

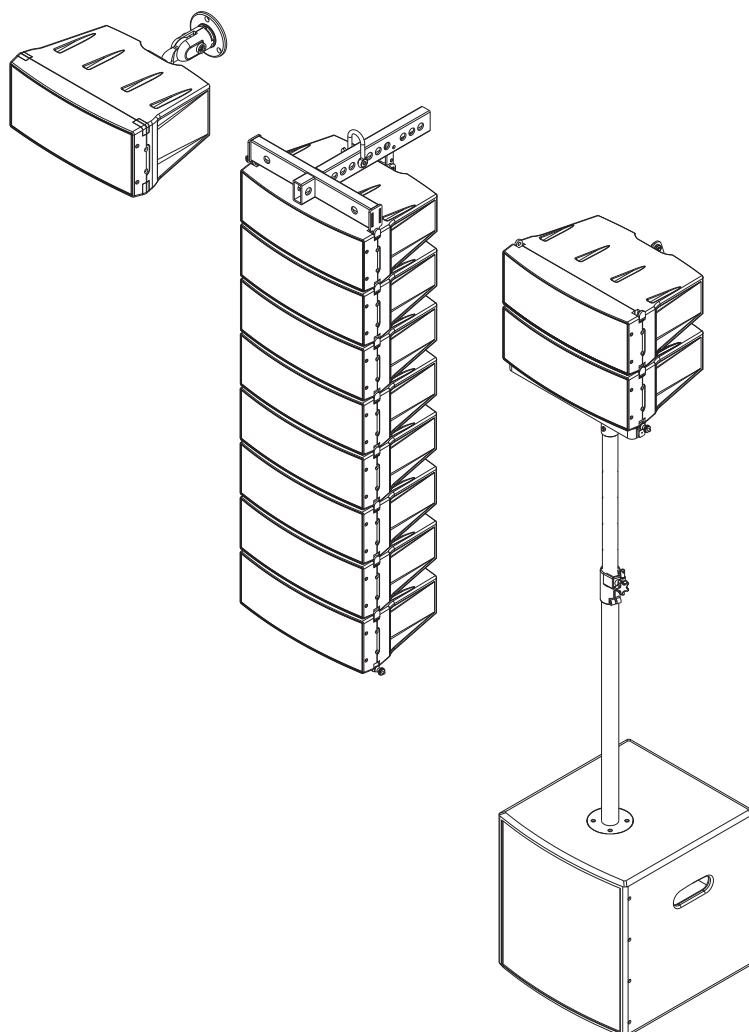


SOHO FLX

S E R I E S

User's Manual

FLX 3 / FLX 5 / SOHO S12 FLX



Important Safety Instructions



TO REDUCE THE RISK OF ELECTRIC SHOCK PLEASE DO NOT REMOVE THE COVER OR THE BACK PANEL OF THIS EQUIPMENT. THERE ARE NO PARTS NEEDED BY USER INSIDE THE EQUIPMENT. FOR SERVICE, PLEASE CONTACT QUALIFIED SERVICE CENTERS.



This symbol, wherever used, alerts you to the presence of un-insulated and dangerous voltages in the product enclosure. These are voltages that may be sufficient to constitute the risk of electric shock or death.



This symbol, wherever used, alerts you to important operating and maintenance instructions. Please read.



Protective Ground Terminal



AC mains (Alternating Current)




Hazardous Live Terminal

ON: Denotes the product is turned on.

OFF: Denotes the product is turned off.

CAUTION

Describes precautions that should be observed to prevent damage to the product.

1. Read this Manual carefully before operation.
2. Keep this Manual in a safe place.
3. Be aware of all warnings reported with this symbol. 
4. Keep this Equipment away from water and moisture.
5. Clean it only with dry cloth. Do not use solvent or other chemicals.
6. Do not damp or cover any cooling opening. Install the equipment only in accordance with the Manufacturer's instructions.
7. Power Cords are designed for your safety. Do not remove Ground connections! If the plug does not fit your AC outlet, seek advice from a qualified electrician. Protect the power cord and plug from any physical stress to avoid risk of electric shock. Do not place heavy objects on the power. This could cause electric shock or fire.
8. Unplug this equipment when unused for long periods of time or during a storm.
9. Refer all service to qualified service personnel only. Do not perform any servicing other than those instructions contained within the User's Manual.
10. To prevent fire and damage to the product, use only the recommended fuse type as indicated in this manual. Do not short-circuit the fuse holder.

WARNING

To reduce the risk of electric shock and fire, do not expose this equipment to moisture or rain.



Dispose of this product should not be placed in municipal waste and should be separate collection.

Before replacing the fuse, make sure that the product is OFF and disconnected from the AC outlet.

11. Move this Equipment only with a cart, stand, tripod, or bracket, specified by the manufacturer, or sold with the Equipment. When a cart is used, use caution when moving the cart/equipment combination to avoid possible injury from tip-over.



12. Permanent hearing loss may be caused by exposure to extremely high noise levels. The US. Government's Occupational Safety and Health Administration (OSHA) has specified the permissible exposure to noise level. These are shown in the following chart:

Hours x day	SPL	Example
8	90	Small gig
6	92	Train
4	95	Subway train
3	97	High level desktop monitors
2	100	Classic music concert
1.5	102	
1	105	
0.5	110	
0.25 or less	115	Rock Concert

According to OSHA, an exposure to high SPL in excess of these limits may result in the loss of hearing. To avoid the potential damage of hearing, it is recommended that Personnel exposed to equipment capable of generating high SPL use hearing protection while such equipment is under operation.

The apparatus shall be connected to a mains socket outlet with a protective earthing connection.

The mains plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

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Don't forget to visit our website at www.toppopro.com
for more information about this and other Topp Pro products.

1

Introduction

Thank you for choosing **TOPP PRO**. The new **TOPP PRO ARRAY SERIES** cabinets have been designed to provide a cost effective high grade solution while maintaining high quality cabinet construction and optimum components.

The array series, can be used for all types of applications including, but not limited to, churches, conference centers and discos.

The woofer and neodymium driver combination provides excellent performance rivaling those cabinets costing much more.

Our Professional Audio Products are designed and tested by a highly qualified engineering team with more than 20 years of experience. Great care is placed in delivering products with excellent performance, specifications and dependable reliability. Also great emphasis is placed in creating and bringing to market products that can fill multiple applications and also offer customers exceptional value.

2

Installation Tips

- Speakers should be placed in a position that allows for unobstructed sound projection. In many instances it is beneficial for speakers to elevate on tripod stands to achieve maximum dispersion and reach. Consider TOPP PRO speaker stand or equivalent to raise speakers.
- Using quality cables ensure best possible sound. Consider using TOPP PRO 16 or 14 gauge cables or equivalent.
- For best results match the speakers to a good amplifier that matches the wattage and impedance of your speakers. Proper amplification power results in good quality audio and longer component life. Check out.
- Avoid pointing microphone directly at an amplified speaker otherwise could cause feedback possible damaging speaker components and your hearing.

Enjoy the sound!

3

Usefull Data

Please write your serial number here for future reference.

