



# **HED POWERED SERIES SUBWOOFER**



## **H6TE10SU/H6TE12SU**

## **USER MANUAL**

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# Introduction

## Cerwin Vega Mobile Loaded Enclosures

Thank you for purchasing a Cerwin Vega Mobile Powered Enclosures for your car audio system. You have chosen Cerwin Vega Mobile because you deserve the best!

Cerwin Vega Mobile Powered Enclosures 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 subwoofer enclosure installed by an authorized Cerwin Vega Mobile dealer. Our authorized dealers have the necessary experience and installation equipment to ensure that your subwoofer enclosure will deliver maximum performance and explain all the details pertaining to our warranty coverage as well.

If you decide to install the subwoofer enclosure by yourself, please thoroughly read through this manual before getting started. This manual will help familiarize yourself with this subwoofer enclosure 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 capabilities of the subwoofer enclosure. If you require additional assistance, please contact the Cerwin Vega Mobile Technical Support Department during business hours at 213-261-4161.

## Specifications

MODEL:	H6TE10SV	H6TE12SV
Power	150 WRMS/300 WMAX	150 WRMS/300 WMAX
THD	<0.4%	<0.4%
Signal-to-noise ratio	>90dB	>90dB
Frequency response	30Hz - 150Hz	30Hz - 150Hz
Input sensitivity(Hi/Lo)	0.2V - 20V	0.2V - 20V
Low Pass Filter	85Hz - 150Hz	85Hz - 150Hz
Bass Boost	0 to + 12dB	0 to + 12dB
Subsonic Filter	30Hz	30Hz
Fuse rating	25A	25A
Subwoofer	10inch, 2ohm	12inch, 2ohm
Dimensions(L x W x H) inches	28" x 7.7" x 14"	30" x 7.7" x 16"
mm	711 x 195 x 359	762 x 195 x 406.4

*All specifications subject to change without notice.*

## A. POWER STATUS LED

This bi-color LED glows green when power is on and no problems are present. If one of the protection circuits comes on, it will change to red. If this happens call your retailer, or CVM

## B. VARIABLE PHASE

Use this potentiometer (0 to 180 degrees of adjustment) to help compensate for time alignment problems in the system. Such problems usually result from having the subwoofer at a different distance from the listener than the other speakers in the system. This will effectively "move" the sound of the subwoofer forward in the vehicle. This takes 2 people to adjust. It is well worth the effort!!

## C. AUTO TURN ON

The AUTO TURN ON circuit is for high level (speaker-level) connections. When the switch is in the "REM" position, you MUST use a solid 12 volts to switch on. If you have no hard switched 12 volts (like the ignition key or an aftermarket radio switch 12V output) then use either the VOX (signal sensing) or DC offset (looks at the difference between power and signal ground).

## D. LOW PASS FILTER

This control permits you define the frequency range you want the subwoofer amplifier to receive. The subwoofer will reproduce all sound BELOW the frequency you set.

## E. BASS BOOST

The BASS BOOST feature will increase the sound level in the bass frequencies.

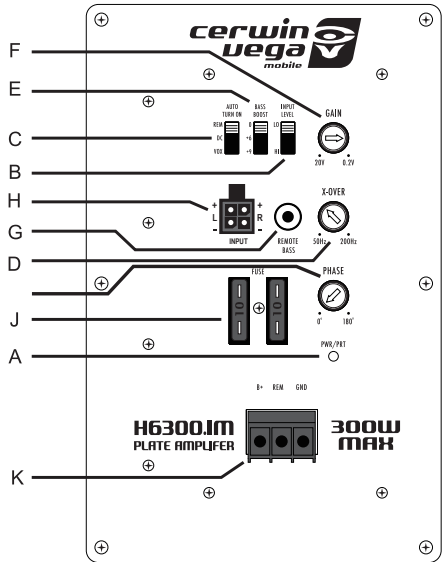
## F. INPUT GAIN CONTROL

After you have installed your system, turn this control to minimum. Turn the head unit on (and the subwoofer will turn on via the remote connection). Turn the head unit volume UP to about 2/3 full level. Slowly turn up the subwoofer input gain control until you hear distortion. Then reduce the level until the distortion is completely gone. Leave the control at this setting.

## G. REMOTE LEVEL CONTROL PORT

Attach the included remote level control (included) to control the volume level of the subwoofer independently. Set this at 1/2 during gain adjustment.

