ESSENCE IC5/ESSENCE IC6/ESSENCE IC8

Essence® 2-Way In-Ceiling Speakers

The product of expert Crestron® audio engineering, Essence® speakers deliver the pinnacle of performance for demanding residential installations. Select esoteric materials, top shelf components, and a refined, high end appearance underscore the meticulous design behind each model. The result is a complete line of in-wall and in-ceiling speakers worthy of a place in every room of the finest custom home.

The Essence line promises the ultimate in installed audio design, delivering simply stunning sound quality while minimizing any impact on your décor, thanks to paintable zero-bezel grilles.

1 Installation

Prepare Mounting Holes

Before finalizing the speaker location, check to make sure there are no fixtures, pipes, air ducts, joists, or other possible obstructions. Use a good quality stud finder to locate joists. If there is no access to the area above the ceiling, and it is uncertain that there are no obstructions, carefully drill a small hole just through the ceiling near the middle of the proposed speaker location(s) and use one of the commercially available inspection devices designed for this purpose, or do one of the following:

- Use a piece of stiff wire, bent into an "L" shape, with one end long enough to explore an area equal to the size of the speaker with the toggle clamps extended. Insert the wire into the hole, make sure it rotates freely in a complete circle and that there is sufficient depth,

  or

- Use a drywall saw to cut a small hole at a 45° angle toward the inside of the hole. An angle cut simplifies repair since the removed piece can be reinserted to help plug the hole.
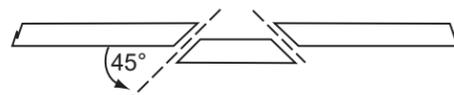
If there are no obstructions, use the supplied template to trace outlines of the mounting holes on the ceiling. Cut the final mounting holes at a 90° angle to the ceiling.

Paint the Speaker Grilles

Speaker grille painting should be done prior to mounting.

1. Carefully remove the material on the underside of the grille and set it aside for reinstallation. It may be necessary to use a knife or other sharp instrument to free an edge of the material so it can be peeled away. Use care to avoid cutting or tearing the material.
2. Dry brush or lightly spray the surface to be painted. Use care to avoid clogging the holes in the grille.
3. Once the paint is dry, reinstall the material to the underside.

Install Cables

Run the cables from the audio source to each speaker location following all appropriate local codes. Strip the ends of the speaker cables 1/4" to 1/2" (6 mm to 12 mm) and twist the exposed strands.

Mount/Remove Speakers

The in-ceiling speakers include three toggle clamps that simplify the mounting process. If the grilles are mounted on the speakers, remove them before proceeding. (Refer to "Install/Remove Grilles" below.)

1. Connect the speaker cable wires to the spring terminals by pressing the top of the terminals down and inserting the exposed strands into the hole. Make sure that the **+** wires go to the **+** (red coded) terminals, and the **–** wires go to the **–** (black coded) terminals.
2. With the toggle clamps turned inward, insert the speaker into the opening. As the three screws on the front of the speaker are tightened, the toggle clamps first rotate into clamping position (refer to the figure to the right) and then begin holding the speaker to the ceiling. Tighten the screws until the speaker is secured; do not overtighten.
3. Speaker removal is accomplished by reversing the procedures given in steps 1 and 2 above.
   a. Loosen the front screws to unclamp the speaker. Continue to loosen the screws until the toggle clamps rotate inward.
   b. When the speaker is loose, carefully remove it from the opening.
   c. Disconnect the wires from the terminals.

Install/Remove Grilles

The zero-bezel frameless grilles are held in place by powerful magnets. To remove the grilles, grip the edges and pull away from the speaker.

