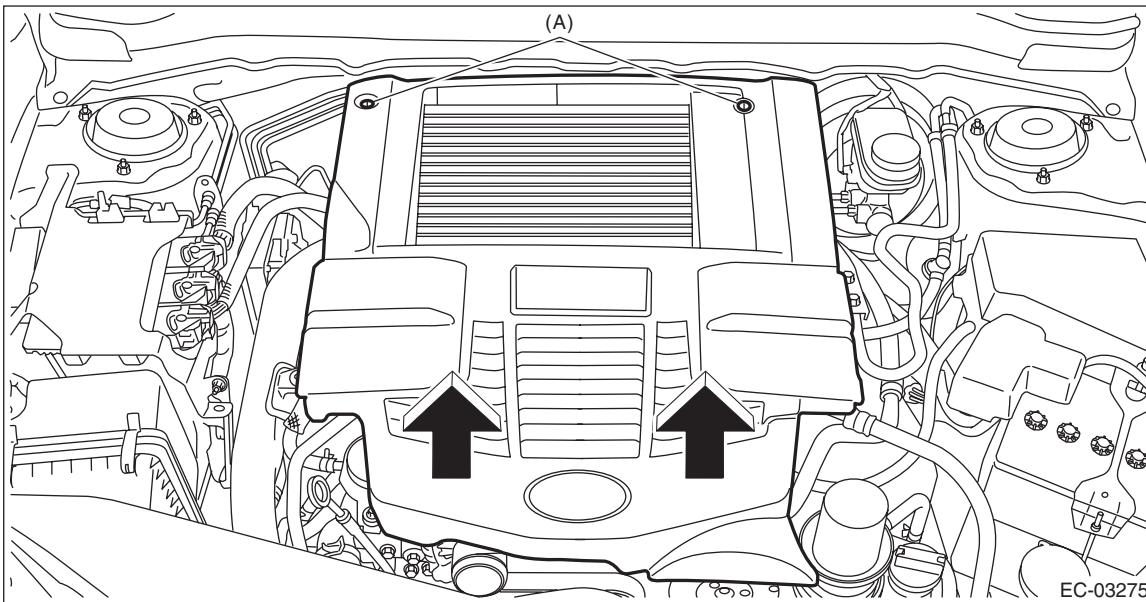


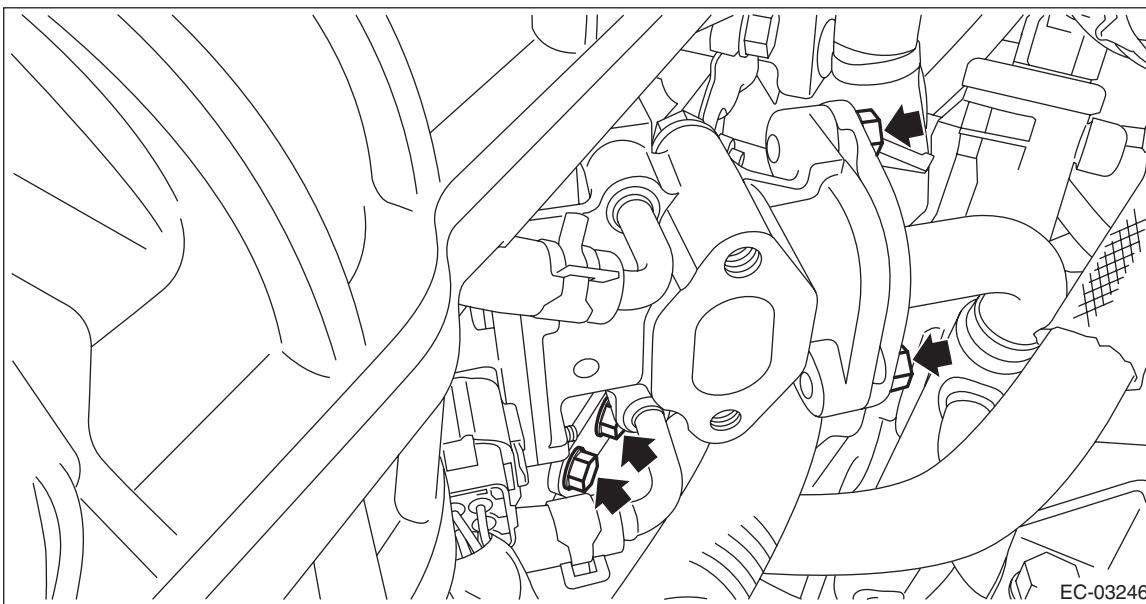
7. EGR Control Valve

A: REMOVAL

- 1) Remove the clip (A), lift the front of the collector cover in the direction of arrow, and then remove the collector cover.



