

**cerwin**  
**vega**  
mobile



**vega**  
**series**



**UPSTX12**

SHALLOW  
VERSION

**12" SHALLOW SPARE TIRE  
POWERED SUBWOOFER**

**MANUAL**

# Introduction

## Cerwin Vega Mobile Amplified Subwoofer

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

Cerwin Vega Mobile products 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 amplified subwoofer 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 your warranty coverage as well.

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

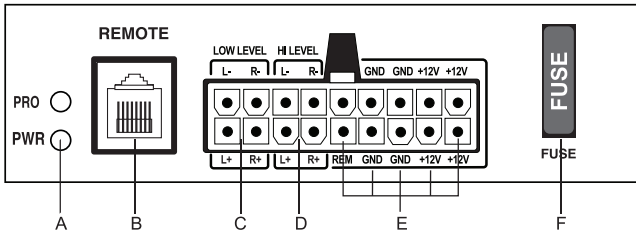
Please contact your local authorized Cerwin Vega Mobile dealer if you have any questions regarding the instructions in this manual or the amplifier's operation capabilities. If you require additional assistance, please contact the Cerwin Vega Mobile Technical Support Department during business hours at 213-212-3187.

## Specifications

<b>MODEL:</b>	<b>VPSTX12</b>
<b>Power</b>	150 WRMS/600 WMAX
<b>THD</b>	<1.0%
<b>Signal-to-noise ratio</b>	>90dB
<b>Frequency response</b>	20Hz - 150Hz
<b>Input sensitivity, high level</b>	0.9V -12V
<b>Input sensitivity, low level</b>	0.3V - 5V
<b>Low Pass Filter</b>	50Hz - 150Hz
<b>Bass Boost</b>	0 to + 12dB
<b>Subsonic Filter</b>	20Hz
<b>Fuse rating</b>	25A
<b>Subwoofer</b>	12 inch (actual 11.3"), 2 ohm
<b>Dimensions(L x W x H) inches/mm</b>	14.2"(360.0) x 14.2"(360.0)x 4.7"(120.0)

*All specifications subject to change without notice.*

## PANEL CONNECTIONS AND FEATURES



### A. POWER STATUS LED

There is a GREEN "power" LED that glows green when power is on and no problems are present. If the protection circuit (PRO) comes on, it will illuminate the other LED RED.

**Note:** Please connect the remote terminal to the remote output of head unit as in Fig.4. When you hear the unit turn ON/OFF there should be a very slight POP noise from the subwoofer.

### B. REMOTE LEVEL CONTROL PORT

You MUST use the Remote Control as this is used to set up level (See G on its functions)

### AUTO POWER CIRCUIT

The AUTO POWER circuit is for high level (speaker-level) connections. When the speaker level connections are used AND the remote turn on wire is NOT used the subwoofer will AUTO POWER ON when signal is detected. If the amplifier detected no signal input, the amplifier will auto turn off.

### C. HIGH LEVEL (speaker) 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 (FIG2, PG5)

**NOTE: NEVER CONNECT BOTH RCA AND SPEAKER INPUTS SIMULTANEOUSLY!!**

### D. LOW LEVEL (RCA) INPUTS

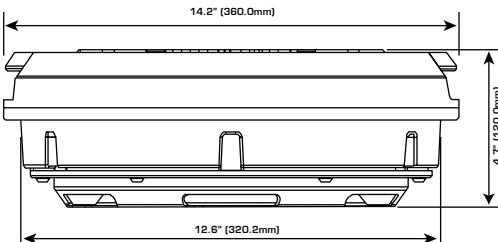
Low level inputs are the recommended way to introduce the audio signal to the subwoofer. If RCA outputs are present on your head unit or other signal source (such as a sound processor - see Figure 1, PG4) use those.

