

Magnadyne WR30W

Magnadyne WR30W 3-inch Water Resistant Speakers  
Instruction Manual

Model: WR30W-PAIR

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Magnadyne WR30W 3-inch Water Resistant Speakers. These speakers are designed for use in marine, recreational vehicle (RV), and hot tub environments, offering durability and sound performance in challenging conditions. Please read this manual thoroughly before installation and retain it for future reference.

2. SAFETY INFORMATION

- Always disconnect power to the audio system before installation or maintenance.
- Ensure proper wiring connections to prevent electrical shorts or damage to the speakers and audio system.
- Do not expose speakers to extreme temperatures or direct flame.
- Avoid using harsh chemicals or abrasive cleaners on the speaker surfaces.
- If you are unsure about any installation steps, consult a qualified professional.

3. WHAT'S IN THE BOX

- 2 x Magnadyne WR30W 3-inch Water Resistant Speakers
- 2 x Grill Covers
- 8 x Mounting Screws

4. SPECIFICATIONS

Feature	Specification
Model Name	WR30W-PAIR

Speaker Type	Woofer (Dual Cone)
Speaker Size	3 Inches
Maximum Output Power	50 Watts
Impedance	4 Ohm
Water Resistance Level	Water Resistant
Special Features	UV Resistant, Water-Resistant
Product Dimensions	2.16"D x 2.16"W x 2"H
Magnet Weight	2.8 oz.
Wire Leads	24-wire leads with .250 male terminals and in-line capacitor
Mounting Type	Flush Mount

## 5. SETUP AND INSTALLATION

The Magnadyne WR30W speakers feature a slim profile and universal mounting design for convenient installation in various applications.

### 5.1. Speaker Overview



*Figure 1: Front view of Magnadyne WR30W speakers.*



*Figure 2: Rear view of a Magnadyne WR30W speaker with wiring.*

## **5.2. Dimensions and Mounting**



Figure 3: Speaker diameter measurement (3.91 inches).

## WR30B-PAIR, WR30W-PAIR

- 3" polypropylene dual cone waterproof speaker
- 2.8 oz. magnet weight
- 50 watts maximum power handling
- 4 ohm impedance
- 120Hz-20kHz frequency response
- 1½" mounting depth
- Full plastic encasement frame with integrated grill
- 24" wire leads with .250 male terminals and in-line capacitor
- Ultraviolet protection

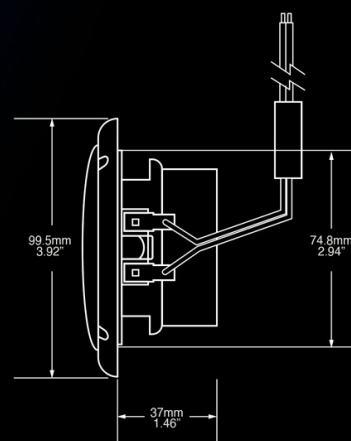


Figure 4: Detailed dimensions for speaker mounting.

Refer to the provided technical drawing for precise cutout and mounting hole dimensions. The speakers require a 1.5-inch mounting depth.

### 5.3. Wiring Connections

The speakers come with 24-wire leads equipped with .250 male terminals and an in-line capacitor. Connect



these leads to your audio system's speaker outputs, ensuring correct polarity (positive to positive, negative to negative) for optimal sound performance.



Figure 5: Speaker wire leads with terminals.

#### 5.4. Installation Environment

These speakers are suitable for various outdoor and semi-outdoor settings.



Figure 6: Speakers in a marine application.



Figure 7: Speakers in an RV or outdoor setting.



*Figure 8: Speakers in an ATV application.*

### 5.5. Installation Video Reference

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*Video 1: General installation guide for water resistant surface mount speakers (provided by Magnadyne Electronics).*

## 6. OPERATING INSTRUCTIONS

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Once properly installed and connected to an audio source, operate the speakers by controlling your audio system. Adjust volume levels and audio settings directly from your head unit or amplifier. Ensure that the audio system's output power does not exceed the speakers' maximum output power of 50 watts to prevent damage.

## 7. MAINTENANCE

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- **Cleaning:** Use a soft, damp cloth to clean the speaker grills and surfaces. Avoid using abrasive materials or chemical cleaners that could damage the UV-resistant and water-resistant properties.
- **Connection Check:** Periodically inspect all wiring connections to ensure they are secure and free from corrosion, especially in marine or high-humidity environments.
- **Environmental Exposure:** While water-resistant, prolonged exposure to direct sunlight or harsh weather conditions can affect the lifespan of any electronic device. Consider protective covers when the speakers are not in use for extended periods.

## 8. TROUBLESHOOTING

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- **No Sound:**
  - Check all wiring connections for proper contact and polarity.
  - Ensure the audio system is powered on and the volume is not muted or set too low.
  - Verify the audio source is functioning correctly.
- **Distorted Sound:**
  - Reduce the volume level on your audio system.
  - Check for loose wiring connections.
  - Ensure the speakers are not over-powered by the amplifier.

- **Intermittent Sound:**

- Inspect wiring for any breaks, pinches, or corrosion.
- Ensure secure connections at both the speaker and amplifier ends.

## **9. WARRANTY AND SUPPORT**

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These Magnadyne speakers come with a Limited Warranty. For specific warranty terms and conditions, please refer to the documentation included with your purchase or contact Magnadyne customer support. For technical assistance or further inquiries, please visit the official Magnadyne website or contact their support channels.