



Signature Series

OWNERS MANUAL

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INTRODUCTION


Congratulations on your purchase of an RBH loudspeaker system! Your speakers are the result of many years of research and development dedicated to producing high quality products for home audio and audio/video systems.

This manual contains features, setup recommendations and specifications for RBH Signature Series loudspeaker systems. We recommend that you thoroughly read through the material contained in this manual before connecting your loudspeakers. This will ensure that you have an understanding of how to setup your speakers for optimum performance.

BREAK IN PERIOD

Plan on giving your speakers 10-15 hours of playing time to adequately break in. As the speakers break in, the driver suspension will loosen up. The result will be an increase in low frequency response, improved definition, clarity and detail.

F E A T U R E S

 At the heart of our Signature Series loudspeaker systems are proprietary aluminum woofers and midrange drivers. The special aluminum cone material combines stiffness, low mass and self damping properties in a manner that allows virtually uncolored presentation of program material.

A powerful magnet, extended voice coil and bumped back plate give the bass/midrange drivers high excursion capability. This ensures accurate dynamic reproduction. The drivers are shielded by using a steel cup and additional magnet to cancel any stray magnetic field that may cause interference with video equipment such as tube televisions.

For high frequencies, a premium quality silk dome tweeter is used. This tweeter uses Ferro Fluid[®] liquid cooling to allow greater power handling and is also magnetically shielded.

Steep acoustic slope crossovers are used to integrate drivers. The use of steep crossover slopes allow high power handling, minimize driver interaction anomalies, and maximize the clarity with which each driver is able to produce its respective frequency band.

Cabinets are constructed of MDF and braced internally. Front baffles are extra thick to prevent any excess acoustic radiation and have a narrow profile to minimize cabinet diffraction. Large oversized gold binding posts ensure a good electrical contact. Sophisticated computer modeling and measurement techniques are used extensively in the RBH loudspeaker design process.

SETUP SUGGESTIONS

In order to extract 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. We suggest you experiment with speaker placement to determine which location offers the best overall sound. The diagram on page 5 should be used as a *general* guide when setting up a home theater system and follows the descriptions in the following paragraphs. Some speakers shown in the diagram will not always be applicable to your individual system.

As a starting point, we recommend placing your left and right MAIN speakers at least 15 inches from the back 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. Main speakers other than the models 641-SE, 1044-SE and 1266-SE should be placed on stands which elevate the tweeter close to the height of the ear.

The models 41-SE, 441-SE, 61-SE and 661-SE come with foam port plugs installed in the rear firing ports. We recommend removing these foam plugs unless the speakers are placed inside a cabinet or similar enclosed area.

The models 641-SE, 1044-SE and 1266-SE come with stabilizing feet. To install, place each foot so that the center hole of the foot is over each pilot hole on the bottom of the cabinet. Use the supplied screws to attach, noticing that the pilot hole is drilled on an angle. This is done so that the foot will be pulled in tight against the speaker cabinet. Install either the supplied spike or rubber mount as necessary into the threaded insert.

