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› Behringer KXD12 Keyboard Amplifier User Manual

Behringer KXD12

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Bi-amped 600-Watt 4-channel PA System / Keyboard Amplifier

1. INTRODUCTION

The Behringer KXD12 is a powerful and versatile 600-Watt, 4-channel PA System and Keyboard Amplifier, designed to deliver exceptional sound quality for keyboardists and other musicians. Featuring true bi-amping amplifier design and revolutionary Class-D amplifier technology, it provides enormous power with incredible sonic performance while maintaining a light weight. The KXD12 incorporates a world-famous, British-engineered 12" TURBOSOUND speaker and a 1" driver, along with an ultra-high quality KLARK TEKNIK FX processor offering 100 presets including reverb, chorus, flanger, delay, pitch shifter, and various multi-effects.



Figure 1.1: Front view of the Behringer KXD12 Keyboard Amplifier.



Figure 1.2: The KXD12 is designed for keyboardists and other musicians.

2. SETUP AND CONNECTIONS

Before connecting the KXD12 to a power source, ensure all controls are set to their minimum positions. This prevents sudden loud noises that could damage your equipment or hearing. Always use a grounded power outlet.

2.1 Power Connection

Connect the supplied power cable to the amplifier's power inlet and then to a suitable AC power outlet. The KXD12 operates on standard AC voltage as indicated on the unit's rear panel.

2.2 Instrument and Audio Connections

The KXD12 offers multiple input channels for various instruments and audio sources. Refer to the rear panel diagram for connection points.

- **Line/Mic 1-4 Inputs:** These channels accept both XLR (for microphones) and 1/4" TS/TRS (for line-level instruments like keyboards).
- **Aux In:** RCA inputs for connecting external audio devices such as MP3 players or CD players.
- **Stereo Link:** Allows connecting two KXD12 units for true stereo operation.
- **Line Out:** XLR balanced outputs for sending the mixed signal to a PA system or recording device.
- **Sub Out:** RCA output for connecting an external subwoofer.
- **Foot SW:** Input for an optional footswitch to control effects.



Figure 2.1: Rear panel connections of the Behringer KXD12.

3. OPERATING INSTRUCTIONS

The KXD12 features intuitive controls for managing your sound. Familiarize yourself with the front panel controls for optimal performance.

3.1 Core Technologies: Bi-Amping and Class-D

The KXD12 utilizes a true bi-amping amplifier design, meaning separate amplifiers power the low-frequency (woofer) and high-frequency (tweeter) drivers. This dedicated power delivery results in superior sound clarity and dynamic range. Coupled with revolutionary Class-D amplifier technology, the KXD12 delivers enormous power efficiently, reducing heat and weight compared to traditional amplifier designs.

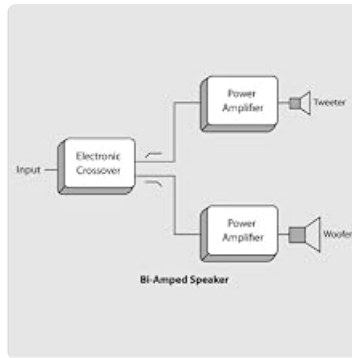


Figure 3.1: Bi-Amped Speaker design for enhanced audio clarity.

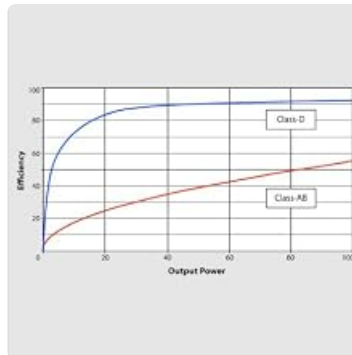


Figure 3.2: Class-D amplifier technology offers superior efficiency.

3.2 Channel Controls

Each of the four channels (Line/Mic 1-4) has dedicated controls:

- **FX Send:** Adjusts the amount of signal sent to the internal effects processor.
- **Level:** Controls the individual volume of each channel.

3.3 Graphic EQ with FBQ Feedback Detection

The 7-band graphic equalizer allows precise tone shaping. The FBQ (Feedback Detection System) helps identify problematic frequencies by illuminating the corresponding EQ fader when feedback occurs, allowing you to quickly cut that frequency.



Figure 3.3: Adjusting the 7-band graphic EQ with FBQ feedback detection.

