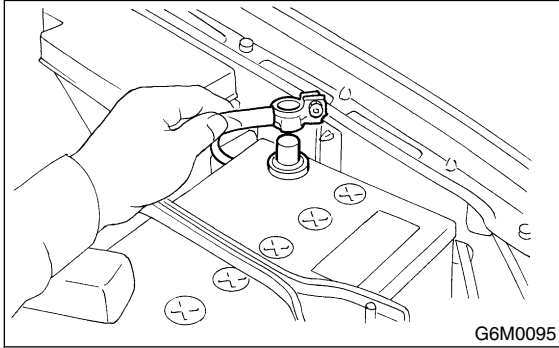


13. Front Vehicle Speed Sensor

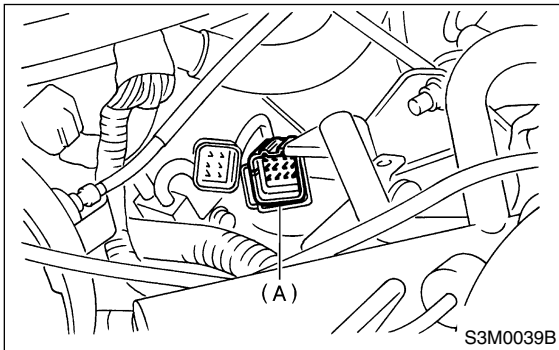
S502709

A: REMOVAL S502709A18

- 1) Set up the vehicle on the lift.
- 2) Disconnect battery ground cable.



- 3) Remove air cleaner case or intake chamber.
2.5 L model
<Ref. to IN-6, REMOVAL, Air Cleaner Case.>
3.0 L model
<Ref. to IN(H6)-6, REMOVAL, Air Intake Chamber.>
- 4) Disconnect transmission connector.



(A) Transmission connector

- 5) Remove pitching stopper.
<Ref. to AT-26, REMOVAL, Transmission Mounting System.>
- 6) Remove the transmission connector from stay.
- 7) Lift-up the vehicle.
- 8) Clean transmission exterior.

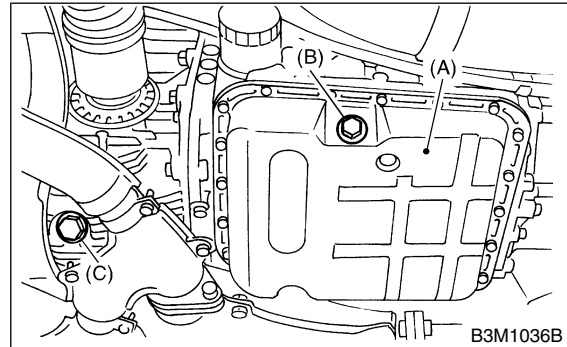
- 9) Drain ATF completely.

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

- 10) Remove front, center, rear exhaust pipes and muffler.

2.5 L model

<Ref. to EX-5, REMOVAL, Front Exhaust Pipe.>
<Ref. to EX-9, REMOVAL, Rear Exhaust Pipe.>
and <Ref. to EX-10, REMOVAL, Muffler.>

3.0 L model

<Ref. to EX(H6)-5, REMOVAL, Front Exhaust Pipe.>, <Ref. to EX(H6)-8, REMOVAL, Rear Exhaust Pipe.> and <Ref. to EX(H6)-9, REMOVAL, Muffler.>

- 11) Remove the shield cover.

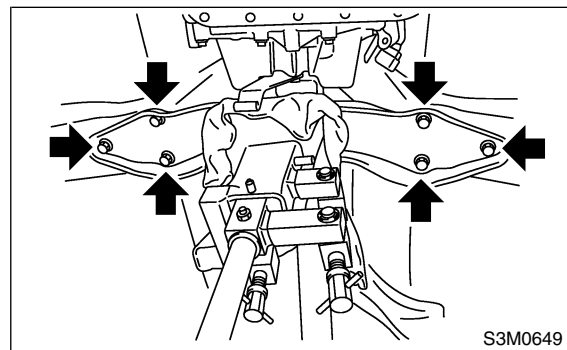
12) Remove the propeller shaft. <Ref. to DS-13, REMOVAL, Propeller Shaft.>

- 13) Place transmission jack under crossmember.

