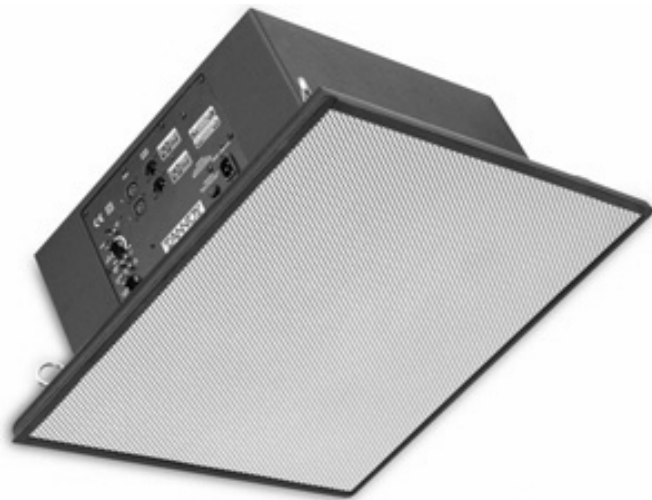


## 110 SERIES SUBWOOFERS



110TB (Tile Bridge)



110SR (Sheet Rock)

### 110 Series Subwoofer O W N E R ' S M A N U A L

# 110 SERIES SUBWOOFERS | O W N E R ' S M A N U A L

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## WARRANTY / DAMAGE CLAIMS

Congratulations on the purchase of your Tannoy 110 Series Subwoofer.

No regular maintenance of the subwoofer is necessary.

All Tannoy professional loudspeaker products are covered by a 5 year warranty for loudspeaker components and one year for electronic component from the date of purchase subject to the absence of misuse, overload or accidental damage.

Claims will not be considered if the serial number had been altered or removed.

Work under warranty should only be carried out by a Tannoy Professional Dealer or Service Agent. This warranty in no way affects your statutory rights.

For further information please contact our service dealer or distributor in your area. If you can not locate a distributor, please contact Customer Services at Tannoy North America. (contact details provided below).

**DO NOT SHIP ANY PRODUCT TO TANNOY WITHOUT PRIOR AUTHORIZATION**

Our policy commits us to incorporating improvements to our products through continuous research and development. Please confirm specifications for critical applications with you supplier.

Tannoy North America Inc. 335 Gage Ave. Unit 1 Kitchener, ON Canada N2M 5E1 Tel: (519) 745-1158 Fax: (519) 745-2364 TFF: (800) 525-7081 Email: <a href="mailto:inquiries@tannoyna.com">inquiries@tannoyna.com</a> <a href="http://www.tannoy.com">www.tannoy.com</a>
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For further information on our warranty policies, please refer to our website. Our customer service department is available normal office hours (EST) for questions regarding service, purchase, installation or any other technical matters.

Installation of Tannoy products should be performed by an experienced contractor familiar with local codes. Failure to properly install and secure heavy Tannoy equipment may cause a device to fall. Tannoy can not be responsible for damage or injury due to improperly installed equipment.

## UNPACKING - DAMAGE CLAIMS

Each Tannoy product is inspected for damage and inventoried to ensure all accessories and packing materials are included before sealing and shipping. Please keep all packaging for the duration of the warranty period.

When unpacking equipment, take note of any damages to the cardboard container and carefully inspect you Tannoy equipment for any impact in that area. Should you have any damage, immediately notify your carrier and our Tannoy customer service department. A return claim may be issued. You may be required to repack the equipment for pick up by a local carrier.

Some Tannoy products will include additional parts, accessories, cables etc... and you are advised to inventory these against the following packing lists for your particular product. If you note any shortage, please contact your local dealer.

## 110 SERIES SUBWOOFERS AND INPUT MODULES

This manual is intended for the owner, operator or installer of Tannoy 110 Series Subwoofers. It is a guide for installing, setting up and operating the 110 Series in accordance with established codes and practices available at the time of publication. It does not and can not detail all possible mounting or wire configurations. The end user is advised to retain the advice and services of a qualified contractor who is familiar with local codes and trained in the installation of Tannoy professional audio systems.

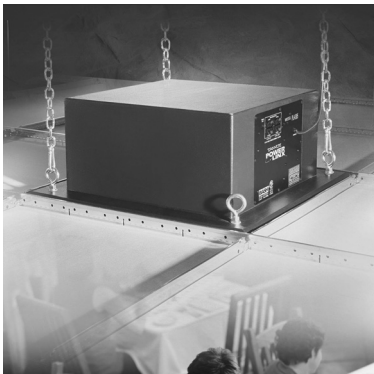
The 110 family of subwoofers has been engineered to deliver low frequency extension and impact from a concealed ceiling mounted position.

The 110 series subwoofers feature a 10" long excursion driver capable of low end response down to 31 Hz and power handling in excess of 100 Watts. Its design is fully complementary to any Tannoy full range wall or ceiling mount loudspeaker.

Two different subwoofer cabinet designs and five different input "modules" offer a wide range of combinations that can meet almost any installation challenge, and fit into any indoor environment.

Today's sound reinforcement systems - whether in commercial or institutional environments - must handle program material that demands high impact, high fidelity audio reproduction. At the same time, they must be nearly invisible. The Tannoy 110 Series of subwoofers meet all of these criteria without compromise.

### CABINET OPTIONS



#### 110TB (TILE BRIDGE) CABINET

Simple yet sophisticated, the 110TB is the first product of its kind: a true ceiling mounted subwoofer. Engineered to deliver low frequency extension (-3dB @ 31 Hz) and impact from a concealed ceiling mounted position, the 110TB integrates almost invisibly into any indoor environment by using a standard air handling vent cover as a speaker grille. The easy to install 110TB drops seamlessly into a 2' x 2' ceiling tile without any special construction requirements. Each corner of the cabinet is fitted with a seismic tether point. This system can also be flown in free space via 3/8" threaded rod, chain or aircraft cable. Fire rating is NFPA class A. Whether your application calls for low level warmth or high SPL slam, the 110TB provides the required punch.



