

IWTS-8e SUB Woofer Module

For use with Atlantic Technology SA-350, SA-380 Mono or SA-700 Dual Mono Subwoofer Amplifier Only

Atlantic TECHNOLOGY

Installation Instructions

IMPORTANT NOTE: The IWTS-8e SUB Woofer Module must be used only with its matching Atlantic Technology amplifier (SA-380, SA-350 or SA-700). The 8e SUB Woofer Module also must be installed and used only within its dedicated in-wall enclosure (IN-BOX-8e SUB).

Please take a few moments to read these instructions. They're intended not only to tell you how to mount the speakers, but how to get the best performance from them. We always recommend a professional be involved in the installation of Atlantic InWall Theater System speakers.

Please refer to the Installation Instructions that come with the IWTS-8e SUB In-Wall Enclosure before installing drivers.

Important Considerations Before Installation of IWTS-8e SUB Woofer Module

Mounting and Vibration Concerns

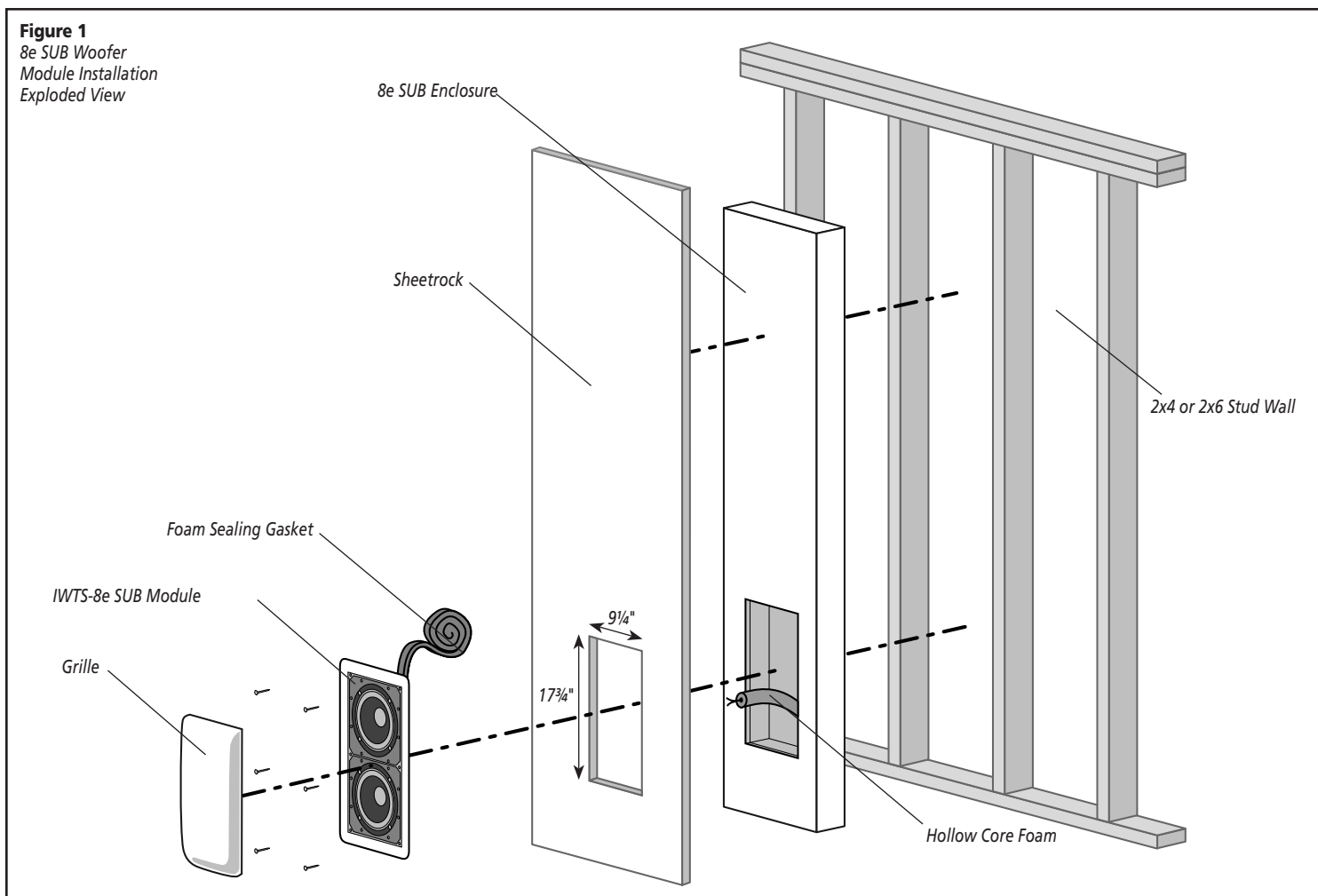
The 8e SUB module is designed to mount into its dedicated in-wall enclosure which must be mounted into the wall before the sheet rock is applied. The 8e SUB Module requires **5/8 inch** or thicker sheet rock to mount properly.

The most critical aspect of installing the 8e SUB module is to ensure that there are no air leaks around the unit and that the speaker wires behind the assembly can't vibrate against any internal part of the assembly. Take your time when installing the foam gaskets and the module and also use great care when attaching and locating the wires while you are mounting the module in the enclosure.

