

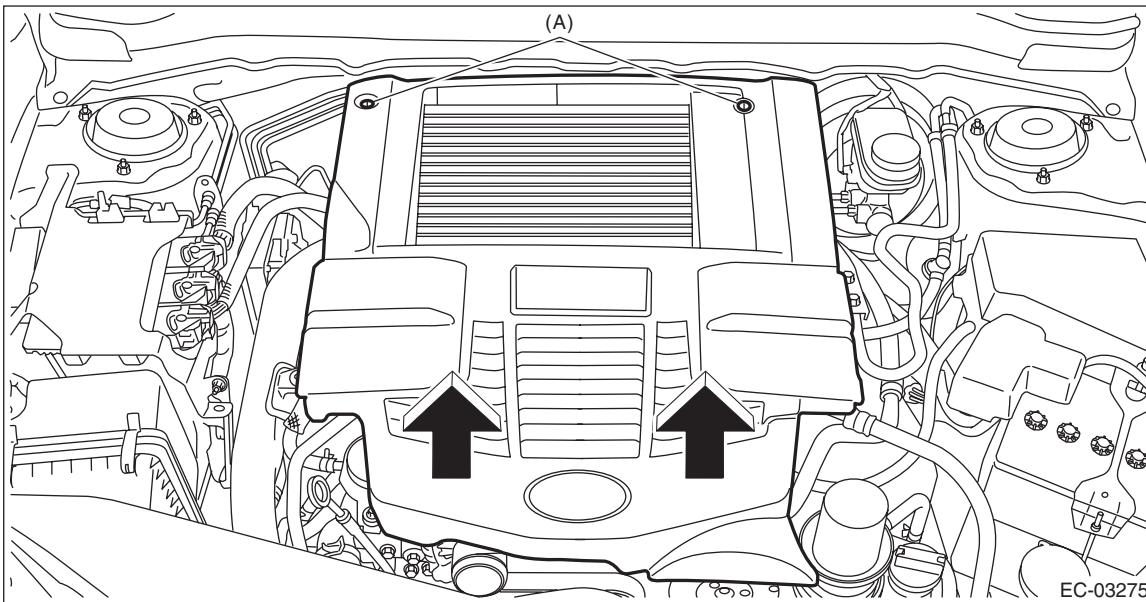
EGR Cooler

EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)

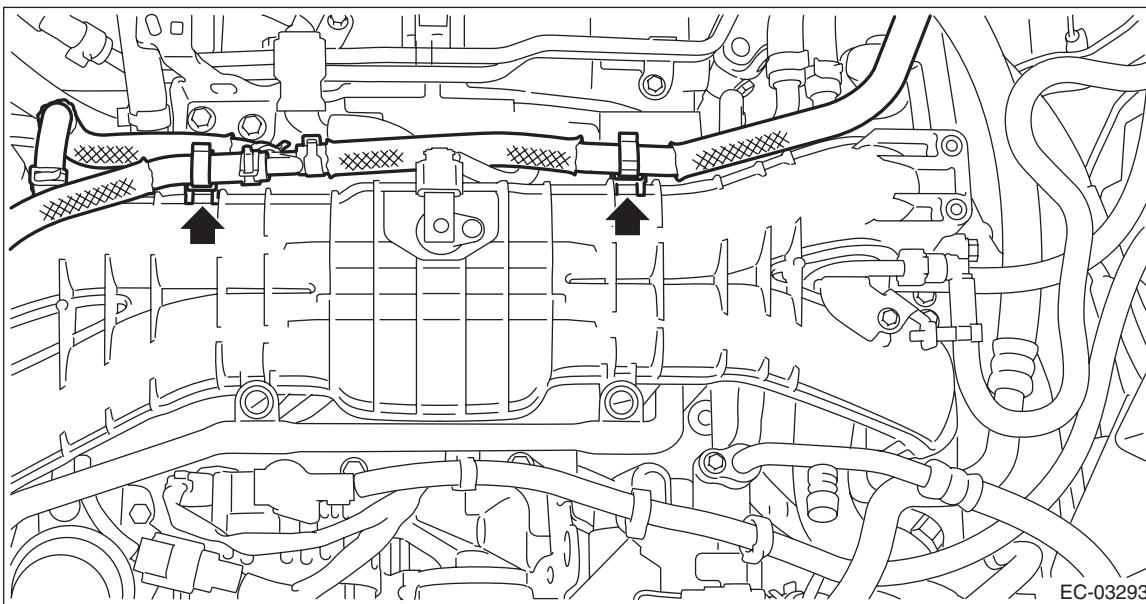
8. EGR Cooler

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) Remove the intercooler. <Ref. to IN(H4DOTC)-35, REMOVAL, Intercooler.>
- 4) Remove the clip securing the brake booster vacuum hose to the intake manifold, and move the brake booster vacuum hose at the locations that do not interfere operation.