## Panel controls and features



## H. HIGH LEVEL (speaker level) INPUTS

If your head unit does not have RCA outputs you can use the speaker outputs for the audio source for the subwoofer. Use the supplied cable and wire harness and connect the outputs properly as shown in the connection diagram in this manual.

## I. LOW LEVEL RCA INPUTS

Low level inputs are the recommended way to introduce the audio signal to the subwoofer if RCA outputs are present on your head unit or other signal source (such as a sound processor).

## J. FUSE

Do not use a fuse with a different value and NEVER replace the fuse with a wire or coin.

## K. POWER INPUT TERMINAL

This is the DC (battery) input. It is DETACHABLE! We recommend 8 gauge power AND ground wire be used.

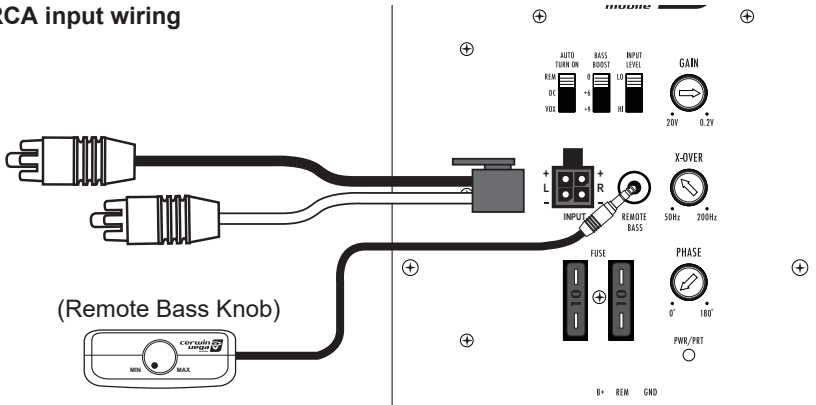
# Installation

## Low Level Input Wiring

Low-level (RCA) input wiring is preferred for best audio performance. Most trunk or hatchback installations will require a 15-20 feet RCA cable, while pickup trucks and under-seat installations will require a 6-12 feet RCA cable. Always use a high quality cable.

**NOTE: Do not connect BOTH the high level and low level inputs from your receiver to your amplifier at the same time!**

### RCA input wiring



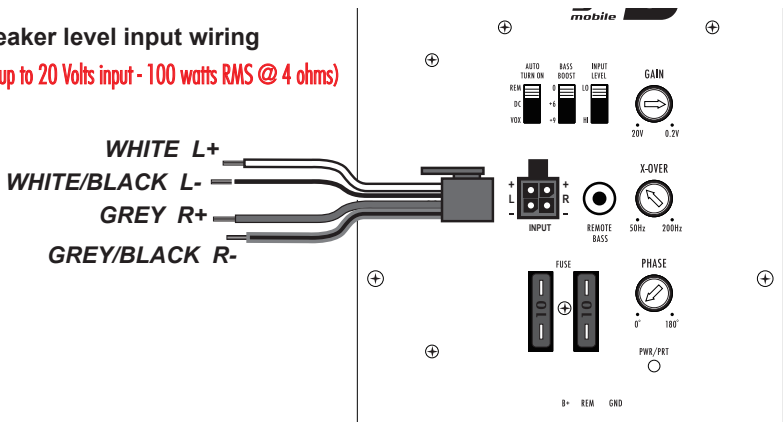
## High Level Input Wiring

The high level input(s) should only be used if RCA outputs are not present. If the RCA outputs are not present, connect the speaker outputs from the receiver to the high level input connector of the amplifier. Make sure to check polarity going into the subwoofer amplifier. If the inputs are out of phase there will be NO bass!!!

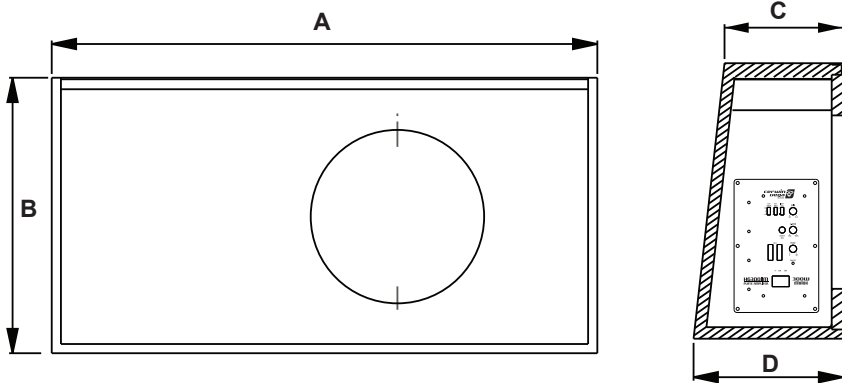
**NOTE: Do not connect BOTH the high level and low level inputs from your receiver to your amplifier at the same time!**

