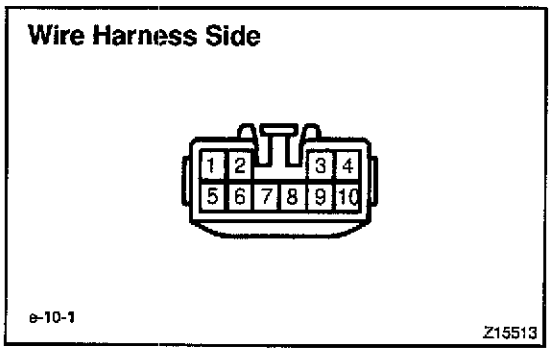
AIR CONDITIONER AMPLIFIER

AC0L2-01

ON–VEHICLE INSPECTION

1. REMOVE GLOVE COMPARTMENT DOOR
(See page BO–70)



2. Except 1RZ, 2RZ–FE and 3RZ–FE Engine Models: INSPECT AMPLIFIER CIRCUIT

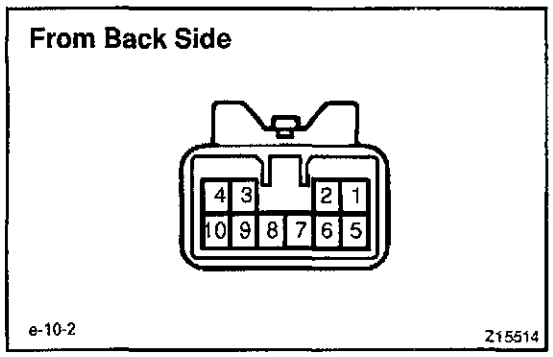
(a) Disconnect the connector from the amplifier and inspect the connector on wire harness side, as shown in the chart below.

Test conditions:

- Ignition switch ON
- Blower speed control switch at "HI" position

Tester connection	Condition	Specified condition
4 – Ground	Constant	Continuity
2 – 10	Evaporator temperature at 25 °C (77 °F)	Approx. 1.5 kΩ
6 – 2 (Boost ventilator with cooler)	Temperature control lever in "COOL" position	Approx. 3.0 kΩ
6 – 2 (Boost ventilator with cooler)	Temperature control lever in "OFF" position	Approx. 0 kΩ
5 – Ground	A/C switch ON	Battery voltage
5 – Ground	A/C switch OFF	No voltage

If the circuit is not as specified, inspect the circuits connected to other parts.



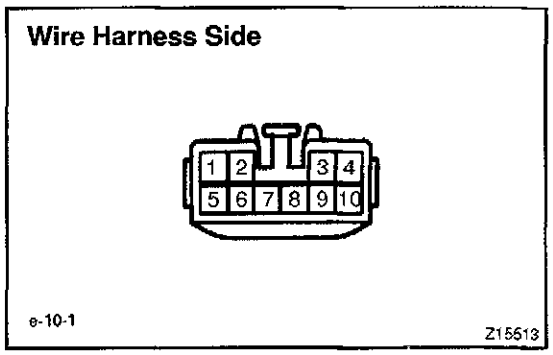
(b) Connect the connector to the amplifier and inspect the wire harness side connector from the back side, as shown in the chart below.

Test conditions:

- Running engine at idle speed
- Blower speed control switch at "HI" position
- Temperature control lever at "COOL" position
- A/C switch ON
- Set on manifold gauge set

Tester connection	Condition	Specified condition
1 – Ground	Refrigerant pressure 196 – 3,140 kPa	Battery voltage
1 – Ground	Refrigerant pressure less than 196 or more than 3,140 kPa	No voltage
8 – Ground	Engine speed at idle speed	Below 1.0 V
8 – Ground	Engine speed at idle–up speed	Battery voltage
9 – Ground	Magnetic clutch engaged	Battery voltage
9 – Ground	Magnetic clutch not engaged	Below 1.0 V

- If circuit is as specified, try to replace the amplifier with a new one.
- If the circuit is not as specified, inspect the circuits connected to other parts.



3. 1RZ, 2RZ–FE and 3RZ–FE Engine Models: INSPECT AMPLIFIER CIRCUIT

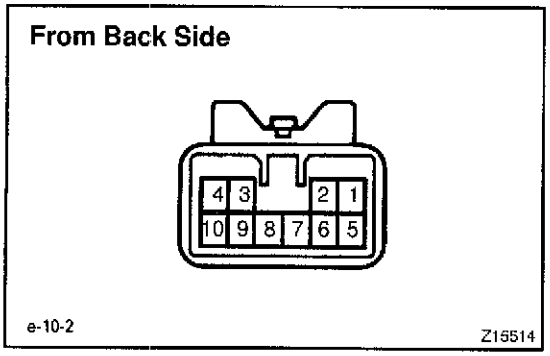
(a) Disconnect the connector from the amplifier and inspect the connector on wire harness side, as shown in the chart below.

Test conditions:

- Ignition switch ON
- Blower speed control switch in "HI" position

Tester connection	Condition	Specified condition
4 – Ground	Constant	Continuity
2 – 10	Evaporator temperature at 25 °C (77 °F)	Approx. 1.5 kΩ
6 – 2 (Boost ventilator with cooler)	Temperature control lever in "COOL" position	Approx. 3.0 kΩ
6 – 2 (Boost ventilator with cooler)	Temperature control lever in "OFF" position	Approx. 0 kΩ
5 – Ground	A/C switch ON	Battery voltage
5 – Ground	A/C switch OFF	No voltage

If the circuit is not as specified, inspect the circuits connected to other parts.



(b) Connect the connector to the amplifier and inspect the wire harness side connector from the back side, as shown in the chart below.

Test conditions:

- Running engine at idle speed
- Blower speed control switch at "HI" position
- Temperature control lever at "COOL" position
- A/C switch ON
- Set on manifold gauge set

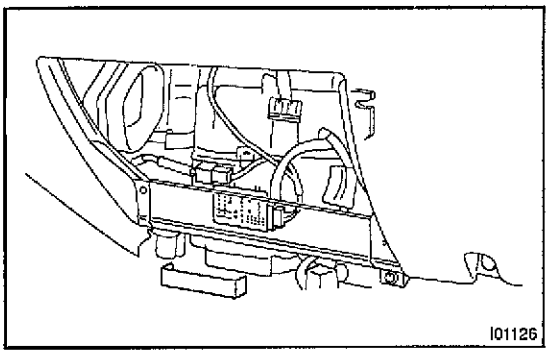
Tester connection	Condition	Specified condition
1 – Ground	Refrigerant pressure 196 – 3,140 kPa	Battery voltage
1 – Ground	Refrigerant pressure less than 196 or more than 3,140 kPa	No voltage
8 – Ground	Engine speed at idle speed	Below 1.0 V
8 – Ground	Engine speed at idle–up speed	Battery voltage
9 – Ground	Magnetic clutch engaged	Battery voltage
9 – Ground	Magnetic clutch not engaged	Below 1.0 V

- If circuit is as specified, try to replace the amplifier with a new one.
- If the circuit is not as specified, inspect the circuits connected to other parts.

AC0L3-01

REMOVAL

1. **REMOVE GLOVE COMPARTMENT DOOR**
(See page BO–70)



2. **REMOVE A/C AMPLIFIER**

(a) Disconnect the connector.

(b) Pry out the amplifier cover and pull out the amplifier.

AC0L4-01

INSTALLATION

Installation is in the reverse order of removal (See page AC–96).