3.4 KLARK TEKNIK FX Processor

The integrated KLARK TEKNIK effects processor offers 100 high-quality presets. Use the Program knob to select effects and the FX Level control to adjust the overall effect return level.



Figure 3.4: The KLARK TEKNIK FX processor provides 100 presets.

3.5 Master Section

The Master section includes the Master Level control for overall output volume and a Phones Level control for the headphone output. The Shape button provides a quick tonal contouring option.

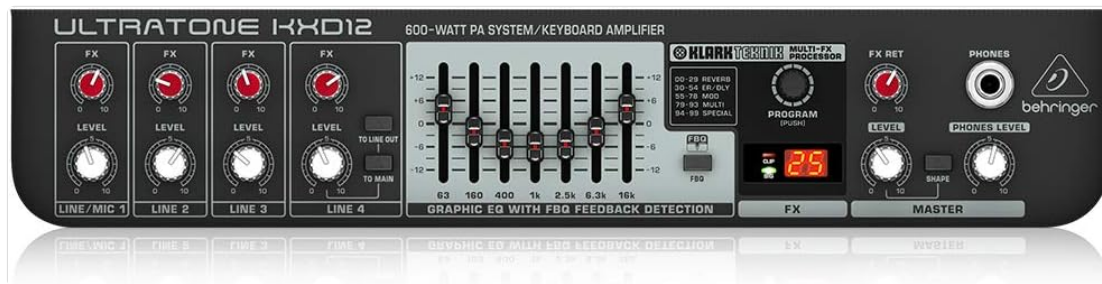


Figure 3.5: Overview of the KXD12 control panel.



Figure 3.6: The headphone output allows for private monitoring.

4. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your KXD12 amplifier.

- **Cleaning:** Use a soft, dry cloth to clean the exterior. Avoid abrasive cleaners or solvents.
- **Ventilation:** Ensure adequate airflow around the unit. Do not block ventilation openings.
- **Storage:** Store the amplifier in a cool, dry place away from direct sunlight and extreme temperatures.
- **Transportation:** When transporting, use appropriate protective cases to prevent damage.

5. TROUBLESHOOTING

If you encounter issues with your KXD12, consult the following common troubleshooting steps:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No sound output	Power not connected, volume too low, input cable faulty, speaker damaged.	Check power cable and switch. Increase Master and channel levels. Test input cables. Contact service if speaker is suspected.
Distorted sound	Input signal too high, EQ settings incorrect, faulty cable.	Reduce input level. Adjust EQ settings. Replace cables.
Feedback (howling)	Microphone too close to speaker, high gain, specific frequencies boosted.	Move microphone away from speaker. Reduce gain. Use FBQ system to identify and cut problematic frequencies on the EQ.
Effects not working	FX Send/Return levels too low, incorrect program selected.	Increase FX Send on channels and FX Level. Select a different FX program.

6. TECHNICAL SPECIFICATIONS

Below are the detailed technical specifications for the Behringer KXD12 Keyboard Amplifier:

Feature	Detail
Model Name	KXD12
Speaker Type	Tower
Compatible Devices	Keyboard
Surround Sound Channel Configuration	2.0
Color	Black
Included Components	600 Watt 4 Channel PA System, Keyboard Amplifier with Original 12" TURBOSOUND Speaker
Product Dimensions	20.71"D x 20.71"W x 16.06"H
Item Weight	40.3 Pounds
Is Waterproof	FALSE
Warranty Type	Limited
Number of Items	1
Control Method	Touch
Speaker Size	12 Inches
Power Source	Corded Electric
Woofer Diameter	12 Inches
Tweeter Diameter	1 Inches
Audio Driver Type	Dynamic Driver

Feature	Detail
Audio Driver Size	12 Inches
Connectivity Protocol	XLR, RCA
Includes MP3 player?	No
Manufacturer	Music Tribe US
Country of Origin	China
Date First Available	November 11, 2014
Output Wattage	600 Watts
Speaker Maximum Output Power	600 Watts
Connectivity Technology	Bluetooth, Wi-Fi
Audio Output Mode	Stereo
Mounting Type	Tabletop Mount

7. WARRANTY AND SUPPORT

The Behringer KXD12 comes with a limited warranty. For detailed warranty information and terms, please refer to the documentation included with your product or visit the official Behringer website.

For technical support, service, or to register your product, please visit the [Behringer Store on Amazon](#) or their official support channels.

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