

AUDIOPHILE ACOUSTICS



B2[®]

SWEET LIKE DANISH

REFERENCE V2

MANI

The lunar deity

3 WAY SPEAKER SET

MODEL: MANI

PRODUCT ID: MANI6320

WWW.B2AUDIO.COM / WWW.FACEBOOK.COM/B2AUDIO / [INSTAGRAM: B2_AUDIO](https://WWW.INSTAGRAM.COM/B2_AUDIO)



INTRODUCTION

Always striving for perfection has been the aim since we founded the company 2 decenniums ago. The Mani loudspeakers ushers in a new era of elitism. Natural materials such as wollen bamboo & premium silk enhances the strenght & the loudspeakers frequency response. The impact and coloring of the sound from the material is minimal, which is the cornerstone of any High Fidelity experience.

Implementation of our SAFT* loudspeaker frame increases the soundwave with the least amount of resistance. The result is a loudspeaker that will have an optimized linearity throughout the audible range, a rather large side benefit is less amplified power needed to achieve that of other speakers comparable.

*(Smooth Air Flow Tech)

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AUDIOPHILE ACOUSTICS

IS THE DNA OF B2 AUDIO, ANY PRODUCT IS DEVELOPED BY ADDING THE UNIQUENESS AND THOUGHT OF EVOLUTION IN THE SPECIFIC APPLICATION OF THE PRODUCT'S DESIGN.

KEEP IN MIND THAT CONTINUOUS EXPOSURE TO SPL ABOVE 100 DB CAN SERIOUSLY DAMAGE YOUR HEARING. TODAY'S HIGH POWER AUTO SOUND SYSTEMS CAN EASILY PRODUCE SPL ABOVE 140 DB. ENJOY YOUR PASSION WITH SENSE AND RESPECT FOR THE ENVIRONMENT.

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DESIGN FEATURES

Mani

3 Way Component Speaker System

Midwoofer:	6.5" Bamboo infused paper cone, strontium magnet structure
Midrange:	3" Bamboo infused paper cone, strontium magnet structure
Tweeter:	1.6" Silk dome tweeter, neodymium magnet structure
Frequency Response:	50 Hz ~ 25 KHz

Thiele Small data:

Midwoofer

Fs:	55 Hz	Re:	3.6 Ω
Qms:	2.68	Z nom:	4 Ω
Qes:	0.50	Voice coil:	1.2"
Qts:	0.42	Rms:	2.45
Vas:	11.67 L	Efficiency:	0.53%
Cms:	439 $\mu\text{m}/\text{N}$	BL:	6.39 TM
Mms:	16.4 g	SPL:	89.6 dB
Power handling:	100 w	Le:	0.264 mH

Thiele Small data:

Midrange

Fs:	159 Hz	Re:	5 Ω
Qms:	5.54	Z nom:	5.2 Ω
Qes:	1.43	Voice coil:	1"
Qts:	1.14	Rms:	0.51
Vas:	0.5 L	Efficiency:	0.142%
Cms:	354 $\mu\text{m}/\text{N}$	BL:	3.2 TM
Mms:	2.8 g	SPL:	83.6 dB
Power handling:	50 w	Le:	0.21 mH

Tweeter data:

