

General Description

EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)

1. General Description

A: CAUTION

- Wear appropriate work clothing, including a cap, protective goggles and protective shoes when performing any work.
- Remove contamination including dirt and corrosion before removal, installation or disassembly.
- Keep the disassembled parts in order and protect them from dust and dirt.
- Before removal, installation or disassembly, be sure to clarify the failure. Avoid unnecessary removal, installation, disassembly and replacement.
- Vehicle components are extremely hot after driving. Be wary of receiving burns from heated parts.
- Be sure to tighten fasteners including bolts and nuts to the specified torque.
- Place shop jacks or rigid racks at the specified points.
- Before disconnecting connectors of sensors or units, be sure to disconnect the ground cable from battery.

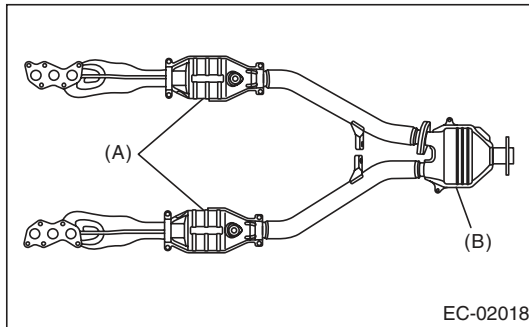
Front Catalytic Converter

EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)

2. Front Catalytic Converter

A: REMOVAL

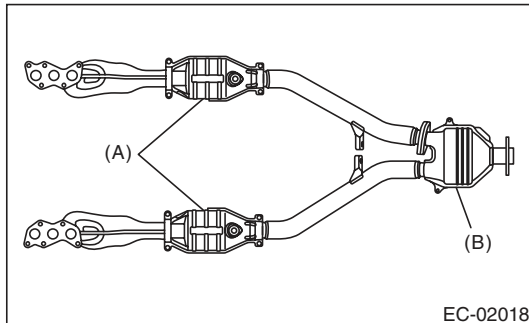
The front and rear catalytic converters are integrated into the front exhaust pipe; therefore, refer to "Front Exhaust Pipe" for the removal procedure. <Ref. to EX(H6DO)-4, REMOVAL, Front Exhaust Pipe.>



- (A) Front catalytic converter
- (B) Rear catalytic converter

B: INSTALLATION

The front and rear catalytic converters are integrated into front exhaust pipe as one unit; therefore, refer to "Front Exhaust Pipe" for installation procedure. <Ref. to EX(H6DO)-5, INSTALLATION, Front Exhaust Pipe.>



- (A) Front catalytic converter
- (B) Rear catalytic converter

C: INSPECTION

- 1) Check the connections and welds for exhaust leaks.
- 2) Check for hole or rust.

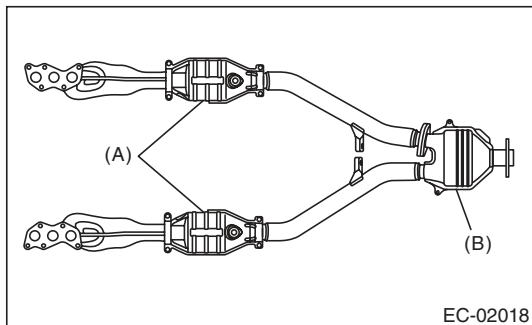
Rear Catalytic Converter

EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)

3. Rear Catalytic Converter

A: REMOVAL

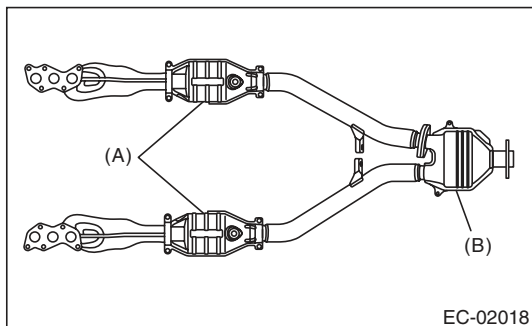
The front and rear catalytic converters are integrated into the front exhaust pipe; therefore, refer to “Front Exhaust Pipe” for the removal procedure. <Ref. to EX(H6DO)-4, REMOVAL, Front Exhaust Pipe.>



- (A) Front catalytic converter
- (B) Rear catalytic converter

B: INSTALLATION

The front and rear catalytic converters are integrated into front exhaust pipe as one unit; therefore, refer to “Front Exhaust Pipe” for installation procedure. <Ref. to EX(H6DO)-5, INSTALLATION, Front Exhaust Pipe.>



- (A) Front catalytic converter
- (B) Rear catalytic converter

C: INSPECTION

- 1) Check the connections and welds for exhaust leaks.
- 2) Check for hole or rust.

