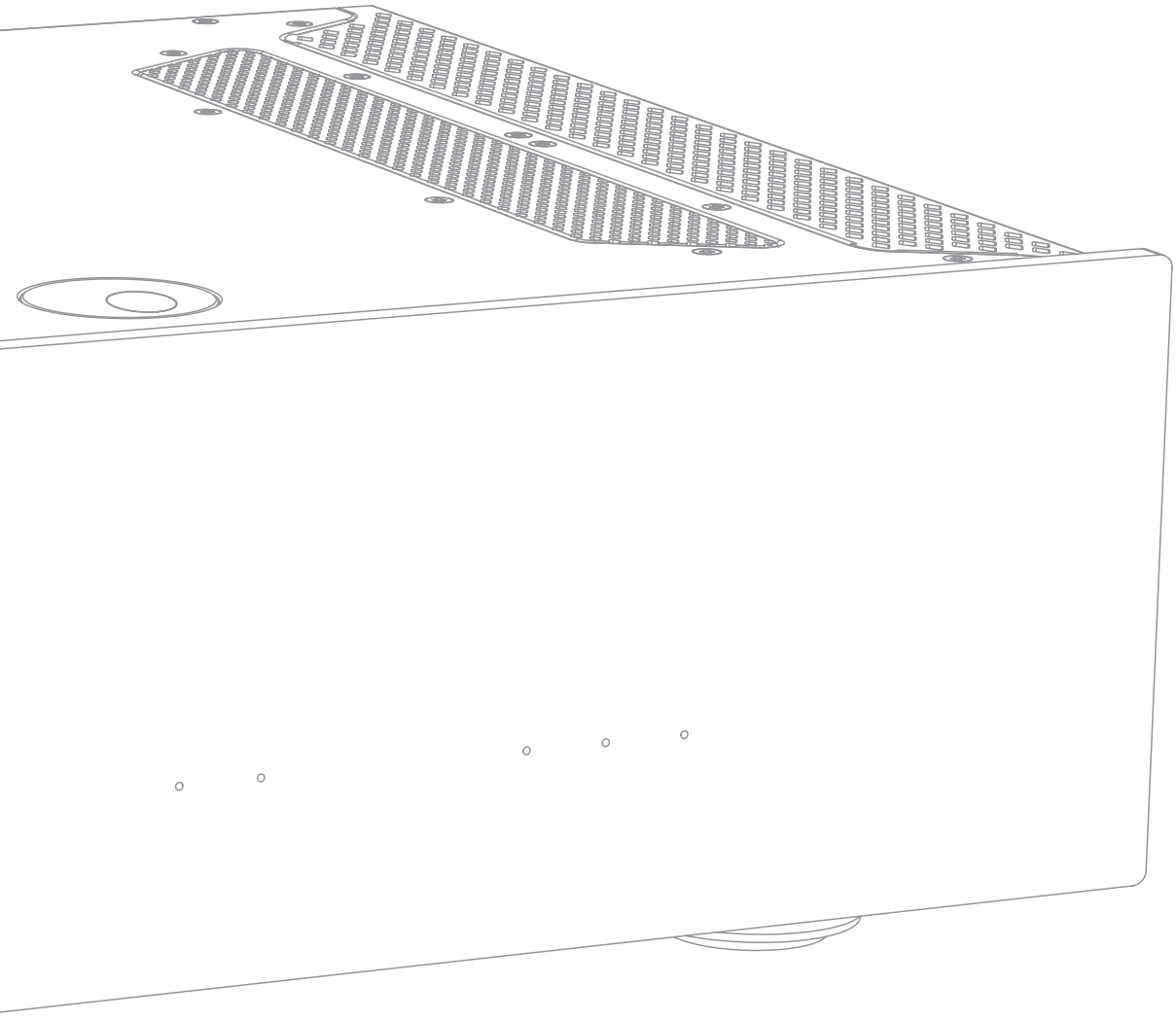
azur | 840W

Class XD power amplifier
User's manual
2

ENGLISH



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Important safety instructions

For your own safety please read the following important safety instructions carefully before attempting to connect this unit to the mains power supply. They will also enable you to get the best performance from and prolong the life of the unit:

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use with only the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as the power-supply cord or plug having been damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

WARNING – To reduce the risk of fire or electric shock, do not expose this unit to rain or moisture.

The unit is of Class 1 construction and must be connected to a mains socket outlet with a protective earthing connection.

The unit must be installed in a manner that makes disconnection of the mains plug from the mains socket outlet (or appliance connector from the rear of the unit) possible. Where the mains plug is used as the disconnect device, the disconnect device shall remain readily operable. Only use the mains cord supplied with this unit.

Please ensure there is ample ventilation. We recommend that you do not place the unit in an enclosed space; if you wish to place the unit on a shelf, use the top shelf to allow maximum ventilation. Do not put any objects on top of this unit. Do not situate it on a rug or other soft surface and do not obstruct any air inlets or outlet grilles. Do not cover the ventilation grilles with items such as newspapers, tablecloths, curtains, etc.

This unit must not be used near water or exposed to dripping or splashing water or other liquids. No objects filled with liquid, such as vases, shall be placed on the unit.

The lightning flash with the arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of un-insulated 'dangerous voltage' within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance instructions in the service literature relevant to this appliance.

WEEE symbol

The crossed-out wheeled bin is the European Union symbol for indicating separate collection for electrical and electronic equipment. This product contains electrical and electronic equipment which should be reused, recycled or recovered and should not be disposed of with unsorted regular waste. Please return the unit or contact the authorised dealer from whom you purchased this product for more information.

CE mark

This product complies with European Low Voltage (2006/95/EC) and Electromagnetic Compatibility (89/336/EEC) Directives when used and installed according to this instruction manual. For continued compliance only Cambridge Audio accessories should be used with this product and servicing must be referred to qualified service personnel.

C-Tick mark

This product meets the Australian Communications Authority's Radio communications and EMC requirements.

Ross Test Stamp

This product meets Russian electronic safety approvals.

FCC regulations

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER AUTHORITY TO OPERATE THE EQUIPMENT.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Ventilation

IMPORTANT - The unit will become hot when in use. Do not stack multiple units on top of each other. Do not place in an enclosed area such as a bookcase or in a cabinet without sufficient ventilation.

