



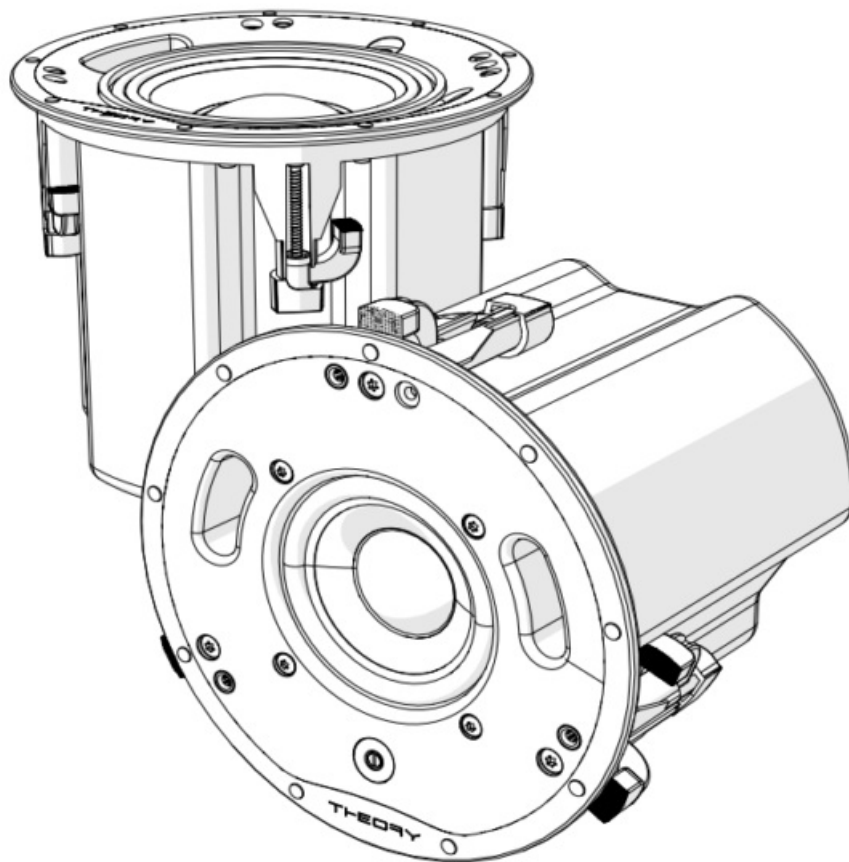
THEORY 210526 Ic In-Ceiling Loudspeakers Installation Guide

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THEORY

THEORY AUDIO DESIGN

ic In-Ceiling Loudspeakers



QUICK START INSTALLATION
GUIDE
Rev A 210525

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LIMITED WARRANTY

Disclaimer: THEORY AUDIO DESIGN, LLC is not liable for any damage to loudspeakers or any other equipment that is caused by negligence or improper use or installation of this product, including damage caused by connecting Theory loudspeakers and subwoofers to third-party amplifiers.

THEORY AUDIO DESIGN, LLC 5-Year Limited Loudspeaker and Subwoofer Warranty

THEORY AUDIO DESIGN, LLC guarantees its loudspeaker and subwoofers products to be free from defective materials and/or workmanship for a period of five (5) years from the date of sale and will replace defective parts and/or repair malfunctioning products under this warranty when the defect occurs under normal installation and use – provided that the unit is returned to our factory or one of our authorized service centers via prepaid transportation with a copy of proof of purchase (sales receipt). This warranty provides that the examination of the return must indicate, in our judgment, a manufacturing defect. This warranty does not extend to any product which has been subject to misuse, neglect, accident, improper installation or where the date code has been removed or defaced. THEORY shall not be liable for incidental and/or consequential damages. The warranty gives you specific legal rights. This limited warranty is not transferable. Customers may have rights that vary from state to state. In the event that this product was manufactured for export and sale outside of the United States or its territories, then this limited warranty does not apply. Removal of the serial number on this product, or purchase of this product from an unauthorized dealer will void this limited warranty.

