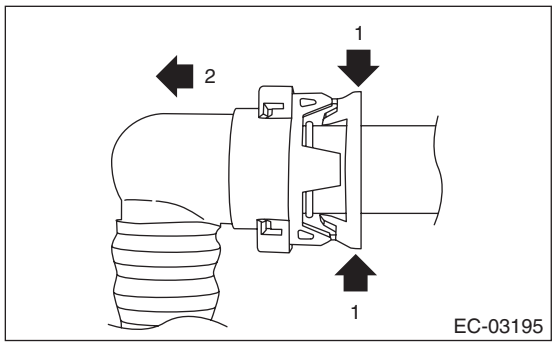
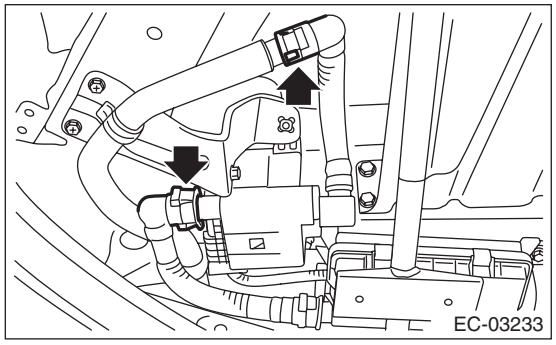
10.Leak Check Valve Assembly

A: REMOVAL

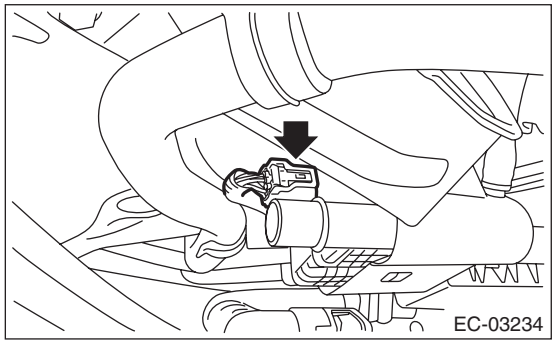
1) Remove the spare tire from the vehicle.
2) Disconnect the ground cable from battery.
3) Lift up the vehicle.
4) Disconnect the drain tube and drain hose from the leak check valve assembly.

NOTE:
Disconnect the quick connector as shown in the figure.

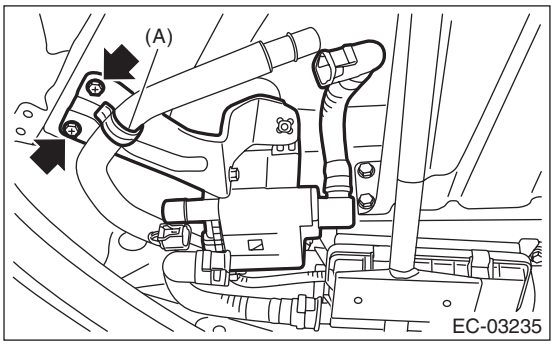




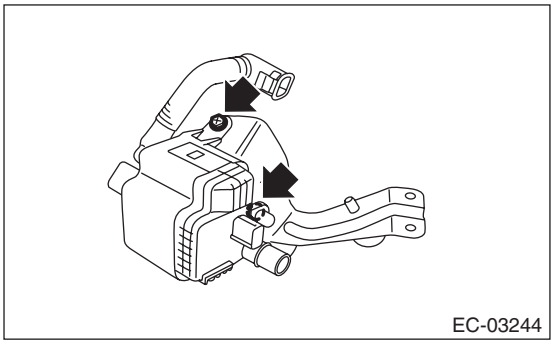
5) Disconnect the connector from the leak check valve assembly.



6) Disconnect the drain hose from the clip (A) and remove the leak check valve assembly.



7) Remove the bracket from the leak check valve assembly.

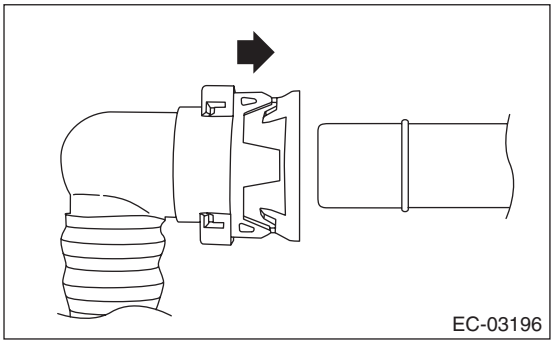


B: INSTALLATION

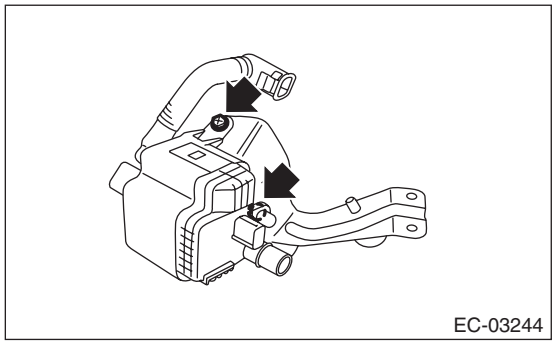
Install in the reverse order of removal.