Ensure that small objects do not fall through any ventilation grille. If this happens, switch off immediately, disconnect from the mains supply and contact your dealer for advice.

Positioning

Choose the installation location carefully. Avoid placing it in direct sunlight or close to a source of heat. No naked flame sources, such as lighted candles, should be placed on the unit. Also avoid locations subject to vibration and excessive dust, cold or moisture. The unit can be used in a moderate climate.

This unit must be installed on a sturdy, level surface. Do not place in a sealed area such as a bookcase or in a cabinet. Any space open at the back (such as a dedicated equipment rack) is fine however. Do not place the unit on an unstable surface or shelf. The unit may fall, causing serious injury to a child or adult as well as serious damage to the product. Do not place other equipment on top of the unit.

Due to stray magnetic fields turntables or CRT TVs should not be located nearby due to possible interference.

Electronic audio components have a running in period of around a week (if used several hours per day). This will allow the new components to settle down, the sonic properties will improve over this time.

Power sources

The unit should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power-supply to your home, consult your product dealer or local power company.

This unit has been designed to be left in Standby mode when not in use, this will increase the life of the amplifier (this is true with all electronic equipment). To turn the unit off completely switch off on the rear panel. If you do not intend to use this unit for a long period of time, unplug it from the mains socket.

Overloading

Do not overload wall outlets or extension cord as this can result in a risk of fire or electric shock. Overloaded AC outlets, extension cords, frayed power cords, damaged or cracked wire insulation, and broken plugs are dangerous. They may result in a shock or fire hazard.

Be sure to insert each power cord securely. To prevent hum and noise, do not bundle the interconnect leads with the power cord or speaker leads.

Cleaning

To clean the unit, wipe its case with a dry, lint-free cloth. Do not use any cleaning fluids containing alcohol, ammonia or abrasives. Do not spray an aerosol at or near the unit.

Battery disposal

Please dispose of any discharged batteries according to local environmental/electronic waste disposal guidelines.

Loudspeakers

Before making any connections to loudspeakers, make sure all power is turned off and only use suitable interconnects.

Servicing

These units are not user serviceable, never attempt to repair, disassemble or reconstruct the unit if there seems to be a problem. A serious electric shock could result if this precautionary measure is ignored. In the event of a problem or failure, please contact your dealer.

Limited warranty

Cambridge Audio warrants this product to be free from defects in materials and workmanship (subject to the terms set forth below). Cambridge Audio will repair or replace (at Cambridge Audio's option) this product or any defective parts in this product. Warranty periods may vary from country to country. If in doubt consult your dealer and ensure that you retain proof of purchase.

To obtain warranty service, please contact the Cambridge Audio authorised dealer from which you purchased this product. If your dealer is not equipped to perform the repair of your Cambridge Audio product, it can be returned by your dealer to Cambridge Audio or an authorised Cambridge Audio service agent. You will need to ship this product in either its original packaging or packaging affording an equal degree of protection.

Proof of purchase in the form of a bill of sale or receipted invoice, which is evidence that this product is within the warranty period, must be presented to obtain warranty service.

This Warranty is invalid if (a) the factory-applied serial number has been altered or removed from this product or (b) this product was not purchased from a Cambridge Audio authorised dealer. You may call Cambridge Audio or your local country Cambridge Audio distributor to confirm that you have an unaltered serial number and/or you purchased from a Cambridge Audio authorised dealer.

This Warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or modification of, or to any part of, the product. This Warranty does not cover damage due to improper operation, maintenance or installation, or attempted repair by anyone other than Cambridge Audio or a Cambridge Audio dealer, or authorised service agent which is authorised to do Cambridge Audio warranty work. Any unauthorised repairs will void this Warranty. This Warranty does not cover products sold AS IS or WITH ALL FAULTS.

REPAIRS OR REPLACEMENTS AS PROVIDED UNDER THIS WARRANTY ARE THE EXCLUSIVE REMEDY OF THE CONSUMER. CAMBRIDGE AUDIO SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY IN THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY LAW, THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS AND IMPLIED WARRANTIES WHATSOEVER INCLUDING, BUT NOT LIMITED TO, THE WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PRACTICAL PURPOSE.

Some countries and US states do not allow the exclusion or limitation of incidental or consequential damages or implied warranties so the above exclusions may not apply to you. This Warranty gives you specific legal rights, and you may have other statutory rights, which vary from state to state or country to country.

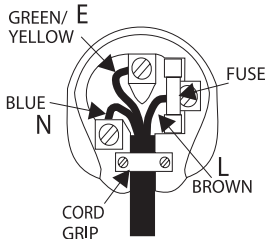
Plug Fitting Instructions (UK Only)

The cord supplied with this appliance is factory fitted with a UK mains plug fitted with a 13 amp fuse inside. If it is necessary to change the fuse, it is important that a 13 amp one is used. If the plug needs to be changed because it is not suitable for your socket, or becomes damaged, it should be cut off and an appropriate plug fitted following the wiring instructions below. The plug must then be disposed of safely, as insertion into a mains socket is likely to cause an electrical hazard. Should it be necessary to fit a 3-pin BS mains plug to the power cord the wires should be fitted as shown in this diagram. The colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug. Connect them as follows:

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter 'N' or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal which is marked with the letter 'L' or coloured RED.

The wire which is coloured GREEN/YELLOW must be connected to the terminal which is marked with the letter 'E' or coloured GREEN.



If a standard 13 amp (BS 1363) plug is used, a 13 amp fuse must be fitted, or if any other type of plug is used a 5 amp fuse must be fitted, either in the plug or adaptor, or on the distribution board.

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Contents

Visit www.cambridge-audio.com and register to receive notification of future hardware and software releases.

This guide is designed to make installing and using this product as easy as possible. Information in this document has been carefully checked for accuracy at the time of printing; however, Cambridge Audio's policy is one of continuous improvement, therefore design and specifications are subject to change without prior notice. If you notice any errors please feel free to email us at: support@cambridgeaudio.com

Introduction

Thank you for purchasing this Azur 840W Class XD™ power amplifier. We hope that you will enjoy many years of listening pleasure from it.

The 840W features our unique proprietary amplifier topology; Class XD, designed to eliminate crossover distortion at low signal levels.

