



IMPRESSION SERIES

FREESTANDING SPEAKERS

Owner's Manual

INTRODUCTION

Congratulations on your purchase of Impression Series speakers! The Impression Series is the result of many years of research and development dedicated to producing high quality products for home audio and home theater systems

This manual contains features, setup recommendations and specifications for the Impression Series speakers. It is recommended you thoroughly read through the material contained in this manual before connecting your speakers. Doing this will ensure you have a good understanding of how to setup your speakers for optimum performance and allow it to provide you years of listening enjoyment.

SPEAKERS



BREAK-IN PERIOD

Allow several hours of listening time to adequately break-in your Impression Series speaker. As your speaker breaks-in during the first few hours of listening, the driver suspension will loosen. Following this initial break-in period, there will be an increase in low-frequency response, improved definition, and increased clarity and detail.

CARE AND CLEANING

To maintain your speaker and/or subwoofer appearance, we recommend carefully wiping it with a clean, damp soft cloth. To help clean dust from the grille cloth, we recommend using a vacuum with a brush attachment.

FEATURES

The Impression Series includes a sleek tower, an LCR/surround channel, along with an elegantly matched bookshelf speaker. The cabinets are constructed from medium density fiberboard (MDF) because of its inert properties which, combined with the beautiful curved cabinet shape, prevent sound coloration accomplished via minimized cabinet diffraction. The finish is offered in a stealthy phantom black, this satin finish is designed for dark theater rooms where reflections are not ideal, and it also resists scratches, scrapes, and smudges. A gorgeous high-gloss black finish is also available, made to complement any decor.

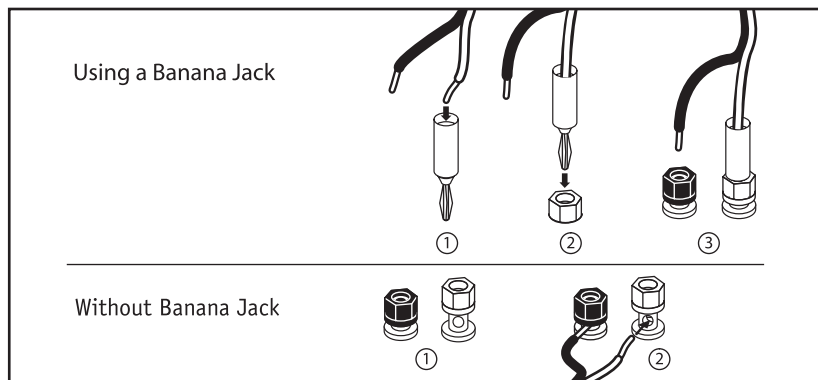
The Impression Series Standard: Features poly-mica coned mid-range woofers, resisting flexing and contribute to the accurate reproduction of the audio signal, providing excellent sound quality. The high quality 1-inch fabric-dome tweeter delivers smooth upper-mid and high frequencies, and higher power handling is achieved through the use of magnetic liquid cooling. To protect the tweeter against being over-driven, a self-resetting poly-switch (DC current limiting device) is incorporated in the crossover network. High quality crossover networks allow each speaker to operate at its optimal performance. 5-way binding posts ensure solid electrical connections and accept a variety of wire gauge. Available in satin black and high-gloss black.

The Impression Series Elite: Features aluminum-coned mid-range woofer drivers. Aluminum is extremely light and rigid which provides a noticeable improvement in speed and tonal accuracy and thus presents true, clean life-like audio reproduction. Combined with a 1-inch highly accurate aluminized nano-silk tweeter the result is amazing, uncolored sound, especially for a speaker line at this price. Higher power handling is achieved through the use of magnetic liquid cooling in the tweeter. To protect the tweeter against being over driven, a self-resetting poly-switch is also incorporated in the crossover network. High quality crossover networks allow each speaker to operate at its optimal performance. 5-way binding posts ensure solid electrical connections and accept a variety of wire gauge. Available in satin black and high-gloss black.

