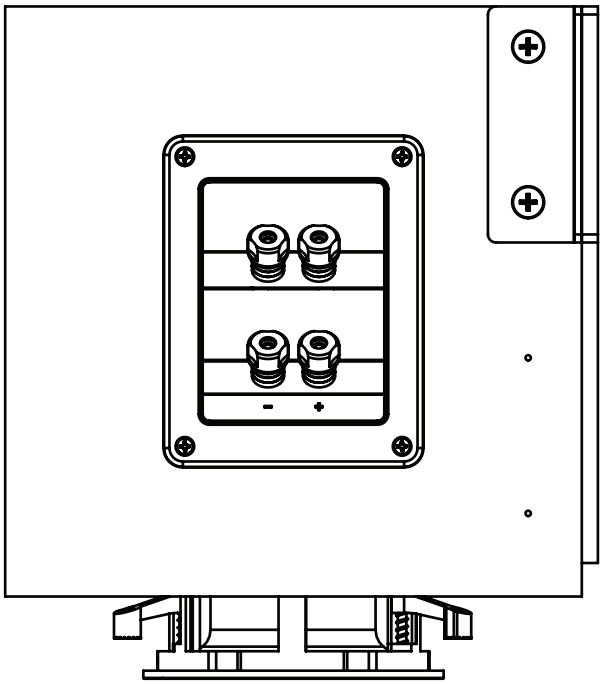
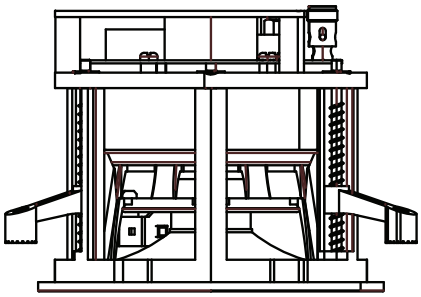
episode

INSTALLATION MANUAL

Impression Series
ES-IM4IC
ES-IM6-BP-SUB





REAL. LIFE. SOUND.

WELCOME TO EPISODE

Thank you for purchasing a great product from Episode®, one of the best-sounding speaker lines available today. We appreciate your purchase and are committed to providing the highest quality products possible.

Our Impression speakers and bandpass subwoofers allow dealers to work side-by-side with interior designers to provide excellent sound for their customers while working within the aesthetic demands of the customer. Using a minimalistic design, Impression in-ceiling speakers use a very small grille to avoid hindering the design of the space. The Impression series uses 4-inch satellite speakers and a 6 1/2-inch bandpass subwoofer to deliver state-of-the-art sound using three scientific principles: low distortion, wide dispersion, and flat-frequency response, giving users complete and immersive audio that's clean and accurate.

This kit provides fantastic flexibility for building different configurations, depending on the needs of the customer—all while using a standard two-channel amplifier or AV receiver:

- Subwoofer only
- 2 satellites only
- 2 satellites + 1 subwoofer
- 4 satellites only
- 4 satellites + 1 subwoofer
- 4 satellites + 2 subwoofers

All of the above can be wired to two channels of a standard amplifier or AV receiver while maintaining a safe nominal impedance for today's two-channel amplifiers. Minimum nominal system impedance from any of the above configirations is 4 ohms.

Each ES-IM6-BP-SUB Impression Bandpass Sub comes with:

(1) Bandpass sub unit
(1) Port tube
(1) 4" port tube ceiling mount
(1) Serial wire connector
Mounting hardware
(1) Round grille
(1) Square grille
(1) Ceiling cutout template

Each ES-IM4IC Impression Satellite Speaker comes with:

(1) Impression Satellite Speaker
(1) Round grille
(1) Square grille
(1) Ceiling cutout template

TOOLS REQUIRED

- #2 Phillips screwdriver
- Flathead screwdriver
- Sheetrock saw (hole must be slightly larger than a 4" hole saw)
- Wire strippers

Note: This speaker system is designed only for installations where you have full, unobstructed access to ceiling joists, such as in new construction or within unfinished attic space.

SPEAKER WIRING

Recommended Wiring

- 8 ohm (low-impedance) applications: 12 to 18 AWG, stranded, 2-conductor cable.

