

## 32.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(H4DO(HEV))-98, RELEASING OF FUEL PRESSURE, PROCEDURE, Fuel.>

2) Drain fuel. <Ref. to FU(H4DO(HEV))-99, DRAINING FUEL (WITH SUBARU SELECT MONITOR), PROCEDURE, Fuel.>

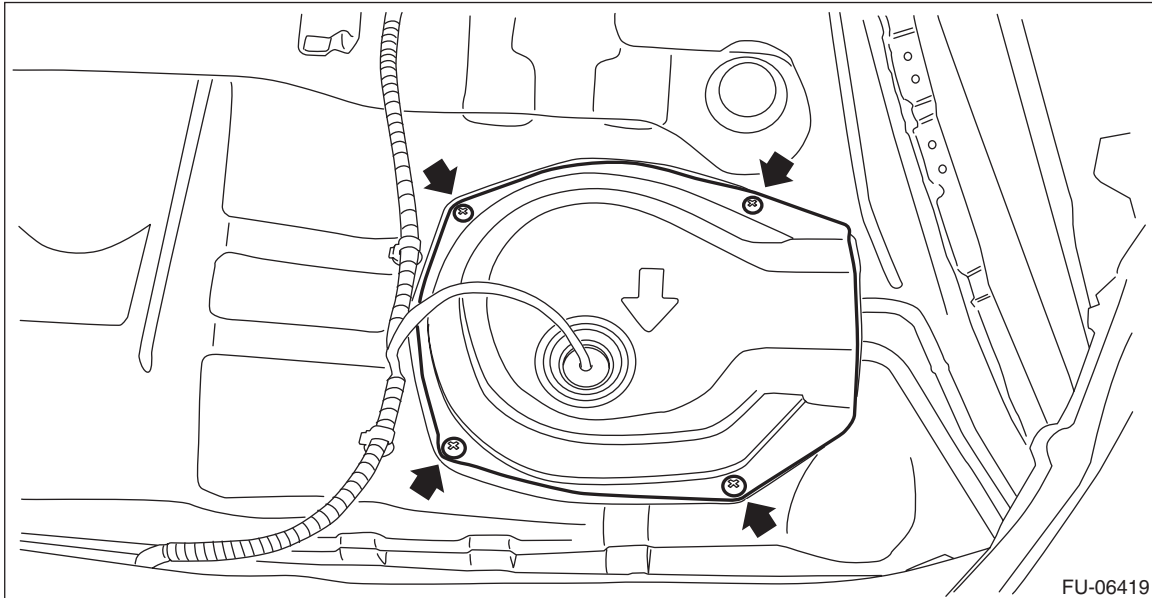
3) Disconnect the ground cable from battery. <Ref. to NT-5, BATTERY, NOTE, Note.>

#### NOTE:

For the 12 volt engine restart battery, disconnect the ground terminal from 12V engine restart battery sensor.

4) Remove the rear seat cushion. <Ref. to SE-23, REMOVAL, Rear Seat.>

5) Remove the service hole cover of fuel sub level sensor.

