

**cerwin**  
**vega**  
*mobile*



***PRO***  
***mobile***



**P1SRT/P1SWT**

**P75T/P175T**

**P1T**

**USER MANUAL**



Congratulations, you have just purchased one of the finest mobile audio products on the market. Cerwin Vega products represent the latest advances in acoustic technology in sound reproduction for your vehicle. Cerwin Vega products are designed, developed, and engineered in the USA using the latest innovative materials and components to provide the finest sound reproduction possible. Every Cerwin Vega product has been verified and tested to ensure the best sounding and most reliable product on the market, if installed properly. Cerwin Vega products will provide many years of the ultimate listening experience.

Cerwin Vega recommends our products be professionally installed by an authorized Cerwin Vega dealer to achieve the best possible system recommendation and installation. This will ensure a true Cerwin Vega listening experience and sound you would expect from Cerwin Vega products. With proper validation use a Cerwin Vega Retailer for installation of your newly purchased amplifier. Cerwin Vega will extend the product warranty from one year to Two Years!!

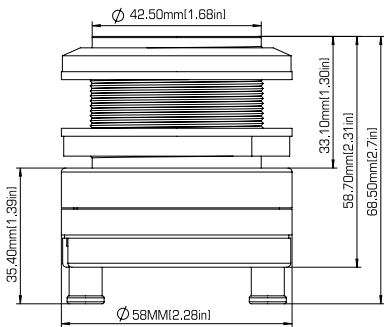
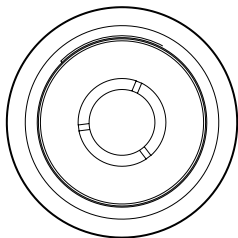
## **P1SRT/P1SWT/P1T/P75T/P175T (Pairs)**

\* What comes in the box\*

- Pair of Pro Audio High Frequency drivers
- 12 dB Passive Crossover Included
- P1T,P1SRT and P175T comes with 1 Mounting Ring included: Black
- 2 Rubber "Shock Absorber" Mounting Gaskets

# Features/Specs

The next generation of Cerwin Vega Pro Audio High Frequency drivers features and specifications are on the next few pages. Makes sure to read this manual and get to know your drivers and the many applications and set up scenarios available to you. The P1T and P1SRT have threaded horn bodies and come with 3 mounting bezels that thread on. Be careful to not strip them.



## P1T

- 1" Pro Audio High Frequency drivers
- 50W/\*100W MAX RMS Power Handling
- 107dB Sensitivity
- Composite Rubber Mounting Frame
- 12dB Crossover included for maximum protection
- Bullet Phase Plug for Better Response
- Re-buildable Diaphragm Replacement Design (part# CVMPL1.0STD)

\*\*Hi-pass filtered @ 100 Hz - 12 dB Oct

### SPECIFICATIONS:

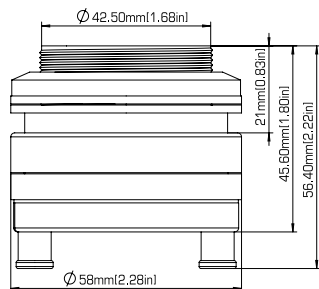
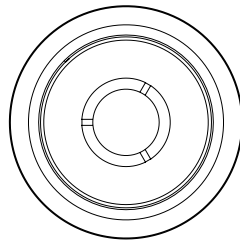
Sensitivity :	107 dB 1W/1M
Frequency Response :	3K-20KHZ
Nominal Impedance :	4 ohm
Cut-out Diameter :	1.75"/44.45mm
Front of Horn to Magnet Depth:	1.3"/33.1mm
Depth Front to Back Magnet:	2.3"/58.7mm
Over-All Diameter :	2.28"/57.9mm
Over-All Depth :	2.7"/68.50mm

