

black Death

Component Subwoofers

Model: BDCSPL15-V2 BDSPL15-V2

OWNERS MANUAL

Congratulations on purchasing your VIBE subwoofer. 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.

ATTENTION



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. In order to validate this warranty, 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. If the store is unable to repair the product it may have to be returned to VIBE.

A full description of VIBE's warranty information 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/warranty

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.

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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.

SPECIFICATION

 BD15SPL-V2
 BDC15SPL-V2

 MAX Power:
 4500 Watts
 9000 Watts

 RMS Power:
 1500 Watts
 3000 Watts

 Minimum Input:
 750 Watts RMS
 1500 Watts RMS

Impedance: Dual 2Ω Dual 1Ω

Voice Coil: 3" 4-layer 4" 4-layer flatwound

Outer Diameter:395mm395mmMounting Diameter:350mm350mmMounting Depth:210mm210mmMagnet Diameter:226mm256mmMagnet Weight:300oz450oz

RUN IN PROCEDURE

VIBE recommends that you follow the run in procedure for the subwoofer detailed below.

When your subwoofer is used for the first time, like most brand new items it is naturally very stiff and rigid. It will take time for the moving parts of this Subwoofer to loosen up before the subwoofer will be ready to deliver its full potential.

For the first thirty hours it is recommended that you play the subwoofer initially at low to medium volumes, gradually increasing the volume level as time progresses.

As a guide, if you listen to your subwoofer for one hour every day it will take a month for the subwoofer to run in properly.

You will notice a big change in the sound of the Subwoofer over this period. As the spider and surround begin to run in the sound will get deeper and harder, also the output of the subwoofer will increase as the suspension loosens up.

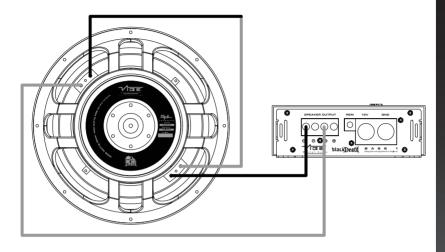
The subwoofer is like your car's engine, it needs a few thousand miles before you can drive it to its full potential. Driving it into the redline from the first day will mean damage is certain and will not be covered by warranty.

Failure to follow this simple procedure is the most common reason for a subwoofer to fail after a very short period of time.

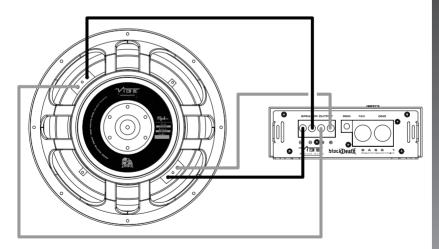
WIRING

Please follow the wiring diagrams and ensure that correct polarity is observed as incorrect wiring may cause the subwoofer to be out of phase with the rest of the system and result in a loss of bass.

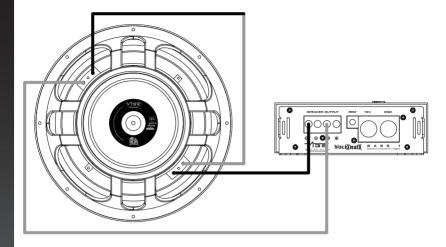
BD15SPL-V2 - 4Ω SERIES WIRING



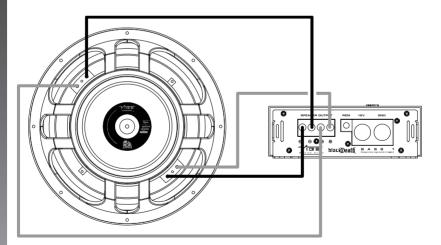
BD15SPL-V2 - 1Ω PARALLEL WIRING



BDC15SPL-V2 - 2Ω SERIES WIRING



BDC15SPL-V2 - 0.5Ω PARALLEL WIRING



WARNING

VIBE does **NOT** recommend 0.5Ω wiring with any of it's amplifiers.

The above diagram is for illustrative purposes only and you must check with your amplifier handbook to ensure that your amplifier is capable of driving a 0.5Ω impedance

VENTED ENCLOSURE INSTALLATION

A vented (also known as ported) enclosure is not much more complex than a sealed design. It consists of a box with a hole in it.

The vented enclosure has to be correctly designed in order to function correctly. The vent in the enclosure interacts with the air in the cabinet and the woofer to increase output and reduce cone excursion at and around the tuning frequency.

At the tuning frequency of the enclosure almost all of the bass is being produced by the vent, not the woofer. It is more difficult to achieve good performance as the enclosure volume and port volume are critical but the results are worth it as the ported box is up to 3 times as loud as the same woofer in a sealed box. It is also possible with the correct tuning to add a "bump" in the response of the enclosure to boost bass at a preferred frequency. Vented enclosures are best suited to dance, R&B, electronically produced music and high SPL applications.

BD15SPL-V2

Recommended enclosure:

Enclosure volume: 3 cubic feet Port area: 45 square inches

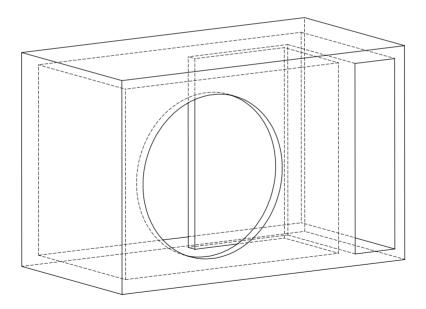
Port length: 20"

BDC15SPL-V2

Recommended enclosure:

Enclosure volume: 4.5 cubic feet Port area: 70 square inches

Port length: 20"



Note:

The above enclosures are great all round performers and there are many enclosure options available to suit a wide range of requirement.

