

# EP-0001 - 30 WATT CLASS "D" PAGING HORN/AMPLIFIER

## EP-0002 – HIGH INTENSITY HORN/AMPLIFIER -48/-24VDC WITH VOLUME CONTROL

### INTRODUCTION

This instruction manual provides identification, installation and technical assistance information for the EP-0001 and EP-0002 Horn/Amplifier Assemblies.

This unit has received a FCC type KX registration and is designed to be used with FCC registered key telephone systems. In accordance with FCC rules with applicable tariffs, this unit may only be installed with the authorization of the host system. Installations may be made by Valcom, Inc., an authorized agent of the same, equipment manufacturers, telephone companies, registered telephone refurbishers and those qualified for installation of FCC registered systems under FCC Rules Section 68.215. The FCC Registration Number, BAF9I7-69358-KX-N, will be listed in the affidavits filed with the telephone company; it will also be recorded in the system log kept by installation and maintenance personnel.

### DESCRIPTION

The EP-0001 Paging Horn/Amplifier Assembly is a self-contained 30 Watt paging system for use in very noisy environments (>90dB). It incorporates:

- (a) 30 Watt amplifier
- (b) Volume control
- (c) High efficiency horn

The EP-0002 Paging Horn/Amplifier Assembly has a peaked mid-range for piercing through noisy environments and filtering 60Hz.

### Nominal Specifications:

Input impedance:	600 Ohms
Input level:	-15dBm to +10dBm
Current at -48VDC:	0.6 Amp
Current at -24VDC:	1.2 Amps
Frequency Response:	
EP-0001	250Hz to 8kHz, $\pm$ 0.5dB
EP-0002	1kHz to 8kHz, $\pm$ 0.5dB

### Connections:

Green	Tip/A	J1	Audio Source
Red	Ring /B	J2	Audio Source
White	-48/-24VDC	J4	Power
Black	Ground	J3	Power

Due to the low level signal required, distribution wiring is normally accomplished through house cable pair or station wire.

**Maximum Power Wire Length @ -48VDC**

Wire Gauge	Feet
#24	400
#22	600
#20	1000

**Maximum Power Wire Length @ -24VDC**

Wire Gauge	Feet
#24	200
#22	300
#20	500

**Number Speakers/Horns per Audio Run**

Wire Run (Feet)	22 AWG	24 AWG	
100	150	120	
200	150	120	
400	100	60	
800	50	30	
1600	25	15	

**Typical applications include:**

- (a) Use with a Valcom page control.
- (b) Expanding the capability of telephone systems which contain limited paging capabilities.
- (c) Loud ringer application in systems where loud speaker tone signaling is employed (additional equipment required).

**INSTALLATION**

This horn may be used for either interior or exterior paging applications and should be installed 15 to 20 feet from the floor.

Connect using 2 pair of standard CAT 3 or better to the proper speaker connection. Consult the power run charts above for maximum cable lengths.

The typical volume control setting is approximately mid-way. As the system is put in operation, the individual volume controls may be readjusted as necessary.

By loosening the knob on the base approximately four turns, the horn may be rotated or moved up and down to obtain the desired position.

**TECHNICAL ASSISTANCE**

When trouble is reported, verify there are no broken connections. Assistance in troubleshooting is available from the factory. Call (540) 563-2000 and press 1 for Technical Support, or visit our website at <http://www.valcom.com>.

Valcom equipment is not field repairable. Valcom, Inc. maintains service facilities in Roanoke, VA. Should repairs be necessary, attach a tag to the unit clearly stating company name, address, phone number, contact person and the nature of the problem. Send the unit to:

**Valcom, Inc.  
Repair and Return Dept.  
5614 Hollins Road  
Roanoke, VA 24019-5056**

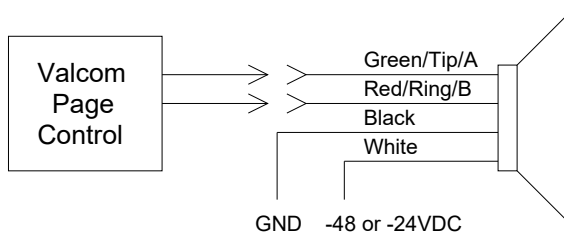
**WARRANTY**

Warranty information may be found on our website at [www.valcom.com/warranty](http://www.valcom.com/warranty).

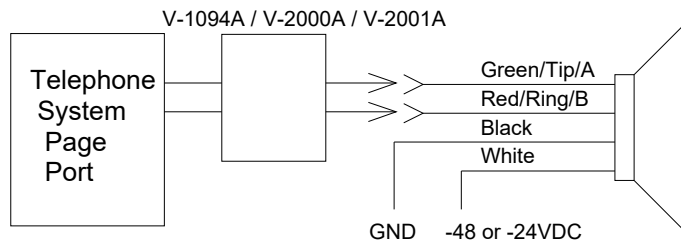
## TROUBLESHOOTING CHART

PROBLEMS	PROBABLE CAUSES AND CORRECTIONS
No Sound	<ol style="list-style-type: none"> <li>1. Check that volume control is turned up.</li> <li>2. Check presence of -48VDC or -24VDC and GND.</li> <li>3. Make sure the white wire is connected to -48VDC or -24VDC, black wire to GND (+).</li> <li>4. Using a lineman's test set, check for the proper audio level on the T &amp; R leads and if necessary also at the source.</li> </ol>
Low Volume	<ol style="list-style-type: none"> <li>1. Check that volume control is turned up.</li> <li>2. Check voltage at the horn when in use (-24 to -50 Volts required).</li> <li>3. Using a lineman's test set, check for the proper audio level on the T &amp; R leads - it is possible that some sound will be heard with only one side of Tip and Ring connected.</li> </ol>
Loud Squeal (Feedback)	<ol style="list-style-type: none"> <li>1. Lower volume of speaker.</li> <li>2. Aim horn in different direction.</li> <li>3. Move horn to location further from phone.</li> <li>4. Install confidencer on phone in severe problem areas.</li> <li>5. Add a V-9964 Stacking Feedback Eliminator.</li> </ol>

Used in conjunction with a Valcom Page Control



Used to expand loudspeaker paging capabilities



Used to expand existing 70 Volt paging systems