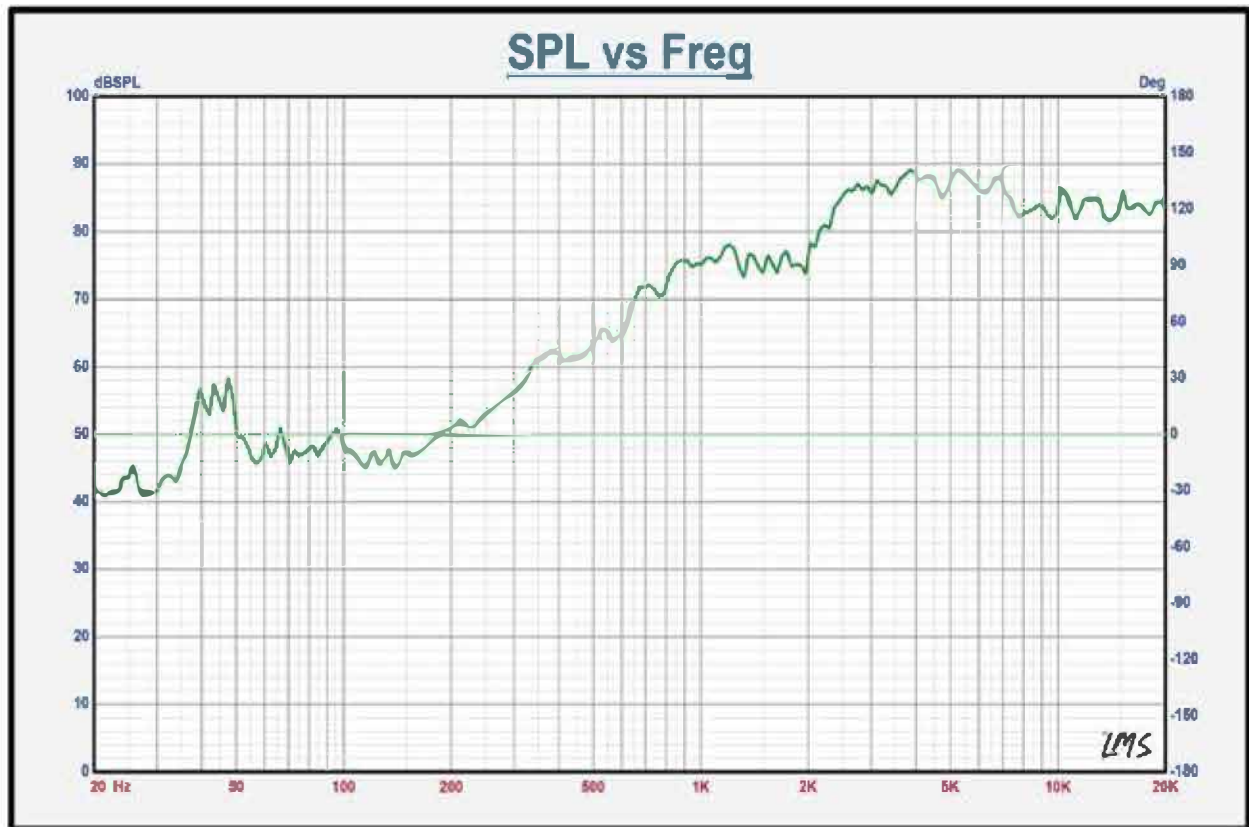
Fs:	1250 Hz	Re:	3.9 Ω
Qms:	0.76	Z nom:	4 Ω
Qes:	2.43	Voice coil:	1"
Qts:	0.58	BL:	6 TM
Vas:	0.001 L	SPL:	84 dB
Cms:	5.7 $\mu\text{m}/\text{N}$		
Mms:	2.8 g		
Power handling:	30 w		

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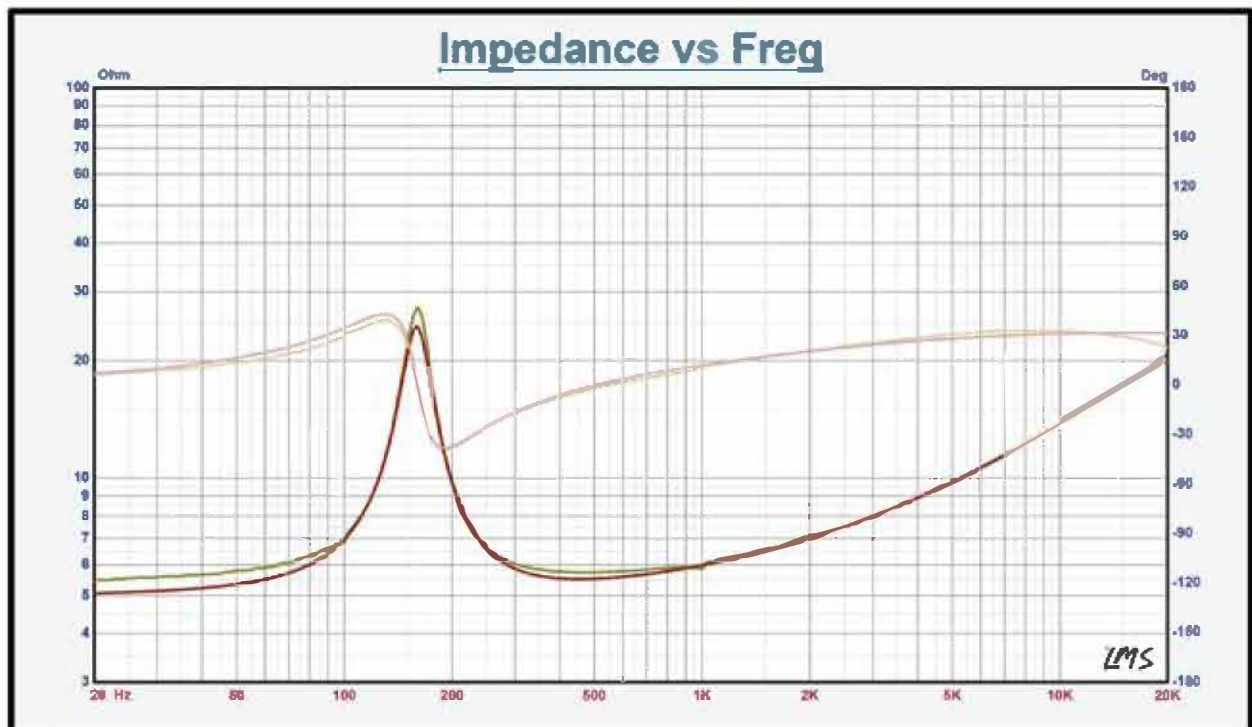
FREQUENCY DIAGRAM

