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> JBL Professional Control 50S/T Surface-Mount Subwoofer User Manual

JBL CONTROL 50S/T

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Brand: JBL

Model: CONTROL 50S/T

1. INTRODUCTION

The JBL Professional Control 50S/T is a high-performance surface-mount subwoofer designed for use in subwoofer-satellite loudspeaker systems. It delivers robust low-frequency response, making it an ideal component for enhancing audio systems in various professional environments.

This subwoofer features a high-power, long-excursion 200 mm (8 inch) driver with a robust high-mass cone, a 38 mm (1.5 inch) 4-layer copper voice coil for high motor strength, an aluminum former for good transient response, and a rubber half-roll surround for enhanced bass performance. It is capable of handling 150 Watts (600 Watt peak) and offers full bandwidth sound from 32 Hz to 20 kHz.

The Control 50S/T is versatile, supporting selectable 70V/100V for distributed lines or low impedance applications, and can be integrated with either two or four satellite speakers per system.

2. PACKAGE CONTENTS

Upon unpacking your JBL Professional Control 50S/T Subwoofer, please ensure all components are present and in good condition. The standard package includes:

- JBL Professional Control 50S/T Surface-Mount Subwoofer
- Mounting bracket
- User Manual (this document)

If any items are missing or damaged, please contact your dealer or JBL Professional customer support immediately.

3. SETUP AND INSTALLATION

Proper setup is crucial for optimal performance and safety. The Control 50S/T is designed for surface mounting. Always ensure the mounting surface can support the weight of the subwoofer and any associated satellite speakers.

3.1 Mounting the Subwoofer

Use the provided mounting bracket to securely attach the subwoofer to a suitable surface. Refer to the detailed mounting instructions included with the bracket for specific steps and hardware requirements. Ensure all fasteners are tightened appropriately to prevent accidental detachment.



Figure 1: Front and side view of the JBL Professional Control 50S/T Subwoofer.



Figure 2: Top and side view of the JBL Professional Control 50S/T Subwoofer.

3.2 Wiring and Connectivity

The Control 50S/T offers flexible connectivity options:

- **Low Impedance Mode:** For direct connection to an amplifier, ensure the amplifier's output impedance matches the subwoofer's impedance.
- **70V/100V Distributed Line Mode:** For commercial installations with distributed audio systems, select the appropriate voltage tap on the subwoofer. This allows for easy integration into systems with multiple speakers over long cable runs.

Connect the subwoofer to your audio system using appropriate speaker cables. Ensure correct polarity (+ to + and - to -) for all connections to maintain proper phase and sound quality. The subwoofer is designed to work with two or four satellite speakers (e.g., JBL Control 52 Surface Mount Satellite Speakers) to create a complete system.

The subwoofer uses wired connectivity. Ensure all connections are secure before powering on your audio system.

4. OPERATION

Once installed and connected, the JBL Control 50S/T Subwoofer operates as part of your overall audio system. Its primary function is to reproduce low-frequency audio content, complementing your satellite speakers.

- **Power On/Off:** The subwoofer's power state is typically controlled by the amplifier or audio system it is connected to. Ensure the amplifier is powered on for the subwoofer to function.
- **Volume Control:** Adjust the overall system volume via your amplifier or audio source. The subwoofer's output level is balanced with the satellite speakers during system design and installation.
- **Bass Boost:** If your amplifier or audio processor includes a bass boost feature, you may utilize it to enhance the low-frequency output of the subwoofer according to your preference.
- **Stereo Pairing:** In systems designed for stereo pairing, ensure the subwoofer is correctly integrated to provide balanced bass across the stereo image.
- **Control Methods:** Depending on your system configuration, control may be via remote control or voice commands if integrated with a compatible smart home or audio control system.

For optimal sound, ensure the subwoofer is placed in a location that allows for proper bass dispersion without excessive room modes or cancellations. Experiment with placement if possible to find the best acoustic performance.

