

EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)

EC(SOHCw/oOBD)

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GENERAL DESCRIPTION

Emission Control (Aux. Emission Control Devices)

1. General Description S160001

A: CAUTION S160001A03

- Wear working clothing, including a cap, protective goggles, and protective shoes during operation.
- Remove contamination including dirt and corrosion before removal, installation or disassembly.
- Keep the disassembled parts in order and protect them from dust or dirt.
- Before removal, installation or disassembly, be sure to clarify the failure. Avoid unnecessary removal, installation, disassembly, and replacement.
- Be careful not to burn your hands, because each part on the vehicle is hot after running.
- Be sure to tighten fasteners including bolts and nuts to the specified torque.
- Place shop jacks or safety stands at the specified points.
- Before disconnecting electrical connectors of sensors or units, be sure to disconnect negative terminal from battery.

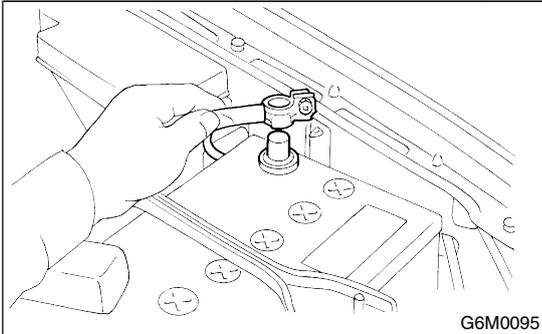
FRONT CATALYTIC CONVERTER

Emission Control (Aux. Emission Control Devices)

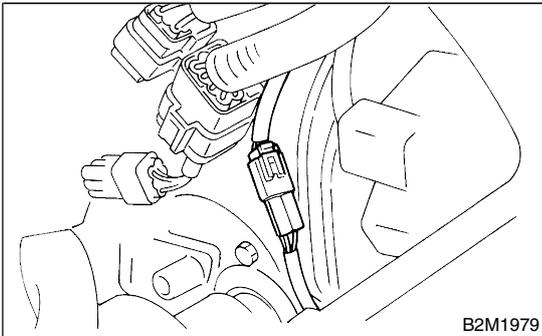
2. Front Catalytic Converter S160017

A: REMOVAL S160017A18

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

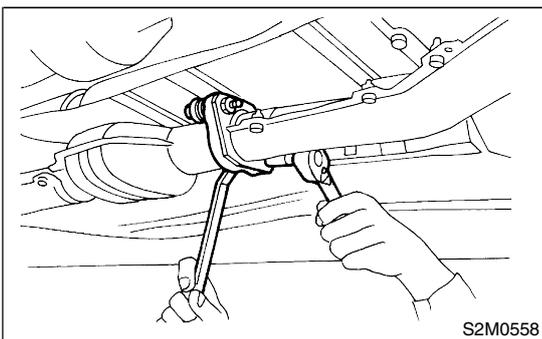


- 3) Disconnect front oxygen sensor connector.

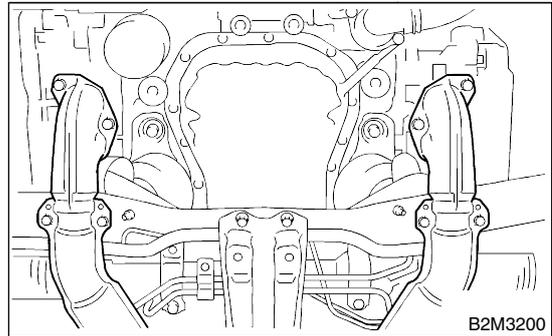


- 4) Lift-up the vehicle.
- 5) Remove under cover.
- 6) Separate center exhaust pipe from rear exhaust pipe.

CAUTION:
Be careful, exhaust pipe is hot.

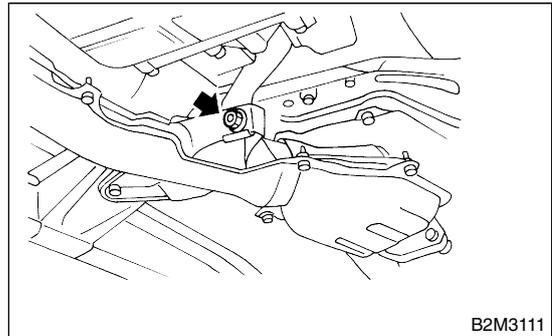


- 7) Remove bolts which hold front exhaust pipe onto cylinder heads.