Best practices

- In most cases, it is easiest to install a speaker system by pre-wiring and then installing the speakers.
- Plan the locations of the speaker holes, volume control boxes, and the amplifier, and be sure wiring can be routed everywhere necessary before cutting any holes.
- Install spare wires for redundancy when you must run wire through a location that will not be accessible later.
- When you aren't enclosing speaker wire fully in conduit, make sure to leave enough of a wire loop for the speaker wiring to allow you to connect the wires to the speaker either on the ground or at the top of the ladder.

Wiring connections

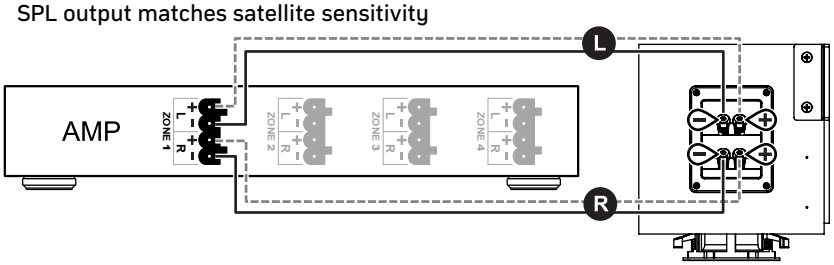
1. Strip the insulation on each conductor back ¼" and secure each wire into the appropriate terminal.

NOTE: Make sure no loose strands meet between the + and – connection and that the polarity is correct.

Wiring guides

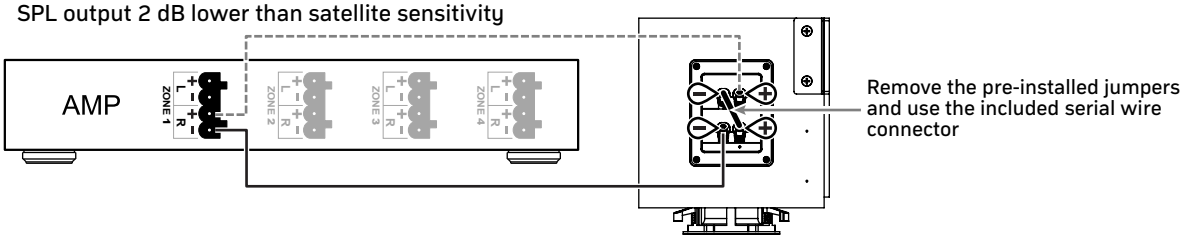
0.1 - Discrete subwoofer driven from 1 zone / 2 channels

No satellite speakers
Single subwoofer
Conventional parallel wiring
(Impedance: 4.5Ω nominal / 4Ω minimum)
SPL output matches satellite sensitivity



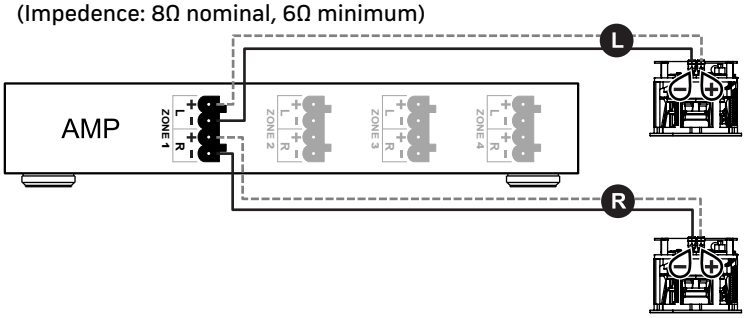
0.1 (option) - Discrete subwoofer driven from 1 zone / 1 channel

No satellite speakers
Single subwoofer
Series wiring
(Impedance: 9Ω nominal / 8Ω minimum)
SPL output 2 dB lower than satellite sensitivity



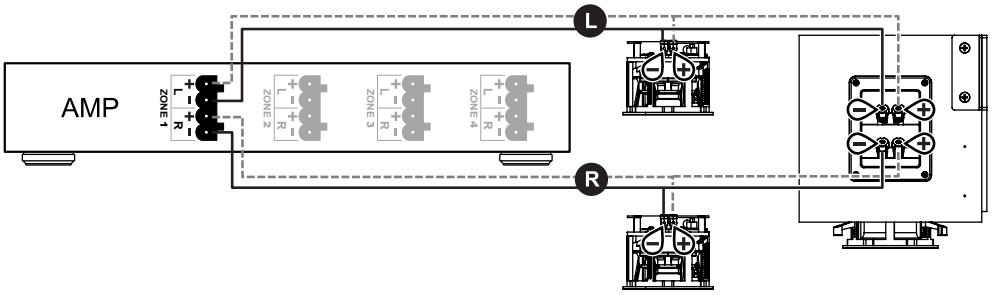
2.0 - Satellite full-range, driven from 1 zone / 2 channels