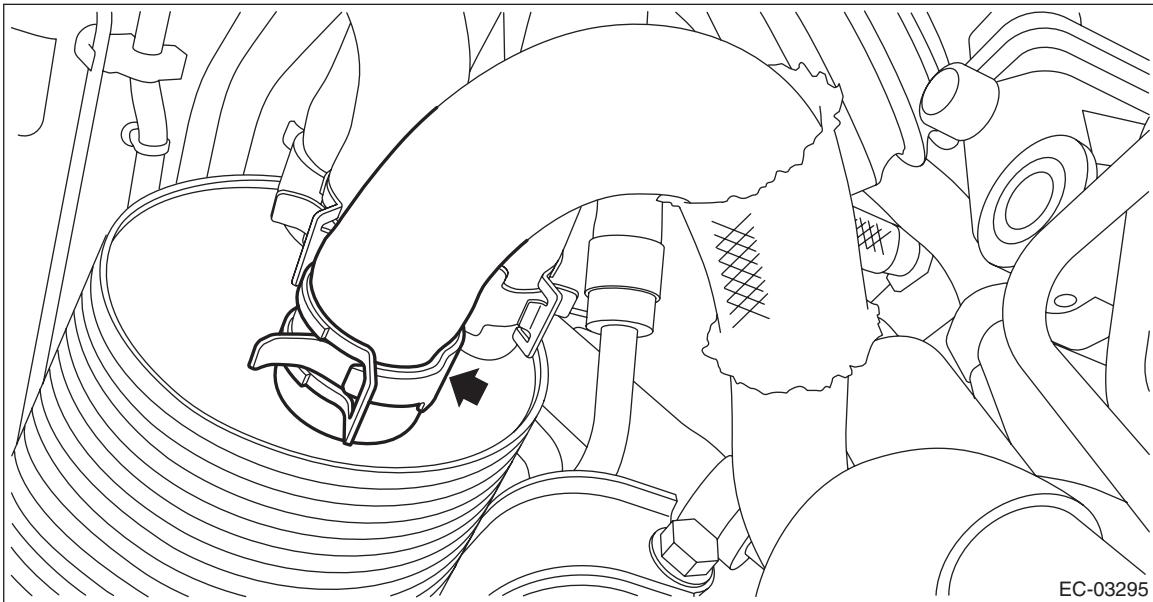


- 5) Lift up the vehicle.
- 6) Drain engine coolant. <Ref. to CO(H4DOTC)-13, DRAINING OF ENGINE COOLANT, REPLACEMENT, Engine Coolant.>

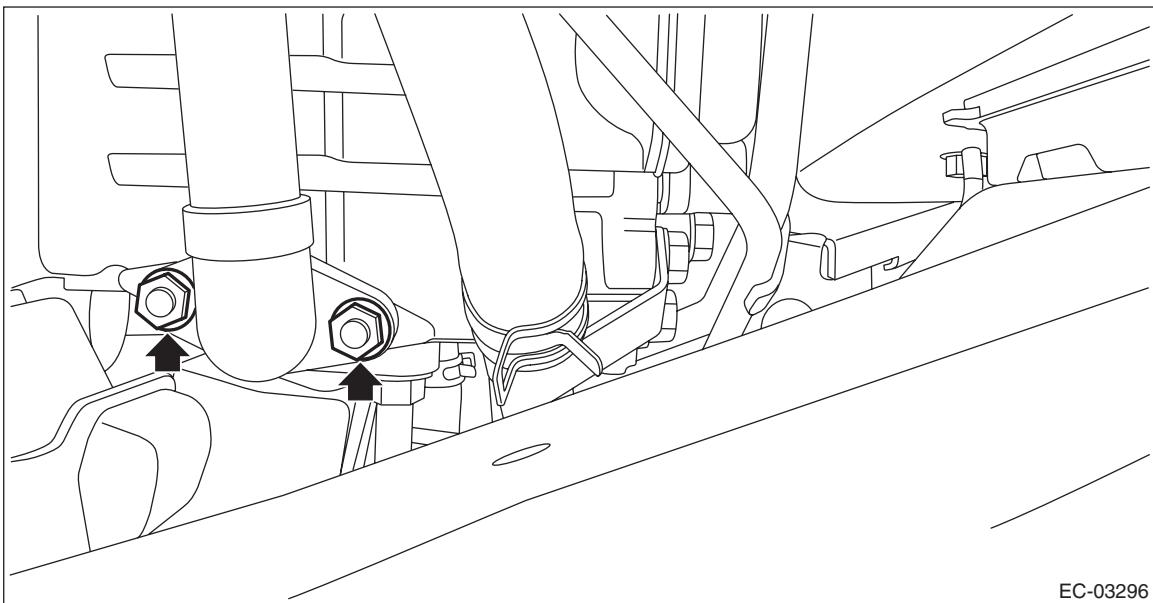
EGR Cooler

EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)

- 7) Disconnect the engine coolant outlet hose from the CVTF cooler (with warmer feature).



