

LOSUB-15A

Active Subwoofer Cabinet

Item ref: 178.135UK

User Manual



Version 1.0



Caution: Please read this manual carefully before operating
Damage caused by misuse is not covered by the warranty

Introduction

Thank you for choosing the LOSUB-15A active subwoofer as part of your sound system. This product is designed to enhance a full-range sound system with powerful sub-frequencies and transients. Please read this manual to achieve optimum performance from your sub cabinet and avoid damage through misuse.

Package Contents

- LOSUB-15A active subwoofer
- Mains lead(s)

If you find any part is missing or the product has arrived with any problems, contact your retailer at once. This product contains no user-serviceable parts, so make no attempt to try to fix or modify this item yourself as this will invalidate the warranty. We recommend you keep the original package and proof of purchase for any possible replacement or return issues.

Warning

To prevent the risk of fire or electric shock, do not expose any of the components to rain or moisture. Avoid impact to any of the components.
No user serviceable parts inside - refer servicing to qualified service personnel.

Safety

- Please observe the following warning conventions



**CAUTION: RISK OF ELECTRIC SHOCK
DO NOT OPEN**



This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit



This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

- Ensure that the correct mains lead is used with adequate current rating and mains voltage is as stated on the unit
- Avoid ingress of water or particles into any part of the housing. If liquids are spilled on the cabinet, stop using immediately, allow the unit to dry out and have checked by qualified personnel before further use

 **Warning: this unit must be earthed**

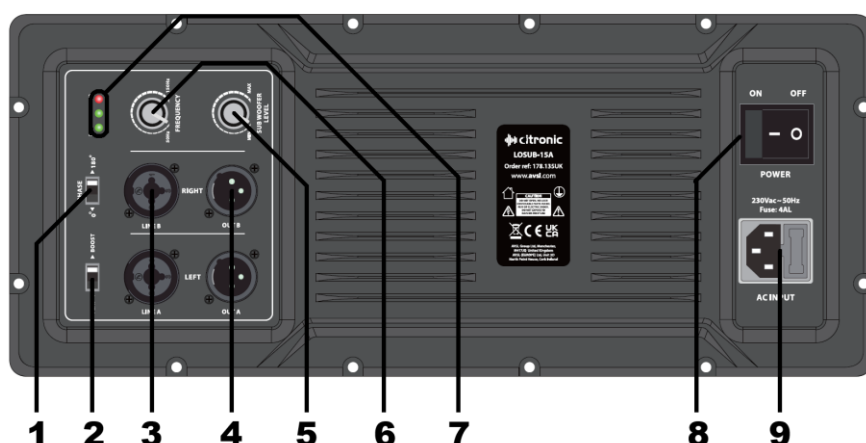
Placement

- Keep the electronic parts out of direct sunlight and away from heat sources.
- Position the cabinet on a stable surface that is adequate to support the weight of the product.
- Allow adequate space for cooling and access to controls and connections at the rear of the cabinet.
- Keep the cabinet away from damp or dusty environments.

Cleaning

- Use a soft dry or slightly damp cloth to clean surfaces of the cabinet
- A soft brush can be used to clear debris from controls and connections without damaging them
- To avoid damage, do not use solvents to clean any parts of the cabinet.

Rear panel layout



1. PHASE switch: 0° / 180°
2. BOOST switch: OFF / BOOST
3. LINE A & LINE B inputs: Combo XLR/jack
4. LINE A & LINE B outputs: XLR
5. SUBWOOFER LEVEL control
6. Crossover cutoff FREQUENCY control: 50 - 150Hz
7. Status LEDs: POWER / SIG / CLIP
8. Power on/off switch
9. IEC mains inlet & fuse holder

Setting up

Position your LOSUB-15A active subwoofer on a stable surface capable of supporting the load and vibrations from the cabinet. For maximum sound delivery, position with the back close to a solid wall or in a corner of the room.

If possible, keep the cabinet as far away as possible from any microphones that are connected to the sound system. This is to avoid feedback (howling or booming caused by the microphone "hearing" itself amplified). Also, keep microphone stands away from the subwoofer to avoid vibrations being transferred through to the mics.

If a single LOSUB-15A active subwoofer is to be used with a stereo pair of active full-range speakers, connect both Left and Right outputs from the mixer into the Left + Right inputs of the LOSUB-15A subwoofer (3). Connect the Left + Right OUTPUT XLRs (4) to each full range speaker to operate these in stereo.

Depending on the type of audio material, the sub-bass frequencies may be most effective within certain frequencies. For this purpose, the LOSUB-15A has a low pass filter with a variable FREQUENCY (7), which determines the cutoff point at which the higher frequencies are filtered out. Lower settings produce a very deep effect, whereas higher settings introduce more punch and clarity.

If there are Left + Right LOSUB-15A active subwoofers in the sound system, use either Left or Right inputs and link just this one side to full-range or top cabinets.

When all signal connections are made, connect the power lead provided (or equivalent) from the mains power supply to the IEC inlet on the LOSUB-15A subwoofer (9). Ensure that the mains voltage is as indicated on the rear panel of the LOSUB-15A active subwoofer.

Operation

With the level controls turned fully down (5, 6), switch on power to the LOSUB-15A subwoofer (8). Ensure that a signal is playing to the input(s) and gradually increase the relative volume control. There are 3 status LEDs (7). The POWER LED stays lit to show that the unit is powered up. The SIG LED lights when a signal is present, and the CLIP LED should only light briefly on the loudest parts of audio (usually beats of a kick drum or other loud transients). If this LED lights for longer periods, it is advised to reduce the output level to avoid overload.

Where 2 or more subwoofers are used in the same space, if they are facing each other, the signals can cancel each other out, in this case, one of the subwoofers would need to be "phase-reversed" by switching the PHASE button (1) to the opposite setting of the other subwoofer. This phase switch can also be used to help to mitigate feedback or "lost" sub output in a room through experimenting with either setting.

Increasing the SUBWOOFER LEVEL control (5) will increase the sub-bass content of the sound system. Since the higher frequencies will be filtered out, this removes a lot of the input signal, and it may be necessary to increase the input level to compensate for reduced level. For this purpose, there is a BOOST switch (2), which may need to be enabled to provide enough input signal for useful sub-bass.

Specifications

Power supply	230Vac, 50Hz (IEC)
Construction	MDF enclosure with polyurea finish
Hardware	Routed handles & 35mm pole mount socket
Amplifier: construction	Class-D (fixed DSP)
Inputs	2 x balanced XLR / 6.3mm jack
Outputs	2 x balanced XLR
Controls	Flat/boost, phase switch, frequency, subwoofer level
Driver	380mmØ (15") sub woofer
Voice coil	75mmØ (3")
Magnet	2.835kg (100oz)
Output power rms	600W
Output power max.	1200W
Frequency response	40 - 120Hz
Sensitivity @ 1W/1m	96dB
SPL max.	127dB
Dimensions	550 x 480 x 360mm
Weight	24kg



Disposal: The "Crossed Wheelie Bin" symbol on the product means that the product is classed as Electrical or Electronic equipment and should not be disposed with other household or commercial waste at the end of its useful life. The goods must be disposed of according to your local council guidelines.

The full text of the EU declaration of conformity for 178.135UK is available at the following internet address:
<http://www.avsl.com/assets/exportdoc/1/7/178135UK%20CE.pdf>

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