EXCLUSIONS

To the extent permitted by law, the warranty set forth above is in lieu of, and exclusive of, all other warranties, express or implied, and is the sole and exclusive warranty provided by Theory Audio Design, LLC. All other express and implied warranties, including the implied warranties of merchantability, implied warranty of fitness for use and implied warranty of fitness for a particular purpose are specifically excluded. Theory Audio Design, LLC shall not be liable for consequential, incidental, economic, property, bodily injury, or personal injury damages arising from the product, any breach of this warranty or otherwise. This warranty statement gives you specific legal rights, and you may have other rights which vary from state to state. Some states do not allow the exclusion of implied warranties or limitations of remedies, so the above exclusions and limitations may not apply. If your state does not allow the disclaimer of implied warranties, the duration of such implied warranties is limited to a period of THEORY'S express warranty.

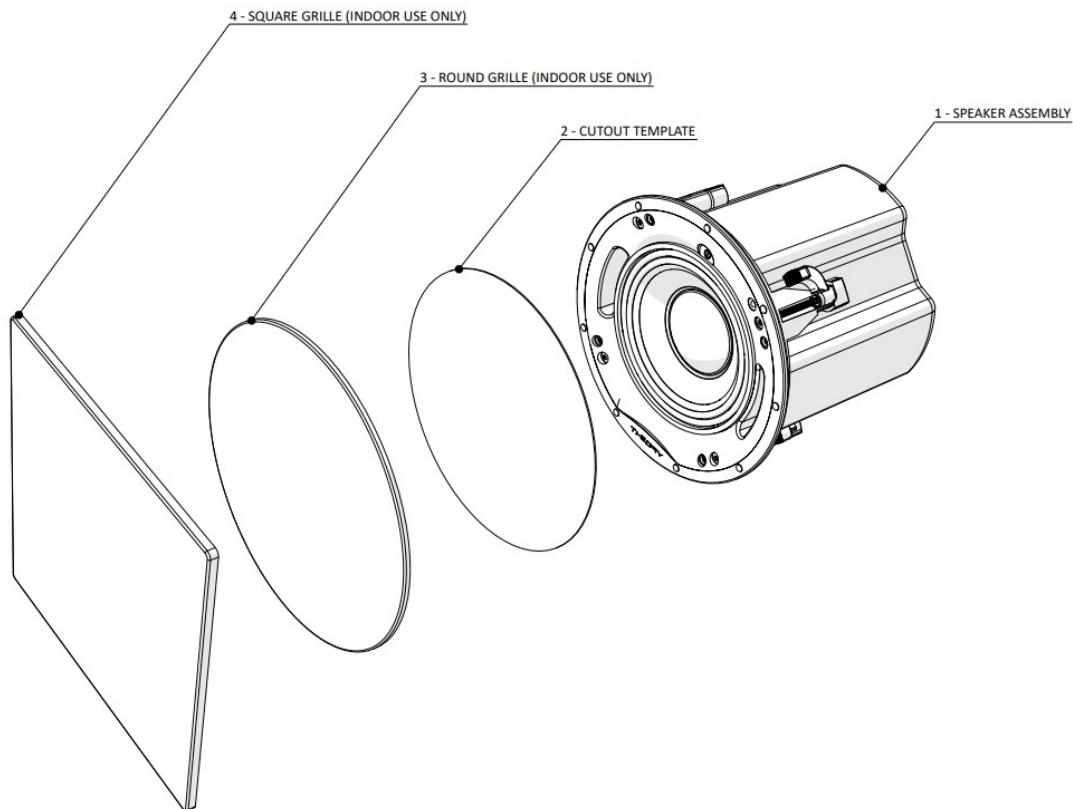
Periodically this warranty is updated. To obtain the most recent version of THEORY'S warranty statement, please call +1-949-245-0505.

