EDGE EDB80.2LITE-E0 DB Series 2 Channel 320 watts Amplifier Owner's Manual

Contents

EDGE EDB80.2LITE-E0 DB Series 2 Channel 320 watts Amplifier

Attention
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.
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**

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.

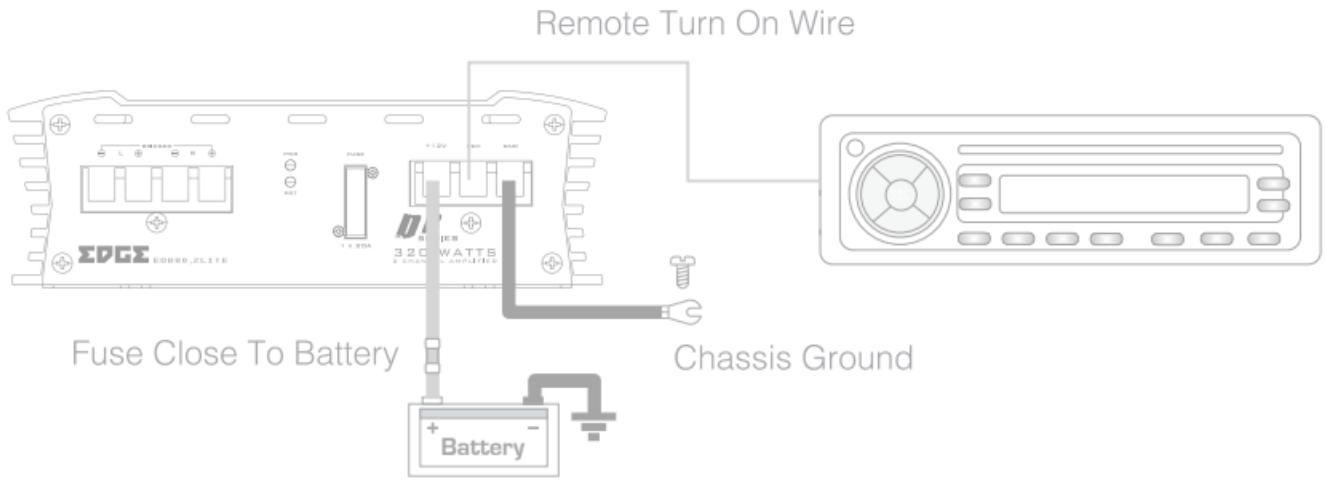
Copyright

Mounting Guidelines

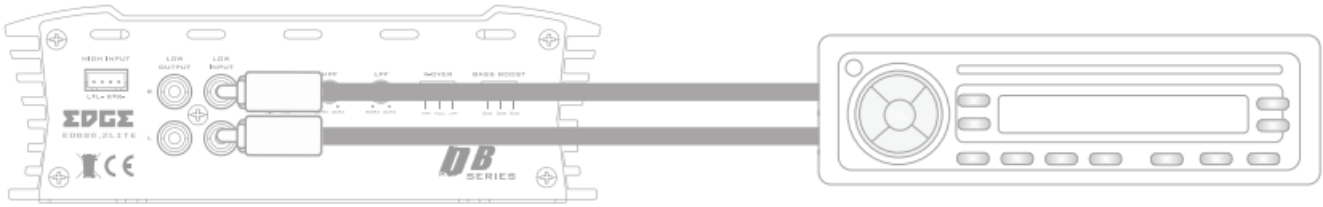
Your EDGE amplifier is designed with a swift installation routine in mind.

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.

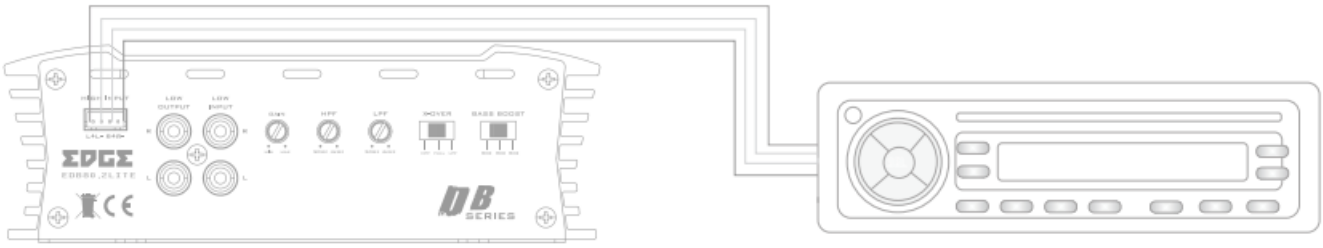
Power Connections



Low Level Input



High Level Input



NOTE When using high level input it is not necessary to connect the remote turn on wire. Do not connect both high level and low level input at the same time

Power Cable

- At least 8 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 8 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.