## P1SRT

- 1" Compression Extreme Output Tweeter - Short Horn Version
- 50W/\*100W MAX RMS Power Handling
- 107dB Sensitivity
- Composite Rubber Mounting Frame
- 12dB Crossover included for maximum protection
- Bullet Phase Plug for Better Response
- Re-buildable Diaphragm Replacement Design (part# CVMPL1.0STD)

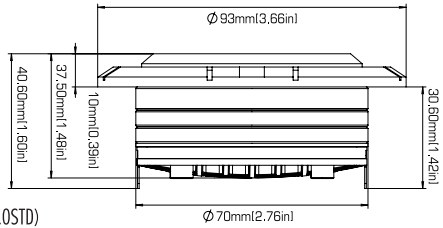
### SPECIFICATIONS:

Sensitivity :	107 dB 1W/1M
Frequency Response :	3K-20KHZ
Nominal Impedance :	4 ohm
Cut-out Diameter :	1.75"/44.45mm
Front of Horn to Magnet Depth:	0.83"/21mm
Depth Front to Back Magnet:	2.3"/58.7mm
Over-All Diameter :	2.28"/58mm
Over-All Depth :	2.22"/56.40mm



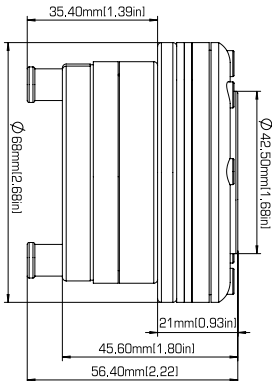
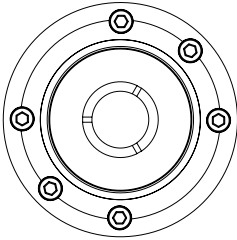
## P75T

- 1" Compression Extreme Output Tweeter - Short Horn Version
- 50W/\*150W MAX RMS Power Handling
- 106dB Sensitivity
- Composite Rubber Mounting Frame
- 12dB Crossover included for maximum protection
- Bullet Phase Plug for Better Response
- Re-buildable Diaphragm Replacement Design (part# CVMPL1.0STD)



### SPECIFICATIONS:

Sensitivity :	106 dB 1W/1M
Frequency Response :	1.5K-20KHZ
Nominal Impedance :	8 ohm
Cut-out Diameter :	2.8"/71.12mm
Front of Horn to Magnet Depth :	0.39"/10mm
Depth Front to Back Magnet :	1.38"/35mm
Over-All Diameter :	3.66"/93mm
Over-All Depth :	1.60"/40.60mm



## P1SWT

- 1" Compression Extreme Output Tweeter
- 50W/\*100W MAX RMS Power Handling
- 106dB Sensitivity
- Composite Rubber Mounting Frame
- 12dB Crossover included for maximum protection
- Bullet Phase Plug for Better Response
- Re-buildable Diaphragm Replacement Design (part# CVMPL1.0STD)

\*\*Hi-pass filtered @ 100 Hz - 12 dB Oct

### SPECIFICATIONS:

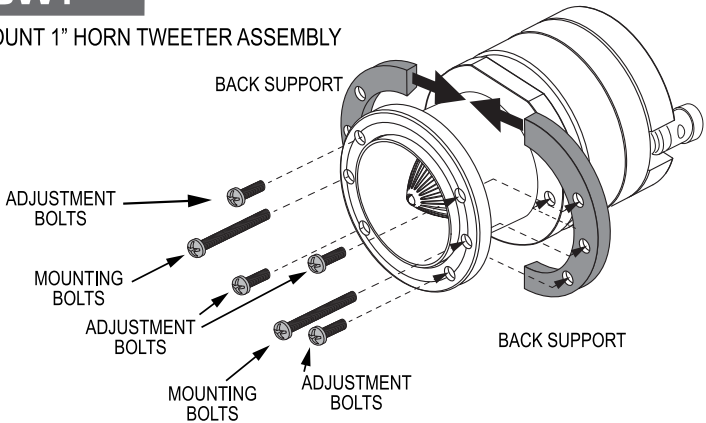
Sensitivity :	107 dB 1W/1M
Frequency Response :	2K-20KHZ
Nominal Impedance :	8 ohm
Front of Horn to Magnet Depth :	0.93"/23.6mm
Depth Front to Back Magnet :	2.3"/58.7mm
Cut-out Diameter :	1.91"/48.5mm
Over-All Diameter :	2.68"/68mm
Over-All Depth :	2.22"/56.40mm

