

## POWER SUPPLY AND GROUND CIRCUIT FOR AUTO AMP.

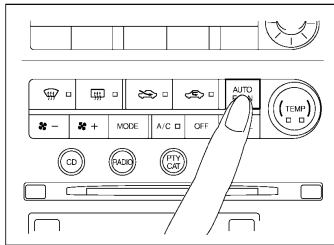
**Power Supply and Ground Circuit for Auto Amp.**

SYMPTOM: A/C system does not come on.

## Inspection Flow

**INSPECTION FLOW**

1. Confirm symptom by performing the following operational check.

**OPERATIONAL CHECK – AUTO mode**

- Press AUTO. ECON switch.
- Display should indicate AUTO (not ECON). Confirm that the compressor clutch engages (sound or visual inspection). (Discharge air and blower speed will depend on ambient, in-vehicle and set temperatures.)

If OK (symptom cannot be duplicated), perform complete operational check (\*2).  
 If NG (symptom is confirmed), continue with STEP-2 following.

2. Check for any service bulletins.

3. Check Main Power Supply and Ground Circuit. (\*1)

4. Check Multiplex Communication Circuit (\*3).

OK

5. Replace Display and A/C auto amp.

\*1 "DIAGNOSTIC PROCEDURE FOR A/C SYSTEM"

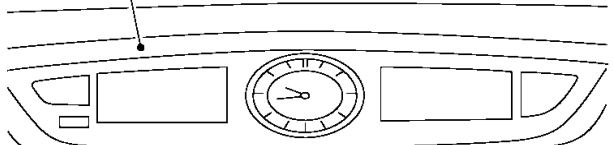
\*2 "Operational Check"

\*3 "Multiplex Communication Circuit"

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**INSPECTION FLOW****COMPONENT DESCRIPTION**

Display and A/C auto amp.



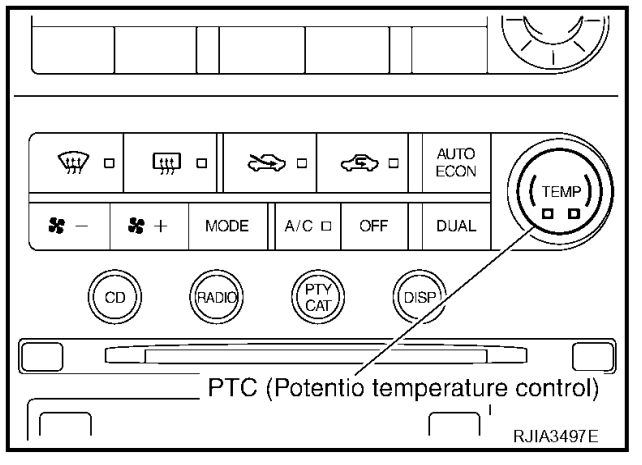
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**Display and A/C Auto Amp. (Automatic Amplifier)**

The display and A/C auto amp. has a built-in microcomputer which processes information sent from various sensors needed for air conditioner operation. The air mix door motor, mode door motor, intake door motor, blower motor and compressor are then controlled.

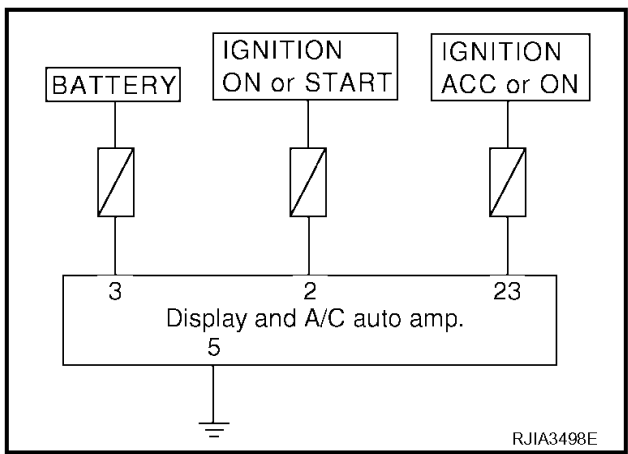
The display and A/C auto amp. is unitized with control mechanisms. When the various switches and temperature control dial are operated, data is input to the display and A/C auto amp. from the A/C and Audio controller using multiplex communication.

Self-diagnostic functions are also built into display and A/C auto amp. to provide quick check of malfunctions in the auto air conditioner system.



### Potentio Temperature Control (PTC)

The PTC is built into the A/C and audio controller. It can be set at an interval of 0.5 °C (1.0 °F) in the 18 °C (60 °F) to 32 °C (90 °F) temperature range by turning temperature control dial. The set temperature is displayed.

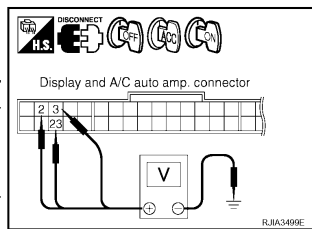


### Diagnostic Procedure For A/C System

#### 1. CHECK POWER SUPPLY CIRCUIT FOR DISPLAY AND A/C AUTO AMP.

1. Disconnect display and A/C auto amp. connector.
2. Check voltage between display and A/C auto amp. harness connector M31 terminals 2 (Y/G), 3 (R/W), 23 (LG) and ground.

Display and A/C auto amp. connector	Terminals		Ignition switch position		
	Terminal No. (wire color)	(-)	OFF	ACC	ON
M31	2 (Y/G)	Ground	Approx. 0V	Approx. 0V	Battery voltage
M31	3 (R/W)		Battery voltage	Battery voltage	Battery voltage
M31	23 (LG)		Approx. 0V	Battery voltage	Battery voltage



OK or NG

- OK >> GO TO 2.  
 NG >> Check 10A fuses [Nos. 6, 12 and 19, located in the fuse block (J/B)]. Refer to "**FUSE BLOCK - JUNCTION BOX (J/B)**".
- If fuses are OK, check harness for open circuit. Repair or replace if necessary.
  - If fuses are NG, replace fuse and check harness for short circuit. Repair or replace if necessary.

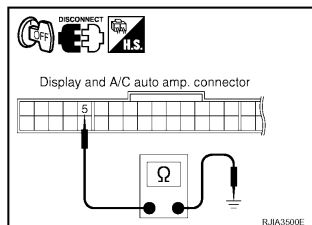
#### 2. CHECK GROUND CIRCUIT FOR DISPLAY AND A/C AUTO AMP.

1. Turn ignition switch OFF.
2. Check continuity between display and A/C auto amp. harness connector M31 terminal 5 (B) and ground.

**5 – Ground : Continuity should exist.**

OK or NG

- OK >> Replace display and A/C auto amp.  
 NG >> Repair or replace harness.



**DIAGNOSTIC PROCEDURE FOR A/C SYSTEM**

SYMPTOM: A/C system does not come on.