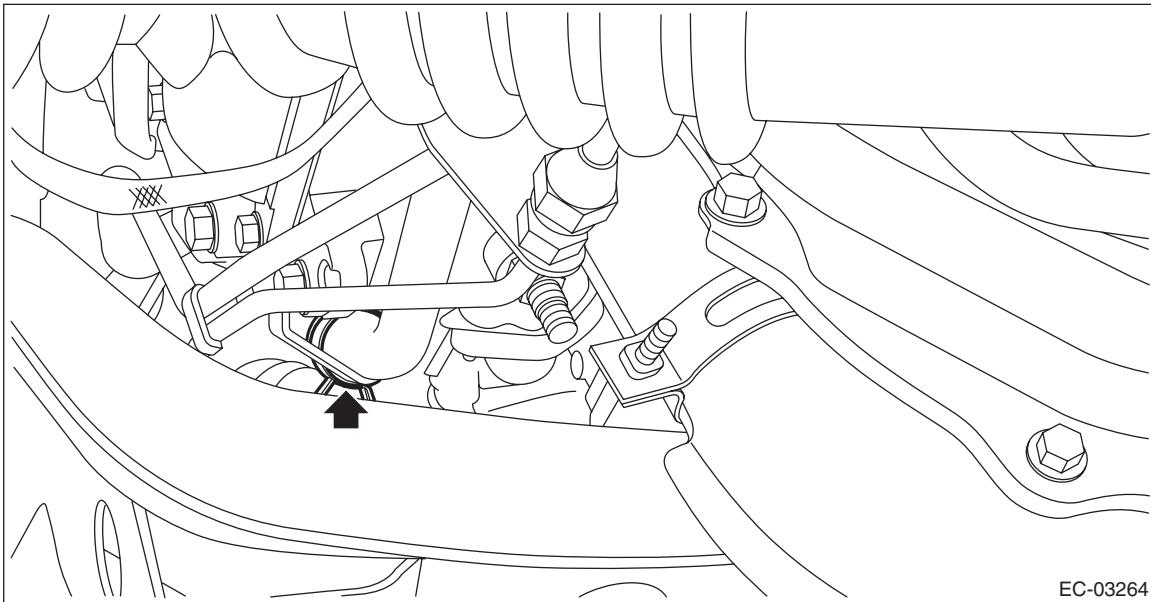
- 8) Remove the nut which secures the EGR cooler to the cylinder block RH.



EGR Cooler

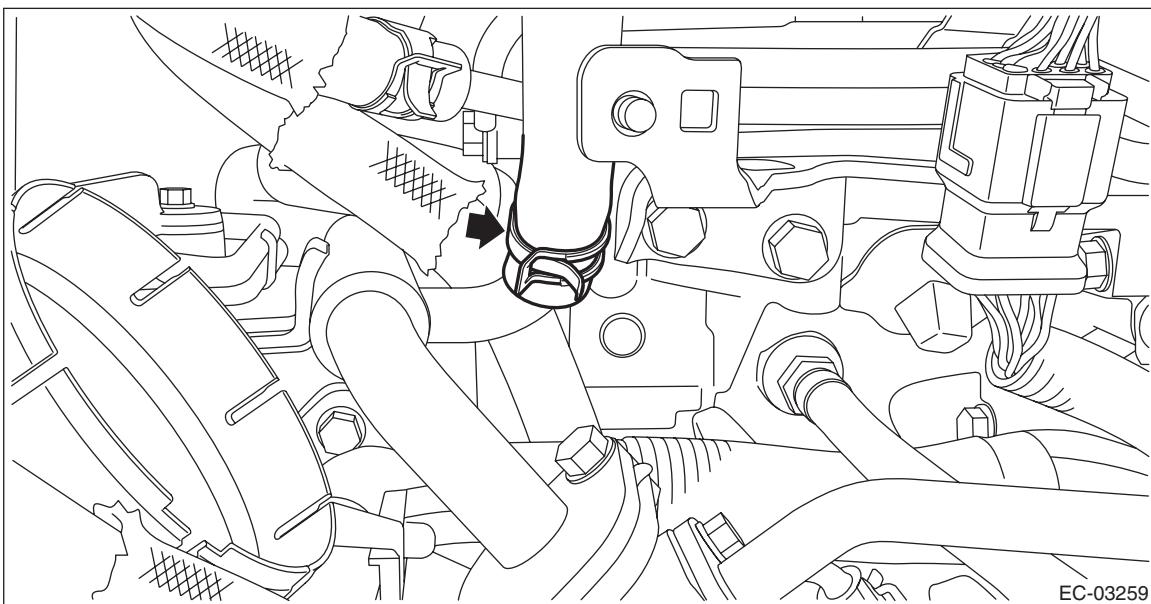
EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)

9) Disconnect the water hose from the water pipe RH.



10) Lower the vehicle.

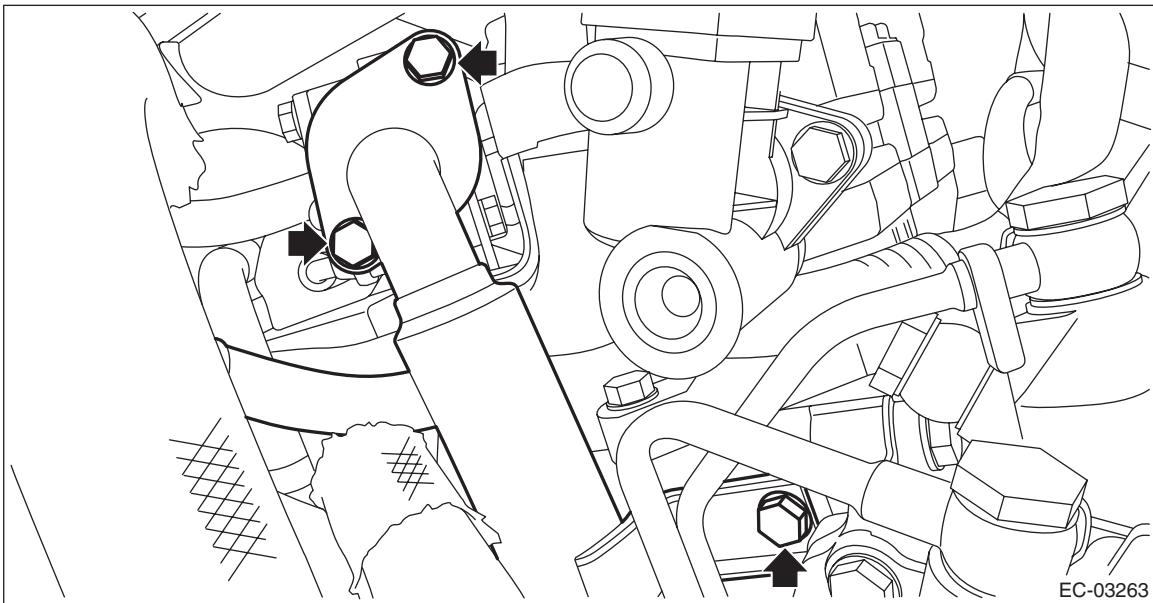
11) Disconnect the engine coolant inlet hose from the EGR cooler.



