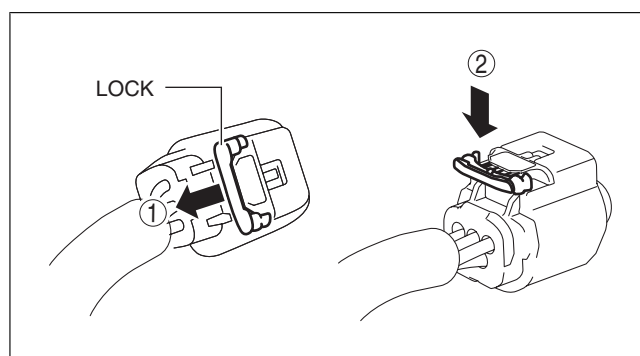


Warning

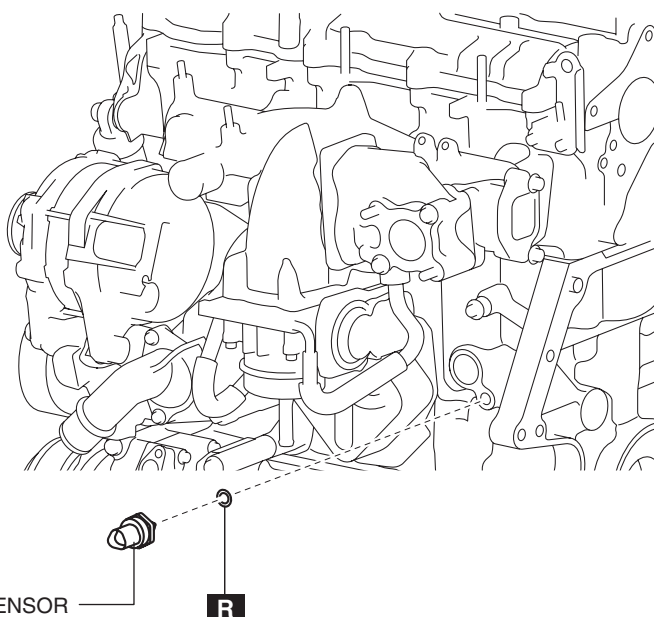
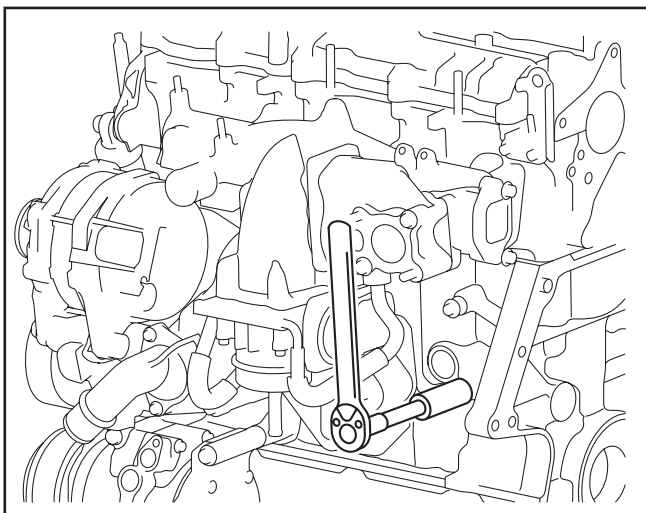
- Hot engines and engine oil can cause severe burns. Turn off the engine and wait until it and the engine oil have cooled.
- A vehicle that is lifted but not securely supported on safety stands is dangerous. It can slip or fall, causing death or serious injury. Never work around or under a lifted vehicle if it is not securely supported on safety stands.
- Continuous exposure to USED engine oil has caused skin cancer in laboratory mice. Protect your skin by washing with soap and water immediately after working with engine oil.

1. Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].)
2. Remove the coolant reserve tank. (See COOLANT RESERVE TANK REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
3. Disconnect the connector for the engine oil temperature sensor/engine oil pressure sensor using the following procedure:
 - (1) Pull out the connector lock in the direction of the arrow.
 - (2) Press the lock down in the direction of the arrow and disconnect the connector.
4. Disconnect starter terminal B and set the wiring harness aside. (See STARTER REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)



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5. Remove the engine oil temperature sensor/engine oil pressure sensor.



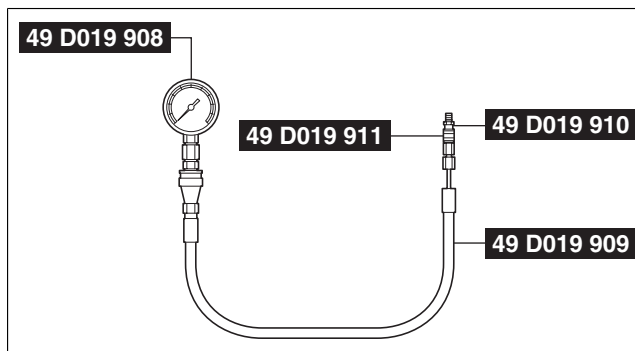
ENGINE OIL TEMPERATURE SENSOR/ENGINE OIL PRESSURE SENSOR

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Note

- Use the following SSTs in this inspection.
 - **49 D019 908 (gauge)**
 - **49 D019 909 (hose)**
 - **49 D019 910 (adapter)**
 - **49 D019 911 (adapter)**



