

HRPM SERIES

DIGITAL AMPLIFIERS



HRPM300.2D

HRPM350.1D

HRPM360.4D

MANUAL

Introduction

Cerwin Vega Mobile Amplifiers

Thank you for purchasing a Cerwin Vega Mobile amplifier for your Car Audio System. You have chosen Cerwin Vega Mobile because you deserve the best!

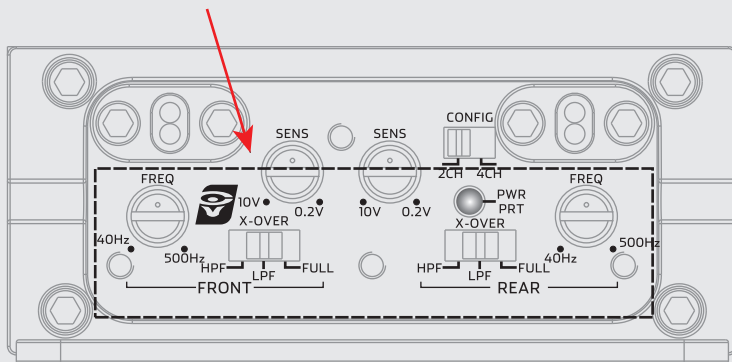
Cerwin Vega Mobile amplifiers are designed and engineered to the highest quality standards in the industry to create the ultimate listening experience in your vehicle. For optimal performance of this product, it is highly recommended that you have your new amplifier installed by an authorized Cerwin Vega Mobile dealer. Our authorized dealers have the necessary experience and installation equipment to ensure that your amplifier will deliver maximum performance and explain all the details pertaining to our warranty coverage as well.

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

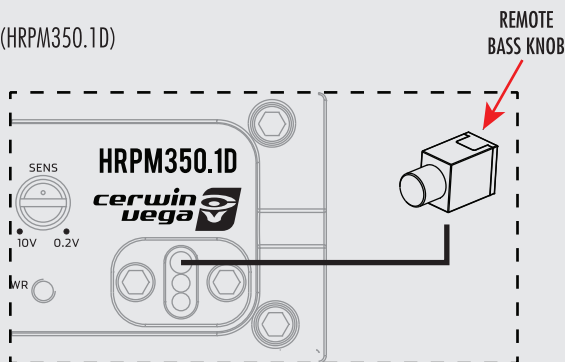
Please contact your local authorized Cerwin Vega Mobile dealer if you have any questions regarding the instructions in this manual or the amplifier's operation capabilities. If you require additional assistance, please contact the Cerwin Vega Mobile Technical Support Department during business hours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

Features

- IRS (International Rectifier) Full Range Capable Class-D Topology
- Balanced Differential Inputs For Noise-Free Operation Regardless Of the Source
- Variable Full Crossover Filter: LPF/FULL/HPF (HRPM360.4D/HRPM300.2D)



- Surface Mount Component Technology
- Audio Precision Quality Control Verification
- Stable & Reliable Four Layers PCB Trace Layout
- IPX67 Rated Waterproof Design For Powersports & Marine Applications
- Power & Protection Led Light Status Indicator
- Short circuit, thermal and voltage protection
- Remote Bass Knob (HRPM350.1D)



Pre-Install Precautions

WARNING: Prolonged exposure to sound pressure levels in excess of 100dB can cause permanent hearing loss. Cerwin Vega Mobile amplifiers can exceed that level so please exercise restraint when listening and enjoying your new amplifier.

GENERAL PRECAUTIONS

- This unit is designed for negative ground 12V DC operation only.
- Total system impedance must not be less than 2ohms, in a bridged OR stereo configuration
- Although the H RPM series amplifiers are built for ALL WEATHER conditions, avoid installing the unit where:
 - It would be subject to high temperatures, such as from direct sunlight or hot air from the heater.
 - It would be subject to rain or moisture.
 - It would be subject to dust or dirt.
- Do not cover the unit with carpet or wires.
- Do not use the unit with a weak auto battery. Optimum performance depends on a normal battery supply voltage.
- For safety reasons, keep the volume of your MARINE or POWERSPORTS vehicle audio system moderate while driving.
- There is NO speaker level input connector, you can cut RCA's and solder the wires and connect directly thru low level input(RCA)

MOUNTING PRECAUTIONS

Although Cerwin Vega Mobile amplifiers incorporate heat sinks and protection circuits, mounting the amplifier in a tight space without any air movement can still damage internal circuitry over time. Choose a location that provides adequate ventilation around the amplifier. For easy system set-up, mount the amplifier so the side panel controls will be accessible after installation. To increase thermal run times on low impedance loads, an additional fan is recommended, remember any moving air across the amplifier will reduce heat.

