



British Audio



BLACKAIR 1 TWEETER

- BA1TW-V4

BLACKAIR 3 MIDRANGE

- BA3M-V4

BLACKAIR 6 COAXIAL

- BA6-V4

BLACKAIR 6 MIDWOOFER

- BA6MW-V4



Speaker Range

Owners Manual

Congratulations on purchasing your VIBE speakers. Please read this manual in order to fully understand how to get the best results from this product and ensure that all advice on how to look after the product is followed.

Thank you for buying VIBE, we hope you enjoy listening to your product as much as we enjoyed creating it.

WARNING



DO NOT EXPOSE THIS PRODUCT TO DAMP OR MOISTURE - doing so may result in fire, shock or damage to the product.

BEFORE WIRING DISCONNECT THE CABLE FROM THE POSITIVE BATTERY TERMINAL - failure to do so may result in electric shock or injury.

ENSURE GOOD AND CORRECT CONNECTIONS - failure to make the correct connections may result in fire or damage to the product.

DO NOT USE ANY FUNCTIONS OF THIS EQUIPMENT THAT MAY TAKE YOUR CONCENTRATION AWAY FROM DRIVING YOUR VEHICLE - do not set up your amplifier whilst driving, doing so may result in an accident. For prolonged setting up, make sure that your vehicle is stationary and in a safe location.

KEEP THE VOLUME AT A LEVEL SO YOU CAN STILL HEAR OUTSIDE NOISE - failure to do this may result in an accident. VIBE equipment is capable of producing sound levels that can permanently damage your hearing. VIBE recommends caution when listening at high volume. For safe and enjoyable listening the sound should be comfortable and clear without distortion.

CAUTION

Never connect any speaker lead to the car chassis. This can cause severe damage to your speaker /car radio /amplifier.

Before drilling or cutting any holes, investigate the layout of your vehicle thoroughly. Use caution when working near the fuel / hydraulic lines and electrical wiring.

Observe the correct polarity when wiring, improper phasing may cause a loss of bass response.

Ensure that no moving parts catch on the speaker or grill (e.g. window or door handles, or window glass inside the door)

Limited Warranty

All VIBE products carry a full 12 month warranty, valid from the date of the original receipt and proof of purchase (UK only). The online warranty card should be completed within seven days of the original purchase date. The original receipt and packaging should be retained for this twelve month period. If the product develops a problem any stage during the warranty period, it should be returned to the point of purchase in it's original packaging, and complete with no items missing.

A full description of VIBE's warranty information and registration can be found on our website :

www.vibeaudio.co.uk/warranty



What Is Not Covered

- Damage to product due to improper installation.
- Subsequent damage to other components.
- Damage caused by exposure to moisture, excessive heat, chemical cleaners and / or UV radiation.
- Damage through negligence, misuse, accident or abuse. Repeated returns for the same fault may be considered abuse.
- Any cost or expense related to the removal and / or re-installation of the product.
- Damage caused by amplifier clipping or distortion.
- Items repaired or modified by any unauthorised repair facility.
- Return shipping on non defective items.
- Products returned without a returns authorisation number.
- Damage to product due to use of sealant.

International Warranty

Contact your international VIBE dealer or distributor concerning specific procedure for your country's warranty policies. www.vibeaudio.co.uk

Warning

VIBE equipment is capable of sound pressure levels that can cause permanent damage to your hearing and those around you. Please use common sense when listening to your audio system and practice safe sound.

