

# IGNITION SYSTEM (2AZ-FE)(From July, 2003)

## ON-VEHICLE INSPECTION

1809Q-05

**NOTICE:**

In this section, the terms “cold” and “hot” refer to the temperature of the coils. “Cold” means approximately  $-10^{\circ}\text{C}$  ( $14^{\circ}\text{F}$ ) to  $50^{\circ}\text{C}$  ( $122^{\circ}\text{F}$ ). “Hot” means approximately  $50^{\circ}\text{C}$  ( $122^{\circ}\text{F}$ ) to  $100^{\circ}\text{C}$  ( $212^{\circ}\text{F}$ ).

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

- (a) Check for DTCs.

**NOTICE:**

If a DTC is present, perform troubleshooting in accordance with the procedure for that DTC.

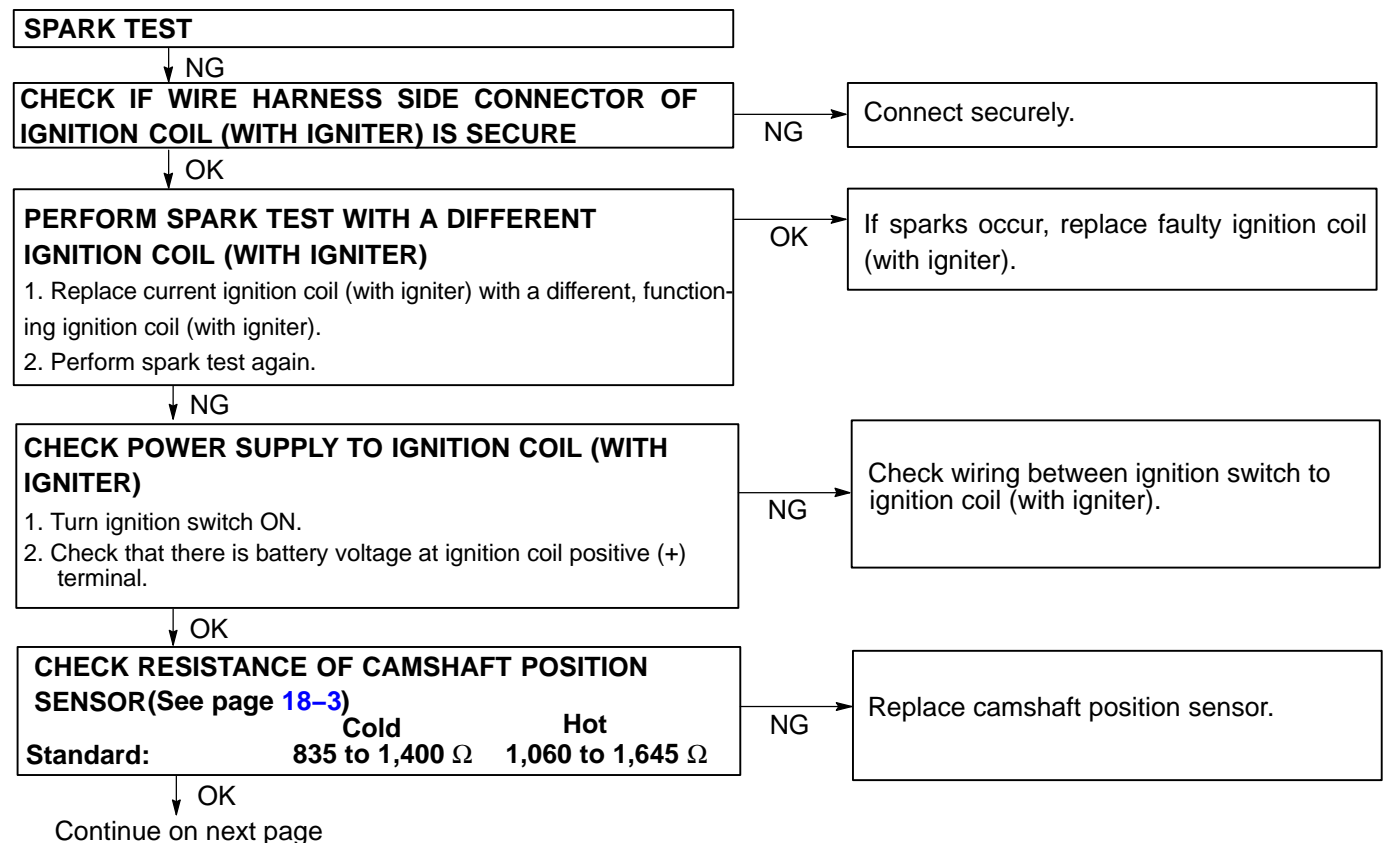
- (b) Check if sparks occur.

- (1) Remove the engine cover No. 1 (see page 14-29).
- (2) Remove the ignition coils.
- (3) Using a 16 mm (0.63 in.) plug wrench, remove the spark plugs.
- (4) Install the spark plugs to each ignition coil and connect the ignition coil connectors.
- (5) Disconnect the 4 injector connectors.
- (6) Ground the spark plugs.
- (7) Check if sparks occur at each spark plug while the engine is being cranked.

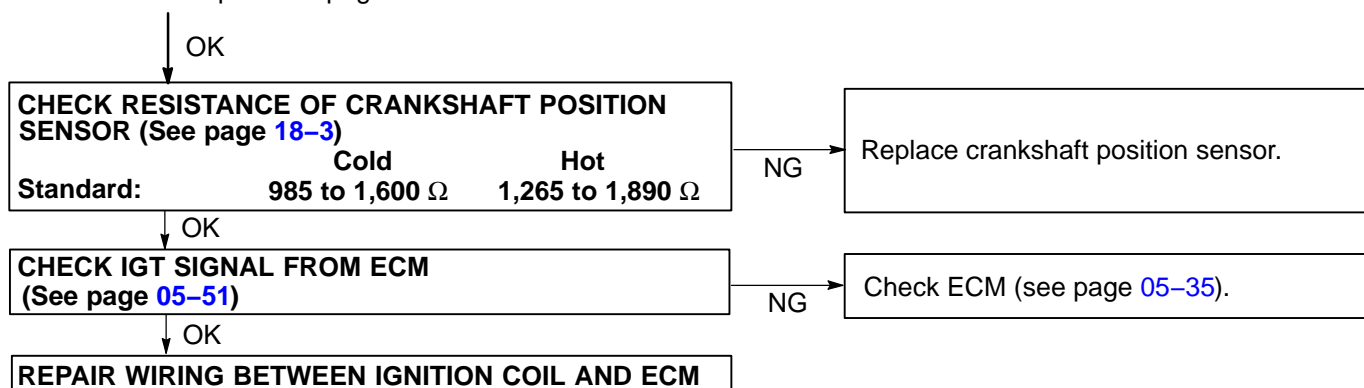
**NOTICE:**

**Do not crank the engine for more than 2 seconds.**

If the sparks do not occur, perform the following test:



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(8) Using a 16 mm (0.63 in.) plug wrench, install the spark plugs.

**Torque: 19 N·m (194 kgf·cm, 14 ft·lbf)**

(9) Install the ignition coils.

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

(10) Install the engine cover No. 1.

**Torque: 7.0 N·m (71 kgf·cm, 62 in·lbf)**