



# CT-5/CT-7 Compact Theater Owner's Manual

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## Introduction

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

This manual contains features, setup recommendations and specifications for the RBH CT Series speakers. We recommend you thoroughly read through the material contained in this manual before connecting your speakers. This will ensure you have a good understanding of how to setup your speakers for optimum performance and allow for years of listening enjoyment.

## CT Series Loudspeakers



## Break-in Period

Allow 10-15 hours of listening time to adequately break-in the RBH CT Series loudspeaker systems. As the speakers break-in, the driver suspension will loosen. The result of break-in will be an increase in low frequency response, improved definition, and increased clarity and detail.

## Care and Cleaning

To maintain speaker appearance, we recommend wiping them down with a clean and damp, soft cloth. To clean dust from the grilles, use a vacuum with a brush attachment.

## Features

At the heart of the RBH CT Series speakers are proprietary aluminum cone woofers and midrange drivers. Aluminum combines stiffness, low mass and self damping properties in a manner which 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 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 high quality silk dome tweeter is used. This tweeter is also magnetically shielded, and uses liquid cooling to allow greater power handling.

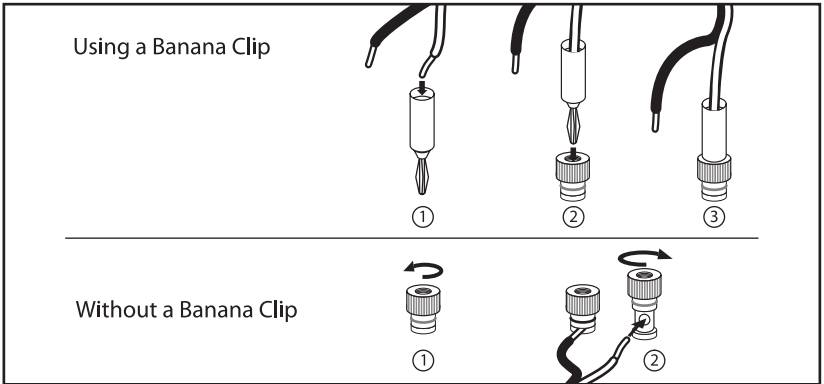
Each CT Series speaker features an extensive crossover network. Steep acoustic slope crossovers are used to integrate drivers. The use of steep crossover slopes allows for higher power handling, minimizes driver interaction anomalies, and maximizes the ability of each driver in their respective band of frequencies. Large 5-way binding posts ensure a good, solid electrical connection to these crossover networks.

Cabinets are constructed from cast aluminum. The cabinets also have a narrow profile to minimize cabinet diffraction. The speakers virtually disappear leaving only a deep, wide sound stage with pinpoint imaging. Gold binding posts ensure a good electrical contact. Sophisticated computer modeling and measurement techniques are used extensively throughout the RBH CT Series speakers design process

# Attaching Speaker Wires

When using a banana jack to attach speaker wires to the binding post terminals, insert the speaker wire into the banana jack. Next insert the banana jack into the hole provided in the top of the terminal, and then continue to tighten the nut until secure. Repeat for the other speaker wire(s) as necessary.

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 layout diagram and the following descriptions when setting up a home theater system. Some speakers shown in the diagram on the next page may not be applicable to your individual system.

### Front Main Speakers

As a starting point, place your left and right front 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. The MM-4 speakers should be placed on stands which places the tweeters close to ear height.

### Center Channel Speaker

The C-4 Center Channel Speaker should be placed between both left and right main speakers. Often this positioning dictates placing the speaker either directly above or below a television monitor. Since the MM-4 and C-4 speakers are video shielded, they may be placed in close proximity to a television without cause for concern.