Copyright

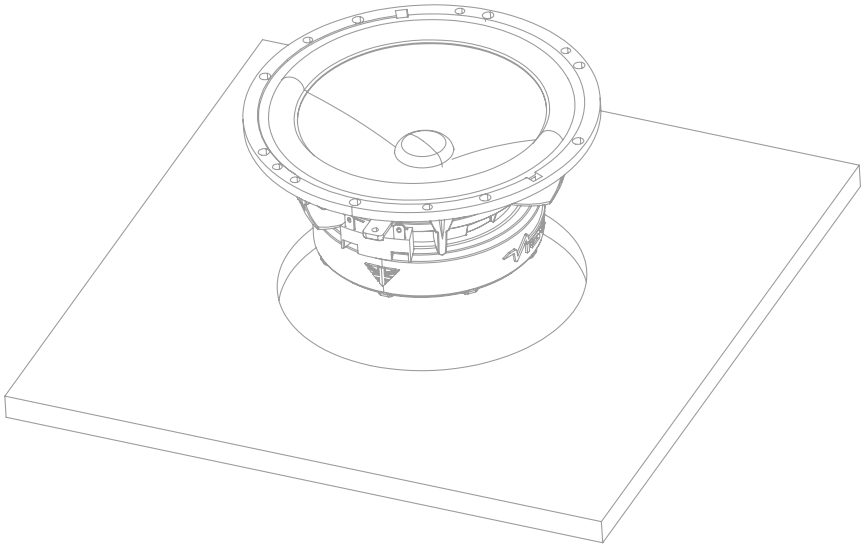
All content included in this manual such as text, graphics, logos, icons, images and data, are the property of Midbass Distribution Limited t/a VIBE Technologies Limited (herein referred to as "VIBE", "us" or "we") and its affiliate or their content and technology providers, and are protected by United Kingdom and International copyright laws. All rights reserved. VIBE TV, VIBE Arcade, Bass Box, Optisound, Cinesound, BlackAir, BlackBox, Space, LiteAir, SLICK, BlackDeath, Bubonic, Reaper, Anti-VIBE, FastPlug, BlackHole, QB69, VIBE Turbo Port, Vibe TurboVent, Pressure Board, Super Driver, VIBE Pulse, VIBE Power, VIBE Digital, VIBE MAG Plugs, Ferrite Loaded, VIBE Solid Core, VIBE OCC, VIBE FLAT, ICC, Bass Enhance, Bass Enhance+, QBass, SpeedBass, PowerBass, N-Wedge, Box Grip, ARDS3, Supercar Series and all stylised representations of product names, or the abbreviations of product names, as logos are all trademarks of VIBE. Graphics and logos are trademarks or trade dress of VIBE Technologies Ltd or its subsidiaries. VIBE's trademarks and trade dress may not be used in connection with any product or service that is not VIBE's, in any manner that is likely to cause confusion among customers or in any manner that disparages or discredits VIBE. All other trademarks not owned by VIBE or its subsidiaries that appear in this manual are the property of their respective owners, who may or may not be affiliated with, connected to, or sponsored by VIBE or its subsidiaries.

TO THE FULLEST EXTENT PERMITTED AT LAW, VIBE IS PROVIDING THIS MANUAL AND ITS CONTENT ON AN "AS IS" BASIS AND MAKES NO (AND EXPRESSLY DISCLAIMS ALL) REPRESENTATIONS OR WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, WITH RESPECT TO THIS MANUAL OR THE INFORMATION, CONTENT, MATERIALS OR PRODUCTS INCLUDED IN THIS MANUAL INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN ADDITION, VIBE DOES NOT REPRESENT OR WARRANT THAT THE INFORMATION CONTAINED IN THIS MANUAL IS COMPLETE OR CURRENT, AND THAT ALL SPECIFICATIONS AND INFORMATION CONTAINED WITHIN THIS MANUAL ARE SUBJECT TO CHANGE WITHOUT NOTICE. VIBE RECOMMEND CAUTION WHEN LISTENING TO MUSIC REPRODUCED THROUGH VIBE EQUIPMENT. VIBE EQUIPMENT IS CAPABLE OF PRODUCING SOUND AND SOUND PRESSURE LEVELS THAT CAN PERMANENTLY DAMAGE HEARING OF YOU AND THAT OF OTHERS. FOR SAFE AND ENJOYABLE LISTENING, THE SOUND SHOULD BE CLEAR WITHOUT DISTORTION AT A COMFORTABLE VOLUME. BY USING ANY VIBE EQUIPMENT, YOU AGREE TO TAKE FULL RESPONSIBILITY FOR YOUR OWN SAFETY AND THE SAFETY OF OTHERS WHEN LISTENING TO MUSIC AT HIGH VOLUMES THROUGH EQUIPMENT YOU HAVE PURCHASED. USE OF ANY VIBE EQUIPMENT CONSTITUTES AGREEMENT TO THIS DISCLAIMER. Except as specifically stated in this manual, to the fullest extent permitted at law, neither VIBE nor any of its affiliates, directors, employees or other representatives will be liable for damages arising out of or in connection with the use of this manual or the information, content, materials or products included. This is a comprehensive limitation of liability that applies to all damages of any kind, including (without limitation) compensatory, direct, indirect or consequential damages, loss of data, income or profit, loss of or damage to property and claims of third parties. For the avoidance of doubt, VIBE does not limit its liability for death or personal injury to the extent only that it arises as a result of negligence of VIBE, its affiliates, directors, employees or other representatives.