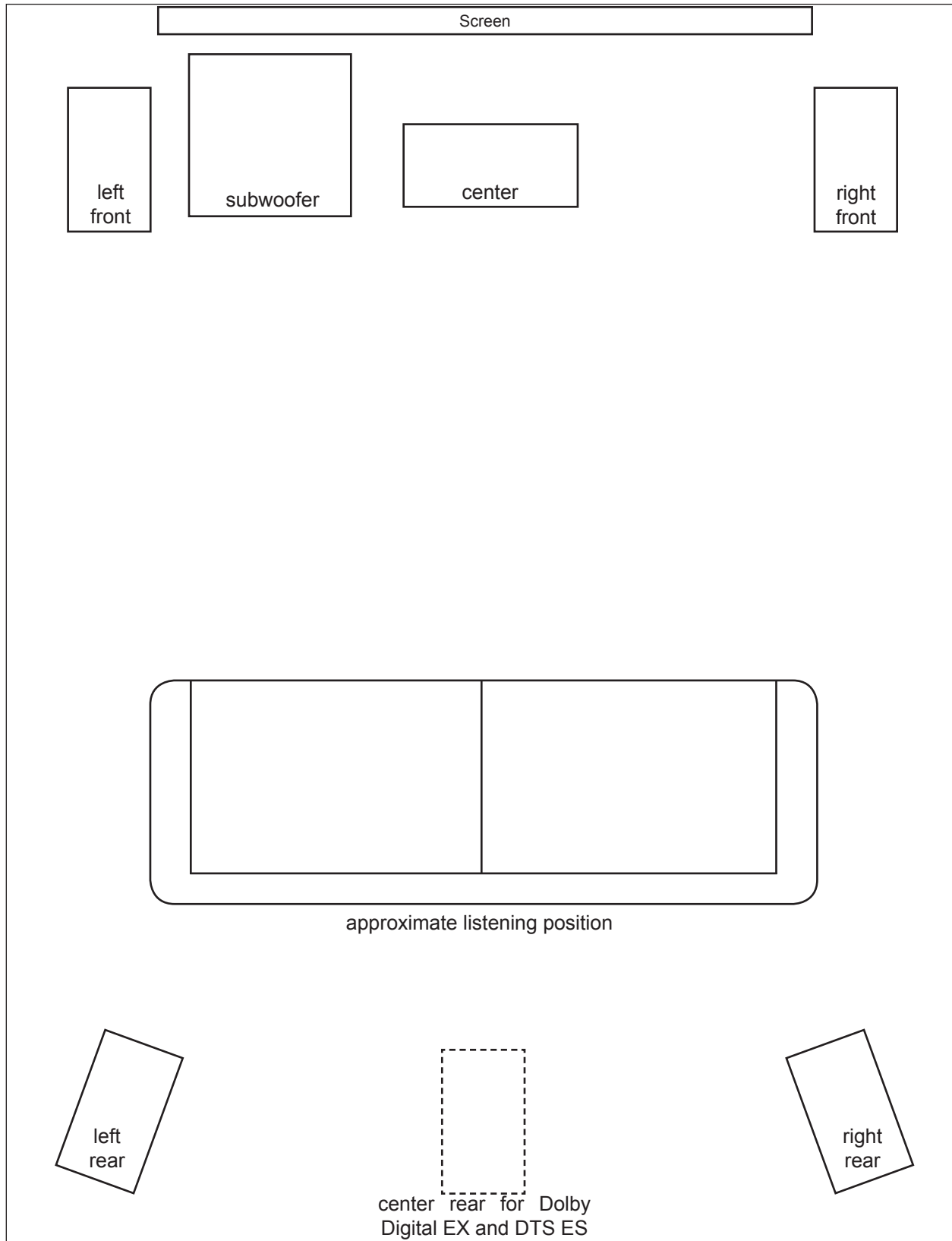
SETUP SUGGESTIONS CONTINUED

In home theater applications, the CENTER channel speaker should be placed in the center between both left and right main speakers. Often times this positioning dictates placing the speaker either directly above or below a television monitor. As mentioned previously, all RBH Signature Series speakers are video shielded, therefore the speaker may be placed close to a television without cause for concern. The speaker may be used in a horizontal (lying down) or vertical position.

SURROUND* speakers may be placed either behind or to the sides of the listening position. The listening position should be at the center of both surround speakers. For best performance you may want to experiment with angling the surround speakers either towards or away from the listening position.

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 in 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 close to a wall. Good results can usually be obtained by placing a subwoofer along a wall 3-5 feet from a corner. We recommend that you experiment with subwoofer placement and the sub-amplifier controls to achieve the proper bass balance.

*There are several different surround formats available. Dolby Pro-Logic, Pro-Logic II, Dolby Digital and DTS generally have a 5 speaker plus subwoofer requirement. Dolby Digital EX and DTS ES add a center rear speaker. Please consult your audio/video professional to determine which system is best for you and how many speakers you will require.



TROUBLESHOOTING

Situation:	Probable Cause:	Solutions:
No sound from speakers.	Speaker wire not connected.	Make sure wire is properly connected at both the speaker and the amplifier observing proper polarity.
	Speaker selector on amplifier is not on.	Activate proper speaker selector on amplifier.
No sound from one speaker.	Balance control on receiver or preamp is not centered.	Place balance control in the center.
	Speaker wire not completely connected.	Check all connections at amplifier and speakers.
Only the woofer or midrange/tweeter are playing.	Bi-amp clips are not intact.	Make certain gold bi-amp clips are in place and tightened down.
Very little bass and/or imaging.	Speakers are wired out of phase.	Check entire system for proper polarity and make adjustments as necessary.
	Woofers are cancelling each other on 1044-SE or 1266-SE models.	Experiment with room and determine if woofers need to point toward or away from each other.

