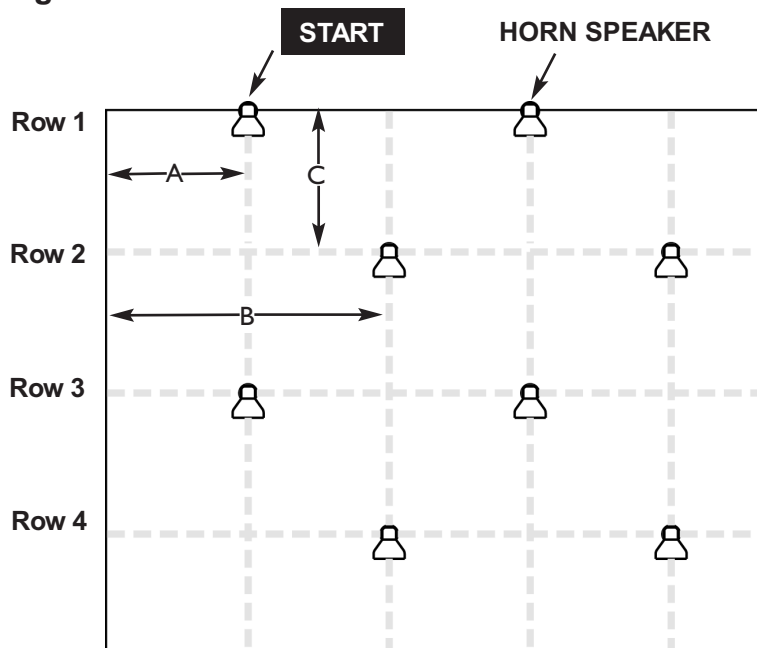


Easy Design™ Speaker Model HS7EZ

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-degree 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

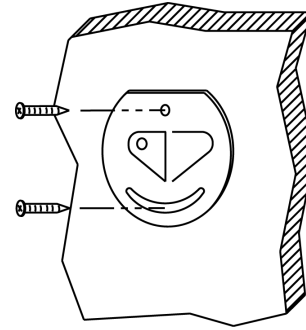
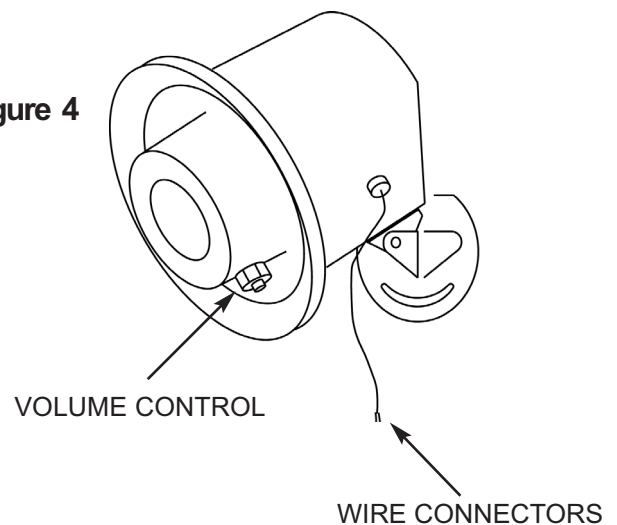


Figure 4



Limited Warranty; Exclusion of Certain Damages

The HS7EZ is warranted to be free from defects in material or workmanship from the date of sale to the original purchaser for the lifetime of the product. 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.

THE FOREGOING LIMITED WARRANTY IS BOGEN'S SOLE AND EXCLUSIVE WARRANTY AND THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY. BOGEN MAKES NO OTHER WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED AND EXCLUDED TO THE MAXIMUM EXTENT ALLOWABLE BY LAW. Bogen's liability arising out of the manufacture, sale or supplying of products or their use or disposition, whether based upon warranty, contract, tort or otherwise, shall be limited to the price of the product. IN NO EVENT SHALL BOGEN BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS, LOSS OF DATA OR LOSS OF USE DAMAGES) ARISING OUT OF THE MANUFACTURE, SALE OR SUPPLYING OF PRODUCTS, EVEN IF BOGEN HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR LOSSES. Some States do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from State to State.

Products that are out of warranty will also be repaired by the Bogen Factory Service Department -- same address as above or call 201-934-8500. The parts and labor involved in these repairs are warranted for 90 days when repaired by the Bogen Factory Service Department. All shipping charges in addition to parts and labor charges will be at the owner's expense. All returns require a Return Authorization number.