Speaker Installation Guidelines : BA3M, BA6, BA6MW

Firstly, make sure that the speakers will fit in your chosen location. This may involve the removal of the standard vehicle speakers. Please use the mounting depth and hole cut dimensions as detailed in this manual for guidance.

- If necessary cut any material away to allow the speaker to sit correctly.
- Cut out the mounting hole and pre-drill any other fixing holes.
- Screw through both gasket and speaker until the speaker is securely fastened.



Speaker Installation

Using the template provided find a suitable mounting location for the speaker. Mark the mounting holes and pre drill the fixing hole with a 2mm drill bit. If the grille is to be fitted then place it over the speaker and screw through both the grille and the speaker using the provided screws. Be careful not to over tighten the screws as it may cause damage to the grille.

Tweeter Installation Guidelines : BA1TW

The tweeter can either be fitted flush or surface mount.

Try and take into account the following when locating a suitable position.

For optimum staging try and locate a position that is higher than the woofer but within twelve inches (maximum) of it.

It is vital that the tweeter is adjusted so that it is focused towards the listener.

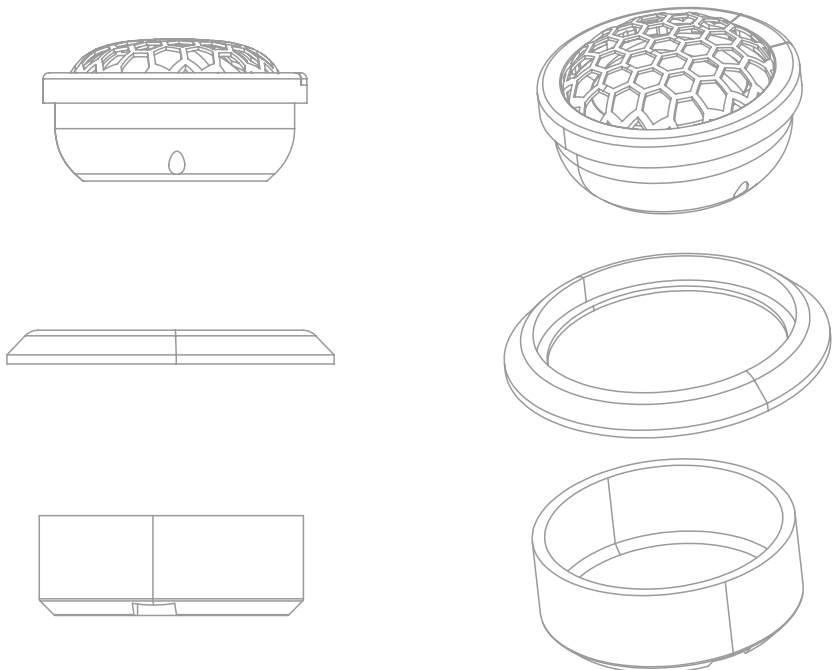
Surface Mount Installation

After finding a suitable position for the tweeters, place the base of the tweeter casing in the correct position.

Using the base, mark a hole for the wire to pass through.

Cut out this hole using an 8mm drill for the cable and ensure that the hole cut for the cable is big enough and will not cause the cable to become chaffed in any way.

