

BRYSTON OWNERS MANUAL



BRYSTON 225/325 CLASS D AMPLIFIERS

MUSIC WITH EMOTION

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WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK:

DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

DO NOT EXPOSE THIS EQUIPMENT TO DRIPPING OR SPLASHING AND ENSURE THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, ARE PLACED ON THE EQUIPMENT.

COMPLETELY DISCONNECT THIS EQUIPMENT FROM THE AC MAINS.

DISCONNECT THE POWER SUPPLY CORD FROM THE AC RECEPTACLE

IMPORTANT SAFETY INSTRUCTIONS



The lightning flash with arrowhead symbol within an equilateral triangle, is intended to alert the user to the presence of uninsulated “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 (servicing) instructions in the literature accompanying the product.

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 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. Unplug this apparatus during lightning storms or when unused for long periods of time.
13. Refer all servicing to qualified service personnel.

Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is 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.



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WELCOME

Thank you for your purchase of a Bryston Class D 225 or 325 amplifier. These amplifiers represent premium quality discrete Class D state of the art amplifiers. High output power, low distortion, exceptional sound quality and a variety of features and options make these amplifiers suitable for a wide variety of high quality audio applications.

We have all worked hard to bring the highest level of satisfaction to your audio experiences, and will continue to work hard to make every Bryston purchase a wise audio investment for you. Bryston is deeply committed to ongoing scientific research that continues to enhance the performance of our products. It is our central goal at Bryston to turn this research into a truly exciting experience for you in your environment. Our commitment to the delivery of the most accurate sound reproduction is a commitment to heighten the level of enjoyment you receive from music and movies.

DESCRIPTION

The Bryston Class D is a discrete multi-channel amplifier housed in a single chassis. From one to six channels are available. The BD-225 offers 225 watts per channel at 8 Ω and 450 at 4 Ω . The BD-325 will provide 325 watts per channel at 8 Ω and 650 watts at 4 Ω . Single ended and Balanced inputs are available as well.

FEATURES

- From one to six channels available in one chassis.
- Single Ended (RCA) and Balanced inputs available.
- Massive LINEAR power supply for superb transient performance.
- 12 Volt Trigger
- Fully passive thermal management - no fans !
- Bryston 5 Year warranty.

INSTALLATION AND USAGE

The Bryston Class D Amplifiers are designed to function optimally in a variety of circumstances but careful placement will ensure long life and outstanding performance. Do not place the amplifiers nearby known sources of electromagnetic or radio interference. Dress cables to avoid parallel runs of power cables and audio interconnects. Usually, using audio interconnects and speaker cables that are as short as possible results in the best sound quality.

Always use Balanced cables if given the option.



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VENTILATION

Bryston has deliberately chosen to omit fans from our amplifiers in an effort to minimize the noise level in your listening environment. Instead, we use only passive heat sinks which are fully capable of maintaining a safe operating temperature of the amplifier even under dynamic playback conditions. For them to work most effectively, air must be permitted to pass freely through the heat sink fins and around the amplifier. Please maintain a minimum of 3.5 inches of space to each side, top and back of the amplifier when in use.

CONNECTING AC POWER

Please check the Data Plate on the amplifier to verify power requirements agree with your location. Be sure this rating corresponds to the voltage supplied in your country. If there is a difference please do not proceed any further and contact Bryston for assistance. Failure to use the proper power supply will result in immediate and permanent damage. Plug the IEC-320 C14 end of the power cord into the amplifier, then plug the other end into an approved and grounded A/C receptacle.

Turn on the main power switch on the rear panel. Push the power button located on the front of your BD-225/325. The front light should glow blue and the amplifier is now ready for use. When the rear panel power switch is in the on position and the front panel push switch is off, the amplifier is in standby mode. If the amplifier is to be continuously powered on via the rear power switch, we recommend leaving the amplifier in standby mode for reduced power consumption.

CONNECTING PREAMPLIFIER

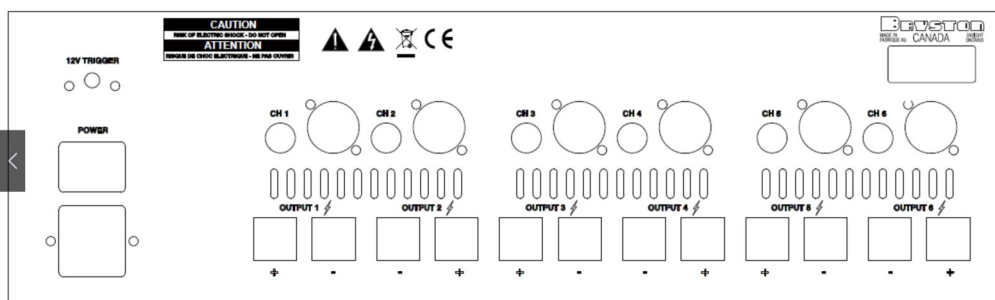
Simply connect your stereo preamplifier or multiple source component to the appropriate RCA or Balanced input. Always use cables that have the same type of connector on each end. **DO NOT** use RCA to XLR adaptor cables or adapters. Never connect both an RCA cable and an XLR cable to the same amplifier channel at the same time

