cerwin vega mobile

stroker series AMPLIFIERS

S9500.2D / S9600.4D
S9750.1D / S91000.1D
S91500.1D / S91100.5D

Owners Manual

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.

WARNING: Prolonged exposure to sound pressure levels in excess of 100dB can cause permanent hearing loss. Diamond Audio 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
- 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 exposed 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 vehicle battery. Optimum performance depends on a normal battery supply voltage.
- For safety reasons, keep the volume of your vehicle audio system moderate while driving. This is so you can still hear normal traffic sounds outside your car.
- There is NO speaker level input connector, you can cut RCA's and solder the wires and connect directly thru the RCA input.

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.

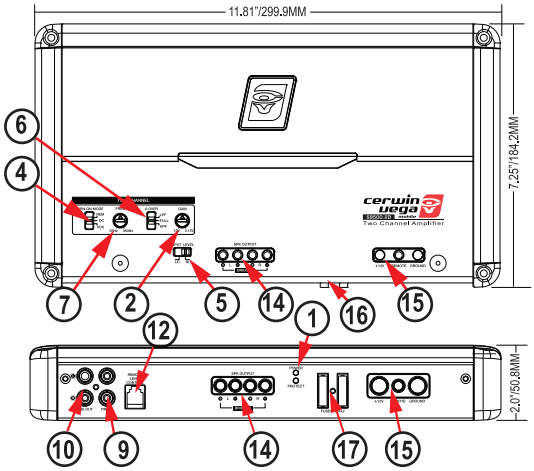
In addition, observe the following precautions:

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

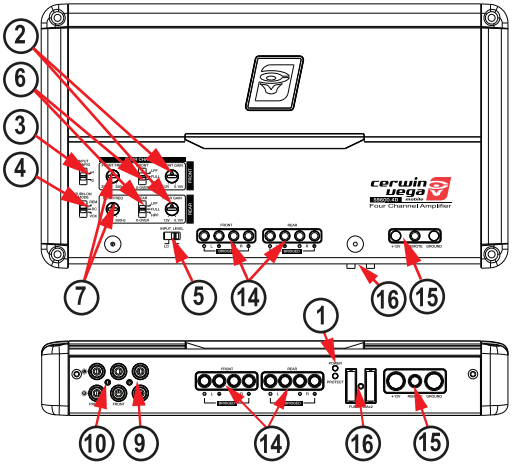
1. Before installation, make sure the source unit power switch is in the OFF position.
2. Disconnect the negative (-) lead of the battery before making any power connections.
3. When making connections, be sure that each one is clean and secure. Insulate all of your connections. Failure to do so may damage your equipment.
4. A secure clean ground connection is critical to the performance of your amplifier. Connect the ground directly to the car 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.

S9500.2D

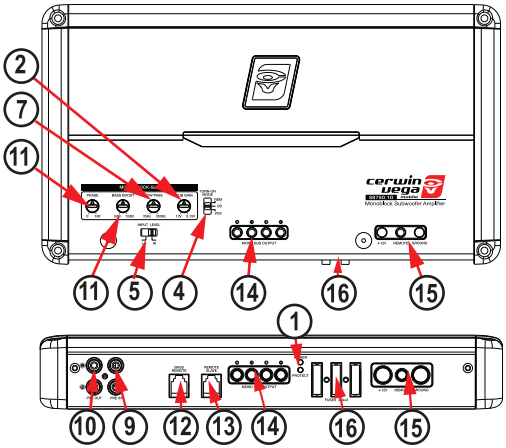


SPECIAL NOTE:
ALL AMPLIFERS
ON THIS PAGE
ARE THE SAME
DIMENSIONS

S9600.4D



S9750.1D



Functions

① **STATUS** - These lights indicate when the amplifier is powered up normally and when there is a protection fault. The Protect LED is illuminated when there is a problem with your amplifier. Please contact your authorize CVM dealer or call CVM's technical support.

② **GAIN** - This control matches the preamp stage of the Diamond Audio amplifier to your source unit. **This is NOT a volume control.** The range is between approx. 0.15mV to 12V. Use a speaker to RCA adapter (NOT an LOC!).

③ **INPUT CONFIG** - This switch parallels the input circuit if you are using a single stereo pair of outputs from your headunit or from an auxiliary device (like a Bluetooth receiver, etc). The 5 channel model (S91100.5D) is set up to accept 2/4/and 5 channels of input.

④ **TURN-ON MODE** - This switch allows you to configure the "Turn-On Mode" switch for desired turn-on trigger. There are 3 modes available: REM, DC and VOX. 1 - (REM) is the standard 12V trigger wire, 2 - (DC) or DC offset, when connected high level in, will sense differences in ground in your wiring through the speaker leads and turn on amplifier, 3 - VOX (signal sensing) which will sense any signal input into the amplifier RCA input - turning on the amplifier.

⑤ **INPUT LEVEL** - This switch allow you to select HI or LO depending on the signal used. HI is used when you use speaker level input. LO is when you use RCA input from an aftermarket headunit.

⑥ **XOVER** - This switch allows you to select the crossover function. HPF (High Pass Filter) LPF (Low Pass Filter) or FLAT(no filter), HPF is for filtering out bass for midrange/mid bass drivers. LPF is for filtering out high frequencies for subwoofers.

⑦ **FREQ** - Use this adjustment to select the crossover point LPF/FLAT/ or HPF. Remember that you must select the crossover function FIRST to get any adjustment. The range of adjustment is limited between 35-350Hz @12dB per octave .

⑧ **BASS BOOST** - This control adds 0 to +12dB of Bass boost at 45Hz. Be cautious when adding boost to subwoofer systems as they may not be able to handle the additional low frequency boost.

⑨ **RCA INPUT (PRE INPUT)** - The RCA jacks allow for a normal Left and Right channel signal input. Both HI (speaker level) or LO (RCA's). Simply connect to the source unit using RCA type audio cables (twisted pair is recommended), or use speaker to RCA adapters. Make sure to keep them away from power wiring wherever possible to reduce risk of noise.