IMPORTANT SAFETY INSTRUCTIONS

1. Read all instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Clean only with a dry cloth.

6. Install in accordance with the manufacturer's instructions.
7. Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus that produce heat.
8. Use only attachments/accessories specified by THEORY AUDIO DESIGN, LLC.
9. Use only with hardware, brackets stands, and components sold with the apparatus or supplied by THEORY AUDIO DESIGN, LLC.
10. Mount only to solid architectural walls and ceilings.
11. USE A SAFETY CABLE WHEN INSTALLING OVERHEAD.
12. Refer all servicing to qualified service personnel. Servicing is required when the apparatus is damaged in any way.
13. Connect to Theory or Pro Audio Technology Amplified Loudspeaker Controllers ONLY. Do not connect to third-party amplifiers.
Doing so will void the product warranty and potentially damage the loudspeaker.

PARTS LEGEND

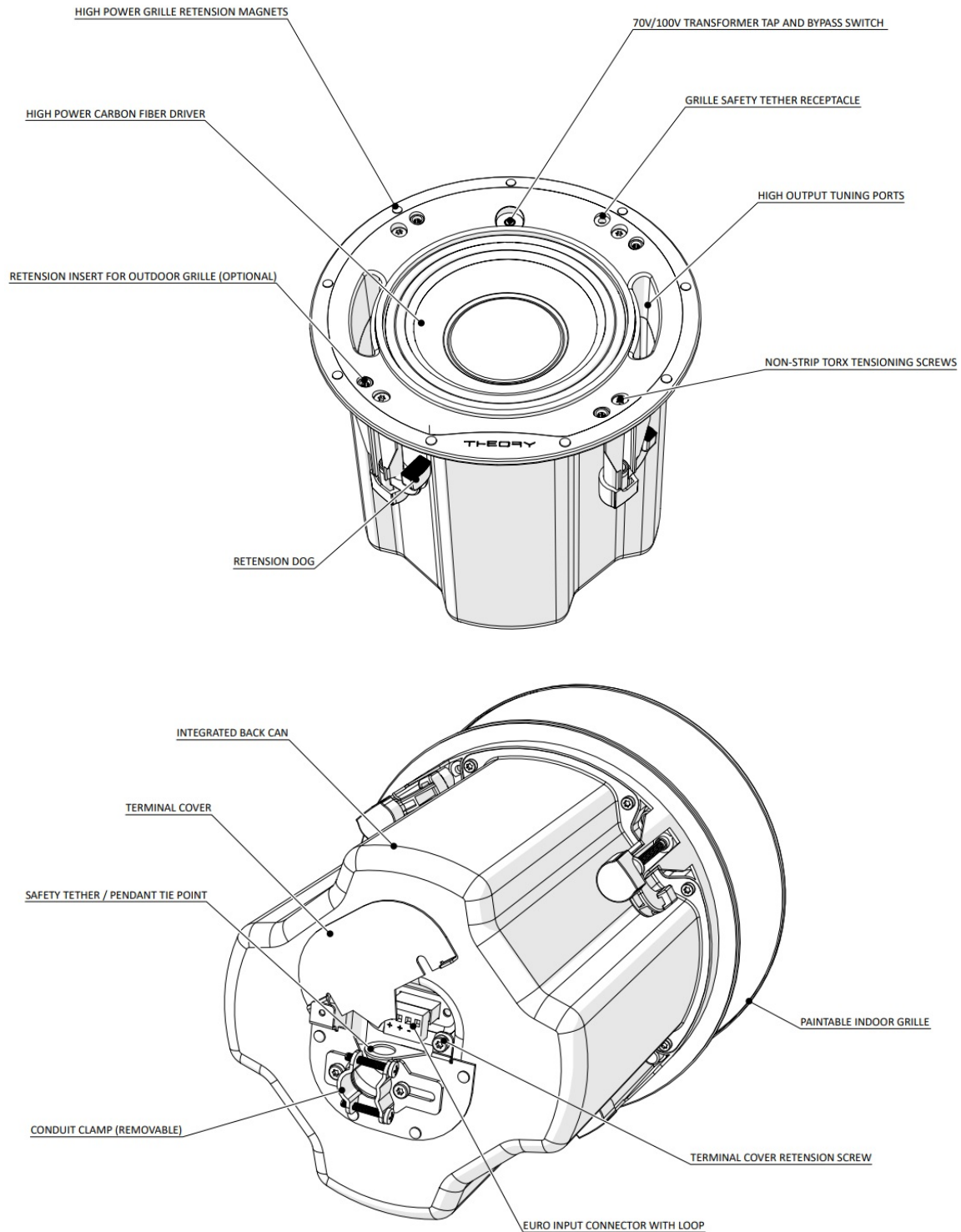


PARTS LIST – ic MODELS

1. SPEAKER ASSEMBLY – QTY. 1
2. CUTOUT TEMPLATE – QTY. 1
3. INDOOR ROUND GRILLE – QTY. 1
4. INDOOR SQUARE GRILLE – QTY. 2

In this guide, ceiling speaker model ic6 is shown. Your model may be different, however, the product features and installation steps are the same. For outdoor installations, a special-purpose all-weather grille is required. (Sold separately). Contact your authorized Theory dealer to purchase before installing the loudspeaker(s).

PRODUCT FEATURES



IN-CEILING INSTALLATION

OPERATING MODES – SAFETY CONSIDERATIONS – INDOOR/OUTDOOR INSTALLATIONS

Your Theory ic loudspeaker can be used in LoZ (16 ohms) or HiZ (transformer) operating modes. Make sure you know the desired operation for your system prior to installing the loudspeakers as this will determine the wiring scheme required.