# Set-up

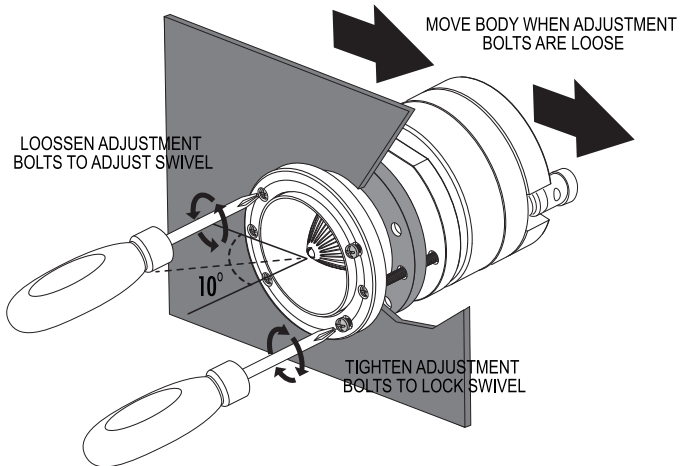
The next generation of Cerwin Vega Pro Audio High Frequency drivers adds an exciting twist (swivel) to the NEW line of horn tweeters. Below is how to disassemble and reassemble the tweeter. Its different than our P1T tweeter in that it does NOT have threaded mounting rings. And MUST be mounted with 6 holes in whatever sub structure you are mounting it to. A much more solid mount, but more thought has to be in the setup. The advantage is the tweeter can be swiveled slightly into the direction of the driver. Giving better "on-axis" listening response.

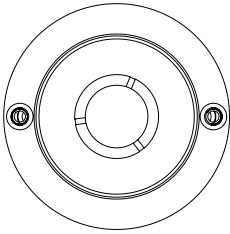
## P1SWT

### SWIVEL MOUNT 1" HORN TWEETER ASSEMBLY



### MOUNTING THE SWIVEL MOUNT HORN TWEETER - AND ADJUSTMENT





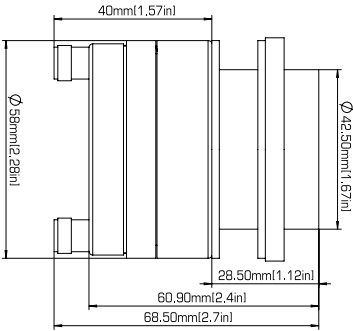
## P175T

- 1" Compression Extreme Output Tweeter
- 50W/\*100W MAX RMS Power Handling
- 106dB Sensitivity
- Composite Rubber Mounting Frame
- 12dB Crossover included for maximum protection
- Bullet Phase Plug for Better Response
- Re-buildable Diaphragm Replacement Design (part# CVMPL1.0STD)

