



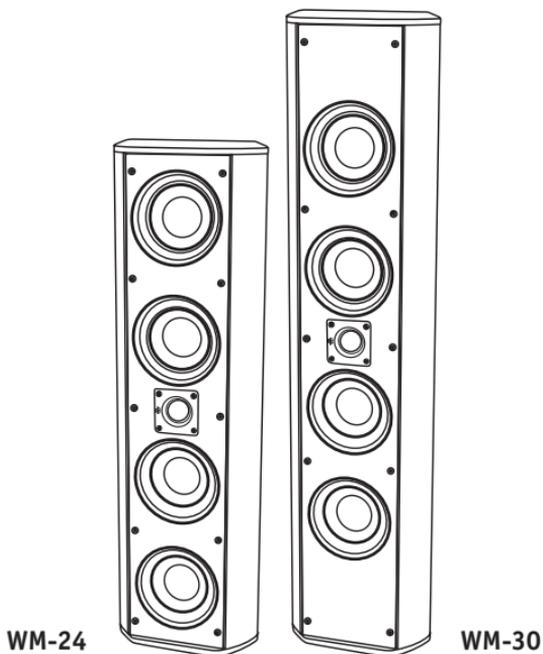
M SERIES ON-WALL SPEAKERS
WM-24 and WM-30
Owners Manual

Introduction

Congratulations on your purchase of an RBH Sound M Series WM-24 or WM-30 on-wall speaker! Your speaker is the result of many years of research and development dedicated to producing high quality products for home audio and audio systems.

This manual contains features, setup recommendations and specifications for the M Series WM-24 and WM-30 wall-mount speaker. It is 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.

M Series On-wall Speakers



Break-in Period

Allow several hours of listening time to adequately break-in the M Series on-wall speakers. 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 damp soft cloth. To clean dust from the grille cloth, use a vacuum with a brush attachment.

Features

At the heart of the M Series speakers are proprietary aluminum woofers and midrange drivers. This special aluminum cone material combines stiffness, low mass and self-damping properties to allow uncolored presentation of the 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.

Steep acoustic slope crossovers are used to integrate drivers. The use of steep crossover slopes allows high power handling, minimizes driver interaction anomalies and will maximize the clarity of each driver in its respective frequency band. A polyswitch, or current limiting device, is used in the crossover to prevent damage to the tweeter if over-driven. This device is engineered to work 900% faster than a fuse.

Sophisticated computer modeling and measurement techniques are used extensively in the RBH speaker design process. Cabinets are constructed from extruded aluminum. The cabinets also have a narrow profile to minimize cabinet diffraction. The speakers virtually disappear leaving only a deep, wide sound stage and pinpoint imaging.

System Setup

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. Experiment with speaker placement to determine which location offers the best overall sound. As a general guide, use the room layout diagram on the next page and the following descriptions listed below when setting up a home theater system. Some speakers shown in the diagram may not always be applicable to your individual system.

The WM-24 and WM-30 are designed to be used with flat-panel TVs such as plasma and LCD monitors. This will usually dictate placing the speakers on each side of the TV, or either above or below if used as a center channel. The WM-24 and WM-30 speakers sound best when placed with the speaker's back against a wall, using the supplied mounting bracket.

Front Main Speakers

For surround sound applications, main front left and right channel speakers should be mounted to the wall with the included brackets, and placed at or close to ear level when seated. If using aftermarket brackets which allow the speaker to swivel, 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 centered above or below the TV monitor in-between both left and right main front speakers. The WM-24 and WM-30 speakers may be placed in a horizontal (lying down) or vertical (standing) position.

