

## 16. Tumble Generator Valve Assembly

### A: REMOVAL

1) Release the fuel pressure. <Ref. to FU(H4DO(HEV))-98, RELEASING OF FUEL PRESSURE, PROCEDURE, Fuel.>

2) 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.

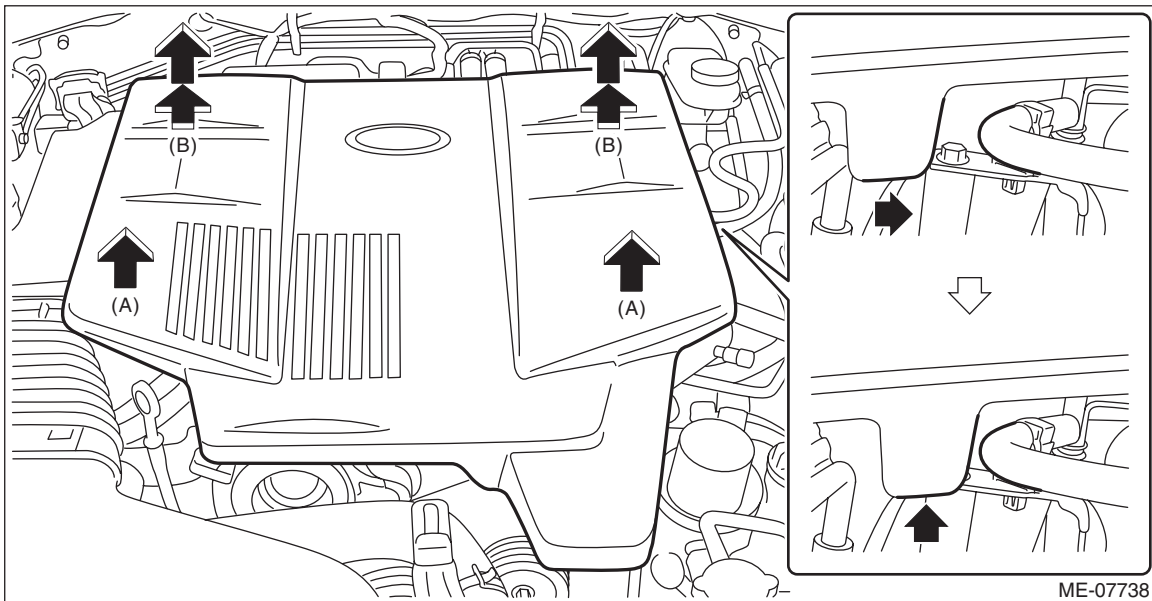
3) Remove the collector cover.

(1) Carefully pull up the front of collector cover at two positions (A).

(2) Carefully pull up the rear of collector cover at two positions (B) while moving it backward.

#### NOTE:

Be careful not to contact the fuel delivery tube when moving the collector cover rearward.

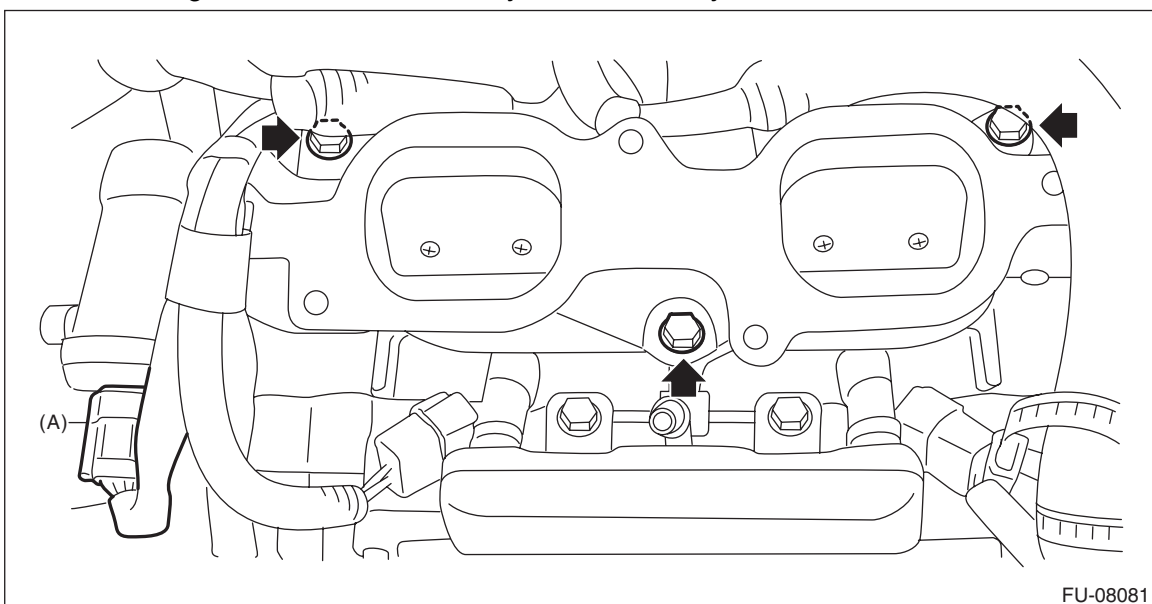


4) Open the fuel filler lid and remove the fuel filler cap.

