IGNITION

PREPARATION ..... IG– 2
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PREPARATION

RECOMMENDED TOOLS

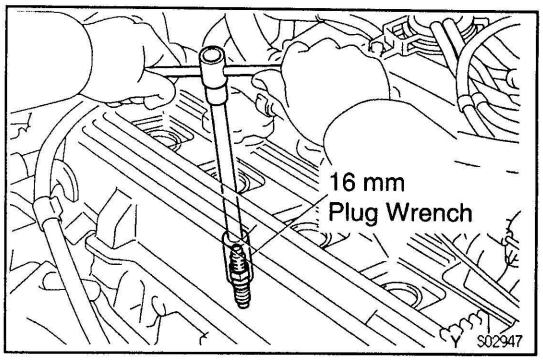
IG01D–0M

	09045–38162 Spark Plug Wrench .	

EQUIPMENT

IG01E–0J

Megger insulation resistance meter	Spark plug
Spark plug cleaner	



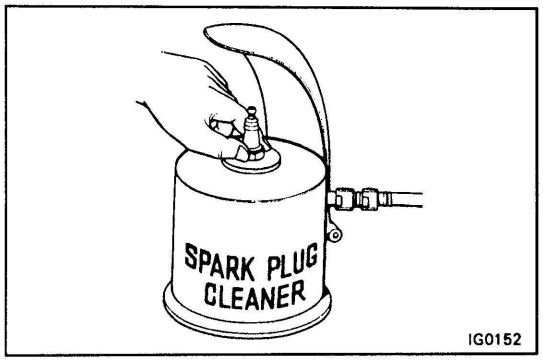
ON–VEHICLE INSPECTION

SPARK PLUGS INSPECTION

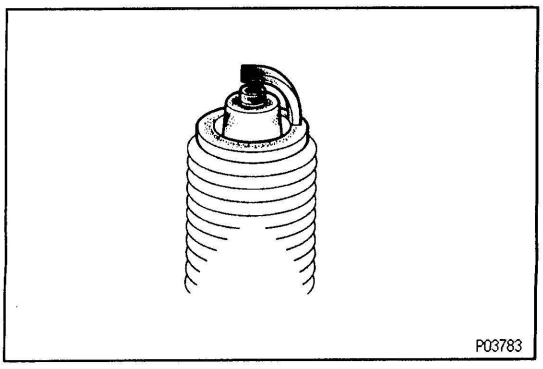
IG0PH–01

Conventional Tipped Type:

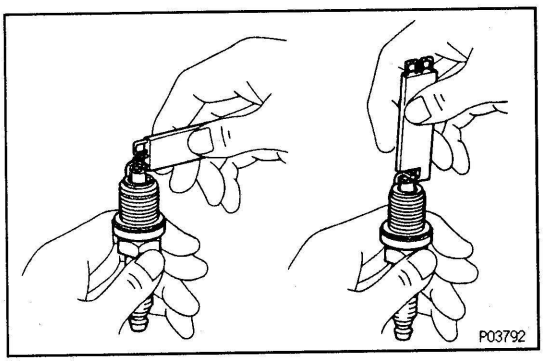
1. **DISCONNECT HIGH–TENSION CORDS FROM SPARK PLUGS**
2. **REMOVE SPARK PLUGS**
   Using a 16 mm plug wrench, remove the 4 spark plugs.



3. **CLEAN SPARK PLUGS**
   Using a spark plug cleaner or wire brush, clean the spark plug.



4. **VISUALLY INSPECT SPARK PLUGS**
   Check the spark plug for electrode wear, thread damage and insulator damage.
   If abnormal, replace the spark plug.
   Recommended spark plug:
   ND: K20R–U11
   NGK: BKR6EYA11



5. ADJUST ELECTRODE GAP

Carefully bend the outer electrode to obtain the correct electrode gap.

Electrode gap:

1.1 mm (0.043 in.)

6. REINSTALL SPARK PLUGS

Using a 16 mm plug wrench, install the 4 spark plugs.

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

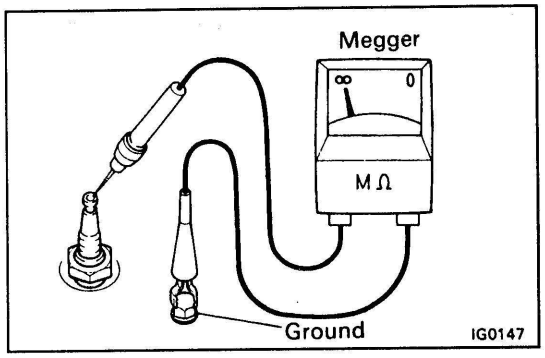
7. RECONNECT HIGH–TENSION CORDS TO SPARK PLUGS

Platinum Tipped Type:

NOTICE:

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

1. DISCONNECT HIGH–TENSION CORDS FROM SPARK PLUG



2. INSPECT ELECTRODE

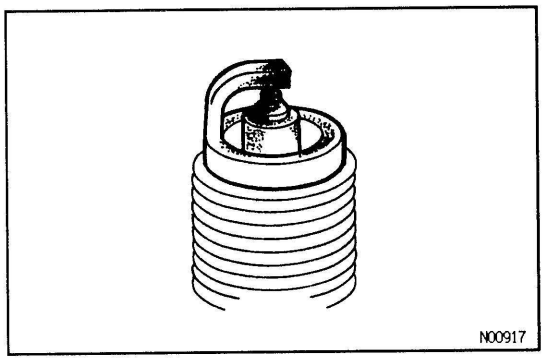
Using a megger (insulation resistance meter), measure the insulation resistance.

