

Manuals.plus /

> JBL /

> JBL Professional CBT 70JE-1 Line Array Column Speaker Extension Manual

JBL CBT 70JE-1

JBL Professional CBT 70JE-1 Line Array Column Speaker Extension Manual

Model: CBT 70JE-1

1. PRODUCT OVERVIEW

The JBL Professional CBT 70JE-1 is a 70 cm extension module designed to enhance the performance of the CBT 70J-1 Line Array Column Speaker. This extension integrates seamlessly to create a taller 140 cm array, significantly improving low-frequency response and pattern control.





Image 1.1: JBL Professional CBT 70JE-1 Line Array Column Speaker Extension.

Key Features:

- **Components:** Four 125 mm (5 inch) high-power LF drivers.
- **Power Handling:** 500 Watts continuous pink noise.

- **Crossover Network:** Built-in, purpose-designed for combining with CBT 70J-1.
- **Coupler Plate:** Included for secure attachment.
- **Extended Pattern Control:** Effective to 400 Hz for 20° control and to 200 Hz for substantial off-axis cancellation.
- **System Response:** When combined with CBT 70J-1, the system achieves a frequency response of 45 Hz – 20 kHz.

2. INSTALLATION

2.1 Unpacking

Carefully remove the CBT 70JE-1 extension from its packaging. Verify that all components are present and undamaged. The package should include the extension module and a coupler plate.

2.2 Physical Dimensions



Image 2.1: Dimensions of the CBT 70JE-1 extension (9.3"D x 6.7"W x 24.7"H).

2.3 Mounting the Extension

The CBT 70JE-1 is designed to be mounted as an extension to the CBT 70J-1 unit. It is typically wall-mounted. Use the provided coupler plate to securely attach the CBT 70JE-1 to the CBT 70J-1. Ensure all mounting hardware is tightened appropriately to prevent movement or detachment.

1. Align the CBT 70JE-1 extension with the bottom of the CBT 70J-1 main unit.
2. Secure the two units together using the included coupler plate and appropriate fasteners.
3. Ensure the combined array is firmly attached to the wall using a compatible wall mount bracket (e.g., swivel (pan)/tilt wall bracket, if not already installed with the main unit).
4. Verify stability before proceeding with wiring.



Image 2.2: Example of speaker connection points (actual appearance may vary).

2.4 Wiring

The CBT 70JE-1 is a wired extension. Connect the CBT 70JE-1 in parallel with the CBT 70J-1 main unit. Refer to the wiring diagrams provided with the CBT 70J-1 main unit for specific connection instructions. Ensure all connections are secure and correctly polarized to maintain optimal audio performance and prevent damage.

3. OPERATION

Once installed and wired, the CBT 70JE-1 operates in conjunction with the CBT 70J-1. The extension module's built-in crossover network ensures proper frequency distribution between the main unit and the extension.

3.1 Powering On

The CBT 70JE-1 draws power through its connection to the CBT 70J-1. Ensure the main CBT 70J-1 unit is properly connected to its power source and turned on according to its instruction manual.

3.2 Adjusting Settings

Any adjustments to the overall sound, such as volume, equalization, or other audio processing, should be made via the control system connected to the CBT 70J-1 main unit. The CBT 70JE-1 extension does not have independent controls.

3.3 Audio Output

The combined CBT 70J-1/JE-1 array provides a mono audio output with enhanced bass response and consistent sound distribution, suitable for outdoor events, spacious indoor areas, and environments requiring consistent sound distribution.

4. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your JBL Professional CBT 70JE-1 extension.

- **Cleaning:** Use a soft, dry cloth to wipe down the exterior of the speaker. Avoid using abrasive cleaners, solvents, or excessive moisture, as these can damage the finish or internal components.

- **Inspections:** Periodically check all mounting hardware and cable connections for tightness and wear. Re-tighten as necessary.
- **Environment:** While the speaker has a water-resistant rating, avoid direct exposure to heavy rain or extreme environmental conditions to prolong its lifespan.

5. TROUBLESHOOTING

If you encounter issues with your CBT 70JE-1 extension, consider the following basic troubleshooting steps:

- **No Sound:**
 - Ensure the CBT 70J-1 main unit is powered on and receiving an audio signal.
 - Check all wired connections between the CBT 70JE-1 and CBT 70J-1 for secure contact and correct polarity.
 - Verify that the audio source is functioning correctly.
- **Distorted Sound:**
 - Reduce the input level to the CBT 70J-1 main unit to prevent clipping.
 - Check for damaged cables or loose connections.
 - Ensure the speaker is not being overdriven beyond its 500-Watt power handling capacity.
- **Physical Instability:**
 - Immediately re-secure any loose mounting hardware.
 - Consult a professional installer if the mounting appears compromised.

For more complex issues, refer to the comprehensive manual for the CBT 70J-1 main unit or contact JBL Professional support.

6. TECHNICAL SPECIFICATIONS

Feature	Specification
Brand	JBL
Model Number	CBT 70JE-1 (Extension for CBT 70J-1)
Speaker Type	Line Array Column Extension
Components	Four 125 mm (5 in) high-power LF drivers
Speaker Maximum Output Power	500 Watts (continuous pink noise)
Impedance	8 Ohms
Frequency Response (combined with CBT 70J-1)	45 Hz – 20 kHz
Connectivity Technology	Wired
Audio Output Mode	Mono
Mounting Type	Wall Mount
Enclosure Material	Acrylonitrile Butadiene Styrene (ABS), Aluminum, Fiberglass
Color	Black
Water Resistance Level	Water Resistant
Item Dimensions (D x W x H)	9.3" x 6.7" x 24.7"
Item Weight	21 Pounds
Included Accessories	Coupler plate
UPC	050036904216

7. WARRANTY AND SUPPORT

7.1 Warranty Information

The JBL Professional CBT 70JE-1 Line Array Column Speaker Extension comes with a Limited Warranty. For complete details regarding warranty coverage, terms, and conditions, please refer to the manufacturer's official website or the warranty card included with your product.

7.2 Customer Support

For technical assistance, service, or additional product information, please contact JBL Professional customer support. You can find contact details and further resources on the official JBL Professional website: www.jblpro.com.