

AIR CONDITIONER AMPLIFIER (for Rear A/C)

ON-VEHICLE INSPECTION

AC1UH-01

1. REMOVE THESE PARTS:

- Rear door scuff plate RH
- Rear floor mat support plate
- Quarter trim panel RH
(See page BO-90)

2. Manual A/C:

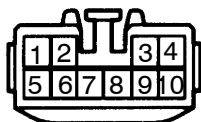
INSPECT REAR A/C AMPLIFIER CIRCUIT

- 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

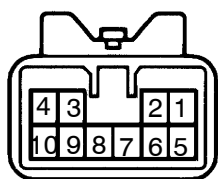


e-10-1

Z15513

| Tester connection | Condition | Specified condition |
|-------------------|---|---------------------|
| 4 – Ground | Constant | Continuity |
| 6 – 2 | Rear cooler temperature lever at "MAX. COOL" position | 3.0 k Ω |
| | Rear cooler temperature lever at "MAX. WARM" position | 0 k Ω |
| 2 – 10 | Rear evaporator temperature at 25 °C (77 °F) | 1.5 k Ω |
| 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.

- 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 |

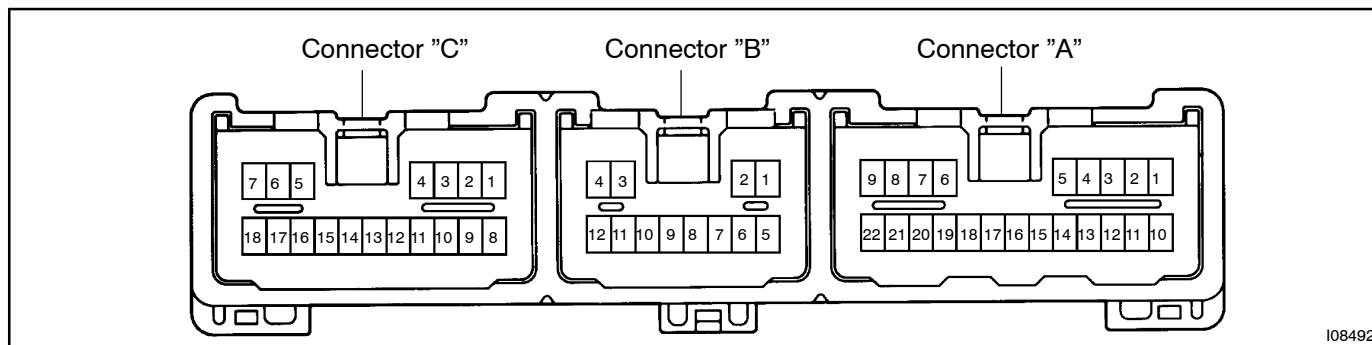
If the circuit is not as specified, inspect the connected to other parts. If the circuits is as specified, try replace the amplifier with a new one.

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



I08492

| 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 |

AIR CONDITIONING – AIR CONDITIONER AMPLIFIER (for Rear A/C)

| | | |
|--------------|--|-----------------|
| 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 – 2.2V |
| | Rr. room temperature at 40 °C (104 °F) | 1.2 – 1.6V |
| 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 |