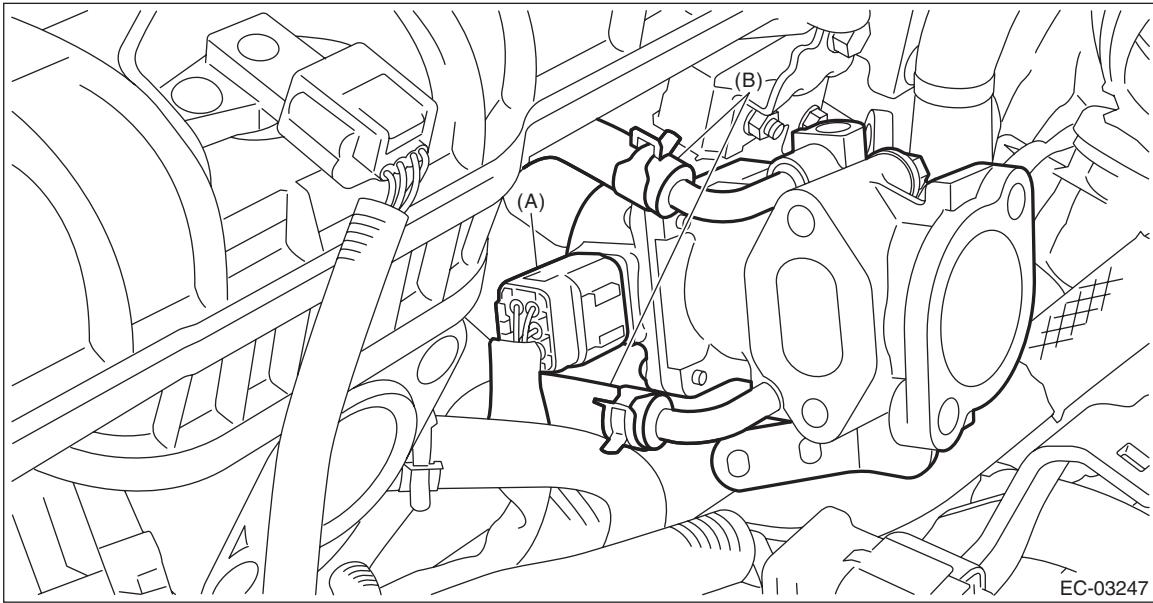
- 2) Disconnect the ground cable from battery.
- 3) Lift up the vehicle.
- 4) Remove the under cover. <Ref. to EI-22, REMOVAL, Front Under Cover.>
- 5) Drain approximately 3.0 L (3.2 US qt, 2.6 Imp qt) of coolant. <Ref. to CO(H4DOTC)-13, DRAINING OF ENGINE COOLANT, REPLACEMENT, Engine Coolant.>
- 6) Remove the intercooler. <Ref. to IN(H4DOTC)-35, REMOVAL, Intercooler.>
- 7) Remove the EGR pipe. <Ref. to EC(H4DOTC)-26, REMOVAL, EGR Pipe.>
- 8) Remove the bolts which secure the EGR cooler to the EGR control valve, and remove the bolts which secure the EGR control valve bracket A to the EGR control valve bracket B.