5. MAINTENANCE AND CARE

To ensure the longevity and continued performance of your JBL Professional Control 50S/T Subwoofer, follow these maintenance guidelines:

- **Cleaning:** Regularly wipe the exterior of the subwoofer with a soft, dry cloth. For stubborn dirt, a slightly damp cloth can be used, but ensure no moisture enters the speaker grilles or ports. Avoid using harsh chemicals, solvents, or abrasive cleaners.
- **Environment:** The subwoofer is not waterproof and not water resistant. Avoid exposing it to moisture, direct sunlight, extreme temperatures, or excessive dust. Operate it within a stable indoor environment.
- **Ventilation:** Ensure adequate airflow around the subwoofer, especially if it is placed in an enclosed space, to prevent overheating.
- **Connections:** Periodically check all cable connections to ensure they remain secure and free from corrosion. Loose connections can lead to signal loss or degraded sound quality.

Do not attempt to open the subwoofer enclosure or perform any internal repairs. This can void your warranty and may result in damage to the unit or personal injury. Refer all servicing to qualified personnel.

6. TROUBLESHOOTING

If you encounter issues with your JBL Professional Control 50S/T Subwoofer, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
No Sound from Subwoofer	<ul style="list-style-type: none"> ◦ Power not supplied to amplifier/system. ◦ Loose or incorrect cable connections. ◦ Incorrect input selection on amplifier. ◦ Subwoofer impedance/voltage setting mismatch. 	<ul style="list-style-type: none"> ◦ Ensure amplifier/system is powered on. ◦ Check all speaker wire connections for proper polarity and secure fit. ◦ Verify the correct audio input is selected on your amplifier. ◦ Confirm the subwoofer is set to the correct 70V/100V tap or low impedance mode for your system.

Problem	Possible Cause	Solution
Distorted or Weak Bass	<ul style="list-style-type: none"> Overdriving the subwoofer. Incorrect amplifier gain settings. Poor room acoustics/placement. Damaged speaker driver. 	<ul style="list-style-type: none"> Reduce the volume level. Adjust amplifier gain settings according to manufacturer recommendations. Experiment with subwoofer placement to minimize acoustic issues. If distortion persists, contact support for inspection.
Humming or Buzzing Noise	<ul style="list-style-type: none"> Ground loop issue. Interference from other electronics. Faulty cable. 	<ul style="list-style-type: none"> Try plugging audio components into the same electrical outlet. Move audio cables away from power cables or other electronic devices. Replace the audio cable connecting the subwoofer to the amplifier.

If the problem persists after attempting these solutions, please contact JBL Professional customer support for further assistance.

7. SPECIFICATIONS

Feature	Detail
Model Name	CONTROL 50S/T
Speaker Type	Subwoofer
Mounting Type	Surface Mount
Input Voltage	70 Volts (Selectable 70V/100V or Low Impedance)
Speaker Maximum Output Power	600 Watts (Peak)
Wattage (RMS)	150 Watts
Frequency Response	32 Hz - 20 kHz
Audio Driver Size	8 Inches (200 mm)
Connectivity Technology	Wired
Surround Sound Channel Configuration	2.1, 4.1 (with satellite speakers)
Color	Black
Item Weight	19.8 pounds (9 Kilograms)
Product Dimensions	18 x 11 x 18 inches
Included Components	Mounting bracket
Is Waterproof	FALSE
Water Resistance Level	Not Water Resistant
UPC	050036905206

8. WARRANTY INFORMATION

The JBL Professional Control 50S/T Subwoofer comes with a Full Warranty. For specific terms, conditions, and duration of the

warranty, please refer to the warranty card included with your product or visit the official JBL Professional website. Keep your proof of purchase for any warranty claims.

Extended protection plans may be available for purchase separately. These plans offer additional coverage beyond the standard manufacturer's warranty.

9. CUSTOMER SUPPORT

For technical assistance, service, or further information regarding your JBL Professional Control 50S/T Subwoofer, please contact JBL Professional customer support.

You can find contact information and additional resources by visiting the official JBL Store or JBL Professional website:

[Visit the JBL Store on Amazon](#)

Please have your product model number (CONTROL 50S/T) and UPC (050036905206) ready when contacting support.