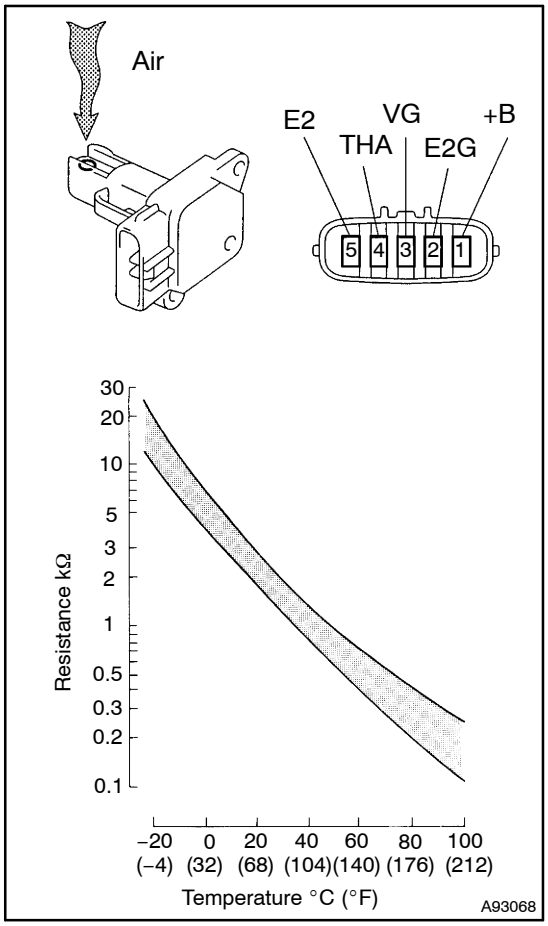
100NT–01

INSPECTION



1. INSPECT MASS AIR FLOW METER

(a) Check the output voltage.

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

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

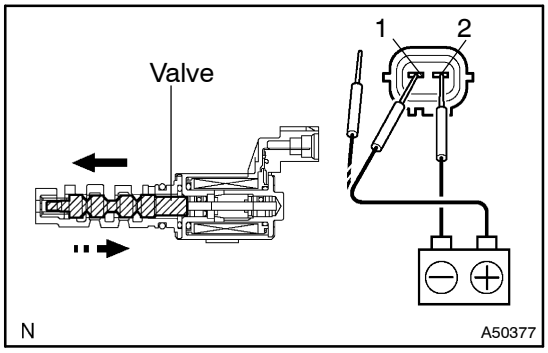
(3) Blow air into the MAF meter, and check that the voltage fluctuates.

(b) Measure the resistance between terminals 4 (THA) and 5 (E2).

Standard:

Condition	Specified Condition
–20°C (–4°F)	13.6 to 18.4 kΩ
20°C (68°F)	2.21 to 2.69 kΩ
60°C (140°F)	0.493 to 0.667 kΩ

If the result is not as specified, replace the MAF meter.



2. INSPECT CAMSHAFT TIMING OIL CONTROL VALVE ASSY

(a) Measure the resistance between the terminals.

Standard: 6.9 to 7.9 Ω at 20°C (68°F)

If the result is not as specified, replace the OCV assy.

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

NOTICE:

Confirm that the valve moves freely and does not become stuck in any position.

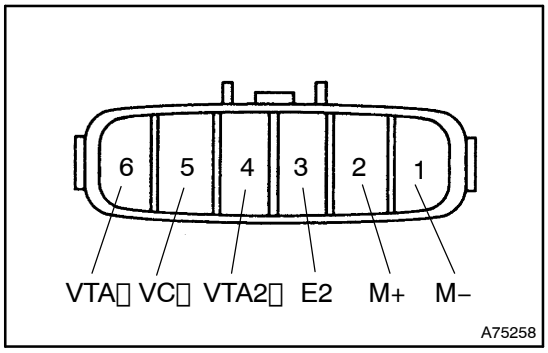
If necessary, replace the OCV assy.

HINT:

If the valve cannot return properly because of foreign matter, a small pressure leak in the advanced direction may occur and a DTC will be output.