CAUTION:
• Make sure there are no damage or dust on connections. If necessary, clean the seal surface of the pipe.
• Make sure that the quick connector is securely connected.

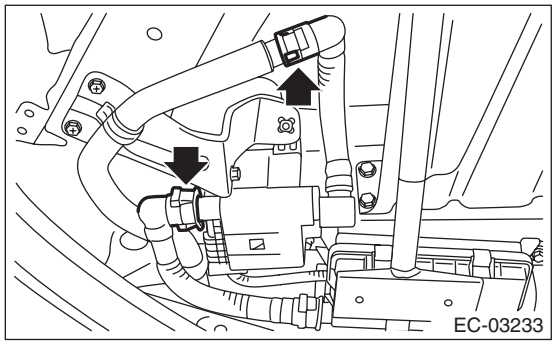
NOTE:
Connect the quick connector as shown in the figure.



Tightening torque:
5.4 N·m (0.6 kgf-m, 4.0 ft-lb)



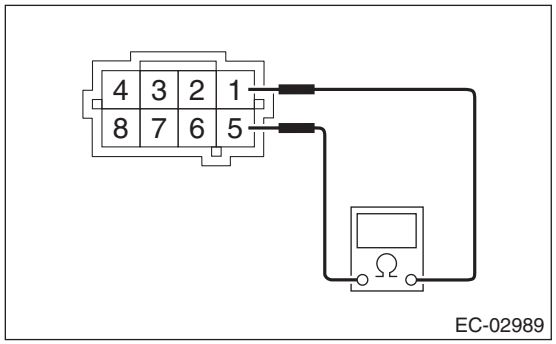
Tightening torque:
7.5 N·m (0.8 kgf-m, 5.5 ft-lb)



C: INSPECTION

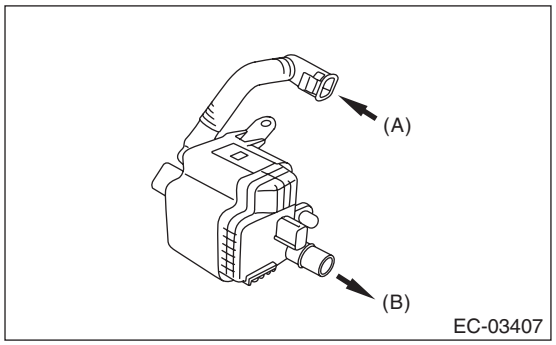
1. CHECK SWITCHING VALVE

1) Check the resistance between switching valve terminals.

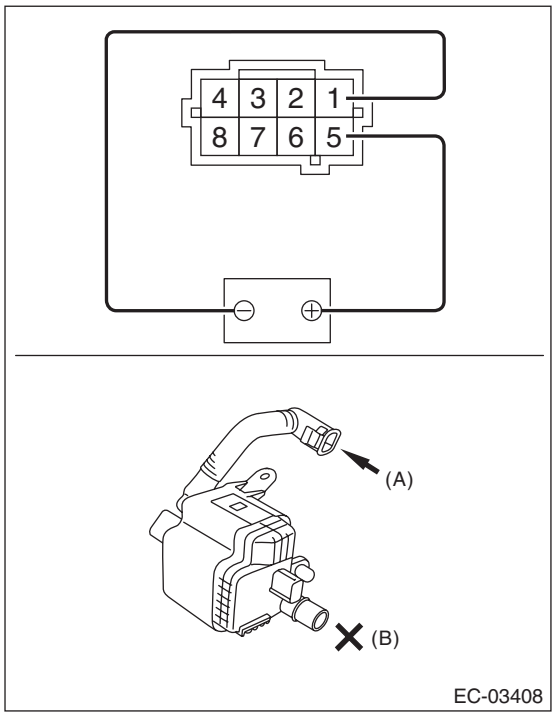


Terminal No.	Standard
1 and 5	27^{+3}_{-2} Ω (when 20°C (68°F))
	31±4 Ω (when 60°C (140°F))

2) Check that air is discharged from (B) when air is blown into (A).