ATTACHING SPEAKER WIRES

If using a banana jack, attach the matching positive or negative wire and push directly into binding post top hole.

If not using a banana jack, simply loosen the binding nut to allow the hole in the side of the terminal to become exposed. Strip $\frac{1}{4}$ -inch of the insulation from the end of the speaker wire and insert the exposed wire end into the now exposed hole in the side of the terminal. Tighten the binding nut by turning the nut clockwise until the speaker wire is secured. Repeat for the other speaker wire(s) as necessary.



ROOM SETUP SUGGESTIONS

In order to obtain the best possible sound from your speaker system, it is important to determine where the speakers will sound best in your listening room. Room reflections from the floor, ceiling and side walls influence the balance, imaging and overall sonic quality at the listening position. Experiment with speaker placement to determine which location offers the best overall sound. As a general guide, use the room setup diagram shown on pages 7-8 and the following descriptions when setting up a home theater system. Some speakers shown in the diagram may not always be applicable to your system.

For more setups see our web page at http://rbhsound.com/surrounds_setups.php.

Front Main Speakers

As a starting point, place your left and right tower speakers at least 15 inches from the wall and 7-feet apart from each other. The distance from the listening position to each speaker should be close to the distance that separates the two main speakers. Angling the speakers inward towards the listening position may give a more spacious and realistic sound stage.

Center Channel Speaker

The center channel speaker should be placed in the center between both left and right main speakers. Often this positioning dictates placing the speaker either directly above or below a television monitor. The center channel speaker may be placed in a horizontal (lying down) or vertical (standing) position.

Rear Surround Speakers

The surround speakers may be placed either above, behind or to the sides of the listening position. The listening position should be centered between the surround speakers. For best performance you may want to experiment with angling the surround speakers either towards or away from the listening position. Surround speakers, the optimal location for these is about 5-6 feet high on the walls to the left and right of the listening position.

Subwoofer

In order to obtain the best possible sound from your subwoofer, it is important to determine where the subwoofer will sound best in your listening room. Sound reflections from the floor, ceiling and side walls influence the balance, imaging and overall sonic quality at the listening position. Experiment with subwoofer placement to determine which location offers the best overall sound.

Placement of the subwoofer will largely determine quality, quantity and extension of the bass frequencies within your listening room. Bass frequencies are reinforced by close room boundaries. Placing the subwoofer close to a corner will make the subwoofer sound louder and boost the very lowest frequencies.

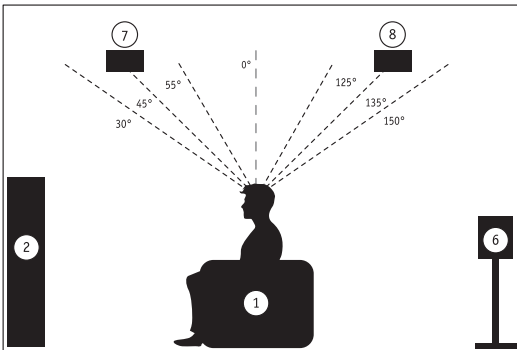
Placing the subwoofer away from walls will provide the least reinforcement, making the bass sound subjectively thinner than if the woofer were closer to a wall. Good results can usually be obtained by placing a subwoofer along a wall 1-3 feet from a corner. Experiment with placement of the subwoofer and the sub-amplifier controls to achieve the proper bass balance.

ROOM SETUP SUGGESTIONS (continued)

IMPORTANT NOTICE REGARDING BASS MANAGEMENT: It is important the signal being sent to the subwoofer be a non-boosted or “flat” signal. Check the settings on your receiver or processor to make sure any “bass boost”, “super bass” or “loudness” is set to Off. In most cases a home theater receiver or processor will determine the crossover frequency through bass management settings. In this configuration, connect the receiver or processor to the LFE (Low Frequency Effect). Your subwoofer will now reproduce the bass frequencies as they were originally recorded. Use the subwoofer level control and the individual bass management control within the receiver or processor to adjust the subwoofers’ volume if necessary. Once set, the volume controls should not need to be altered as the subwoofers’ volume will track with the master volume control of your receiver or processor. Use Line Input only if bypassing your receivers internal processing to deliver a full signal to your subwoofer which is then managed by the subwoofers’ frequency and volume control.