Two satellite speakers, high-pass filter OFF
No subwoofer
(Impedence: 8Ω nominal, 6Ω minimum)



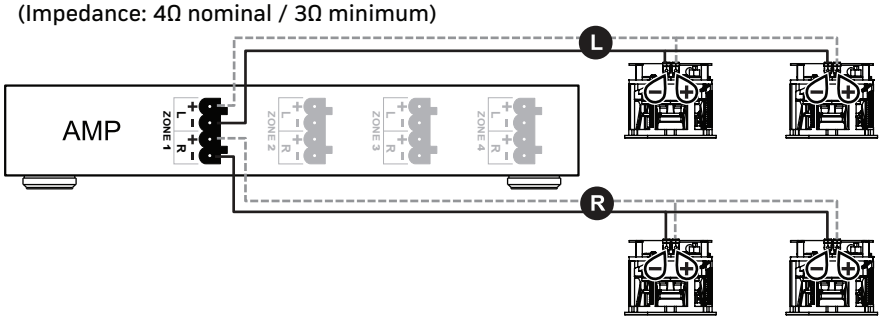
2.1 - System, driven from 1 zone / 2 channels

Two satellite speakers, high-pass filter ON
Single subwoofer
(System impedance: 6Ω nominal / 4Ω minimum - Similar SPL between satellites and subwoofer)



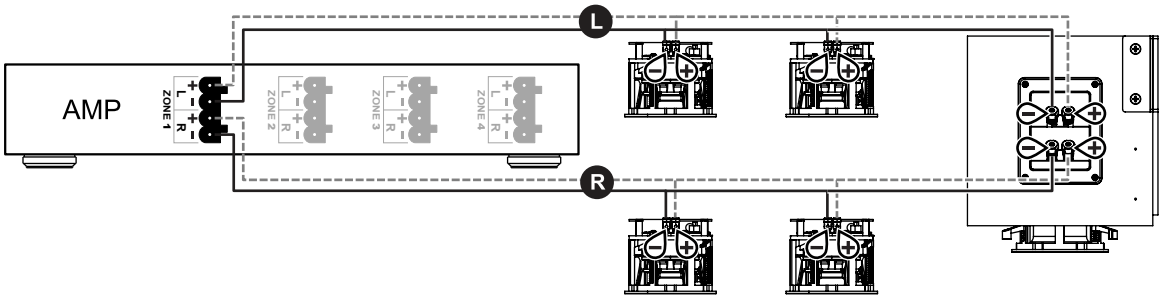
4.0 - Multi-satellite, driven from 1 zone / 2 channels

Four satellite speakers, high-pass filter OFF
No subwoofer
Conventional parallel wiring
(Impedance: 4Ω nominal / 3Ω minimum)



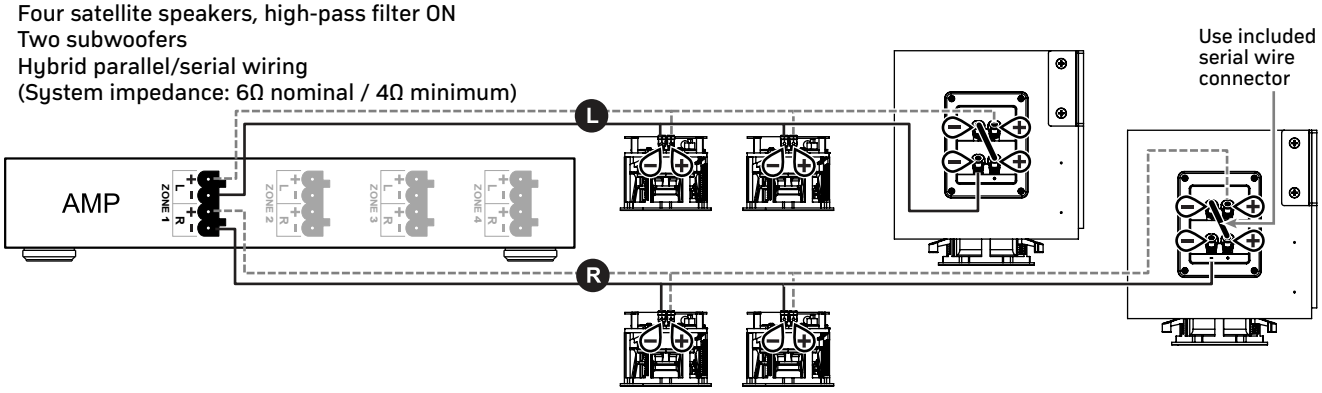
4.1 - System, driven from 1 zone / 2 channels

