



IMPORTANT SAFETY INSTRUCTIONS



The lightning flash with 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 (servicing) instructions in the literature accompanying the product.

- 1. Read these instructions.
- 2. Keep these instructions.
- Heed all warnings.
- 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. Use only with 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 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.

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.

TO COMPLETELY DISCONNECT THIS EQUIPMENT FROM THE AC MAINS, DISCONNECT THE POWER SUPPLY CORD PLUG FROM THE AC RECEPTACLE.

THE MAINS PLUG OF THE POWER SUPPLY CORD SHALL REMAIN READILY OPERABLE.

BRYSTON LIMITED WARRANTY

Bryston analog audio products are warranted to be free from manufacturing defects for twenty (20) years from the original date of manufacture. The warranty includes parts and labour.

Bryston Digital products and cables are warranted for five years from the original date of manufacture. The warranty includes parts and labour. Bryston products having motorized moving parts, excluding motorized volume controls, are warranted for three years from the original date of manufacture. The warranty includes parts and labour.

Bryston will remedy the problem by repair or replacement, as we deem necessary, to restore the product to full performance. Bryston will pay return shipping costs for the full length of the specific product's warranty.

In the event of a defect or malfunction, contact Bryston's repair centers for return authorization. Products must be returned using original packaging material only. Packing material may be purchased from Bryston if necessary. This warranty is considered void if the defect, malfunction or failure of the product or any component part was caused by damage (not resulting from a defect or malfunction) or abuse while in the possession of the customer. Tampering by persons other than factory authorized service personnel or failure to fully comply with Bryston operating instructions voids the warranty. This warranty gives you specific legal rights and you may also have other rights which may vary from province to province and country to country. As of 2006-02-22 Bryston will only warranty Bryston products purchased through authorized Bryston dealers. Bryston products with a date code of 0608 or higher (date code format is "yyww", where "yy" is the two least significant digits of the year and "ww" is the week of the year) must be accompanied by a copy of the bill-of-sale from a Bryston authorized dealer to qualify for warranty service. The warranty is transferable from the original owner to a subsequent owner as long as a copy of the bill-of-sale from the original authorized Bryston dealer accompanies the re-sale. The copy of the bill of sale to any subsequent owner need ONLY include the Name of the Bryston Authorized Dealer and the Model and Serial number of the Bryston product The warranty will only be honored in the country of the original purchase unless otherwise pre-authorized by Bryston.

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INTRODUCTION

Thank you for purchasing a Bryston B135 integrated amplifier. We are confident it will provide you with many years of musical enjoyment. We would welcome any suggestions or comments you may have regarding the operation of your Bryston amplifier.

In the unlikely event that your amplifier may require service Bryston recommends that you retain the original shipping box and packaging material for future use if required.

SETUP RECOMMENDATIONS

You may place your B135 integrated amplifier in any convenient location. If you have purchased the optional infra-red remote control, make sure you position the amplifier to maintain a direct line-of-sight between the hand-held remote and the IR sensor eye located on the front panel. If plugged in the B135 will remain in standby indicated by the RED power LED on the front panel.

The amplifier is powered up by engaging the power button located on the front panel of the B135 or by depressing the *POWER* button on the hand held remote control unit.. The B135 will power-up momentarily with mute engaged, indicated by the mute LED turning red on the front panel; it will then turn off within a few seconds. The *POWER* LED will stay lit green indicating normal operation.

CONNECTIONS

MAINS POWER INLET:

Mains power is connected to the B135 through an IEC-C14 power inlet on the rear panel. This inlet mates with an IEC-C14 connector. Use only an approved power cord for your location. Before connecting or disconnecting the power cord, make sure that the unit is powered off.

POWER CONDITIONERS:

Bryston urges caution in choosing a power conditioner for your audio/video system. Large power amplifiers can draw very substantial current from the wall plug, and many so-called power conditioners can in fact hinder the supply of current by inserting resistances in series with the line cord. However, there are now power conditioners that can reduce or eliminate RF and 'hash' from the AC supply and may actually improve current delivery to your system. This type of power conditioner (exemplified by 'TORUS' Power Conditioners) uses the energy storage in a large toroidal tranformer to provide high instantaneous power and reduce the substantial AC output resistance of the wall socket and house wiring. This resistance can be in the range of 0.5 to 1 Ohm and is typically reduced to only a few milliOhms by the Power Conditioner. That in turn considerably reduces Voltage drop in the power line on high current surges and quite substantially increases the stability of the power line improving audio (and video) focus, precision and clarity.

LOUDSPEAKERS:

Connect your loudspeakers, ensuring that the positive (red) and ground (black) terminals (gold-plated 5-way binding posts) on the Bryston B135 integrated amplifier are connected to the positive and ground terminals on your loudspeakers. Make certain the left and right speaker outputs on the amplifier are connected to your appropriate left and right loudspeakers.

SEPARATE PRE-AMP OUT & POWER AMP IN JACKS:

These two pair of RCA jacks allow for the independent use of the stereo amplifier section within a multi-channel audio or video system. On the rear panel there are connections labeled 'PRE AMP OUT' (preamplifier output) and 'POWER AMP IN' (power amplifier input) along with two slide switches (one per channel) labeled "Separate/Connect". This feature allows you to "separate or connect" the preamplifier section of the B135 from the power amplifier section thus producing a separate stereo preamp and separate stereo power amplifier.