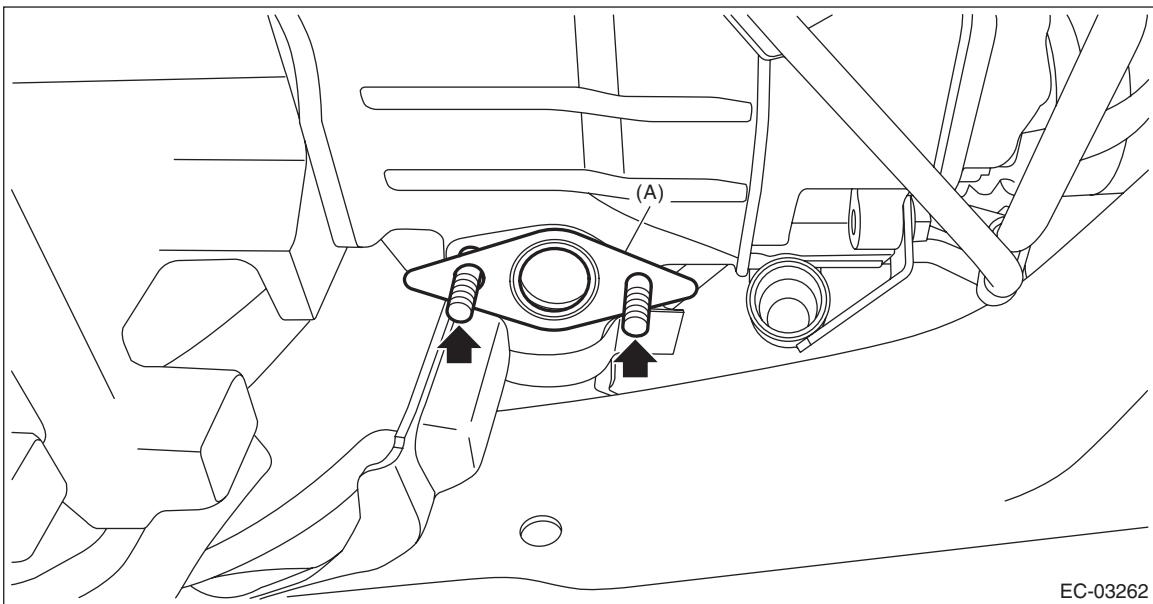
EGR Cooler

EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)

- 12) Remove the bolts which secure the EGR cooler to the EGR control valve and cylinder head RH, and remove the EGR cooler.



- 13) Remove the gasket (A) from the stud bolt, and remove the stud bolt from the cylinder head RH.



EGR Cooler

EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)

B: INSTALLATION

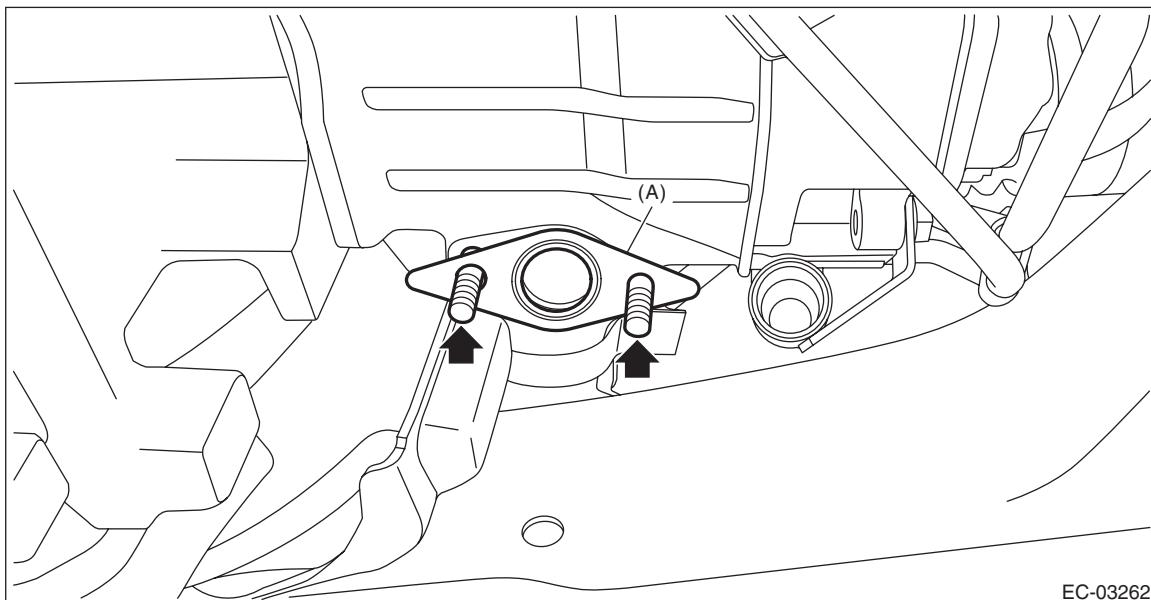
1) Install the stud bolt to the cylinder head RH, and set the gasket (A) to the stud bolt.

