

FBT X-SUB115SA

FBT XSUB115SA Active Subwoofer User Manual

Model: X-SUB115SA | Brand: FBT

1. INTRODUCTION

This manual provides essential information for the safe and effective operation of your FBT XSUB115SA Active Subwoofer. Please read this manual thoroughly before using the product to ensure proper setup, operation, and maintenance. Retain this manual for future reference.

The FBT XSUB115SA is a 15-inch bass-reflex active subwoofer designed to provide low-frequency extension, ideal for use with FBT X-LITE and X-PRO series speakers. It features a 1200W RMS Class D amplifier and a digital signal processor (DSP) with 4 presets for sound customization.

2. SAFETY INFORMATION

WARNING: To prevent fire or electric shock, do not expose this appliance to rain or moisture. Do not remove the cover. No user-serviceable parts inside. Refer servicing to qualified personnel only.

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with a dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.

- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

3. PACKAGE CONTENTS

Upon unpacking your FBT XSUB115SA, please verify that all components are present and in good condition:

- FBT XSUB115SA 15-inch Bass Reflex Subwoofer
- Power Cord (16.4 ft / 5 mt)
- User Manual (this document)

Optional accessories (not included):

- Four 100mm / 3.93" transport wheels

4. PRODUCT OVERVIEW

4.1 Key Features

- Active subwoofer with bass-reflex design
- 15mm / 0.59" birch plywood cabinet
- 15" woofer with 3" voice coil
- 1200W RMS Class D power amplifier
- 4 DSP presets for sound customization
- Frequency response: 42Hz - 120Hz
- M20 stand pole mount for satellite speaker
- Two FBT design aluminum handles

4.2 Components and Controls



Figure 4.2.1: Front view of the FBT XSUB115SA active subwoofer, showcasing its robust grille and compact design.



Figure 4.2.2: Angled view of the FBT XSUB115SA, highlighting its side handles for portability and the overall cabinet construction.



Figure 4.2.3: Detailed view of the rear control panel, showing input/output connectors, level controls, DSP preset switch, and phase reversal switch.

Rear Control Panel Description:

- **Voltage Selector:** Switch to select between 100-120V and 220-240V AC power. Ensure this matches your local power supply before connecting.
- **Power Switch:** Turns the unit on or off.
- **AC Power Input:** Connector for the supplied power cord.
- **Input Connectors (IN):** Stereo combo XLR/jack inputs for connecting audio sources.
- **Link Outputs (LINK):** Stereo XLR outputs for daisy-chaining to other subwoofers or full-range speakers.
- **HP Filter Outputs (HP FILT OUT):** Stereo XLR outputs with a high-pass filter, typically used to send a filtered signal to full-range satellite speakers.
- **Level Control (LEV):** Adjusts the overall output volume of the subwoofer.
- **Preset Switch (PRESET):** Selects one of the 4 available DSP presets.
- **Phase Reversal Switch (PHASE 0°/180°):** Reverses the phase of the subwoofer output, useful for optimizing bass response in conjunction with other speakers.
- **PRT/LMT LED Indicators:** Indicates protection (PRT) or limiter (LMT) activation.

5. SETUP

5.1 Placement

The FBT XSUB115SA is versatile and can be used in various environments. Consider the following for optimal performance:

- **Permanent Installations:** Suitable for theatres, concert halls, clubs, places of worship, conference rooms, indoor sports venues, arenas, and stadiums.

- **Live Events:** Excellent for touring, bands, and orchestras.
- **Room Acoustics:** Subwoofer placement significantly impacts bass response. Experiment with different positions within the room to find the best sound. Corner placement often provides maximum bass output, but can sometimes lead to muddiness.
- **Stability:** Ensure the subwoofer is placed on a stable, level surface to prevent vibrations and movement during operation.
- **Ventilation:** Allow adequate space around the unit for proper ventilation to prevent overheating.

5.2 Connections

Follow these steps to connect your FBT XSUB115SA:

1. **Power Connection:** Before connecting the power cord, ensure the Voltage Selector on the rear panel matches your local power supply (100-120V or 220-240V). Connect the supplied power cord to the AC Power Input on the subwoofer and then to a grounded electrical outlet.
2. **Audio Input:** Connect your audio source (e.g., mixer, audio interface) to the XLR/jack IN connectors on the rear panel. Use balanced XLR cables for best performance.
3. **Output to Satellite Speakers (Optional):** If using satellite speakers (e.g., FBT X-LITE or X-PRO series), connect the HP Filter Outputs (HP FILT OUT) of the subwoofer to the inputs of your satellite speakers. This sends a high-pass filtered signal to the satellites, allowing the subwoofer to handle the low frequencies.
4. **Daisy-Chaining (Optional):** To connect multiple subwoofers, use the Link Outputs (LINK) to send the full-range signal to the input of another subwoofer.

Always ensure all connections are secure before powering on the unit.

6. OPERATION

6.1 Powering On/Off

1. Ensure all connections are made and the Level control is set to minimum.
2. Flip the Power switch to the "ON" position. The power indicator LED will illuminate.
3. To power off, set the Level control to minimum and then flip the Power switch to the "OFF" position.

6.2 Adjusting Volume

Use the Level control knob on the rear panel to adjust the output volume of the subwoofer. Start with a low setting and gradually increase it to the desired level, ensuring the PRT/LMT indicator does not frequently illuminate, which would indicate signal clipping.

6.3 DSP Presets

The FBT XSUB115SA features a digital signal processor with 4 presets, allowing extensive customization of low frequencies. Use the Preset switch to cycle through the available options. Each preset may offer different frequency responses or crossover points optimized for various applications or speaker combinations.

