MBQUART

PREMIUM PWM304

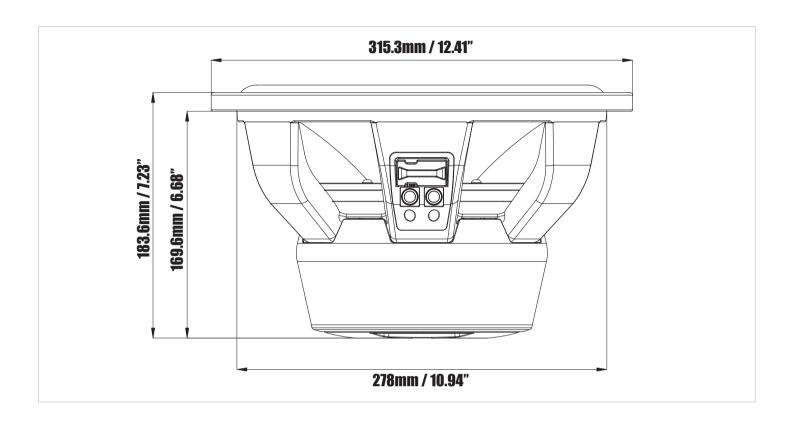
Thank you for choosing the MB Quart PREMIUM subwoofer for your car audio sound system. With proper installation, you are on the path to experiencing your music in a way you only imagined possible. Here at MB Quart, we call this "Sound In Every Detail."

The PREMIUM series subwoofers have been designed for the audiophile looking for tonal balance and incredible output from their woofer. The PREMIUM series subwoofers feature the following:

- Carbon Fiber Cone & Dustcap
- UV Resistant Butyl Rubber Surround
- 2.5" High Temp Voice Coil
- Red Nomex Spider

- Quick Change Impedance Terminal
- Deep Drawn Stamp Steel Basket
- Heat-Dispersing Vented Pole Plate
- Anti-Resonant Magnet Cover

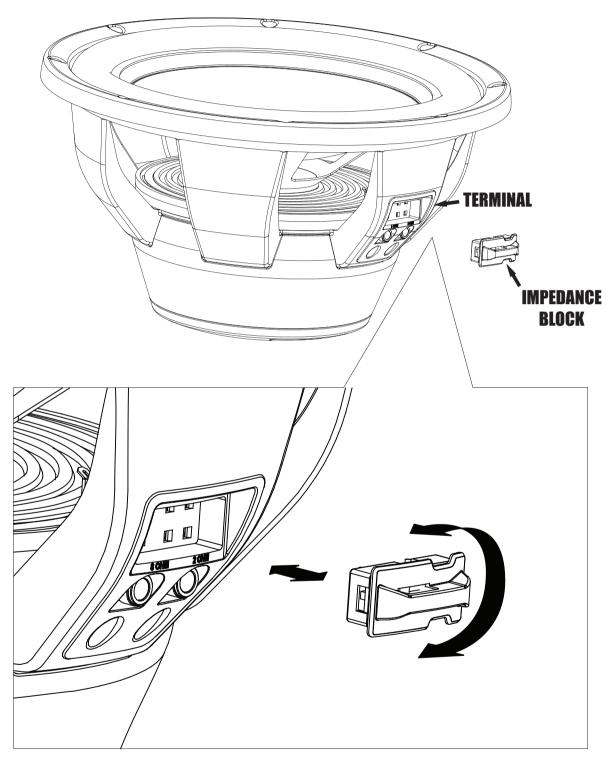




TECHNICAL DATA		TECHNISCHE DATEN		CARACTÉRISTIQUES TECHNIQUES	
Power Rating: Impedance: Sensitivity: Frequency Response:	500-1000 W DVC 4 ohms 84 dB (1W/1m) 30-250 Hz	Belastbarkeit: Impedanz: Empfindlichkeit: Übertragungsbereich:	500-1000 W DVC 4 ohms 84 dB (1W/1m) 30-250 Hz	Puissance: Impédance: Rendement: Bande passante:	500-1000 W DVC 4 ohmios 84 dB (1W/1m) 30-250 Hz
<u>COMPRISING:</u>		BESTÜCKUNG:		EQUIPEMENT:	
1 woofer	30.48 cm / 12"	1 woofer	30.48 cm / 12"	1 woofer	30.48 cm / 12"
		DATI TECNICI		Технические Данные	
DATOS TÉCNICOS		DATI TECNICI		Технические Данн	ые
DATOS TÉCNICOS Carga admisible:	500-1000 W	DATI TECNICI Potenza:	500-1000 W	Технические Данні Нагрузочная способность:	Ы С 500-1000 Вт
Carga admisible: Impedancia:	500-1000 W DVC 4 ohmios		500-1000 W DVC 4 ohmios		500-1000 Вт DVC 4 ом
Carga admisible: Impedancia: Potencia de servicio:	DVC 4 ohmios 84 dB (1W/1m)	Potenza: Impedenza: Sensibilità:	DVC 4 ohmios 84 dB (1W/1m)	Нагрузочная способность:	500-1000 Вт
Carga admisible: Impedancia:	DVC 4 ohmios	Potenza: Impedenza:	DVC 4 ohmios	Нагрузочная способность: Импеданс:	500-1000 Вт DVC 4 ом
Carga admisible: Impedancia: Potencia de servicio:	DVC 4 ohmios 84 dB (1W/1m)	Potenza: Impedenza: Sensibilità:	DVC 4 ohmios 84 dB (1W/1m)	Нагрузочная способность: Импеданс: Рабочая мощность:	500-1000 Вт DVC 4 ом 84 дБ (1Вт/1м)