5) Remove the intake manifold. <Ref. to FU(H4DO(HEV))-19, REMOVAL, Intake Manifold.>

6) Disconnect the connector (A) from the tumble generator valve assembly RH.

7) Remove the tumble generator valve assembly RH from the cylinder head.

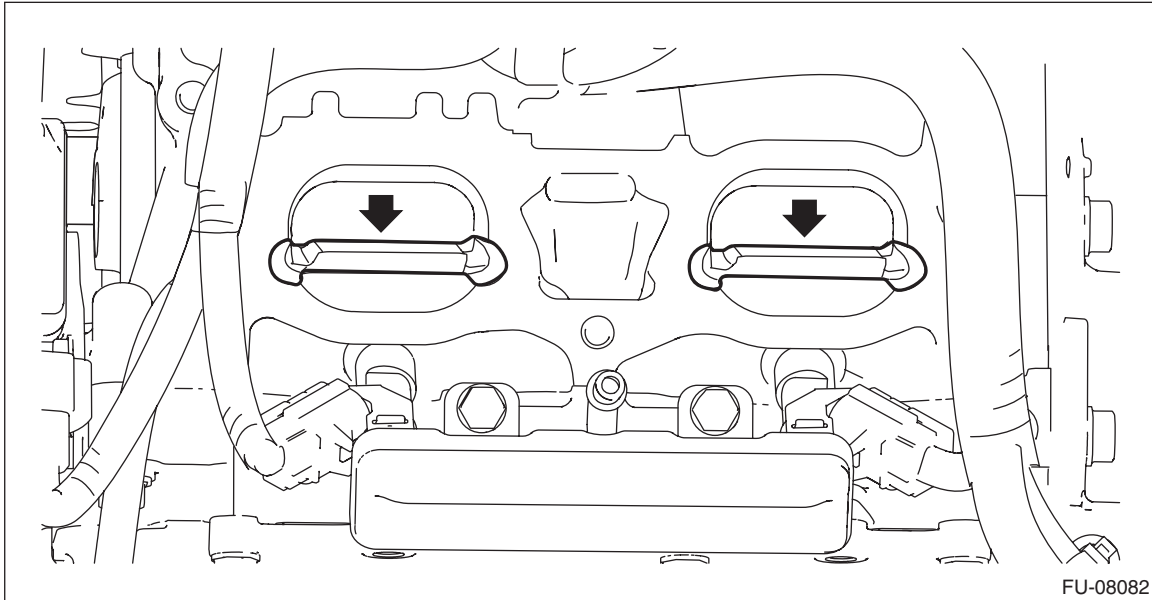


# Tumble Generator Valve Assembly

## FUEL INJECTION (FUEL SYSTEMS)

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8) Remove the cylinder head plate from cylinder head RH.



9) Remove the tumble generator valve assembly LH and cylinder head plate in the same manner.

### **B: INSTALLATION**

Install in the reverse order of removal.

NOTE:

Use a new gasket.

**Tightening torque:**

**25 N·m (2.5 kgf-m, 18.4 ft-lb)**

### **C: INSPECTION**

#### **1. CHECK MOTOR**

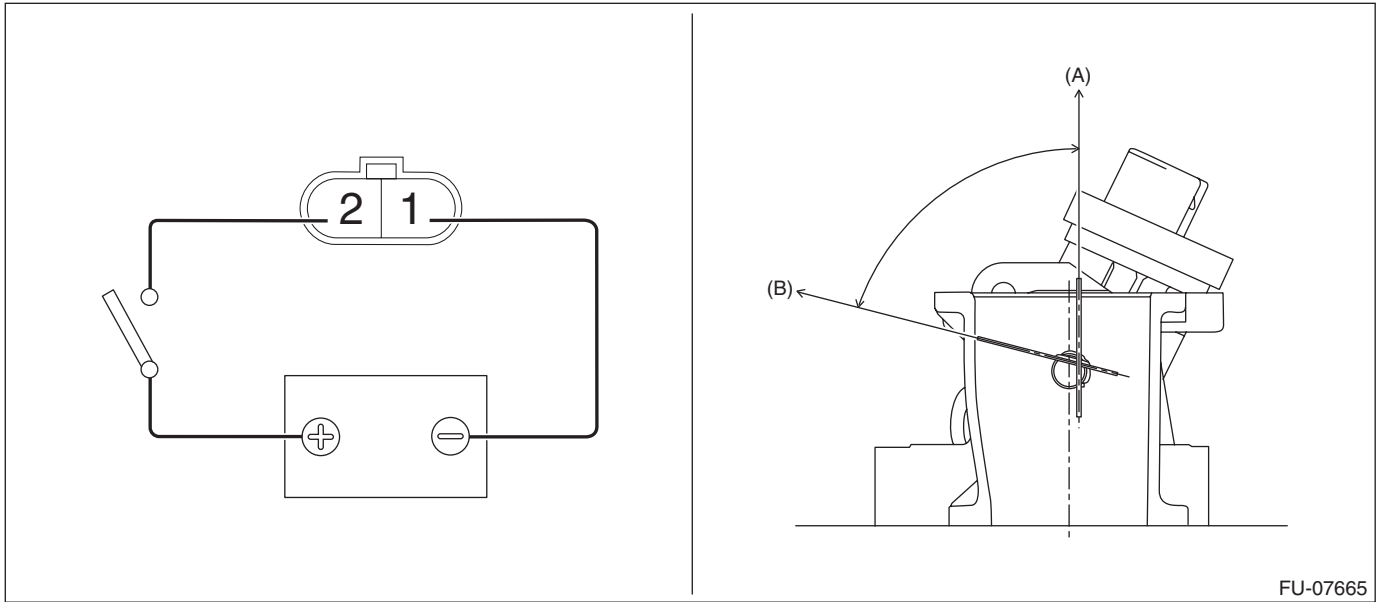
1) Connect the battery positive terminal to terminal No. 2 and the battery ground terminal to terminal No. 1, and check that the valve is fully opened on LH side and the valve is fully closed on RH side.

