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JBL ES250P

JBL Sub 550P High-Performance 10" Powered Subwoofer Instruction Manual

Brand: **JBL** | Model: **ES250P**

1. Introduction

The JBL Sub 550P is a high-performance 10-inch (250mm) powered subwoofer designed to deliver accurate and deep bass for home audio systems. It features a built-in 300W RMS amplifier and a sealed enclosure for optimal sound reproduction. This manual provides essential information for setting up, operating, and maintaining your subwoofer.

2. Key Features

- **10-inch (250mm) Low-Frequency Transducer:** Delivers deep bass impact. The PolyPlas cone material enhances stiffness and damping for tighter, extended bass without distortion. The cast-aluminum frame ensures precise alignment and heat dissipation.
- **Built-in 300W RMS Amplifier:** Provides high-power amplification for louder volume with less distortion, resulting in realistic bass while generating less heat.
- **Sealed Enclosure:** Designed for optimal bass response and clarity.
- **Forward-firing Transducer:** Maximizes bass impact.
- **LFE and Line Level Inputs:** Allows proper operation with various receivers and processors.
- **Adjustable Crossover Frequency:** Optimizes subwoofer performance to blend seamlessly with your main speakers.
- **Phase Control:** Increases installation flexibility for optimal sound integration.
- **Metal Floor Spikes:** Included to improve bass impact and reduce unwanted boominess.
- **Auto Turn-on and Turn-off:** For convenient use and energy conservation.

3. What's in the Box

Upon unpacking your JBL Sub 550P, please ensure all items are present:

- JBL Sub 550P Powered Subwoofer
- Four metal floor spikes
- Power Cord
- This Instruction Manual

4. Setup

4.1 Placement

The placement of your subwoofer significantly impacts its performance. Experiment with different locations to find the best bass response in your listening area. Generally, placing the subwoofer in a corner can enhance bass output, but may also lead to "boominess." Placing it along a wall can provide a more balanced sound. Avoid placing it directly against a wall if possible, to allow for proper air circulation.

4.2 Connecting the Subwoofer

The JBL Sub 550P offers both LFE (Low-Frequency Effects) and line-level inputs for versatile connection options.

- **LFE Input (Recommended):** If your A/V receiver has a dedicated subwoofer output (often labeled LFE, SUB OUT, or SUBWOOFER), connect a single RCA cable from this output on your receiver to the LFE input on the subwoofer. This allows your receiver to manage the crossover frequency.
- **Line Level Inputs:** If your receiver does not have a dedicated subwoofer output, connect RCA cables from the receiver's front left and right pre-out jacks to the corresponding left and right line-level inputs on the subwoofer. You will then need to adjust the subwoofer's crossover frequency control.

4.3 Power Connection

Once connected to your audio system, plug the subwoofer's power cord into a suitable AC outlet. The subwoofer features an auto turn-on/off function, which will activate the unit when an audio signal is detected and put it into standby mode after a period of inactivity.

5. Operating the Subwoofer

5.1 Volume Control

Adjust the volume knob on the subwoofer to balance its output with your main speakers. Start with a low volume and gradually increase it until the bass blends naturally with the rest of your audio system without overpowering it.

5.2 Crossover Frequency

The crossover frequency control determines the highest frequency the subwoofer will reproduce. If using the LFE input,

set this control to its maximum setting, as your receiver will manage the crossover. If using line-level inputs, adjust the crossover to blend smoothly with your main speakers. A good starting point is typically around 80-100 Hz, but this may vary depending on your main speakers' low-frequency capabilities.

5.3 Phase Control

The phase control (0° or 180°) helps ensure the subwoofer's output is in phase with your main speakers, preventing cancellation or reinforcement of bass frequencies. Listen to music with strong bass and switch between 0° and 180°. Choose the setting that provides the most impactful and coherent bass response.

6. Maintenance

To ensure the longevity and optimal performance of your JBL Sub 550P, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to wipe the cabinet. Avoid using abrasive cleaners, waxes, or solvents.
- **Placement:** Keep the subwoofer away from direct sunlight, heat sources, and excessive moisture. Ensure adequate ventilation around the amplifier section.
- **Handling:** When moving the subwoofer, lift it carefully to avoid dropping or damaging the enclosure or internal components.

7. Troubleshooting

Problem	Possible Cause	Solution
No Sound from Subwoofer	Power cord not connected. Subwoofer not turned on (auto-on). Input cables loose or incorrect. Receiver subwoofer output disabled.	Ensure power cord is securely plugged in. Check if the subwoofer is receiving an audio signal to activate auto-on. Verify all audio cables are securely connected to the correct inputs/outputs. Check your receiver's settings to ensure the subwoofer output is enabled and volume is up.
Weak or Distorted Bass	Volume too low. Incorrect crossover setting. Incorrect phase setting. Subwoofer placement.	Increase the subwoofer's volume knob. Adjust the crossover frequency for better blending with main speakers. Toggle the phase switch (0°/180°) to find the optimal setting. Experiment with different subwoofer placements in the room.
Humming or Buzzing Noise	Ground loop issue. Loose connections.	Try plugging the subwoofer into a different electrical outlet or a power conditioner. Ensure all audio and power connections are tight.

8. Specifications

Model Name	Sub 550P
Speaker Type	Subwoofer
Subwoofer Diameter	10 Inches
Power Source	AC
Speaker Maximum Output Power	700 Watts (Peak) / 300 Watts (RMS)
Connectivity Technology	Wired (RCA)
Material	Wood
Color	Black
Item Weight	52 Pounds
Product Dimensions	20.5 x 22.3 x 23.5 inches
Mounting Type	Floor Standing
Included Components	Four metal floor spikes

9. Product Visuals

Figure 9.1: Front view of the JBL Sub 550P subwoofer with its protective grille installed.

Figure 9.2: Front view of the JBL Sub 550P subwoofer with the grille removed, revealing the 10-inch low-frequency transducer.

Official Product Video

Your browser does not support the video tag.

Video 9.3: An official JBL video featuring Paul McCartney, highlighting the brand's commitment to sound quality. This video showcases the brand's legacy and association with renowned artists, emphasizing the importance of hearing true sound.

10. Warranty and Support

The JBL Sub 550P comes with a full warranty. For detailed warranty information, terms, and conditions, please refer to the warranty card included with your product or visit the official JBL website. For technical support, troubleshooting

assistance beyond this manual, or service inquiries, please contact JBL customer support through their official channels. You can often find additional support resources, FAQs, and contact information on theJBL Store on Amazon or the main JBL website.

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