

COMPRESSION CHECK

HINT: If there is lack of power, excessive oil consumption or poor fuel economy, measure the compression pressure. ^{EG27H-01}

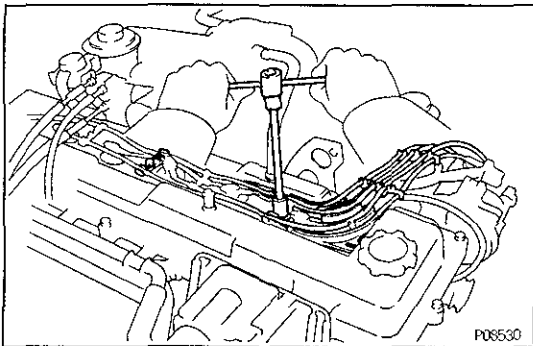
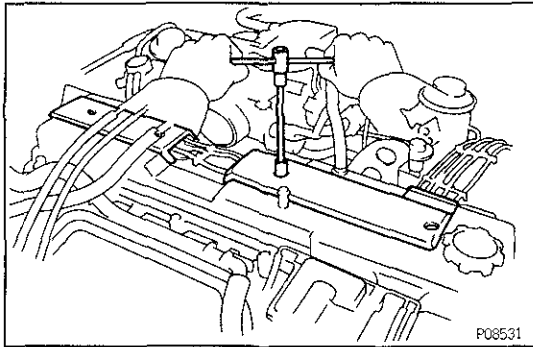
1. WARM UP AND STOP ENGINE

Allow the engine to warm up to normal operating temperature.

2. DISCONNECT DISTRIBUTOR CONNECTOR

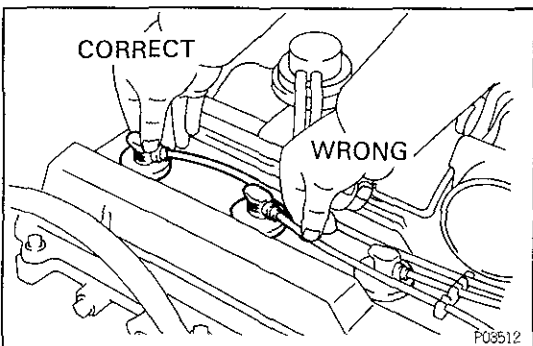
3. REMOVE NO.2 AND NO.3 CYLINDER HEAD COVERS

Remove the four bolts and head covers.



4. DISCONNECT HIGH—TENSION CORDS FROM SPARK PLUGS

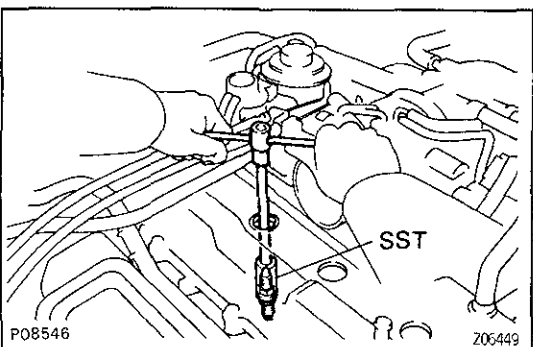
- (a) Remove the two mounting bolts of the No.1 and No.2 cord clamps.



- (b) Disconnect the high — tension cords at the rubber boot.

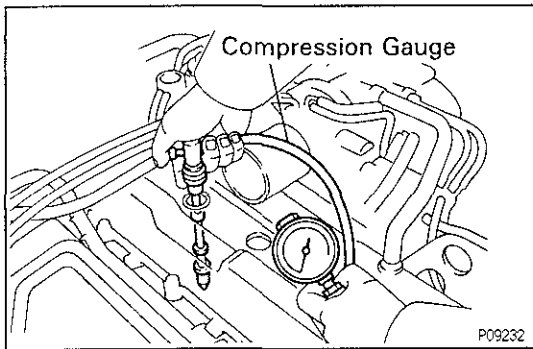
DO NOT pull on the cords.

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



5. REMOVE SPARK PLUGS

Using SST, remove the spark plug.
SST 09155—16100



6. 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:

1,176 kPa (12.0 kgf/cm², 171 psi) or more 1FZ—FE
 900 kPa (9.2 kgf/cm², 131 psi) or more 1FZ—F (Low octane)

1,030 kPa (10.5 kgf/cm², 149 psi) or more 1FZ—F (Others)

Minimum pressure:

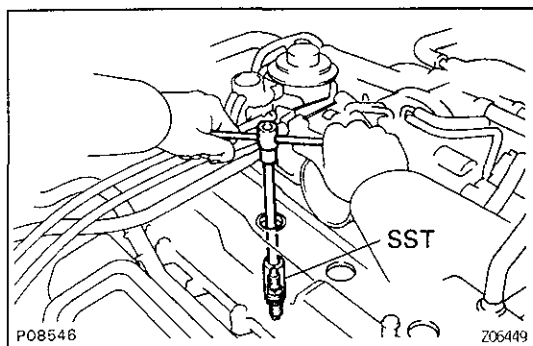
883 kPa (9.0 kgf/cm², 128 psi) 1FZ—FE

785 kPa (8.0 kgf/cm², 114 psi) 1FZ—F

Difference between each cylinder:

98 kPa (1.0 kgf/cm², 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.

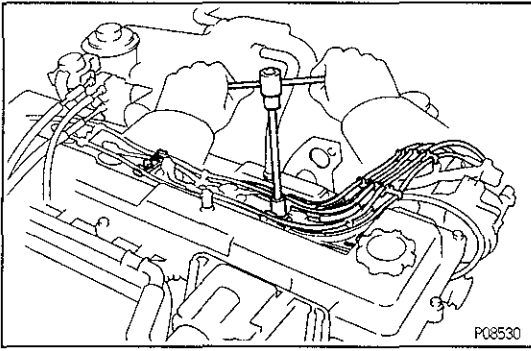


7. INSTALL SPARK PLUGS

Using SST, install the spark plug.

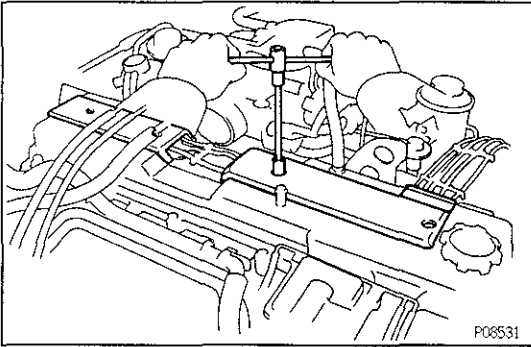
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Torque: 20 N·m (200 kgf·cm, 14 ft·lbf)

**8. RECONNECT HIGH—TENSION CORDS TO SPARK PLUGS**

- (a) Reconnect the high—tension cords to the spark plugs.
- (b) Install the No.1 and No.2 cord clamps with the two bolts.

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**9. INSTALL NO.2 AND NO.3 CYLINDER HEAD COVERS**

Install the head covers with the four bolts.

10. CONNECT DISTRIBUTOR CONNECTOR