Serial Number:

Date of Purchase:

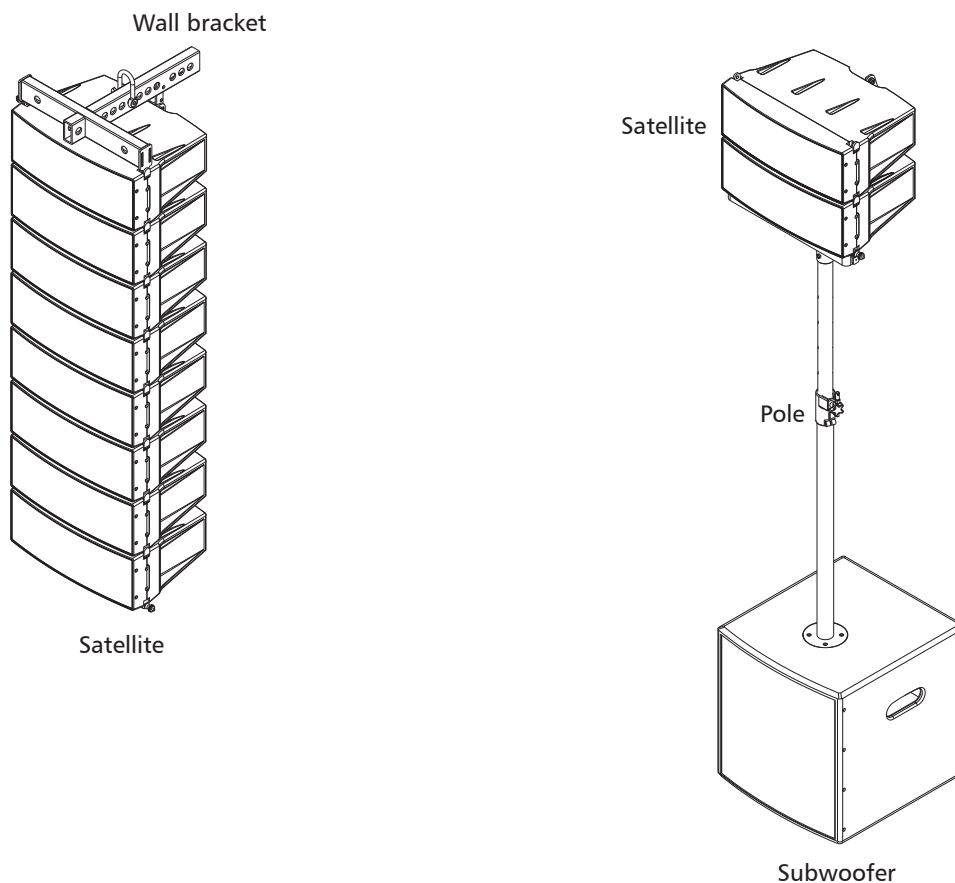
Purchased at:

Quick Start

When mounting a speaker onto any stand, always ensure that the stand is on a flat, level surface, with the legs fully extended. Be sure to check that the maximum load weight for the stands is greater than the weight of the ARRAY SYSTEMS loudspeaker. Never use a stand with a maximum load weight lower than the speaker. Do not attempt to mount more than one speaker on a stand at one time.

The ARRAY SYSTEMS loudspeakers are heavy. It is recommended that a second person help place the cabinet on a stand.

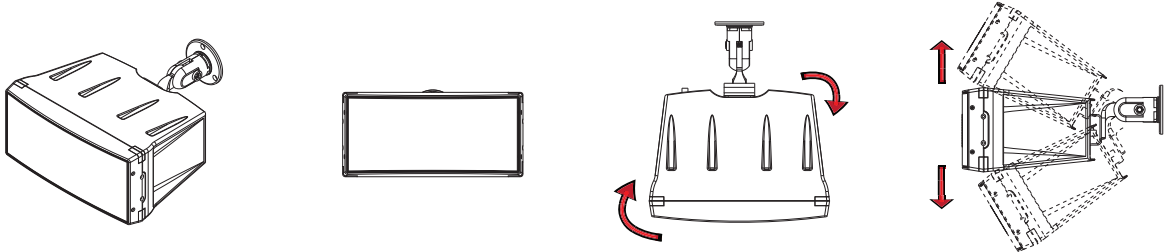
When the speaker is placed on a stand, always check the integrity and center of gravity of the system. If the speaker can be tipped easily, or the pole is swaying, it is recommended that you lower the height of the stand. Position the stand and route cables so that the performers and the audience cannot tip over or trip on the system.



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Satellite Layout of The Connector Panel

One module



The direction of the bracket can be adjusted from any side.

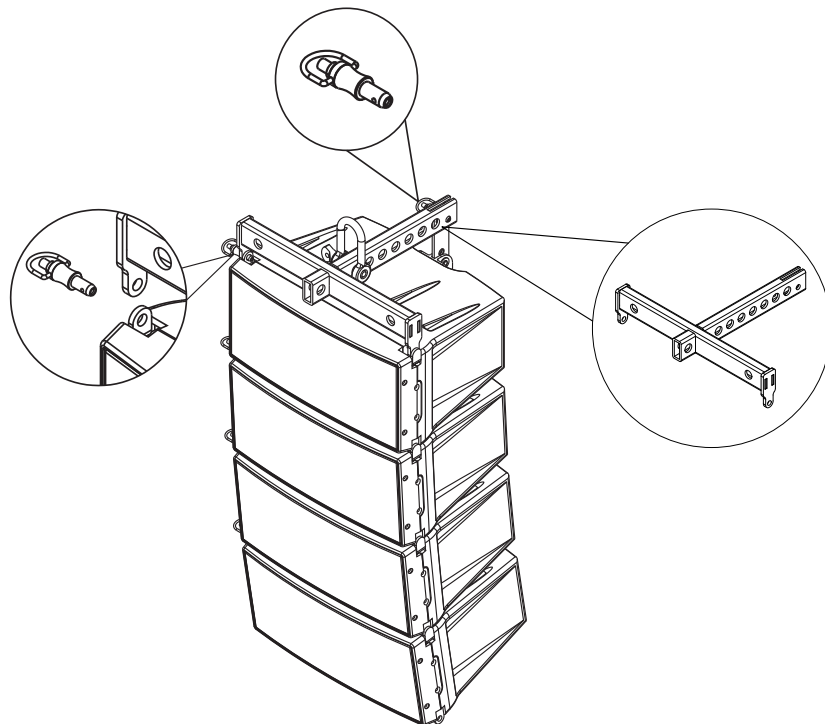
More module

Versatile mounting options

Compared to many other speaker designs, the satellite Series is remarkably easy to install in several ways. It can be hung easily with chains, strong wires and cables using the accessory brackets.

There are also options for hanging with a pre-install rane by itself or configured with a subwoofer.

There are also other options including ceiling and wall brackets as well as an adapter for use with a dedicated stand.

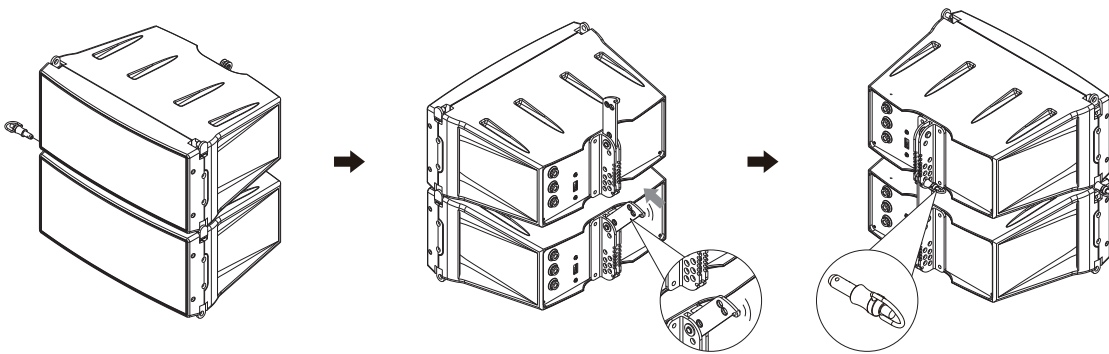


The bracket support wall and ceiling mounting with most 8 modules .
The direction and angle can be adjusted from any side.

