

## EMB EC12

# EMB Professional EC12 12-inch 700W Cabinet Speaker System User Manual

Model: EC12

## 1. INTRODUCTION

Thank you for choosing the EMB Professional EC12 12-inch 700W Cabinet Speaker System. This manual provides essential information for the safe and efficient operation of your speaker system. Please read this manual thoroughly before use and retain it for future reference.

## 2. SAFETY INSTRUCTIONS

- **Power Source:** Ensure the speaker is connected to a power source that matches the voltage requirements specified on the unit.
- **Ventilation:** Do not block ventilation openings. Ensure adequate airflow around the speaker to prevent overheating.
- **Water and Moisture:** Do not expose the speaker to rain, moisture, or excessive humidity. Keep liquids away from the unit.
- **Placement:** Place the speaker on a stable, level surface. Avoid placing it near heat sources or in direct sunlight.
- **Servicing:** Do not attempt to service this product yourself. Refer all servicing to qualified service personnel.
- **Hearing Protection:** Prolonged exposure to high volume levels can cause permanent hearing damage. Use appropriate hearing protection.

## 3. FEATURES

The EMB Professional EC12 speaker system is designed for robust audio performance. Key features include:

- 12-inch Subwoofer for deep bass response.
- Horn Tweeter for clear high-frequency reproduction.
- 700W Maximum Power Output for powerful sound.
- 8 Ohm Impedance for compatibility with various amplifiers.
- Dual 1/4" and Dual Speakon Input Ready for versatile connectivity.
- Frequency Response: 45Hz - 20kHz.



Figure 1: Front view of the EMB Professional EC12 Cabinet Speaker System. This image displays the 12-inch woofer with its protective grille, the horn tweeter, and three smaller tweeters above it. The speaker cabinet is black with a textured finish, and the EMB logo is visible near the bottom.

## 4. SETUP

1. **Unpacking:** Carefully remove the speaker from its packaging. Inspect for any signs of damage during transit.
2. **Placement:** Position the speaker on a stable, flat surface. For optimal sound dispersion, consider placing it at ear level or slightly above, depending on the venue.
3. **Connections:**
  - Connect your audio source (e.g., amplifier, mixer) to the speaker's input terminals. The EC12 supports both **Dual 1/4" (TS)** and **Dual Speakon** connectors.
  - Ensure all connections are secure to prevent signal loss or intermittent sound.
  - Always turn off your amplifier or mixer before making or changing connections to avoid damage to your equipment.
4. **Power:** Once all audio connections are made, connect the speaker to a suitable power outlet if it is an active (powered) speaker, or ensure your amplifier is powered on if it is a passive speaker. *(Note: The product description implies a passive cabinet speaker, so power connection refers to the amplifier.)*

## 5. OPERATING INSTRUCTIONS

- Initial Power On:** With all connections secure and the amplifier volume set to minimum, power on your amplifier.
- Volume Adjustment:** Gradually increase the volume on your amplifier to the desired listening level. Avoid setting the volume too high, which can cause distortion and potential damage to the speaker.
- Sound Check:** Play a familiar audio track to check the sound quality. Adjust equalizer settings on your mixer or amplifier as needed.
- Power Off:** When finished, reduce the amplifier volume to minimum before powering off the amplifier.

## 6. MAINTENANCE

- Cleaning:** Use a soft, dry cloth to clean the exterior of the speaker. Do not use abrasive cleaners, solvents, or waxes.
- Storage:** When not in use for extended periods, store the speaker in a cool, dry place, away from direct sunlight and extreme temperatures.
- Inspection:** Periodically check cables and connections for wear or damage. Replace any damaged cables immediately.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No sound from speaker	Amplifier not powered on. Incorrect or loose cable connections. Amplifier volume too low. Faulty audio source.	Ensure amplifier is powered on. Check all audio cables and connections. Increase amplifier volume gradually. Test with a different audio source.
Distorted sound	Amplifier volume too high (clipping). Incorrect impedance matching. Damaged speaker component.	Reduce amplifier volume. Ensure amplifier output impedance matches speaker (8 Ohm). Contact qualified service personnel.

## 8. SPECIFICATIONS

Feature	Detail
Model	EC12
Woofers	12" Subwoofer
Driver	Horn Tweeter
Impedance	8 Ohm

Feature	Detail
Frequency Response	45Hz - 20kHz
Maximum Power Output	700 Watts
Inputs	Dual 1/4" (TS), Dual Speakon
Item Weight	34.3 Pounds

## 9. WARRANTY AND SUPPORT

---

This EMB Professional EC12 speaker system comes with a **1-year limited warranty** from the date of purchase. This warranty covers manufacturing defects and workmanship under normal use. For technical support, warranty claims, or service inquiries, please contact EMB Professional customer service. Please have your model number (EC12) and proof of purchase available when contacting support. *Note: Warranty terms may vary by region. Please refer to the official EMB Professional website or your local distributor for detailed warranty information.*