



EDGE

POWER AMPLIFIERS

OWNERS MANUAL

EDA4500.2AB-E6

EDA2000.4AB-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.

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

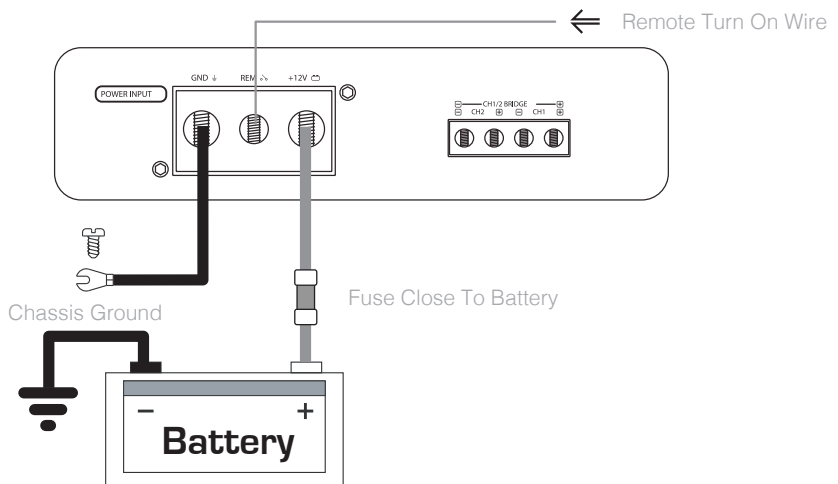
Your EDGE amplifier is designed with a swift installation routine in mind.

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

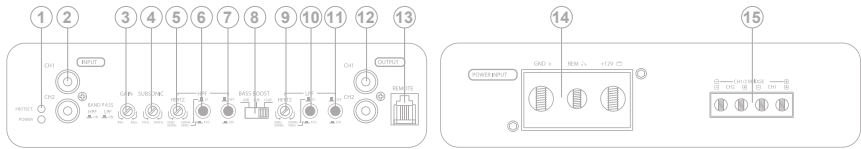
- At least 0 gauge cable should be used for the ground connection to the amplifier.
- The amplifier ground should be connected directly to the chassis of the vehicle, to bare metal.
- The cable length should be kept to an absolute minimum.
- It is not recommended that you connect the ground cable to 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.

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Terminals And Connections



1. 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.

2. Low level input

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

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. 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 500Hz.

5. High Pass Filter (HPF)

This control is used to set the crossover frequency for the amplifier when HPF is selected. The frequency is adjustable between 50Hz and 500Hz (500Hz and 5kHz when 10x frequency multiplier is engaged)

6. High Pass Filter (HPF) Frequency multiplier switch

This Switch is used to select 1x and 10x frequency multiplier for the High Pass Filter.

7. High Pass Filter (HPF) select switch

This Switch is used to turn the High Pass Filter (HPF) on or off.

8. Bass boost Control

This control is used to add bass boost centred at 45Hz to the amplifier with 0dB, 6dB and +12dB selectable.

9. 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 50Hz and 500Hz (500Hz and 5kHz when 10x frequency multiplier is engaged)

10. Low Pass Filter (LPF) Frequency multiplier switch

This Switch is used to select 1x and 10x frequency multiplier for the Low Pass Filter.

11. Low Pass Filter (LPF) select switch

This Switch is used to turn the Low Pass Filter (LPF) on or off.

12. Low level output

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

13. Remote input socket

Used to connect the remote level control to the amplifier.

14. Power terminals

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

15. Speaker terminals

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

Note:

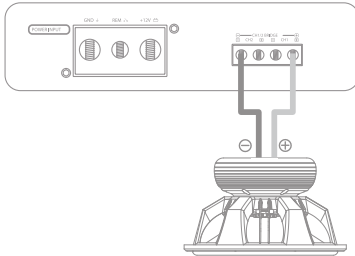
For bandpass operation both HPF and LPF switches must be engaged.

