

Model: THOR IW—SUB10

In-Wall 10" Subwoofer with 10" SLAPS

User Manual

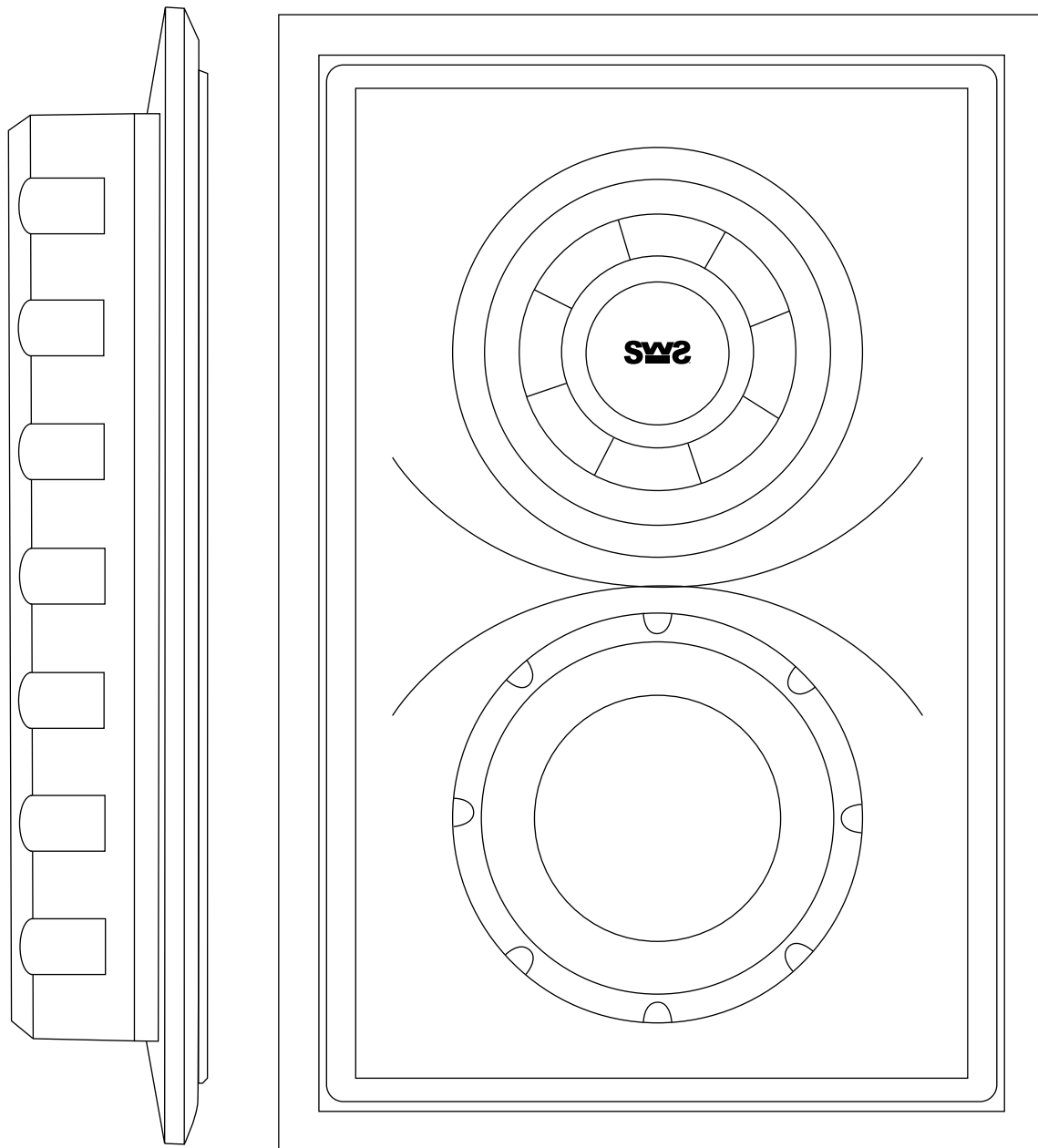


Table of Contents

Introduction.....	3
Safety Instructions.....	3
Unpacking System Components.....	4
System Installation Considerations.....	4
Connection Tips.....	4
THOR Features.....	4
What Your THOR Comes With.....	4
Installation Preparation.....	5
Unpacking Your THOR.....	5
Taking Off THOR's Grille.....	6
Connecting Your THOR.....	6
Installing Your THOR.....	8
Assembling the Custom Grille.....	9
Specifications.....	11
5 Year Limited Warranty Guidelines.....	12



