



British Audio



POWERBOX 80.4M

POWERBOX80.4M-V0

POWERBOX 100.4M

POWERBOX100.4M-V0

POWERBOX 150.4M

POWERBOX150.4M-V0

Power box
MINI

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 its 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

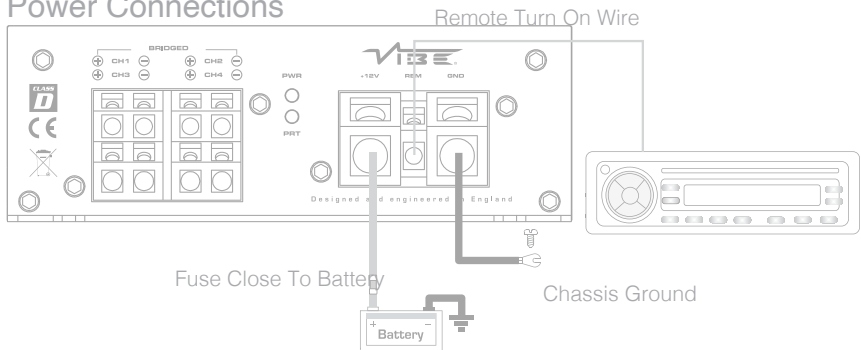
Your VIBE amplifier is designed with a swift installation routine in mind.

Please mount the amplifier in a dry location on a solid surface.

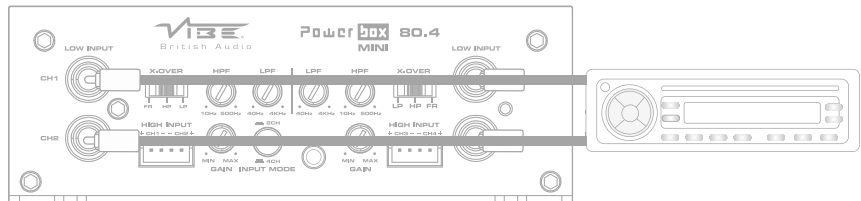
NEVER mount the amplifier upside down as this will cause the amplifier to over heat and will eventually damage the amplifier.

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.

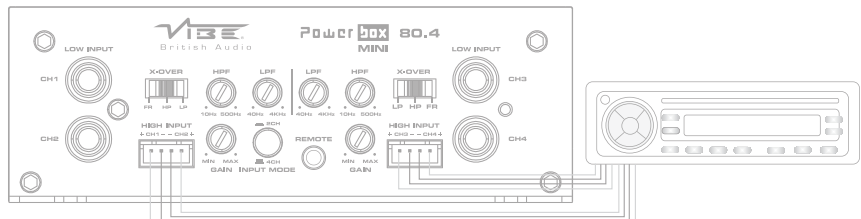
Power Connections



Low Level Input



High Level Input



NOTE : When using high level input it is not necessary to connect the remote turn on wire. Do not connect both high level and low level input at the same time.

Power Cable

- At least 8 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 one fitted in the amplifier) 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 8 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.

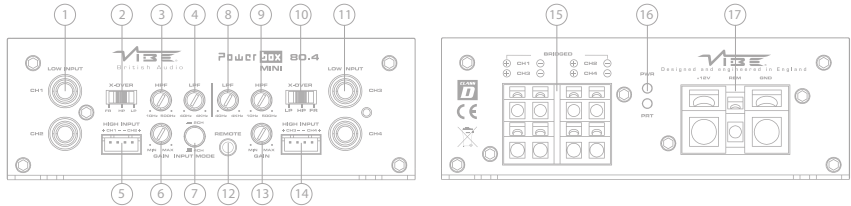
Auto Turn On (High level Input Only)

- The PowerBox amplifiers feature an auto turn on circuit called Autosense.
- This circuit allows the amplifier to switch on and off without a remote turn on wire when using high level input, for low level input (RCA) it will still be necessary to connect the remote turn on wire from the headunit.
- When the connected source (headunit) is turned on the amplifier will turn on automatically, after the connected source (headunit) is turned off the amplifier will shut down.