Pass the tweeter cable through the bottom of the base and through the previously drilled hole.



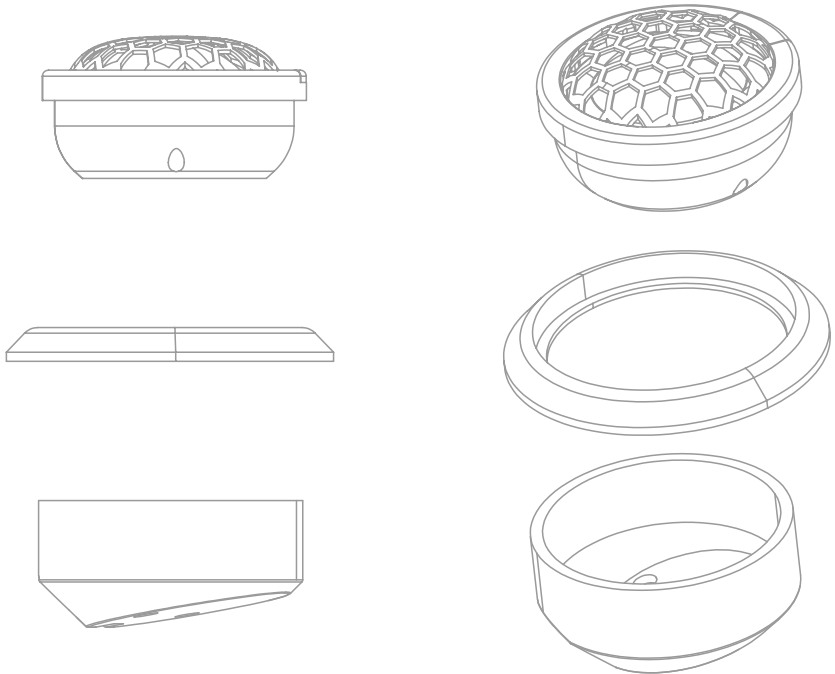
Angled Surface Mount Installation

After finding a suitable position for the tweeters, place the base of the tweeter casing in the correct position.

Using the base, mark a hole for the wire to pass through.

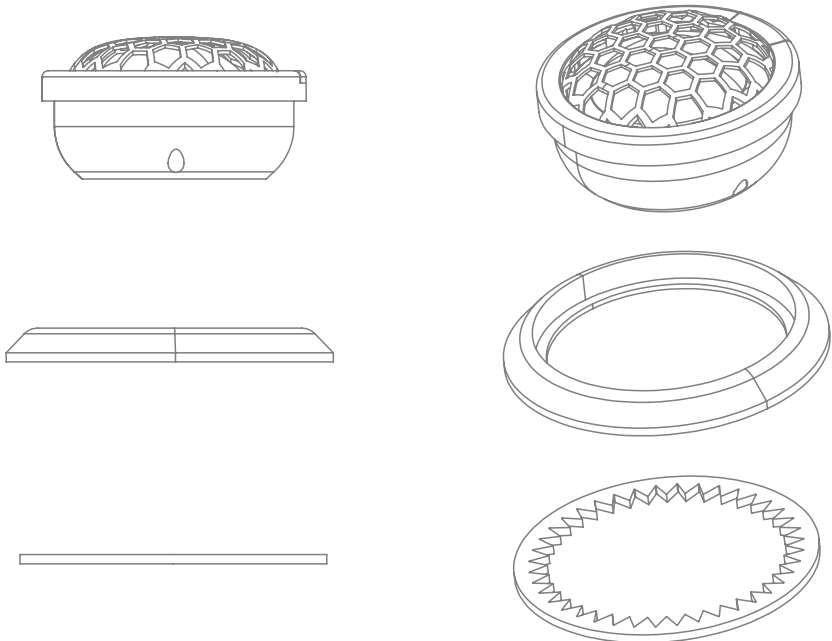
Cut out this hole using an 8mm drill for the cable and ensure that the hole cut for the cable is big enough and will not cause the cable to become chaffed in any way.

Pass the tweeter cable through the bottom of the base and through the previously drilled hole.