Four satellite speakers, high-pass filter ON
Single subwoofer
Conventional parallel wiring
(System impedance: 6Ω nominal / 4Ω minimum)



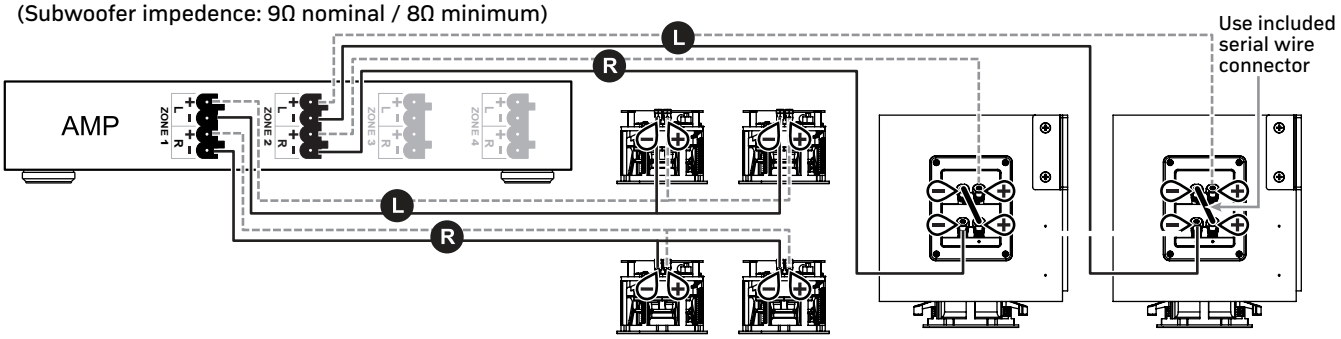
4.2 - System, driven from 1 zone / 2 channels

Four satellite speakers, high-pass filter ON
Two subwoofers
Hybrid parallel/serial wiring
(System impedance: 6Ω nominal / 4Ω minimum)



4.2 (option) - System, driven from 2 zones / 4 channels

Four satellite speakers, high-pass filter ON
Two subwoofers
Hybrid parallel/serial wiring
(Satelite impedance: 6Ω nominal / 4Ω minimum)
(Subwoofer impedence: 9Ω nominal / 8Ω minimum)



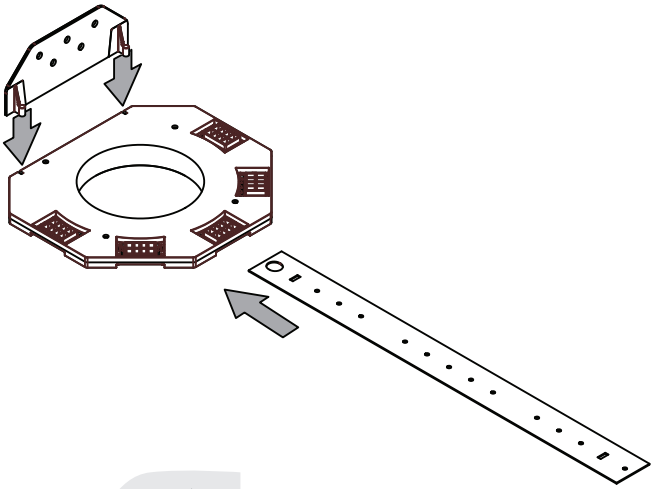
NEW CONSTRUCTION BRACKET INSTALLATION

Whether positioning your Impression satellite speakers or the subwoofer ceiling port, the New Construction Bracket (ES-IM4-BRKT-IC, not included) can simplify the process. These brackets make finish installation easier by reserving the exact space and size needed for the speaker during the framing stage of home construction. During the drywall process, the cutout can be precisely made around the bracket flange.