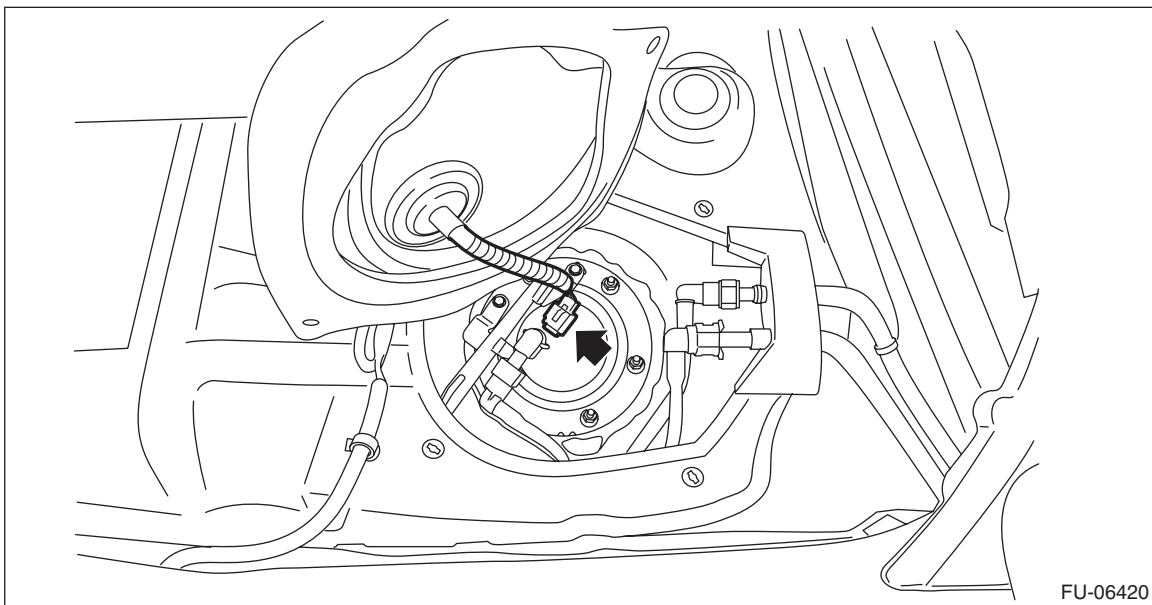


## Fuel Sub Level Sensor

### FUEL INJECTION (FUEL SYSTEMS)

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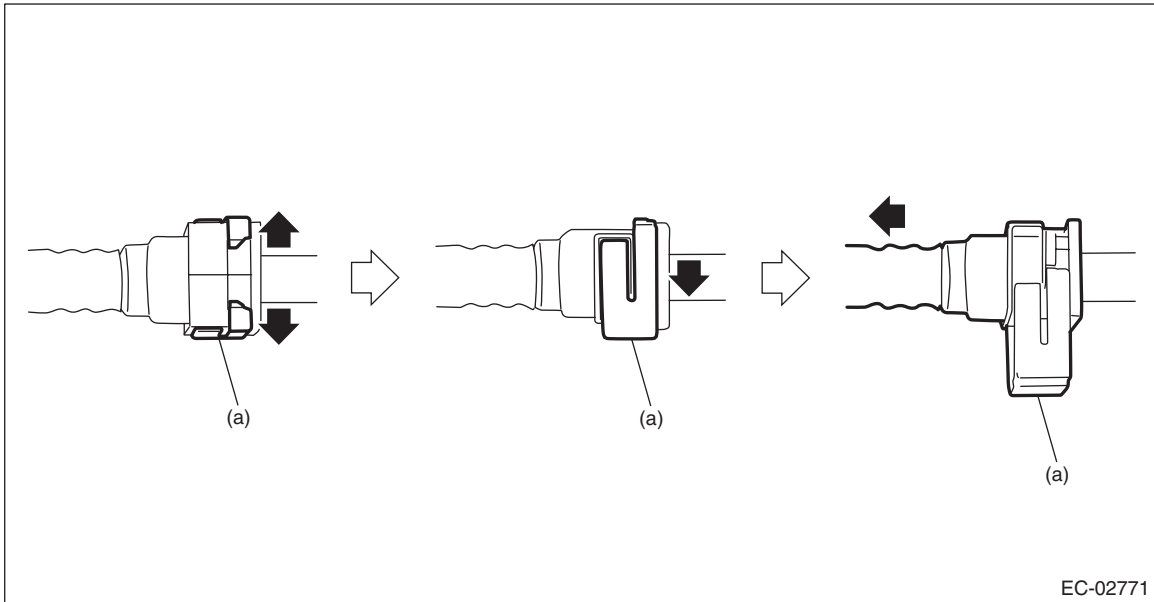
- 6) Disconnect the connector from the fuel sub level sensor, and move aside the service hole cover.