### Speaker level input wiring

(Will accept up to 20 Volts input - 100 watts RMS @ 4 ohms)



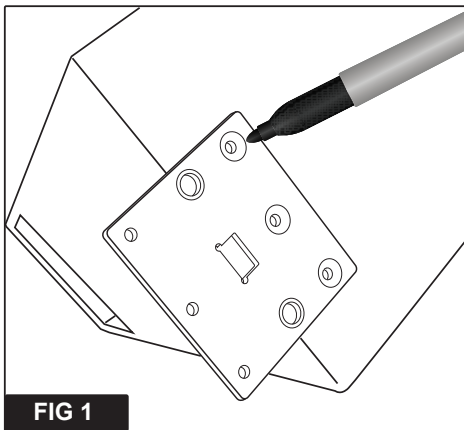
# Dimensions



	A	B	C	D
<b>H6TE10SV</b>	28"/711mm	14"/359mm	6.1"/155mm	7.7"/195mm
<b>H6TE12SV</b>	30"/762mm	16"/406.4mm	6.1"/155mm	7.7"/195mm

# Installation

**OPTIONAL** - Mounting tabs to secure the subwoofer to the car body



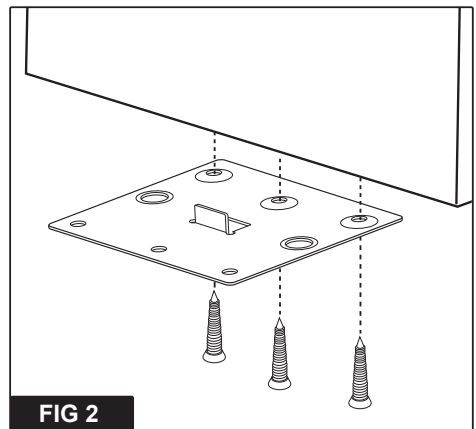
**FIG 1**

## MOUNTING TABS (included)

There are 2 flat plates that can be mounted on the left and right side of the enclosure as shown in FIG1. Use a Sharpie felt pen and mark where you will drill the 1/8" hole for the #8 1" long wood screws (included)

## MOUNTING THE TABS

Once the holes are drilled screw the 2 flat plates down on the left and right side of the enclosure as shown in FIG 2. Use a #2 philips screw driver and secure the screws on the mounting plate into the enclosure.



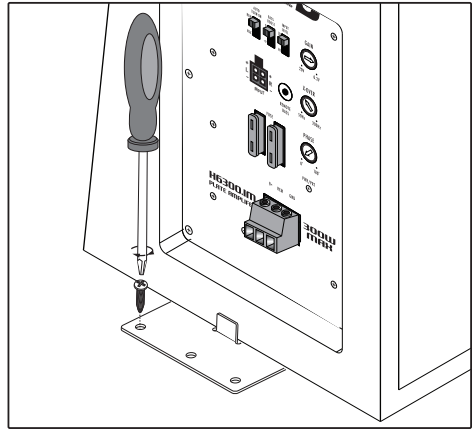
**FIG 2**

# Installation

## MOUNTING TABS TO VEHICLE

Slide the subwoofer enclosure into the vehicle's trunk as close to the rear seat wall as possible, and centered. Use a Sharpie felt pen and mark where you will drill the 1/8" hole for the #8 1" long metal screws (included) into the floor of your trunk

