

# IGNITION SYSTEM (1AZ-FE)

## ON-VEHICLE INSPECTION

1803C-01

### NOTICE:

"Cold" and "Hot" in these sentences express the temperature of the coils themselves. "Cold" is from  $-10^{\circ}\text{C}$  ( $14^{\circ}\text{F}$ ) to  $50^{\circ}\text{C}$  ( $122^{\circ}\text{F}$ ) and "Hot" is from  $50^{\circ}\text{C}$  ( $122^{\circ}\text{F}$ ) to  $100^{\circ}\text{C}$  ( $212^{\circ}\text{F}$ ).

### 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.

HINT:

[See page 05-17](#)

(b) Check that the spark occurs.

- (1) Remove the cylinder head cover No.2.
- (2) Remove the ignition coils (with igniter).
- (3) Using a 16 mm (0.63 in.) plug wrench, remove the all spark plugs.
- (4) Install the spark plugs to each ignition coils (with igniter), 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: 19 N·m (194 kgf·cm, 14 ft·lbf)**

(d) Install the ignition coil with igniter.

**Torque: 9.0 N·m (92 kgf·cm, 80 in·lbf)**