

WSFL FastLoc™ Series In-Wall Speaker User's Installation Guide

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

The easy to install WSFL series speakers are a full range In-Wall loudspeaker that incorporates high tech woofer materials with a butyl rubber surround and a state-of-the-art patented pivoting dome Diffractionless Ferrofluid cooled tweeter. The 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. This design is a great choice for stereo and surround sound applications. Our LCRFL series is a more accurate choice for 3-D audio.

For efficiency and consistency the WSFL series speakers are timbre matched to the WS, FIT, LCR and CS series of speakers. In addition, most of the WSFL speakers incorporate a 2 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.

Six 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.



WS650FL

SPECIFICATIONS for WS65FL Series	WS650FL	WS651FL
Driver with Butyl Rubber Surround	MetaPlex Composite	Injection Molder Carbon Fiber
Tweeter, 1"(25mm), Pivoting Dome	Silk Ferrofluid Cooled	Aluminum Ferrofluid Cooled
Frequency Response	42Hz-20kHz	40Hz-20kHz
Power handling	5-100 Watts	5-125 Watts
SPL @ 1 Watt/1 meter	90db	90db
Impedance 8 ohm Nominal	Fixed Crossovers	2 Position Crossovers
Length x Width x Depth	12 1/4"(311mm)x8 3/16"(208mm)x3 1/16"(78mm)	12 1/4"(311mm)x8 3/16"(208mm)x31/16"(78mm)
Retro-fit Cutout Length x Width	10 13/16"(270mm)x6 5/8"(168mm)	10 13/16"(272mm)x6 5/8"(168mm)

Part Number	92120 WS650FL; 92119 WS651FL; 92117 WS801FL; 92116 WS804FL; 92070 R70VT 70Volt Xrmr
Manual URL	www.currentaudio.com
Accessories	NC6WB; NC8WB New Construction Bracket Volume Control ZL45R, ZL60S, SpeKap



WS650FL



WS651FL



WS650FL



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SPECIFICATIONS for WSFL80 Series	WS801FL	WS804FL
Driver 8" with Butyl Rubber Surround	Injection Molded Carbon Fiber	Woven Carbon Fiber
Tweeter, 1"(25mm) Pivoting, Dome	Aluminum Ferrofluid Cooled	Ceramic Coated Aluminum Ferrofluid Cooled
Frequency Response	38Hz-20kHz	33Hz-21kHz
Power handling	5-150 Watts	5-150Watts
SPL @ 1 Watt/1 meter	90db	91.5db
Impedance 8 ohm Nominal	3 Position Crossovers	3 Position Crossovers
Length x Width x Depth	14 7/8"(378mm) x 10 1/8"(257mm) x 3/4"(95mm)	14 7/8"(378mm) x 10 1/8"(257mm) x 3/4"(95mm)
Retro-fit Cutout Length x Width	13 9/16"(345mm) x 8 3/4"(223mm)	13 9/16"(345mm) x 8 3/4"(223mm)

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) FastLoc™ grilles and (1) trace template..

Only simple hand tools are required for assembly and installation.

Required tools: If you have new construction brackets previously installed only a #2 Phillips screwdriver is needed.

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

Painting the FastLoc™ Speaker Grille

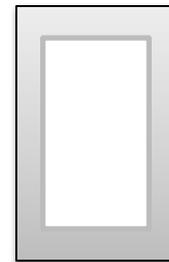
If grille requires painting, carefully remove the white scrim cloth on the inside of the FastLoc Grille and save for reinstallation. This cloth is provided for aesthetic purpose only. Either spray paint the grille or use a stiff stipple paint brush. Do Not clog the perforated holes as this will impede 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 wall and trace along the inside cutout. 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 wall material along the pattern. A drywall saw is perfect for this step. Hold a box or trash can under your cutting to catch the debris. Placing a piece of painters tape under the cutline bent at a right angle will further catch any drywall dust from falling to the floor.

