



behringer 904B Voltage Controlled High Pass Filter User Guide

[Home](#) » [Behringer](#) » behringer 904B Voltage Controlled High Pass Filter User Guide 



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904B Voltage Controlled High Pass Filter User Guide



Legendary Analog High Pass VCF Module for Eurorack

Contents

- [1 Important Safety Instructions](#)
- [2 LIMITED WARRANTY](#)
- [3 Controls](#)
- [4 Power Connection](#)
- [5 Installation](#)
- [6 Specifications](#)
- [7 Other important information](#)
- [8 Documents / Resources](#)
 - [8.1 References](#)
- [9 Related Posts](#)

Important Safety Instructions

| | | |
|---|--|---|
|  | CAUTION RISK OF ELECTRIC SHOCK! DO NOT OPEN IT! |  |
|---|--|---|



Terminals marked with this symbol carry an electrical current of sufficient magnitude to constitute a risk of electric shock. Use only high-quality professional speaker cables with ¼" TS or twist-locking plugs pre-installed. All other installations or modifications should be performed only by qualified personnel.



This symbol, wherever it appears, alerts you to the presence of dangerous uninsulated voltage inside the enclosure voltage that may be sufficient to constitute a risk of shock.



This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Please read the manual.



Caution

To reduce the risk of electric shock, do not remove the top cover (or the rear section). No user-serviceable parts inside. Refer servicing to qualified personnel.



Caution

To reduce the risk of fire or electric shock, do not expose this appliance to rain and moisture. The apparatus shall not be exposed to dripping or splashing liquids and no objects filled with liquids, such as vases, shall be placed on the apparatus.



Caution

These service instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operation instructions. Repairs have to be performed by qualified service personnel.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.

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



12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus.
When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as a 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.
15. The apparatus shall be connected to a MAINS socket outlet with a protective earthing connection.
16. Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.



17. Correct disposal of this product: This symbol indicates that this product must not be disposed of with household waste, according to the WEEE Directive (2012/19/EU) and your national law. This product should be taken to a collection center licensed for the recycling of waste electrical and electronic equipment (EEE).
The mishandling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the efficient use of natural resources. For more information about where you can take your waste equipment for recycling, please contact your local city office or your household waste collection service.
18. Do not install in a confined space, such as a bookcase or similar unit.
19. Do not place naked flame sources, such as lighted candles, on the apparatus.
20. Please keep the environmental aspects of battery disposal in mind. Batteries must be disposed of at a battery collection point.

21. This apparatus may be used in tropical and moderate climates up to 45°C.

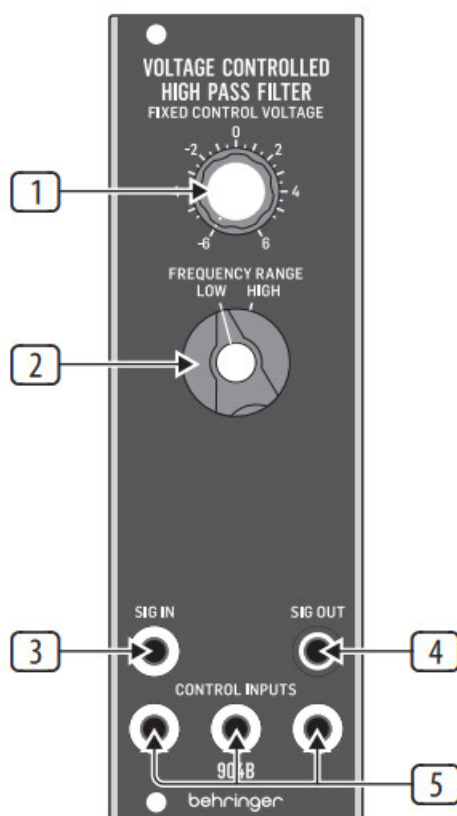
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LIMITED WARRANTY

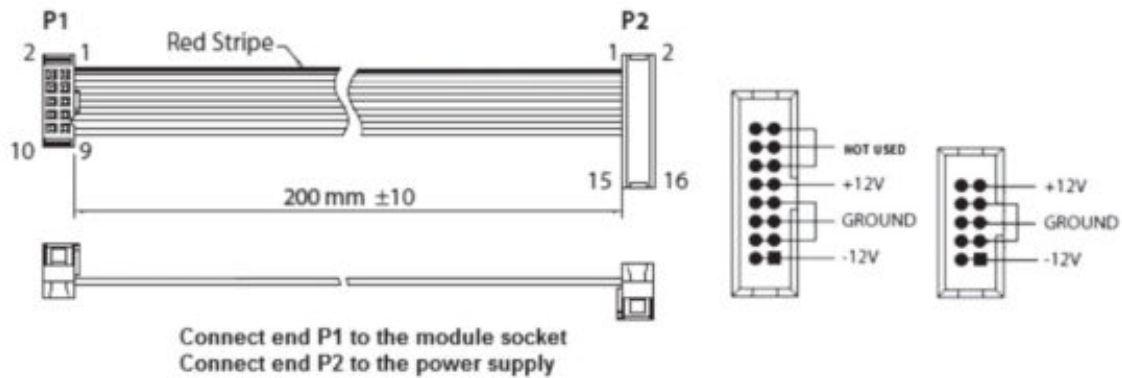
For the applicable warranty terms and conditions and additional information regarding Music Tribe's Limited Warranty, please see complete details online at musictribe.com/warranty.