By actively displacing the crossover point this technology creates a region of pure Class-A operation where the crossover zone would otherwise be before moving into an enhanced form of Class B at higher levels. It should not be confused with Class AB, which gives a small area of Class A, but at the cost of higher distortion as soon as the signal level moves outside the AB area. Class XD circuitry not only removes crossover distortion from the zero-crossing point but also reduces distortion in other parts of the amplifier's output range.

A white paper on this patent pending technology is available on our website: **www.cambridge-audio.com**

Please note that because of the Class XD technology the 840W runs slightly warmer than a conventional Class B/AB amplifier and the ventilation slots on the top of the unit must not be obstructed.

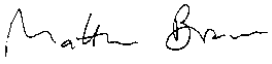
Other features include a low resonance acoustically damped chassis for freedom from distortion inducing vibrations. Four pairs of very high current output transistors per output are used for excellent load driving ability, plus the unique fifth output transistor pair per channel that provides the business end of the Class XD circuitry. High quality polypropylene signal capacitors are used throughout, whilst multiple gold plated copper bus-bars provide very low impedance conduits for the power circuits and all resistors are 1% tolerance metal-film types.

Balanced audio input connections are fitted for the highest fidelity and all inputs have loop outputs. The loop outputs can be used with the 840W's Bi-Amp Mono and Bridged-Mono modes to allow two or more 840Ws to be used in very high quality systems.

The 840W features separate transformer secondaries for left and right channels, twin rectifiers and separate PSUs for dual mono operation of the left and right power amplifiers.

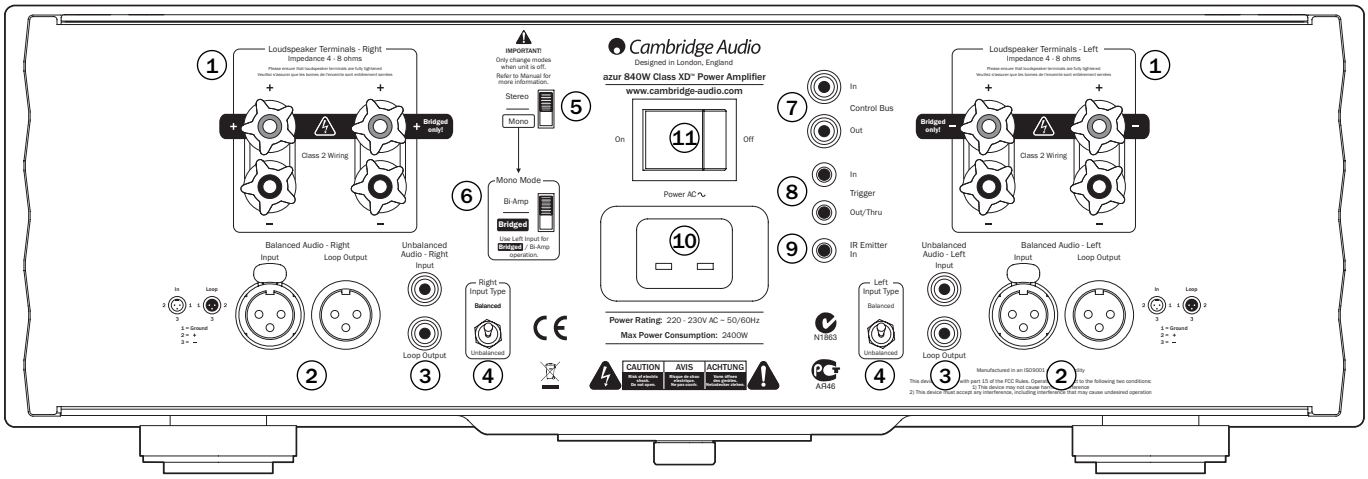
Your power amplifier can only be as good as the system it is connected to. Please do not compromise on your pre-amplifier, source equipment, speakers or cabling. Naturally we recommend models from the Cambridge Audio Azur range, particularly the matching 840E pre-amplifier. These have been designed to the same exacting standards as this amplifier. Your dealer can also supply excellent quality Cambridge Audio interconnects to ensure your system realises its full potential.

Thank you for taking the time to read this manual; we do recommend you keep it for future reference.



Matthew Bramble,
Cambridge Audio Technical Director
and the 840E/840W design team

Rear panel connections



① Loudspeaker terminals

For normal wiring, connect the wires from your left channel loudspeaker to the LEFT + & - terminals, and the wires from the right channel loudspeaker to the RIGHT + & - terminals. In each case, the red terminal is the positive output and the black terminal is the negative output.

Other dual mono schemes are also possible if two 840Ws are used. Refer to later sections of this manual for more information.

Use speakers with a nominal impedance of between 4-8 ohms. Care should be taken to ensure no stray strands of wire short the loudspeaker outputs together. Please ensure that the loudspeaker terminals have been tightened completely to provide a good electrical connection. It is also possible for the sound quality to be affected if the screw terminals are loose.

Audio input types

The 840W features either unbalanced (phono/RCA) or balanced (XLR) input connections. Either type may be used but not both at the same time. The balanced connection is the higher quality option and can reject noise and interference in the cable when used with other equipment that supports this function. An XLR connector is wired Pin 1 - Ground; Pin 2 - Hot (in-phase); Pin 3 - Cold (phase-inverted).

Use the Left and Right Input Type switch (Item 4) to select the connection type you wish to use. When using either the balanced or unbalanced input, make sure that no cables or equipment are connected to the unused input, as this may degrade operation. The unused input does not need to be terminated and this should not be done.

② Balanced Audio

For connection to the balanced XLR outputs of suitable pre-amplifiers that have this kind of output (such as our own 840E model). The pre-amplifier used should be capable of providing at least 1V rms of output per phase (i.e. at both of + and – terminals of the XLR, more is also fine). Nearly all modern pre-amplifiers fulfill this requirement.

③ Unbalanced Audio

For connection to the normal (single ended) RCA/Phono outputs of a suitable pre-amplifier (such as our own 840E model). The pre-amplifier used should be capable of providing at least 1V rms of output (more is fine). Nearly all modern pre-amplifiers fulfil this requirement.

④ Input Type switch

Use to select a balanced or unbalanced connection type for the input.

⑤ Stereo/Mono mode switch

Switches the 840W between 'normal' Stereo operation (where one 840W is used for a pair of speakers) and Mono operation (where two 840W's are used one for each speaker). Refer to later sections of this manual for more information.

