

### 33.Fuel Filter

#### A: REMOVAL

##### WARNING:

Place “NO OPEN FLAMES” signs near the working area.

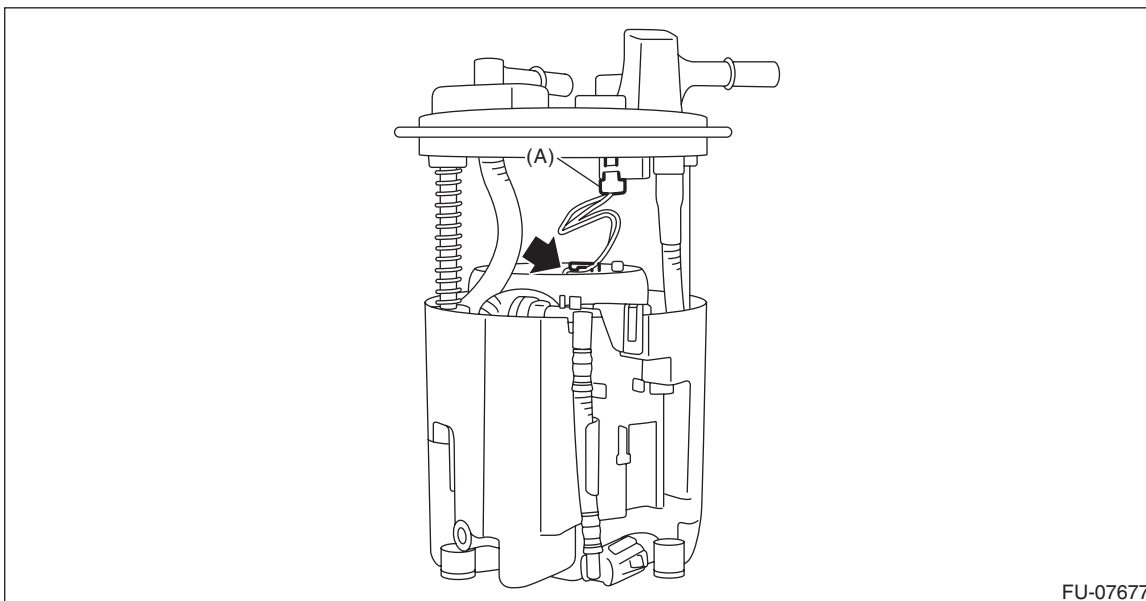
##### CAUTION:

- 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.
- Be careful not to drop or apply any impact to the fuel pump during work. This may deteriorate its performance.

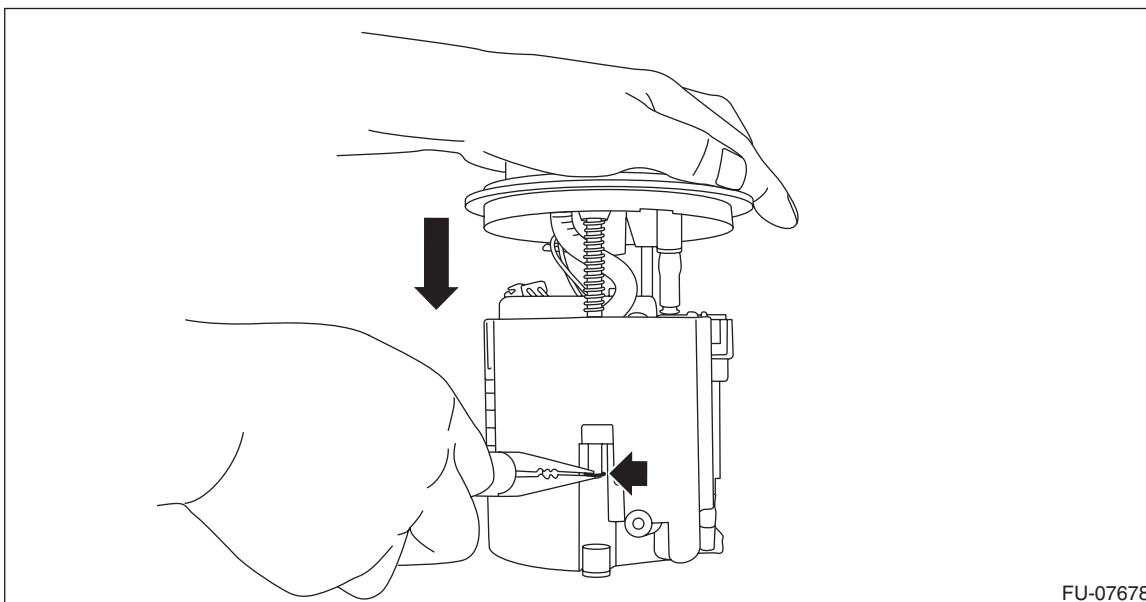
##### NOTE:

The fuel filter is built in fuel pump assembly.

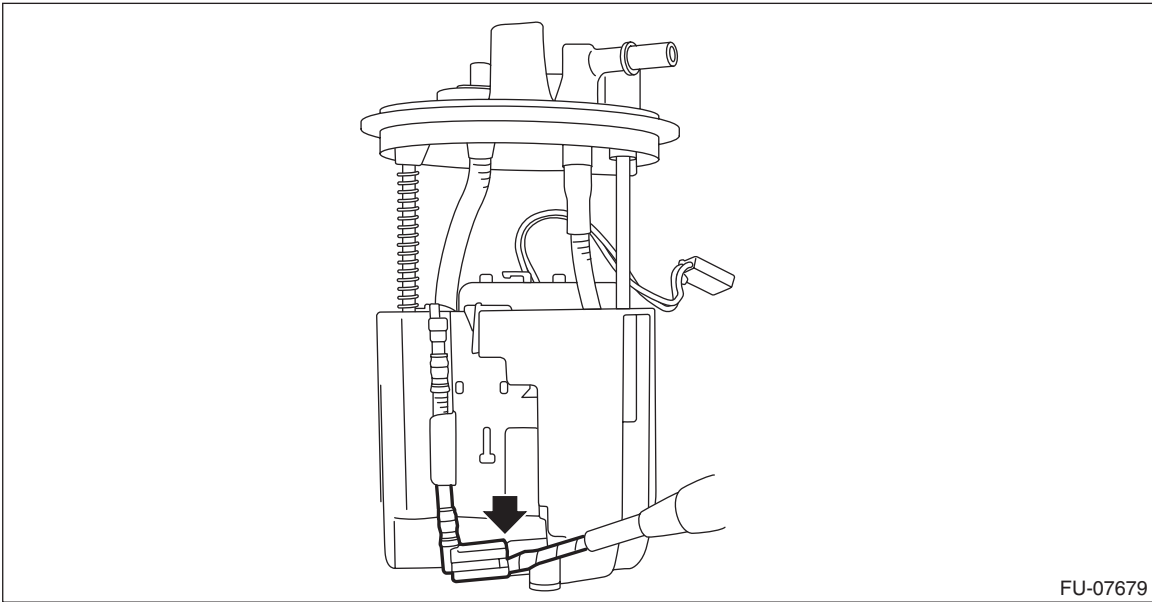
- 1) Remove the fuel pump assembly. <Ref. to FU(H4DO(HEV))-122, REMOVAL, Fuel Pump.>
- 2) Remove the fuel level sensor. <Ref. to FU(H4DO(HEV))-128, REMOVAL, Fuel Level Sensor.>
- 3) Remove the connector cable from the clip, and disconnect the connector (A) of the connector cable.



