T SERIES

OWNERS MANUAL

CONTENTS

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 T Series High Performance loudspeaker systems. We recommend that you thoroughly read through the material contained in this manual before connecting your loudspeakers. This will insure 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 defintion, clarity and detail.

F E A T U R E S

At the heart of our T Series loudspeaker system is a proprietary aluminum cone bass/midrange driver (speaker). The unique 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 driver high excursion capability, which ensures accurate dynamic reproduction. The drivers are shielded by using a steel cup and an additional magnet to cancel any stray magnetic field that many cause interference with video equipment such as tube televisions.

For high frequencies, a silk dome tweeter was developed. This tweeter uses Ferro Fluid™ liquid cooling allowing the tweeter to handle greater power while retaining detail and accuracy.

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. Front baffles are extra thick to prevent any excess acoustic radiation. Large oversized binding posts ensure a good electrical contact. Sophisticated computer modeling and measurement techniques are used extensively in the RBH loudspeaker design process.

SETUP SUGGESTIONS

The T Series is a modular speaker system designed to be used individually or with the RBH 1010-SEN subwoofer. This combination with the subwoofer provides for full range reproduction of the program material. There are three basic models or configurations within the T Series:

The **T-1**: The T-1 is the main speaker section that reproduces the high and midrange frequencies. The T-1 can be used by itself as a main, center or rear speaker, or can be used as part of the next two options;

The **T-2**: The T-2 is a T-1 with the addition of a 1010-SEN subwoofer. The T-1 is typically placed on top of the 1010-SEN by using the bracket system included with this configuration.

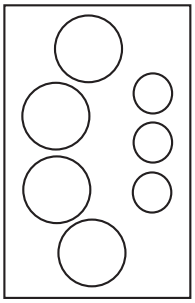
The **T-3**: The T-3 is a T-2 system, with the addition of a second 1010-SEN subwoofer. The second subwoofer is typically placed on top of the existing T-2, but can also be placed elsewhere in the room.

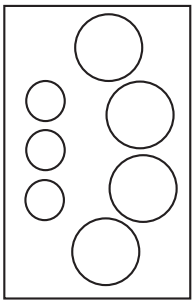
In order to extract the best possible sound from your speaker system, it is important to determine where the speakers will sound best in your listening room. Room reflections from the floor, ceiling and side walls influence the balance, imaging and overall sonic quality at the listening position. We suggest you experiment with speaker placement to determine which location offers the best overall sound.

For two channel listening, 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 slightly inward towards the listening position may give a more spacious and realistic sound stage.

SETUP SUGGESTIONS CONTINUED

It is imperative that the T-1 cabinet's are positioned so that the tweeters face toward the center of the listening position. If the tweeters are not placed properly, there will be a great reduction in imaging, soundstaging and overall performance of the speaker system. Proper setup is shown below.





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 or screen. As mentioned previously, RBH T Series speakers are video shielded, therefore the speaker may be placed close to a television without cause for concern. If using an RBH Signature Series speaker, the speaker may be used in a horizontal (lying down) or vertical position. If using a T-1 as the center channel with the speaker positioned below or equal to the plane of the MAIN T-1's, the tweeters must face up (toward the inside of the T-1 main speakers). If using a T-1 as the center channel with the speaker positioned above the plane of the MAIN T-1's, the tweeters must face down (toward the inside of the T-1 main speakers).

SETUP SUGGESTIONS CONTINUED

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. All RBH Signature Series and Signature Inwall loudspeakers are sonically matched with the T Series for seamless integration in a home theater setting.

In a T-2 configuration, the SUBWOOFER (1010-SEN) generally sits below the T-1, connected by the clamping bracket (page 6). As mentioned proviously,in a T-3 configuration, the second set of subwoofers can be mounted either above the T-1, connected by a second set of clamping brackets, or placed elsewhere in the room. Connection of the subwoofer is done by speaker wire, not by audio interconnect.

