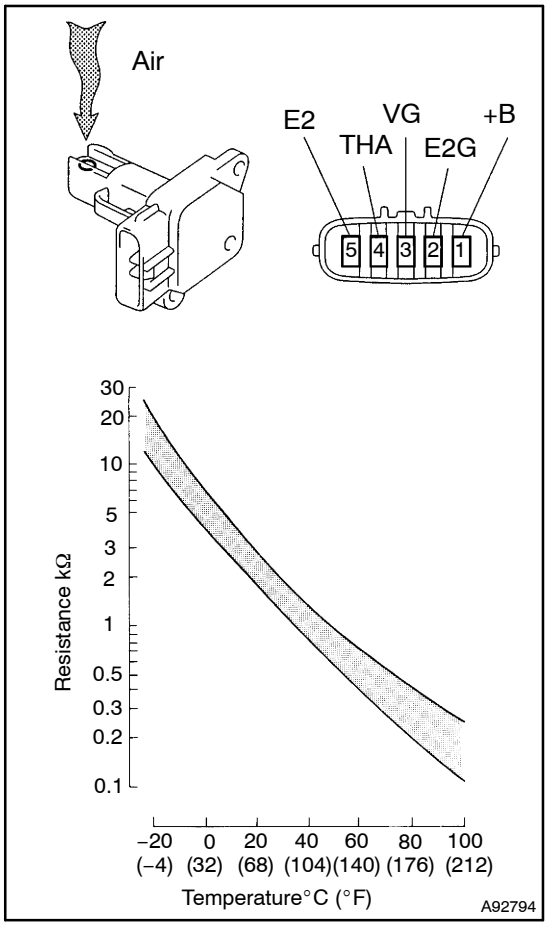
100N1–01

INSPECTION



1. INSPECT MASS AIR FLOW METER

(a) Check the output voltage.

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

(2) Using a voltmeter, connect the positive (+) tester probe to terminal VG, and negative (–) tester probe to terminal E2G.

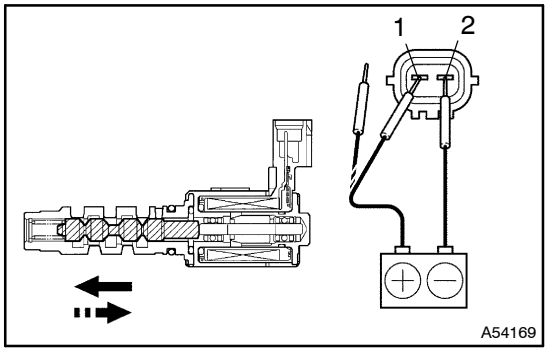
(3) Blow air into the MAF meter, and check that the voltage fluctuates.

(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

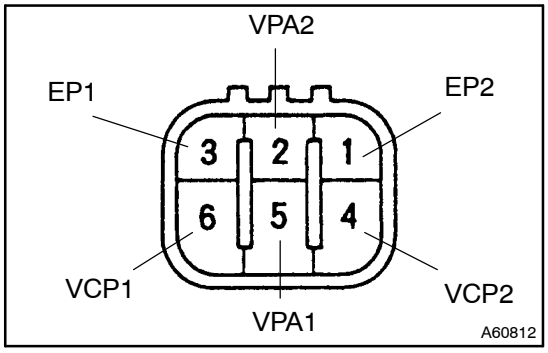
(a) Using an ohmmeter, measure the resistance between the terminals.

Standard: 6.9 to 7.9 Ω at 20°C (68°F)

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

Battery positive voltage is applied	Valve moves in ← direction
Battery positive voltage is cut off	Valve moves in ⇢ direction

If operation is not as specified, replace the valve.



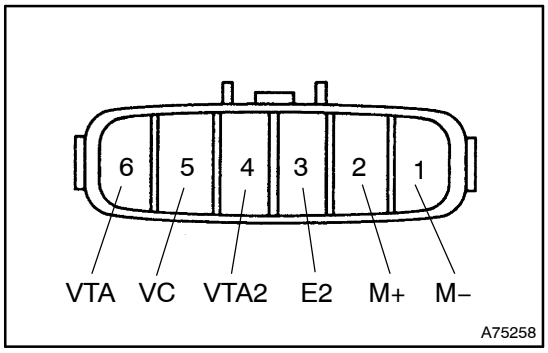
3. INSPECT ACCELERATOR PEDAL ROD ASSY

(a) Measure the resistance between the terminals.