Rear View (Typical)
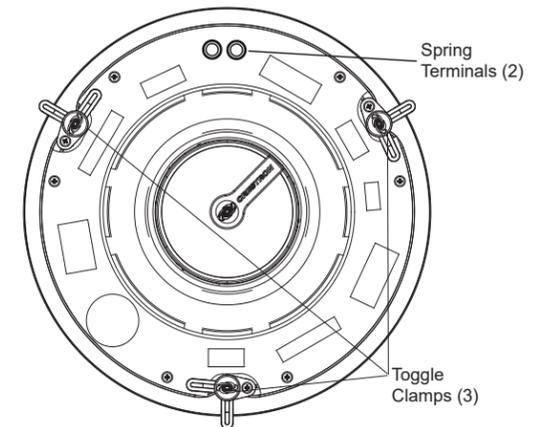
Spring Terminals (2)

Toggle Clamps (3)

Front View (Typical)

Tighten Screws

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Specifications subject to change without notice.

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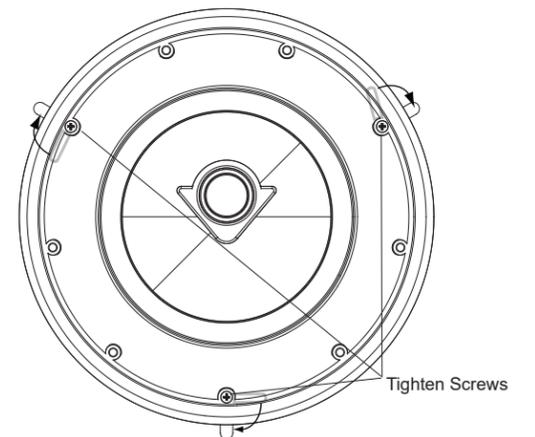
2 Specifications

ESSENCE IC5/IC6/IC8 Specifications

SPECIFICATION	ESSENCE IC5	ESSENCE IC6	ESSENCE IC8
Features & Performance			
Woofer[1]	5.25 in (134 mm)	6.50 in (165 mm)	8.00 in (203 mm)
Tweeter[2]	1.10 in (28 mm)	1.10 in (28 mm)	1.10 in (28 mm)
Crossovers	4th order Linkwitz-Riley	4th order Linkwitz-Riley	4th order Linkwitz-Riley
Crossover Frequency	2 kHz	2 kHz	2 kHz
Impedance	8 Ω nominal	8 Ω nominal	8 Ω nominal
Frequency Response	55 Hz to 20 kHz (±3 dB)	45 Hz to 20 kHz (±3 dB)	38 Hz to 20 kHz (±3 dB)
Frequency Range	45 Hz to 20 kHz (-10 dB)	35 Hz to 20 kHz (-10 dB)	30 Hz to 20 kHz (-10 dB)
Power Handling	125 watts program	150 watts program	175 watts program
Sensitivity	88.5 dB @ (W/m)	89.5 dB @ (W/m)	91.5 dB @ (W/m)
Connections			
Input	(2) spring terminals		
Maximum Wire Size	10 AWG		
Environmental			
Temperature	41° to 104° F (5° to 40° C)		
Humidity	10% to 90% RH (non-condensing)		
	For indoor use only		
Construction			
Baffle	ABS plastic, black		
Grille	Steel with textured finish, paintable, round , magnetically held zero bezel frameless		
Mounting	Flush ceiling mount using three integral spring-loaded toggle clamps, 1.35 in (34 mm) maximum surface thickness		
Dimensions[3]			
Diameter	8.30 in (211 mm)	9.28 in (236 mm)	11.64 in (296 mm)
Depth	4.07 in (104 mm)	4.27 in (109 mm)	4.94 in (126 mm)
Minimum Mounting Depth	3.88 in (99 mm)	4.08 in (104 mm)	4.75 in (121 mm)
Recommended Cutout Diameter	7.40 in (188 mm)	8.40 in (214 mm)	10.80 in (275 mm)
Weight[3]	4.58 lb (2.1 kg)	4.85 lb (2.2 kg)	7.09 lb (3.3 kg)
Available Models	ESSENCE IC5-W-T Essence 5.25" 2-Way In-Ceiling Speakers, Pair, White Textured	ESSENCE IC6-W-T Essence 6.5" 2-Way In-Ceiling Speaker, Pair, White Textured	ESSENCE IC8-W-T Essence 8" 2-Way In-Ceiling Speaker, Pair, White Textured
Available Accessories	SPKA-NCTP-IC500 New-Construction Speaker Templates	SPKA-NCTP-IC600 New-Construction Speaker Templates	SPKA-NCTP-IC800 New-Construction Speaker Templates