Your Theory in-ceiling loudspeaker system may be installed into ordinary architectural walls and ceilings. If installed in the ceiling, a safety cable must be used to tether the loudspeaker to rigid structural elements such as an architectural stud or joist. (See Step 4)

If installed outdoors, a special-purpose all-weather grille is required. (Sold separately). Do not use the indoor grilles (included) in outdoor installations.

Your Theory in-ceiling loudspeaker requires extensive signal processing and therefore must be driven by Theory

Amplified Loudspeaker Controllers only. Theory loudspeakers and Loudspeaker Controllers work together as a system.

DO NOT CONNECT YOUR THEORY LOUDSPEAKER TO THIRD-PARTY AMPLIFIERS AS DOING SO WILL VOID THE LOUDSPEAKER WARRANTY.

1. CEILING CUTOUT

Using the supplied cutout template, mark and cut a hole in the drywall at the desired loudspeaker location.

Figures 1a. and 1b.

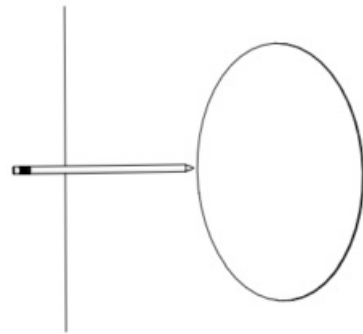


FIGURE 1a. Trace around the outside of the cutout template with a pencil.

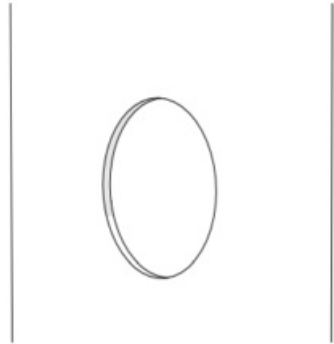


FIGURE 1b. Cut drywall on pencil lines.

2. CONNECT WIRES TO EURO PLUGS*

Loosen the terminal cover retention screw and rotate the cover out of the way to expose the input Euro connector. For LoZ or 16-ohm operation, connect a single “home run” two-conductor speaker wire from the ic loudspeaker to the Theory Loudspeaker Controller output. Up to FOUR ic ceiling loudspeakers configured for 16-ohm operation may be wired in parallel to a single Loudspeaker Controller channel. Figure 2a.