EGR Control Valve

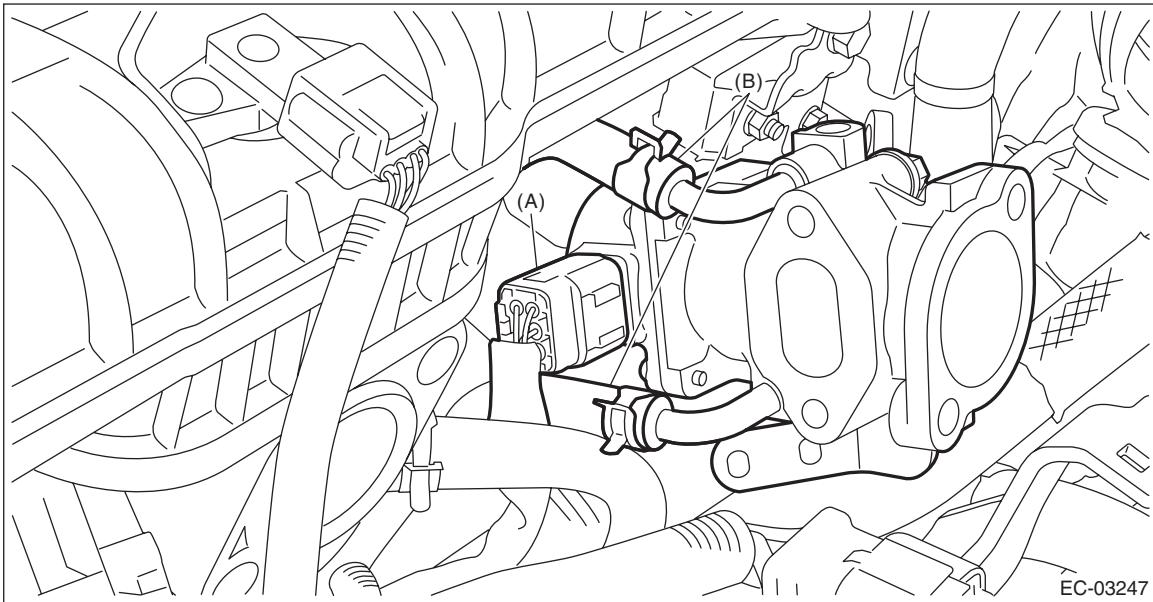
EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)

9) Disconnect the connector (A) and preheater hose (B) from EGR control valve, and remove the EGR control valve.



B: INSTALLATION

1) Connect the preheater hose (B) and connector (A) to the EGR control valve.



EGR Control Valve

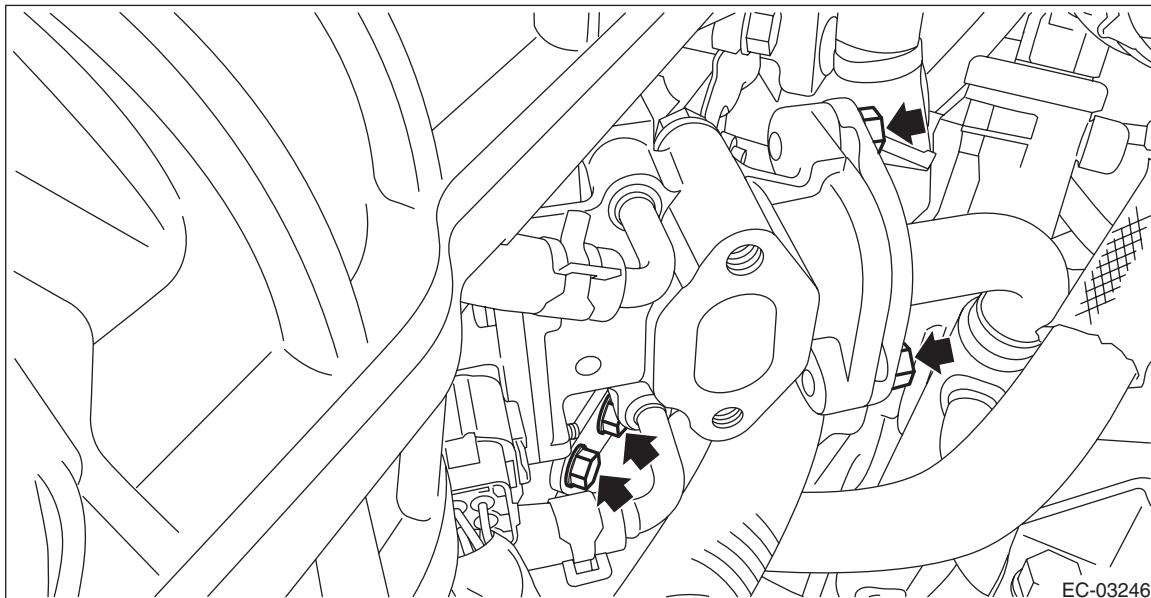
EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)

2) Install the EGR control valve and EGR control valve bracket A to the EGR cooler and EGR control valve bracket B.

(1) Set the EGR control valve and EGR control valve bracket A to the EGR cooler and EGR control valve bracket B, and temporarily tighten the bolts which secure the EGR control valve and EGR control valve bracket A to the EGR cooler and EGR control valve bracket B.