Earthquake Sound Corporation
2727 McCone Avenue
Hayward, CA 94545
Tel: 510-732-1000
Fax: 510-732-1095

Customer Support
tech@earthquakesound.com
Tel: 800-576-7944
Fax: 510-732-1095

© 2010 Earthquake Sound Corporation. All rights reserved.
This document should not be construed as a commitment on the part of Earthquake Sound Corporation. The information is subject to change without notice. Earthquake Sound Corporation assumes no responsibility for errors that may appear within this document.

Introduction

Simply put, the THOR is the only in-wall subwoofer that sufficiently provides bass to your home theater system. The THOR remains stable and maintains next to zero resonance because the user can bolt the THOR directly to the studs from the front of the unit. This locks the THOR into the structure of the home. Earthquake engineers also added four dog ear fasteners for added sheet rock support. There are two inches peak-to-peak out of a standard 16" stud gap.

Arguably, the IW-SUB10's best feature is the SWS subwoofer. The SWS driver has an amazing 10" diameter but a mounting depth of only 3 3/4". In addition, the impressive excursion is almost the same as the mounting depth. While other in-wall subs struggle to maintain a good 30Hz, THOR will go all the way down to 19Hz and counting.

By including a passive radiator in the design, Earthquake

engineers maximized the small amount of given air space. This style of enclosure also helps deliver a very clean and deep impact bass. THOR's back-box is constructed with extra thick high-temperature PVC and is reinforced from front to back all the way through the cabinet. Three methods of reinforcement designs ensure the THOR's prolonged strength, durability, and maximum dampening capability. The first is the front to back bridges that surround the drivers. At these points the cabinet is most vulnerable to flexing and warping over time. Not the THOR. THOR's bridges are locked using the mounting screws and can literally be stood on top of by a 200 pound man. Fiber fill was also used for added resonance protection. And last but not least, crisscrossed ribs across the bottom of the enclosure make this in-wall enclosure the strongest and most durable. This type of internal bracing and attention to detail is only used in the IW-SUB10 and only at Earthquake.

Safety Instructions

Safety First

This documentation contains general safety, installation, and operating instructions for the THOR In-Wall SUB10. It is important to read this user's manual before attempting to use this product. Pay particular attention to the safety instructions.

Symbols Explained:



Appears on the component to indicate the presence of uninsulated, dangerous voltage inside the enclosure – voltage that may be sufficient to constitute a risk of shock.

CAUTION

Calls attention to a procedure, practice, condition or the like that, if not correctly performed or adhered to, could result in injury or death.

WARNING

Calls attention to a procedure, practice, condition or the like that, if not correctly performed or adhered to, could result in damage to or destruction of part or all of the product.

Note:

Calls attention to information that is essential to highlight.

- 1) Read these instructions in their entirety.
- 2) Store this manual and packaging in a safe place.
- 3) Heed all warnings.
- 4) Follow instructions (do not take shortcuts).
- 5) Do not use this apparatus near water.
- 6) Clean only with a dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatuses that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. The grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments and accessories specified by the manufacturer.

Safety Instructions (continued)

- 12) Use only a compatible rack or cart for the final resting position.
- 13) Unplug this apparatus during lightning storm or when unused for a long period of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in a way such as: power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15) To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

Unpacking System Components

- Keep the original carton and packing materials for future shipment or storage.
- Check for any visual signs of damage. If you encounter any concealed damage, consult your Earthquake Sound dealer before proceeding with unit installation.
- Retain the sales receipt as it establishes the duration of the limited warranty and provides information for insurance purposes.

System Installation Considerations

There are several factors to consider before installing Earthquake Sound's THOR in-wall SUB-10.

- What are the intended listening zones?
- What system options and accessories might be required for features such as local sources, etc.?
- From where in each zone will the listener prefer to control the system? Where will the remote gains be located? Where will the speakers be located?
- Where will the source equipment be located?