⑩ **RCA OUTPUT (PRE OUTPUT)** - These RCA output jacks allow for Left and Right channel signal pass thru to a secondary amplifier. This is available on ALL S9 series amplifiers . It is NOT processed, and is full range/Unity Gain.

⑪ **PHASE**- This control gives the installer a unique feature that allows the variable adjusment of phase 0-180 degrees to compensate for subwoofer placement. Allowing the subwoofer to sound like it's placed in the front of the vehicle instead of the trunk.

⑫ **BASS REMOTE** - All S9 series amplifiers have this port for the remote level control (included). The control is intended to allow the user to control the level of gain up to the maximum adjustment level set on the amplifier for the subwoofer output. The control does not add additional boost, it only attenuates the setting that is fixed at the amplifier's control panel.

⑬ **BASS REMOTE "Slave"** - This OUTPUT allows you to control two (2) monoblock subwoofers amplifiers BASS BOOST - with ONE (1)remote level contrrol!

⑭ **SPEAKER OUTPUT** - Connect your speakers to these terminals. Stereo connections are connected as labeled. Bridged connections use the LEFT + and RIGHT - as the two connections. The 2 and 4 channel amplifiers will perform into 4 and 2 Ohm stereo loads or 4 Ohm bridged loads. DO NOT run 2 Ohm bridged loads on these amplifiers! The mono blocks will run 1 ohm mono.

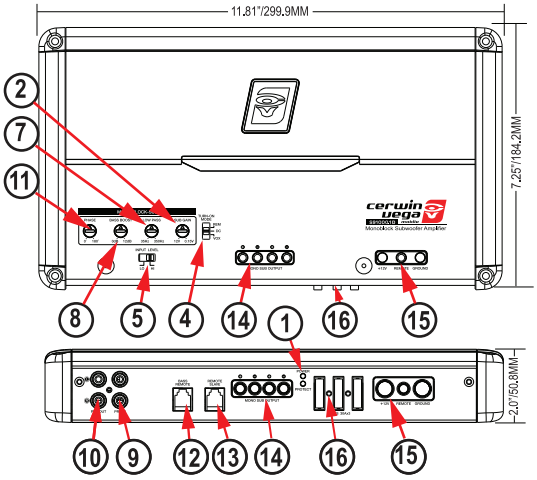
⑮ **POWER INPUT** - These connections are for input power, chassis ground, and remote turn-on. Use a minimum of 8 gauge wiring for power and ground connections. 4 Guage is recommended for the mono block. The terminals will handle up to 4 gauge wiring with no problem whatsoever. Be sure any wiring that passes through metal has a grommet! DO NOT USE CCA power/ground wire!!

⑯ **FUSES** - Fuses are installed on ALL S9 series amplifers to protect ...the VEHICLE! They do NOT protect the amplifier. This is true of every amplifier built today. IF you "blow" fuses, then check your electrical system. **AGAIN - make sure you DO NOT use CCA wire power kits!**

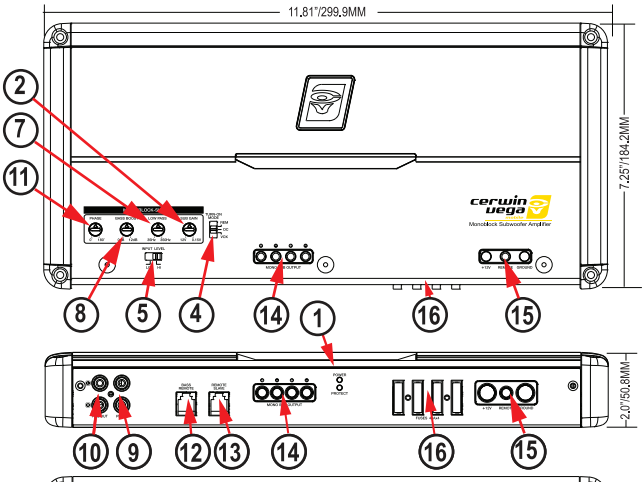
THIS VOIDS your warranty - NO EXCEPTION!

S91000.1D

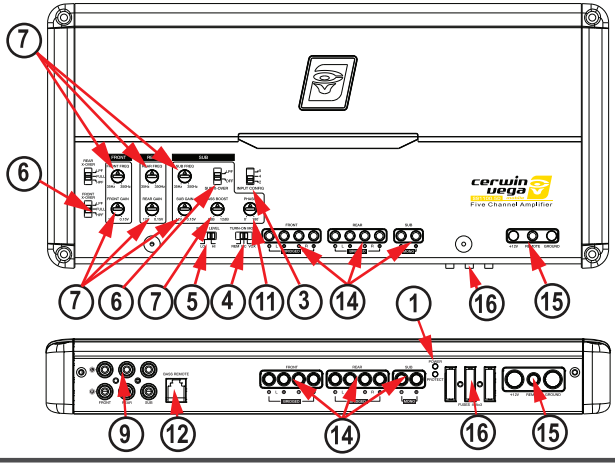
Continuous
Current
Circuitry



S91500.1D



S91100.5D



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⑯ **FUSES -** Fuses are installed on ALL S9 series amplifers to protect ...the VEHICLE! They do NOT protect the amplifier. This is true of every amplifier built today. IF you "blow" fuses, then check your electrical system. **AGAIN - make sure you DO NOT use CCA wire power kits!**

THIS VOIDS your warranty - NO EXCEPTION!

VEHICLE ELECTRICAL SYSTEM

Amplifiers (regardless of brand name) will put an increased load on the vehicle's battery and charging system. CERWIN VEGA MOBILE recommends checking your alternator and battery condition to ensure that the electrical system has enough capacity to handle the increased load of your stereo system. Original equipment electrical systems which are in good condition should be able to handle the extra load of any CERWIN VEGA MOBILE amplifier without problems, although battery and alternator life can be reduced depending on your individual listening habits. To maximize the performance of your amplifier, we suggest the use of a reserve power "Stiffening" capacitor (1 Farad per 1000W).