NOTE:

Use a new gasket.

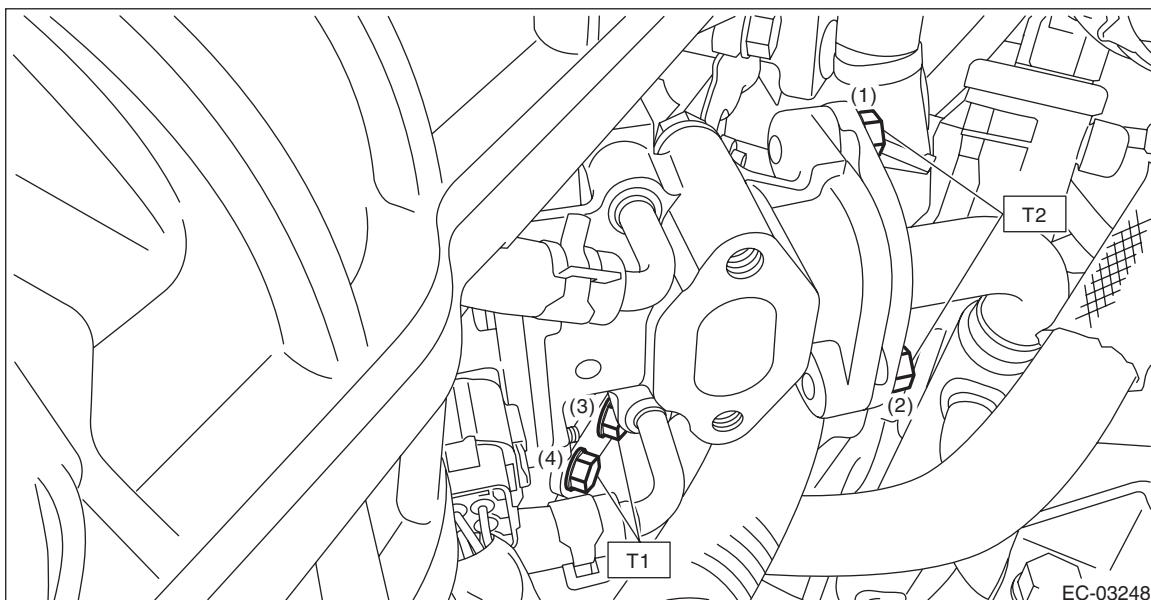


(2) Tighten the bolts which secure the EGR control valve and EGR control valve bracket A to the EGR cooler and EGR control valve bracket B in numerical order as shown in the figure.

Tightening torque:

T1: 6.4 N·m (0.7 kgf-m, 4.7 ft-lb)

T2: 19 N·m (1.9 kgf-m, 14.0 ft-lb)



3) Install the EGR pipe. <Ref. to EC(H4DOTC)-27, INSTALLATION, EGR Pipe.>

4) Install the intercooler. <Ref. to IN(H4DOTC)-37, INSTALLATION, Intercooler.>

5) Lift up the vehicle.

6) Install the under cover. <Ref. to EI-22, INSTALLATION, Front Under Cover.>

7) Lower the vehicle.