NOTE:

Use a new stud bolt and gasket.

Tightening torque:

6.4 N·m (0.7 kgf-m, 4.7 ft-lb)



2) Set the EGR cooler to the EGR control valve and cylinder head RH, and install the bolts which secure the EGR cooler to the EGR control valve and cylinder head RH.

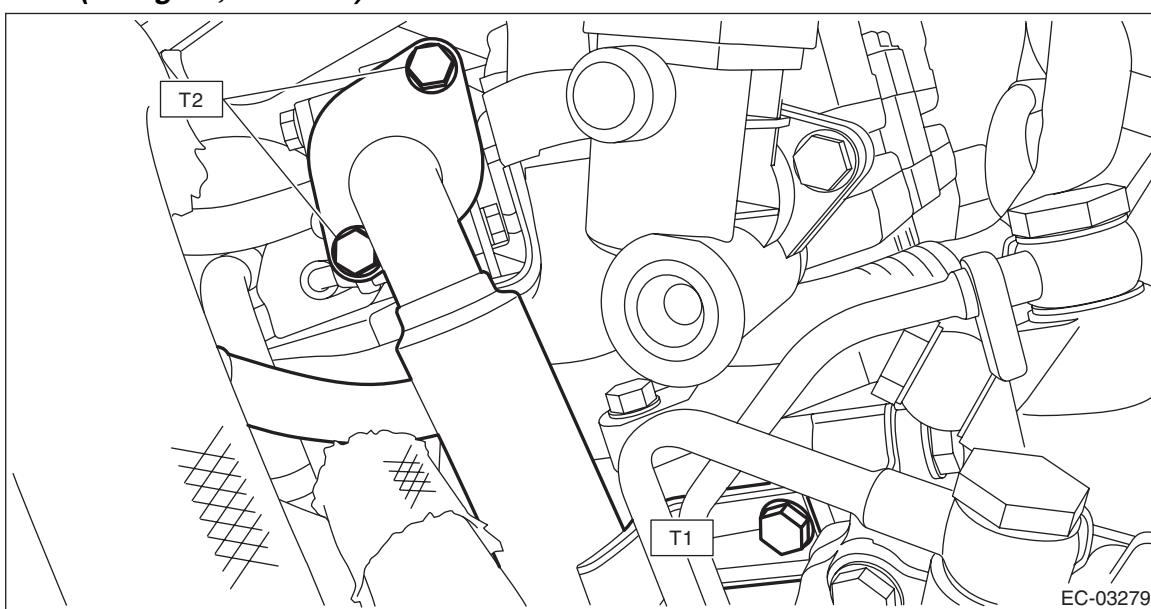
NOTE:

Use a new gasket.

Tightening torque:

T1: 6.4 N·m (0.7 kgf-m, 4.7 ft-lb)

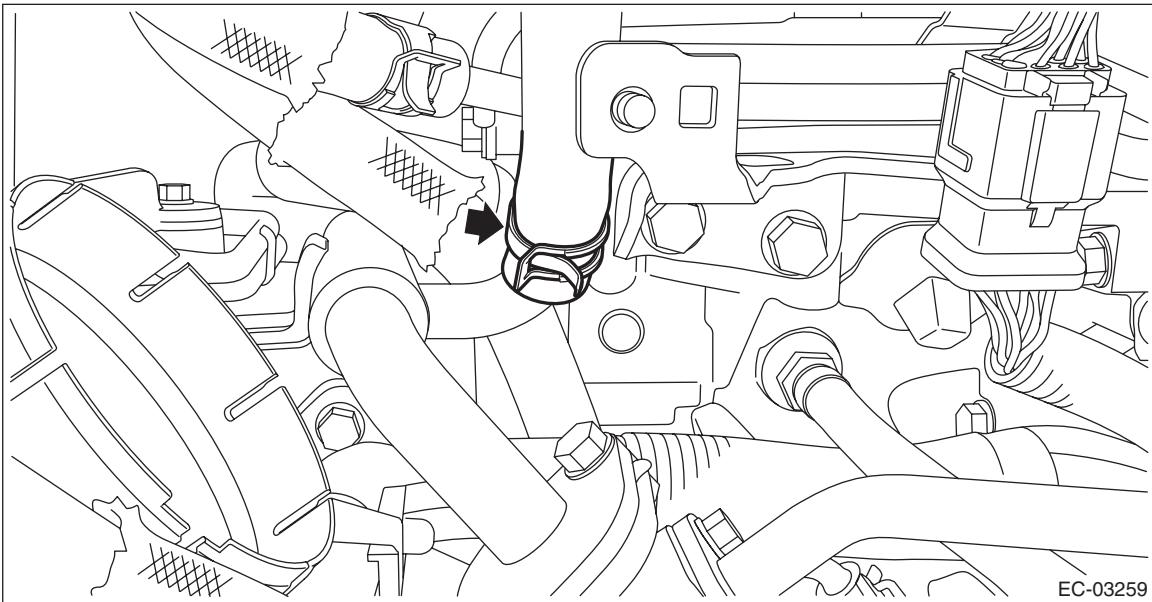
T2: 19 N·m (1.9 kgf-m, 14.0 ft-lb)



