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> JBL Professional JRX218S 18-Inch Passive Subwoofer Instruction Manual

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Model: JRX218S

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1. INTRODUCTION

This manual provides essential information for the proper setup, operation, and maintenance of your JBL Professional JRX218S 18-Inch Passive Subwoofer. Please read this manual thoroughly before using the product to ensure optimal performance and safety. The JRX218S is designed to deliver powerful low-frequency sound for various professional audio applications.



Figure 1: Front view of the JBL Professional JRX218S 18-Inch Passive Subwoofer.

2. IMPORTANT SAFETY INFORMATION

- **Read Instructions:** Retain these instructions for future reference.
- **Heed Warnings:** Follow all warnings on the product and in the operating instructions.
- **Water and Moisture:** Do not use this apparatus near water.
- **Cleaning:** Clean only with a dry cloth.
- **Ventilation:** Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- **Heat:** Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- **Power-Cord Protection:** Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- **Accessories:** Use only attachments/accessories specified by the manufacturer.
- **Mounting:** 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.

- **Servicing:** 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. WHAT'S IN THE BOX

Upon opening the packaging, verify that all components are present and in good condition:

- JBL Professional JRX218S 18-Inch Passive Subwoofer
- User Manual (this document)

If any items are missing or damaged, please contact your dealer immediately.

4. SETUP GUIDE

4.1 Placement

For optimal bass response, place the JRX218S subwoofer on a stable, flat surface. Corner placement can often enhance bass output, but experiment with different positions to find the best sound for your environment. Ensure adequate space around the unit for proper ventilation.

4.2 Connections

The JRX218S is a passive subwoofer and requires an external amplifier. Connect your amplifier's output to one of the SpeakON inputs on the rear panel of the subwoofer. The two SpeakON inputs are wired in parallel, allowing for easy daisy-chaining to another passive speaker or subwoofer. Ensure your amplifier can safely drive a 4-ohm load.

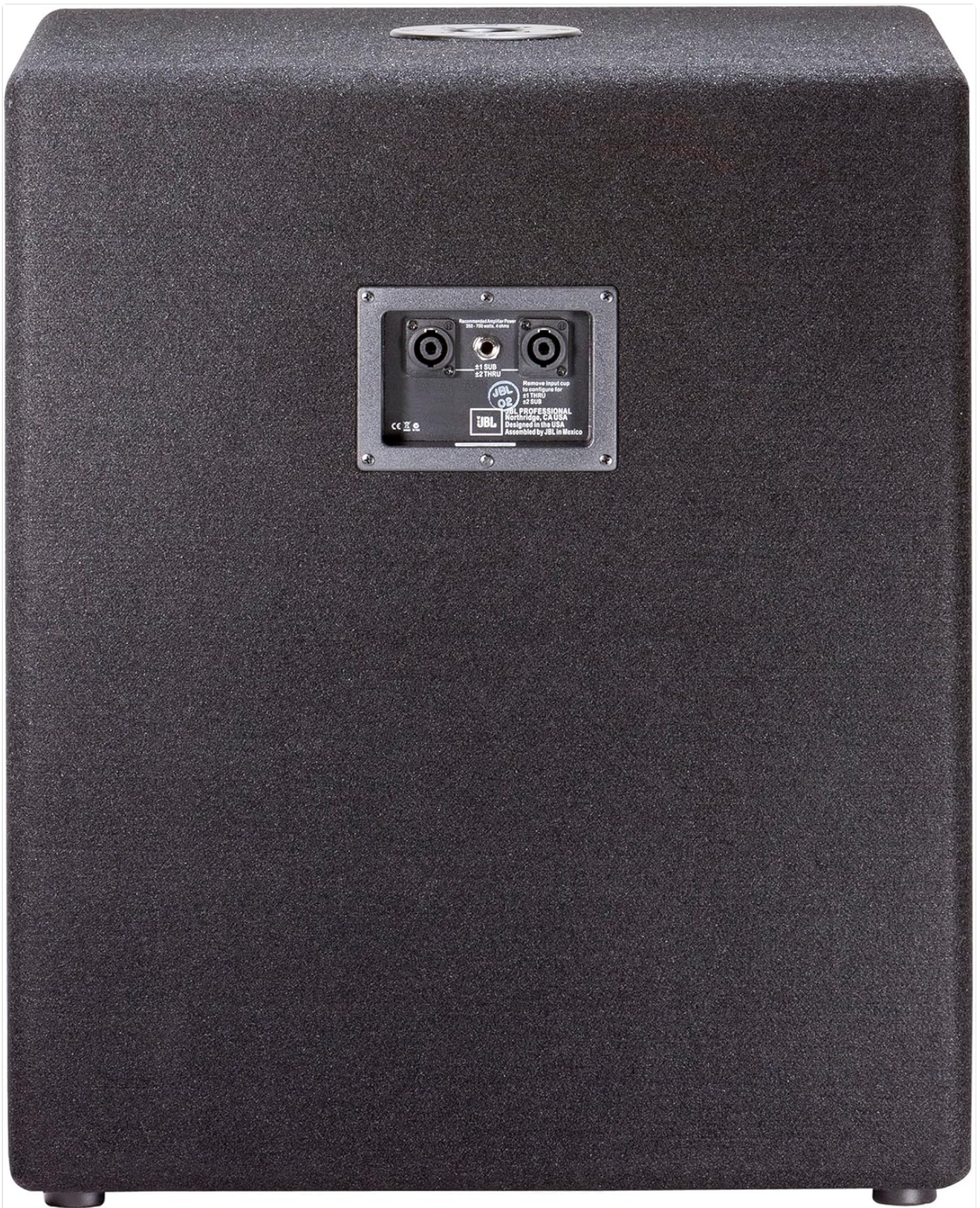


Figure 2: Rear panel showing SpeakON input connectors.

