

27. Fuel Sub Level Sensor

A: REMOVAL

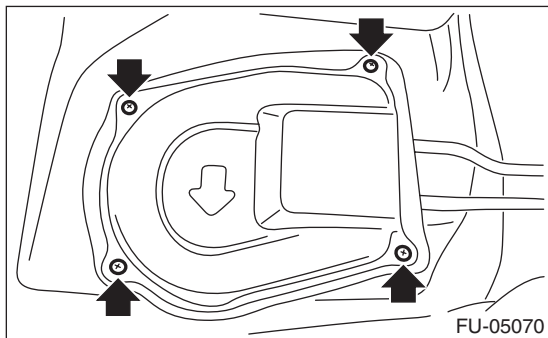
WARNING:

Place "NO OPEN FLAMES" signs near the working area.

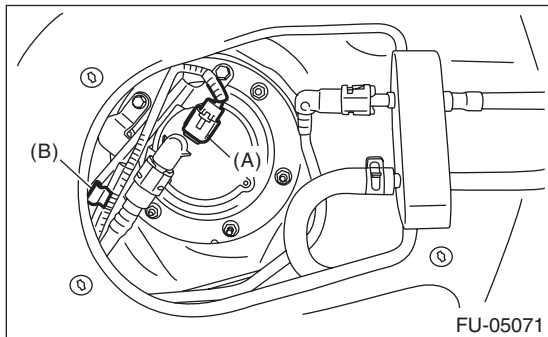
CAUTION:

- Be careful not to spill fuel.
- Catch the fuel from the tubes using a container or cloth.
- If the fuel gauge indicates that two thirds or more of the fuel is remaining, be sure to drain fuel before starting work to avoid the fuel to spill.

- 1) Release the fuel pressure. <Ref. to FU(H6DO)-59, RELEASING OF FUEL PRESSURE, PROCEDURE, Fuel.>
- 2) Drain fuel. <Ref. to FU(H6DO)-59, DRAINING FUEL (WITH SUBARU SELECT MONITOR), PROCEDURE, Fuel.>
- 3) Disconnect the ground cable from battery.
- 4) Remove the rear seat cushion. <Ref. to SE-34, REMOVAL, Rear Seat.>
- 5) Remove the service hole cover.

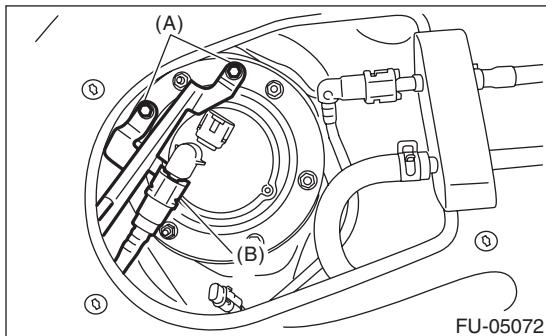


- 6) Disconnect the connector (A) from fuel sub level sensor, and remove the clip (B) securing the fuel cord from fuel sub level sensor protector.

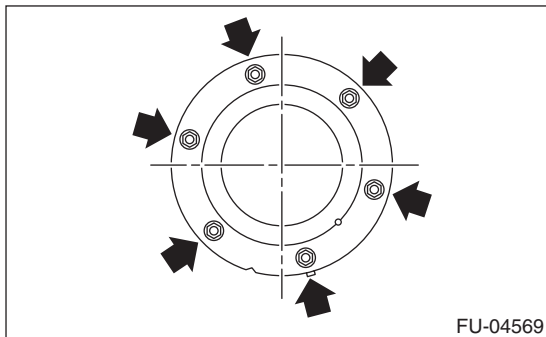


- 7) Remove the bolts (A) securing the fuel sub level sensor protector to the fuel sub level sensor upper plate, and remove the fuel sub level sensor protector.

- 8) Disconnect the quick connector on the fuel sub delivery tube (B). <Ref. to FU(H6DO)-80, REMOVAL, Fuel Delivery and Evaporation Lines.>



- 9) Remove the nuts securing the fuel sub level sensor upper plate to the fuel tank and remove the fuel sub level sensor upper plate.



- 10) Remove the fuel sub level sensor from the fuel tank.

Fuel Sub Level Sensor

FUEL INJECTION (FUEL SYSTEMS)

B: INSTALLATION

Install in the reverse order of removal while being careful of the following.