Recommended Wire Sizes

The amplifier that accompanies 8e SUB module is very powerful. In addition it is quite likely that there will be a significant distance between the amplifier and the woofers, necessitating long wire runs. And the longer the wire run, the heavier the wire should be. Therefore, we strongly recommend that you use high quality speaker wire between the subwoofer amplifier and the 8e SUB Module. Please use at least 16 gauge for lengths up to 30 feet. Beyond 30 feet please use larger wire; 14 gauge up to 60 feet, 12 gauge up to 100 feet.) Remember that the wire increases in size as the gauge number decreases. If you're in doubt, remember that it never hurts to get the next heavier grade of wire.

Figure 1
8e SUB Woofer
Module Installation
Exploded View

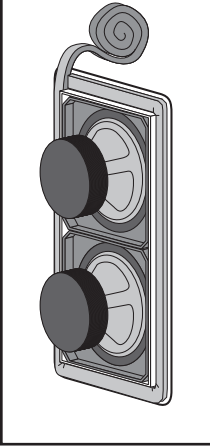


InWall Enclosure/Woofers Module Installation

The woofer assembly is very heavy. Use care and caution when handling it and mounting it in the in-wall enclosure.

1 Before mounting the 8e SUB module you must first apply the 3/4 inch self-adhesive foam sealing gasket (supplied) to the rear side of the 8e SUB white plastic frame (Fig 2). Remove the 8e SUB assembly from its box and place it face down on a flat surface, being careful not to let anything damage the drivers.

Figure 2
Apply foam gasket to frame



2 Begin applying the foam gasket by peeling back approximately 2 inches of the adhesive's protective paper cover. Starting in the middle of one side of the back of the frame, apply the foam gasket to the frame, being careful to keep it at least 1/8 inch away from the outside edge. At the corners simply continue around the trim (do not cut the foam in any corner) being careful not to let the foam bunch up enough to hold the frame off the wall. Be sure that the entire frame is gasketed with the foam. You can cut the foam on the straight sections if necessary, but it must overlap any gaps by 1/8 inch to ensure an air tight seal. Leave no gaps or openings as there will be serious (and clearly audible) air leaks if you do.

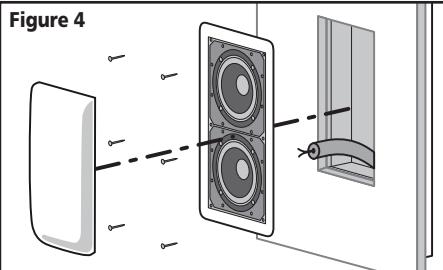
3 Locate the speaker wire that you previously ran into the in-wall speaker enclosure. Packed in the 8e SUB box is an 18 inch piece of hollow core round foam. Cut this foam to the approximate length of the wire, leaving enough wire exposed to connect to the speaker. Run the speaker wire through this foam and tuck it into the in-wall enclosure in such a manner that it will sit within the enclosure and around the woofer magnets when the woofers are installed in the enclosure. The foam eliminates any possibility that the speaker wire will buzz or vibrate inside the enclosure. (Fig. 3)

Figure 3
Hollow core foam



4 Strip about 1/2 inch of insulation from the connecting wires. Connect them to the appropriate terminal on the 8e SUB being careful to observe polarity (positive to the red terminal, negative to the black terminal).

5 Place the 8e SUB into the enclosure, aligning the screw openings with the screw holes in the rear mounting assembly in the in-wall enclosure. Be sure that the round foam wire insulation fits in between the magnet assemblies. If it doesn't you may want to trim the wire/foam to make sure it does. Use the included 3 inch #8 self-tapping screws to attach the two assemblies together. (Fig. 4)



6 Tighten the mounting screws, which will cause the bezel and the rear clamping assembly to capture the wall board between themselves. The bezel will conform to the wall board as it should, but **BE VERY CAREFUL NOT TO OVERTIGHTEN THE SCREWS.**

Removing and Installing the Grille

The Grille is packed separately in the box with the 8e SUB module. This grille must fit very snugly, as the pressure and vibration created by the 8e SUB module is quite capable of shaking the grille off the assembly. **There is a specific method of installation that must be followed in order to properly insert the grille.**

After the woofer assembly has been installed and tested for air leaks install the grille by pressing it carefully into the side of the in-wall frame and then slowly "rocking" it towards the opposite side making sure that the top and bottom fit as you go along. *Attempting to install the grille by putting the top or bottom in first will generally not work.* Since it's designed to fit snugly, please take your time and use care when installing the grille. If the grill is very difficult to install, try backing out the mounting screws just a bit to reduce warping of the assembly. However, be sure that the frame remains tight against the wall board.

Remove the grille from the speaker using an awl or the point of a drywall screw in a grille opening near one of the grille corners. Slowly pry the grille out, being careful not to damage the speaker's frame or its finish.

Painting the Speaker Assembly

The white plastic frame of the speaker baffle assembly and the metal grille may be left as is or painted to match your decor. You can paint the frame before or after it is installed in the wall. Use the included paint shield to protect against getting any paint on the front of the speaker and only use plastic-compatible paint. Spray painting (using paint thinned 4 to 1) is the best method to use for painting the grille. Multiple light coats are much better than a single heavy coat. Be sure, no matter what method you use to paint the grille, that you use air pressure to "blow out" any grille holes that become covered over with paint.

Figure 5
Place paint shield over drivers