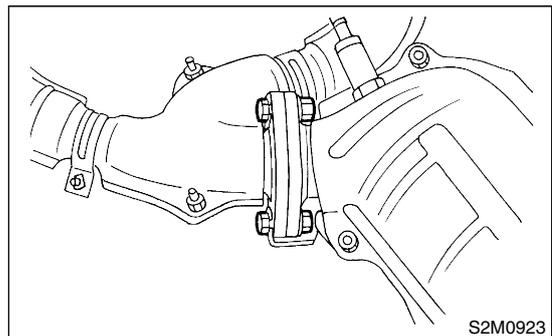


- 8) Remove front exhaust pipe and center exhaust pipe from hanger bracket.

CAUTION:
Be careful not to pull down front exhaust pipe and center exhaust pipe.



- 9) Separate front catalytic converter from front exhaust pipe.



FRONT CATALYTIC CONVERTER

Emission Control (Aux. Emission Control Devices)

B: INSTALLATION S160017A11

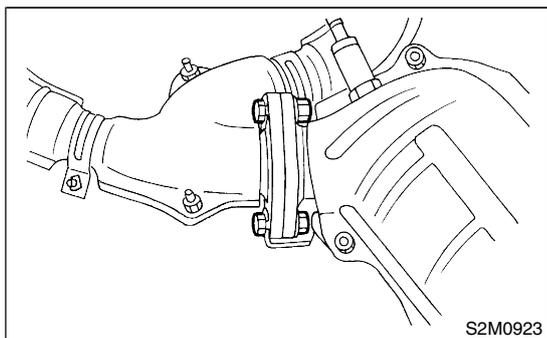
CAUTION:

Replace gaskets with new ones.

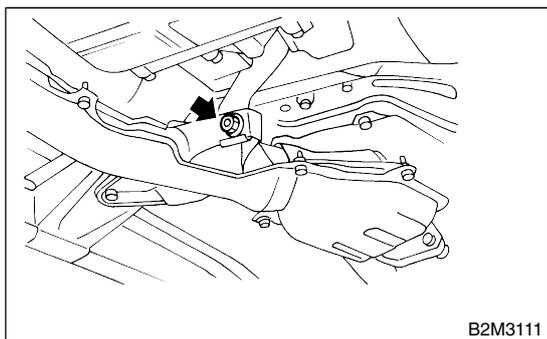
1) Install front catalytic converter to front exhaust pipe.

Tightening torque:

30 N·m (3.1 kgf-m, 22.4 ft-lb)



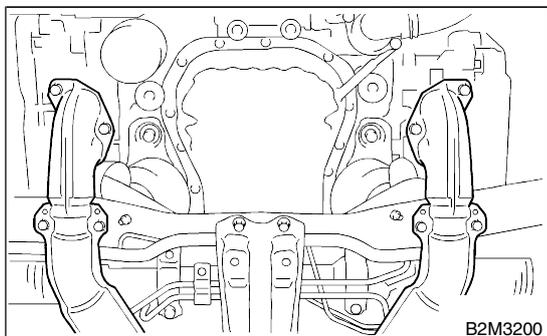
2) Install front exhaust pipe and center exhaust pipe. And temporarily tighten bolt which installs center exhaust pipe to hanger bracket.



3) Tighten bolts which hold front exhaust pipe onto cylinder heads.

Tightening torque:

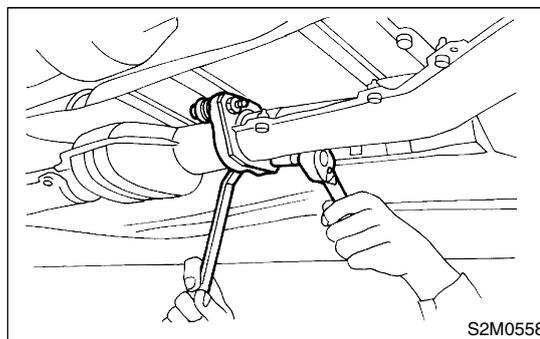
30 N·m (3.1 kgf-m, 22.4 ft-lb)



4) Install center exhaust pipe to rear exhaust pipe.

