

## V-1048C - 45 OHM TALKBACK HORN

### INTRODUCTION

These instructions contain the specifications and guidelines necessary to install, operate, and maintain the V-1048C, 45 Ohm Talkback Horn.

### SPECIFICATIONS

#### Applications

The V-1048C talkback horn is designed to be used with "handsfree" talkback control units. In combination with these units, the speakers provide both loudspeaker and talkback functions.

A standard talkback paging system is comprised of three basic components:

1. Talkback Page Control Unit
2. Speakers
3. Power Supply

Consult your Valcom distributor for assistance in selecting a control unit and power supply.

#### Features

- 45 Ohm input impedance
- Easy connection using twisted pair wiring
- Universal mounting base

#### Nominal Specifications

- Input Impedance: 45 Ohm

#### Dimensions & Weight

- 7.4" H x 10.0"W x 10.4"D  
(18.8cm H x 25.4cm W x 26.4cm D)
- 3.4 lbs. (1.5kg)



#### Environment

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

#### Limitations

- Two talkback speakers maximum per zone (depending on controller)
- 800 feet maximum cable length to speaker  
NOTE: Do not split pairs to speakers.
- Do not use talkback in noisy areas (80 dB or greater)

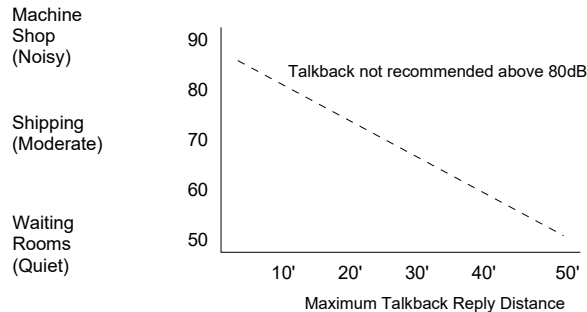
#### Coverage

The distance you can be away from a speaker and still have good talkback depends on the type of speaker and ambient noise level.

The speaker should be as close as possible to the area where talkback is desired. It should not be mounted close to, or pointed at, noise producing equipment such as fans, air conditioners, machinery, or compressors.

The chart below shows maximum talkback distances relative to the noise level of the surroundings.

TYPICAL REPLY DISTANCE CHART



**Remember: The speaker is no better than your ears. If you can not carry on a conversation at normal voice levels over the required talkback distance, then talkback page equipment will not function satisfactorily.**

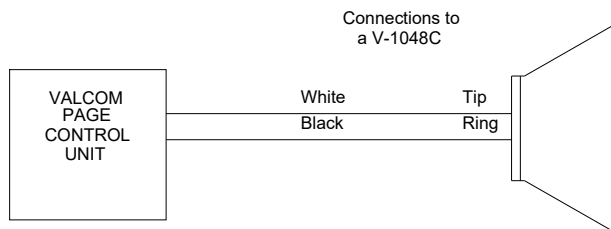
## INSTALLATION

### Cabling

Connections should be accomplished using regular twisted pair wiring. Do not split pairs.

### Connections

Connect station or other suitable wire to leads as follows:



### Attaching Speaker to Base

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

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

### Mounting

Mount the horn to a suitable surface using the hardware provided. These 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 to provide maximum 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 knob at the bottom of the unit approximately one turn (See Figures 1 & 2). Make required adjustments and re-tighten knob.

## TROUBLESHOOTING CHART

PROBLEMS	PROBABLE CAUSES AND CORRECTIONS
No Sound in Page Mode	<ol style="list-style-type: none"> <li>1. Check tip and ring for audio at speaker.</li> <li>2. Check tip and ring at control unit.</li> </ol>
Low Sound in Page Mode	<ol style="list-style-type: none"> <li>1. Check volume controls at page control.</li> </ol>
Poor Listening in Talkback Mode	<ol style="list-style-type: none"> <li>1. Check talkback volume controls at page control. Set control at minimum suitable listening level.</li> </ol>

## **TECHNICAL ASSISTANCE**

When trouble is reported, verify there are no broken connections leading to the unit.

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

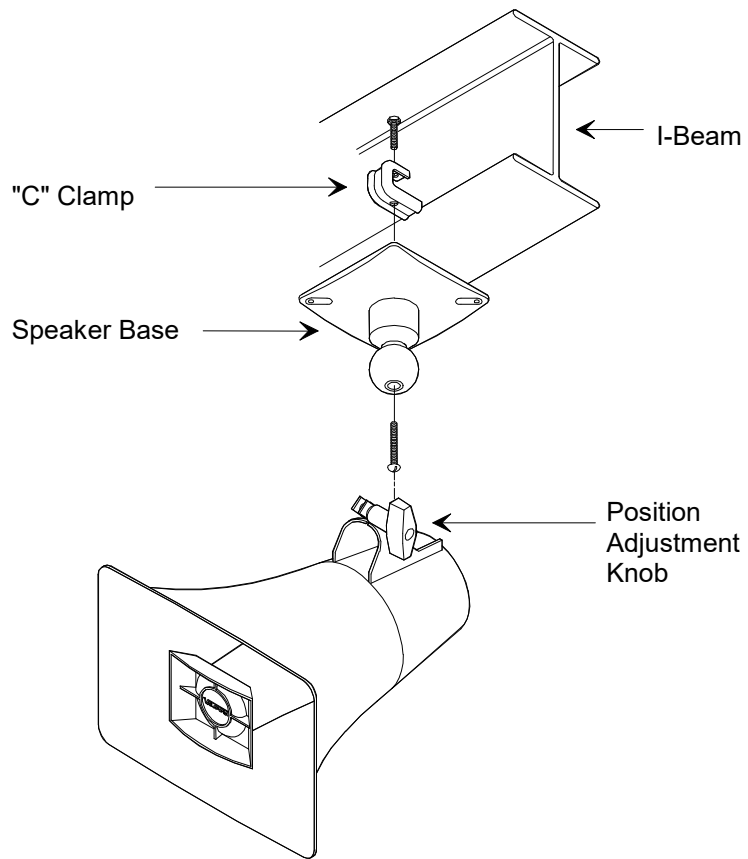


Figure 1 - Mounting to a Beam with a "C" Clamp

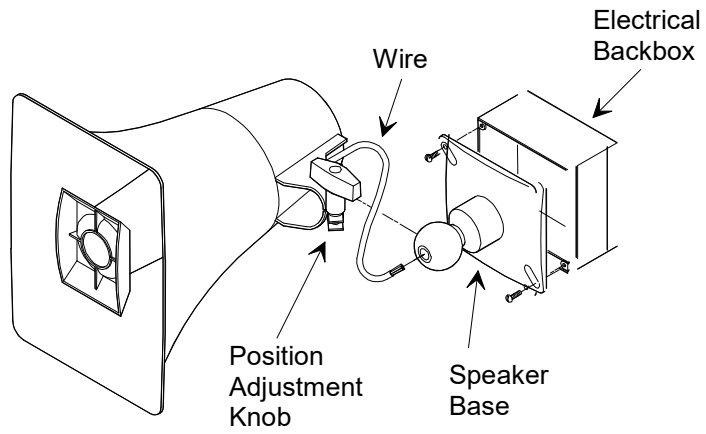


Figure 2 - Mounting to an Electrical Backbox