

JBL JRX225

JBL Professional JRX225 Passive 2-Way Loudspeaker System Instruction Manual

Model: JRX225

1. PRODUCT OVERVIEW

The JBL Professional JRX225 is a portable, passive 2-way sound reinforcement loudspeaker system designed for professional audio applications. It features dual 15-inch low-frequency drivers and a 1-inch polymer diaphragm compression driver, delivering a nominal power of 500 W and a peak power of 2000 W. This system is engineered for durability and high-quality sound output across various environments.



Figure 1: Front view of the JBL Professional JRX225 loudspeaker, showcasing its dual 15-inch woofers and high-frequency driver behind a protective grille.

Key features include a 2.5-inch diameter edge-wound ribbon voice coil for enhanced efficiency and power handling, and SonicGuard™ technology to protect the high-frequency driver from excessive power. The advanced crossover network ensures seamless frequency response and high power handling. The enclosure is constructed from durable .75-inch MDF with an 18-gauge perforated steel grille for component protection. Ergonomic, non-resonant steel handles facilitate transport.



Figure 2: Angled front view of the JBL Professional JRX225, highlighting its robust construction and grille design.

2. SETUP AND CONNECTION

2.1 Unpacking

Carefully remove the JRX225 loudspeaker from its packaging. Inspect the unit for any signs of damage that may have occurred during shipping. Retain the original packaging for future transport or storage.

2.2 Placement

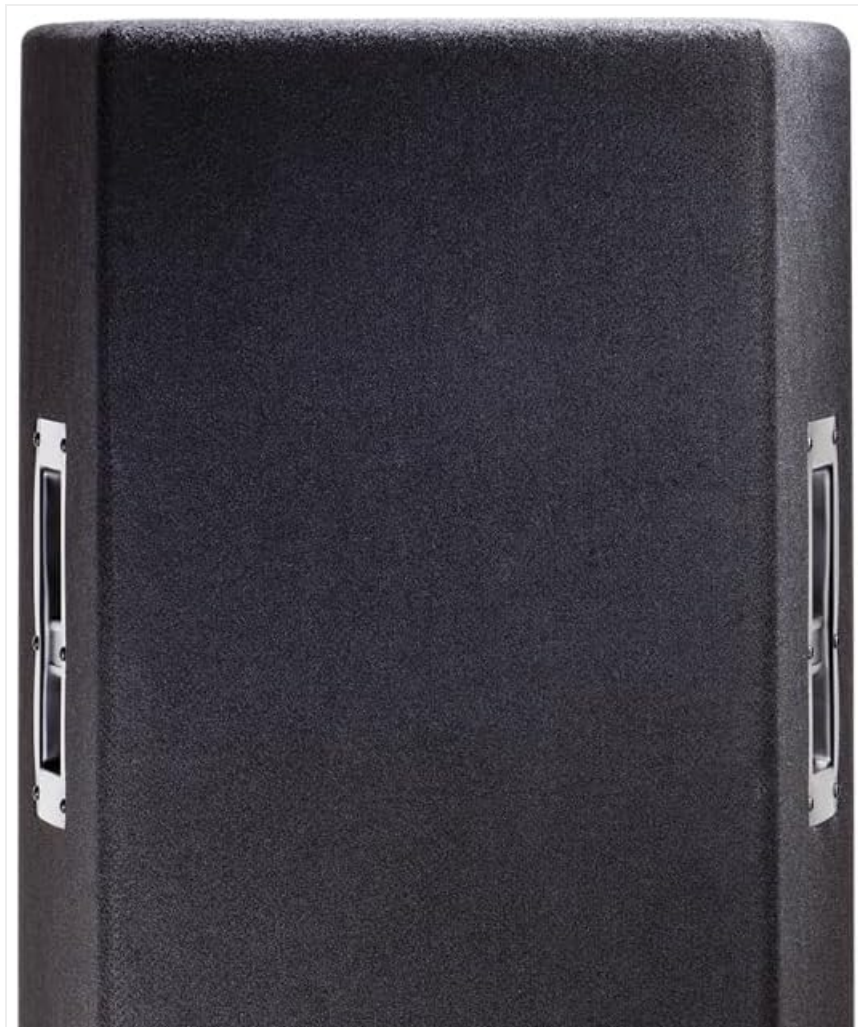
The JRX225 can be placed directly on a stable surface or utilized with its dual-angle pole-mount socket. This socket allows for a 10° tilt, optimizing audience coverage and sound distribution. Ensure the speaker is placed on a flat, stable surface to prevent tipping. For optimal sound, position speakers to cover the intended listening area without obstructions.

