

CS Series Ceiling Speaker User's Installation Guide

Low Profile, In-Ceiling, Coaxial, Infinite Baffle Loudspeaker with Easy Install Grille

The easy to install CS series speakers are a full range ceiling loudspeaker that incorporates high tech woofer materials with a butyl rubber surround and the Patent Pending state-of-the-art diffractionless dome Ferrofluid cooled tweeter. The Patent Pending pivoting tweeter allows for deeper penetration into the room and concentrated sound to the sweet spot.

This revolutionary combination provides superior and more natural sound for both foreground and background applications.

The Infinite Baffle design makes it the ideal choice for typical applications in open beam attic or enclosed ceilings.

For efficiency and consistency the CS650DT and CS800DT series are timbre matched to the CS series, FIT series and WS series of speakers.

In addition, most of the CS speakers incorporate a 3 position equalization switch, one each for bass and treble to fine tune the acoustics and allow for various room surfaces.

The speaker grille color is white, and is a close match to Frazee White Shadow 181. It can be painted to match any décor. The speaker enclosure is a durable UV-resistant material that allows for both indoor and outdoor installations. Unlike other grilles that use magnets to hold them on they must be made of steel that will rust. The perforated powder-coated aluminum alloy grill is long-lasting, corrosion resistant and rust-free.

Four built-in expanding transverse dog leg clamps permit installation with or without pre-wire construction brackets in drywall or material with thickness of 7/32" to 1 3/16".

Electrical connection, up to 12 gauge wire, is made by two gold plated constant tension spring-loaded terminals.

With our limited Lifetime warranty you are assured years of superior trouble free operation.



SPECIFICATIONS for CECSDT and CS65 Series	CS650DT	CS800DT	CECS65DT
Dual Voice Coil Drivers with Butyl Rubber Surround	MetaPlex Composite	MetaPlex Composite	Talc Filled Polypropylene
Dual Tweeters, 1", Diffraction-less, Dome	Silk Ferrofluid Cooled	Aluminum Ferrofluid Cooled	Silk Ferrofluid Cooled Dual
Frequency Response	70Hz-19.5kHz	50Hz-19.5kHz	70Hz-19kHz
Power handling	5-100 Watts	5-125 Watts	5-100 Watts
SPL @ 1 Watt/1 meter	88db	88.5db	88db
Impedance 8 ohm Nominal	Fixed Crossovers	Fixed Crossovers	Fixed Crossovers
Diameter x Depth	9 5/8"(245mm) X 3 11/16"(94mm)	11 3/16"(284mm) X 4 3/8"(111mm)	9" (229mm) X 3 1/16" (78mm)
Retro-fit Cutout Diameter	8 5/32" (207mm)	9 5/8" (245mm)	7 1/2" (191mm)

Part Number	92095 CS650DT; 92090 CS800DT 92065 CECS65DT; 92070 R70VT 70Volt Xrmm
Manual URL	www.currentaudio.com
Accessories	NC6CB; NC6CECB; NC8CB New Construction Bracket Volume Control ZL45R, ZL60S, SpeKap



CS800DT



CECS65DT



CURRENTAUDIO™

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Specifications subject to change without notice.

CSDT Series 1110 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. The CS650DT, CS800DT, and CECS65DT are packaged each with one speaker and one grille.

Only simple hand tools are required for assembly and installation.

Required tools: #2 Phillips screwdriver only, if you have new construction brackets previously installed.

Drywall Hand saw if no New Construction Brackets were installed. A saber saw may be required if you are cutting into plywood.

Painting the Speaker Grille

If the 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.

1

Using the supplied Trace Template, 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 to catch the debris.

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



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 gold plated constant tension spring-loaded terminals.



Remove about 2" of the outer jacket then strip about 1/2" 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 gold plated constant tension spring-loaded terminals.