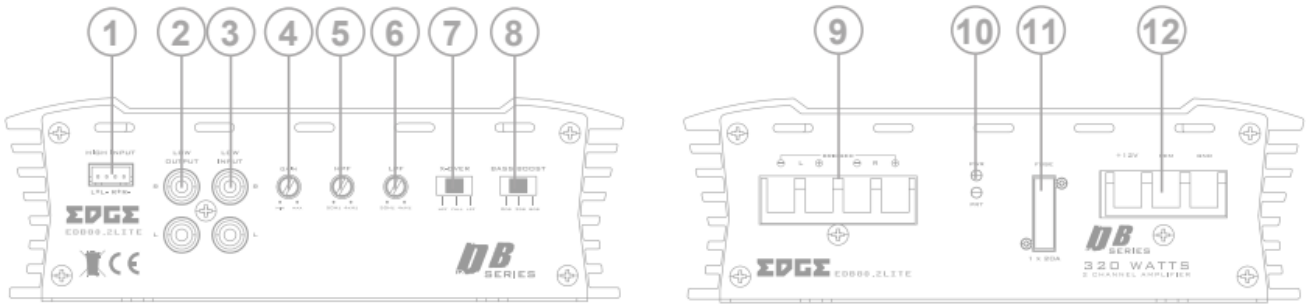
Auto Turn On (High level Input Only)

- The amplifiers feature an auto turn on circuit called Autosense.
- This circuit allows the amplifier to switch on and off without a remote turn on wire when using high level input. For low level input (RCA) it will still be necessary to connect the remote turn on wire from the headunit.
- When the connected source (headunit) is turned on the amplifier will turn on automatically, after the connected source (headunit) is turned off the amplifier will shut down.

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

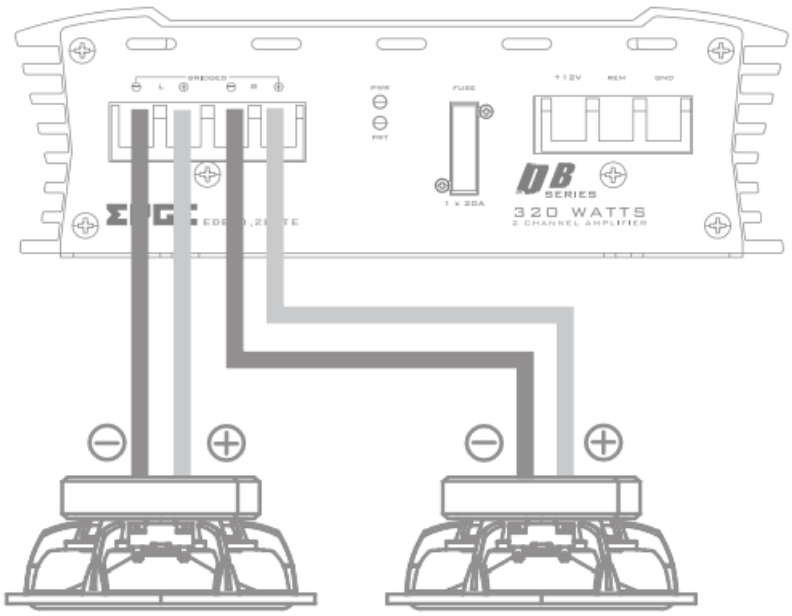


1. High level input
   For connection to the speaker output of your source (head unit). Ihis Is to be used if the source (headunit) does not have a low level output.
2. Low level output
   RCA output used to connect an additional amplifier or audio device.
3. Low level input
   For connection to any source (head unit) with a low level output. This is your RCA output from the SOurce (headunit)
4. Gain control
   his control is used to match the input SIgnal of tne source to the ampliier. See the setup section tor more

