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INSTRUCTION MANUAL

To ensure maximum performance and safety, please follow this manual. Please retain the manual for future reference after installation.

www.vibeaudio.co.uk

OWNER'S MANUAL

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

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

Attention

An aftermarket audio amplifier will place an additional load on the vehicle's 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, in other words an amplifier fused at 30 amps will have a continuous current draw of 10 amps when playing music, however it may peak at 30 amps on occasions. Please check with the manufacturer as to whether your vehicle can cope with the additional load of your amplifier, in some instances it may be necessary to upgrade the alternator and battery or risk damage to the vehicle's electrical system.

Warning

During the normal use of this amplifier the heatsink may become very hot.
Please do not touch during or immediately after use.

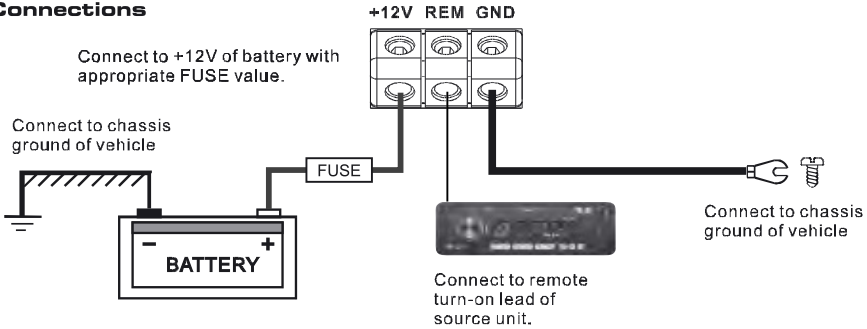
Run in procedure

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

- When your subwoofer is used for the first time naturally like most brand new items it is 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 30 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 speaker 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 punchier, also the output of the subwoofer will increase as the suspension loosens up.
- The subwoofer is like a new 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.

Your VIBE amplifier is designed with a swift installation routine in mind. Please mount in a dry location on a solid surface. NEVER mount upside down, this will cause the amplifier to over heat and will eventually damage the amplifier. Before fixing in place please ensure that there is sufficient air flow around the exterior of the casing, at least two inches is sufficient.

Connections



Power Cable

- At least an 10 gauge cable should be used for both the power and the ground connections 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 chafed or cut.
- It is vital that a fuse / circuit breaker [of at least equal value to the one fitted on the amplifier] is placed inline with the power cable and is no further than eighteen inches away from the battery.
- Please ensure that the fuse is not fitted until the entire installation procedure is complete.
- The two tables below are to help you decide on what cable is correct for you. The first enables you to select the size of cable depending on the length required. The second will help you convert the cable size from American Wire Gauge to Metric if you need to.

Current demand	Length of Run							
	0 - 4 Ft	4 - 7 Ft	7 - 10 Ft	10 - 13 Ft	13 - 16 Ft	16 - 19 Ft	19 - 22 Ft	22 - 28 Ft
0-20 amps	14 AWG	12 AWG	12 AWG	10 AWG	10 AWG	8 AWG	8 AWG	8 AWG
20-35 amps	12 AWG	10 AWG	8 AWG	8 AWG	6 AWG	6 AWG	6 AWG	4 AWG
35-50 amps	10 AWG	8 AWG	8 AWG	6 AWG	4 AWG	4 AWG	4 AWG	4 AWG
50-65 amps	8 AWG	8 AWG	6 AWG	4 AWG	4 AWG	4 AWG	4 AWG	2 AWG
65-85 amps	6 AWG	6 AWG	4 AWG	4 AWG	2 AWG	2 AWG	2 AWG	0 AWG
85-105 amps	6 AWG	6 AWG	4 AWG	2 AWG	2 AWG	2 AWG	2 AWG	0 AWG
105-125 amps	4 AWG	4 AWG	4 AWG	2 AWG	0 AWG	0 AWG	0 AWG	0 AWG
125-150 amps	2 AWG	2 AWG	2 AWG	0 AWG	0 AWG	0 AWG	0 AWG	0 AWG

AWG Number	Inch	mm	mm ²
0 AWG	0.325	8.25	53.5
1 AWG	0.289	7.35	42.4
2 AWG	0.258	6.54	33.6
3 AWG	0.229	5.83	26.7
4 AWG	0.204	5.19	21.1
5 AWG	0.182	4.62	16.8
6 AWG	0.162	4.11	13.3
7 AWG	0.144	3.66	10.5
8 AWG	0.128	3.26	8.36
9 AWG	0.114	2.91	6.63
10 AWG	0.102	2.59	5.26

Ground Cable

- The ground cable needs to carry the same current as the power cable. At least an 10 gauge cable should be used.
- The amplifier ground should be connected directly to the chassis of the vehicle, to bare metal, remove paint with sand paper if required.
- The cable length should be kept to an absolute minimum.
- It is not recommended that you connect the ground cable to the vehicle's seat belt anchor point.