### E. POWER INPUT TERMINAL

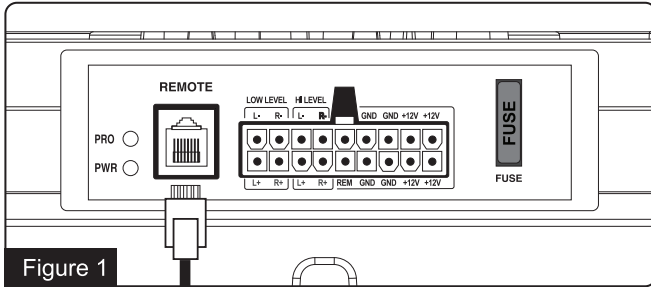
Use 8 guage COPPER wire!! NOT CCA type

### F. FUSE

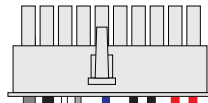
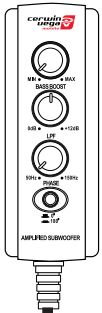
Do not use a fuse with a different value. NEVER replace the fuse with a wire or coin. The fuse is there to protect the vehicle NOT the amplifier/subwoofer.



## PANEL CONNECTIONS AND FEATURES



REMOTE CONTROL



18 PIN POWER INPUT PLUG

RCA/LOW LEVEL INPUT  
(WHITE - LEFT)

RCA/LOW LEVEL INPUT  
(RED - RIGHT)

SPEAKER/HI LEVEL INPUT  
(LEFT WHITE+, WHITE/BLACK -)

SPEAKER/HI LEVEL INPUT  
(RIGHT GREY+, GREY/BLACK -)

B+  
12V From Battery

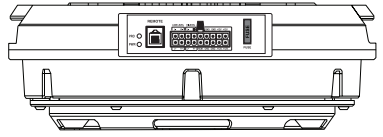
B- Ground Connection  
to Chassis

SWITCHED 12V  
(From Head Unit)

# Installation

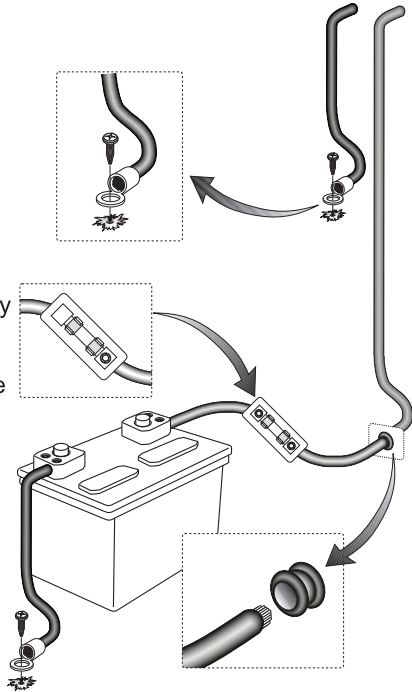
## POWER AND INPUT SIGNAL WIRING

Power wiring is very straight forward. Use a high quality power kit (not supplied)



**NOTE: DO NOT USE CCA wiring kits EVER!!!! Using this type of wire VOIDS your warranty!**

1. Connect your 8 guage power wire **DIRECTLY** to the battery B+ terminal with a high quality ring terminal. Make sure that a fuse holder is approx. 18 inches (457.2mm) from the battery and the fuse should be **NO** larger than 20 amperes.
2. Make sure to run the power wire thru a grommet in the firewall to eliminate any possiblity of shorts.
3. Route the Remote Control cable (phone wire) thru your vehicle to the spare tire area of your trunk.
4. Connect a remote turn on wire to your head units remote output using 16 gauge blue wire (not included)



### **SPECIAL NOTE:**

The VPSTX12 is equipped with an automatic turn on circuit if **NO** switched 12 volts is available for turn-on (when using high level only).