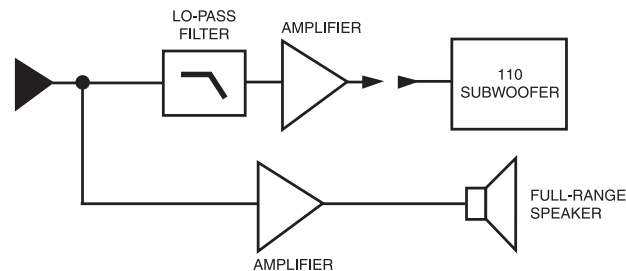
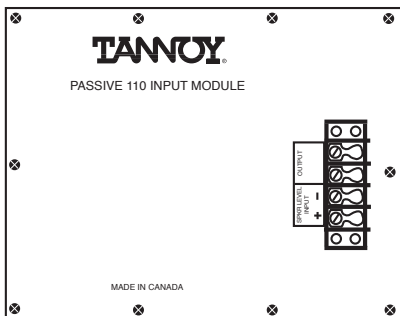
#### 110SR (SHEET ROCK) CABINET

The second in the Tannoy family of true ceiling mounted subwoofers, the 110SR is engineered to deliver low frequency extension (-3dB @ 31 Hz) and impact from a concealed position. It is specifically designed for flush mount in sheet rock ceilings, walls, overhangs or any position offering adequate clearance and suitable structural support. The 110SR features seismic tether points, and safe and secure installation with a sturdy pre-installation ring. The pre-installation ring is available separately for new construction where the sheet rock installers are in ahead of the contractor. A unique benefit of the 110SR is that it remains serviceable, and fully removable, from the ground after installation by simply removing the low profile grille. Fire rating is NFPA class A.

## INPUT MODULE OPTIONS

### PASSIVE (STANDARD)

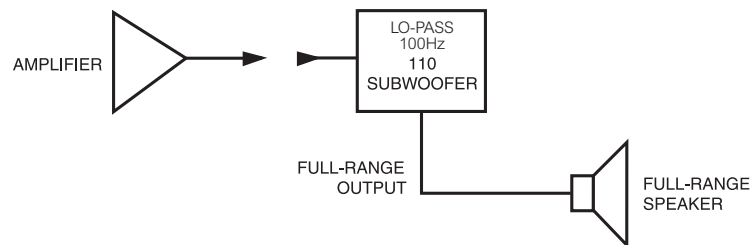
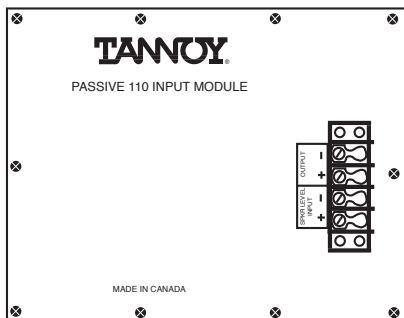
The basic connection panel supplied with any of the 110 Series Subwoofers is a 6 Ohm speaker level input via barrier strip. It is highly recommended that the audio signal be lo pass filtered via an outboard active crossover. This input module is ideal for systems requiring several subs that share a common outboard crossover and amplifier.



PASSIVE 110 INPUT MODULE—NO CROSSOVER  
(MONO INSTALLATION OR SINGLE CHANNEL SHOWN)

### LO PASS FILTER

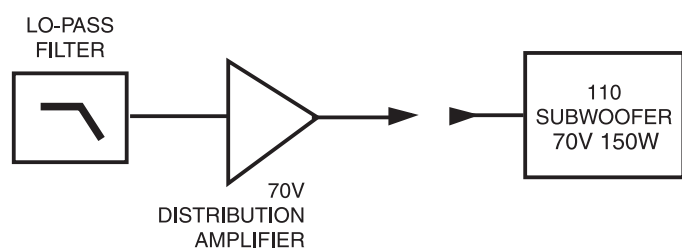
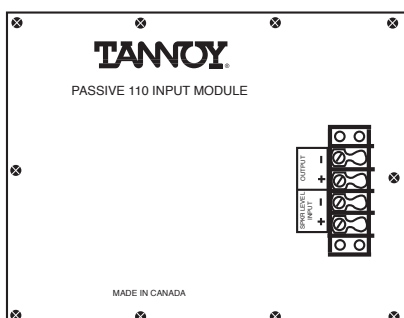
Speaker level inputs and outputs via barrier strip are passively filtered 100 Hz 12dB/octave LO pass for the subwoofer, making this the ideal system for value and simplicity. The total impedance load of the satellite speaker(s) and subwoofer should not be less than the minimum specified for your amplifier. Long wire runs to and from this module need to be an appropriate gauge of speaker grade wire to retain proper damping and signal transfer characteristics.