NOTE:

Make sure that the support plates of transmission jack don't touch the crossmember.

- 14) Remove the transmission rear crossmember bolts.



- 15) Lower the AT jack.

NOTE:

Do not separate the AT jack and transmission.

FRONT VEHICLE SPEED SENSOR

Automatic Transmission

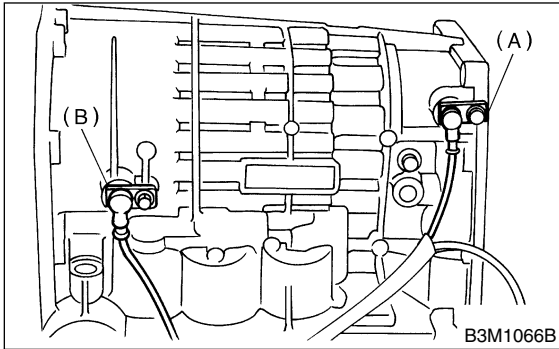
16) Remove the oil cooler outlet pipe.

NOTE:

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

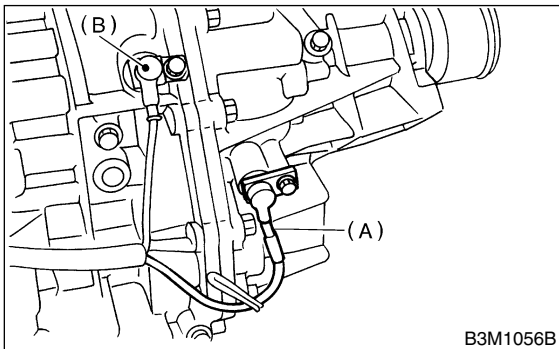
17) Remove front and rear vehicle speed sensor and torque converter turbine speed sensor.

● **Front vehicle speed sensor and torque converter turbine speed sensor**



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

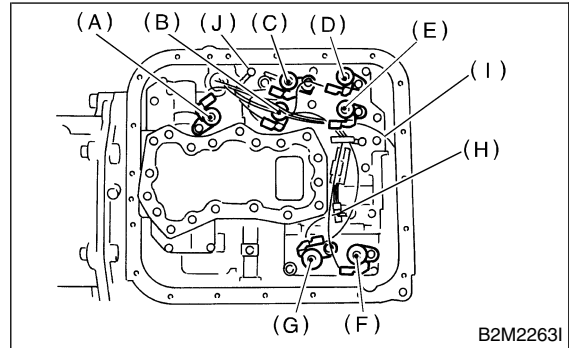
● **Rear vehicle speed sensor**



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

18) Remove oil pan.

19) Disconnect duty solenoids and ATF temperature sensor connectors. Remove connectors from clip and disconnect connectors.

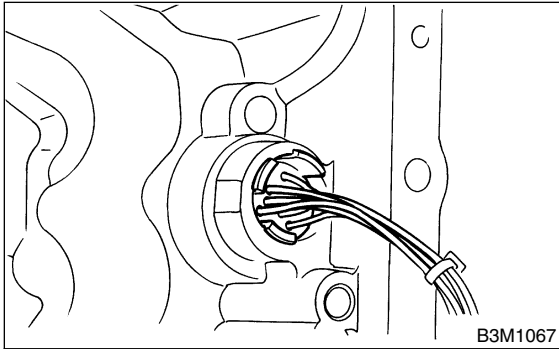


- (A) Lock-up duty solenoid (Blue)
- (B) Low clutch timing solenoid (Gray)
- (C) Line pressure duty solenoid (Red)
- (D) Shift solenoid 2 (Yellow)
- (E) Shift solenoid 1 (Green)
- (F) 2-4 brake timing solenoid (Black)
- (G) 2-4 brake duty solenoid (Red)
- (H) ATF temperature sensor
- (I) Transfer duty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

20) Remove harness assembly.

