

Behringer 1630

Behringer 1630 Bode Frequency Shifter Eurorack Module User Manual

Model: 1630

1. INTRODUCTION

This user manual provides comprehensive instructions for the Behringer 1630 Bode Frequency Shifter Eurorack Module. Please read this manual thoroughly before operating the module to ensure proper use and to maximize its capabilities within your Eurorack system.

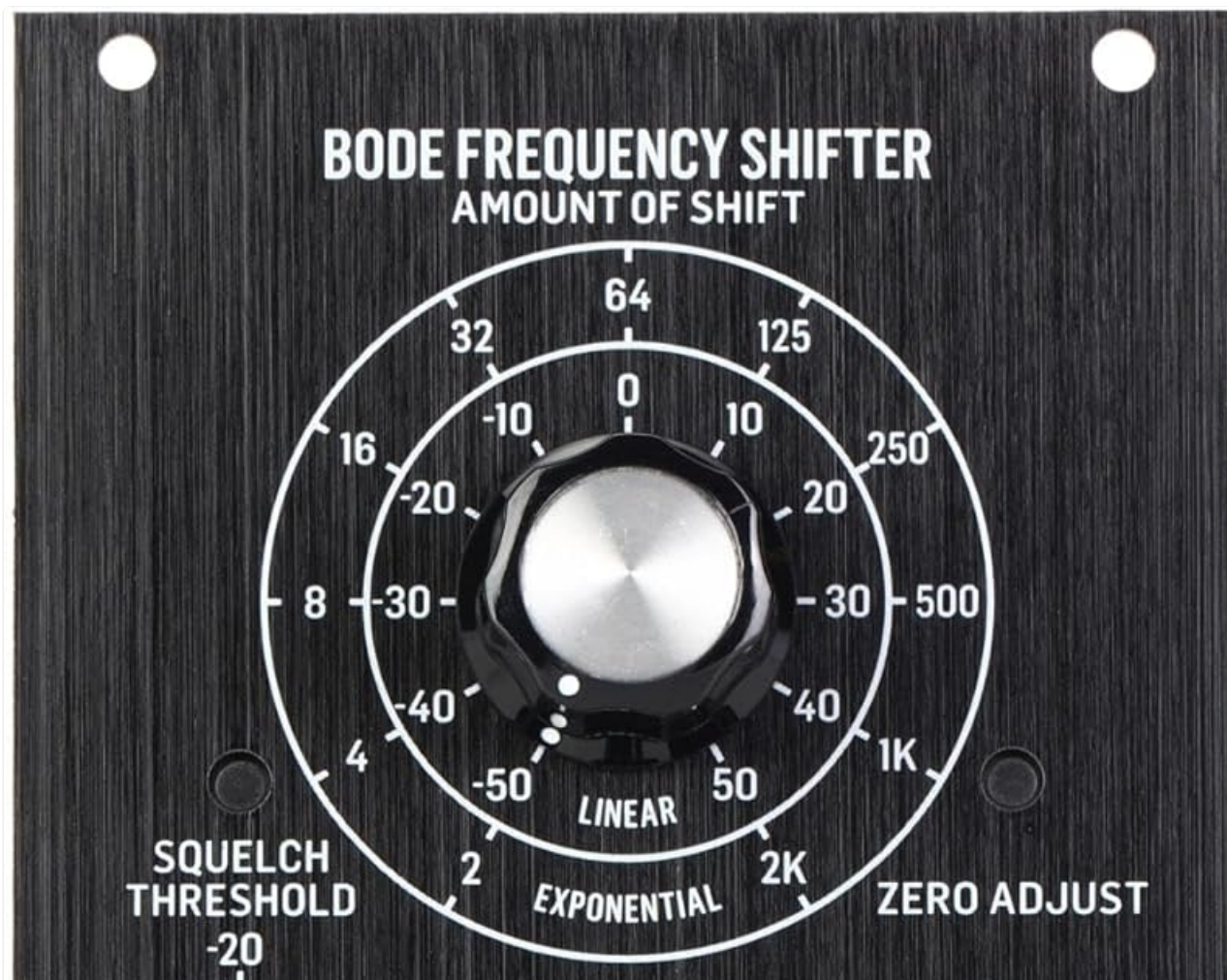




Figure 1: Front panel of the Behringer 1630 Bode Frequency Shifter Eurorack Module, showing all controls and jacks. The module features a large central 'AMOUNT OF SHIFT' knob, 'SQUELCH THRESHOLD', 'SCALE', 'ZERO ADJUST', and 'MIXTURE' knobs, along with 'SIG IN', 'CTRL 1', 'CTRL 2', 'CTRL 3', 'OUT A', 'OUT B', and 'MIX OUT' jacks.

2. SETUP

2.1 Unpacking and Inspection

Carefully remove the module from its packaging. Inspect the module for any signs of damage during transit. If any damage is found, contact your dealer immediately.

2.2 Power Requirements

The Behringer 1630 is a Eurorack module and requires a standard Eurorack power supply. Ensure your power supply can provide sufficient current for the module. Refer to your Eurorack case manual for power distribution details.

2.3 Installation

1. Turn off and unplug your Eurorack case before installation.
2. Locate an available 14HP (HP-HSC) space in your Eurorack case.
3. Connect the ribbon cable from your power supply to the module's power header. Ensure the red stripe on the ribbon cable aligns with the -12V pin on both the module and the power bus board. Incorrect connection can damage the module.
4. Mount the module into your Eurorack case using the provided screws. Do not overtighten.
5. Once securely mounted, you can reconnect power to your Eurorack case.

3. OPERATING INSTRUCTIONS

The 1630 Bode Frequency Shifter is designed to create unique sonic textures by shifting the frequency of an input signal. It can produce metallic, bell-like, or ring-modulator type sounds.