Remote Turn On

- A minimum of 18 gauge cable should be used for this connection.
- The cable should be run with exactly the same care and attention as the power cable and taken back to the source (headunit) and joined to the remote cable provided.
- If the source (headunit) does not have a remote turn on cable then a 12v supply should be used. This will require a switch to be fitted inline to enable the amplifier to be turned on and off. Remember that if this switch is left on you will flatten the car battery.

RCA Cables

- Depending on the model number of your amplifier and the number of speakers you wish to power you will have to run either one or two 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.

For optimal performance VIBE recommends using only VIBE CriticalLink cable and connectors using anything less can seriously compromise the performance of your amplifier. See back page for details.

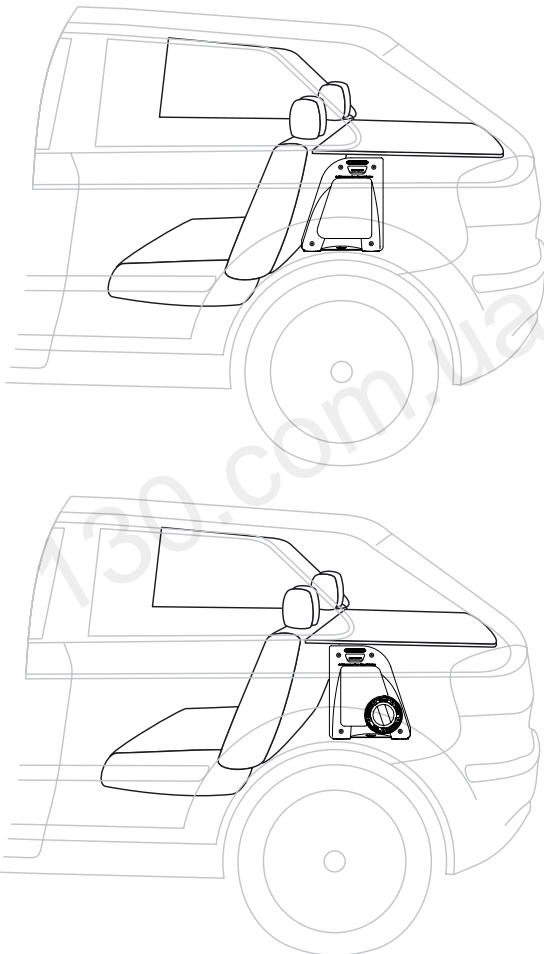
Installation

The most common place to mount a bass enclosure is in the luggage compartment of the vehicle.

Where in the luggage compartment it is mounted will have an effect on the sound produced allowing the user to tailor the sound to best suit their musical tastes.

For example if the enclosure is mounted facing the rear bumper, the bass produced will be noticeably deeper than if it is fired into the rear seat.

Do not be afraid to experiment with positioning as a little time and effort can yield great improvements in sound.



NOTE - when you have chosen your mounting position please ensure that the enclosure is securely mounted in place and cannot move or come into contact with objects in the luggage area as damage to the enclosure or subwoofer will not be covered under warranty.

It is also advisable to use additional luggage straps to secure the enclosure.

Sealed or ported configuration

Ported enclosures offer a significant increase in output compared to sealed enclosures, this is because the port in the enclosure interacts with the air in the enclosure and the woofer to increase output and reduce cone movement around the tuning frequency.

Ported enclosures are typically two or three times louder than sealed enclosures and have a bump in the frequency response making them the ideal choice for dance, R&B, electronically produced music and high SPL applications.

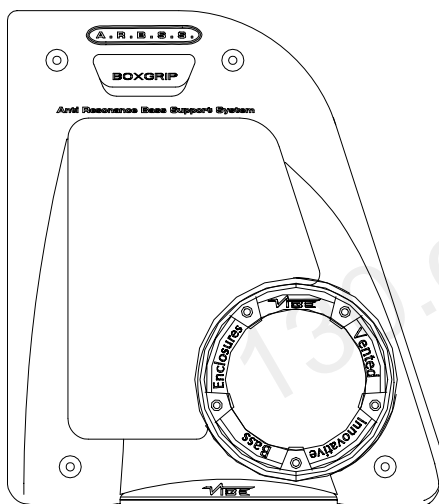
The enclosures are supplied with PortPlugs™, these give the user the option to use the enclosure as a sealed enclosure.

