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Cerwin Vega Mobile CV CVM2

Cerwin-Vega CVM2 Bass Maximizer Processor User Manual

Model: CVM2

Introduction

The Cerwin-Vega CVM2 Bass Maximizer Processor is designed to enhance the low-frequency output of your car audio system. This unit connects to any amplifier dedicated to powering a subwoofer, providing advanced control over bass frequency range and intensity. It includes a wired dash remote for convenient adjustments.

This manual provides detailed instructions for the installation, operation, and maintenance of your CVM2 Bass Maximizer Processor. Please read this manual thoroughly before installation and use to ensure proper function and to prevent damage.

Safety Information

Always observe the following safety precautions when installing and operating the CVM2 Bass Maximizer Processor:

- Ensure the vehicle's battery is disconnected before beginning any installation work to prevent electrical shorts.
- Connect the unit only to a 12V DC negative ground electrical system.
- Use appropriate gauge wiring for power and ground connections to prevent overheating and potential fire hazards.
- Mount the unit securely in a location that does not obstruct vehicle operation or safety devices.
- Avoid installing the unit in areas exposed to excessive heat, moisture, or direct sunlight.
- Do not disassemble or modify the unit. Refer all servicing to qualified personnel.
- Prolonged exposure to high volume levels can cause hearing damage. Adjust audio levels responsibly.

Package Contents

Verify that all items are present in the package:

- Cerwin-Vega CVM2 Bass Maximizer Processor Unit
- Wired Dash Remote Control
- Remote Control Cable
- Mounting Hardware (screws, brackets)
- User Manual (this document)

Product Overview

The CVM2 Bass Maximizer Processor features several controls and connections for optimal bass enhancement.



Figure 1: Front view of the CVM2 Bass Maximizer Processor with its wired remote control and cable.

Main Unit Controls and Connections:

- **Master Volume:** Adjusts the overall output level of the bass processor.
- **Wide Control:** Adjusts the width of the bass processing, affecting how broad the bass enhancement is.
- **Sweep Control:** Adjusts the center frequency of the bass processing, allowing you to target specific bass frequencies.
- **Balanced Input (L/R):** RCA inputs for connecting the audio signal from your head unit or source.
- **Output (L/R):** RCA outputs for connecting to your subwoofer amplifier.
- **Dash Remote Port:** RJ11 port for connecting the wired dash remote.
- **Fuse:** Integrated fuse for circuit protection.
- **Power Connections (12V, REM, GND):** Terminals for power, remote turn-on, and ground connections.



Figure 2: Rear view of the CVM2 unit, highlighting the balanced input, output, dash remote port, fuse, and power terminals.

Wired Dash Remote Control:

- **Bass Level:** Allows for real-time adjustment of the bass output from the driver's seat.
- **PFM Subsonic Filter:** Adjusts the subsonic filter frequency to protect your subwoofer from damaging ultra-low frequencies.



Figure 3: Close-up view of the wired dash remote control, showing the Bass Level and PFM Subsonic Filter knobs.

Setup and Installation

Proper installation is crucial for optimal performance and safety. If you are unsure about any steps, consult a professional car audio installer.

1. Mounting the Unit:

1. Choose a dry, well-ventilated location away from direct heat sources and moisture. Common locations include under a seat, in the trunk, or behind the dashboard.
2. Ensure the mounting surface is flat and secure.
3. Use the provided mounting hardware to secure the CVM2 unit. Mark the mounting holes, drill pilot holes if necessary, and fasten the unit firmly.

2. Wiring Connections:

Before making any connections, disconnect the vehicle's negative battery terminal.

1. **Ground (GND):** Connect the GND terminal to a clean, unpainted metal surface of the vehicle chassis. Ensure a solid electrical connection.
2. **Remote (REM):** Connect the REM terminal to the remote turn-on output of your head unit or amplifier. This will turn the CVM2 on and off with your audio system.
3. **12V Power:** Connect the 12V terminal directly to the positive terminal of the vehicle's battery. Install an in-line fuse (not supplied, typically 1A-5A) within 18 inches of the battery for protection.
4. **Audio Input:** Connect the RCA outputs from your head unit or signal processor to the "Balanced Input" RCA jacks on the CVM2.
5. **Audio Output:** Connect the "Output" RCA jacks on the CVM2 to the RCA inputs of your subwoofer amplifier.
6. **Dash Remote:** Connect the wired dash remote to the "Dash Remote" port on the CVM2 using the provided cable. Route the cable to a convenient location for the driver.

After all connections are made, reconnect the vehicle's negative battery terminal.

