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Model: MR652C

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1. INTRODUCTION

The BOSS Audio Systems MR652C is a 6.5-inch, two-way marine component speaker system designed for audio reproduction in marine environments. This system delivers 350 watts peak power handling per pair, providing full-range sound. The MR652C features detachable tweeters and crossovers, allowing for flexible installation as a component set. Its major components are specially coated to resist corrosion in humid and salty conditions, making it water-resistant, though not fully waterproof.



Figure 1: Front view of the MR652C marine speaker with its protective grille.

2. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and longevity of your MR652C speakers. Due to the complexity of marine audio systems and the specific requirements for component speaker setups, professional installation is strongly recommended. This section provides general guidelines.

2.1 Unpacking and Inspection

- Carefully remove all components from the packaging.
- Verify that all items listed in the "What's in the Box" section are present.
- Inspect speakers and components for any signs of damage from shipping.

What's in the Box:

- MR652C Marine Speakers (Pair)
- Detachable Tweeters
- Crossovers
- Mounting Hardware (screws, clips)

2.2 Mounting Location Considerations

- Choose a location that allows for proper sound dispersion and minimizes exposure to direct water spray.
- Ensure sufficient depth and clearance behind the mounting surface for the speaker magnet and wiring.
- For component setup, consider optimal placement for tweeters to achieve desired sound imaging.



Figure 2: Example of MR652C speaker installation in a marine environment.

2.3 Wiring Instructions

The MR652C is a 2-way component system, meaning it includes separate woofers and tweeters, connected via external crossovers. Correct wiring is essential to prevent damage and ensure proper sound. Refer to the wiring diagram provided with your product for specific connections.

1. **Speaker Wire Selection:** Use appropriate gauge marine-grade speaker wire for your installation.
2. **Crossover Connection:** Connect the speaker wires from your amplifier to the input terminals of the passive crossover.
3. **Woofers Connection:** Connect the output from the crossover labeled "Woofers" or "Mid-Bass" to the terminals on the 6.5-inch speaker.
4. **Tweeter Connection:** Connect the output from the crossover labeled "Tweeter" to the terminals on the detachable tweeter.
5. **Polarity:** Ensure correct polarity (+ to + and - to -) for all connections to avoid phase issues and poor sound quality.
6. **Secure Connections:** Use crimp connectors or solder connections and insulate them with marine-grade heat shrink tubing to prevent corrosion and short circuits.



Figure 3: Rear view of the MR652C speaker, illustrating connection points.



Figure 4: MR652C woofer component without grille, part of the component system.

3. OPERATION

The MR652C speakers are passive components and do not require direct power. Their operation is dependent on the connected amplifier and head unit. Once properly installed and wired, they will reproduce audio signals from your marine stereo system.

- Ensure your marine head unit and amplifier are powered on.
- Adjust volume levels gradually to prevent speaker damage.
- Utilize the balance and fader controls on your head unit to optimize sound staging.
- Avoid prolonged listening at extremely high volumes, which can lead to distortion and potential speaker damage.

4. MAINTENANCE

While the MR652C speakers are designed for marine environments and are water-resistant, regular maintenance will extend their lifespan and maintain performance.

- **Cleaning:** Periodically wipe down the speaker grilles and surrounds with a soft, damp cloth. Avoid harsh chemicals or abrasive cleaners.
- **Saltwater Exposure:** After exposure to saltwater, gently rinse the speakers with fresh water to remove salt

residue. Allow them to air dry completely.

- **Inspection:** Regularly inspect the speaker cones, surrounds, and grilles for any signs of wear, tear, or corrosion. Check wiring connections for tightness and corrosion.
- **Protection:** When the boat is not in use, consider covering the speakers to protect them from prolonged UV exposure and environmental elements.

5. TROUBLESHOOTING

If you experience issues with your MR652C speakers, refer to the following common troubleshooting steps. If problems persist, contact professional audio service or BOSS Audio Systems support.

5.1 No Sound from Speakers

- **Check Amplifier:** Ensure the amplifier connected to the speakers is powered on and functioning correctly.
- **Check Head Unit:** Verify the marine head unit is on, playing audio, and not muted.
- **Wiring Connections:** Inspect all speaker wire connections at the amplifier, crossover, and speakers for looseness, corrosion, or incorrect polarity.
- **Crossover Function:** Ensure the passive crossovers are correctly wired and not damaged.

5.2 Distorted or Poor Sound Quality

- **Volume Level:** Reduce the volume on your head unit and amplifier. Distortion often occurs when the amplifier is overdriven.
- **Gain Settings:** Check the gain settings on your amplifier. Incorrect gain settings can lead to distortion.
- **Wiring:** Re-check all wiring for correct polarity. Incorrect polarity can cause phase issues and poor bass response.
- **Speaker Damage:** Inspect the speaker cones and surrounds for any physical damage, tears, or debris. Listen for any rattling or buzzing sounds that might indicate internal damage or loose components.
- **Source Quality:** Ensure the audio source (e.g., MP3, radio) is of good quality.

5.3 Intermittent Sound

- **Loose Connections:** Check all wiring connections for looseness. Vibration in a marine environment can cause connections to become loose over time.
- **Corrosion:** Inspect terminals and wire ends for corrosion, especially in saltwater environments. Clean or replace corroded components.
- **Faulty Wire:** A damaged or frayed speaker wire can cause intermittent sound.

6. SPECIFICATIONS

The following table outlines the key technical specifications for the BOSS Audio Systems MR652C Marine Component Speaker System.

Feature	Specification
Model Name	MR652C
Speaker Type	2-way component speaker system
Speaker Size	6.5 Inches

Feature	Specification
Peak Power Handling (Per Pair)	350 Watts
Impedance	4 Ohms
Frequency Response	60 Hz - 20 kHz
System Sensitivity (1 W/1 m)	92 dB
Cone Material	Poly Injection (Polypropylene)
Voice Coil	1-1/2-inch Aluminum (Single 1")
Surround Material	Rubber
Tweeter Type	1-inch Mylar Dome
Special Feature	Weatherproof (Water Resistant)
Product Dimensions (D x W x H)	6.93"D x 6.93"W x 3.94"H
Item Weight (Pair)	4.44 Pounds
Material	Plastic
Included Components	Speakers
Manufacturer	BOSS Audio Systems

7. WARRANTY AND SUPPORT

BOSS Audio Systems provides a **3-year platinum online dealer warranty** for this product when purchased through authorized channels. This warranty covers defects in materials and workmanship under normal use. For warranty claims, technical assistance, or further support, please contact BOSS Audio Systems directly or refer to their official website for detailed warranty terms and contact information.

Contact Information:

- **Manufacturer:** BOSS Audio Systems
- **Website:** www.bossaudio.com (Note: This is a general placeholder, please refer to your product documentation for the exact support website.)