NOTE: A stud finder may be helpful to locate the wall studs. You want to layout the hole to the side of any studs to allow enough room for the Dog-Legs to cinch down.



Trace Template

2 Connect Wire to Speaker 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.

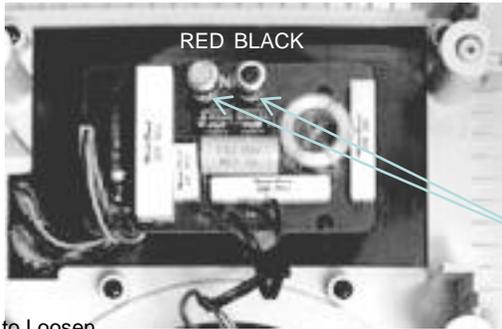
Remove about 2" of the outer jacket then strip about 1/2" insulation from each wire and slightly twist the strands to ensure all strands can be inserted into the hole. Refer to picture on next page for location of the gold plated constant tension spring-loaded terminals.

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.

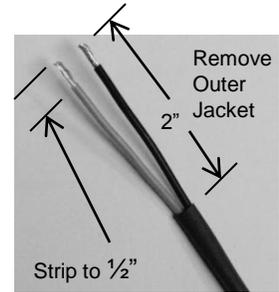
Note: Sometimes your wire color may be White (+) and Green (-).

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

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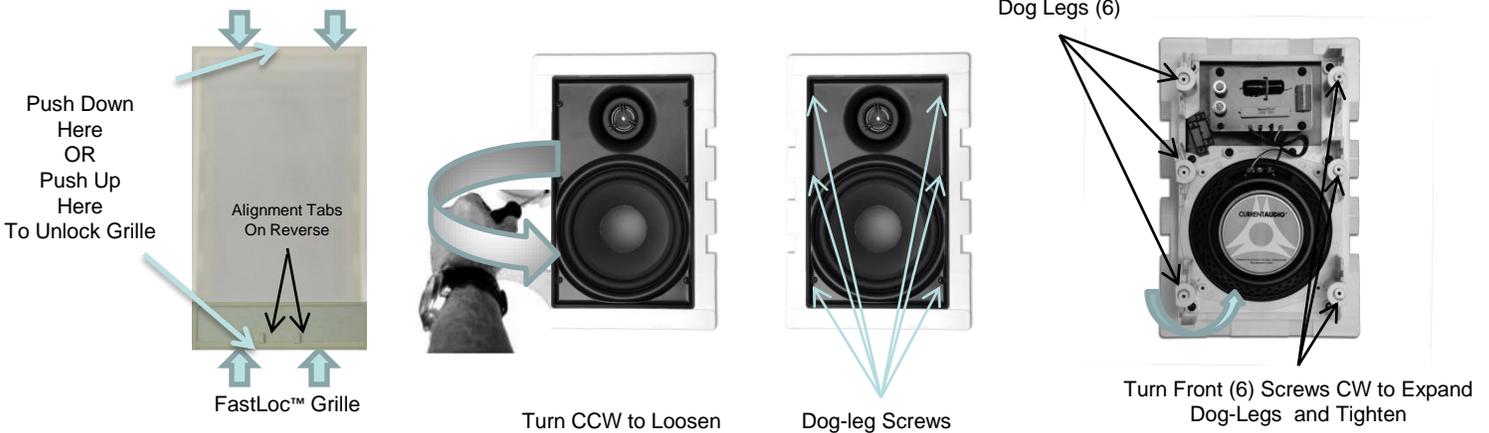
Turn CCW to Loosen



Strip Gauge

3 Prepare Speaker for Install

With the grille removed, loosen the six (6) Dog-Leg screws a ½ turn counterclockwise with a #2 Phillips screwdriver.



4 Install FastLoc™ Speaker

- Hold the speaker by Bezel 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 cut-out hole and with a #2 Phillips screwdriver tighten the six(6) 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 (0) setting you achieve a even 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. 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. The CECS and CS speakers have built-in stand-offs to attach the transformer. See figure on next page.



