

Magnadyne WR50B

Magnadyne 5" Water Resistant Slim Profile Dual Cone Speakers

Model: WR50B

Instruction Manual

1. INTRODUCTION

Thank you for choosing Magnadyne 5" Water Resistant Slim Profile Dual Cone Speakers. These speakers are engineered to deliver high-quality audio in various environments, including RVs, boats, and outdoor settings. Their durable, water-resistant design and slim profile make them a versatile choice for enhancing your audio experience.

Key Features:

- **Powerful Sound, Compact Design:** Features a 2.8 oz. magnet and 25-watt power handling with a slim 1" mounting depth.
- **Weather-Resistant Durability:** Constructed with a full plastic encasement, integrated UV-protected grill, and water-resistant design.
- **Wide Range Audio Fidelity:** Offers a frequency response of 90Hz - 17kHz for comprehensive sound.
- **Seamless System Integration:** 4 Ohm impedance for broad compatibility with audio systems.
- **Versatile Application:** Suitable for car audio, home theater, RVs, marine vessels, and outdoor entertainment.



Image 1.1: A pair of Magnadyne 5-inch black water-resistant speakers, showcasing their sleek design and protective grilles.

2. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and longevity of your speakers. Please follow these guidelines carefully.

2.1 Mounting Considerations

- **Mounting Type:** These speakers are designed for flush mount installation.
- **Mounting Depth:** The slim profile requires only a 1-inch mounting depth, allowing for installation in tight spaces.
- **Cutout Required:** A 4 3/8-inch (approximately 11.1 cm) cutout is necessary for proper fitting.
- **Impedance:** The speakers have a 4 Ohm impedance, compatible with most standard audio systems.
- **Connectivity:** Wired coaxial connection. Ensure proper polarity when connecting to your audio source.



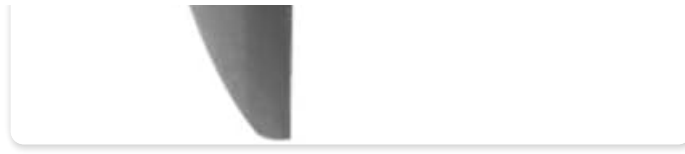


Image 2.1: Side profile view of the Magnadyne speaker, highlighting its slim 1-inch mounting depth for versatile installation.

WR50B-PAIR, WR50W-PAIR

- 5" Waterproof Speaker
- 1" Shallow Mounting Depth
- 5 oz. Magnet Weight
- 25 Watts Maximum Power Handling
- 4 Ohm Impedance
- 90 - 17kHz Frequency Response
- 1" Mounting Depth
- 4 3/8" Cutout Required
- Full Plastic Encasement Frame with Integrated Grill
- Ultraviolet Protection

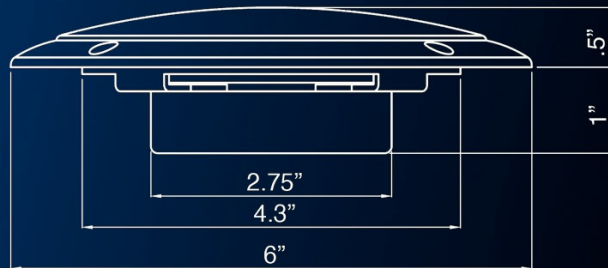


Image 2.2: Technical diagram illustrating the dimensions and cutout requirements for the Magnadyne WR50B speakers.

2.2 Wiring Instructions

1. Identify the positive (+) and negative (-) terminals on both the speaker and your audio system.
2. Connect the positive wire from your audio system to the positive terminal on the speaker.
3. Connect the negative wire from your audio system to the negative terminal on the speaker.
4. Ensure all connections are secure to prevent signal loss or short circuits.



Image 2.3: Rear view of the Magnadyne speaker, showing the clearly marked positive and negative wiring terminals for easy connection.

3. OPERATING THE SPEAKERS

Once installed, your Magnadyne speakers are ready to deliver clear and robust audio. These speakers are designed for a wide range of applications and environments.

3.1 Recommended Uses

- **RV Audio Systems:** Enhance your recreational vehicle's sound system for an immersive travel experience.
- **Marine Audio:** Perfect for boats and other marine vessels, providing reliable sound even in damp conditions.
- **Outdoor Entertainment:** Ideal for patios, decks, or other outdoor areas where weather resistance is important.
- **General Audio:** Can be integrated into various home or vehicle audio setups requiring compact, durable

speakers.



Image 3.1: Boats cruising on the water, illustrating the marine application suitability of the speakers.



Image 3.2: An RV parked beside a lake, demonstrating the speakers' ideal use in recreational vehicles.

3.2 Audio Performance

- **Frequency Response:** Enjoy a full range of sound with a frequency response from 90Hz (bass) to 17kHz (treble).
- **Audio Output Mode:** The speakers provide stereo audio output when connected to a compatible stereo system.
- **Power Handling:** Capable of handling up to 25 Watts maximum power, ensuring clear sound without distortion at reasonable volumes.

4. MAINTENANCE AND CARE

To ensure the longevity and continued performance of your Magnadyne water-resistant speakers, follow these simple maintenance tips.

- **Cleaning:** Wipe the speaker grilles and surfaces with a soft, damp cloth. Avoid using harsh chemicals or abrasive cleaners, which can damage the plastic encasement and UV protection.
- **Water Resistance:** While water-resistant, these speakers are not designed for submersion. Avoid direct high-pressure water jets. Ensure proper installation to prevent water ingress into the mounting area.
- **UV Protection:** The integrated UV-protected grill helps prevent degradation from sun exposure. Regular cleaning helps maintain its effectiveness.
- **Inspection:** Periodically check wiring connections for corrosion or looseness, especially in marine or outdoor environments.