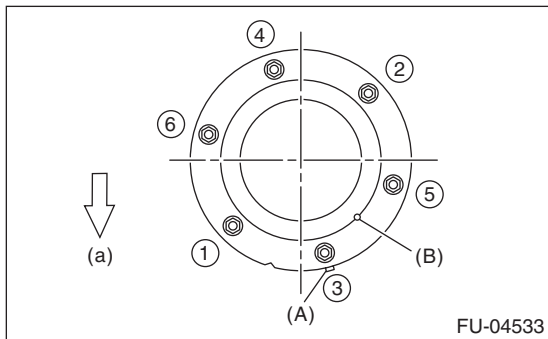
- Make sure the sealing portion is free from fuel or foreign matter before installation.
- Align protrusion (A) of the gasket to the position shown in the figure.
- Align protrusion (B) of the fuel sub level sensor to the cutout in the fuel sub level sensor upper plate.
- After tightening the bolts to the specified torque in the order indicated in the figure, install the fuel sub level sensor protector.

NOTE:

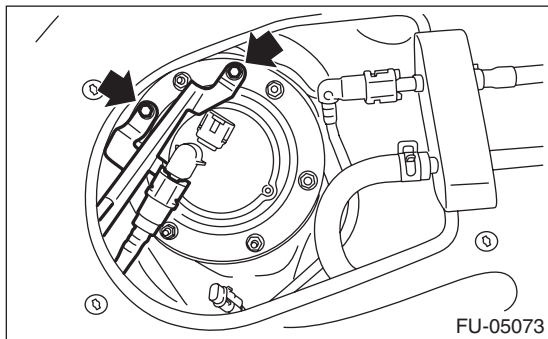
Use a new gasket.

Tightening torque:

4.4 N·m (0.4 kgf·m, 3.2 ft·lb)



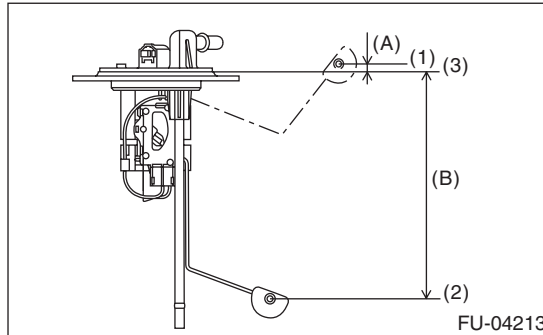
(a) Front side of vehicle



FU-05073

C: INSPECTION

- 1) Check that the fuel sub level sensor has no damage.
- 2) Measure the fuel sub level sensor float position.

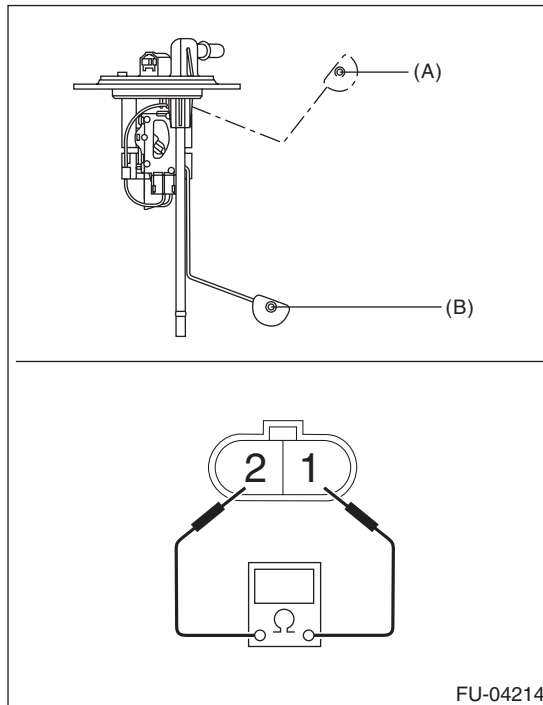


FU-04213

- (1) FULL
- (2) EMPTY
- (3) Datum points

Float position	Standard
FULL to Datum point (A)	6.4±3.5 mm (0.252±0.138 in)
EMPTY to Datum point (B)	163.3±3.5 mm (6.429±0.138 in)

- 3) Measure the resistance between fuel sub level sensor terminals.



FU-04214

Float position	Terminal No.	Standard
FULL (A)	1 and 2	8.7±1.0 Ω
EMPTY (B)		270.9±4.0 Ω