WARNING: Be sure to REMOVE bi-amp clips COMPLETELY when bi-amping or bi-wiring.

CARE & CLEANING

To maintain speaker appearance, we recommend an occasional application of furniture grade polish to the wood surface of the cabinet. To clean dust from the grille cloth, use a vacuum with a brush attachment.

SPECIFICATIONS

MODEL	FREQUENCY RESPONSE	SENSITIVITY	RECOMMENDED AMPLIFIER POWER	DRIVE UNITS	CROSSOVER FREQUENCIES	IMPEDANCE	DIMENSIONS	WEIGHT
41-SE	60Hz-20kHz ± 3dB	86dB 1w/1M	50-120 WATTS	1) 1" SILK DOME TWEETER 1) 4" ALUMINUM CONE MIDWOOFER	3000 Hz	8 OHMS	11½"H x 6¼"W x 10"D	12 LBS.
61-SE	45Hz-20kHz ± 3dB	87dB 1w/1M	50-150 WATTS	1) 1" SILK DOME TWEETER 1) 6 ½" ALUMINUM CONE MIDWOOFER	2700 Hz	8 OHMS	14½"H x 8¾"W x 11½"D	24 LBS.
441-SE	55Hz-20kHz ± 3dB	89dB 1w/1M	50-150 WATTS	1) 1" SILK DOME TWEETER 2) 4" ALUMINUM CONE MIDWOOFERS	3000 Hz	4 OHMS	18"H x 6¼"W x 10¼"D	20 LBS.
661-SE	45Hz-20kHz ± 3dB	91dB 1w/1M	50-200 WATTS	1) 1" SILK DOME TWEETER 2) 6 ½" ALUMINUM CONE MIDWOOFERS	2700 Hz	4 OHMS	22"H x 8¾"W x 11½"D	37 LBS.
44-SE	55Hz-20kHz ± 3dB	88dB 1w/1M	50-150 WATTS	2) 1" SILK DOME TWEETERS 2) 4" ALUMINUM CONE MIDWOOFERS	3000 Hz	4 OHMS	11½"H x 12"W x 6¼"D	20 LBS.
66-SE	45Hz-20kHz ± 3dB	90dB 1w/1M	50-200 WATTS	2) 1" SILK DOME TWEETERS 2) 6 ½" ALUMINUM CONE MIDWOOFERS	3000 Hz	4 OHMS	14"H x 16"W x 8½"D	30 LBS.
641-SE	45Hz-20kHz ± 3dB	85dB 1w/1M	50-200 WATTS	1) 1" SILK DOME TWEETER 1) 4" ALUMINUM CONE MIDWOOFER 2) 6 ½" ALUMINUM CONE WOOFERS	3000 Hz, 150 Hz	4 OHMS	39"H x 6¼"W x 10"D	43 LBS.
1044-SE	30Hz-20kHz ± 3dB	88dB 1w/1M	50-250 WATTS	1) 1" SILK DOME TWEETER 2) 4" ALUMINUM CONE MIDWOOFERS 1) 10" ALUMINUM CONE WOOFER	3000 Hz, 100 Hz	4 OHMS	42"H x 6¼"W x 15½"D	62 LBS.
1266-SE	27Hz-20kHz ± 3dB	88dB 1w/1M	50-300 WATTS	1) 1" SILK DOME TWEETER 2) 6 ½" ALUMINUM CONE MIDWOOFERS 1) 12" ALUMINUM WOOFER	2700 Hz, 100 Hz	4 OHMS	48"H x 8¾"W x 16½"D	90 LBS.

All Signature Series speakers are finished in a black woodgrain with high gloss tops and bases. Signature Series speakers are also available in over 30 different real wood veneers and high gloss black. Please see your authorized RBH dealer for details and wood color options.

W A R R A N T Y

Your RBH Sound Signature Series loudspeaker is 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 loudspeaker 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 the location designated by your dealer that is authorized to service RBH 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. The warrantor 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.

It is the policy of RBH Sound to continuously incorporate improvements into products. All specifications are subject to change without notice.

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