WARNING:

Avoid running power wires near the low level input cables, antenna, power leads, sensitive equipment or harnesses. The power wires carry substantial current and could radiate noise into the audio system through the audio cables.

1. Plan the wire routing as described in the "Importance of Pre-Planning" section. Keep RCA cables close together but isolated from the amplifier's power cables and any high power vehicle accessories, especially electric motors. This is done to prevent coupling the noise from radiated electrical fields into the audio signal. When feeding the wires through the firewall or any metal barrier, protect them with plastic or rubber grommets to prevent short circuits. Leave the wires long at this point to adjust for a precise fit at a later time.

2. Prepare the power wire for attachment to the amplifier by stripping 5/8 inch (15.9mm) of insulation from the end of the wire. Insert the bare wire into the B+ terminal and tighten the set screw to secure the cable in place.

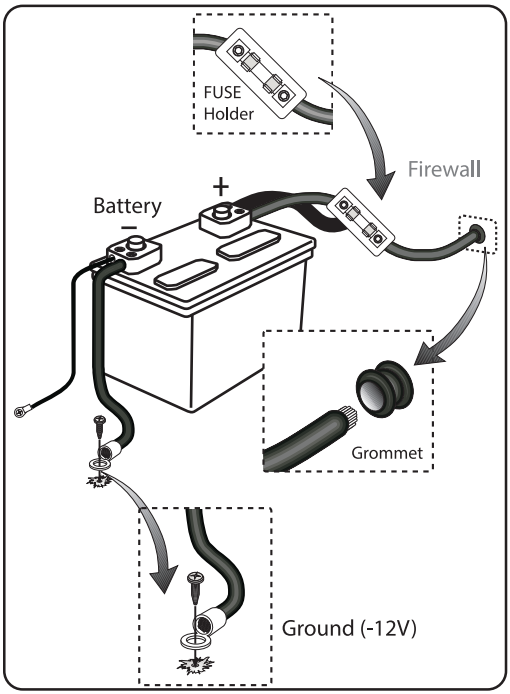
WARNING:

The B+ cable MUST be fused 18" or less from the vehicle's positive battery post. Choose a location to install a waterproof fuseholder under the hood and ensure connections are water tight. If you do not use the appropriate fuseholder, the connection will eventually suffer corrosion from moisture and heat.

3. Trim the power cable within 18 inches (45.7mm) of the positive battery post and splice in an in-line fuse holder. DO NOT install the fuse at this time.

4. Strip 1/2 inch (12.7mm) from the battery end of the power cable. Crimp and soldier a large ring terminal to the cable. Connect the ring terminal to the positive (+) battery post.

FUSE WIRE DIAGRAM



5. Prepare the ground wire for attachment to the amplifier by stripping 5/8" of insulation from the end of the wire. Always use a wire of the same gauge as the power connection, never smaller. Insert the bare wire into the GND terminal and tighten the set screw to secure the cable in place. Prepare the chassis ground by scraping any paint from the metal surface and thoroughly clean the area of all dirt and grease. Strip the other end of the wire, crimp and solder a ring connector. Fasten the cable to the chassis using a non-anodized screw with a star washer and a nut.

WARNING: It is important to upgrade the ground connection between the negative (-) battery post and thevehicle body or chassis to achieve optimum electrical performance.

BATTERY FUSE RATINGS

BY AMPLIFER MODEL

S9500.2D = 50A
S9600.4D = 60A
S9750.1D = 90A
S91000.1D = 60A
S91500.1D = 120A
S91100.5D = 90A

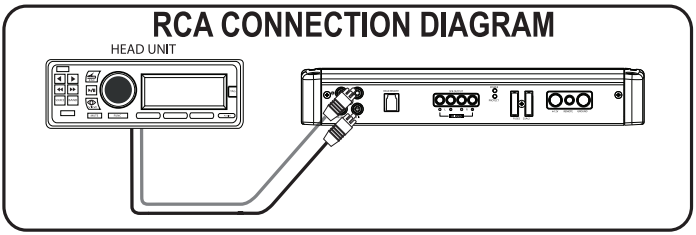
SPECIAL NOTE: DO NOT EXCEED THESE FUSE RATINGS AND NEVER USE CCA WIRE!

6. Prepare the REM turn-on wire for attachment to the amplifier by stripping 5/8 inch (15.9mm) of insulation from the end of the wire. Insert the bare wire into the REM terminal and tighten the set screw to secure the wire in place. Connect the other end of the REM wire to a switched 12 volt positive source. The switched voltage is usually taken from the source unit's remote amp turn on lead. If the source unit does not have this output available,the recommended solution is to wire to an accessory terminal in the car's fuse block using a relay to isolate the amplifer from the vehicles accessory circuit. This however will turn the amplifier on and off with the ignition key, regardless of whether the car stereo is on or off.

7. Securely mount the amplifier to the vehicle or amp rack. Be careful not to mount the amplifier on cardboard or plastic panels. Doing so may enable the screws to pull out from the panel due to road vibration or sudden vehicle stops.

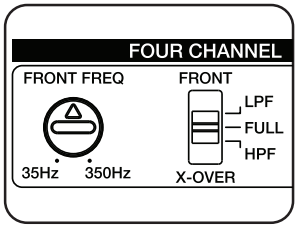
8. Connect from source signal by connecting the RCA audio cables to the input jacks at the amplifier.

RCA CONNECTION DIAGRAM



9. Connect the vehicle speakers. Speakers impedance should never be less than 2 Ohms stereo, 4 Ohms bridged. For most applications 18 gauge wire is adequate for the speaker leads. For leads in excess of ten feet, 16 gauge wire is recommended. Strip the speaker wires 1/2" (12.7mm) and insert into the speaker terminal block then tighten the set screw to secure into place. When wiring the speakers, pay careful attention to the polarity of the terminals on the speakers and make certain they correspond to the polarity on the amplifier. DO NOT chassis ground any of the speaker leads as unstable operation or damage to the amplifier and/or speaker may result.

