



Vega ***series***



CUMI
DIGITAL BASS ENHANCER

USER MANUAL

Introduction

Congratulations for purchasing the Cerwin-Vega Mobile CVM1 for your car audio system. you have chosen the Cerwin Vega Mobile because you deserve the best!

The Cerwin Vega Mobile CVM1 Digital Bass Processor is designed and engineered to reproduce extreme bass in your vehicle! Our authorized Cerwin Vega Mobile dealers can help guide you with various installation applications and technical information in order to customize your sound your sound system according to your own listening preference. It is highly recommended that you have your new CVM1 installed by an authorized Cerwin Vega Mobile dealer to ensure that you receive the ultimate listening experience!

If you decide to install the amplifier by yourself, please thoroughly read this manual before getting started. This manual will help familiarize yourself with this product and guide you through the installation process and procedures for this particular product.

Please contact your local authorized Cerwin Vega Mobile dealer if you have any questions regarding the instructions in this manual or the CVM1 processor's application capabilities. If you require the additional assistance, please contact the Cerwin Vega Mobile Technical Support Department during buseiness hours at 213-261-4161

BASS DRIVER:

The CVM1 contains a Bass Driver circuit that accurately recreates and injects Low frequency information back into the signal path. What that means in everyday terms is that the BASS BOOSTER will give more bass impact to your best compact discs or even your old tapes.

BASS Equalization Circuit:

The CVM1 has a unique equalization circuit that contours the restored bass to your speaker systems.

DASH MOUNT REMOTE CONTROL:

The CVM1 comes with a Dash Mountable Remote control that allows you to enjoy the effects of the CVM1 without having to leave the driver seat. The Dash Mount Control has a LED indicator; this LED will grow brighter as you add more bass or dimmer when you decrease it.

BASS MAXIMIZER INDICATOR:

Not only does the CVM1 provide great music to your ears, it also provides visual enjoyment as well. On the chassis of the CVM1 there is one LED under the logo "Artconnection" that indicates the system is on.

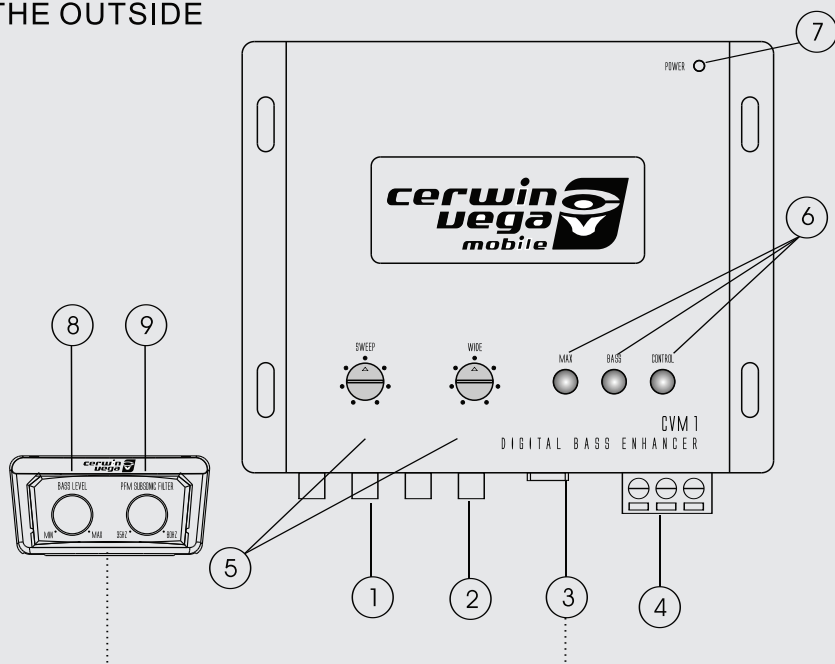
PFM SUBSONIC FILTER SWITCH:

This unique feature is legendary in its ability to fine tune the bass response of any system, why waste power on nasty subsonic information when PFM Subsonic Filter Switch can help you to clean things up?