2.3 Connections

As a passive loudspeaker, the JRX225 requires an external amplifier. Connect the speaker to a suitable power amplifier using high-quality speaker cables. The JRX225 features Neutrik Speakon NL-4 (x1) and 1/4" TS phone jack (x1) parallel connectors. Ensure proper polarity (+ to + and - to -) when making connections to avoid phase issues.

- **Speakon NL-4:** Recommended for secure and high-power connections.
- **1/4" TS Phone Jack:** Suitable for standard connections.

The recommended amplifier power is 250 W to 500 W into 8 ohms. Using an amplifier outside this range may result in suboptimal performance or damage.



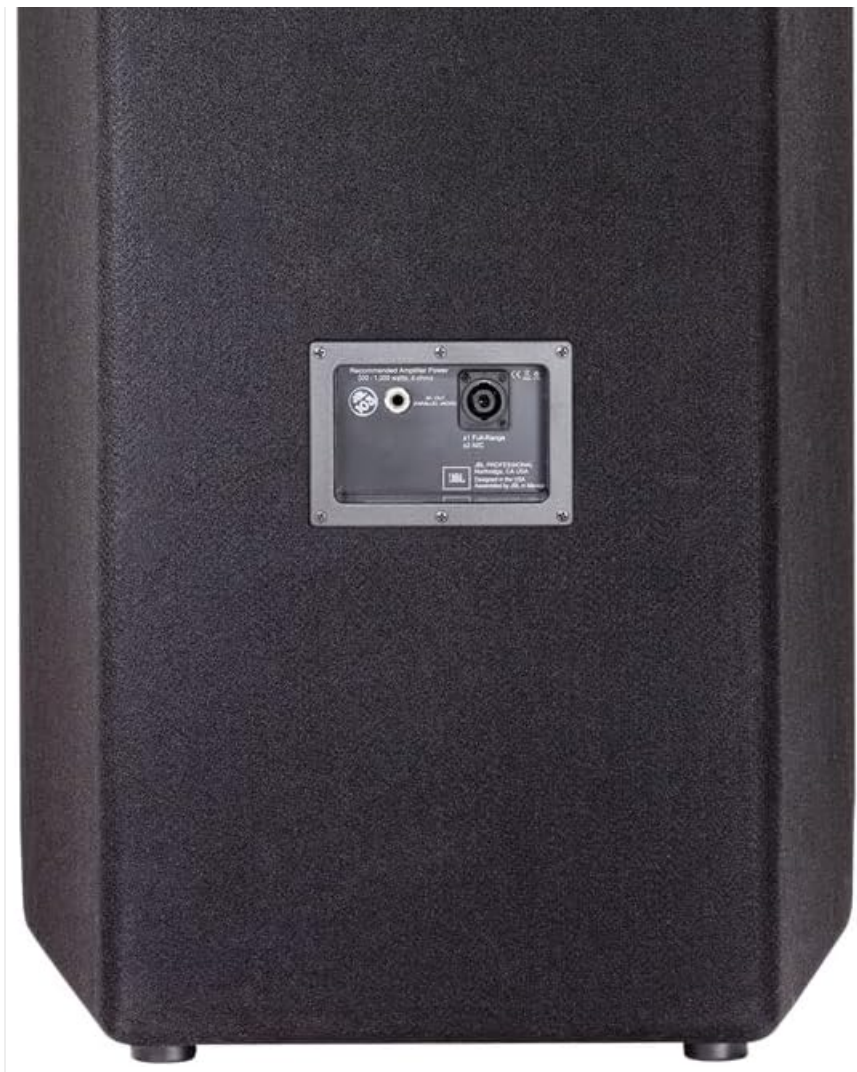


Figure 3: Rear view of the JBL Professional JRX225, displaying the Neutrik Speakon NL-4 and 1/4" TS phone jack input connectors.

3. OPERATION

3.1 Powering On/Off

Since the JRX225 is a passive speaker, its power is supplied by the connected amplifier. Always ensure your amplifier is turned off before connecting or disconnecting speakers. Turn on your amplifier after all connections are secure, and turn it off before disconnecting.

3.2 Volume Control

Adjust the volume through your amplifier or mixing console. Start with low volume levels and gradually increase to the desired output. Avoid operating the system at excessively high volumes for extended periods to prevent potential damage to the speakers or hearing impairment.

3.3 Sound Optimization

For optimal sound quality, consider using an external equalizer or crossover with your amplifier. This allows for fine-tuning of frequency response to suit the acoustic environment and musical content. The JRX225's Progressive Transition™ waveguide ensures superior coverage and reduced distortion, but further optimization can enhance performance.

4. MAINTENANCE

4.1 Cleaning

