



MODEL: *LF12BP*

Product manual

05/19

1: Introduction



Thank you for your purchase of the LF12BP bass loudspeaker, which has been designed and engineered to provide many years of reliable service when correctly installed within an audio system.

The LF12BP is shipped in a heavy-duty double-walled cardboard packing container, which provides a good level of transit protection.

Upon unpacking please inspect the loudspeaker for any signs of transit damage, and in the unlikely event of this happening inform your Hush Audio dealer immediately. Claims for damage must be made to the shipping company within 2 days of receiving the product.

The LF12BP has been developed to provide effective low frequency support within an audio system whilst maintaining a compact format. Its dual bandpass design provides high efficiency over a specific frequency range.

It can be used in singles to augment bass output in a background music system or in multiples for higher output audio systems.

Constructed from 18mm birch plywood, the LF12BP includes a robust low frequency 12" drive unit featuring a 3" CCAW voice coil.

2: Correct installation and operating procedure

- The LF12BP is designed for floor mounting, however it can also be flown using 4 x M8 forged eyebolts. If flying, please ensure that the all fixings and supports have the correct weight loading parameters.
- Only install the loudspeaker indoors in a dry environment.
- Observe the maximum power rating and recommendations shown within the specifications (see section 5 & 6).
- This loudspeaker is designed to reinforce bass response within installed music systems.

3: Suggested installation positioning

The positioning of a subwoofer within a room can have a dramatic effect on its output level and following table describes potential output level with regards to this.

In a corner	Maximum output
Against a wall	Medium output
In the middle of the room	Lower output
Flown suspended in the middle of the room	Lowest output

Whilst it might be preferential to get the maximum output from the subwoofer, depending on the room layout phase cancellation may occur culminating in an uneven response, so some trial positioning may be required.

Suggested installation cable

The choice of installation cable can have quite an effect on a loudspeaker's performance and the overall performance of the audio system. Cable type and diameter should be taken into account to ensure that the loudspeaker performs to its best and that power is not lost in the system.

A good quality copper cable should be used to install the LF12BP and the thicker the better. Suggested diameters of cable v distance are shown in the list below

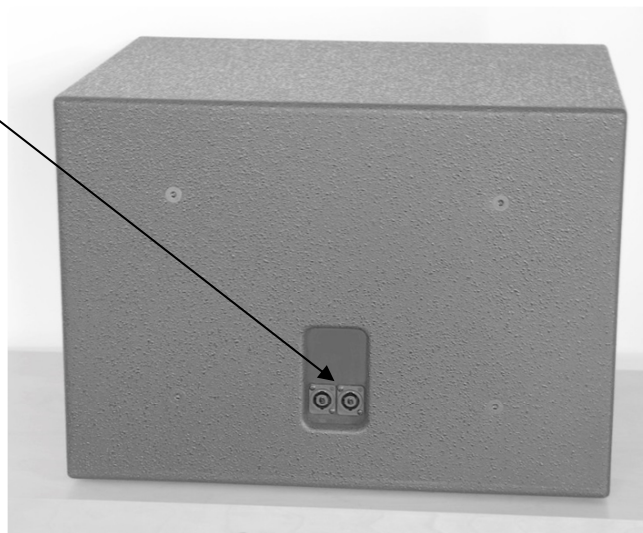
Distance	
Up to 20m	At least 2.5mm diameter per core
20m to 50m	At least 4mm diameter per core

The loudspeaker features two NL4 four pole Neutrik Speakon™ sockets

These two connectors are paralleled together and allow for linking to an additional loudspeaker

Each Speakon™ is wired in the following manner;

+1	positive input from amplifier
-1	negative input from amplifier



Please observe polarity especially if multiple loudspeakers are installed on the system

5: Specifications of LF12BP

Model number	LF12BP
Type	Subwoofer
Components	1 x 12"
Maximum power input	400w AES (using a recommend DSP settings)
Frequency response	50 Hz to 300Hz (+/- 6dB) (requires High and Low pass filtering for correct operation)
Nominal impedance	8 ohms
Relative sensitivity at 1m	97dB with 1w(2.83v) input
Maximum SPL continuous	123dB
Dispersion	N/A
Dimensions	500w – 380h – 400d (mm)
Fixings	4 x M8 flying points (rear of the cabinet)
Nett weight	20 kgs

All specifications are subject to change without notice E&OE

6: Configuring the LF12BP for use with DSP amplifier based systems

The LF12BP must be used with a system employing Digital Signal Processing, primarily to protect the loudspeaker and secondary to ensure optimum performance from the audio system.

We recommend that the following minimum processing be used,

- Depending on the program material, a high pass filter set at 40 to 45Hz with a slope of 24dB/octave.
- Low pass filter set at 120Hz or below with a slope of 24dB/octave
- Maximum input power 400w AES

7: Terms of warranty

This product is guaranteed from defects under normal use for a period of 3 years from the date of purchase.

This guarantee will be void if:

- The loudspeaker has been overdriven by excessive power or low frequency input.
- The loudspeaker has been dropped or damaged by collision or misuse.
- The loudspeaker has been installed within a damp environment.
- The loudspeaker has been used for other than intended purposes.

8: Service

In the unlikely event of the failure of this loudspeaker, it should be returned via the dealer who it was purchased from. They will then contact their local Hush Audio service centre. This unit contains no user serviceable parts.

Please keep this manual with the documentation for the system

Installation address	
Serial number(s) of LF12BP	
Installation date	

NOTES



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