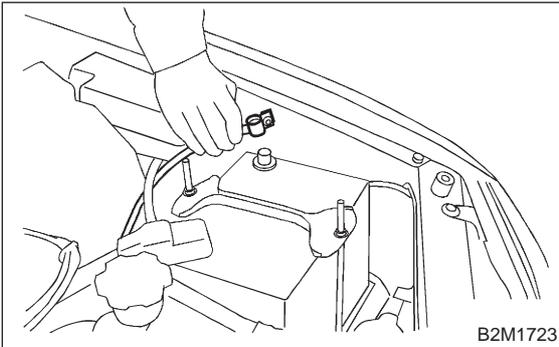


19. Knock Sensor

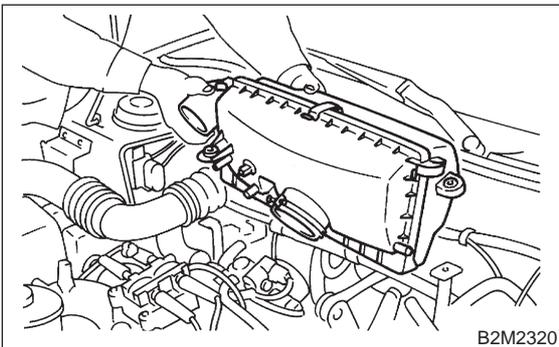
A: REMOVAL

1. 2200 cc MODEL

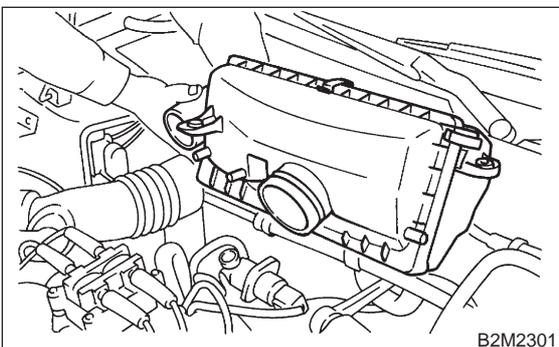
- 1) Disconnect battery ground cable from battery ground terminal.



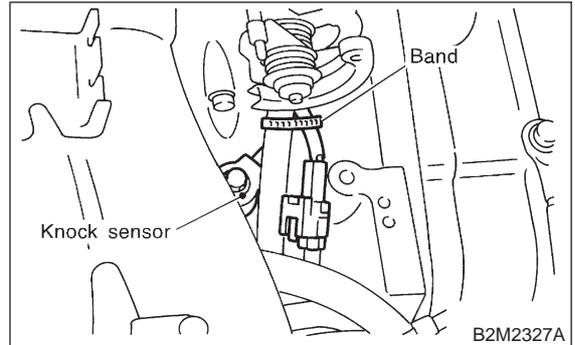
- 2) Remove air cleaner assembly.
(California spec. vehicles only)
<Ref. to 2-7 [W1A1].>



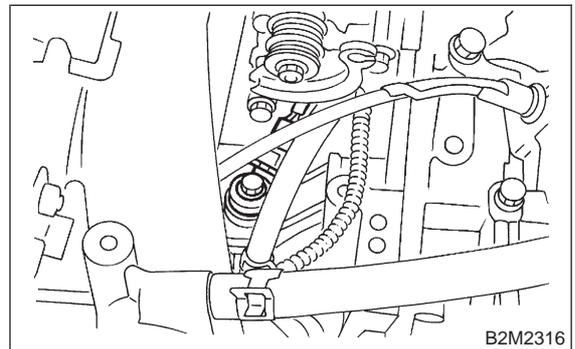
- 3) Remove air intake chamber.
(Except California spec. vehicles)
<Ref. to 2-7 [W18A0].>



- 4) Remove band which holds knock sensor harness, and disconnect connector from knock sensor.

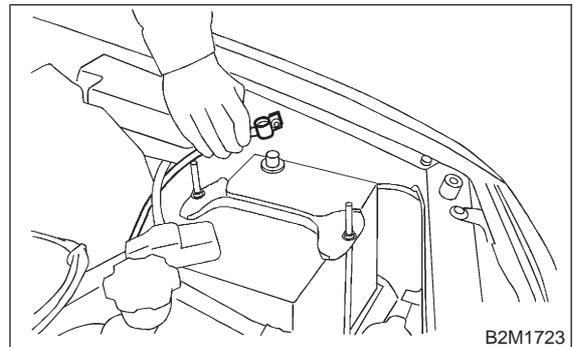


- 5) Remove knock sensor from cylinder block.

