

IGNITION SYSTEM (2ZZ-GE)

ON-VEHICLE INSPECTION

NOTICE:

"Cold" and "Hot" in these sentences express the temperature of the coils themselves. "Cold" is from -10°C (14°F) to 50°C (122°F) and "Hot" is from 50°C (122°F) to 100°C (212°F).

1. INSPECT IGNITION COIL (WITH IGNITER) AND SPARK TEST

- (a) Confirm DTC.

NOTICE:

If DTC is indicated, carry out troubleshooting in accordance with the procedure on the following DTC.

- (b) Check that the spark occurs.
- (1) Remove the ignition coils (with igniter).
 - (2) Using a 16 mm (0.63 in) plug wrench, remove the spark plugs.
 - (3) Install the spark plugs to each ignition coils (with igniter), and connect the ignition coil connectors.
 - (4) Disconnect the 4 injector connectors.
 - (5) Ground the spark plugs.
 - (6) Check if spark occurs while engine is being cranked.

NOTICE:

- **Be sure to ground the spark plug, when checking.**
- **Replace the ignition coil when it is given an impact.**
- **Do not crank the engine for more than 2 seconds.**

HINT:

If the spark does not occur, do the test as follow.

- (c) Using a 16 mm (0.63 in.) plug wrench, install the spark plugs.
Torque: 18 N·m (178 kgf·cm, 13 ft·lbf)
- (d) Install the ignition coil with igniter.
Torque: 9.0 N·m (92 kgf·cm, 80 in·lbf)