EGR Cooler

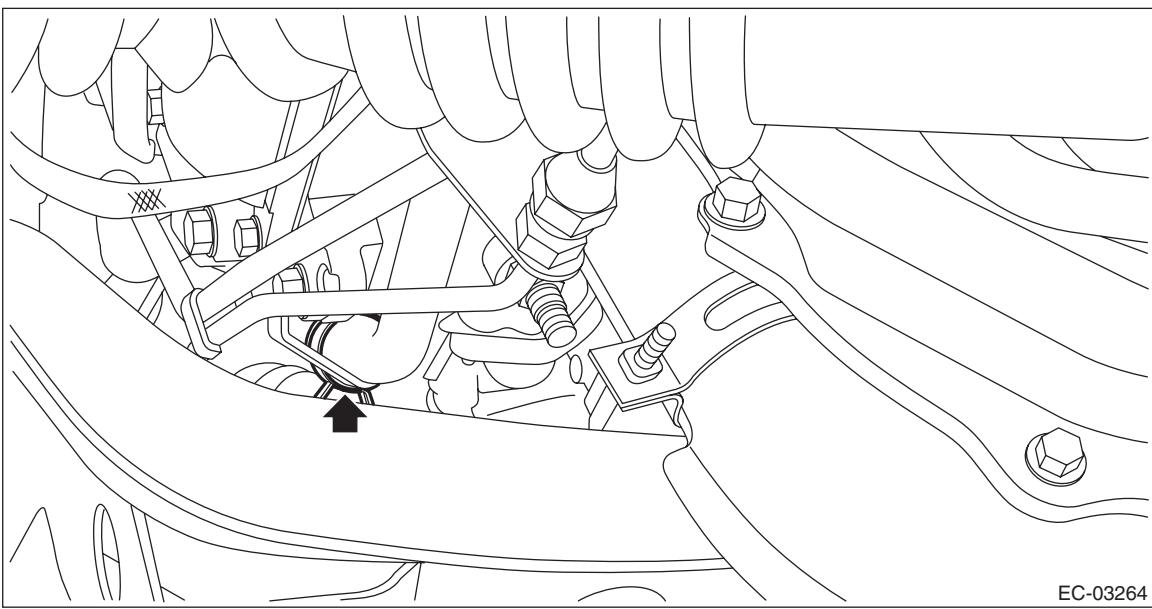
EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)

- 3) Connect the engine coolant inlet hose to the EGR cooler.



- 4) Lift up the vehicle.

- 5) Connect the water hose to the water pipe RH.



EGR Cooler

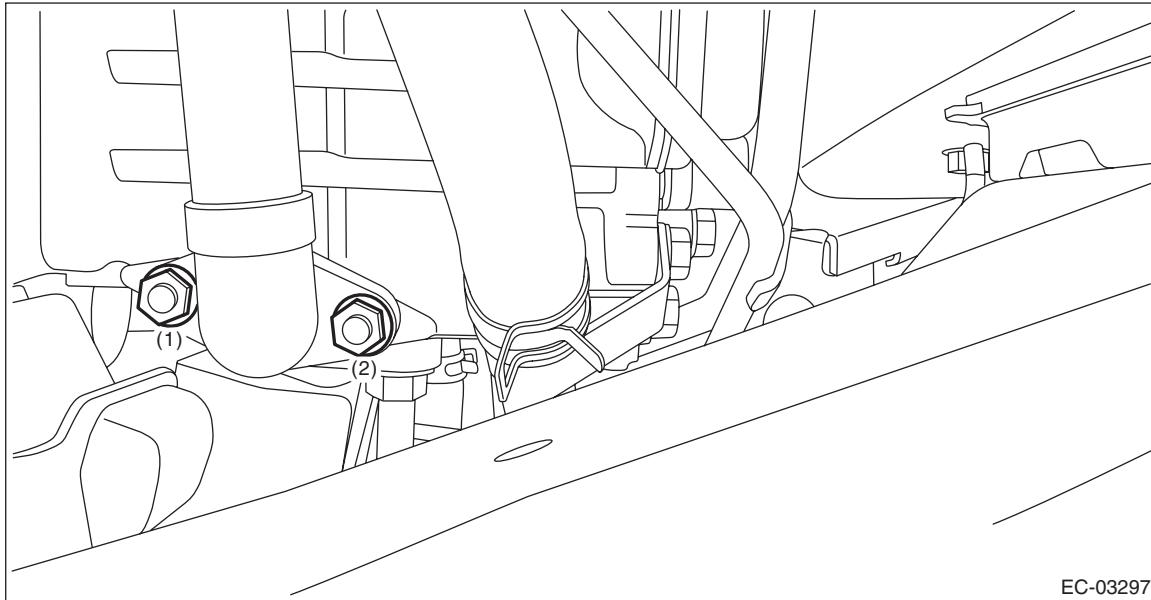
EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)

6) Install the EGR cooler to the cylinder block RH.

