

13. Mass Air Flow and Intake Air Temperature Sensor

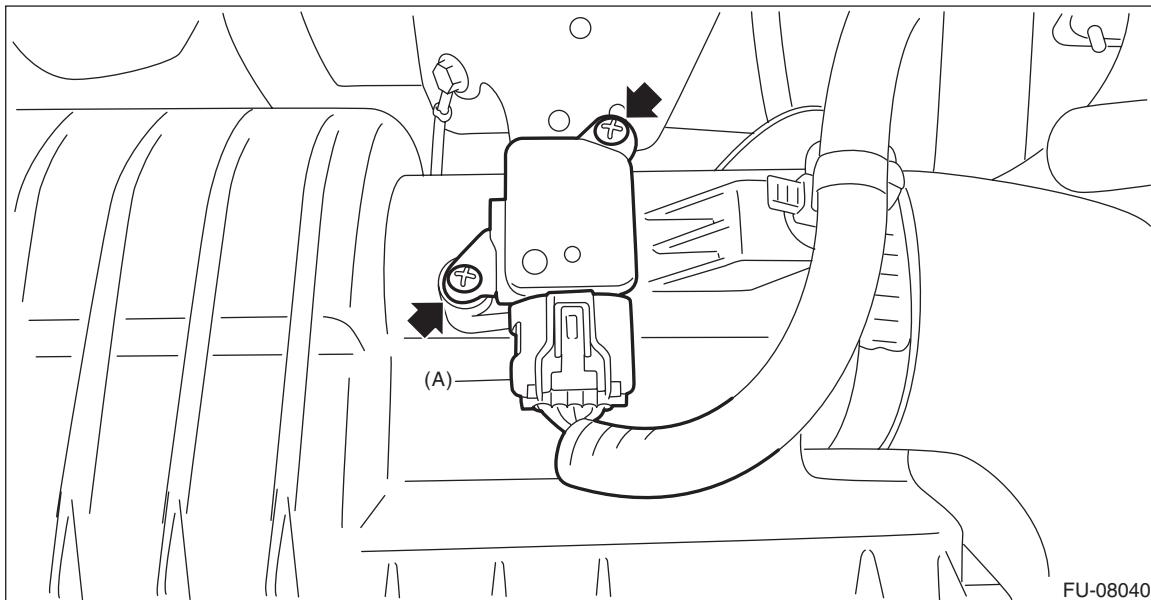
A: REMOVAL

- 1) 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.

- 2) Disconnect the connector (A) from the mass air flow and intake air temperature sensor, and remove the mass air flow and intake air temperature sensor.



B: INSTALLATION

Install in the reverse order of removal.

Tightening torque:

1 N·m (0.1 kgf·m, 0.7 ft-lb)

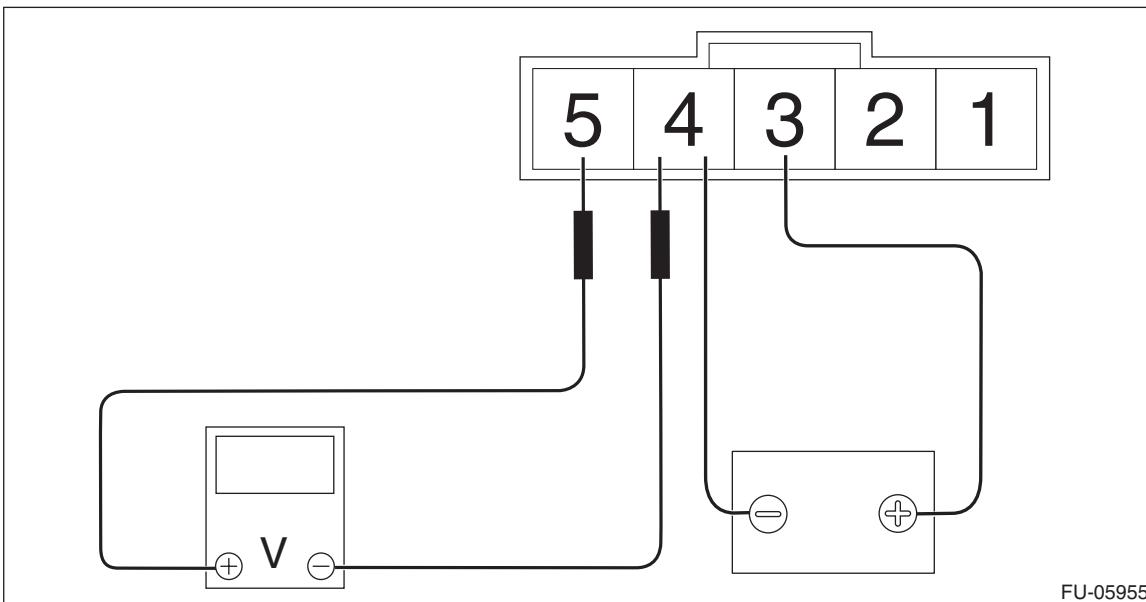
Mass Air Flow and Intake Air Temperature Sensor

FUEL INJECTION (FUEL SYSTEMS)