Placing the XOVER switch in the FULL position sets the amplifier to Full Range. This setting allows ALL frequencies to pass to the speakers. With placing the switch in the HPF or LPF position activates the 12dB crossover, adjustable from 35Hz - 350Hz. The S9750.1D/1000.1D and 1500.1D mono has a dedicated for Low Pass (LPF) only with an adjustable frequency from 35Hz - 350Hz. The S91100.5D (5 channel) amplifier offers full range (FULL) high pass (HPF) or low pass (LPF) selector switch for channels 1-4. Channel. Sub channel is LPF or OFF (for DSP processing)



Placing the switch in the HPF position sets the amplifier to the High Pass Filter mode, enabling frequencies above the cutoff point to pass. Placing the switch in the LPF position sets the amplifier to the Low Pass Filter mode, enabling frequencies below the cutoff point to pass. For system tuning begin with the frequency set at approximately 80Hz and fine tune up or down based on music choice and input level.

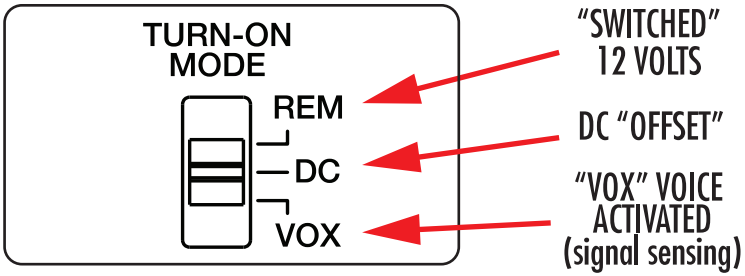
To adjust the gain setting, turn the amplifier gains all the way down (counterclockwise). If using a remote level control (ALL S9 series amplifiers), plug the level control into the amplifier and turn it to about "HALF-WAY" (approx. the 12 O'clock position) this setups the bass boost so you can turn it UP...OR... turn it DOWN when playing different music styles. Next turn the source unit volume up to almost full volume (usually about 2/3rds of the way up) or until the output starts to distort on an oscilloscope. This will be NEARLY full volume on most source units, perhaps one or two "clicks" down from maximum volume. Next, increase the amplifier gain setting until adequate volume is achieved, or until distortion is audible and then turn it down a bit until the distortion is inaudible.

NOTE: Ideal signal to noise and dynamic range are achieved with the gain at minimum. Most users find adequate gain and volume is achieved at less than halfway in the adjustment range. Avoid setting the amplifier gain very high as noise and distortion will increase significantly. For a more in depth level setting (gain adjustment) procedure, visit the CERWIN VEGA MOBILE website.

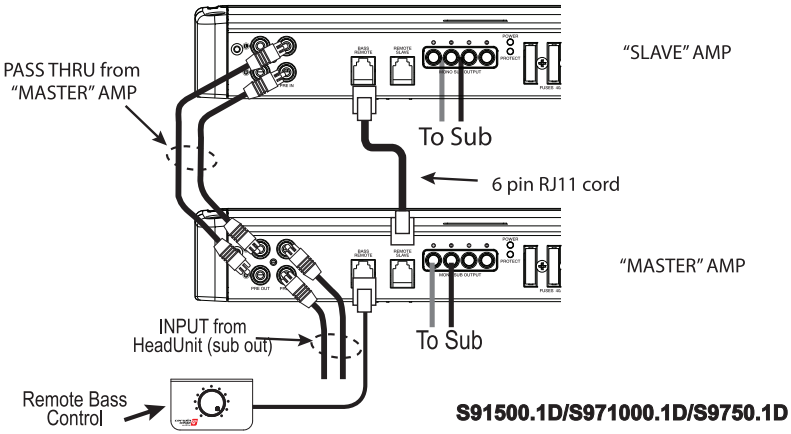
The HPF or LPF crossover adjustment can now be fine tuned. If you are using the amplifier in a HPF configuration and would like the system to be a little bit louder you can increase the HPF Filter frequency and reset the "Gain" of the amplifier. Raising the HPF frequency up too high however will cause a loss of mid range and bass. If you are using the amplifier in a LPF configuration and you hear voice or vocals coming from your subwoofer system you can turn the LPF frequency down (lower). After setting the input gain adjustment and crossover, you may choose to add a small amount of “Bass Boost" in the low frequency region. Remember that the Bass Boost feature will not fix a poorly designed subwoofer enclosure or subwoofers that didn't sound good to begin with.

1. Make sure any bass EQ or low frequency equalization from the source unit is set to OFF or FLAT.
2. While playing the same musical selections used during the gain setting process, slowly increase the level of the Bass Boost. You should be able to notice a change between 0 and +12dB. At the same time adjust frequency slowly from 35 -350Hz. If you do not notice much difference, then it will not serve any benefit to increase the boost further.
3. If the boost has audible benefits without adding appreciable distortion, find a level that suits your taste. Remember: it's much easier to construct the right subwoofer enclosure for your listening preferences than relying on a bass boost control to do the job!