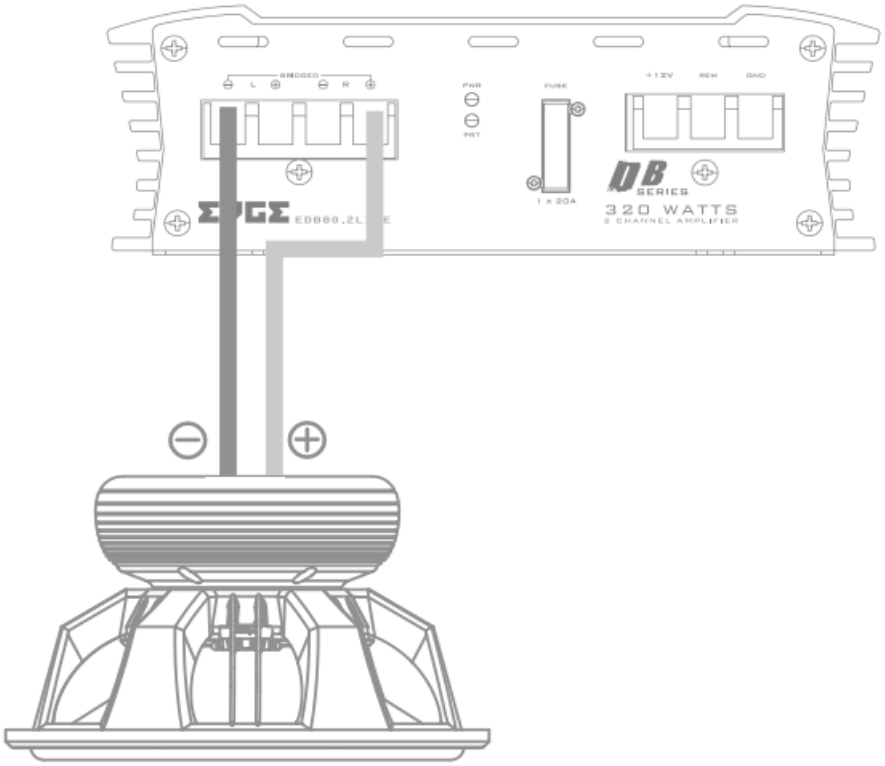
details.

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 4kHz.
6. Low Pass Filter (LPF)
   This control is used to set the crossover frequency for the amplifier when LPF is selected. Ihe frequency is adjustable between 50Hz and 4kHz.
7. Crossover mode select switch
   This control is used to select the crossover mode of the amplifier. FLAT is for full range output, HPF is used to limit the amount of low frequency information passed to the speakers and LPF is used to limit the amount of high frequency intormation passed to the speakers.
8. Bass boost select switch
   This control is used to add bass boost to the amplifier centred at 45Hz. OdB, +3dB, +6dB settings are selectable.
9. Speaker terminals
   Used to connect speaker cables to the amplifier. See the wiring configuration section for more details
10. Power/ protect LED
    If the amplifier is operating normally, the GREEN LED will illuminate. It the amplitier is in protection mode the RED LED will illuminate.
11. Fuse
    Replace with only the same value ATC fuse: 1x 20A
12. Power terminals
    Used to connect DC power to the amplifier. See the power connections section for more details