3.1 Controls and Jacks Overview

- **AMOUNT OF SHIFT:** This large central knob controls the primary frequency shift amount. It features both linear and exponential scales, allowing for precise or dramatic shifts. The range is from -50 to +50 Hz (linear) and 2 Hz to 2 kHz (exponential).
- **SQUELCH THRESHOLD:** Adjusts the input signal level at which the frequency shifting begins. Useful for noise reduction or creative gating effects. Range from -60 dB to 0 dB.
- **SCALE:** Controls the overall scaling of the frequency shift. This knob works in conjunction with the AMOUNT OF SHIFT. Range from 0 to 5K.
- **ZERO ADJUST:** Fine-tunes the zero-point of the frequency shift, ensuring accurate pitch centering when desired.
- **MIXTURE:** Blends the dry input signal with the wet (frequency-shifted) signal. 'A' represents the shifted signal, 'B' represents the dry signal.
- **SIG IN:** Audio input jack for the signal to be processed.
- **CTRL 1, CTRL 2, CTRL 3:** Control Voltage (CV) input jacks for modulating various parameters of the frequency shifter. Refer to advanced patching guides for specific assignments.
- **OUT A:** Output for the frequency-shifted signal.
- **OUT B:** Output for the dry (unprocessed) signal.
- **MIX OUT:** Output for the blended signal, as set by the MIXTURE knob.

3.2 Basic Operation

1. Connect an audio source (e.g., an oscillator, drum machine) to the **SIG IN** jack.
2. Connect **OUT A**, **OUT B**, or **MIX OUT** to an audio mixer or another module for further processing.
3. Adjust the **AMOUNT OF SHIFT** knob to hear the frequency shifting effect. Experiment with both the linear and exponential ranges.
4. Use the **MIXTURE** knob to blend the original signal with the shifted signal.
5. Fine-tune the **SQUELCH THRESHOLD** to control when the shifting engages based on input level.
6. Utilize the **SCALE** and **ZERO ADJUST** knobs for more nuanced control over the shifting characteristics.