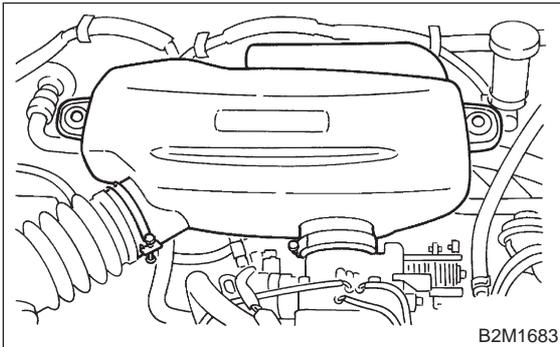


2. 2500 cc MODEL

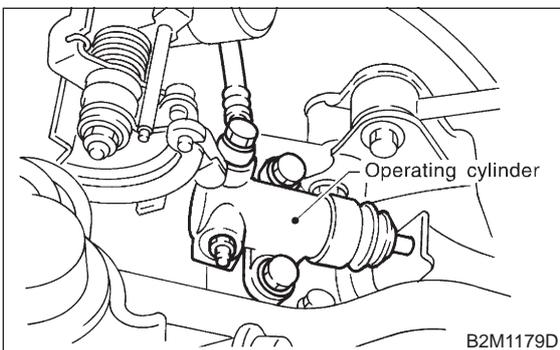
- 1) Disconnect battery ground cable from battery ground terminal.



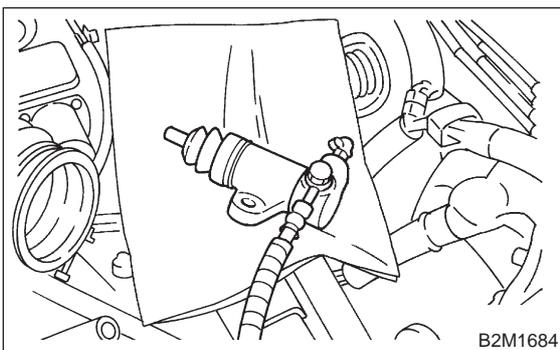
- 2) Remove air intake chamber.
<Ref. to 2-7 [W18A0].>



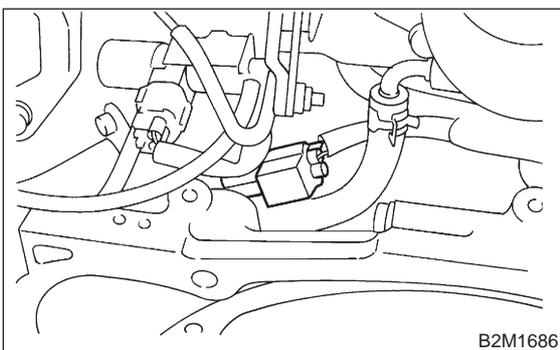
- 3) Remove operating cylinder. (MT vehicles only)
<Ref. to 2-10 [W5A0].>



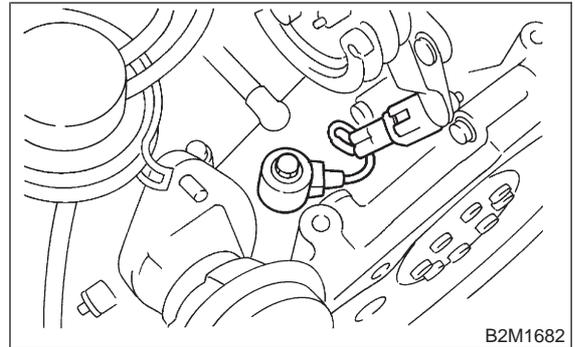
NOTE:
Place the operating cylinder where it will not interfere the work in process.



- 4) Disconnect knock sensor connector.



- 5) Remove knock sensor from cylinder block.



B: INSTALLATION

1. 2200 cc MODEL

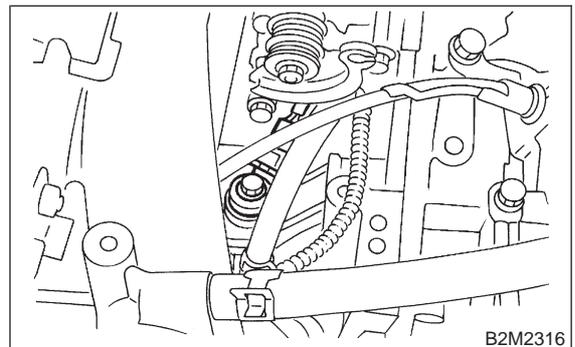
- 1) Install knock sensor to cylinder block.

NOTE:

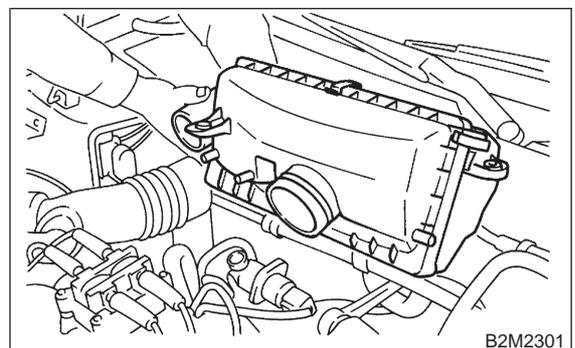
The knock sensor cord which is extracted from the sensor must be positioned at a 45° angle against the rear side of the engine.