Satellite Layout of The Connector Panel

Connect Manner

- 1 Align two units to make the latch hole in the same line. Insert the latch and lock the screw tightly.
- 2 Adjust the angles of the unit (seven angles: 0° -1.5° -3.0° -4.5° -6.0° -8.0° -10° for FLX 3, nine angles: 0° -1.5° -3.0° -4.5° -6.0° -7.5° -9.0° -10.5° -12° for FLX 5 can be adjusted), insert the rear connecting pin into the related slot and put the latch into the hole.

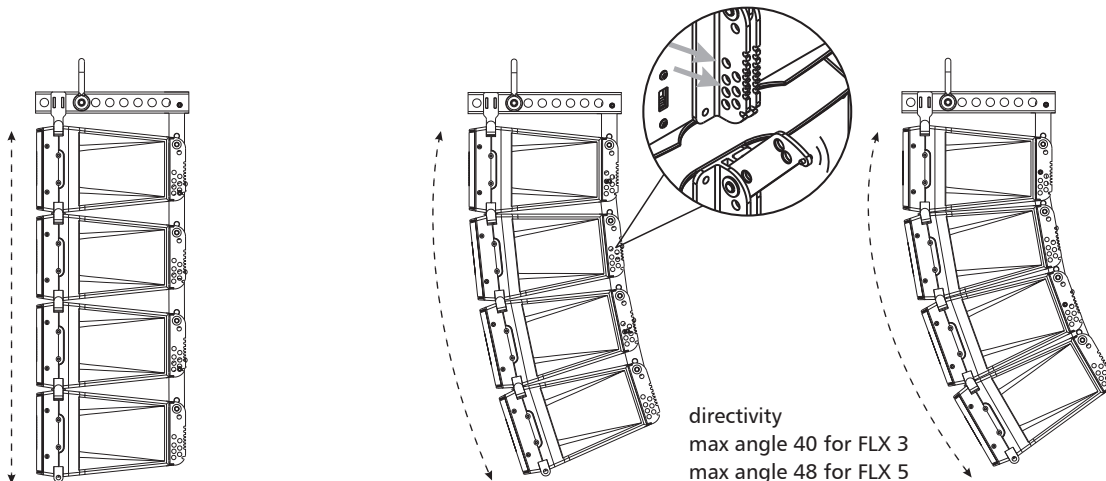


You can insert each three different holes when connecting the rear bracket. You can obtain different sound by different angles.

Adjustable sound dispersion(for example four pcs)

A system in configured by vertically stacking four speaker modules with a total driver complement of four woofers and 12 tweeters(four tweeters of FLX 5) positioned along the baffle surface, this configuration allows the variable directivity control and low-frequency dispersion control comparable to using a large constant-directivity horn speaker. A choice of seven angles for FLX 3 / nine angles for FLX 5 can be employed as needed.

For instance, a specific directivity angle, or each module can have its directivity independently set for a specific coverage requirement. When two or multiple modules are connected to configure an arc, they effectively function as an immense single speaker controlling directivity for considerably lower frequencies. As a result, public address functions demonstrate optimal intelligibility even in environments with long reverb times.



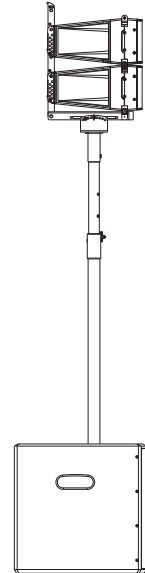
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Satellite Layout of The Connector Panel

Small Array Configuration

This is an example of the HFC application with two Satellite's in a small array, Do not stack more than two Satellite speakers on the pole.

NOTE: Be sure to lock the two speaker cabinets with the original hardware.

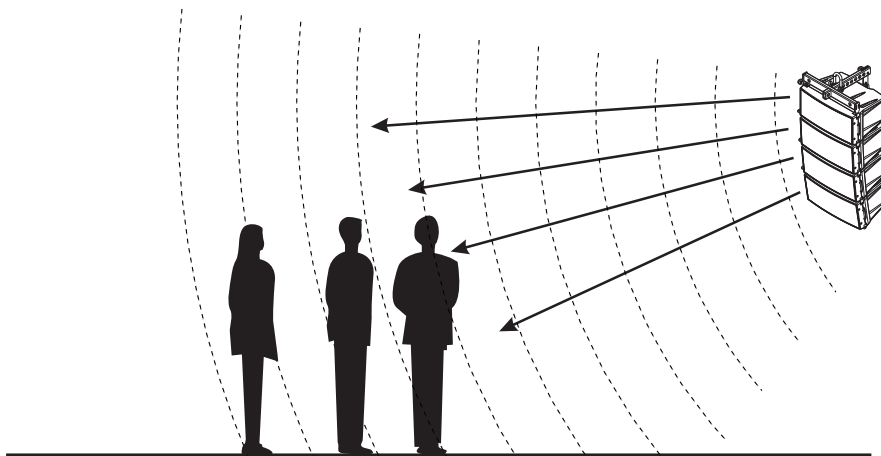


Suspension Safety Warning

Research and understand the local regulations and requirements of the country where you intend to install the line array. The correct assembly of all associated hardware is required for a safe suspension system. Two point suspension with uniform loading of each lifting location is recommended when using FLX 3 / FLX 5 **Array Frame**.