For transformer “70V” or “70V/100V” operation, many ic loudspeakers may be connected to a qualified Loudspeaker Controller output channel by connecting the ic speakers in parallel using the connector loop outputs. Figure 2b.

*If using the conduit clamp, feed wires through the clamp first before connecting to plug.

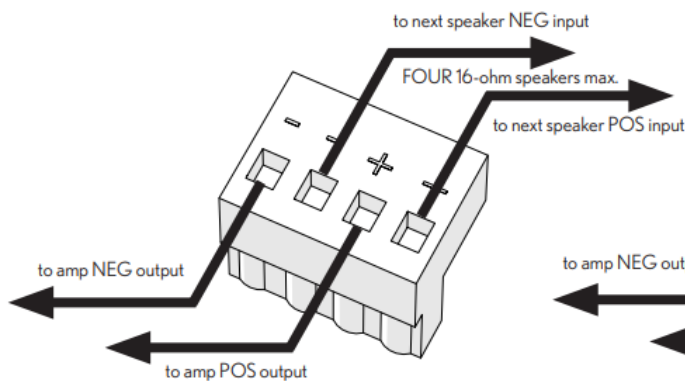


FIGURE 2a. 16-ohm Operation. Connect Loudspeaker Controller negative output terminal to Euro block negative input. Positive Controller output to Euroblock positive input.

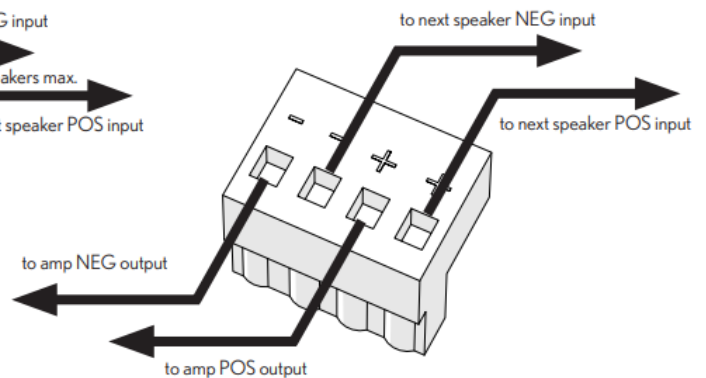
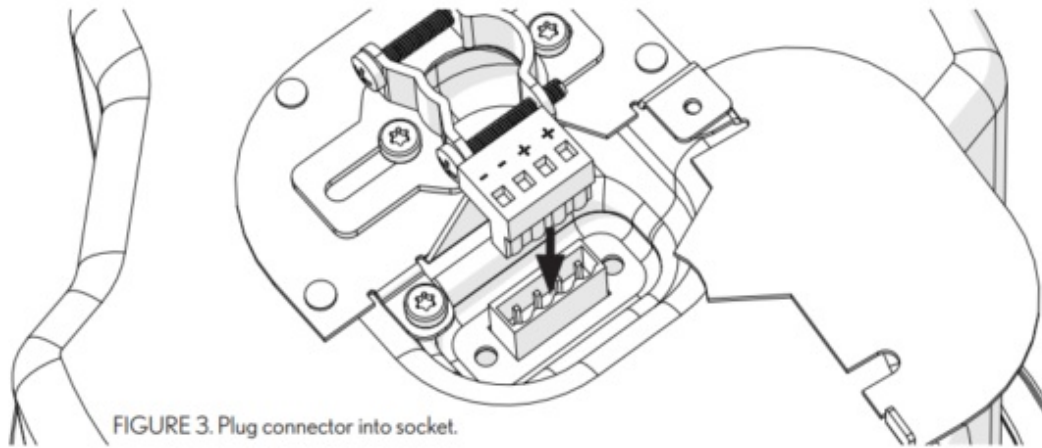


FIGURE 2b. 70V/100V Operation. Use connector loop outputs to connect to next loudspeaker.

3. CONNECT ic LOUDSPEAKER(S)

Plug the male Euroblock connector into the female connector found underneath the terminal cover of the loudspeaker back can. Figure 3.