Tightening torque:

23.5±2.9 N·m (2.4±0.3 kg·m, 17.3±2.1 ft·lb)



- 2) Connect knock sensor connector and hold knock sensor harness with band.
3) Install air intake chamber. (Except California spec. vehicles) <Ref. to 2-7 [W18A0].>

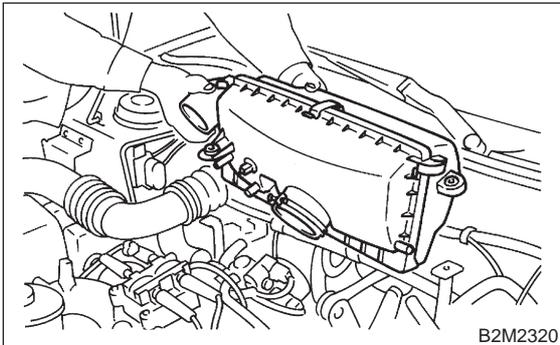


2-7 [W19B2]

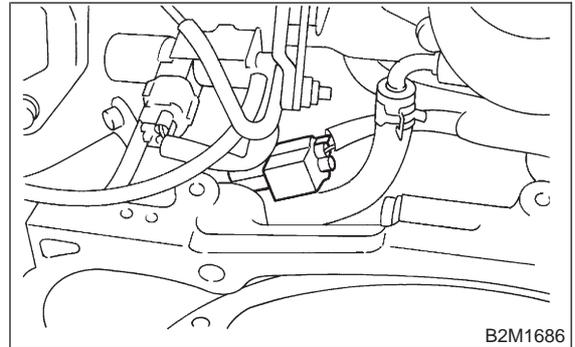
19. Knock Sensor

SERVICE PROCEDURE

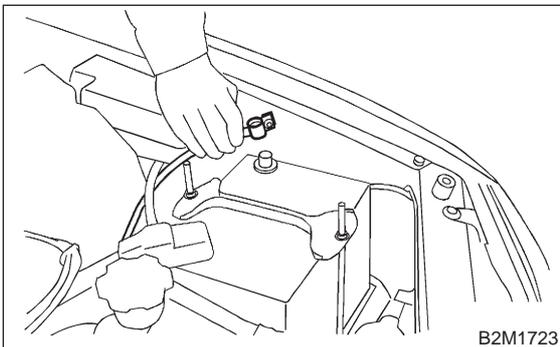
4) Install air cleaner assembly. (California spec. vehicles only) <Ref. to 2-7 [W1A1].>



2) Connect knock sensor connector.

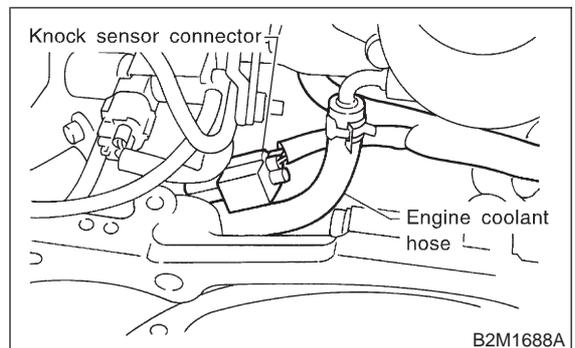


5) Connect battery ground cable to battery ground terminal.



NOTE:

The knock sensor connector must be connected behind the engine coolant hose within the engine components.



2. 2500 cc MODEL

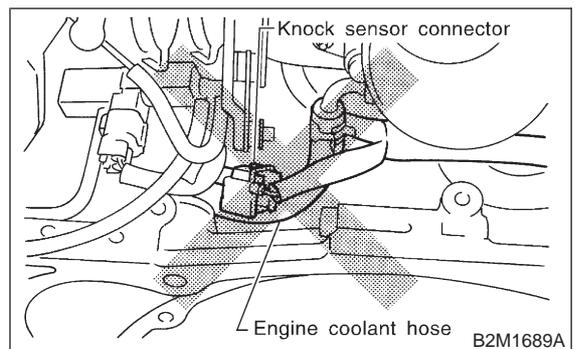
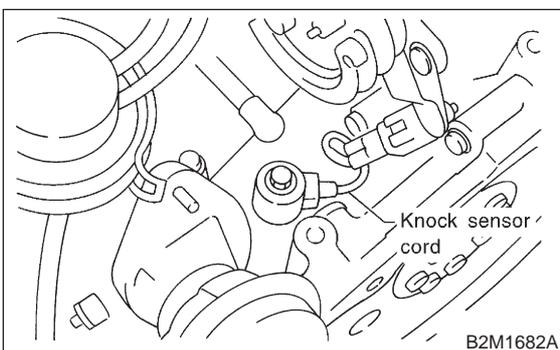
1) Install knock sensor to cylinder block.

