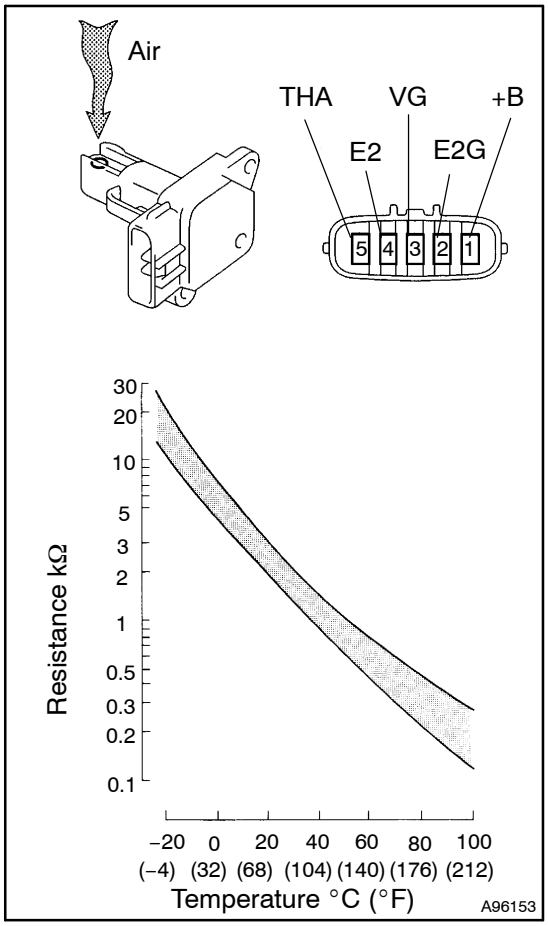
100P7–01

INSPECTION



1. INSPECT MAF 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.

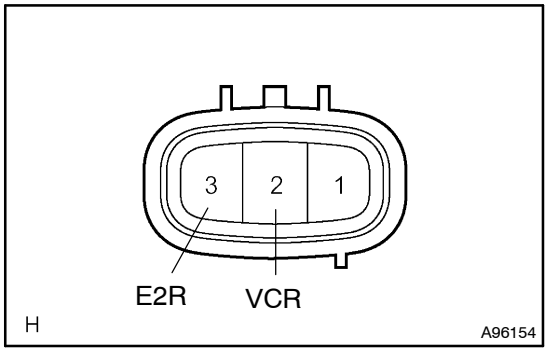
(3) Blow air into the MAF meter, and check that the voltage fluctuates.

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

Standard:

Condition	Specified Condition
–20°C (–4°F)	12.5 to 16.9 kΩ
20°C (68°F)	2.19 to 2.67 kΩ
60°C (140°F)	0.5 to 0.68 kΩ

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



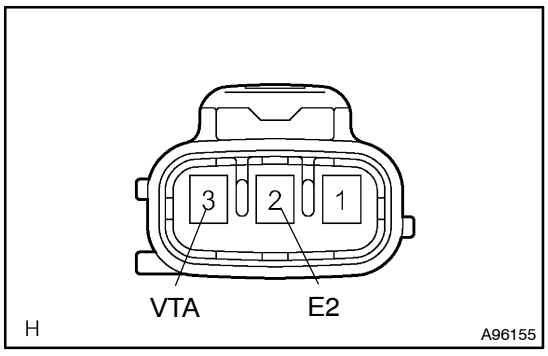
2. INSPECT VENTURI ASSY

(a) Measure the resistance between the terminals.

Standard:

Tester Connection	Condition	Specified Condition
2 (VCR) – 3 (E2R)	20°C (68°F)	2.0 to 10 kΩ

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

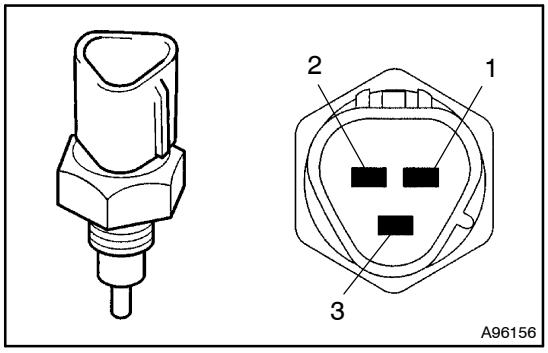


(b) Measure the resistance between the terminals.

Standard:

Tester Connection	Throttle Valve	Specified Condition
3 (VTA) – 2 (E2)	Fully open	0.2 to 5.7 kΩ
3 (VTA) – 2 (E2)	Fully closed	2.0 to 10.2 kΩ

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



3. INSPECT ECT SENSOR

(a) Measure the resistance between each terminals.

