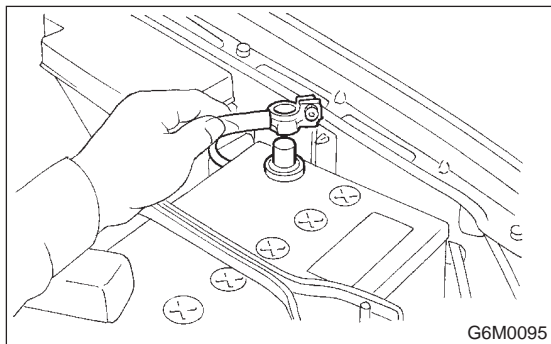


13. Front and Rear Vehicle Speed Sensor, Torque Converter Turbine Speed Sensor and Harness Assembly

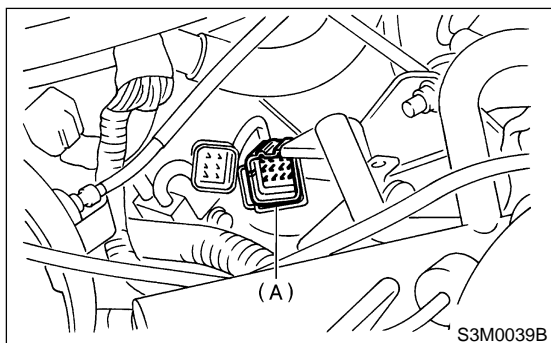
S502680

A: REMOVAL S502680A18

- 1) Disconnect battery ground cable.



- 2) Disconnect transmission connector.



(A) Transmission connector

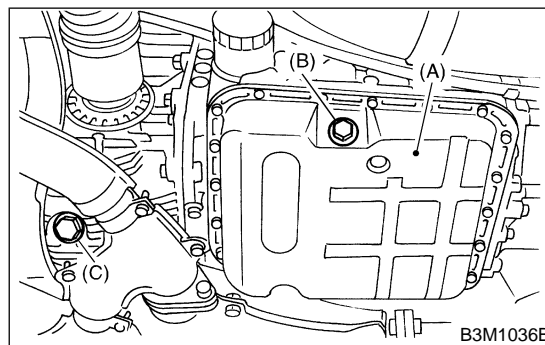
- 3) Remove the transmission connector from stay.
- 4) Lift-up the vehicle.
- 5) Clean transmission exterior.
- 6) Drain ATF completely.

NOTE:

Tighten ATF drain plug after draining ATF.

Tightening torque:

25 N·m (2.5 kgf·m, 18.1 ft·lb)

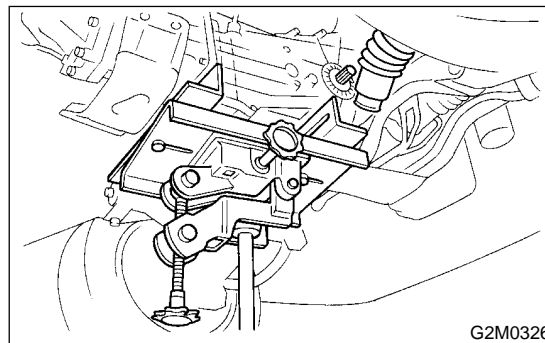


- (A) Oil pan
- (B) Drain plug
- (C) Differential oil drain plug

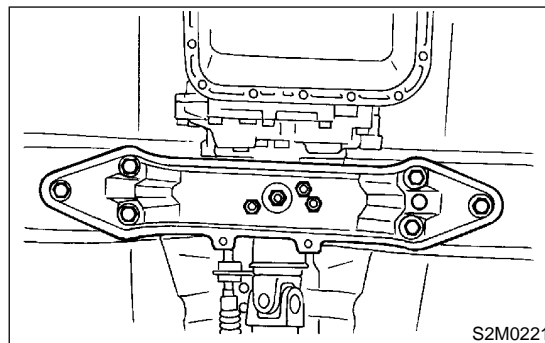
- 7) Remove front, center, exhaust pipes and muffler.
- 8) Remove the shield cover.
- 9) Remove the propeller shaft. <Ref. to DS-13 REMOVAL, Proppeller Shaft.>
- 10) Place transmission jack under transmission.

CAUTION:

- Always support transmission case with a transmission jack.
- On AT vehicle, make sure that the support plates of transmission jack don't touch the oil pan.



- 11) Remove the transmission rear crossmember bolts.



- 12) Lower the AT jack.

NOTE:

Do not separate the AT jack and transmission.

FRONT AND REAR VEHICLE SPEED SENSOR, TORQUE CONVERTER TURBINE SPEED SENSOR AND HARNESS ASSEMBLY

Automatic Transmission

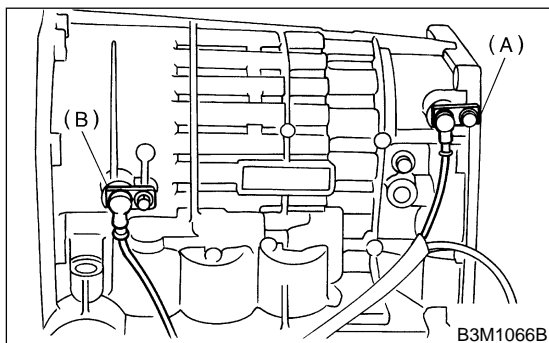
13) Remove the oil cooler outlet pipe.

CAUTION:

When removing outlet pipe, be careful not to lose balls and springs used with retaining screws.

