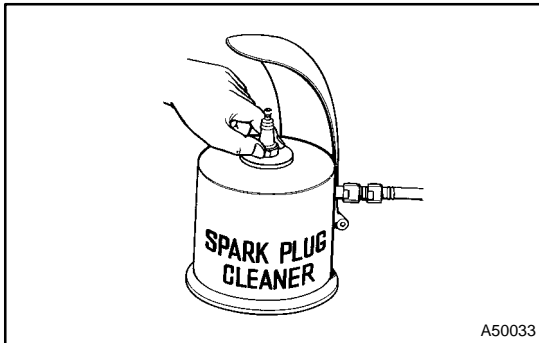


## INSPECTION

### 1. SPARK PLUG

#### NOTICE:

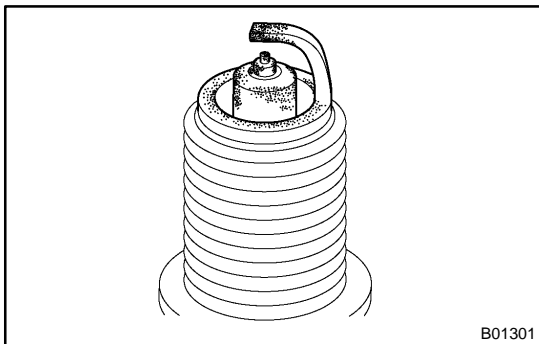
- Never use a wire brush for cleaning.
- Never attempt to adjust the electrode gap on used spark plug.
- Spark plug should be replaced every 192,000 km (120,000 miles).



- (a) Clean the spark plugs.

**Air pressure: Below 588 kPa (6.0 kg/cm<sup>2</sup>, 85 psi)**

**Duration: 20 seconds or less**



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

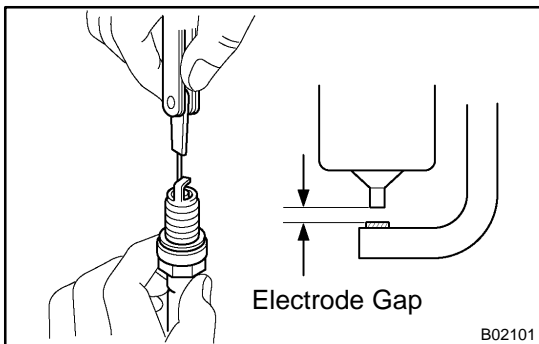
#### HINT:

If abnormal, replace the spark plug.

**Recommended spark plug:**

**SK16R11 (DENSO made)**

**IFR5A11 (NGK made)**



- (c) Check the spark plug electrode gap.

**Electrode gap: 1.1 mm (0.043 in.)**

### 2. CRANK POSITION SENSOR NO.1

- (a) Using an ohmmeter, measure the resistance between terminals.

#### RESISTANCE:

**At cold 835 – 1,400 Ω**

**At hot 1,060 – 1,645 Ω**

#### NOTICE:

”Cold” and ”Hot” on the table 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).

#### HINT:

If the resistance is not as specified, replace the crank position sensor No. 1.

2004 COROLLA (RM1037U)

### 3. CRANK POSITION SENSOR

- (a) Using an ohmmeter, measure the resistance between terminals.

**RESISTANCE:**

At cold 1,630 – 2,740  $\Omega$

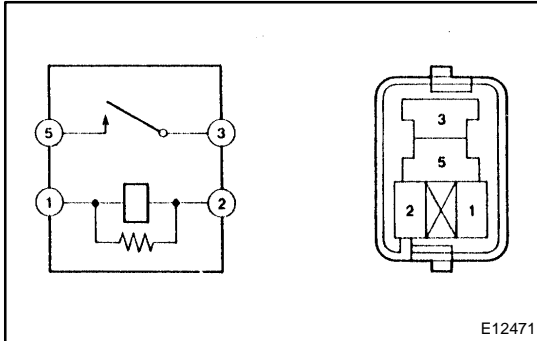
At hot 2,065 – 3,225  $\Omega$

**NOTICE:**

"Cold" and "Hot" on the table express the temperature of the coils themselves. "Cold" is from  $-10^{\circ}\text{C}$  ( $14^{\circ}\text{F}$ ) to  $50^{\circ}\text{C}$  ( $122^{\circ}\text{F}$ ) and "Hot" is from  $50^{\circ}\text{C}$  ( $122^{\circ}\text{F}$ ) to  $100^{\circ}\text{C}$  ( $212^{\circ}\text{F}$ ).

**HINT:**

If the resistance is not as specified, replace the crank position sensor.



### 4. IGNITION RELAY

- (a) Continuity inspection.

- (1) Using an ohmmeter, check that continuity exists between each terminal.

**Specified condition:**

**Between terminal 1 and 2 Continuity**

**Between terminal 3 and 5 No continuity**

- (2) Using an ohmmeter, check that continuity exists between terminals 3 and 5 when the battery voltage is applied across terminals 1 and 2.