cerwin vega mobile

8" ULTRA HIGH EFFICIENT MIDRANGE DRIVER

200W RMS • 400W PEAK POWER HANDLING

- Lightweight Aluminum Voice Coil Former
- 2" Copper Clad Aluminum Voice Coil
- Polypropylene Treated Hybrid Paper Curvilinear Cone
- Woven Cloth Ribbon Surround
- High Density Die Cast Aluminum Housing

OWNERS MANUAL

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Cerwin Vega Mobile Speakers

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

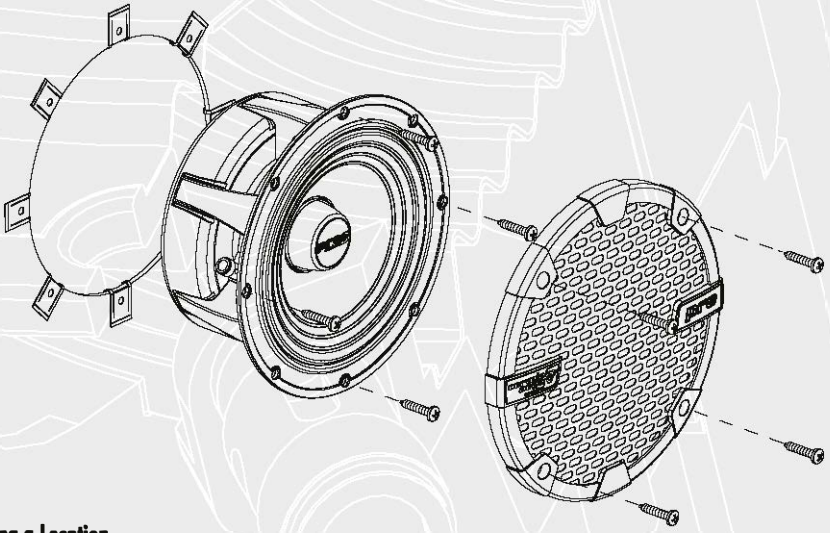
Cerwin Vega Mobile speakers were designed and engineered to reproduce great sound quality for many years of listening enjoyment in your vehicle! We highly recommend that your new speakers be installed by an authorized Cerwin Vega Mobile dealer. Your authorized dealer can professionally assemble/disassemble the interior of your vehicle and set the proper speaker placement for ideal sound quality.

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

Installation

Installing the Speakers

Your new Cerwin Vega Mobile series speakers were designed with the flexibility to be installed in multiple locations. However, to ensure the best performance possible, it is important to isolate the front sound waves of the speaker from its rear sound waves. This is done by securely mounting the speaker to a flat surface known as a baffle. Make sure to seal the speaker to ensure there are no air leaks around its frame.



Selecting a Location

If your vehicle has existing factory locations, the easiest method would be to replace them with the exact same size speaker. In the case where there is not a factory speaker location, there are many places where the speakers will fit in a vehicle, but they are not always the best locations for good sound. Make sure to take the time to select the best locations possible. Mounting the speakers so that they are equal distance from your ears will achieve the best results. If you experience any difficulties, please consult with your local authorized Cerwin-Vega Mobile dealer. They have the tools and know-how to help

Door Mounting (if not using factory locations)

Prior to cutting, remove the panel from the door and check for clearance in the in the intended installation area, making sure the window will go all the way up and down without any interference. Avoid cutting any structural metal support or braces to mount the speakers.

Rear Deck Mounting

There are two primary methods for mounting speakers in the rear deck of a vehicle, top and bottom mounting. Top mounting requires dropping the speakers in through the deck (interior) while bottom mounting secures the speakers from underneath (trunk). Either method requires a good seal around the frame for the best performance.

Running New Wiring

In most cases when mounting new speakers you will use the factory supplied wiring, but if new wires have to be run there are some precautions that need to be taken. If the wire needs to run through metal, such as a door jamb, always use a grommet to prevent damage to your wires. Never run wire through bare metal! This can damage the source unit, amp, or even the speakers themselves. Safety of the wiring against short circuits is THE MOST IMPORTANT INSTALLATION CONCERN.

Features

① O2-Cast Technology

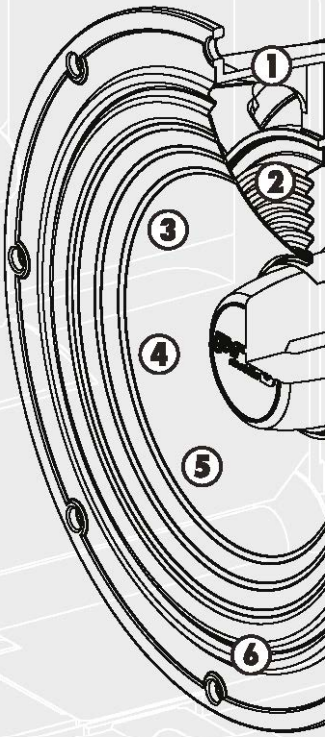
O2-Cast Technology finely tunes their aluminum die cast baskets microstructure. Oxides are formed in the mold and virtually eliminates gas porosity, cracks, and segregation. This process increases basket strength while lowering basket resonance. All this contributes to acoustics from the driver that is more defined and accurate.

② LRS - Linear Rolled Spider

A symmetrical over-under weave design and hybrid material blend provides the perfect mix of exceptional strength and reliability. With LRS, music sounds good at all volume settings and will remain controlled and very dynamic even at peak volume levels.

② CCD - Curvilinear Cone Design

Curvilinear shaped cones improve off-axis performance through their unique geometry. The sensitive inner-section of the cone features a severe angle design that aids in its off-axis performance. The outer edge is flat and more rigid reproducing louder mid-bass frequencies that radiates uniformly throughout the listening environment.