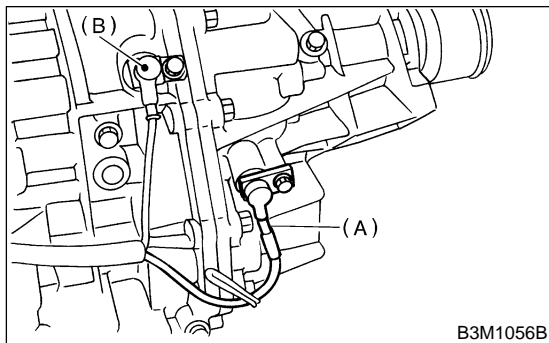
14) Remove front and rear vehicle speed sensor, and torque converter turbine speed sensor with harness assembly.

● Front vehicle speed sensor and torque converter turbine speed sensor



- (A) Front vehicle speed sensor
- (B) Torque converter turbine speed sensor

● Rear vehicle speed sensor



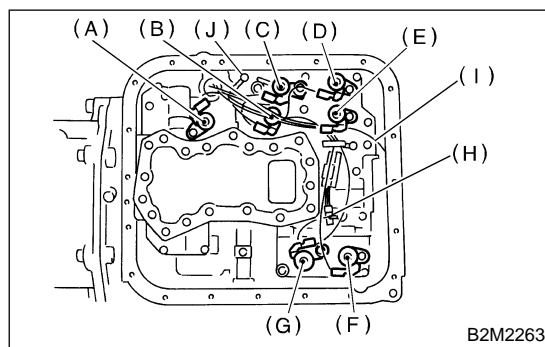
- (A) Rear vehicle speed sensor
- (B) Front vehicle speed sensor

15) Remove oil pan.

NOTE:

Drain oil into a container.

16) Disconnect duty solenoids and ATF temperature sensor connectors. Remove connectors from clip and disconnect connectors at 9 places.



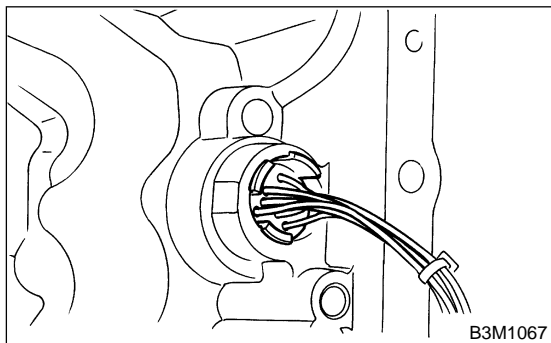
- (A) Lock-up duty solenoid (Blue)
- (B) Low clutch timing solenoid (Gray)
- (C) Line pressure duty solenoid (Red)
- (D) Shift solenoid 2 (Yellow)
- (E) Shift solenoid 1 (Green)
- (F) 2-4 brake timing solenoid (Black)
- (G) 2-4 brake duty solenoid (Red)
- (H) ATF temperature sensor
- (I) Transfer duty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

FRONT AND REAR VEHICLE SPEED SENSOR, TORQUE CONVERTER TURBINE SPEED SENSOR AND HARNESS ASSEMBLY

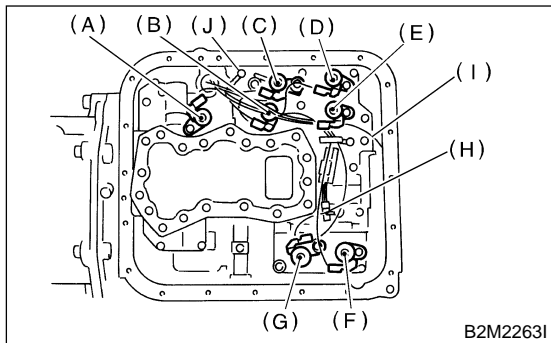
Automatic Transmission

B: INSTALLATION S502680A11

1) Pass the harness assembly through the hole in the transmission case.



2) Connect harness connectors at 9 places. Connect connectors of same color, and secure connectors to valve body using clips.

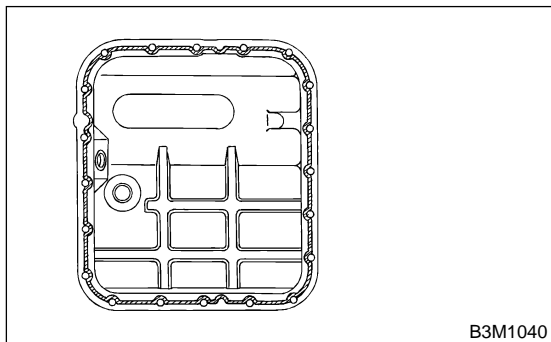


- (A) Lock-up duty solenoid (Blue)
- (B) Low clutch timing solenoid (Gray)
- (C) Line pressure duty solenoid (Red)
- (D) Shift solenoid 2 (Yellow)
- (E) Shift solenoid 1 (Green)
- (F) 2-4 brake timing solenoid (Black)
- (G) 2-4 brake duty solenoid (Red)
- (H) ATF temperature sensor
- (I) Transfer duty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

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

Fluid packing:

Three Bond 1217B



4) Install the oil pan.

Tightening torque:

25 N·m (2.5 kgf-m, 18.1 ft-lb)

5) Install the front and rear vehicle speed sensor, and also the torque converter turbine speed sensor, and then fasten the harness.

Tightening torque:

7 N·m (0.7 kgf-m, 5.1 ft-lb)

6) Install oil cooler outlet pipe.

CAUTION:

Be sure to use a new aluminum washer.

Tightening torque:

25 N·m (2.5 kgf-m, 18.1 ft-lb)

7) Install transmission rear crossmember bolts.

Tightening torque:

75 N·m (7.6 kgf-m, 55 ft-lb)

8) Install propeller shaft.

9) Install shield cover.

10) Install front, center, rear exhaust pipe and muffler.

11) Install the transmission connector to the stay.