

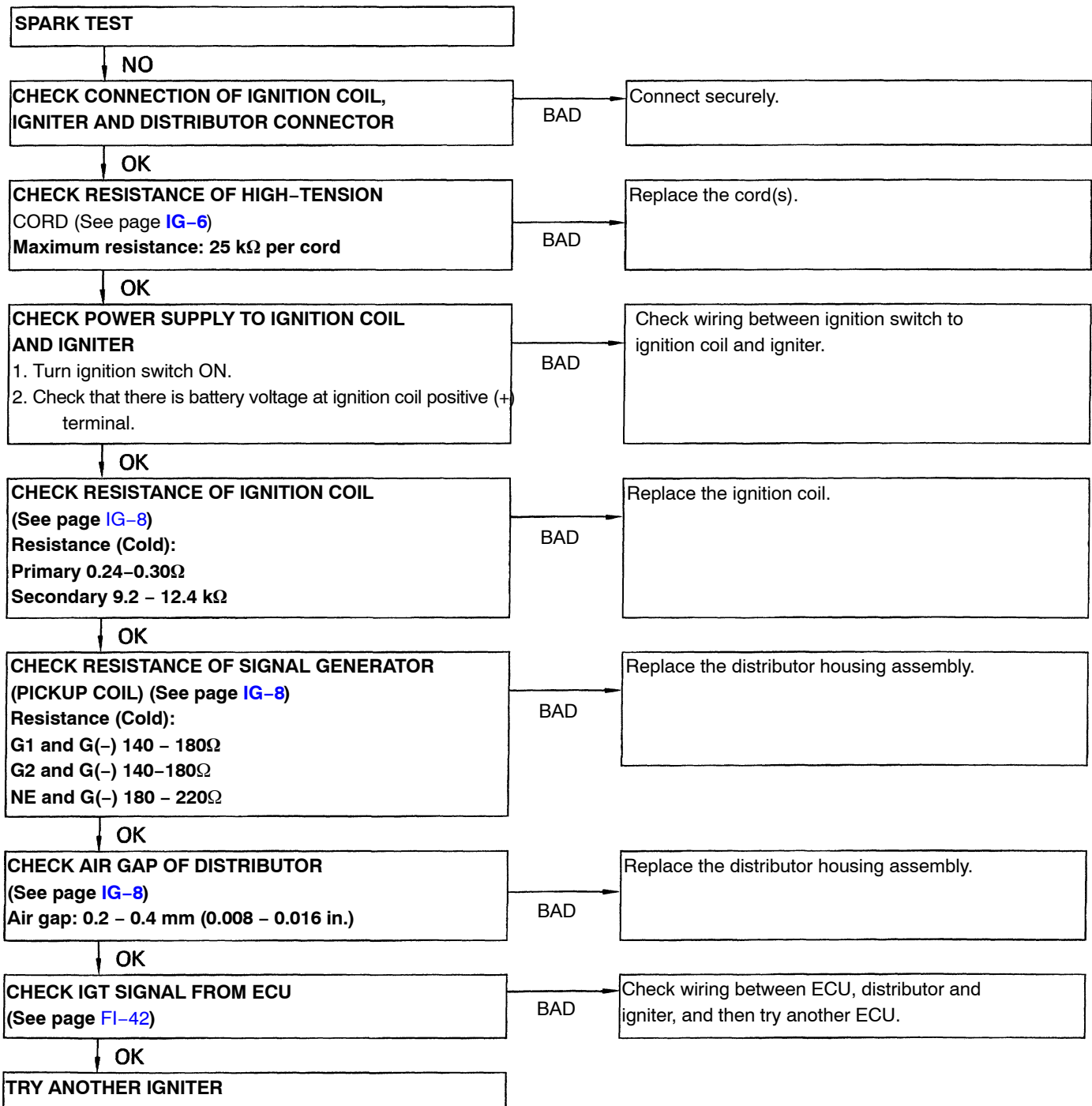
ON-VEHICLE INSPECTION

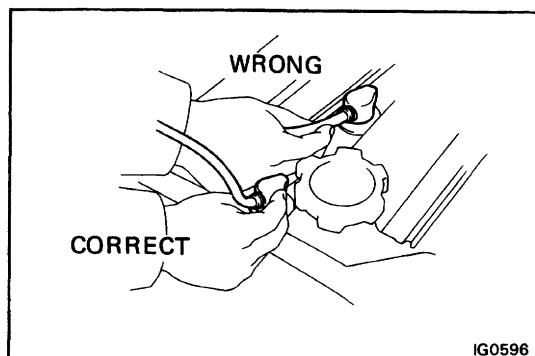
SPARK TEST

CHECK THAT SPARK OCCURS

- (a) Disconnect high-tension cord from the distributor.
- (b) Hold the cord end about 12.5 mm (0.50 in.) from body ground of vehicle.
- (e) See 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:



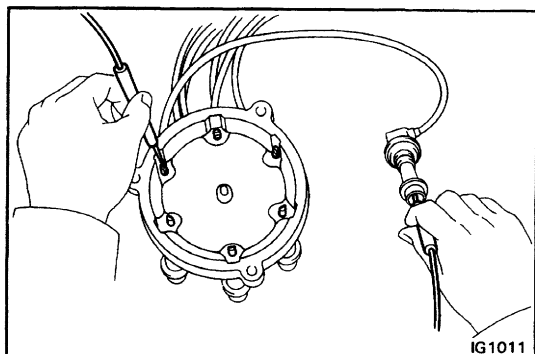


INSPECTION OF HIGH-TENSION CORDS

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

NOTICE: Pulling on or bending the cords may damage the conductor inside.

2. REMOVE DISTRIBUTOR CAP WITH HIGH-TENSION CORDS



3. INSPECT HIGH-TENSION CORD RESISTANCE

