

# EDGE



## POWER AMPLIFIERS

EDSH4000.1D-E6

EDSH7000.1D-E6

EDSH10000.1D-E6

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## 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.

### 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 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 EDGE.

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

**[www.edgecaraudio.co.uk](http://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](http://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

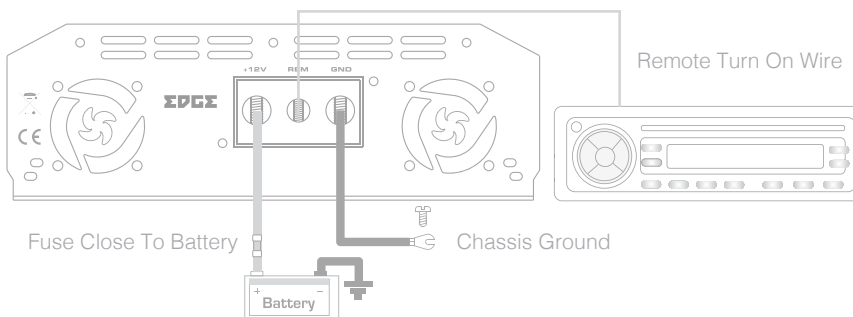
Your EDGE amplifier is designed with a swift installation routine in mind.

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

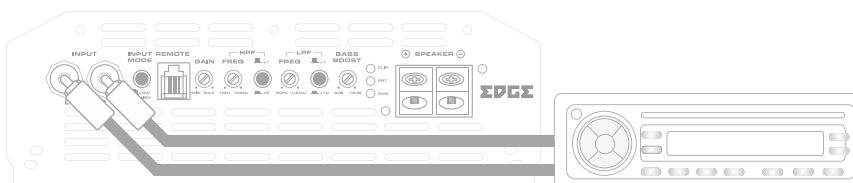
NEVER mount the amplifier upside down as this will cause the amplifier to over heat and will eventually damage the amplifier.

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



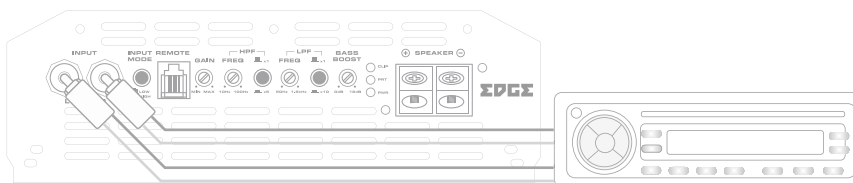
## Low Level Input



## High Level Input

Centre Pin : Positive

Outer : Negative



## 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 chafed 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 40cm (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.

### **Note:**

EDSH7000.1D-E6 will require at least two 0 gauge power and ground connections via an adaptor (not supplied) and EDSH10000.1D-E6 will require at least three 0 gauge power and ground connections via an adaptor (not supplied).

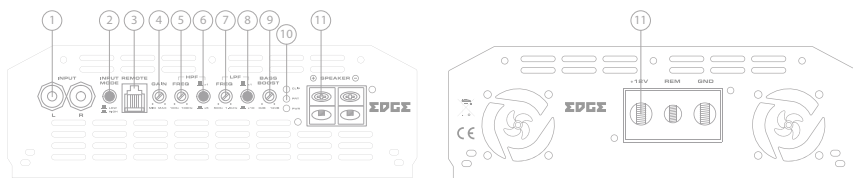
## Remote Turn On Cable

- 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

- 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 the opposite side of the car to the previously installed power cables if possible, to avoid the cable picking up interference.

## Terminals And Connections



### 1. High / Low level input

For connection to any source (headunit). For high level input Connect an RCA plug to the speaker output of the headunit making sure that the positive wire is connected to the centre pin. Low level input is your RCA output from the source.

Note : Please ensure that the input mode select switch is set to the appropriate mode for your closed connection.

### 2. CH Input mode select switch

This switch is used to select the input mode for the amplifier. HIGH is for speaker level connection to the headunit and LOW is for low level (RCA) connection to the headunit.

### 3. Remote level control port

For connection to the supplied remote level control for the amplifier.

### 4. Gain control

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

### 5. Low Pass Filter (LPF) Crossover frequency control

This control is used to set the crossover frequency for the low pass filter of the amplifier.  
The frequency is adjustable between 10Hz and 100Hz.

### 6. Low Pass Filter (LPF) frequency multiplier switch

This switch is used to select the frequency multiplier for the low pass filter.  
x1 and x5 settings are selectable.

