



FLI

ACTIVE ENCLOSURE

**INSTRUCTION &
INSTALLATION MANUAL**

www.fliaudio.co.uk



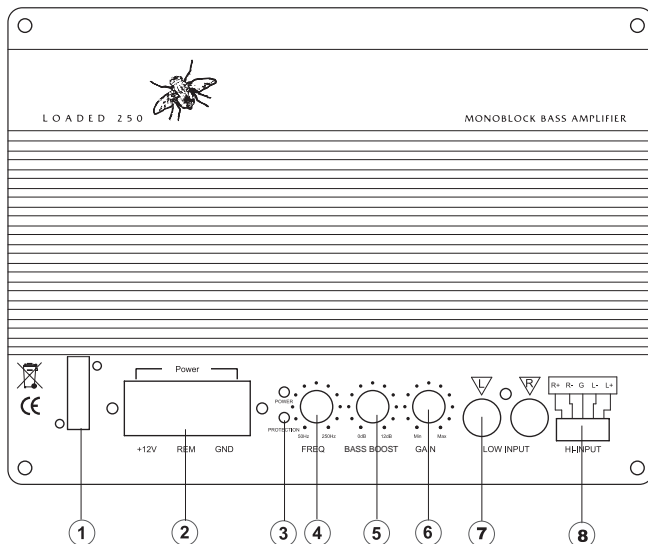
For best connections and performance use only FLI cabling and accessories

Thank you for purchasing this FLI active enclosure. It will provide you with a trouble free usage providing you follow a few simple guidelines.

Mounting Guidelines

Your FLI enclosure is designed with a swift installation routine in mind. Please mount it in a dry location on a solid surface. NEVER mount the enclosure at such an angle that the amplifier is upside down, this will cause the amplifier to over heat and will eventually damage the entire unit.

Connections



For optimum performance use a 10 gauge FLI wiring kit. It can be purchased from the FLI audio website with next day delivery www.fliaudio.co.uk

1. Fuse

Please ensure a 20 amp fuse is fitted, never fit a fuse with a rating higher than 20 amps.

2. power 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 chaffed 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 isn't fitted until the entire installation procedure is complete.

Ground Cable

The ground cable needs to carry the same current as the power cable. Again at least and 10 gauge cable should be used. The amplifier ground should be connected directly to the chassis of the vehicle, to bare metal. (not painted surface) The cable length should be kept to an absolute minimum. It is not recommended that you connect the ground cable to the vehicles seatbelts.

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 and joined to the remote cable provided on the head unit.

If the 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.

NOTE: Remember that if this switch is left on you will flatten the car battery.

3. power/protection LED's

When the amplifier is wired and installed correctly the green LED on the front of the amplifier will illuminate to indicate the amplifier is operating correctly.

If the amplifier is incorrectly wired or an abnormal situation occurs such as speaker cables shorting the red protection LED will illuminate.

4. crossover frequency control

This will allow you to set the frequency at which the amplifiers low pass filter will take affect. This is variable from 45 – 250 Hz. 50 Hz will produce only low frequencies (deep bass), 250 Hz will produce low and higher, more punchy bass response.

5. bass boost

This will allow you to boost the bass at a frequency of 70 Hz and is variable from 0 – 12db Please note – by boosting +12db you are asking the amplifier to work 8 times harder.

6. gain control

Used to match the input signal of the headunit to the amplifier. See the setup section for more details. Please note – the gain control is not a volume control it is a level match.

7. low level input

For connection to any source with a low level output. Connect this to the RCA outputs on your head unit.

8. High level inputs

For connection to a source unit without low level outputs. Connect this to The front or rear speaker wires ensuring that the polarity is correct.

Set Up Section

Gain Control Setting

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 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 down the gain control slightly.

The gain control is now set.

Crossover Setting

All FLI active enclosures come with a built in Frequency Control. This will allow you to set the frequency at which the amplifier filter will take affect. It is variable from 40 Hz - 250 Hz. 40 Hz will produce only low frequencies, very deep bass. Whilst 250 Hz will produce low and higher punchy bass frequencies. In the correct set up the bass should not be overly prominent, although some users may wish to have a bigger bass presence.

To set this correctly follow the following routine:

- Firstly set the gain control correctly as described above.
- Play a known piece of dynamic music through the entire system.
- Use the Frequency Control to blend the frequencies from the subwoofer into the rest of the vehicle so that the bass coming from the enclosure disappears or blends in with the rest of the car speakers.

The crossover is now set.

Troubleshooting

- Before removing the amplifier, refer to the list below and follow the suggested procedures.
- If in any doubt get help from a car audio installation expert or qualified auto electrician.

Amplifier Will Not Power Up. Power On Indicator Not Illuminated

- ✓ Check for good ground connections. Ensure its connected directly to bare metal and not a painted surface.
- ✓ Using a multimeter check that remote terminal has at least 7V DC.
- ✓ Using a multimeter check that there is battery voltage on the positive terminal. Check all fuses.

Fuse Blown

- ✓ 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 a 20 amp fuse is fitted:

Features	
Variable Gain Control	
40 – 250 Hz variable 12 dB crossover	
Specification	
Input sensitivity	40 mV
Continuous Power	10 V – 14.4 V
Signal / Noise Ratio	> 100dB



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

www.fliaudio.co.uk

Model Number:

Serial Number:

Purchased From:

Date of Purchase:

KEEP IT SAFE
Staple your receipt here:





Limited Warranty

All FLI goods are covered by a full twelve months warranty. Valid from the date of the original receipt and proof of purchase. In order to validate this warranty, the warranty card should be returned to FLI within seven days of the original purchase date. The original receipt and packaging should also be kept 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 in its original packaging, complete and with no items missing.

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

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

www.fliaudio.co.uk/warranty

A written version can also be obtained from
FLI warranty department
PO Box 11000
B75 7WG

Copyright

All content included in this manual such as text, graphics, logos, icons, images data, the selection and arrangement thereof, are the property of FLI Audio (herein referred to as "FLI", "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.

Trademarks

FLI Frequency™, FLI Integrator™, FLI Loaded™, FLI Trap Passive™, FLI Trap Active™, and FLI Trap Twin™ and all stylised representations of product names, or the abbreviations of product names, as logos are all trademarks of FLI. Graphics and logos are trademarks or trade dress of FLI Audio or its subsidiaries.

FLI's trademarks and trade dress may not be used in connection with any product or service that is not FLI's, in any manner that is likely to cause confusion among customers or in any manner that disparages or discredits FLI. All other trademarks not owned by FLI 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 FLI or its subsidiaries.

We reserve the right to make needed changes or improvements to the products contained in this document, without informing the consumer advance.

copyright 2006