

## 40 WATT EXPLOSION PROOF HORN V-5331215A

### INTRODUCTION

Explosion Proof Horn Speakers are constructed so that all electrical components are sealed from the atmosphere and may be used in areas where flammable substances are present. The explosion proof speakers require some assembly before installation (See Figure 1).

Explosion proof speakers are mounted, using the U-shaped mounting bracket (Attached to each speaker). These brackets are intended primarily for mounting on flat surfaces, and each bracket has three holes which may be used for installing mounting hardware. Speaker position in the vertical axis may be adjusted by loosening the bolts that secure the bracket to the speaker body (See Figure 1).

### SPECIFICATIONS

#### Features

- UL/CSA Listed
- Heavy Duty Construction
- Omni-Directional Mounting Bracket
- 5 Tap Settings (2.5W, 5W, 10W, 20W, 40W)

#### Nominal Specifications

- Dispersion: Wide Angle
- Input: 70.7V Line
- Output: 101dB - 113dB

#### Dimensions/Weight

- 16.50" Diameter x 21.50" D  
(41.91cm x 54.61cm)
- 27 lbs. (12.2 kg)

#### Environment

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

### INSTALLATION

#### Mounting

Separate the horn and the base of the speaker by holding the base of the speaker tightly and turning the horn counterclockwise (See Figure 1, View 1). Separate the two halves of the speaker base by removing the eight bolts (See Figure 1, View 2).



Make the conduit entry into the speaker as required by local ordinances for the class and type of speaker used (See Figure 1, View 3).

On the speaker cable, separate the inner wires for a distance of 3 or 4 inches by stripping away insulation from the main cable. If using shielded cable, the inner wire without insulation is the shield wire. Strip approximately 1/2 inch of insulation from the end of each of the smaller insulated wires.

**Note:** The cable must enter the speaker through a conduit that has been installed according to local ordinances for the class and type of speaker used.

Connect the wires on terminals 1 and 2. If shielded cable is used, either splice the shield wire to provide a continuous shield to the next speaker or clip the shield wire at the point where it emerges from the main cable, as appropriate. The shield wire should not be terminated on the speaker.

### POWER ADJUSTMENTS

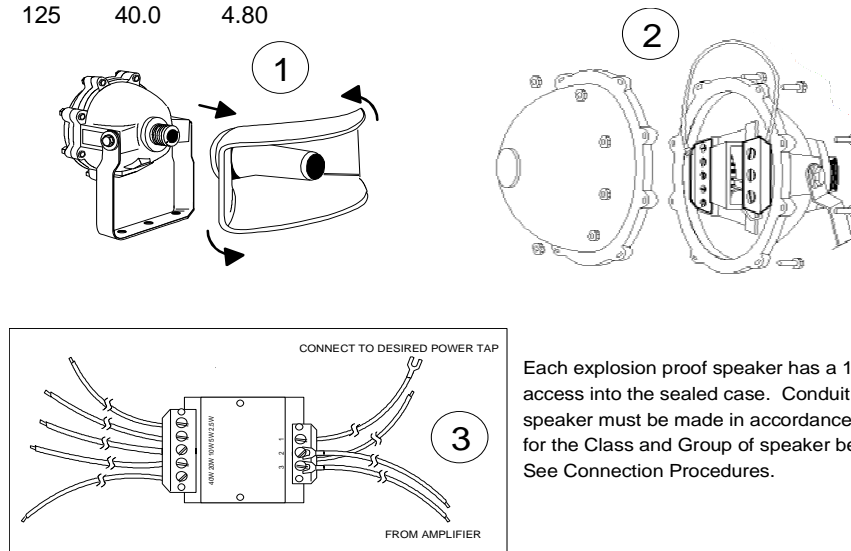
If necessary, remove the power tap selection wire (White wire) and reattach it to the desired power tap. The numbers on the terminal strip indicate the output in Watts for a 70Volt paging system (On a 25Volt paging system, the output will be approximately 1/8 of that indicated (See Table 1). Reassemble the two halves of the speaker case by reinstalling the eight bolts.

## CONNECTION TO AMPLIFIER

Exercise special care in removing back cover of explosion proof driver enclosure (Part 1) to avoid damaging machined surfaces. Prior to reassembly, make certain that joining surfaces of enclosure are free of dirt. Tighten all cover bolts completely. To provide the specified protection in hazardous locations, please note that no compound of any type is to be applied on machined flange.

**TABLE 1. 40Watt Explosion Proof**

Tap Setting	Impedance Ohms	70V Power Watts	25V Power Watts
1	2K	2.50	0.330
2	1K	5.00	0.650
3	500	10.0	1.30
4	250	20.0	2.60
5	125	40.0	4.80



**FIGURE 1**

## TECHNICAL ASSISTANCE

When calling, have a VOM and a telephone test set available and call from the job site.

Call (540) 563-2000 and press 1 for PagePac Technical Support or visit our websites at <http://www.pagepac.com> and [www.valcom.com](http://www.valcom.com).

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.**  
**PagePac® Repair Dept.**  
**5614 Hollins Road**  
**Roanoke, VA 24019-5056**

Each explosion proof speaker has a 1/2-inch conduit access into the sealed case. Conduit entry into the speaker must be made in accordance with local codes for the Class and Group of speaker being used. See Connection Procedures.

### 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:

- inspection by Valcom, Inc. indicates the validity of the claim;
- the defect is not the result of damage, misuse, or negligence after the original shipment;
- 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);
- freight charges for the return of products to Valcom are prepaid;
- 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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