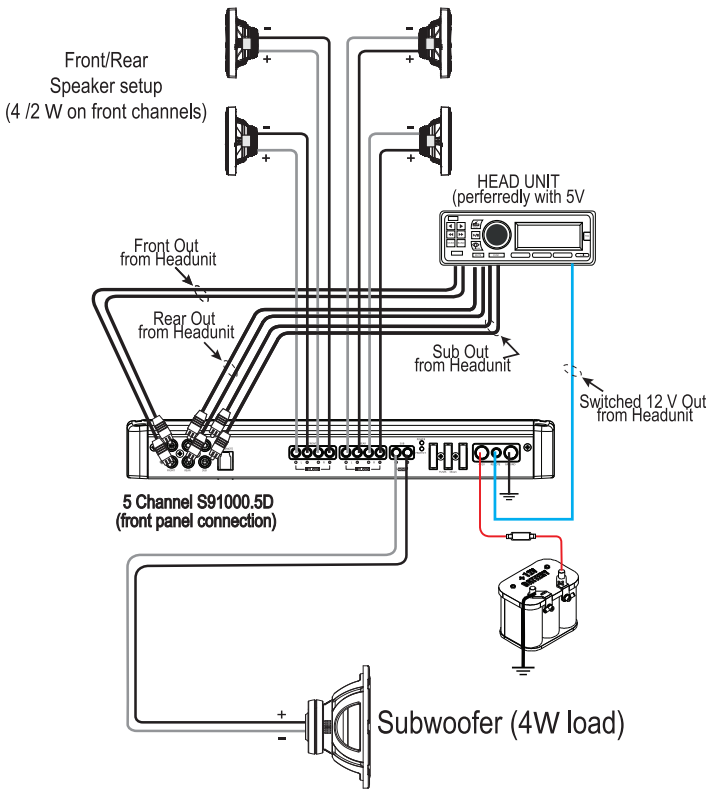
4.TURN-ON MODE OPTIONS - Configure the “Turn-On Mode” switch for desired turn-on trigger. There are 3 modes available on the S9 series amplifier, REM, DC and VOX. 1 - (REM) is the standard 12V trigger wire, 2 - (DC) or DC offset, when connected high level in, will sense differences in ground in your wiring through the speaker leads and turn on amplifier, 3 - VOX (signal sensing) will sense signal input into the amplifier RCA INPUT turning on the amplifier. The most preferred and reliable method is using the REM setting with a 12V trigger wire connected to the vehicles ignition and will provide instant on and off for the amplifier. VOX and DC will provide turn on capabilities for the amplifier when a 12V trigger wire is not available. These methods will have some delay in turning the amplifier on and off.



5. REMOTE LEVEL/REMOTE LEVEL “SLAVE” – These RJ11 ports are specifically designed to be used with the CERWIN VEGA MOBILE Bass Remote controller. This will allow direct plug in control (level) of the subwoofer output. It is a proprietary design and can ONLY be used with Cerwin Vega Mobile amplifiers. This controller allows the user to adjust the subwoofer level control totally seperate from the bass EQ that is in your car audio source unit. It is a GAIN control that specifically controls the subwoofers level from 0 to +12dB more GAIN. Be careful as this will cause distortion at high levels as no car audio amplifier has 12 dB of gain (this is equivalent to 20 times more power output DEMAND when the Remote Bass knob is turned all the way up - clockwise) Assuming you have a 1,000 watt monoblock (like a S91000.1D) you would be asking the amplifer to produce 20,000 watts for a brief period of time. Also with our S91500.1D, S91000.1D and S97500.1D there is an additional RJ11 Remote Bass Slave Port (See below).
This makes using 2 CERWIN VEGA MOBILE monoblock amplifiers subwoofer level adjustment simple using only ONE (1) Remote Bass Control. See below:



5 CHANNEL - COMPLETE SYSTEM (S91100.5D)



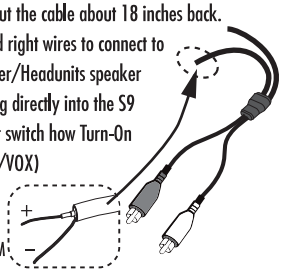
Speaker level Input (Hi Level)

This is for OEM radios with NO RCA outputs, only speaker outputs. For each speaker or subwoofer that you plan to drive, with an amplifier channel, strip back a small part of your vehicle's color-coded left and right speaker wires then splice in the wires that lead to your amplifier. (Solder or crimp, and secure the connection for optimum performance.)

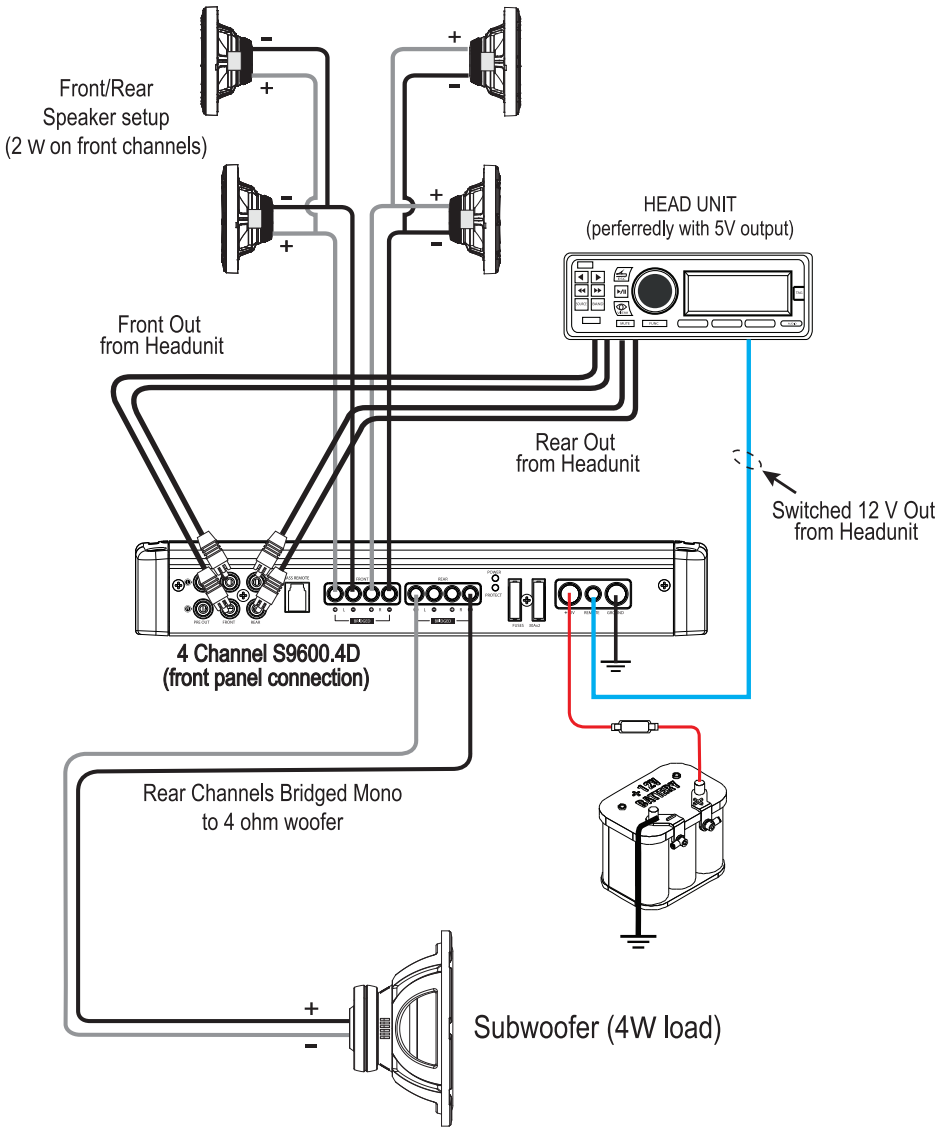
NOTE: Amplifying front seat speakers will require you to run wiring thru a door jamb or the floor carpeting to reach the speakers. Likewise, if your amp is under a front seat, the front speakers are more accessible than the rear ones. If your amp is in your trunk, it's a relatively short path to rear deck speakers or a subwoofer.

