

Magnadyne LS-SUB-200

Magnadyne LS-SUB-200 8-inch Powered Subwoofer Instruction Manual

Model: LS-SUB-200

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Magnadyne LS-SUB-200 8-inch Powered Subwoofer. Please read this manual thoroughly before attempting to install or operate the unit to ensure optimal performance and safety. Keep this manual for future reference.

2. SAFETY INFORMATION

Observe the following safety precautions during installation and operation:

- **Electrical Safety:** Always disconnect the vehicle's battery negative terminal before beginning any electrical work. Ensure all wiring is correctly connected to prevent short circuits or damage.
- **Power Source:** This unit is designed for 12V DC automotive electrical systems. Do not attempt to connect it to other power sources.
- **Ventilation:** Ensure the subwoofer is installed in a location that allows for adequate ventilation to prevent overheating.
- **Mounting:** Securely mount the subwoofer to prevent it from shifting during vehicle movement, which could cause injury or damage.
- **Proposition 65 Warning:** This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

3. PACKAGE CONTENTS

Verify that all items are present upon unpacking:

- Magnadyne LS-SUB-200 8-inch Powered Subwoofer (Carbon Fiber Speaker Enclosure)
- Instruction Manual (this document)

4. PRODUCT OVERVIEW

The Magnadyne LS-SUB-200 is an 8-inch powered subwoofer designed to deliver deep, impactful bass in vehicles. It features a compact, ported enclosure and integrated amplification for easy installation and powerful performance.

Key Features:

- **Power Output:** 320 Watts Maximum Power, 80 Watts RMS @ 4 ohms (14.4VDC)
- **Woofers:** High-quality 8-inch woofer with IMPP cone
- **Enclosure:** Solid wood ported enclosure for enhanced bass response
- **Connectivity:** RCA line input with variable input level adjustment
- **Dimensions:** 19 inches (L) x 6.5 inches (W) x 9.5 inches (H)

Control Panel Layout:

The control panel is located on the rear of the subwoofer, providing access to all necessary adjustments and connections.



Image 4.1: Close-up view of the control panel on the Magnadyne LS-SUB-200 subwoofer, showing input level, bass frequency, speaker phase controls, RCA inputs, power/protect LED, fuse, and power terminals.

1. **Input Level (Min/Max):** Adjusts the input sensitivity to match the output level of your head unit.
2. **Bass Freq (50Hz-250Hz):** Controls the low-pass filter frequency. Frequencies above this setting will be attenuated.
3. **Spk Phase (Norm/180°):** Selects the phase of the subwoofer output. Use 180° if the bass sounds weak or out of phase with other speakers.
4. **Line Input (R/L RCA):** Connects to the RCA pre-out jacks of your head unit.
5. **Power / Protect LED:** Illuminates green when powered on, red if the amplifier is in protection mode.

- 6. 20A Fuse:** Protects the amplifier from electrical overloads. Replace only with a fuse of the same rating.
- 7. +12V Terminal:** Connects to the vehicle's positive battery terminal.
- 8. REM Terminal:** Connects to the remote turn-on lead from your head unit.
- 9. GND Terminal:** Connects to a solid chassis ground point on the vehicle.

5. INSTALLATION

Proper installation is crucial for the performance and longevity of your subwoofer. If you are unsure about any steps, consult a professional installer.

5.1 Placement

Choose a location that provides adequate space for the subwoofer and allows for proper ventilation. Common locations include the trunk of a car, under a seat (if space permits), or in the cargo area of an SUV or RV.



Image 5.1: Magnadyne LS-SUB-200 subwoofer installed in the trunk of a vehicle.



Image 5.2: Magnadyne LS-SUB-200 subwoofer positioned in a vehicle's cargo area.

5.2 Wiring Connections

Ensure all connections are secure and insulated to prevent short circuits.

1. **Power (+12V):** Connect the +12V terminal of the subwoofer to the positive terminal of the vehicle's battery. Use a minimum of 10 AWG wire for this connection. Install an in-line fuse (not included, typically 20A) within 18 inches of the battery.
2. **Ground (GND):** Connect the GND terminal to a clean, unpainted metal surface on the vehicle's chassis. Ensure a good electrical connection. Use a minimum of 10 AWG wire, keeping the length as short as possible.
3. **Remote Turn-On (REM):** Connect the REM terminal to the remote turn-on output of your head unit. This wire signals the subwoofer to turn on and off with your vehicle's audio system.
4. **Audio Input (RCA Line Input):** Connect the RCA line inputs (R and L) from the subwoofer to the RCA pre-out jacks of your head unit. If your head unit does not have RCA pre-outs, a line output converter (not included) may be required.