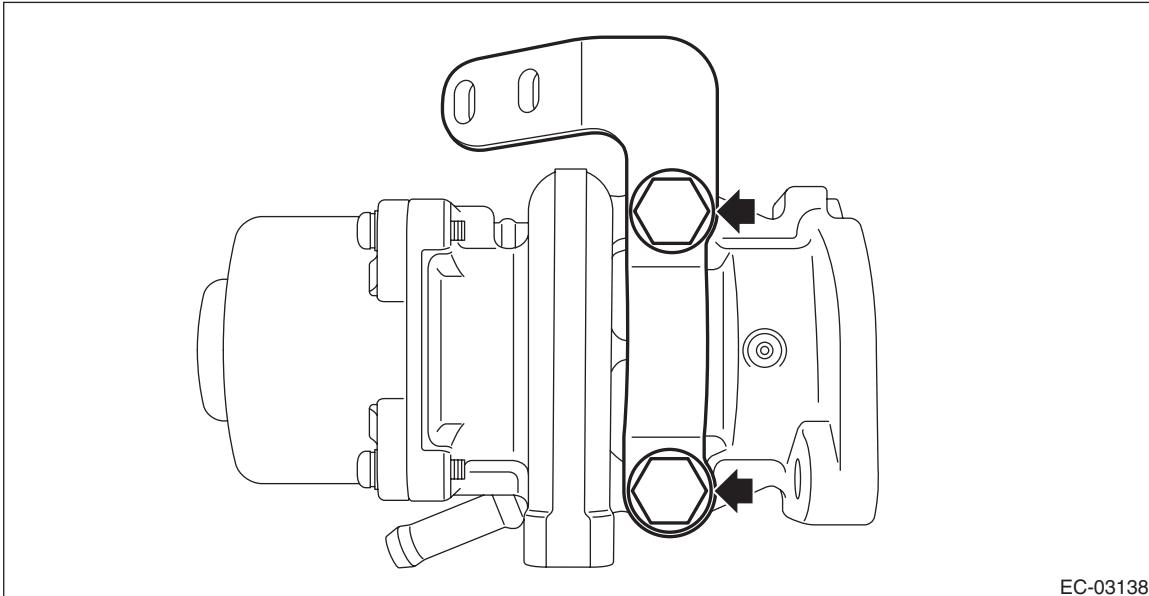
EGR Control Valve

EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)

- 8) Connect the battery ground terminal.
- 9) Fill engine coolant. <Ref. to CO(H4DOTC)-14, FILLING OF ENGINE COOLANT, REPLACEMENT, Engine Coolant.>
- 10) Install the collector cover.

C: DISASSEMBLY

Remove the EGR control valve bracket A from the EGR control valve.



D: ASSEMBLY

Assemble in the reverse order of disassembly.

Tightening torque:

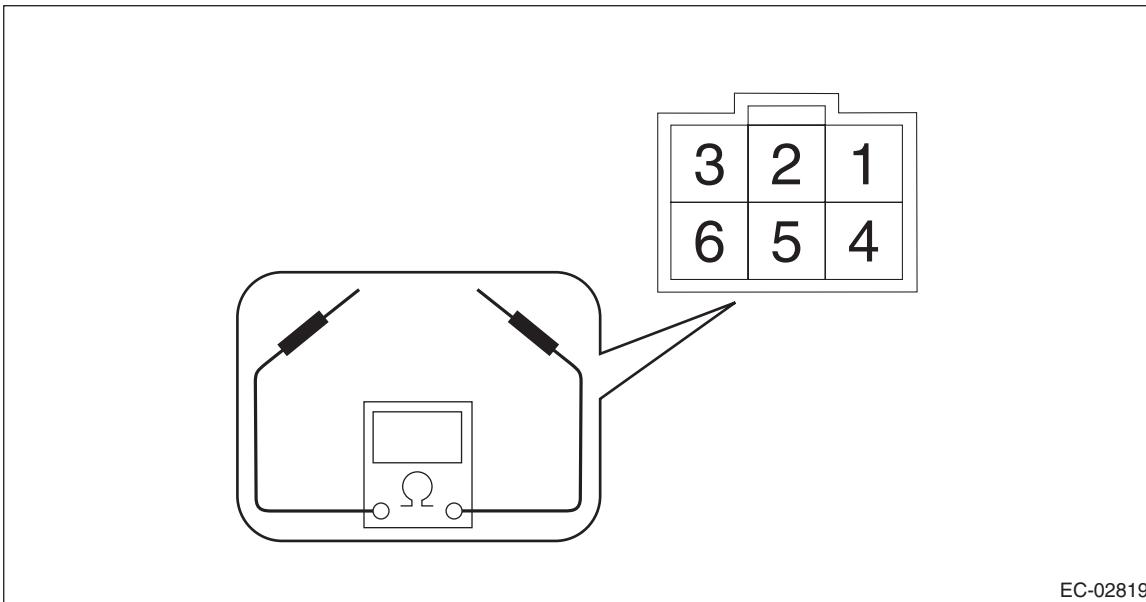
19 N·m (1.9 kgf·m, 14.0 ft-lb)

EGR Control Valve

EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)

E: INSPECTION

- 1) Check that the EGR control valve and EGR control valve bracket A have no deformation, cracks or other damages.
- 2) Measure the resistance between EGR control valve terminals.



EC-02819

| Terminal No. | Standard |
|--------------|---------------------------------|
| 2 and 1 | |
| 2 and 3 | |
| 5 and 4 | $15 \pm 2 \Omega$ (20°C (68°F)) |
| 5 and 6 | |