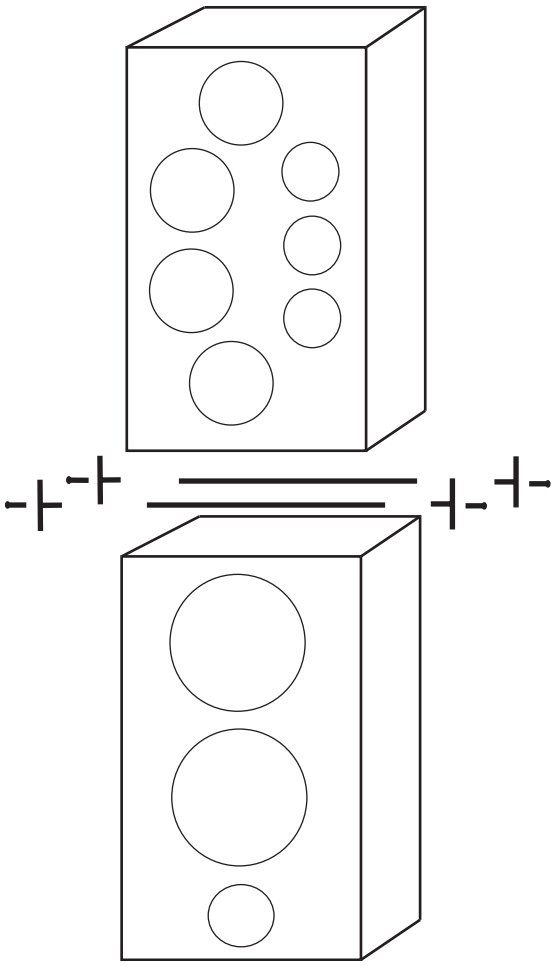
When configured as a T-2P or T-3P, an RBH SA-400 is used to power the subwoofer. The SA-400 is a monoblock subwoofer amplifier. This amplifier is designed to power 1 1010-SEN at a time, which is why 2 SA-400 amplifiers complete a T-2P system and 4 SA-400 amplifiers complete a T-3P system. For proper instructions on the setup and operation of the SA-400 subwoofer amplifier, please refer to the owners manual included with the SA-400.

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

*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.

CLAMPING BRACKET

The clamping bracket, provided with the T-2 and T-3 system, consists of 2 end pieces, 2 hex head bolts and 1 round rod, all pieces are machined from solid aluminum. To install, attach an end piece to each end of the rod with the screws and place in between the two cabinets from side to side (not front to back). Two of these are required in between each speaker. As the bolts are tightened, pressure will be created holding the top and bottom sections firmly together. The diagram below illustrates this procedure.



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 and/or subwoofers are wired out of phase.	Check entire system for proper polarity and make adjustments as necessary.

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
T-1	45Hz-20kHz ± 3dB	91dB 2.83v/1m	100-500 Watts	3) 1" silk dome tweeters 4) 6½" aluminum cone midwoofers	2500 Hz	4 Ohms	30"H x 13"W x 18"D	100 lbs.
1010-SEN	20Hz-100Hz ± 3dB	91 dB 2.83v/1m	200-400 Watts	2) 10" aluminum come subwoofers	n/a	4 ohms	30"H x 13'W x 18"D	90 lbs.
T-2N **T-2P**	20Hz-20kHz ± 3dB	91dB 2.83v/1m	100-500 Watts	3) 1" silk dome tweeters 4) 6 ½" aluminum cone midwoofers 2) 10" aluminum cone subwoofers	2500 Hz	4 Ohms*	61"H x 13"W x 18"D	190 lbs.
T-3N **T-3P**	20Hz-20kHz ± 3dB	91dB 2.83v/1m	100-500 Watts	3) 1" silk dome tweeters 4) 6½" aluminum cone midwoofers 2) 10" aluminum cone subwoofers	2500 Hz	4 Ohms*	92"H x 13"W x 18"D	280 lbs.

*Impedance listed is for each cabinet.
T-1 = 4 Ohms
1010-SEN = 4 Ohms

All T Series speakers are finished in a black woodgrain with high gloss tops and bases. T 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.

WARRANTY

Your RBH Sound T 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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