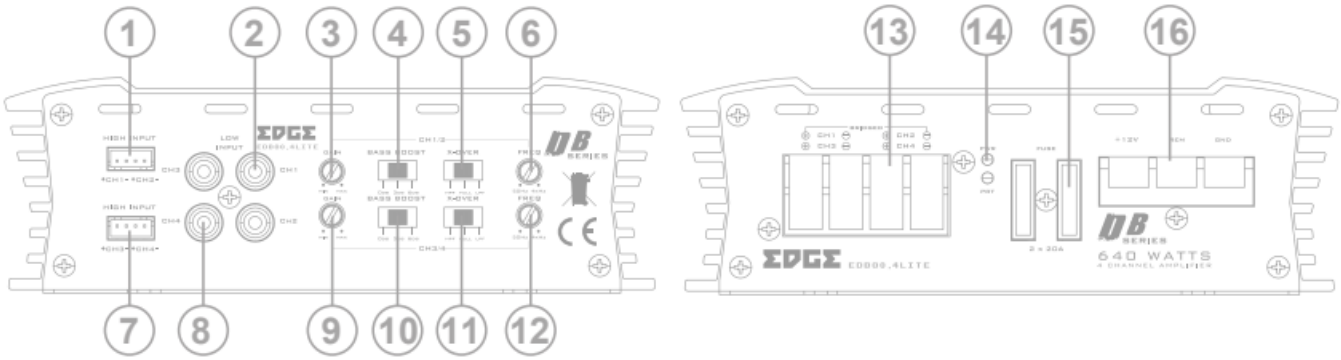
Channel Wiring Configuration



Bridged Wiring Configuration



Terminals And Connections



1. CH1/2 High level input

   For connection to the speaker output of your source (head unit). This is to be used if the source (headunit) does not have a low level output.

2. CH1/2 Low level input / output

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

   Note: When using high level input this becomes an RCA output which can be used to connect an additional amplifier or audio device.

3. 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.

4. CH1/2 Bass boost control

   This control is used to add bass boost at 45Hz which is adjustable between OdB, +3dB and +6dB

5. CH1/2 Crossover mode select switch

   This switch is used to select the crossover mode of the amplifier. FLAT is for full range output, HPF is used to limit the amount of low frequency information passed to the speakers and LPF is used to limit the amount of

high frequency information passed to the speakers.

6. CH1/2 Crossover frequency control

   This control sets the HPF or LPE frequency for the amplifier. HPF is adjustable betvween 50HZ and 4kHz, LPF is adjustable between 50Hz and 4kHz.

7. CH3/4 High level input

   For connection to the speaker output of your source (head unit). This is to be used if the source (headunit) does not have a low level output.

8. CH3/4 Low level input / output

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

   Note: When using high level input this becomes an RCA output which can be used to connect an additional amplifier or audio device.

9. CH3/4 Bass boost Control

   This control is used to add bass boost at 45Hz which is adjustable between OdB, +3dB and +6dB.

10. CH3/4 Crossover mode select switch

    This switch is used to select the crossover mode of the amplifier. FLAT is for full range output, HPF is used to limit the amount of low frequency information passed to the speakers and LPF is used to limit the amount of high frequency information passed to the speakers.

11. CH3/4 Crossover frequency control

    This control sets the HPF or LPF frequency for the amplifier. HPF is adjustable between 50Hz and 4kHz, LPF is adjustable between 50Hz and 4kHz.

