

DD Audio MC-106B

DD Audio MC-106B 6.5" Marine Tower Speakers User Manual

Model: MC-106B

INTRODUCTION

The DD Audio MC-106B 6.5-inch marine tower speakers are engineered for high-output audio performance in demanding outdoor and marine environments. Featuring a robust design, these speakers are equipped with remote-controlled multifunction RGB LEDs for aesthetic enhancement. This manual provides essential information for the proper installation, operation, and maintenance of your MC-106B speakers to ensure optimal performance and longevity.

SAFETY INFORMATION

Please read all instructions carefully before installation and use. Failure to follow these guidelines may result in damage to the product, property, or personal injury.

- Always disconnect the vehicle's or vessel's battery before beginning any electrical work.
- Ensure all wiring is properly insulated and secured to prevent short circuits and damage.
- Mount speakers securely to a stable surface to prevent detachment during operation, especially in moving vehicles or vessels.
- Avoid exposing speakers to extreme temperatures or direct prolonged sunlight beyond their operational limits.
- Do not attempt to disassemble or repair the speakers yourself. Refer all servicing to qualified personnel.
- Use appropriate personal protective equipment during installation.

PACKAGE CONTENTS

Verify that all items are present in the package:

- DD Audio MC-106B Marine Tower Speakers (Pair)
- Remote control for RGB LEDs
- Mounting bolts and hardware

SETUP AND INSTALLATION

Proper installation is crucial for the performance and durability of your MC-106B speakers.

Mounting

The MC-106B speakers feature a reinforced ABS injected cabinet with an integrated metal clamp. This clamp offers a 45-degree locking tilt for secure and long-lasting mountability on various structures such as roll bars or wakeboard towers.

1. **Select Mounting Location:** Choose a location that provides clear sound projection and does not obstruct visibility or movement. Ensure the mounting surface is strong enough to support the speaker's weight and withstand vibrations.
2. **Secure the Clamp:** Attach the integrated metal clamp to the desired bar or surface. Use the provided mounting bolts and hardware to tighten the clamp securely.
3. **Adjust Angle:** Utilize the 45-degree locking tilt mechanism to angle the speakers for optimal sound dispersion towards the listening area. Once the desired angle is achieved, tighten all adjustment points to lock the speakers in place.



Image: Side-rear view of two DD Audio MC-106B speakers, illustrating the mounting bracket.

Wiring

Proper wiring is essential for both audio performance and the RGB LED functionality.

1. **Audio Wiring:** Connect the speaker wires to your amplifier. Ensure correct polarity (+ to + and - to -) for each speaker. The MC-106B speakers have an impedance of 4 ohms.
2. **RGB LED Wiring:** The RGB LEDs require a separate power connection and are controlled via the included remote. Connect the LED power wires to a suitable 12V DC power source, preferably one that can be switched on and off independently or with your audio system.
3. **Cable Management:** Route all cables away from moving parts and heat sources. Use cable ties or clamps to secure wiring, preventing chafing or accidental disconnection.



Image: Front view of two DD Audio MC-106B speakers with active RGB LED lighting.

OPERATING INSTRUCTIONS

Audio Playback

Once properly installed and connected to an amplifier and audio source, operate your speakers as follows:

1. Ensure your amplifier is powered on and the audio source (e.g., head unit, media player) is active.
2. Start with the amplifier's volume at its lowest setting and gradually increase it to a comfortable listening level.
3. Adjust bass, treble, and balance settings on your audio source or amplifier to achieve your preferred sound profile.

RGB LED Control

The integrated RGB LEDs in the speaker grilles and rear logo panels are controlled by the included remote control.

- **Power On/Off:** Use the designated power button on the remote to turn the LEDs on or off.
- **Color Selection:** The remote allows you to select various static colors. Press the color buttons to cycle through available options.
- **Mode Selection:** Several dynamic lighting modes (e.g., flashing, fading, strobing) can be selected using the mode buttons.
- **Brightness/Speed Adjustment:** Adjust the brightness of static colors or the speed of dynamic modes using the dedicated buttons on the remote.

MAINTENANCE

Regular maintenance helps preserve the appearance and performance of your marine tower speakers.

- **Cleaning:** Clean the speaker enclosures and grilles with a soft, damp cloth. For stubborn dirt, use a mild soap solution and rinse thoroughly with fresh water. Avoid abrasive cleaners or solvents.
- **Inspection:** Periodically inspect all mounting hardware and wiring connections. Ensure all bolts are tight and wiring is free from corrosion or damage.
- **Environmental Care:** While designed for harsh environments, prolonged exposure to direct sunlight, salt spray, or extreme weather conditions can accelerate wear. Consider using protective covers when the speakers are not in use for extended periods.

TROUBLESHOOTING

If you encounter issues with your MC-106B speakers, refer to the following common troubleshooting steps:

- **No Sound:**
 - Check all audio connections from the amplifier to the speakers for proper seating and polarity.
 - Verify that the amplifier is powered on and receiving an audio signal from the source unit.
 - Ensure the volume on both the amplifier and source unit is turned up.
- **Distorted Sound:**

- Reduce the volume level on your amplifier or source unit.
- Check for loose speaker wires or damaged cones.
- Ensure the amplifier's gain settings are not set too high.

- **RGB LEDs Not Working:**

- Verify that the LED power wires are correctly connected to a 12V DC source and receiving power.
- Check the remote control's battery.
- Ensure there are no obstructions between the remote and the LED receiver.

- **Intermittent Sound:**

- Inspect all wiring for loose connections, corrosion, or damage.
- Check for any short circuits in the wiring.

SPECIFICATIONS

Feature	Specification
Model Name	MC-106B
Speaker Size	6.5 Inches
Tweeter Size	1 Inch
RMS Power	100 Watts
Impedance	4 Ohms
VCD (Voice Coil Diameter)	1 Inch
Frequency Response	100 Hz - 20 kHz
Fs (Resonant Frequency)	100 Hz
dB SPL (Sensitivity)	95 dB
Xmax (Linear Excursion)	8 MM
Suspension Travel	16 MM
Mounting Diameter	7.75 Inches (197 MM)
Mounting Depth	8.75 Inches (222 MM)
Speaker Type	Coax Tower Speakers
Control Method	Remote (for RGB LEDs)
Item Weight	14 Pounds (per pair)
Audio Driver Type	Dynamic Driver

Feature	Specification
Specific Uses	Marine and outdoor audio setups

WARRANTY INFORMATION

DD Audio provides a **1-Year Limited Warranty** for the MC-106B marine tower speakers from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage resulting from improper installation, accident, misuse, abuse, neglect, unauthorized repair or modification, or environmental factors.

Please retain your proof of purchase for warranty claims.

SUPPORT

For technical assistance, troubleshooting beyond the scope of this manual, or to inquire about warranty service, please contact DD Audio customer support. Refer to the official DD Audio website for the most current contact information and support resources.

DD Audio Official Website: ddaudio.com