

Manifold Absolute Pressure Sensor

FUEL INJECTION (FUEL SYSTEMS)

9. Manifold Absolute Pressure Sensor

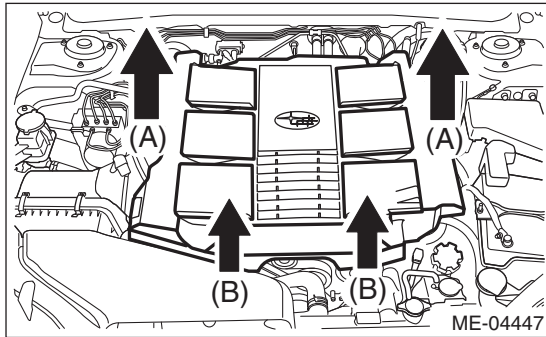
A: REMOVAL

1) Remove the collector cover.

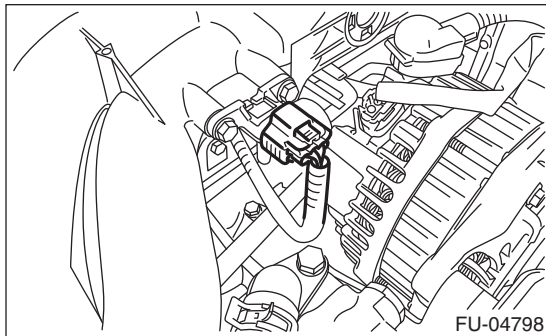
NOTE:

Follow these procedures for removal of the collector cover.

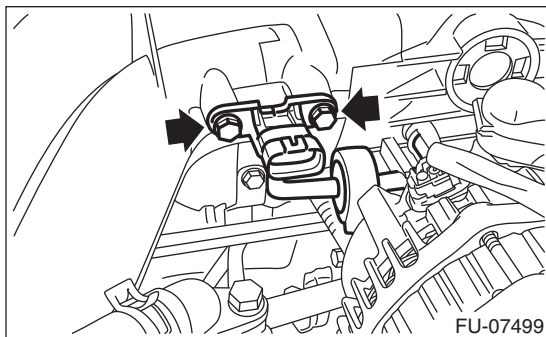
- (1) Lift up the rear side holding two positions (A).
- (2) Lift up the front side holding two positions (B) while moving it in the forward direction of the vehicle.



- 2) Disconnect the ground cable from battery.
- 3) Disconnect the manifold pressure sensor connector.



- 4) Remove the manifold pressure sensor and the filter and hose from intake manifold.



B: INSTALLATION

Install in the reverse order of removal.

Tightening torque:

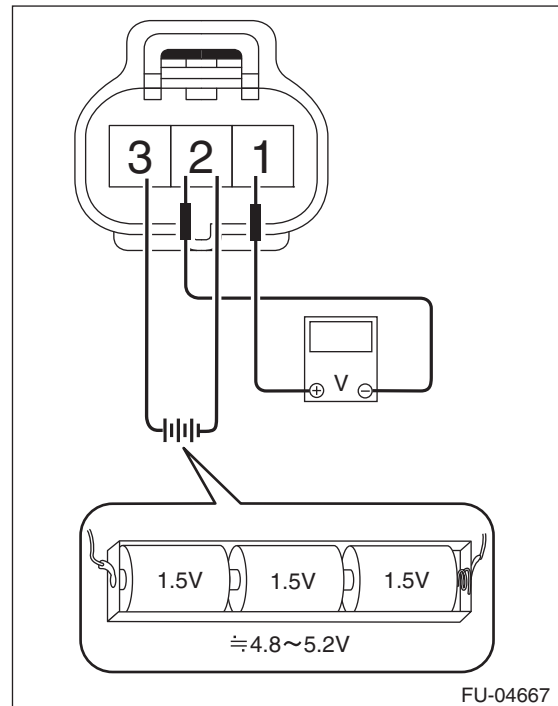
6.4 N·m (0.7 kgf-m, 4.7 ft-lb)

C: INSPECTION

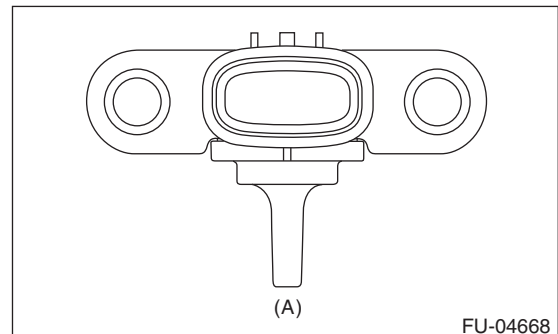
- 1) Check that the manifold absolute pressure sensor has no deformation, cracks or other damages.
- 2) Connect dry-cell battery positive terminal to terminal No. 3 and dry-cell battery ground terminal to terminal No. 1, circuit tester positive terminal to terminal No. 2 and the circuit tester negative terminal to terminal No. 1.

NOTE:

- Use new dry-cell batteries.
- Using circuit tester, check the voltage of a single dry-cell battery is 1.6 V or more. And also check the voltage of three batteries in series is between 4.8 V and 5.2 V.



- 3) Connect the Mighty Vac to the pressure port (A) of manifold absolute pressure sensor.



4) Check the voltage when generating vacuum and positive pressure using Mighty Vac.

CAUTION:

Do not apply vacuum of less than -88 kPa (-0.9 kgf/cm², -12.8 psi). Doing so may damage the manifold absolute pressure sensor.

NOTE:

When vacuum occurs at the pressure port of manifold absolute pressure sensor, the voltage will drop from the value as in step 3). When positive pressure occurs, on the other hand, the voltage will rise.

Pressure	Terminal No.	Standard
-88 kPa (-0.9 kgf/cm ² , -12.8 psi)	2 (+) and 1 (-)	Approx. 1 V (when 25°C (77°F))
-35 kPa (-0.4 kgf/cm ² , -5.1 psi)		Approx. 2.6 V (when 25°C (77°F))
19 kPa (-0.2 kgf/cm ² , 2.8 psi)		Approx. 4.2 V (when 25°C (77°F))