100DB–02

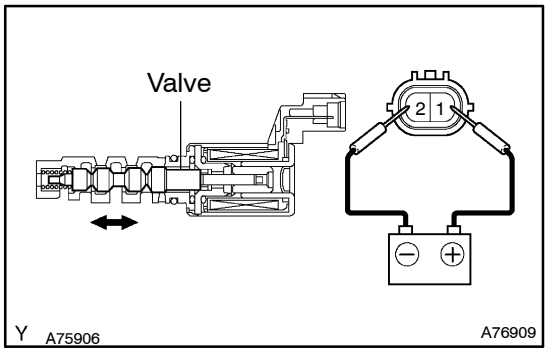
INSPECTION

1. INSPECT CAMSHAFT TIMING OIL CONTROL VALVE ASSY

(a) Resistance inspection.

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

Resistance: 6.9 to 7.9 Ω at 20°C (68°F)



(b) Movement inspection.

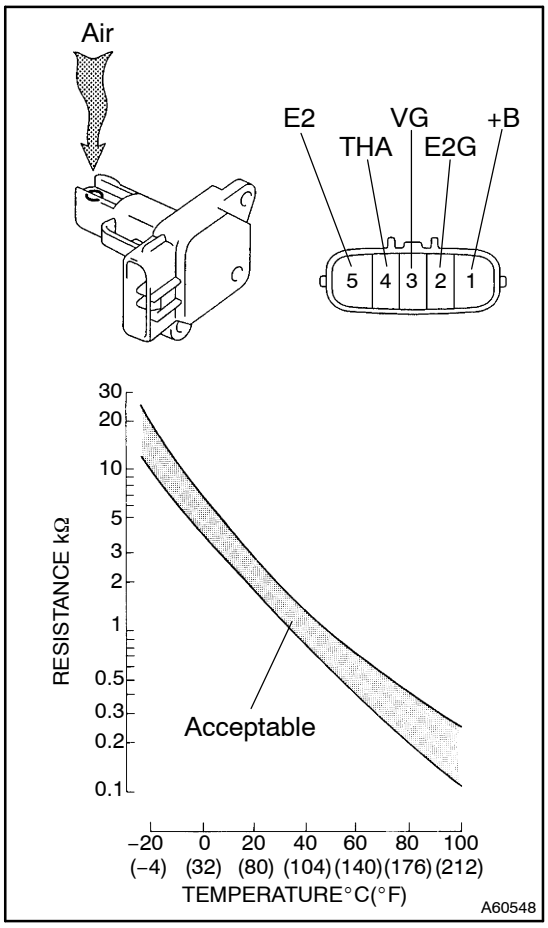
(1) Connect the positive (+) lead from the battery to terminal 1 and negative (–) lead to terminal 2, and check the movement of the valve.

NOTICE:

Confirm the valve moves freely and does not stick in any position.

HINT:

Foreign object in the oil can cause the subtle pressure leaks in the valve. The can to advance. This condition will set a DTC.



2. INSPECT MASS AIR FLOW METER

(a) Output voltage inspection.

(1) Apply battery voltage across terminals 1 (+B) and 2 (E2G).

(2) Connect the positive (+) tester prove to terminal 3 (VG) and negative (–) tester prove to terminal 2 (E2G).

(3) Blow air into the MAF meter, and check if the voltage output fluctuates.

(b) Resistance inspection.

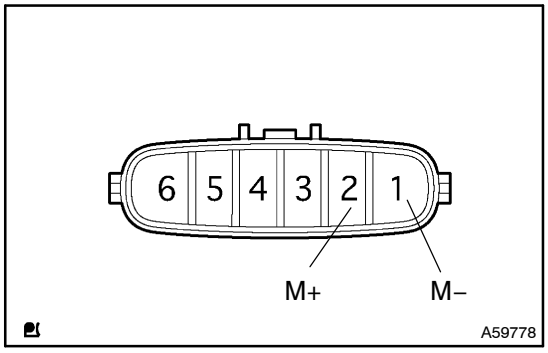
(1) Using an ohmmeter, measure the resistance between terminals 4 (THA) and 5 (E2).