Standard:

Tester Connection	Specified Condition
2 (VPA2) – 3 (EP1)	5.0 kΩ or less
5 (VPA1) – 1 (EP2)	5.0 kΩ or less
6 (VCP1) – 3 (EP1)	1.5 to 6.0 kΩ
4 (VCP2) – 1 (EP2)	1.5 to 6.0 kΩ

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



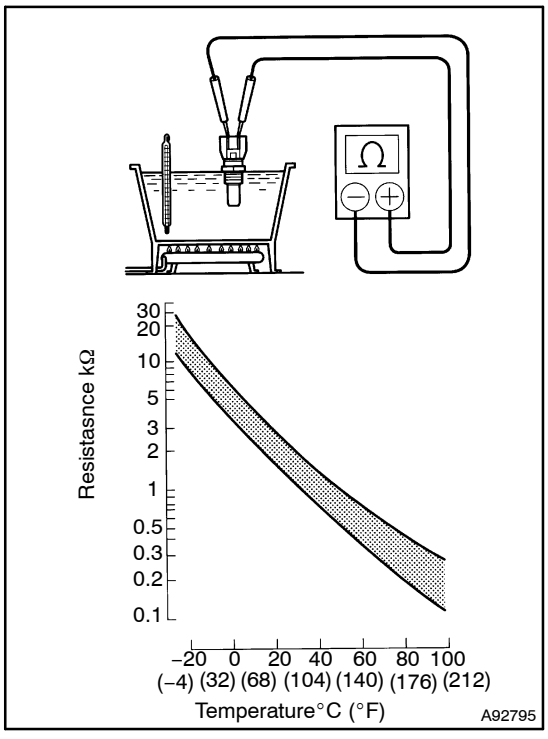
4. INSPECT THROTTLE BODY ASSY

(a) Measure the resistance between the terminals.

Standard:

Tester Connection	Condition	Specified Condition
2 (M+) – 1 (M–)	20°C (68°F)	0.3 to 100 Ω
5 (VC) – 3 (E2)	20°C (68°F)	1.2 to 3.2 kΩ

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



5. INSPECT ENGINE COOLANT TEMPERATURE SENSOR

(a) Measure the resistance between terminals 1 and 2.

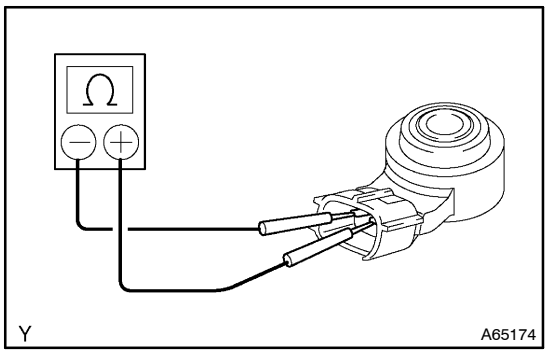
Standard:

Condition	Specified Condition
Approx. 20°C (68°F)	2.32 to 2.59 kΩ
Approx. 80°C (176°F)	0.31 to 0.326 kΩ

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

NOTICE:

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

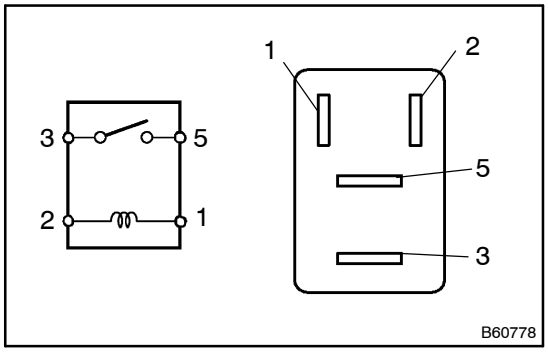


6. INSPECT KNOCK SENSOR

(a) Using an ohmmeter, 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, C/OPN)

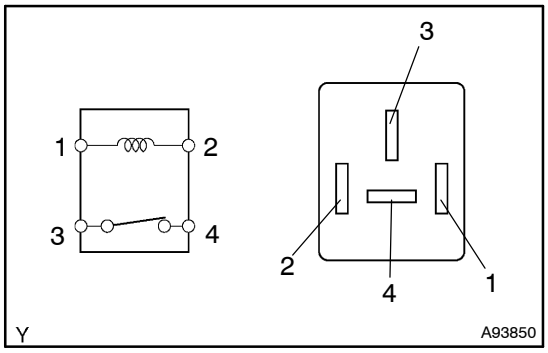
(a) Remove the EFI and C/OPN relays from the engine room R/B.

(b) Measure the resistance of the relay.

Standard:

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

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



8. INSPECT RELAY (Marking: F/PMP)

(a) Remove the F/PMP relay from the engine room R/B.

(b) Measure the resistance of the F/PMP relay.

Standard:

Terminals	Specified Condition
3 – 4	Below 1 Ω
3 – 4	10 kΩ or higher (when battery voltage is applied to terminals 1 and 2)

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