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. CH1 / CH2 low level input

For connection to any source (head unit) with a low level output to the front channels of the amplifier. This is your RCA output from the source (headunit).

2. CH1 / CH2 crossover mode select switch

This control is used to select the crossover mode of the rear channels of the amplifier. FR is for full range output, HPF is used to limit the amount of low frequency information passed to the speakers and LPF is used to limit the amount of high frequency information passed to the speakers.

3. CH1 / CH2 high pass filter control

The frequency is adjustable between 100Hz and 500Hz.

4. CH1 / CH2 low pass filter control

The frequency is adjustable between 40Hz and 4kHz.

5. CH1 / CH2 high level input

For connection to the speaker output of your source (head unit). This is to be used if the source (headunit) does not have a low level output.

6. CH1 / CH2 gain control

This control is used to match the input signal of the source to the front channels of the amplifier. See the setup section for more details.

7. Input mode switch

This switch is used to select 2 or 4 channel signal input into the amplifier allowing all 4 channels to be driven discretely or from a 2 channel source.

8. CH3 / CH4 low pass filter control

The frequency is adjustable between 10Hz and 500Hz.

9. CH3 / CH4 high pass filter control

The frequency is adjustable between 40Hz and 4kHz.

10. CH3 / CH4 crossover mode select switch

This control is used to select the crossover mode of the rear channels of the amplifier. FR is for full range output, HPF is used to limit the amount of low frequency information passed to the speakers and LPF is used to limit the amount of high frequency information passed to the speakers.

11. CH3 / CH4 low level input

For connection to any source (head unit) with a low level output to the rear channels of the amplifier. This is your RCA output from the source (headunit).

12. CH3 / CH4 Remote input socket

Used to connect the supplied remote gain control for the rear channels.

13. CH3 / CH4 gain control

This control is used to match the input signal of the source to the rear channels of the amplifier. See the setup section for more details.

14. CH3 / CH4 high level input

For connection to the speaker output of your source (head unit). This is to be used if the source (headunit) does not have a low level output.

15. Speaker terminals

Used to connect speaker cables to the amplifier. See the wiring configuration section for more details

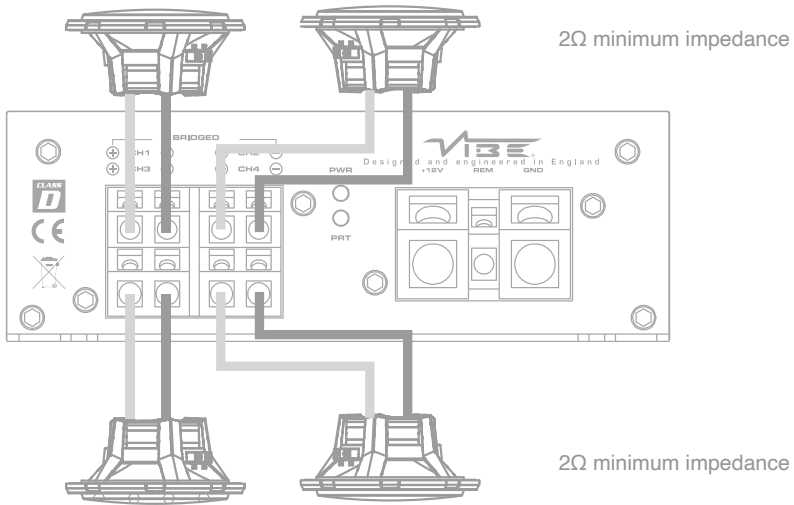
16. Power / protect LED

If the amplifier is operating normally, the GREEN LED will illuminate.
If the amplifier is in protection mode the RED LED will illuminate.

