

IGNITION SYSTEM (1GR-FE)

ON-VEHICLE INSPECTION

1806J-01

NOTICE:

"Cold" and "Hot" in this section mean 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 ASSY AND SPARK TEST

- (a) Confirm DTCs.

NOTICE:

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

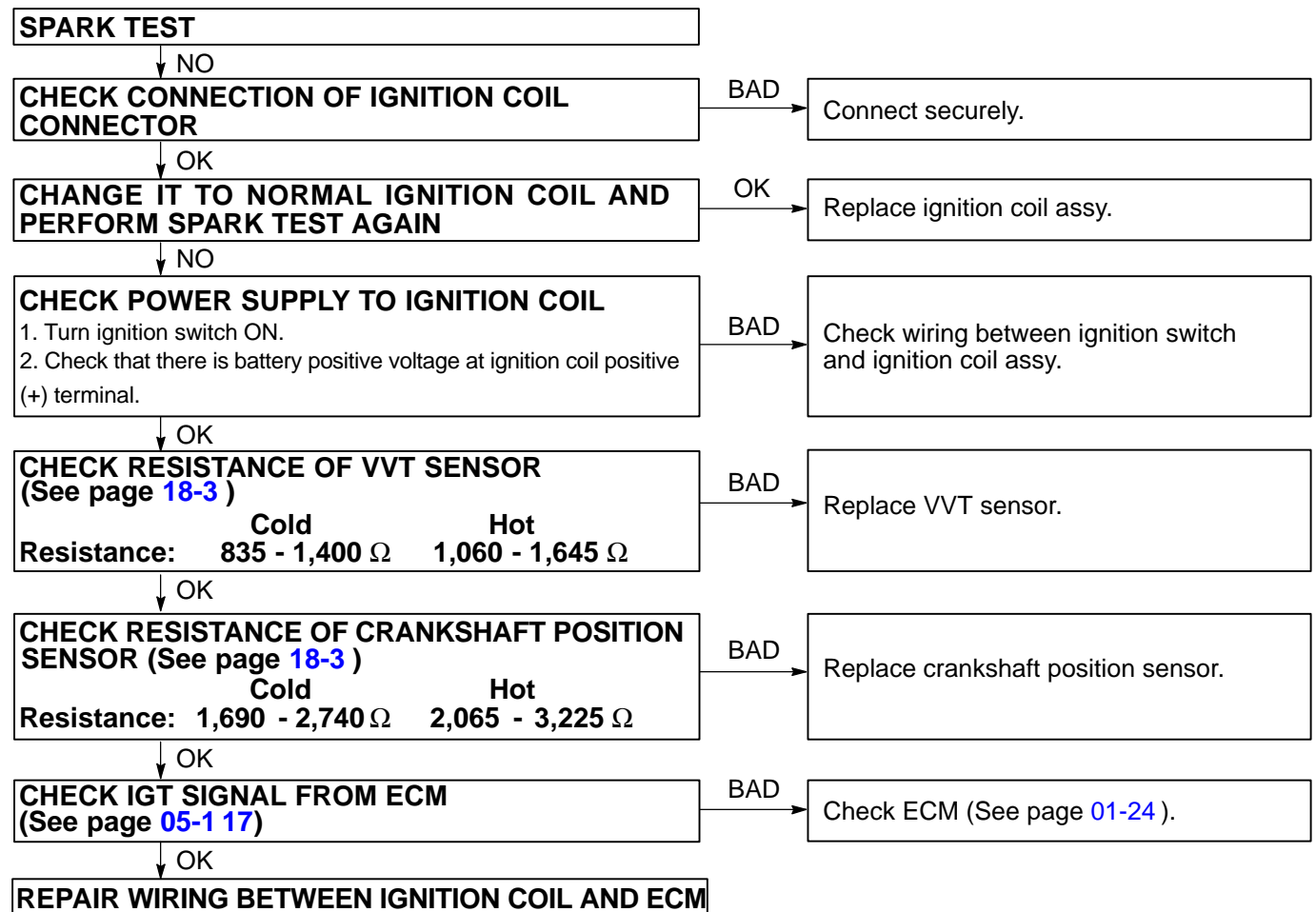
- (b) Check that spark occurs.

- (1) Remove the ignition coils.
- (2) Using a 16mm (0.63 in) plug wrench, remove the spark plugs.
- (3) Install the spark plugs to each ignition coil, and connect the ignition coil connectors.
- (4) Disconnect the 6 injector connectors.
- (5) Ground the spark plugs.
- (6) 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 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: 7.5 N·m (76 kgf·cm, 66 in·lbf)