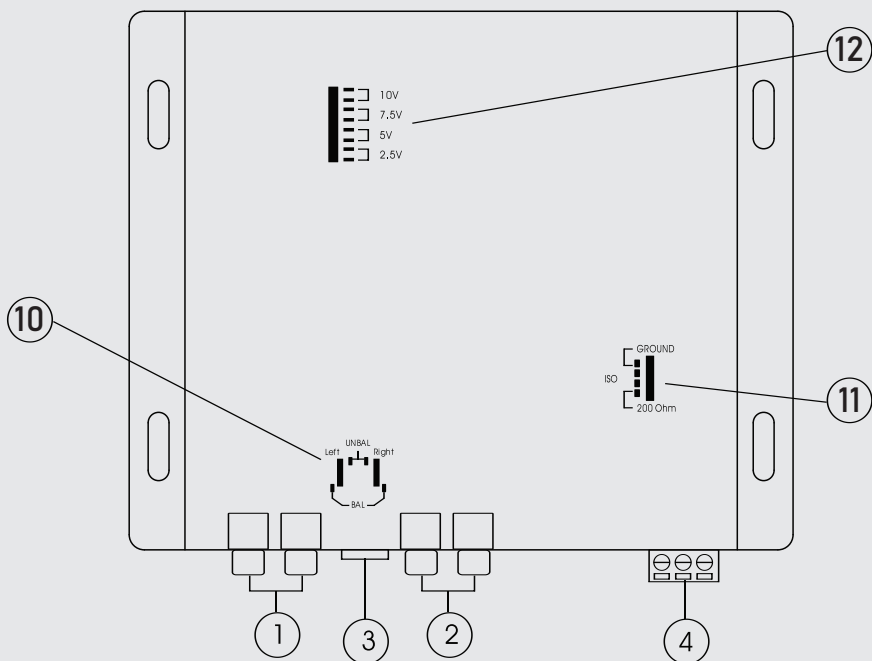
BASS OUTPUT CONTROL:

The CVM1 has the ability to produce large amounts of deep, mind shattering bass without damaging your speakers. The Bass Output Control circuit allows the CVM1 to maximize the bass output of any auto audio system while restraining destructive bursts.

THE OUTSIDE



- 1. INPUTS:** The inputs of the CVM1 use a balanced input circuit to help minimize induced noise. These are designed to handle very high signal voltages of up to 15volts.
- 2. OUTPUTS:** RCA connectors should be connected to the next component AFTER the CVM1 before a crossover.
- 3. DASH REMOTE CONTROL**
- 4. POWER CONNECTOR**
- 5. BASS CONTROLS:** These two knobs control the Bass functions of the CVM1 SWEEP knob allows you to choose the center frequency desired. The WIDE knob adjusts how wide of a frequency range the CVM1 will affect.
- 6. BASS MAXIMIZE INDICATOR:** Three LED indicators flash when the bass maximization circuit is activated.
- 7. POWER ON LED**
- 8. SUB VOLUME CONTROL**
- 9. DASH SUBSONIC CONTROL:** This knob control the subsonic frequency from 35Hz to 80Hz.



10. INPUT GROUNDING:

In most systems, the source unit may leave this jumper set in the BALANCED position. In some systems, the source unit may look for a ground through the RCA connectors. In this event, you should go ahead and change the jumpers to the UNBALANCED position.

11. GROUND ISOLATION JUMPERS:

Occasionally alternator whine may appear in a system because the source unit and amplifier may use different grounding. To help this situation, we have provided alternative grounding connections. Make sure your system is turned OFF before you move these jumpers.

12. BASS OUTPUT CONTROL JUMPERS:

Not all systems are designed the same, more systems are designed strictly for SPL (sound pressure level) while others are a little more same. The Bass Maximizer circuit can either increase or decrease the signal voltage of the Bass Restoration Circuit. Depending upon your system, you may opt to change these jumpers to a higher or a lower setting to maximize your bass output and protect your speakers. In most systems, the factory setting will suit you fine. We recommend you try the factory setting first.