NOTE:

The knock sensor cord which is extracted from the sensor must be positioned at a 45° angle against the rear side of the engine.

Tightening torque:

23.5±2.9 N·m (2.4±0.3 kg·m, 17.3±2.1 ft·lb)



SERVICE PROCEDURE

[W20A0] 2-7

20. Intake Manifold Pressure Sensor (2200 cc California Spec. Vehicles only)

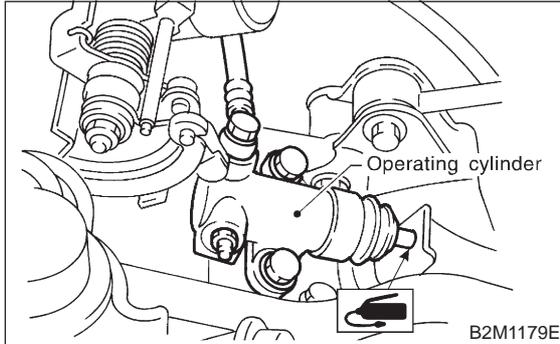
3) Install operating cylinder. (MT vehicles only)

NOTE:

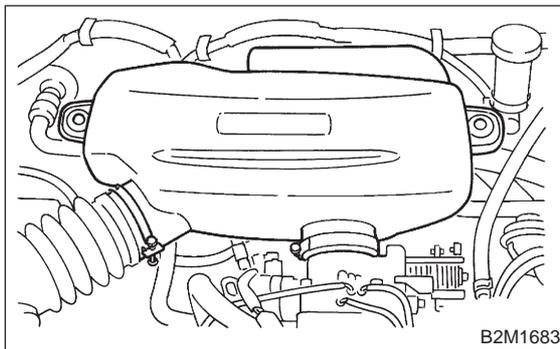
Apply grease to contact point of release lever and operating cylinder rod. <Ref. to 2-10 [W5A0].>

Tightening torque:

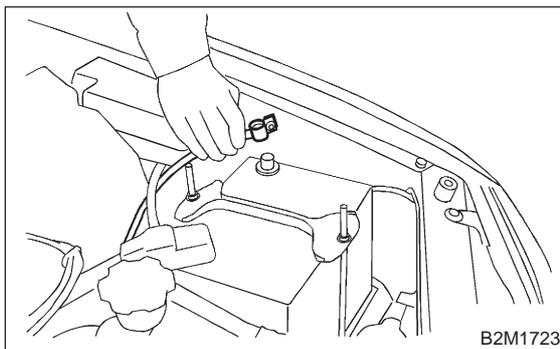
37±3 N·m (3.8±0.3 kg·m, 27.3±2.2 ft·lb)



4) Install air intake chamber. <Ref. to 2-7 [W18A0].>



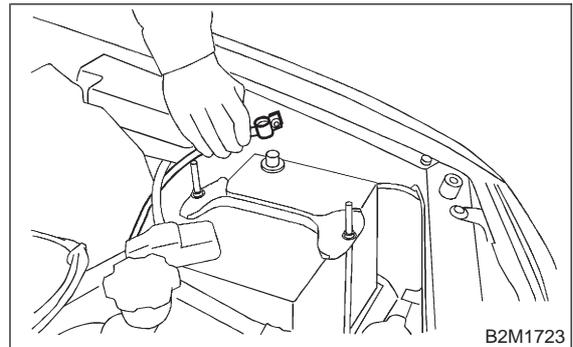
5) Connect battery ground cable to battery ground terminal.



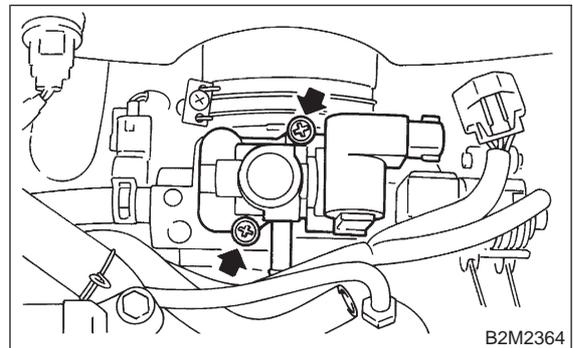
20. Intake Manifold Pressure Sensor (2200 cc California Spec. Vehicles only)

A: REMOVAL AND INSTALLATION

1) Disconnect battery ground cable.



2) Remove idle air control solenoid valve. <Ref. to 2-7 [W12A1].>



3) Disconnect connector from intake manifold pressure sensor.

