SPEAKER SPECIFICATIONS

	CRS6 ZERO	CRS6 ONE	CRS6 TWO
Speaker Type:	2-Way In-Ceiling	2-Way In-Ceiling	2-Way In-Ceiling
Tweeter:	Pivoting 1" Silk Dome	Pivoting 1" Silk Dome	Pivoting 1" Silk Dome
Woofer:	6½" Polypropylene Cone	6½" Polypropylene Cone	6½" Glass Composite Cone
	with Rubber Surround	with Filleted Rubber Surround	with Filleted Rubber Surround
Impedance:	8ohm	8ohm	8ohm
Sensitivity:	92dB 1W/1m	92dB 1W/1m	92dB 1W/1m
Frequency Adjustments:	None	None	Front-Mounted 3 Position ±3dB Treble Adjustment Switch
Frequency Response:	40Hz - 20kHz ± 2dB	40Hz - 20kHz ± 2dB	40Hz - 20kHz ± 2dB
Power Recommendations:	100 watts (undistorted)	100 watts (undistorted)	120 watts (undistorted)
Diameter x Depth:	9¹¾₅" x 4"	9¹¾₅" x 4"	9 ¹ ‰" x 4"
Ceiling Cut Out:	8¼"	8¼"	8¼"

		CRS6 THREE	CRS6 FOUR	
Speaker Type:		2-Way In-Ceiling	2-Way In-Ceiling	
Tweeter:		Pivoting 1" Aluminum Dome	Pivoting 1" Aluminum/Magnesium Dome	
Woofer:		6½" Aluminum Cone with Dual Voice Coil & Filleted Rubber Surround	6½" Aluminum/Magnesium Cone with Dual Voice Coil & Filleted Rubber Surround	
Impedance:		8/6/40hm depending on switch settings 8/6/40hm depending on switch settings		
Sensitivity:		90dB 1W/1m	90dB 1W/1m	
Frequency Adj	ustments:	Front-Mounted 3 Position ±3dB Treble Adjustment Switch & ±3dB Bass Adjustment Switch	Front-Mounted 3 Position ±3dB Treble Adjustment Switch & ±3dB Bass Adjustment Switch	
Frequency Res	ponse:	40Hz - 20kHz ± 2dB	37Hz - 20kHz ± 2dB	
Power Recomr	mendations:	125 watts (undistorted)	150 watts (undistorted)	
Diameter x De	pth:	9 ¹ 3/ ₁₆ " x 4"	9¹¾₀" x 4"	
Ceiling Cut Ou	ıt:	8¼"	8¼"	
In our attempt to constantly improve our products, features and specifications are subject to change without notice				

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SpeakerCraft offers a variety of accessories to make your installation of these speakers and other SpeakerCraft products easy, economical, and professional. Contact your authorized SpeakerCraft Dealer for more information.

Should you have any questions regarding this, or any other SpeakerCraft product, please call our toll-free service hot line at 1-800-448-0976. We are available to assist you every weekday, except holidays, between the hours of 7:00 a.m. and 5:00 p.m. PST.

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OW/NER'S MANUAL

CRS6 SERIES CRS6 Zero / CRS6 One / CRS6 Two / CRS6 Three / CRS6 Four

Custom Round Series In-Ceiling Loudspeakers

Congratulations on your purchase of SpeakerCraft CRS6 Series In-Ceiling Speakers. All CRS6 Series speakers are equipped with pivoting dome tweeters, which allow you to direct the sound toward, or away from, a listening area to achieve a desired effect. In addition, each CRS6 model comes equipped with WavePlane, SpeakerCraft's revolutionary tweeter baffle. SpeakerCraft has a wide variety of accessories to compliment your CRS6 Series speakers. Contact your dealer or SpeakerCraft direct for more details.

SPEAKER PLACEMENT

Before installing your speakers, you should consider the placement carefully, taking into account the location of electrical, plumbing and other fixtures. Contact your dealer for assistance if you are not sure of the best location in your particular room environment.

Placement In Ceiling: When placing your speakers in the ceiling, they should ideally be located above the primary listening area. Standard Co-Axial No Tweeter Baffle The unique tweeter baffle of the CRS6 Series speakers allows for Uneven Forward Dispersion more forward radiation and a more even frequency response than Diagram 1 is obtainable on conventional coaxial type round speakers. (See Diagram 1) If the speakers are positioned far away from the primary listening area, adjust the pivoting tweeter so they are pointed at the primary listening area. Note: To avoid possible damage to the pivoting tweeters, read the section entitled "SPEAKER ADJUSTMENTS" in this manual prior to performing the tweeter adjustment.

In a very large room with low ceilings, it may be necessary to place additional speakers throughout the room. Contact your Authorized SpeakerCraft dealer for assistance.

