

VL-1030C SUPERVISED 5 WATT PAGING HORN/AMPLIFIER ASSEMBLY

INTRODUCTION

This instruction contains the specifications and information necessary to install, operate and maintain the VL-1030C Supervised Paging Horn/Amplifier Assembly.



SPECIFICATIONS

Description

The VL-1030C is a self-contained 5 Watt paging system with a 5 Watt amplifier. This unit incorporates a high efficiency horn with 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 signaling is employed.

Nominal Specifications

Input Impedance: 1000 Ohm nominal
 Input level: -10dB nominal
 Current at -24VDC: 300mA

Dimensions & Weight

- 7.40"H x 10.00"W x 10.50"D
(18.79cm x 25.40cm x 26.67cm)
- 4.65 lbs (2.11kg)

Environment

- Temperature: -20 to +55° C (-4 to 131° F)
- Humidity: 0 to 95% non-precipitating

Horn Spacing

(coverage shown in parenthesis)

| Location | VL-1030C - 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.) |

Example: In a quiet environment, VL-1030C 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.

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.

Power Wire Run

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

| Number of Horns per Power Run | Wire Run Length (ft.) | |
|-------------------------------|-----------------------|--------|
| | 24 AWG | 22 AWG |
| VL-1030C | | |
| 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 (Audio) |
| Black | - Ground (Power In) |
| White | - (-24VDC) |
| Brown | - Not Used |

Attaching Speaker to Base

NOTE: For ease of installation, the base can be attached to the horn before or after the base is mounted.

- Loosen position adjustment knob.
- Insert the ball of the base into the socket of the horn.
- Tighten the position adjustment knob.

Mounting

These horns should be mounted 15 to 20 feet above the floor to allow for best sound distribution. The units can be mounted to a wall, a beam, or an electrical box.

- Mount the base to a wall using the two holes provided. Knockout holes are provided for punch out should additional holes be desired.
- A "C" clamp is provided with the horns to allow mounting to a beam. Place the bolt through the hole in the bottom of the base to secure the "C" clamp to the beam (See Figure 1). It is suggested that the horn be mounted to the underside of the "I" beam so as to provide the maximum of positioning adjustments.
- Connection to an electrical backbox is accomplished by channeling wire through the ball of the base and making appropriate connections. The base has holes punched for a double-gang square box, but by punching out additional knockout holes, the base can be mounted to a single-gang or octagon box (See Figure 2).

The horns may be rotated or moved up and down to obtain the desired position by loosening the position adjustment knob (See Figures 1 and 2) at the bottom of the unit approximately 1 turn. Make required adjustments and re-tighten knob.

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, a test set and call from the job site. Call (540) 563-2000 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

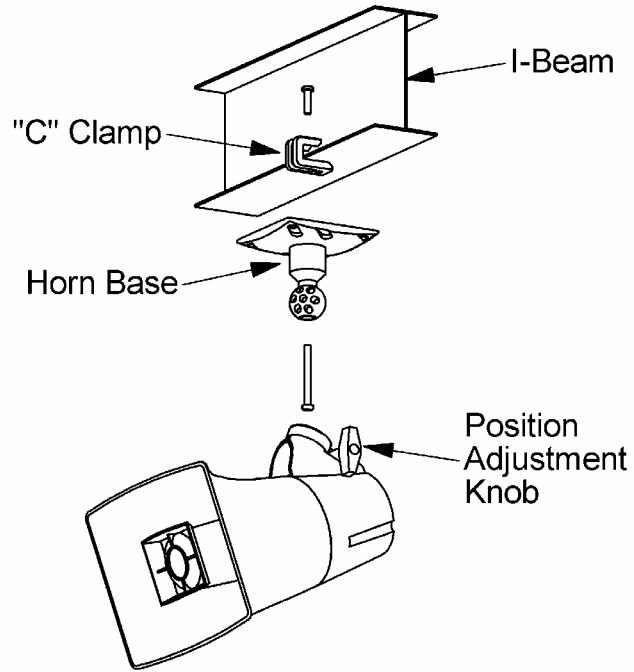


Figure 1- Mounting to a Beam with a "C" Clamp

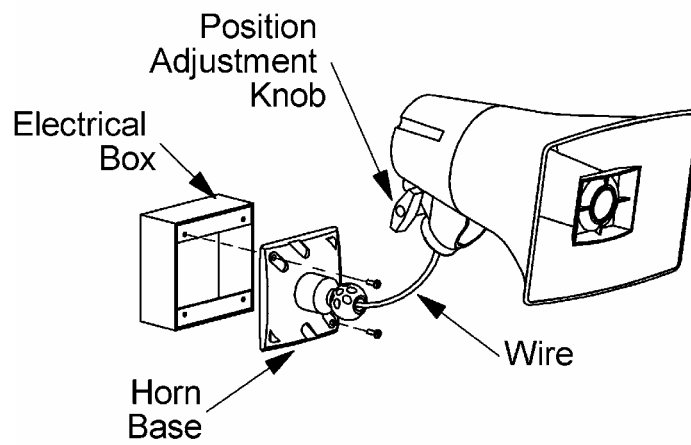


Figure 2- Mounting to an Electrical Box

| TROUBLESHOOTING CHART | |
|------------------------------|---|
| PROBLEMS | PROBABLE CAUSES AND CORRECTIONS |
| No Sound | <ul style="list-style-type: none"> • Verify that volume control is turned up (clockwise). • Verify presence and polarity of -24VDC and GND. • Using a telephone test set, verify 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, verify proper audio level on Tip and Ring leads. It is possible 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. |

VALCOM LIMITED WARRANTY

Valcom, Inc. warrants its products to be free from defects in materials and workmanship under conditions of normal use and service for a period of one year from the date of shipment. The obligation under this warranty shall be limited to the replacement, repair or refund of any such defective device within the warranty period, provided that:

1. inspection by Valcom, Inc. indicates the validity of the claim;
2. the defect is not the result of damage, misuse, or negligence after the original shipment;
3. the product has not been altered in any way or repaired by others and that factory sealed units are unopened (a service charge plus parts and labor will be applied to units defaced or physically damaged);
4. freight charges for the return of products to Valcom are prepaid;
5. all units 'out of warranty' are subject to a service charge. The service charge will cover minor repairs (major repairs will be subject to additional charges for parts and labor).

This warranty is in lieu of and excludes all other warranties, expressed or implied and in no event shall Valcom, Inc. be liable for any anticipated profits, consequential damages, loss of time or other losses incurred by the buyer in connection with the purchase, operation, or use of the product.

This warranty specifically excludes damage incurred in shipment. In the event a product is received in damaged condition, the carrier should be notified immediately. Claims for such damage should be filed with the carrier involved in accordance with the F.O.B. point.

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