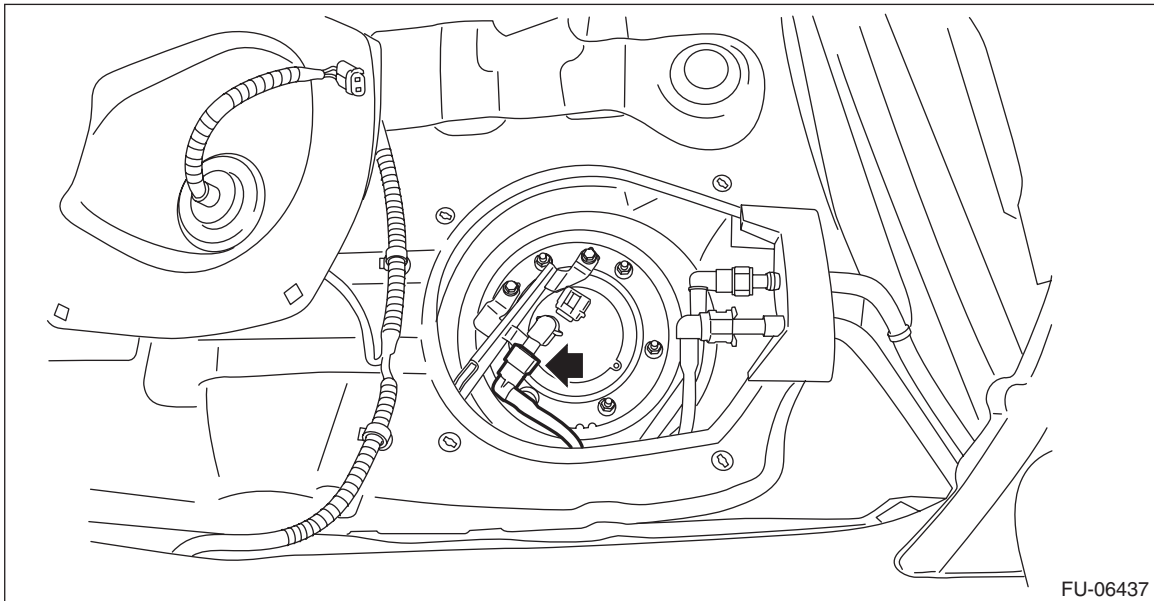
7) Disconnect the quick connector of the jet pump tube.

**NOTE:**

Disconnect the quick connector as shown in the figure.