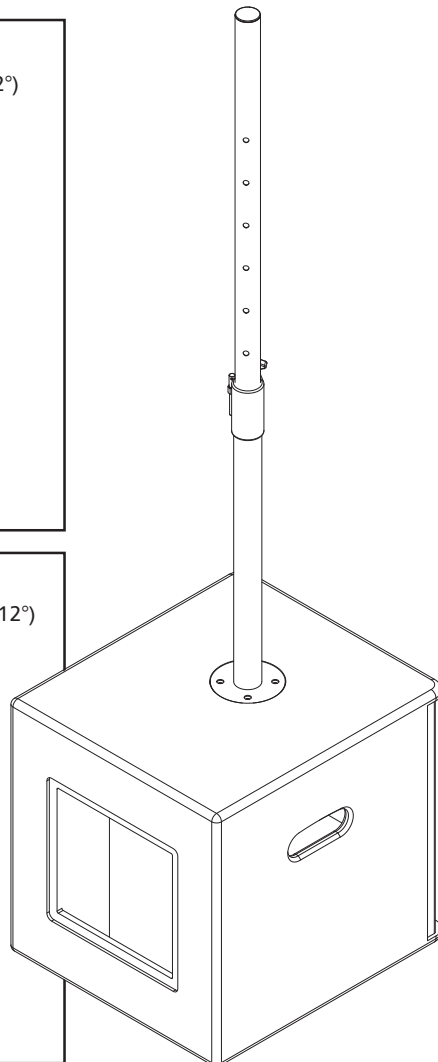
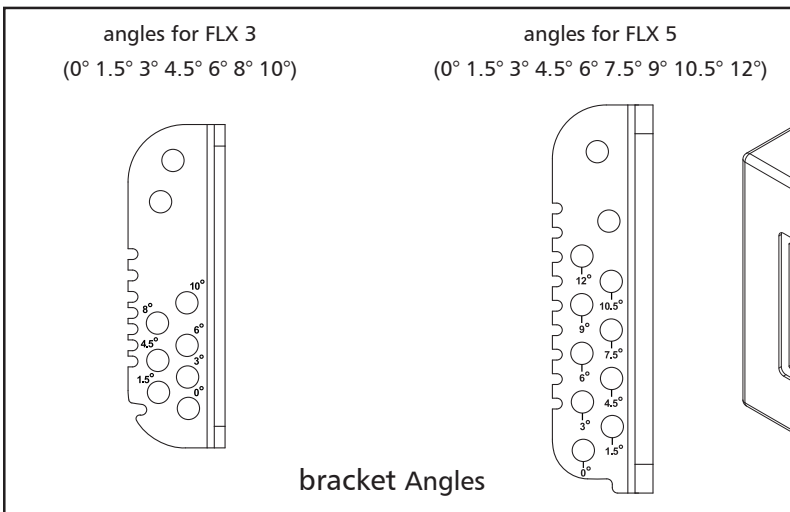
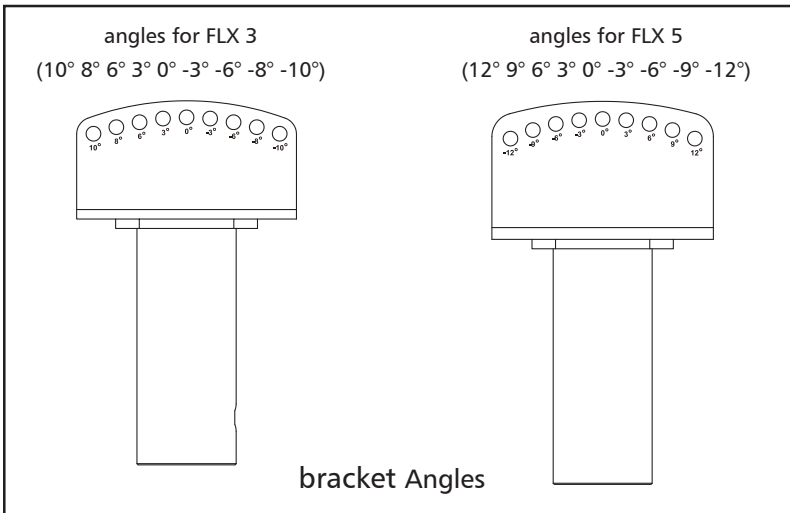
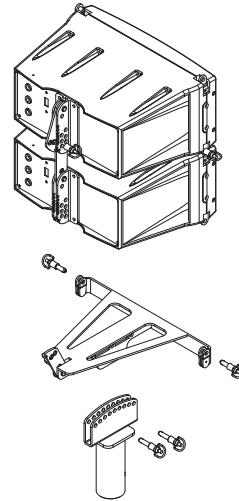
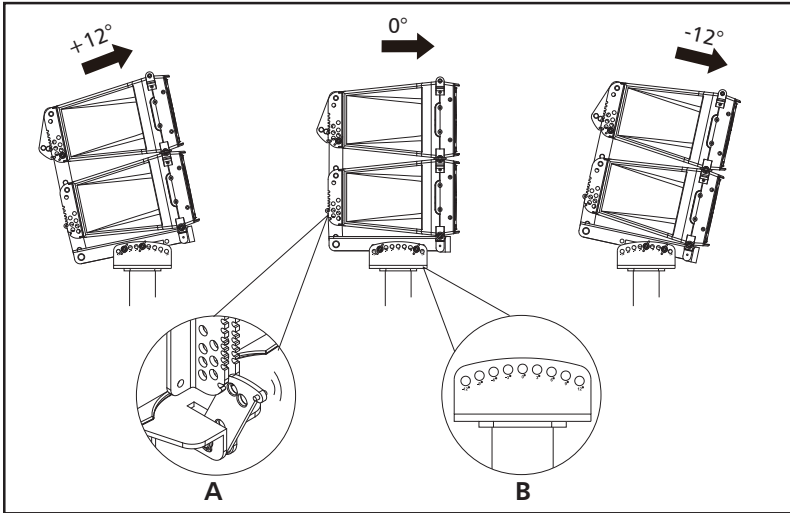
Minimal reflective effects

Whether mounted on the wall or ceiling, the satellite is remarkably free from the comb filter and interference effects often encountered with other speaker designs. It can therefore produce more low frequency output even when mounted on the wall or ceiling.



Satellite Layout of The Connector Panel

Bracket Angles

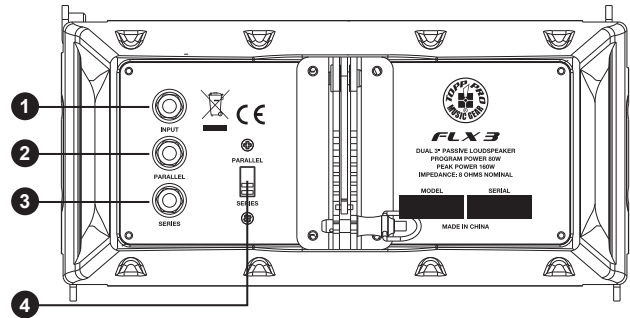


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Satellite Back Panel Description

FLX 3

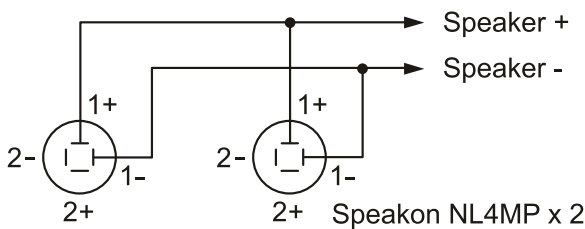
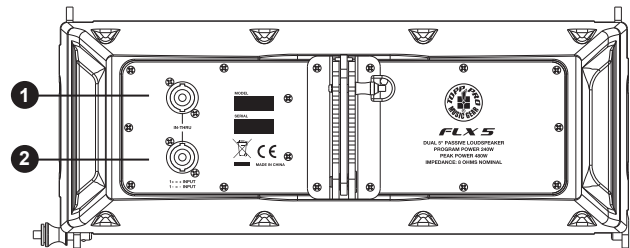
- 1) INPUT: Receive the power coming from an external power amplifier.
- 2) PARALLEL: power output for another product to parallel, parallel and input are link.
- 3) SERIES: Power output for another satellite speaker to series.
- 4) Slide Switch: Parallel or Series Transform Switch



- a. set the slide switch at "parallel" position to make the product in parallel.
- b. Set the switch at "series" position to make products in series, but the slide switch of the last product has to set at "parallel" position.

