

CECS Series Ceiling Speaker User's Installation Guide

Low Profile, In-Ceiling, 2-Way Coaxial, Infinite Baffle Loudspeaker

The Contractor Edition CECS is a competitively priced 2-Way Ceiling Loudspeaker that introduces the customer to the possibilities of whole house audio for every room.

It incorporates a Talc Filled Polypropylene woofer with a butyl rubber surround and pivoting polycarbonate dome Ferrofluid cooled tweeter. The DT is a dual voice coil dual tweeter speaker that delivers blended stereo sound from one speaker for bathrooms, walk-in

Even in this competitive package our speaker provides exceptional natural sound for both foreground and background applications.

The Infinite Baffle design makes it the ideal choice for typical application in open beam attic or enclosed ceilings. The low profile design allows mounting in low headroom spaces.

The speaker color is white, and is a close match to Frazee White Shadow 181. It can be painted to match any decor. The grill is a powder coated steel design. For outdoor applications use the CS series.

Four built-in expanding transverse dog leg clamps permit installation with or without pre-wire construction brackets in drywall or material with thickness of 5/16" to 1 3/16".

Electrical connection, up to 14 gauge wire, is made by standard constant tension red/black spring-loaded terminals.



SPECIFICATIONS for CECS Series	CECS65	CECS80	CECS65DT
Driver with Butyl Rubber Surround	6.5" Talc Filled Polypropylene	8" Talc Filled Polypropylene	6.5" Talc Filled Polypropylene
Tweeter, Pivoting 5/8" (12mm)	Polycarbonate Ferrofluid Cooled Dome	Polycarbonate Ferrofluid Cooled Dome	Polycarbonate Ferrofluid Cooled Dome
Frequency Response	70Hz-19.5kHz	50Hz-19.5kHz	55Hz-19.5kHz
Power handling	5-55 Watts	5-60 Watts	5-55 Watts
SPL @ 1 Watt/1 meter	88db	88.5db	
Impedance 8 ohm Nominal	Fixed Crossovers	Fixed Crossovers	Fixed Crossovers
Diameter x Depth	8 5/16"(227mm)x 2 53/64" (71.37mm)	9 5/8"(245mm)x 3.24" (82.25mm)	8 5/16"(227mm)x 2 53/64" (71.37mm)
Retro-fit Cutout Diameter	7 7/8" (200mm)	9 7/16" (240mm)	7 7/8" (200mm)

Part Number	92065 CECS65; 92066 CECS80; 92122 CESC65DT 92070 R70VT 70Volt Xmr
Manual URL	www.currentaudio.com
Accessories	NC6CECB 92086 or NC8CECB 92085 New Construction Bracket, TB6 92083 or TB8 92084 Tile Support Bridge ZL25R 92034 Volume Control, SpeKap 92069



www.currentaudio.com
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1830 John Towers Avenue El Cajon, CA 92020 Sales 866-927-7181

Specifications subject to change without notice.

CECS Series Rev1 07081 RPA

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Packaging and Enclosed Parts

Please inspect your pack for damaged or missing parts. Notify your supplier if any discrepancies occur. There are five (5) parts in the package: Two (2) main speaker housings, two (2) grilles and a trace template.

Only simple hand tools are required for assembly and installation.
Required tools: #2 Phillips screwdriver only, if you have new construction brackets previously installed. A drywall hand saw may be required if no New Construction Brackets were installed. A saber saw may be needed if you are cutting into plywood.

Painting the Speaker Grille

If grille requires painting, carefully remove the white scrim cloth on the inside of the Grille and save for reinstallation. This cloth is provided for aesthetic purpose only. Either spray paint the grille or use a stiff stipple paint brush. Do Not clog the perforated holes as this will impede the acoustics of the speaker.

NOTE: These speakers are not recommended for use outdoors or in humid and wet locations. The speaker grille on these models are made of steel and could possible rust.

Installation

1

Using the supplied Trace Template, punch out the perforations (I suggest using a razor knife over the perforations to facilitate a clean cut).

NOTE: A stud finder may be helpful to locate the ceiling beams. You want to layout the hole to the side of any beams.

Place the cutout template against the ceiling and trace along the inside circle.

It is suggested to cut a small pilot hole to verify no obstructions, such as pipes or beams, that could hinder the install.

Carefully cut out the ceiling material along the circle. A drywall saw is perfect for this step. Hold a box or trash can under your cutting area to catch the debris.



Trace Template

2

After you have cut your desired hole from the template, locate the speaker wire for that speaker. Pull enough wire slack down to attach the 2 conductor wire to the standard constant tension spring-loaded terminals.

Remove about 2" of the outer jacket then strip about ½" insulation from each wire and slightly twist the strands to ensure all strands can be inserted into the hole. Refer to next picture for location of the standard constant tension spring-loaded terminals.

Push down on the RED (+) colored Terminal and insert the Red or copper colored conductor all the way up to the insulation into the hole at the top of the terminal. Now release your finger from the terminal. Next do the same to the Black or silver colored conductor and insert into the BLACK (-) colored Terminal. Make sure there are NO whiskers from the strands that could cause a short. The other end of these wires will be connected to your amplifier or volume control.

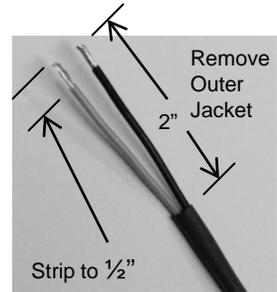
Note: Sometimes your wire color may be White (+) and Green (-).

