

# OWNER'S MANUAL



**ACTIVE SUBWOOFER LBE 12 A**



Thank you for choosing the FAR LBE 12 A subwoofer.

In order to obtain the best performance from this active subwoofer, please be sure to read this owner's manual and use your speaker only in accordance with its instruction.

## CONTENTS

- Applications 2
- Installation 3
- Technical description 4
- Technical drawing 6
- Fine frequency tuning 7
- Limiter function 8
- Rear panel level 8
- Troubleshooting 9

# LBE 12 A

## Applications

---

Video and film post production

Music industry

All mid field and far field applications



Thank you for choosing a FAR active subwoofer. This unit is an exceptional product that will give you years of superb performance.

### Do Not Open The Cabinet.

Do not attempt to service this unit. Tampering with internal components can cause fire or shock, and may void your guarantee. If water or small objects enter the unit, unplug the power cord immediately and consult an authorized FAR dealer. Using the unit under such condition may cause a fire or shock hazard.

### Installation

#### Mains

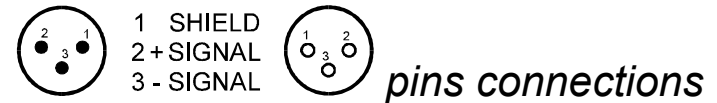
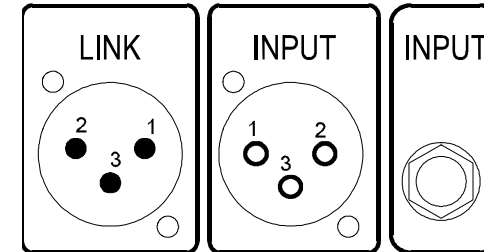
Attach the plug to the IEC socket. And connect it to the mains.

A green LED on front face indicates when the power is switched on.

#### Signal

The input signal is available in XRL or Jack plugs, both are electronically symmetric inputs.

The link functions the same as both of the inputs. Use the link to connect one speaker to another



- Maximum length of the link cables
  - symmetric :15 meters
  - asymmetric : 8 meters
- Maximum linked LBE 12 A 's : 4

## TECHNICAL DESCRIPTION

### **LBE 12 A**

<b>Sensitivity</b>	<b>dB SPL</b>	
--------------------	---------------	--

Maximum pressure level (2 cabinets @ 1 m)

115

<b>Frequency Range</b>	<b>Hz</b>	
------------------------	-----------	--

± 3 dB

35-80 / 120

<b>Active filter</b>		
----------------------	--	--

Low pass section

Crossover frequency

80/120 Hz 24 dB/Octave

Limiter

(on/off) +2dB

<b>Components</b>		
-------------------	--	--

Woofer

25cm/10 inch

#### **Amplifier Specifications**

<b>Power</b>	<b>W</b>	
--------------	----------	--

Peak Power

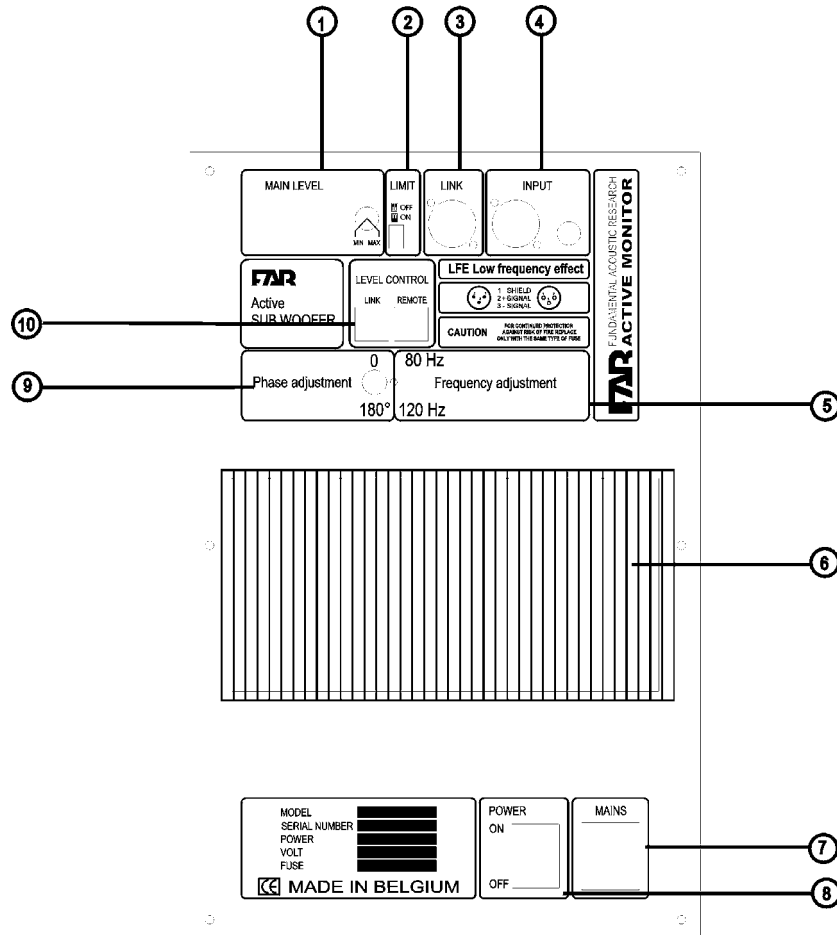
260

Nominal Power

170

<b>Characteristics</b>		
Power bandwidth		20 - 25000 Hz
Slew rate		35 V/ $\mu$ s
SN ratio		> 100 dB
<b>Distortion</b>		
Intermodulation		0,01%
Total		0,05%
<b>Input</b>		
Sensitivity		0 dB
Impedance		> 10 kOhm
<b>Connectors</b>		
Input (symmetric)		XLR & Jack
Link		XLR
Remote		RJ-45
<b>External dimensions</b>		
	<b>mm</b>	
Height		600
Width		390
Depth		450
<b>Weight</b>		
	<b>kg</b>	<b>35</b>