STANDARD 7.2.4 SETUP WITH OVERHEAD SPEAKERS

1. Listening/seating position
2. Left and right front speakers
3. Center speaker
4. Subwoofer(s)
5. Left and right surround speakers
6. Left and right rear surround speakers
7. Left and right top front overhead speakers
8. Left and right top rear overhead speakers



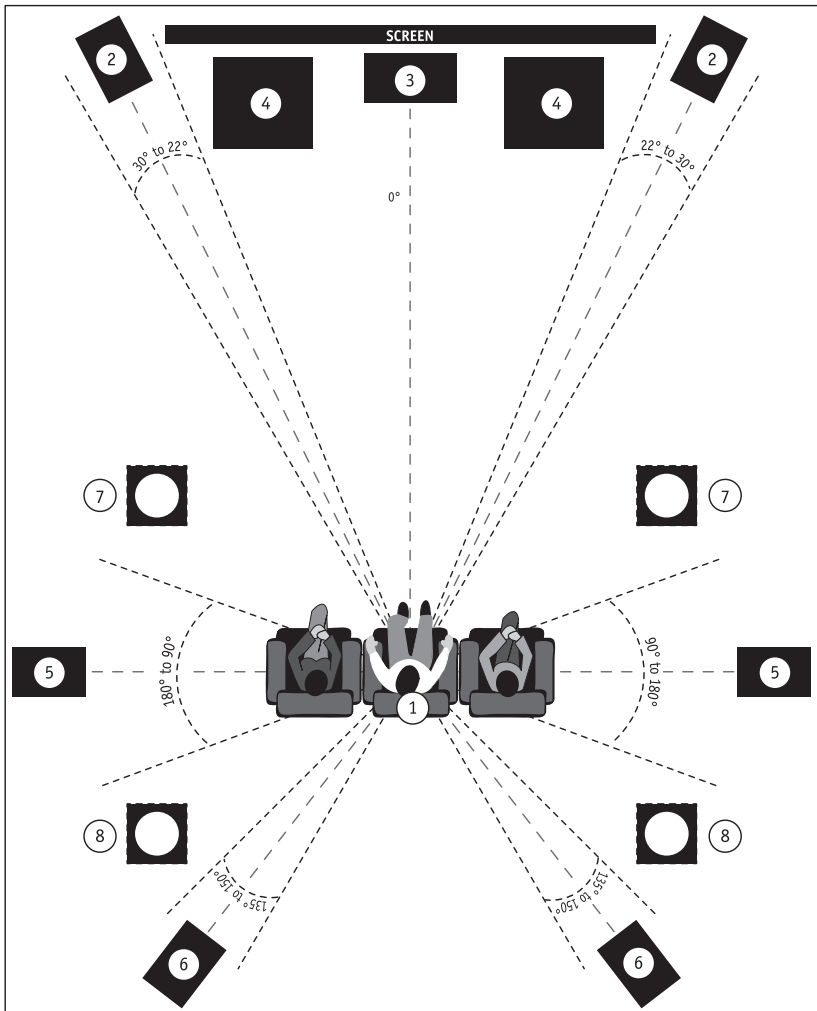
7.2.4

This number represents the number of traditional speakers (front, center, surround, etc.)

This number represents the number of subwoofers you can connect to your receiver

This number refers to how many overhead or Dolby Atmos enabled speakers you can use in this setup

ROOM SETUP SUGGESTIONS (continued)



Speaker positioning for Dolby 7.2.4 and Dolby Atmos borrowed from Dolby Laboratories, Inc. Dolby Atmos is a registered trademark of Dolby Laboratories Licensing Corporation.

