

**SYSTEM/MODEL:** NEM

**MODIFICATION:** Installing PC-359B (or PC-454) with speaker and call button

**DIFFICULTY LEVEL:** 4 - Moderate/hard - Internal connection or component addition.

**COMPONENTS REQUIRED:** 1. PC-359B or PC-454: Call holding circuit board, one per remote speaker/call button

2. LT-1: 8 to 20 ohm transformer, one per remote speaker (Use speaker with 1W handling capacity.)

**INSTR/OPERATIONS:** 1. If the existing speaker is 8 ohms, install the LT-1 transformer with the BLUE wires to the speaker.

2. If the existing speaker is 45 ohms, install the LT-1 with the RED wires to the speaker.

3. Make connections to PC-359B/454 as shown, being careful not to short any exposed metal components on the PC board. (A soldering iron and soldering skills are required for the PC-359B. Wires are provided on the PC-454.)

4. Make sure that no moisture can come into contact with the PC board when it is installed in its designated location.

**REFERENCE DRAWING #:**

Aiphone's product warranty applies to products properly modified using these instructions. However, if a unit is damaged as a result of improper modification, the warranty does not apply.

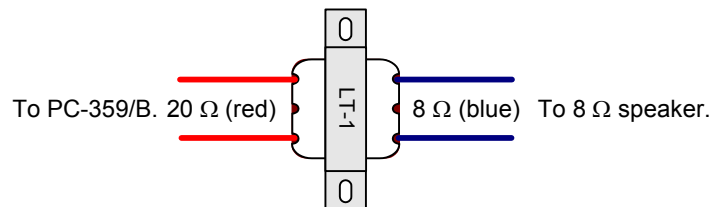
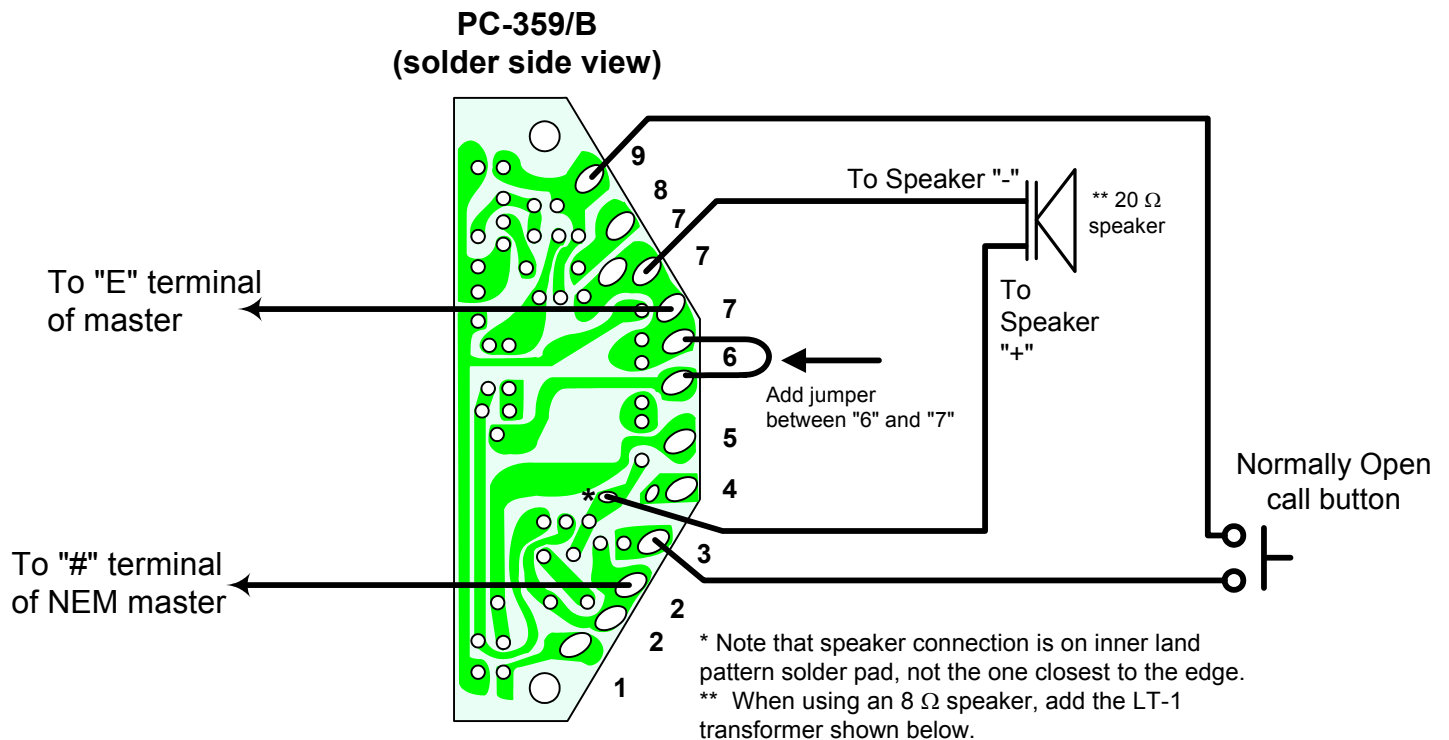
# PC-359B

Call Holding Circuit Board for Non-Aiphone Speaker and Call Button with NEM, NDR, NDRM Systems

## - INSTRUCTIONS -

The PC-359B call holding circuit board provides the latching function when a call is placed from a remote station on the NEM series Lamp Memory System. With this circuit board, a speaker and a "Normally Open" call button can be used as a remote station where a standard sub station cannot be used. The NEM system impedance is 20 ohms, so either use a 20 ohm speaker, or an 8 ohm speaker with the LT-1 matching transformer.

### WIRING DIAGRAM:



### SPECIFICATIONS:

Power Source:	Supplied by Master Station (NEM, NDR, NDRM)
Speaker:	Use 20 ohm speaker, or 8 ohm speaker with LT-1 transformer
Call Button:	Normally open momentary contact
Mounting:	Conceal behind speaker or call button
Terminations:	Solder connections directly to PC board made by installer
Wiring:	2 conductor shielded (1 common and 1 individual wire per remote)
Wiring Distance:	420' w/ 22AWG, 1,000' w/ 18AWG
Dimensions (HxWxD):	3-3/16" x 1-1/4" x 5/8"

**WIRING DIAGRAM**

**Call Holding Circuit Board for the NEM System**  
Connection of speaker, call button, and wiring to master  
Using PC-454