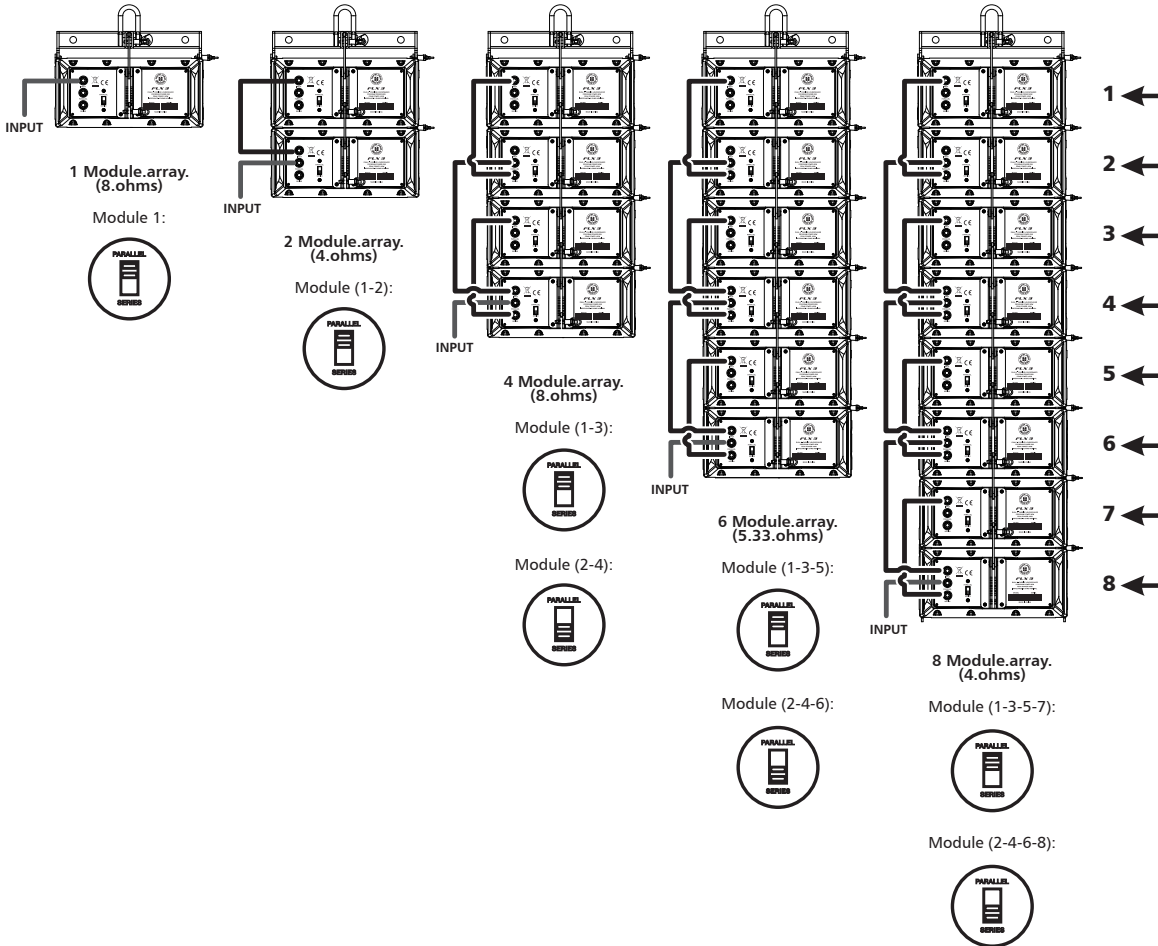
FLX 5

- 1) INPUT: Receive the power coming from an external power amplifier. (SPK +1/-1 connected; +2/-2 not connected).
- 2) THRU: Power output for satellite speaker, under passive crossover filtered at 180 Hz. (SPK +1/-1 connected; +2/-2 not connected).



Satellite Down Connection (FLX 3)

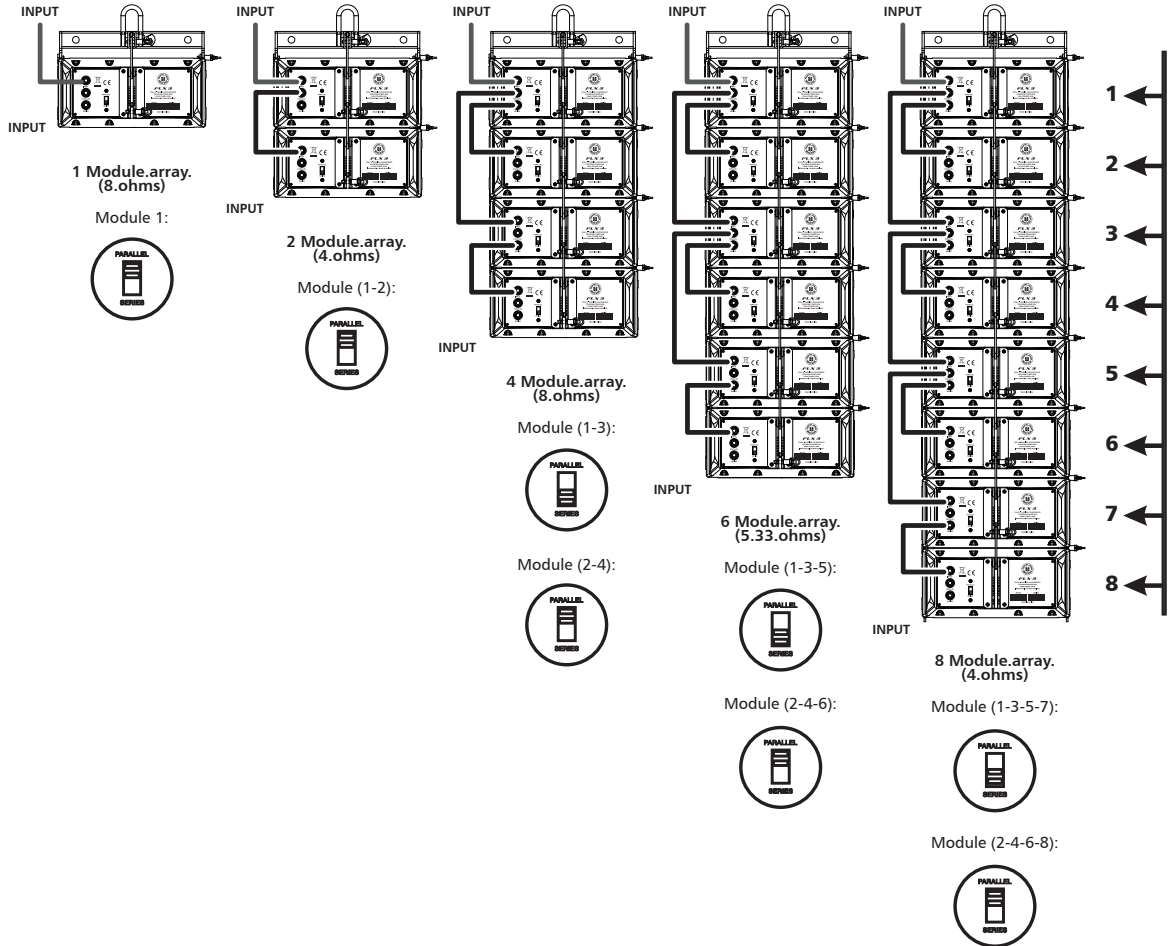
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- Power output for satellite speaker down connection