Tightening torque:

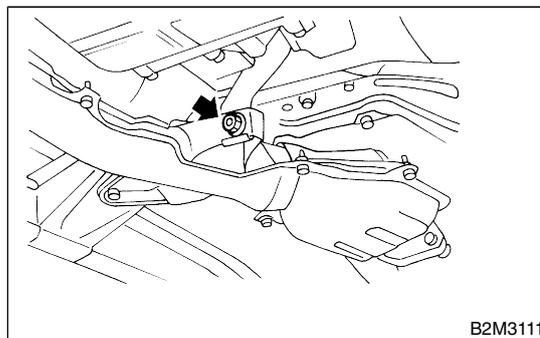
18 N·m (1.8 kgf-m, 13.0 ft-lb)



5) Tighten bolt which holds center exhaust pipe to hanger bracket.

Tightening torque:

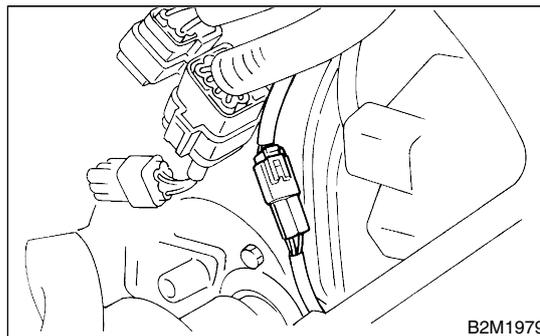
35 N·m (3.6 kgf-m, 26.0 ft-lb)



6) Install under cover.

7) Lower the vehicle.

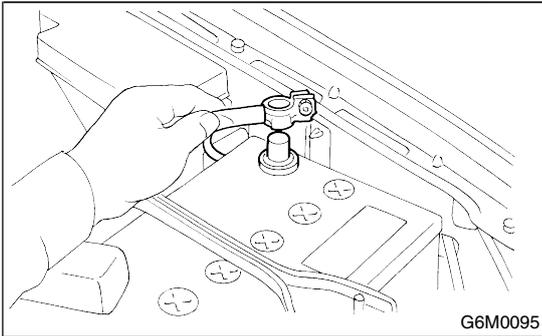
8) Connect front oxygen sensor connector.



FRONT CATALYTIC CONVERTER

Emission Control (Aux. Emission Control Devices)

- 9) Connect battery ground cable.



C: INSPECTION S160017A10

- 1) Make sure there are no exhaust leaks from connections and welds.
- 2) Make sure there are no holes or rusting.

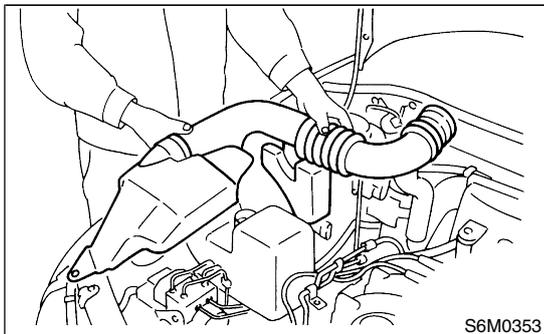
CANISTER

Emission Control (Aux. Emission Control Devices)

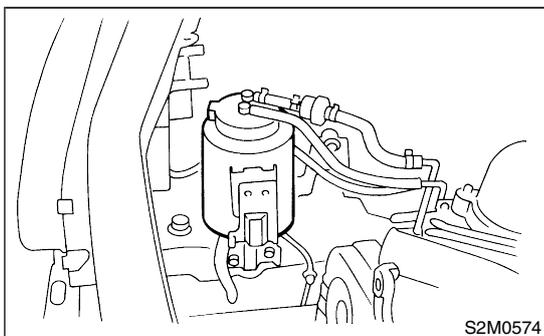
3. Canister S160037

A: REMOVAL S160037A18

- 1) Remove air intake duct as a unit.



- 2) Disconnect canister hoses from evaporation pipes.
- 3) Remove canister with bracket.



B: INSTALLATION S160037A11

Install in the reverse order of removal.

CAUTION:

Insert air vent hose of canister into the hole on body.

