

ON-VEHICLE INSPECTION

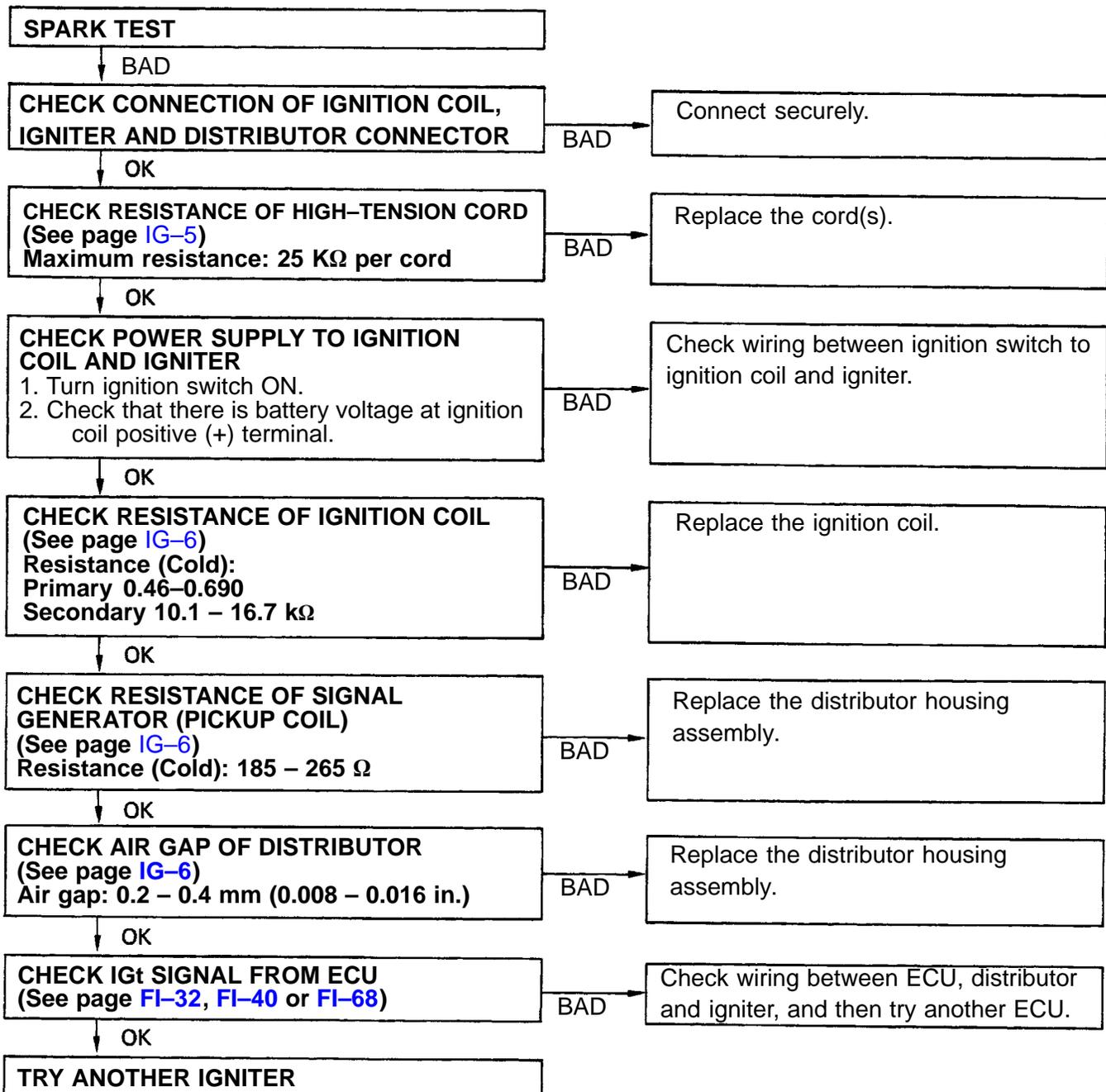
SPARK TEST

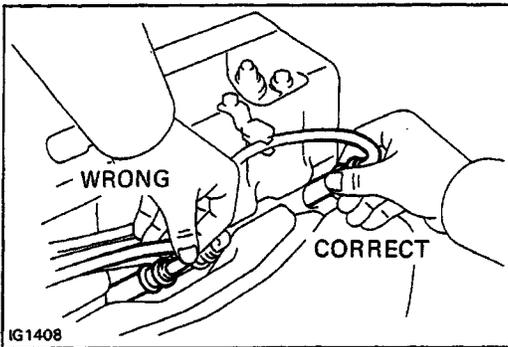
CHECK THAT SPARK OCCURS

- Disconnect high-tension cord from the distributor.
- Hold the cord end approx. 12.5 mm (0.50 in.) from engine ground of vehicle.
- 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.