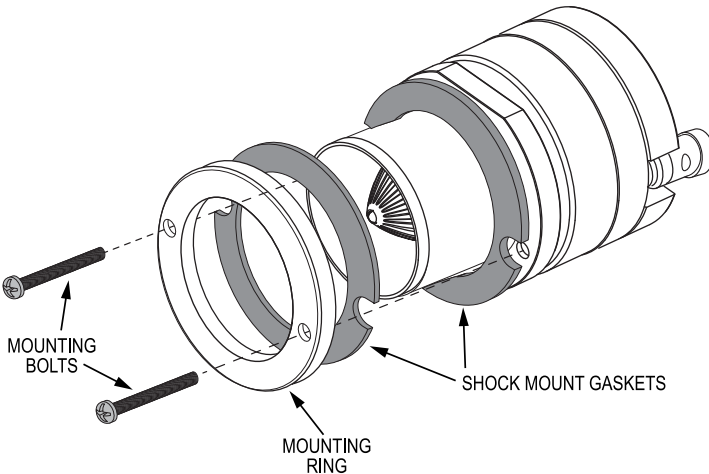
\*\*Hi-pass filtered @ 100 Hz - 12 dB Oct

### SPECIFICATIONS:

Sensitivity :	107dB 1W/1M
Frequency Response :	3K-20K HZ
Nominal Impedance :	4 ohm
Front of Horn to Magnet Depth:	1.12"/28.5mm
Depth Front to Back Magnet:	2.4"/69mm
Cut-out Diameter :	1.70"/43.18mm
Over-All Diameter :	2.28"/58mm
Over-All Depth :	2.7"/68.50mm



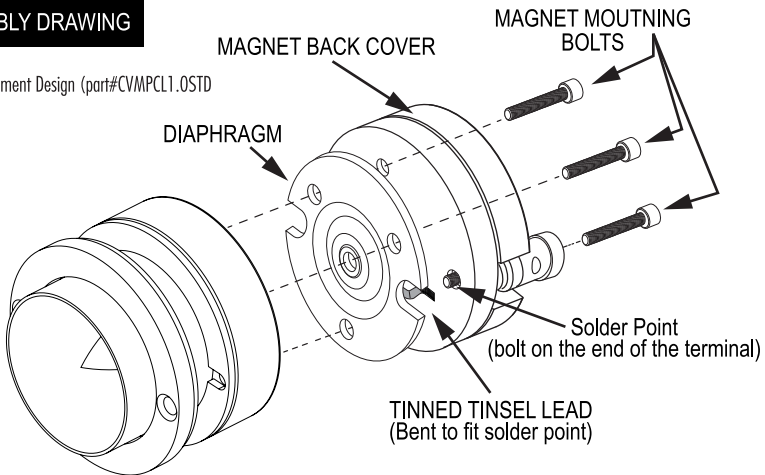
### MOUNTING THE P175T HORN TWEETER - WITH BOLTS



# Installation

## TWEETER/DIAPHRAGM DIS-ASSEMBLY DRAWING

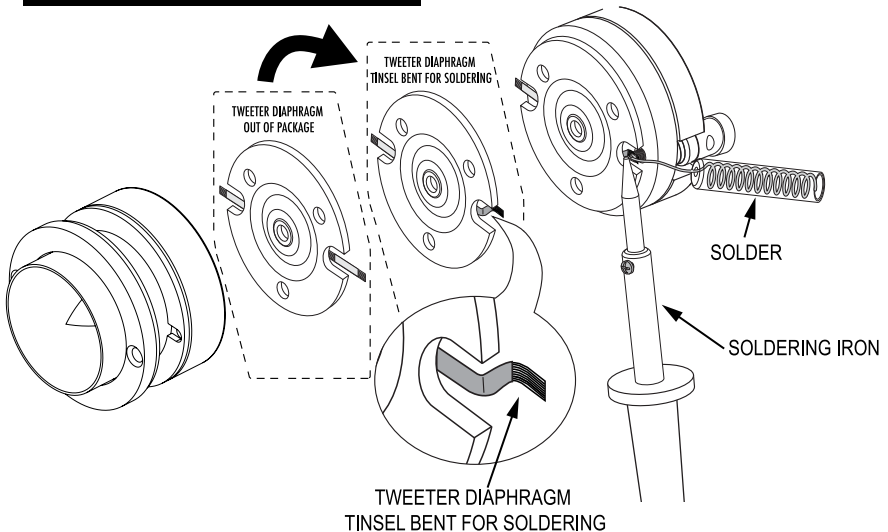
Replacement Design (part#CVMPCL1.OSTD)



