

CAUTION:

Never rotate idle adjusting screw. If idle speed is out of specifications, refer to General On-board Diagnosis Table under "2-7 On-Board Diagnostics II System".

<Ref. to 2-7 [T6A0].>

4. Engine Compression

A: MEASUREMENT

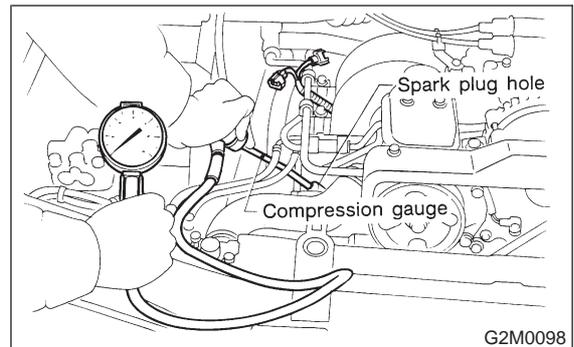
1. 2200 cc MODEL

- 1) After warming-up the engine, turn ignition switch to OFF.
- 2) Make sure that the battery is fully charged.
- 3) Remove all the spark plugs.
- 4) Disconnect connectors from fuel injectors.
- 5) Fully open throttle valve.
- 6) Check the starter motor for satisfactory performance and operation.
- 7) Hold the compression gauge tight against the spark plug hole.

CAUTION:

When using a screw-in type compression gauge, the screw (put into cylinder head spark plug hole) should be less than 18 mm (0.71 in) long.

- 8) Crank the engine by means of the starter motor, and read the maximum value on the gauge when the pointer is steady.



- 9) Perform at least two measurements per cylinder, and make sure that the values are correct.

Compression (200 — 300 rpm and fully open throttle):

Standard;

**1,079 — 1,275 kPa (11.0 — 13.0 kg/cm²,
156 — 185 psi)**

Limit;

883 kPa (9.0 kg/cm², 128 psi)

Difference between cylinders;

196 kPa (2.0 kg/cm², 28 psi)

2. 2500 cc MODEL

CAUTION:

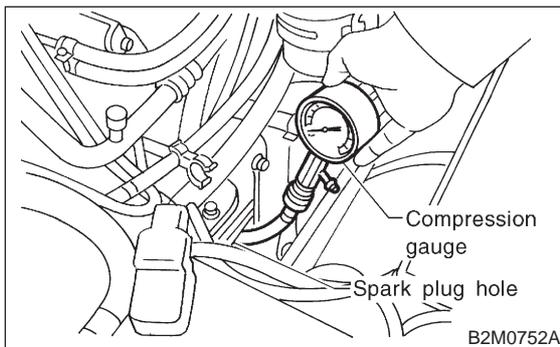
After warming-up, engine becomes very hot. Be careful not to burn yourself during measurement.

- 1) After warming-up the engine, turn ignition switch to OFF.
- 2) Make sure that the battery is fully charged.
- 3) Remove all the spark plugs. <Ref. to 6-1 [W3B0].>
- 4) Disconnect connectors from fuel injectors.
- 5) Fully open throttle valve.
- 6) Check the starter motor for satisfactory performance and operation.
- 7) Hold the compression gauge tight against the spark plug hole.

CAUTION:

When using a screw-in type compression gauge, the screw (put into cylinder head spark plug hole) should be less than 18 mm (0.71 in) long.

- 8) Crank the engine by means of the starter motor, and read the maximum value on the gauge when the pointer is steady.



- 9) Perform at least two measurements per cylinder, and make sure that the values are correct.

Compression (350 rpm and fully open throttle):

Standard;

1,216 kPa (12.4 kg/cm², 176 psi)

Limit;

941 kPa (9.6 kg/cm², 137 psi)

Difference between cylinders;

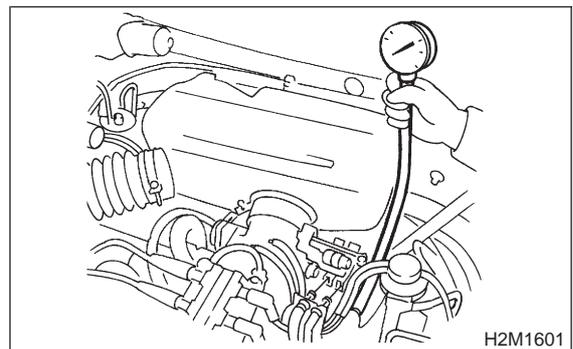
49 kPa (0.5 kg/cm², 7 psi), or less

5. Intake Manifold Vacuum

A: MEASUREMENT

- 1) Warm-up the engine.
- 2) Disconnect the brake vacuum hose and install the vacuum gauge to the hose fitting on the manifold.
- 3) Keep the engine at the idle speed and read the vacuum gauge indication.

By observing the gauge needle movement, the internal condition of the engine can be diagnosed as described below.



Vacuum pressure (at idling, A/C "OFF"):
Less than -60.0 kPa (-450 mmHg, -17.72 inHg)