

## ON-VEHICLE INSPECTION

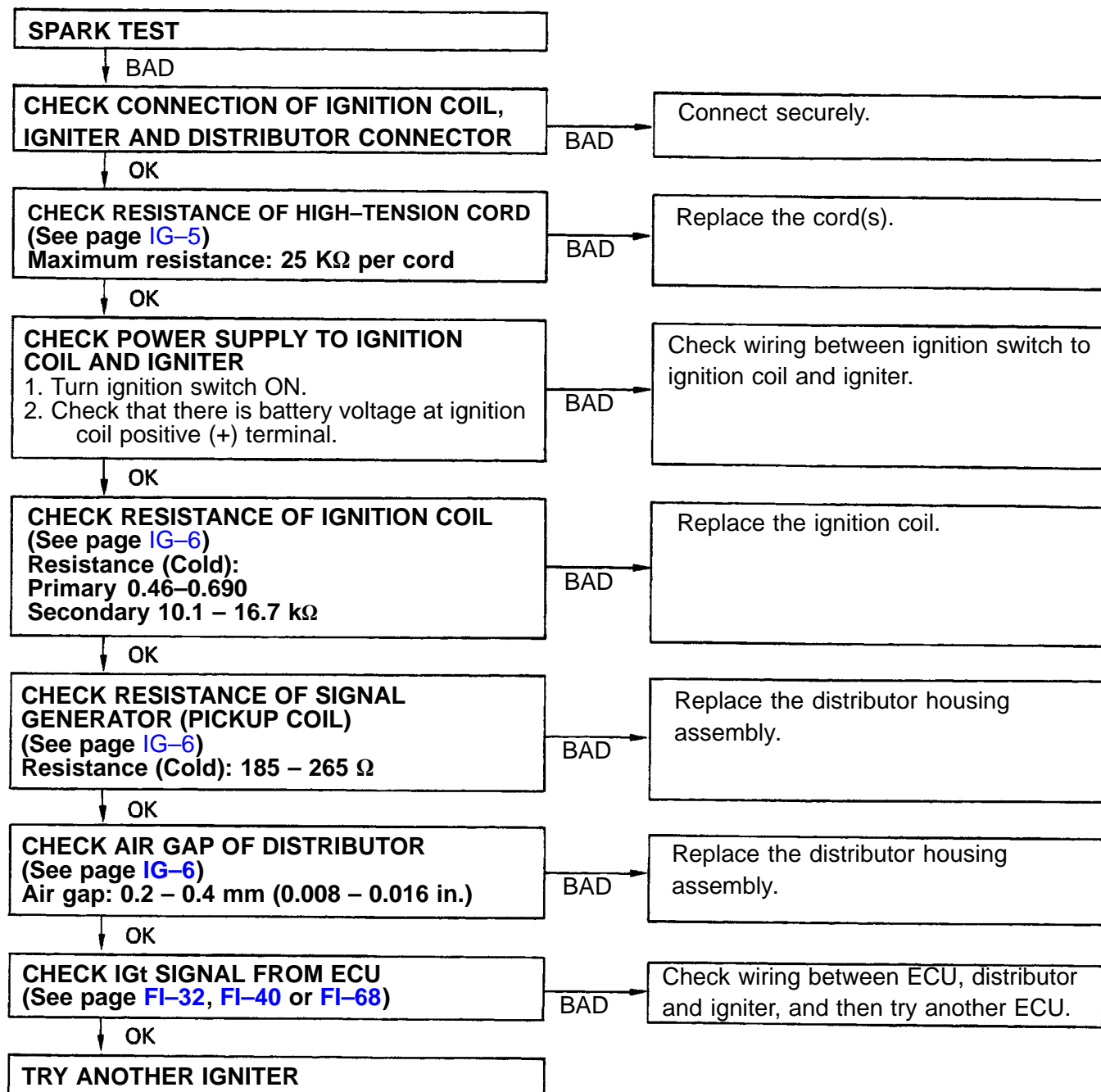
### SPARK TEST

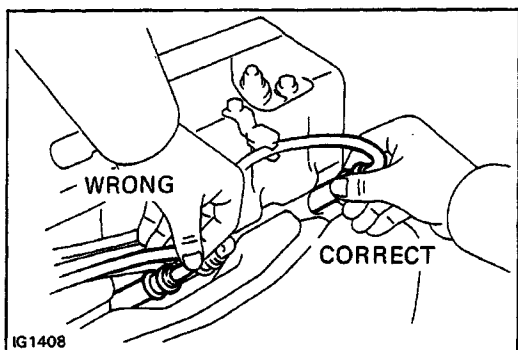
#### CHECK THAT SPARK OCCURS

- (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.