Controls



1. **FIXED CONTROL VOLTAGE** – Also referred to as “cutoff frequency”, this knob manually determines the frequency below which frequencies are attenuated. The resulting frequency will depend on this knob’s setting as well as the voltage received from the control inputs.
2. **FREQUENCY RANGE** – Select between Low (4 Hz to 20 kHz) or High (10 Hz to 50 kHz) to set the frequency band in which the fixed control voltage operates.
3. **SIGNAL INPUT** – Connect the incoming signal via a 3.5 mm TS cable.
4. **SIGNAL OUTPUT** – Send the processed signal to another module via a 3.5 mm TS cable.
5. **CONTROL INPUTS** – Connect control voltage signals from other modules to affect the cutoff frequency. The sum of the voltage received doubles the frequency cutoff point for each 1 V increase.

Power Connection



The module comes with the required power cable for connecting to a standard Eurorack power supply system. Follow these steps to connect power to the module. It is easier to make these connections before the module has been mounted into a rack case.

1. Turn the power supply or rack case power off and disconnect the power cable.
2. Insert the 16-pin connector on the power cable into the socket on the power supply or rack case.
The connector has a tab that will align with the gap in the socket, so it cannot be inserted incorrectly. If the power supply does not have a keyed socket, be sure to orient pin 1 (-12 V) with the red stripe on the cable.
3. Insert the 10-pin connector into the socket on the back of the module. The connector has a tab that will align with the socket for correct orientation.
4. After both ends of the power cable have been securely attached, you may mount the module in a case and turn on the power supply.

Installation

The necessary screws are included with the module for mounting in a Eurorack case. Connect the power cable before mounting.

Depending on the rack case, there may be a series of fixed holes spaced 2 HP apart along the length of the case, or a track that allows individual threaded plates to slide along the length of the case. The free-moving threaded plates allow precise positioning of the module, but each plate should be positioned in approximate relation to the mounting holes in your module before attaching the screws.

Hold the module against the Eurorack rails so that each of the mounting holes is aligned with a threaded rail or threaded plate. Attach the screws partway to start, which will allow small adjustments to the positioning while you get them all aligned. After the final position has been established, tighten the screws down.

Specifications

| | |
|--------------------------|--|
| Signal Input | |
| Type | 3.5 mm jack, DC-coupled |
| Impedance | 33 k Ω , unbalanced |
| Maximum input level | +10 dBu |
| Signal Output | |
| Type | 3.5 mm jack, DC-coupled |
| Impedance | 620 Ω , unbalanced |
| Maximum input level | +10 dBu |
| Output noise | Typically -70 dBu, 22 Hz – 22 kHz |
| Control Inputs | |
| Type | 3 x 3.5 mm jacks, summed |
| Impedance | 100 k Ω , unbalanced |
| CV range | 1 V per octave, 12-octave range |
| Controls | |
| Fixed control voltage | \pm 6 V, summed with CV inputs |
| Frequency range selector | Low = < 4 Hz to 20 kHz, 24 dB per octave High = < 10 Hz to 50 kHz, 24 dB per octave |
| Power | |
| Dimensions | 43 x 40 x 129 mm (1.7 x 1.6 x 5.1") |
| Rack units | 8 HP |
| Weight | 0.09 kg (0.2 lbs) |

Other important information

1. Register online.

Please register your new Music Tribe equipment right after you purchase it by visiting musictribe.com. Registering your purchase using our simple online form helps us to process your repair claims more quickly and efficiently. Also, read the terms and conditions of our warranty, if applicable.

2. Malfunction. Should your

Music Tribe Authorized Reseller not be located in your vicinity, you may contact the Music Tribe Authorized Fulfiller for your country listed under “Support” at musictribe.com. Should your country not be listed, please check if your problem can be dealt with by our “Online Support” which may also be found under “Support” at musictribe.com. Alternatively, please submit an online warranty claim at musictribe.com BEFORE returning the product.

3. Power Connections.

Before plugging the unit into a power socket, please make sure you are using the correct mains voltage for your particular model. Faulty fuses must be replaced with fuses of the same type and rating without exception.



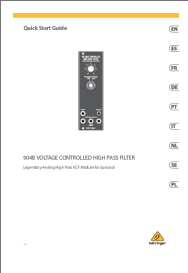
Hereby, Music Tribe declares that this product is in compliance with Directive 2014/30/EU, Directive 2011/65/EU and Amendment 2015/863/EU, Directive 2012/19/EU, Regulation 519/2012 REACH SVHC, and Directive 1907/2006/EC.

Full text of EU DoC is available at <https://community.musictribe.com/> EU Representative: Music Tribe Brands DK A/S



Address: Ib Spang Olsens Gade 17, DK – 8200 Aarhus N, Denmark



Documents / Resources

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References

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