

OWNER'S MANUAL

8" CRS

8.1 CRS ■ 8.2 CRS ■ 8.5 CRS Custom Round Series

Congratulations on your purchase of SpeakerCraft 8" CRS Ceiling Speakers. The 8.1 CRS, 8.2 CRS, and 8.5 CRS 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. SpeakerCraft has a wide variety of accessories to compliment your CRS 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 into the ceiling, they should ideally be located above the primary listening area. The unique tweeter baffle of the 8.2 CRS and 8.5 CRS speakers allows for more forward radiation and a more even frequency response than is obtainable on conventional coaxial type round speakers. 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 BKT90681 (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".

FINISHED CEILINGS

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 on 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:

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

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3. Mark the hole. A punch out template for setting the hole is provided in the box. Position the template in the desired position and pencil an outline on the ceiling.

4. Cutting the hole. **Caution: This is the most important part of the entire installation.** If you are not certain whether any obstructions exist behind the desired mounting area, you should start by cutting a small hole in the center of your penciled mounting hole with a drywall saw, cutting at a 45° angle towards the inside of the hole. (See Diagram 1) Cutting the small hole at this angle will make drywall repair much easier, using the piece cut out. Once you have determined that there aren't any obstructions in your desired mounting location, start cutting the finished hole at a 90° angle to the ceiling surface.

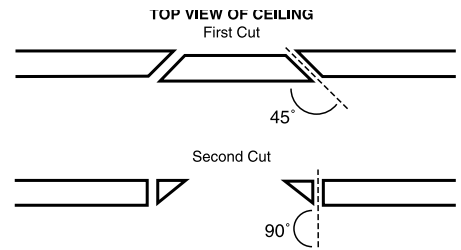


Diagram 1

5. Add insulation. If the area in the ceiling is not already insulated, add an adequate amount of 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 ADJUSTMENTS

The Pivoting Tweeter Plates on the 8.2CRS and 8.5CRS allow you to direct sound toward, or away from, a listening area to achieve a desired effect. Push gently at the edge of the tweeter to point the tweeter in the desired direction. (See Diagram 2)

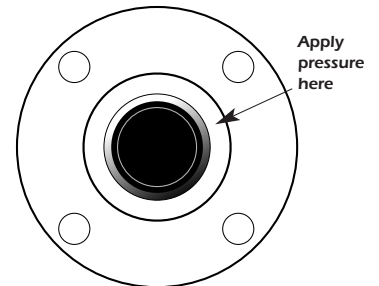


Diagram 2

TWEETER ADJUSTMENTS (8.2CRS, 8.5CRS):

The switch labeled TREBLE allows for 6dB of adjustment. Your speakers were shipped with the tweeter switch in the "0" position. This setting provides the most linear frequency response. If you desire more high frequency, move the switch to the "+3dB" position, and the tweeter will play 3dB higher. If you want less tweeter response, move the switch to the "-3dB" position and the tweeter will play lower. (See Diagram 3)

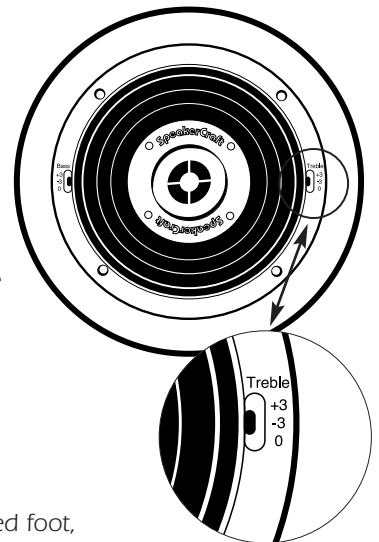


Diagram 3

WOOFER ADJUSTMENT (8.2CRS, 8.5CRS):

As with the tweeter, the woofer also provides for 6dB of adjustment. The BASS switch is also shipped in the "0" position (6Ω) and can be adjusted to play 3dB higher (4Ω) or 3dB lower (8Ω). If multiple speaker pairs are to be driven by one amplifier, SpeakerCraft suggests using the lowest output position for the woofer (BASS switch on -3dB) until it is determined that the amplifier will operate with the speakers wired in a higher output mode.

SPEAKER INSTALLATION

The unique integral four-foot mounting system incorporated into your CRS 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 surface. Tighten the 4 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.

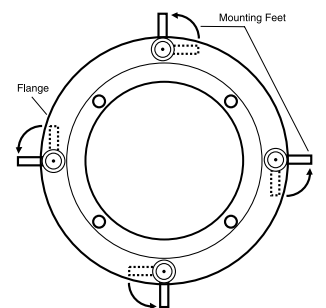


Diagram 4

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 listed above. 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 a SpeakerCraft Sound Enclosure #SE1410. This metal enclosure mounts easily between joists, and contains 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.



SPEAKER SPECIFICATIONS

	8.1CRS	8.2CRS	8.5CRS
System Description:	2-Way Infinite Baffle Design	2-Way Infinite Baffle Design with Co-Axial Concentric Adjustable Tweeter	2-Way Infinite Baffle with Co-Axial Concentric Adjustable Tweeter
High Frequency Driver:	½" Polycarbonate Dome, Ferrofluid Dampening	½" Polycarbonate Dome, Pivoting Tweeter Plate, Ferrofluid Damping	1" Cloth Dome Tweeter, Pivoting Tweeter Plate, Ferrofluid Damping, Neodymium Magnet
Low Frequency Driver:	8" Polypropylene Cone, Perforated Frame	8" Polypropylene Cone, Urethane Surround, Perforated Frame, Dual Voice Coil	8" Mica-filled Polypropylene Cone, Rubber Surround, Perforated Frame, Dual Voice Coil
Impedance (nominal):	8Ω	Adjustable: 4, 6, 8Ω	Adjustable: 4, 6, 8Ω
Sensitivity (1 Watt/1 Meter):	90dB	90dB	90dB
Frequency Response:	40Hz - 20kHz	35Hz - 20kHz	30Hz - 22kHz
Recommended Power:	100 Watts (undistorted)	100 Watts (undistorted)	100 Watts (undistorted)
Shipping Weight:	10 lbs	11 lbs	11 lbs

In our attempt to constantly improve our products, features and specifications are subject to change without notice.

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 Hotline 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.