Refer to the specific preset descriptions in the full technical manual (if available) for detailed information on each preset's characteristics.

6.4 Phase Reversal

The Phase 0°/180° switch allows you to reverse the phase of the subwoofer's output. This is crucial for proper integration with full-range speakers. In some setups, reversing the phase can improve the overall bass response and clarity by ensuring the subwoofer's sound waves are in phase with the main speakers at the listening position. Experiment with both settings to determine which provides the most coherent and impactful bass.

7. MAINTENANCE

- **Cleaning:** Clean the cabinet with a dry, soft cloth. Do not use abrasive cleaners, waxes, or solvents.
- **Ventilation:** Ensure ventilation openings are clear of dust and debris. Periodically check and clean if necessary.
- **Storage:** If storing the unit for an extended period, disconnect it from power and store it in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Inspection:** Periodically inspect the power cord and all cables for any signs of damage. Replace damaged cables immediately.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No sound output	Power not connected or unit off	Check power connection and switch.
	Input signal too low or absent	Verify audio source and input signal.
	Level control set to minimum	Increase Level control.
	Damaged cable	Test with a different cable.
Distorted sound	Input signal too high (clipping)	Reduce input signal level or subwoofer Level control. Check PRT/LMT LED.
	Subwoofer placed too close to a wall/corner	Adjust subwoofer placement.
	Damaged speaker component	Contact qualified service personnel.
Weak or muddy bass	Incorrect phase setting	Toggle the Phase 0°/180° switch.
	Subwoofer placement	Experiment with different placement locations.
	DSP preset not optimal	Try different DSP presets.

If the problem persists after attempting these solutions, please contact FBT customer support or a qualified service technician.

9. SPECIFICATIONS

Feature	Detail
System Type	Bass Reflex
Woofer Size	15-inch (380mm) with 3-inch voice coil
Amplifier Type	Class D
Amplifier Power (RMS)	1200 Watts
Frequency Response (-6dB)	42Hz - 120Hz
Maximum SPL Peak	135dB (half space)
DSP Presets	4
Input Impedance	22 kOhm
Input Connectors	Stereo Combo XLR/Jack IN, Stereo XLR LINK, Stereo XLR HP Filter OUT

Feature	Detail
Dispersion	Omnidirectional
AC Power Requirement	600 Watts
Enclosure Material	15mm (0.59 inch) Birch Plywood
Grille	Steel with powder coat black paint finish
Net Dimensions (WxHxD)	17.91 x 23.07 x 22.44 inches (455 x 586 x 570 mm)
Net Weight	66.13 lbs (30 Kg)
Power Cord Length	16.4 ft (5 mt)
Pole Mount	M20 stand adapter

10. WARRANTY AND SUPPORT

10.1 Warranty Information

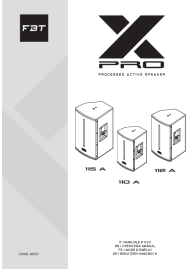
The FBT XSUB115SA comes with a limited warranty. Please refer to the warranty card included with your product or visit the official FBT website for detailed terms and conditions regarding warranty coverage, duration, and claims procedures. *Keep your proof of purchase for warranty validation.*

10.2 Customer Support

For technical assistance, service, or spare parts, please contact your authorized FBT dealer or distributor. You can also visit the official FBT website for support resources, FAQs, and contact information.
Official FBT Website: www.fbt.it

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Related Documents - X-SUB115SA

	<p>FBT X-PRO Series Active Loudspeakers - Operating Manual</p> <p>Comprehensive operating manual for FBT X-PRO Series active loudspeakers (110 A, 112 A, 115 A). Features include Bluetooth 5.0, 3-channel mixer, DSP, and high-performance Class D amplification. Learn about installation, safety, and technical specifications.</p>
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	<p>FBT HiMaxX 40a & 40: Professional Sound Reinforcement Monitors - User Manual</p> <p>Comprehensive user manual for FBT HiMaxX 40a and HiMaxX 40 active and passive sound reinforcement monitors. Covers safety instructions, connections, technical specifications, diagrams, and mounting. Features detailed descriptions of controls, diagrams, and performance data.</p>
	<p>FBT Horizon VHA 118SND/118SN/118.2SA/118S Processed Active Subwoofer Operating Manual</p> <p>This manual provides comprehensive operating instructions and technical specifications for the FBT Horizon series of processed active subwoofers, including models VHA 118SND, VHA 118SN, VHA 118.2SA, and VHA 118S. It covers features, connections, installation, presets, and network control via the INFINITO System Management Suite.</p>
	<p>FBT Audio Equipment Safety Precautions and Operating Guidelines</p> <p>Essential safety precautions, warnings, and operating guidelines for FBT audio equipment. Learn how to safely install, use, and maintain your FBT products.</p>
	<p>FBT LIGHT-Series Distribution Board for Heat Pumps - User Manual & Technical Data</p> <p>Comprehensive user manual and technical datasheet for the FBT LIGHT-Series distribution board designed for heat pumps. Includes installation, operation, safety, and technical specifications for surge protection and all-current sensitive RCDs.</p>
	<p>FBT HORIZON VHA Series: VHA 406A & VHA 112SA Loudspeaker System Manual</p> <p>Comprehensive technical manual for the FBT HORIZON VHA series audio systems, detailing the VHA 406A loudspeaker and VHA 112SA subwoofer, including features, controls, installation guides, and technical specifications.</p>