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Behringer K10S

Behringer NEKKST K10S Audiophile 10" Studio Subwoofer User Manual

Comprehensive instructions for setup, operation, and maintenance.

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Behringer NEKKST K10S Audiophile 10" Studio Subwoofer. Please read these instructions thoroughly to ensure optimal performance and longevity of your device. The NEKKST K10S is an ultra-linear 300-Watt reference-class studio subwoofer designed to provide accurate low-frequency reproduction for professional audio environments.

2. IMPORTANT SAFETY INSTRUCTIONS

Always follow basic safety precautions when using electrical appliances to reduce the risk of fire, electric shock, and injury to persons. Keep these instructions for future reference.

- 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.
- 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.
- 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. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- Behringer NEKKST K10S Audiophile 10" Studio Subwoofer
- Power Cord
- User Manual (this document)
- Warranty Information

4. PRODUCT OVERVIEW

The Behringer NEKKST K10S is a high-performance studio subwoofer designed for accurate low-frequency monitoring. It features a powerful 300-Watt amplifier and a 10-inch high-excursion woofer with a deformation-resistant glass fiber cone.



Figure 4.1: Front view of the Behringer NEKKST K10S Studio Subwoofer. This image displays the subwoofer's sleek black enclosure, the prominent 10-inch woofer with its protective grille, and the Behringer logo at the bottom right. The NEKKST K10S model name is visible on the top left.

Key Features:

- Ultra-linear 300-Watt reference-class studio subwoofer.
- High excursion 10" woofer with deformation-resistant glass fiber cone.
- Powerful bridge-mode amplifier for detailed low-frequency reproduction.
- Variable low-pass filter for optimal crossover alignment.
- Phase switch for seamless integration with stereo monitor systems.

Controls and Connections:

The rear panel of the NEKKST K10S provides all necessary controls and input/output connections for integration into your studio setup.



Figure 4.2: Rear panel diagram of the Behringer NEKKST K10S. This image illustrates the various controls and connection ports, including balanced XLR inputs and outputs, unbalanced RCA inputs and outputs, a gain control knob, a low-pass filter frequency knob, and a phase switch. Power input and fuse holder are also visible.

- **Balanced Inputs (XLR):** For connecting professional audio equipment with balanced XLR outputs.
- **Unbalanced Inputs (RCA):** For connecting consumer-grade audio equipment with RCA outputs.
- **Balanced Outputs (XLR):** For passing the signal through to your main studio monitors.
- **Unbalanced Outputs (RCA):** For passing the signal through to other devices with RCA inputs.
- **Gain Control:** Adjusts the overall output level of the subwoofer.
- **Low-Pass Filter:** Sets the upper frequency limit for the subwoofer, allowing you to blend it seamlessly with your main monitors.
- **Phase Switch:** Allows you to invert the phase of the subwoofer's output, which can help optimize the acoustic alignment with your main monitors.
- **Power Switch and AC Inlet:** For connecting the power cord and turning the unit on/off.

5. SETUP

5.1 Placement

Proper placement of your subwoofer is crucial for optimal performance. Consider the following guidelines:

- **Proximity to Main Monitors:** Place the subwoofer in close proximity to your main stereo monitors to ensure a cohesive soundstage.
- **Room Acoustics:** Avoid placing the subwoofer directly in corners, as this can lead to exaggerated and muddy bass response. Experiment with different positions to find the best acoustic balance in your room.
- **Stable Surface:** Ensure the subwoofer is placed on a stable, level surface to prevent vibrations and unwanted resonance. The NEKKST K10S includes integrated feet for stability.



Figure 5.1: Side view of the Behringer NEKKST K10S, highlighting the integrated feet for stable placement. This image shows the robust construction and the design of the subwoofer's base.

5.2 Connections

Connect your audio source and main monitors to the NEKKST K10S as follows:

1. **Power Off:** Ensure all audio equipment, including the subwoofer and your main monitors, are powered off before making any connections.
2. **Input Connection:**
 - For balanced sources (e.g., audio interface, mixer), connect XLR cables from your source's outputs to the NEKKST K10S's **Balanced Inputs (XLR)**.
 - For unbalanced sources (e.g., consumer audio equipment), connect RCA cables from your source's outputs to the NEKKST K10S's **Unbalanced Inputs (RCA)**.
3. **Output Connection to Main Monitors:**
 - Connect XLR cables from the NEKKST K10S's **Balanced Outputs (XLR)** to the inputs of your main studio monitors.
 - Alternatively, use RCA cables from the NEKKST K10S's **Unbalanced Outputs (RCA)** to your main monitors if they use RCA inputs.
4. **Power Connection:** Connect the supplied power cord to the AC inlet on the rear panel of the subwoofer, then plug it into a suitable power outlet.