MOUNTING SURFACE PREPARATION

New Construction - Unfinished Ceilings

A New Construction Bracket, SpeakerCraft P/N BKT90611 (available from your dealer), may be installed prior to drywall application across joists (up to 24" on-center) where a speaker will be located. Insulation material should be in place prior to installing drywall. After the hole is cut and the drywall is installed, the speakers are then easily installed following the instructions for mounting in "Finished Ceilings". Note: If the speakers are to be mounted more than 24" on-center, a special "Extra Long Wing", SpeakerCraft P/N WING90222, is available from your dealer.

Finished Ceilings

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Prior to the actual installation of the speakers, it will be necessary to run cables to the speaker locations. See your dealer for more information about cable installation. After the cable has been properly installed, you are ready to mount the speakers. Following the simple steps listed below will result in a professional looking installation:

- access to an attic or crawl space for further analysis of the location of such obstacles.
- consider the size of the baffle flange which extends beyond the mounting hole.







WavePlane⁻ Technology 95% Solid Plane for Tweeter 80% Open Area for Woofe

Wave

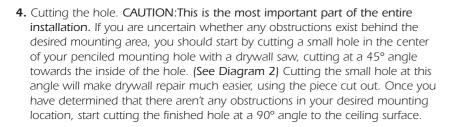
1. Determine the best area to mount your speakers. This area of the ceiling should be free of obstructions such as electrical conduit, HVAC ducts, or water lines. This can best be determined by noting the placement of fixtures and gaining

2. Find the joists nearest the desired speaker mounting location. We highly recommend using a good stud-finder tool for this procedure. If you are lining up the speakers to some other object or molding in the room, make sure you

3. Mark the hole. A template for setting the hole is provided in the box (along with two paint mask inserts for use when painting). Position the template in the desired position and pencil an outline on the ceiling.

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5. Add insulation. If the area in the ceiling is not already insulated, add an adequate amount insulation material to loosely cover the back of the speaker. If the insulation material used is faced with foil or paper, position the foil or paper away from the speaker.

SPEAKER INSTALLATION

The unique integral four foot mounting system incorporated into each CRS6 Series speaker allows for a quick installation by following these easy steps:

- 1. Remove the grille. It may be necessary to push one or two of the mounting screws and its attached foot towards the baffle and against the inside surface of the grille to force the grille out of its retaining groove.
- 2. Attach the speaker cable (observing the proper polarity with your amplifier, + to + and (- to -). Make sure the left channel of the amplifier is connected to the left speaker, and the right channel is connected to the right speaker.
- 3. Make sure the mounting feet are turned inward to clear the opening, and insert the speaker into the ceiling. Position the speaker into the hole. Note: The flange of the speaker is designed to flex and conform to any small imperfections in the ceiling's surface. Tighten the four screws on the front of the baffle only enough to make the flange become snug against the ceiling. As you tighten the screws, the feet will automatically flip into an outward position (See Diagram 4), thereby clamping the drywall between the feet and the flange. CAUTION: Over tightening may warp the baffle, crack the ceiling, cause flange to distort, and make the grille difficult to install.
- 4. Push the grille firmly into the slot in the speaker baffle.

SPEAKER ADJUSTMENTS

Your CRS6 Series speakers come from the factory with the tweeter facing straight out from the baffle. This will result in the overall smoothest response. However, depending on your particular primary area, room acoustics, ceiling height, or personal preference, you may find the sound more pleasing by pointing the tweeters in a particular direction. If additional treble is desired in the primary listening area, point the tweeter towards that area; and if less treble is required, point the tweeter away. Push gently at the edge of the tweeter to point

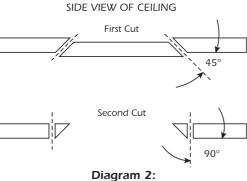
it in the desired direction. (See Diagram 3) CAUTION: Avoid touching tweeter dome as damage WILL occur on metal dome tweeters (CRS6 THREE & FOUR).

Tweeter Adjustment (CRS6 TWO, THREE & FOUR):

The switch labeled TREBLE allows for 6dB of tweeter adjustment. Your speakers were shipped with the treble switch in the neutral position, providing the most linear frequency response. If you desire more treble, roll the switch to the "+" position, and the tweeter will play 3dB higher. If you want less treble, roll the switch to the "-" position and the tweeter will play 3dB lower. To return to the neutral setting, slide the switch to the middle position. (See Diagram 5)

Woofer Adjustment (CRS6 THREE & FOUR):

The switch labeled BASS allows for 6dB of bass adjustment. Your speakers were shipped with the bass set to neutral, resulting in 60hm of impedance. This setting provides the flattest bass frequency response. desire more bass, roll the switch towards "+" and the bass will play 3dB higher and lower the