Sealed enclosures are also known as acoustic suspension enclosures because the air in the box acts like a brake to control the movement of the woofer cone.

Sealed enclosures offer high power handling, excellent transient response and smooth low end roll off making them the ideal choice for live music, rock and jazz.

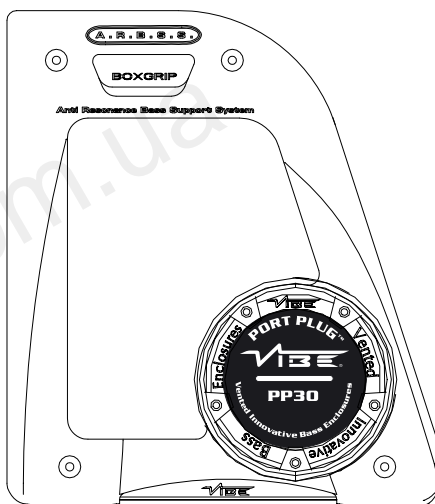
Ported configuration

PortPlug removed



Sealed configuration

PortPlug inserted



FastPlug (optional)

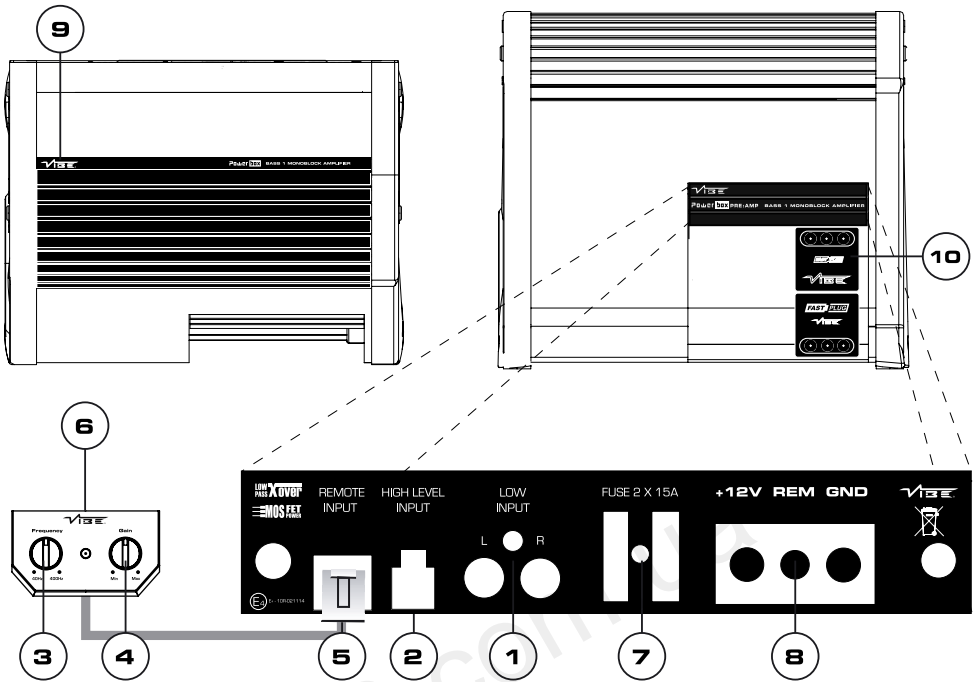
The VIBE FastPlug has been designed and developed by VIBE engineers to provide safe and easy removal of your active bass enclosure.

The enclosure has a recess specifically for a FastPlug to be fitted making installation of the FastPlug neat and simple.