### **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 foot RCA cable, Always use a high quality cable.

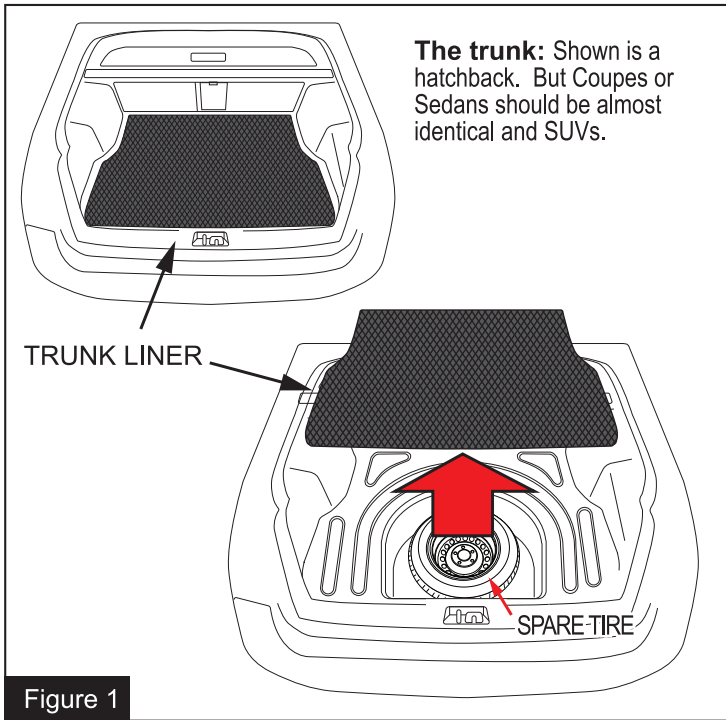
**NOTE: Do not connect BOTH the high level and low level inputs from your receiver to your amplifier at the same time!**

**SPECIAL NOTE: Always route power and signal separately**

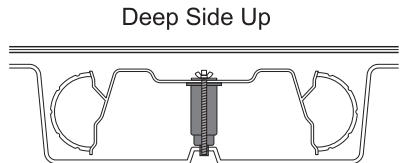
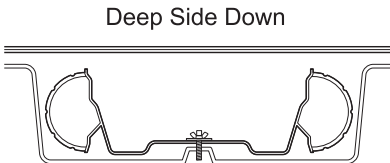
# Installation

This is a VERY simple install and can fit into virtually any car made in the last 10 years. WITHOUT permanently removing your spare tire. Follow the following instructions to a SUPER easy install!

1. Remove the trunk liner. Typically it is NOT screwed or bolted down. It should simple pull out as shown below in Figure 1



2. Once the trunk liner is removed, you can get access to your spare tire  
Make a mental note if the spare tire is deep side down or deep side up???



## FLIP OVER THE SPARE TIRE - IF NEEDED

1. If your spare tire is Deep Side Up then you need to unbolt it and flip it over so the VPSTX12 can sit inside of it.  
(See Figure 2)

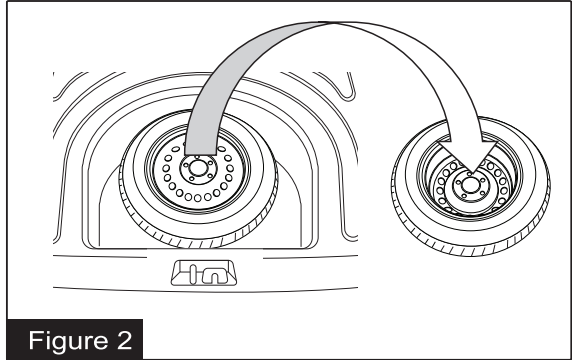


Figure 2

## NO NEED TO FLIP OVER THE SPARE TIRE

2. If your spare tire is Deep Side Down then you simply need to unbolt the spare tire and drop the VPSTX12 in so it can sit inside of it.  
(See Figure 3)

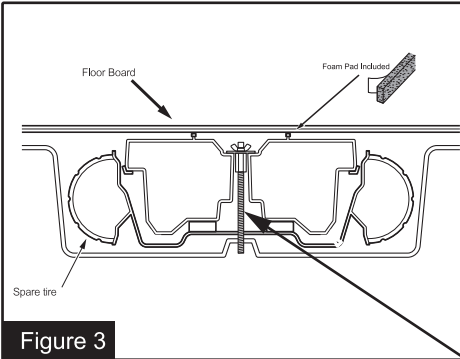


Figure 3

3. Make sure to check what size the mounting bolt is as the VPSTX12 comes with an 8mm and a 10mm mounting bolt. Which should fit 90% of all vehicles out today.

