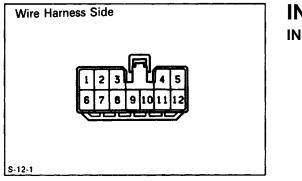


## AMPLIFIERS INSPECTION OF A/C AMPLIFIER INSPECT AMPLIFIER CIRCUIT

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

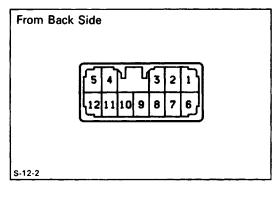
Check for	Tester connection	Condition		Specified value
Continuity	15 – ground	Constant		Continuity
Continuity		3S–GTE	Constant	No continuity
	10 – ground	5S–FE	Constant	Continuity
Resistance	* 5 – ground	Constant		Approx. 12 Ω
	9–14	Constant		Approx. 115Ω
	16–14	Constant		Approx. 15 k $\Omega$ at 25°C (77°F)
Voltage		Turn A/C switch on.		No voltage
	1 –ground	Turn A/C switch off.		No voltage
		Turn A/C swi	tch on.	Battery positive voltage
	3 – ground	Turn A/C switch off.		No voltage
		Turn A/C switch on.		No voltage
	6 – ground	Turn A/C switch off.		Battery positive voltage
		Turn A/C switch on.		No voltage
	8 – ground	Turn A/C switch off.		Battery positive voltage
		Turn A/C switch on.		Battery positive voltage
	13 – ground	Turn A/C switch off.		No voltage
		Start the eng	ine.	Approx. 10 to 14 V
	18 – ground	Stop the eng	ine.	No voltage
*1: with Variable	Volume Control Mechanis	m Compressor		



### **INSPECTION OF SYSTEM AMPLIFIER** INSPECT AMPLIFIER CIRCUIT

- (a) Disconnect the amplifier and inspect connector on the wire harness side as shown in the chart below. Test conditions:
- (1) Ignition switch: ON
- (2) Temperature control switch: MAX COOL

Check for	Tester connection	Condition	Specified value
Continuity	1 –6	Constant	Continuity
	9 – ground	Constant	Continuity
Resistance'	5–2	Constant	Approx. 3 kΩ
	5–10	Constant	Approx. 6 kΩ
	11 –10	Constant	1.2 – 4.8 kΩ
	12–2	Temperature control switch turned to MAX COOL	Approx. 3 kΩ
Voltage	7 – ground	Constant	Battery positive voltage
*1: without AUTC	D A/C models		······································



HINT: Perform the following check only for vehicles with AUTO A/C.

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

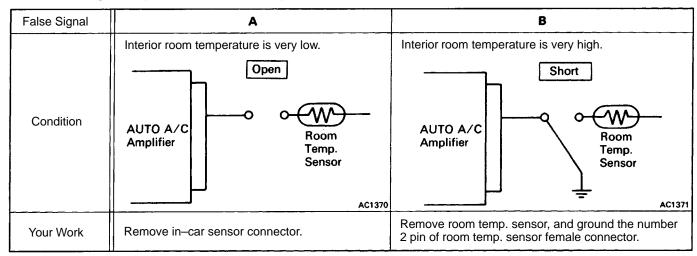
Test conditions:

- (1) Engine running
- (2) A/C switch: ON
- (3) Blower switch: HI

ground	Temp. control switch turned to MAX HOT Temp. control switch turned to MAX COOL	Approx. 0 V*'
grouna	Temp, control switch turned to MAX COOL	Approx EV
		Approx. 5 V
4 – ground	Temp. control switch turned to MAX HOT	Approx. 5 V
	Temp. control switch turned to MAX COOL	Approx. 0 V'
_		round

# **INSPECTION OF AUTO A/C AMPLIFIER**

1. False Signal Input to Auto A/C Amplifier



### 2. System Operation when Input False Signal

Condition: Setting Temperature is at 25°C (77°F)

System Main Parts	False Signal	Motion				
Air Mix Control	A	Air mix control servo motor shaft moves towards max-hot side.				
Servomotor	B Air mix control servo motor shaft moves towards max-cool sic		de.			
<u></u>		Air Vent Mode Damper				
Air Flow Mode Control Servomotor		VENT	BI–LEVEL	H EAT	DEF	
	A	Close	Close	Open	Close	
	В	Open	Close	Close	Close	

#### 3. System Operation when Input False Signal (Cont'd)

System Main Parts	False Signal	Motion
Blower Motor	A	Blower motor rotates at high speed.
	В	
	A	OPEN
Water Valve	В	CLOSE
	1	
FRE/REC Control Servomotor	FR E Switch ON	Fresh air is ventilated.
	REC Switch ON	Recirculation air is ventilated.

If necessary, replace the system amplifier.