

# MT OLYMPUS SUBWOOFERS

OLM800D2 / OLM800D4

# H I F OLYMPUS SERIES CAR AUDIO SUBWOOFERS

Congratulations on your purchase of the new Hifonics MT OLYMPUS Series High Power subwoofer system. The MT OLYMPUS subwoofer series offer superior sonic accuracy, intense high power sound quality with exotic build materials and outstanding good looks. These subwoofers are ideal for high power listening levels.

## OLM800D2 / OLM800D4:

- One-Piece Pressed Paper Cone/Dustcap
- High Roll Santoprene Rubber Surround
- Reinforced Cone-Neck Joint
- Optimally Spaced Dual Spider Design
- Ultra Ridged Aluminum Die Cast Basket w/Polished Grey Finish
- Nickel Plated Push & Insert Speaker Terminals
- 2.5" High-Temp Voice Coil on an Aluminum Former
- 85oz High Energy Magnet
- Heat Dispersing Ported Back Plate

As with all high quality car audio products, we recommend professional installation by an authorised Hifonics 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.

## Check out our videos of new products, events and technical tutorials at 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.

## <u>Wiring</u>

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.

OLM800D2 Series 4.56 0.0452 3.8 17.27 35.72 122.91 242.73 29.14 8.404 0.566 0.53 0.1506 83.8 87.03 15	OLM800D4 Series 8.64 0.0452 7.2 22.04 40.95 140.9 205.83 29.55 7.177 0.566 0.525 0.18 84.6 25.42	Ohm sqM Ohm TxM Liters uM/N Grams Hz Hz % dB		
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## **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

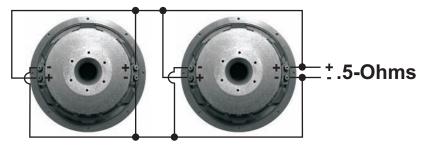
## OLM800D2 DVC 2-Ohms

PARALLEL

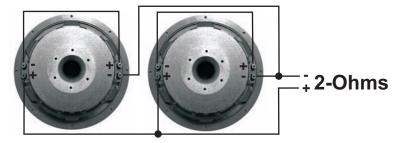
#### **SERIES**



### PARALLEL COILS / PARALLEL SUBS



## SERIES COILS / PARALLEL SUBS



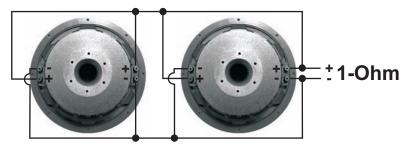
### OLM800D4 DVC 4-Ohms

PARALLEL

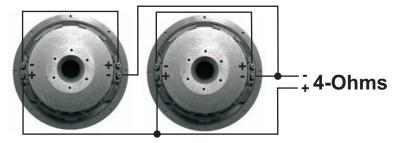
#### **SERIES**



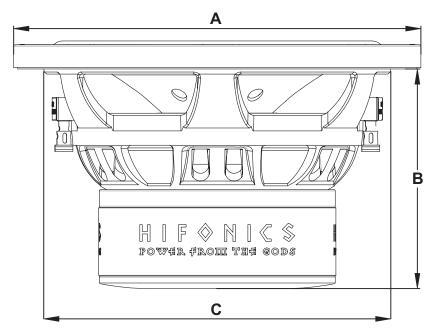
## PARALLEL COILS / PARALLEL SUBS



## SERIES COILS / PARALLEL SUBS



## **MT Olympus Series Subwoofer Dimensions**



MODEL	A Outside Diameter	B Mounting Depth	C Cutout Diameter
OLM800D2	12.64"	6.03"	10.77"
OLM800D4	12.64"	6.03"	10.77"

NOTE: There must be atleast 2" of clearance from the back of the subwoofer to the enclousre.

## Maxxsonics Limited Warranty

As the manufacturer of Maxxsonics, MB Quart, Autotek, Crunch and Hifonics car audi 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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