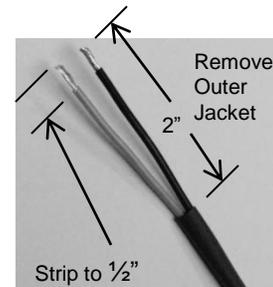
Push down on the RED (+) colored Terminal and insert the Red or copper colored conductor all the way up to the insulation into the hole at the bottom of the terminal. Now release your finger from the terminal. Next do the same to the Black or silver colored conductor and insert into the BLACK (-) colored 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.



Gold Plated
Constant Tension
Spring-loaded
Terminals



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3

With the grille removed, loosen the four (4) Dog-Leg screws a ½ turn counterclockwise with a #2 Phillips screwdriver.



4

- Grab and hold the speaker by the built-in Tweeter Bridge Handle 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 and or damage to speaker.

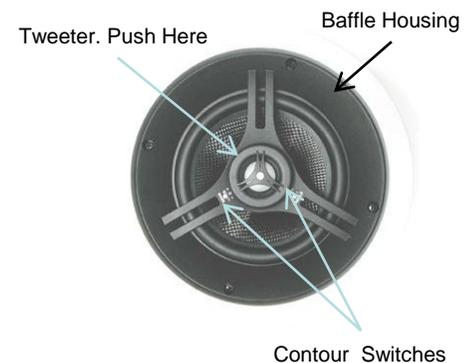
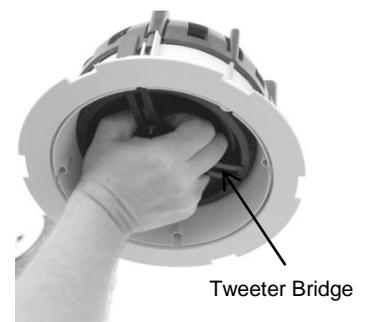
- Position your ear area at the "Sweet Spot" by slightly pushing on the outer edge with your thumb.

- **Contour Switch adjustments before installing grille.** The switches on the Tweeter Bridge (as shown in section 4) allows for contour. The switch to (+) increases the Bass or Treble 3db and to (-) reduces it by 3db. In order to achieve a flat frequency response.

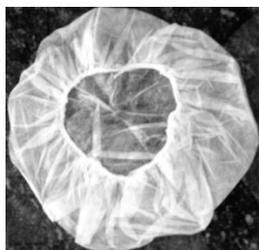
NOTE: If you have brown in insulation and/or a potential rodent problem I suggest you install the SpeKap. It is a breathable membrane that will keep rodent droppings, debris, and insulation from entering the back of the speaker that could change the performance of the speaker. See figure on next page.

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.



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6.5" In-Ceiling



8" In-Ceiling

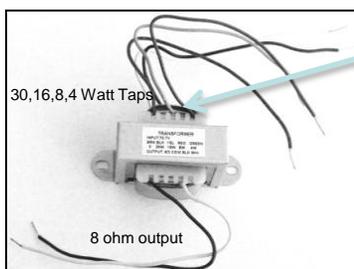


8" In-Wall

SpeKap

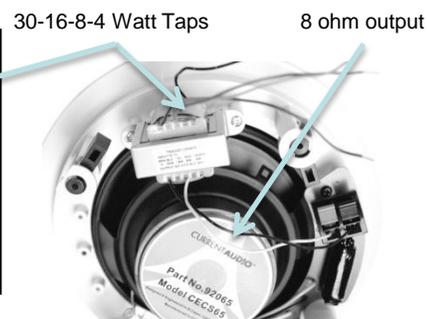
Breathable Membrane

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

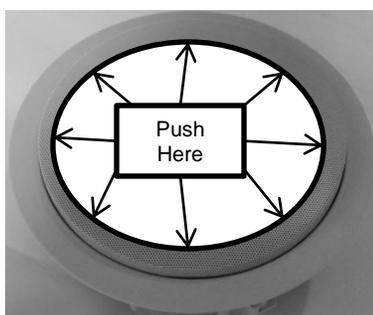


R70VT Mounted on CECS

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 Lifetime Warranty

Current Audio speakers are warranted to be free from defects in materials and or workmanship to the original retail purchaser provided the speaker was purchased and installed from a Current Audio 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 LLC. 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.