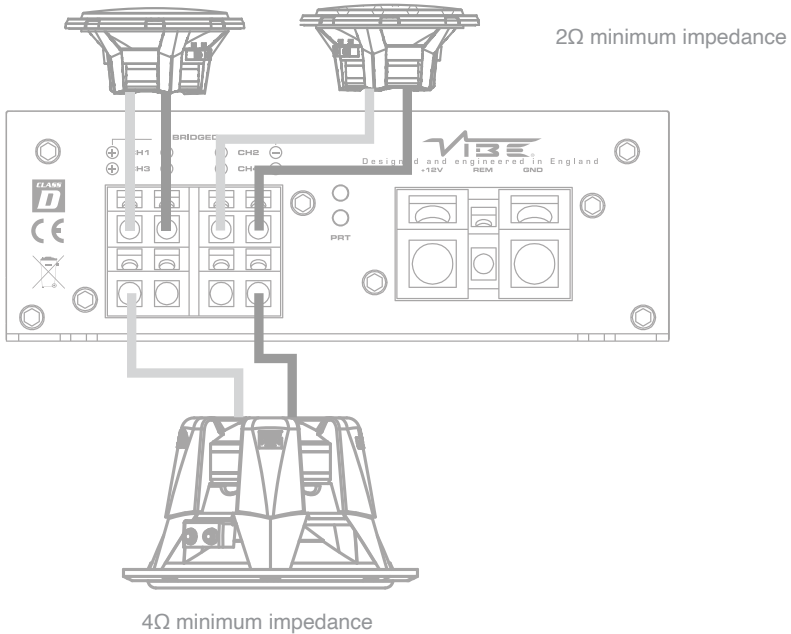
17. Power terminals

Used to connect DC power to the amplifier. See the power connections section for more details

4 Channel Wiring Configuration



Bridged Wiring Configuration



Specification

Model	POWERBOX80.4M-V0	POWERBOX100.4M-V0	POWERBOX150.4M-V0
Configuration	4 channel	4 channel	4 channel
Dimensions (H x W x D)	1.9" x 9.1" x 5.3" (47x 230 x 134mm)	1.9" x 9.1" x 5.3" (47x 230 x 134mm)	1.9" x 15.4" x 5.3" (47x 390 x 134mm)
RMS @ 4Ω Stereo	4 x 80 watts	4 x 100 watts	4 x 150 watts
RMS @ 2Ω Stereo	4 x 120 watts	4 x 120 watts	4 x 240 watts
RMS @ 4Ω Mono	2 x 240 watts	2 x 240 watts	2 x 480 watts
Maximum Power	960 watts	960 watts	1920 watts
Frequency Response	10Hz - 30kHz	10Hz - 30kHz	10Hz - 30kHz
Crossover Type	LP / HP / Flat	LP / HP / Flat	LP / HP / Flat
LP Crossover range	40Hz - 4kHz	40Hz - 4kHz	40Hz - 4kHz
HP Crossover Range	10Hz - 500Hz	10Hz - 500Hz	10Hz - 500Hz
Topology	Mini Class D	Mini Class D	Mini Class D

Setup Guide

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.
- Set all crossovers on the headunit (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 speakers or until the volume reaches an uncomfortable listening level when this is reached, turn the gain control down 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 around 60 - 120 Hz

For a pair of full range speakers it is recommended that the crossover is set to Flat.

The two frequency controls will then have no effect on the amplifiers output and the speaker will receive a full range signal.

Using the high pass crossovers will allow more control of your speakers by removing the bass (low frequencies).

The speakers can now perform at higher volumes with less distortion.

Note: The smaller the speaker, the less bass it can handle.

Adjust the crossover to get the most and best sound from your speakers, the easiest way to do this is by limiting the amount of bass you pass to them.

For a pair of speakers with a passive crossover it is recommended that the crossover is set to high pass and the frequency is set to match that of the speakers specifications. - This is usually around 40 - 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 advise of a professional installation engineer or visit your local VIBE audio dealer.

UK Technical Enquiries

Call 09067031420

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.
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