Flush Mount Installation

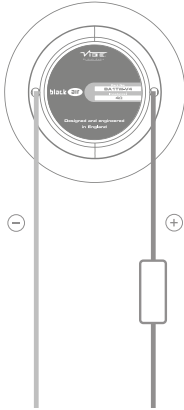
- After finding a suitable position for the tweeters place the cut out template for the tweeter in position and mark around it.
- Before cutting the holes double check that no brake, fuel lines or wiring harnesses are likely to get damaged.
- Ensure that the tweeter when fitted will not catch on any moving parts such as door / window handles.
- If mounting in a door check that the window can still be fully lowered before installing.
- Cut out the hole carefully.
- Place the entire tweeter into the cut out hole.
- From the back push the metal ring over the rear of the casing until it is tight into the cutout hole.
- After finding a suitable position for the tweeters place the cut out template for the tweeter in position and mark around it.
- Before cutting the holes double check that no brake, fuel lines or wiring harnesses are likely to get damaged.
- Ensure that the tweeter when fitted will not catch on any moving parts such as door / window handles.
- If mounting in a door check that the window can still be fully lowered before installing.
- Cut out the hole carefully.
- Position the metal fixing ring centrally, behind the cut out hole.
- Pass the tweeter cable through the central hole in the bottom of the case and the metal fixing ring..



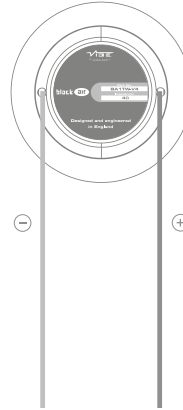
Speaker Connections

Without Electronic Crossover With Electronic Crossover

BA1TW-V4



BA1TW-V4

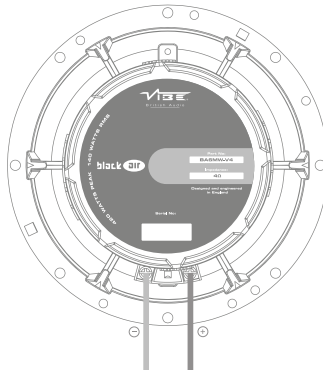


NOTE:

If no electronic crossover is being used then it is necessary to install the supplied filter capacitor in order to prevent damage to the tweeter due to too much low frequency information being passed to the tweeter.

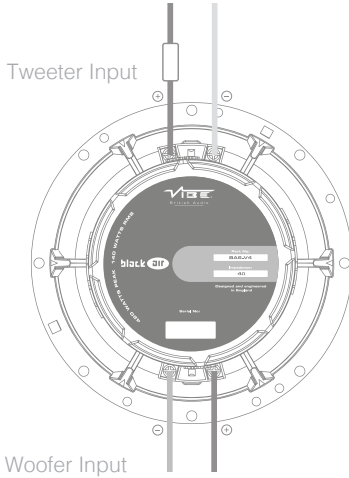
Failure to follow this will result in a non warranty failure of the tweeter.

BA3M-V4 / BA6MW-V4

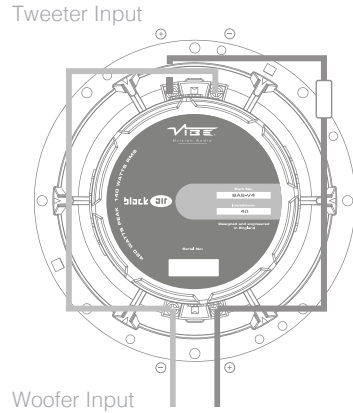


Without Electronic Crossover

BA6-V4 Dual Input



BA6-V4 Single Input



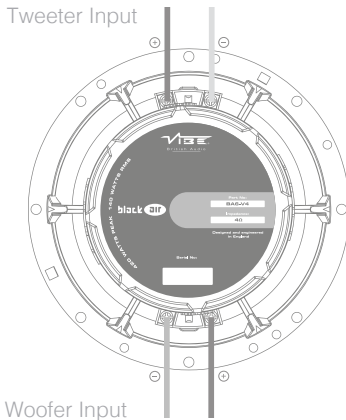
NOTE:

If no electronic crossover is being used then it is necessary to install the supplied filter capacitor in order to prevent damage to the tweeter due to too much low frequency information being passed to the tweeter.