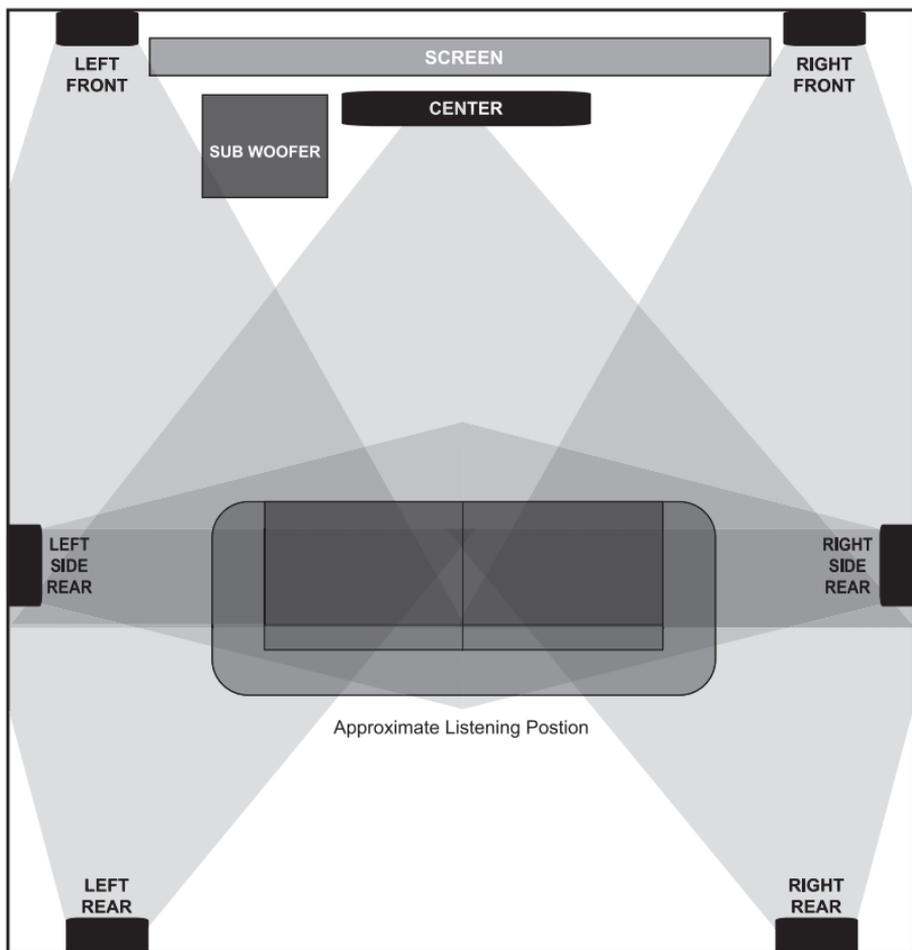
Surround Speakers

Surround channel speakers should be placed behind and to the sides of the listening position. The listening position should be centered between the surround speakers.

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. Refer to your subwoofer's owner's manual and experiment with subwoofer placement and the sub-amplifier controls to achieve the proper bass balance.

System Setup (continued)



Mounting Bracket

Using the enclosed template, mark your desired speaker location.

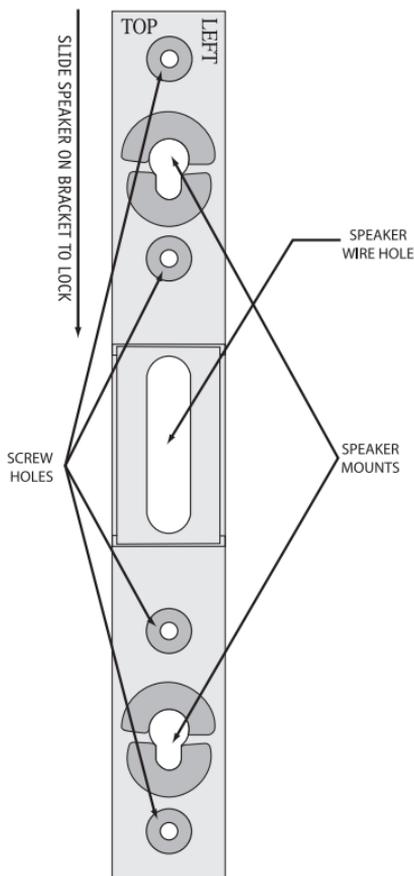
NOTE: the bracket is offset to allow for the slide mount of the speaker onto the bracket.

The offset allows the speaker to be centered when mounting is complete. If mounting in a stud-less drywall location, use the enclosed self-tapping drywall augers and screws. Start the auger in the drywall location with a few slight taps from a hammer, then screw down snugly with a screwdriver. To mount the bracket, hold the bracket in the desired location and fasten with the included screws. If you're mounting the bracket to surfaces other than drywall or hardwood, we recommend you consult with a hardware or construction professional to obtain the best hardware for your application. RBH recommends the use of the bubble-type level to ensure correct positioning of your speakers.

Four arrows in the picture point to four screw holes which should be used to attach the bracket to your mounting surface. The elongated center hole in the bracket is designed to allow the speaker wire to pass through. The keyways indicated by the other two arrows show the locations where the speaker mounting knobs will be inserted into the bracket.

TIP: Prior to actually mounting your speaker, you may want to assemble the mounting knobs and bracket to the speaker to gain a better understanding of how the pieces work together.