CONNECTING LOUDSPEAKERS

Connection to loudspeakers is accomplished by attaching high quality speaker cable to the Output Binding Posts per the following. The **RED** binding post is connected to the positive channel output. Connect this post to the (+) terminal on the loudspeaker. The **BLACK** binding post is connected to ground. Connect this post to the (-) terminal on the loudspeaker. The output binding posts provide three different interconnect

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NOTE - PAY SPECIAL ATTENTION TO THE SEQUENCE OF POSITIVE(+) AND NEGATIVE(-) SPEAKER CONNECTIONS

options. Combinations may be used when bi-wiring. Cables should be kept as short as practical and should never be terminated with connectors that may become confused for AC power connectors. Cables should be dressed away from input and power cables.

To prevent the risk of equipment damage or personal harm, use only Class 2 rated loudspeaker wire properly terminated and connected securely to the binding posts. Banana plugs offer a quick disconnect option. Before inserting a banana plug into the binding post, be sure to tighten the post nut to avoid rattling and to provide full insertion of the banana plug.

Spade lugs provide high contact area and secure fastening. Lugs should be gold plated if possible. Post diameter is 5/16" (8mm), lug width 5/8" (16 mm). Stripped bare wire up to 3 gauge can be inserted through the hole in the binding post and held in place by tightening the post knob. Do not over-tighten or the binding post as it may become damaged. Note that copper wire is malleable and may require further tightening after the initial installation.

CONTROL

The Briston Class D amplifiers provide a trigger Input.

The trigger input is an optional hook-up. If your A/V receiver or preamp processor has a 12-volt trigger output, you can run a 3.5mm connector cable to the trigger input and your BD-225/325 will power on and off with your A/V receiver or preamp. In order to use the trigger input, both the rear panel power switch and the front panel push switch must be in the on position

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AMPLIFIER CONTROLS

Power

Press this button to power the unit on/off (LED will be BLUE if ON)

Compartment

An IEC-320 C14 power inlet provides for connection of an IEC-320 C13 equipped power cord. Before connecting the power cord to the amplifier, check that the voltage rating on the data plate or ratings label conforms with your locality. The BD225/325 is protected by an AC Mains fuse specifically rated for the AC power in your region. The fuse must be installed and intact for the amplifier to power on and operate. Only replace the fuse with one of identical value listed on the Fuse Data Label. Do not attempt removal or replacement of the fuse when the amplifier is plugged into the wall!



BRYSTON CLASS D 3-CHANNEL VERSION



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BD-225 & BD-325 GENERAL SPECIFICATIONS

BRYSTON	BD-225	BD-325
Frequency Response	1Hz – 45kHz	1Hz - 50kHz
Signal To Noise	103 dB	105 dB
Voltage Gain	29 dB	29dB
Sensitivity	1.5 Volts	2 Volts
Capacitance	108,000uf	144,000uf
Single Ended RCA Input	Yes	Yes
XLR Balanced Input	Yes	Yes
Power Per Channel	225W @ 8Ω 450W @ 4Ω	325W @ 8Ω 650W @ 4Ω
AC Input Voltage	120 or 240	120 or 240
Dimensions HWD Inches	5.25 x 17.25 x 16.75	5.25 x 17.25 x 16.75
Dimensions HWD MM	133 x 450 x 425^{inc}	133 x 450 x 425^{inc}
Weight lbs.	58	67
Weight kgs	26	30

Personalized Faceplates

Bryston is pleased to introduce the availability of personalized faceplate colours, available now for Bryston amplifiers, preamplifiers, CD players, digital players, phono stages and DAC's.

Our new colour choices, plus the option to create custom colours, enable Bryston electronics to blend seamlessly or contrast elegantly within any décor or equipment rack.

Enjoy bespoke colour choices as an added touch to any entertainment space.

ADDITIONAL CUSTOM COLOURS AVAILABLE UPON REQUEST

Source buttons only available in Black or Silver

GUN METAL GREY



CHAMPAGNE



SILVER



WHITE



BLACK



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