**Replacement  
Tweeter Diaphragms**  
**CVMPCL1.OSTD**

• CVMPCL1STD - 1" REPLACEMENT TWEETER DIAPHRAGM

## TWEETER/DIAPHRAGM SOLDERING - RE-ASSEMBLY DRAWING



All PRO Horn Tweeters comes with a special 12dB per octave crossover. It is HIGHLY recommended that this be used at ALL times - UNLESS you are using an active crossover set at above 5kHz. This system, shown is "Bi-Amped, but not 'Fully' active. Front channels of this 4 channel amplifier are driving the mid bass drivers. Rear channel are driving the tweeters. The mid bass is shown with a 0.1mH inductor in series to cross over the midbass at 6Khz with a 6dB roll-off. This setup makes it easier to adjust level of this midbass versus the tweeter.

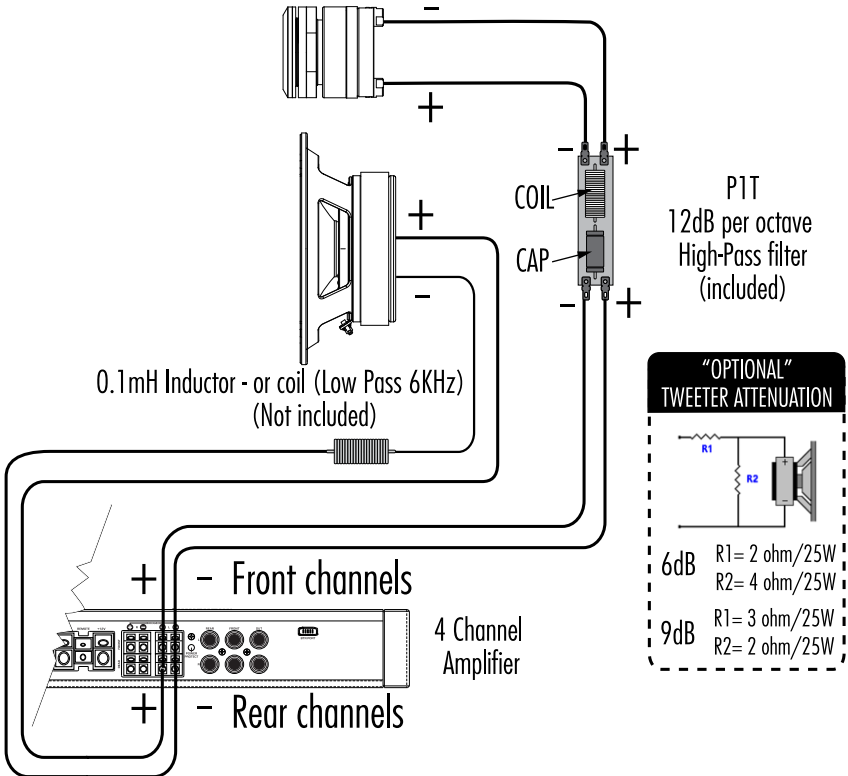
## TYPICAL "BI-AMPED" SYSTEM USING PASSIVE CROSSOVERS

### \* \* SPECIAL NOTE \* \*

Tweeter connected "out-of-phase" to be acoustically "in-Phase"