6. OPERATING INSTRUCTIONS

6.1 Initial Power-Up and Gain Adjustment

1. Ensure all connections are secure.
2. Turn on your main studio monitors first, then power on the NEKKST K10S using the power switch on the rear panel.
3. Start with the **Gain Control** knob on the subwoofer set to its minimum position.
4. Play some audio through your system. Gradually increase the **Gain Control** on the subwoofer until the bass level integrates smoothly with your main monitors. The goal is to extend the low-frequency response without overpowering the main speakers.

6.2 Low-Pass Filter Adjustment

The **Low-Pass Filter** knob determines the highest frequency the subwoofer will reproduce. This is critical for a seamless transition between the subwoofer and your main monitors.

- Consult the specifications of your main studio monitors to find their low-frequency cutoff point.
- Set the **Low-Pass Filter** on the NEKKST K10S slightly above or at the low-frequency cutoff of your main monitors. For example, if your monitors roll off at 80 Hz, start by setting the subwoofer's low-pass filter to around 80-100 Hz.
- Listen to various audio material and fine-tune the low-pass filter by ear to achieve the most natural and balanced sound.

6.3 Phase Switch

The **Phase Switch** ($0^\circ/180^\circ$) helps to correct potential phase cancellations or reinforcements that can occur when combining a subwoofer with main monitors. This is often dependent on the physical placement of the subwoofer relative to the main speakers.

- Play a piece of music with prominent bass.
- Toggle the **Phase Switch** between 0° and 180°.
- Select the setting that provides the most impactful, clear, and defined bass response. If the bass sounds thin or weak in one setting, switch to the other.

7. MAINTENANCE

To ensure the longevity and optimal performance of your Behringer NEKKST K10S subwoofer, follow these simple maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the subwoofer. Do not use abrasive cleaners, waxes, or solvents, as these can damage the finish.
- **Ventilation:** Ensure that the ventilation openings are not blocked. Adequate airflow is essential to prevent overheating.
- **Storage:** If storing the subwoofer for an extended period, keep it in a dry, dust-free environment, preferably in its original packaging.
- **Power Cord:** Regularly inspect the power cord for any signs of damage. If damaged, replace it with an appropriate cord.

8. TROUBLESHOOTING

If you encounter issues with your NEKKST K10S subwoofer, refer to the following common problems and solutions:

| Problem | Possible Cause | Solution |
|-------------------------|--|---|
| No sound from subwoofer | Power not connected or switched on. Input cables not connected or faulty. Gain control set too low. Audio source not playing. | Check power cord and switch. Verify input cable connections and try different cables. Increase the Gain control. Ensure audio source is active and playing. |
| Weak or muddy bass | Incorrect Low-Pass Filter setting. Incorrect Phase Switch setting. Subwoofer placement issues. | Adjust the Low-Pass Filter to blend with main monitors. Toggle the Phase Switch (0°/180°) to find the optimal setting. Experiment with subwoofer placement in the room. |
| Distorted sound | Gain control set too high. Input signal too strong. Damaged speaker cone. | Reduce the Gain control. Lower the output level from your audio source. Contact customer support if physical damage is suspected. |

9. SPECIFICATIONS

Detailed technical specifications for the Behringer NEKKST K10S Audiophile 10" Studio Subwoofer:

| Feature | Detail |
|--------------------------------|--------------------------------|
| Model Name | K10S |
| Speaker Type | Subwoofer |
| Subwoofer Diameter | 10 Inches |
| Speaker Maximum Output Power | 300 Watts |
| Power Source | Corded Electric |
| Connectivity Technology | Wired |
| Audio Output Mode | Stereo |
| Product Dimensions (D x W x H) | 15.91"D x 15.51"W x 14.02"H |
| Item Weight | 38.36 Pounds (approx. 17.4 kg) |
| Color | Black |
| Manufacturer | Behringer |
| UPC | 748252139047 |

10. WARRANTY AND SUPPORT

The Behringer NEKKST K10S Audiophile 10" Studio Subwoofer comes with a 1 Year Limited Warranty. For detailed warranty terms and conditions, please refer to the warranty information included in your package or visit the official Behringer website.

