

AIR CONDITIONER AMPLIFIER (for Rear A/C)

ON-VEHICLE INSPECTION

AC1UH-01

1. REMOVE THESE PARTS:

- (a) Rear door scuff plate RH
- (b) Rear floor mat support plate
- (c) Quarter trim panel RH
(See [page BO-90](#))

2. Manual A/C:

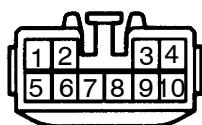
INSPECT REAR A/C AMPLIFIER CIRCUIT

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

Test conditions:

- Turn ignition switch to ON
- Rear blower speed control switch at "HI" position

Wire Harness Side

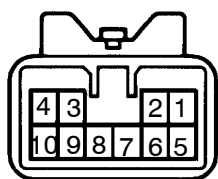


e-10-1

Z15513

Tester connection	Condition	Specified condition
4 – Ground	Constant	Continuity
6 – 2	Rear cooler temperature lever at "MAX. COOL" position	3.0 kΩ
	Rear cooler temperature lever at "MAX. WARM" position	0 kΩ
2 – 10	Rear evaporator temperature at 25 °C (77 °F)	1.5 kΩ
7 – Ground	Constant	Battery voltage
	Turn ignition switch to LOCK or ACC	No voltage

From Back Side



e-10-2

Z15514

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

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

Test conditions:

- Running engine at idle speed
- Rear cooler switch ON
- Rear blower speed control switch at "HI" position
- Rear cooler temperature switch at "MAX. COOL" position

Tester connection	Condition	Specified condition
8 – Ground	Constant	Below 0.7 V
	Rear cooler switch OFF	No voltage

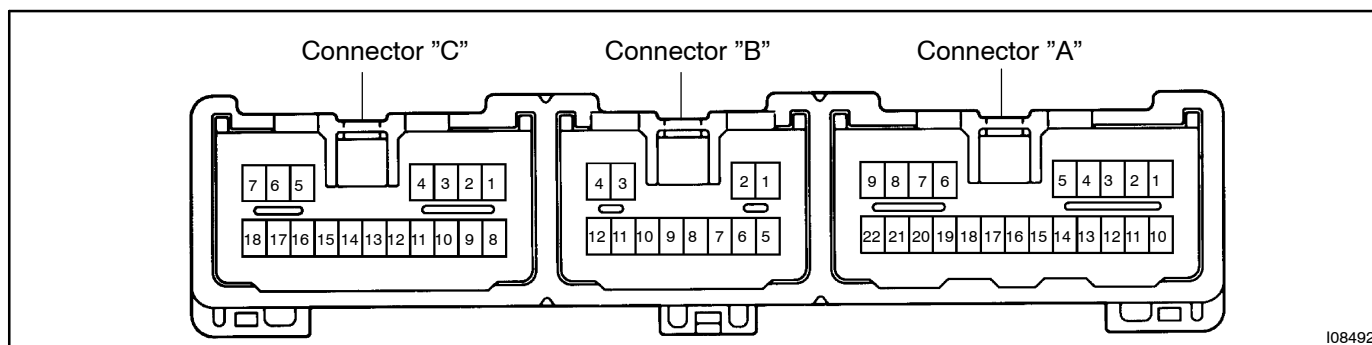
If the circuit is not as specified, inspect the connected to other parts. If the circuits is as specified, try replace the amplifier with a new one.

3. Auto A/C:**INSPECT REAR A/C AMPLIFIER CIRCUIT**

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

Test conditions:

- Turn ignition switch to ON



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Tester connection	Condition	Specified condition
A1 – Ground	Constant	Battery voltage
A2 – Ground	Constant	Battery voltage
	Turn ignition switch to OFF	No voltage
A3 – Ground	Rr. heater control at "FACE" and "LO"	Approx. 7.2 V
	Rr. heater control at "FACE" and "ME"	Approx. 4.2 V
	Rr. heater control at "FACE" and "HI"	Approx. 0.5 V
A4 – Ground	Rr. heater control at "FACE" and "OFF"	Below 1.0 V
	Rr. heater control at "FACE" and "LO"	1.5 – 3.0 V
A5 – Ground	Constant	4.5 – 5.5 V
A6 – A9	Rr. temperature control at "MAX. COOL"	4.0 V
	Rr. temperature control at "MAX. WARM"	Below 1.0 V
A7 – A9	Evaporator temperature at 0 °C (32 °F)	2.0 – 2.4 V
	Evaporator temperature at 15 °C (59 °F)	1.9 – 1.8 V
A8 – A9	Rr. heater air inlet temperature at 25 °C (77 °F)	1.5 – 1.9 V
	Rr. heater air inlet temperature at 40 °C (104 °F)	1.2 – 1.6 V
A9 – A22	Constant	Continuity
A11 – Ground	Rr. temperature control at "MAX. WARM"	Below 1.0 V
	Rr. temperature control at "MAX. COOL"	Battery voltage (in 16 seconds)
A12 – Ground	Rr. temperature control at "MAX. COOL"	Below 1.0 V
	Rr. temperature control at "MAX. WARM"	Battery voltage (in 16 seconds)
A13 – Ground	Rr. heater control at "FACE" and OFF	Battery voltage
	Rr. heater control at "FACE" and LO	Below 1.0 V
A14 – Ground	Rr. heater control at "FACE" and OFF	Battery voltage
	Rr. heater control at "FACE" and LO	Below 1.0 V

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A15 – Ground	Rr. heater control at "FOOT" and LO	Approx. 7.2 V
	Rr. heater control at "FOOT" and ME	Approx. 4.2 V
	Rr. heater control at "FOOT" and HI	Approx. 0.5 V
A16 – Ground	Rr. heater control at "FOOT" and OFF	Below 1.0 V
	Rr. heater control at "FOOT" and LO	1.5 – 3.0V
A22 – Ground	Constant	Continuity
B1 – A2	Constant	Continuity
B4 – A5	Constant	Continuity
B5 – A10	Constant	Continuity
B7 – B12	Rr. room temperature at 25 °C (77 °F)	1.8 – 2.2 V
	Rr. room temperature at 40 °C (104 °F)	1.2 – 1.6 V
B8 – B12	Rr. temperature control at "MAX. COOL"	5.0 V
	Rr. temperature control at "MAX. WARM"	No voltage
C1 – C8	Push in "AUTO" switch	Below 1.0 V
	AUTO switch OFF	Battery voltage
C2 – C8	Constant	Battery voltage
	Push in Rr. OFF switch	Below 1.0 V
C3 – C8	Constant	Battery voltage
	Push in Rr. LO switch	Below 1.0 V
C4 – C8	Constant	Battery voltage
	Push in Rr. ME switch	Below 1.0 V
C5 – Ground	Push in except Rr. AUTO switch	Battery voltage
	Push in Rr. AUTO switch	Below 1.0 V
C6 – Ground	Push in except Rr. LO switch	Battery voltage
	Push in LO switch	Below 1.0 V
C7 – Ground	Push in except Rr. ME switch	Battery voltage
	Push in ME switch	Below 1.0 V
C8 – A9	Constant	Continuity
C9 – Ground	Push in Rr. HI switch	Below 1.0 V
	Constant	Battery voltage
C10 – Ground	Constant	Battery voltage
	Push in Rr. FACE switch	Below 1.0 V
C11 – Ground	Constant	Battery voltage
	Push in Rr. B/L switch	Below 1.0 V
C12 – Ground	Constant	Battery voltage
	Push in Rr. FOOT switch	Below 1.0 V
C15 – Ground	Push in except Rr. FACE switch	Battery voltage
	Push in Rr. FACE switch	Below 1.0 V
C16 – Ground	Push in except Rr. B/L switch	Battery voltage
	Push in Rr. B/L switch	Below 1.0 V
C17 – Ground	Push in except Rr. FOOT switch	Battery voltage
	Push in Rr. FOOT switch	Below 1.0 V
C18 – Ground	Push in except Rr. HI switch	Battery voltage
	Push in Rr. HI switch	Below 1.0 V