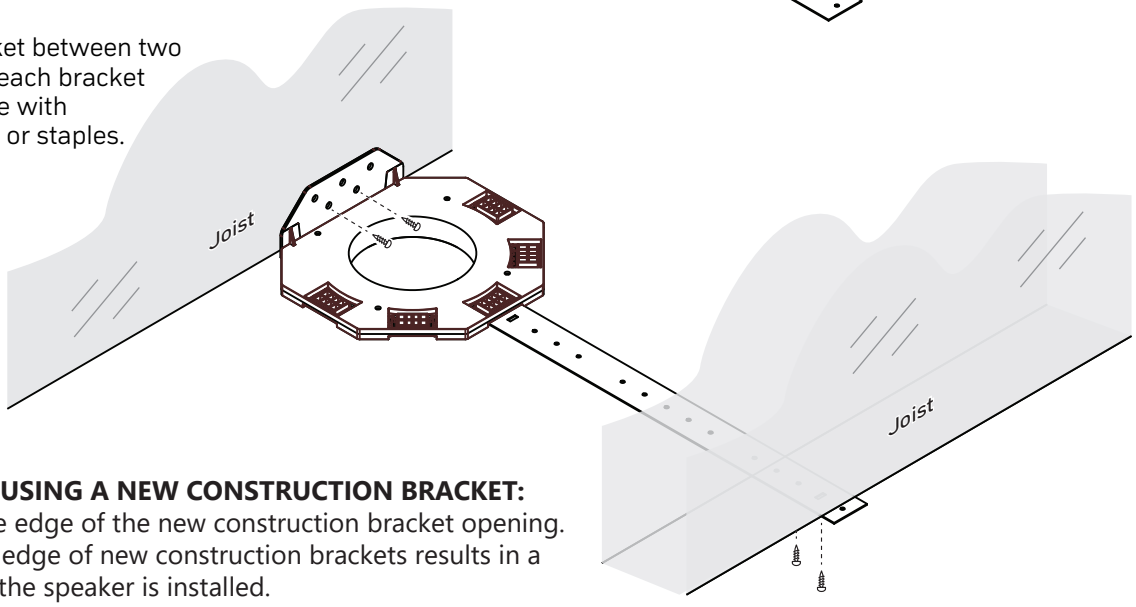
Important: For help determining the bracket location, see the respective speaker installation instructions below.

To install the new construction bracket:

1. Locate the area where the speaker will be placed in the ceiling. Keep in mind that the area should be free from electrical wires, HVAC, and plumbing.
2. Connect the wings (or edge plate, if needed) to the bracket.



3. Position the bracket between two joists and secure each bracket wing or edge plate with two screws, nails, or staples.



TAKE CAUTION WHEN USING A NEW CONSTRUCTION BRACKET:
Trim drywall to the inside edge of the new construction bracket opening. Trimming to the outside edge of new construction brackets results in a visible drywall cut when the speaker is installed.

SATELLITE SPEAKER INSTALLATION

General guidelines

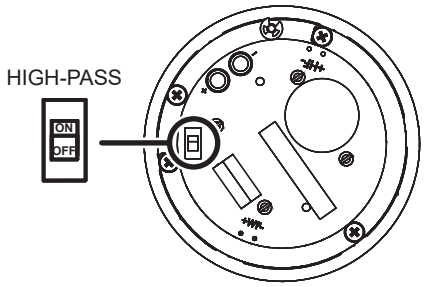
- Mount into an exact 4.1-inch hole.
- If you plan to install the optional back-can for the satellite speakers, you must attach the back-can to the new construction bracket and run wire to them before the drywall is installed.

  CAUTION: There is no way to retrofit the optional back-can for the satellite speakers after the drywall is installed. To use the optional back-can, the New Construction Bracket **must** be used, and both the New Construction Bracket and back-can **must** be installed in the ceiling before drywall installation, unless you have full access to an open area above the speaker, for example, in an openly accessible attic.

