

# RBH IN-CEILING SPEAKER INSTALLATION AND INSTRUCTION MANUAL

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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 is designed to give you, the installer or owner, basic information as to the speakers installation and operation.

## FEATURES

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All RBH in-ceiling speakers use a swing out dog leg mounting system with pre-started screws for fast and easy installation. RBH in-ceiling speakers feature directional swivel tweeters\* used to direct the sound to the main listening area. The TK-615, MC-615 and MC-815 feature polyswitch protection circuitry that is designed to protect the tweeter from being overdriven. This circuit will automatically reset itself once the volume is turned down or the problem causing the circuit to activate is removed.

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

## INSTALLATION

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RBH in-ceiling speakers have been designed to make installation as easy as possible. Upon opening the speaker boxes you will notice that the screws are prestarted into the dog legs. As shown in the diagram below, installing RBH inwall speakers is easy and quick.

If using a New Construction Bracket (NCR-R) for the size of speaker being installed, cutting the drywall should not be necessary. To install, attach speaker wire observing polarity, then position all dog legs in toward the speaker magnet. Slide the speaker into the drywall, then tighten the screws. The dog legs will automatically swing out and tighten (pinch) themselves against the New Construction Bracket (NCB-R) and the drywall with the turning of the screw and will hold the speaker solidly in place. If using a drill/driver, set clutch to a low setting to prevent overtightening and possible damage to the frame or dog legs. If using hand tools, tighten just until firm.

When not using an New Construction Bracket (NCB-R), a cutout template is supplied with the speaker for your convenience in cutting the drywall. After the hole in the drywall is made, install the speaker using the same method described above. RBH inwall speakers can be installed into either the wall or the ceiling.

## PAINTING

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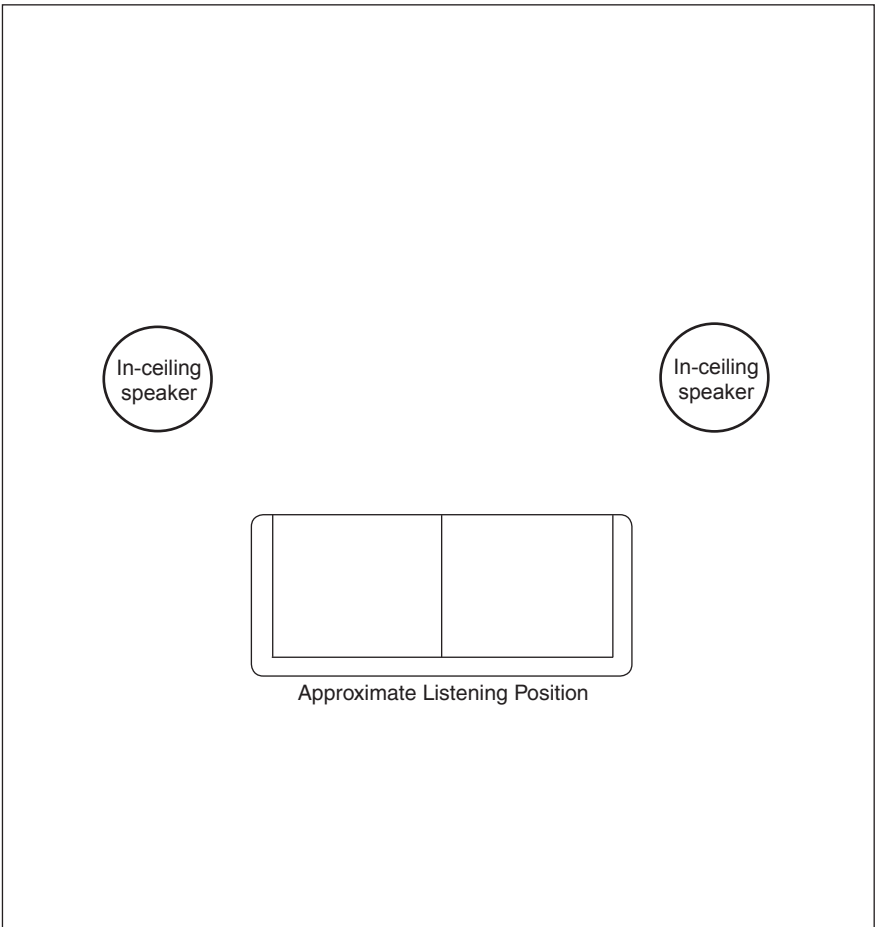
RBH inwall speakers and grilles can be painted any color to match any decor. A plastic paint shield is supplied to protect the speaker from becoming damaged during painting. **This plastic paint shield must be removed before operation of the speaker begins.**

## DESIGN PHILOSOPHY

RBH in-ceiling speakers are designed on an infinite baffle configuration. This means that a back box is not required for the speaker to perform properly. However, using the RBH BBR (Back Box Round) will most likely improve the tightness and control of the bass response.