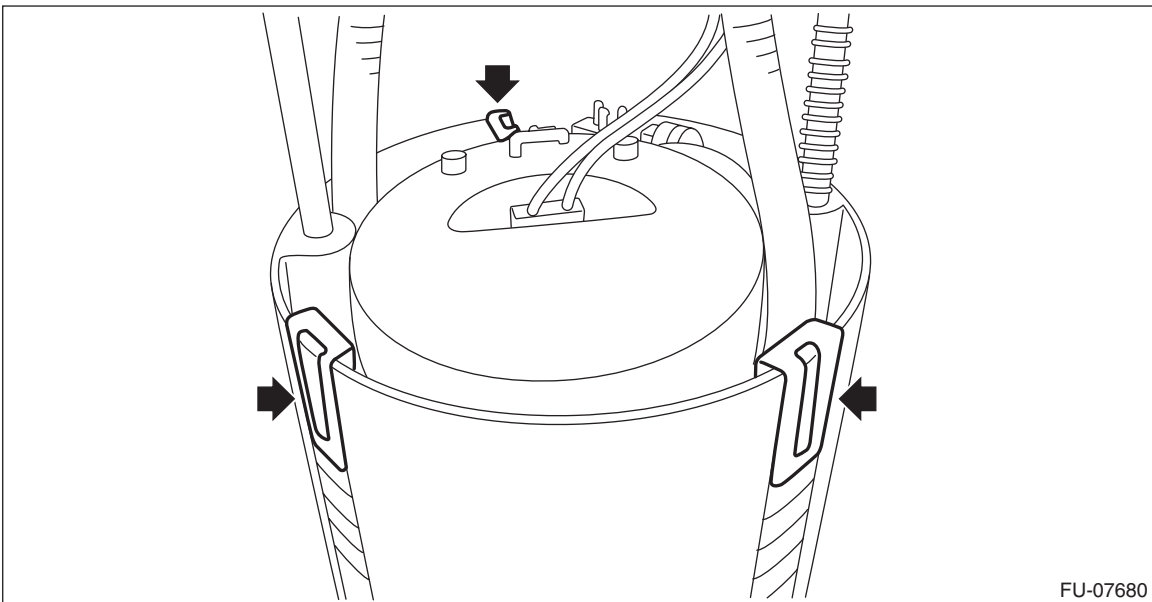
- 4) Push the fuel filter assembly in the direction of the arrow to compress, and detach the connecting clip.



5) Release the claw using a flat tip screwdriver or similar tool wrapped with a protection tape, and remove the tube assembly from the fuel chamber assembly.



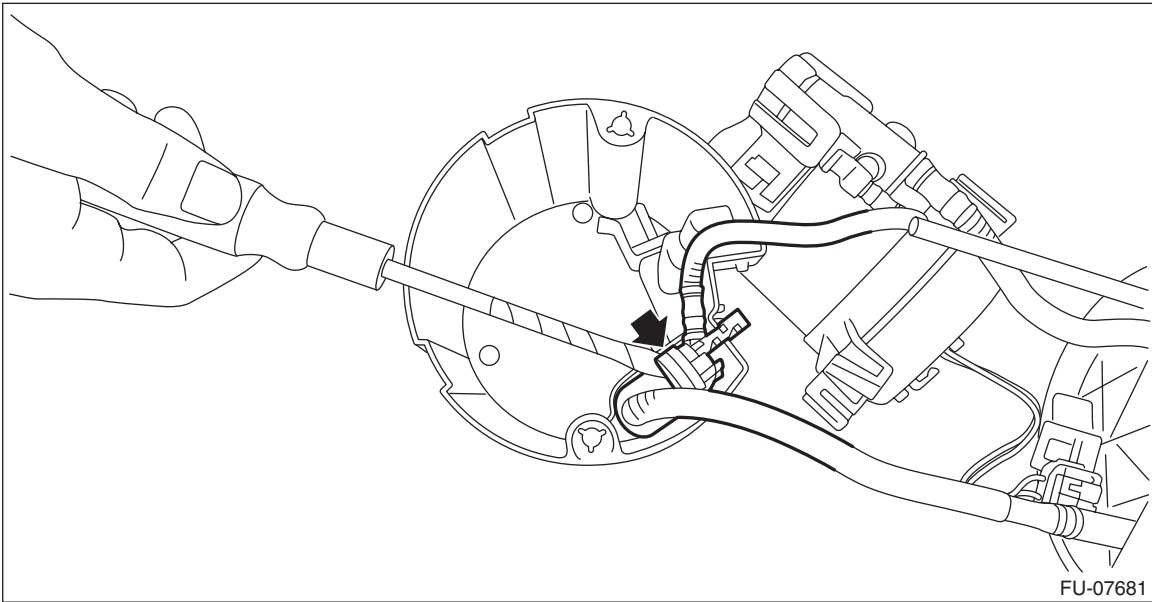
6) Release three claws on the fuel pump holder from the fuel chamber assembly, and raise the fuel filter assembly.