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Wiring Diagram

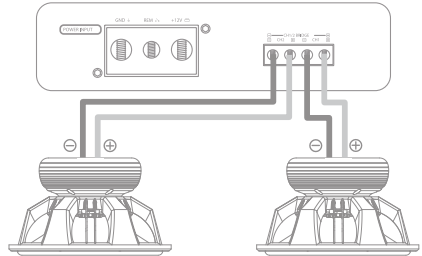
Bridged operation

Minimum speaker impedance 2Ω



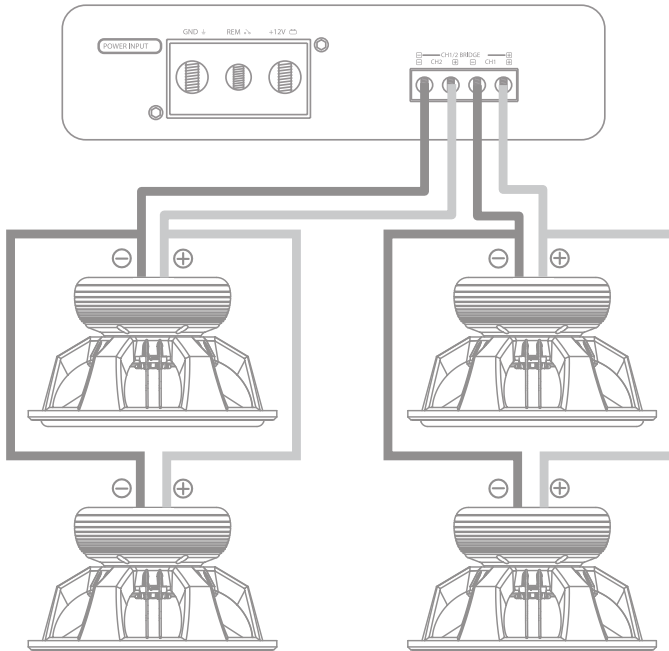
Stereo operation

Minimum speaker impedance 1Ω



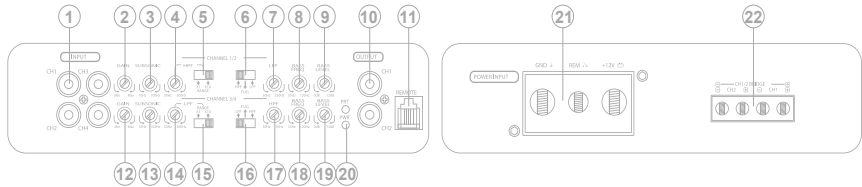
Multi speaker operation

Minimum speaker impedance 2Ω



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Terminals And Connections



1. Low level input

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

2. CH1 / 2 Gain control

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

3. CH1 / 2 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 100Hz.

4. CH1 / 2 High Pass Filter (HPF)

This control is used to set the crossover frequency for the amplifier when HPF is selected. The frequency is adjustable between 50Hz and 500Hz (500Hz and 5kHz when 10x frequency multiplier is engaged)

5. CH1 / 2 High Pass Filter (HPF) Frequency multiplier switch

This Switch is used to select 1x and 10x frequency multiplier for the High Pass Filter.

6. CH1 / 2 Crossover mode select switch

This Switch is used to set the crossover mode to HPF, FULL or LPF operation.

7. CH1 / 2 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 50Hz and 500Hz (500Hz and 5kHz when 10x frequency multiplier is engaged)

8. CH1 / 2 Bass boost frequency

This control is used to set the bass boost frequency which is adjustable between 35Hz and 120Hz

9. CH1 / 2 Bass boost Control

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

10. Low level output

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

11. Remote input socket

Used to connect the remote level control to the amplifier.

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Terminals And Connections (Cont)

12. CH3 / 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.

13. CH3 / 4 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 100Hz.

14. CH3 / 4 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 50Hz and 500Hz (500Hz and 5kHz when 10x frequency multiplier is engaged)

15. Low Pass Filter (LPF) Frequency multiplier switch

This Switch is used to select 1x and 10x frequency multiplier for the Low Pass Filter.

16. CH3 / 4 Crossover mode select switch

This Switch is used to set the crossover mode to HPF, FULL or LPF operation.

17. CH3 / 4 High Pass Filter (HPF)

This control is used to set the crossover frequency for the amplifier when HPF is selected. The frequency is adjustable between 50Hz and 1kHz (500Hz and 10kHz when 10x frequency multiplier is engaged)

18. CH3 / 4 Bass boost frequency

This control is used to set the bass boost frequency which is adjustable between 35Hz and 120Hz

19. CH1 / 3 Bass boost Control

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

20. 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.