Please visit www.vibeaudio.co.uk for more information.

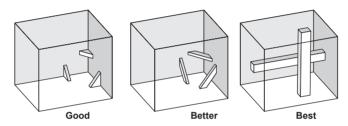
ENCLOSURE CONSTRUCTION

Use at least 1 inch MDF (medium density fibreboard) or birch ply to construct your enclosure and at least 2 inch is recommended for the baffle. It is recommend that the panels are glued, screwed and braced with sections of the same material you have used to build the enclosure from. The FLI subwoofer is capable of producing internal pressures that can literally blow apart badly made enclosures, so great care needs to be taken with the construction and bracing of your enclosure. It is also worth sealing the joints with a silicone sealer once the glue has dried to make a perfect airtight seal.

NOTE- Do not screw the Subwoofer into the enclosure within 24 hours of applying silicone sealer to the joints.

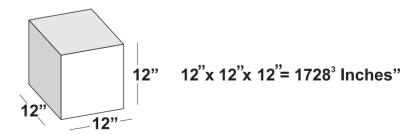
The gases given off as the silicone cures can perish the surround of the subwoofer causing a non warranty failure.

BRACING RECOMMENDATIONS



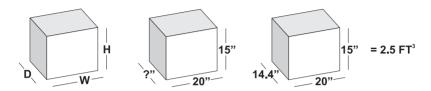
ENCLOSURE VOLUME

To calculate the volume required for your enclosure please refer to recommended enclosure volumes specified for your subwoofer. These are listed in cubic feet. To convert cubic feet to litres multiply the cubic feet by 28.3. If you use this formula calculating your enclosure size will be easy .1 cubic foot is expressed as 12" x 12" x 12" x 12" at 1728 cubic inches



ENCLOSURE VOLUME (CONT)

If we require a volume of 2.5cuft then we multiply this by 1728 2.5 x 1728= 4320 cubic inches. We now take 2 known enclosure dimensions that we will use, e.g height and width and divide this figure by them which will give us the depth, for example our height is 15", our width is 20".

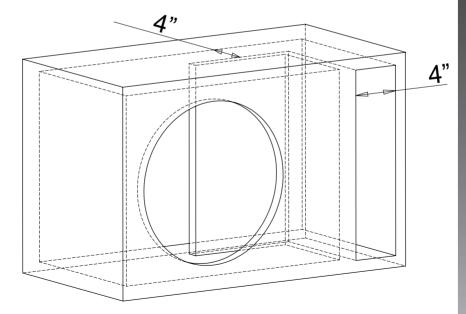


So our depth is 14.4" for this enclosure.

Note: this formula is for the INTERNAL dimensions, please add the thickness of the material used to construct the enclosure to the formula to give you the outside dimensions.

So assuming we are using one inch material we need to add two thicknesses to each internal dimension to allow for material top and bottom, therefore the external dimensions for this enclosure would be $17 \times 22 \times 16.4$ inches.

The displacement of the woofer and the displacement of the port must also be added to the required volume before you calculate the required sizes needed to build your enclosure.



Note:

When using a port you must leave a gap at least equal to the shortest measurement of the port between the rear of the enclosure and the port.

So for a 4" wide port there must be at least a 4" gap between the port and the rear of the enclosure.

TS PARAMETERS

BD15SPL-V2 FS (HZ) L (mH): Z (Ohm): Re (Ohm): SD:(msqM): BL (Tm): QMS: QES: QTS: No: SPL (dB@1W/m): SPL (dB@2.83v/m): VAS (L): CMS (um/N): MMS (g): MMD (g):	Series 33.5 Hz 7.332 4Ω 3.6Ω 80.425 32.751 3.493 0.35 0.318 0.447 88.5 92.17 41.334 45.003 488.4 475.3	Parallel 33.9 Hz 1.722 $1Ω$ $0.9Ω$ 80.425 14.902 4.602 0.407 0.374 0.427 88.4 97.99 42.522 46.296 466.2 453.0
MMS (g):		
107	475.3 15	453.0 15
Xmax (mm): Excursion (mm):	45	45

BDC15SPL-V2	Series	Parallel
FS (HZ)	35.032Hz	35.879Hz
L (mH):	2.133	0.503
• ,		
Z (Ohm):	2Ω	0.5Ω
Re (Ohm):	1.7Ω	0.42Ω
SD:(msqM):	80.425	80.425
BL (Tm):	20.966	8.793
QMS:	3.493	5.328
QES:	0369	0.458
QTS:	0.335	0.422
No:	0.535	0.521
SPL (dB@1W/m):	89.3	89.2
SPL (dB@2.83v/m):	96.21	102.4
VAS (L):	46.889	47.203
CMS (um/N):	49.332	49.794
MMS (g):	370.3	372.1
MMD (g):	356.9	358.7
Xmax (mm):	19	19
Excursion (mm):	45	45

UK TECHNICAL ENQUIRIES

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Calls cost 50p per minute. Call costs correct at date of publication (01/02/12) Hours of business 9.00am - 5.30pm GMT Monday - Friday. All calls are recorded for training purposes. MIDBASS Distribution PO Box 11000 B75 7WG



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