### 7. High pass Filter (HPF) Crossover frequency control

This control is used to set the crossover frequency for the high pass filter of the amplifier.  
The frequency is adjustable between 50Hz and 1.5kHz.

### 8. High Pass Filter (HPF) frequency multiplier switch

This switch is used to select the frequency multiplier for the High pass filter.  
x1 and x10 settings are selectable.

### 9. Bass boost control

This control is used to add bass boost to the amplifier and is variable between 0dB and +12dB and is centered at 45hz

### 10. Clip / 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.

If the amplifier is being driven into clipping, the ORANGE LED will illuminate.

## Terminals And Connections

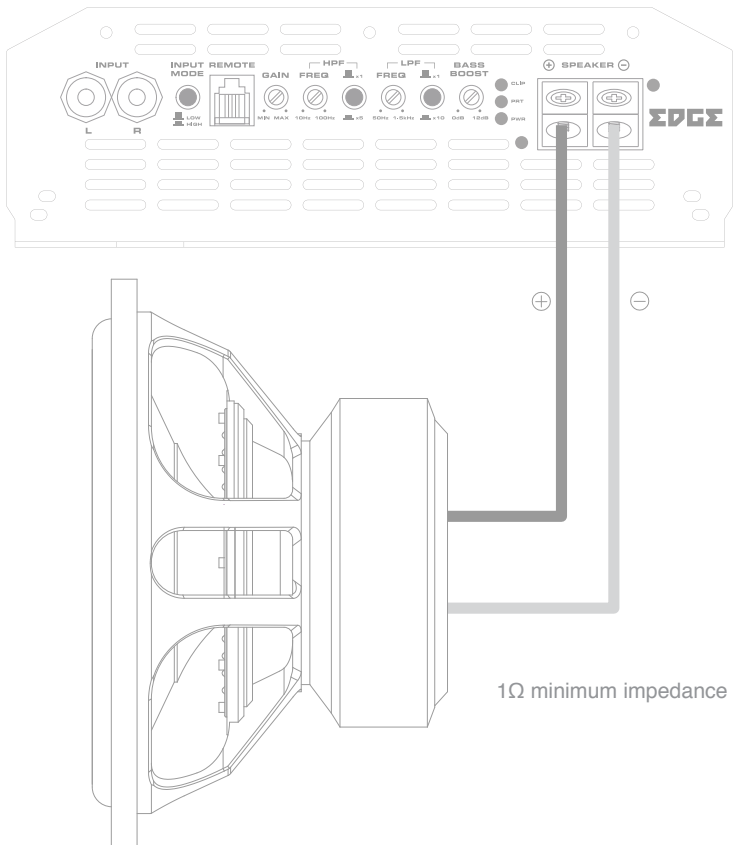
### 11. Speaker terminals

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

### 12. Power terminals

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

## Wiring Configuration



## 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.
- 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

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.

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.



## Specification

Model	EDSH4000.1D-E6	EDSH7000.1D-E6	EDSH10000.1D-E6
Configuration	Full Range Monoblock	Full Range Monoblock	Full Range Monoblock
Dimensions (H x W x D)	2.8" x 9.1" x 12.6" (70mm x 230mm x 320mm)	2.8" x 9.1" x 16.1" (70mm x 230mm x 410mm)	2.8" x 9.1" x 21.3" (70mm x 230mm x 540mm)
RMS @ 4Ω (14.4v 1% THD)	1650 watts	3000 watts	3470 watts
RMS @ 2Ω (14.4v 1% THD)	2800 watts	4900 watts	7200 watts
RMS @ 4Ω (14.4v 1% THD)	4000 watts	7000 watts	10,500 watts
Maximum Power	8000 watts	14,000 watts	21,000 watts
Frequency Response	5Hz - 20kHz	5Hz - 20kHz	5Hz - 20kHz
Signal To Noise Ratio	>90dB	>90dB	>90dB
Crossover Type	LP / HP	LP / HP	LP / HP
Crossover Range	10Hz - 15kHz	10Hz - 15kHz	10Hz - 15kHz
Input Sensitivity	200mv - 8V	200mv - 8V	200mv - 8V
Efficiency	92%	92%	92%
Operating Voltage	9v DC - 15v DC	9v DC - 15v DC	9v DC - 15v DC
Recommended Fuse Rating	300A	600A	1000A
Topology	Ultra Class D	Ultra Class D	Ultra Class D

## 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.  
MIDBASS Distribution  
PO Box 11000  
B75 7WG



## International Technical Enquiries

For international technical support please contact the distribution agent for your country.

Please visit [www.edgecaraudio.co.uk](http://www.edgecaraudio.co.uk) for more details.



Notes :

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