C: INSPECTION S160037A10

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

PURGE CONTROL SOLENOID VALVE

Emission Control (Aux. Emission Control Devices)

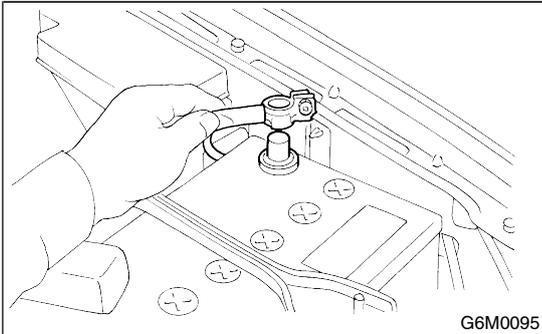
4. Purge Control Solenoid Valve

S160035

A: REMOVAL

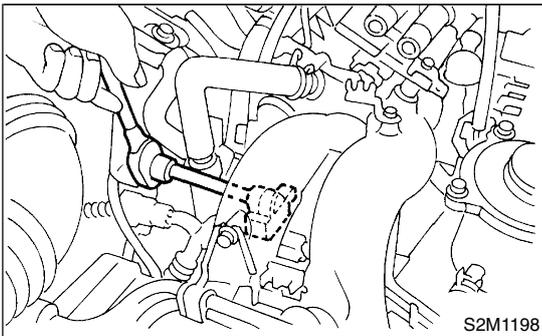
S160035A18

- 1) Disconnect battery ground cable.



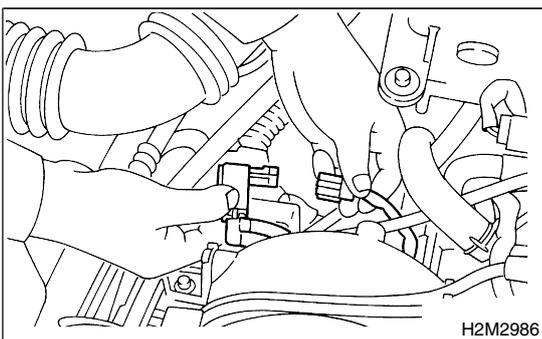
G6M0095

- 2) Remove bolt which installs purge control solenoid valve onto intake manifold.



S2M1198

- 3) Take out purge control solenoid valve through the bottom of the intake manifold.
- 4) Disconnect connector and hoses from purge control solenoid valve.



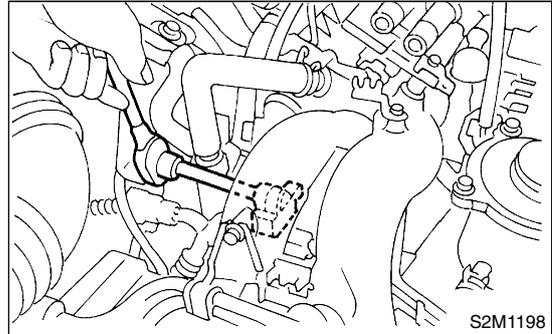
H2M2986

B: INSTALLATION

S160035A11

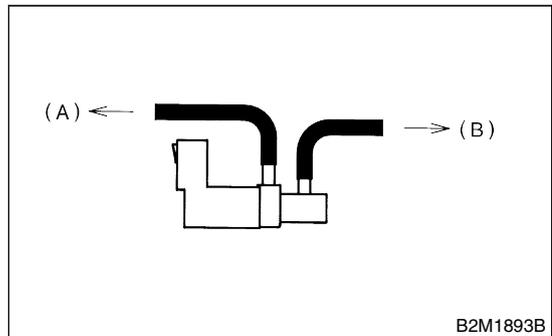
Install in the reverse order of removal.

Tightening torque:
16 N·m (1.6 kgf-m, 11.6 ft-lb)



S2M1198

CAUTION:
Carefully connect the evaporation hoses.



B2M1893B

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

C: INSPECTION

S160035A10

Make sure hoses are not cracked or loose.

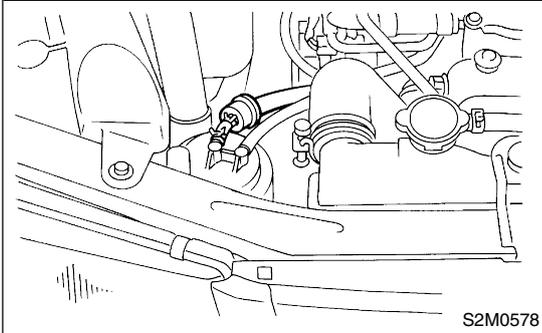
TWO-WAY VALVE

Emission Control (Aux. Emission Control Devices)

5. Two-way Valve S160707

A: REMOVAL S160707A18

Disconnect hoses from two-way valve, and remove it.



B: INSTALLATION S160707A11

Install in the reverse order of removal.

C: INSPECTION S160707A10

Make sure that hoses are not cracked or loose.