

CS FastLoc™ Series Ceiling Speaker User's Installation Guide

Low Profile, In-Ceiling, Coaxial, Infinite Baffle Loudspeaker with FastLoc™ Grille

The easy to install CSFL 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 CS series are timbre matched to the 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.

These speakers feature the innovative FastLoc™ zero edge quick connect grille. Architects and designers have resisted the size of the traditional bezel. The FastLoc™ feature, found only at Current Audio, exhibits the smallest exposed bezel that virtually disappears into the ceiling. But the major feature is the Patent Pending design that allows for rapid install that conforms to uneven surfaces. The grille is anodized aluminum, not steel. It will not rust like magnetic grilles. The FastLoc™ feature prevents the grille from falling off even in earthquakes and does not collect ferric dust on magnets that cause multiple sunbursts around the edge.

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 5 year warranty you are assured years of superior trouble free operation.



SPECIFICATIONS for CS65FL Series	CS650FL	CS651FL	CS654FL
Driver with Butyl Rubber Surround	MetaPlex Composite	Injection Molder Carbon Fiber	Woven Carbon Fiber
Tweeter, 1", Diffraction-less, Dome	Silk Ferrofluid Cooled	Aluminum Ferrofluid Cooled	Ceramic Coated Aluminum Ferrofluid Cooled
Frequency Response	42Hz-20kHz	40Hz-20kHz	35Hz-21kHz
Power handling	5-100 Watts	5-125 Watts	5-150Watts
SPL @ 1 Watt/1 meter	90db	90db	91.5db
Impedance 8 ohm Nominal	Fixed Crossovers	3 Position Crossovers	3 Position Crossovers
Diameter x Depth	10 1/4" (260mm) x 3 3/4" (97mm)	10 1/4" (260mm) x 3 3/4" (97mm)	10 1/4" (260mm) x 3 3/4" (97mm)
Grille Diameter	13" (330mm)	13" (330mm)	13" (330mm)
Retro-fit Cutout Diameter	8 1/4" (209.6mm)	8 1/4" (209.6mm)	8 1/4" (209.6mm)

Part Number	92400 CS650FL; 92017 CS651FL; 92016 CS654FL; 92013 CS801FL; 92113 CS802FL; 92014 CS804FL; 92070 R70VT 70Volt Xmr
Manual URL	www.currentaudio.com
Accessories	NC6CB; NC8CB New Construction Bracket Volume Control ZL45R, ZL60S, SpeKap



Specifications subject to change without notice.



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CS FL Series 10132011 RPA

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SPECIFICATIONS for CS80FL Series	CS801FL	CS802FL	CS804FL
8" Driver with Butyl Rubber Surround	Injection Molder Carbon Fiber	Aluminum	Woven Carbon Fiber
Tweeter, 1", Diffraction-less Pivoting, Dome	Aluminum Ferrofluid Cooled	Aluminum Ferrofluid Cooled	Ceramic Coated Aluminum Ferrofluid Cooled
Frequency Response	35Hz-20kHz	38Hz-20kHz	33Hz-21kHz
Power handling	5-150 Watts	5-150 Watts	5-150Watts
SPL @ 1 Watt/1 meter	90db	91db	91.5db
Impedance 8 ohm Nominal	3 Position Crossovers	3 Position Crossover s	3 Position Crossover s
Overall Diameter x Depth	11 1/4"(286mm) X 4 3/8"(111mm)	11 3/16"(286mm) X 4 3/8"(111mm)	11 3/16"(286mm) X 4 3/8"(111mm)
Grille Diameter	13" (330mm)	13" (330mm)	13" (330mm)
Retro-fit Cutout Diameter	9 3/4" (248mm)	9 3/4" (248mm)	9 3/4" (248mm)

Packaging and Enclosed Parts

Please inspect your pack for damaged or missing parts. Notify your supplier if any discrepancies occur. There are four (4) parts in the package: Two (2) main speaker housings and two (2) grilles.

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

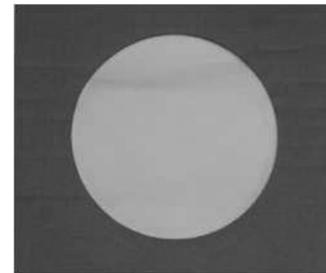
If grille requires painting, carefully remove the white scrim cloth on the inside of the FastLoc Grille and save for reinstallation. This cloth is provided for aesthetic purpose only. Either spray paint the grille or use a stiff stipple paint brush. Do Not clog the perforated holes as this will impede the acoustics of the speaker. No masking is required on the wall or speaker baffle like on conventional speakers. With this system the grille can be easily color updated anytime.

1 Cut Hole for FastLoc™ Speaker

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 Connect Wires to FastLoc™ Crossover

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.

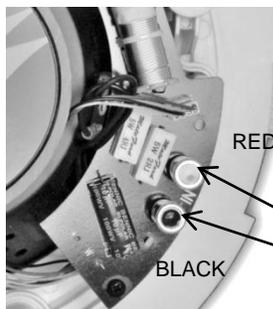
Remove about 2" of the outer jacket then strip about 1/2" insulation from each wire and slightly twist the strands to ensure all strands can be inserted into the hole. Refer to the next pictures for location of the gold plated constant tension spring-loaded terminals and strip gauge.

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.

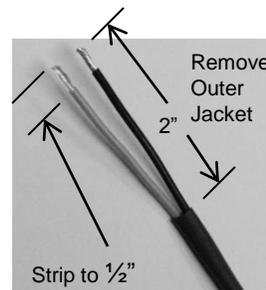
Note: Sometimes your wire color may be White (+) and Green (-).