Setting the high-pass filter switch

The high-pass filter switch is located on the back of the speaker. The high-pass selection, ON or OFF, should be determined before installing the speaker.

- In the **ON** (default) position, the high-pass filter limits the low bass frequencies that are reproduced by the ES-IM4IC speaker. The high-pass filter allows for a smooth transition from the ES-IM4IC speaker to the ES-IM6-BP-SUB subwoofer.
- If the ES-IM4IC will be used without a subwoofer, the high-pass filter switch should be set to **OFF**.



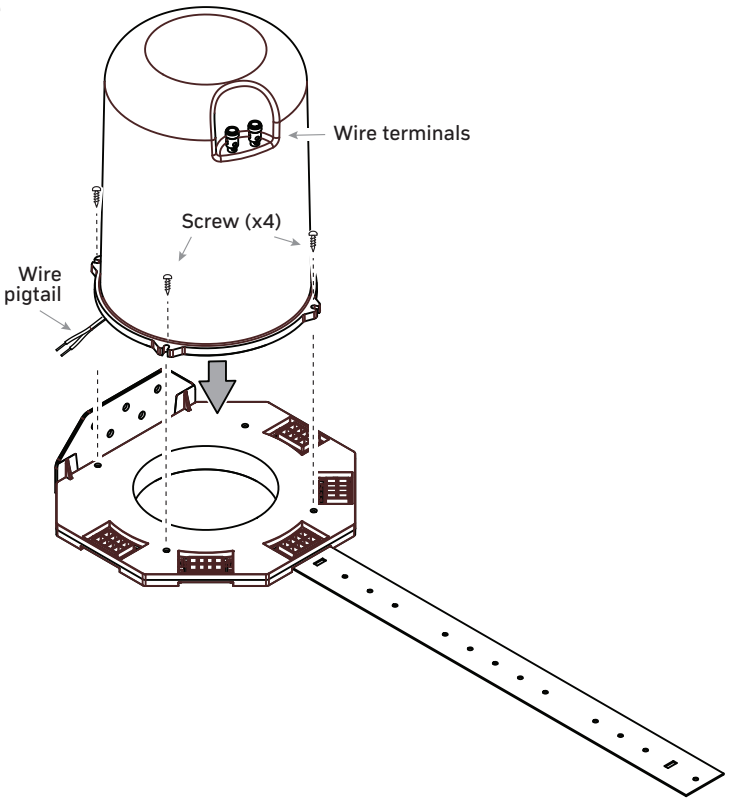
Mounting the speakers

1. Choose a location for each speaker that is free of obstructions created by joists, HVAC ductwork, electrical wire runs, plumbing, or anything else that might not allow for the depth of the speaker or create interference or noise.
2. To make installation easier, install a New Construction Bracket (ES-IM4-BRKT-IC, not included) at the location where you want the finished speaker grille. See "New Construction Bracket Installation" above.

   Caution: The New Construction Bracket is **required** if you want to use the optional back-can.
3. *Optional back-can:* After you have determined the speaker locations and have installed the New Construction Brackets, install a back-can onto each bracket.
4. Run speaker wire to the locations where the satellite speakers will be installed. If you've installed back-cans, connect the wiring to the back-can's wire terminals at this time.

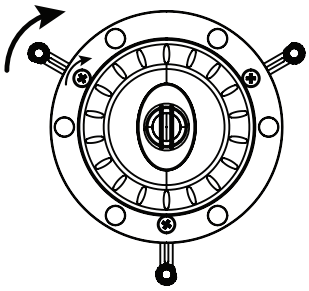
   Tip: If you do not use a back-can, you will need to fish the wiring through the opening after the ceiling is installed, so it's a good idea to temporarily secure the end of the wiring against a nearby joist or the New Construction Bracket so it's within easy reach of the opening and out of the way of potential ceiling finishing tools.

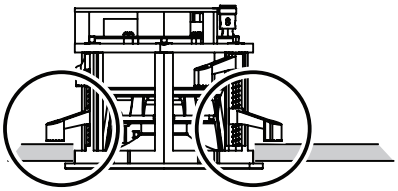
   Tip: Before the ceiling is installed, confirm and test speaker wiring.
5. After the ceiling is installed, cut out the opening using the New Construction Bracket or the ceiling cutout template as a guide.
6. If you did not use a back-can, fish the wiring out of the ceiling through the opening.
7. Secure the wiring (or the back-can's wire pigtail) to the speaker's wire terminals.



