British Audio

BD5000.1D SPL

BD5000.1DSPL-V3

Power Amplifiers

Owners Manual

Congratulations on purchasing your VIBE amplifier. 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

An aftermarket audio amplifier will place an additional load on the vehicles charging system.
Most modern vehicles have sufficient capacity in the charging system as not all the electrical components of the vehicle will be switched on at once.

Check the fuse rating of the amplifier and use this as the peak current requirement.

Generally the continuous current draw will be a third of the peak current.

Warning

During the normal use of this amplifier the heatsink may become very hot.
Please do not touch during or immediately after use.
Please ensure that when installing this product the heatsink will not come into contact with any materials that may be damaged by heat such as upholstery or plastics.

Limited Warranty

All VIBE products carry a full 12 month warranty, valid from the date of the original receipt and proof of purchase. 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

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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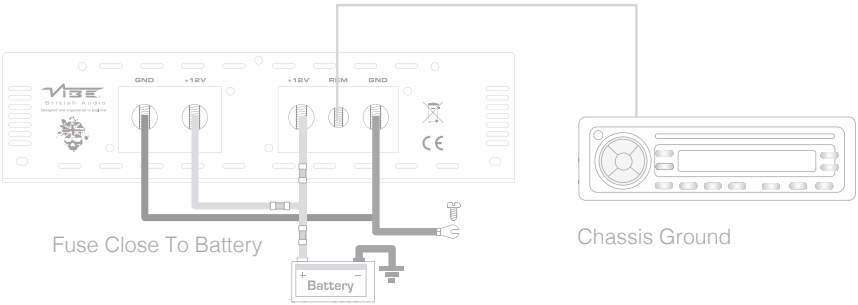
Mounting Guidelines

Your VIBE amplifier is designed with a swift installation routine in mind.

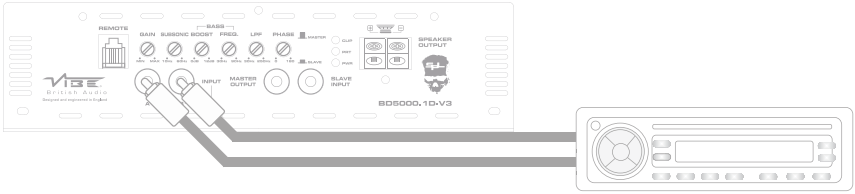
Please mount the amplifier in a dry location on a solid surface.
NEVER mount the amplifier upside down as this will cause the amplifier to over heat and will eventually damage the amplifier.

Before fixing the amplifier in place please ensure that there is sufficient air flow around the exterior of the casing, at least two inches is sufficient to allow effective cooling.

Power Connections



Low Level Input



Power Cable

- At least 0 gauge cable should be used for the power connection to the amplifier.

- The power cable should be taken directly from the battery. Rubber grommets should be used when passing through any bulkheads to prevent the cable from becoming chaffed or cut.

- It is vital that a fuse / circuit breaker (of at least equal value to the recommended fuse) is placed inline with the power cable and is no further than 18 inches away from the battery.

- Please ensure that the fuse is not fitted until the entire installation procedure is complete.

Ground Cable

- At least 0 gauge cable should be used for the ground connection to the amplifier.

- The amplifier ground should be connected directly to the chassis of the vehicle, to bare metal.

- The cable length should be kept to an absolute minimum.

- It is not recommended that you connect the ground cable to the vehicles seatbelts anchor point.

RCA Cables

- Depending on the model of your headunit and the number of speakers you wish to power you will have to run either one, two or three RCA cables from the source to the amplifier.

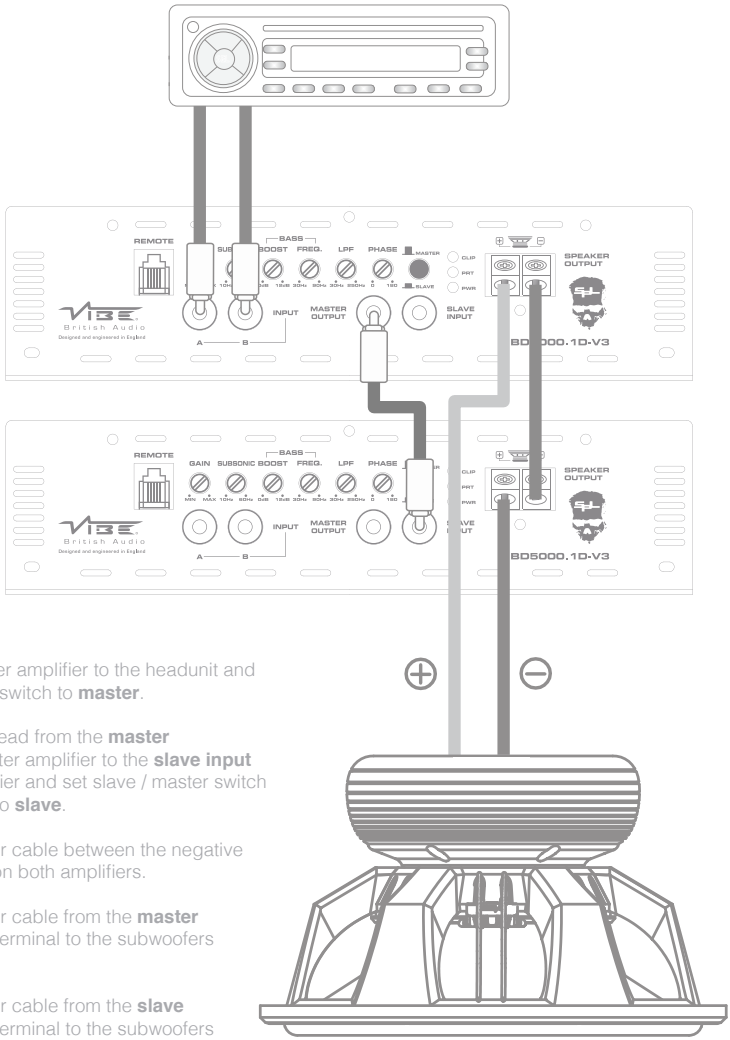
- Please take extra care when running these cables from the source to the amplifier. Ensure that they are placed away from all items that can generate any interference, wiring harnesses etc.