④ EMAR - Cone Design (Exponential Multi Annular Rib)

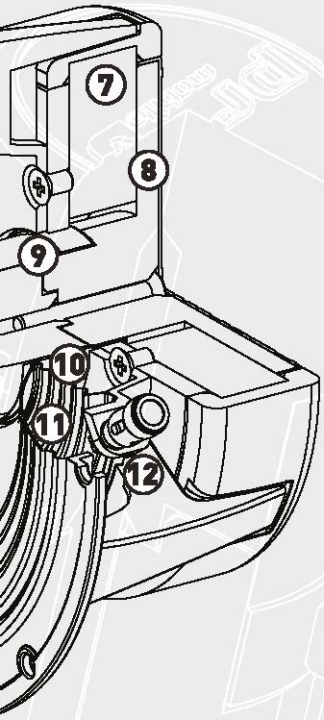
By exponentially increasing cone thickness and adding annular ribs to the outer edge of the cone, EMAR applied cone design stiffens the cone to decrease cone resonance in the upper frequency bandwidth. Complex and unwanted vibrations are greatly reduced at high volume levels resulting in exponentially more mid-bass.

⑤ HCC - Hybrid Cone Construction

HCC technology combines three types of unique fibers (Kapok, Block Spruce, and Unbleached Kraft) felted together under a specialized polypropylene coating to create a very exotic cone design. Unique traits engrained in these fibers such as tubular shaping for more cross-sectional thickness, superior rigidity, lightness, and lack of damaging chemical treatment ensures that this strong, ultra stiff hybrid cone emits a very natural sound without sacrificing efficiency.

⑥ TCRS - Treated Cloth Ribbon Surround

Our specially formulated cloth ribbon surround is created through a 50 year old process of weaving pure cotton in a plain weave mesh pattern, then saturated and sealed with phenolic and various other c ompounds. By incorporating a multi-ribbed design to TCRS, a desired resonant frequency that is perfect for reproducing extremely loud mid-bass is achieved.



⑦ HGM - High Grade Magnet

Not all magnets of equal size are equal in strength. High-grade (Y35), high-energy magnets provide a high resistance to demagnetization and are over 20% stronger per ounce than more common lower-grade (Y25 or Y20) magnets. By utilizing high-grade magnets, efficiency rises to extraordinary levels resulting in an astonishingly loud but yet controlled speaker.

⑧ FAY -Forged Alloy Yoke

One-piece cold forged 1008 alloy steel yokes initiate better magnetic transfer over a more common two-piece press fit design. Combine this with the reduced carbon content found in 1008-alloy steel, this feature allows for the greatest and strongest retention of magnetic fields generated by HGM.

⑨ CCAC - Copper Clad Aluminum Coil

Copper clad aluminum wire voice coils are very lightweight and have excellent heat dissipation/capacity characteristics. Copper is coated over an aluminum surface providing equal copper surface area at a fraction of the weight of solid copper wire. CCAC's provide maximum sensitivity and extends the high frequency response of speakers.

⑩ RAF - Rolled Aluminum Former

Rolled aluminum voice coil formers are known for its superior thermal capabilities. Its low mass and unrivalled thermal transfer characteristics make it the perfect voice coil former that maintains exceptional dynamic response yet prevents voice coil damage.

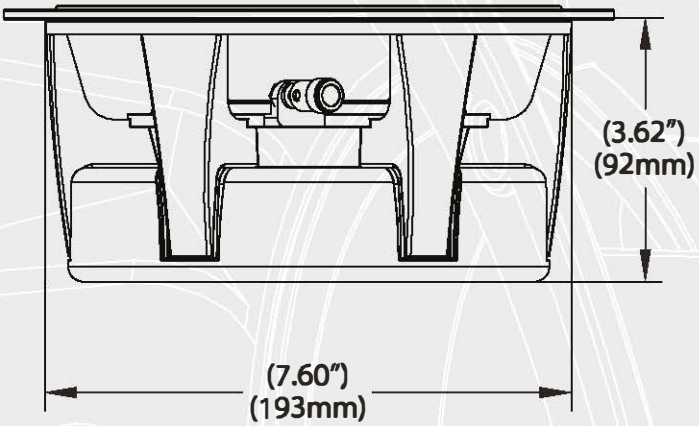
⑪ SWL - Symmetrical Woven Leads

Symmetrical woven ultra flexible braided tinsel leads move signal from the speaker terminals to the voice coil. A woven tinsel lead prevents kinetic failures at connection points and accidental shorting. Placement of the terminals and weaving the tinsel leads 180° apart provides even resistance on the voice coil/cone assembly. By providing an even resistance, the voice coil gap is reduced resulting in greater sensitivity while voice coil rub is prevented.

⑫ PPT - Pushpin Terminals

High quality nickel-plated and high-tension spring-loaded terminals offer an oxide free, low- resistance connection that will not cut off. Power from amplifiers will travel to a speakers voice coil and will never be lost over a weak connection even under the most severe conditions.

Specifications



Parameter	CVMP6.5
SPL (dB)	95
Re (ohms)	3.2
Qts	0.26
Qms	2.01
Qes	0.3
Fs (Hz)	80
Vas (l)	18.1
Cms (m/N)	218.29
Mms (g)	19.71
BL (T-m)	10.2
Magnet (g)	1220
VC Layers	2
VC Turns	57
VC Dia (")	2
Freq +/-3dB	100/5K
Pwr RMS/MAX	200/400
X-over (Hz)	N/A