⑥ Mono mode switch

When Mono mode has been selected, switches the 840W between Bi-Amped Mono and Bridged Mono. Refer to later sections of this manual for more information.

⑦ Control Bus

In - Allows un-modulated commands from multi-room systems or other components to be received by the unit.

Out - Loop out for Control Bus commands to another unit.

The 840W can also be switched between On and Standby mode by connecting the Control Bus output of an 840E pre-amplifier to the Control Bus input of the 840W. Refer to the 'Power syncing' section of this manual for more information.

⑧ Trigger In, Out/Thru

For Custom Install use, the 840W can be turned on and off (i.e. brought in and out of Standby mode) by the presence of 5-12V DC at the Trigger input. A trigger input will also produce an internally generated 12V DC trigger output at the Output/Thru connection. Turning the 840W on from the front panel also produces a 12V DC trigger output at the Output/Thru connection. This can be used to turn on/Standby other connected power amplifiers or other equipment if desired. Refer to the 'Power syncing' section of this manual for more information.

⑨ IR (Infra-Red) Emitter In

Allows modulated IR commands from multi-room systems or IR repeater systems to be received by the unit. Commands received here are not looped out of the Control Bus. Refer to the 'Custom installation' section for more information.

⑩ AC power socket

Once you have completed all connections to the unit, plug the AC power cable into an appropriate mains socket then switch on. Your unit is now ready for use.

⑪ Power On/Off

Switches the unit on and off. If the 840W is not going to be used for long periods of time it should be turned off using this switch.

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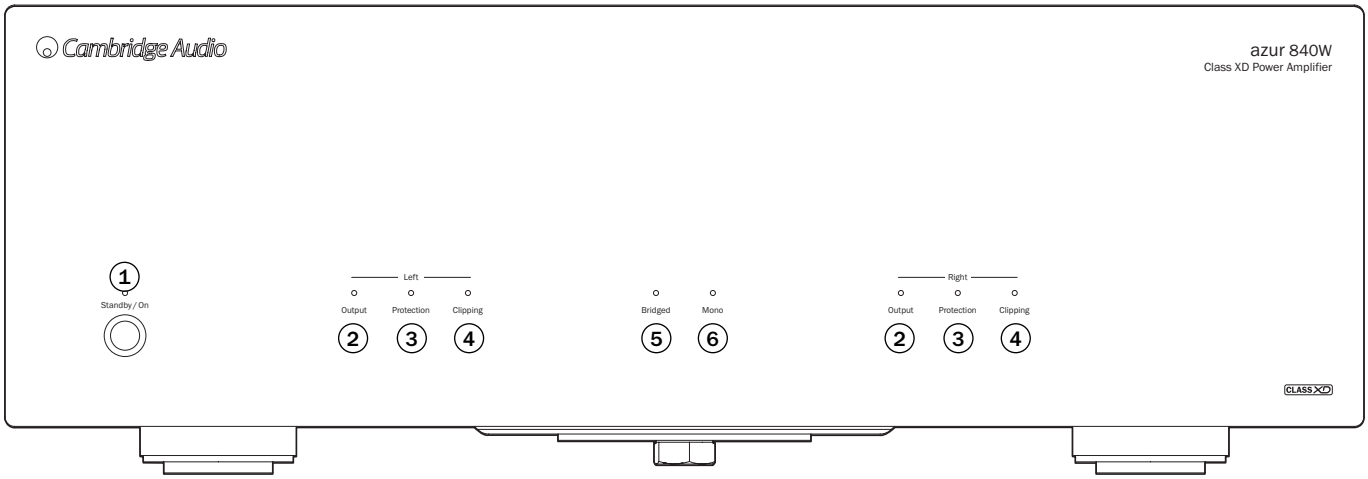
Front panel controls



① Standby/On

Switches the unit between Standby mode (indicated by dim power LED) and On (indicated by bright power LED). Standby mode is a low power mode where the power consumption is less than 10 Watts. The unit should be left in Standby mode when not in use.

When the 840W is switched out of Standby mode it will automatically check for faults and allow the power amplifier stages to stabilise before un-muting the speaker outputs.

Note: The protection LEDs will flash whilst this check is being done.

② Output

Indicates that the Left or Right output is active. The LED (light-emitting diode) is on for an active output, off for inactive (i.e. muted).

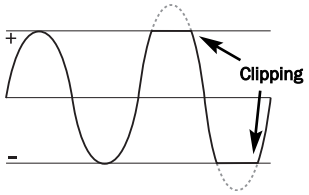
③ Protection

If this LED is constantly on the 840W has detected a fault on either the Left or Right channel and is protecting itself.

④ Clipping

This LED indicates that the 840W has detected that either the Left or Right channel is being overdriven or clipped.

Clipping distortion is caused at high volume levels when the output signal attempts to go outside the maximum voltage that the connected pre-amplifier can provide, causing the tops of the signal to flatten off.



When the 840W detects clipping this LED will briefly flash. If the clipping reaches a dangerous amount that could damage the amplifier or attached speakers the unit will then go into protection.

⑤ Bridged

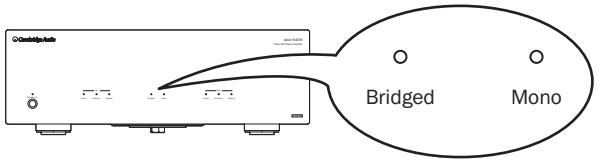
This LED indicates that the 840W is being used in Bridged mode. (The Mono LED will also be illuminated.)

⑥ Mono

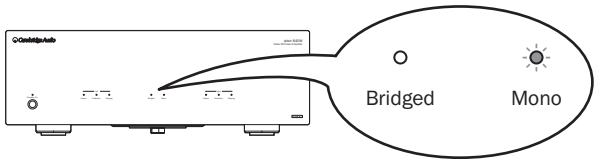
This LED indicates that the 840W is being used in a Mono mode.

LED indicators

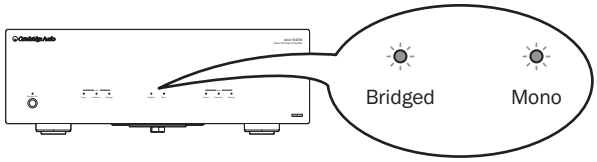
Stereo output:



Mono output:



Bridged Mono output:



Connections

The 840W features both balanced (XLR) and unbalanced (RCA/Phono) output connections. For the best quality we recommend you use the balanced output with pre-amplifiers that feature this connection (such as our own 840E Pre-Amplifier).

