

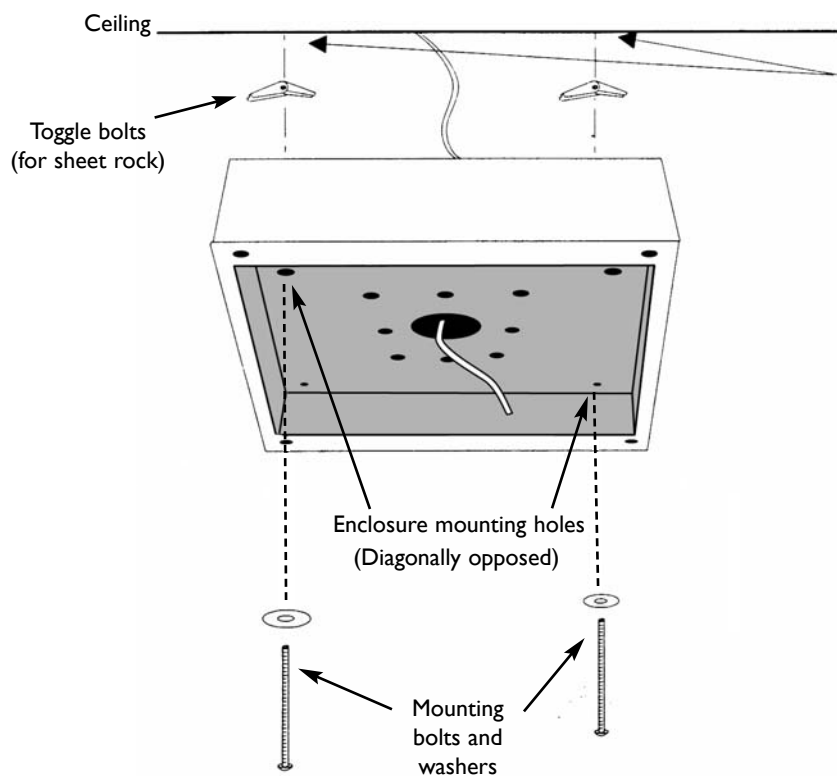
## AMBSL1, AMBSQ1

### 1W Self-Amplified Metal Box Speakers For Surface Mounting to Walls and Ceilings



#### Installation Instructions

1. Determine where the speaker(s) will be mounted. Do not mount speakers near noise generating equipment (fans, motors) and do not use where a normal conversation cannot be conducted. Ensure power is not connected to speaker wires before installation. Follow all local safety and building codes and route speaker wires to desired wall or ceiling location. Pull approximately 12" of wire through opening in mounting surface.
2. Pull speaker wire through the back of the large opening of the speaker enclosure. Using the supplied mounting hardware, secure the enclosure to the mounting surface (*Figure 1*). Note that two toggle bolt/screws (for sheet rock surfaces) and two wood screws (for securing to solid wood or beams) have been included. Utilize the two washers (supplied) with either toggle bolts, wood screws, or other user supplied hardware.



Use two of the enclosure mounting holes as a template (diagonally opposed), and mark screw hole locations. If toggle bolts will be used, drill two, 1/2" diameter holes in the mounting surface, otherwise drill a hole appropriate for hardware being used.

Figure 1 - Sheet rocked ceiling mounting example

#### Package Contents:

- Back box enclosure
- Grille with speaker assembly
- Two toggle bolt/screws
- Two wood screws
- Two washers
- Two pluggable screw terminals
- Detachable knob
- Four 1" screws for attaching grille assembly

Figure 2 - Amplifier PC Board

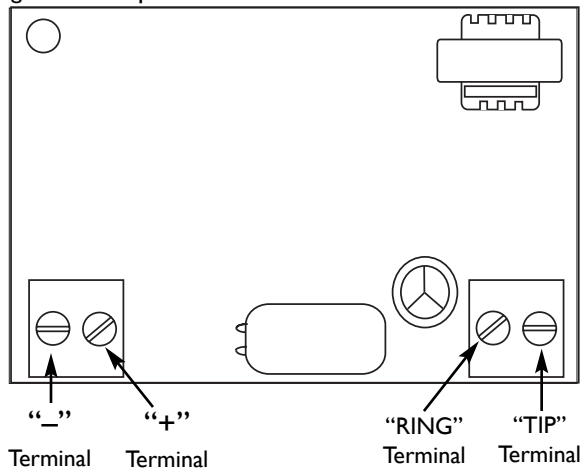
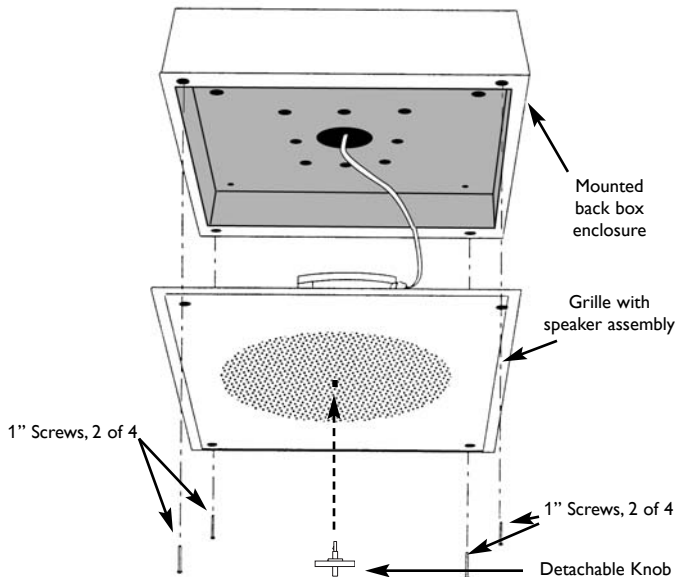


Figure 3 - Secure faceplate



3. Make electrical connections. Power (24V DC) and audio are supplied to each speaker via separate 2-terminal pluggable connectors (Figure 2). When two or more speakers are used in a single paging station, wire all audio and power supply connections in parallel.

Power supply connections are made at the 24V DC screw terminals marked "+" and "-". The speaker power input is not polarity sensitive and will also work properly if the "+" and "-" connectors are reversed.

Audio Input connections are made at the screw terminals marked "TIP" and "RING." Connect all TIP terminals together and all RING terminals together. Reversing these connectors on a speaker will cause it to cancel bass response of adjacent speakers.

4. Secure the speaker/faceplate assembly to the mounted enclosure (Figure 3). Use four 1" screws (included).
5. Attach the rotary knob to adjust the speaker's volume (Figure 3). The knob is detachable to prevent tampering with the volume, and can be left in place or removed as desired.

The AMBSL1 and AMBSQ1 are warranted to be free from defects in material or workmanship for two (2) years from the date of sale to the original purchaser. Any part of the product covered by this warranty that, with normal installation and use, becomes defective will be repaired or replaced by Bogen, at our option, provided the product is shipped insured and prepaid to: Bogen Factory Service Department, 50 Spring Street, Ramsey, NJ 07446, USA. The product will be returned to you freight prepaid. This warranty does not extend to any of our products that have been subjected to abuse, misuse, improper storage, neglect, accident, improper installation or have been modified or repaired or altered in any manner whatsoever, or where the serial number or date code has been removed or defaced.

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