



IWSDUAL8 SUBWOOFER INSTALL GUIDE

Preparation:

Tools For Installation

- Pencil
- Drill
- Tape Measure
- Wire Cutter
- Phillips Screwdriver
- Utility Knife
- Safety Eye Wear
- Gloves
- Sandpaper

Considerations

- Where is the best place to install the speakers?
- Where do the speakers sound the best?

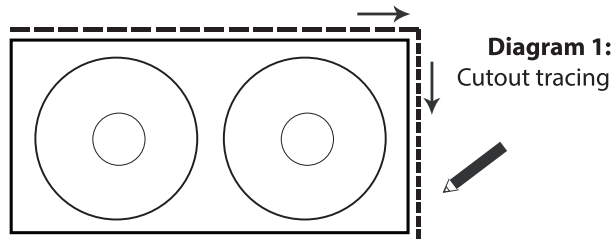
Speaker Wire Guide

- 18AWG minimum - for distances up to 10 ft
- 16AWG - from 10 to 50 ft
- 14AWG - from 50 to 100 ft

- Separate the speakers 6 - 10 feet apart.
- If you intend to paint the grilles, do so before installation.

STEP 1

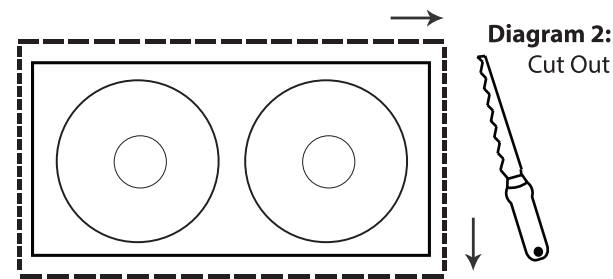
Trace along the inclusive template. Cut along the traced line using a drywall saw or rotary drill. A simple, inexpensive drywall saw (about \$10 at your local hardware store) is the best choice for beginners. **Caution: This is the most important part of the entire installation.** If you are not certain whether any obstructions exist behind the desired mounting area, you should start by cutting a small hole in the center of your penciled mounting hole with a drywall saw. Use a piece of sandpaper to sand down the cut out edge for a smoother contour. (See Diagram 1 and Diagram 2)



STEP 2

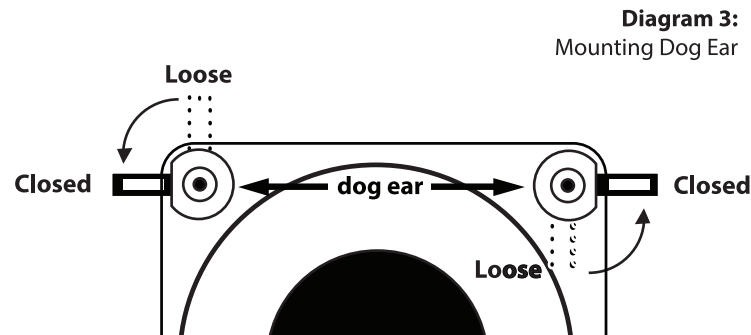
Run the cable into the cut out location while leaving an extra two feet to make the connection to the speaker easier. Strip back approximately 1/2" of the speaker cable insulation and twist the copper wires tightly for easy insertion.

On the back of the speaker, press down on the gold-plated compression terminal to reveal the "eye" and insert the speaker cable through the eye for secure connection. Release the compression terminal to lock each cable securely.



STEP 3

Tighten the dog-ear brackets by simply turning the screws on the speaker's front baffle. Use a Phillips head screwdriver to turn the screws slowly clockwise. The quick-turn mounting system and frame will "sandwich" or clamp around the wall to hold the speaker securely in place. (See Diagram 3)



STEP 4

Tighten the four mounting screws with the same amount of force until the speaker is aligned and held securely to the wall surface. Caution: do not over tighten! (See Diagram 4)

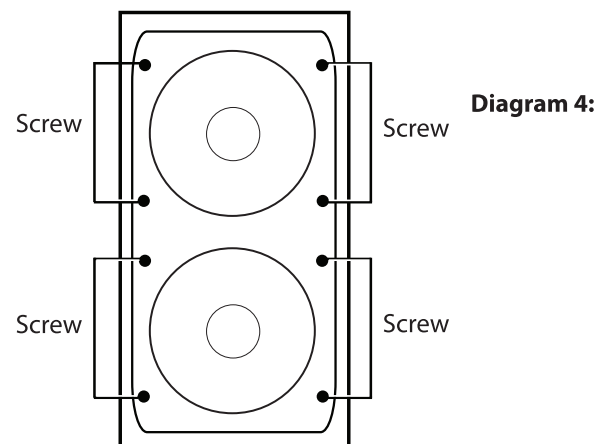


Diagram 3:
Mounting Dog Ear

Diagram 4:

Next, individually turn each of the screws (**Diagram 5**) that operate the dogears counter clockwise a few turns until you feel the dogear is loose from the resting position. Then turn the screw clockwise until you feel the dogear makes contact with the wall surface.