Connection Tips

- Keep all power cords away from all signal cables to prevent humming from induced noise.
- Choose reliable signal cable cords (Earthquake Sound also specializes in high performance RCA cables and patches).
- All speaker wires that are ran through the walls should be twisted type to reduce potential hum noise pick-up.
- Label both ends of all wires with the corresponding room location.
- It is best to use a grounded electrical outlet to power the amplifier. Lack of input ground reference could be unsafe. Consult with your electrical contractor about proper grounding.

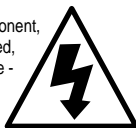
THOR Features

- SWS (Shallow Woofer System)
- 300-watt driver
- 2 inch Excursion
- SLAPS (Symmetrically Loaded Audio Passive System)
- Extra thick high temperature PVC enclosure
- Back bridges that surround drivers
- Reinforced back box
- Crisscrossed ribs across the bottom of enclosure
- Dog ear clamps for added stability
- Bolts directly to 2x4 studs so no need to hassle with brackets
- Spring loaded speaker terminals
- 3 grille options for ultimate customization

Your THOR Comes With:

- 1 In-Wall SUB10 (THOR)
- 1 metal mesh grille
- 2 grille frames for custom fabric to match your décor
- 16 mounting screws
- 1 Allen wrench to install the logo screw
- 1 SWS logo

This triangle, which appears on your component, alerts you to the presence of uninsulated, dangerous voltage inside the enclosure - voltage that may be sufficient to constitute a risk of shock.



This triangle, which appears on your component, alerts you to important operating and maintenance instructions in this accompanying literature.



Installation Preparation

- Be sure the THOR is installed by an Earthquake authorized installer
- Do not attempt to perform the following steps without a professional (Any product installed by an unauthorized installer is not covered by the Limited 5 Year Warranty)
- Tools required for installation:
 - 1) Allen wrench (This tool is provided)
 - 2) Drill or power screw driver
 - 3) Rubber Mallet
 - 4) Razor blade or box cutter
 - 5) Stud finder
 - 6) Pencil
 - 7) Sheet rock saw
 - 8) Measuring device



Unpacking Your THOR

STEP#1



This is your THOR in-wall packaged the way that you will receive it. We will start from here, to begin your journey into the world of true in-wall subwoofer technology.

STEP#2



Open your carton from the top as shown and either pull out from the top or carefully flip the carton upside down and let it slide out.

STEP#3



After you have successfully unloaded the THOR, be sure to place all contents of carton aside for later use.

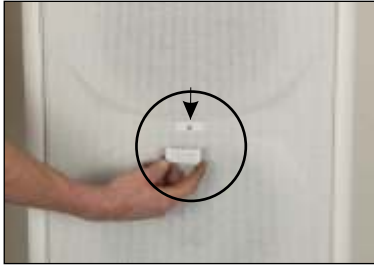
STEP#4



Remove the foam, plastic protection and two custom grille rings from the back to begin installation procedures.

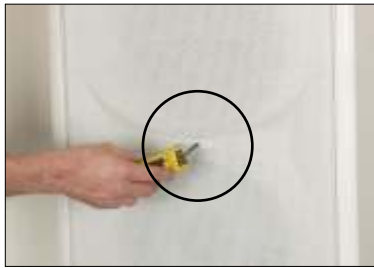
Taking Off THOR's Grille

STEP#1



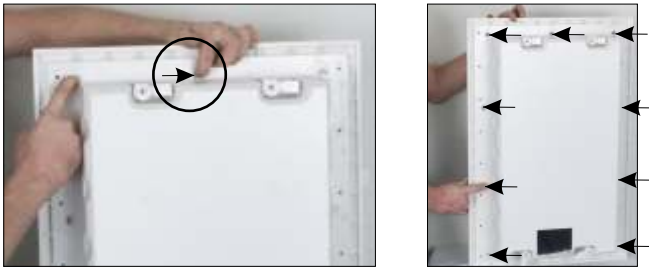
You are now ready to prepare the sub for installation. Carefully remove the logo from the grille to expose the fastener hex nut.

STEP#2



Using the provided allen wrench, remove the fastener nut. Make sure you perform these steps before trying to remove the grille (you will damage the grille otherwise).

STEP#3



Now to remove the grille you simply use your fingers to push out the prongs from the back side of the unit. Push out all prongs and the grille will simply fall out.