(1) Tighten the nuts which secure the EGR cooler to the cylinder block RH in numerical order as shown in the figure.

Tightening torque:

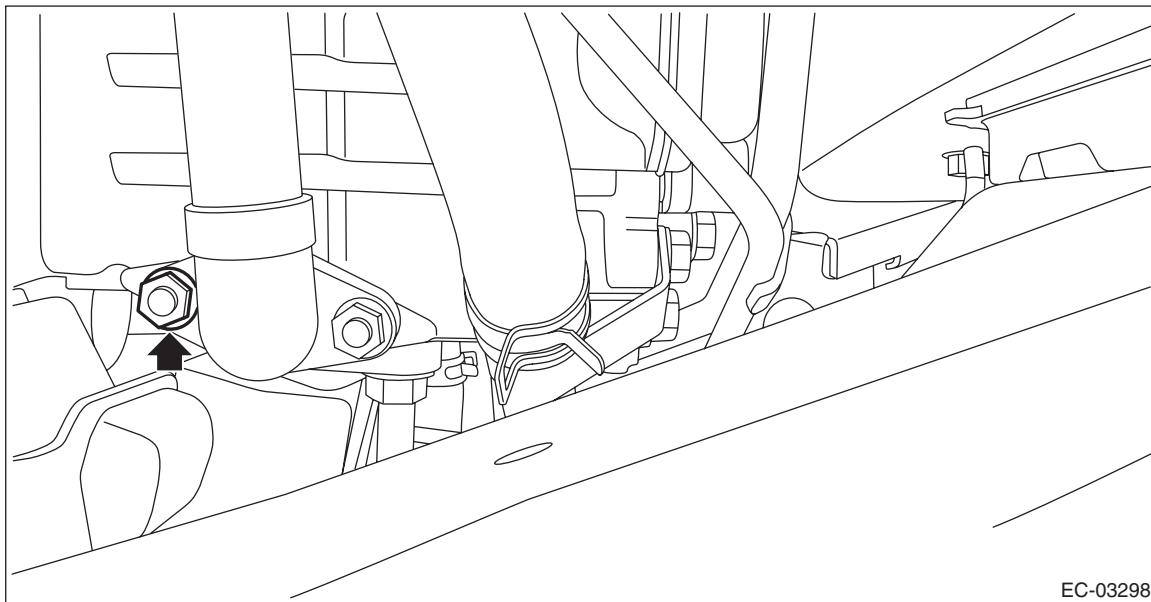
9 N·m (0.9 kgf·m, 6.6 ft-lb)



(2) Retighten the nut shown in the figure.

Tightening torque:

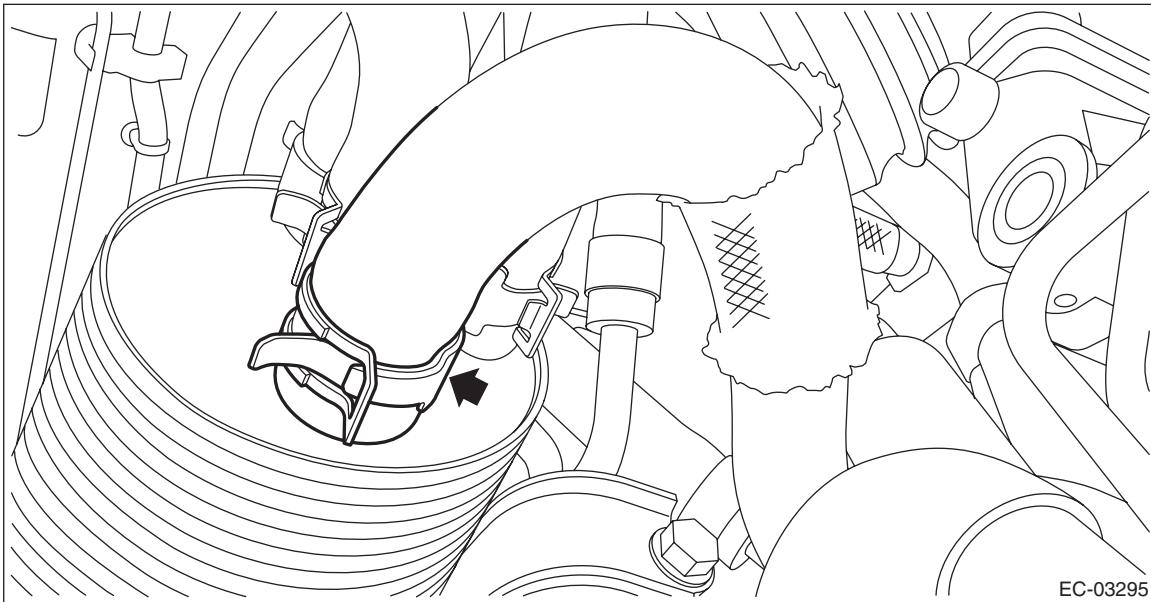
9 N·m (0.9 kgf·m, 6.6 ft-lb)



