



EDGE

POWER AMPLIFIERS

OWNERS MANUAL
EDA12000.1D-E6

Owners Manual

Congratulations on purchasing your EDGE 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 EDGE, 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, In the case of the EDA12000.1D amplifier the peak current draw is 900 amps which means that the continuous current draw will be around 300 amps.

No OEM charging system will cope with the current demand of this bass amplifier. Multiple additional batteries and alternator upgrades will be essential to ensure the correct and reliable operation of this amplifier.

EDGE recommends a minimum of 3 additional batteries and a 300A alternator.

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 EDGE 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 EDGE.

A full description of EDGE warranty information can be found on our website:

www.edgecaraudio.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 EDGE dealer or distributor concerning specific procedure for your country's warranty policies. www.edgecaraudio.co.uk

Warning

EDGE 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

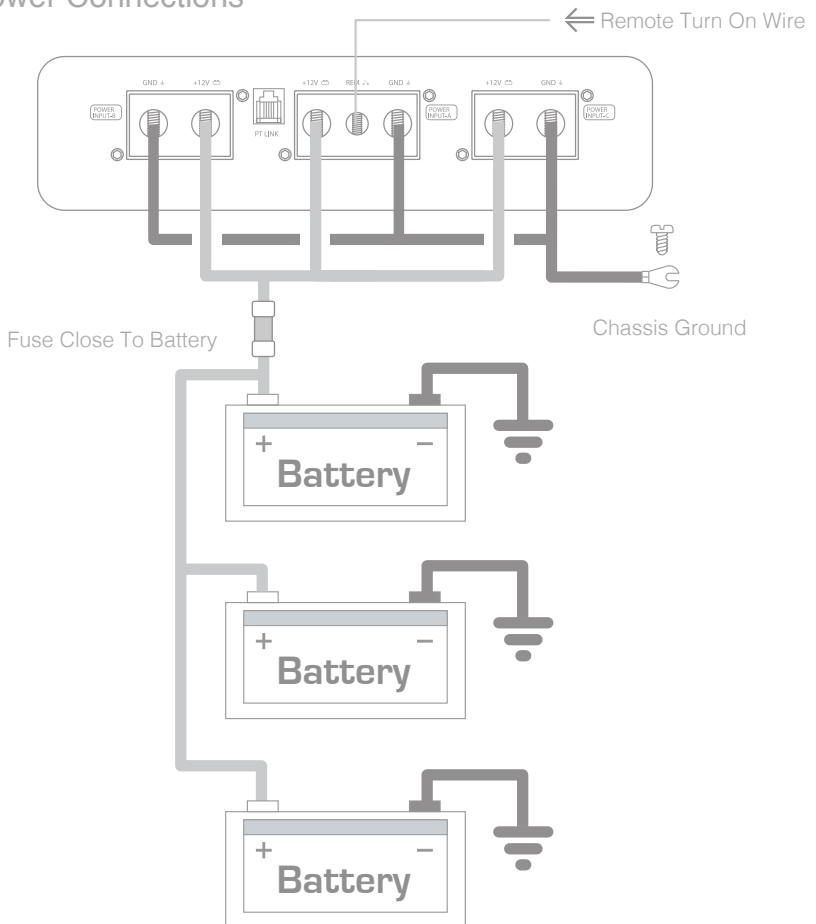
Your EDGE amplifier is designed with a swift installation routine in mind.

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



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 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.

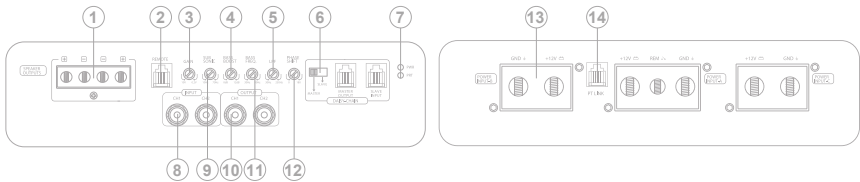
Ground Cable

- At least 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 number of your amplifier and the number of speakers you wish to power you will have to run either one or two or 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. Speaker terminals

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

2. Remote input socket

Used to connect the remote level control to the amplifier.

3. Gain control

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

4. Bass boost Control

This control is used to add bass boost to the amplifier and is adjustable between 0dB and +12dB.

5. Low Pass Filter (LPF)

This control is used to set the crossover frequency for the amplifier when LPF is selected. The frequency is adjustable between 30Hz and 250Hz.

6. Daisy chain controls

• Mode select switch

Used to select MASTER or SLAVE operation for the amplifier.

• Master output

Used to connect to the SLAVE INPUT socket of the second EDA12000.1D amplifier when used as a strapped pair. See strapped amplifier configuration for more details.

• Slave input

Used to connect to the MASTER OUTPUT socket of the first EDA12000.1D amplifier when used as a strapped pair. See strapped amplifier configuration for more details.

7. 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.

8. Low level input

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

9. Subsonic filter

This control is used to set the subsonic filter which is used to limit the very low frequency information passed to the subwoofer. The frequency is adjustable between 10hz and 70Hz.

10. Low level output

RCA output used to connect an additional amplifier or audio device.

11. Bass boost frequency

This control is used to set the frequency for the bass boost and is adjustable between 30Hz and 90Hz.