PASSIVE 110 INPUT MODULE—LO PASS FILTER  
(MONO INSTALLATION OR SINGLE CHANNEL SHOWN)

### PASSIVE 70 VOLT (Passive 70 Volt available for either option of passive units)

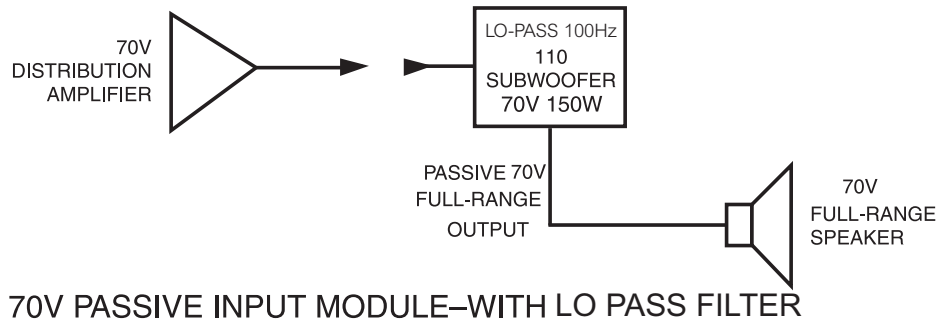
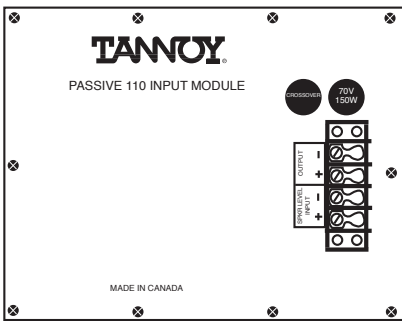
A 70 Volt distribution amplifier is capable of supplying power to a number of remote speakers without concern of long cable runs or varied impedance loads (limited to the amplifier power and line load). The passive 70 Volt module takes advantage of this type of installation with a 150 Watt interface transformer, definitely placing this 70 Volt unit above the "wimpy" crowd.



70V PASSIVE INPUT MODULE—NO LO PASS FILTER

## INPUT MODULE OPTIONS

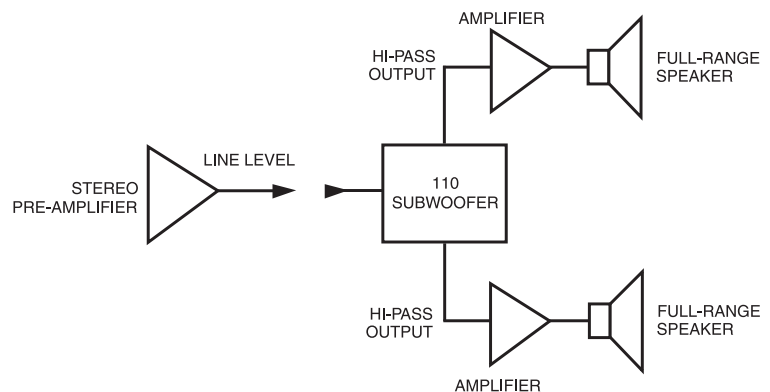
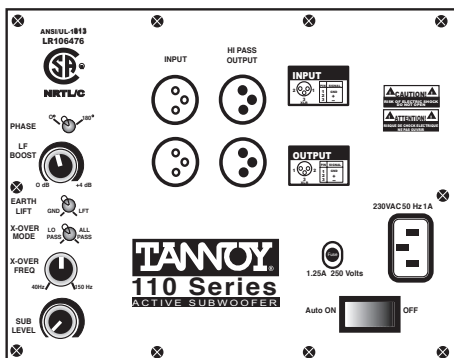
### PASSIVE 70 VOLT WITH LO PASS FILTER



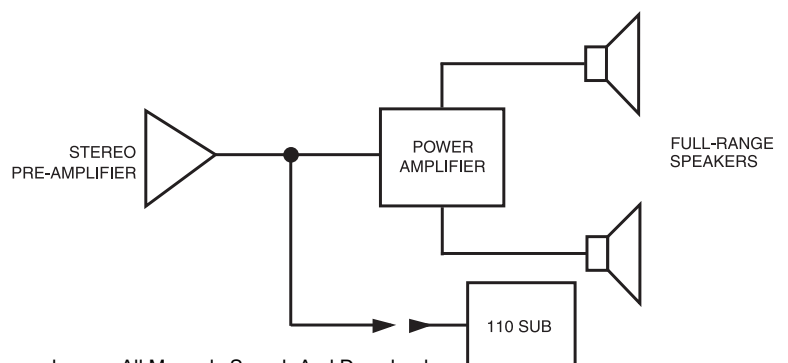
### ACTIVE (ACTIVE SUBWOOFER WITH 2-CHANNEL FEED-THROUGH)

A dedicated power amplifier that really brings your 110 Series Subwoofer to life. Balanced line level inputs with switchable, balanced 80 Hz high-pass feed through's provide appropriate signals to your satellite speaker's amplifier. An auto standby feature automatically switches power on and off in response to an audio signal. A full complement of signal conditioning controls rounds out this very versatile controller (See Active Module Controls for complete information). The Active input module is UL and CSA listed.