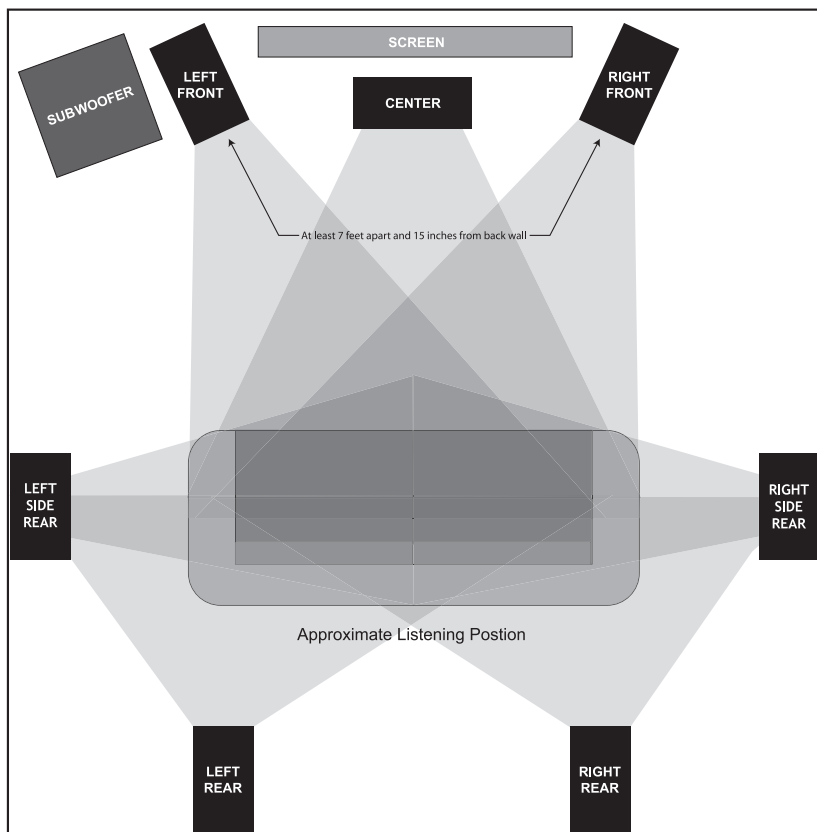
### Surround Speakers

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.

### Subwoofer

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 1-3 feet from a corner. Experiment with subwoofer placement and the sub-amplifier controls to achieve the proper bass balance.

# Room Setup Suggestions



NOTE: 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.

# Specifications

Model	MM-4	C-4
<b>Speaker Type</b>	Bookshelf	Center/LCR (Left, Center or Right)
<b>Frequency Response:</b>	100Hz – 20kHz $\pm$ 3dB	100Hz – 20kHz $\pm$ 3dB
<b>Sensitivity:</b>	85dB (2.83V @ 1M)	88dB (2.83V @ 1M)
<b>Recommended Power:</b>	10-100 Watts	10-120 Watts
<b>Woofers:</b>	(1) 4" (102mm) Aluminum	(2) 4" (102mm) Aluminum
<b>Tweeter:</b>	(1) 1" (25mm) Soft Dome	(1) 1" (25mm) Soft Dome
<b>Impedance:</b>	8 Ohms	6 Ohms
<b>Crossover Frequencies:</b>	3000 Hz	3000 Hz
<b>Dimensions:</b>	Width: 5" (184mm) Height: 7¼" (127mm) Depth: 4½" (114mm)	Width: 11¾" (298mm) Height: 5" (184mm) Depth: 4½" (114mm)
<b>Finish:</b>	Black, White or Silver	Black, White or Silver
<b>Weight:</b>	4 lbs. (1.81 Kg.)	8 lbs. (3.62 Kg.)

Model	MS-8.1	MS-10.1
<b>Speaker Type</b>	Subwoofer	Subwoofer
<b>Frequency Response:</b>	35Hz – 180Hz $\pm$ 3dB	27Hz – 180Hz $\pm$ 3dB
<b>Sensitivity:</b>	N/A	N/A
<b>Amplifier Power:</b>	200 Watts (RMS Power)	250 Watts (RMS Power)
<b>Woofers:</b>	(2) 8" (203mm) Aluminum	(2) 10" (254mm) Aluminum
<b>Tweeter:</b>	N/A	N/A
<b>Impedance:</b>	N/A	N/A
<b>Crossover Frequencies:</b>	50Hz – 160Hz (Variable)	50Hz – 160Hz (Variable)
<b>Dimensions:</b>	Width: 11¼" (285mm) Height: 13" (330mm) Depth: 13" (330mm)	Width: 13" (330mm) Height: 14¾" (374mm) Depth: 17½" (444mm)
<b>Finish:</b>	Black or White	Black
<b>Weight:</b>	35 lbs. (15.87 Kg.)	45 lbs. (20.41 Kg.)



## Troubleshooting

<b>Situation:</b>	<b>Probable Cause:</b>	<b>Solution:</b>
No sound from speakers	Speaker wire not connected	Make sure wire is connected at both the speaker and the amplifier observing proper polarity
	Speaker selector on amplifier is not on	Activate proper selector on amplifier
No sound from one speaker	Balance control on receiver or pre-amp is not centered	Place balance control in the center
	Speaker wire not securely connected	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 CT Series speakers are covered by a limited warranty against defects in materials and workmanship for a period of 5 years, and subwoofer amplifiers 1 year 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 the location designated by RBH Sound authorized 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.





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