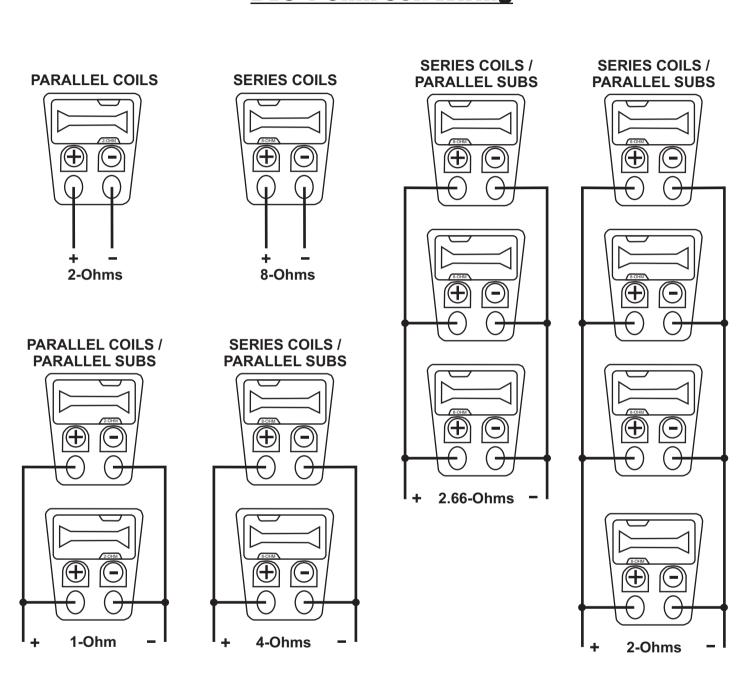
Subject to technical changes · Technische Änderungen vorbehalten · Sous réserve de modifications techniques · Ci si riservano modifiche tecniche Reservados los cambios técnicos · Производитель оставит за собой право на технические изменения

OUICK CHANGE IMPEDANCE FEATURE



The 4-Ohm dual voice coils are wired in Series when the block is inserted with 8-Ohm showing and in Parallel when 2-Ohm is showing on the Terminal label. As shown in the diagram above, changing the configuration is quick and easy. Firmly grasp the lip of the block and pull from the terminal. Rotate 180 degrees and re-insert. Please review page 4 for detailed wiring configurations.

DVC 4-0hm Coil Wiring



PREMIUM SI	ERIES SUBWOOF	ERS
ELECTRICAL	PWM304	
WIRING	SERIES	
NomZ	8.64	Ohm
Sd	0.0513	sqM
Revc	7.2	Ohm
BL	18.73	TxM
Vas	59.911	Liters
Cms	161.8	uM/N
Mms	212.1	Grams
Fo	27.25	Hz
Qms	3.252	
Qes	0.746	
Qts	0.606	
no	0.157	%
SPL@1W	84	dB
SPL@2.83W	84.55	dB
Xmax/Over Hang	14.5	mm
Xmech/Suspension	35.5	mm
RMS	500	Watts
PEAK	1000	Watts
	OX DESIGNS (SEALED Tight Bass-Small Box)
Box Volume	1.25	Cubic Feet
Qtc	0.968	
F3	36	Hz
VENTED BOX	DESIGNS (ROUND PO	RT)
Standard	Tight Bass-Small Box	
Box Volume	1.5	Cubic Feet
Fb	45	Hz
Round Port Size	4	Inches
Port Length	9.5	Inches
F3	36	Hz
Optimal Sou	nd Quality-Flat Respon	se
Box Volume	2.5	Cubic Feet
Fb	43	Hz
Slot Port Size (Inches)	12.5 x 2.5	Inches
Port Length (Inches)	28	Inches
F3	34	Hz
	JECT TO CHANGE WITHOUT	
NOTE: All above box volumes are internal volume listed represen	alues and already include sub its the volume of an empty bo:	
The F3 value represents the -3d		

SUBWOOFER INSTALLATION 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.

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.

Oms Mechanical O.

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

MBQUART

MAXXSONICS USA, INC 1290 Ensell Road Lake Zurich, Illinois 60047 USA E-Mail: info@maxxsonics.com Website: www.maxxsonics.com



Maxxsonics Limited Warranty

As the manufacturer of Maxxsonics, Autotek, Crunch, MB Quart 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.