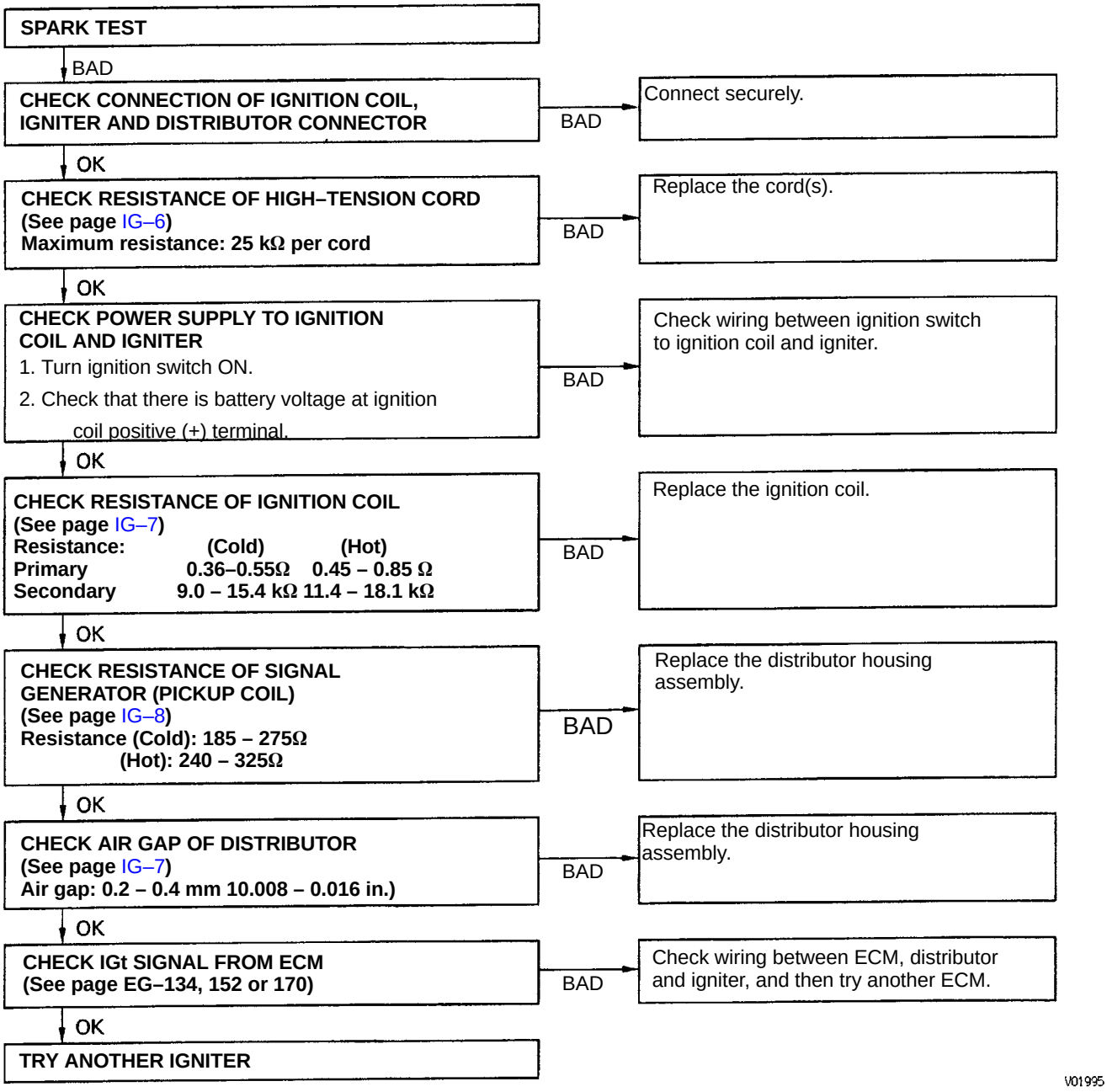
ON–VEHICLE INSPECTION

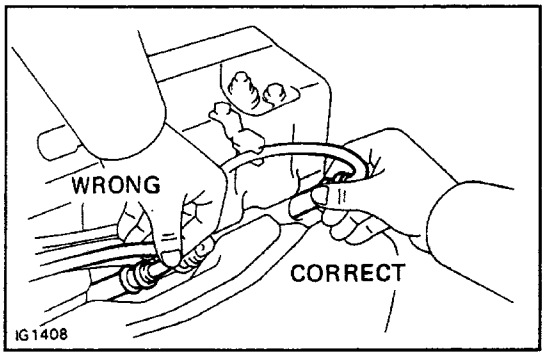
IG06L–01

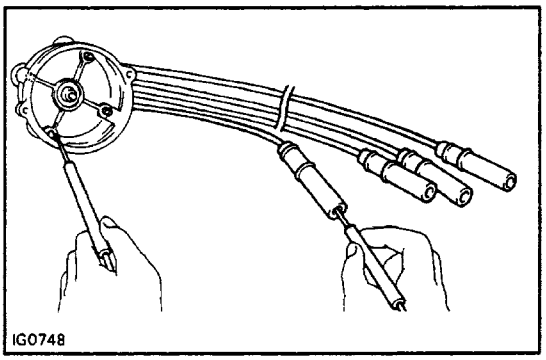
SPARK TEST

(a) Disconnect high–tension cord from the distributor.
(b) Hold the cord end approx. 12.5 mm (0.50 in.) from engine ground of vehicle.
(c) Check if spark occurs while engine is being cranked.

HINT: To prevent gasoline from being injected from injectors during this test, crank the engine for no more than 1 – 2 seconds at a time.
If the spark does not occur, perform the test as follows.







HIGH–TENSION CORD INSPECTION

IG06M–01

1. CAREFULLY REMOVE HIGH–TENSION CORDS BY THEIR RUBBER BOOTS FROM SPARK PLUGS

CAUTION: Do not pull on or bend the cords to avoid damaging the conductor inside.

2. INSPECT HIGH–TENSION CORD TERMINALS

Check the terminals for corrosion, breaks or distor–tion.

Replace cords as required.

3. INSPECT HIGH–TENSION CORD RESISTANCE

Using an ohmmeter, check that the resistance does not exceed the maximum.

