

IGNITION SYSTEM ON-VEHICLE INSPECTION

IGOMF-02

NOTICE:

"Cold" and "Hot" in these sentences express 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 (WITH IGNITER) AND SPARK TEST

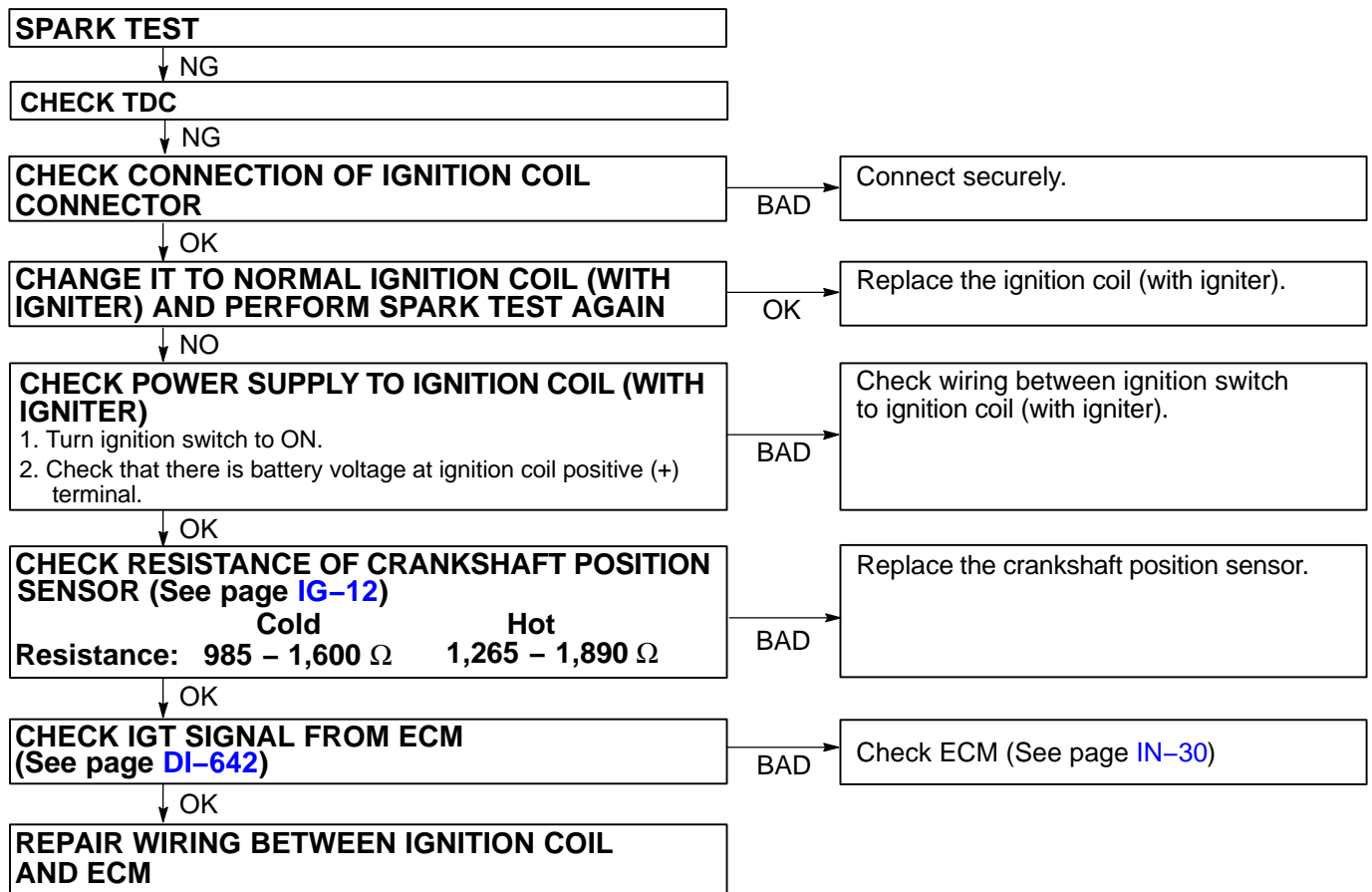
Check that the spark occurs.