For details of the FastPlug, please refer to the back page of this manual or visit: www.vibeaudio.co.uk/shop



Terminals & controls



- 1. Low Level Input / Output**
Connect the left and right RCA leads from the source (headunit) to these input terminals. The output terminals can be used to supply signal to another amplifier.
- 2. High Level Input**
If your source does not support RCA outputs connect the speaker outputs to the amplifier using the high level input terminals. This must not be used at the same time as the low level inputs.
- 3. XOVER Frequency**
Adjust the crossover frequency using this knob. The frequency ranges from 40Hz to 200Hz.
- 4 Gain**
Adjust the gain range of the amplifier between 0.25v and 6v.
- 5 Remote Control Port**
Connect the remote control here. This is used to adjust the amplifier from the front of the car.
- 6 Remote Control**
Allows you to adjust the frequency and the gain from the front of the car.
- 7 Fuse**
Standard blade fuse to protect the amplifier. Always replace this with one of the same value. 15A x 2.
- 8 Power/Remote/Ground terminals**
+12V – connect to the positive feed from the battery.
Rem – Connect the remote output from the source (CD player) to this terminal. The voltage must be between 12V and 15V DC.
GND – The ground terminal to earth the amplifier. Connect this to the chassis of the vehicle.
- 9 Power / Protect Light**
During normal operation the VIBE logo will illuminate WHITE.
If the amplifier is in protection the VIBE logo will illuminate RED.
- 10 FastPlug (optional)**
Allows quick and easy installation and removal of the bass enclosure.

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.
- 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 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 frequency is set to match that of the subwoofers specifications, or your preferred frequency - this is usually about 60 Hz - 120 Hz.

Note:

By using the crossovers correctly you will not only lengthen the life of your subwoofers 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

LiteAir Compact 12

Part Number:	LiteAir C12 - V1
Peak Power:	1350 watts
RMS Power:	450 watts
Height:	360mm
Width:	375mm
Depth:	315mm

Troubleshooting

- Before removing the amplifier, refer to the list below and follow the suggested procedures.
- Always test the speakers and confirm that they are wired correctly first.
- If in any doubt get help from your local VIBE dealer.

Amplifier Will Not Power Up

- Check for good ground connections. Ensure ground cable is connected directly to bare metal and not a painted surface.
- Using a multimeter check that remote terminal has at least 12V DC.
- Using a multimeter check that there is battery voltage of at least 10.5v DC on the positive terminal.
- Check all fuses.
- Check that the protection light is not illuminated. If it is lit, shut off the amplifier by disconnecting for thirty seconds and then turning it back on.

Protection LED Illuminates When Amplifier Is Powered Up

- Check for shorts on all speakers wires. (i.e. no speaker wires should be joined together and no speaker wires should be touching the car's chassis)
- The amplifier is designed to shut down automatically when the unit's temperature goes above 80 degrees. If the amplifier feels very hot then this may be the reason for the amplifier not starting. Allow to cool down try again.
- Remove the speaker wires and reset the amplifier. If the protection LED still comes on then the amplifier is damaged. This damage may have been caused by either failure to follow these setup guidelines or abuse.

Amplifier Gets Very Hot

- Check the minimum speaker impedance for the amplifier is correct.
- Check for shorts on all speakers wires. (i.e. no speaker wires should be joined together and no speaker wires should be touching the car's chassis)
- Check that there is good airflow around the amplifier. In some applications an external fan may be required.

Blown Fuse(s)

- Check both positive supply and ground for shorts.
- Check that the positive wire is connected to the positive terminal on the amplifier.
- Check that the negative wire is connected to the ground terminal on the amplifier.
- Ensure that the correct rated fuse is fitted: 2 x 15 amp fuse

Distorted Sound

- Check the gain control is not set too high. If the subwoofer sounds distorted turn down the gain until the sound is clear.
- Check that all crossover frequencies are correct. See Setup section for more details.
- Check for shorts on all speaker wires.
- Check all speakers are wired correctly. With the correct polarity being observed on each connection.



In order to protect your purchase and aid your warranty please fill in the following form and keep it safe for your future reference:

Model Number:

Serial Number:

Purchased From:

Date of Purchase:

KEEP IT SAFE
Staple your receipt here:

Limited Warranty

All VIBE products carry a full twelve months warranty, valid from the date of the original receipt / proof of purchase. In order to validate this warranty, the warranty card should be returned to VIBE within seven days of the original purchase date. The original receipt and packaging should also be retained for this twelve month period.

If at any stage during the warranty period you have a problem with the product then it should be returned to the point of purchase, with proof of purchase in its original packaging, complete with no items missing.

If the store is unable to fix the product it may have to be returned to VIBE this process takes around 7 working days.

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

www.vibeaudio.co.uk/warranty

A written version can also be obtained from
VIBE warranty Dept, PO BOX 11000, B75 7WG

Technical enquires
call 09067031420

call cost 50p per minute Call costs correct at date of publication (02/02/08) Hours of business 9.00am - 5.30pm all calls are recorded for training purposes MIDBASS Distribution PO Box 11000, B75 7WG

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