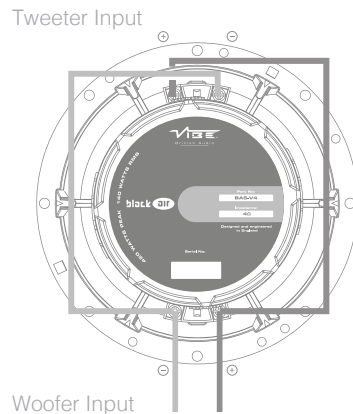
Failure to follow this will result in a non warranty failure of the tweeter.

With Electronic Crossover

BA6-V4 Dual Input

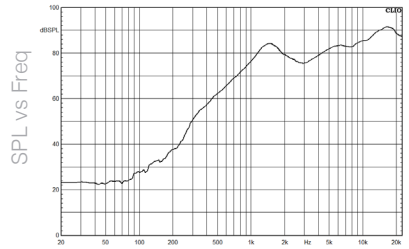


BA6-V4 Single Input

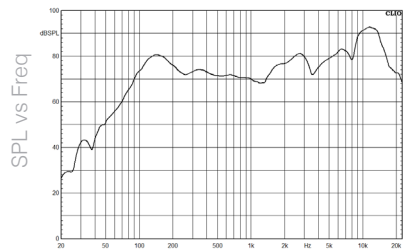
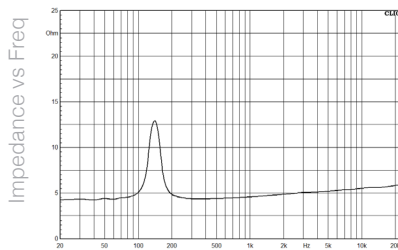


Response Curves

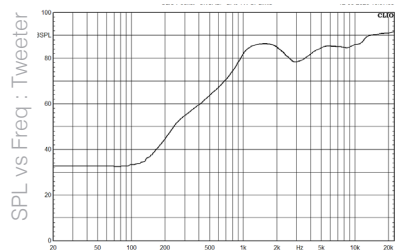
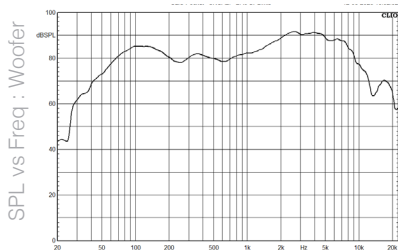
BA1TW-V4



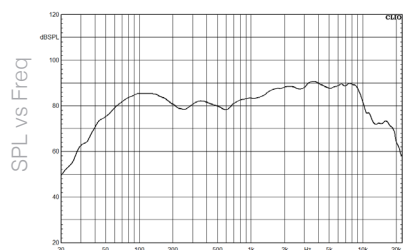
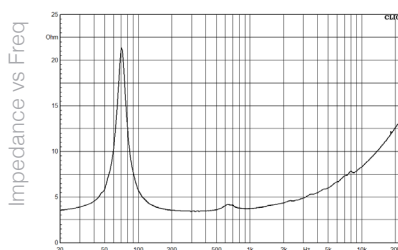
BA3M-V4



BA6-V4



BA6MW-V4



Specifications

Model	BA1TW-V4	BA3M-V4	BA6-V4	BA6MW-V4
Type	Tweeter	Midrange	Coaxial	Mid-Woofer
Configuration	1-way	1-way	2-way	1-way
Speaker Size	2.1" (54mm)	3.6" (91mm)	6.5" (165mm)	6.5" (165mm)
Peak/RMS Power	180W / 60W	180W / 60W	420W/140W	420W / 140W
Sensitivity	94dB	91dB	95dB	95dB
Freq. Response	1.5kHz -25khZ	125Hz - 20kHz	45Hz - 25kHz	45Hz - 25kHz
Impedance	4Ω	4Ω	4Ω	4Ω
Mount. Depth	0.7" (18mm)	1.7" (43mm)	2.6" (74mm)	2.6" (74mm)
Mount. Diameter	1.7" (43mm)	3" (76mm)	5.6" (146mm)	5.6" (146mm)