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

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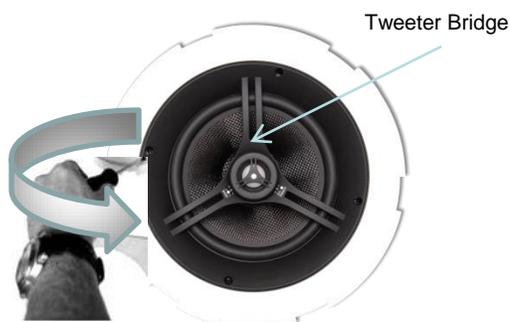


Gold Plated
Constant Tension
Spring-loaded
Terminals

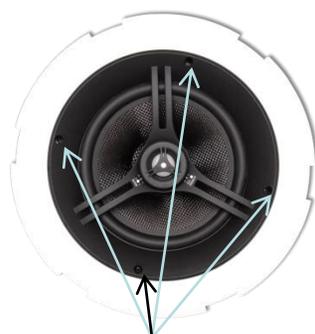


3 Prepare the Speaker for Install

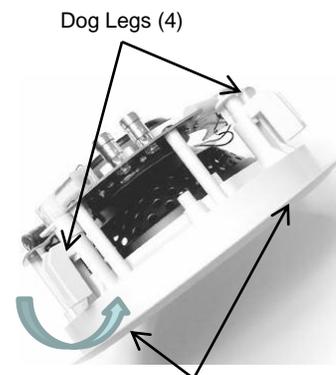
With the grille removed, loosen the four (4) Dog-Leg screws a 1/2 turn counterclockwise with a #2 Phillips screwdriver.



Turn CCW to Loosen



Dog-Leg Screws



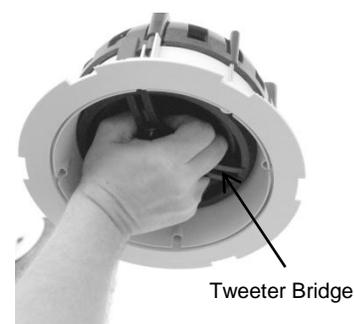
Turn Screw CW to Expand and Tighten

4 Install FastLoc™ Speaker

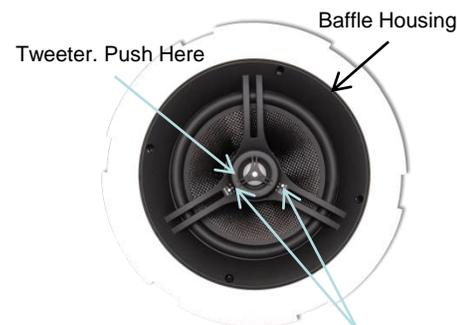
- Grab and hold the speaker by the built-in Tweeter Bridge Handle as shown. Do Not put fingers into the tweeter material in the center of the speaker.
WARNING! Denting or deforming the tweeter dome will change the acoustics of the speaker.
- Insert the connected speaker into the ceiling hole and with 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.
- Adjust the Tweeter position to your ear area at the "Sweet Spot" by slightly pushing on the outer edge of the tweeter with your thumb.
- **Make the crossover Contour Switch adjustments before installing grille.**
The Bass and Treble switches on the Tweeter Bridge (as shown in section 4) allows for contour adjustment. Moving the switch to (+) increases the Bass or Treble 3db and to (-) reduces it by 3db. In the (O) setting you achieve a flat frequency response.

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 Bridge

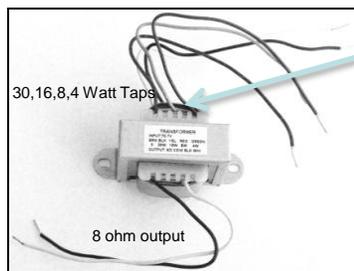
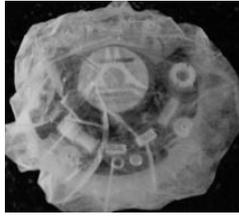


Contour Switches

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SpeKap

Breathable Membrane
Keeps Debris, Rodent Droppings and Insulation
out of the Speaker



R70VT

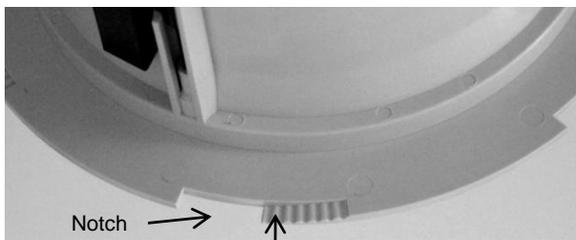
70 Volt to 8 ohm
Directly attaches to stand-offs
on the CE Series and all CS65
Series

30-16-8-4 Watt Taps

8 ohm output

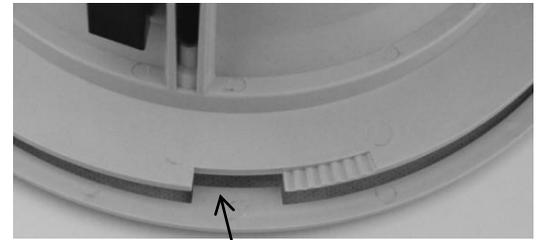


R70VT Mounted on CECS



Notch

Speaker Detents



Grille Tab



Step 1, Align Tabs to Notches



Step 2, Twist CW



Step 3, Rotate and Lock

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.