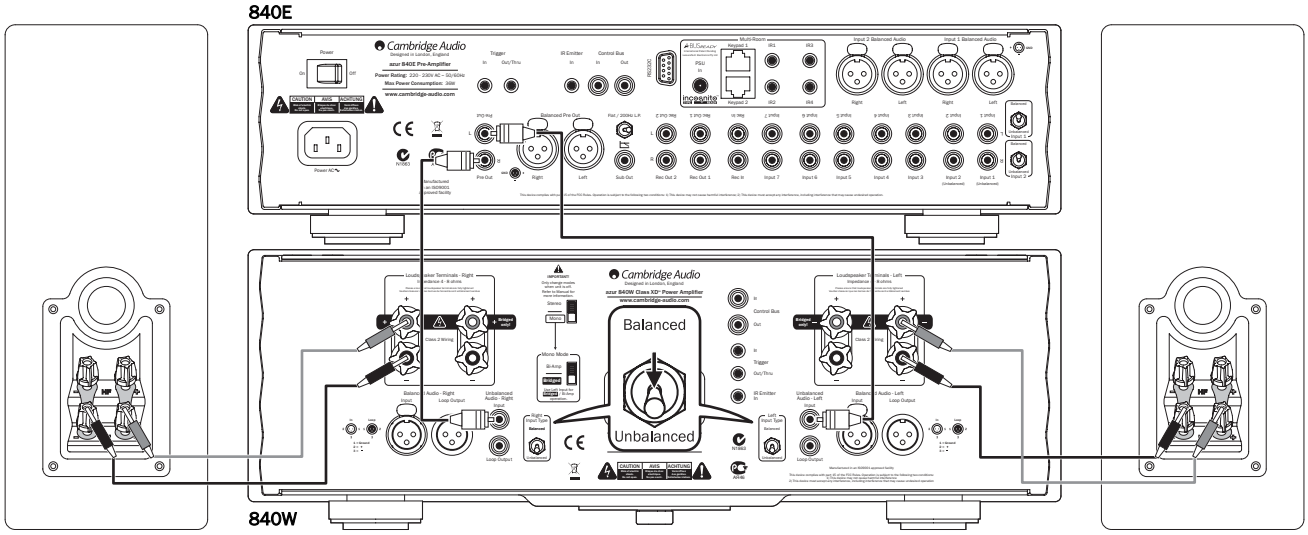
Before making any connections to loudspeakers, make sure all power is turned off and only use suitable interconnects (e.g. banana plugs). Ensure that the positive (+) and negative (-) connections are matched. Your loudspeaker may have more than one pair of connecting terminals; LF (Low Frequency) and HF (High Frequency). For single-wiring it is recommended to connect to the LF terminals. The metal strip connecting the low-frequency terminals to the high-frequency terminals **must not be removed** (only to be removed for a bi-wiring system).

Unbalanced stereo connections

The diagram below shows the 840W connected to an 840E using the Unbalanced Audio inputs via phono/RCA connectors, single wired to a pair of loudspeakers.

When using unbalanced (phono/RCA) connections, the Left and Right Input Type switches on the 840W must be in the 'Unbalanced' position.

Note: In this configuration the 840W must be set to Stereo mode.

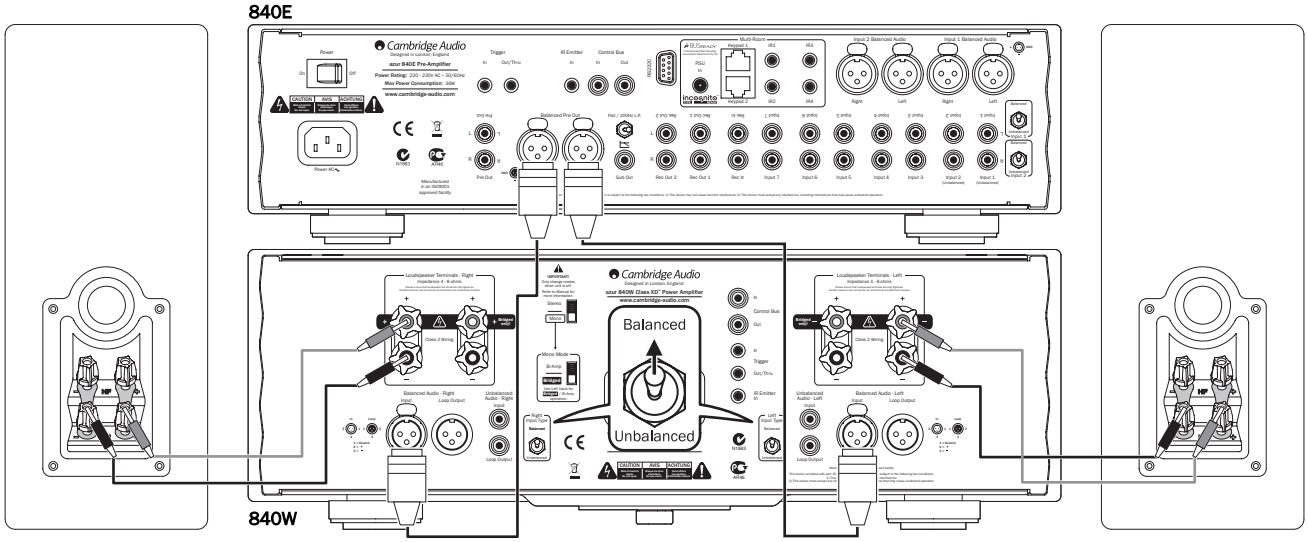


Balanced stereo connections

The diagram below shows the 840W connected to an 840E using the Balanced Audio inputs via three-pin XLR connectors, single wired to a pair of loudspeakers.

When using balanced (XLR) connections, the Left and Right Input Type switches on the 840W must be in the 'Balanced' position.

Note: In this configuration the 840W must be set to Stereo mode.



