POWERONE

CRUNCH

CRUNCH

POWERONE SERIES CAR AUDIO SUBWOOFERS

Congratulations on your purchase of the new Crunch PowerOne subwoofer system. The PowerOne subwoofer series are a bargain with good build quality and accurate bass reproduction.

- 12-Inch DVC Subwoofer
- Dual 2-Ohm and Dual 4-Ohm Voice Coils
- High Energy Magnet With ABS Motor Cap
- Paper Cone
- Ultra Rigid Stamped Steel Basket
- Multi-Layer High-Temp VC
- Front-Plate & Voice-Coil Cooling
- Stitched And Glued Bond For Surround To Cone
- Foam Surround

As with all high quality car audio products, we recommend professional installation by an authorised Autotek dealer. Your dealers knowledge and experience can ensure a problem free and cosmetically integrated installation. If you choose to install the subwoofers yourself, please read the entire manual very carefully.

For product videos and great tutorials, check out www.youtube.com/maxxsonicsusainc

SUBWOOFER INSTALLATION AND WIRING DIRECTIONS

Enclosure Materials

Typically, 5/8" or 3/4" MDF (Medium Density Fiber Board) is best for most applications. 3/4" MDF is recommended.

Enclosure Build Materials

Connecting joints need to be glued and screwed to ensure no air escapes and joints do not separate under high pressure. Mitered and rabbit joints also help to ensure the enclosure joints are secure.

Bracing

Internal bracing is also recommended to prevent flexing and to strengthen the enclosure.

Note: The volume taken up by the bracing should be added to the total enclosure interior volume.

There are two common bracing methods.

1. Corner Bracing: These help prevent the connection joints from separating under heavy vibration and air pressure.

Use 1' x 1" MDF at all interior joints

2. Diagonal Bracing: These internal braces connect the top side to the bottom side as well front side to back side. This prevents the wood from bowing or pushing outwards.

Use 1" x 2" with 1" surface contact that is glued and screwed.

Wiring

Wiring Parallel, Series or Parallel/Series will affect the final impedance at the amp and great care must taken to ensure the amp is not driven below it's intended impedance capabilities.

| CRUNCH POWERONE SERIES SUBWOOFERS | | | |
|---|----------------------|-----------------------------|------------|
| Parameters | P1-12D2 | P1-12D4 | |
| Wiring | Series | Series | Coils |
| NomZ | 4.38 | 8.688 | Ohm |
| Sd | 0.051 | 0.051 | sqM |
| Revc | 3.65 | 7.24 | Ohm |
| BL | 8.264 | 10.47 | TxM |
| Vas | 122.2 | 124.9 | Liter |
| Cms | 329.8 | 337.3 | uM/N |
| Mms | 87.21 | 75.93 | Grams |
| Fs | 29.71 | 31.45 | Hz |
| Qms | 5.57 | 6.714 | |
| Qes | 0.87 | 0.991 | |
| Qts | 0.75 | 0.863 | |
| no | 0.355 | 0.379 | % |
| SPL@1W | 87.52 | 87.8 | dB |
| Xmax | 10.25 | 10.25 | mm |
| Rms | 350 | 350 | Watts |
| Maxx | 700 | 700 | Watts |
| | LOSED BOX DESIGNS | 2.7.7 | Trucco |
| Standard Tight Bass | ECOLD BOX BEGIOITO | (OLALLD) | |
| Box Volume | 1.5 | 1.5 | Cubic Feet |
| Qtc | 1.4 | 1.61 | Cubic rect |
| F3 | 42 | 44 | Hz |
| Optimal Sound Quality-Flat Respor | 1d 0070000 | | 1.14 |
| Box Volume | 2 | 2 | Cubic Feet |
| Qtc | 1.26 | 1.45 | Cubic reet |
| F3 | 38 | 40 | Hz |
| (2)(7) | TED BOX DESIGNS (RO | (II) NESSEE N | 136 |
| Standard Tight Bass | TED BOX DEGIGING (IK | JONE FORT | |
| Box Volume | 2 | 2 | Cubic Feet |
| Fb | 40 | 41 | Hz |
| Port Size (inside diameter) | 3 | 3 | Inches |
| Port Length | 3.8 | 3.5 | Inches |
| F3 | 39 | 41 | Hz |
| Optimal Sound Quality-Flat Respor | 7.70 | 22.40 | |
| Box Volume | 2.5 | 2.5 | Cubic Feet |
| Fb | 39 | 40 | Hz |
| Port Size (inside diameter) | 4 | 4 | Inches |
| Port Length | 6.2 | 5.7 | Inches |
| F3 | 36 | 38 | Hz |
| FEATURES ARE SUBJECT TO CH. | | 343 722240 | 1.6 |
| NOTE: All above box volumes are internal value | | | |
| The F3 value represents the -3db cut off of the | | a una port aispiaceilleilt. | |
| The above designs use .75" MDF. | OHOIOGAI G III IIZ. | | |
| THE GROVE RESIGNS USE (13 MIDE) | | | |

Glossary of Terms

Q The energy losses of relative damping (ratio of stored to dissipated energy or ratio of reactive to resistive energy).