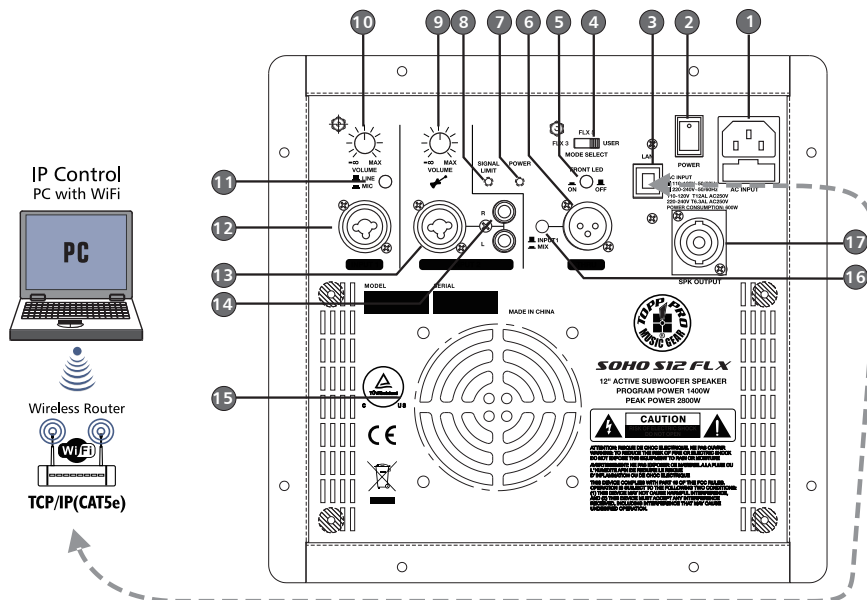
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Satellite Up Connection (FLX 3)



- Power output for satellite speaker UP connection

Subwoofer Back Panel Description



- (1) AC POWER SOCKET WITH MAIN FUSE.
- (2) ON-OFF MAIN POWER SWITCH.
- (3) IP CONTROL
- (4) Preset Selector: FLX 3 / FLX 5 / User (Custom Sound)
 - FLX 3:** Allow use this subwoofer with the 2 speaker satellite. Defaults Factory preset
 - FLX 5:** Allow use this subwoofer with the 2 speaker satellite. Defaults Factory preset
 - User:** Adjusts the Equalization according to the convenience of the user, depending on the acoustics of the place and the implementation of the system. This setting can be performed by a PC via LAN port, using a router for internet. This "preset" comes from factory set with the parameters of the 2*FLX 3, after making the necessary changes you can be save into the system.
- (5) SWITCH FOR FRONT LED ON OR OFF
- (6) THRU OUTPUT ON XLR CONNECTOR

This is a male XLR-type connector that produces exactly the same signal that is connected to the main input jack or a mix of input1 and input2.
- (7) POWER. GREEN LED, INDICATE ON STATUS.
- (8) SIGNAL / LIMIT, RED LED, INDICATE ON STATUS.
- (9) Input 2 Volume Control
- (10) Input 1 Volume Control
- (11) LINE / MIC SWITCH(CHANNEL INPUT1 ONLY)
- (12) XLR AND 1/4" COMBO INPUT1

INPUT1 may accept a MIC or line-level signal via XLR or line-level signal via TRS 1/4" cable. Be aware of the position of the MIC / line switch (11).
- (13) XLR AND 1/4" COMBO INPUT2

INPUT2 may accept Hi-Z sources (such as guitars) via the TRS 1/4" input, or line-level signal via XLR.

NEVER connect the output of an amplifier directly to the input of the loudspeaker. This could damage the input circuitry of the active loudspeaker.
- (14) RCA INPUTS(INPUT2 ONLY).
- (15) CONVECTION FAN
- (16) INPUT1 / MIX SWITCH (THRU OUTPUT)

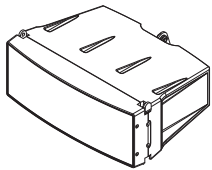
This switch allows you to choose whether only the input1 signal is sent out to the next loudspeaker(switch out-input1) or mix of the input1 and input2 signals are sent out to the next loudspeaker(switch in-Mix).
- (17) SPK connector to satellite: Use pins + 1 positive / -1 negative

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Technical Specifications



Model	FLX-3
System Type	3" 2-way Passive System
Output Power	40W Continuous , 80W Program
Sensitivity (1W/1M)	90dB
Maximum SPL @ 1m	106dB Max.(calauated)
Frequency Response	100Hz-20kHz (-10dB)
Impedance	8 ohms
Transducer Low	2 x 3" Woofer , 0.75" (19mm) Voice Coil
Transducer High	3xΦ13mm (V.C) Neodymium Tweeter
Crossover Frequency	2.5kHz
Dispersion(-6dB)	100° Horizontal, 10° Vertical (one module)
Attachment Points	Adjustable Rigging System, Vertical Splay Adjustable in 0° -1.5° - 3.0° - 4.5° - 6.0° - 8.0° - 10° Increments from 0°-10°
Connectors	Parallel or Series φ6.3mm Socket / Selection Switch
Enclosure Construction	Polypropylene Enclosure , steel Metal Grille with foam
Fittings information	Steel Stirrup Material , 3Flying Points
Dimensions (HxWxD)	(W)265mm*(H)124mm*(D)195mm ; (W)10.43" * (H)4.88" * (D)7.68"
Net Weight	approach 3.2kg / 7.05 lbs

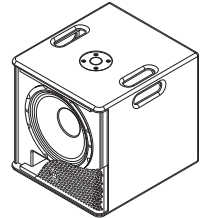


Model	FLX-5
System Type	5" 2-way Passive System
Output Power	120W Continuous , 240W Program
Sensitivity (1W/1M)	95dB
Maximum SPL @ 1m	115.5dB Max.(calauated)
Frequency Response	90Hz-20kHz (-10dB)
Impedance	8 ohms
Transducer Low	2x 5" Woofer , 1.18" (30mm) Voice Coil
Transducer High	1x 1" Tweeter , 1" (25mm)Voice Coil
Crossover Frequency	2.0kHz
Dispersion(-6dB)	100° Horizontal, 12° Vertical (one module)
Attachment Points	Adjustable Rigging System, Vertical Splay Adjustable in 1.5° Increments from 0°-12°
Connectors	2 x SPK4 Style
Enclosure Construction	Polypropylene enclouse with side handles, steel Grille with foam
Fittings information	Steel Stirrup Material , 3Flying Points
Dimensions (HxWxD)	(W)430mm*(H)161mm*(D)304mm ; (W)16.93" * (H)6.33" * (D)11.96"
Net Weight	approach 8.0kg / 17.63 lbs

Technical Specifications

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Active Subwoofer	SOHO S12 FLX
Subwoofer	1 x 12", φ320mm-2.5" Voice Coin
Frequency response -6 dB	40Hz-500Hz
Total amplifier power	700 W Continuous /1400 W Program/2800 W Peak Class-D@4ohms
Amplifier, subwoofer	350 W Continuous /700 W Program/1400 W Peak Class-D@4ohms
Amplifier, satellite / mid! high unit	350 W Continuous /700 W Program/1400 W Peak Class-D@4ohms
Axial sensitivity 1W@1m	96dB / 130dB Max
Electronic Protections	Thermal DC / Overload / Digital Compressor / Limit
Cooling	Temperature-controlled fan
Connections	Input: 2 Combo - XLR 1/4", 1 RCA in L&R Output: SPK Satellite / XLR Link
External Controls	Volume Control / Switch for Input sens. / Swtich for mode selector / Power ON with Green LED / Limiter with Red LED / Ground Lift / IP Control
Power Supply	115V / 230V Switchable
Enclosure Construction	Plywood cabinet, resistant black paint, metal grille with foam, rubber feet, handles
Mounting	one metal standard pole-mount
Dimensions (W x H x D)	430 x 450 x 480 mm (16.93" x 17.72" x 18.90")
Net Weight	20.51 kg / 45.22 lbs.