SPEAKER LEVEL INPUT (OPTIONAL):

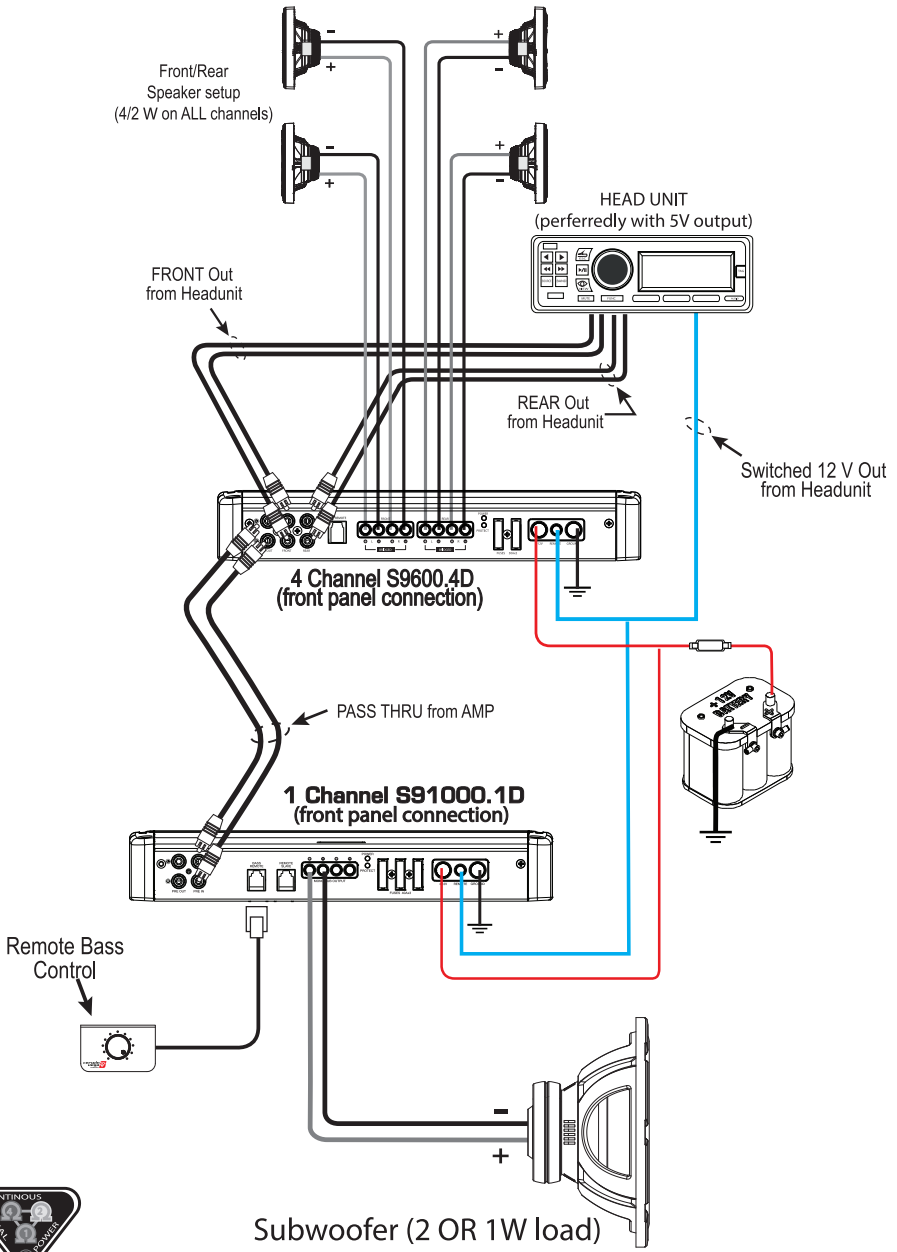
Since the S9 series amplifiers can take speaker level in , here is the simpliest way to use it. Get an in-expensive pair of RCA's. Cut the cable about 18 inches back. Strip the left and right wires to connect to the OEM amplifier/Headunits speaker outputs then plug directly into the S9 RCA inputs. Just switch how Turn-On works (REM/DC/VOX)



