

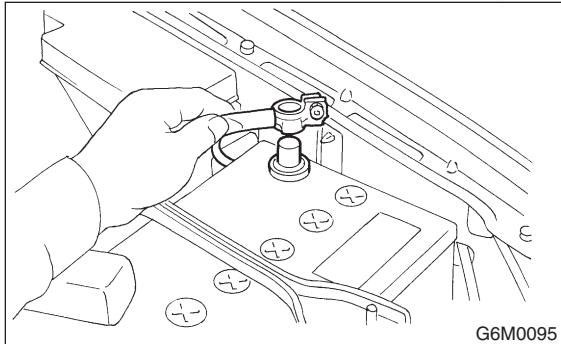
## 12. Vehicle Speed Sensor 1, 2, Torque Converter Turbine Speed Sensor and Harness Assembly

S502563

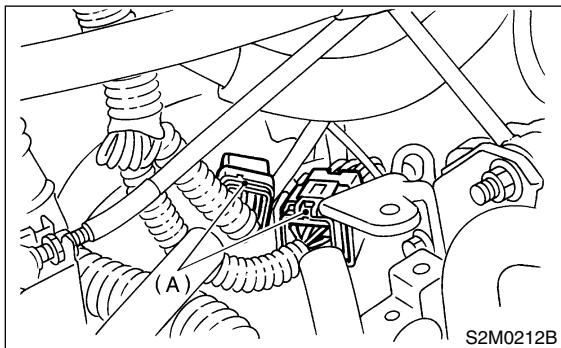
### A: REMOVAL

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- 1) Disconnect battery ground cable.



- 2) Disconnect transmission connector.



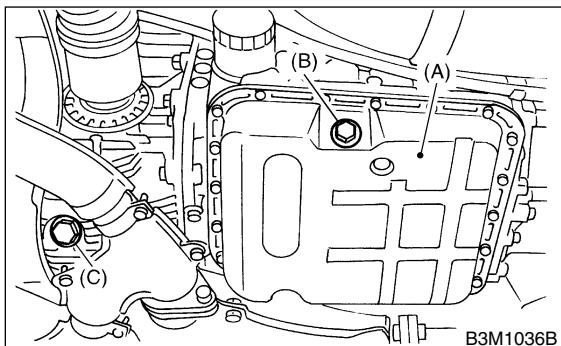
- 3) Remove the transmission connector from stay.
- 4) Lift-up the vehicle.
- 5) Clean transmission exterior.
- 6) Drain ATF completely.

NOTE:

Tighten ATF drain plug after draining ATF.

**Tightening torque:**

25 N·m (2.5 kgf·m, 18.1 ft-lb)

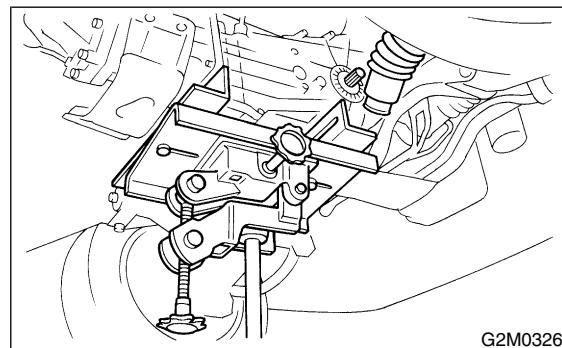


(D) Oil pan  
 (E) Drain plug  
 (F) Differential oil drain plug

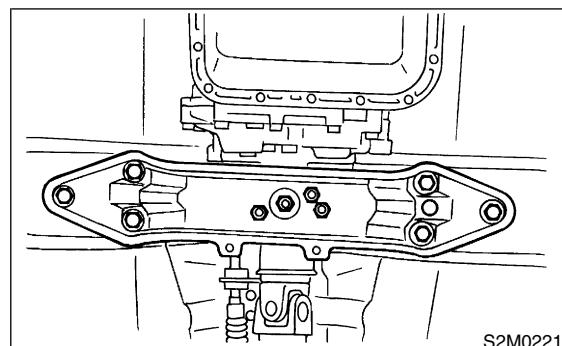
- 7) Remove the propeller shaft. <Ref. to DS-13 REMOVAL, Propeller Shaft. >
- 8) Remove the shield cover.
- 9) Place transmission jack under transmission.

**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.



- 10) Remove the transmission rear crossmember bolts.



- 11) Lower the AT jack.

NOTE:

Do not separate the AT jack and transmission.

- 12) Remove the oil cooler outlet pipe.

**CAUTION:**

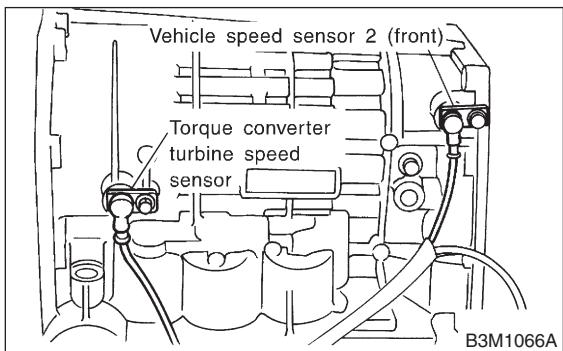
When removing outlet pipe, be careful not to lose balls and springs used with retaining screws.