Operating Instructions

Once installed, the CVM2 Bass Maximizer Processor can be adjusted to optimize your bass response.

Initial Setup and Adjustment:

1. **Power On:** Turn on your car audio system. The CVM2 should power on automatically via the remote turn-on wire.
2. **Set Master Volume:** Start with the "Master Volume" knob on the CVM2 set to its minimum position.
3. **Set Dash Remote Controls:** Set the "Bass Level" knob on the dash remote to its center position (12 o'clock). Set the "PFM Subsonic Filter" knob to its minimum (30Hz) position initially.
4. **Play Music:** Play a piece of music with a good bass presence.
5. **Adjust Master Volume:** Slowly increase the "Master Volume" knob on the CVM2 until you hear the desired bass enhancement without distortion.
6. **Adjust Wide Control:** Experiment with the "Wide" control to broaden or narrow the bass effect. A wider setting will make the bass feel more expansive, while a narrower setting will focus it more.
7. **Adjust Sweep Control:** Use the "Sweep" control to select the specific frequency range where the bass enhancement is most effective for your music and subwoofer.
8. **Adjust PFM Subsonic Filter:** Gradually increase the "PFM Subsonic Filter" on the dash remote until unwanted ultra-low frequencies are attenuated, protecting your subwoofer. This setting should be above the lowest frequency your subwoofer can safely reproduce.
9. **Fine-tune Bass Level:** Use the "Bass Level" knob on the dash remote for convenient on-the-fly adjustments to the bass intensity.

The goal is to achieve a balanced and enhanced bass response that complements your overall audio system without overpowering other frequencies or causing distortion.

Maintenance

The Cerwin-Vega CVM2 Bass Maximizer Processor requires minimal maintenance to ensure long-term performance.

- **Cleaning:** Periodically wipe the unit with a soft, dry cloth to remove dust and debris. Do not use harsh chemicals, solvents, or abrasive cleaners.
- **Connections:** Occasionally check all wiring connections to ensure they are secure and free from corrosion. Loose connections can lead to poor performance or damage.
- **Fuse Replacement:** If the unit does not power on, check the fuse. If blown, replace it with a fuse of the exact same type and rating (e.g., 1A AGC fuse). Using an incorrect fuse can damage the unit or cause a fire.

Troubleshooting

If you experience issues with your CVM2 Bass Maximizer Processor, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No Power / Unit Not Turning On	Blown fuse; Loose power/ground/remote wire; No remote signal from head unit.	Check and replace fuse; Verify all power, ground, and remote connections are secure; Ensure head unit is providing a remote turn-on signal.
No Bass Enhancement	Input/output RCA cables loose or incorrect; Master Volume too low; Wide/Sweep controls set incorrectly.	Check all RCA connections; Increase Master Volume; Adjust Wide and Sweep controls to desired settings.
Distorted Bass	Master Volume set too high; Input signal too strong; Subwoofer amplifier gain too high.	Reduce Master Volume; Check input signal level from head unit; Adjust gain on subwoofer amplifier.
Unit Gets Hot	Poor ventilation; Overload.	Ensure adequate airflow around the unit; Check for proper impedance matching with amplifier; Reduce volume if consistently overheating.
Dash Remote Not Working	Remote cable loose or damaged.	Check connection of remote cable at both ends; Inspect cable for damage.

If the problem persists after attempting these solutions, contact Cerwin-Vega Mobile customer support.

Specifications

Model	CVM2
Brand	Cerwin Vega Mobile CV
Voltage	13.2 Volts
Number of Channels	2
Dimensions (L x W x H)	10.7 x 9.3 x 2.7 inches
Item Weight	3.2 pounds
Material	Plastic or Metal

Mounting Type	Surface Mount
Subsonic Filter	Adjustable: 30Hz-120Hz, 12dB per octave
Para-bass Controls	Adjust center frequency & width of bass processing
Inputs/Outputs	2-channel Preamp Inputs & Outputs (RCA)

Warranty Information

The Cerwin-Vega CVM2 Bass Maximizer Processor comes with a**1-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

This warranty does not cover damage resulting from improper installation, accident, misuse, abuse, neglect, unauthorized modification, or normal wear and tear. Proof of purchase is required for all warranty claims. Please retain your original sales receipt.

Customer Support

For technical assistance, warranty claims, or general inquiries regarding your Cerwin-Vega CVM2 Bass Maximizer Processor, please contact Cerwin-Vega Mobile customer support.

Please visit the official Cerwin-Vega Mobile website for the most current support contact information, FAQs, and additional resources:

www.cerwinvegamobile.com

When contacting support, please have your product model number (CVM2) and proof of purchase readily available.

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