

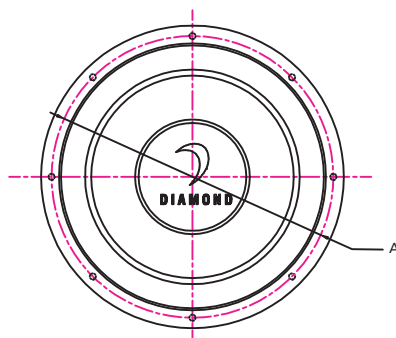
FEATURES

Hard Anodized Titanium Magnesium Alloy Cone - High rigidity, smooth linear response
 Die-cast Alloy Chassis - High strength maintains critical parts alignment
 "Omega" Rubber Surround - Durable at environmental extremes. Large roll allows long stroke
 Machined Backplate/Pole - Precision engineered to exacting tolerance
 Aluminum VC Former - 400% stronger than Kapton®, excellent heat transfer
 3" Dia. Pure Copper Coil - 4-layer design. High thermal/current capacity for high power handling.
 Mirror Image Dual Nomex® Spiders - Enormous controlled excursion, ultimate durability.
 Spider Isolated Lead Wire System - No slap, will not break at high excursion.
 3-Year Warranty - If purchased from and installed by an Authorized Diamond Retailer.

DIMENSIONS AND VOLUMES

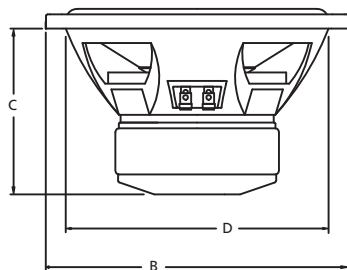
IMPERIAL DIMENSIONS

DIMENSION	M6mkII10	M6mkII12	M6mkII15
A (bolt circle diameter)	9.53"	11.57"	14.57"
B (outside diameter)	10.37"	12.43"	15.43"
C (height)	6.18"	6.81"	7.87"
D(Thru Hole diameter)	8.9"	10.83"	13.9"
Displacement	0.106 ft ³	0.15 ft ³	0.205 ft ³



METRIC DIMENSIONS

DIMENSION	M6mkII10	M6mkII12	M6mkII15
A (bolt circle diameter)	242 mm	294 mm	370 mm
B (outside diameter)	263.5 mm	315.8 mm	392 mm
C (height)	157 mm	173 mm	200 mm
D(Thru Hole diameter)	226 mm	275 mm	353 mm
Displacement	3 L	4.25 L	5.83 L



INSTALLATION

The installations and enclosures shown in this manual are offered as a suggestion only. Since enclosure design is as important to sound quality as the speaker itself, it is recommended that your Authorized Diamond Retailer assist you in designing and building an enclosure to suit your vehicle. For more information on selecting the best subwoofer enclosure, consult the "FAQ" page of our web site, www.diamondaudio.com.

TECHNICAL SPECIFICATIONS

The information below is provided to enable custom enclosure design and is intended for professional use only. Please consult your Authorized Diamond Retailer for an enclosure which best suits your requirements.

THIELE/SMALL PARAMETERS

	M6mkII10D2	M6mkII10D4	M6mkII12D2	M6mkII12D4	M6mkII15D2	M6mkII15D4
Impedance (ohm)	4*	8*	4*	8*	4*	8*
SPL 1w/1m(dB)	84	84	85.5	85.5	87	87
Qes	0.55	0.56	0.56	0.57	0.57	0.58
Qts	0.51	0.49	0.51	0.51	0.52	0.51
Fs (Hz)	35.3	40	32.4	34	25.2	28
Vas (L)	8.9	12.3	12.6	33.1	88.5	74
Cms (mm/N)	0.064	0.088	0.070	0.098	0.097	0.081
Mms (g)	325	181	346	223	411	398
Sd (M ²)	0.0316	0.0316	0.0489	0.0489	0.0804	0.0804
BL (T·M)	22.3	24.9	22.1	24.2	20.6	27.2
Re	3.9	6	3.9	6	3.7	6
Xmax (mm)	17.8	18.3	17.8	16.5	16	15

*parameters shown are with voice coils wired in series

RECOMMENDED ENCLOSURES

Diamond's M6 Mark II Series subwoofers are primarily designed for use with small sealed enclosures. Good results have also been achieved in vented enclosures. Although "free-air" (infinite-baffle) applications are NOT recommended, they may be used successfully in low-power systems (e.g., 75W or less per sub). HIGH PASS ("SUBSONIC") FILTERS MUST BE USED WITH NON-SEALED APPLICATIONS TO PREVENT OVER-EXCURSION AT INFRASONIC FREQUENCIES.

The enclosure volumes shown below are GROSS INTERNAL VOLUMES. Driver and vent displacement has been taken into account for these designs.

RECOMMENDED ENCLOSURES

	M6mkII10	M6mkII12	M6mkII15
SEALED ENCLOSURE			
Vb (ft ³)	.625~1.0	.875~1.25	1.5~3.25
F3 (Hz)	51~52	47	39~36
Pe (Watts)	800	800	800~600
Qtc (@ max pwr)	.62~.52	0.72~.65	.91~.71
VENTED ENCLOSURE			
Vb (ft ³)	1.25	1.25	3.0
F3 (Hz)	31	34	27
Fb (Tuning freq.)	38	40	30
Pe (Watts)	600	800	800
Ports	2	1	1
Port I.D.	2.5"	4"	4"
Port Length	16"	20.5"	11"