EGR Valve

EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)

4. EGR Valve

A: REMOVAL

For removal procedures, refer to "FU" section.
<Ref. to FU(H6DO)-27, REMOVAL, EGR Valve.>

B: INSTALLATION

For installation procedures, refer to "FU" section.
<Ref. to FU(H6DO)-27, INSTALLATION, EGR Valve.>

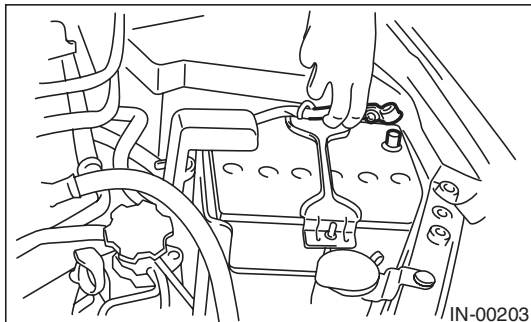
Canister

EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)

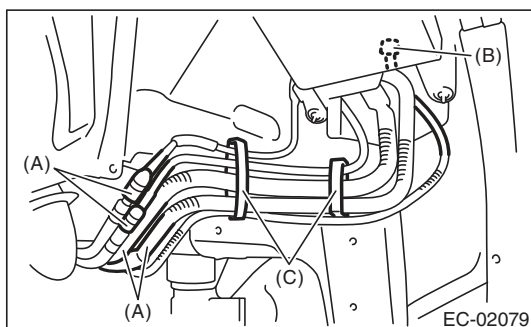
5. Canister

A: REMOVAL

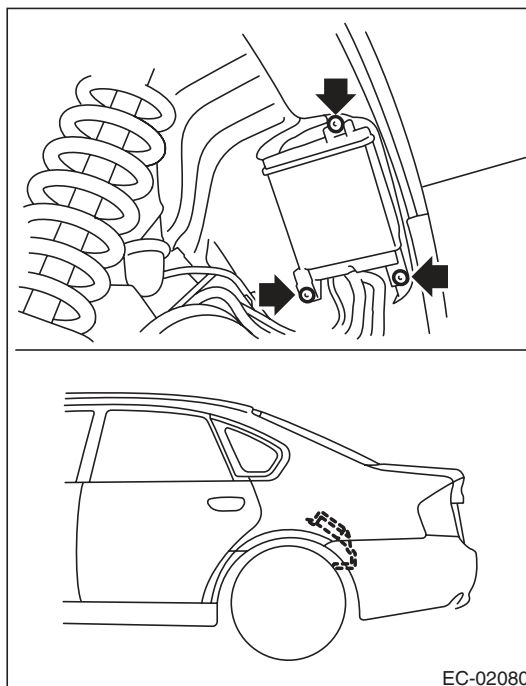
- 1) Set the vehicle on a lift.
- 2) Disconnect the ground cable from battery.



- 3) Lift up the vehicle.
- 4) Remove the rear wheel LH.
- 5) Remove the rear mud guard LH. <Ref. to EI-29, REAR MUD GUARD, REMOVAL, Mud Guard.>
- 6) Disconnect quick connector (A).
- 7) Disconnect the drain valve connector (B).
- 8) Remove clip (C).



- 9) Remove the canister from body.