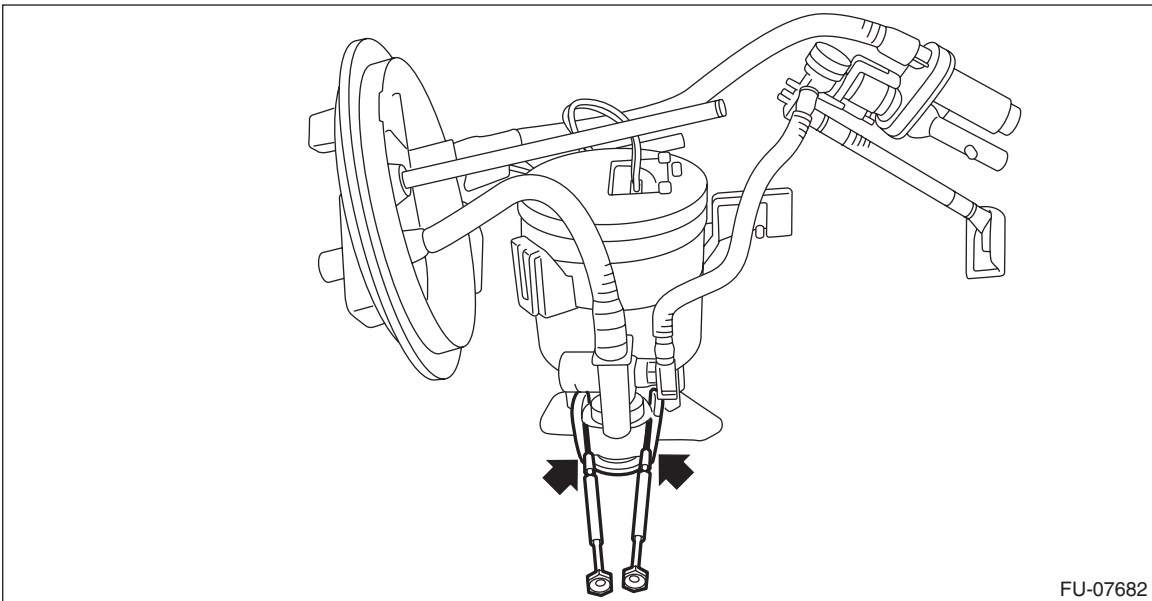
## Fuel Filter

### FUEL INJECTION (FUEL SYSTEMS)

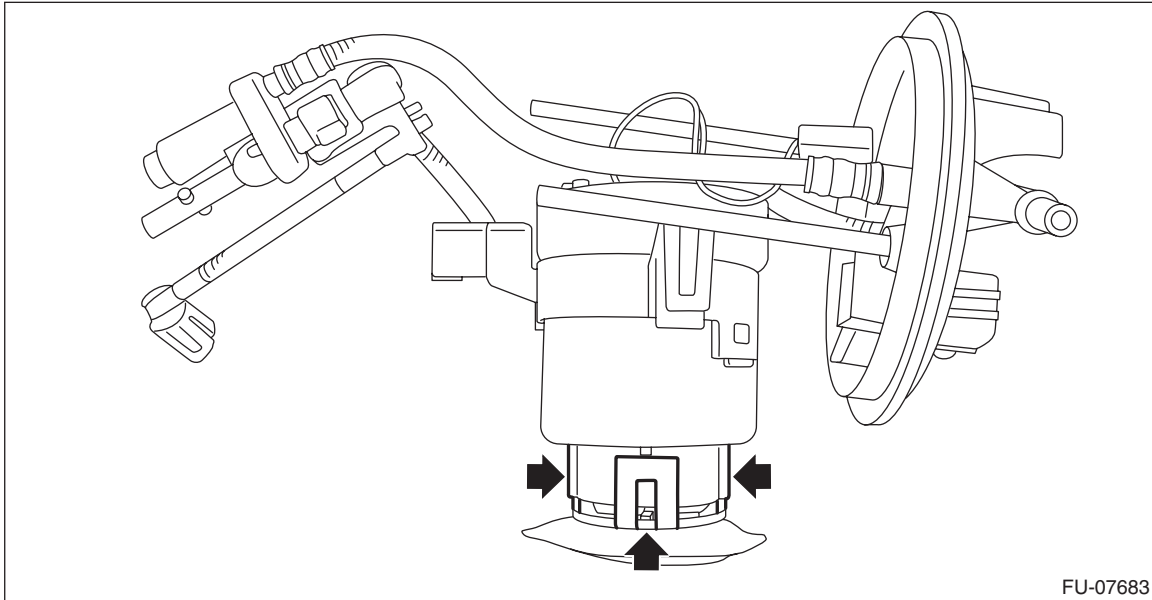
7) Using a flat tip screwdriver or similar tool wrapped with a protection tape, remove the tube assembly from the fuel chamber assembly, and separate the fuel filter assembly and fuel chamber assembly.



8) Using a precision driver or similar tool wrapped with a protection tape, expand the claws on the fuel pump.



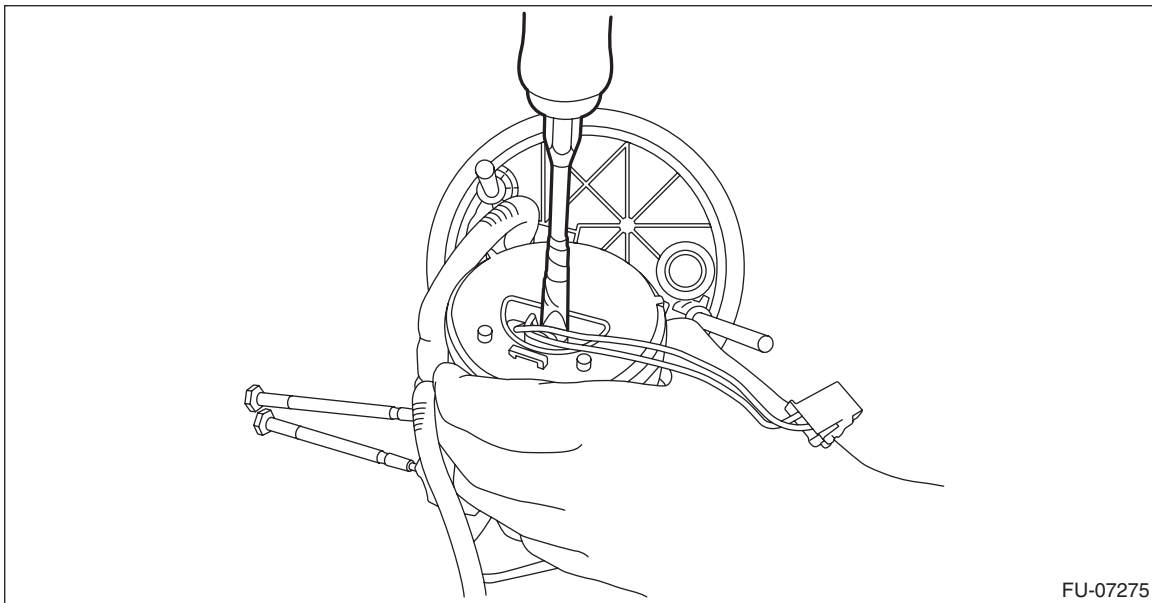
9) Release the claws on the fuel pump.



10) Using a flat tip screwdriver or similar tool wrapped with a protection tape, press on the fuel pump and remove the fuel pump together with the fuel pump holder from the fuel filter assembly.

**CAUTION:**

If O-rings remain on the fuel filter assembly side, carefully remove them with a precision screwdriver or similar tool wrapped with a protection tape.