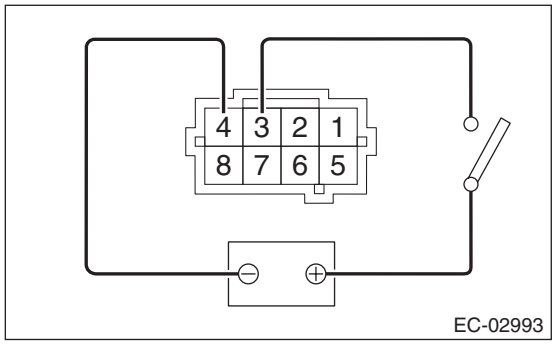
3) Connect the battery positive terminal to the terminal No. 5 and the battery negative terminal to the terminal No. 1. Check that air does not come out from (B) when air is blown into (A).



2. CHECK VACUUM PUMP

1) Connect the battery positive terminal to terminal No. 3 and the battery ground terminal to terminal No. 4, and inspect the vacuum pump operation.

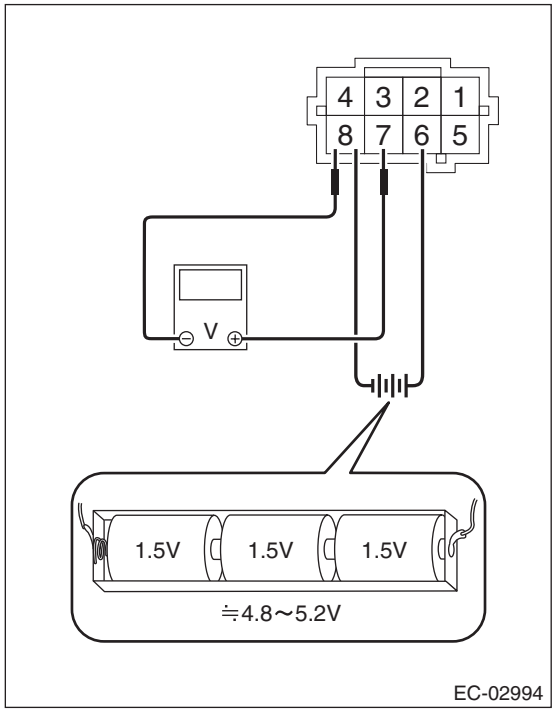
CAUTION:
Do not operate the vacuum pump for 5 minutes or more.



3. CHECK PRESSURE SENSOR

1) Connect dry-cell battery positive terminal to terminal No. 6 and dry-cell battery ground terminal to terminal No. 8, circuit tester positive terminal to terminal No. 7 and the circuit tester negative terminal to terminal No. 8.

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.

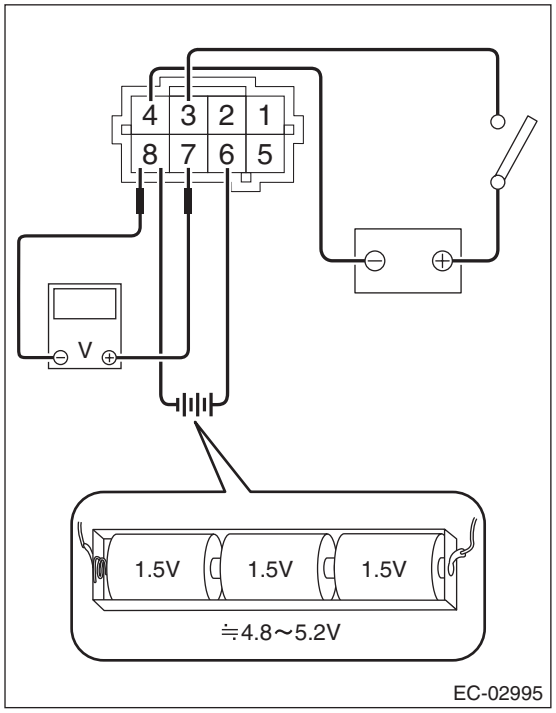


2) Check the voltage at a normal atmospheric pressure.

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

Terminal No.	Standard
7 (+) and 8 (–)	Approx. 3.5 V (when 25°C (77°F))

3) Connect the battery positive terminal to terminal No. 3 and the battery ground terminal to terminal No. 4, and check that there is a voltage drop from the voltage measured in step 2) when the vacuum pump is operated.



4. OTHER INSPECTIONS

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