COMPRESSION INSPECTION

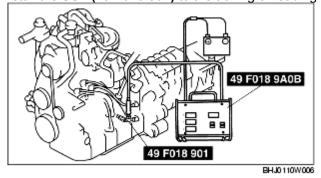
BHE011002000W03

Warning

- · Hot engines can cause severe burns. Be careful not to burn yourself during removal/installation of each
- Fuel vapor is hazardous. It can very easily ignite, causing serious injury and damage. Always keep sparks and flames away from fuel.
- 1. Remove the engine cover.
- 2. Verify that the battery is fully charged. (See <u>BATTERY INSPECTION</u>.)
- 3. Warm up the engine.
- 4. To decrease the exhaust system temperature, stop the engine and leave it as it is for approx. 10 min.
- 5. Remove the trailing or leading side spark plug of the front and rear rotors. (See SPARK PLUG REMOVAL/INSTALLATION.)
- 6. Disconnect the eccentric shaft position sensor connector. (See ECCENTRIC SHAFT POSITION SENSOR REMOVAL/INSTALLATION.)

Caution

- To cut the fuel injection and ignition, make sure the eccentric shaft position sensor connector is disconnected.
- 7. Measure the compression pressure using the following procedure.
 - (1) Install the SST (49 F018 901) to the trailing or leading side plug hole of the rotor housing.



(2) Set the SST (49 F018 9A0B) as shown in the figure.

• When using the WDS or equivalent, set the WDS or equivalent to the SST (49 F018 901, 49 F018 904) as shown in the figure.



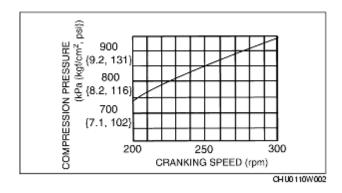
- (3) Depress the accelerator pedal fully and crank for 5-10 s.
- (4) Read the compression and engine speed.

Compression pressure

- Standard: 830 kPa {8.5 kgf/cm², 120 psi} [250 rpm]
- Minimum: 680 kPa {6.9 kgf/cm², 98.6 psi} [250 rpm]
- Difference in chambers: Within 150 kPa {1.5 kgf/cm², 21.8 psi}
- Difference in rotors: Within 100 kPa {1.0 kgf/cm², 14.5 psi}
- (5) Perform the same procedure for the other rotor housing.
- (6) If the compression is at the minimum or less, or the difference in the chambers and difference in the rotors is at the minimum or more, overhaul.

Caution

• If the engine speed when measuring compression differs from the standard, adjust according to the graph.



- 8. Install the spark plugs. (See SPARK PLUG REMOVAL/INSTALLATION.)
- 9. Connect the eccentric shaft position sensor connector. (See <u>ECCENTRIC SHAFT POSITION SENSOR REMOVAL/INSTALLATION</u>.)
- 10. Install the engine cover.