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Power syncing (On/Standby control)

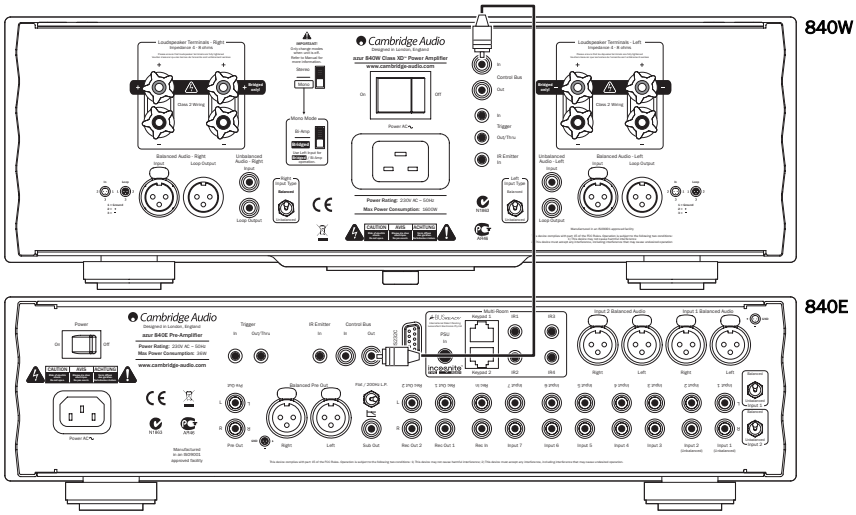
When going in/out of Standby mode the Azur 840E pre-amplifier can (if desired) automatically control the 840W when connected via the Control Bus sockets (the Control Bus sockets are colour-coded orange on the rear panels of compatible Azur models). For this feature to work the units must be connected together by RCA/phono leads. No further setup is necessary.

Connect the Control Bus Out from the 840E to the Control Bus In on the 840W. Continue the chain to other Azur models if it is required to sync more units (refer to the 840E's own manual for more information as this requires some setup).

Note: The 840E features a Trigger Out which can alternatively be used to control the 840W's Standby/On status if desired. Again, the procedure is simply to connect the two units together (using a 3.5mm to 3.5mm mono mini-jack lead in this case).

Control Bus is the recommended method when using an 840E and other Cambridge Audio equipment with Control Bus In/Out.

Trigger In/Out can be useful if the 840W (and indeed 840E) is desired to be controlled by other equipment that features trigger outputs (Custom install and/or Multi-Room Systems etc).



Advanced connections

As well as normal single-wired stereo operation (whether balanced or unbalanced), several other modes of operation are possible; Bi-wired Stereo, Bi-Amped Mono and Bridged Mono and others.

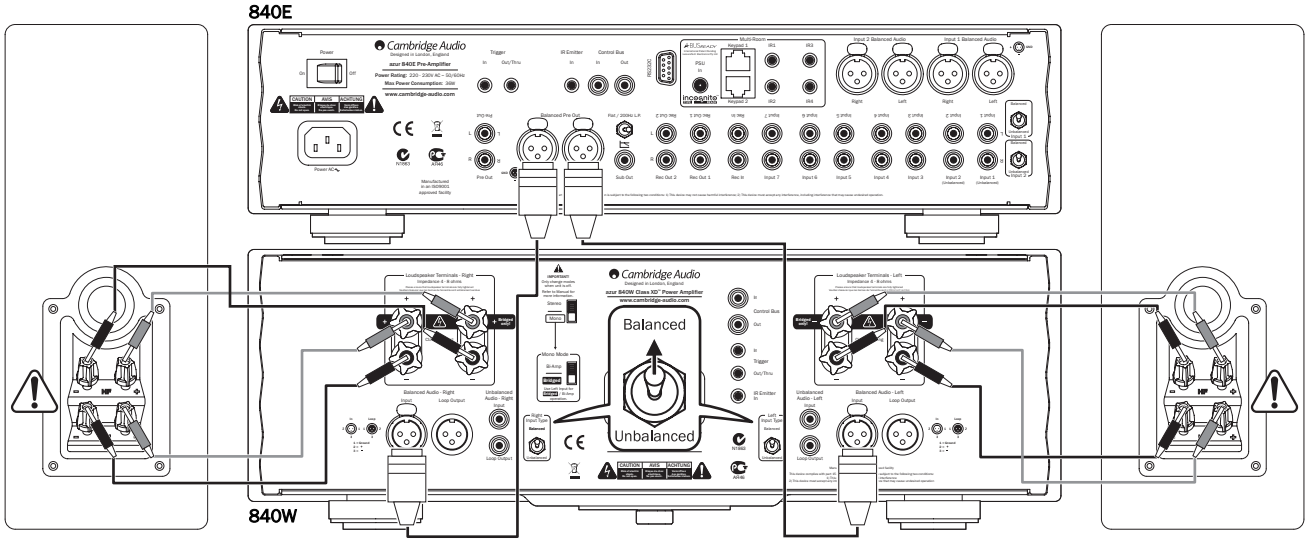
In all of the following examples either balanced or unbalanced connections can be used, the principle is exactly the same for each type of connection. For simplicity, we will show only the balanced connections in each example.

Bi-wired stereo connections

The diagram below shows the 840W connected to an 840E bi-wired to a pair of loudspeakers.

IMPORTANT! The metal strip connecting the low-frequency terminals to the high-frequency terminals must be removed for a bi-wiring system.

Note: In this configuration the 840W must be set to Stereo mode.



Bi-amped dual mono connections

The 840W features Mono and Bi-Amped Mono settings that allow two (or more) 840Ws to be used as mono-blocs for high end systems. Below is an example using two 840Ws in Bi-Amped Mono with an 840E.

