



# CS Series Ceiling Speaker User's Installation Guide

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

	<b>CS801FL</b>	<b>CS804FL</b>	<b>CS650FL</b>	<b>CS651FL</b>	<b>CS654FL</b>
Driver	8" Injection molded carbon fiber cone w/ butyl rubber surround	8" Woven Carbon Fiber Cone with Butyl Rubber Surround	6.5" MetaPlex™ composite cone w/butyl rubber surround	6.5" Injection molded carbon fiber cone w/ butyl rubber surround	6.5" Woven carbon fiber cone w/ butyl rubber surround
Tweeters	Diffractionless, 1" (25mm) pivoting, aluminum dome tweeter, ferrofluid cooled	Diffractionless, 1" (25mm) pivoting, ceramic coated aluminum dome tweeter, ferrofluid cooled	Diffractionless, 1" (25mm) pivoting, silk dome tweeter, ferrofluid cooled	Diffractionless, 1" (25mm) pivoting, aluminum dome tweeter, ferrofluid cooled	Diffractionless, 1" (25mm) pivoting, ceramic coated aluminum dome tweeter, ferrofluid cooled
Frequency Response	38Hz - 20kHz	33Hz - 21kHz	42Hz - 20kHz	40Hz - 20kHz	35Hz - 21kHz
Impedance	8, 6 or 4 ohms dependant on driver setting	8, 6 or 4 ohms dependant on driver setting	8 Ohms. Fixed Crossovers	8, 6 or 4 ohms dependant on driver setting	8, 6 or 4 ohms dependant on driver setting
Power Handling	5-150 Watts	5-150 Watts	5-100 Watts	5-125 Watts	5-150 Watts
SPL	90 db 1W/1m	91.5 db 1W/1m	90 db 1W/1m	90 db 1W/1m	91.5 db 1W/1m
Diameter x Depth	11 7/16" (296mm) x 4 3/8" (111mm)	11 7/16" (296mm) x 4 3/8" (111mm)	9 3/8" (237mm) x 3 7/8" (98mm)	9 3/8" (237mm) x 3 7/8" (98mm)	9 3/8" (237mm) x 3 7/8" (98mm)
Retrofit Cutout Diameter	9 3/4" (247mm)	9 3/4" (247mm)	8 1/4" (210mm)	8 1/4" (210mm)	8 1/4" (210mm)
FastLoc Grille Diameter x Height	11 13/16" (300mm) x 13/16" (4.74mm)	11 13/16" (300mm) x 13/16" (4.74mm)	9 3/4" (247mm) x 13/16" (4.74mm)	9 3/4" (247mm) x 13/16" (4.74mm)	9 3/4" (247mm) x 13/16" (4.74mm)
Bracket Type	NC8CB	NC8CB	NC6CB	NC6CB	NC6CB

## 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.

## Installation

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.

## Installation (cont.)

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.

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.

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

Hold the speaker on the outer bezel. 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.

**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.

**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.

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## Fastloc Grille Installation



Align Tabs to Notches



Twist



Rotate and Lock

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### Limited 5-Year Warranty

Current Audio powered subwoofers are warranted to be free from defects in materials and or workmanship to the original retail purchaser for a period of one year, provided the speaker was purchased from a Current Audio Authorized Dealer.

In the event of defective materials and or workmanship, Current Audio, 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. Suggest saving original packaging for shipping. Current Audio will not be responsible for any return shipping damage.

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, 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.