Resistance:

13.6 to 18.4 kΩ at –20°C (–4°F)

2.21 to 2.69 kΩ at 20°C (68°F)

0.49 to 0.67 kΩ at 60°C (140°F)

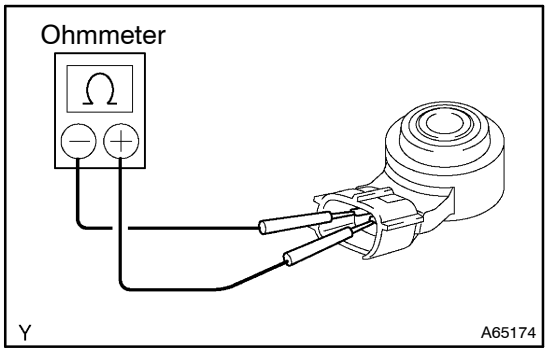


3. INSPECT THROTTLE W/MOTOR BODY ASSY

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

Resistance:

Terminal No.	Resistance
2(M+) – 1(M–)	0.3 to 100 Ω at 20 °C (68 °F)



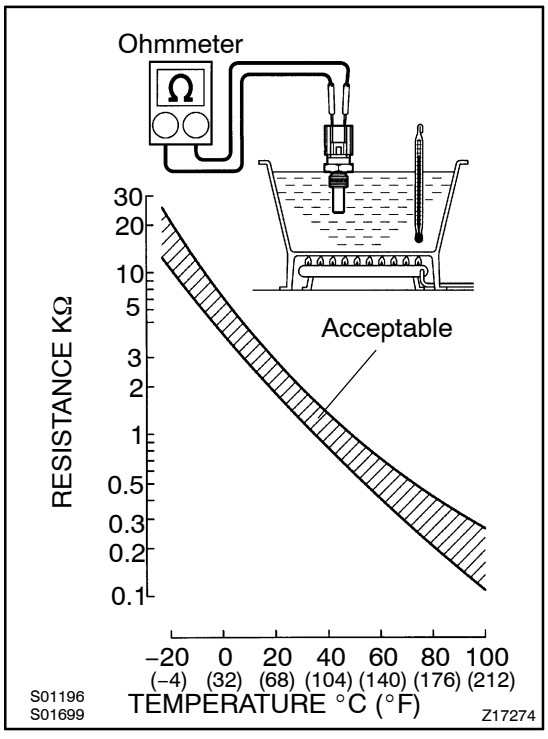
4. INSPECT KNOCK SENSOR

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

Resistance: 120 to 280 kΩ at 20 °C (68 °F)

HINT:

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



5. INSPECT ENGINE COOLANT TEMPERATURE SENSOR

(a) Resistance inspection.

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

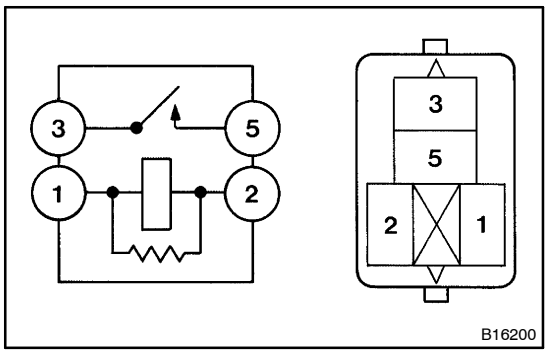
Resistance:

2.32 to 2.59 kΩ at 20 °C (68 °F)

0.310 to 0.326 kΩ at 80 °C (176 °F)

NOTICE:

When inspecting the water temperature sensor in water, prevent water flow into the terminals. After inspection, wipe the water off from the sensor.



6. INSPECT CIRCUIT OPENING RELAY

(a) Continuity inspection.

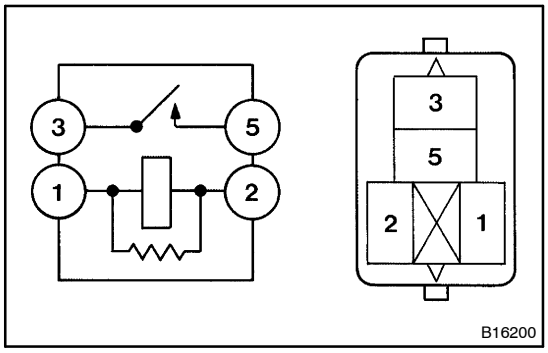
(1) Using an ohmmeter, check for continuity between each terminal.

Specified condition:

Terminal No.	Specified condition
1 – 2	Continuity
3 – 5	No continuity
3 – 5	Continuity (Apply battery voltage terminal 1 and 2)

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

Specified condition: Continuity



7. INSPECT EFI RELAY

(a) Continuity inspection.

(1) Using an ohmmeter, check for continuity between each terminal.

Specified condition:

Terminal No.	Specified condition
1 – 2	Continuity
3 – 5	No continuity
3 – 5	Continuity (Apply battery voltage terminals 1 and 2)

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

Specified condition: Continuity