## TECHNICAL DRAWING



### LEGEND

1. Main level tuning
2. Limiter function
3. Link
4. Input XLR
5. Frequency adjustment
6. Cooling system
7. Mains
8. Power
9. Phase adjustment
10. Input/output for level remote control

## FINE FREQUENCY TUNING

For maximum efficiency use the switches on the rear panel. One for the phase adjustment (Figure 1) and one for the frequency adjustment (Figure 2).

### Phase adjustment

The switch can be set to one of the two positions for an optimum placement in your room.

Positions available: 0-180°.

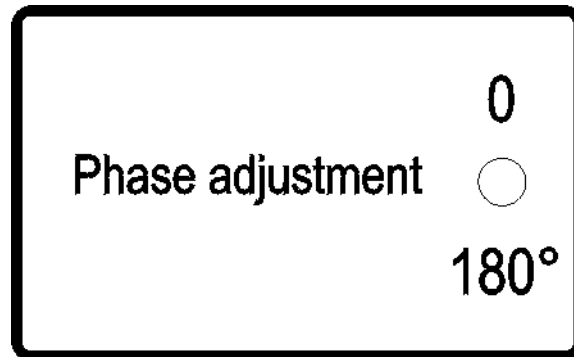


Figure 1 : phase adjustment

### Frequency adjustment

The switch can be set to one of the two positions for an optimum placement in your room.

Positions available : 80-120 Hz.

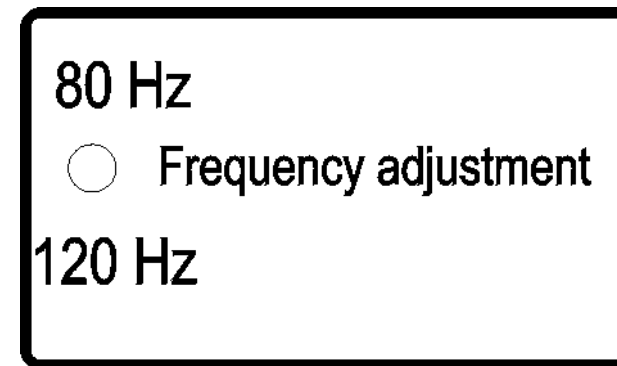


Figure 2: frequency adjustment

## Limiter function

The LBE 12 A has a built in limiter developed to protect the drivers against harmful signals. The limiter acts directly on the input signal by decreasing it when it reaches the clipping level.

To activate the limiter turn it to the on or off position using the dip switch on the rear panel.

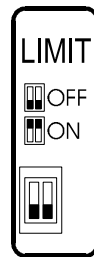


Figure 3: Limiter switch

The overload LED indicates whether or not the limiter is in operation.

LED comes :

- Red when the limiter is not in use.
- Orange when the limiter is in use.

## Rear panel level.

Adjust the sound level by turning the main level knob to the desired position.

The range of tuning is from 0 (maximum attenuation) to max (no attenuation).

Adjust the knob (Figure4) to the necessary to attain a perfect stereo image.

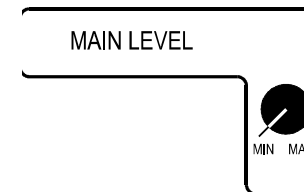


Figure 4 : main level control





## TROUBLESHOOTING

This section is designed to trouble free technical operation. Most of the problems encountered by the users are due to operating mistakes .Please check this list first for a possible solution. If the problem persists, consult your local FAR distributor or EMAIL to : [support@far-audio.com](mailto:support@far-audio.com)

### **Your problem is**

### **Make sure that**

No light comes on when the power cord is plugged into AC outlet.	<ul style="list-style-type: none"> <li>• The unit is plugged into a live outlet</li> </ul>
No sound is heard	<ul style="list-style-type: none"> <li>• That the level control at the rear is not turned to the minimum</li> <li>• That the remote control is plugged in the right way</li> <li>• That your audio connection is properly done</li> <li>• That the remote control is not on mute position or – 80 dB position.</li> </ul>
Sound is heard stronger from one side.	<ul style="list-style-type: none"> <li>• That the remote control is not on one side only</li> <li>• That both level controls on the rear are correctly turned on the same position.</li> </ul>
When listening to stereo the left and right sounds are reversed	<ul style="list-style-type: none"> <li>• That left and right wires are connected the same way</li> </ul>
When listening to surround (more than 12 surround both sides) the sound is less powerful	<ul style="list-style-type: none"> <li>• That the link connection between each speaker is properly done</li> <li>• That you didn't connect more than six speakers on the link connector.</li> </ul>
Too much low frequencies	<ul style="list-style-type: none"> <li>• That you have checked the low frequency deep switches adjustments</li> <li>• That the position of your speakers is not too close to the corners</li> </ul>
Not enough low frequencies	<ul style="list-style-type: none"> <li>• .That your connections are not out of phase.</li> <li>• That you have checked the low frequency deep switches adjustments</li> </ul>