NOTE: When mounting in a vertical position, the speaker should always slide down onto the bracket.

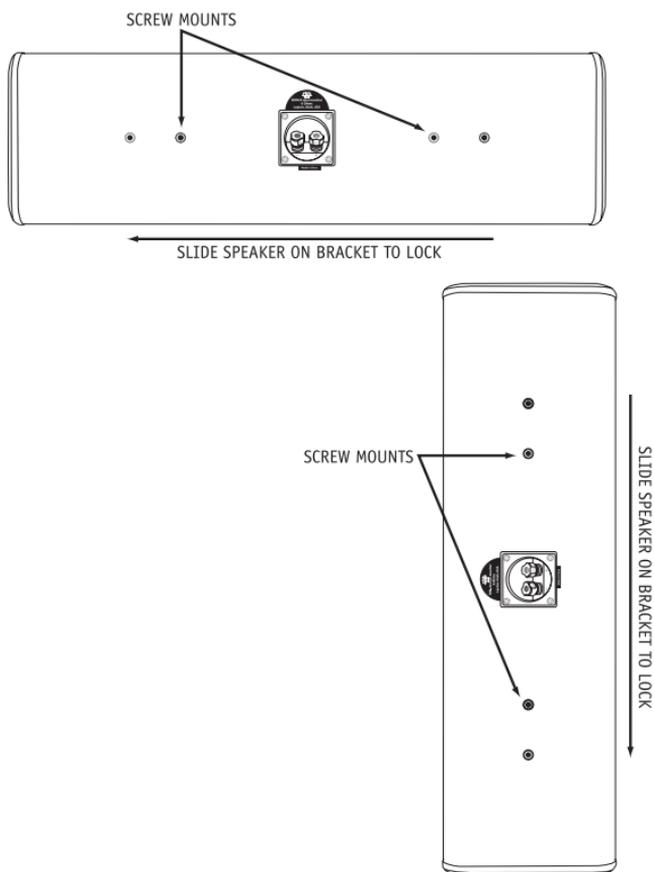


Speaker Mounting

To mount the speaker to the bracket, screw the supplied mounting knobs into the holes shown below (screw mounts), then tighten with a flat blade screwdriver. Attach the speaker wire observing polarity, and then fit the mounting knobs into the speaker mount opening of the bracket (shown in the illustration on the previous page). The speaker will mount centered when the mounting knobs are slid into place on the bracket in the direction shown by the arrows in the illustration below.

TIP: Prior to actually mounting your speaker, you may want to assemble the mounting knobs and bracket to the speaker to gain a better understanding of how the pieces work together.

NOTE: When mounting in a vertical position, the speaker should always slide down onto the bracket. Both silver and black grilles are supplied in the original shipping box. Select the grille which best matches the décor of your monitor and the room and attach it to the speaker.



Specifications

Model	WM-24	WM-30
Frequency Response:	50Hz-20kHz \pm 3dB	45Hz-20kHz \pm 3dB
Sensitivity:	90dB	90dB
Recommended/ Rated Power:	75-120 Watts	75-120 Watts
Woofers(s):	(2) 4" Active Aluminum Cone (2) 4" Passive Aluminum Cone	(2) 4" Active Aluminum Cone (2) 4" Passive Aluminum Cone
Tweeter:	(1) 1" Fabric Dome	(1) 1" Fabric Dome
Impedance:	6 Ohms	6 Ohms
Crossover Frequencies:	3000 Hz	3000 Hz
Finish:	Black Brushed Aluminum	Black Brushed Aluminum
Grille:	Black or Silver Cloth	Black or Silver Cloth
Dimensions:	7 $\frac{1}{8}$ " W x 24" H x 3 $\frac{3}{4}$ " D (182mm W x 610mm H x 95mm D)	7 $\frac{1}{8}$ " W x 30" H x 3 $\frac{3}{4}$ " D (182mm W x 762mm H x 83mm D)
Weight:	9 $\frac{1}{2}$ lbs. (4.30 Kg)	11 lbs. (4.98 Kg)
Bracket Dimensions:	15 $\frac{1}{4}$ " H x 2" W x $\frac{1}{2}$ " D (387mm H x 51mm W x 13mm D)	15 $\frac{1}{4}$ " H x 2" W x $\frac{1}{2}$ " D (387mm H x 51mm W x 13mm D)

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
	Speaker selector on amplifier is not on	Activate proper selector on amplifier
No sound from 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 M Series On-wall 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 the location designated by your dealer 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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