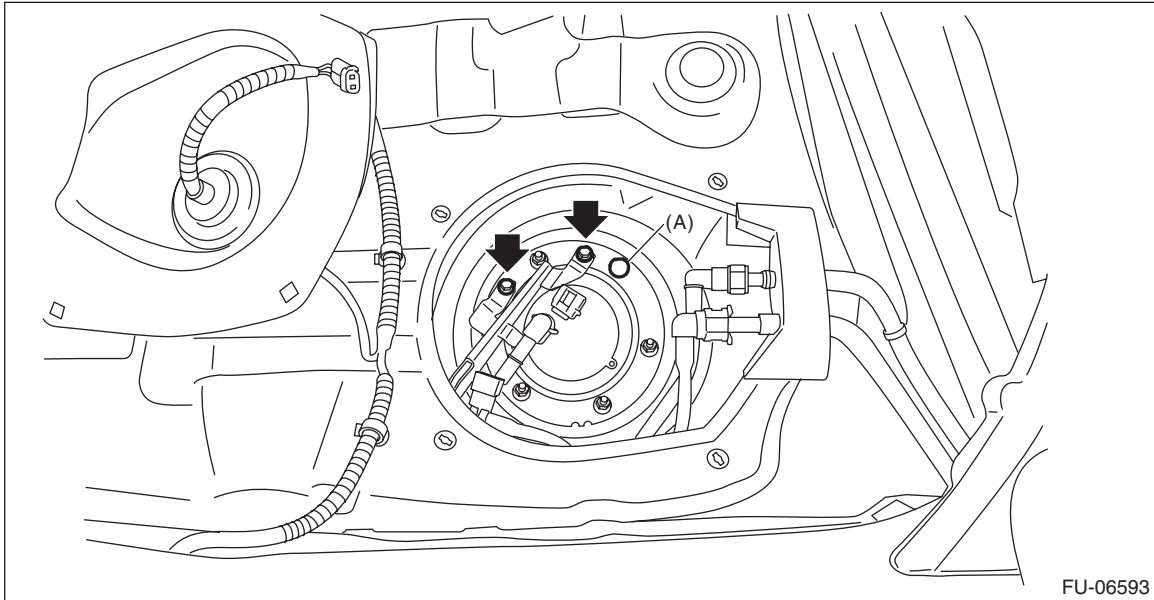
(a) Slider



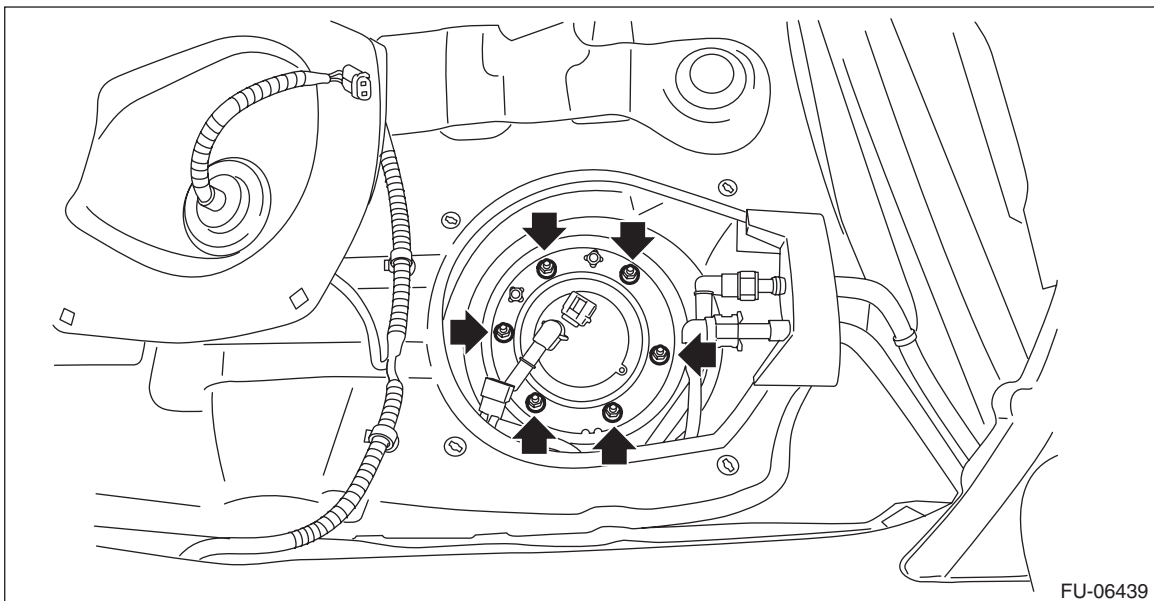
## Fuel Sub Level Sensor

### FUEL INJECTION (FUEL SYSTEMS)

8) Remove the fuel sub level sensor protector, and remove the rubber cap (A) from nut.



9) Remove the bolts and nuts which hold fuel sub level sensor protector and fuel sub level sensor upper plate to the fuel tank.



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

#### **CAUTION:**

**Be careful not to let the arm and float of the fuel sub level sensor contact the fuel tank.**

## B: INSTALLATION

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

### CAUTION:

**Set the arm and float of the fuel sub level sensor while paying attention to prevent them from contacting the fuel tank. If the arm of the fuel sub level sensor is bent, the fuel gauge may not read correctly.**