Maximum resistance:

25 kΩ per cord

If the resistance exceeds maximum, check the termi–nals. If any defect has been found, replace the high–tension cord and/or distributor cap.

SPARK PLUGS INSPECTION

IG06N–01

1. REMOVE SPARK PLUGS

2. CLEAN AND INSPECT SPARK PLUGS

(a) Clean the spark plugs with a spark plug cleaner or wire brush.

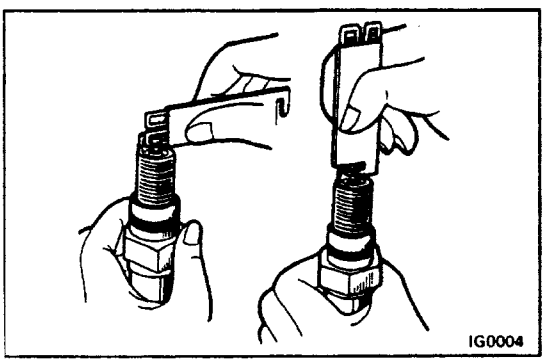
(b) Inspect the spark plugs for electrode wear, thread damage and insulator damage.

If a problem is found, replace the plugs.

Spark plug:

ND W16EXR–U

NGK BPR5EY



3. ADJUST ELECTRODE GAP

Carefully bend the outer electrode to obtain the cor–rect electrode gap.

Correct electrode gap:

0.8 mm (0.031 in.)

4. INSTALL SPARK PLUGS

Torque: 18 N–m (180 kgf–cm, 13 ft–lbf)

IG08P–01

IGNITION COIL INSPECTION

NOTICE: ”Cold” and ’Hot” in the following sentences express the temperature of the coils themselves. ”Cold’ is from –10 °C (14 °F) to 50 °C (104 °F) and ”Hot’ is from 50 °C (104 OF) to 100 °C (212 OF).