8. Insert the speaker into the opening, then tighten the Phillips screws located on the front baffle to rotate and tighten the mounting doglegs to the ceiling. The mounting doglegs will move outward and tighten to secure the speaker to the drywall.

   Caution: If using a power screwdriver or drill, always use the **lowest** torque setting. Never over-tighten.





9. Attach the metal grille (Round or Square) to the speaker face by placing the grille over the edge of the frame. The grille self-centers onto the magnet attachment system incorporated in the frame.

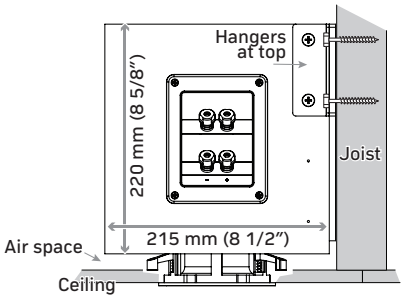
SUBWOOFER INSTALLATION

Note: This subwoofer is designed only for installations where you have full, unobstructed access to ceiling joists, such as in new construction or within unfinished attic space.

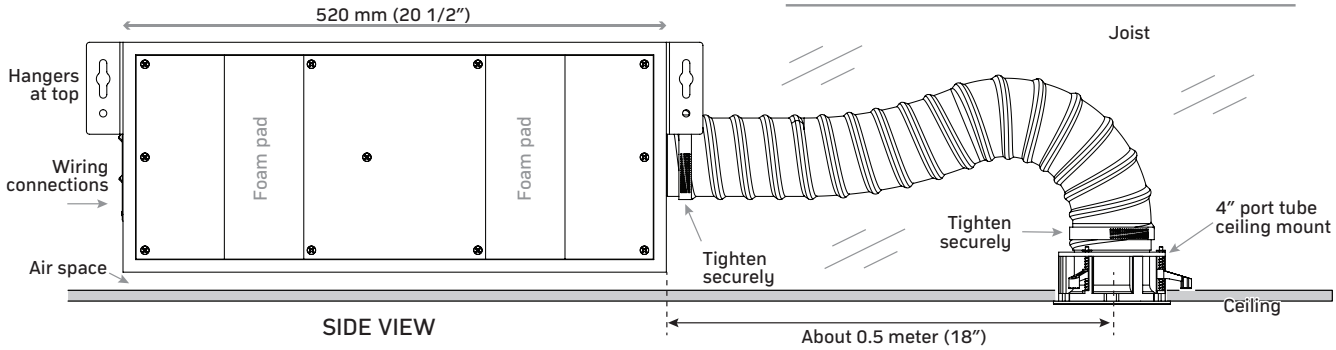
1. Choose a location for the subwoofer and port tube that is free of obstructions created by joists, HVAC ductwork, electrical wire runs, plumbing, or anything else that might not allow for the depth of the speaker or create interference or noise.

   Tip: It's best to first determine the location of the ceiling opening, and work backward from there to determine locations for the sub unit and port tube.

2. Make sure the sub unit's port tube will be able to reach the planned ceiling opening, and that both ends of the tube can be securely connected at both ends (about 0.5 meter, or 18 inches, from sub unit to opening).



END VIEW



SIDE VIEW

3. To make installation easier, install a New Construction Bracket (ES-IM4-BRKT-IC, not included) at the location where you want the ceiling port.
4. Use large lag screws or lag bolts to secure the sub unit to the side of the ceiling joist. To best isolate the sub enclosure, install the two foam pads onto the bottom of the sub enclosure between the enclosure and the joist, and maintain an air space between the side of the enclosure and the bottom edge of the joist.
5. Connect speaker wiring and jumper, if required, to the sub unit.
6. Securely attach the port tube to the sub unit by using the provided clamp. **Important**: Because the sub unit will be inaccessible after the ceiling is installed, *make absolutely sure* the port tube is securely attached to the sub.