Canister

EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)

B: INSTALLATION

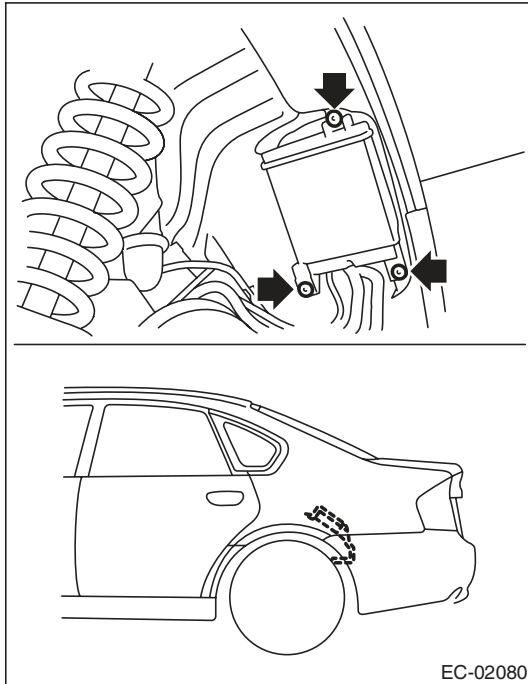
Install in the reverse order of removal.

NOTE:

Check that there is no damage or dust on the quick connector. If necessary, clean the seal surface of the pipe.

Tightening torque:

8 N·m (0.8 kgf-m, 5.9 ft-lb)



C: INSPECTION

Make sure the canister and canister hoses are not cracked or loose.

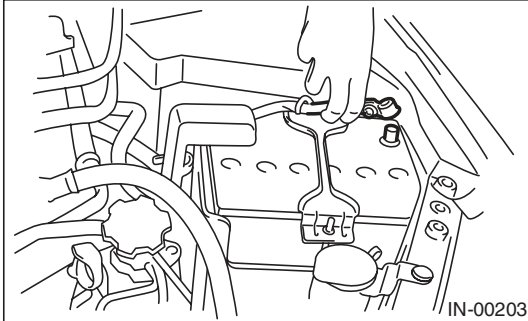
Purge Control Solenoid Valve

EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)

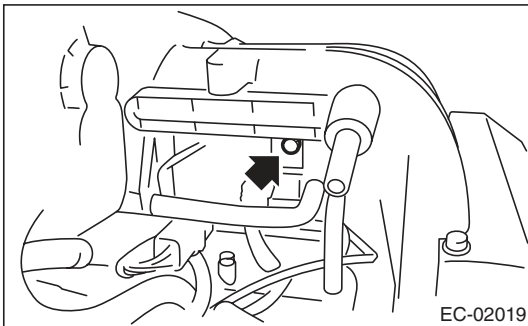
6. Purge Control Solenoid Valve

A: REMOVAL

- 1) Remove the collector cover.
- 2) Disconnect the ground cable from battery.



- 3) Remove the air intake chamber. <Ref. to IN(H6DO)-7, REMOVAL, Air Intake Chamber.>
- 4) Disconnect the connector and hoses of purge control solenoid valve, and then remove the purge control solenoid valve.

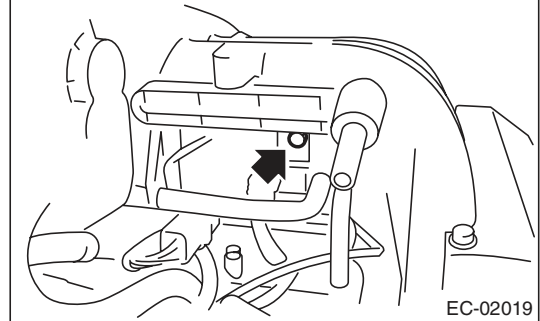


B: INSTALLATION

Install in the reverse order of removal.

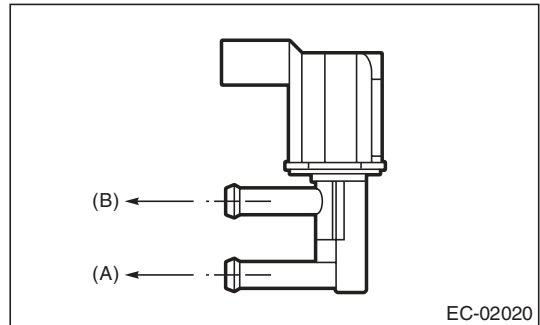
Tightening torque:

19 N·m (1.9 kgf-m, 14.0 ft-lb)



NOTE:

Connect the evaporation hose as shown in the figure.



- (A) To fuel pipe (evaporation line)
(B) To intake manifold

C: INSPECTION

Make sure the hoses are not cracked or loose.