- (1) Remove the ignition coils (with igniter).
(see page [IG-5](#))
- (2) Remove the spark plugs.
- (3) Install the spark plugs to each ignition coil (with igniter), and connect the ignition coil (with igniter) connector.
- (4) Disconnect the 8 injector connectors.
- (5) Ground the spark plug.
- (6) Check that spark occurs while engine is being cranked.

NOTICE:

To prevent gasoline from being injected out of injectors during this test, crank the engine for no more than 5 to 10 seconds at a time.

If the spark does not occur, do the test as follows:



(7) Using a 16 mm plug wrench, install the spark plugs.

Torque: 17.5 N·m (180 kgf·cm, 13 ft·lbf)

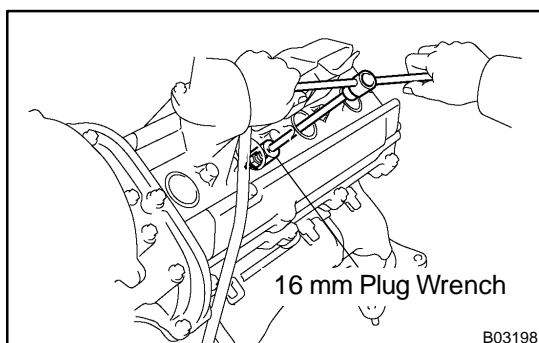
(8) Reinstall the ignition coils (with igniter).

(see page IG-6)

2. INSPECT SPARK PLUGS

(a) Remove the ignition coils (with igniter).

(see page IG-5)



(b) Using a 16 mm plug wrench, remove the spark plugs.



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- (c) Clean the spark plugs.

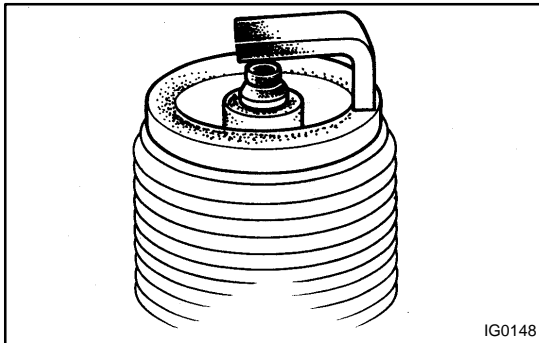
If the electrode has traces of wet carbon, allow it to dry and then clean with a spark plug cleaner.

Air pressure: Below 588 kPa (6 kgf/cm², 85 psi)

Duration: 20 seconds or less

HINT:

If there are traces of oil, remove it with gasoline before using the spark plug cleaner.



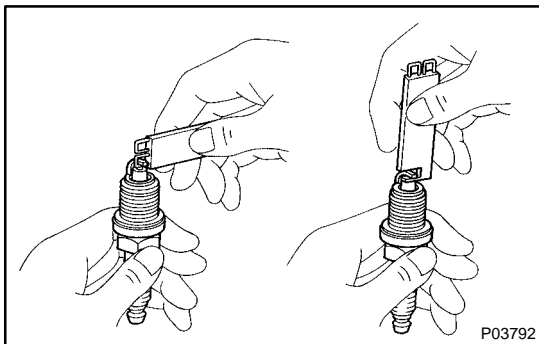
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- (d) Check the spark plug for thread damage and insulator damage.

If abnormal, replace the spark plug.

Recommended spark plug:

DENSO made	SK20R11
NGK made	IFR6A11



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- (e) Adjust the spark plug electrode gap.

Electrode gap: 1.0 to 1.1 mm (0.039 to 0.043 in.)

- (f) Using a 16 mm plug wrench, install the spark plugs.

Torque: 17.5 N·m (180 kgf·cm, 13 ft·lbf)

- (g) Reinstall the ignition coils (with igniter).
(see page [IG-6](#))