In addition, observe the following precautions:

1. Using a felt pen mark the mounting hole locations.
2. Mounting the amplifier on carpet will significantly reduce air flow, resulting in reduced thermal run times.
3. Mount the amplifier on a solid surface. Avoid mounting to sub woofer enclosures or areas prone to vibration. Do not install the amplifier on plastic or other combustible materials.
4. Prior to mounting the amplifier, make sure not to cut or drill into the fuel tank, fuel lines, brake lines (under chassis) or electrical wiring.

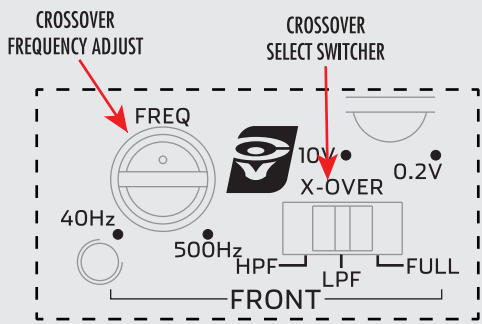
WIRING PRECAUTIONS

1. Before installation, make sure the source unit power switch is in the OFF position.
2. Disconnect the negative (-) lead of the battery before making any power connections.
3. When making connections, be sure that each one is clean and secure. Insulate all of your connections. Failure to do so may damage your equipment.
4. A secure clean ground connection is critical to the performance of your amplifier. Connect the ground directly to the MARINE or POWERSPORTS vehicle chassis to minimize resistance and avoid any noise problems.
5. Add an external fuse on the amplifier's positive (+) power lead and connect it as close as possible to the vehicle's (+) battery terminal. Use a rating that equals the total current consumption at full output of all amplifiers in the system. This external fuse will protect the vehicle from short circuits that can cause a fire.

System Overview

CROSSOVER CONTROLS

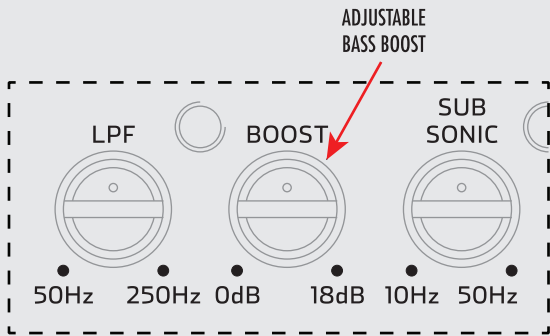
A crossover is a device that removes unwanted frequencies from a speaker or amplifier. A tweeter can easily be destroyed by bass notes if they are not filtered out. Likewise a subwoofer will not sound natural if it is playing midrange notes. A crossover remove these sounds from the speaker. As you might guess, careful adjustment in need to ensure that all the speakers are playing the right sounds and that you are left with no “holes” or low spots in the frequency response.



BASS BOOST

RPM HED amplifiers have an adjustable bass boost. Begin your adjustments at low volume. If you do not hear any improvement then woofer does not need any BASS BOOST.

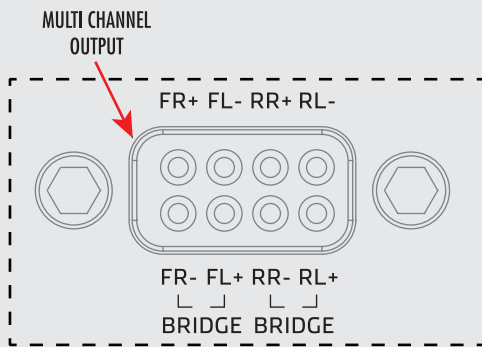
The Low Pass Filet (LPF) must be switched on for the bass boost to activate.



Use Bass Boost carefully. The demans on power output are tremendous. Try to minimize the use by changing woofer position or the enclosure size.