Mani

Tweeter



Midrange

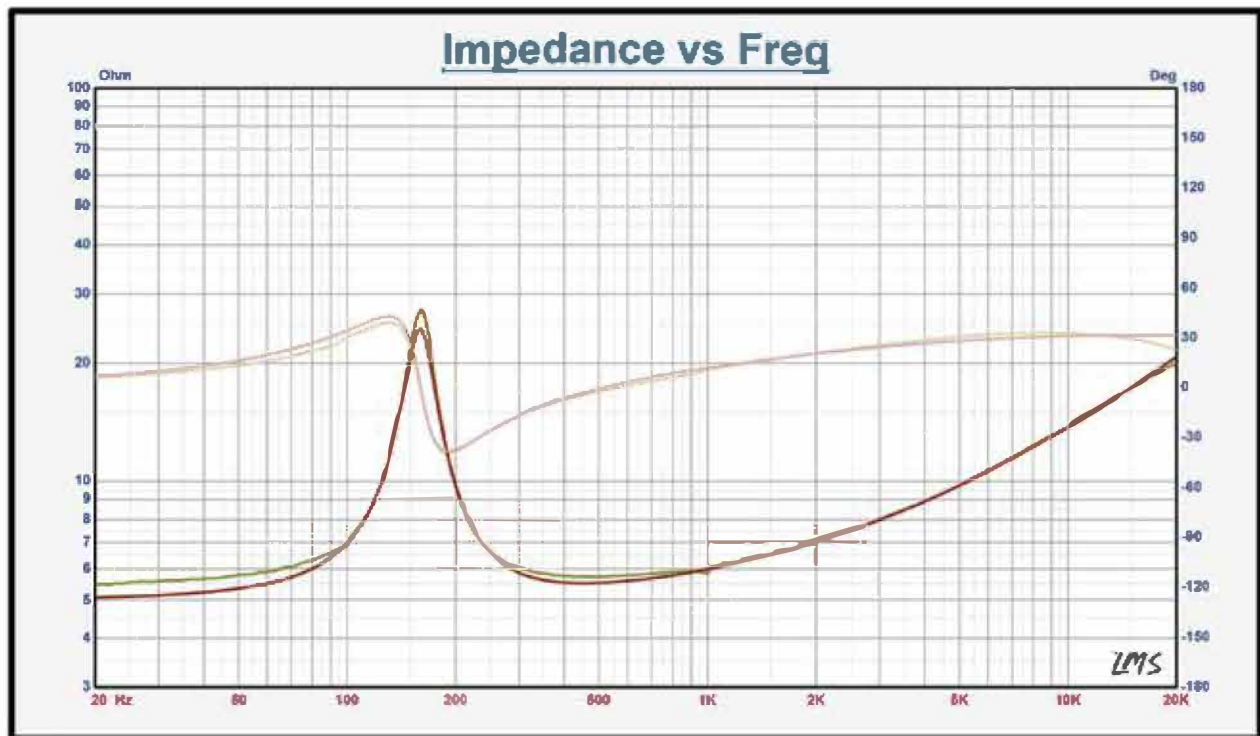


B² audio

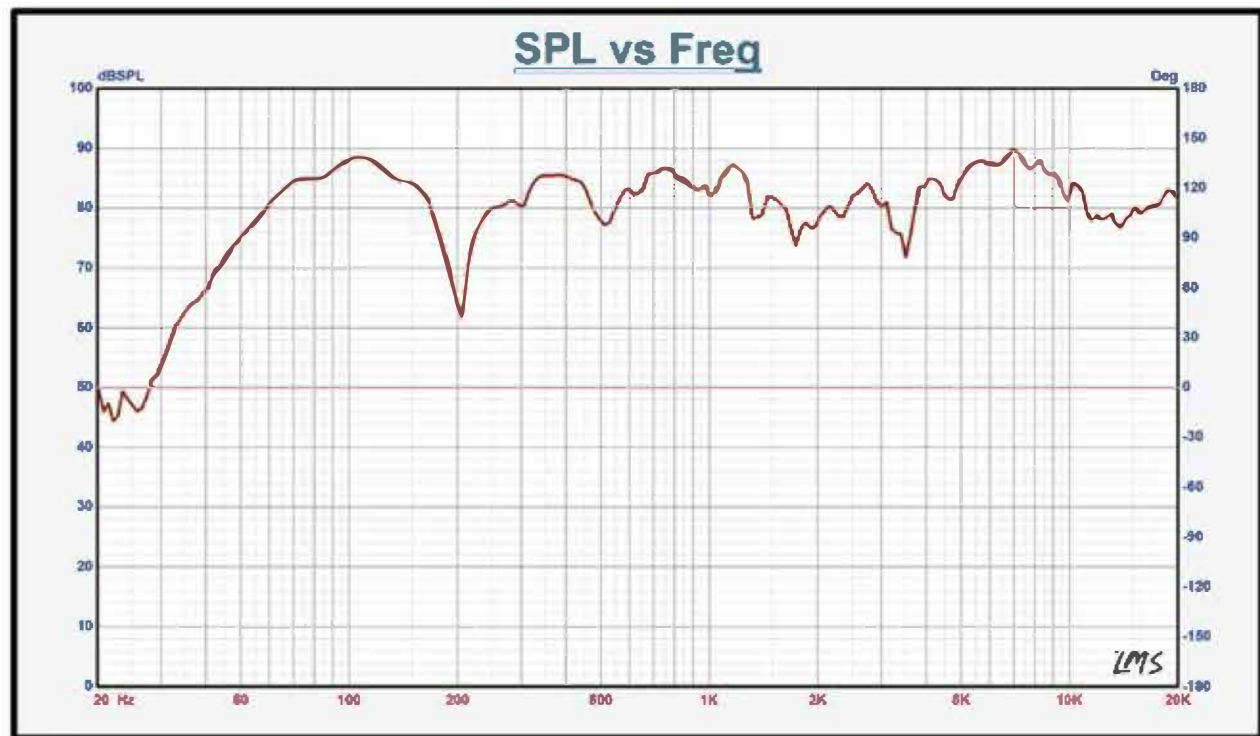
FREQUENCY DIAGRAM

Mani

Midrange



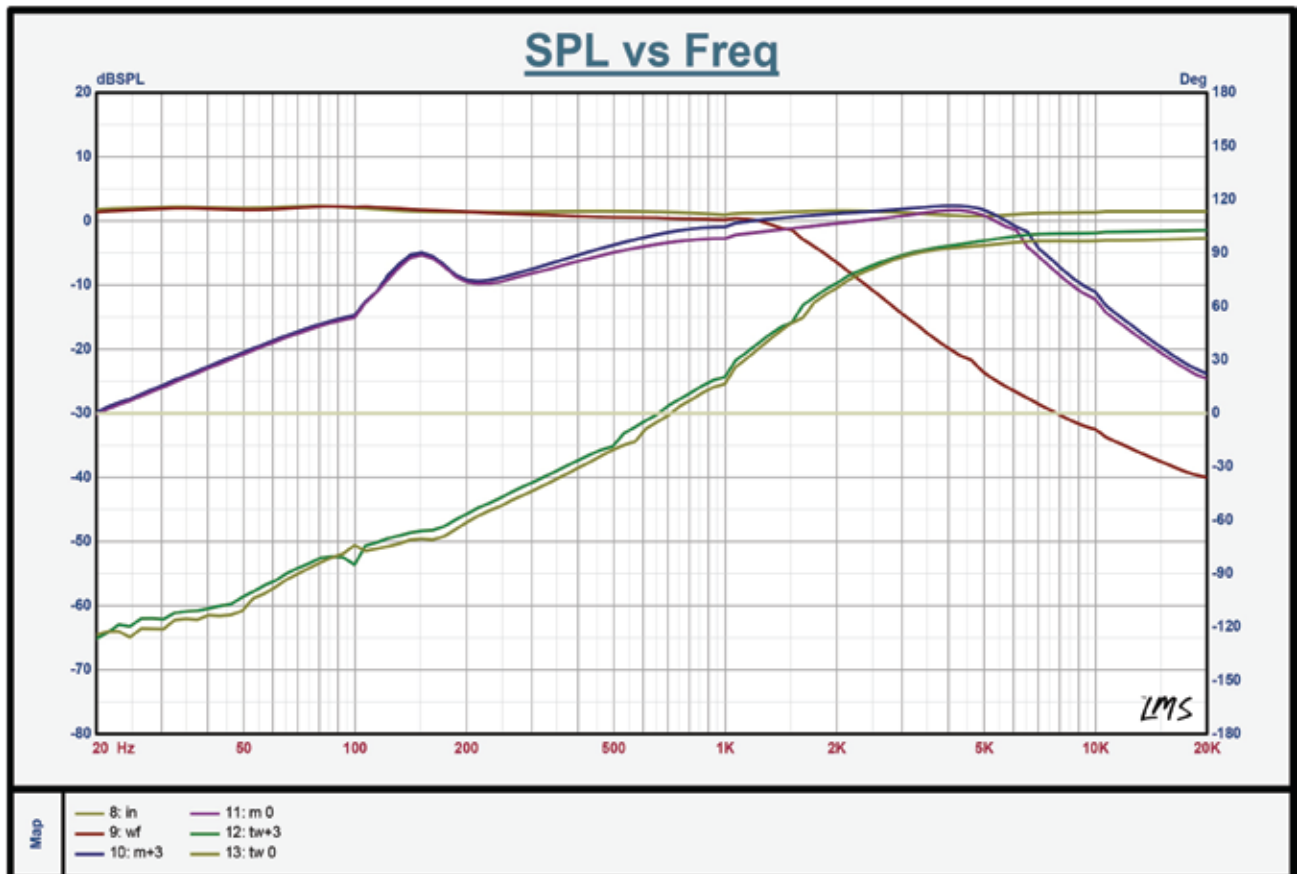
Combined frequency response



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CROSSOVER POINTS

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Woofer & Mid + 3 dB

Woofer & Mid + 0 dB

Mid + 3 dB & Tweeter + 3 dB

Mid + 3 dB & Tweeter + 0 dB

Mid + 0 dB & Tweeter + 3 dB

Mid + 0 dB & Tweeter + 0 dB

Xover point: 1.25 KHz

Xover point: 1.55 KHz

Xover point: 6.6 KHz

Xover point: 6.8 KHz

Xover point: 6.25 KHz

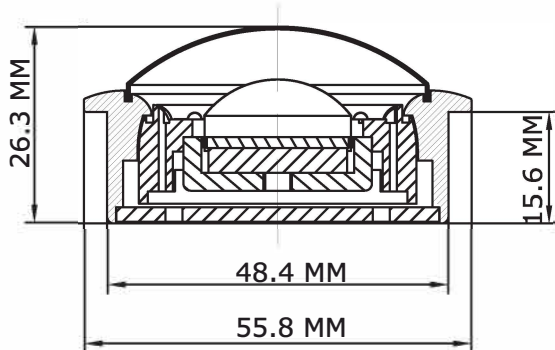
Xover point: 6.45 KHz

