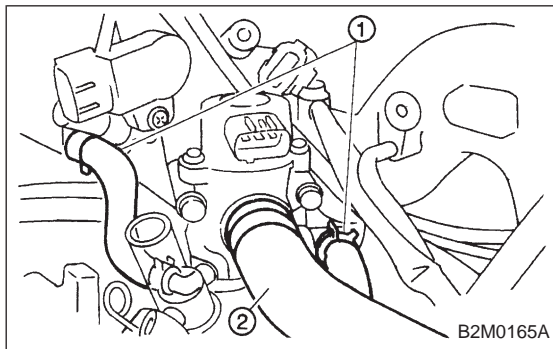


12. Idle Air Control Solenoid Valve

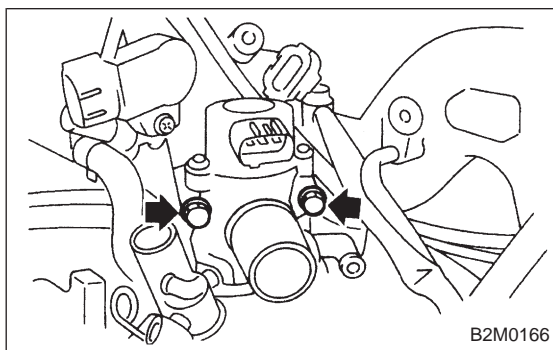
A: REMOVAL AND INSTALLATION

1) Disconnect connector from idle air control solenoid valve.



2) Disconnect engine coolant hoses ① from idle air control solenoid valve.

3) Disconnect air by-pass hose ② from idle air control solenoid valve.



4) Remove idle air control solenoid valve from throttle body.

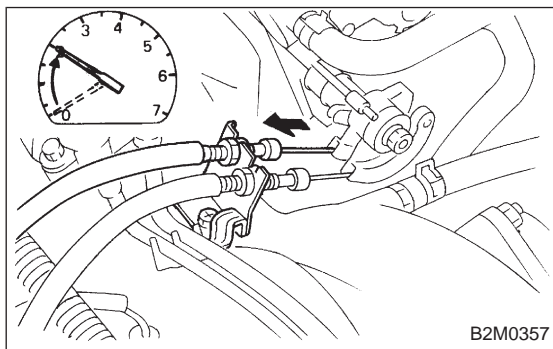
5) Installation is in the reverse order of removal.

CAUTION:

Replace gasket with a new one.

Tightening torque:

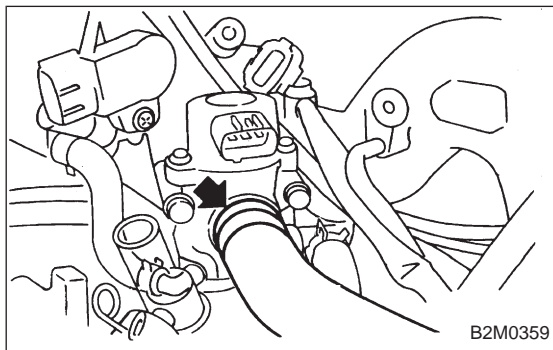
$6.4 \pm 0.5 \text{ N}\cdot\text{m}$ ($0.65 \pm 0.05 \text{ kg}\cdot\text{m}$, $4.7 \pm 0.4 \text{ ft}\cdot\text{lb}$)



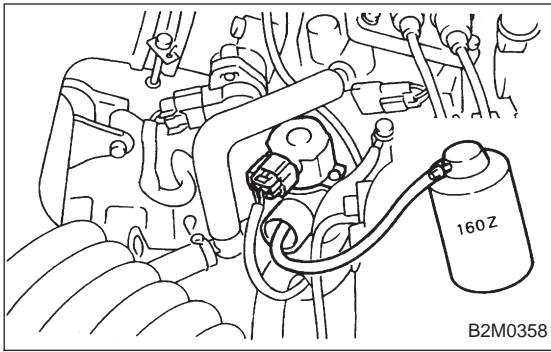
B: CLEANING

1) Start and warm-up the engine until radiator fan operates.

2) Hold throttle valve so that engine speed is at 2,000 rpm.



3) Disconnect by-pass hose from idle air control solenoid valve.



4) Slowly pour one can (16 oz) of cleaner into by-pass air hole.

Cleaner:

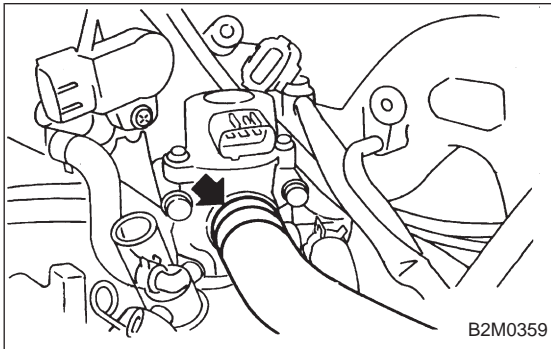
- **Part No. 1050002 GM Top Engine Cleaner**
- **Part No. X66-A AC Delco Carburetor Tune-up Conditioner**

5) Leave the engine running for five minutes.

NOTE:

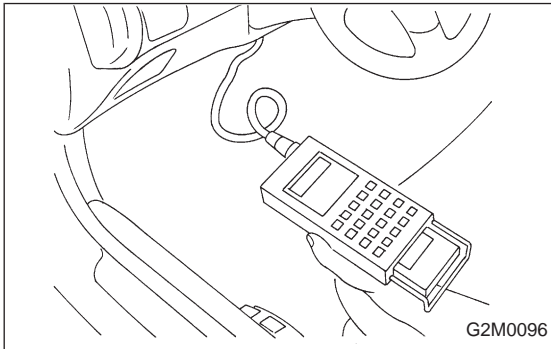
White smoke comes out of the muffler until the cleaner is used up.

6) Stop the engine.



7) Release the throttle valve.

8) Connect by-pass hose to idle air control solenoid valve.



9) Check duty ratio of idle air control solenoid valve with Subaru Select Monitor.

- (1) Connect Subaru Select Monitor to the data link connector.
- (2) Start the engine and turn Subaru Select Monitor switch to ON.
- (3) Select mode "F12".
- (4) Make sure duty ratio on radiator fan and electric load is OFF.

Specified data: 25 — 40%

13. Pressure Sources Switching Solenoid Valve (AT model)

A: REMOVAL AND INSTALLATION

- 1) Disconnect connector from pressure sources switching solenoid valve.
- 2) Disconnect hoses from pressure sources switching solenoid valve.

