

## COMPRESSION CHECK

HINT: If there is lack of power, excessive oil consumption or poor fuel economy, measure the compression pressure.

### 1. WARM UP AND STOP ENGINE

Allow the engine to warm up to normal operating temperature.

### 2. REMOVE AIR CLEANER HOSE

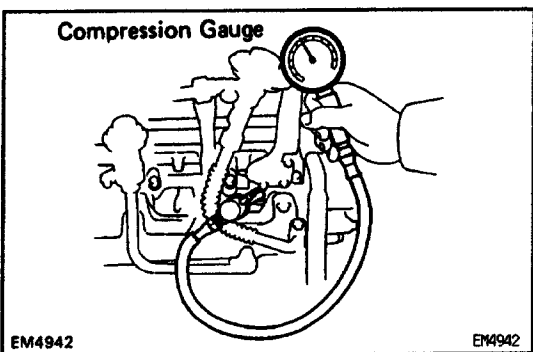
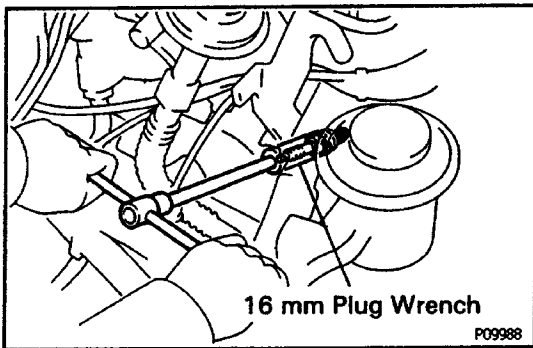
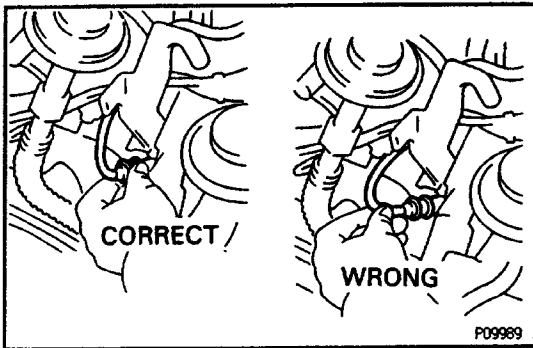
### 3. DISCONNECT COLD START INJECTOR CONNECTOR

### 4. DISCONNECT IGNITER CONNECTOR

### 5. DISCONNECT HIGH-TENSION CORDS FROM SPARK PLUGS

Disconnect the high – tension cords at the rubber boot. Do not pull on the cords.

**NOTICE:** Pulling on or bending the cords may damage the conductor inside.



### 6. REMOVE SPARK PLUGS

Using a 16 mm plug wrench, remove the 6 spark plugs.

### 7. CHECK CYLINDER COMPRESSION PRESSURE

(a) Insert a compression gauge into the spark plug hole.

(b) Fully open the throttle.

(c) While cranking the engine, measure the compression pressure.

HINT: Always use a fully charged battery to obtain engine speed of 250 rpm or more.

(d) Repeat steps

(a) through

(c) for each cylinder.

**NOTICE:** This measurement must be done in as short a time as possible.

**Compression pressure:**

1.177 kPa (12.0 kgf/cm<sup>2</sup>, 171 psi)

**Minimum pressure:**

981 kPa (10.0 kgf/cm<sup>2</sup>, 142 psi)

**Difference between each cylinder:**

98 kPa (1.0 kgf/cm<sup>2</sup>, 14 psi) or less

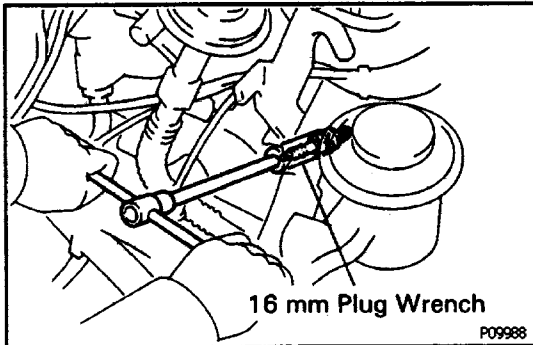
(e) If the cylinder compression in one or more cylinders is low, pour a small amount of engine oil into the cylinder through the spark plug hole and repeat steps (a) through (c) for cylinders with low compression.

- If adding oil helps the compression, chances are that the piston rings and/or cylinder bore are worn or damaged.
- If pressure stays low, a valve may be sticking or seating is improper, or there may be leakage past the gasket.

#### 8. REINSTALL SPARK PLUGS

Using a 16 mm plug wrench, install the 6 spark plugs.

**Torque: 18 N-m (180 kgf-cm, 13 ft-lbf)**



#### 9. RECONNECT HIGH-TENSION CORDS TO SPARK PLUGS

#### 10. CONNECT IGNITER CONNECTOR

#### 11. CONNECT COLD START INJECTOR CONNECTOR

#### 12. INSTALL AIR CLEANER HOSE