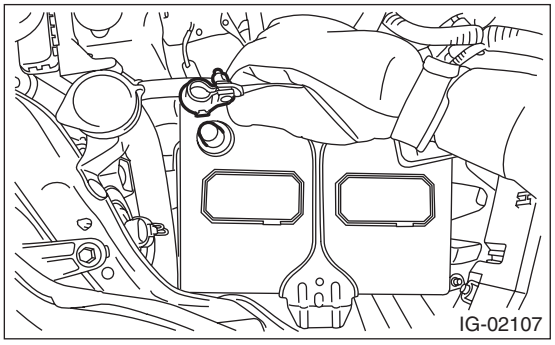
9. Fuel Tank Pressure Sensor

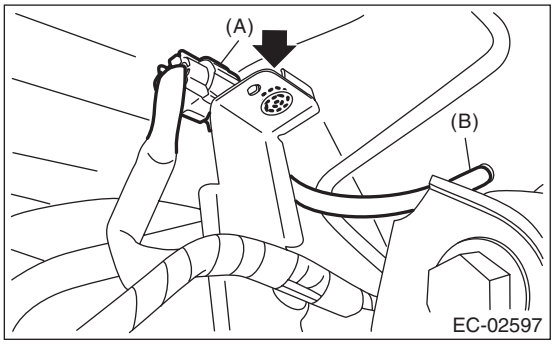
A: REMOVAL

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

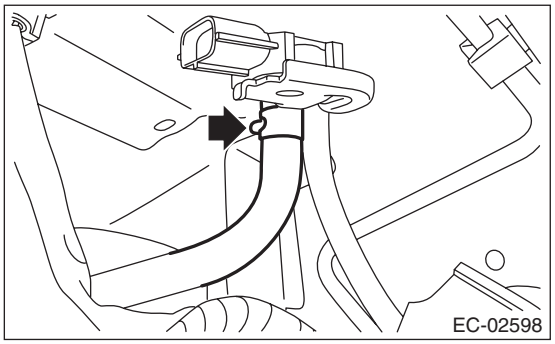
1) Disconnect the ground cable from battery.



2) Open the fuel filler lid and remove the fuel filler cap.
3) Lift up the vehicle.
4) Disconnect connector (A) from fuel tank pressure sensor.
5) Pull out the vacuum hose (B) from vehicle.
6) Remove the fuel tank pressure sensor from the bracket.



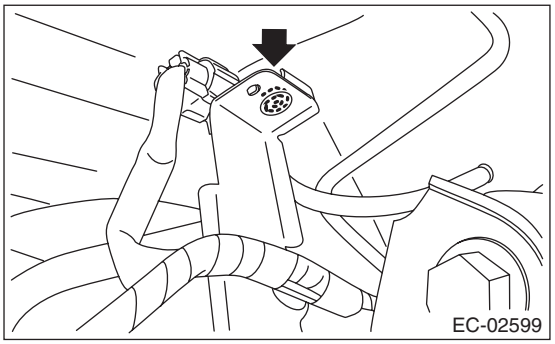
7) Disconnect the pressure hose from fuel tank pressure sensor and remove the fuel tank pressure sensor.



B: INSTALLATION

Install in the reverse order of removal.

Tightening torque:
7.35 N·m (0.7 kgf-m, 5.4 ft-lb)

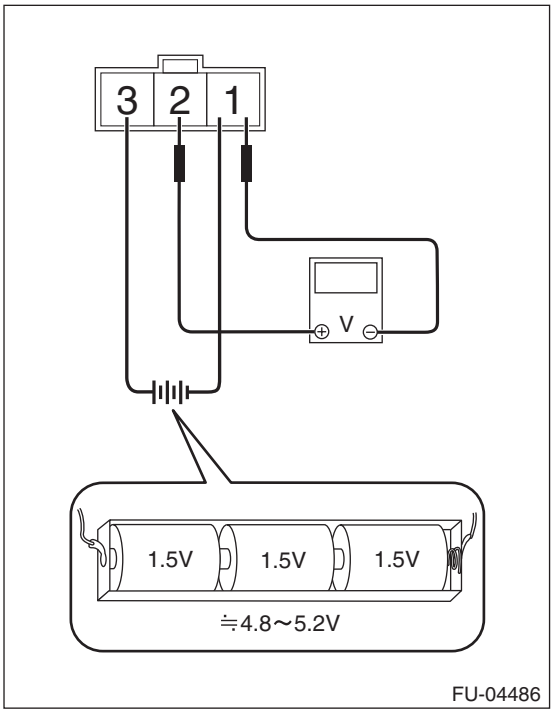


C: INSPECTION

1. FUEL TANK PRESSURE SENSOR

1) Check that the fuel tank pressure sensor does not have 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.

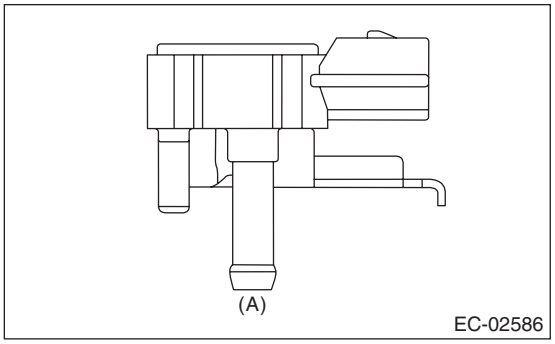


3) Check the voltage at a normal atmospheric pressure.

NOTE:
The atmospheric pressure at higher altitude is lower than normal. Therefore, the voltage is lower than the standard value.

Terminal No.	Standard
2 (+) and 1 (–)	Approx. 2.5 V (when 25°C (77°F))

4) Connect the Mighty Vac to the pressure port (A) on the fuel tank pressure sensor.



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

CAUTION:
Be sure to apply pressure within a range of –10 — 20 kPa (–0.1 — 0.2 kgf/cm^2, –1.45 — 2.90 psi). Otherwise the fuel tank pressure sensor will be damaged.

Pressure	Terminal No.	Standard
–6.67 kPa (–0.07 kgf/cm^2, –0.97 psi)	2 (+) and 1 (–)	Approx. 0.5 V (when 25°C (77°F))
6.67 kPa (0.07 kgf/cm^2, 0.97 psi)		Approx. 4.5 V (when 25°C (77°F))

2. OTHER INSPECTIONS

Check that the hose has no cracks, damage or loose part.