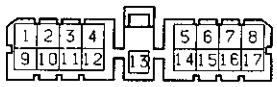
WIRE HARNESS

A/C Amplifier (Dual A/C)



K-17-1

AIR CONDITIONER AMPLIFIER

(Dual A/C : 1FZ-F Engine)

INSPECT AMPLIFIER CIRCUIT

Disconnect the amplifier and inspect the connector on the wire harness side as shown in the chart below.

Test conditions:

(1) Ignition switch: ON

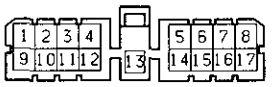
(2) Temperature control lever: MAX COOL

(3) Blower switch: HI

Check for	Tester connection	Condition	Specified value
Continuity	5 – 13	Turn rear A/C switch on.	Continuity
		Turn rear A/C switch off.	No continuity
	13 – Ground	Constant	Continuity
	16 – 17	Constant	Continuity
Voltage	1 – 13	Turn ignition switch on.	Battery voltage
		Turn ignition switch off.	No voltage
	2 – 13	Turn ignition switch on.	Battery voltage
		Turn ignition switch off.	No voltage
	3 – 13	Turn ignition switch on.	Battery voltage
		Turn ignition switch off.	No voltage
	4 – 13	Turn A/C switch on.	Battery voltage
		Turn A/C switch off.	No voltage
	5 – 13	Turn ignition switch on.	Battery voltage
		Turn ignition switch off.	No voltage
	6 – 13	Turn ignition switch on.	Battery voltage
		Turn ignition switch off.	No voltage
	9 – 13	Start the engine.	Approx. 10 to 14 V
		Stop the engine.	No voltage
	10 – 13	Turn ignition switch on.	Battery voltage
		Turn ignition switch off.	No voltage
	14 – 13	Turn ignition switch on.	Battery voltage
		Turn ignition switch off.	No voltage
Resistance	7 – 8	Variable	Approx. 0 to 3 kΩ
	8 – 12	Constant (thermistor)	Approx. 100 – 4,000 Ω
	16 – 12	Constant (thermistor)	Approx. 100 – 4,000 Ω

If circuit is as specified, replace the amplifier.

WIRE HARNESS
A/C Amplifier (Dual A/C)



K-17-1

(Dual A/C : 1FZ-FE Engine)

INSPECT AMPLIFIER CIRCUIT

Disconnect the amplifier and inspect the connector on the wire harness side as shown in the chart below.

Test conditions:

(1) *Ignition switch:* ON
(2) Temperature control lever: MAX COOL
(3) Blower switch: HI

Check for	Tester connection	Condition	Specified value
Continuity	5 – 13	Turn rear A/C switch on.	Continuity
		Turn rear A/C switch off.	No continuity
	13 – Ground	Constant	Continuity
	16 – 17	Constant	Continuity
Voltage	1 – 13	Turn ignition switch on.	Battery voltage
		Turn ignition switch off.	No voltage
	2 – 13	Turn ignition switch on.	Battery voltage
		Turn ignition switch off.	No voltage
	3 – 13	Turn ignition switch on.	Battery voltage
		Turn ignition switch off.	No voltage
	4 – 13	Turn A/C switch on.	Battery voltage
		Turn A/C switch off.	No voltage
	5 – 13	Turn ignition switch on.	Battery voltage
		Turn ignition switch off.	No voltage
	6 – 13	Turn ignition switch on.	Battery voltage
		Turn ignition switch off.	No voltage
	14 – 13	Turn ignition switch on.	Battery voltage
		Turn ignition switch off.	No voltage
Resistance	7 – 8	Variable	Approx. 0 to 3 kΩ
	8 – 12	Constant (thermistor)	Approx. 100 – 4,000 Ω
	16 – 12	Constant (thermistor)	Approx. 100 – 4,000 Ω

If circuit is as specified, replace the amplifier.

— MEMO —