ACTIVE 110 INPUT MODULE W/OUTPUTS FOR 2 SPEAKERS  
NEW STEREO INSTALLATION

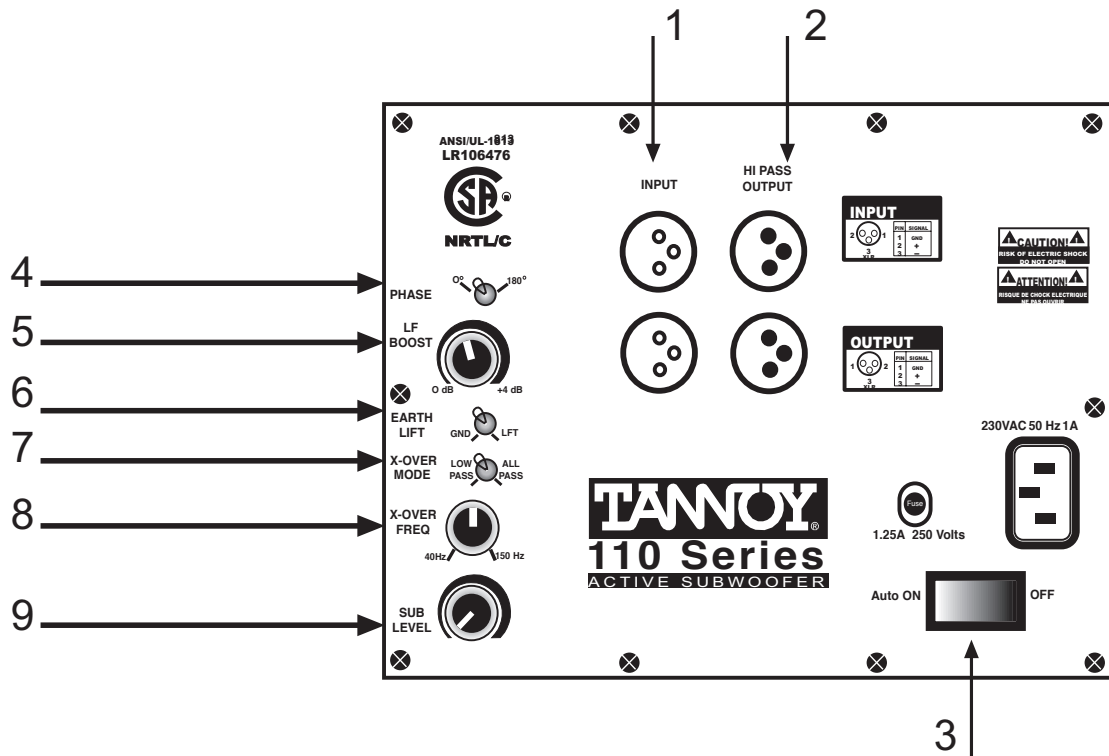


ADDING ACTIVE SUBWOOFER TO AN EXISTING SYSTEM



## ACTIVE 110 INPUT MODULE CONTROLS

### ACTIVE MODULE WITH OUTPUT FOR 2 SPEAKERS



### ACTIVE INPUT MODULE CONTROLS

1) INPUT - Two channel (stereo) balanced line level input. Connect via XLR male plugs from your signal source. Use high quality 2 conductor shielded audio cable ( Belden 8451) for runs of up to 200'. The XLR pinout is: pin 1 (shield), pin 2 (signal high), pin 3 (signal low).

2) HIGH PASS OUTPUT - Two channel line balanced output (male XLR) filtered of frequencies below 80 Hz (12 dB/octave). Connects to your amplifier for driving full range satellites speakers. Use high quality 2-conductor shielded audio cable ( Belden 8451). The XLR pin-out is pin 1 (shield), pin 2 (signal high), pin 3 (signal low).

3) POWER MODE - Select AUTO-ON for automatic power-up in the presence of an audio signal. In this mode, the unit will revert to stand-by after an audio silence of 15 minutes. Switch to OFF to remove power from the unit. Power OFF will also disable the signal to the HIGH PASS OUTPUT.

4) PHASE - Subwoofer phase may be switched to 0 or 180 degrees to match the phase of your full range drivers. The switch is in the correct position when the system exhibits an increase in LF output when switched at a sustained level. NOTE: be sure all full range loudspeakers are wired in common phase during installation.

5) LF BOOST - Adjusts up to 4 dB boost at frequencies below 60 Hz for a more dramatic low end performance.

6) EARTH LIFT - Switches the internal ground connection from chassis to "floating" to help eliminate any possible ground-loops that may cause hum or buzzing in the subwoofer or other pieces of gear.

7) X-OVER Mode - The LO PASS position is used in most installations. ALL PASS presents a full range signal to the subwoofer. The ALL PASS mode allows the user to defeat the built-in LO PASS circuit, which may be useful in certain situations where an external crossover or processor is used.

8) X-OVER FREQ - Used to adjust the LO PASS frequency of the subwoofer. This control only adjusts the signal going to the subwoofer as the HIGH PASS crossover frequency is fixed at 80 Hz. (Satellite speakers with limited low end response may require a higher crossover frequency for the subwoofer). This control is best adjusted by ear using a high quality signal.

9) SUB LEVEL - Used to adjust the gain of the subwoofer amplifier without affecting the HIGH PASS output.

**OPTIONAL J-BOX - If you prefer to hard wire your installation directly into conduit via a J-Box, please specify with your order.**

## MECHANICAL INSTALLATION 110TB

### NEW / EXISTING CONSTRUCTION INSTALLATION PROCEDURES:

#### Before you begin:

Please read and understand all of these instructions thoroughly before beginning any work.

Note that construction work for the installation of all Tannoy products must be done to local building codes by qualified, licensed installers. A local building inspector should approve any overhead installations. Tannoy assumes no liability for cause and effect of improper installation work.

#### Your package includes:

The 110TB ceiling subwoofer is complete with rubber isolation grid around the grille perimeter to drop neatly into a properly secured 2' x 2' ceiling grid without vibration or resonance.

#### Additional considerations:

Survey your site and choose installation locations. At this point, you may choose to suspend the subwoofer in free space or in a 2' space x 2' space dropped ceiling grid installation.

#### Parts / tools required: (Installation dependant)

- Hanger Bolts (Fig. 1.) These can be purchased for installation into wood or metal, for example, with a Hilti™ power fastening system.
- Coupling nuts and backing nuts (Figs. 2 & 3).
- Threaded rod (Fig. 4).
- Turnbuckles (Fig. 5.).
- Wire rope, wire rope nuts, thimbles, chain, quick links (Figs. 5 & 6).
- Wire grid tiles (Fig. 8).

Note: For 2' space x 2' space tile bridge drop in, you will require wire grid support tiles on each of the four corners of the grid immediately beside the subwoofer. This is usually accomplished by means of the same wire support tie used to support the grid and for lighting fixtures etc...

