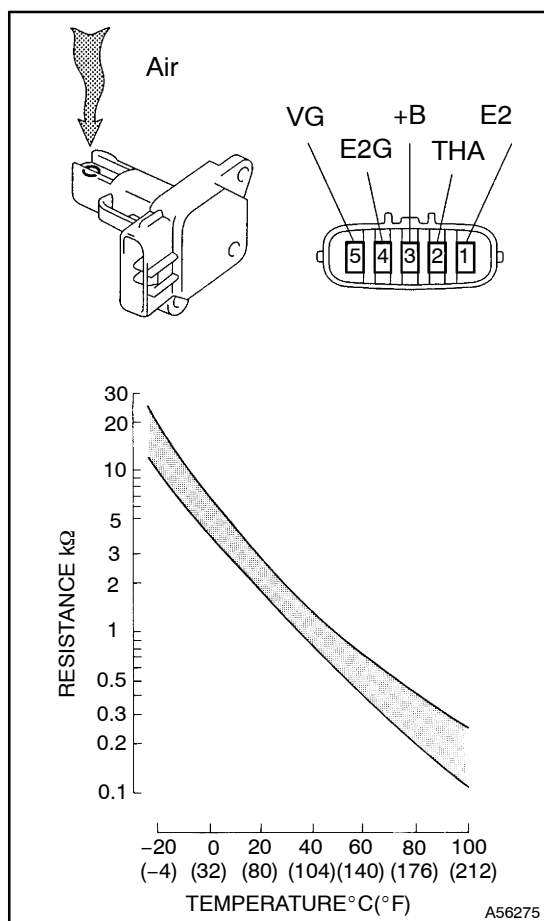


ECD SYSTEM (1CD-FTV)

INSPECTION

1004H-01



1. INTAKE AIR FLOW METER SUB-ASSY

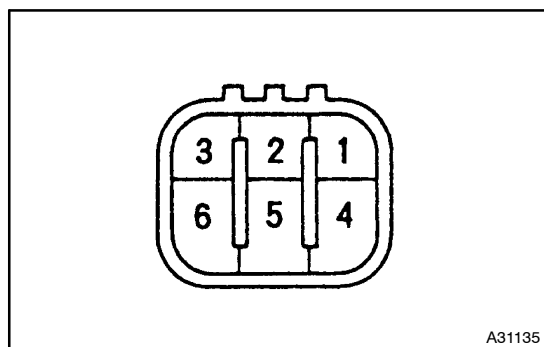
- (a) Output voltage inspection.
 - (1) Apply battery voltage across terminals 3 (+B) and 4 (E2G)
 - (2) Using a voltmeter, connect the positive (+) tester probe to terminal VG, and negative (-) tester probe to terminal E2G.
 - (3) Blow air into the air flow meter, and check that the voltage fluctuates.
- (b) Resistance inspection.
 - (1) Using an ohmmeter, measure the resistance between terminals 2 (THA) and 1 (E2).

Resistance:

-20°C (-4°F) 12.5 – 16.9 kΩ

20°C (68°F) 2.19 – 2.67 kΩ

60°C (140°F) 0.50 – 0.68 kΩ

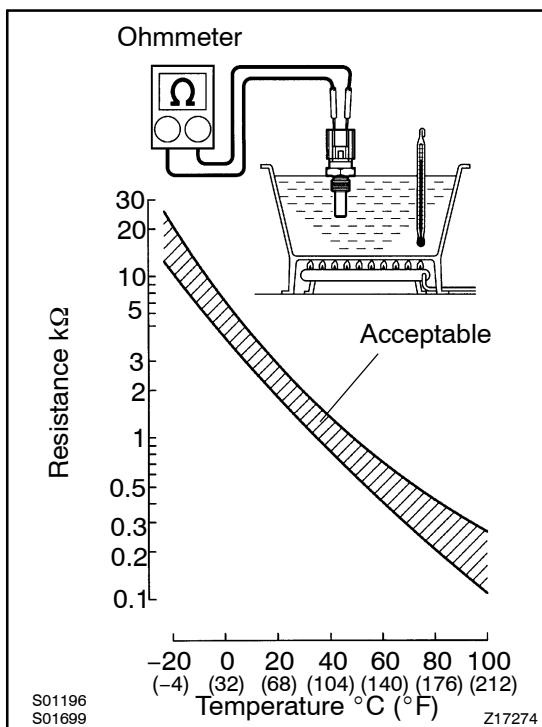


2. INTAKE SHUTTER ASSY

- (a) Resistance inspection (Throttle control motor)
 - (1) Using an ohmmeter, measure the resistance between terminals.

