

**V-1030B (Replacement)
PAGING HORN AMPLIFIER ASSEMBLY
5 WATT - 24 VDC WITH VOLUME CONTROL****CONTENTS****INTRODUCTION****SPECIFICATIONS****INSTALLATION****TECHNICAL ASSISTANCE****INTRODUCTION**

This instruction contains the specifications and information necessary to install, operate, and maintain the V-1030B Paging Horn Amplifier Assembly manufactured by Valcom, Inc., 1111 Industry Avenue, Roanoke, VA 24013.

This equipment has received FCC type KX registration, designed to be used with FCC registered Key Telephone Systems. In accordance with FCC Rules with applicable tariffs, this Paging 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. The local telephone company is to be notified of the FCC Registration Number when this Paging Unit is installed.

SPECIFICATIONS**Description**

The V-1030B is a Paging Horn/Amplifier Assembly. The V-1030B is a self-contained 5 watt paging system with a 5 watt amplifier incorporating a high efficiency horn and a volume control.

**Applications**

- Use with Valcom page control.
- Expanding the capability of telephone systems which contain limited paging capabilities.
- Loud ringer application in systems where loud-speaker tone signalling is employed.

V-1030B - Nominal Specifications

Input Impedance:	600 ohm nominal
Input level:	-15 dbm to +10 dbm
Current at -24vdc:	300 mA

Environment

- Temperature: -20 to +55 Degrees C
- Humidity: 0 - 95% non-precipitating

Horn Spacing

(coverage shown in parenthesis)

Example: In a quiet environment, V1030B 5 watt horns would be spaced 110 feet apart side to side and would provide good quality sound 110 feet in front of each horn approximately 12,000 sq. ft. of coverage.

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Location	V-1030B (5 Watt)
Quiet	110' (12,000 sq.ft.)
Moderate	80' (6,400 sq.ft.)
Noisy	50' (2,500 sq.ft.)
Very Noisy	30' (900 sq.ft.)

Definitions:

Quiet: 50-65db. This would include areas such as waiting rooms, doctors examination rooms, stock areas, etc.

Moderate: 65-80db. This includes areas such as warehouses, shipping areas, or light manufacturing.

Noisy: 80-90db. This includes machine shops or heavy manufacturing.

Very Noisy: Greater than 90db. This would include any areas where talking to another person is very difficult. Workers may be required to wear earplugs.

Audio Wire Runs

When a remote power unit is used, the audio pair run should be limited to 5000 ft. and a maximum of 4 horns when using 24 AWG wire. A V-1094A may be added to increase the number of horns and/or distance. Twisted pair wire (standard telephone wire) should be used for connections.

Power Wire Run

For good quality sound, the distance recommended between the power supply and horns should be adhered to.

# of Horns per Power Run	Wire Run Length (Ft.)	
	24 AWG	22 AWG
5 Watt Horn		
16	30	50
8	60	100
4	125	200
2	250	400
1	500	800

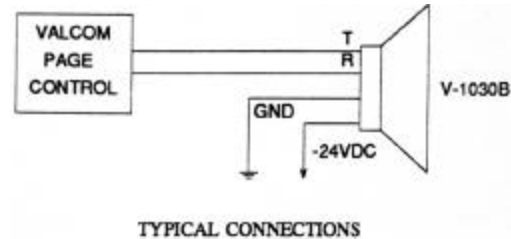
See the Valcom power run gauge guide for additional wire gauges and distances.

INSTALLATION

Wiring Connections

Twisted pair wire (standard telephone wire) should be used for connections.

Green - Tip Audio In
 Red - Ring
 Black - Ground Power In
 White - (-24vdc)
 Brown - Not Used



TECHNICAL ASSISTANCE

When trouble is reported, verify the unit is properly connected and there are no broken connections leading to this unit. Ascertain volume control is turned up.

Assistance in troubleshooting is available from the factory. When calling, you should have a VOM and a test set and be calling from the job site.

Call (703) 982-3900 and ask for an Applications Engineer.

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:
Repair and Return Dept.
Valcom, Inc.
1111 Industry Avenue
Roanoke, VA 24013

TROUBLESHOOTING CHART	
PROBLEM	PROBABLE CAUSES AND CORRECTIONS
No Sound	<ul style="list-style-type: none"> - Check that volume control is turned up (clockwise). - Check presence and polarity of -24vdc and GND. - Using a telephone test set, check for the proper audio level on the Tip and Ring leads, and if necessary also at the source.
Low Volume	<ul style="list-style-type: none"> - Check that volume control is turned up (clockwise). - Check voltage at the horn when in use, -18 to -24vdc required. - Using a telephone test set, check for proper audio level on Tip and Ring leads. It is possible that some low level audio will be heard with only one side of Tip and Ring connected.
Loud Squeal	<ul style="list-style-type: none"> - Lower volume of horn. - Aim horn in different direction. - Increase the distance between the telephone and horn. - Install a confidencer on the telephone in severe problem areas.