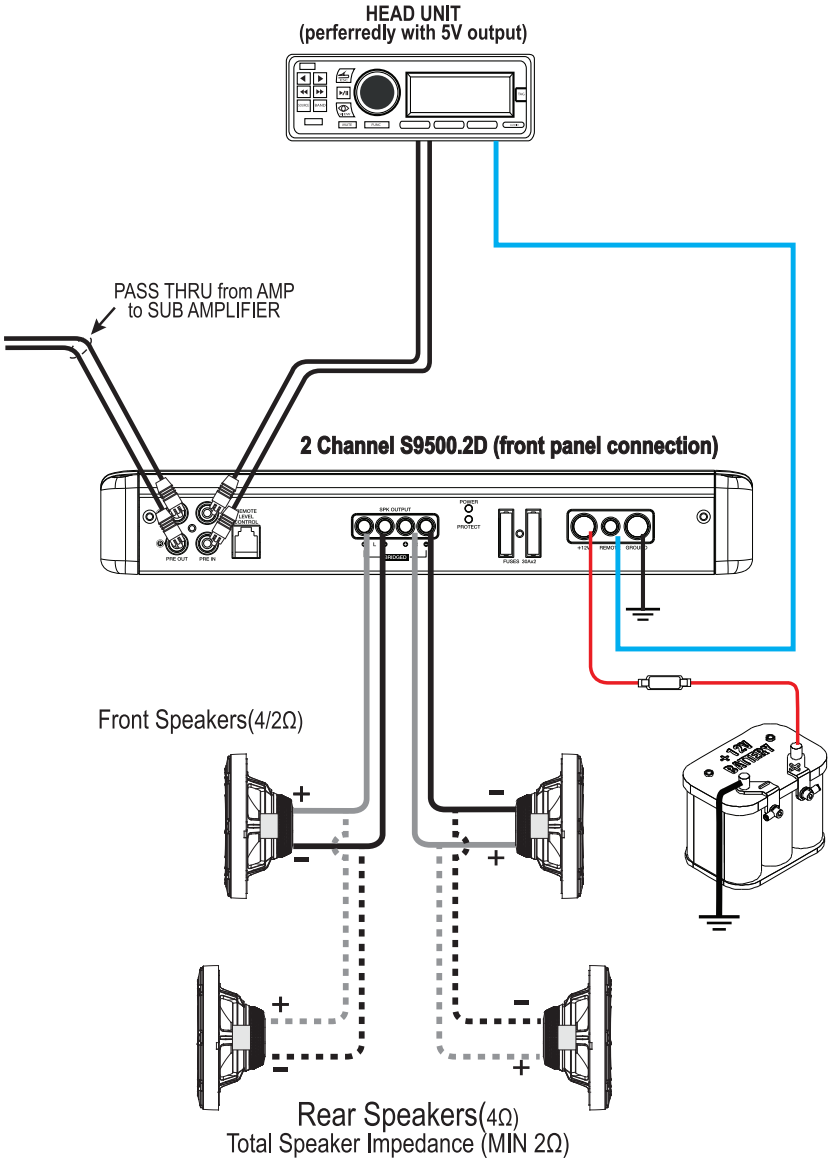
4 CHANNEL - 3 CHANNEL MODE
(S9600.4D)



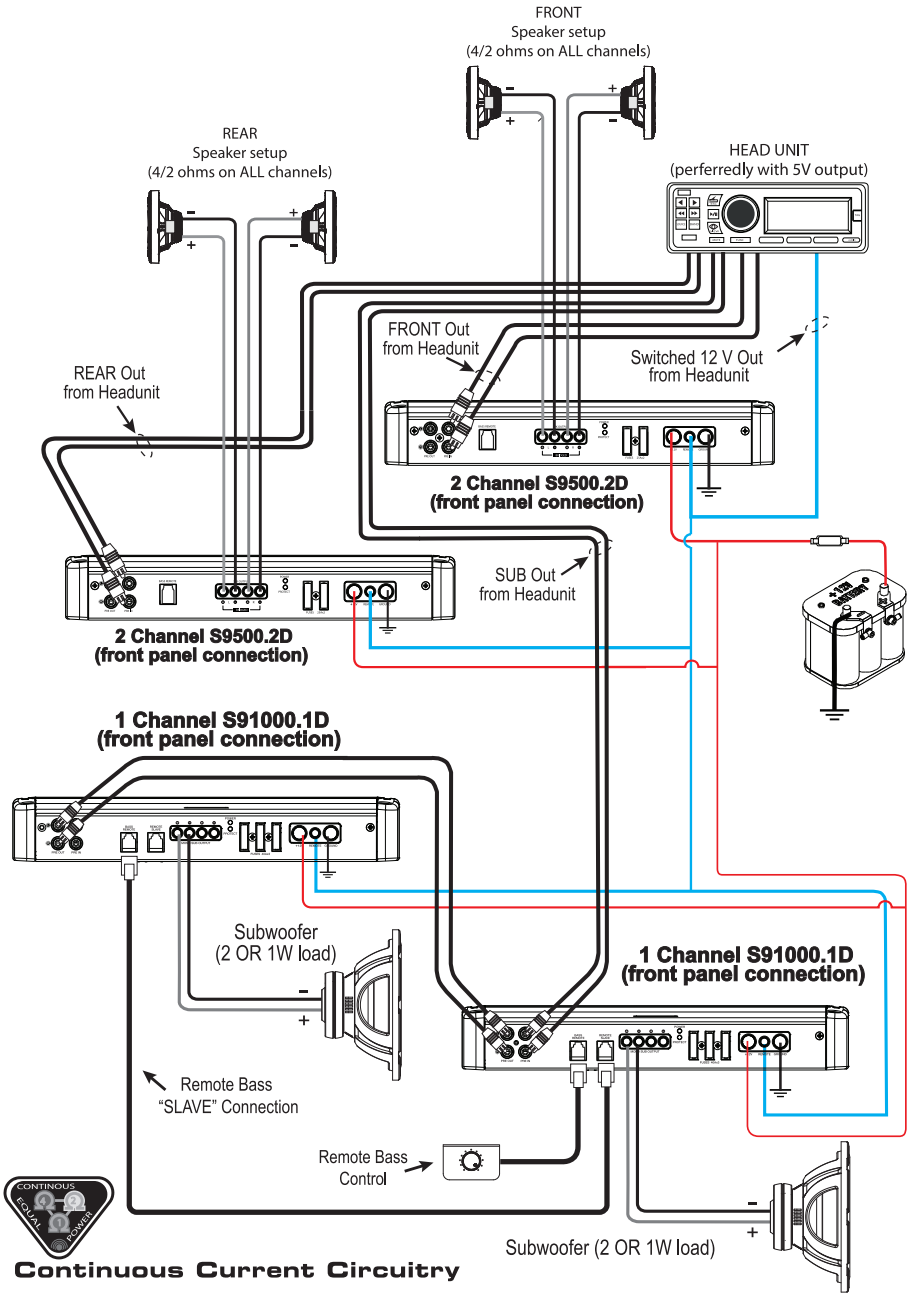
5 CHANNEL - COMPLETE SYSTEM (S9600.4D/S91000.1D)