Resistance:

Resistance	Condition	Resistance
2 ⇔ 1, 3	at 20°C (68°F)	18 – 22 Ω
5 ⇔ 4, 6	at 20°C (68°F)	18 – 22 Ω



3. DIESEL ENGINE ENGINE COOLANT TEMPERATURE SENSOR

- (a) Resistance inspection.
(1) Using an ohmmeter, measure the resistance between each terminal.

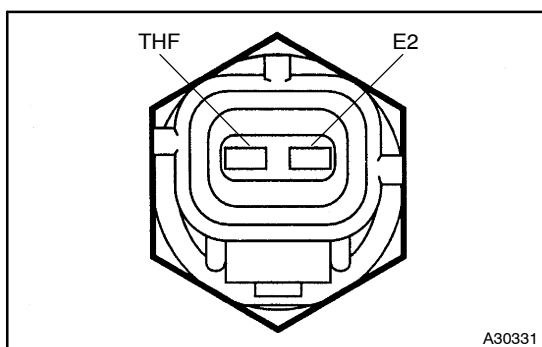
Resistance:

Approx. $20^{\circ}C$ ($68^{\circ}F$) 2.32 – 2.59 $k\Omega$

Approx. $80^{\circ}C$ ($176^{\circ}F$) 0.310 – 0.326 $k\Omega$

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.



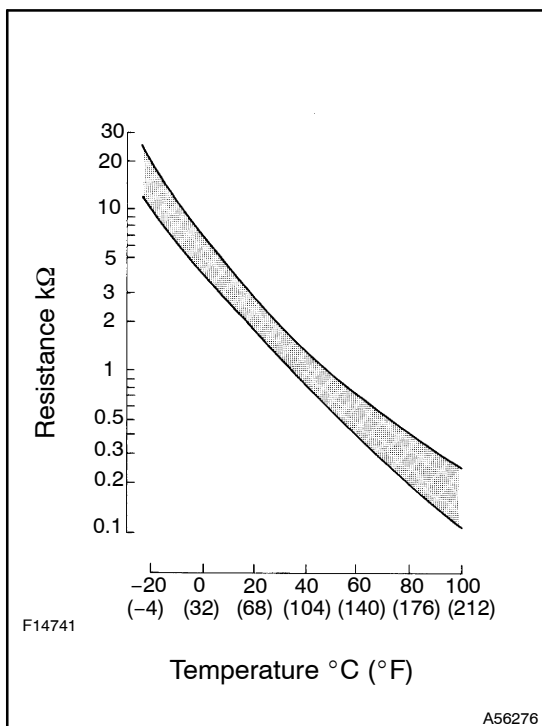
4. INJECTION PUMP ASSY

- (a) Resistance inspection. (Fuel temperature sensor)
(1) Using an ohmmeter, measure the resistance between each terminal.

Resistance:

Approx. $20^{\circ}C$ ($68^{\circ}F$) 2.21 – 2.69 $k\Omega$

Approx. $80^{\circ}C$ ($176^{\circ}F$) 0.287 – 0.349 $k\Omega$

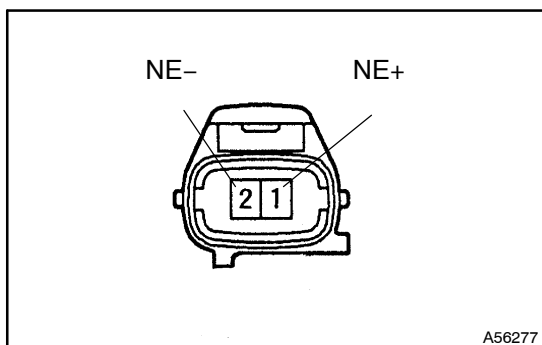


5. DIESEL TURBO INLET AIR TEMPERATURE SENSOR

- (a) Resistance inspection.
(1) Using an ohmmeter, measure the resistance between each terminal.