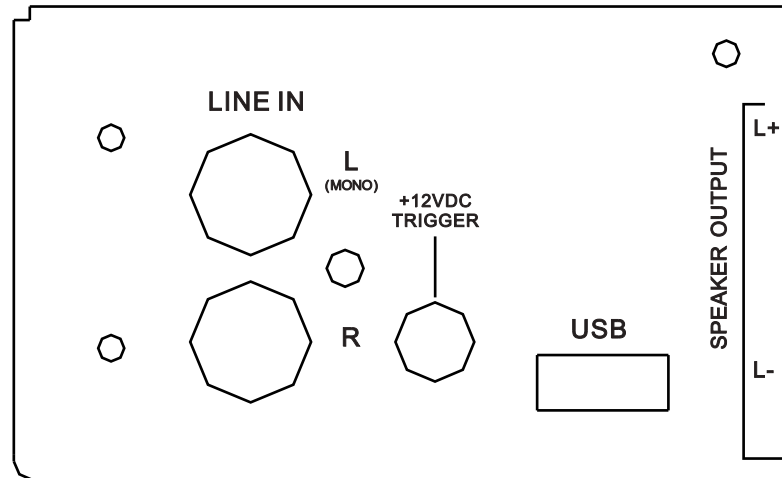
STEP#4



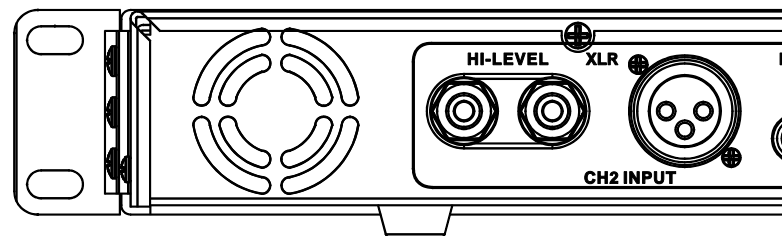
You have now successfully removed the grille and are ready to begin preparing the wall for installation.

Connecting Your THOR

Earthquake Sound's XJ-300FR amplifier is recommended for the use of one THOR. The XJ-300FR amplifier is a 300-watt amplifier and can be used as a mono block, a 2 channel amplifier, or bridged for a 2.1 channel amplifier.

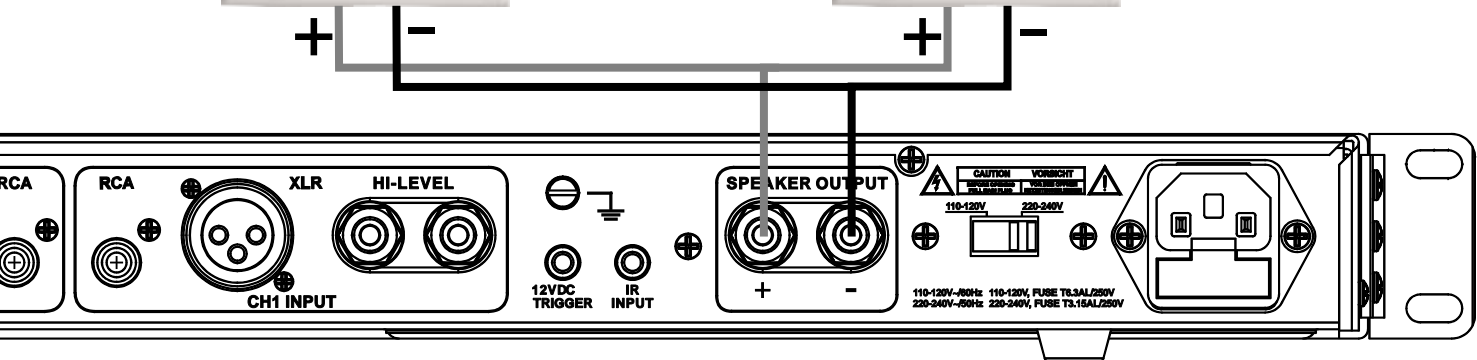
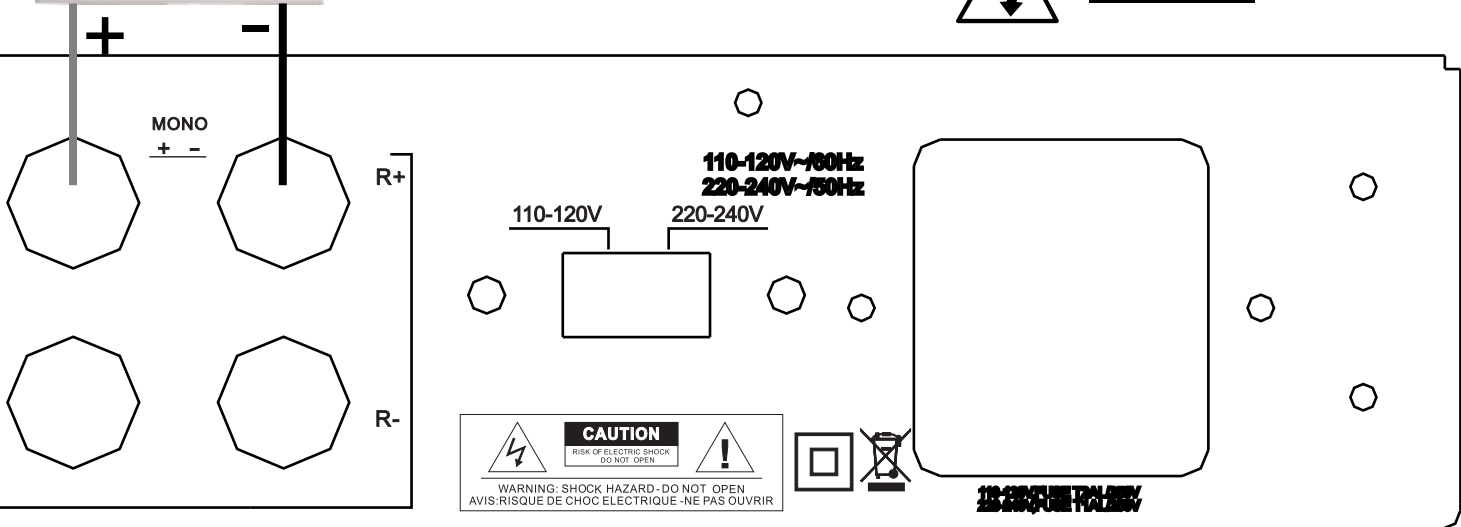