Fuel Level Sensor

EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)

7. Fuel Level Sensor

A: REMOVAL

For removal procedure, refer to “FU(H6DO)” section. <Ref. to FU(H6DO)-57, REMOVAL, Fuel Level Sensor.>

B: INSTALLATION

For installation procedure, refer to “FU(H6DO)” section. <Ref. to FU(H6DO)-57, INSTALLATION, Fuel Level Sensor.>

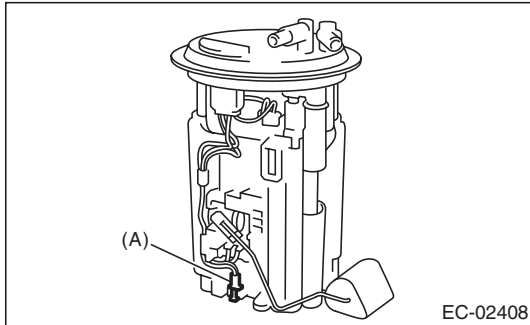
Fuel Temperature Sensor

EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)

8. Fuel Temperature Sensor

A: REMOVAL

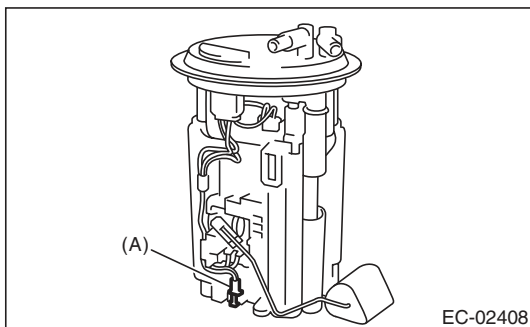
The fuel temperature sensor is integrated into fuel level sensor as one unit; therefore, refer to “Fuel Level Sensor” for removal procedure. <Ref. to FU(H6DO)-57, REMOVAL, Fuel Level Sensor.>



(A) Fuel temperature sensor

B: INSTALLATION

The fuel temperature sensor and fuel level sensor are integrated into one unit; therefore, refer to “Fuel Level Sensor” for installation procedure. <Ref. to FU(H6DO)-57, INSTALLATION, Fuel Level Sensor.>



(A) Fuel temperature sensor

Fuel Sub Level Sensor

EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)

9. Fuel Sub Level Sensor

A: REMOVAL

For removal procedure, refer to “FU(H6DO)” section. <Ref. to FU(H6DO)-58, REMOVAL, Fuel Sub Level Sensor.>

B: INSTALLATION

For installation procedure, refer to “FU(H6DO)” section. <Ref. to FU(H6DO)-59, INSTALLATION, Fuel Sub Level Sensor.>

Fuel Tank Pressure Sensor

EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)

10. Fuel Tank Pressure Sensor

C: INSPECTION

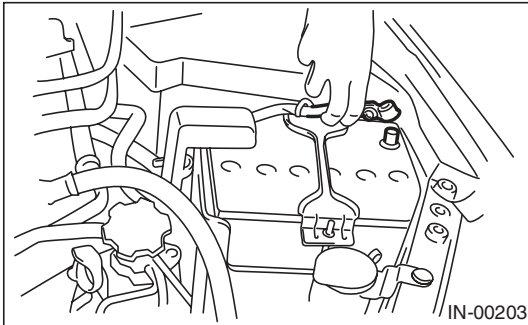
Make sure the hoses are not cracked or loose.

A: REMOVAL

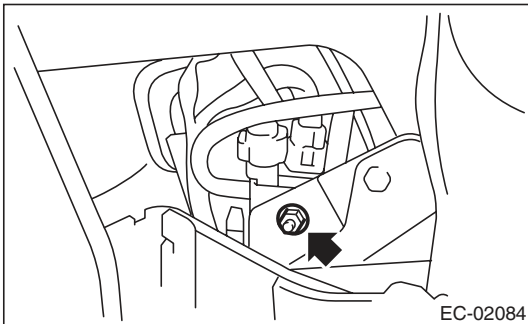
WARNING:

Place “NO OPEN FLAMES” signs near the working area.

- 1) Set the vehicle on a lift.
- 2) Disconnect the ground cable from battery.