4. ATTACH SAFETY CABLE

BEFORE INSTALLING THE SPEAKER, ATTACH A SAFETY TETHER (NOT INCLUDED) TO A RIGID ARCHITECTURAL MEMBER AND TO THE SAFETY TIE POINT ON THE BACK OF THE BACK CAN (SEE PAGE 2).

Figure 4a.

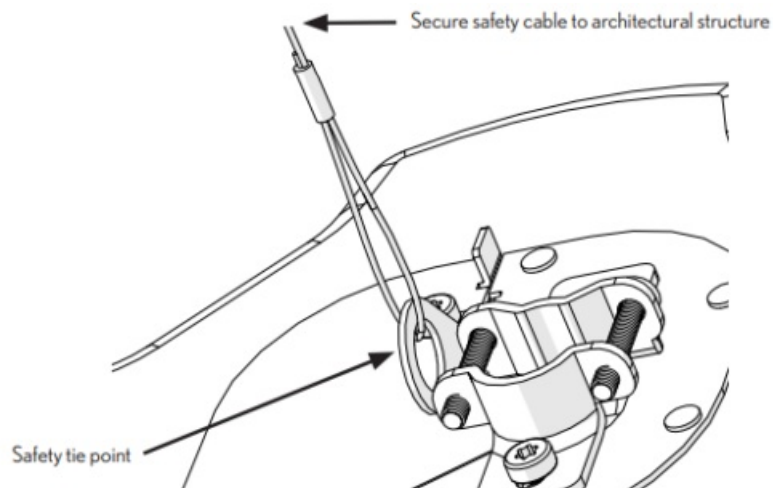


FIGURE 4a. Install a safety tether (not included) to safety tie point as shown.

5. INSERT SPEAKER

Make sure clamping dogs are fully tucked within the cutout boundary. Figure 5a. Insert the speaker into the cutout and hold tight against the drywall.

Figure 5b.

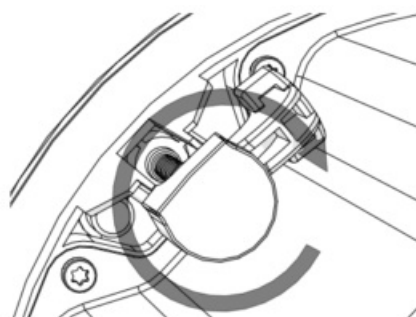


FIGURE 5a. Retract all clamping dogs to clear the cutout boundary.

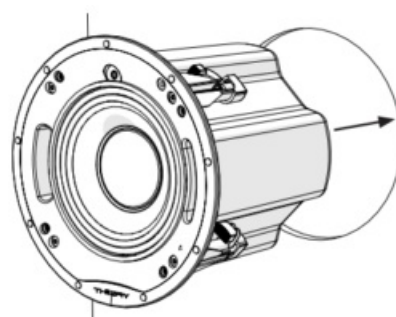


FIGURE 5b. Insert speaker into cutout and hold tight against drywall.

6. TIGHTEN DOGS

Using supplied Torx driver bit, tighten all clamping dogs until resistance is noticed on the screws and the loudspeaker baffle flange is held tightly against the wall surface. This indicates the dogs have engaged with the backside of the drywall and that the speaker is clamped successfully.

Figure 6.

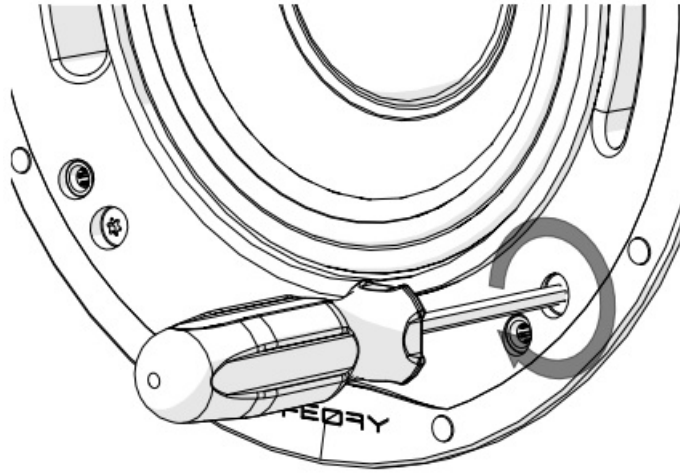


FIGURE 6. Tighten all clamping dogs to securely clamp speaker to drywall.

