

- 6) Re-insert the tools disconnected in step 3) into plug hole, and set them again over the spark plug.
- 7) Set extension and ratchet in turn onto the connected tools in plug hole, and tighten spark plug to the specified torque.

**Tightening torque (spark plug):**

**$20.6 \pm 2.9 \text{ N}\cdot\text{m}$  ( $2.10 \pm 0.30 \text{ kg}\cdot\text{m}$ ,  $15.19 \pm 2.14 \text{ ft}\cdot\text{lb}$ )**

**CAUTION:**

The above torque should be only applied to new spark plugs without oil on their threads.

In case their threads are lubricated, the torque should be reduced by approximately 1/3 of the specified torque in order to avoid over-stressing.

- 8) The subsequent procedures are in reverse order of #1 spark plug removal. <Ref. to 6-1 [W3E1].>

## 2. #2 SPARK PLUG

**CAUTION:**

When installing spark plug, cover the ATF cooling pipes with a rag to prevent damage.

- 1) Carry out steps 1), 2), 3), 4), 6) and 7) of #1 spark plug installation procedure. <Ref. to 6-1 [W3F1].>
- 2) Proceed in reverse order of #2 spark plug removal. <Ref. to 6-1 [W3E2].>

## 3. #3 SPARK PLUG

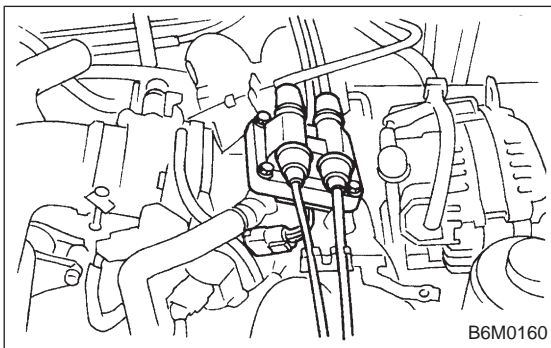
- 1) Carry out steps 1) through 7) of #1 spark plug installation procedure. <Ref. to 6-1 [W3F1].>
- 2) Proceed in reverse order of #3 spark plug removal. <Ref. to 6-1 [W3E3].>

## 4. #4 SPARK PLUG

**CAUTION:**

When installing spark plug, cover the ATF cooling pipes with a rag to prevent damage.

- 1) Carry out steps 1), 2), 3), 4), 6) and 7) of #1 spark plug installation procedure. <Ref. to 6-1 [W3F1].>
- 2) Proceed in reverse order of #4 spark plug removal. <Ref. to 6-1 [W3E4].>



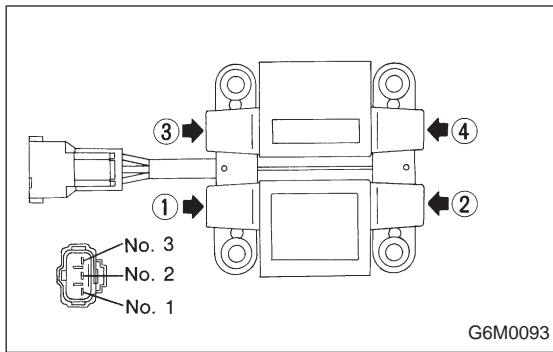
## 4. Ignition Coil

### A: REMOVAL AND INSTALLATION

- 1) Disconnect battery ground cable.
- 2) Disconnect connector from ignition coil.
- 3) Remove ignition coil.
- 4) Installation is in the reverse order of removal.

**CAUTION:**

Be sure to connect wires to their proper positions. Failure to do so will damage unit.



**B: INSPECTION**

Using accurate tester, inspect the following items, and replace if defective.

- 1) Primary resistance
- 2) Secondary coil resistance

**CAUTION:**

If the resistance is extremely low, this indicates the presence of a short-circuit.

**Specified resistance:**

**[Primary side]**

**Between ① and ②**

**Between ③ and ④**

**0.69 Ω±10%**

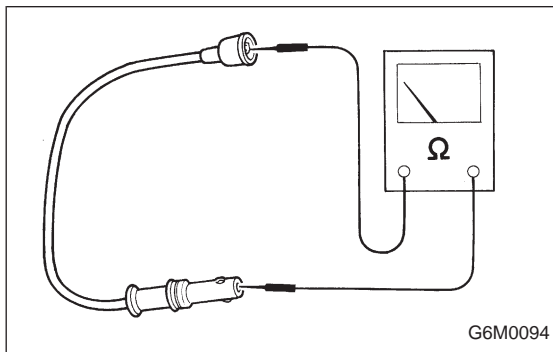
**[Secondary side]**

**Between terminal No. 1 and No. 2**

**Between terminal No. 2 and No. 3**

**21.0 kΩ±15%**

- 3) Insulation between primary terminal and case: 10 MΩ or more.



**5. Spark Plug Cord**

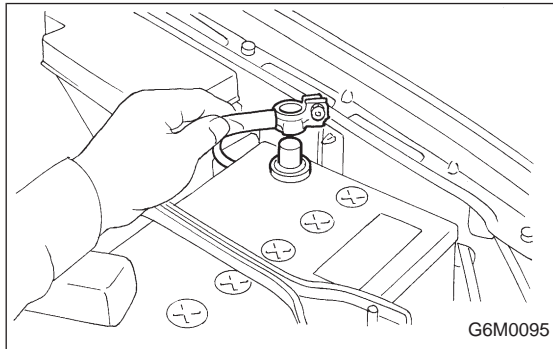
**A: INSPECTION**

Check for:

- 1) Damage to cords, deformation, burning or rust formation of terminals
- 2) Resistance values of cords

**Resistance value:**

**5.12 — 12.34 kΩ**



**6. Ignitor**

**A: REMOVAL AND INSTALLATION**

- 1) Disconnect battery ground cable.
- 2) Disconnect connector from ignitor.
- 3) Remove screws which hold ignitor onto body.
- 4) Installation is in the reverse order of removal.