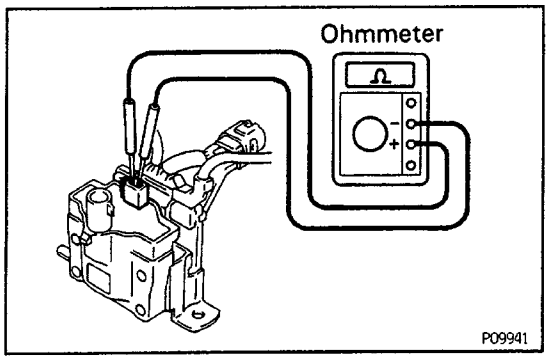
1. DISCONNECT HIGH–TENSION CORD

2. CLEAN COIL AND CHECK FOLLOWING:

(a) Check for cracks or damage.

(b) Check the terminals for carbon tracks.

(c) Check the high–tension cord hole for carbon deposits and corrosion.

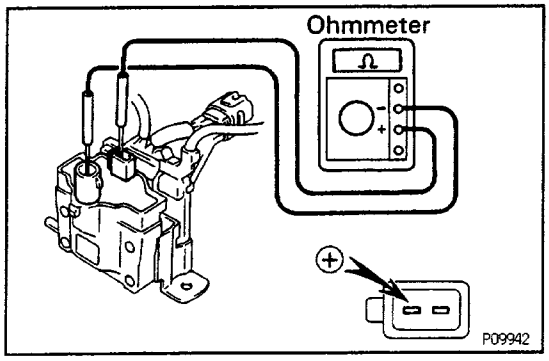


3. MEASURE PRIMARY COIL RESISTANCE

Using an ohmmeter, measure the resistance between the positive (+) and negative (–) terminals.

Primary coil resistance (Cold):0.36–0.55Ω

Primary coil resistance (Hot) :0.45–0.65Ω



4. MEASURE SECONDARY COIL RESISTANCE

Using an ohmmeter, measure the resistance between the positive (+) terminal and high–tension terminal.

Secondary coil resistance (Cold):9.0 –15.4kΩ

Secondary coil resistance (Hot) :11.4–18.1 kΩ

5. CONNECT HIGH–TENSION CORD

IG05Q–01

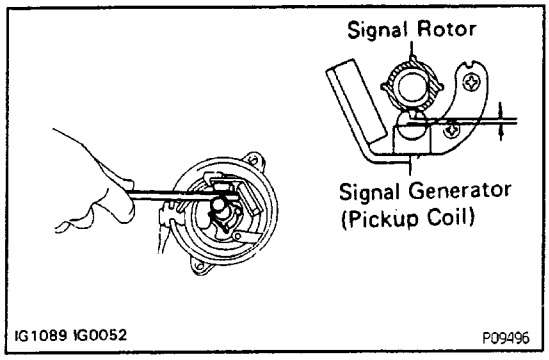
DISTRIBUTOR INSPECTION

1. INSPECT AIR GAP

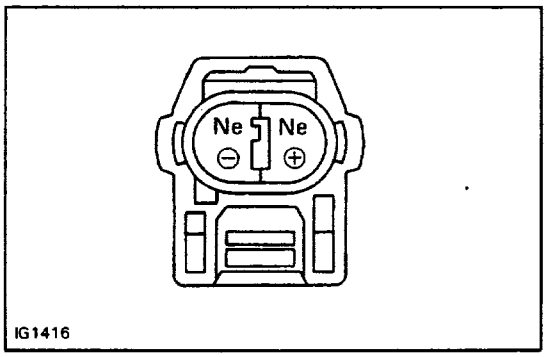
Using a thickness gauge, measure the gap between the signal rotor and the signal generator (pickup coil) projection.

Air gap:

0.2–0.4mm(0.008–0.015in.)



If the air gap is not as specified, replace the housing distributor assembly



2. CHECK SIGNAL GENERATOR (PICKUP COIL)

Using an ohmmeter, check the resistance of the signal generator (pickup coil).

Generator resistance (Cold): 185–2750

Generator resistance (Hot): 240–325Ω

If the resistance is not as specified, replace the dis–tributor housing assembly.