12. Phase adjust

This control is used to set the speaker output phase for the amplifier and is adjustable between 0° and 180°

13. Power terminals

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

14. Protection link

When connecting a pair of EDA12000.1D amplifiers as Master and Slave it is necessary to connect the supplied cable between the PT link sockets of the amplifiers to effectively sync the protection circuits of both amplifiers.

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.

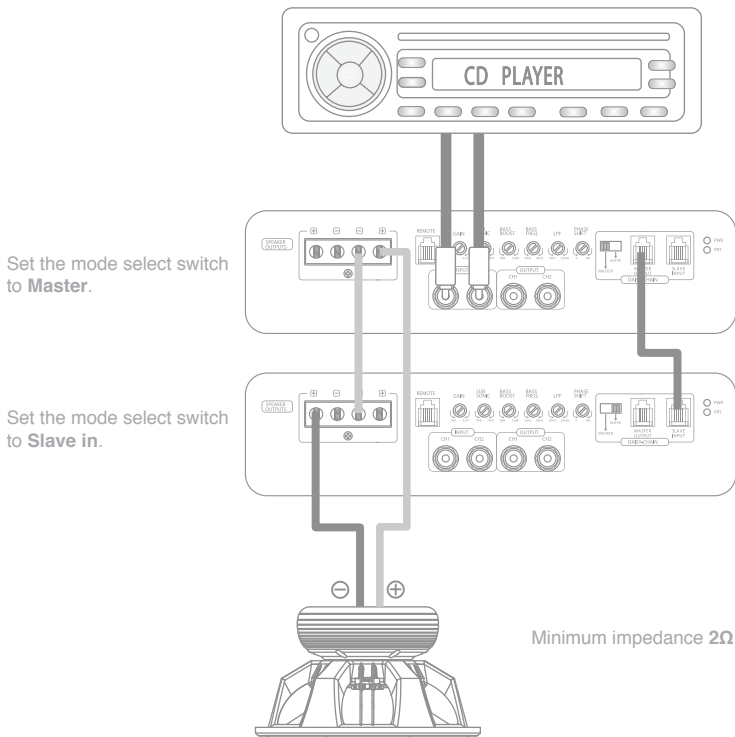
Amplifier Strapping

Two EDGE EDA12000.1D amplifiers are capable of being strapped together to deliver the combined output of both amplifiers into a single channel.

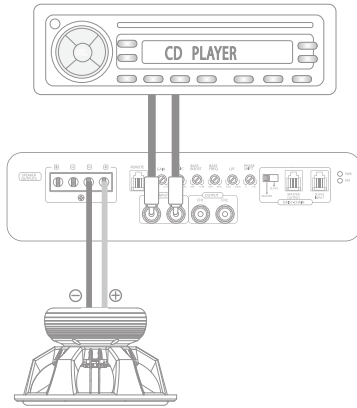
NOTE: only identical amplifiers may be strapped together.

Strapping procedure

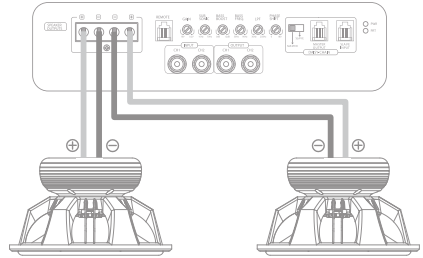
- Connect the RCA input from the source unit to the left and right RCA input of the master amplifier.
- Connect the supplied lead between the **Master out** socket of the master amplifier and the **Slave in** Socket of the slave amplifier.
- Set the input mode switch of the master amplifier to **Master**.
- Set the input mode switch of the slave amplifier to **Slave in**.
- Connect speaker cable between the negative speaker output of the master amp and the negative speaker output of the slave amplifier.
- The master positive speaker output is to be connected to the subwoofer positive terminal.
- The slave positive speaker output is to be connected to the subwoofer negative terminal.



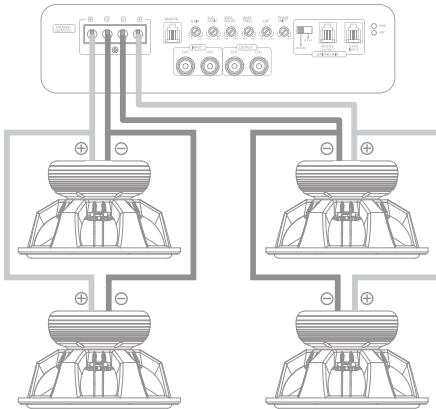
Single Amplifier Configuration



Minimum impedance 1Ω



Minimum impedance 1Ω



Minimum impedance 1Ω

WARNING

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

Specification

Model	EDA12000.1D-E6
Configuration	Competition Monoblock
Dimensions (Height x Width x Depth)	3" (76mm) x 37.4" (950mm) x 11.8" (299mm)
RMS @ 4Ω Mono 14.4v 1% THD	2650 watts
RMS @ 2Ω Mono 14.4v 1% THD	5200 watts
RMS @ 1Ω Mono 14.4v 1% THD	11,000 watts
RMS @ 1Ω Mono 16.v 1% THD	12,000 watts
Maximum Power	24,000 watts
Frequency Response	10Hz - 20kHz
Crossover Type	LP / Subsonic
Crossover Range	10Hz - 250Hz
Bass Boost Range	30Hz - 90Hz
Recommended Fuse	900 amps

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.
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