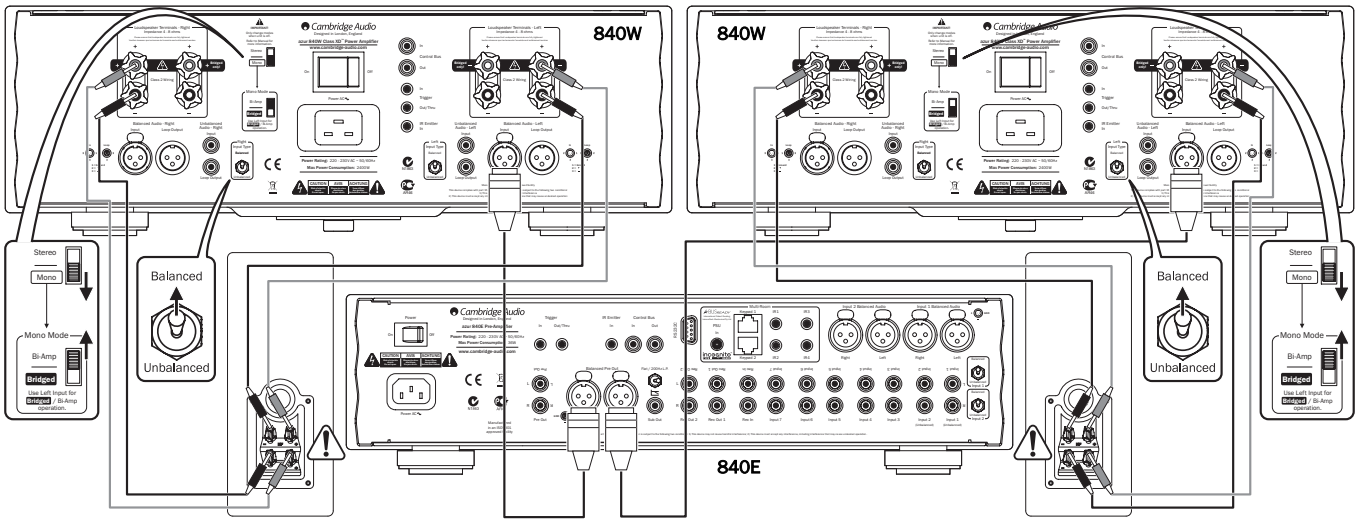
In Bi-Amped Mono mode each 840W drives one speaker.

Important 840W settings

Only use the Left Inputs on the 840W for Bi-Amped operation.

In this configuration the Stereo/Mono switch on the 840W must be set to ‘Mono’ and the Mono mode switch must be set to ‘Bi-Amp’.

The metal strip connecting the low-frequency terminals to the high-frequency loudspeaker terminals must be removed.



Bridged dual mono connections

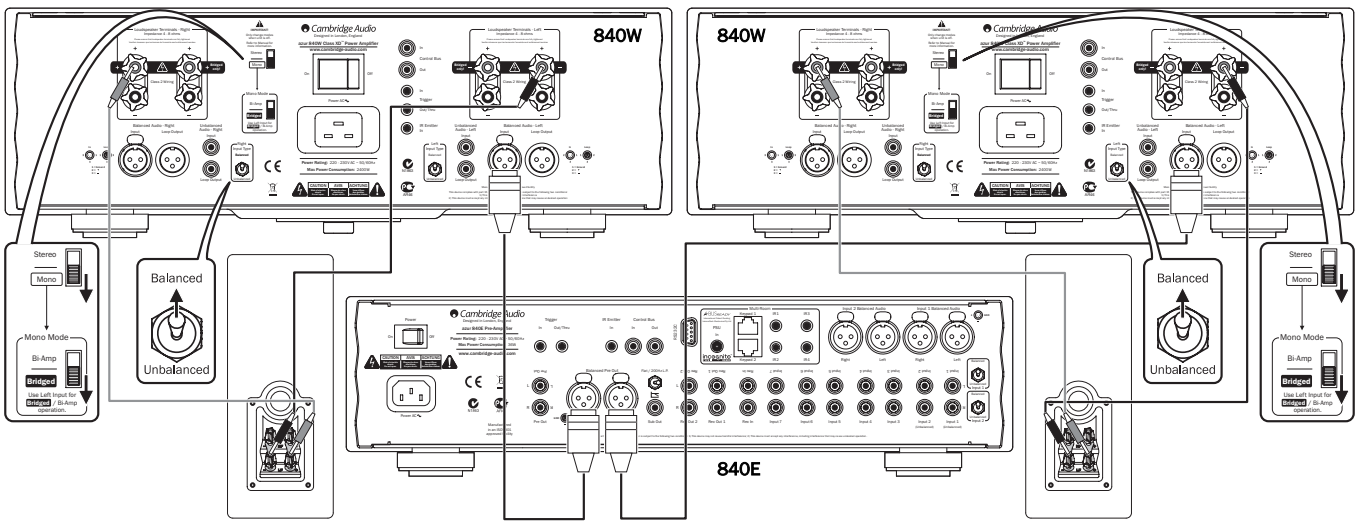
The 840W features Mono and Bridged Mono settings that allow two (or more) 840Ws to be used as mono-blocs for high end systems. Below is an example using two 840W’s in Bridged Mono with an 840E.

In Bridged Mono mode each 840W drives one speaker **across** its output channels acting as a 500W mono amplifier instead of a 200wpc stereo one. One 840W drives the left speaker and the other the right.

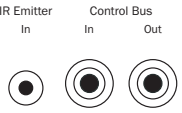
Important 840W settings

Only use the Left Inputs on the 840W for Bridged operation.

In this configuration the Stereo/Mono switch on the 840W must be set to ‘Mono’ and the Mono mode switch must be set to ‘Bridged’.



Custom installation (C.I.) use



The 840W features a Control Bus input/output that allow un-modulated remote control commands (positive logic, TTL level) to be received electrically by the unit and looped to another unit if desired. These control commands are typically generated by custom installation (multi-room) systems or remote IR receiver systems. The Control Bus sockets are colour-coded orange.

An IR Emitter Input is also provided that allows modulated IR remote control commands to be received electrically by the unit. Commands on this input operate the unit only and are not looped out demodulated on the Control Bus Output.

The unit responds to 'direct' IR/Control codes as well as toggle codes for some features to simplify programming custom installation systems. Special direct On/Off and Mute commands can be accessed from the 840E pre-amplifier remote control for teaching into C.I. systems as follows:

1. Press and hold the *Standby/On* button. The remote first generates a standby (toggle) command. Keep the button held down, after 12 seconds an amplifier "On" command will be generated. If the button is kept held down for a further 12 seconds, an amplifier player "Off" command is generated.
2. Press and hold the *Mute* button. The remote first generates a mute (toggle) command. Keep the button held down, after 12 seconds a "Mute on" command will be generated. If the button is kept held down for a further 12 seconds, a "Mute off" command is generated.

These commands are recognised by the 840W via the IR Emitter input.

