

IGNITION SYSTEM (1MZ-FE)

ON-VEHICLE INSPECTION

18038-01

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 AND SPARK TEST

(a) Confirm DTC.

NOTICE:

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

HINT:

[See page 05-301](#)

(b) Check that the spark occurs.

- (1) Remove the intake air surge tank ([See page 14-143](#))
- (2) Remove the ignition coils.
- (3) Using a 16 mm (0.63 in.) plug wrench, remove the all spark plugs.
- (4) Install the spark plugs to each ignition coils, and connect the ignition coil connectors.
- (5) Disconnect the all injector connectors.
- (6) Ground the spark plugs.
- (7) 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.**

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 (184 kgf·cm, 13 ft·lbf)
- (d) Install the ignition coils.
Torque: 8.0 N·m (82 kgf·cm, 71 in·lbf)