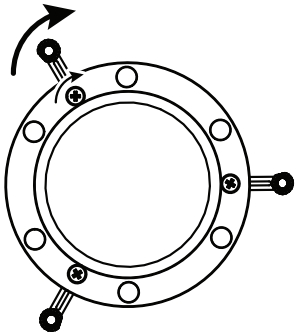
Tip: Because you will need to fish the tube through the ceiling opening after the ceiling is installed, it's a good idea to temporarily secure the end of the tube against the joist so it's within easy reach of the opening and out of the way of potential ceiling finishing tools.

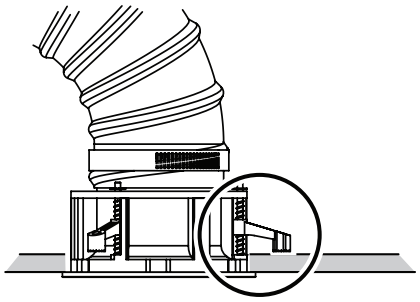
Tip: Keep the port tube as straight as possible, avoiding any unnecessary bends. If there is slack in the port tube, you can remove material to shorten it.

Tip: Before the ceiling is installed, confirm and test speaker wiring.

7. After the ceiling is installed, cut out the port opening using the New Construction Bracket or the ceiling cutout template as a guide.
8. Fish the sub port tube out of the ceiling through the port opening, then secure it to the port tube ceiling mount by using the provided clamp.
9. Insert the port tube ceiling mount into the ceiling opening, then tighten the Phillips screws located on the front baffle to rotate and tighten the mounting doglegs to the ceiling. The mounting doglegs will move outward and tighten to secure the speaker to the drywall.

   Caution: If using a power screwdriver or drill, always use the **lowest** torque setting. Never over-tighten.





10. Attach the metal grille (Round or Square) to the speaker face by placing the grille over the edge of the frame. The grille self-centers onto the magnet attachment system incorporated in the frame.

GRILLE PAINTING TIPS

Paint grilles only when removed from the speakers, and make sure the holes do not get clogged with paint.

SPECIFICATIONS

ES-IM4IC Satellite Speaker	
Tweeter	19 mm (3/4″) neo magnet
Woofer	89 mm (3 1/2″) carbon/aramid fiber cone with a corrugated rubber surround
Impedance	8 ohms nominal; 6 ohms minimum
Power handling	100W maximum
Frequency response	70 Hz to 20 kHz: ±3 dB
Sensitivity	85 dB SPL (2.8V/1 meter)
Shipping weight	3.1 lb (1.4 kg) each
High-Pass crossover frequency	125 Hz @12 dB per octave (High-Pass ON)
Grille	Shipped with round and square 124 mm (4 29/32″) micro-perforated steel grilles
Cutout diameter	102 mm (4 1/64″)
Dimensions (Diameter / Depth)	114 mm x 92 mm (4 1/2″ x 3 5/8″)

ES-IM6-BP-SUB Subwoofer	
Woofer	165 mm (6 1/2″) dual voice coil, fabric-coated, paper cone with a rubber surround
Power handling	100W maximum
Frequency response	40 Hz - 125 Hz - ±3 dB
Impedence	6 ohms nominal; 4 ohms minimum
Sensitivity	87 dB SPL (2.8V/1 meter)
Internal crossover frequency	125 Hz @12 dB per octave
Shipping weight	29 lb (13.54 kg) each
Grille	Shipped with round and square 124 mm (4 29/32″) micro-perforated steel grilles
Enclosure Dimensions (W x H x D)	215 mm x 220 mm x 520 mm (8 1/2″ x 8 5/8″ x 20 1/2″)
Port tube dimensions (Diameter / Length)	86 mm x 559 mm (3.39″ x 22″)
Ceiling port cutout diameter	102 mm (4 1/64″)

TROUBLESHOOTING

Episode® speakers are designed to function trouble-free. Most problems that occur are due to simple issues. If you have trouble, check the list of simple fixes below.

No sound

- Verify that there is audio coming from the source selected. Select another source, if necessary.
- Ensure that the audio source is turned on and connected properly.

WARRANTY

Find details of the product's Limited Warranty at **snapone.com/legal/** or request a paper copy from Customer Service at **866.424.4489**. Find other legal resources, such as regulatory notices and patent and safety information, at **snapone.com/legal/** .

CONTACTING TECHNICAL SUPPORT

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