EGR Cooler

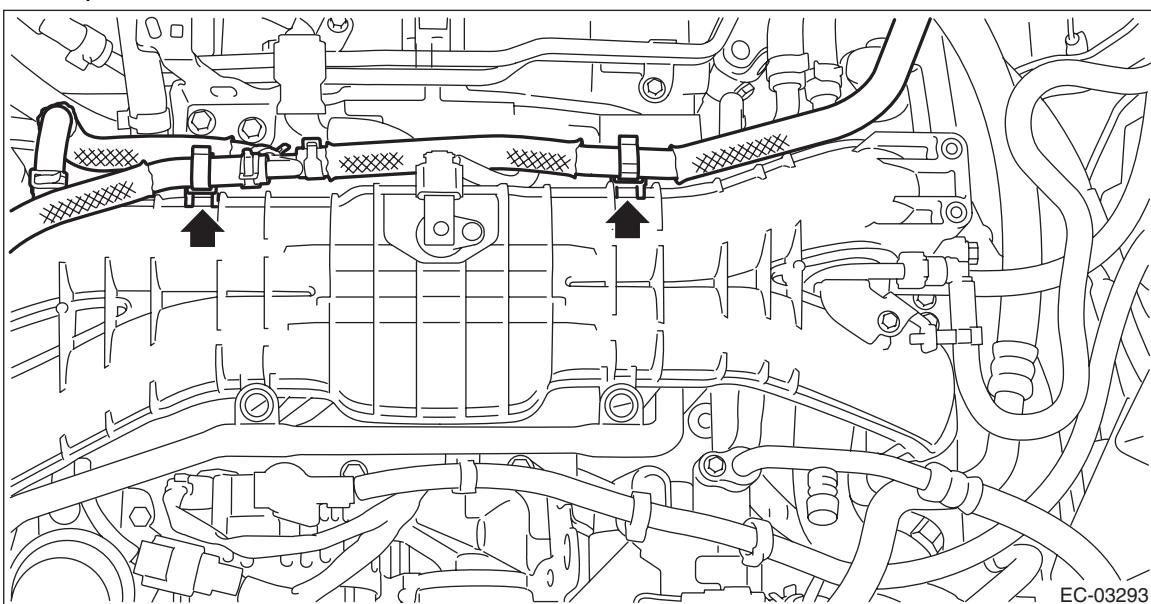
EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)

- 7) Connect the engine coolant outlet hose to the CVTF cooler (with warmer feature).



- 8) Lower the vehicle.

- 9) Install the clip which secures the brake booster vacuum hose to the intake manifold.



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

- 11) Connect the battery ground terminal.

- 12) Fill engine coolant. <Ref. to CO(H4DOTC)-14, FILLING OF ENGINE COOLANT, REPLACEMENT, Engine Coolant.>

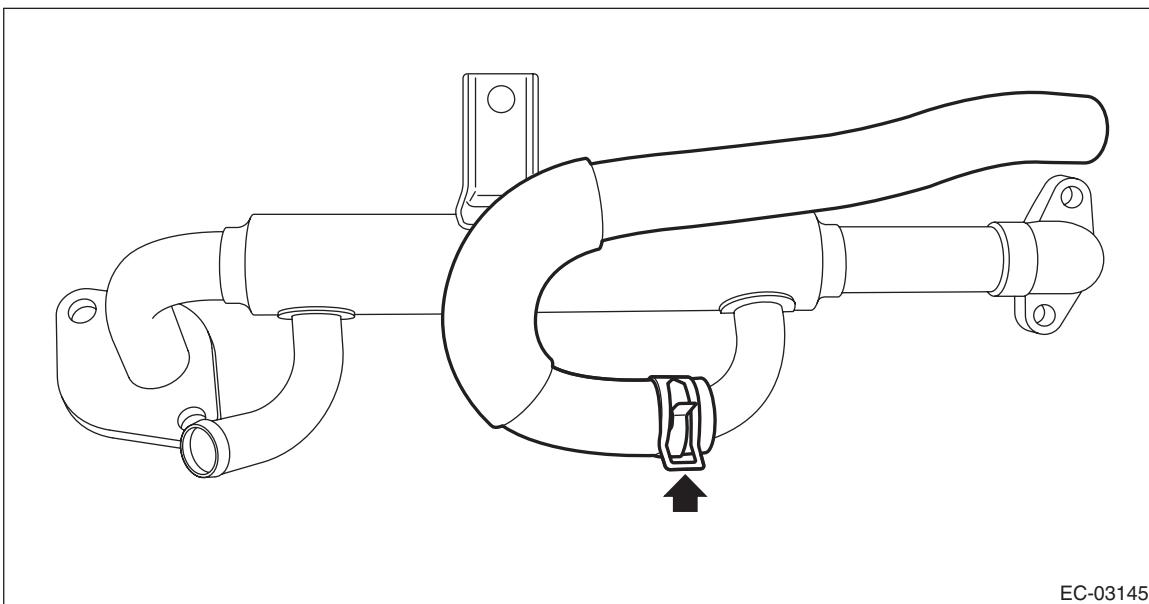
- 13) Install the collector cover.

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EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)

C: DISASSEMBLY

Remove the water hose from EGR cooler.



D: ASSEMBLY

Assemble in the reverse order of disassembly.

E: INSPECTION

- 1) Check that the EGR cooler has no deformation, cracks or other damages.
- 2) Check that the water hose has no cracks, damage or loose part.