

IGNITION SYSTEM (3MZ-FE)

ON-VEHICLE INSPECTION

1807T-08

NOTICE:

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

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

- (a) Check for DTCs.

NOTICE:

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

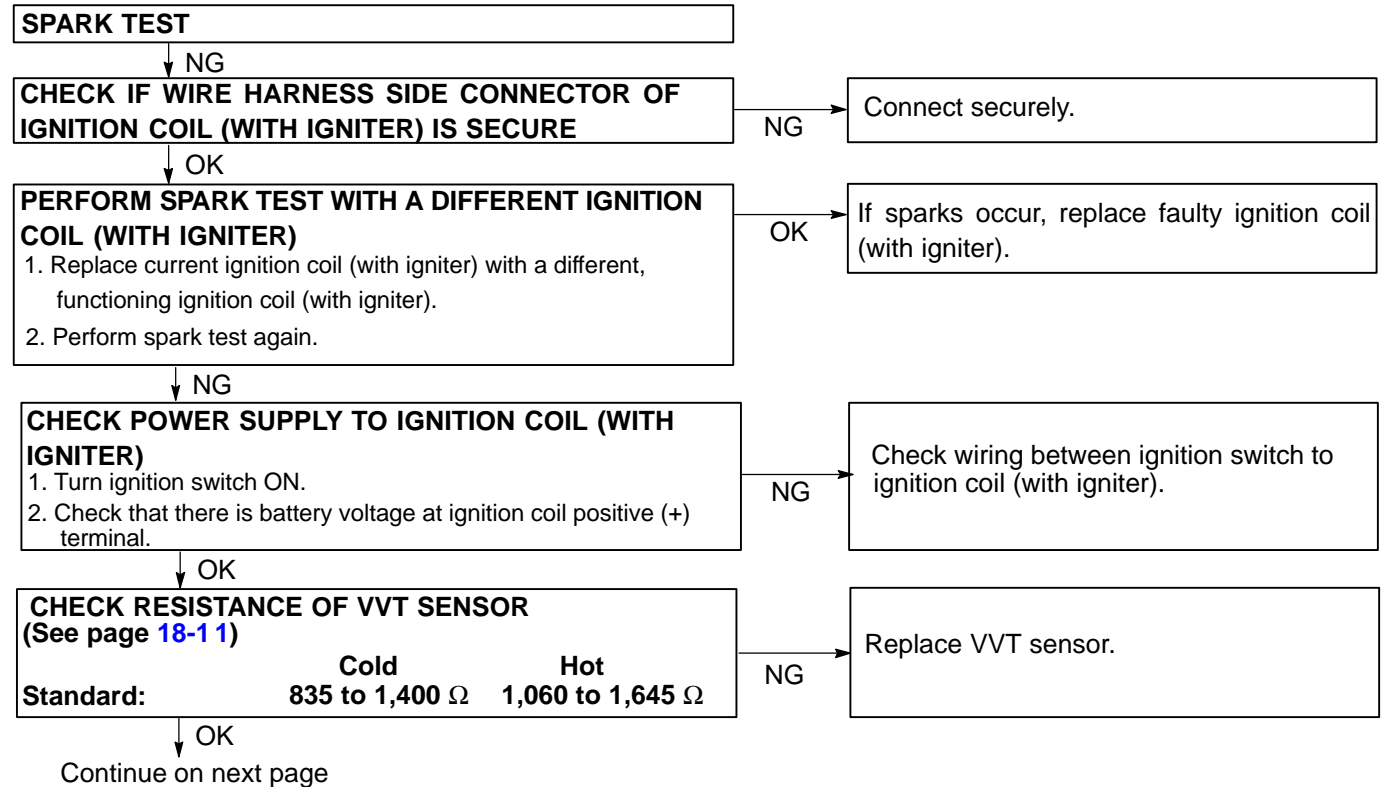
- (b) Check if sparks occur.

- (1) Remove the V-bank cover (see page 14-24).
- (2) Remove the intake air surge tank (see page 14-24).
- (3) Remove the ignition coils.
- (4) Using a 16 mm (0.63 in.) plug wrench, remove the spark plugs.
- (5) Install the spark plugs to each ignition coil and connect the ignition coil connectors.
- (6) Disconnect the 6 injector connectors.
- (7) Ground the spark plugs.
- (8) Check if sparks occur at each spark plug while the engine is being cranked.

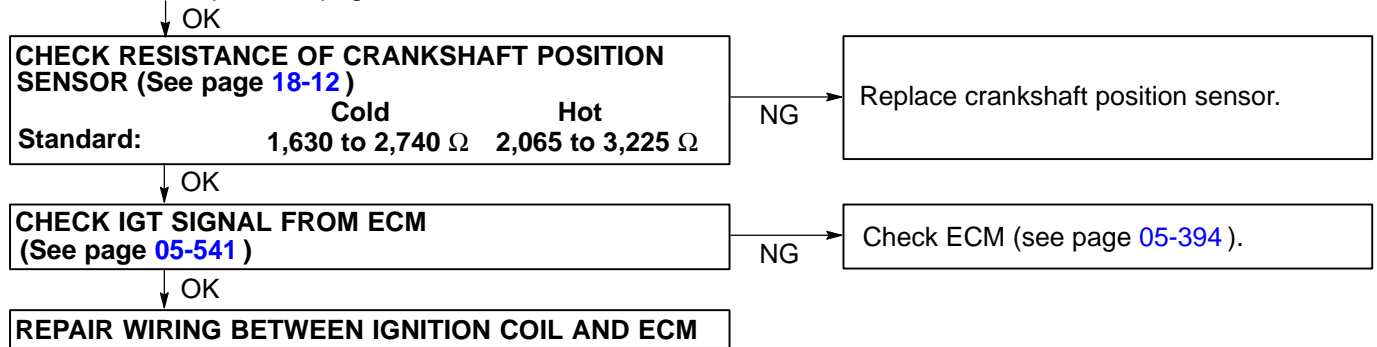
NOTICE:

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

If sparks do not occur, do the following test:



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

Torque: 25 N·m (255 kgf·cm, 18.5 ft·lbf)

(10) Install the ignition coil.

Torque: 8.0 N·m (82 kgf·cm, 71 in·lbf)

(11) Install the intake air surge tank (see page 14-24).

(12) Install the V-bank cover (see page 14-24).