TIP: Blown-in insulation can sometimes work its way into the moving components of the speaker and negatively impacting performance. It is best to replace about a one square foot section directly behind the speaker with rolled-in (bat) insulation. (See Diagram 5)

Diagram 5:

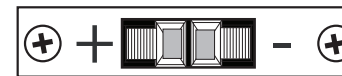
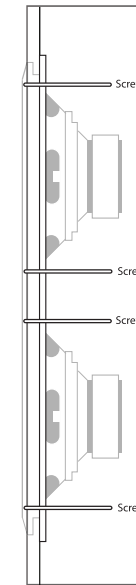


Diagram 6:
Terminal identification

Note: The speakers wire should be about the same length. if one speaker is placed closer to the amplifier the other, hide the excess wire behind the wall

Note: Speaker terminals have corresponding (+) and (-) terminals. It is important to connect both speakers in phase. Out of phase will result in thin sound and weak bass. (See Diagram 6)

Specifications

- Type: Passive In-Wall Subwoofer
- Woofers: Dual 8" Long Excursion Graphite Cone
- Power Handling: 300 Watts
- Freq Response: 28 - 120Hz
- Sensitivity: 95dB 1W/1m
- Grille: Trimless Thin-Bezel held by Neo Magnets
- Dimensions: 20^{5/16}" x 11^{5/8}" x 3^{3/4}"
- Cut Out: 19^{1/8}" x 10^{5/8}"

Amplifier Consideration

Not all receivers/amplifiers can safely operate 2 pairs of speakers at the same time. It is important that the amplifier or receiver's output wattage is comparable to the speaker's power handling. Please refer to your owner's manual for reference.

When connecting any speakers to the amplifier or receiver, make sure the power is off. Locate the connection terminals on the back of your receiver or amplifier, and make sure to connect from the audio outs to the back of your receiver or amplifier to the speakers. (See Diagram 7)

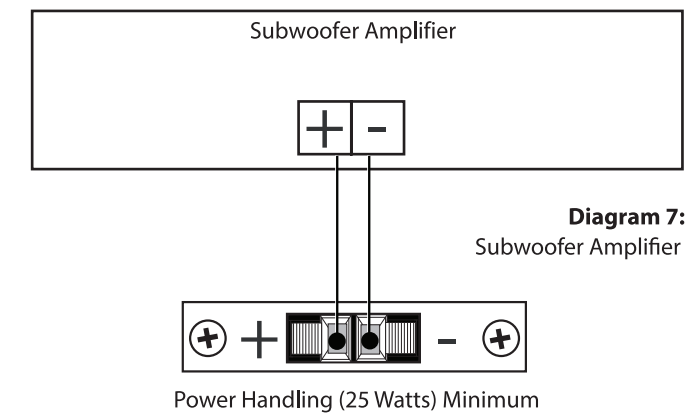


Diagram 7:
Subwoofer Amplifier

All Optimal Speaker Design speaker products have Limited Lifetime Warranty against defects in materials and workmanship. Proof of purchase must accompany all claims. During the warranty period Optimal Speaker Design will replace any defective part and correct any defect in workmanship without charge for either parts or labor. Optimal Speaker Design may replace returned speakers with a product of equal value and performance. In such cases, some modification to the mounting may be necessary and are not Optimal Speaker Designs responsibility.

For this warranty to apply, the unit must be installed and used according to its written instructions. If necessary, repairs must be performed by Optimal Speaker Design. The unit must be returned to Optimal Speaker Design at the owner's expense and with prior written permission. Accidental damage and shipping damage are not considered defects, nor is damaged resulting from abuse or from servicing performed by an agency or person not specifically authorized in writing by Optimal Speaker Design.

Optimal Speaker Design sells products only through authorized dealers and distributors to ensure that customers obtain proper support and service. Any Optimal Speaker Design product purchased from an unauthorized dealer or other source, including retailers, mail over dealers and on-line sellers will not be honored or serviced under existing Optimal Speaker Design warranty policy. Any sale of product by an unauthorized source or other manner not authorized by Optimal Speaker Design shall void the warranty on the applicable product.

Damage to or destruction of components due to application of excessive power voids the warranty on those parts. In these cases, repairs will be made on the basis of the retail value of the parts and labor. To return for repairs, you must email customer service at RMA@audiogeargroup.com for a Returned Merchandise Authorization (RMA) number# then the unit must be shipped to Optimal Speaker Design at the owner's expense, along with a note explaining the nature of service required. Be sure to pack the speaker(s) in a corrugated container with at least 3 inches of resilient material to protect the unit from damage in transit.

This Warranty Does Not Cover: Damage caused by abuse, accident, misuse, negligence, or improper operation (installation) • Any products that have been altered or modified • Any product whose identifying number of decal, serial #, etc. has been altered, defaced or removed • Normal wear and maintenance.