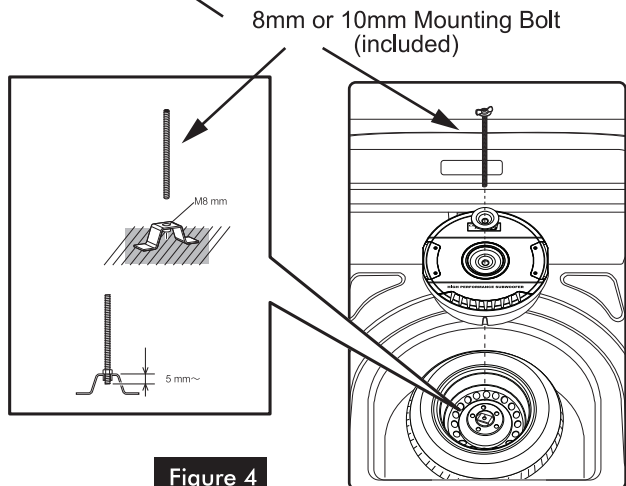


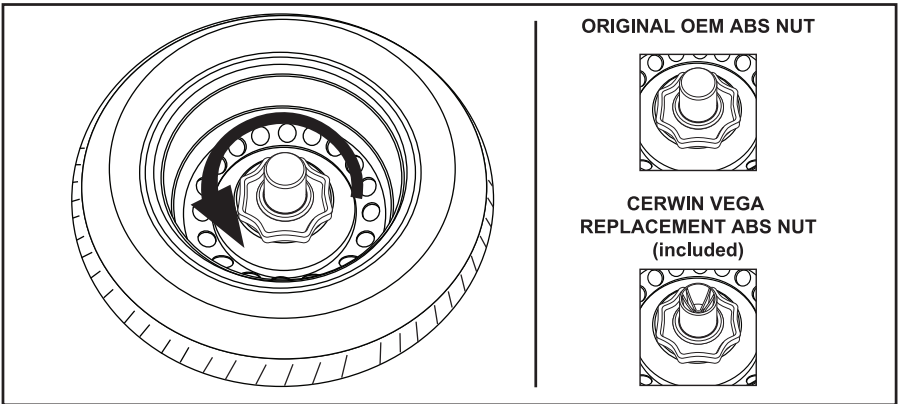
Figure 4

## SPARE TIRE WITH ABS NUT (AUDI/VW TYPICALLY)

### Using fix bolt and ABS Nut (supplied)

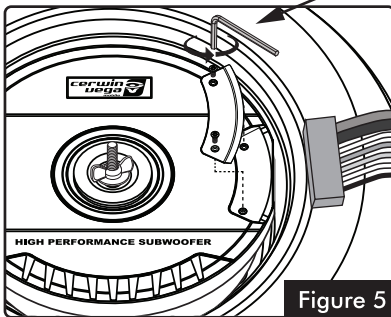
Some vehicles have a different type of spare tire mounting system as shown below. Where there is a large "NUT" and a bolt coming thru the center of the spare tire. IF so....

1. Thoroughly clean the spare tire
2. Replace the original spare ABS fixing the nut with the supplied one that came with the VPSTX12

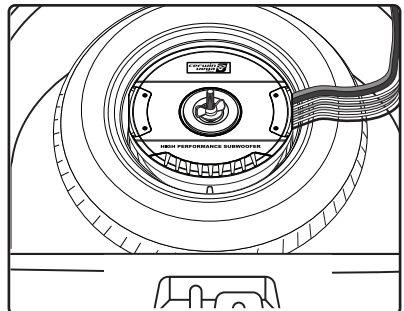


## CONNECTING WIRING HARNESS

M6 Allen Wrench (Included)



1. The VPSTX12 should be mounted into the spare tire area at this point.
2. Remove the M6 hex screws from the handle/port area as shown to the left (Figure 5) Insert Power/Input plug assembly. Make sure to push until it "clicks" into the locked position .



3. Once the Power/Input plug is securely plugged in, replace the handle/port cover with the same hex screws. Tie-wrap all wiring so it is clean and easy to remove the VPSTX12 subwoofer when the time arises.



## REMOTE CONTROL SETTINGS AND FUNCTIONS

### G. INPUT GAIN CONTROL

After you have installed your system, turn this GAIN control to minimum (counter-clockwise).