Fs Free air resonance of driver in Hz.

Qms Mechanical Q.

Vas Volume of air equivalent to driver from the rest position.

Cms Mechanical compliance of a loud speaker piston.

Mms Moving mass of total loud speaker piston assembly.

Xmax The maximum linear excursion of a loud speaker.

Sd Surface area of the cone.

Dia The piston diameter of a loud speaker.

Qes Electrical Q of a system.

Re DC resistance.

Le VC inductance.

Pe Maximum input power.

Qts Total Q of the system.

Sens Sensitivity. An efficiency measurement in dB's.

Vc Volume of a closed or sealed enclosure

Vb Volume of a vented enclosure.

Fc The resonant frequency of a closed or sealed system

Fb The resonant frequency of a vented system

F3 The half-power (-3dB) frequency of a loud speaker enclosure

Qtc The Q of a loud speaker at Fc in a closed box, considering both it's electrical and mechanical resistance.

QL The Q of a vented box, resulting from all box losses.

DV Diameter of vent.

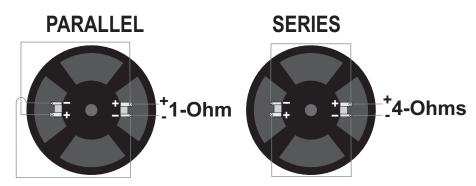
LV Length of vent.

H Height.

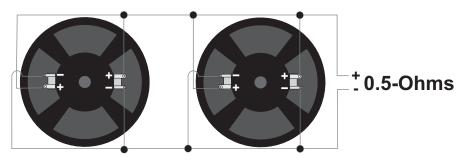
W Width.

D Depth

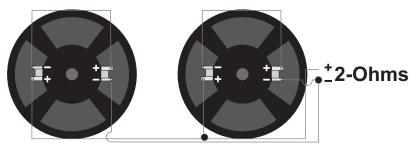
P1-12D2 DVC 2-Ohms



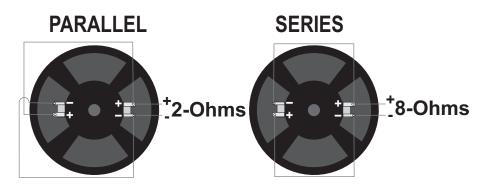
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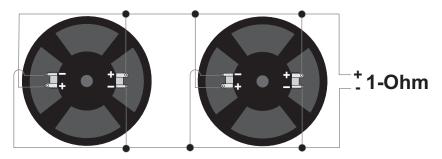
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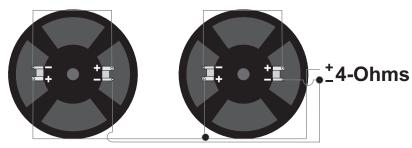
P1-12D4 DVC 4-Ohms



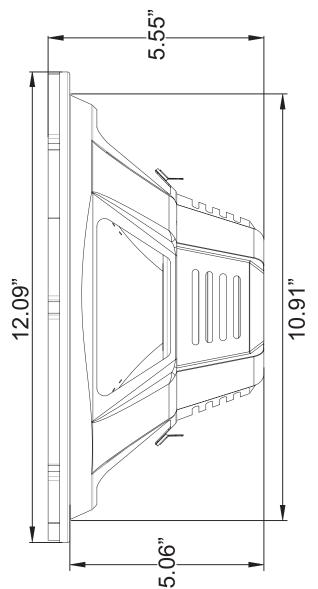
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SERIES COILS / PARALLEL SUBS



SUBWOOFER DIMENSIONS



When designing an enclosure for this subwoofer, please ensure to leave atleast 2" of clearance from the back of the motor to the back of the enclosure.

Maxxsonics Limited Warranty

As the manufacturer of Maxxsonics, MB Quart, Autotek, Crunch and Hifonics car audio products, Maxxsonics USA Inc. Warrants to the original consumer purchaser the amplifier to be free from defects in material and workmanship for one (1) Year from date of purchase.

All other parts and accessories of the system are warrantied to be free from defects in material and workmanship for one (1) year from date of purchase. Maxxsonics will repair or replace at it's option and free of charge during the warranty period, any system component that proves defective in materials and workmanship under normal installation, use and service provided that the product is returned to the authorized Maxxsonics dealer from where it was purchased. A photo copy of the original receipt must accompany the product being returned.

Valid purchase receipts will contain the name and address of the authorized reseller.

Any damage to the product as a result of misuse, abuse, accident, incorrect wiring, improper installation, alteration of date code or bar code labels, revolution, natural disaster, or any sneaky stuff because someone messed up, repair or alteration out side of our factory or authorized service centers and any thing else you have done that you should not have done is not covered.

This warranty is limited to defective parts and specifically excludes any incidental or consequential damages connected therewith. This warranty is not to be construed as an insurance policy.

Warranty on installation labor, removal, re-installation and freight charges are not the responsibility of Maxxsonics USA Inc.

Warranty products damaged as a result of insufficient or improper packing materials are not covered by this limited warranty and such damaged product will be returned "as is" at the expense of the owner.





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