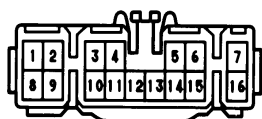


Wire harness side

Connector "A"



Connector "B"



103856

AIR CONDITIONING AMPLIFIER (Manual A/C)

AC3DX-01

ON-VEHICLE INSPECTION

1. INSPECT A/C AMPLIFIER CIRCUIT

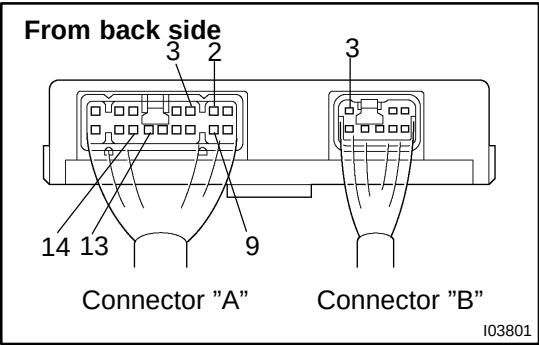
- (a) Disconnect the connector from amplifier and inspect the connector on wire harness side, as shown in the chart.

Test conditions:

Turn ignition switch to ON

Test connection	Condition	Specified condition
A6 - Ground	Constant	Continuity
A11 - A15	Evaporator temperature at 25 °C (77 °F)	Approx. 1.5 kΩ
A16 - A15	Constant	65 - 125 Ω at 20 °C (68 °F)
B5 - B4	Temperature control dial at "Max. COOL"	Approx. 6.0 kΩ
	Temperature control dial at "Max. WARM"	0 kΩ
B6 - B4	Constant	6.0 kΩ
B7 - B4	Temperature control dial at "Max. COOL"	Approx. 3.0 kΩ
	Temperature control dial at "Max. WARM"	0 kΩ
A4 - Ground	Constant	Battery positive voltage
	Turn ignition switch to LOCK or ACC	No voltage
A10 - Ground	A/C switch ON	Battery positive voltage
	A/C switch OFF	No voltage
A12 - Ground	A/C switch ON	Below 4.0 V
	A/C switch OFF	No voltage

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



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

Test conditions:

- Running engine at idle speed
- Front A/C and rear A/C blower switches at "HI" position
- Front A/C and rear A/C temperature control dials at "Max. COOL" position
- A/C switch ON
- Set manifold gauge set

Tester connection	Condition	Specified condition
A2 - Ground	Constant	No voltage
	Engine speed at idle - up speed	Below 0.7 V
A3 - Ground	Refrigerant pressure 196 - 3,140 kPa	Battery positive voltage
	Refrigerant pressure less than 196 kPa or more than 3,140 kPa	No voltage
A9 - Ground	Magnetic clutch is engaged	Below 1.0 V
	Magnetic clutch is not engaged	No voltage
A13 - Ground	Engine coolant temperature at below 90 °C (203 °F)	Below 1.5 V
	Engine coolant temperature at above 90 °C (203 °F)	Battery positive voltage
A14 - Ground	Magnetic clutch is engaged	Battery positive voltage
	Magnetic clutch is not engaged	No voltage
B3 - Ground	Constant	Below 1.5 V
	Turn rear temperature control dial to "WARM" position	Battery positive voltage

If the circuit is as specified, try to replace the amplifier with a new one.

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