You now have a connection with the proper tension for continued operation that will not wiggle out or cause poor connection.

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Standard Constant Tension Spring-loaded Terminals



3

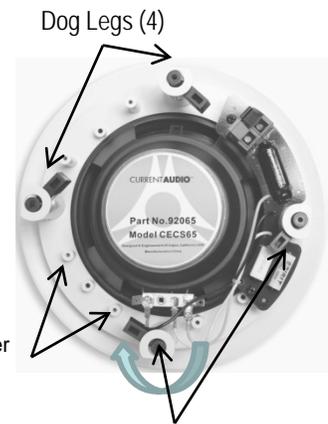
With the grille removed, loosen the four (4) Dog-Leg screws a 1/2 turn counterclockwise with a #2 Phillips screwdriver.



Turn CCW to Loosen



Dog-Leg Screws (4)



70 Volt Transformer Stand-offs

Turn Screw CW to Expand and Tighten

4

- Hold the speaker on the outer bezel edge as shown. Do Not put fingers into the tweeter material in the center of the speaker.
WARNING! Denting or deforming the tweeter dome will change the acoustics of the speaker.
- Insert the connected speaker into the ceiling hole and with a #2 Phillips screwdriver tighten the four (4) Dog-leg screws (clockwise) until the Dog-legs open and clamp the speaker to the ceiling. If using a power drill or electric screw gun use the **lowest** torque setting.
- Over tightening may cause improper fit of the grille, damage to drywall, damage to speaker and or cause improper fit of the grille.
- Adjust the Tweeter position to your ear area at the "Sweet Spot" by slightly pushing on the inner edge of the tweeter with your thumb.



Hold Here

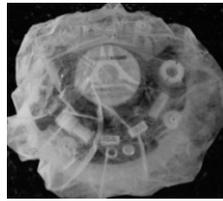
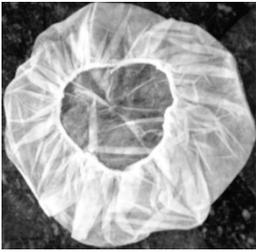
NOTE: If you have blown-in insulation and/or a potential rodent problem I suggest you install the SpeKap. It is a breathable membrane that will keep rodent droppings, debris, and insulation from entering the back of the speaker that could change the performance of the speaker. See figure on next page.

NOTE: The R70VT transformer adapts any Current Audio 8 Ohm speaker for use with multi-speaker 70 Volt commercial distributed public address and sound systems. The CS65 and CECS series have stand-offs for direct mounting the R70VT. It features a high power, low insertion loss, wide frequency response quality line matching transformer design. The transformer has multiple primary taps of 30-16-8-4 watts with the secondary at 8 Ohms. See figure on next page.

Tweeter. Push Here



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6.5" In-Ceiling



8" In-Ceiling

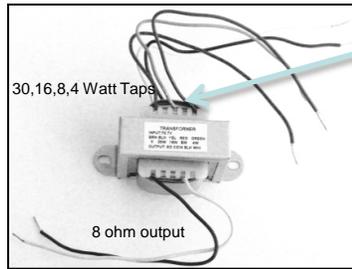


8" In-Wall

SpeKap

Breathable Membrane

Keeps Debris, Rodent Droppings and Insulation out of the Speaker



R70VT

70 Volt to 8 ohm
Directly attaches to stand-offs
on the CE Series and all CS65
Series

30-16-8-4 Watt Taps 8 ohm output

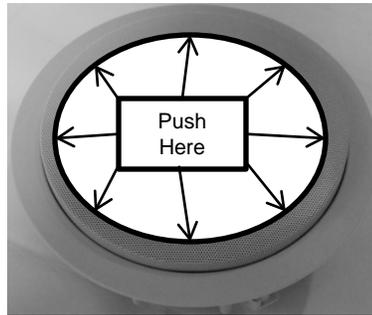


R70VT Mounted on CECS

After Connecting Wires, Inserting Speaker, Cinching Down the Dog Legs and Aiming the Tweeter to the Sweet Spot; Insert the Grille into the Keeper System and Push it Flush to the Bezel. Do not push directly in the center Oil canning will occur. Push the grille down on the sides flush to the bezel.



Step 1, Align the Grille



Step 2, Grille Aligned



Step 3, Push Grille Flush to Bezel

Limited 5 Year Warranty

Current Audio, LLC speakers and accessories are warranted to be free from defects in materials and or workmanship to the original retail purchaser for a period of 5 years provided the equipment was purchased and installed from a Current Audio, LLC Authorized Dealer.

In the event of defective materials and or workmanship, Current Audio, LLC will, without charge, repair or replace, at its option, the defective product. In order to make claim under this Warranty and to obtain performance of any obligation under warranty, please contact Current Audio. Instructions will be given on how to return the defective product to Current Audio. Returned products must be shipped prepaid. Proof of purchase must be provided with the product.

The Warranty does not apply to damage not resulting from defective materials and or workmanship while in the possession of the original consumer or due to unreasonable use by the original consumer, which includes but not limited to improper installation, negligence, unauthorized repair or modification, aesthetic deterioration from the environment. Products purchased by unauthorized sources will void the warranty and not be honored.

Current Audio, LLC is not liable for any incidental or consequential damages, so the above limitations or inclusion may not apply to you. This warranty gives you specific legal rights, and you may have other rights, which vary from state to state within the United States.