- It is recommended that the RCA cables should be run on opposite sides of the car to the previously installed power cables if possible, to avoid the cable picking up interference.

Terminals And Connections

1. Remote input socket
Used to connect the remote level control to the amplifier.
2. Gain control
This control is used to match the input signal of the source to the amplifier. See the setup section for more details.
3. Subsonic Filter
This control is used to set the subsonic crossover frequency for the amplifier. The frequency is adjustable between 10Hz and 60Hz.
4. Bass boost control
This control is used to add bass boost to the amplifier and is adjustable between 0dB and +12dB.
5. Bass boost frequency control
This control is used to set the bass boost frequency and is adjustable between 30Hz and 90Hz.
6. Low Pass Filter (LPF)
This control is used to set the LPF crossover frequency for the amplifier. The frequency is adjustable between 30Hz and 250Hz.
7. Phase control
This control is used to set the phase of the amplifier and is adjustable between 0° and 180°.
8. Slave / master switch
This switch is used to set the slave / master operating mode of the amplifier.
9. Power / clip / protect LED
If the amplifier is operating normally, the PWR LED will illuminate.
If the amplifier output is clipping, the CLIP LED will illuminate.
If the amplifier is in protection mode the PRT LED will illuminate.
10. Speaker terminals
Used to connect speaker cables to the amplifier. See the wiring configuration section for more details.
11. Low level input
For connection to any source (head unit) with a low level output. This is your RCA output from the source (headunit).
12. Master output
Used to connect to a slave amplifier for strapping. See strapped amplifier installation section for more details.
13. Slave input
Used to connect to a master amplifier for strapping. See strapped amplifier installation section for more details.
14. Power terminals A
Used to connect DC power to the amplifier. See the power connections section for more details
15. Power terminals B
Used to connect DC power to the amplifier. See the power connections section for more details

Strapped Amplifier Installation



1. Connect the master amplifier to the headunit and set slave / master switch to **master**.

2. Connect an RCA lead from the **master output** of the master amplifier to the **slave input** of the slave amplifier and set slave / master switch of slave amplifier to **slave**.

3. Connect a speaker cable between the negative speaker terminal on both amplifiers.

4. Connect a speaker cable from the **master** amplifier positive terminal to the subwoofers **positive** terminal.

5. Connect a speaker cable from the **slave** amplifier positive terminal to the subwoofers **negative** terminal.

Note : Use at least 8 awg cable for the connections to the subwoofer.

Minimum impedance 2 Ω

WARNING

Driving multiple speakers at an impedance lower than that recommended by VIBE could cause damage to this amplifier that is not covered by warranty.

Set Up Section

To correctly set the gain control of the amplifier to match that of the source (headunit) use the following setup routine:

Turn the gain control to minimum on the amplifier.
Ensure the bass boost is set to 0 dB.
On the headunit set all crossovers (if applicable) to flat and both bass and treble to zero.
Turn up the source (headunit) to approx 3/4 volume.
Very slowly turn up the gain on the amplifier until distortion can be heard in any of the subwoofers or until the volume reaches an uncomfortable listening level when this is reached turn down the gain control slightly.
The gain control is now set.

The setting of the crossover will depend on what kind of speaker you are installing.
For a subwoofer it is recommended that the crossover is set to Low Pass and the frequency is set to match that of the speakers specifications, or your preferred frequency - this is usually about 60 - 120Hz.

Note:
By using the crossovers correctly you will not only lengthen the life of your speakers but you will also get better performance from them.

To optimise your setup seek the advice of a professional installation engineer or visit your local VIBE audio dealer.

Specification

Model	BD5000.1DSPL-V3
Configuration	Monoblock Amplifier
Dimensions (H x W x D)	2.3" x 9.8" x 25.6" (59mm x 250mm x 650mm)
RMS @ 4Ω 14.4v DC 1%THD	1580 watts
RMS @ 2Ω 14.4v DC 1%THD	2900 watts
RMS @ 1Ω 14.4v DC 1%THD	5500 watts
RMS @ 1Ω 16v DC 1%THD	5700 watts
RMS @ 1Ω 18v DC 1%THD	5900 watts
Maximum Power	11,800 watts
Frequency Response	10Hz - 350Hz
Crossover Type	LP / Subsonic
Crossover Range	10Hz - 250Hz
Input Sensitivity	200mv - 8V
S N/R	85dB
Topology	Ultra Class D
Recommended External Fuse	500A
Operating Voltage	8.5v DC - 18v DC
T.H.D. (4Ω 100Hz)	<0.1%

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Call 09067031420

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