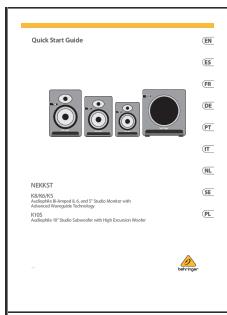
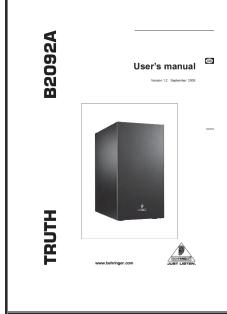
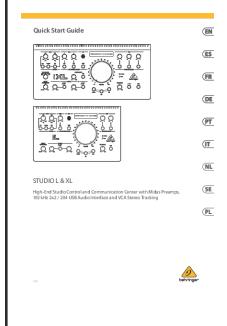
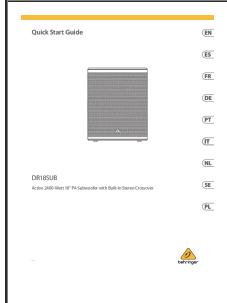
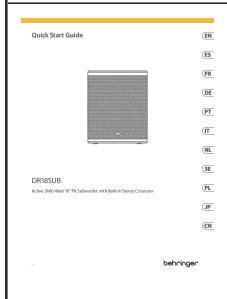
For technical support, service, or further inquiries, please contact Behringer customer support. You can typically find contact information on the official Behringer website or through your local distributor.

Online Resources:

- Behringer Official Website: www.behringer.com

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Related Documents - K10S

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|---|--|
|  <p>Quick Start Guide EN DE FR IT NL SE PL</p> <p>NEKKST K8/K6/K5 Available in 8" Amped & 6.5" Studio Monitor with K10S Available 10" Studio Subwoofer with High-End Crossover</p> <p>Warning</p> | <p>Behringer NEKKST Series Studio Monitors and Subwoofer - Quick Start Guide</p> <p>This guide provides essential information for setting up and operating Behringer's NEKKST K8, K6, K5 studio monitors and K10S subwoofer. It covers hook-up procedures, control descriptions, specifications, and important safety information.</p> |
|  <p>B2092A User's manual Version 1.2, November 2018 www.behringer.com</p> <p>Warning</p> | <p>BEHRINGER TRUTH B2092A Active Studio Subwoofer User Manual</p> <p>User's manual for the BEHRINGER TRUTH B2092A, a high-performance active 360-watt studio subwoofer for mono, stereo, and surround applications. Includes safety instructions, setup guides, specifications, and warranty information.</p> |
|  <p>Quick Start Guide EN DE FR IT NL SE PL</p> <p>STUDIO L & XL High-End Studio Control and Communication Center with Midas Preamps, 192 kHz 2x2 / 2x4 USB audio interface, and VCA stereo tracking. This guide provides essential setup and operational information.</p> <p>Warning</p> | <p>Behringer STUDIO L & XL Quick Start Guide</p> <p>Get started quickly with the Behringer STUDIO L & XL, a high-end studio control and communication center featuring Midas Preamps, a 192 kHz 2x2 / 2X4 USB audio interface, and VCA stereo tracking. This guide provides essential setup and operational information.</p> |
|  <p>Quick Start Guide EN DE FR IT NL SE PL</p> <p>DR18SUB Active 2400-Watt 18" PA Subwoofer with Built-in Stereo Crossover</p> <p>Warning</p> | <p>Behringer DR18SUB Quick Start Guide: Active PA Subwoofer</p> <p>Comprehensive quick start guide for the Behringer DR18SUB active 2400-Watt 18-inch PA subwoofer, covering safety instructions, controls, setup, specifications, and FCC compliance.</p> |
|  <p>Quick Start Guide EN DE FR IT NL SE PL</p> <p>EUROLIVE B1200D-PRO High-Performance 500W 12" PA Subwoofer with Built-in Stereo Crossover</p> <p>Warning</p> | <p>Behringer EUROLIVE B1200D-PRO Quick Start Guide: Active 500W 12" PA Subwoofer</p> <p>Get started quickly with the Behringer EUROLIVE B1200D-PRO, a high-performance 500-watt active 12-inch PA subwoofer with a built-in stereo crossover. This guide covers essential safety instructions, hook-up diagrams, control descriptions, setup steps, and technical specifications.</p> |
|  <p>Quick Start Guide EN DE FR IT NL SE PL</p> <p>DR18SUB Active 2400-Watt 18" PA Subwoofer with Built-in Stereo Crossover</p> <p>Warning</p> | <p>Behringer DR18SUB Active PA Subwoofer Quick Start Guide</p> <p>Get started quickly with the Behringer DR18SUB, an active 2400-Watt 18-inch PA subwoofer featuring a built-in stereo crossover. This guide provides essential setup and operational information.</p> |