4. MAINTENANCE

The Behringer 1630 module is designed for reliable operation with minimal maintenance. Keep the module clean and free from dust. Use a soft, dry cloth for cleaning the front panel. Do not use abrasive cleaners or solvents. Avoid exposing the module to extreme temperatures, humidity, or direct sunlight.

5. TROUBLESHOOTING

- **No Sound:**
 - Ensure the module is correctly powered and the ribbon cable is properly connected (red stripe to -12V).
 - Check all patch cable connections (SIG IN, OUT A/B/MIX OUT).
 - Verify that the input signal is present and at an appropriate level.
 - Adjust the SQUELCH THRESHOLD knob.
 - Check the MIXTURE knob setting.
- **Unexpected Sound/Noise:**
 - Ensure proper grounding of your Eurorack system.
 - Check for loose connections or damaged patch cables.
 - Adjust the SQUELCH THRESHOLD to filter out low-level noise.
 - Experiment with the ZERO ADJUST knob to eliminate unwanted artifacts.
- **Module Not Responding to CV:**
 - Verify that the CV source is active and connected to the correct CTRL input.
 - Check the CV signal range and ensure it is compatible with Eurorack standards.

6. SPECIFICATIONS

Parameter	Value
Module Type	Analog Frequency Shifter
Eurorack Size	14HP
Frequency Shift Range	+5/-5kHz
Control	Exponential/Linear
Inputs	SIG IN, CTRL 1, CTRL 2, CTRL 3
Outputs	OUT A, OUT B, MIX OUT
Item Weight	11.8 ounces (0.74 Pounds)
Product Dimensions	6.95 x 4.15 x 3.5 inches
Model Number	1630
Date First Available	June 19, 2023

7. WARRANTY INFORMATION

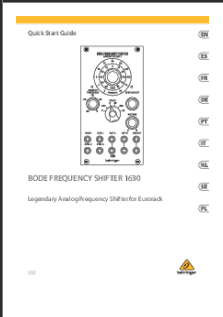
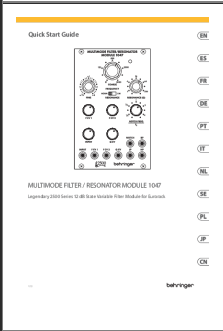
Behringer products typically come with a limited warranty. For detailed warranty terms and conditions, please refer to the official Behringer website or the warranty card included with your product. Keep your proof of purchase for warranty claims.

8. SUPPORT

For technical support, product registration, or to download the latest drivers and firmware (if applicable), please visit the official Behringer website: www.behringer.com. You may also contact Behringer customer service directly for assistance.

© 2024 Behringer. All rights reserved.

Related Documents - 1630

	<p>Behringer BODE FREQUENCY SHIFTER 1630 Quick Start Guide - Legendary Analog Frequency Shifter for Eurorack</p> <p>Quick Start Guide for the Behringer BODE FREQUENCY SHIFTER 1630, a legendary analog frequency shifter for Eurorack. Learn about its controls, specifications, safety instructions, installation, and compliance information.</p>
	<p>Behringer MULTIMODE FILTER / RESONATOR MODULE 1047 Quick Start Guide - Eurorack State Variable Filter</p> <p>Get started quickly with the Behringer MULTIMODE FILTER / RESONATOR MODULE 1047. This guide covers setup, controls, power connection, installation, specifications, and compliance for this legendary 2500 Series Eurorack filter module.</p>



FOUR PLAY
Quad Voltage Controlled
Amplifiers and Mixer Module
for Eurorack

[Behringer FOUR PLAY Quick Start Guide - Eurorack Module Setup and Controls](#)

Get started quickly with the Behringer FOUR PLAY Eurorack module. This guide covers setup, controls, power connection, and installation for this Quad Voltage Controlled Amplifiers and Mixer Module.