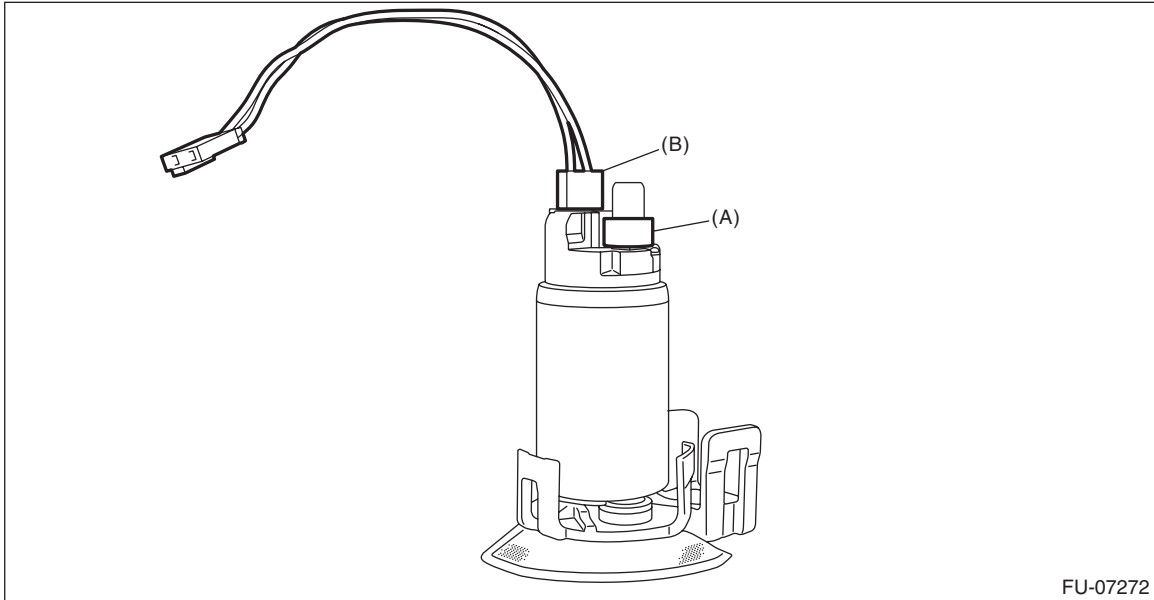


## Fuel Filter

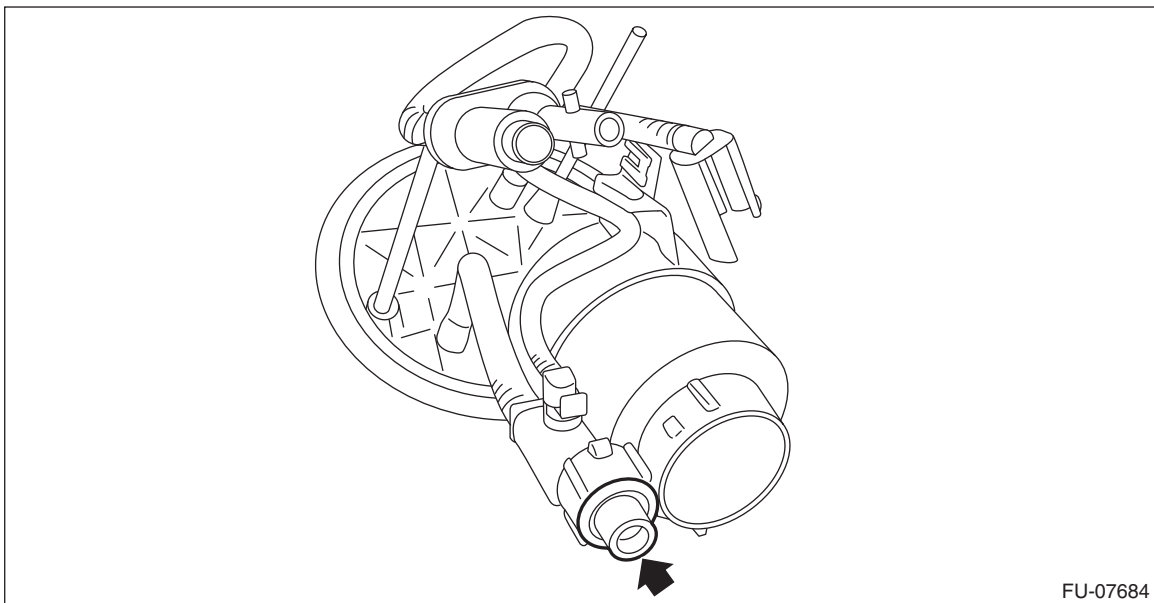
### FUEL INJECTION (FUEL SYSTEMS)

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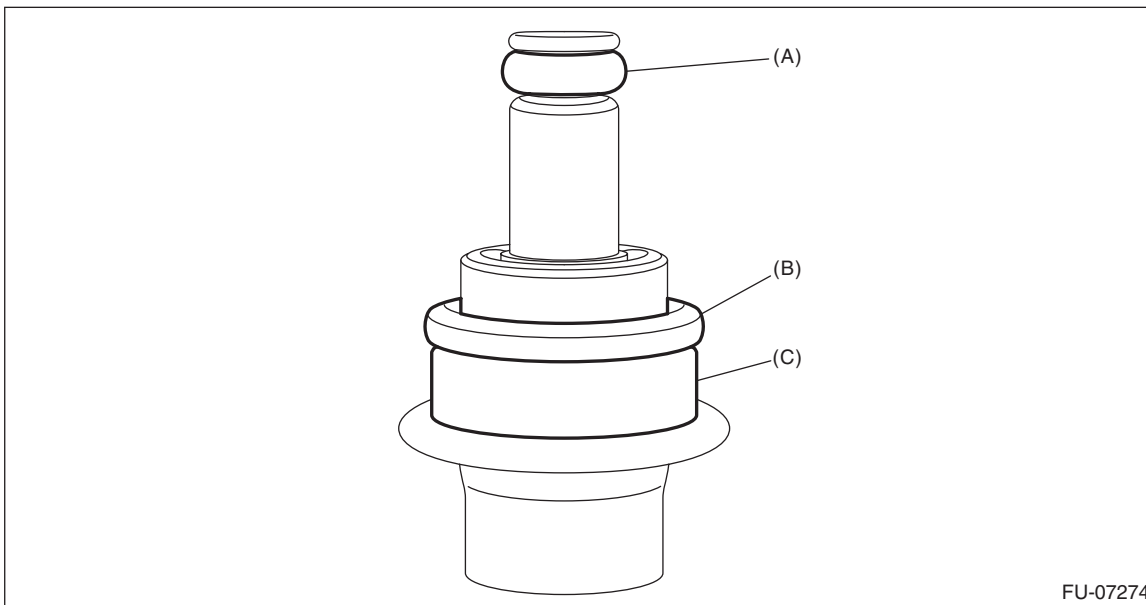
- 11) Remove the spacer (A) and connector cable (B) from the fuel pump.