C: INSPECTION

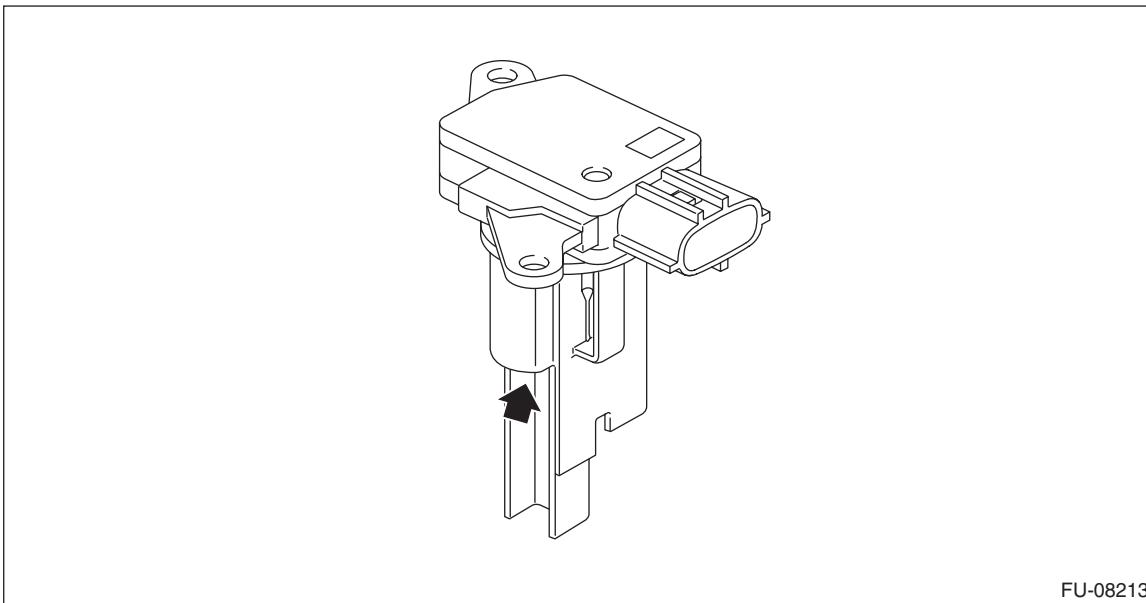
1. CHECK THE MASS AIR FLOW SENSOR UNIT

- 1) Connect the battery positive terminal to terminal No. 3 and the battery ground terminal to terminal No. 4, the circuit tester positive terminal to terminal No. 5 and the circuit tester ground terminal to terminal No. 1.



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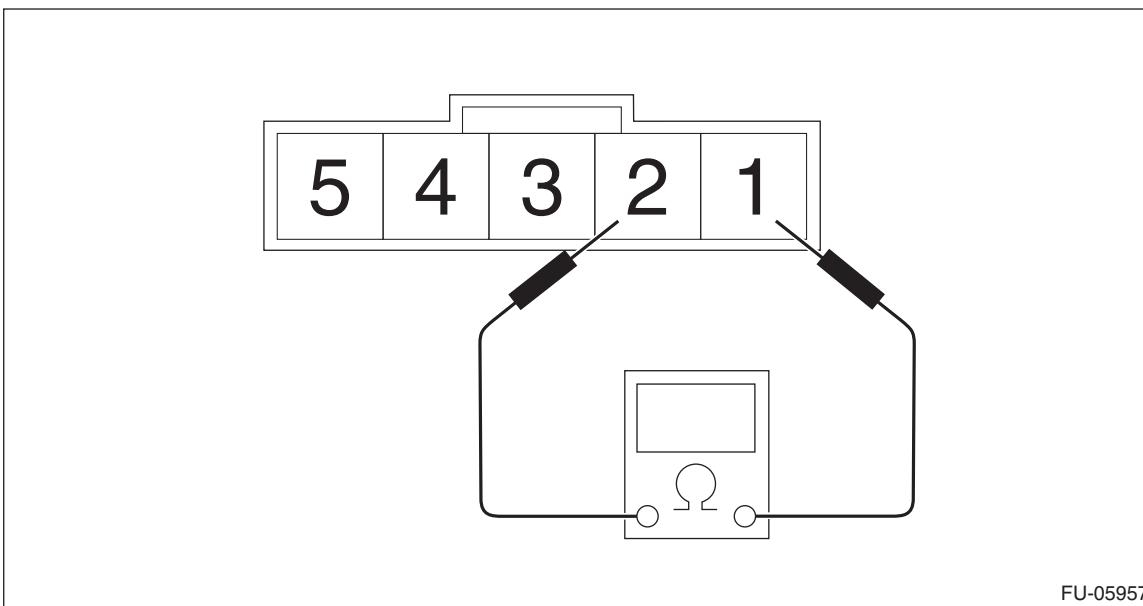
- 2) Check the voltage changes when air is blown from the arrow pointing area to the mass air flow sensor unit.



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2. CHECK THE INTAKE AIR TEMPERATURE SENSOR UNIT

Measure the resistance between intake air temperature sensor terminals.



| Temperature | Terminal No. | Standard |
|--------------|--------------|---------------|
| -20°C (-4°F) | 1 and 2 | 16.0±2.4 kΩ |
| 20°C (68°F) | | 2.45±0.24 kΩ |
| 60°C (140°F) | | 0.58±0.087 kΩ |

3. OTHER INSPECTIONS

- 1) Check that the mass air flow and intake air temperature sensor has no deformation, cracks or other damages.
- 2) Check that the mass air flow and intake air temperature sensor has no dirt.