Using an ohmmeter, measure the resistance without disconnecting the cap.

Maximum resistance: 25 k Ω per cord

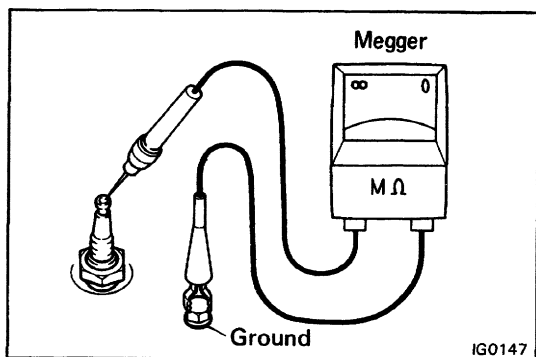
If resistance exceeds maximum, check the terminals.

If any defect has been found, replace the high-tension cord and/or distributor cap.

INSPECTION OF SPARK PLUGS

NOTICE:

- Never use a wire brush for cleaning.
- Never attempt to adjust gap on used plug.
- Spark plugs should be replaced every 60,000 miles (100,000 km).



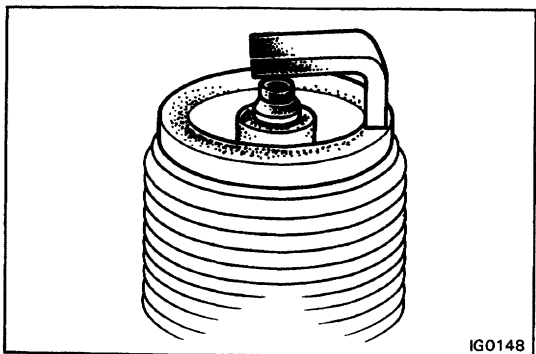
1. INSPECT ELECTRODE

Using a megger (insulation resistance meter), measure the insulation resistance.