## INSPECTION OF HIGH-TENSION CORD

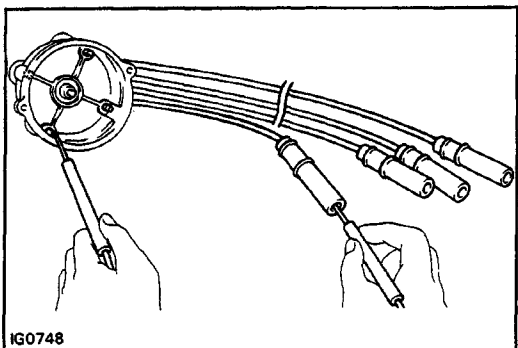
### 1. CAREFULLY REMOVE HIGH-TENSION CORDS BY THEIR RUBBER BOOTS FROM SPARK PLUGS

**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 $\Omega$  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**

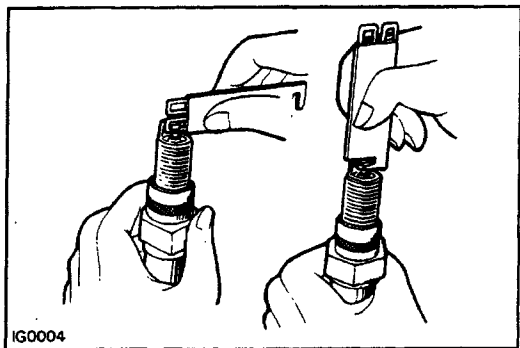
### 3. ADJUST ELECTRODE GAP

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)**

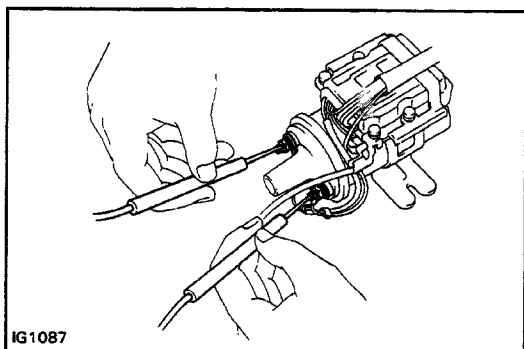


## INSPECTION OF IGNITION COIL

### 1. DISCONNECT HIGH-TENSION CORD

### 2. CLEAN COIL AND CHECK FOLLOWING:

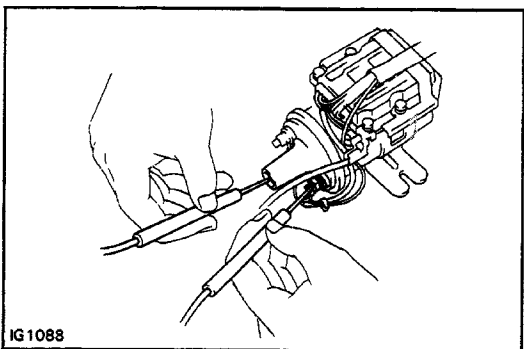
- (a) Check for cracks or damage.
- (b) Check the terminals for carbon tracks.
- (c) Check the high-tension cord hole for carbon deposits and corrosion.



### 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**

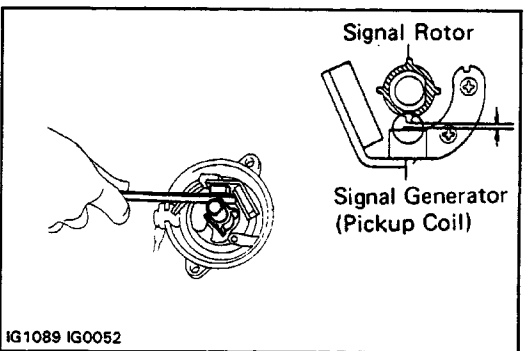


### 4. MEASURE SECONDARY COIL RESISTANCE

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



## 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. \_

