# IGNITION SYSTEM (1MZ–FE)

18038–01

## 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 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)**