Correct insulation resistance: 10 M Ω or more

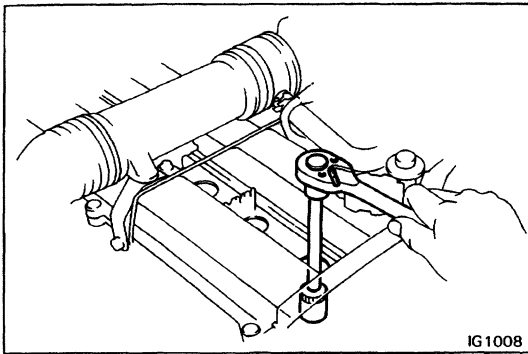
If the resistance is less than specified, proceed to step 3.

HINT: If a megger is not available, the following simple method of inspection provides fairly accurate results.



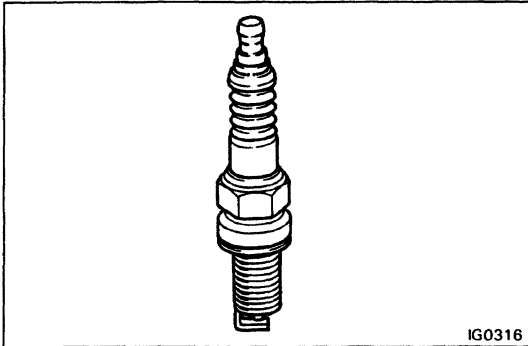
(Simple Method)

- Quickly race the engine to 4,000 rpm five times.
- Remove the spark plug. (See procedure in step 2)
- Visually inspect the spark plug.
 - If the electrode is dry Okay
 - If the electrode is wet Proceed to step 3
- Reinstall the spark plug.
 - (See step 6 on page [IG-7](#))



2. REMOVE SPARK PLUGS

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

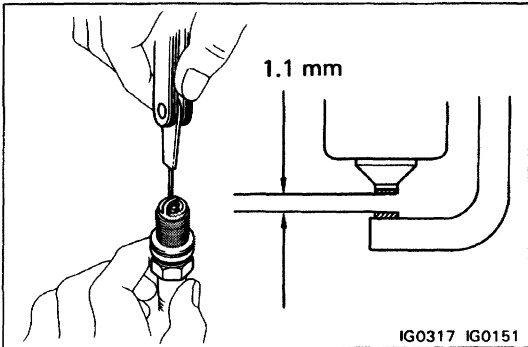


3. VISUALLY INSPECT SPARK PLUGS

Check the spark plug for thread or insulator damage. If abnormal, replace the plug.

Recommended spark plugs: ND PQ16R

NGK BCPR5EP11



4. INSPECT ELECTRODE GAP

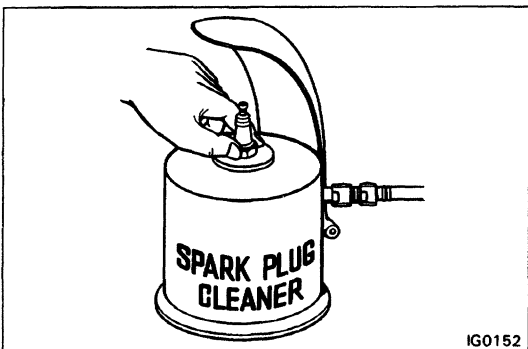
Maximum electrode gap: 1.3 mm (0.051 in.)

If the gap is greater than maximum, replace the plug.

Correct electrode gap of new plug:

1.1 mm (0.043 in.)

If adjusting the gap of a new plug, bend only the base of the ground electrode, do not touch the tip.