A code table for this product is available on the Cambridge Audio website:

www.cambridge-audio.com

Technical specifications

Power Output - Stereo/Mono	200W per channel 8 Ohms 350W per channel 4 Ohms
Power Output - Bridged Mono	500W 8 Ohms 800W 4 Ohms
THD (unweighted)	< 0.001% 1kHz < 0.005% 20Hz - 20kHz
Frequency Response	5Hz - 80kHz -1dB
S/N ratio (ref 1W/8 Ohm)	> 90 dB (unweighted)
Sensitivity (for 200W 8 Ohms)	Stereo or Mono = 1.5V rms unbalanced 1.5 + 1.5V rms balanced Bridged Mono = 0.775V rms unbalanced 0.775V + 0.775V rms balanced
Input impedances	Balanced input 38 kOhm Unbalanced input 68 kOhm
Damping factor	> 125 at 1 kHz
Trigger In	5 - 12V AC or DC
Trigger Out	12V DC @ 100mA
Power consumption	Maximum 2400W Active (no signal) < 180W Standby < 5W
Dimensions (H x W x D)	148 x 430 x 365mm (5.8 x 16.9 x 14.4")
Weight	19.1kg (42.1lbs)

Troubleshooting

There is no power

Ensure the AC power cord is connected securely.

Ensure the plug is fully inserted into the wall socket and is switched on.

Check fuse in the mains plug or adaptor.

There is no sound

Make sure the unit is not in Standby mode.

Check that your source component is properly connected.

Check that your loudspeakers are properly connected.

Check that the Left and Right Input Type switches are in the correct position (Balanced or Unbalanced).

Check that the Stereo/Mono mode switch is in the correct position (Stereo or Mono).

Check that the Mono mode switch is in the correct position (Bi-Amp or Bridged).

There is no sound on one channel

Check that your source component is properly connected.

Check that your loudspeakers are properly connected.

Check that the Left and Right Input Type switches are in the correct position (Balanced or Unbalanced).

Check that the Stereo/Mono mode switch is in the correct position (Stereo or Mono).

Check that the Mono mode switch is in the correct position (Bi-Amp or Bridged).

There is a loud buzz or hum

Ensure that no interconnects are loose or defective.

Ensure that your tape deck/turntable is not too close to the unit.

There is weak bass or diffused stereo imaging

Ensure that the loudspeakers are not wired out of phase.

For more frequently asked questions (FAQs), technical advice and information on getting the most out of your 840W, please visit the Support section on Cambridge Audio's website:

www.cambridgeaudio.com/support.php

Cambridge Audio is a brand of Audio Partnership Plc
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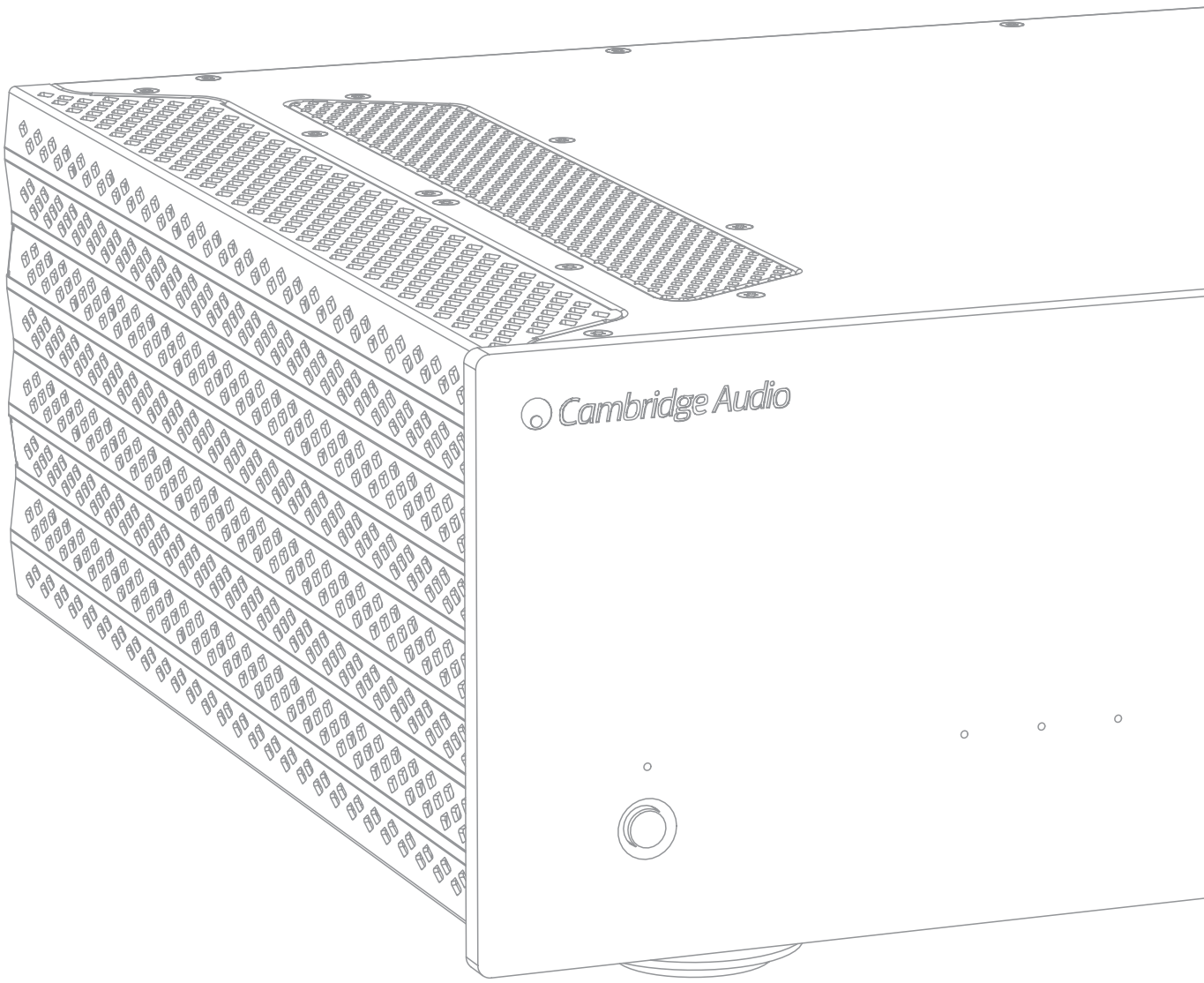
www.cambridge-audio.com



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