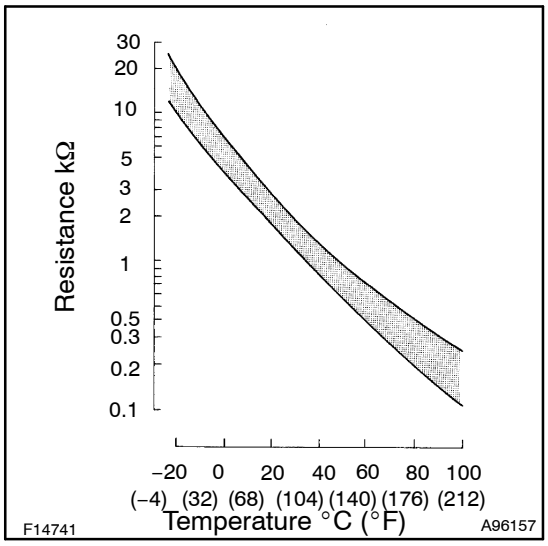
Standard:

Tester Connection	Condition	Specified Condition
1 – 2	Approx. 20°C (68°F)	2.32 to 2.59 kΩ
1 – 2	Approx. 80°C (176°F)	0.31 to 0.326 kΩ
3 – Body ground	Approx. 75°C (67°F)	79 to 93 Ω
3 – Body ground	Approx. 100°C (212°F)	35.5 to 41.5 Ω

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

NOTICE:

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



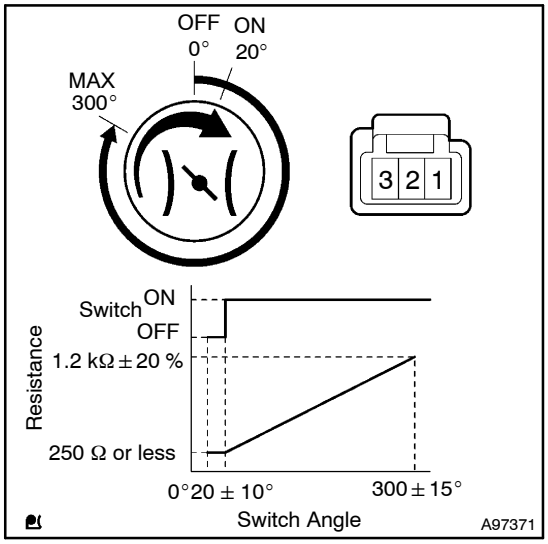
4. INSPECT IAT SENSOR

(a) Measure the resistance between each terminal.

Standard:

Condition	Specified Condition
Approx. 20°C (68°F)	2.21 to 2.65 kΩ
Approx. 60°C (140°F)	0.55 to 0.61 kΩ

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



5. INSPECT IDLE VARIABLE RESISTOR SWITCH

(a) Disconnect the idle variable resistor switch connector.

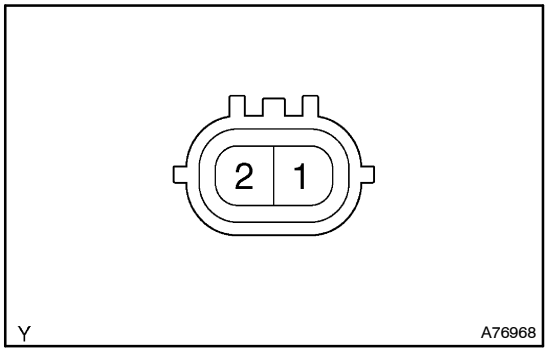
(b) Measure the resistance between the terminals of the switch.

Standard:

Tester Connection	Idle Variable Resistor Switch Condition	Specified Condition
2 – 3	ON	250 Ω
2 – 3	MAX	1.2 kΩ
2 – 3	ON → MAX	Resistance changes costantly

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

6. INSPECT CAMSHAFT POSITION SENSOR (See page 05–111)



7. INSPECT CRANKSHAFT POSITION SENSOR

(a) Measure the resistance between the terminals.

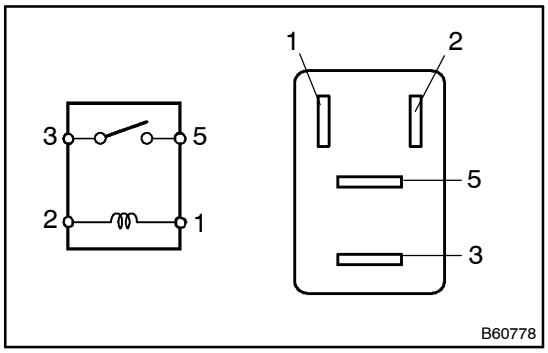
Standard:

Temperature	Specified Condition
Cold	1,630 to 2,740 Ω
Hot	2,065 to 3,225 Ω

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

NOTICE:

"Cold" and "Hot" mean the temperature of the coils themselves."Cold" is from – 10°C (14°F) to 50°C (122°F) and "Hot" is from 50°C (122°F) to 100°C (212°F).



8. INSPECT RELAY (Marking: MAIN, EDU)

(a) Remove the MAIN and EDU relays from the R/B No. 2.

(b) Measure the resistance of the relay.

Standard:

Between terminal	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.