake timing solenoid (Black)
- (G) 2-4 brake duty solenoid (Red)
- (H) ATF temperature sensor

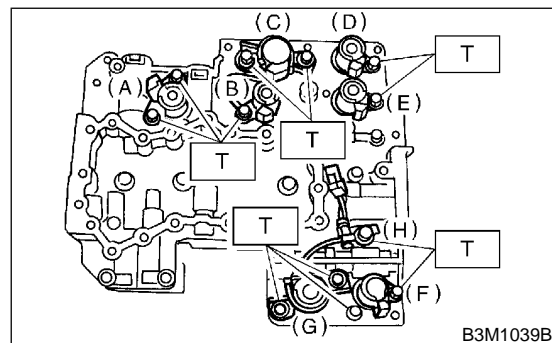
B: INSTALLATION

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- 1) Install solenoids and ATF temperature sensor.

Tightening torque:

T: 8 N·m (0.8 kgf·m, 5.8 ft·lb)

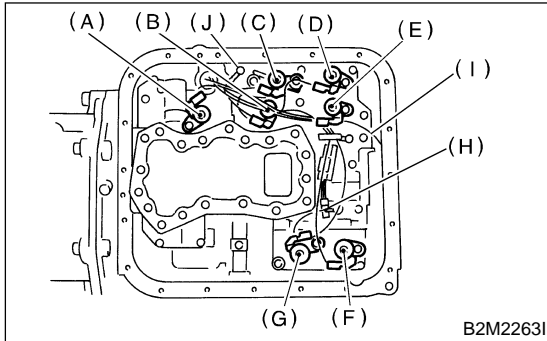


- (A) Lock-up duty solenoid (Blue)
- (B) Low clutch timing solenoid (Gray)
- (C) Line pressure duty solenoid (Red)
- (D) Shift solenoid 2 (Yellow)
- (E) Shift solenoid 1 (Green)
- (F) 2-4 brake timing solenoid (Black)
- (G) 2-4 brake duty solenoid (Red)
- (H) ATF temperature sensor

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2) Connect harness connectors at 8 places. Connect connectors of same color, and secure connectors to valve body using clips.

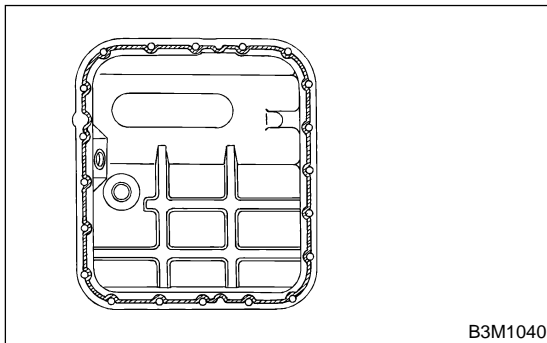


- (A) Lock-up duty solenoid (Blue)
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- (D) Shift solenoid 2 (Yellow)
- (E) Shift solenoid 1 (Green)
- (F) 2-4 brake timing solenoid (Black)
- (G) 2-4 brake duty solenoid (Red)
- (H) ATF temperature sensor
- (I) Transfer duty solenoid (Brown)
- (J) Transmission ground

3) Apply proper amount of liquid gasket to the entire oil pan mating surface.

Fluid packing:

Tree Bond 1217B

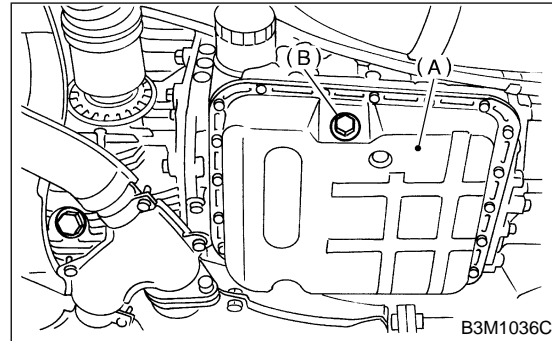


B3M1040

4) Install oil pan.

Tightening torque:

4.9 N·m (0.50 kgf-m, 3.6 ft-lb)



- (A) Oil pan
- (B) Drain plug

5) Fill ATF up to the middle of the "COLD" side on level gauge by using the gauge hole.

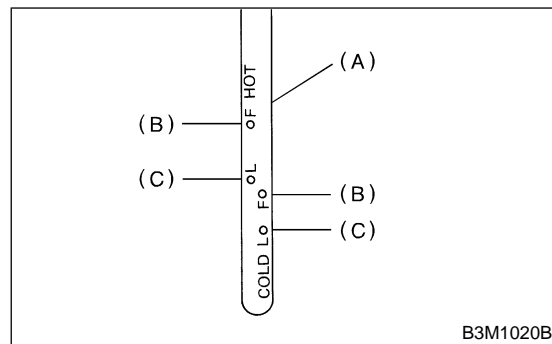
Recommended fluid:

Dexron III type automatic transmission fluid

Fluid capacity:

9.3 — 9.6 l (9.8 — 10.1 US qt, 8.2 — 8.4 Imp qt)

6) Run the vehicle until the ATF temperature rises from 60 to 80°C (140 to 176°F) and check the ATF level of the "HOT" side on level gauge.



- (A) ATF level gauge
- (B) Upper level
- (C) Lower level