STEREO 1 AMP / 4 SPEAKERS - 2 0HM LOAD (S9500.2D)



6 CHANNEL / 4 AMPLIFIER SYSTEM (S9500.2D STEREO 4/2 OHM S91000.1D MONO 2/1 OHM)



Continuous Current Circuitry

Specifications

MODEL:	S9500.2D	S9600.4D	S91100.5D
Power Rating			
RMS Power (2 Ω)	250 W X 2	170 W X 4	150 W X 4 /250 X 1
RMS Power (4 Ω)	200 W X 2	140 W X 4	90 W X 4 /150 X 2
Bridged (mono 1 Ω)	N/A	N/A	N/A
Bridged (mono 2 Ω)	N/A	N/A	N/A
Bridged (mono 4 Ω)	500 W X 2(4 Ω ONLY)	400 W X 2(4 Ω ONLY)	300 W X 2/500 W X 1(Ch 5/6 bridged)
Type			
Topology	Full-Range Class D	Full-Range Class D	Full-Range Class D
Power Supply			
Power Supply	Full PWM	Full PWM	Full PWM
Power Supply Threshold	10.0VDC - 17.0VDC	10.0VDC - 17.0VDC	10.0VDC - 17.0VDC
Idle Current	(0.7A)	(0.7A)	(0.7A)
Distortion			
THD (1KHz @4Ω)	0.05%	0.07%	0.03%
S/N Ratio (A weighted @1W)	-77.2dBA	–77.4dBA	–76.7dBA
S/N Ratio (A weighted @ FP)	-98.9dBA	-97.4dBA	-96.7dBA
Input Sensitivity			
Low Input Level	0.2mV - 12.0V	0.2mV - 10.0V	0.2mV - 10.0V
High Input Level	YES - UP to 25 W RMS	YES - UP to 25 W RMS	YES - UP to 25 W RMS
Input Impedance			
Low Input Level High Input Level	22 KΩ	22 KΩ	22 KΩ
Output Stage			
Output Impedance	0.047Ω	0.047Ω	0.051 Ω
Damping Factor (50Hz @ 4Ω)	>250	>250	>70
Bandwidth (-3dB)	10Hz-35KHz	10Hz-35KHz	10Hz-350Hz
Crossover (-12dB/Oct)			
Variable High-Pass	35Hz - 350Hz	35Hz - 350Hz	35Hz - 350Hz
Variable Low-Pass	35Hz - 350Hz	35Hz - 350Hz	35Hz - 350Hz
Variable Sub-Sonic	N/A	N/A	N/A
Fuse Ratings			
ATC	2 X 25A	2 X 30A	3 X 30A
Dimensions			
Lenght x Width x Height (inches)	11.81 x 7.25 x 2.0	11.81 x 7.25 x 2.0	14.1 x 7.25 x 2.0
Lenght x Width x Height (mm)	299.9 x 184.2 x 50.8	299.9 x 184.2 x 50.8	358.14 x 184.2 x 50.8

Specifications

MODEL:	S9750.1D	S91000.1D	S91500.1D
Power Rating			
RMS Power (1Ω)	500 W X 1 RMS	1000 W X 1 RMS	1500 W X 1 RMS
RMS Power (2 Ω)	500 W X 1 RMS	1000 W X 1 RMS	1500 W X 1 RMS
RMS Power (4 Ω)	400 W X 1 RMS	800 W X 1 RMS	1100 W X 1 RMS
Type			
Topology	MonoBlock Class D	MonoBlock Class D	MonoBlock Class D
Power Supply			
Power Supply	Full PWM	Full PWM	Full PWM
Power Supply Threshold	10.0VDC - 17.0VDC	10.0VDC - 17.0VDC	10.0VDC - 17.0VDC
Idle Current	(0.7A)	(0.7A)	(0.7A)
Distortion			
THD (1KHz @4Ω)	0.05%	0.07%	0.07%
S/N Ratio (A weighted @1W)	-77.2dBA	–77.4dBA	–77.4dBA
S/N Ratio (A weighted @ FP)	-98.9dBA	-97.4dBA	-97.4dBA
Input Sensitivity			
Low Input Level	0.2mV - 10.0V	0.2mV - 10.0V	0.2mV - 10.0V
High Input Level	YES - UP to 25 W RMS	YES - UP to 25 W RMS	YES - UP to 25 W RMS
Input Impedance			
Low Input Level	22 KΩ	22 KΩ	22 KΩ
High Input Level	22 KΩ	22 KΩ	22 KΩ
Output Stage			
Output Impedance	0.047Ω	0.047Ω	0.047Ω
Damping Factor (50Hz @ 4Ω)	>250	>250	>250
Bandwidth (-3dB)	10Hz-350Hz	10Hz-350Hz	10Hz-350Hz
Crossover (-12dB/Oct)			
Variable High-Pass	N/A	N/A	N/A
Variable Low-Pass	35Hz - 350Hz	35Hz - 350Hz	35Hz - 350Hz
Variable Sub-Sonic	N/A	N/A	N/A
Fuse Ratings			
ATC	3 X 30A	3 X 30A	3 X 40A
Dimensions			
Lenght x Width x Height (inches)	11.81 x 7.25 x 2.0	11.81 x 7.25 x 2.0	14.1 x 7.25 x 2.0
Lenght x Width x Height (mm)	299.9 x 184.2 x 50.8	299.9 x 184.2 x 50.8	358.14 x 184.2 x 50.8

Warranty

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

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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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