**IT IS IMPORTANT TO ALWAYS TETHER THE SUBWOOFER SECURELY TO THE BUILDINGS PERMANENT STRUCTURE USING CHAIN (Fig. 9) OR WIRE ROPE. THIS IS THE SEISMIC TETHER POINT.**

The list above is a suggested selection of parts only; what you require will depend on your suspension method and physical location.

The 110TB is supplied with four 3/8" closed eyebolts already attached. When suspending in free space, it is recommended that you use the same size hangers, nuts, rods and fittings; alternatively, if you are using wire rope, 1/8" rope and fittings are the smallest you should consider.



Fig. 1:  
Hanger Bolt

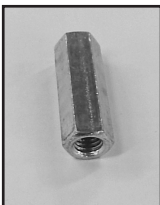


Fig. 2:  
Coupling Nut



Fig. 3:  
Backing Nut

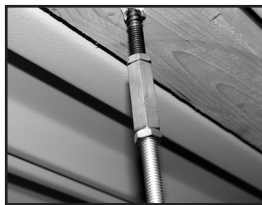


Fig. 4:  
Threaded Rod  
Assembly

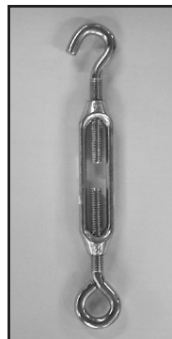


Fig. 5:  
Turnbuckle



Fig. 6:  
Wire Rope Nut  
& Thimble



Fig. 7:  
Quick-link



## MECHANICAL INSTALLATION 110TB

### 2' x 2' Tile grid installation procedures:

- 1) The 110TB was designed for quick and simple installation directly into a 2' x 2' T-bar ceiling grid (Figs. 9 & 10).
- 2) Remove several tiles around the installation location to gain easier access for placing the subwoofer in the ceiling grid.
- 3) Be certain that there is sufficient hanger wire suspending the grid where you intend to install the subwoofer. If not, it may be necessary to add additional grid hanger wires around the perimeter of the location, as required. We recommend a minimum of four per sub location, located on the main grid support bar within four inches of each of the four corners of the subwoofer.
- 4) Using wire rope or chain, select opposing corners on the subwoofer to connect safety lines, or seismic tethers (Fig. 8 & 9) securely to the structure. These lines should be taut enough to support the majority of the weight of the 110TB, yet leave enough load against the ceiling grid to prevent the grid from buzzing. Be sure all tether points are securely fastened to the subwoofer and anchored securely to the substructure of the building.

### Free space installation procedures:

- 1) For an installation in free space, select a location that will allow suspension from directly above the subwoofer. Begin by measuring a 19.5" square, and at each corner install a fastener (Fig. 11 & 12) such as the recommended hanger bolt to support each corner of the subwoofer.
- 2) Thread a coupling nut all the way over a hanger bolt and with a 9/16" socket set, start threading the hanger bolt into the support structure. Secure a hanger to a substructure at all four corners. This may be accomplished several ways depending on your particular installation.
- 3) Back off the coupling nut completely (Fig. 11) and thread on a backing nut with which to lock threads to the coupler. Hold the coupler up to the hanger bolt to estimate the half way point of the coupler and set the backing nut to that height before re-installing the coupler and tightening it in place with a socket and an open end wrench. Thread a backing nut onto the threaded rod (or an eyebolt) far enough so the rod can be threaded into the coupler until it stops, having reached the hanger bolt inside. Now tighten up the backing nut on the rod to secure it from turning, until it looks like (Fig. 4). Remember that the rod could otherwise be an eyebolt, if you are using the wire rope suspension method, or a Hilti™ type fastener. Be sure to follow local building codes.
- 4) Always install and utilize all four points and it should look like (Fig. 13). In this photo, the turnbuckles have been added to the ends of the rods. The closed eyebolt on the turnbuckle has been removed and replaced with the threaded rod. Note that the turnbuckle is stamped with an "L" to identify the load or live end. Observe the correct assembly procedure from rod to eye-hook.
- 5) Now it is a fairly simple procedure to place the subwoofer onto the awaiting hooks. Two people, on separate ladders can now hoist the sub into place. When installed, it can easily be leveled by turning the turnbuckles (Fig. 14).
- 6) If no suitable point exists directly above the desired location, you can use wire rope or chain to make connections that are not perpendicular to the suspension point(s). Under no circumstances should the angles exceed +/- 15 degrees from vertical. Make certain that you follow closely the instructions and regulations for the use of wire rope for overhead suspension. Serious injury could result if guidelines and safety margins are not closely obeyed.
- 7) In this photo (Fig. 15) we have removed the threaded rod and installed eyebolts with backing nuts into the couplers, as described earlier. Detail of the connection with wire rope is shown in (Fig. 8), which is identical top and bottom. Take measurements to approximate the lengths of rope you will need. It might be convenient to make some or perhaps all of your wire ropes on the ground and use a quick link (Fig. 7) on each end to connect between both the suspension point and at the subwoofer. Again, it is important to follow local code and regulations for use of wire rope in overhead suspension. Check with your supplier for additional instructions on its use.
- 8) Once two installers have raised the subwoofer to the ropes and the sub is safely suspended, it can be leveled by adjusting the rope lengths. Check for even tension on all ropes, and note that it is much easier to let some wire slip out of the tighter ropes, rather than trying to pull up and tighten the loose ropes. Once the subwoofer is level, installation is complete.

## MECHANICAL INSTALLATION 110TB

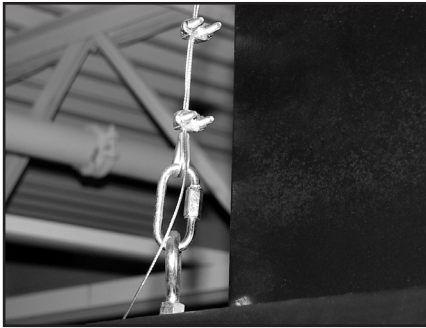


Fig. 8: Wire rope detailing suspension or seismic tether.