# VEHICLE SPEED SENSOR 1, 2, TORQUE CONVERTER TURBINE SPEED SENSOR AND HARNESS ASSEMBLY

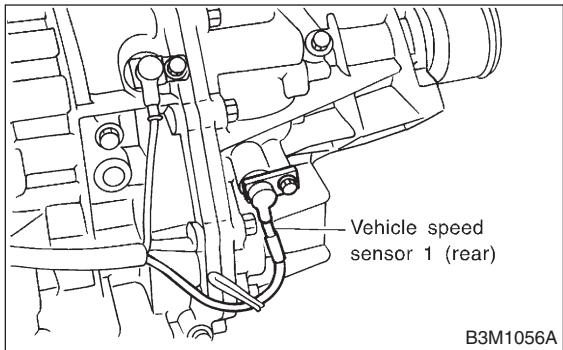
## Automatic Transmission

13) Remove vehicle speed sensor 1, 2, and torque converter turbine speed sensor with harness assembly.

### • Vehicle speed sensor 2 and torque converter turbine speed sensor



### • Vehicle speed sensor 1

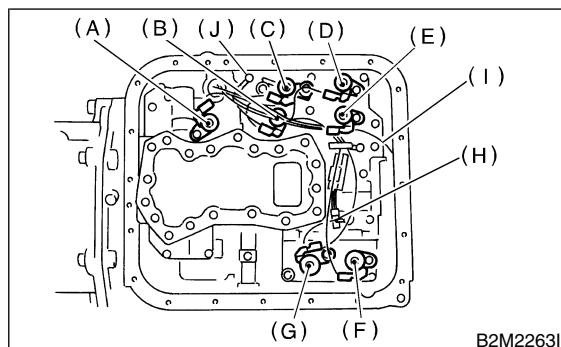


14) Remove oil pan.

NOTE:

Drain oil into a container.

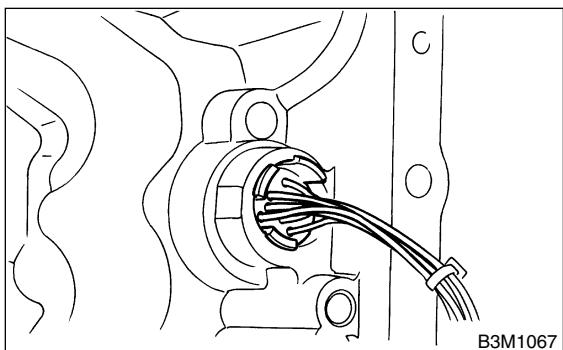
15) Disconnect duty solenoids and ATF temperature sensor connectors. Remove connectors from clip and disconnect connectors at 8 places.



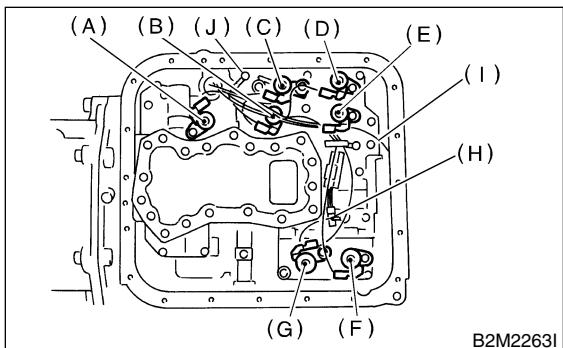
### B: INSTALLATION

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

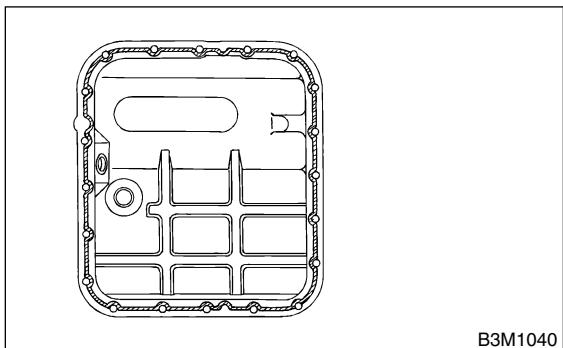


- 2) Connect harness connectors at 9 places. Connect connectors of same color, and secure connectors to valve body sing clips.



- (A) Lock-up duty solenoid (Blue)
- (B) Low clutch timing solenoid (Gray)
- (C) Lining 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 (THREE BOND Part No. 1217B) to the entire oil pan mating surface.



- 4) Install the oil pan.

#### **Tightening torque:**

**25 N·m (2.5 kgf·m, 18.1 ft-lb)**

- 5) Install the vehicle speed sensor 1 and 2, 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. <Ref. to AT-25 INSTALLATION, Oil Cooler Pipes.>
- 7) Install transmission rear crossmember bolts.

#### **Tightening torque:**

**69 N·m (7.0 kgf·m, 51 ft-lb)**

- 8) Install shield cover.
- 9) Install propeller shaft. <Ref. to DS-14 INSTALLATION, Propeller Shaft.>
- 10) Install the transmission connector to the stay.