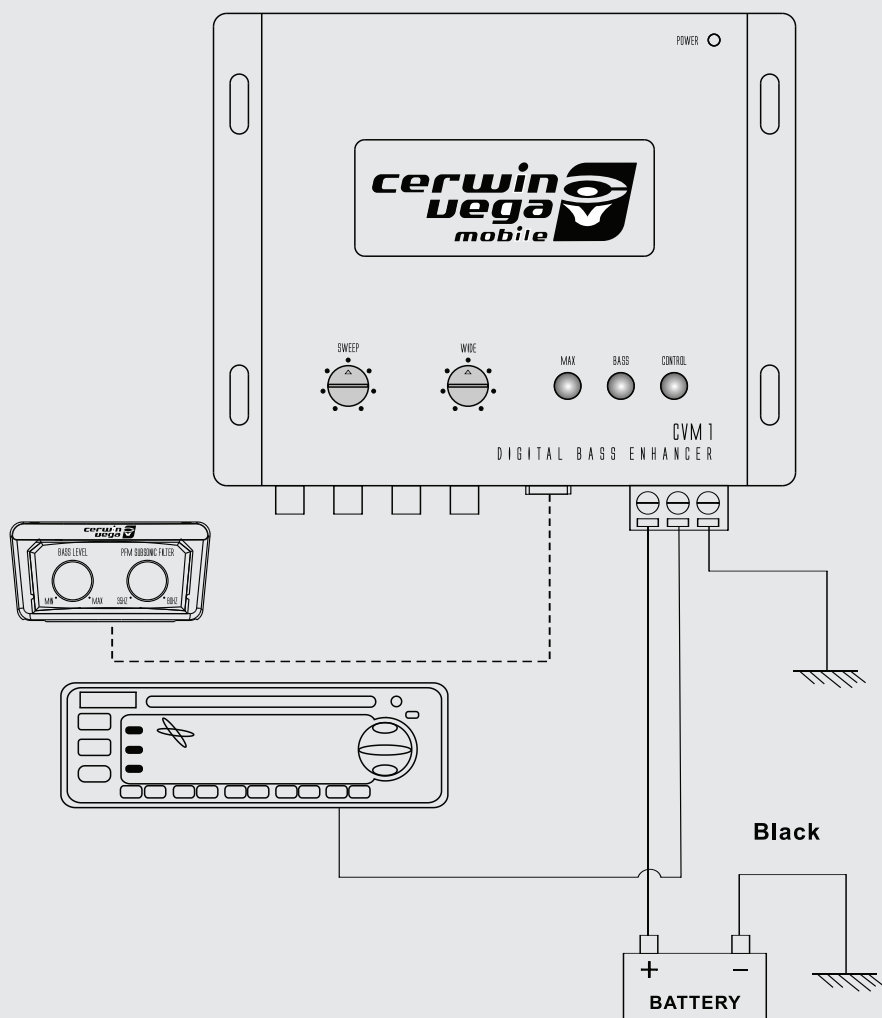
Electronic Connections & Wiring

POWER CONNECTION

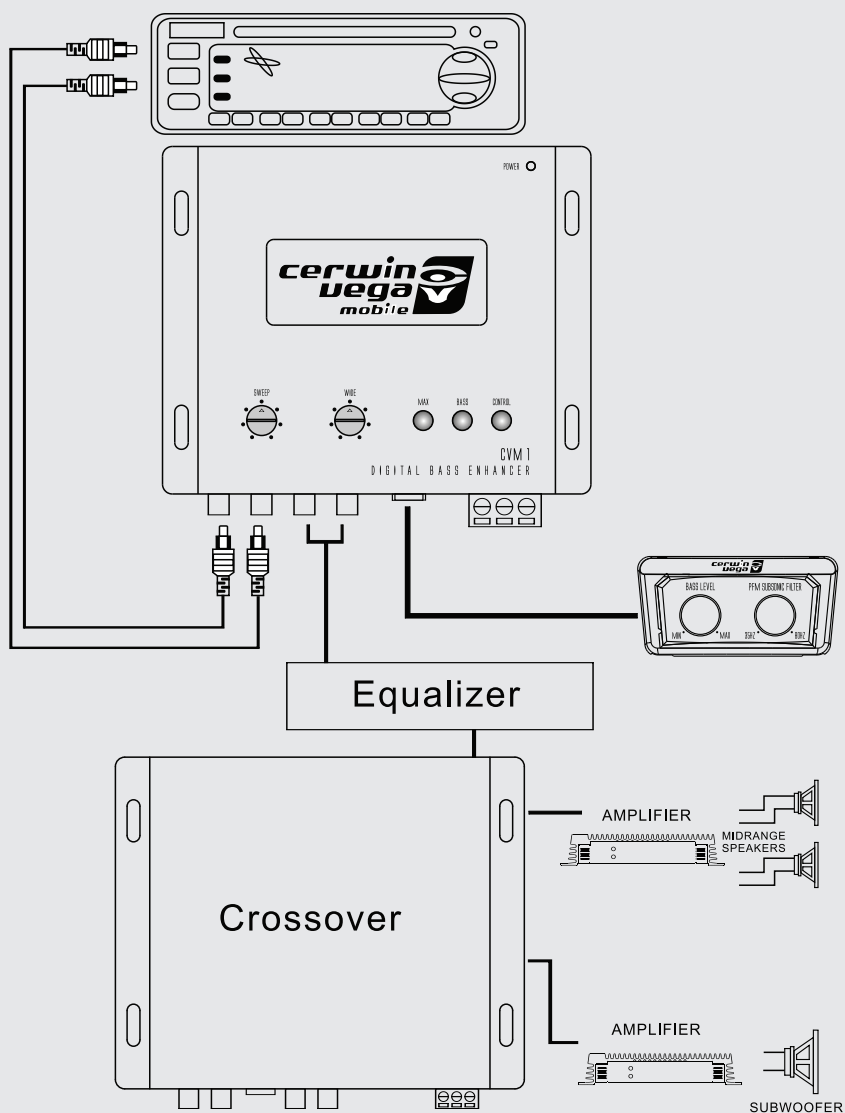
B+12V(: Connect a red wire to the battery or other power source.

REMOTE: Connect an orange wire to remote activating (12V DC) wire of car stereo or equalizer.

GND: Connect a Black wire to the car chassis for ground connection.



Signal Connection



NOTE:

For signal connection, the output RCA connectors should be connected to the next component after the CVM1; such as, a crossover, equalizer or amplifier. Remember, the CVM1 should go inline BEFORE a crossover.

ADJUSTING THE BASS CONTROL

THE BASS RESPONSE IN A SYSTEM IS AFFECTED BY FOUR FACTORS:

- (1) The acoustics of the vehicle
- (2) The locations of the speakers
- (3) The music source (CD, Tape, etc.)
- (4) Speakers and speaker enclosures.

Because of the variations in the recording process, we developed CVM1 to help restore any low frequencies lost during the recording lost during the recording process; however, the acoustics of various environments are different. The **Sweep** control allows you to select a center frequency (the frequency most affected) between 27 and 63Hz. The **Width** control then allows you to control the range of the filter centered on the **Sweep** frequency.

