

# B<sup>2</sup> audio

MODEL: REFS.3

PRODUCT ID:REFS316



# Ref 6.3

Reference Component Speaker System

OWNER'S MANUAL



## INTRODUCTION

We thank you for purchasing the Ref 6.3 speaker system. Your decision to be part of something different is what we strive for. Our products reflects who we are, going to the extent to deliver you our finest comes natural.

The Ref 6.3 3 way component system is engineered to achieve a balanced sound reproduction. Whether it is SQL or entirely SQ, the sound reproduced will appear natural. We refer to it as an audiophile product, optimizing every aspect of the speaker to achieve better efficiency, minimizing distortion, enhancing the frequency response & creating audio reproduction based on Sound Quality for the listener.

For continuous news & updates feel free to visit **B<sup>2</sup>** at [www.facebook.com/b2audio](http://www.facebook.com/b2audio) / [www.youtube.b2audio](http://www.youtube.b2audio) / [www.b2audio.com](http://www.b2audio.com)

\*It is essential that the Ref 6.3 speaker system is given time to allow the suspension to soften up. Also referred to as "Burn In". Depending on use, this may take several weeks. While this process is undergoing, it is not recommended to apply full amplification power according to the speakers specs. Once the "Burn In" has been done, the audio reproduction of the Ref 6.1 will appear more natural & balanced.f



## Better Bass

Better Bass is our philosophy of adding something extra without deterring the sound. 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 over 140 dB. Enjoy your music with sense.

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## DESIGN FEATURES

*Ref 6.3*

### Reference Component Speaker System

Midwoofer: 6.5" Composite cone, ferrite motor structure  
Midrange: 3.2" Coated paper cone, neodymium motor structure  
Tweeter: 1.25" Silk dome tweeter, neodymium motor structure  
Frequency Response: 50 Hz ~ 25 KHz

#### Thiele Small data:

#### Midwoofer

Fs:	56.57 Hz	Re:	3.6 $\Omega$
Qms:	2.175	Z nom:	3.9 $\Omega$
Qes:	0.423	Voice coil:	1.5"
Qts:	0.354	Rms:	2.77
Vas:	11.71 L	Efficiency:	0.491%
Cms:	467 $\mu\text{m}/\text{N}$	BL:	7.16 TM
Mms:	16.95 g	SPL:	92.36 dB
Power handling:	150 w		

#### Thiele Small data:

#### Midrange

Fs:	150 Hz	Re:	5.2 $\Omega$
Qms:	3.72	Z nom:	6 $\Omega$
Qes:	1.04	Voice coil:	1"
Qts:	0.816		
SPL:	83 dB		
Power handling:	50 w		

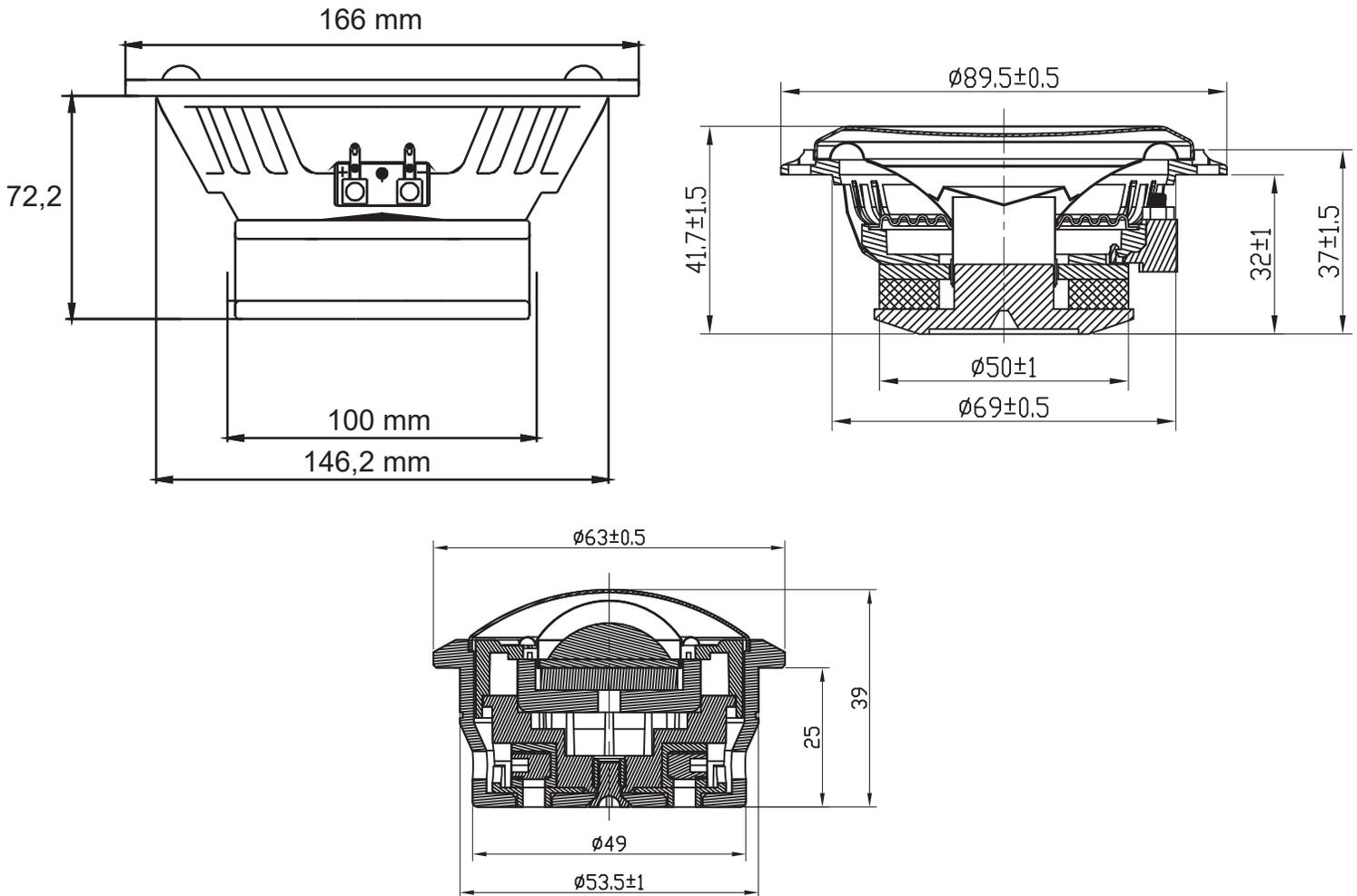
#### Tweeter data:

Fs:	950 Hz
Qms:	1.57
Qes:	5.57
Qts:	1.22
Re:	3.6 $\Omega$
Z nom:	4 $\Omega$
Voice coil:	1"
Power handling:	15 w

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## DIMENSIONAL DATA

Ref 6.3



## 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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# B2

## 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.