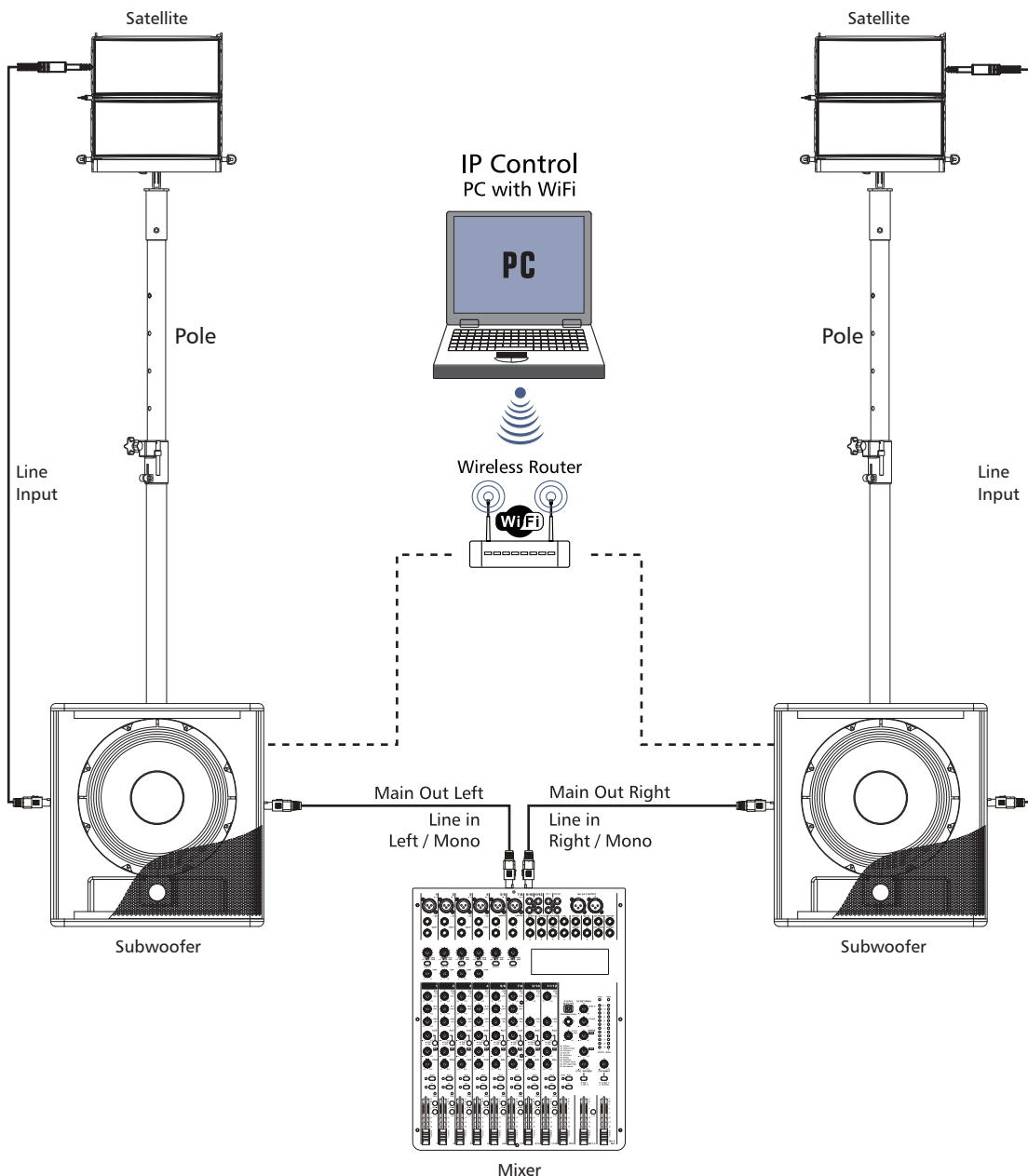
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System Connection Plate

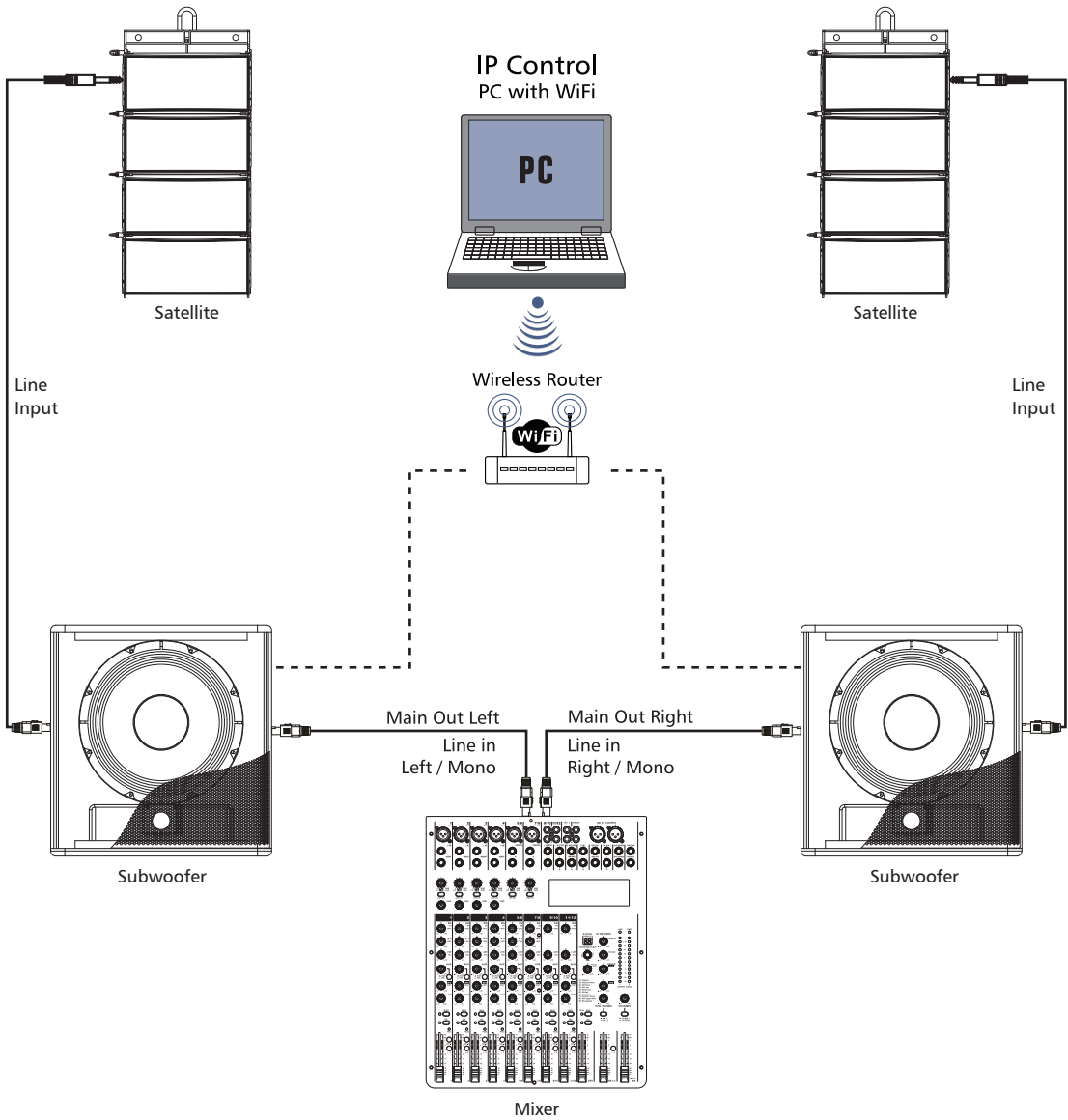
Make your initial connections with all the equipment powered off, and ensure that all the main volume controls are turned completely down.