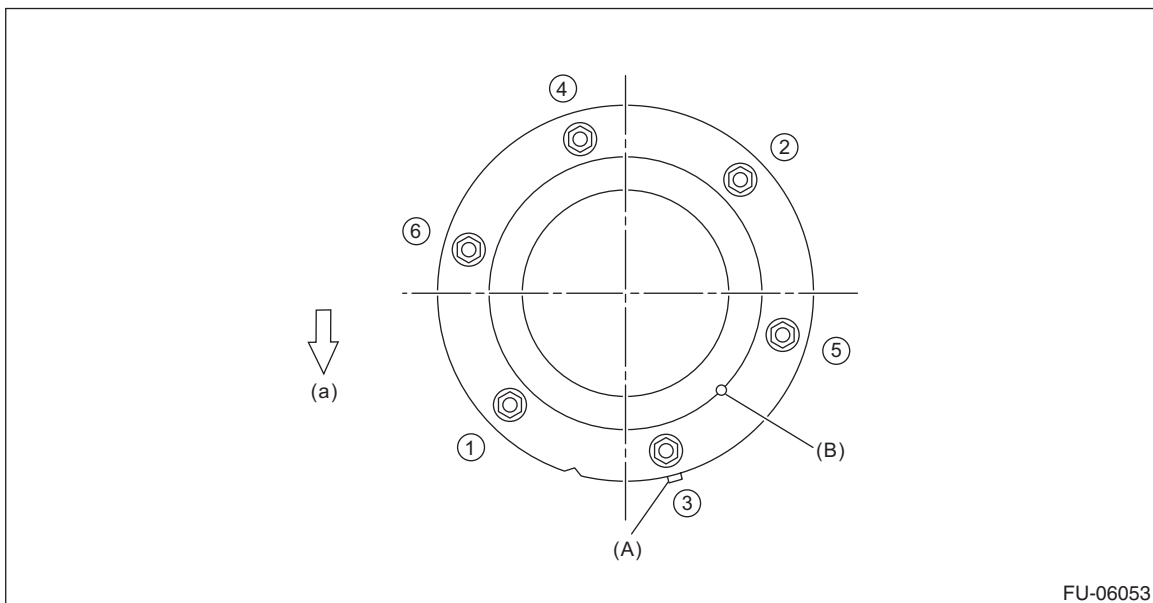
- Make sure the sealing portion is free from fuel or foreign matter before installation.
- Align protrusion (A) of the gasket to the position shown in the figure.
- Align the cutout in the fuel sub level sensor upper plate cushion with the protrusion (B) of the fuel sub level sensor.
- Align the protrusion (B) of the fuel sub level sensor upper plate cushion with the cutout in the fuel sub level sensor upper plate.
- Tighten the nuts and bolts to the specified torque in the order as shown in the figure.
- After tightening, install the rubber cap (C) at the position shown in the figure.

### NOTE:

- Use a new gasket.
- Do not forget to install rubber cap (C).

