

FlexSub – Features, Benefits, & Application Notes:

Triad FlexSubs provide installers with unprecedented flexibility in subwoofer installation, applications, and appearance. With performance similar to their InRoom, InWall & InCeiling counterparts, FlexSubs are available in two sizes & performance classes: Mini with 8" 4 or 8 ohm driver & RackAmp 350, and Silver with 12" 4 ohm driver & RackAmp 600. They use a damped, coiled, flexible tube 19" (Mini) or 24" (Silver) to 40" in length, to remotely feed two different types of grill assemblies. Included is either a traditional small Triad grill or an HVAC style Vent Outlet, depending on appearance and size. These grills can be custom paint matched by Triad.

High performance FlexSubs can be installed in attics, crawl spaces, floors, ceilings, walls, closets, stairwells, baseboards, cabinet toekicks, and other spaces where limitations prevent the installation of conventional subs. FlexSub performance can be tweaked using our RackAmps' 6-band RoomEQ via IP.

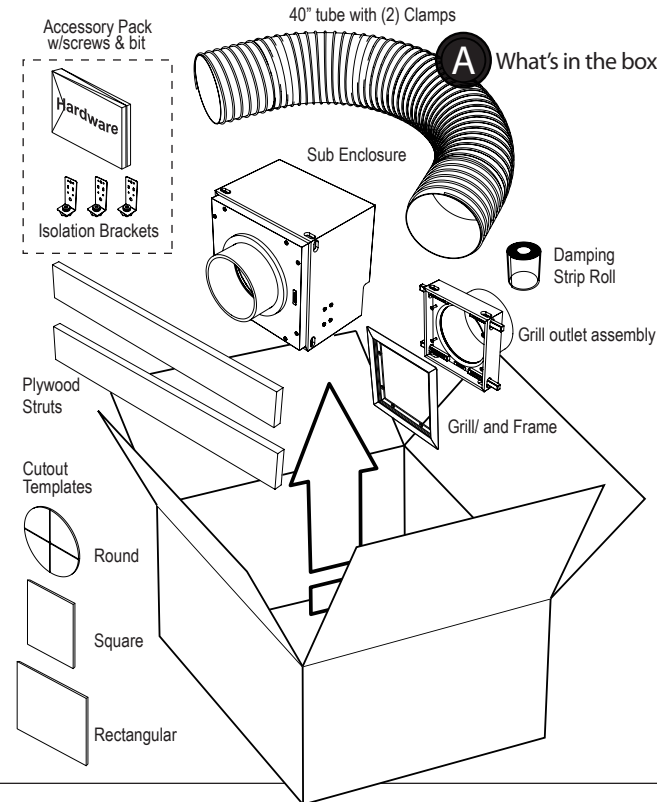
FlexSub Parts Notes:

FlexSubs have 2 grill options: Small Triad sized grills (W for Mini; S for Silver) & HVAC style Vent Outlets. Grills must be specified when ordered. See grill install instructions overleaf on page 2.

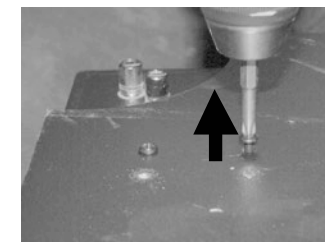
The standard FlexSub tube length is 40". Tubes can be cut to a minimum of 19" (Mini) & 24" (Silver) with a utility knife and heavy duty wire cutter. The two plywood struts are for ceiling or floor joist mounting.

Hint: First install the part, enclosure or vent/grill outlet, with the most limiting install location. Then route the tube to the other location and install it into its assembly.

FlexSub Parts:

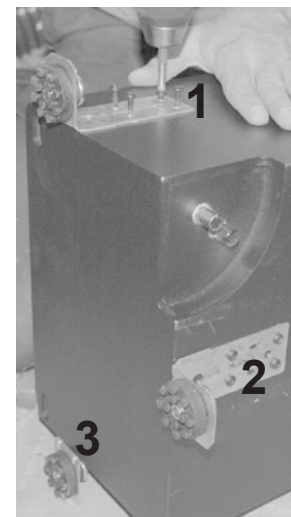


Common to most installs: Install & connect the enclosure (Mini FlexSub shown)



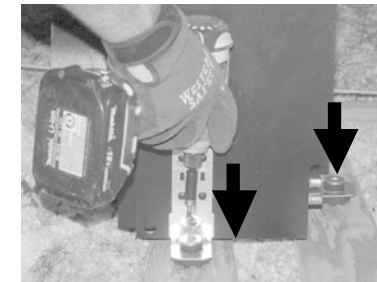
B After removing the 3 groups of 4 bracket screws from the back & 2 sides of the Sub Enclosure, screw the three (3) isolation brackets onto the enclosure.