- 12) Remove the pressure regulator from the fuel filter assembly.



13) Remove O-ring (A), O-ring (B), and backup ring (C) from the pressure regulator.

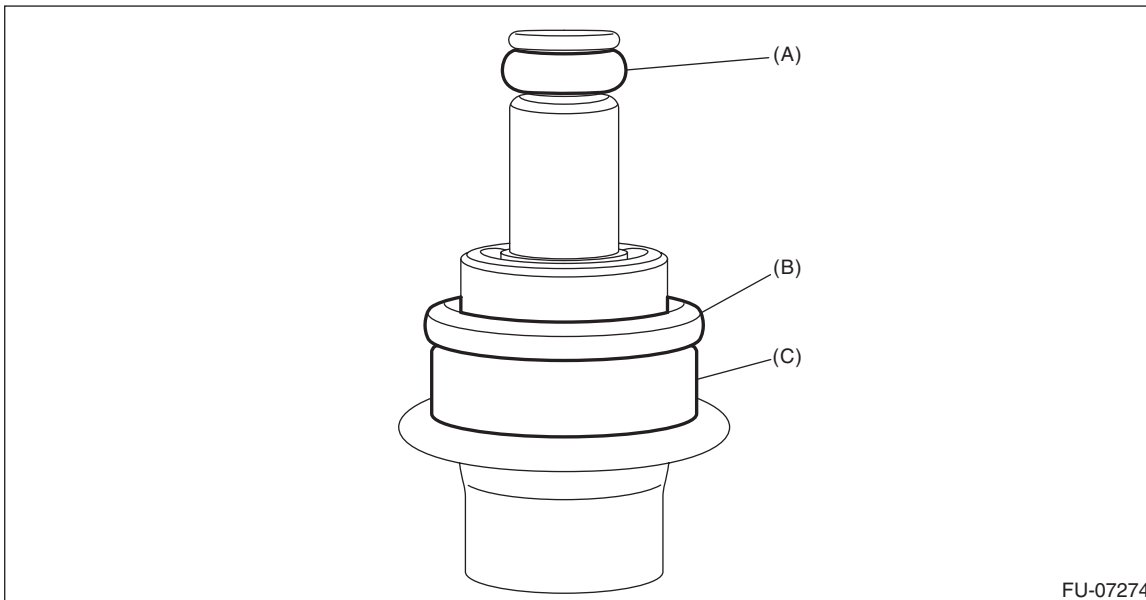


### B: INSTALLATION

1) Install O-ring (A), O-ring (B), and backup ring (C) to the pressure regulator.

#### NOTE:

- Use new O-rings.
- Apply gasoline to the O-ring and backup ring.

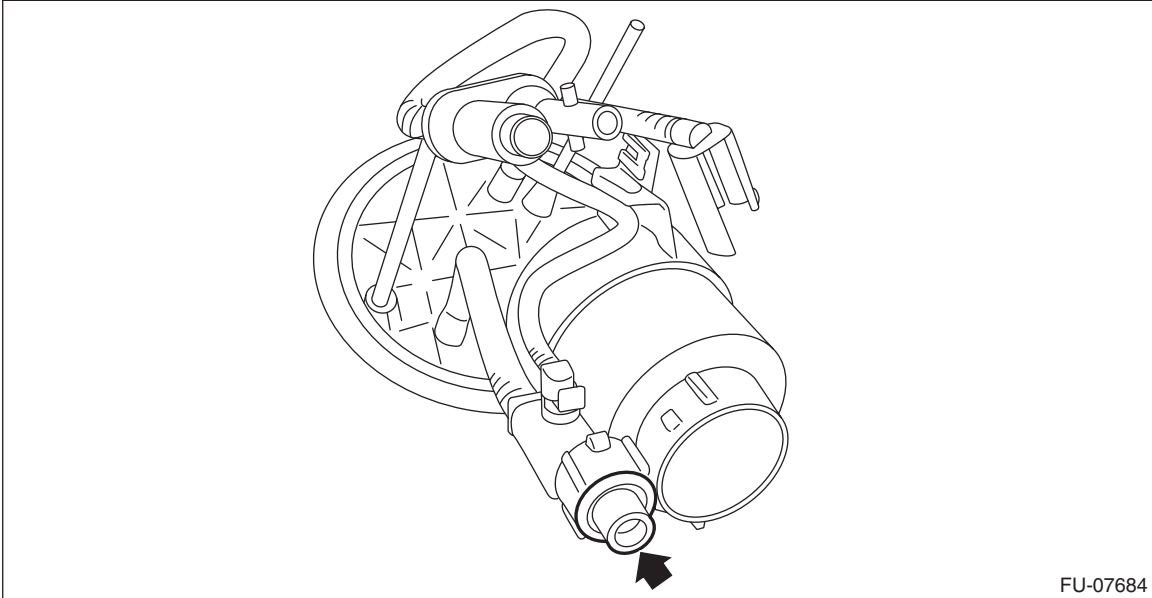


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### FUEL INJECTION (FUEL SYSTEMS)

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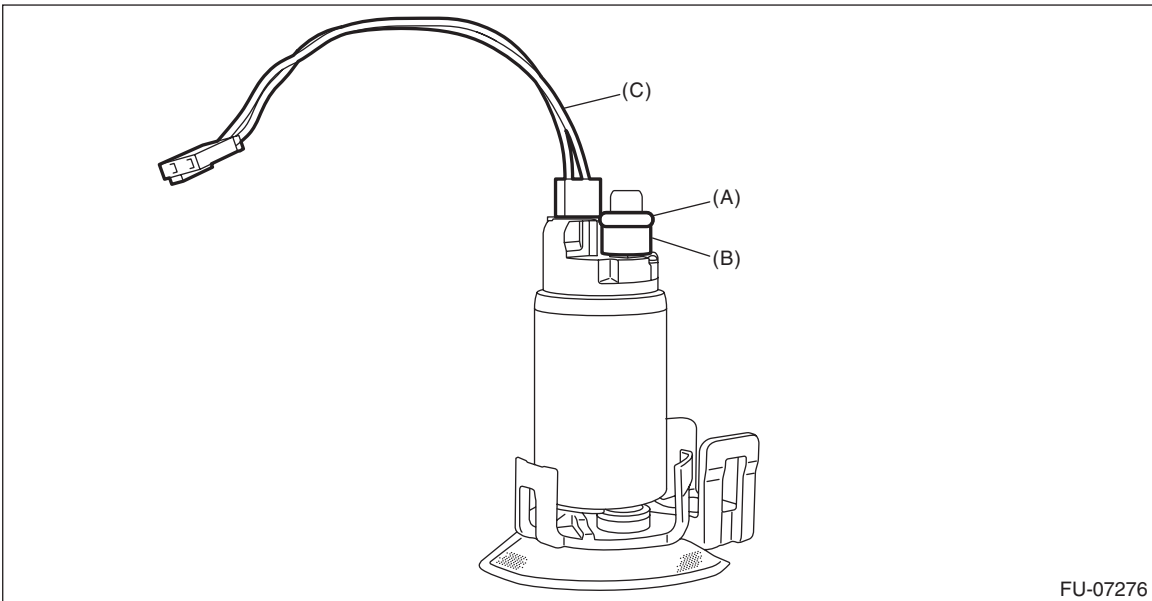
2) Install the pressure regulator to the fuel filter assembly.