Clean the exterior of the loudspeaker with a soft, dry cloth. Do not use abrasive cleaners, solvents, or excessive moisture, as these can damage the finish or internal components. Periodically check the grille for dust or debris and gently remove it.

4.2 Storage

When not in use, store the JRX225 in a cool, dry environment, away from direct sunlight and extreme temperatures. If transporting, use appropriate covers or cases to protect the enclosure and grille from physical damage.

4.3 Protection

The JRX225 incorporates SonicGuard™ technology to protect the high-frequency driver. However, continuous operation at clipping levels or with an underpowered/overpowered amplifier can still cause damage. Always monitor your amplifier's output and avoid prolonged signal clipping.

5. TROUBLESHOOTING

Problem	Possible Cause	Solution
No Sound Output	<ul style="list-style-type: none">◦ Amplifier not powered on.◦ Incorrect cable connection.◦ Damaged speaker cable.◦ Amplifier output level too low.	<ul style="list-style-type: none">◦ Ensure amplifier is on and functioning.◦ Verify all cables are securely connected to the correct inputs/outputs.◦ Test with a known good speaker cable.◦ Increase amplifier output gradually.
Distorted Sound	<ul style="list-style-type: none">◦ Amplifier clipping (overdriving).◦ Input signal too high.◦ Damaged speaker component.◦ Incorrect impedance match.	<ul style="list-style-type: none">◦ Reduce amplifier gain or volume.◦ Lower the input signal level from the source.◦ Contact authorized service for inspection.◦ Ensure amplifier impedance matches speaker (8 ohms).
Low Volume Output	<ul style="list-style-type: none">◦ Amplifier output too low.◦ Incorrect wiring (out of phase).◦ Source device volume too low.	<ul style="list-style-type: none">◦ Increase amplifier volume.◦ Check speaker cable polarity.◦ Increase volume on the audio source.

