

27. Fuel Sub Level Sensor

A: REMOVAL

WARNING:

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

CAUTION:

- Be careful not to spill fuel.
- 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.

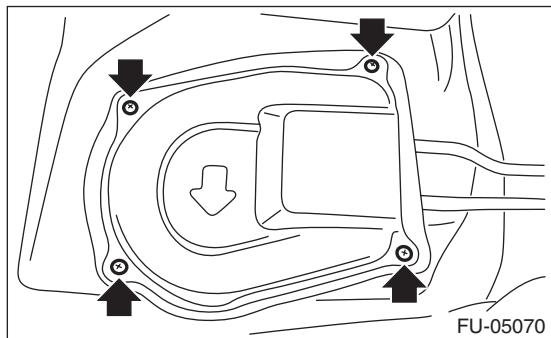
1) Release the fuel pressure. <Ref. to FU(H6DO)-57, RELEASING OF FUEL PRESSURE, PROCEDURE, Fuel.>

2) Drain fuel. <Ref. to FU(H6DO)-57, DRAINING FUEL (WITH SUBARU SELECT MONITOR), PROCEDURE, Fuel.>

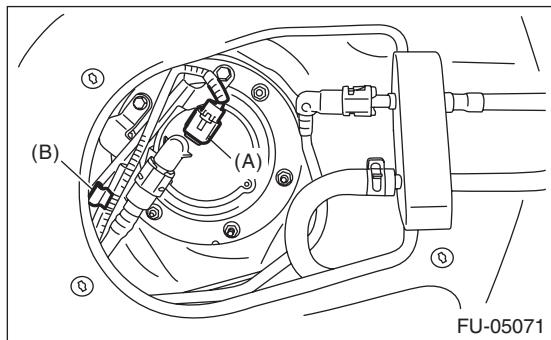
3) Disconnect the ground cable from battery.

4) Remove the rear seat cushion. <Ref. to SE-32, REMOVAL, Rear Seat.>

5) Remove the service hole cover.

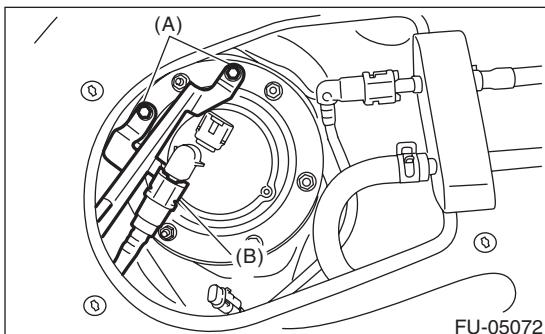


6) Disconnect the connector (A) from fuel sub level sensor, and remove the clip (B) securing the fuel cord from fuel sub level sensor protector.

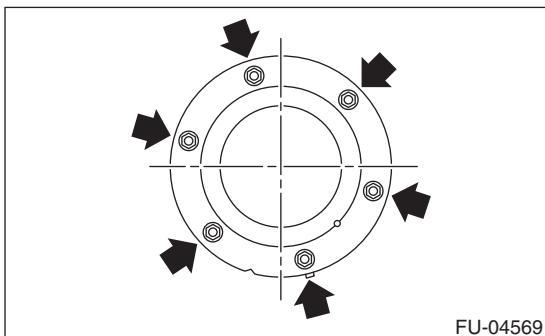


7) Remove the bolts (A) securing the fuel sub level sensor protector to the fuel sub level sensor upper plate, and remove the fuel sub level sensor protector.

8) Disconnect the quick connector on the fuel sub delivery tube (B). <Ref. to FU(H6DO)-78, 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.

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:

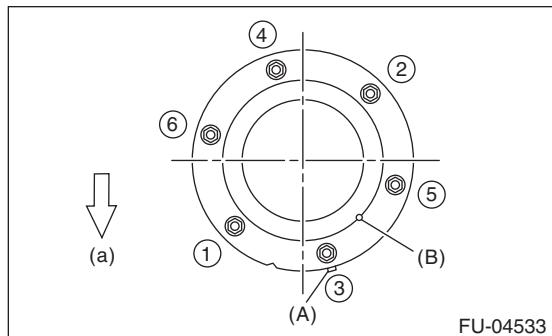
Use a new gasket.

Fuel Sub Level Sensor

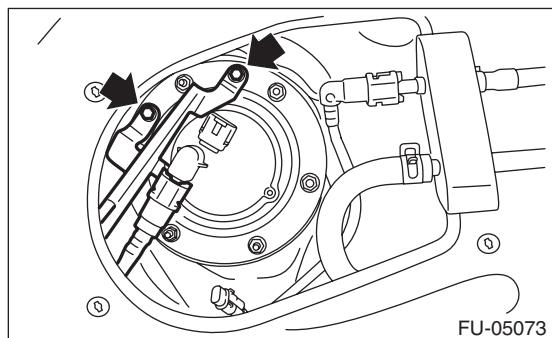
FUEL INJECTION (FUEL SYSTEMS)

Tightening torque:

4.4 N·m (0.4 kgf-m, 3.2 ft-lb)



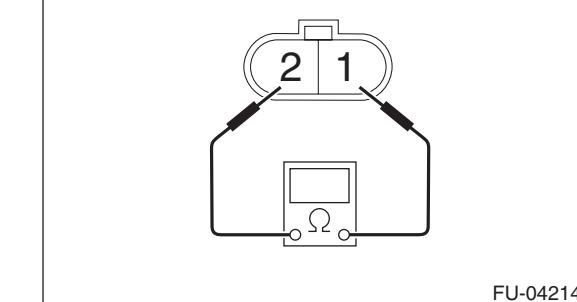
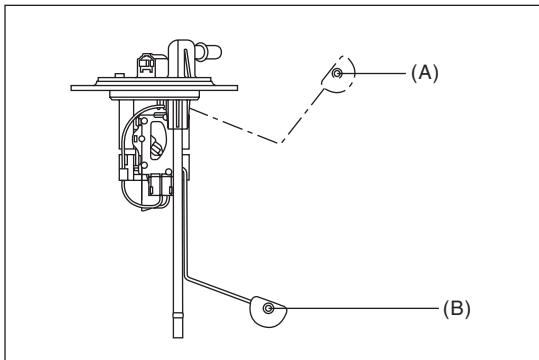
(a) Front side of vehicle



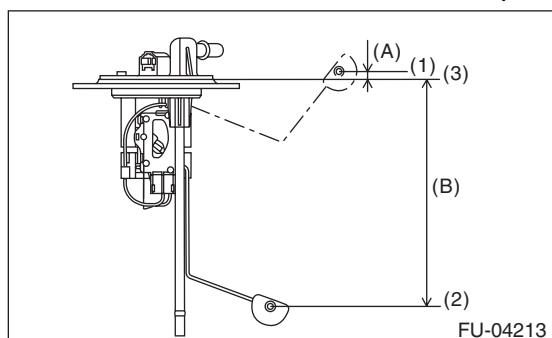
C: INSPECTION

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

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



| Float position | Terminal No. | Standard |
|----------------|--------------|----------------------------|
| FULL (A) | 1 and 2 | $2.0^{+0.5}_{-1.0} \Omega$ |
| EMPTY (B) | | $62.1 \pm 1.0 \Omega$ |



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

| Float position | Standard |
|--------------------------|--|
| FULL to Datum point (A) | $6.4 \pm 3.5 \text{ mm (} 0.252 \pm 0.138 \text{ in)}$ |
| EMPTY to Datum point (B) | $163.3 \pm 3.5 \text{ mm (} 6.429 \pm 0.138 \text{ in)}$ |