AVAYA

Bi-Directional Reentrant Horn Loudspeaker

Speaker Assembly

The bi-directional speaker must be assembled prior to installation. See Figure 3 on the back of this sheet for speaker assembly information. Make sure to place the washer/seals where indicated and hand tighten the various components - **do not use pliers or similar tools.**

Speaker Installation

STEP 1 - For easier installation, remove the flange (base) from the speaker by unscrewing the wing nut while at the same time pressing inwardly on the wing nut. Place the flange flush with the mounting surface and mark the location of the three holes with either a marker or chisel. It is important that the three holes be exactly aligned with the flange, otherwise you might stress the base or make the connection unsteady (see Figure 1). Insert 3 wall anchors - see diagrams on the back of this sheet for drilling instructions and use of anchors. (Use appropriate hardware for your specific mounting surface.)

NOTE: Speaker may also be strap-mounted through the slot in flange (base) using standard 1/2-inch industrial strapping (not included).

STEP 2 - After mounting the flange, reattach the speaker to the flange and aim the speaker for the desired coverage. A 45[°] downward angle is recommended, but this may vary depending upon speaker layout. Unless otherwise indicated, do not aim speakers directly at each other or poor paging intelligibility may occur.

STEP 3 - Remove the plastic cover to make the electrical connection and set the tap set control (see Figure 2). *Note:* Use 22 AWG shielded, twisted pair on all wire runs. Connect speaker wire shield to the ground (GND) terminal of the amplifier's output. Carry the ground through all speaker cables by tying the shields of the speaker cables together in a "daisy chain" fashion. **Do not connect the shield to the speaker itself.** The shield is only connected at the amplifier end and simply floats.

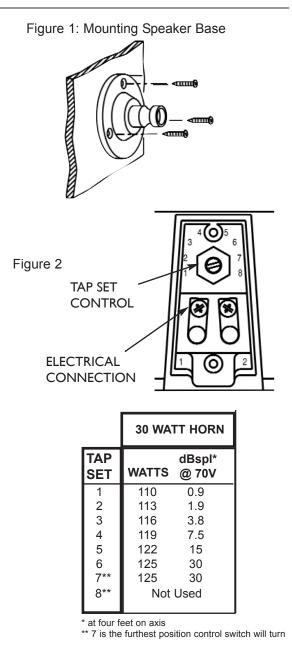
Connect wires as listed below:

Amplifier Outputs Speaker Connections70VTerminal 1COMTerminal 2

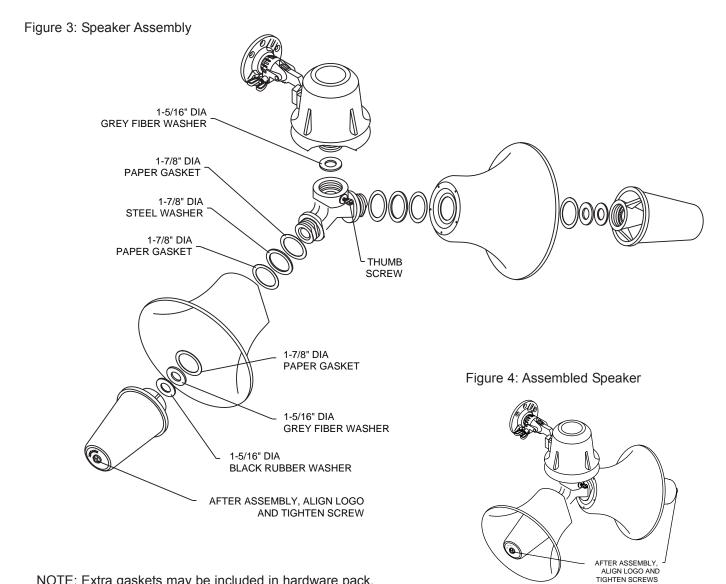
NOTE: The speaker will also work perfectly well with these connections reversed. However, reduced low frequency response may result.

STEP 4 - Adjust the tap set control to the desired setting. See table at right for tap settings and sound pressure levels for the different horn loudspeakers. Replace the plastic protective cover back over the exposed area.

NOTE: The two furthermost clockwise settings on the volume control will produce the same volume.



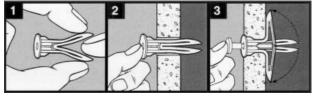
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NOTE: Extra gaskets may be included in hardware pack.

Installing Anchors

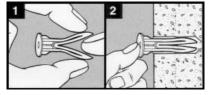
Using Anchors with Hollow Walls



Drill 5/16" diameter hole for each anchor and screw. Fold and insert anchor in hole (see Step 1). Tap anchor until it is flush with the wall (see Step 2). Insert red key to pop anchor open behind wall (see Step 3). DO NOT HAMMER KEY. Remove key. Place speaker flange (base) over anchors.

Insert screws and tighten until flush with the mounting surface. Do not over tighten.

Using Anchors with Solid Walls



Drill 5/16" diameter hole (minimum hole depth for solid walls is 1-1/2") for each anchor and screw.

Fold and insert anchor in hole (see Step 1).

Tap anchor until it is flush with the wall (see Step 2).

Place speaker flange (base) over anchors.

Insert screws and tighten until flush with the mounting surface. Do not over tighten.