# Tumble Generator Valve Assembly

FUEL INJECTION (FUEL SYSTEMS)

## CAUTION:

Do not power the motor for more than 10 seconds.



FU-07665

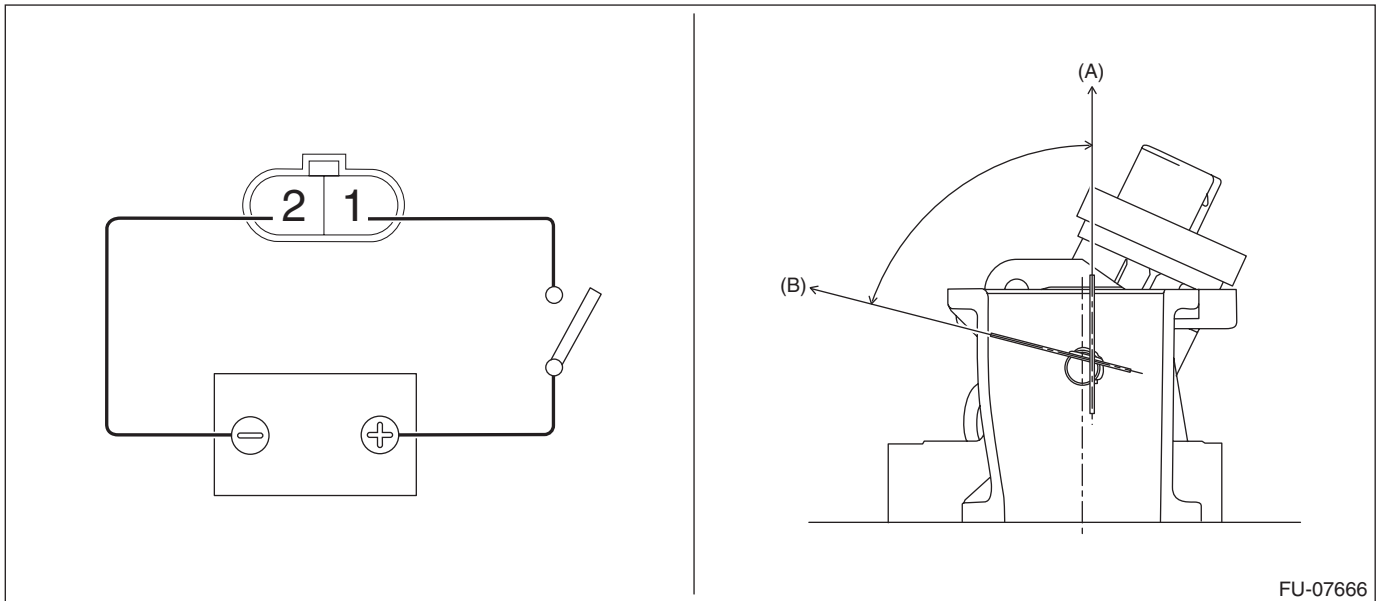
(A) Full open

(B) Full closed

2) Connect the battery positive terminal to terminal No. 1 and the battery ground terminal to terminal No. 2, and check that the valve is fully closed on LH side and the valve is fully opened on RH side.

## CAUTION:

Do not power the motor for more than 10 seconds.



FU-07666

(A) Full open

(B) Full closed

## 2. OTHER INSPECTIONS

- 1) Check that the tumble generator valve assembly has no deformation, cracks or other damages.
- 2) Check tumble generator valve assembly for contamination or clogging.