4.3 Pole Mounting

The subwoofer features a top-mounted, cast aluminum 35 mm pole mount receptacle. This allows you to mount a mid/high speaker cabinet directly above the subwoofer using an optional SS3BK pole (sold separately), creating a compact and integrated full-range sound system. Ensure the pole and mounted speaker are stable and secure.



Figure 3: JRX218S with an optional pole-mounted speaker (speaker and pole not included).

5. OPERATING INSTRUCTIONS

5.1 Power Handling

The JRX218S has a continuous power handling capacity of 350 Watts and a peak power handling of 1400 Watts. It is crucial to match your amplifier's output to these specifications to prevent damage to the subwoofer. Overpowering or underpowering can lead to poor performance or component failure.

5.2 Impedance and Frequency Response

The subwoofer operates at an impedance of 4 ohms. Its frequency range is 34Hz-250Hz (-10dB), with a frequency response of 53Hz-250Hz (± 3 dB). This range is optimized for deep bass reproduction.

5.3 System Integration

When integrating the JRX218S into a larger PA system, use an external crossover to send only low-frequency signals to the subwoofer. This ensures efficient operation and prevents the subwoofer from attempting to reproduce frequencies outside its optimal range, which can lead to distortion and reduced performance.

6. MAINTENANCE

6.1 Cleaning

To maintain the appearance and performance of your subwoofer, regularly wipe the exterior with a soft, dry cloth. Avoid using abrasive cleaners, solvents, or excessive moisture, as these can damage the carpet covering and internal components.

6.2 Enclosure and Grille

The rugged enclosure is constructed from 19 mm (.75 in) Medium Density Fiberboard (MDF) and covered in black carpet. The 18-gauge perforated steel grille protects the speaker components. Inspect these periodically for any signs of damage. Minor scuffs on the carpet can often be brushed out. Do not attempt to remove the grille unless you are qualified service personnel.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No Sound Output	<ul style="list-style-type: none">◦ Incorrect wiring or loose connections.◦ Amplifier not powered on or faulty.◦ Crossover settings incorrect (no low frequencies sent).	<ul style="list-style-type: none">◦ Check all SpeakON connections between amplifier and subwoofer.◦ Verify amplifier power and functionality.◦ Ensure your audio processor or mixer is sending low-frequency signals to the subwoofer output.
Distorted Sound	<ul style="list-style-type: none">◦ Overdriving the subwoofer (too much power).◦ Amplifier clipping.◦ Incorrect crossover frequency.	<ul style="list-style-type: none">◦ Reduce input level to the amplifier or subwoofer.◦ Check amplifier gain settings; ensure it's not clipping.◦ Adjust crossover to send only appropriate low frequencies to the subwoofer.
Weak or Insufficient Bass	<ul style="list-style-type: none">◦ Subwoofer phase issue.◦ Improper placement.◦ Amplifier not powerful enough.	<ul style="list-style-type: none">◦ If your amplifier or processor has a phase switch, try inverting the phase.◦ Experiment with different subwoofer placements (e.g., closer to a wall or corner).◦ Ensure your amplifier provides sufficient power for the subwoofer's continuous rating.

8. TECHNICAL SPECIFICATIONS

Feature	Detail
Model	JRX218S
Speaker Type	Passive Subwoofer
Woofer Diameter	18 Inches
Power Handling (Continuous/Peak)	350W / 1400W

Feature	Detail
Impedance	4 Ohms
Frequency Range (-10dB)	34Hz - 250Hz
Frequency Response (± 3 dB)	53Hz - 250Hz
Maximum Peak SPL	133dB SPL
Connectivity	2 x SpeakON NL-4 (parallel)
Enclosure Material	19 mm (.75 in) MDF with black carpet covering
Grille	18-gauge perforated steel
Pole Mount	Top-mounted, cast aluminum 35 mm receptacle
Dimensions (H x W x D)	23.5" x 20.3" x 22" (597 mm x 516 mm x 559 mm)
Weight	71 lbs (32.5 kg)



Figure 4: Dimensions of the JRX218S subwoofer.

9. WARRANTY AND SUPPORT

9.1 Warranty Information

The JBL Professional JRX218S 18-Inch Passive Subwoofer comes with a manufacturer's limited warranty. Please refer to the warranty card included with your product or visit the official JBL Professional website for detailed terms and conditions. Keep your proof of purchase for warranty claims.

9.2 Customer Support

For technical assistance, service, or further inquiries, please contact JBL Professional customer support. Contact details can typically be found on the official JBL website or in the product packaging.