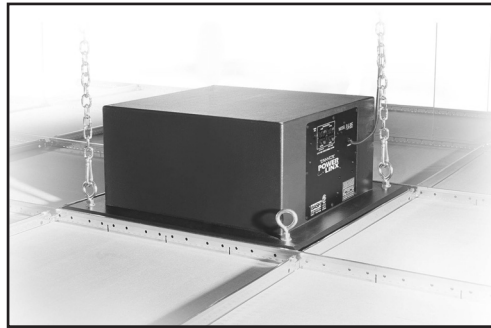


Fig. 9: Installed subwoofer top view, only two chains attached.



Fig. 10: Completed subwoofer installation.



Fig. 11: Installing the hanger bolt.

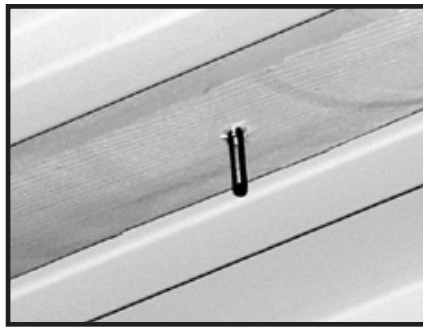


Fig. 12: Installed hanger bolt.



Fig. 13: Suspension points with turnbuckles installed.

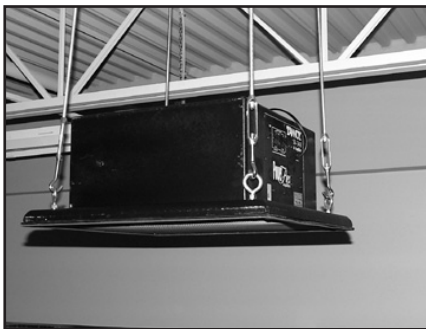


Fig. 14: Leveled subwoofer.

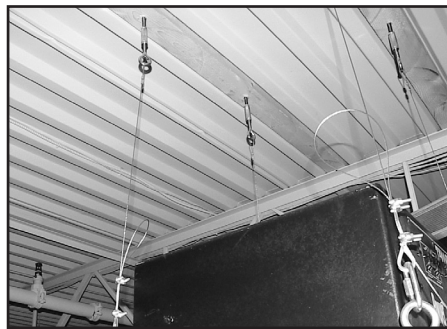


Fig. 15: Eyebolts in place of threaded rod.



Fig. 16: Leveling the subwoofer.

## MECHANICAL INSTALLATION 110SR

### NEW / EXISTING CONSTRUCTION INSTALLATION PROCEDURES:

#### Before you begin:

Please read and understand all of these instructions thoroughly before beginning any work.

Note that construction work for the installation of all Tannoy products must be done to local building codes by qualified, licensed installers. A local building inspector should approve any overhead installations. Always use safety goggles when cutting material using a RotoZip™. Tannoy assumes no liability for cause and effect of improper installation work.

#### Your package includes:

- 110SR subwoofer system
- 11 piece supplied screw package
- Pre-Installation Ring (PIR - SOLD SEPARATELY)
- Individually packaged grille

#### Parts / tools required:

The following is a list of suggested materials and tools. Your needs may differ slightly at each site.

- Rotozip™ cutout tool and Guidepoint™ bit.
- 2ea. 1/2" #8 wood screws
- Cordless screw gun
- Combination square and /or tape measure
- Additional 2" x 4" lumber, in 24" pieces
- Trim saw (optional)

#### Site preparation and installation procedures:

Please note that the 110SR is designed for installation in a ceiling with exposed ceiling joists. The Pre-installation Ring must be secured to the support structure; drywall alone will not support the weight of the subwoofer. Make certain that there is sufficient clearance above the joist (minimum 12") for the subwoofer installation.

Please refer to the photographs as a guideline for installing the pre-installation ring into a wood joist or stud ceiling.

- 1) (Fig. 1) Measure the locations for two 24" strips of 2" x 2" or 2" x 4" blocking. These must be used in order for secure mounting to the pre-installation ring with 2 1/2" #8 wood screws. Use a combination square to measure the thickness of the pre-installation ring (approx. 5/8" and then transfer the measurement to the joist.
- 2) (Fig. 2) Screw the blocking to the joist with several evenly spaced screws. (Fig. 3) Fasten the pre-installation ring similarly to the blocking, Note that there are no pre-drilled holes; use the wood screws to go directly through the pre-installation ring, keeping a 1" clearance from any "T" nuts. Note: the pre-installation must be installed with "T" nuts on the top side. The pre-installation ring is clearly marked for your safety and convenience.
- 3) (Fig. 4) Shows the pre-installation ring installed against a steel stud furring channel. Attach the pre-installation ring with screws directly through the furring and into 24" strips of blocking installed on the upper side of the channel so that the screws will go into both. Ensure that overhead work is carried out safely and according to local building codes.
- 4) After the pre-installation ring installation is complete, run your signal wires. At this time, have an electrician install electrical circuits for your sub, if required.
- 5) Also at this time, we recommend that you install a safety line typically a light gauge wire rope, from a secure point on the support structure above the subwoofer. Attach this to the strapping on either side of the sub and suspend it in case the installation is compromised. Follow the instructions for wire rope installation from you wire rope supplier and check with your local building codes for specifics.