### Tightening torque:

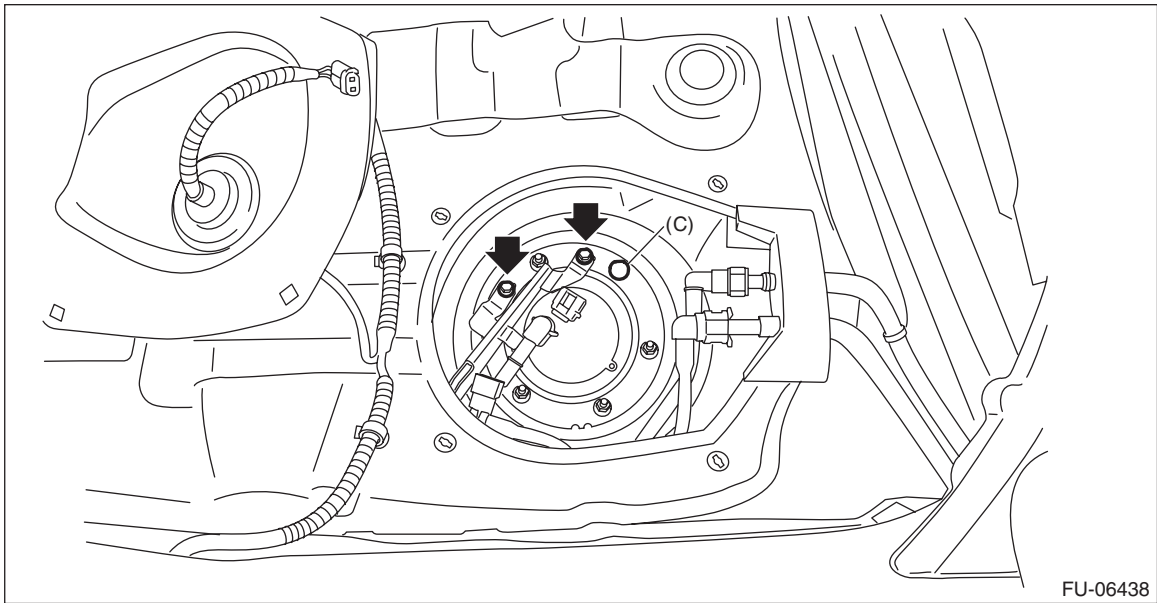
**4.4 N·m (0.4 kgf-m, 3.2 ft-lb)**



(a) Front side of vehicle

## Fuel Sub Level Sensor

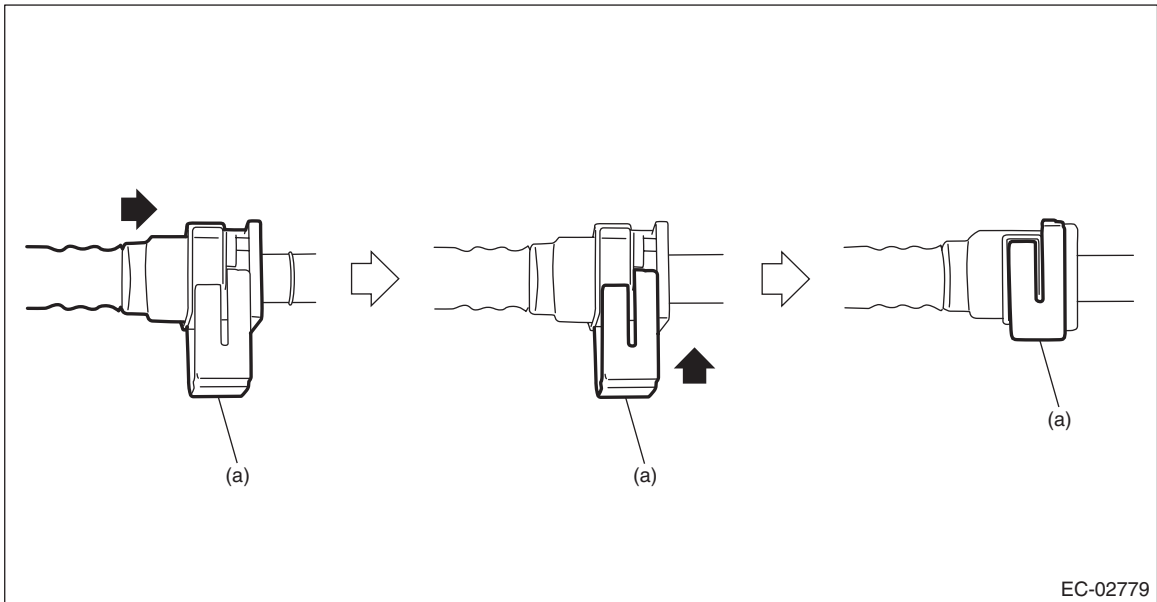
### FUEL INJECTION (FUEL SYSTEMS)



- Connect the quick connector as shown in the figure.

#### CAUTION:

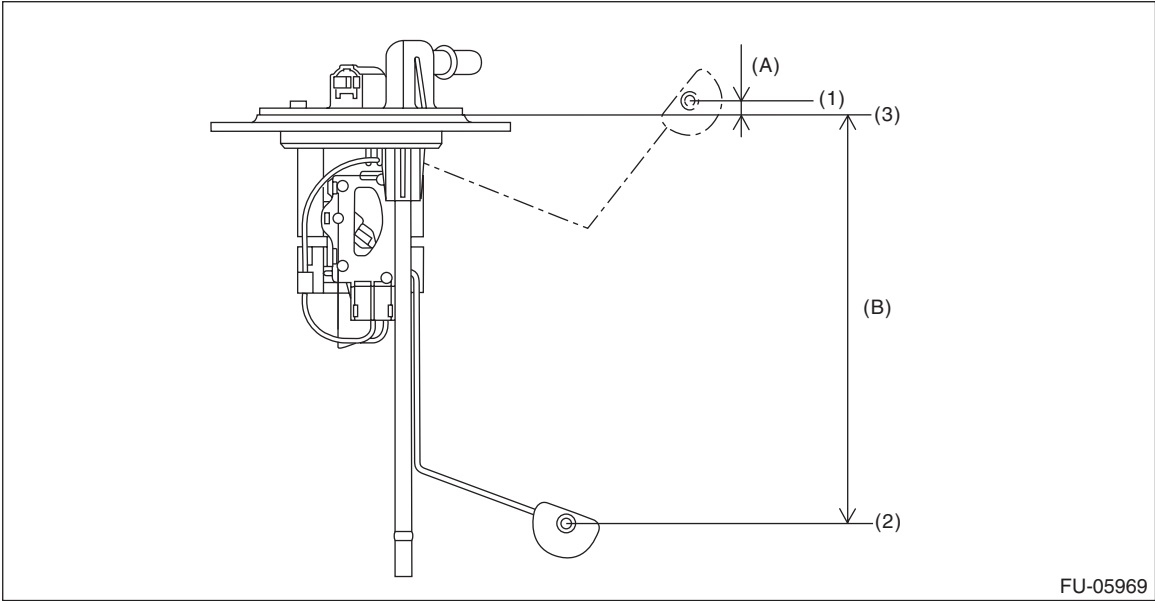
- Check that there is no damage or dust on the quick connector. If necessary, clean the seal surface of the pipe.
- When connecting the quick connector, make sure to insert it all the way in before locking the slider.
- When it is difficult to lock the slider, check that the connector is fully inserted.
- After locking the slider, check again that the quick connector is securely connected.