Earthquake Sound's XJ-600R amplifier is recommended for the use of two THORs. The XJ-600R is a 600-watt, 1 channel, rack mountable amplifier. In this instance, the two THORs are parallely wired.



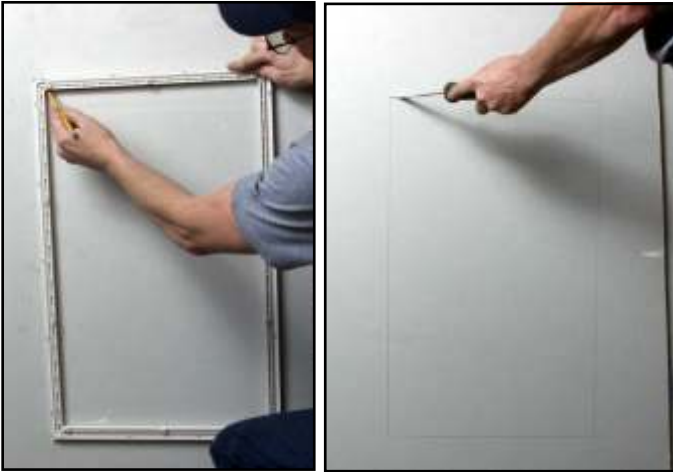


WARNING CAUTION



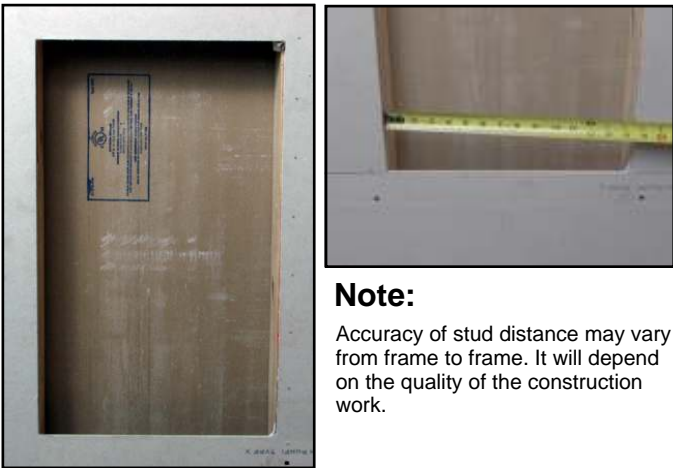
Installing Your THOR

STEP#1



To begin you will need to locate the empty grille frame. Use your stud finder to locate the studs (if you're not retrofitting). Using the empty frame, trace your cut line with a pencil. Once you are satisfied with your cut line, begin your cut using the sheet rock saw.