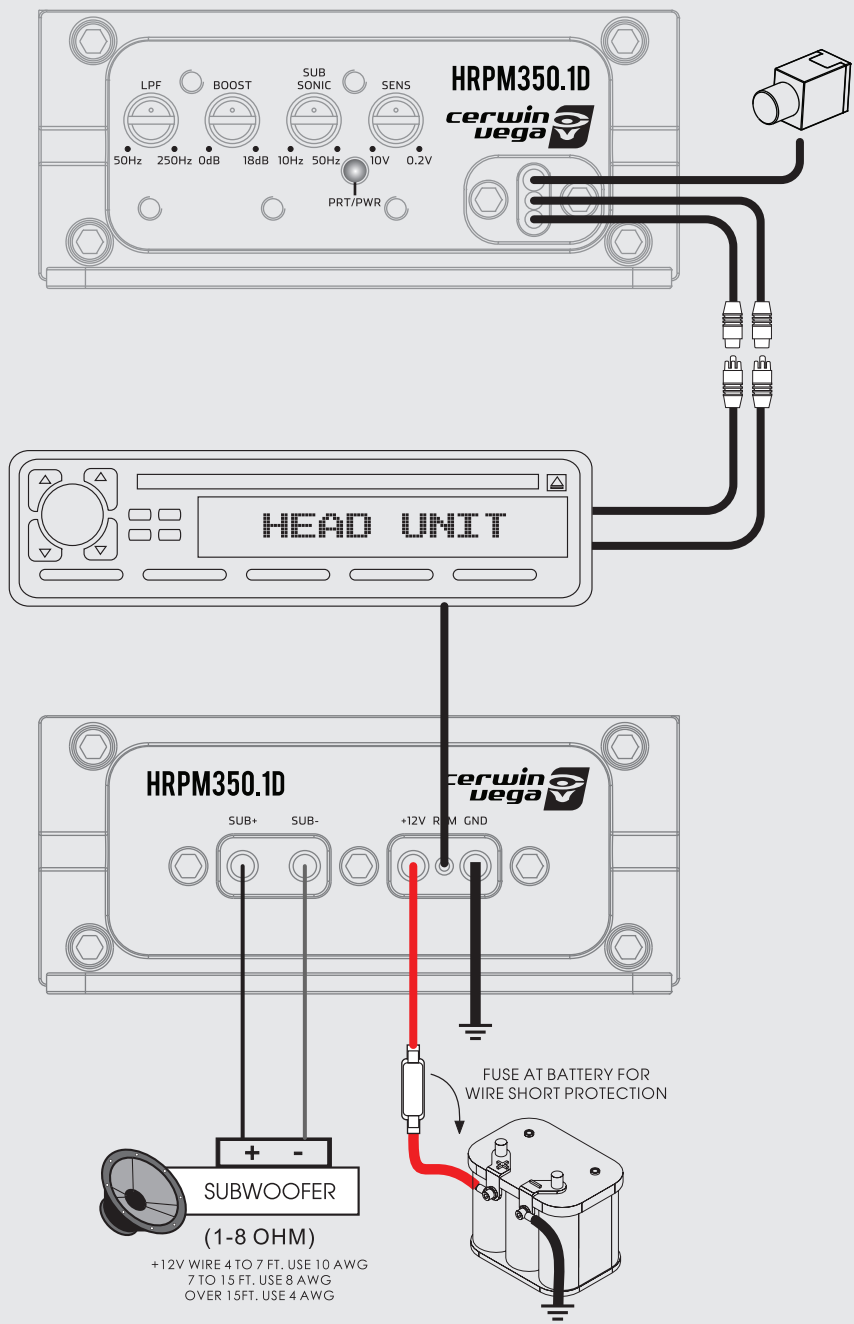
SPEAKER OUTPUTS

This amplifier is a multi channel amplifier design. Meaning it has more than one channel of speaker outputs. It is equipped with thick wire cable for speaker connection. Make this connection carefully and neatly strip the wire back and twist the exposed leads and solder them into the Amplifier’s wires while being careful that there is no loose or frayed strands of wire and put heat shrink tube to seal the connection points till the wire and put heat shrink tube to seal the connection points till the wire is tightly secured in place. If the wires ever come in contact with each othe, the amplifier will go into protection. **Know your total ohm load before you make any connection.**