TOWER SPEAKER OUTRIGGER INSTALLATION

Use these attractive, tower speaker outriggers for the Impression Series tower speakers to create a wider support base for the cabinet. These outriggers make your tower speakers more stable, and are ideal when placing them on a thickly carpeted floor.

Package contents include:

- (A) 1 each back outrigger
- (B) 1 each front outrigger
- (E) 4 metal spike feet
- (E) 4 each top cap nuts
- (E) 4 each threaded adjustment washers
- (C) 4 each metal feet rests
- (F) 4 each protective pads
- (D) 6 each machine screws

The metal spike feet work best on carpeted surfaces, we have included a protective pad in metal and a paper one that attaches to the metal pad to protect tile or wood floors.

Attach the tower speaker outrigger plates to the bottom of the speaker with the machine screws provided, as shown in figure 2 below. The larger plate should be at the front of the speaker and the smaller plate at the back of the speaker.

NOTE: To prevent scratching or damaging of the cabinet, turn the tower upside down on a soft surface when attaching the outrigger feet.

Attach the metal spike feet using the top cap nuts as shown in figure 1. Adjust the level/height using the adjustment washer above the metal spike feet.

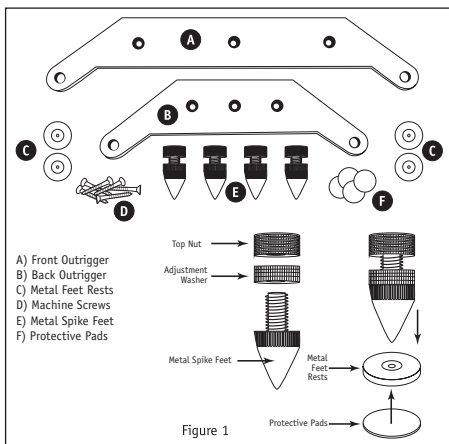


Figure 1

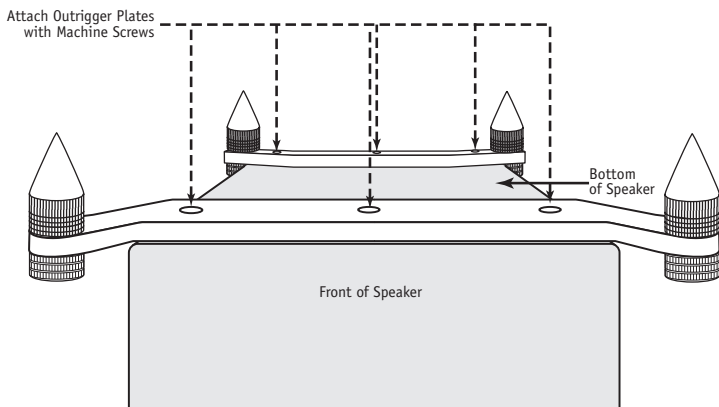


Figure 2

SPECIFICATIONS

Model	R-55 Tower	R-515 LCR/Surround	R-5 Bookshelf
Frequency Response:	37Hz – 25kHz	57Hz – 25kHz	57Hz – 25kHz
Sensitivity:	87dB	87dB	85.5dB
Recommended Power:	50-250 Watts	25-175 Watts	25-125 Watts
Woofers:	(3) 6½" (165mm) Poly-mica (2) 5¼" (133mm) Poly-mica	(2) 5¼" (133mm) Poly-mica	(1) 5¼" (133mm) Poly-mica
Tweeter:	(1) 1" (25mm) Fabric Dome	(1) 1" (25mm) Fabric Dome	(1) 1" (25mm) Fabric Dome
Tweeter Protection:	Yes	Yes	Yes
Impedance:	6 Ohms	6 Ohms	8 Ohms
Crossover Frequencies:	120Hz / 3000 Hz	3000 Hz	3000 Hz
Dimensions:	8.19" (208mm) W 47.25" (1200mm) H 11.73" (298mm) D	21.65" (550mm) W 6.89" (175mm) H 7.13" (181mm) D	6.89" (175mm) W 12.6" (320mm) H 8.08" (205mm) D
Cabinet:	High-gloss Black or Phantom Black	High-gloss Black or Phantom Black	High-gloss Black or Phantom Black
Weight:	52 lbs. (23.59 kg)	15.16 lbs. (6.88 kg)	10.51 lbs. (4.77 kg)
Speaker Bracket Holes:	N/A	N/A	2.36" (60mm) (Center to Center) 1/4-inch 20 Thread
Warranty:	5 Years	5 Years	5 Years