- 3) Open the fuel filler lid and remove the fuel filler cap.
- 4) Lift up the vehicle.
- 5) Disconnect the connector from the fuel tank pressure sensor.
- 6) Disconnect the pressure hose from the fuel tank pressure sensor.
- 7) Remove the fuel tank pressure sensor along with the bracket.

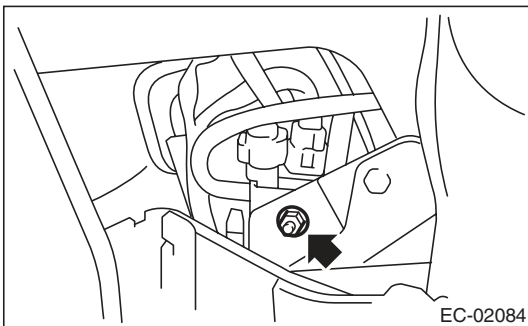


B: INSTALLATION

Install in the reverse order of removal.

Tightening torque:

7.4 N·m (0.8 kgf-m, 5.5 ft-lb)



Pressure Control Solenoid Valve

EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)

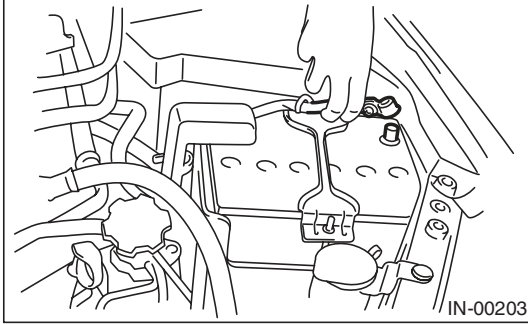
11. Pressure Control Solenoid Valve

C: INSPECTION

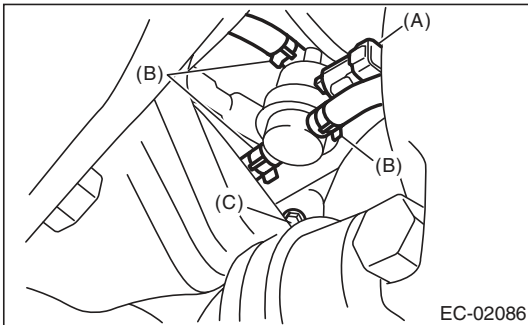
Make sure the hoses are not cracked or loose.

A: REMOVAL

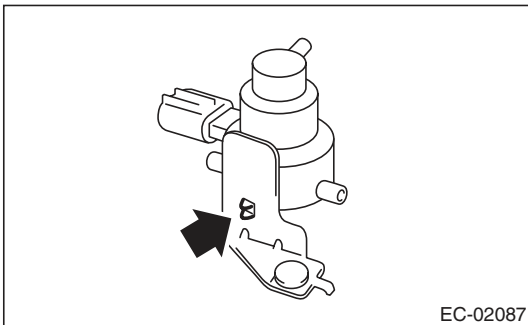
- 1) Set the vehicle on a lift.
- 2) Disconnect the ground cable from battery.



- 3) Lift up the vehicle.
- 4) Disconnect connector (A) from the pressure control solenoid valve.
- 5) Disconnect the evaporation hose (B) from the pressure control solenoid valve.
- 6) Remove the bolts (C) which secure the bracket to the fuel tank.



- 7) Remove the pressure control solenoid valve and bracket as a unit.
- 8) Remove the pressure control solenoid valve from the bracket.



B: INSTALLATION

Install in the reverse order of removal.

Tightening torque:

7.35 N·m (0.7 kgf-m, 5.4 ft-lb)

Drain Filter

EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)

12.Drain Filter

A: SPECIFICATION

Canister is a non-disassembled part, so do not remove the drain filter from canister. Refer to “Canister” for removal and installation procedures. <Ref. to EC(H6DO)-6, REMOVAL, Canister.> <Ref. to EC(H6DO)-7, INSTALLATION, Canister.>

Shut Valve

EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)

13. Shut Valve

A: REMOVAL

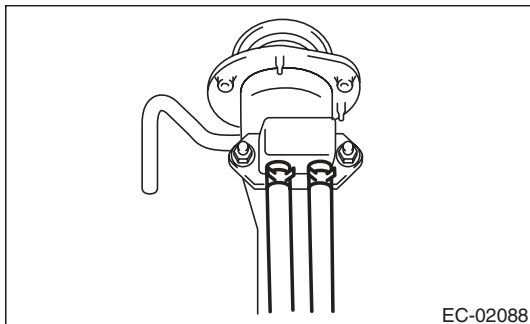
WARNING:

Place “NO OPEN FLAMES” signs near the working area.

