

## Behringer XENYX 1003B

# Behringer XENYX 1003B Premium Analog Mixer

## User Instruction Manual

### 1. INTRODUCTION

Thank you for choosing the Behringer XENYX 1003B Premium Analog Mixer. This compact and versatile mixer is designed to provide pristine sound quality with its discrete input circuitry, making it suitable for a wide range of audio applications, from home studios to live performances. It features 5 high-quality mic preamps, versatile input channels, precise 3-band EQ control, and flexible output options.

This manual provides essential information for setting up, operating, maintaining, and troubleshooting your XENYX 1003B mixer. Please read it thoroughly before using the device to ensure safe and optimal performance.

### 2. IMPORTANT SAFETY INSTRUCTIONS

To reduce the risk of electric shock, fire, and damage to the unit, please observe the following safety precautions:

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with a dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Unplug this apparatus during lightning storms or when unused for long periods of time.

- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as 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.

## 3. SETUP

### 3.1 Unpacking and Inspection

Carefully unpack your XENYX 1003B mixer and inspect it for any signs of damage that may have occurred during transit. If damage is found, contact your dealer immediately. Retain the original packing materials for future shipping or storage.

### 3.2 Power Connection

Connect the supplied power adapter to the DC INPUT jack on the rear panel of the mixer. Ensure the power switch is in the OFF position before connecting to a power outlet. The mixer operates on 9 Volts DC.



Figure 3.2.1: Rear panel of the XENYX 1003B mixer, highlighting the DC input and power switch.

### 3.3 Input Connections

The XENYX 1003B offers versatile input options:

- **Microphone Inputs (MIC 1-5):** Use balanced XLR cables for connecting microphones. These inputs feature high-quality XENYX mic preamps.
- **Line Inputs (LINE 1-5):** Use 1/4" TRS or TS cables for connecting line-level devices such as keyboards, drum machines, or other audio interfaces. Channels 3/4, 5/6, and 7/8 are stereo line inputs.
- **REC/STREAM Input (RCA):** Connect external playback devices like CD players or media players using RCA cables.



Figure 3.3.1: Top panel of the XENYX 1003B, illustrating the various input and output connection points.

## 3.4 Output Connections

Connect your monitoring and recording devices to the following outputs:

- **MAIN OUT (1/4" TRS):** These are the primary stereo outputs for connecting to power amplifiers, powered speakers, or recording interfaces.
- **MON OUT (1/4" TS):** Used for connecting to a stage monitor or a separate monitoring system.
- **FX SEND (1/4" TS):** For sending signals to external effects processors.
- **PHONES (1/4" TRS):** Connect your headphones for personal monitoring.
- **REC/STREAM OUT (RCA):** For sending the main mix to a recording device or streaming interface.

## 4. OPERATING INSTRUCTIONS

This section details the functions of the various controls on your XENYX 1003B mixer.

### 4.1 Channel Controls (Channels 1-5/6/7/8)





Figure 4.1.1 & 4.1.2: Various angled views of the XENYX 1003B, illustrating the layout of channel controls.

- **GAIN:** Adjusts the input sensitivity for the microphone or line input. Use this to set the optimal signal level without clipping.
- **EQ (HIGH, MID, LOW):** Three-band equalizer for shaping the tone of each channel.
  - **HIGH:** Adjusts frequencies around 12 kHz.
  - **MID:** Adjusts frequencies around 2.5 kHz.
  - **LOW:** Adjusts frequencies around 80 Hz.
- **PAN (Mono Channels) / BAL (Stereo Channels):** Controls the stereo position of the signal. PAN for mono channels (1-2), BAL for stereo channels (3/4, 5/6, 7/8).
- **MON:** Sends a portion of the channel signal to the MON output for stage monitoring.
- **FX:** Sends a portion of the channel signal to the FX SEND output for external effects processing.
- **LEVEL FADER:** Adjusts the overall volume level of the channel in the main mix.
- **CLIP LED:** Illuminates when the input signal is too high, indicating potential clipping. Reduce the GAIN if this LED lights up frequently.

## 4.2 Main Section Controls

- **PHANTOM POWER (+48V):** Activates phantom power for condenser microphones connected to the XLR inputs. Ensure microphones are compatible before activating.
- **MAIN FADER:** Controls the overall output level of the main stereo mix.
- **PHONES LEVEL:** Adjusts the volume of the headphone output.



- **MON SEND:** Master level control for the MON output.
- **FX SEND:** Master level control for the FX SEND output.
- **LEVEL METER:** Displays the output level of the main mix. Aim for levels that are strong but do not consistently hit the CLIP indicator.

## 4.3 Basic Operation Workflow

1. Ensure all connections are secure and the mixer is powered off.
2. Connect your microphones and line-level instruments to the appropriate inputs.
3. Connect your main speakers/amplifier to the MAIN OUTs.
4. Turn on the mixer, then turn on your amplifier/powered speakers.
5. Set all channel LEVEL faders to their lowest position. Set the MAIN FADER to 0 dB.
6. For each active channel, slowly increase the GAIN control while speaking into the microphone or playing the instrument. Observe the CLIP LED and the main LEVEL METER. Adjust GAIN so that the signal is strong but the CLIP LED only flashes occasionally on peaks.
7. Adjust the channel LEVEL faders to balance the mix.
8. Use the EQ controls to fine-tune the tone of each channel.
9. Adjust MON and FX sends as needed for monitoring and effects.
10. Adjust the MAIN FADER for the overall output volume.