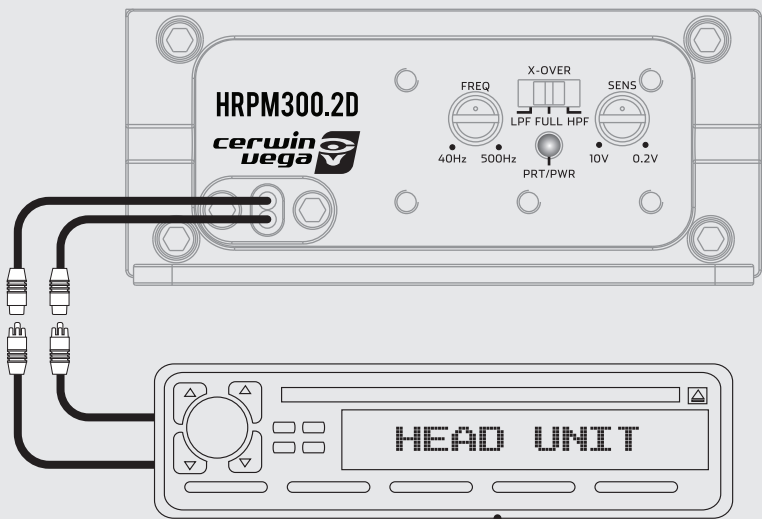
System Configuration

HRPM350.1D

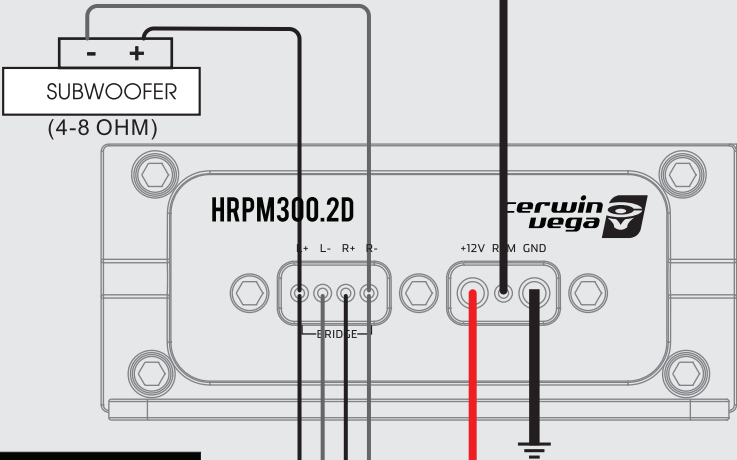


System Configuration

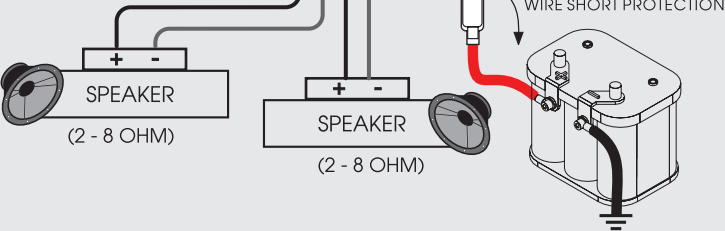
HRPM300.2D



BRIDGE MODE

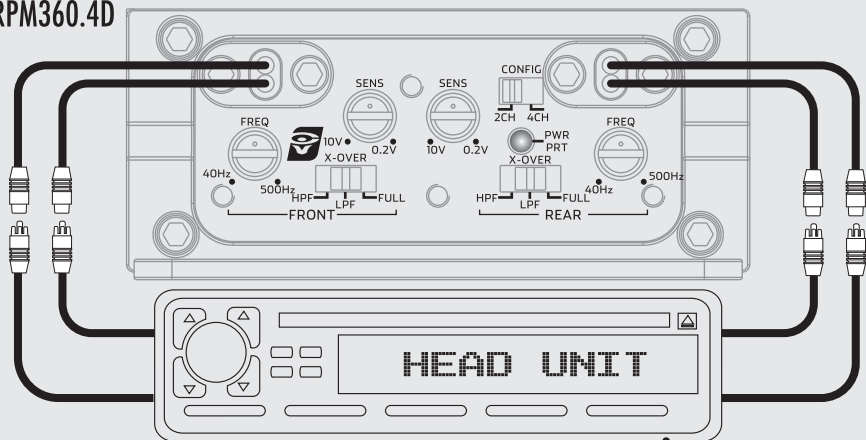


NORMAL MODE

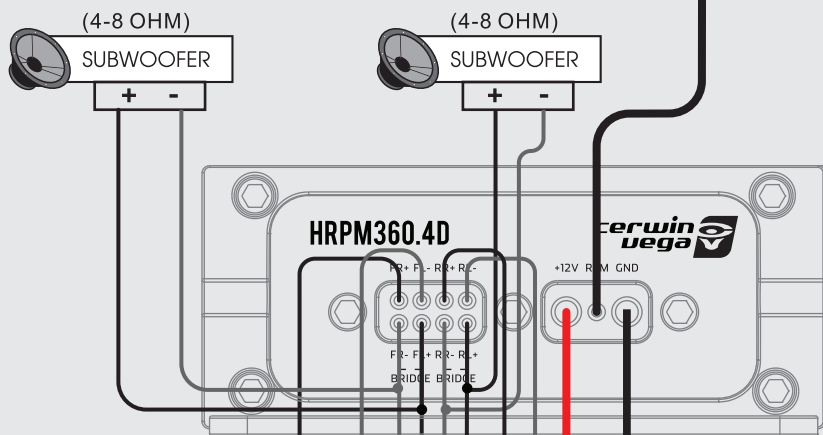


System Configuration

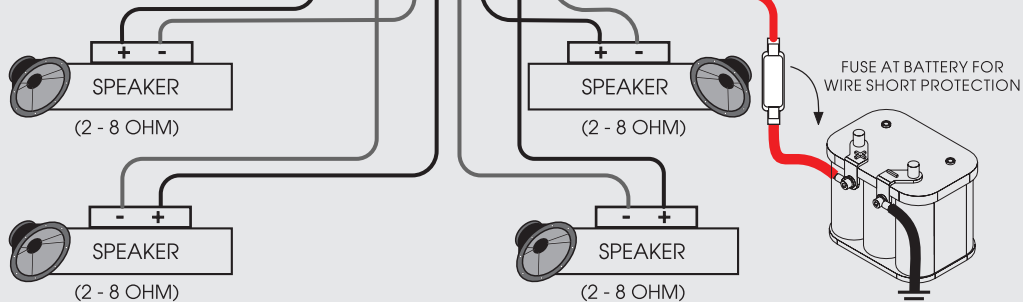
HRPM360.4D



BRIDGE MODE



NORMAL MODE



Installation

Professional installation by an authorized **CVM** amps dealer is highly recommended! Otherwise, the performance of your new gear may not be satisfactory. In the event that you decide to do your installation, please read and follow this manual very carefully. Failure to do so may compromise the integrity of this product, and possibly void the product warranty.

WARNING: Select a location that will provide adequate ventilation for the amplifier. Avoid mounting the amplifier with fins facing-down. The fins should be facing up, either vertically or horizontally. Secure the amplifier with the screws provided.

INSTALLATION INSTRUCTIONS

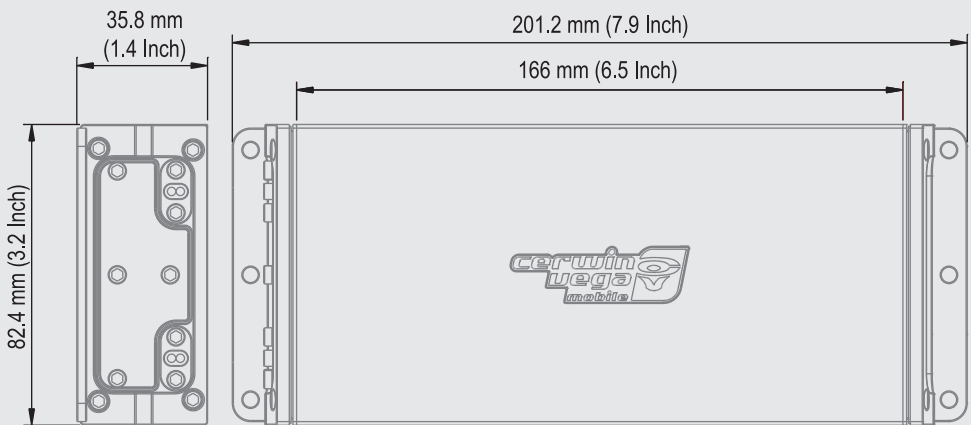
1. Before you start, disconnect the negative cable from the vehicle battery. Tape up the end so it is isolated from the battery.
2. Run an appropriate gauge wire from the battery to the amplifier. Plan this part of the installation carefully. This cable will carry a very high current. If it should short to the body and it is not properly fused, it could catch fire.
3. Connect the power wire to the battery using a fuse capable of the total current load of all amplifiers connected. **Don't install the fuse yet.** Wait until the end. Locate the fuse as close as possible to the battery. If the fuse is further than 18 inches (wire length) from the battery, you should re-evaluate the wire and fuse placement.
4. Find the closest clear metal area to the amp for a ground, sand, grind or scrape all paint and undercoating from the body and screw the ground securely in place. It is advisable to test the ground with an ohm meter between the ground cable and the negative battery cable to insure a good low resistance connection. Some alloys used in POWERSPORTS and MARINE vehicles do not offer the best ground. If you believe this is the case, consult with the vehicle manufacturer.
5. Run the speaker wire to the speakers. It is advised that you leave some extra wire at this point. You can "clean it up" later.
6. If you haven't already done so, mount the amp now.
7. Connect the power and ground to the amplifier.