## 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. First, consider your primary listening location and the aesthetics of the room. Second, we recommend that the distance from the listening position to each speaker should be close to the distance that separates the two main speakers. Angling the tweeters inward towards the listening position may give a more spacious and realistic soundstage.



# IN-CEILING SPEAKER SPECIFICATIONS

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## A-504-D

Frequency Response:	60Hz - 14kHz
Sensitivity:	90 dB
Power Handling:	50 Watts
Drive Units:	1) whizzer cone 1) 5 1/4" polypropylene woofer
Crossover Frequency:	N/A
Impedance:	8 Ohms
Finished Dimensions:	8 1/8" Diameter
Cutout Dimensions:	6 3/4" Diameter
Weight:	2 lbs.

## A-505-R

Frequency Response:	60Hz - 20kHz
Sensitivity:	90 dB
Power Handling:	50 Watts
Drive Units:	1) 3/4" mylar tweeter 1) 5 1/4" polypropylene woofer
Crossover Frequency:	3000 Hz
Impedance:	8 Ohms
Finished Dimensions:	8 1/8" Diameter
Cutout Dimensions:	6 3/4" Diameter
Weight:	2.5 lbs.

## A-506

Frequency Response:	60Hz - 20kHz
Sensitivity:	90 dB
Power Handling:	60 Watts
Drive Units:	1) 3/4" mylar tweeter 1) 5 1/4" polypropylene woofer
Crossover Frequency:	3000 Hz
Impedance:	8 Ohms
Finished Dimensions:	8 1/8" Diameter
Cutout Dimensions:	6 3/4" Diameter
Weight:	2.5 lbs.

## A-615

Frequency Response:	55Hz - 20kHz
Sensitivity:	90 dB
Power Handling:	80 Watts
Drive Units:	1) 1" silk dome swivel tweeter 1) 6 1/2" polypropylene woofer
Crossover Frequency:	3000 Hz
Impedance:	8 Ohms
Finished Dimensions:	9" Diameter
Cutout Dimensions:	7 7/8" Diameter
Weight:	3 lbs.

## A-815

Frequency Response:	50Hz - 20kHz
Sensitivity:	90 dB
Power Handling:	100 Watts
Drive Units:	1) 1" silk dome swivel tweeter 1) 8" polypropylene woofer
Crossover Frequency:	3000 Hz
Impedance:	8 Ohms
Finished Dimensions:	10 3/4" Diameter
Cutout Dimensions:	9 3/8" Diameter
Weight:	3.5 lbs.

## TK-615

Frequency Response:	50Hz - 20kHz
Sensitivity:	90 dB
Power Handling:	100 Watts
Drive Units:	1) 1" aluminum dome swivel tweeter 1) 6 1/2" fiberglass woofer
Crossover Frequency:	3000 Hz
Impedance:	8 Ohms
Finished Dimensions:	9" Diameter
Cutout Dimensions:	7 7/8" Diameter
Weight:	4 lbs.

## MC-615

Frequency Response:	50Hz - 20kHz
Sensitivity:	90 dB
Power Handling:	120 Watts
Drive Units:	1) 1" aluminum dome swivel tweeter 1) 6 1/2" aluminum woofer
Crossover Frequency:	3000 Hz
Impedance:	8 Ohms
Finished Dimensions:	9" Diameter
Cutout Dimensions:	7 7/8" Diameter
Weight:	4.5 lbs.

## MC-815

Frequency Response:	45Hz - 20kHz
Sensitivity:	90 dB
Power Handling:	150 Watts
Drive Units:	1) 1" aluminum dome swivel tweeter 1) 8" aluminum woofer
Crossover Frequency:	2500 Hz
Impedance:	8 Ohms
Finished Dimensions:	10 3/4" Diameter
Cutout Dimensions:	9 3/8" Diameter
Weight:	5 lbs.

## WARRANTY

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Your RBH Sound inwall loudspeaker is covered by a limited warranty against defects in materials and workmanship for a period of twenty-five (25) 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.



REDEFINING THE WAY YOU EXPERIENCE SOUND