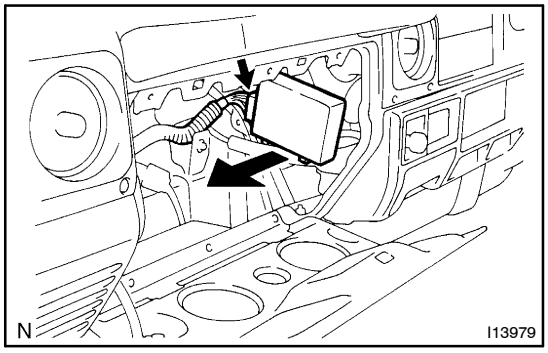



# AIR CONDITIONER AMPLIFIER

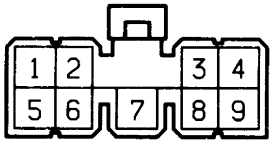
AC2HY–01

## INSPECTION

**1. 1HZ engine models:**
**REMOVE A/C AMPLIFIER**

(a) Remove the glove compartment parts (See Pub. No. RM183E on page BO–51).
(b) Disconnect the connector.
(c) Slide the outer side and remove the A/C amplifier.

**Wire Harness Side:**



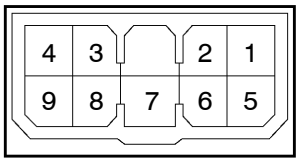

**2. 1HZ engine models:**
**INSPECT AMPLIFIER CIRCUIT**

(a) Inspect the amplifier connector on wire harness side as shown in the chart.
Test conditions:
- Ignition switch: ON
- Blower speed switch: HI
- Temperature control level: Max. Cool

| Tester connection | Condition | Specified condition |
|---|---|---|
| 6 – Ground | Constant | Continuity |
| 9 – Ground | Evaporator temperature at 25 °C (77 °F) | Approx. 1.5 kΩ |
| 14 – 13 | Constant | 65 – 125 Ω at 25 °C (77 °F) |

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

**From Back Side:**




(b) Connect the connector to amplifier and inspect wire harness side connector from the back side, as shown in the chart below.
Test conditions:
- Running engine: idle speed
- Blower speed switch: HI
- A/C switch: ON
- Temperature control level: Max Cool
- Set on manifold gauge set

| Tester connection | Condition | Specified condition |
|---|---|---|
| 1 – Ground | Magnetic clutch is not engaged | Below 1.0 V |
| 1 – Ground | Magnetic clutch is engaged | No voltage |
| 7 – Ground | Magnetic clutch is not engaged | Below 2.0 V |
| 7 – Ground | Magnetic clutch is engaged | Battery positive voltage |
| 3 – Ground | Refrigerant pressure 196 – 1,340 kPa | Battery positive voltage |
| 3 – Ground | Refrigerant pressure less than 196 or more than 3,140 kPa | No voltage |

| | | |
|---|---|---|
| 4 – Ground | Engine coolant temp. 83 °C (181 °F) or below | Battery positive voltage |
| 4 – Ground | Engine coolant temp. 93 °C (199 °F) or above | Below 1.0 V |

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

**3. 1HZ engine models:**
**INSTALL A/C AMPLIFIER**

(a) Install the A/C amplifier.
(b) Connect the connector.
(c) Install the glove compartment parts (See Pub. No. RM183E on page BO–56).