SETTING THE BASS OUTPUT CONTROL

The CVM1 is the most powerful bass component. This device is equipped with several different Bass Outputput selections. If you need change the settings, please use the chart below to determine the new setting. It recommended that you listen to the factory setting first before changing the Bass Output setting.

Recommended Setting	Amplifier Voltage	Minimum Speaker Size
2.5 Volts	3.0 Volts or less	8"
5.0 Volts	5.0 Volts or less	10"
7.5 Volts	7.5 Volts or less	12"
10.0 Volts	10.0 Volts	15"

SPECIFICATIONS

Maximum Input Level	15V rms
Maximum Output Level	13.5V peak
Frequency Response	10Hz-35KHz; +/-1dB
Total Harmonic Distortion	0.0025%
Signal to Noise Ratio	133dB
Balanced Input Noise Rejection	>62dB
Input Impedance	10K ohm
Output Impedance	150 ohm
Power Supply	High Headroom PWM
Power Draw	150mA

TROUBLE SHOOTING GUIDE

If the Unit does not turn-on, and/or the power indicator LED is NOT illuminated, do this:

- 1) Check and make sure that B+ and GND are not reversed.
- 2) Check that all power wires are properly connected and have the appropriate potential (11-16 volts)
- 3) Check that the fuse is intact and functioning.