Note: Battery and ground wires must be 10AWG for proper performance.

6. OPERATION

Once installed, you can adjust the subwoofer's settings to optimize its performance with your vehicle's audio system.

6.1 Initial Power-Up

After all connections are made, reconnect the vehicle's battery. Turn on your head unit. The Power LED on the subwoofer's control panel should illuminate green, indicating it is receiving power and operating correctly.

6.2 Adjusting Controls

- **Input Level:** Start with the Input Level control set to minimum. Play a familiar piece of music with strong bass. Slowly increase the Input Level until the bass sounds balanced with the rest of your audio system, without distortion.
- **Bass Freq (Low Pass Filter):** Adjust the Bass Freq control to blend the subwoofer's output seamlessly with your main speakers. A common starting point is around 80-100Hz. If your main speakers are small, you might set it higher; if they are large, you might set it lower.
- **Speaker Phase:** Listen to the bass response from your normal listening position. Toggle the Spk Phase switch between 'Norm' and '180°'. Choose the setting that provides the strongest and most impactful bass. This corrects any phase cancellation issues between the subwoofer and your main speakers.

7. MAINTENANCE

The Magnadyne LS-SUB-200 subwoofer requires minimal maintenance.

- **Cleaning:** Use a soft, dry cloth to wipe down the enclosure. Do not use harsh chemicals or abrasive cleaners.
- **Connections:** Periodically check all wiring connections to ensure they remain secure and free from corrosion.
- **Fuse Replacement:** If the subwoofer stops working and the Protect LED is off, check the 20A fuse. If blown, replace it only with a fuse of the exact same rating (20A). Using a higher-rated fuse can cause serious damage.

8. TROUBLESHOOTING

If you experience issues with your subwoofer, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
No Power (Power LED off)	Blown fuse; Loose power/ground/remote wire; No power from battery/remote source.	Check and replace fuse; Verify all power, ground, and remote connections; Test battery voltage and remote output.
Subwoofer in Protection Mode (Protect LED red)	Overheating; Short circuit in speaker wiring; Low voltage.	Ensure adequate ventilation; Check speaker wires for shorts; Verify stable 12V power supply. Allow unit to cool.
No Sound Output	No audio signal; Input level too low; RCA cables disconnected/damaged.	Verify head unit output; Increase Input Level; Check RCA cable connections and integrity.

Problem	Possible Cause	Solution
Distorted Sound	Input level too high; Bass Freq set incorrectly; Poor ground connection.	Reduce Input Level; Adjust Bass Freq for better blend; Verify secure ground connection.
Weak Bass	Incorrect phase setting; Input level too low; Subwoofer placement.	Toggle Speaker Phase (Norm/180°); Increase Input Level; Experiment with subwoofer placement.

9. SPECIFICATIONS

Technical specifications for the Magnadyne LS-SUB-200 Powered Subwoofer:

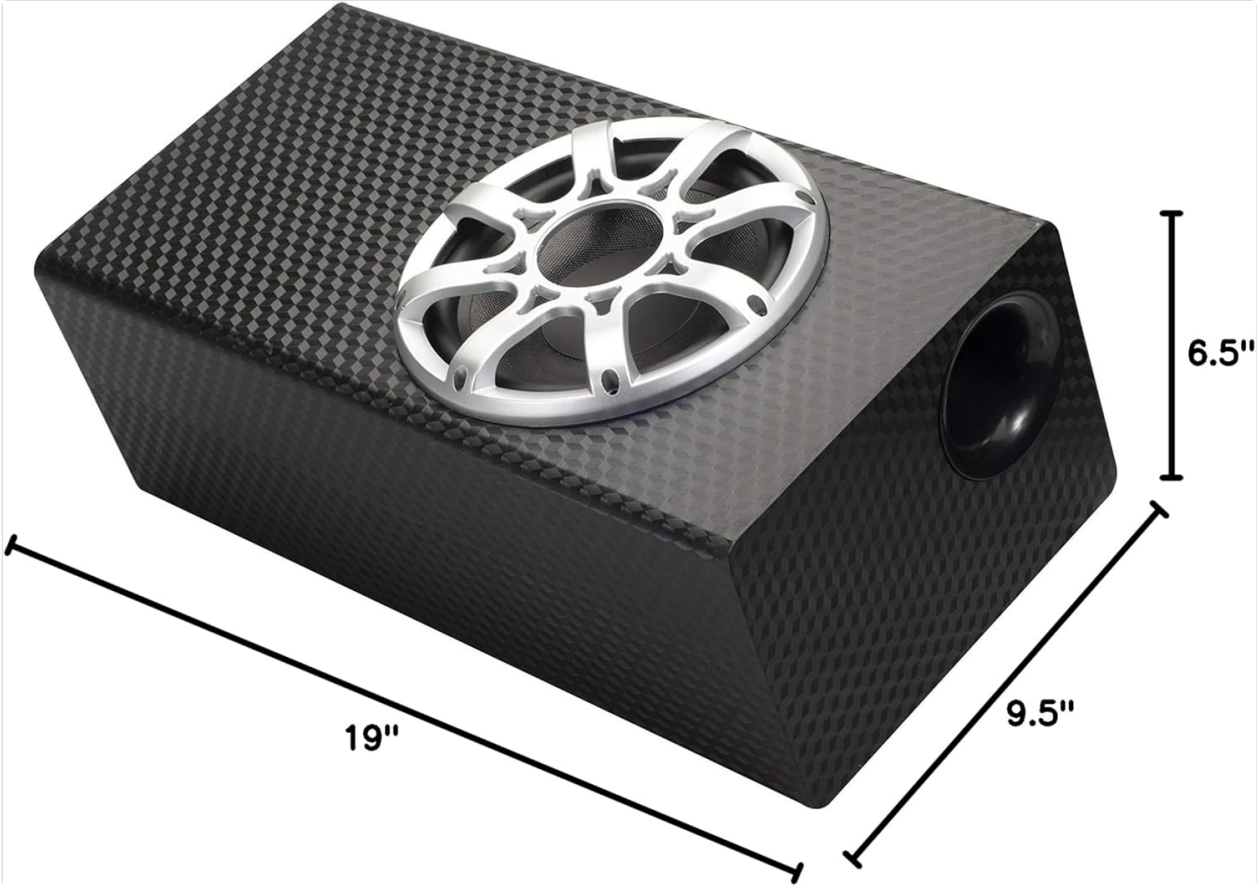


Image 9.1: Diagram illustrating the dimensions of the Magnadyne LS-SUB-200 powered subwoofer (19" L x 6.5" W x 9.5" H).


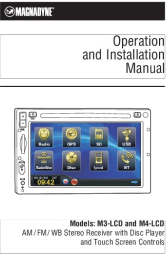



Feature	Specification
Model Name	LS-SUB-200
Speaker Type	Subwoofer
Subwoofer Diameter	8 Inches (210 mm)
Maximum Output Power	320 Watts
RMS Power	80 Watts @ 4 ohms (14.4VDC)

Feature	Specification
Frequency Response	10Hz-120Hz
Low Pass Frequency	50Hz-120Hz
Sensitivity	86dB 1W @ 1 Meter
Signal-to-Noise Ratio (S/N)	95dBA 1W @ 1 Meter
Amplifier Class	AB
Fuse Rating	20A
Power Source	Corded Electric (12V DC)
Connectivity Technology	RCA (Wired)
Product Dimensions (L x W x H)	19" x 6.5" x 9.5"
Item Weight	12.92 pounds (5.87 Kilograms)
UPC	783855994020

10. WARRANTY AND SUPPORT

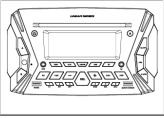
Magnadyne products are designed for reliability and performance. This product is covered by a limited warranty. For specific warranty terms and conditions, please refer to the warranty card included with your purchase or visit the official Magnadyne website.

For technical support or service inquiries, please contact Magnadyne customer service through their official channels. Keep your purchase receipt as proof of purchase for warranty claims.

 <p>M9 10.2" BLUETOOTH MULTI-MEDIA RECEIVER</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>Operation and Installation Manual</p> <p>Models: M3-LCD and M4-LCD AM/FM/WB Stereo Receiver with Disc Player and Touch Screen Controls</p>	<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>RV2458 Router Quickstart Guide</p> <p>The Router Setup Assistant and the app</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>M10 DVD AREA MULTIMEDIA INTERNET RECEIVER WITH 10.2" TOUCH SCREEN, BLUETOOTH, AND SIRIUSXM</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>
 <p>SPEAKER INSTALLATION LS2CMW-BLK, LS2CMW-TN</p> <p>CUT OUT THIS AREA</p>	<p>Magnadyne LS2CMW Series Speaker Installation Guide and Cutout Template</p> <p>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.</p>

LINEAR SERIES

Operation / Installation Manual



RV6100
Wall Mount Rugged Style AM/FM/
Bluetooth/DVD Multimedia Receiver

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[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.