3) Install O-ring (A), spacer (B), and connector cable (C) to the fuel pump.

**NOTE:**

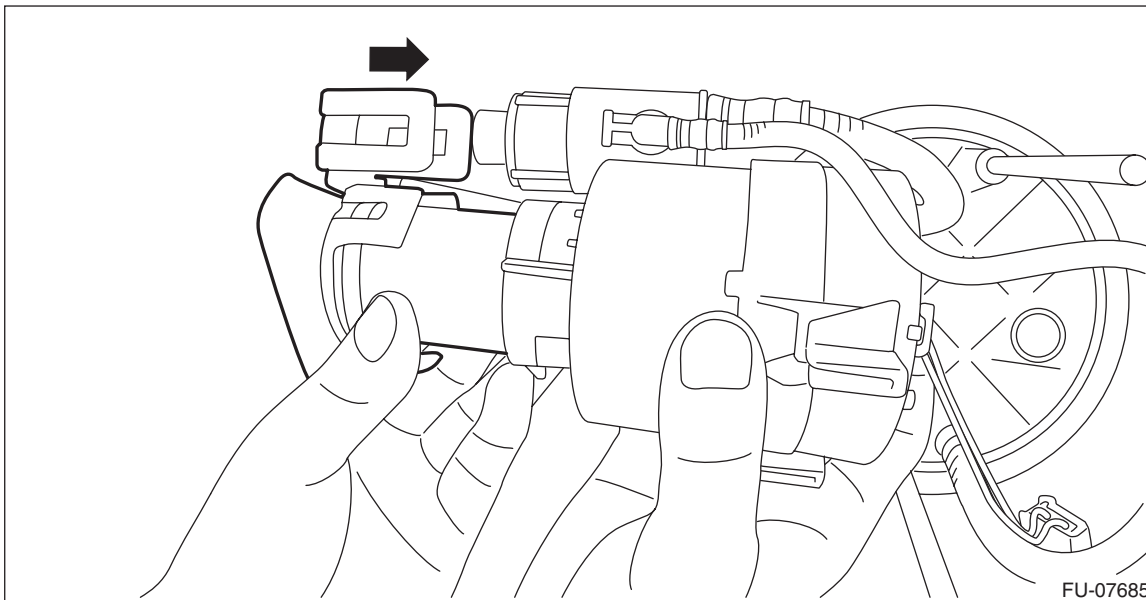
- Use new O-rings and the connector cable.
- Apply gasoline to the O-rings and the spacer.



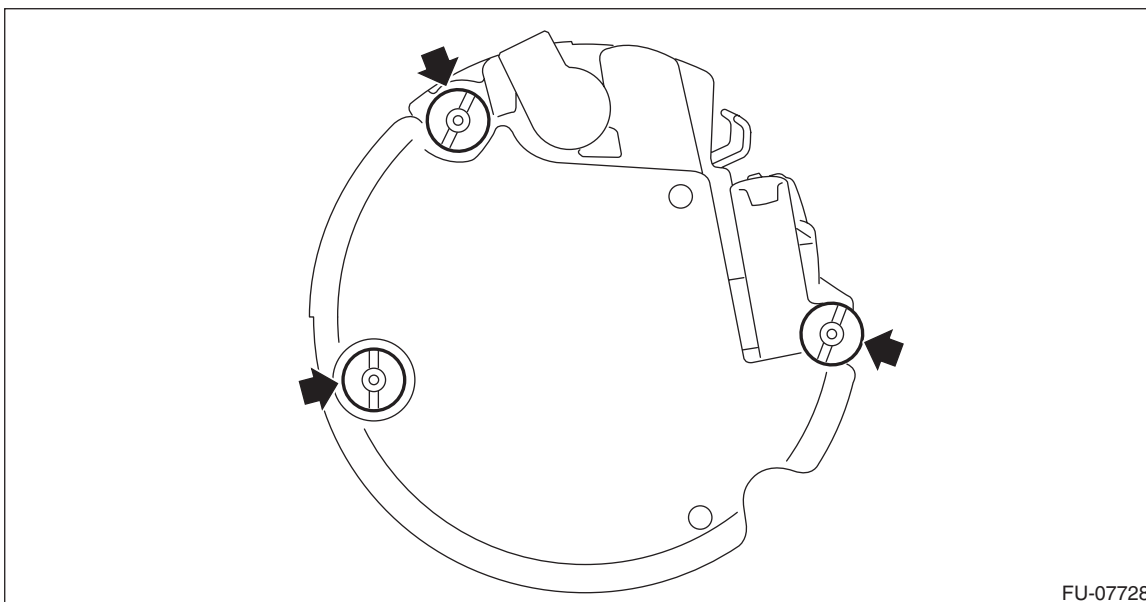
4) Install the fuel pump to the fuel filter assembly.

**NOTE:**

After installation, make sure five claws are correctly engaged in each position.



5) Check that the cushions of the fuel chamber assembly for dislocation. If any of them is dislocated, install a new cushion.