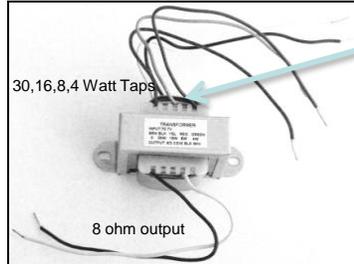
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In-Wall



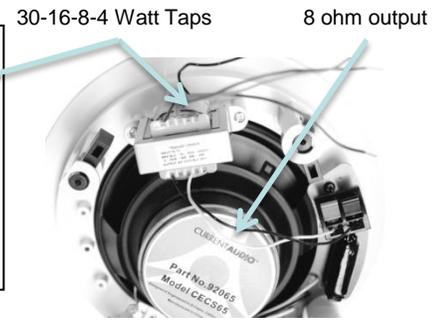
SpeKap

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



R70VT

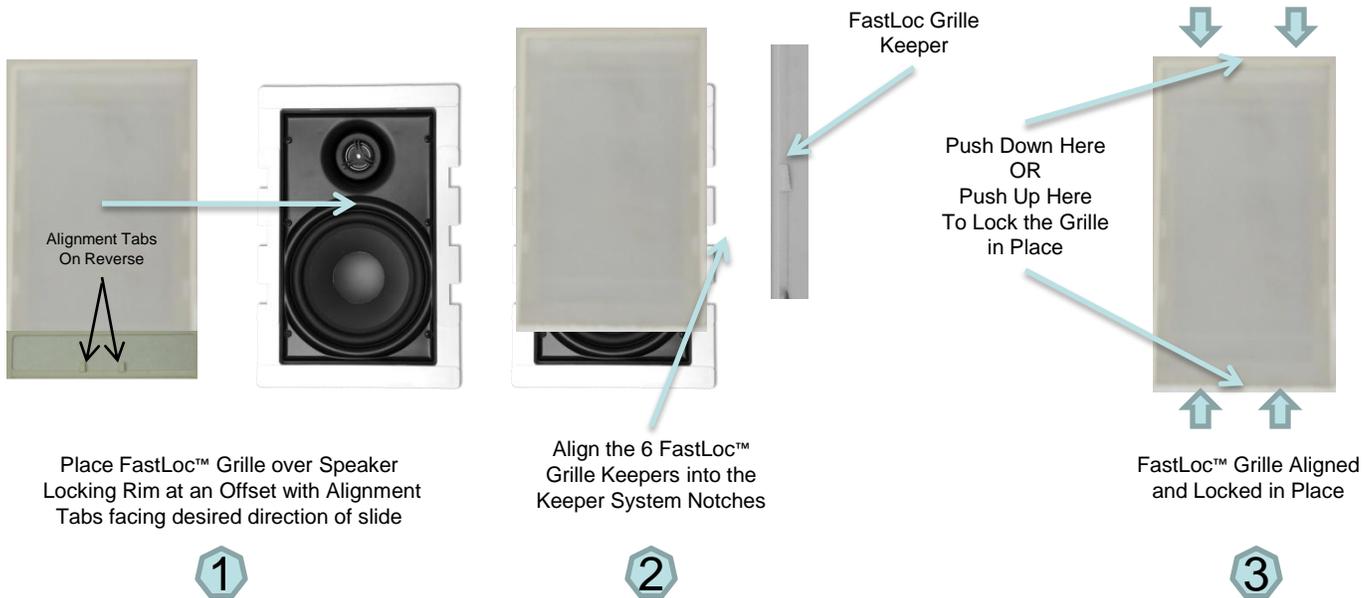
70 Volt to 8 ohm
Directly attaches to stand-offs
on the CECS Series and all
CS65 Series



R70VT Mounted on CECS

5 Install FastLoc™ Grille

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.



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 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.