TS Parameters

Parameter	BA3M-V4	BA6-V4	BA6MW-V4
Fs (Hz)	140.07	75.82	71.12
Vas (L)	0.4344	11.8347	11.9443
Re (Ω)	3.2	3.3	3.3
Qms	6.5243	6.2710	5.3199
Qes	0.6480	0.5278	0.4474
Qts	0.5894	0.4868	0.4127
BL (Tm)	3.9252	5.2236	5.8308
SPL (dB)	84.6757	91.9235	91.8471
Cms (mm/N)	0.3642	0.4811	0.4855
Mms (G)	3.5450	9.1593	10.3148
Rms (Ωm)	0.4782	0.6958	0.8664
Mmd (G)	3.4556	8.2938	9.4492
Zmin (Ω)	8.4395	6.4996	6.7824
Zmax (Ω)	36.4194	42.5120	42.5409
Zavg (Ω)	10.0491	10.6742	11.3329

Technical update

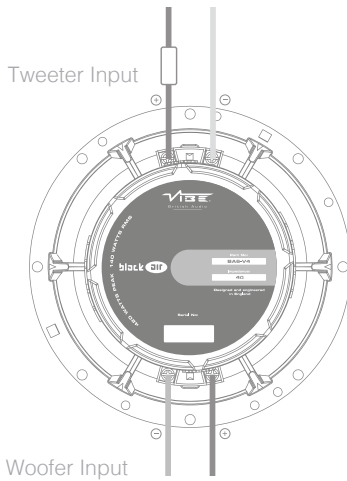
NOTE:

If no electronic crossover is being used then it is necessary to install the supplied filter capacitor in order to prevent damage to the tweeter due to too much low frequency information being passed to the tweeter.

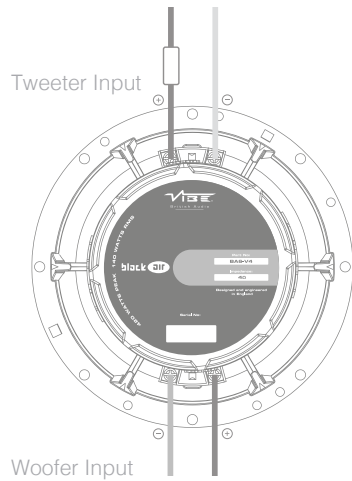
Failure to follow this will result in a non warranty failure of the tweeter.

Without Electronic Crossover

BA6-V4 Dual Input

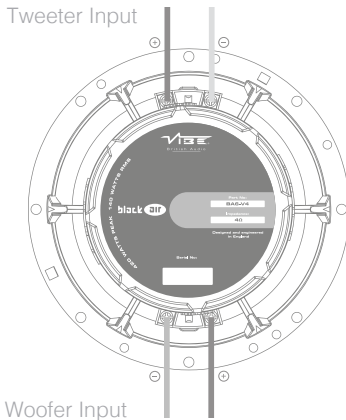


BA6-V4 Single Input

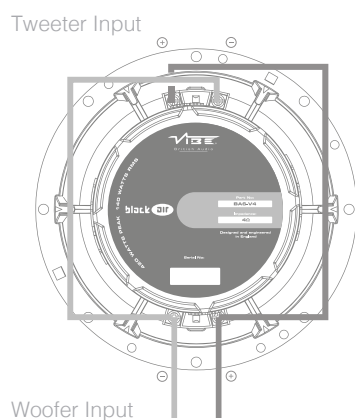


With Electronic Crossover

BA6-V4 Dual Input



BA6-V4 Single Input





British Audio



S E R I E S

Designed and engineered in England



www.vibeaudio.co.uk

www.youtube.com/vibeaudio

www.facebook.com/vibeaudio

www.instagram.com/vibeaudio