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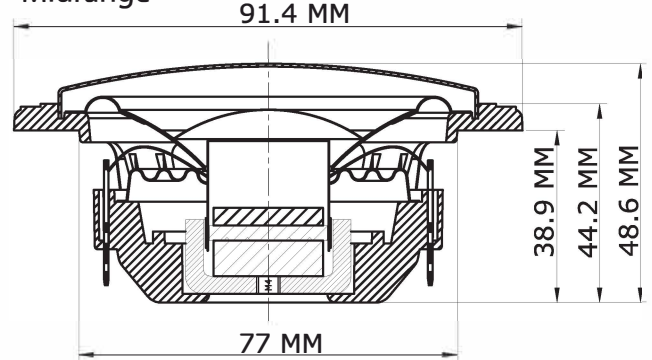
DIMENSIONAL DATA

Mani

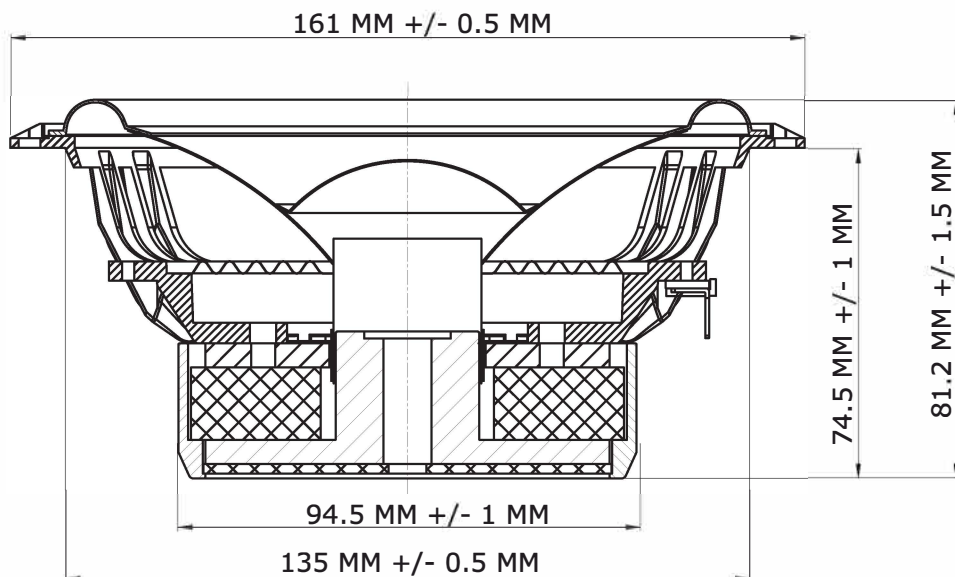
Tweeter



Midrange



Woofer



INSTALLATION

Prior to installation, ensure a proper location for the speaker system.

Due to the physical dimensions of the cabin, it is wise to test various points of placements if possible. If oem position is chosen, a good tip is to reinforce the mounting with a mdf ring and seal off leakage from that position. This will enhance mid bass response as well as optimizing overall performance. Do also try with slightly angling the midwoofer to "raise" the sound.

It is wise to keep both the midrange and tweeters in the same plane, this will make the sound appear more direct and it will cause less problems with an out of phase sensation.

The tweeters & midranges can preferably be mounted in a-pillars or placed close to the windscreen, mirroring of that and reflecting the sound towards the best audible position.

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LIMITED WARRANTY INFORMATION

B2 audio offers a limited warranty under the following terms:

The product is to be free of defects in material & workmanship under normal use for a period of 1 year from the date of the original purchase, when installed by an authorized dealer. Items not installed by authorized dealers will be warrantied for 30 days from the original purchase. Original sales receipts must be accompanied with all returns. The warranty applies to the original purchaser of the product & it being sold by authorized B2 audio dealers.

- The warranty does not cover:
1. Damage caused by accident, abuse, misuse, improper operation, water / solvents & shipping.
 2. Product modification, neglect, failure to follow installation instructions & misrepresentation by the seller.
 3. Products used for competition purposes or are of such a character
 4. Any product that has been opened.
 5. Products that has had the serial number defaced, altered or removed.
 6. The cost of shipping the product back for repair to an authorized repair centre & cost of return of non-defective items.