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6. Install the **SSTs** to the engine oil temperature sensor/engine oil pressure sensor installation hole using the following procedure.
 - (1) Assemble **SSTs 49 D019 908, 49 D019 909, and 49 D019 911** outside of the engine compartment beforehand.
 - (2) Install **SST 49 D019 910** to the engine oil temperature sensor/engine oil pressure sensor installation hole.
 - (3) Install **SST 49 D019 911** to the **SST 49 D019 910**.
7. Connect starter terminal B. (See STARTER REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
8. Install the coolant reserve tank. (See COOLANT RESERVE TANK REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
9. Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].)
10. Warm up the engine to normal operating temperature.
11. Run the engine at the specified speed, and note the gauge readings.
 - If not within the specification, inspect for the cause and repair or replace if necessary.

Note

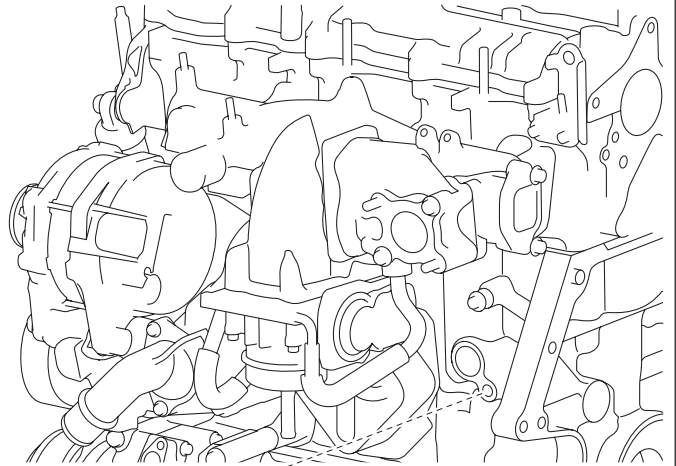
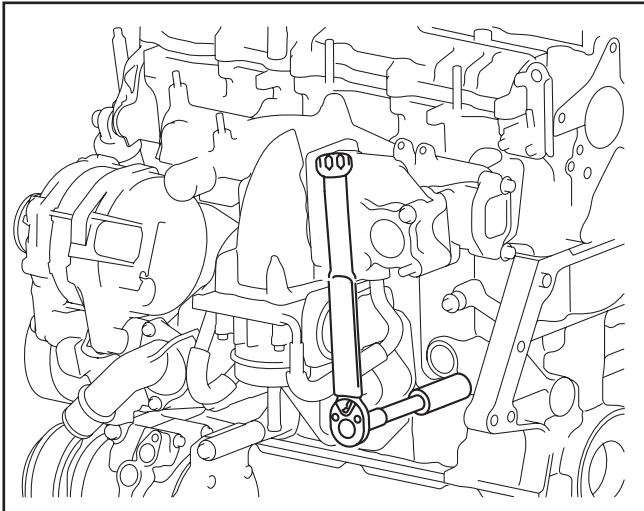
- The oil pressure can vary with oil viscosity, temperature and engine speed.

Oil pressure (reference value) [oil temperature: 80—90 °C {176—194 °F}, coolant temperature: 80—90 °C {176—194 °F}]

Lo: 140—190 kPa {1.43—1.93 kgf/cm², 20.4—27.5 psi} [1,500 rpm]

Hi: 300—440 kPa {3.06—4.48 kgf/cm², 43.6—63.8 psi} [3,500 rpm]

12. Stop the engine and wait until it is cools.
13. Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].)
14. Remove the coolant reserve tank. (See COOLANT RESERVE TANK REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
15. Disconnect starter terminal B and set the wiring harness aside. (See STARTER REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
16. Remove the **SSTs**.
17. Install the engine oil temperature sensor/engine oil pressure sensor.



ENGINE OIL TEMPERATURE SENSOR/ENGINE OIL PRESSURE SENSOR

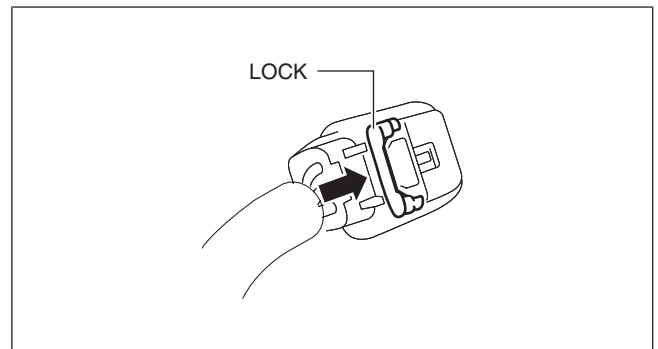
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Tightening torque

14—18 N·m {1.5—1.8 kgf·m, 11—13 ft·lbf}

18. Connect the connector for the engine oil temperature sensor/engine oil pressure sensor and press it in the lock direction of the arrow.
19. Connect starter terminal B. (See STARTER REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
20. Install the coolant reserve tank. (See COOLANT RESERVE TANK REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
21. Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].)
22. Start the engine and confirm that there is no oil leakage.
 - If there is oil leakage, repair or replace the applicable part.



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