Ceiling Cut Out

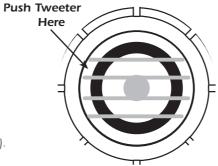


Diagram 3: Tweeter

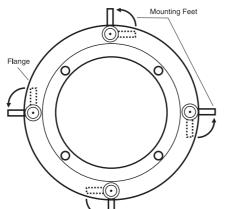


Diagram 4: Mounting Feet



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impedance to 4ohm. If you want less bass, roll the switch towards "-" and the bass will play 3dB lower and increase the impedance to 80hm. This setting provides a more linear bass frequency response. To return to the neutral setting, slide the switch to the middle position. (See Diagram 6) Remember that altering the impedance affects the number of speakers able to be driven by an amplifier. If multiple pairs of speakers are to be driven by one amplifier, SpeakerCraft suggests using the lowest output position (switch rolled towards the "-" position) until it is determined that the amplifier will operate properly with the speakers switched to a higher output mode. If you want to safely operate multiple pairs of speakers, consider purchasing SpeakerCraft S4 or S8 Speaker Selectors.

PAINTING THE SPEAKERS

If you plan to paint your speakers, we recommend that it be done prior to installation. If you plan to paint your speakers sometime in the future, it is best to remove them by simply reversing the steps for "SPEAKER INSTALLATION" on page 2. If it is necessary to paint the speakers while they are still in the ceiling, the paint masks provided in the carton must be installed in place of the grille while the flange is being painted with the ceiling. The grilles can also be painted, however, great care should be taken not to clog the holes, as this will greatly reduce the sound quality of the speakers. SpeakerCraft recommends only light spray painting using 5 parts thinning agent to 1 part paint. Do not paint the grilles while they are attached to the speaker. If it is necessary to paint the under grille material, follow the same procedure used to paint the grilles.

SPECIAL FIRE WALL INSTALLATION

If you plan to mount your speakers in a fire-rated ceiling, you should purchase SpeakerCraft 6" Round Sound Enclosures, model #SE1612. The metal enclosures mount easily between joists, and contain a standard electrical type connector for connections of your speaker cable directly to the speaker.

LIMITED LIFETIME WARRANTY

SpeakerCraft Inc. warrants to the original retail purchaser only that this SpeakerCraft product will be free from defects in materials and workmanship, provided the speaker was purchased from a SpeakerCraft Authorized Dealer.

Defective products must be shipped, together with proof of purchase, prepaid insured to the SpeakerCraft Authorized Dealer from whom they were purchased, or to the SpeakerCraft factory at the address listed on this installation instruction manual. Freight collect shipments will be refused. It is preferable to ship this product in the original shipping container to lessen the chance of transit damage. In any case, the risk or loss or damage in transit is to be borne by the purchaser. If, upon examination at the Factory or SpeakerCraft Authorized Dealer, it is determined that the unit was defective in materials or workmanship at any time during this warranty period, SpeakerCraft or the SpeakerCraft Authorized Dealer will, at its option, repair or replace this product at no additional charge, except as set forth below. If this model is no longer available and can not be repaired effectively, SpeakerCraft, at its sole option may replace the unit with a current model of equal or greater value. In some cases where a new model is substituted, a modification to the mounting surface may be required. If mounting surface modification is required, SpeakerCraft assumes no responsibility or liability for such modification. All replaced parts and product become the property of SpeakerCraft Inc. Products replaced or repaired under this warranty will be returned to the original retail purchaser, within a reasonable time, freight prepaid.

This Warranty does not include service or parts to repair damage caused by accident, disaster, misuse, abuse, negligence, inadequate packing or shipping procedures, commercial use, voltage inputs in excess of the rated maximum of the unit, or service, repair or modification of the product which has not been authorized or approved by SpeakerCraft. This Warranty also excludes normal cosmetic deterioration caused by environmental conditions. This Warranty will be void if the Serial Number on the product has been removed, tampered with or defaced.

This Warranty is in lieu of all other expressed warranties. If the product is defective in materials or workmanship as warranted above, the purchaser's sole remedy shall be repair or replacement as provided above. In no event will SpeakerCraft be liable for any incidental or consequential damages arising out of the use or inability to use the product, even if SpeakerCraft Inc. or a SpeakerCraft Inc. Authorized Dealer has been advised of the possibility of such damages, or for any claim by any other party. Some states do not allow the exclusion or limitation of consequential damages, so the above limitation and exclusion may not apply.

All implied warranties on the product are limited to the duration of this expressed Warranty. Some states do not allow limitation on the length of an implied warranty. If the original retail purchaser resides in such a state, this limitation does not apply.





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Diagram 6: Bass Adjustment Switch