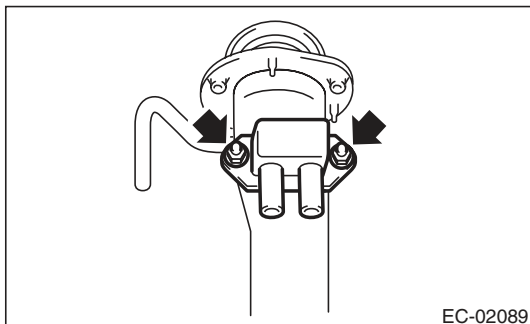
CAUTION:

Be careful not to spill fuel.

- 1) Remove the fuel filler pipe. <Ref. to FU(H6DO)-52, REMOVAL, Fuel Filler Pipe.>
- 2) Disconnect the evaporation hose from the shut valve.



- 3) Remove the shut valve from the fuel filler pipe.

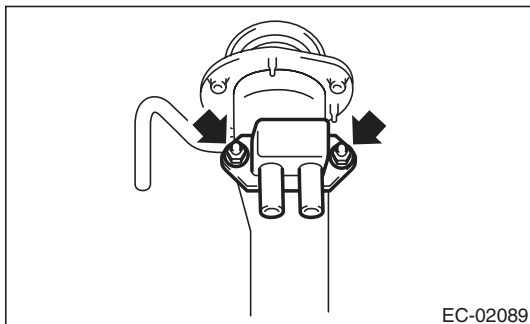


B: INSTALLATION

Install in the reverse order of removal.

Tightening torque:

4.5 N·m (0.5 kgf-m, 3.3 ft-lb)



C: INSPECTION

Make sure the hoses are not cracked or loose.

Drain Valve

EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)

14.Drain Valve

A: SPECIFICATION

Canister is a non-disassembled part, so do not remove the drain valve from canister. Refer to "Canister" for removal and installation procedures. <Ref. to EC(H6DO)-6, REMOVAL, Canister.> <Ref. to EC(H6DO)-7, INSTALLATION, Canister.>

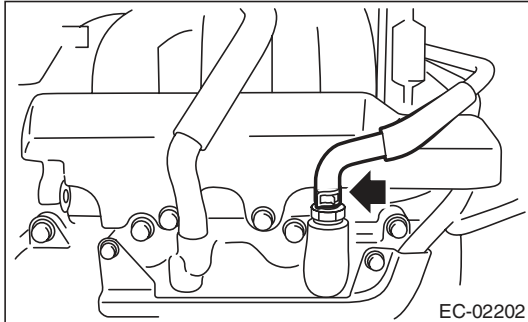
PCV Valve

EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)

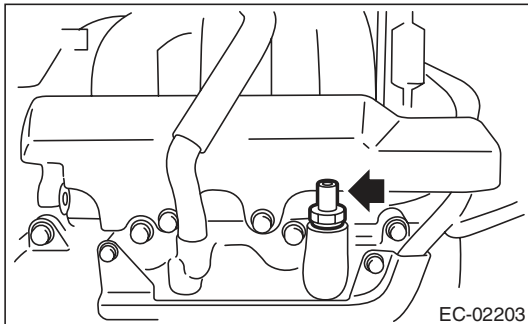
15.PCV Valve

A: REMOVAL

1) Disconnect the PCV hose.



2) Remove the PCV valve from rocker cover.



B: INSTALLATION

Install in the reverse order of removal.

NOTE:

Apply liquid gasket to the bolt threads of PCV valve.

Liquid gasket:

THREE BOND 1141 (Part No. 004403006) or equivalent

Tightening torque:

25 N·m (2.5 kgf-m, 18.4 ft-lb)

PCV Valve

EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)