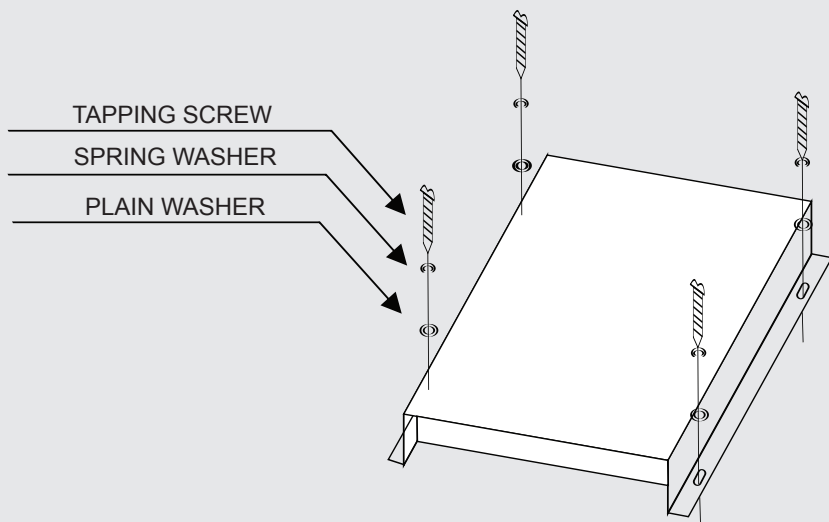
If you experience high audible distortion or low output volume:

- 4) Check that the input and output levels are set correctly. Input should match the source and output should match the sensitivity of the host.
- 5) Check the crossover settings; make sure they are correct; for a high "Q" systems, set it 1 octave or more above.

If you experience high audible distortion or low output volume:

- 6) Verify that the GND connection is secure, the conductor (wire) is not too thin and unnecessarily long.
- 7) Check that the B+ wire is not too thin and unnecessarily long.
- 8) Change the power source; try taking power from a different point.

INSTALLATION



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Warranty

Thank you for purchasing a Cerwin Vega Mobile product and we hope to provide you with countless hours of listening enjoyment.

Cerwin Vega Mobile warrants all of our amplifiers and speakers to be free of defects in materials and workmanship for a period of one (1) year.

This warranty is non-transferable and applies only to the original purchaser from an authorized Cerwin Vega Mobile dealer. If service is required and necessary under this warranty due to manufacturing defect or malfunction, then Cerwin Vega Mobile will repair and/or replace defective product with either new or remanufactured like product at no charge at our discretion.

Damage to product caused by the following will not be covered under this warranty: abuse, accident, misuse, neglect, modifications, repairing attempts, seller/installer misrepresentation.

This warranty does not cover any incidental, consequential, or cosmetic damage due to accidents or normal wear and tear, nor does it cover the cost of removing or reinstallation of the product.

Warranty is void if the products serial number has been removed, defaced, and/or tampered with.

Warranty Procedure:

We recommend that you contact your Cerwin Vega Mobile authorized dealer where your original purchase was made to initiate all warranty claims. Our authorized dealers can guide you through the warranty procedure to ensure that your claim will be processed in a timely manner. All warranty returns must be accompanied with a proof of purchase (a copy of the original sales receipt) and be shipped freight prepaid to our facility with an RA (Return Authorization) number clearly marked on the outside of the package. Direct returns from consumers or non-authorized dealers will be refused if shipped without a valid RA number authorized by Cerwin Vega Mobile beforehand.

INTERNATIONAL

Products purchased outside of the U.S.A. are covered only by that country's distributor and not by Cerwin Vega Mobile U.S.A.

Please Ship All Warranty Claims With Pre-Authorized RA Number

To:

CV&DA Holdings, Inc.

ATTN: Customer Service Department

3761 S. Hill St.

Los Angeles, CA 90007 USA

Please Contact Customer Service for Further Warranty Information: U.S.A.

Tel: 213-261-4161 / Fax: 213-246-2423 / Tech Support 213-212-3187



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