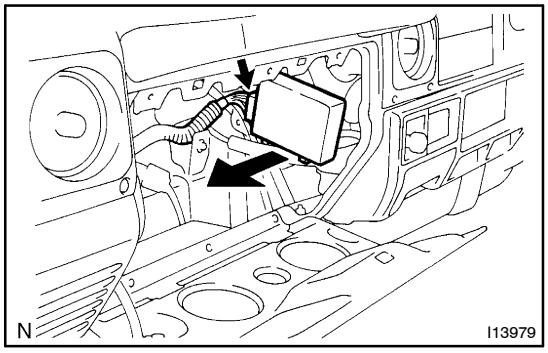


AIR CONDITIONER AMPLIFIER

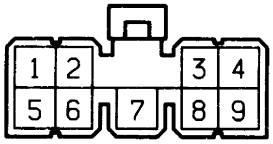
AC2HY–01

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:



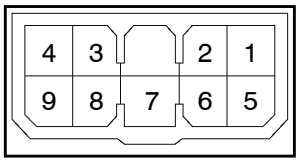
2. 1HZ engine models:
INSPECT AMPLIFIER CIRCUIT

(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).