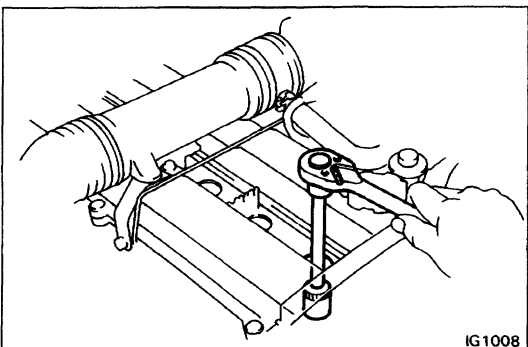
5. CLEAN SPARK PLUGS

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

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

Duration: 20 seconds or less

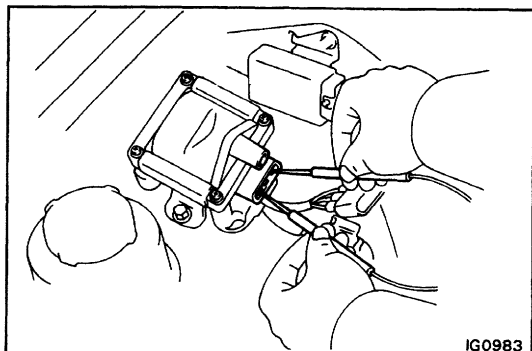
HINT: If there are traces of oil, remove it with gasoline before using the spark plug cleaner.



6. INSTALL SPARK PLUGS

Using a plug wrench (16 mm), install and torque the spark plug.

Torque: 180 kg-cm (13 ft-lb, 18 N-m)



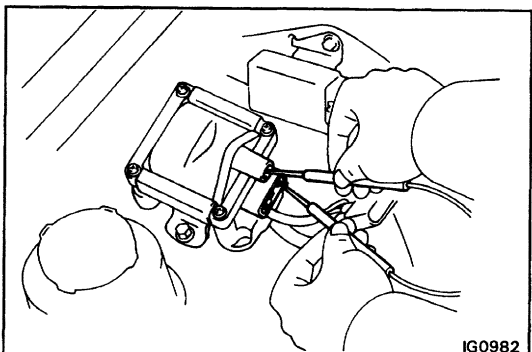
INSPECTION OF IGNITION COIL

1. DISCONNECT HIGH-TENSION CORD
2. INSPECT PRIMARY COIL RESISTANCE

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

Primary coil resistance (Cold): 0.24 – 0.30Ω

If the resistance is not as specified, replace the ignition coil.



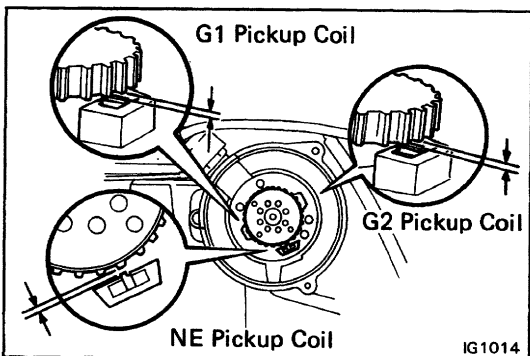
3. INSPECT SECONDARY COIL RESISTANCE

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

Secondary coil resistance (Cold): 9.2 – 12.4 kΩ

If the resistance is not as specified, replace the ignition coil.

4. RECONNECT HIGH-TENSION CORD



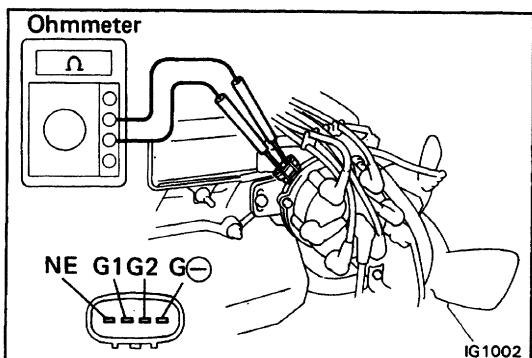
INSPECTION OF DISTRIBUTOR

1. INSPECT AIR GAPS

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

Air gap: 0.2 – 0.4 mm (0.008 – 0.016 in.)

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



2. INSPECT PICKUP COILS

Using an ohmmeter, check resistance of the pickup coil.

G1 pickup coil resistance:

G1 –G(-) 140– 180Ω

G2 pickup coil resistance:

G2–G(-) 140– 180Ω

NE pickup coil resistance:

NE –G(-) 180–220Ω

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

INSPECTION OF IGNITER

(See procedure on page [IG-5](#))