6. TECHNICAL SPECIFICATIONS

Feature	Detail
Model Name	JRX225
Speaker Type	Passive 2-Way
Woofer Diameter	Dual 15 Inches

Feature	Detail
Tweeter Diameter	1 Inch
Power Rating (Nominal/Peak)	500 W / 2000 W
Recommended Amplifier Power	250 W to 500 W into 8 ohms
Impedance	8 Ohms
Frequency Range (-10dB)	42 Hz - 18 kHz
Frequency Response (±3 dB)	62 Hz - 13 kHz
Sensitivity (@1m)	100 dB SPL (1w/1m)
Maximum SPL (1m)	133 dB
Connectivity Technology	Neutrik Speakon NL-4 (x1); ¼" TS phone jack (x1); parallel
Mounting Type	Tripod, Freestanding (Dual-angle pole-mount socket)
Product Dimensions (D x W x H)	16.8"D x 18.3"W x 43"H
Item Weight	94 Pounds
Material	MDF enclosure, Alloy Steel grille
Color	Black



Figure 4: Dimensional diagram of the JBL Professional JRX225 loudspeaker, indicating its height, width, and depth.

7. WARRANTY AND SUPPORT


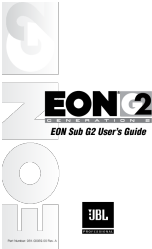

7.1 Warranty Information




The JBL Professional JRX225 loudspeaker system comes with a limited warranty. Please refer to the warranty card included with your product or visit the official JBL Professional website for detailed terms and conditions regarding coverage, duration, and service procedures.

7.2 Customer Support

For technical assistance, troubleshooting beyond this manual, or service inquiries, please contact JBL Professional customer support. Contact information can typically be found on the official JBL website or in your product documentation. When contacting support, please have your product model number (JRX225) and serial number available.

Related Documents - JRX225

	<p>JBL EON 600 Series User's Guide - Setup, Specifications, and Operation</p> <p>Comprehensive user guide for JBL EON 600 Series professional loudspeakers (EON610, EON612, EON615, EON618S). Learn about setup, specifications, placement, troubleshooting, and warranty.</p>
	<p>JBL EON Sub G2 User's Guide - Professional Audio Subwoofer Manual</p> <p>Comprehensive user guide for the JBL EON Sub G2, detailing its features, technical specifications, setup, controls, application examples, troubleshooting, and warranty information for professional audio installations.</p>
	<p>JBL HLA 4895 & 4897 Horn Loaded Array System Owner Manual</p> <p>Comprehensive owner's manual for the JBL HLA 4895 and HLA 4897 Horn Loaded Array speaker systems, covering setup, operation, rigging, maintenance, and technical specifications for professional sound reinforcement.</p>

 <p>The image shows the front cover of the JBL PRX500 Series Professional PA Loudspeakers User Guide. It features the JBL logo at the top, the model name 'PRX500' in a large font, and the title 'User's Guide' below it. There is also a small image of the speaker itself.</p>	<p>JBL PRX500 Series Professional PA Loudspeakers User Guide</p> <p>Comprehensive user guide for JBL PRX500 series self-powered PA loudspeakers, covering setup, specifications, applications, troubleshooting, and warranty information. Learn how to optimize performance and ensure safe operation of your JBL audio equipment.</p>
 <p>The image shows the technical specifications page for the JBL Control 416C/T Standard Coverage Series Ceiling Loudspeaker. It includes a photograph of the speaker and a detailed list of specifications and features.</p>	<p>JBL Control 416C/T Standard Coverage Series Ceiling Loudspeaker - Technical Specifications</p> <p>Detailed technical specifications, features, and performance data for the JBL Control 416C/T, a 6.5-inch two-way coaxial ceiling loudspeaker designed for commercial and professional audio installations.</p>
 <p>The image shows the cover of the JBL CBT Series brochure. It features a photograph of a large auditorium with rows of yellow seats and a stage with a large screen. The JBL logo is at the top, and the title 'JBL CBT Series' is prominently displayed.</p>	<p>JBL CBT Series: Constant Beamwidth Technology for Controlled Coverage Loudspeakers</p> <p>Explore the JBL CBT Series, a range of passive controlled-coverage column loudspeakers utilizing Constant Beamwidth Technology to overcome challenging acoustic environments. Discover how CBT delivers precise sound projection, superior intelligibility, and consistent audio performance for diverse applications, from traditional installations to high-level performance venues.</p>