Standard correct insulation resistance:

10 MΩ or more

If the resistance is less than specified, proceed to step 4.

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



Simple Method:

(a) Quickly race the engine to 4,000 rpm 5 times.

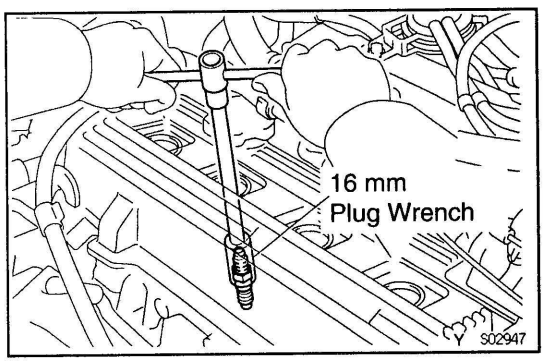
(b) Remove the spark plug. (See step 3)

(c) Visually check the spark plug.

If the electrode is dry ... OK

If the electrode is wet ... Proceed to step 4

(d) Reinstall the spark plug. (See step 7)



3. REMOVE SPARK PLUGS

Using a 16 mm plug wrench, remove the 4 spark plugs.

4. VISUALLY INSPECT SPARK PLUGS

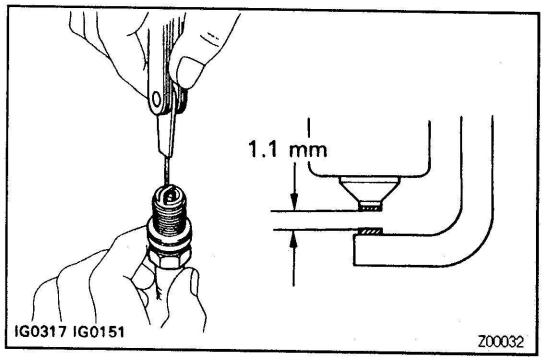
Check the spark plug for thread damage and insulator damage.

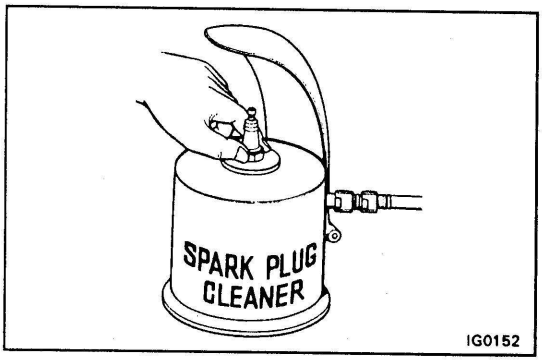
If abnormal, replace the spark plug.

Recommended spark plug:

ND: PK20R11

NGK: BKR6EP11





5. INSPECT ELECTRODE GAP

Maximum electrode gap for used spark plug:

1.3 mm (0.051 in.)

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

Correct electrode gap for new spark plug:

1.1 mm (0.043 in.)

NOTICE: If adjusting the gap of a new spark plug, bend only the base of the ground electrode. Do not touch the tip. Never attempt to adjust the gap on the used plug.

6. 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 588 kPa (6 kgf/cm², 85 psi)

Duration: 20 seconds or less

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

7. REINSTALL SPARK PLUGS

Using a 16 mm plug wrench, install the 4 spark plugs.

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

8. RECONNECT HIGH–TENSION CORDS TO SPARK PLUGS

SERVICE SPECIFICATIONS

SERVICE DATA

IG016-0G

Ignition timing	w/ Terminals TE1 and E1 connected		10° BTDC @ idle
Firing order	–		1 – 3 – 4 – 2
High–tension cord	Resistance	Limit	25 kΩ per cord
Spark plug (Conventional tipped type)	Recommended spark plug	ND	K20R–U11
		NGK	BKR6EYA11
	Electrode gap		1.1 mm (0.043 in.)
Spark plug (Platinum tipped type)	Recommended spark plug	ND	PK20R11
		NGK	BKR6EP11
	Correct electrode gap for new spark plug		1.1 mm (0.043 in.)
	Maximum electrode gap for used spark plug		1.3 mm (0.051 in.)
Ignition coil	Primary coil resistance	at cold	0.36 – 0.55 Ω
		at hot	0.45 – 0.65 Ω
	Secondary coil resistance	at cold	9.0 – 15.4 kΩ
		at hot	11.4 – 18.1 kΩ
Distributor	Air gap		0.2 – 0.4 mm (0.008 – 0.016 in.)
	Pickup coil resistance	at cold G⊕ – G⊖	185 – 275 Ω
		NE⊕ – NE⊖	370 – 550 Ω
		at hot G⊕ – G⊖	240 – 325 Ω
		NE⊕ – NE⊖	475 – 650 Ω

IG017-0K

TORQUE SPECIFICATIONS

Part tightened	N·m	kgf·cm	ft·lbf
Spark plug x Cylinder head	18	180	13
Distributor x Cylinder head	19	195	14