Do not press screws down so hard that their inserts are forced into the enclosure. To avoid air leak noise, these 12 screws MUST be reinstalled hand tight.

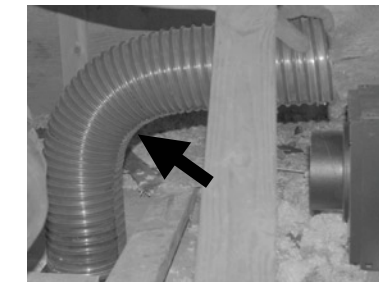


C Screw the 3 brackets into the two Plywood Struts using the supplied 2" self drilling torx head screws.

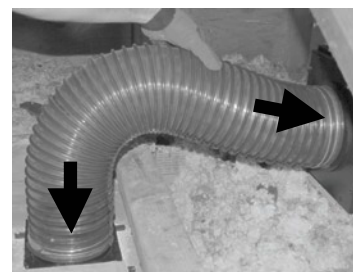
- Round MDF template, included with every FlexSub, is used to cut holes for routing the tube. See Toekick Install on Page 2.
- Rectangular MDF template is for cutting in HVAC style Vent grills.
- Square cardboard template is for cutting in Triad style grills.
- Warning:** To avoid rattles and vibrations, the tube should be routed free and clear of contact with adjoining surfaces. If necessary, dampen points where tube contacts adjoining surfaces. Confirm with subwoofer rattle test.



D Temporarily position the tube between the enclosure and Vent Outlet. On the inside of the bend radius, where the coils touch, you will dampen them in Step E.

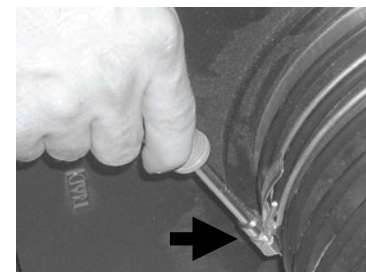


E Straighten hose. Apply damping strip along the *inside* of the tube's bend radius. As you remove the adhesive backing, press the strip taut across the coils where they touch. Trim & save extra foam.



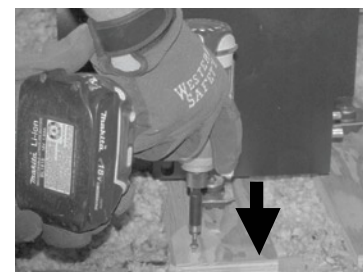
F Seat the tube around the adaptor at each end, keeping the damping strip along the tube's inside radius.

Position the enclosure and 2 struts.

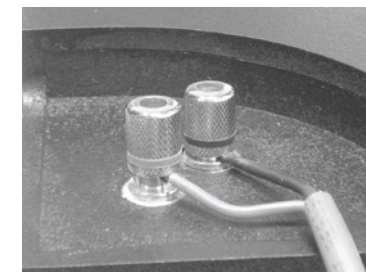


G Using a std nut driver, firmly tighten both clamps, sealing the tube around the adaptors.

Don't strip clamps by over-tightening, particularly with a power tool.



H Screw the struts into the joists using the supplied 2" torx head screws.



I Connect speaker wires from RackAmp to the enclosure's binding posts keeping correct polarity. Retighten just before completing installation. See overleaf for RackAmp settings.

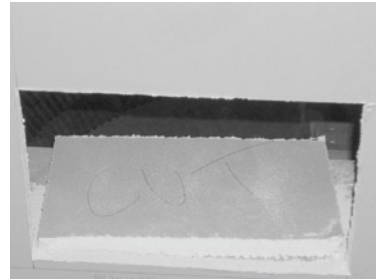
SET UP RACKAMP (SEE OVERLEAF); TEST SYSTEM AT MODERATE VOLUME LEVELS

J Run a subwoofer rattle test (swept bass sine waves). Dampen any rattles or vibrations that occur using left-over damping material; test for air leaks and check that all screw and clamp points are tight.

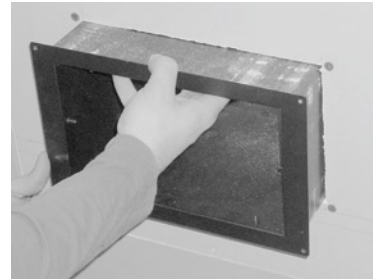


K Finished Installation.

