

MEAN MACHINE SUBWOOFERS

MW10D2/MW10D4/MW12D2/MW12D4

MW15D2/MW125QD4

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MEAN MACHINE SERIES SUBWOOFERS

Congratulations on your purchase of the new Autotek Mean Machine Series High Power subwoofer system. The MW series subwoofers offer superior sonic accuracy, high power handling, great sound quality with exotic build materials and outstanding good looks.

- 2.5" 2-Ohm & 4-Ohm High-Temp Dual Voice Coils on most models
- 1" NBR Reinforced and Stitched Rubber Surround
- 100oz Double-Stack Magnet Assembly
- Single Flat Nomex Spider With Woven Tinsel Leads
- Polypropylene Cone With Woven Honeycomb Support Body
- Nickel Plated Push & Insert Speaker Terminals
- High Strength ABS Motor Cover
- Heat Dispersing Ported Nickel Plated Back Plate
- Ultra Ridged Stamped Steel Basket
- Form Fitting Trim Piece to Conceal Mounting Screws

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.

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.

W	EAN M	ACHIN	MEAN MACHINE SUBWOOFERS	MOO!	-ERS		
ELECTRICAL	MW10	<u>/10</u>	MW12	112	MW15	MW12SQ	
Wiring	Parallel	Parallel	Parallel Parallel	Parallel	Parallel	Parallel	
NomZ	2+2	4+4	2+2	4+4	2+2	4+4	Ohm
Sd	0.0319	0.0319	0.0505	0.0505	0.0812	0.0602	sqM
Revc	96'0	1.525	96'0	1.525	0.95	1.5	Ohm
Pevc	1	1	l	1	1	1	шH
BL	8.57	10	8.57	10	8.57	10	T×M
Vas	18.81	18.81	47.39	47.39	122.6	47	Liter
Cms	131	131	131	131	131	91	n/Wn
Mms	176.3	167.3	200.53	191.5	254.36	257.8	Grams
Fo	33.12	34	31.05	31.77	27.57	32.8	Hz
Qms	3	3	3	3	3	3	
Ges	0.475	0.545	909.0	0.583	0.57	0.797	
Qts	0.41	0.461	0.433	0.488	0.479	0.704	
no	0.103	0.106	0.18	0.185	0.215	0.201	%
SPL@1W	83.63	83.37	86.52	86.19	88.58	85.22	dB
SPL@2.83V	92.88	90.56	95.77	93.39	97.84	92.49	фВ
Xmax/Over Hang	15	15	15	15	15	15	mm
Xmech/Suspension	25	25	25	25	25	25	mm
Watt@RMS	500	500	009	600	700	009	Watts
Watt@PEAK	1000	1000	1200	1200	1400	1200	Watts

MEAN MACHINE SUBWOOFERS						
	MW10	MW12	MW15	MW12SQ		
CLOSED BOX DESIGNS (SEALED)						
Standard Tight Bass						
Box Volume	0.5	1	2	1.25	Cubic Feet	
Qtc	0.623	0.703	0.837	0.931		
F3	57	52	45	42	2	
Optimal Sound Quality-Flat Response						
Box Volume	1	2	3	2.25	Cubic Feet	
Qtc	0.52	0.575	0.729	0.799		
F3	56	50	42	39	Hz	
VENTED BOX DESIGNS (ROUND PORT)						
Standard Tight Bass						
Box Volume	0.75	1.25	2	1.6	Cubic Feet	
Fb	45	40	40	42	Hz	
Port Size (Inside Diameter)	2.5	3	4	4	Inches	
Port Length	8	8.5	8.9	10.3	Inches	
F3	37	36	39	35	Hz	
Optimal Sound Quality-Flat Response						
Box Volume	1.1	1.75	3.25	2	Cubic Feet	
Fb	39	38	38	38	Hz	
Port Size (Inside Diameter)	3	4	6	4	Inches	
Port Length	10.5	12.5	14	9.7	Inches	
F3	32	33	33	31	Hz	
VENTED BOX DESIGNS (SLOT PORT)						
SPL Very Boomie - Loud						
Box Volume	1.9	3	4.15	3.5	Cubic Feet	
Fb	43	44	46	45	Hz	
Port Size (Height)	10.5	12.5	15.5	12.5	Inches	
Port Size (Width)	2	3	3.5	4	Inches	
Port Length	20.8	21.2	18	24	Inches	
F3	34	35	37	34	Hz	

FEATURES ARE SUBJECT TO CHANGE WITHOUT NOTICE

NOTE: All above box volumes are internal values and already include subwoofer and port displacement.

The F3 value represents the -3db cut off of the enclosure in Hz.

Polyfill may be added to sealed enclousres to reach the desired Q-Value.

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.

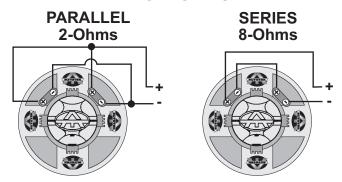
LV Length of vent.

H Height.

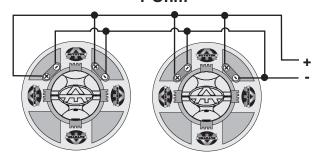
W Width

D Depth

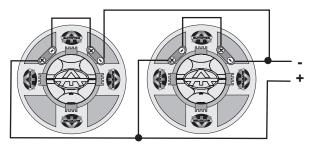
MW10D4 / MW12D4 / MW12SQD4 DVC 4-Ohms



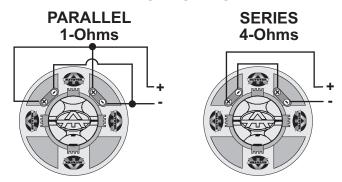
PARALLEL COILS / PARALLEL SUBS 1-Ohm



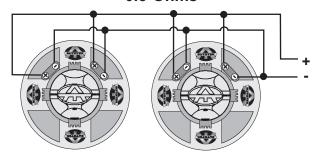
SERIES COILS / PARALLEL SUBS 4-Ohms



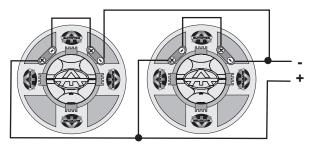
MW10D2 / MW12D2 / MW15D2 DVC 2-Ohms



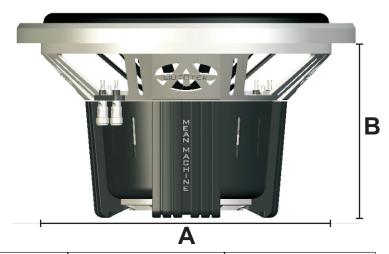
PARALLEL COILS / PARALLEL SUBS 0.5-Ohms



SERIES COILS / PARALLEL SUBS 2-Ohms



Subwoofer Dimensions



Model	A - Cut Out Diameter	B - Mounting Depth
MW10	9.1" / 230mm	6.2" / 157.48mm
MW12	11" / 280mm	6.9" / 175.26mm
MW15	13.8" / 350mm	8" / 203.2mm
MW12SQ	11.1" x 11.1" 282 x 282mm	7.3" / 185.42mm

[★]Due to the vented backplate, you must allow for an additional 2" behind the subwoofer when designing your speaker 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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