### OWNER'S MANUAL

## **CSS6 DT Zero**

In-Ceiling Loudspeaker





#### INTRODUCTION

Congratulations on your purchase of SpeakerCraft CSS6 DT Zero speaker. Since aesthetics are such a large part of the appeal of flush-mount loudspeakers. The CSS6 DT Zero will offer yet another appearance option. The CSS6 DT features a 6½" woofer and dual 1" resin coated silk-dome tweeters. The CSS6 DT Zero also offers pivoting tweeters, allowing the installer to focus directional high frequencies toward the listening area. This is critical in situations where a less than favorable installation location is unavoidable.

#### 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.

When placing your speaker into the ceiling, it should ideally be located above the primary listening area. The CSS6 DT Zero is intended to be used as a single stereo speaker in small listening environments, walk-in closets, laundry rooms, bath rooms etc. In a large area, it may be necessary to place additional speakers throughout the room to get the optimal effect.

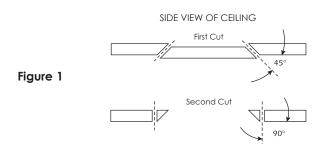
#### MOUNTING SURFACE PREPARATION

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.

#### **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 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:

- 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 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.
- **3.** Mark the hole. A template for setting the hole is provided in the box (along with a paint mask insert for use when painting). 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 uncertain 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 Figure 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.
- 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



#### SPEAKER INSTALLATION

The unique integral four foot mounting system incorporated into each CSS6 DT Zero 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 Figure 2), 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.

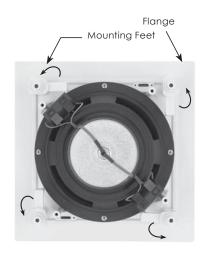


Figure 2

#### **SPEAKER ADJUSTMENTS**

Your CSS6 DT Zero speaker 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. (See Figure 3)



Figure 3

#### 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". 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 CSS6 Sound Enclosures (ASM90509) The metal enclosures mount easily between joists.

#### **SPECIFICATIONS**

**CSS6 DT Zero** 

**Speaker Type:** 2 Way In-Ceiling Single Stereo

Tweeter: Dual 1" Resin Silk Coated Pivoting Dome

**Woofer:** 6½" Polypropylene Cone with Filleted Rubber Surround

**Impedance**: 8 Ohms

Sensitivity: 91dB 1W/1m

Frequency Response: 60Hz - 20kHz

**Power Handling:** 60 watts

Dimensions (H x W x D): 8¾" x 8¾" x 4"

(222.25mm x 222.25mm x 102mm)

Cut Out Dimensions: 7" x 7"

(178mm x 178mm)

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

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#### 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 of 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.

SpeakerCraft offers a variety of accessories to make your installation of this and other SpeakerCraft products easy, economical, and professional. Contact your authorized SpeakerCraft Dealer for more information. For technical inquires, please call 1-800-448-0976 or e-mail us at techsupport@speakercraft.com. We are available to assist you every weekday, except holidays, between the hours of 7:00 a.m. and 5:00 p.m. PST.