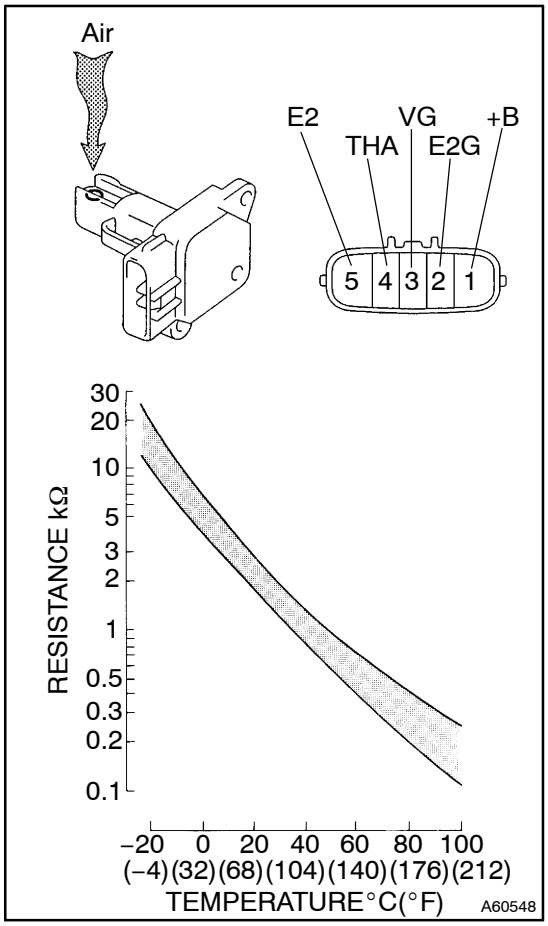
100CB–01

INSPECTION



1. MASS AIR FLOW METER

(a) Output voltage inspection.

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

(2) Using a voltmeter, connect the positive (+) tester prove to terminal 3 (VG), and negative (–) tester prove to terminal 2 (E2G).

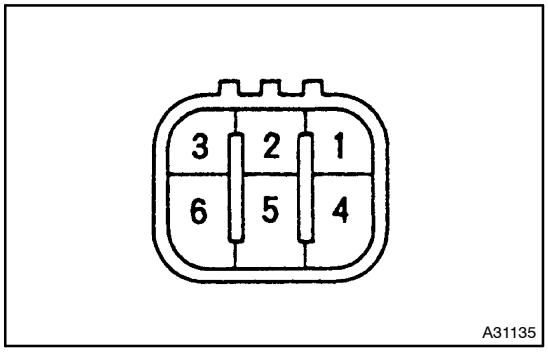
(3) Blow air into the MAF meter, and check that the voltage fluctuates.

(b) Resistance inspection.

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

Resistance:

13.6 – 18.4 kΩ at–20°C (–4°F)
2.21 – 2.69 kΩ at 20°C (68°F)
0.49 – 0.67 kΩ at 60°C (140°F)



2. VENTURI ASSY

(a) Resistance inspection. (Throttle control motor)

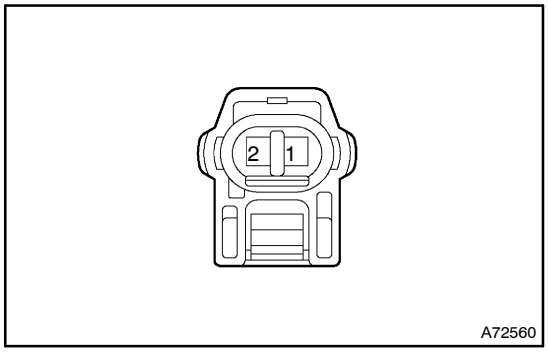
(1) Using an ohmmeter, measure the resistance between each terminals.

Resistance:

Terminals	Temperature	Resistance
2 – 1, 3	Cold	16 – 22 Ω
	Hot	22 – 28 Ω
5 – 4, 6	Cold	16 – 22 Ω
	Hot	22 – 28 Ω

NOTICE:

"Cold" and "Hot" in the following sentence express the temperature of the sensor itself. "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).

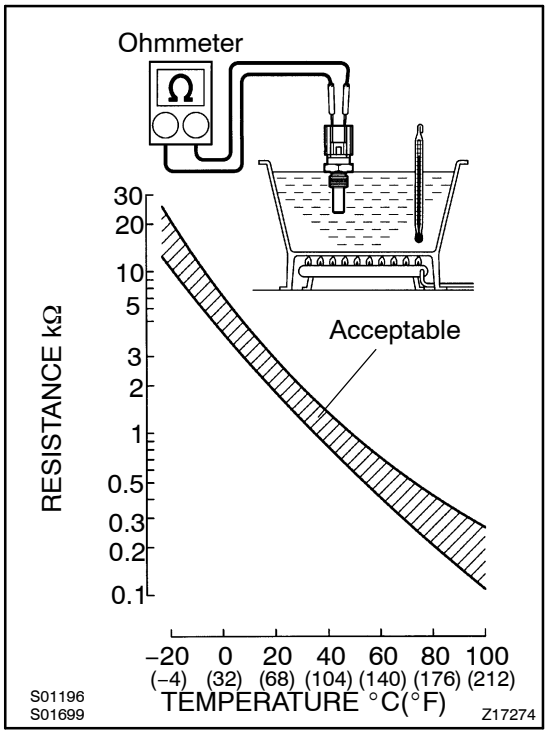


(b) Continuity inspection. (Throttle valve SW)

(1) Using an ohmmeter, check that there is continuity between each terminal.

