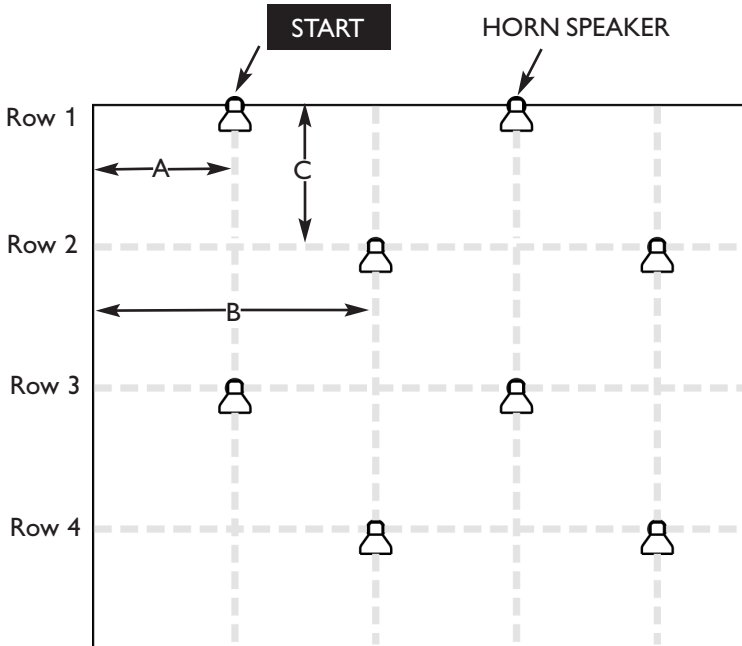


Speaker Layout

Figure 1



The layout of the speakers should be planned prior to installation. Desired mounting height, barring obstructions, is 15 to 20 feet, with the speakers angled downward toward the listening area and facing in the same direction.

Layout starts in one corner of the area. The first speaker in Row 1 should be positioned a distance equivalent to (A) (see Figure 2) from the corner based on the noise level of the area. The next speaker in Row 1 should be a distance equivalent to (B) (see Figure 2) from the first speaker. Each additional speaker in the row should use this same spacing.

Row 2 starts a distance equivalent to (C) (see Figure 2) from Row 1 and, like Row 1, each speaker should be a distance apart equivalent to (B).

Row 3 starts a distance equivalent to (C) from Row 2. Continue this pattern of alternating rows until the area is appropriately covered.

For areas that include high shelving or corridors, speakers should be installed so that they project down the aisles between the shelves or down through the corridors.

The spacing of the speakers can be adjusted so that the speakers are evenly spaced in a row.

NOTE: Each environment is unique. This layout plan is general in nature and may not be applicable for every installation.

Figure 2

	PLACEMENT			
	A	B	C	Volume Setting
Low Noise (55dB-65dB)	60 ft.	120 ft.	80 ft.	1/2 Rotation
Medium Noise (65dB-75dB)	50 ft.	100 ft.	60 ft.	Full Clockwise

Speaker Installation

STEP 1 - For easier installation, remove the flange (base) from the speaker by unscrewing the wing nut. Place the flange flush with the mounting surface and mark the pivot area using either a marker or chisel. Drill the appropriately sized hole and screw the flange to the surface. Place another screw in the front of the flange for swivel control purposes (see Figure 3). (Use appropriate hardware for your specific mounting surface.)

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.

STEP 3 - Make the electrical connection using the two wires connected to the speaker. The suggested amplifier connections are:

Amplifier Outputs	Speaker Connections
70V	Red Wire
COM	Black Wire

***NOTE:** The speaker will also work perfectly well with these connections reversed. However, it is important to be consistent in the wiring of the speakers in the system.*

STEP 4 - Adjust the volume control located on the horn to the desired setting. See Figure 2 for the suggested initial settings based on the ambient noise level of the environment.

Figure 3

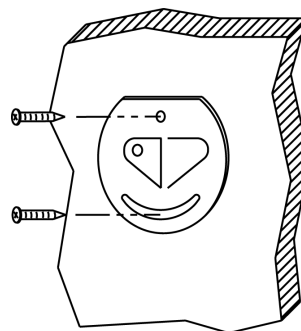
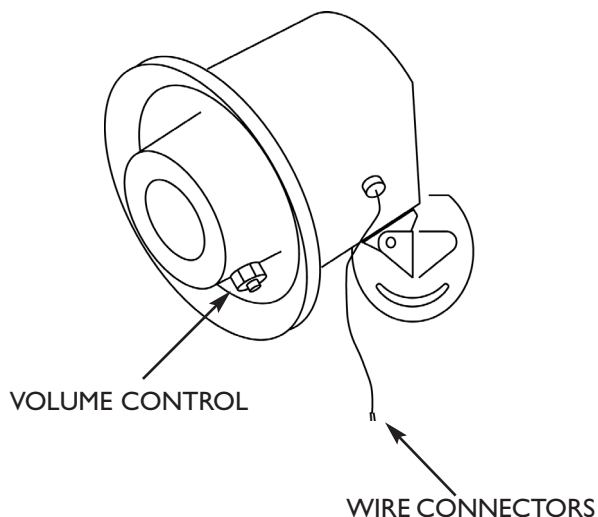


Figure 4



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