(a) Slider

C: INSPECTION

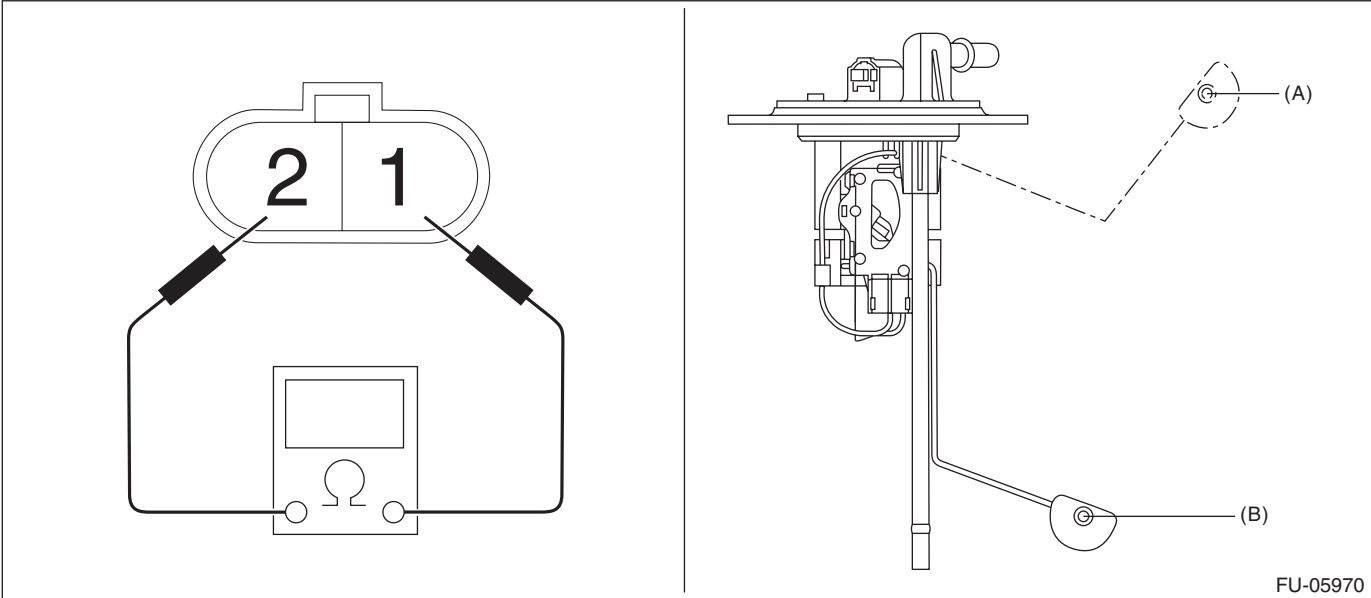
- 1) Check that the fuel sub level sensor has no damage.
- 2) Measure the fuel sub level sensor float position.



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

Float position	Standard
FULL to Datum point (A)	5.31±3.5 mm (0.209±0.138 in)
EMPTY to Datum point (B)	160.6±3.5 mm (6.32±0.138 in)

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



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