### \* \* SUPER SPECIAL NOTE \* \*

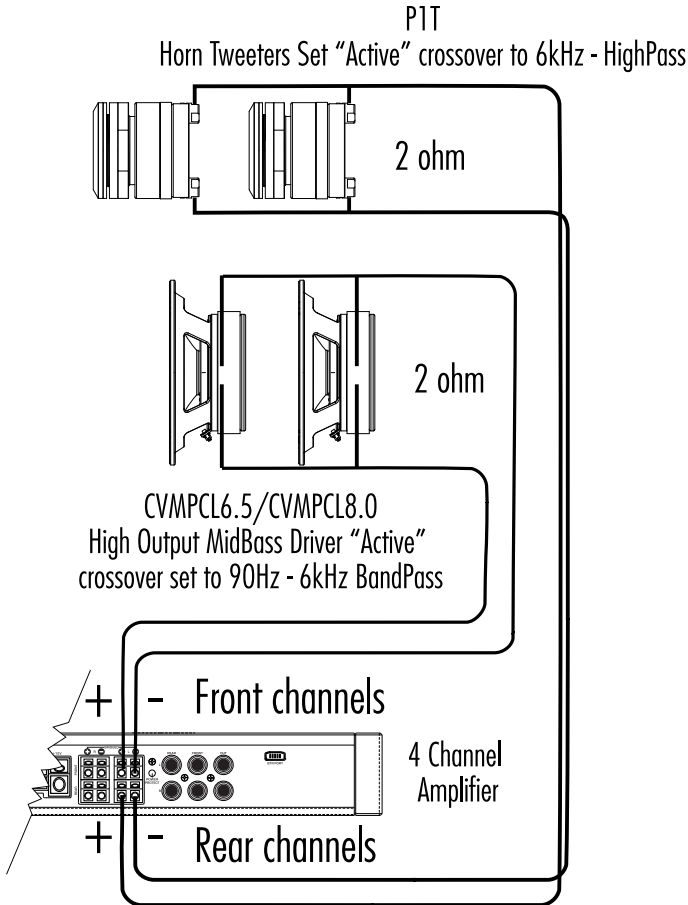
**Make sure to connect the cap side of crossover to the amplifier!!!**





# Features/Specs

The PRO series horn tweeters and Midbass drivers can be run in multiple pairs. It is HIGHLY recommended to use some kind of EQ/processor. IF you plan on doing ALL active setup seriously think about purchasing a DSP processor. Using a DSP processor makes it much easier to control and tune your system. Think about using the Diamond Audio DSP processor - BTDSP-46. Small 4 in 6 out DSP processor, simple to use. Controlled and setup by your SmartPhone



(ONLY RIGHT CHANNEL SHOWN)

# Installation

## Installing the Speakers

Your new Cerwin Vega 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

Since these are "Pro Drivers" we know the likelihood of mounting in stock locations is pretty non-existent. This means basic audio concepts should be thought of when installing. If installing multiple midbass or tweeter drivers it is ALWAYS best to mount in vertical rows. This gives the best vertical and horizontal dispersion characteristics of the drivers. Venting (or porting) is not necessary. Multiple midbass drivers should be used to every single horn driver (horn tweeters tend to be 10dB louder than the mids).

We HIGHLY recommend that for the BEST sound you put a sound deadening mat on the door "skin",  
The more "damped" your car is.... the better it will ultimately sound!!!

Dimension	Unit	P1T	P1SRT	P1SWT	P75T	P175T
Overall Diameter (A)	in. (mm)	2.28 (57.9)	2.28 (58)	2.28 (58)	3.66 (93)	2.28 (58)
Cut Out Diameter (B)	in. (mm)	1.75 (44.45)	1.75 (44.45)	1.91 (48.51)	2.8 (71.12)	1.70" (43.18)
Overall Depth (C)	in. (mm)	2.7 (69)	2.22 (56.4)	2.22(56.40)	1.60 (40.60)	2.7 (68.50)
Depth Front to Back Magnet (D)	in. (mm)	2.3 (58.7)	2.38 (60.55)	2.3(58.7)	1.38(35)	2.38 (60.55)
Front of Horn to Magnet Depth (E)	in. (mm)	1.3(33.1)	0.83(21mm)	0.93(23.6)	1.57(38.8)	1.12(28.5)