Turn the head unit on and adjust the head unit volume to a comfortable listening level.

Slowly turn up the subwoofer input gain control until you hear a small amount of distortion. Then reduce the level until the distortion is completely gone. Leave the control at this setting.

### H. BASS BOOST

The BASS BOOST feature will increase the sound level in the bass frequencies (below 45Hz).

### I. LOW PASS FILTER (LPF)

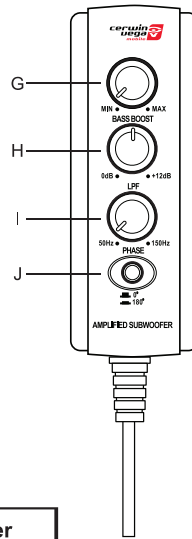
This control permits you to define the frequency range you want the subwoofer amplifier to receive. The subwoofer will reproduce all sound BELOW the frequency you set.

**Note: The low pass filter frequency can be higher or lower than the marked Frequency by as much as +/- 20% tolerance**

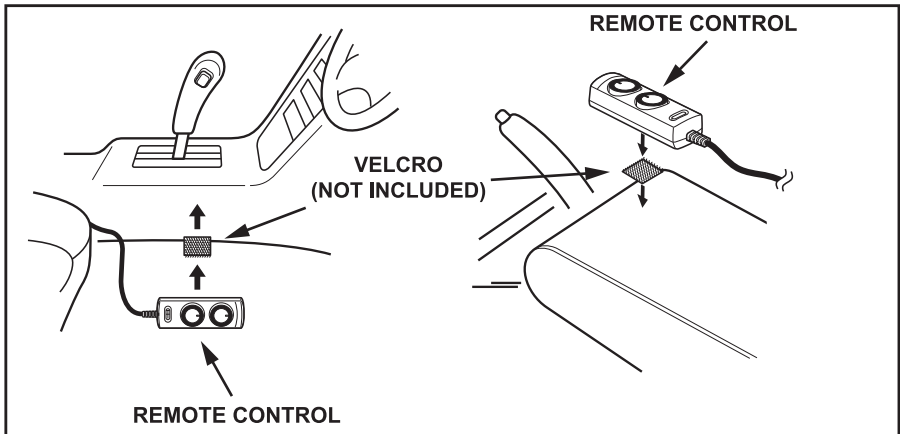
### J. PHASE SWITCH

Use this switch 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.

### REMOTE CONTROL



## CENTER CONSOLE - CAR INTERIOR



## TROUBLE SHOOTING

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 there is at least 12v on the battery (+) terminal</p> <p>Check that the Remote Input (Turn-On) has at least 10VDC.</p> <p>Check that the green power LED is lit</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 Power Cycle (reset).</p>
<b>Protection LED comes on when amplifier is powered up</b>	<p>Turn down the volume control on the head unit to prevent overdriving the input speaker leads,</p> <p>Try Power cycling (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 the power light LED on</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 input main harness is plugged in properly.</p>
<b>Low output.</b>	<p>Readjust the Input Gain Control.</p> <p>Check the Crossover Control settings, possibly try a higher frequency.</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>Reset Input Gain. It is best to set the subwoofers 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 subwoofer input level as low as possible.</p>
<b>Squealing noise is present.</b>	<p>Check for improperly grounded RCA interconnects. Or possible "blown" signal ground from head unit. (Some head units are notorious for this!)</p>
<b>Distorted sound.</b>	<p>Check that the Input Gain control is set to match the signal level of the head unit. Always try to set the Input Gain on the subwoofer as low possible. Input gain is NOT power output!!! Check that all crossover frequencies are properly set.</p>
<b>Amplifier gets very hot.</b>	<p>Readjust the Input Gain Control.</p> <p>Make sure to NOT use CCA power wire as it will cause this kind of issue (and voids warranty).</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

3761 S. Hill Street

Los Angeles, CA 90007 USA

Please Contact Customer Service for Further Warranty Information:

U.S.A.

Tel: 213-261-4161 / Direct Tech line 213-212-3187 / Fax: 213-947-4767



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

**WWW.CERWINVEGAMOBILE.COM**

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