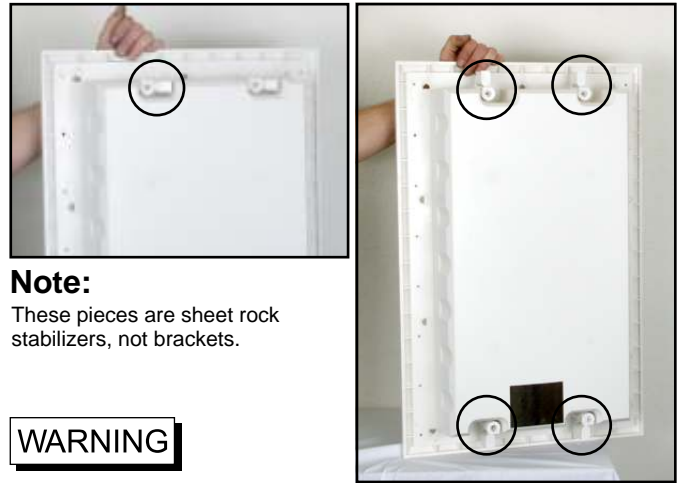
STEP#2



Note:
Accuracy of stud distance may vary from frame to frame. It will depend on the quality of the construction work.

When the cutout is complete, it should look similar to the image. Most of the work performed here is installer common sense, please use it.

STEP#3



Note:
These pieces are sheet rock stabilizers, not brackets.

WARNING

In the first image furthest to the left you'll notice the fastener in it's neutral position— this is how it is packed. You will need to turn all fasteners outward so that they can be clamped to the sheet rock. You will tighten them from the front once you have fastened the THOR to the studs.

STEP#4



Once you have fed all wiring and connected it, slip the THOR in the wall making sure that the sheet rock stabilizers are in the correct position.

Begin placing screws inside holes directly into the stud from the front. Once you have inserted all screws snugly and securely, tighten the fasteners.

Assembling the Custom Grille

STEP#5



This procedure is extremely important: Tighten the dogears by fastening the screws which are located at the top of the active driver and the bottom of the passive driver. If you forget to do this the sheet rock will not be secured and the fasteners will be loose and will rattle.

STEP#6



Congratulations! You have successfully installed the world's most effective, efficient and down right loud in-wall subwoofer ever made. The grille that you use is totally up to you and can be matched to fit any decor. (See following pages for custom cloth grille instructions).

STEP#1



Cut your desired cloth two inches bigger than the frame on all sides. We have provided cloth that can be used, but feel free to use different colors or textures.



Make sure that you have two inches of excess cloth around all sides of the frame.

STEP#2



Cut your desired cloth, two inches bigger than the frame on all sides. Remember that this is a custom grille so whatever color or texture of cloth you choose, it will work for your application.

STEP#3



Wrap cloth over prongs, make a small incision on cloth over prong and push prong through cloth. Complete this process with every prong on the frame.

Assembling the Custom Grille (continued)

STEP#4



Wrap cloth around frame and put into place with provided security ring.

STEP#5



Once you have the cloth in place with security ring push the ring enough to keep in place, though the groove with cloth underneath.

STEP#6



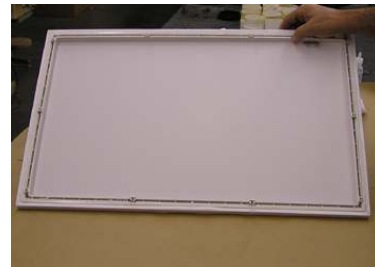
Now that you have pressed the security ring in by hand, use your rubber mallet to finish securing it completely in the gap.

STEP#7



With your security ring in place you can begin cutting excess cloth from the inner ring. Use extreme caution if you choose to use a straight razor instead of a box cutter or scissors.

STEP#8



This is what the inside of your grille should look like. Pouring a quick drying glue over the ring and in the space around where the cloth is will add more support and provide a hard shell.

STEP#9



This is what your finished product should look like on and off of the sub.