5. TROUBLESHOOTING

If you encounter issues with your speakers, refer to the following common troubleshooting steps.

5.1 No Sound or Low Sound

- **Check Connections:** Ensure all speaker wires are securely connected to both the speakers and the audio source (amplifier, head unit, etc.). Verify correct positive (+) and negative (-) polarity.
- **Audio Source:** Confirm that your audio source is powered on and functioning correctly. Test with another audio device if possible.
- **Volume Levels:** Ensure the volume on your audio source is turned up and not muted.
- **Balance/Fader Settings:** Check the balance and fader settings on your audio system to ensure sound is directed to all speakers.

5.2 Distorted Sound

- **Volume Level:** Reduce the volume. Distortion often occurs when the audio source or amplifier is overdriven.
- **Power Handling:** Ensure the amplifier's output power does not exceed the speaker's maximum power handling (25 Watts).
- **Impedance Mismatch:** Verify that the amplifier's output impedance matches the speaker's 4 Ohm impedance.
- **Loose Connections:** Check for any loose or frayed wires that could cause interference.

5.3 One Speaker Not Working

- **Swap Speakers:** If possible, swap the non-working speaker with a known working one to determine if the issue is with the speaker itself or the wiring/audio channel.
- **Check Wiring:** Inspect the wiring for the affected speaker for any breaks, shorts, or loose connections.

If these steps do not resolve the issue, please contact Magnadyne customer support for further assistance.

6. SPECIFICATIONS

Detailed technical specifications for the Magnadyne 5" Water Resistant Slim Profile Dual Cone Speakers (Model WR50B).

Feature	Specification
Model Name	WR50B
Speaker Type	Dual Cone
Mounting Type	Flush Mount
Material	Plastic (Full Plastic Encasement)
Color	Black
Speaker Size	5 Inches
Impedance	4 Ohm
Speaker Maximum Output Power	25 Watts
Frequency Response	90Hz - 17kHz
Product Dimensions (D x W x H)	1"D x 6.42"W x 1"H (Overall)
Mounting Depth	1 Inch
Cutout Required	4 3/8 Inches
Item Weight (per speaker)	0.64 Pounds (1.28 Pounds for pair)
Water Resistance	Yes (Water Resistant)
Special Features	Marine Speaker, OEM Speaker, RV Speaker, Slim Profile, UV Protected Grill
Included Components	2 Speakers

7. WARRANTY AND SUPPORT

Magnadyne stands behind the quality of its products.

7.1 Warranty Information

These speakers come with a **Limited Warranty**. Please refer to the warranty card included with your purchase or visit the official Magnadyne website for specific terms and conditions regarding coverage and duration.

7.2 Customer Support

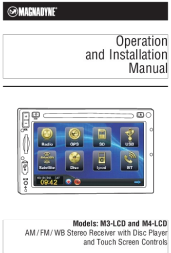



For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact Magnadyne customer support:

- **Manufacturer:** Magnadyne
- **Online Support:** Visit the official Magnadyne website or their Amazon Brand Store for FAQs and contact information. [Magnadyne Amazon Brand Store](#)

Please have your product model number (WR50B) and purchase date available when contacting support.

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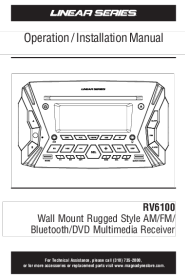
Related Documents - WR50B

	<p>Magnadyne M3-LCD & M4-LCD Operation and Installation Manual</p> <p>Comprehensive operation and installation manual for the Magnadyne M3-LCD and M4-LCD AM/FM/WB Stereo Receiver with Disc Player and Touch Screen Controls. Learn about features, setup, and troubleshooting.</p>
	<p>Magnadyne M9 10.2" Bluetooth Multi-Media Receiver User Manual</p> <p>Comprehensive user manual for the Magnadyne M9 10.2-inch Bluetooth Multi-Media Receiver, covering installation, operation, features like radio, USB/SD playback, Bluetooth, iPod/iPhone, SiriusXM, system settings, troubleshooting, and specifications.</p>
	<p>Magnadyne RV2458 Router Quickstart Guide</p> <p>A quickstart guide for the Magnadyne RV2458 Router, covering setup, Wi-Fi connection, and LTE data plan activation.</p>
	<p>Magnadyne M10 DVD Multimedia Internet Receiver User Manual</p> <p>Comprehensive user manual for the Magnadyne M10 DVD Multimedia Internet Receiver, detailing its features, operations, settings, and troubleshooting.</p>



[Magnadyne LS2CMW Series Speaker Installation Guide and Cutout Template](#)

Installation instructions and cutout template for Magnadyne LS2CMW series speakers, including models LS2CMW-BLK, LS2CMW-TN, and LS2CMW-JCO. Features dimensions and specifications for mounting.



[RV6100 Wall Mount Rugged Style AM/FM/ Bluetooth/DVD Multimedia Receiver Operation/Installation Manual](#)

This manual provides comprehensive operation and installation instructions for the Magnadyne RV6100 multimedia receiver. It details features such as AM/FM radio, USB playback, AUX inputs, Bluetooth connectivity, DVD playback, sound controls, app integration, installation procedures, wiring, troubleshooting, specifications, and warranty information.