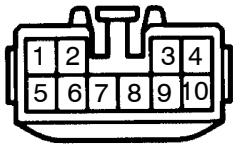
Wire Harness Side



Z11344

AIR CONDITIONER AMPLIFIER

AC3N0–01

ON–VEHICLE INSPECTION

INSPECT AMPLIFIER CIRCUIT

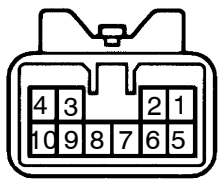
(a) Disconnect the amplifier connector.

(b) Inspect the connector on the wire harness side as shown in the table below.

Tester connection	Condition	Specified condition
2 – 6	Temperature control lever at MAX. COOL	Approx. 0 Ω
2 – 6	Temperature control lever at OFF	Approx. 3.0 kΩ
2 – 10	Evaporator temperature at 25˚C (77˚F)	Approx. 1.5 kΩ
3 – Engine ECU terminal ACT (Except 15B–FTE)	Constant	Continuity
8 – Engine ECU terminal AC1 (Except 15B–FTE)	Constant	Continuity
4 – Ground	Constant	Continuity
5 – Ground	Ignition switch ON, A/C switch ON	Battery voltage
5 – Ground	Ignition switch ON, A/C switch ON	No voltage
7 – Ground	Ignition switch ON	Battery voltage
7 – Ground	Ignition switch OFF	No voltage

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

From Back Side



e-10-2

Z15514

(c) Connect the connector to the amplifier and inspect the wire harness side connector from the back side, as shown in the table below.
Test conditions:
- Running engine at idle speed
- A/C switch ON
- Temperature damper control dial at ”MAX. COOL” position
- Blower switch at ”HI” position
- Set on manifold gauge set

Tester connection	Condition	Specified condition
1 – Ground	Refrigerant pressure between 196kPa (2.0 kgf/cm^2, 28 psi) – 3,140 kPa (32.0 kgf/cm^2, 455 psi)	Battery voltage
1 – Ground	Refrigerant pressure less than 196 kPa (2.0 kgf/cm^2, 28 psi) or more than 3,140 kPa (32.0 kgf/cm^2, 455 psi)	No voltage
9 – Ground	Magnetic clutch is engaged	Battery voltage
9 – Ground	Magnetic clutch is not engaged	No voltage

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