INSPECTION OF HIGH-TENSION CORD

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

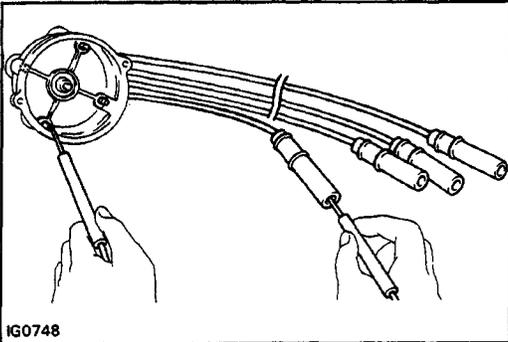
Check the terminals for corrosion, breaks or distortion. Replace cords as required.

3. INSPECT HIGH-TENSION CORD RESISTANCE

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

Maximum resistance: 25 k Ω per cord

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



INSPECTION OF SPARK PLUGS

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

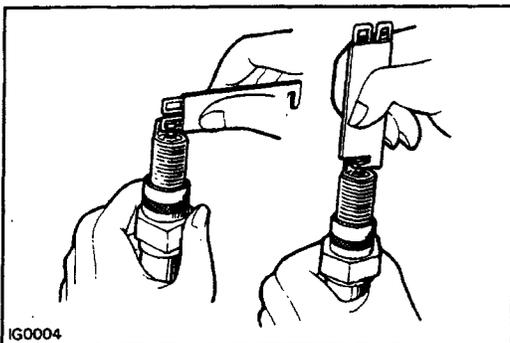
3. ADJUST ELECTRODE GAP

Carefully bend the outer electrode to obtain the correct 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)

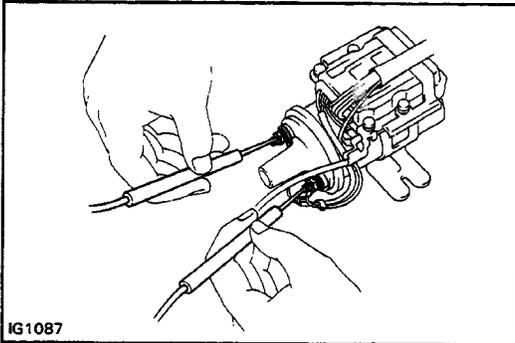


INSPECTION OF IGNITION COIL

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.

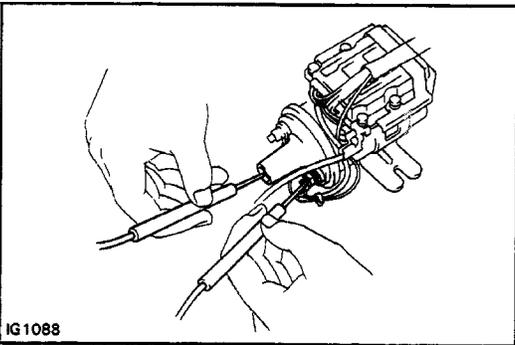


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3. MEASURE PRIMARY COIL RESISTANCE

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

Primary coil resistance (Cold): 0.46 – 0.69Ω



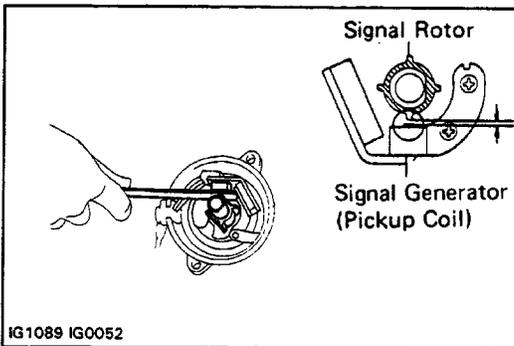
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4. MEASURE SECONDARY COIL RESISTANCE

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

Secondary coil resistance (Cold): 10.1 – 16.7 kΩ

5. CONNECT HIGH-TENSION CORD



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INSPECTION OF DISTRIBUTOR

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 – 0.4 mm (0.008 – 0.016 in.)

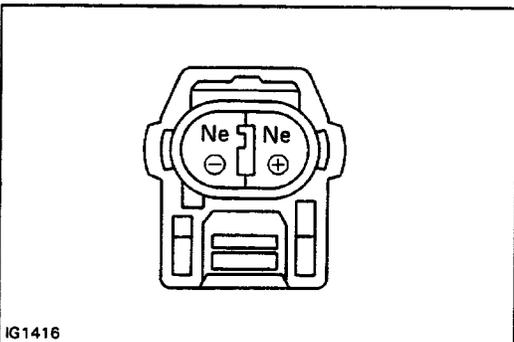
If the air gap is not as specified, replace the housing distributor assembly.

2. CHECK SIGNAL GENERATOR (PICKUP COIL)

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

Generator resistance: 185 – 265Ω

If the resistance is not as specified, replace the distributor housing assembly. _



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