7. SET 70V / 16-OHM OPERATION SWITCH

For most residential installations, 16-ohm operation is preferred. For 16-ohm operation, using a flat-head screwdriver, rotate the switch to align the screw slot with the 16-ohms indicator. For 70V/100V operation, rotate the switch to align the screw slot with the desired power level to be supplied to the loudspeaker when the Loudspeaker Controller is set to maximum output. You may need to wait to set this switch to control the speaker volume once all the speakers are installed.

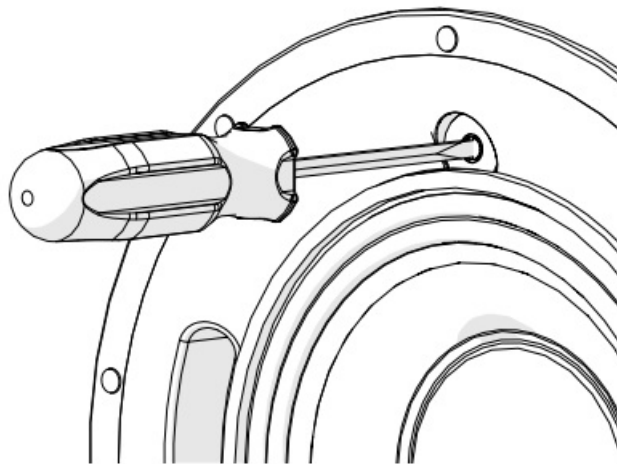


FIGURE 7. Set transformer tap switch to select operating mode.

8. INSTALL PERFORATED GRILLE

If installing the speaker overhead, insert the grille safety tether rivet into the speaker frame. Figure 8a. Install the paintable perforated metal grille on the front of the speaker. High-strength magnets will hold it in place. Figure 8b. A round or square grille may be used depending on preference. (Round grille shown)

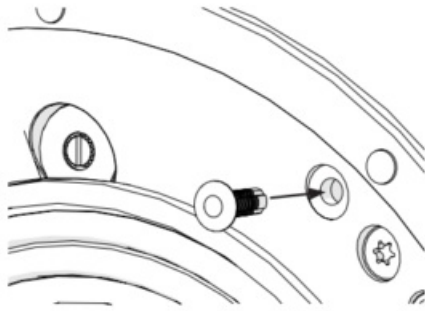


FIGURE 8a. Insert grille safety tether rivet into speaker frame as shown. Grille not shown for clarity.

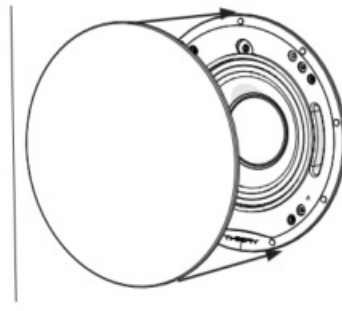


FIGURE 8b. Align indoor grille over the speaker baffle. Powerful magnets will hold it in place.

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Theory Audio Design routinely engages in programs to improve, modify and revise its products without notice or obligation. As such, your product may differ slightly from what is shown in this guide.

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Documents / Resources

<p>ic In-Ceiling Loudspeakers</p>  <p>QUICK INSTALLATION GUIDE Rev. 1/2022</p> <p>THEORY AUDIO DESIGN</p>	<p>THEORY 210526 ic In-Ceiling Loudspeakers [pdf] Installation Guide</p> <p>210526 ic In-Ceiling Loudspeakers, 210526, ic In-Ceiling Loudspeakers</p>
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References

-  [Theory Audio Design](#)