3. INSPECT ACCELERATOR PEDAL ROD ASSY

(a) Check the acceletor pedal position sensor (see page 05–67).



4. INSPECT THROTTLE BODY ASSY

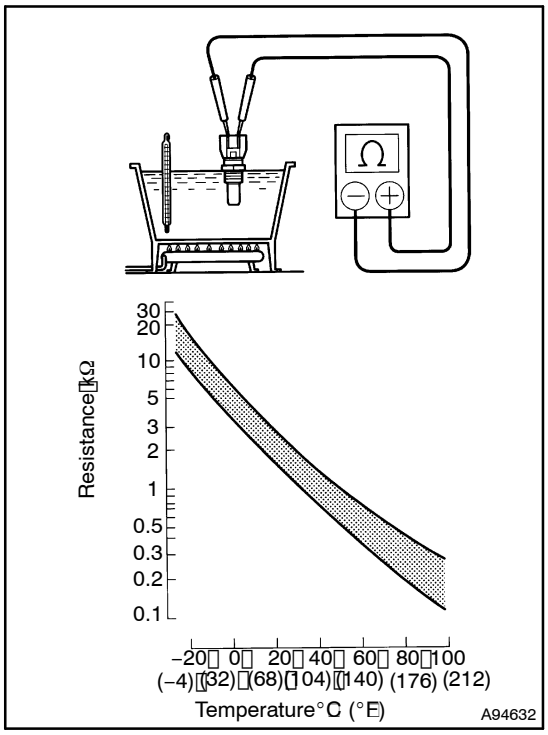
(a) Check the throttle position sensor (see page 05–67).

(b) Check the throttle control motor.

(1) Measure the resistance between the terminals.

Standard: 0.3 to 100 Ω at 20°C (68°F).

If the result is not as specified, replace the throttle body assy.



5. INSPECT ENGINE COOLANT TEMPERATURE SENSOR

(a) Measure the resistance between the terminals.

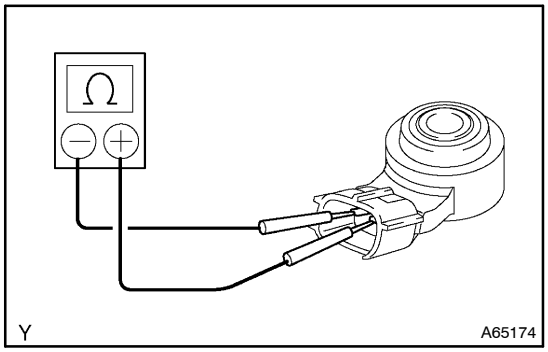
Standard:

Condition	Specified Condition
20°C (68°F)	2.32 to 2.59 kΩ
80°C (176°F)	0.310 to 0.326 kΩ

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

NOTICE:

When checking the ECT sensor in water, keep the terminals dry. After the check, wipe the sensor dry.

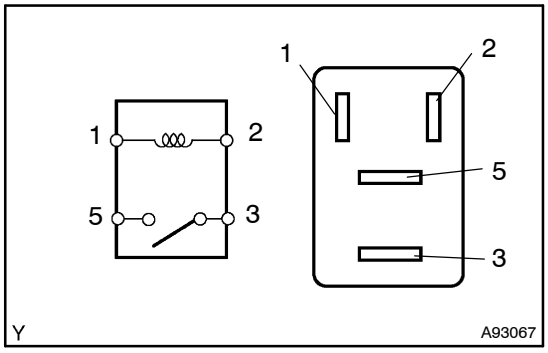


6. INSPECT KNOCK SENSOR

(a) Measure the resistance between the terminals.

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

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



7. INSPECT RELAY(Marking: EFI, A/F, C/OPN)

(a) Remove the EFI relay from the engine room J/B.

(b) Remove the A/F relay from the engine room R/B No. 2.

(c) Remove the circuit opening relay from the R/B sub–assy.

(d) Measure the resistance of the relay.

Standard:

Tester Connection	Specified Condition
3 – 5	10 kΩ or higher
3 – 5	Below 1Ω (when battery voltage is applied to terminals 1 and 2)

If the result is not as specified, replace the relay.