21. Power terminals

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

22. Speaker terminals

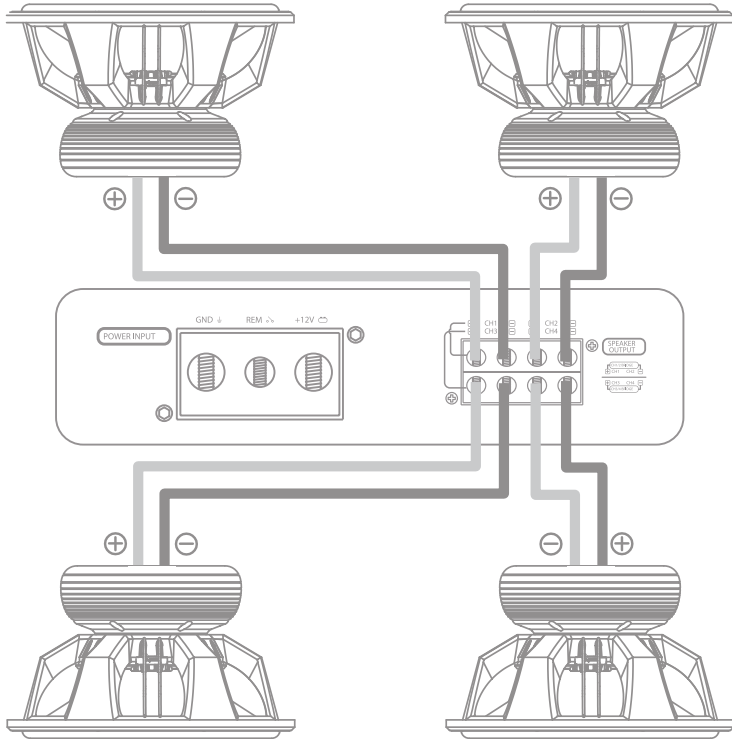
Used to connect speaker cables to the amplifier. See the wiring configuration section for more details.

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Wiring Diagram

4 Channel operation

Minimum speaker impedance 2Ω

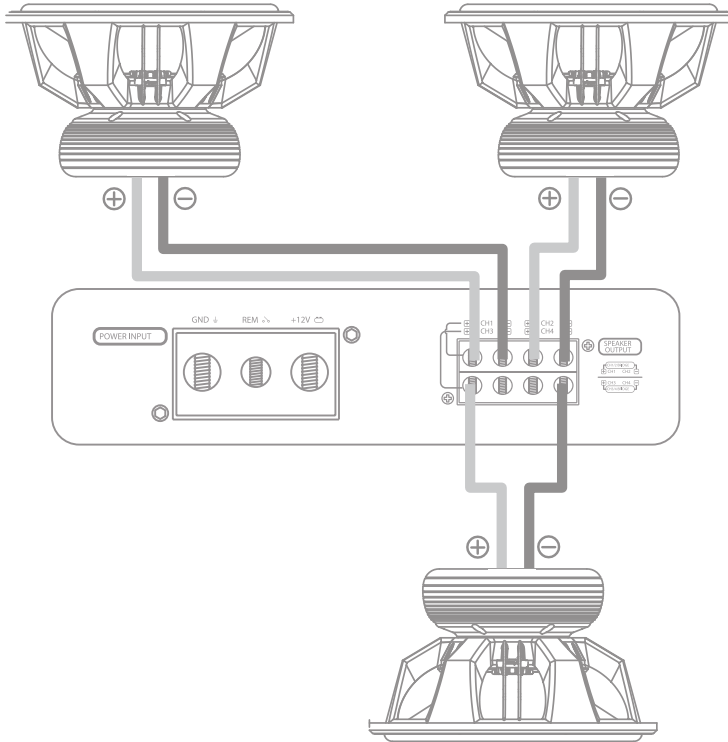


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Wiring Diagram

3 Channel operation

Minimum speaker impedance 2Ω



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

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 EDGE audio dealer.

Specification

Model	EDA4500.2AB-E6
Configuration	Stereo amplifier
Dimensions (HxWxD)	2.3" (58mm) x 33.9" (860mm) x 9.9" (251mm)
RMS @ 4Ω Stereo	2 x 850 watts
RMS @ 2Ω Stereo	2 x 1450 watts
RMS @ 1Ω Stereo	2 x 2250 watts
RMS @ 4Ω Mono	1 x 2900 watts
RMS @ 2Ω Mono	1 x 4500 watts
Maximum Power	9,000 watts
Frequency Response	10Hz - 20kHz
Crossover Type	LP / Subsonic
Crossover Range	10Hz - 1kHz

Model	EDA2000.4AB-E6
Configuration	Competition Monoblock
Dimensions (HxWxD)	2.3" (58mm) x 26" (660mm) x 9.9" (251mm)
RMS @ 4Ω Stereo	4 x 210 watts
RMS @ 2Ω Stereo	4 x 350 watts
RMS @ 1Ω Stereo	4 x 500 watts
RMS @ 4Ω Mono	2 x 700 watts
RMS @ 2Ω Mono	2 x 1000 watts
Maximum Power	4000 watts
Frequency Response	10Hz - 20kHz
Crossover Type	LP / Subsonic
Crossover Range	10Hz - 1kHz

UK Technical Enquiries

Call 09067031420

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