B: INSTALLATION S502709A11

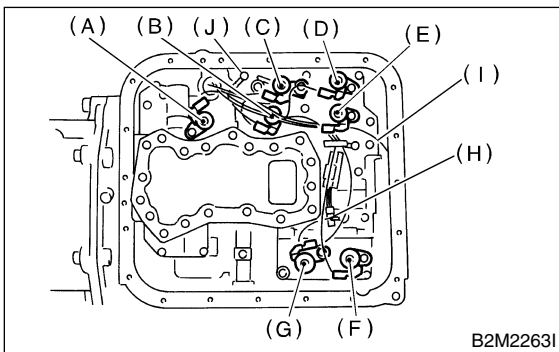
1) Pass the harness assembly through the hole in the transmission case.



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

Tightening torque (Transmission ground terminal):

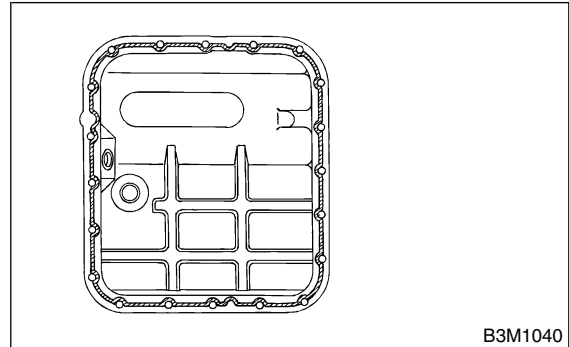
8 N-m (0.8 kgf-m, 5.8 ft-lb)



- (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
- (I) Transfer duty solenoid (Brown)
- (J) Transmission ground

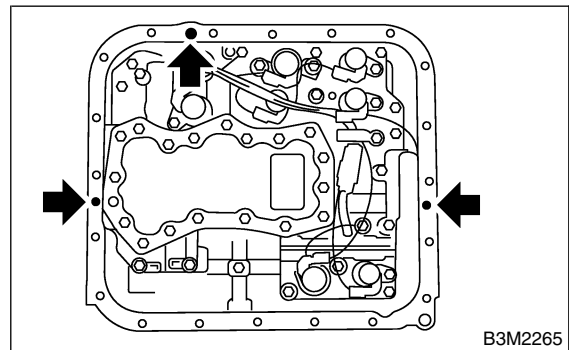
3) Apply proper amount of liquid gasket to the entire oil pan mating surface.

Fluid packing:
THREE BOND 1217B



4) Apply liquid gasket fully to 3 holes other than screw holes on the transmission case.

Fluid packing:
THREE BOND 1217B



5) Install the oil pan.

Tightening torque:
25 N-m (2.5 kgf-m, 18.1 ft-lb)

6) 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)

7) Install oil cooler outlet pipe.

NOTE:

Be sure to use a new aluminum washer.

Tightening torque:
25 N-m (2.5 kgf-m, 18.1 ft-lb)

8) Install transmission rear crossmember bolts.

Tightening torque:
75 N-m (7.6 kgf-m, 55 ft-lb)

9) Install propeller shaft. <Ref. to DS-14, INSTALLATION, Propeller Shaft.>

10) Install shield cover.

FRONT VEHICLE SPEED SENSOR

Automatic Transmission

11) Install front, center, rear exhaust pipes and muffler.

2.5 L model

<Ref. to EX-6, INSTALLATION, Front Exhaust Pipe.>, <Ref. to EX-9, INSTALLATION, Rear Exhaust Pipe.> and <Ref. to EX-10, INSTALLATION, Muffler.>

3.0 L model

<Ref. to EX(H6)-6, INSTALLATION, Front Exhaust Pipe.>, <Ref. to EX(H6)-8, INSTALLATION, Rear Exhaust Pipe.> and <Ref. to EX(H6)-9, INSTALLATION, Muffler.>

12) Lower the vehicle.

13) Install the transmission connector to the stay.

14) Install pitching stopper.

<Ref. to AT-26, PITCHING STOPPER, INSPECTION, Transmission Mounting System.>

15) Install air cleaner case or air intake chamber.

2.5 L model

<Ref. to IN-6, INSTALLATION, Air Cleaner Case.>

3.0 L model

<Ref. to IN(H6)-6, INSTALLATION, Air Intake Chamber.>