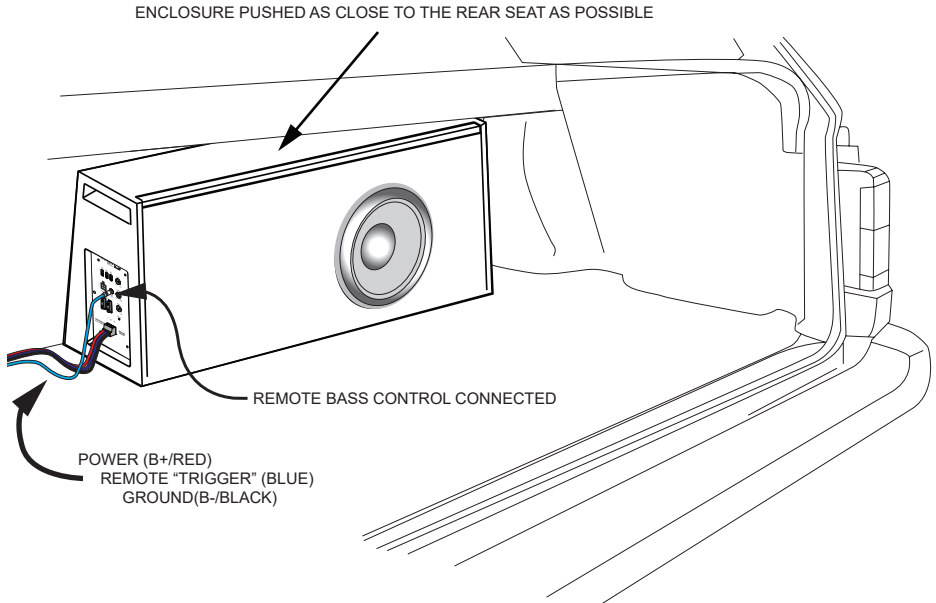
**NOTE: Be very careful NOT to drill into the gas tank!!!**



**CAUTION!! Make sure to not drill or screw into the vehicles gas tank!!!**



## Correct Placement in trunk



## Troubleshooting

If you experience operation or performance problems with this product, compare your installation with the electrical wiring diagram on the previous pages. If problems persist, read the following troubleshooting tips which may help eliminate the problems.

SYMPTOM	POSSIBLE REMEDY
<b>Amplifier will not power up.</b>	<p>Check to make sure you have a good ground connection.</p> <p>Check that the Remote Input (Turn-On) has at least 5VDC.</p> <p>Check that there is battery power on the (+) terminal.</p> <p>Check that there is at least 12v.</p> <p>Check all fuse, replace if necessary.</p> <p>Make sure that the Protection LED is not illuminated. If it is lit, shut off the amplifier briefly, and then repower it.</p>
<b>Protection LED comes on when amplifier is powered up</b>	<p>Check for short circuits on speaker leads.</p> <p>Turn down the volume control on the head unit to prevent overdriving.</p> <p>Remote speaker leads, and reset the amplifier. If the Protection LED still comes on, then the amplifier is faulty and needs servicing.</p>
<b>No output.</b>	<p>Check that all fuses are OK.</p> <p>Check that unit is properly grounded.</p> <p>Check that the Remote Input (Turn-On) has at least 10VDC.</p> <p>Check that the RCA audio cables are plugged into the proper inputs.</p> <p>Check all speaker wiring.</p>
<b>Low output.</b>	<p>Reset the Level Control.</p> <p>Check the Crossover Control settings.</p>
<b>High hiss in the sound.</b>	<p>Disconnect all RCA inputs to the power sub's control panel. If the hiss disappears, then plug in the component driving the amplifier and unplug its inputs. If the hiss disappears at this point, go on until the faulty/noisy component is found.</p> <p>It is best to set the amplifier's input level control as low as possible. The best subjective signal-to-noise ratio is achieved in this manner. Try to set the head unit as high as possible (without distortion) and the amp input level as low as possible.</p>
<b>Squealing noise is present.</b>	<p>Check for improperly grounded RCA interconnects.</p>
<b>Distorted sound.</b>	<p>Check that the Input Level Control is set to match the signal level of the head unit. Always try to set the Input Level as low possible.</p> <p>Check that all crossover frequencies are properly set.</p> <p>Check for short circuits on the speaker leads.</p>
<b>Amplifier gets very hot.</b>	<p>Check that the minimum speaker impedance for the amp model is correct.</p> <p>Check that there is good air circulation around the amp. In some applications, it may be necessary to add an external cooling fan.</p>
<b>Engine noise (static type)</b>	<p>This is usually caused by poor quality RCA cables, which can pick up radiated noise. Use only the best quality cables, and route them away from power cables.</p>
<b>Engine noise (alternator whine)</b>	<p>Check that the RCA grounds are not shorted to the vehicle chassis</p> <p>Check that the head unit is properly grounded.</p>

# 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](http://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

1225 E. 7th St.

Los Angeles, CA 90021 USA

Please Contact Customer Service for Further Warranty Information:

U.S.A.

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

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