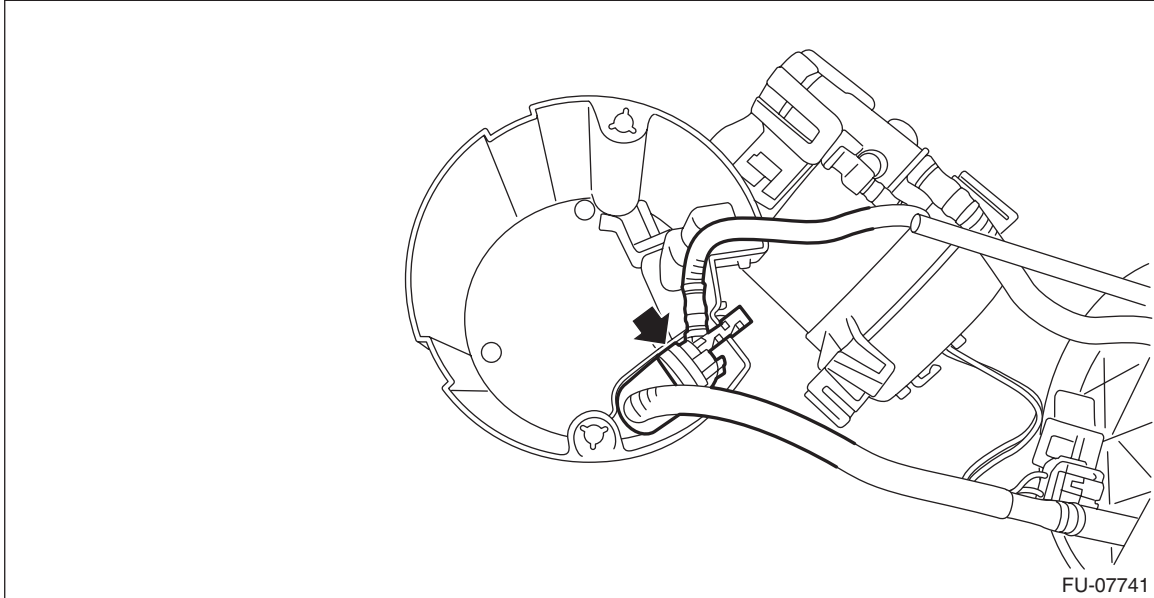


## Fuel Filter

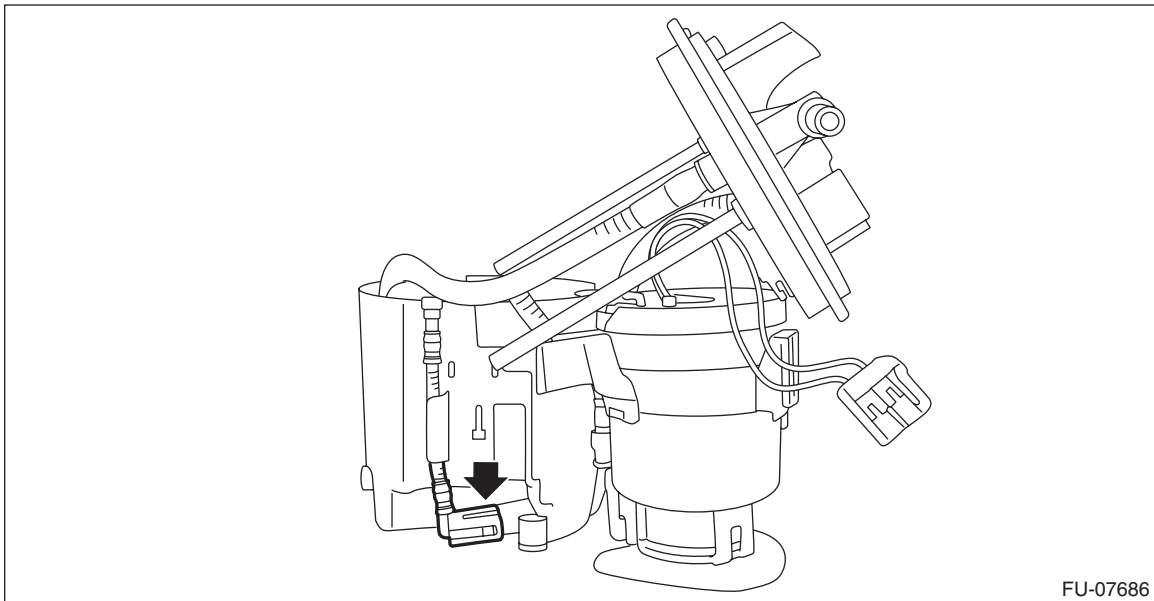
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- 6) Slowly press in and install the tube assembly to the fuel chamber assembly until a clicking sound is heard.



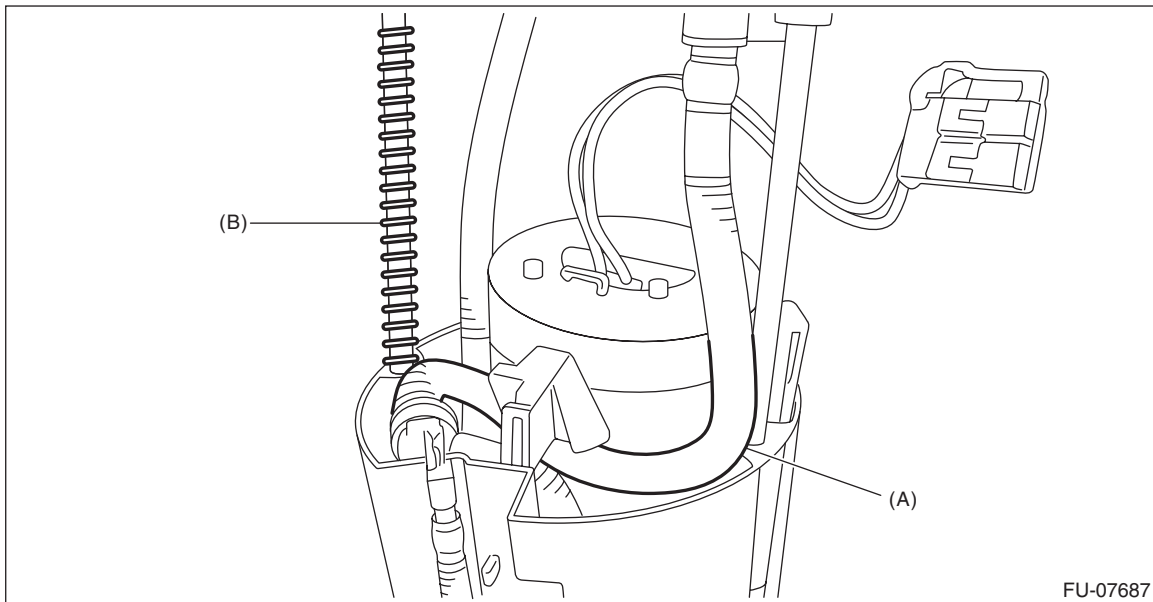
- 7) Connect the tube assembly to the fuel chamber assembly.