## 5. MAINTENANCE

### 5.1 Cleaning

Clean the mixer regularly with a soft, dry, lint-free cloth. Do not use liquid cleaners, abrasive cleaners, or sprays, as these can damage the surface or internal components. Ensure the unit is unplugged before cleaning.

### 5.2 Storage

When not in use for extended periods, store the mixer in a cool, dry place, away from direct sunlight and extreme temperatures. It is recommended to keep the original packaging for protection during storage or transport.

## 6. TROUBLESHOOTING

Problem	Possible Cause	Solution
No sound output	Power not connected or switched on. Main fader or channel fader too low. Incorrect input/output connections. Amplifier/speakers not powered on or volume too low.	Check power connection and switch. Increase main and channel faders. Verify all cables are correctly connected to inputs and outputs. Ensure external audio equipment is powered on and volume is up.
Distorted sound	Input GAIN too high (CLIP LED flashing constantly). Output level too high. Faulty cable or equipment.	Reduce input GAIN until CLIP LED only flashes on peaks. Lower main fader or amplifier volume. Test with different cables or isolate faulty equipment.

Problem	Possible Cause	Solution
Hum or noise	Ground loop. Unbalanced cables over long distances. Interference from other electronic devices.	Use balanced cables where possible. Try plugging all audio equipment into the same power strip. Keep audio cables away from power cables. Move mixer away from sources of interference.

## 7. SPECIFICATIONS

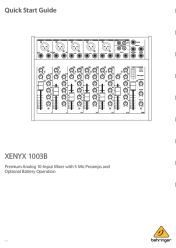
Feature	Specification
Model	XENYX 1003B
Item Weight	6.36 pounds (2.89 Kilograms)
Product Dimensions	17.5 x 11 x 5.5 inches
Power Source	Corded Electric
Voltage	9 Volts
Number of Channels	7
Connectivity Technology	Analog (XLR, TRS, RCA)

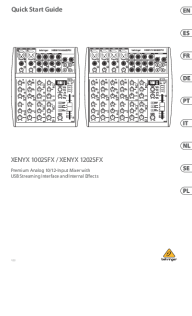
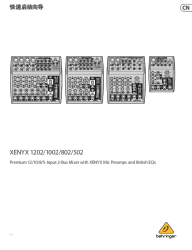
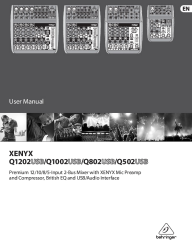
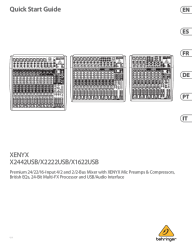
## 8. WARRANTY AND SUPPORT

For detailed warranty information and technical support, please refer to the documentation included with your product or visit the official Behringer website. Behringer provides comprehensive support resources for its products. You can also contact your local dealer or distributor for assistance.

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### Related Documents - XENYX 1003B

	<p><a href="#">Behringer Xenyx 1003B Quick Start Guide</a></p> <p>A quick start guide for the Behringer Xenyx 1003B Premium Analog 10-Input Mixer with 5 Mic Preamps and Optional Battery Operation. This guide covers safety instructions, hook-up diagrams, control descriptions, and initial setup.</p>
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	<p><a href="#">Behringer XENYX 1002SFX / XENYX 1202SFX Quick Start Guide</a></p> <p>Get started quickly with the Behringer XENYX 1002SFX and XENYX 1202SFX premium analog mixers. This guide provides essential setup information for these versatile 10/12-input mixers featuring USB streaming and internal effects.</p>
	<p><a href="#">Behringer XENYX 1202/1002/802/502 Quick Start Guide</a></p> <p>A concise guide to setting up and operating the Behringer XENYX 1202, 1002, 802, and 502 premium 12/10/8/5-input 2-bus mixers with XENYX Mic Preamps and British EQs.</p>
	<p><a href="#">Behringer XENYX Q-Series USB Mixers: User Manual</a></p> <p>User manual for Behringer XENYX Q1202USB, Q1002USB, Q802USB, Q502USB premium 2-bus mixers. Details features like XENYX Mic Preamps, British EQ, and USB audio interface for live and studio use.</p>
	<p><a href="#">Behringer XENYX X2442USB/X2222USB/X1622USB Quick Start Guide</a></p> <p>Quick start guide for the Behringer XENYX X2442USB, X2222USB, and X1622USB mixers, detailing safety instructions, hook-up procedures, controls, multi-FX processor, specifications, and important information.</p>
	<p><a href="#">Behringer XENYX 302USB Quick Start Guide</a></p> <p>Get started quickly with the Behringer XENYX 302USB, a premium 5-input mixer featuring XENYX mic preamps and a USB/Audio interface. This guide provides essential setup and operational information.</p>