Specified condition:

Throttle valve	Specified condition
Fully open	Continuity
Fully close	No continuity



3. ENGINE COOLANT TEMPERATURE SENSOR

(a) Resistance inspection.

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

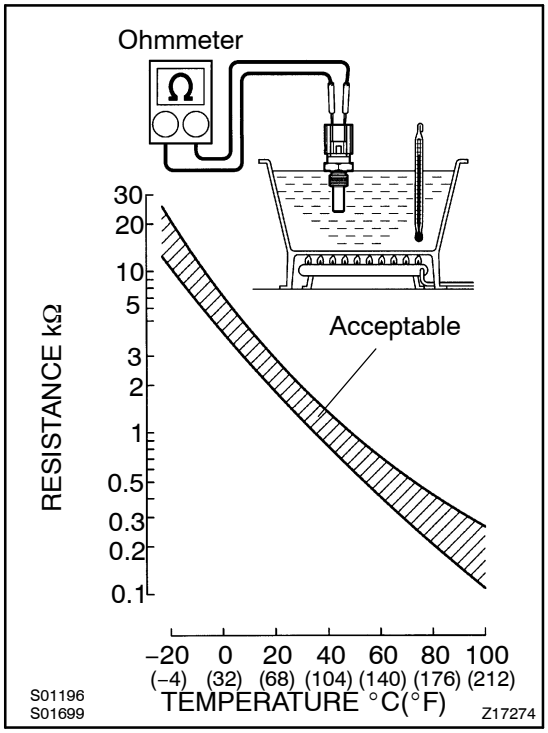
Resistance:

2.21 – 2.69 kΩ at 20 °C (68 °F)

0.287 – 0.349 kΩ at 80 °C (176 °F)

NOTICE:

In case of checking the water temperature sensor in the water, be careful not to allow water to go into the terminals, and after checking, wipe out the sensor.



4. DIESEL TURBO INLET AIR TENPERATURE SENSOR

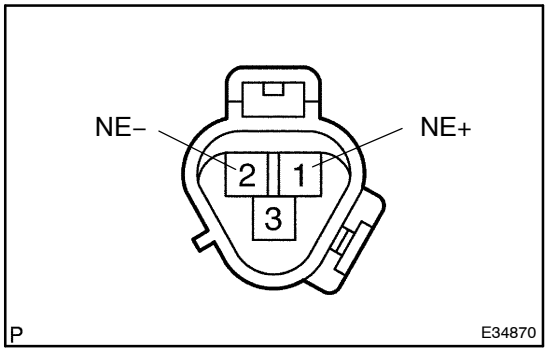
(a) Resistance inspection.

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

Resistance: 2.21 – 2.65 kΩ at 20 °C (68 °F)

NOTICE:

In case of checking the water temperature sensor in the water, be careful not to allow water to go into the terminals, and after checking, wipe out the sensor.



5. CRANKSHAFT POSITION SENSOR

(a) Resistance inspection.

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

Resistance:

1630 – 2740 Ω at cold

2065 – 3225 Ω at hot

NOTICE:

"Cold" and "Hot" in the following sentence express the temperature of the sensor itself. "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).

6. CAMSHAFT POSITION SENSOR

(a) Resistance inspection.

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

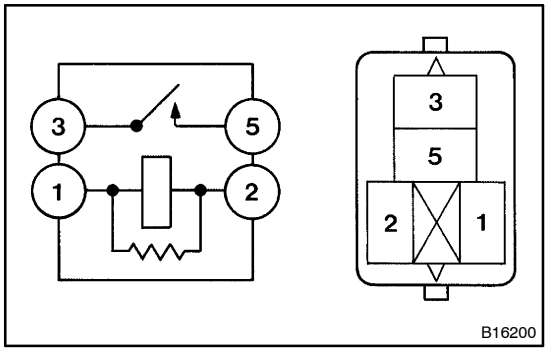
Resistance:

1630 – 2740 Ω at cold

2065 – 3225 Ω at hot

NOTICE:

"Cold" and "Hot" in the following sentence express the temperature of the sensor itself. "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).



7. DIESEL TURBO MAIN RELAY

(a) Continuity inspection.

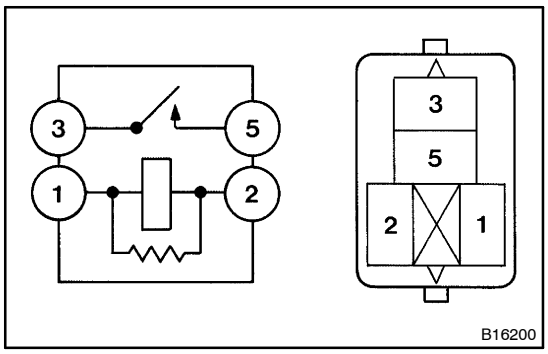
(1) Using an ohmmeter, check that there is continuity between each terminal.

Specified condition:

Between terminal	Specified condition
1 – 2	Continuity
3 – 5	No continuity

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

Specified condition: Continuity



8. DIESEL ECU RELAY

(a) Continuity inspection.

(1) Using an ohmmeter, check that there is continuity between each terminal.

Specified condition:

Between terminal	Specified condition
1 – 2	Continuity
3 – 5	No continuity

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

Specified condition: Continuity