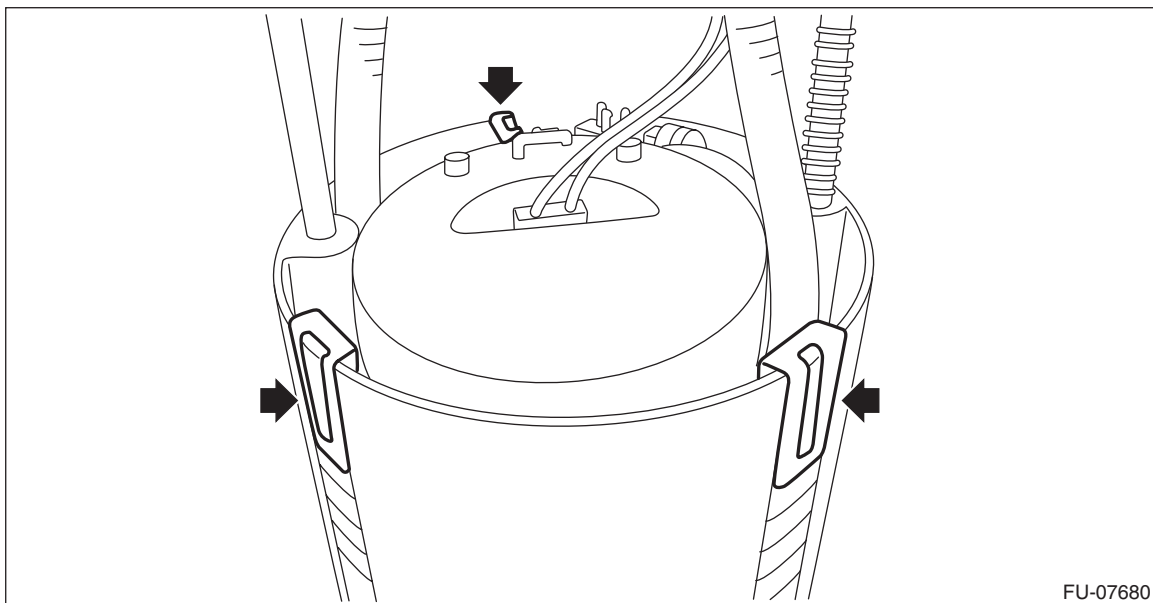
8) Install the fuel filter assembly to the fuel chamber assembly.

**NOTE:**

- Set the tube (A) and spring (B) for the fuel filter assembly as shown in the figure.



- Check that the claw connecting the fuel camber assembly and the fuel filter assembly is securely fastened.



## Fuel Filter

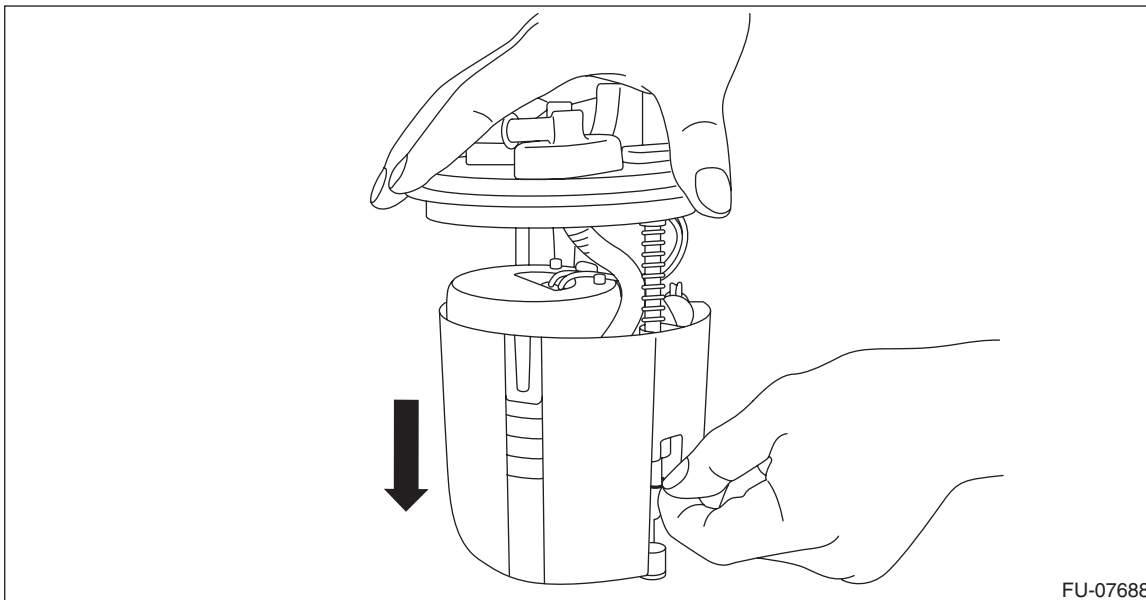
### FUEL INJECTION (FUEL SYSTEMS)

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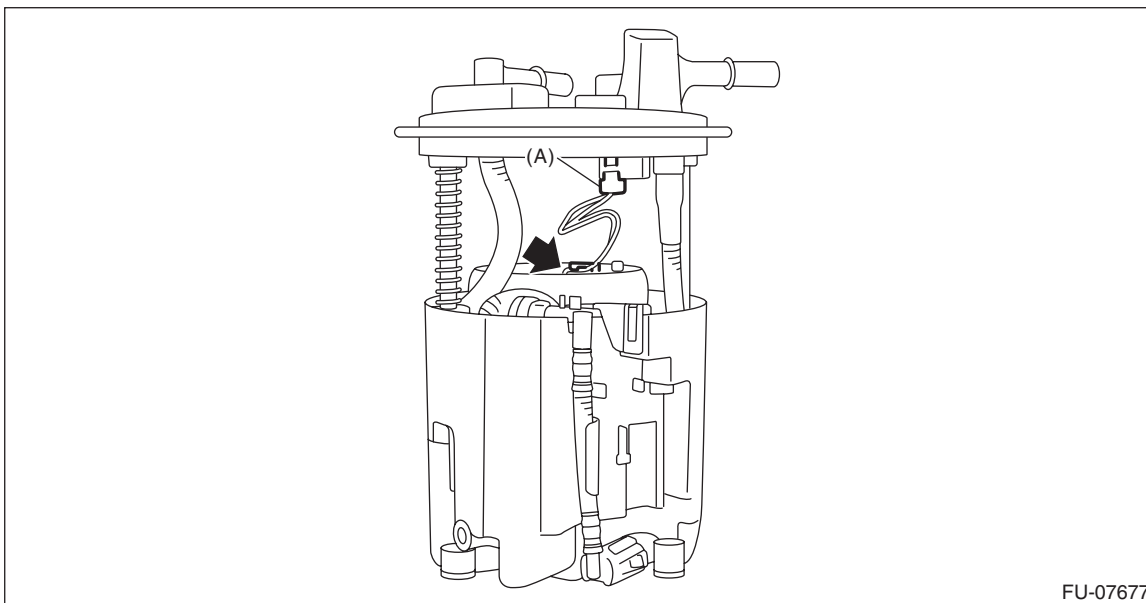
9) Push the fuel filter assembly in the direction of the arrow to compress, and attach the clip.

**NOTE:**

Use a new clip.



10) Secure the connector cable with the clip, and connect the connector (A) of the connector cable.



11) Install the fuel level sensor. <Ref. to FU(H4DO(HEV))-129, INSTALLATION, Fuel Level Sensor.>

12) Inspect the fuel level sensor. <Ref. to FU(H4DO(HEV))-130, INSPECTION, Fuel Level Sensor.>

13) Install the fuel pump assembly. <Ref. to FU(H4DO(HEV))-126, INSTALLATION, Fuel Pump.>