1. Woven Kevlar® with rubber surround, vented pole piece and cast aluminum basket
2. Advanced synthetic polymer dome, ferrofluid cooling, offset post mounted
3. Per speaker

Side and Rear Views (Typical)

Depth

Minimum Mounting Depth

Diameter

Recommended Cutout Diameter
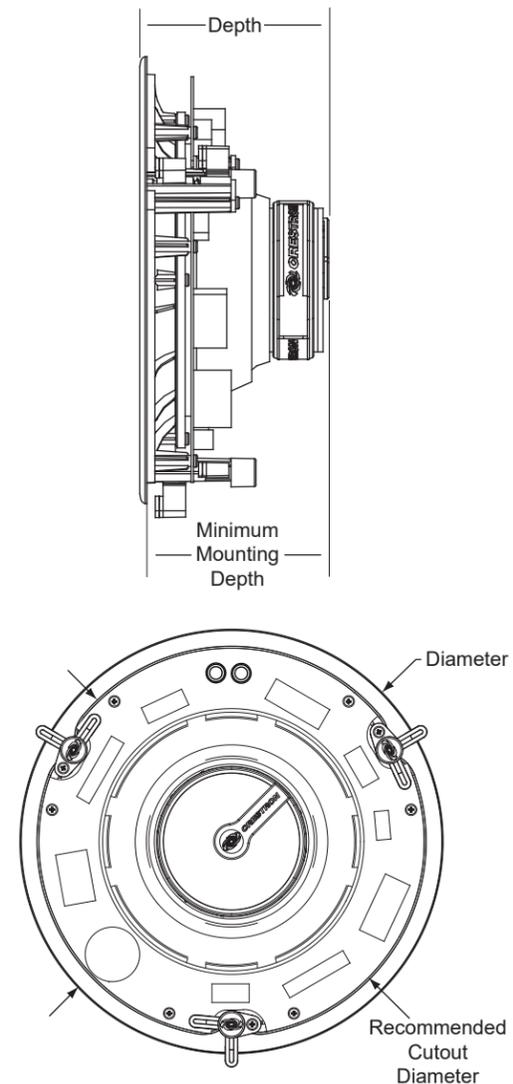
3 Problem Solving

Troubleshooting

The following table provides corrective action for possible trouble situations. If further assistance is required, please contact a Crestron customer service representative.

TROUBLE	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
No sound or intermittent sound from speakers.	Cable connection error.	Verify cable connections between amplifier and speakers.
	Amplifier not receiving input signal or amplifier malfunction.	Verify amplifier is functioning correctly, that it is receiving an input signal and that correct input source is selected.
Constant noise such as buzz, hum, or hiss from speakers.	Faulty device in system.	Verify all devices in system are functioning properly.
	System grounding fault.	Verify system grounding.
Poor low frequency output.	Incorrect polarity connection at speaker or amplifier.	Verify speaker connection polarity (+ on amplifier to + on speaker).

Further Inquiries

To locate specific information or resolve questions after reviewing this guide, contact Crestron's True Blue Support at 1-888-CRESTRON [1-888-273-7876] or, for assistance within a particular geographic region, refer to the listing of Crestron worldwide offices at www.crestron.com/offices.

To post a question about Crestron products, log onto Crestron's Online Help at www.crestron.com/onlinehelp. First-time users must establish a user account to fully benefit from all available features.

Future Updates

As Crestron improves functions, adds new features and extends the capabilities of the ESSENCE IC5/IC6/IC8 speakers, additional information may be made available as manual updates. These updates are solely electronic and serve as intermediary supplements prior to the release of a complete technical documentation revision.

Check the Crestron Web site periodically for manual update availability and its relevance. Updates are identified as an "Addendum" in the Download column.

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