

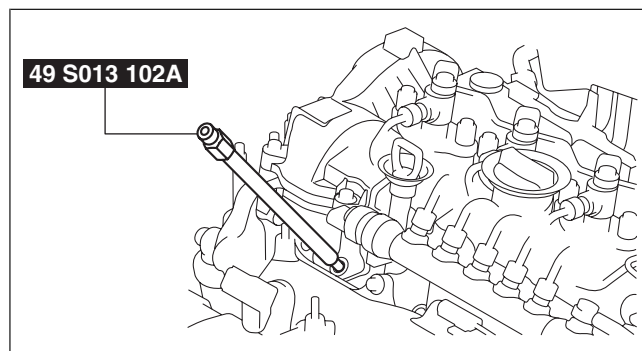
Warning

- Hot engines and oil can cause severe burns. Be careful not to burn yourself during removal/installation of each component.
- Fuel vapor is hazardous. It can very easily ignite, causing serious injury and damage. Always keep sparks and flames away from fuel.
- Fuel line spills and leakage from the pressurized fuel system are dangerous. Fuel can ignite and cause serious injury or death, and damage to property and facilities. If fuel comes into contact with the skin and eyes it will cause irritation. To prevent this, always complete the “Fuel Line Safety Procedure”. (See BEFORE SERVICE PRECAUTION [SKYACTIV-D 2.2].)

1. Verify that the battery is fully charged. (See BATTERY INSPECTION [SKYACTIV-D 2.2].)
 - Recharge it if necessary. (See BATTERY RECHARGING [SKYACTIV-D 2.2].)
2. Warm up the engine to the normal operating temperature.
3. Remove the engine cover. (See ENGINE COVER REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
4. Disconnect the fuel injector connector.
5. Remove the glow plugs. (See GLOW PLUG REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
6. Install the SST using the following procedure.
 - (1) Install the SST (49 S013 102A) to the glow plug installation hole.
 - (2) Tighten the SST to the specified torque.

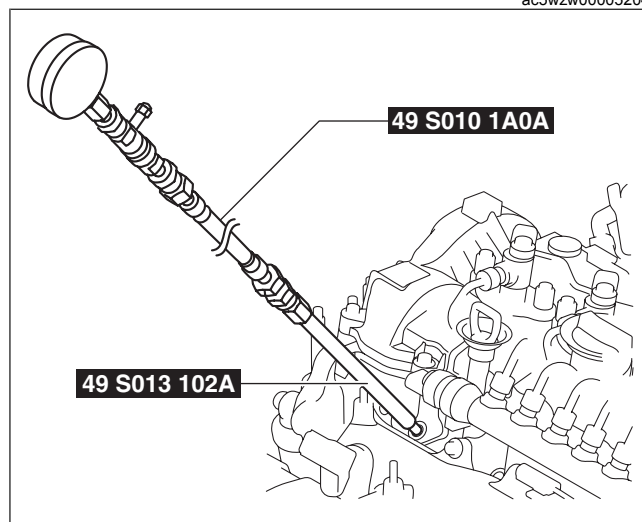
Tightening torque

15—20 N·m {1.6—2.0 kgf·m, 12—14 ft·lbf}



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- (3) Connect the SST (49 S010 1A0A) to the SST (49 S013 102A).
7. Measure the compression pressure using the following procedure.
 - (1) Fully depress the accelerator pedal.
 - (2) Crank the engine and measure the compression pressure.



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Compression

Standard: 2255 kPa {22.99 kgf/cm², 327.1 psi} [180 rpm]

Minimum: 1804 kPa {18.40 kgf/cm², 261.6 psi} [180 rpm]

Maximum difference between cylinders: 147 kPa {1.50 kgf/cm², 21.3 psi} [180 rpm]

- (3) Perform Steps (1) to (2) for all cylinders.
- (4) If the measured value is less than the minimum value, or there is a cylinder whose compression value varies from that of other cylinders by **147 kPa {1.50 kgf/cm², 21.3 psi}** or more, add a small amount of engine oil through the glow plug installation hole and perform Steps (1) to (3).
 - If the pressure increases by adding the engine oil, the piston ring or the cylinder surface is worn, or they are damaged. Perform overhaul servicing.
 - If the pressure does not increase, valve seizure, valve attachment malfunction, or pressure leakage from the cylinder head gasket might be occurring. Perform overhaul servicing.
8. Remove the SSTs.
9. Install the glow plugs. (See GLOW PLUG REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
10. Reconnect the fuel injector connector.
11. Install the engine cover. (See ENGINE COVER REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
12. Clear the DTC for the PCM using the M-MDS.