SPECIFICATIONS

Model	R-55E Tower	R-515E LCR/Surround	R-5E Bookshelf
Frequency Response:	35Hz – 30kHz	55Hz – 30kHz	55Hz – 30kHz
Sensitivity:	88dB	88dB	86dB
Recommended Power:	50-250 Watts	25-175 Watts	25-125 Watts
Woofers:	(3) 6½" (165mm) Aluminum (2) 5¼" (133mm) Aluminum	(2) 5¼" (133mm) Aluminum	(1) 5¼" (133mm) Aluminum
Tweeter:	(1) 1" (25mm) Nano-silk Dome	(1) 1" (25mm) Nano-silk Dome	(1) 1" (25mm) Nano-silk Dome
Tweeter Protection:	Yes	Yes	Yes
Impedance:	6 Ohms	6 Ohms	8 Ohms
Crossover Frequencies:	120Hz / 3000 Hz	3000 Hz	3000 Hz
Dimensions:	8.19" (208mm) W 47.25" (1200mm) H 11.73" (298mm) D	21.65" (550mm) W 6.89" (175mm) H 7.13" (181mm) D	6.89" (175mm) W 12.6" (320mm) H 8.08" (205mm) D
Cabinet:	High-gloss Black or Phantom Black	High-gloss Black or Phantom Black	High-gloss Black or Phantom Black
Weight:	55 lbs. (24.95 kg)	17 lbs. (7.71 kg)	11 lbs. (4.99 kg)
Speaker Bracket Holes:	N/A	N/A	2.36" (60mm) (Center to Center) 1/4-inch 20 Thread
Warranty:	5 Years	5 Years	5 Years

TROUBLESHOOTING

Situation:	Probable Cause:	Solution:
No sound from speakers.	Speaker wire not connected.	Make sure wire is connected at both the speaker and the amplifier observing proper polarity.
No sound from one speaker.	Speaker selector on amplifier is not on. Balance control on receiver or pre-amp is not centered. Speaker wire not securely connected.	Activate proper selector on amplifier. Place balance control in the center. Check all connections at amplifier and speakers.
Very little bass and/or imaging.	Speakers are wired out of phase.	Check entire system for proper polarity and make adjustments as necessary.

WARRANTY

Your RBH Sound Impression Series speakers are covered by a limited warranty against defects in materials and workmanship for a period of 5 years from the original date of purchase. This warranty is provided by the authorized RBH Sound dealer where the speaker was purchased. Warranty repair will be performed only when your purchase receipt is presented as proof of ownership and date of purchase. Defective parts will be repaired or replaced without charge by your dealer's store or locations authorized by RBH Sound to service RBH Sound products. Charges for unauthorized service and transportation cost are not reimbursable under this warranty. This warranty becomes void if the product has been damaged by alteration, misuse or neglect. RBH Sound assumes no liability for property damage or any other incidental or consequential damage whatsoever which may result from the failure of this product. Any and all warranties of merchantability and fitness implied by law are limited to the duration of this express warranty. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you. 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.

WARRANTY REGISTRATION

Please fill out and submit the registration form found online at <http://rbhsound.com> to register your speakers and/or subwoofers.

Redefining the Way You Experience Sound.TM



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