

IGNITION SYSTEM (1AZ-FE/2AZ-FE)

180C5-01

ON-VEHICLE INSPECTION

NOTICE:

"Cold" and "Hot" in this section mean 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) Check the DTCs.

NOTICE:

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

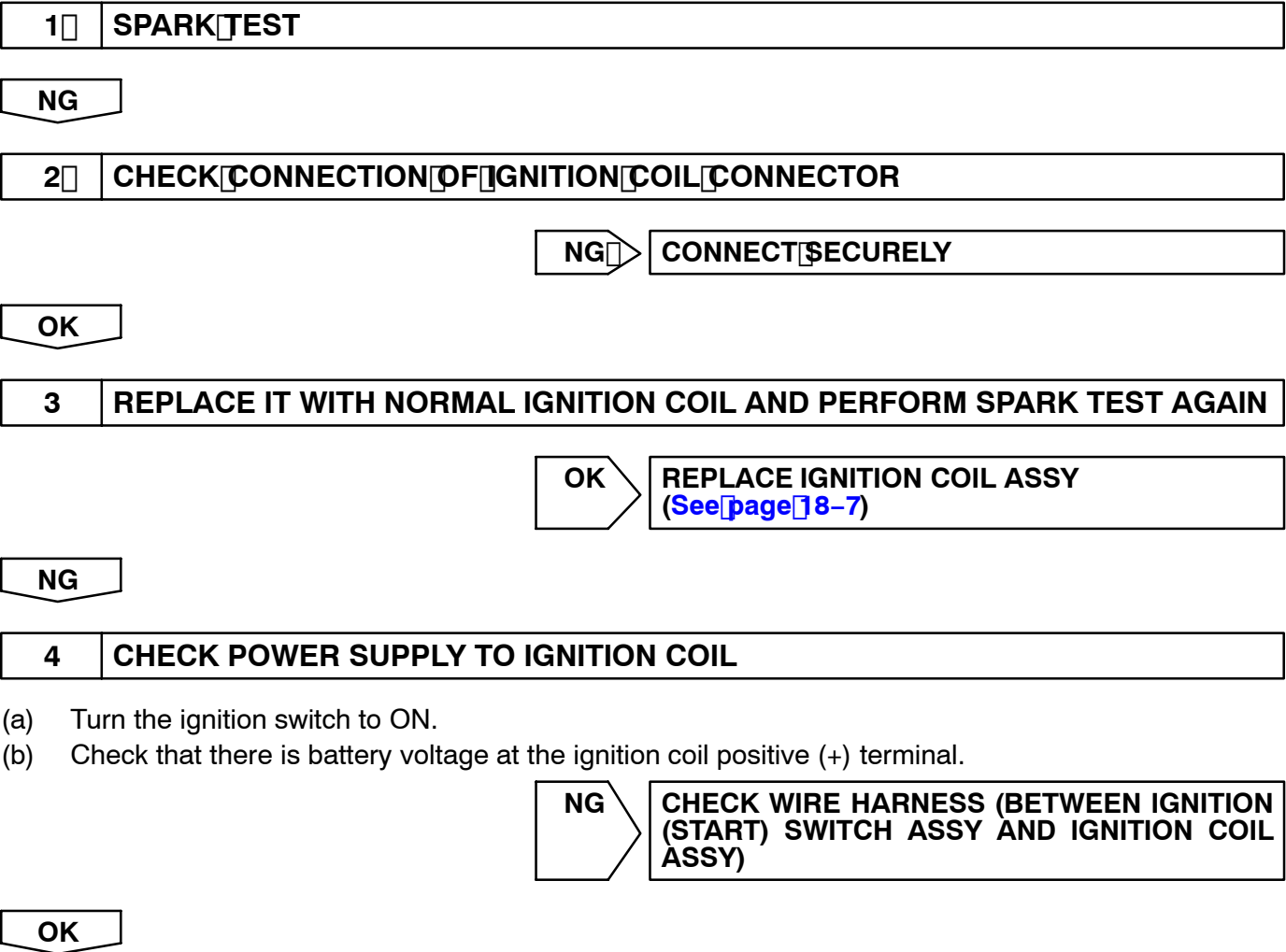
(b) Check that a spark occurs.

- (1) Remove the 4 ignition coils (see page 8-7).
- (2) Using a spark plug wrench 6mm, remove the 4 spark plugs respectively.
- (3) Install the spark plug to each ignition coil, then connect the ignition coil connectors.
- (4) Disconnect the 4 fuel injector connectors.
- (5) Ground the spark plugs.
- (6) Check that the sparks occur at each spark plug while the engine is being cranked.

NOTICE:

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

If a spark does not occur, perform the following test.



5    INSPECT CAMSHAFT POSITION SENSOR (See page 18-3)

NG    REPLACE CAMSHAFT POSITION SENSOR (See page 18-5)

OK

6    INSPECT CRANKSHAFT POSITION SENSOR (See page 18-3)

NG    REPLACE CRANKSHAFT POSITION SENSOR (See page 18-6)

OK

7    INSPECT IGT SIGNAL FROM ECM (See page 05-29, 05-277)

NG    REPLACE ECM (See page 10-30)

OK

REPAIR WIRE HARNESS (BETWEEN IGNITION COIL ASSY AND IGNITION (START) SWITCH ASSY)