Resistance:

Approx. $20^{\circ}C$ ($68^{\circ}F$) 2.21 – 2.65 $k\Omega$



6. CRANK POSITION SENSOR

- (a) Resistance inspection.
 (1) Using an ohmmeter, measure the resistance between terminals.

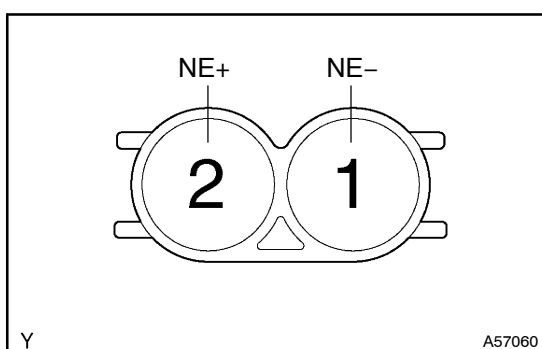
Resistance:

at cold 1630 – 2740 Ω

at hot 2065 – 3225 Ω

NOTICE:

"Cold" and "Hot" in the following sentences 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. CRANK POSITION SENSOR

- (a) Resistance inspection.
 (1) Using an ohmmeter, measure the resistance between terminal.

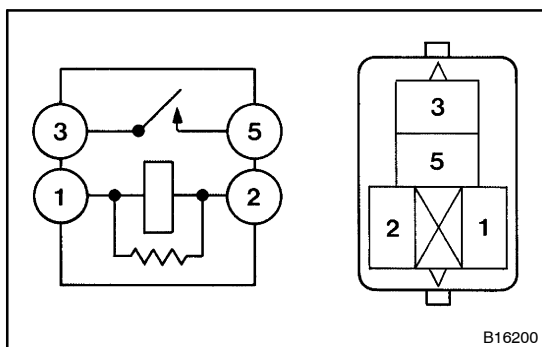
Resistance:

at cold 1630 – 2740 Ω

at hot 2065 – 3225 Ω

NOTICE:

"Cold" and "Hot" in the following sentences 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).



8. INJECTOR DRIVER RELAY

- (a) Inspect the relay continuity.
 (1) Using an ohmmeter, check that there is continuity between terminals 1 and 2.

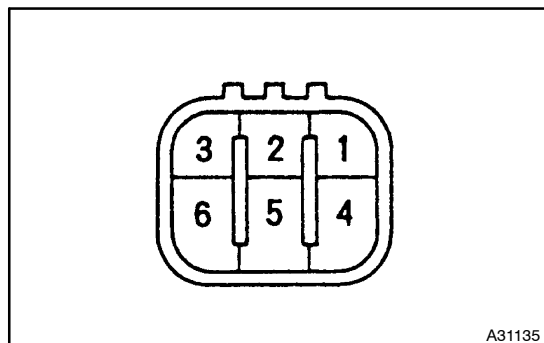
Specified condition: Continuity

- (2) Check that there is no continuity between terminals 3 and 5.

Specified condition: No continuity

- (b) Inspect the relay operation.
 (1) Apply battery voltage across terminals 1 and 2.
 (2) Using an ohmmeter, check that there is continuity between terminals 3 and 5.

Specified condition: Continuity



9. ACCELERATOR PEDAL ASSY

- (a) Inspect the accel position sensor.
 (1) Using an ohmmeter, measure the resistance between each terminal.

Resistance: (RHD)

Tester connection	Resistance
2 (VPA2) ⇔ 1 (EP1)	5.0 kΩ or less
5 (VPA1) ⇔ 3 (EP2)	5.0 kΩ or less
4 (VCP1) ⇔ 1 (EP1)	1.5 – 6.0 kΩ
6 (VCP2) ⇔ 3 (EP2)	1.5 – 6.0 kΩ

Resistance: (LHD)

Tester connection	Resistance
2 (VPA2) ⇔ 3 (EP1)	5.0 kΩ or less
5 (VPA1) ⇔ 1 (EP2)	5.0 kΩ or less
6 (VCP1) ⇔ 3 (EP1)	1.5 – 6.0 kΩ
4 (VCP2) ⇔ 1 (EP2)	1.5 – 6.0 kΩ