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## Yamaha BR12

# Yamaha BR12 12-Inch 2-Way Loudspeaker System Instruction Manual

Model: BR12

Brand: Yamaha

## 1. INTRODUCTION

This manual provides essential information for the safe and effective operation of your Yamaha BR12 12-Inch 2-Way Loudspeaker System. Please read it thoroughly before using the product and retain it for future reference.

The BR12 is a trapezoid-shaped loudspeaker cabinet designed for sound reinforcement applications. It features a robust construction with steel corner protectors, a steel grille, and an oversized steel handle for durability and portability. The system incorporates a specially designed 12-inch Eminence® woofer for smooth response and high power handling, complemented by a 1-inch compression driver with a 90x40 degree CD type horn for broad high-frequency coverage. The jackplate includes two heavy-duty 1/4-inch jacks, allowing for daisy-chaining to additional cabinets.



Figure 1: Yamaha BR12 12-Inch 2-Way Loudspeaker System. This image displays the front view of the black trapezoid-shaped loudspeaker with a metal grille and the Yamaha logo at the bottom.

## 2. KEY FEATURES

- **12-inch High Power Woofer:** Delivers robust low-frequency response.
- **1-inch Compression Driver with 90x40 CD Horn:** Provides clear and wide high-frequency dispersion.
- **300 W Program / 600W Peak Power Handling:** Ensures reliable performance under demanding conditions.
- **Built-in Pole Socket:** Allows for convenient stand mounting.
- **97dB Sensitivity:** Efficient power conversion for high output.
- **Durable Construction:** Trapezoid cabinet with steel corner protectors, steel grille, and oversized steel handle.
- **Daisy-Chain Capability:** Two heavy-duty 1/4-inch jacks for connecting multiple cabinets.

## 3. SETUP

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### 3.1 Initial Placement

Position the BR12 loudspeaker in a stable location. The trapezoid design allows for versatile placement, including floor monitoring or stand mounting using the built-in pole socket.

### 3.2 Connecting Audio Sources

The BR12 features two heavy-duty 1/4-inch jacks on its jackplate. These can be used to connect your audio source (e.g., mixer, amplifier) to the loudspeaker. Ensure all connections are secure before powering on your equipment.

### 3.3 Daisy-Chaining Multiple Loudspeakers

To connect multiple BR12 loudspeakers, use the two 1/4-inch jacks for daisy-chaining. Connect the output of one loudspeaker to the input of the next. Ensure that the total impedance of the connected loudspeakers is compatible with your amplifier's output specifications.

Your browser does not support the video tag.

Video 1: General Setup Guide for Stage Monitors. This video provides a general overview of setting up stage monitors, including connecting cables and positioning. While not specific to the BR12, the principles of connecting passive loudspeakers are applicable.

## 4. OPERATING

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### 4.1 Powering On/Off

Connect the loudspeaker to a suitable power amplifier. Ensure the amplifier's volume is set to minimum before powering on the amplifier and then the loudspeaker. Reverse this order when powering off (loudspeaker first, then amplifier).

### 4.2 Volume Adjustment

Adjust the volume levels primarily from your mixing console or amplifier. The BR12 has a high sensitivity of 97dB, meaning it can produce significant sound output with relatively low power input. Monitor your amplifier's output levels to prevent clipping or distortion.

### 4.3 Signal Monitoring

Listen for clear, undistorted sound. If you hear any crackling, buzzing, or harsh sounds, immediately reduce the volume and check all connections. The BR12 is designed for 300W program and 600W peak power handling; exceeding these limits can damage the speaker.

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Video 2: Loudspeaker Control Panel Overview. This video provides a brief look at the control panel of a loudspeaker, demonstrating various knobs and input options. It highlights the ease of use for balancing different audio sources.

## 5. MAINTENANCE

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### 5.1 Cleaning

Regularly clean the exterior of the loudspeaker with a soft, dry cloth. Avoid using abrasive cleaners, solvents, or excessive moisture, as these can damage the finish or internal components. Keep the steel grille free of dust and debris to ensure optimal sound projection.

### 5.2 Storage

When not in use, store the loudspeaker in a cool, dry environment, away from direct sunlight, extreme temperatures, and high humidity. If transporting, use appropriate protective covers or cases to prevent physical damage.

## 6. TROUBLESHOOTING

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### 6.1 No Sound

- Check all power connections to the amplifier and ensure it is powered on.
- Verify that all audio cables (1/4-inch jacks) are securely connected between the source, amplifier, and loudspeaker.
- Ensure the volume levels on your audio source and amplifier are not set to minimum or muted.
- Test with a different audio source or cable to rule out faulty equipment.

### 6.2 Distorted Sound

- Reduce the volume level on your audio source and amplifier. Overdriving the input can cause distortion.
- Check for damaged cables or loose connections.
- Ensure the amplifier's output impedance matches the loudspeaker's impedance.
- Avoid exceeding the loudspeaker's power handling capabilities (300W program / 600W peak).

## 7. SPECIFICATIONS

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Feature	Specification
Model Name	BR12
Speaker Type	2-Way Loudspeaker
Woofer Diameter	12 Inches
Tweeter Diameter	1 Inches (Compression Driver)
Power Handling (Program)	300 Watts
Power Handling (Peak)	600 Watts
Sensitivity	97 dB

Horn Dispersion	90x40 degrees (CD Type)
Connectivity Technology	Auxiliary, RCA (via 1/4" jacks)
Material	Metal, Plastic (Cabinet)
Shape	Trapezoid
Item Weight	35.2 pounds (16 Kilograms)
Product Dimensions	21.65 x 14.57 x 12.2 inches
Mounting Type	Floor Standing (with built-in pole socket)

## 8. WARRANTY

The Yamaha BR12 Loudspeaker System comes with a Limited Warranty. Please refer to the warranty card included with your product for specific terms and conditions, or contact Yamaha customer support for details.

## 9. SUPPORT

For technical assistance, troubleshooting, or service inquiries, please contact Yamaha customer support. You can find contact information on the official Yamaha website or in the product packaging.