

## OIL CONTROL VALVE (OCV) INSPECTION [SKYACTIV-D 2.2]

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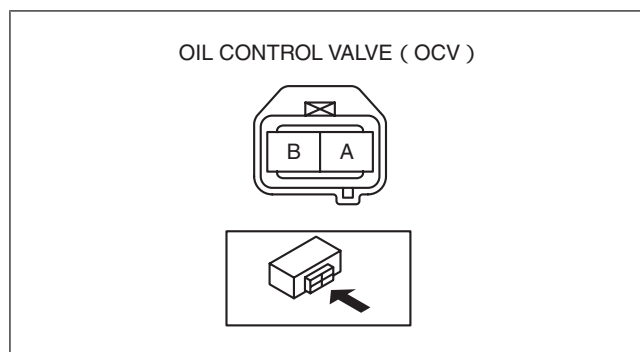
### Coil Resistance Inspection

1. Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].)
2. Remove the engine cover. (See ENGINE COVER REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
3. Remove the battery. (See BATTERY REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
4. Remove the air inlet pipe and turbocharger air inlet hose as a single unit. (See INTAKE-AIR SYSTEM REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
5. Disconnect the OCV connector.
6. Measure the resistance between terminals A and B using an ohmmeter.

### OCV coil resistance

**6.9—7.9 ohms [20°C {68°F}]**

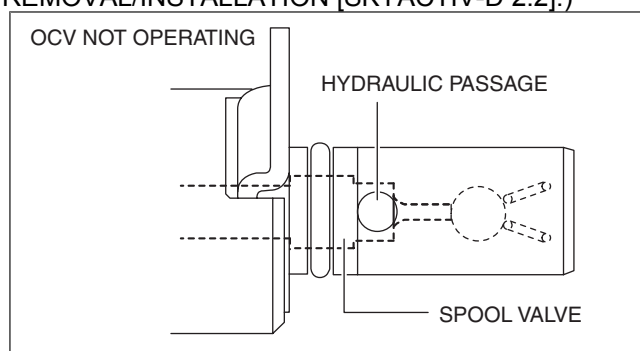
- If not as specified, replace the OCV. (See OIL CONTROL VALVE (OCV) REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
7. Install in the reverse order of removal.



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### Spool Valve Operation Inspection

1. Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].)
2. Remove the engine cover. (See ENGINE COVER REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
3. Remove the battery. (See BATTERY REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
4. Remove the air inlet pipe and turbocharger air inlet hose as a single unit. (See INTAKE-AIR SYSTEM REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
5. Remove the OCV. (See OIL CONTROL VALVE (OCV) REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
6. Verify that the spool valve inside the OCV is at the position shown in the figure from the hydraulic passage.
  - If there is any malfunction, replace the OCV. (See OIL CONTROL VALVE (OCV) REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
7. Verify that the battery is fully charged. (See BATTERY INSPECTION [SKYACTIV-D 2.2].)
  - If not as specified, recharge the battery. (See BATTERY RECHARGING [SKYACTIV-D 2.2].)



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### Note

- When applying battery positive voltage between the OCV terminals, the connection can be either of the following:
  - Positive battery cable to terminal A, negative battery cable to terminal B
  - Positive battery cable to terminal B, negative battery cable to terminal A

8. Verify that the spool valve operates and it moves to the position shown in the figure from the hydraulic passage when battery voltage is applied between OCV terminals A and B.
  - If there is any malfunction, replace the OCV.  
(See OIL CONTROL VALVE (OCV) REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
9. Stop applying battery positive voltage and verify that the spool valve returns to its original position.
  - If there is any malfunction, replace the OCV.  
(See OIL CONTROL VALVE (OCV) REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
10. Install the OCV. (See OIL CONTROL VALVE (OCV) REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
11. Install in the reverse order of removal.