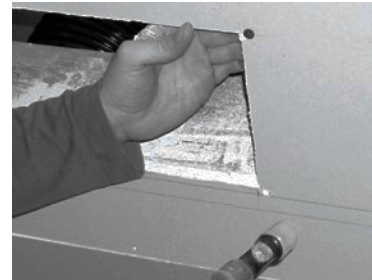
Install Vent Assembly (Silver Vent Assembly shown):



A Using the supplied MDF wood template, level, trace & cut a hole the size of the Vent Outlet body into the face of the mounting surface.



B Press-fit the Vent Outlet through the front of the opening; mark the four screw hole locations.

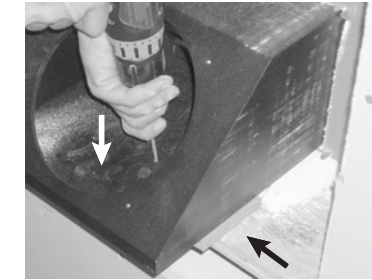


B2 For drywall installs, remove the Vent Outlet and drill 4 holes sized for your fastener/anchors.

Install four fastener/ anchors into the face of the drywall.



C Insert the Vent Outlet & grill into the face of the hole; screw them firmly to the mounting surface using the 4 supplied screws.



D At the back, shim the vent outlet bottom to the correct height and screw the outlet body tightly & securely through the shim into the surface below.



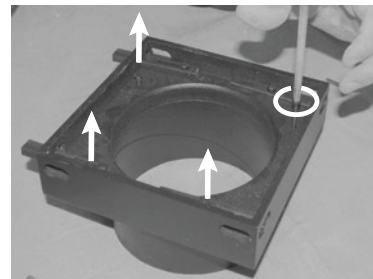
E Attach the mounting flange to the back of the Outlet body using the supplied screws (4 for Silver / 5 for Mini).

Hint: For flush install in material other than drywall, route its surface the depth of the Vent grill face plus its Outlet Flange.

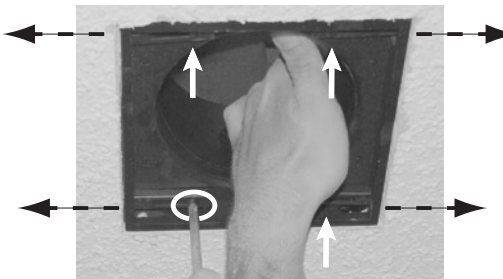
Install W or S sized Grill Assembly (W Grill Assembly for Mini shown):



A Using the supplied template, trace and cut a hole into face of the mounting surface.



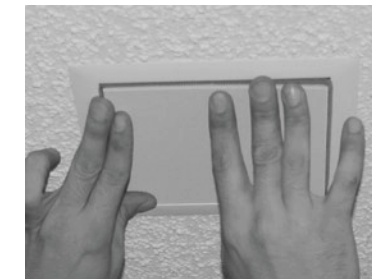
B From the face of the Grill Outlet remove the 4 screws not holding the retro brackets.



C Insert Grill Assembly into the hole from the front. Fully extend and tighten the retro brackets behind the mounting surface.



D Using the four screws previously removed, screw the frame into the Outlet face, snugly sandwiching the mounting surface between the Grill frame and Outlet.



E Press fit the grill into the frame.



F Mini FlexSub with W Grill.

RackAmp 600 DSP Settings for FlexSubs (RackAmp 700 DSP has Pick Sub selection for 1 Silver and 1 or 2 eight ohm Mini FlexSubs. RA 300 has selection for Mini FlexSub)

Note: Select the appropriate "Pick Sub" model and Preset for each FlexSub model as shown below. You can further optimise RackAmp DSP for Flexsubs using Room EQ's 6 Band PEQ set up via a computer. For instructions, download "RackAmp IP Instructions Sub Amp 2.11 - IP Setup & Features" on Triad's Support page Subwoofer tab at <http://www.triadspeakers.com/support.html> . Set up the PEQ filters as shown for each FlexSub model below.

Mini FlexSub – Pick Sub Model IR MINI & Preset REF.

Room EQ: Mini FlexSub – Pick Sub Model IR MINI & Preset REF.

PEQ Gain (db)	PEQ Freq. (Hz)	PEQ "Q"	
PEQ1	-6db	55	5.0
PEQ2	-10db	195	10.0
PEQ3	-10db	300	8.0

Set INPUT GAIN LEVEL to +2db to match level of standard IR MINI

Silver FlexSub – Pick Sub Model IW SILVER & Preset REF.

Room EQ: Silver FlexSub – Pick Sub Model IW SILVER & Preset REF.

PEQ	Gain (db)	PEQ Freq. (Hz)	PEQ "Q"
PEQ1	-10	180	4.5
PEQ2	-10	300	4.5

Set INPUT GAIN LEVEL to +1db to match level of standard IW SILVER