

BOGEN[®]

COMMUNICATIONS, INC.

**AMPLIFIED HORN; 5 WATT, -24VDC
WITH VOLUME CONTROL**

MODEL AH-5A



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TECHNICAL SPECIFICATIONS

Rated Output Power: 5 Watts RMS
Dispersion: 110°
Input Impedance: 600-ohm balanced
Idle Current: 75mA
Current @ Rated Output: 400mA
Voltage: -24VDC
Sensitivity: 32mV across 600 ohms
Dimensions: 8"W x 8"H x 9"D (20.3 x 20.3 x 22.8cm)
Shipping Weight: 4.5 pounds, (2.0kg)

1. GENERAL INFORMATION

1.1 DESCRIPTION

The Bogen Model AH-5A is a one-way, self-contained amplified paging horn assembly that incorporates a 5-watt amplifier and a volume control. The horn may be used to expand the capability of telephone systems in high noise areas, and is suitable for interior or exterior paging applications.

2. PRODUCT IDENTIFICATION

2.1 APPLICATIONS

The AH-5A is a compact, high-intelligibility speaker ideally suited for indoor and outdoor sound and signalling. Its sturdy weatherproof construction recommends itself for installation in industry and commerce, transportation terminals, construction sites, schools, and recreation areas.

2.2 PHYSICAL FEATURES

The AH-5A speaker is constructed entirely of metal and is finished with texturized mocha tan epoxy enamel. It has a mounting bracket equipped with a single locking pin and is adjustable in both the vertical and horizontal planes.

3. INSTALLATION

3.1 MOUNTING

For ease of installation, first remove the mounting bracket from the speaker by removing the wing nut and threaded screw. Secure the bracket to the mounting surface with three screws or bolts. Replace the horn on the mounting bracket and install the threaded screw and wing nut. Orient the horn in the desired position, then hand tighten the wing nut.

CAUTION: Hand tighten the wing nut only — do not use pliers or other tools.

The horn may also be mounted on a metal I-beam by passing ½-inch steel strapping through the mounting bracket and properly securing to the beam.

3.2 ELECTRICAL INSTALLATION

A power supply is required with this unit. Use the Bogen Model PRS-624D Power Supply, capable of supplying power for up to ten AH-5A horns. Due to the low level signal required, two-conductor #22AWG station wire may be used for distribution wiring.

The wiring connections to the speaker are as follows:

| | | |
|---------------|-------------------|---------------|
| Power Supply: | -24VDC | to White lead |
| | Ground (Positive) | to Black lead |
| Telephone: | Audio Signal Tip | to Green lead |
| | Audio Signal Ring | to Red lead |

4. OPERATION AND TROUBLESHOOTING

As the system is put into operation, the volume control should be adjusted as necessary.

| PROBLEM | POSSIBLE CAUSES AND SOLUTIONS |
|-------------|--|
| No Sound: | A. Check that the volume control is turned up. B. Check power and ground connections. C. Use a voltmeter (100mV full scale) to check for the proper level across the tip and ring leads. The meter should read 32mV. |
| Low Volume: | A. Ensure the volume control is turned up. B. Check voltage at the horn while in operation. |
| Feedback: | A. Lower speaker volume. B. Aim horn in a different direction or move horn to a location farther from the phone. |

5. SERVICE

CAUTION: There are no user-serviceable parts within the horn assembly. Have all internal servicing performed by qualified technicians. The warranty will become void if repairs are made by other than the Bogen Service Department or authorized service agency.

Our Service Department is interested in the maintenance of your Bogen equipment. If trouble ever develops, do not hesitate to ask our advice or assistance. Information may be obtained by writing to: Service Department, Bogen, A Lear Siegler Company, P.O. Box 575, Ramsey, NJ 07446.

When communicating with us, give the model and series designation of your unit. Describe the difficulty and include details on the electrical connections to associated equipment. We will send you service information if the trouble appears simple. If the trouble requires servicing, we will send you the name and address of the nearest authorized Bogen Service Agency.

When shipping your unit, pack it well, using the original shipping carton or a similar container and filler material to prevent damage in transit. Send the unit, fully insured and prepaid, via UPS or any responsible carrier. The repaired unit will be returned to you freight prepaid while in warranty.