Only after this step should you install the fuse at the battery.

8. Connect the remote wire from the head unit to the amplifier. Now is a good time to turn on the amp for the first time. Make sure it turns on properly and does not go into protection.
9. Connect the speaker wires to the amp and speakers (make sure the amp is off) and the polarity (+add-) is correct.
10. Connect RCA's to the amp.
11. Double check the amplifier controls at this time. Make sure everything is set correctly for your system.
12. Now, you're ready to play it. It is best to leave the gain all the way down at first. Start with the head unit volume low and work your way up.
13. Now you can tune the amp. Take your time and make only one adjustment at a time. It may take some time to get the system fully adjusted. During this time, the amp is drawing current from the battery. You should check the battery voltage from time to time and re-charge it if it gets low.

Specifications

MODEL NO.	HRPM350.1D	HRPM300.2D	HRPM360.4D
POWER OUTPUT AT 1 Ω	350W	-	-
POWER OUTPUT AT 2 Ω	220W	150Wx2	90Wx4
POWER OUTPUT AT 4 Ω	120W	100Wx2	60Wx4
POWER OUTPUT AT 4 Ω BRIDGED	-	300Wx1	180Wx2
TOTAL HARMONIC DISTORTION	<0.3%	<0.3%	<0.3%
S/N RATIO REF 1W AT 4 Ω	>85dB	>85dB	>85dB
GAIN RANGE	0.2-10V	0.2-10V	0.2-10V
CROSSOVER RANGE	50-250Hz	40-500Hz	40-500Hz
FREQUENCY RANGE	50-250Hz	20Hz-20KHz	20Hz-20KHz
SUBSONIC	10-50Hz	-	-
BASS BOOST	0-180	-	-
BASS REMOTE CONTROL	Yes	-	-
DIMENSIONS (LENGTHxWIDTHxHEIGHT)	201.2x82.4x35.8 mm (7.9x3.2x1.4 Inch)	201.2x82.4x35.8 mm (7.9x3.2x1.4 Inch)	201.2x82.4x35.8 mm (7.9x3.2x1.4 Inch)



Warranty

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

Please take a brief moment to register your new product. By registering your new product, you will receive benefits such as:

- Important product notifications that may pertain to your purchase.
- Confirmation and record of ownership in case of loss or theft.
- Knowledgeable customer service and technical assistance pertaining to your product.

Register your new product by completely filling out this Product and Warranty Registration card or register online at www.cerwinvegamobile.com.

Registration is voluntary and failure to register will not diminish your limited warranty rights.

Limited Warranty (U.S.A.)

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 product's 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 South Hill St.

Los Angeles, CA 90007 USA

Please Contact Customer Service for Further Warranty Information:

U.S.A.

Tel: 213-261-4161 / Fax: 213-947-4767



3761 South Hill Street
Los Angeles 90007, USA
P 213-261-4161 / F 213-947-4767

©2019 Cerwin Vega Mobile All rights reserved.
(a division of CV & DA Holdings, Inc.)

WWW.CERWINVEGAMOBILE.COM