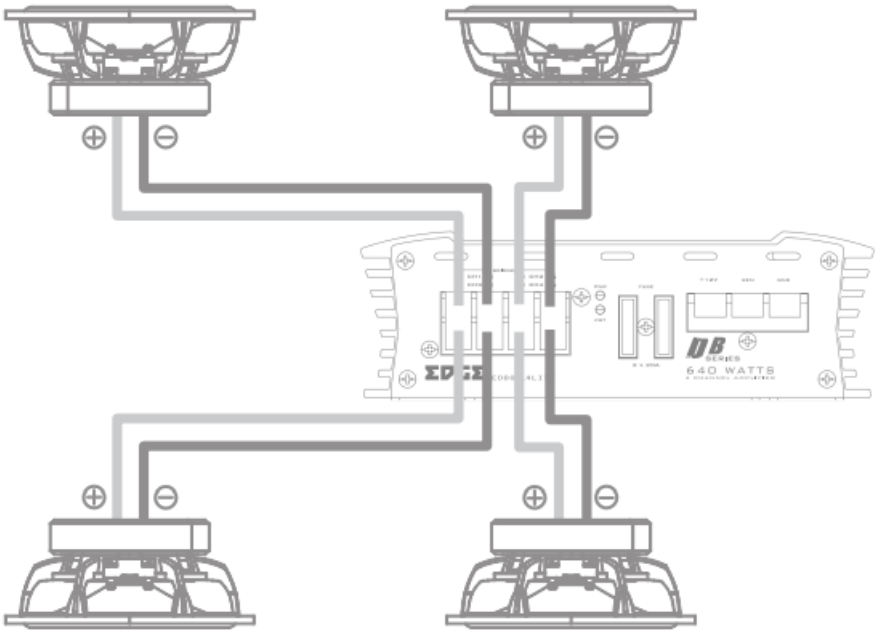
12. Speaker terminals

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

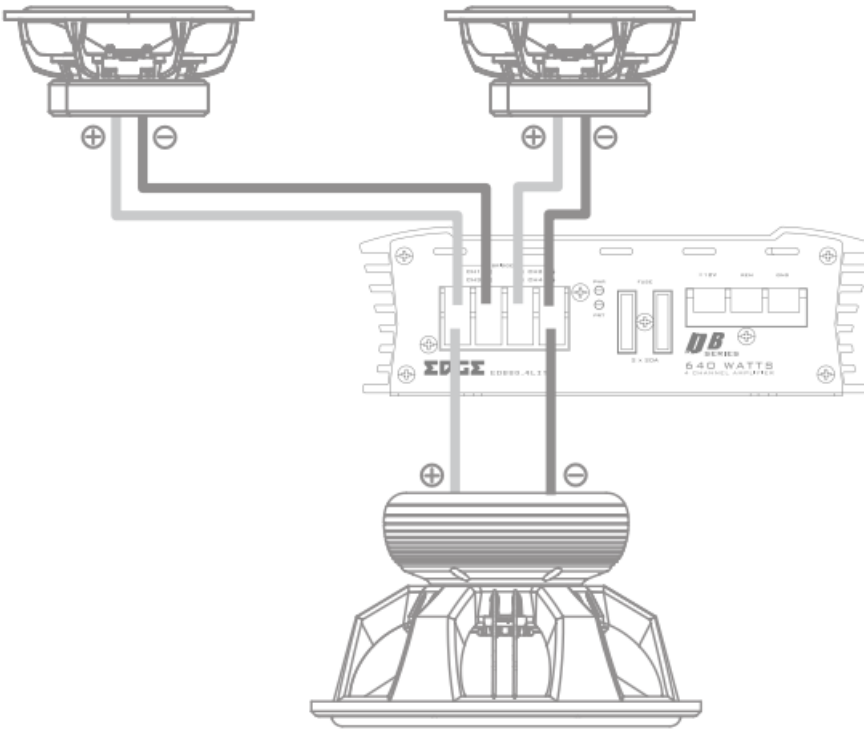
13. Power/ protect LED

    If the amplifier is operating normally, the GREEN LED will illuminate If the amplifier is in protection mode the RED LED will illuminate.

Channel Wiring Configuration



Channel 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.
- 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 pertormance from them.

  To optimise your setup seek the advice of a professional installation engineer or visit your local EDGE audio dealer.

Specification

Model	EDB80.2LITE-E0	EDB80.4LITE-E0
Configuration	2 Channel	4 Channel
Dimensions (H x W x D)	58mm (2.3”) x 178mm (7”) x 230mm (9.1”)	58mm (2.3”) x 178mm (7”) x 323mm (12.7”)
RMS @ 4 Ohms	2 x 60w / 1 x 160w	4 x 60w / 2 x 160w
RMS @ 2 Ohms	2 x 80w	4 x 80w
RMS @ 1 Ohms	N/A	N/A
Maximum Power	320w	640 w
Frequency Response	20Hz – 20kHz	20Hz – 20kHz
Crossover Type	HP/LP/FLAT	HP/LP/FLAT
Crossover Range	50Hz – 4kHz	50Hz – 4kHz
Topology	Class AB	Class AB

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.
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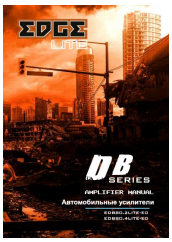
Documents / Resources

	**EDGE EDB80.2LITE-E0 DB Series 2 Channel 320 watts Amplifier** [pdf] Owner's Manual EDB80.2LITE-E0, DB Series 2 Channel 320 watts Amplifier, 2 Channel 320 watts Amplifier, 320 watts Amplifier, Amplifier, EDB80.2LITE-E0

References

- **EDGE Car Audio – Midbass Distribution Ltd**