STEP#10



When you have completed the project you simply push the grille into the front of the in-wall subwoofer gently (use the rubber mallet if needed).

Specifications

Woofers:

10" (254mm) with 2½" excursion patented design
10" SLAPS Passive Radiator

Power Rating:

50-800 Watts

RMS Power Rating:

400 Watts

Frequency Response:

20Hz-160Hz

Sensitivity:

89dB

Impedance:

4Ω

Dimensions (HxWxD):

28" x 18 5/8" x 3 3/4" (711mm x 473mm x 95mm)

Cut out dimension (HxW):

24" x 13 3/4" (610mm x 349mm)

Mounting depth:

3 3/4" (95mm)

Finish:

white/paintable, custom grille options included

5 Year Limited Warranty Information

Earthquake warrants the original purchaser that all Factory Sealed New Audio Products be free from defects in material workmanship, under normal and proper use, for a period of five (5) years from the date of purchase (as shown on the original sales receipt with the serial number affixed/written on it).

The five (5) years warranty period is valid only if the product is properly installed by an Earthquake authorized party, and the warranty registration card is properly filled out and sent to Earthquake Sound Corporation. If the product is installed by a non-authorized party, a ninety (90) days warranty period applies.

(A) Five (5) years limited warranty plan coverage guidelines:

- First year: Earthquake pays for labor, parts, and ground freight (only in the U.S. mainland, not including Alaska and Hawaii) back to the customer.
- Second year: Earthquake pays for labor and parts only, customer must pay freight both ways.
- Third, fourth, and fifth year: Earthquake pays for labor only. Customer must pay for parts and freight both ways.

(B) Warning:

Products (sent for repair) that are tested by Earthquake technicians and deemed to have no problem, will not be covered by the five (5) years limited warranty. Customer will be charged a minimum of one (1) hour of labor (ongoing rates) plus shipping back to the customer.

(C) Earthquake agrees to repair or replace, at our option, all such defective products/parts subject to the following provisions:

- Defective products/parts have not been altered or repaired by other an Earthquake factory approved technician.
- Products/parts are not subjected to negligence, misuse, improper use, aor accident, damaged by improper line voltage, used with incompatible products, or have its serial number or any part of it altered, defaced, removed, or have been used in anyway that is contrary to Earthquake's written instructions.

(D) Warranty Limitations:

Earthquake warranty does not cover products that have been modified and/or abused, including but not limited to the following:

- Damages to unit cover and finish due to misuse, abuse, or improper use of cleaning materials/methods.
- Bent casing, damaged finish on casing due to abuse, misuse, or improper frame or broken connections.
- Fading, deterioration of components and finish due to improper exposure to elements.
- Burnt tracers of PCB.
- Product/part damaged due to poor packaging or abusive shipping conditions.
- Subsequent damage to other products.

A warranty claim will not be valid if the warranty registration card is not properly filled and returned to Earthquake with a copy of the sales invoice.

(E) Service Request:

To receive product(s) service, contact Earthquake Sound's service department at (510) 732-1000 and request an RMA number (Return Material Authorization), item(s) shipped without a valid RMA number will be refused. Make sure you provide us with your complete and correct shipping address, a valid phone number, and a brief description of the problem you are experiencing with the product. In most cases, our technicians might be able to resolve the problem over the phone, thus eliminating the need to ship the product.

(F) Shipping Instructions:

Product(s) must be packaged in its original protective box(es) to minimize transport damage. Shipper claims regarding item(s) damaged in transit must be presented to the carrier. Earthquake Sound Corporation reserves the right to refuse improperly packed product(s). A copy of original sales receipt must accompany product(s) returned for service. We encourage you to include a written description for the problem inside the package. Ship to:

Earthquake Sound Corp.
2727 McCone Avenue
Hayward, CA 94545 USA

You are responsible for the cost of shipping the product to Earthquake Sound Corporation.

(G) Disputes Resolution:

All disputes, between clients and Earthquake Sound Corporation, resulting from the five (5) years limited warranty policy must be resolved according to the laws and regulations of the county of Alameda, California.



Earthquake Sound reserves the right to amend details of the specifications without notice.

© Copyright Earthquake Sound Corporation
Earthquake Sound Corporation

2727 McCone Avenue, Hayward CA, 94545

Phone: (510) 732-1000 U.S. Toll Free: (800) 579-7944 Fax: (510) 732-1095