## MECHANICAL INSTALLATION 110SR

### NEW / EXISTING CONSTRUCTION INSTALLATION PROCEDURES:

- 6) Leave some excess wire hanging through the opening in the pre-installation ring so the drywall contractors can cut a hole and drop the wires through. You may also want to consult with them on cutting the opening for the sub as they will likely have power tools. (Fig. 11) necessary to quickly and accurately cut out the opening (Fig. 5).
- 7) If you are inexperienced, but plan on doing this yourself, the job can be made easier by proceeding in two steps.
  - A) "Hog" out the major inside portion of the material (Fig. 5).
  - B) Carefully cut out the recess for attaching the subwoofer (Fig. 6).
- 8) A word about the Rotozip™ tool for cutting holes in wallboard: using the correct bit and accurately setting the cutting depth will greatly reduce any errors caused by the tool "getting away" or cutting into the pre-installation ring. Use only a Guidepoint™ bit (Fig. 11); it will follow the inside perimeter of the pre-installation ring. For the first cut, set the depth to the thickness of the wallboard plus 5/8" (the thickness of the pre-installation ring). Example: 5/8" pre-installation ring plus 5/8" wall board equals 1 -1/4" cutting depth.
- 9) After the majority of the material has been removed from the center of the pre-installation ring, you can set the cutting depth for the second step. Holding the tool up to the opening, set the depth gauge so that the Guidepoint™ bit will now follow the recessed cutaway in the pre-installation ring.
- 10) After cleaning the remaining debris and dust from the opening, it should look like (Fig. 6). Take note of the location and color of the 11 "T" nuts are gold in color, to differentiate them from the remaining seven which are for securing the 110SR in place.
- 11) You must align the cutout on the 110SR with the same control access cutout (indicated with red paint) on the pre-installation ring, that will allow you to make adjustments to the system later. Orient the signal cable to the cutout and prepare to make the AC mains connection before completing the next step.
- 12) Put the subwoofer into place, resting it on an angle (Fig.7) on the secondary wooden installation "ledge" on the side of the sub; this will assist you in getting a hand free to operate the screw gun (Fig. 8). There are seven 3" Phillips-head, 8 - 32 black machine screws for securing the 110SR to the pre-installation ring.
- 13) The subwoofer is normally installed in place after painting is completed to keep the sub looking new (Fig.9). Installing the grille (Fig. 10) with the four remaining white 3" Philips-head 8-32 screws completes the 1110SR installation.



Fig. 1: Installation of blocking for flush mounting of pre-installation ring to joists.



Fig. 2: Overhead view of pre-installation ring, showing blocking attached to joist.



Fig. 3: Attaching pre-installation ring to blocking.

## MECHANICAL INSTALLATION 110SR



Fig. 4: Pre-installation ring on steel furring channel prior to drywall being placed.



Fig. 5: Cutting drywall using the Rotozip™.

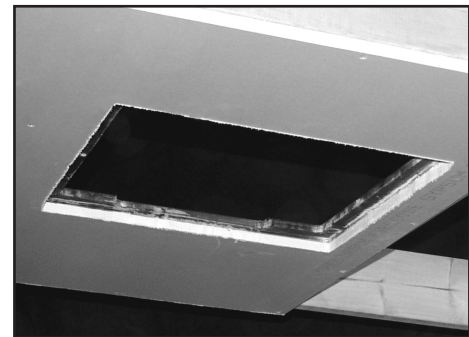


Fig. 6: Completed install showing the reveal of the pre-installation ring relative to the ceiling board.



Fig. 7: Installing the subwoofer using the ledge to temporarily secure it.



Fig. 8: Attaching the subwoofer to the pre-installation ring.



Fig. 9: Completed subwoofer detail.

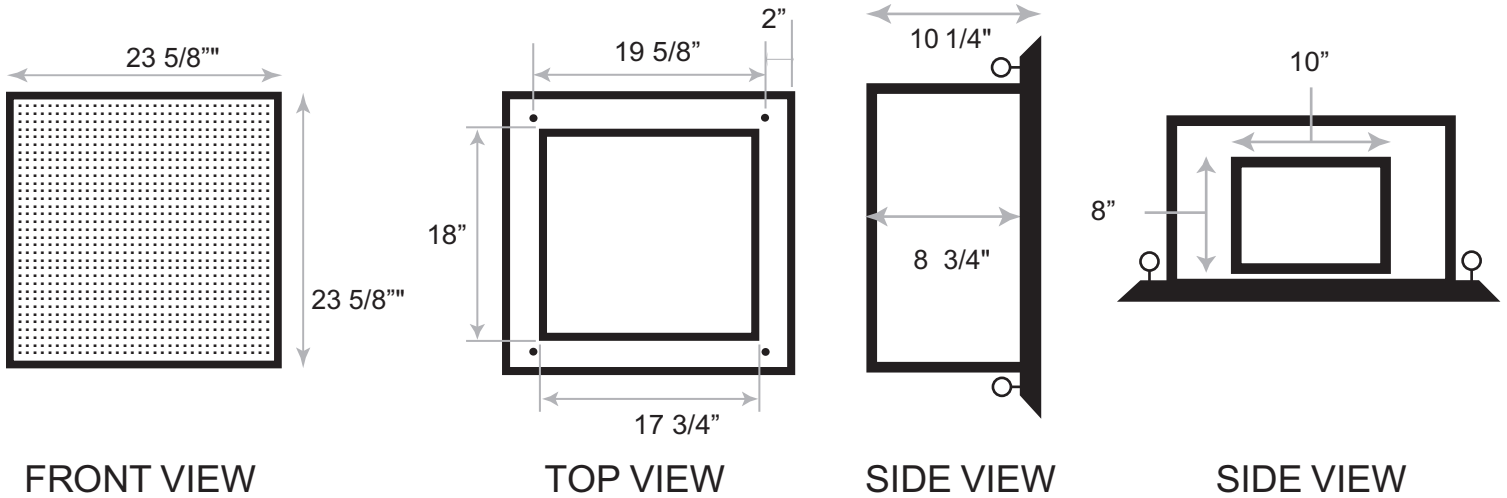


Fig. 10: Completed subwoofer installation.