Two Active Subwoofers & Two Passive Satellite Speakers

- 1) Connect one side of the signal cable to the output of your mixer (left / right) with a TRS or XLR connector and the other side of the cable to the line input (combo) in the active subwoofer (with a TRS to XLR connector). Then connect the speakon cable from the output of power in the Subwoofer to the satellites input.
- 2) Complete other connections as illustrated.
- 3) Turn on your mixer first, then the stereo power amplifier.
- 4) Turn up the volume controls of your amplifier to about 70%.
- 5) Use PFL function to get the proper input level for the mixer, and adjust the Main Mix Level control to manipulate the output level.
- 6) After using, turn off your stereo power amplifier first, then the mixer.



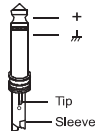
System Connection Plate



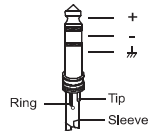
Wire Connections

Either the 1/4" TRS phone jack or XLR connector can be wired in balanced and unbalanced modes, which will be determined by the actual application status, please wire your system as the following wiring examples:

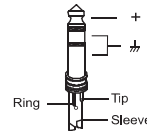
For 1/4" Phone jack



TS Type Unbalanced

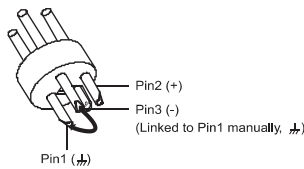


TRS Type Balanced

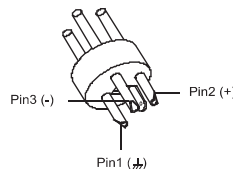


TRS Type Unbalanced

For XLR connector



XLR Type Unbalanced



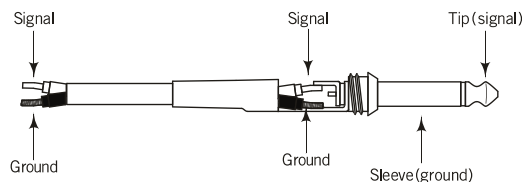
XLR Type Balanced

The series speaker connections are made via the rear panel 1/4" and/or Speakon connectors for easy interface with industry standard cables. Standard, unshielded speaker wire (available at your local pro audio or music store), with either 1/4" phone or Speakon connectors and wire gauge of 12-14 AWG is recommended.

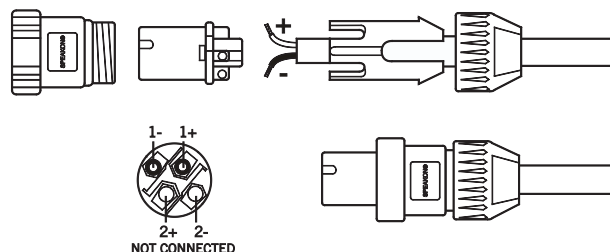
If your amplifier uses binding posts you can use speaker cables with banana connectors, but be sure to pay attention to the +/- polarity when making the connections. Make sure that the + terminal of the speaker, or banana connector, is connected to the + terminal of the power amplifier, and that the - terminal of the speaker, or banana connector, is connected to the - terminal of the power amplifier. It is important that your PA system is connected in-phase, otherwise you will not have the proper low-end response and stereo image.

Use the following diagrams below to ensure proper connections when wiring your system:

Unbalanced 1/4" Connector



Speakon® Wiring Guide



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Guarantee

Topp Pro guarantees the normal operation of the product against any defect of manufacture and / or vice of material, by the term of (12) months, counted as of the date of purchase on the part of the user, committing itself to repair or to change, to its election, without position some, any piece or component that will fail in normal conditions of use within the mentioned period.

This guarantee is valid if the original buyer will have to present/display this certificate properly sealed and signed by the selling house, accompanied by the corresponding invoice of purchase where it consisted the model and serial number of the acquired equipment.

The guarantee does not cover:

- Damages caused by the illegal use of the product, repair and/or nonauthorized modification conducted by people by **Topp Pro**.
- Damages caused by the connection of the equipment to other equipment different from the specified ones in the manual of use, or by bad connection to these last ones.
- Damages caused by electrical storms, blows and/or incorrect transport.
- Damages caused by excesses or falls of tension in the network or by connection to networks with a tension different from the required one by the unit.
- Damages caused by the presence of sand, acid of batteries, water, or any strange element inside the equipment.
- Deteriorations produced by the course of the time, use and/or normal wear of the unit.
- Alteration or absence of the serial number of factory of the equipment.

The repairs could only be carried out the authorized technical service by **Topp Pro**, that will inform about the term and other details into the repairs to take place according to this guarantee.

Topp Pro, will repair this unit in counted a term nongreater to 30 days as of the date of entrance of the unit to the Technical Service. In those cases in that due to the particularity of the spare part, outside necessary their import, the repair time and the viability of the same one will be subject to the effective norms for the import of parts, in which case one will inquire to the user about the term and possibility into repair.

With the object of its correct operation, and of the validity of this one guarantee, this product will have to be installed and to be used according to the instructions that are detailed in the manual associate or the package of the product.

This unit will be able to appear for its repair, next to the invoice of purchase (or any other proof where the date of purchase consists), to its authorized distributor **Topp Pro** or an authorized technical center on watch by **Topp Pro**.

Exclusion of damages:

THE RESPONSABILITY OF TOPP PRO BY ANY DEFECTIVE PRODUCT IS LIMITED THE REPAIR OR THE REPLACEMENT OF HE HIMSELF, TO TOPP OPTION PRO. IF WE CHOSE TO REPLACE THE PRODUCT, THE REPLACEMENT CAN BE A RECONDITIONATED UNIT. TOPP PRO WILL NOT BE RESPONSIBLE BY THE DAMAGES BASED ON THE LOST, INCONVENIENCE, LOSS OF USE, BENEFITS, LOST SAVINGS, BY THE DAMAGE TO OTHER EQUIPMENT OR OTHER ARTICLES IN THE USE SITE, OR BY ANY OTHER DAMAGE IF HE IS FORTUITOUS, CONSEQUENT OR OF ANOTHER TYPE, ALTHOUGH TOPP PRO HAS BEEN NOTICED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow to the exclusion or the limitation to the fortuitous or consequent damages, so the aforesaid limitation can not be applied to you.

This guarantee gives specific legal rights him, you you can also have other right that varies of state to state.

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