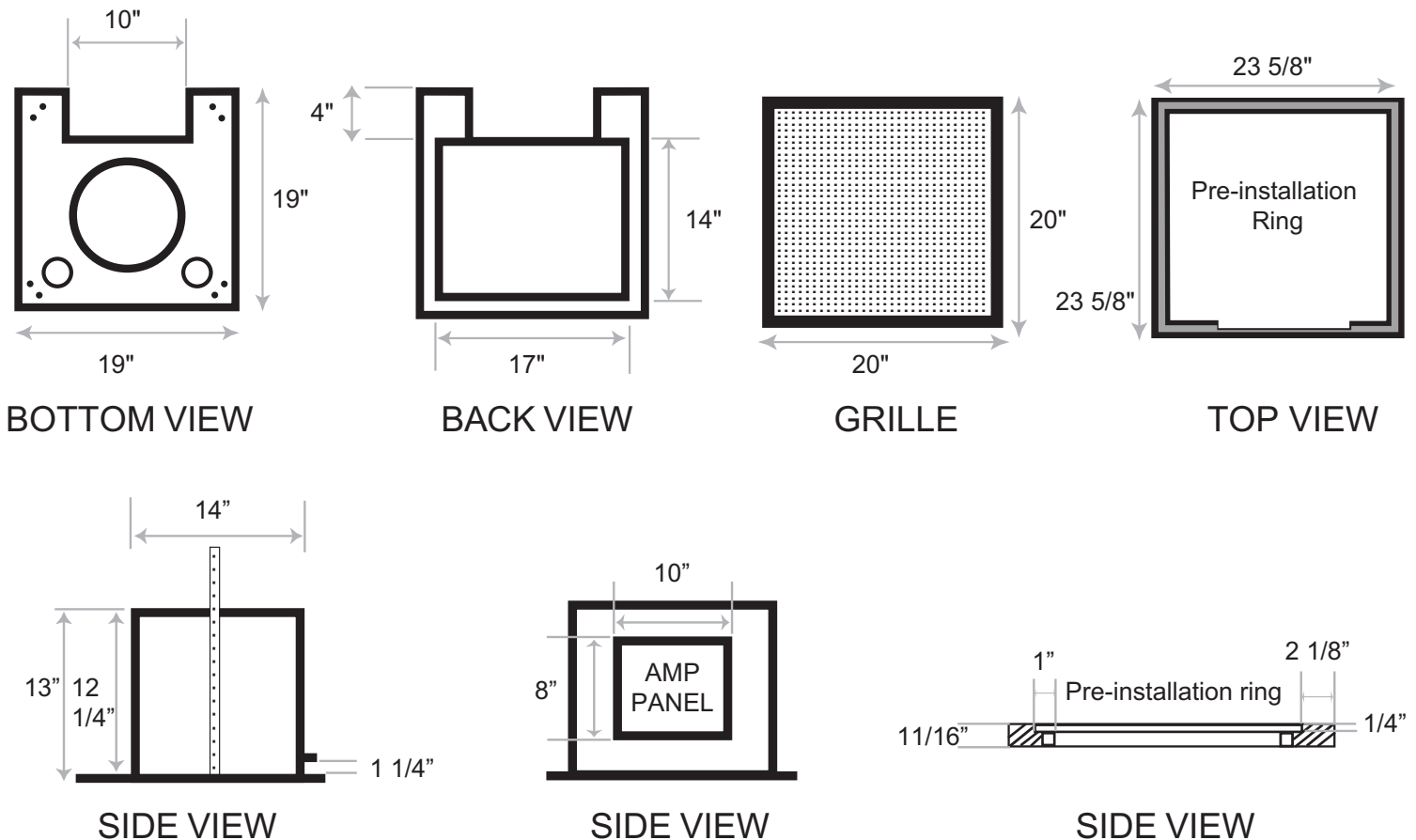


Fig. 11: Rotozip™ showing guidepoint bit.

**DIMENSIONS 110TB SHIPPING WEIGHT WITH ACTIVE MODULE: 40 LBS.**



**DIMENSIONS 110SR SHIPPING WEIGHT WITH ACTIVE MODULE: 37 LBS.**



## TECHNICAL SPECIFICATIONS ACTIVE MODULE

Frequency Response:	(-3dB) 31Hz - 150Hz (-10dB @ 21Hz) - Active Module (-3dB) 41Hz - 150Hz (-10db @32Hz) - Passive
Power Rating:	110 Watts RMS
Maximum SPL (2) 2 1 meter:	110dB (Peak)
Driver Complement:	1 x 10" (254 mm)
LF Cutoff (-3 dB):	31Hz, 6th order tuning, vented box
Inputs:	2 x XLR balanced
Outputs:	2 x XLR balanced
Protection Limiter:	Threshold at onset of clipping
Input Level:	Continuously variable input gain control
Lo Pass Filter:	Continuously variable 40Hz - 150Hz, 24dB/Octave
All Pass:	31Hz - 300Hz +3dB
High Pass Filter:	Fixed at 80Hz, 12dB/Octave
High Pass Output:	L/R, unity gain XLR balanced
High Pass Output Bandwidth	80Hz - 150 kHz -3dB
Amplifier Type:	Mosfet outputs
AC Power Requirement:	110/120 VAC 50/60Hz or 220/240 VAC 50/60Hz
Power Consumption:	16 Watts at idle 150 Watts at rated power
Power Indicator:	Front mounted green LED in active mode, "when signal is present or on initial power up". Green LED turns to red if signal is not present for more than two minutes indicating stand-by mode. The sub turns "auto on" when signal is re-introduced.

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