WIRED (SERIAL DATA) REMOTE CONTROL:

There is one RS-232, one AUX IR input and two 12 volt trigger output connections as well. The RS-232 is bidirectional and allows for future software downloads from the Bryston website. It also interfaces with control systems such as Crestron and AMX.

CHASSIS GROUND:

A chassis ground thumb screw terminal is provided on the rear panel.

12 VOLT TRIGGER CONNECTOR:

These 12Vdc control outputs allow the B135 to exert on/off control over compatible equipment. See "REMOTE POWER CONTROL" for more information.

LINE LEVEL ANALOG AUDIO INPUTS:

The Bryston B135 integrated amplifier comes equipped with 8 pairs of gold plated analog RCA input connectors: *TV*, *CD*, *AUX-1/PHONO*, *AUX-2/SPDIF*, *VIDEO*, *TUNER*, *RECORD IN* and *POWER AMP IN*. All have and input impedance of 50K ohms

- **POWER AMP IN** is normally connected, internally, to **PRE AMP OUT** via the **CONNECTED/SEPARATE** slide switch located on the rear panel. When this switch is in the **SEPARATE** position, however, any line level audio input can be used at the **POWER AMP INPUT** jacks to drive the amplifier.
- In B135-DA models the AUX2 (D1/D2) input jacks accept only SPDIF PCM bit streams. They do NOT
 accept analog audio input signals.
- In B135-P models, which are equipped with a moving-magnet phono equalization module, the inputs labeled *AUX1/PHONO* accept moving magnet phono cartridge inputs. These inputs are NOT line level inputs in the B135-P and cannot be used as such.

LINE LEVEL ANALOG AUDIO OUTPUTS:

The Bryston B135 integrated amplifier comes equipped with 2 pairs of gold plated analog RCA jacks for outputs: **PREAMP OUT** and **RECORD OUT**.

- PREAMP OUT is normally connected, internally, via the CONNECTED/SEPARATE switch, to POWER AMP IN
- RECORD OUT output is not affected by volume, balance or mute controls.

DIGITAL AUDIO INPUTS:

In the B135-DA model, which contains a stereo D/A converter module, there are 4 digital audio inputs available.

TOSLINK: Two **TOSLINK** optical inputs are selected by pressing the **D3** (TOSLINK-1) or **D4** (TOSLINK-2)

buttons on the front panel (when in digital mode) or on the handheld remote.

SPDIF: Two **SPDIF** coaxial inputs can be connected to the B135-DA using the RCA input jacks labeled **D1**

and D2. To select these inputs first place the unit in digital mode by pressing the DIGITAL ➤ Select button on the front panel (or the A/D button on the handheld remote) and then press the D1 or D2 button on the front panel or on the remote). When the green LED above the font panel DIGITAL ➤ SELECT switch button in ON concurrently with either the D1 (CD), D2 (TUNER), D3 (TV) or

D4 (VIDEO) LEDs, then digital mode is engaged.

Note: When returning to an input the mode previously used with that input will be automatically re-selected. See also the *DIGITAL-to-ANALOG CONVERTER OPTION* section for more information.

HEADPHONE JACK:

There is a quarter inch headphone output jack available on the front panel of the Bryston B135 integrated amplifier. The headphone output is driven directly from the preamplifier section utilizing separate headphone buffers. Inserting the headphone jack mutes the loudspeakers automatically (indicated by the mute LED on the front panel turning red). The B135 **PREAMP OUT** is also muted.

You can adjust the volume setting of the headphones by using the volume control on the front of the B135 integrated amplifier. You may also utilize the remote control unit to adjust headphone volume. The headphones cannot be muted with the remote control unit or the front panel Mute. Only headphones with impedances of greater than 50 ohms should be used.

AUXILIARY IR INPUT:

This mono 1/8" (3mm) phone jack allows a direct connection to equipment whose remote control system provides an output from their infra-red LED drive circuit. The signal connected to this jack, which is expected to



be a 5 volt logic level, should be \geq 2.5Vdc and \leq 10Vdc. The *tip* of the phone jack is positive (+) and the *ring* is negative (-).

LED STATUS INDICATORS

CLIPPING: This LED (light emitting diode) will flash RED when the output waveform is clipped indicating an

overload condition.

MUTE: Lights RED to indicate the outputs are muted..

POWER: GREEN indicates normal operation

RED indicates Standby

Blinking RED/GREEN a fault or thermal overload problem in the unit.

ANALOG > Aux2 / DIGITAL > Select:

In B135-DA models: when this LED is illuminated green concurrently with either *D1*, *D2*, *D3* or *D4* LEDs, it indicates that the digital inputs *D1* (SPDIF), *D2* (SPDIF), *D3* (TOSLINK) or *D4* (TOSLINK) have been selected.

In B135 & B135-P models: when illuminated green this LED indicates that the line level analog audio input *AUX-2* has been selected.

AUX1, CD, TUNER, TV/SAT VIDEO & RECORD:

One of these input source LEDs will light green to Indicate the active input. In digital mode these LEDs will light RED if the bit stream is either absent or unacceptable.

BALANCE

When the left/right signal balance is being shifted one of these LEDs will light to indicate which channel is being attenuated. Balance can be adjusted in 1dB increments to up to -6dB in either direction. Stepping past -6dB in either direction will mute that channel fully and the LED for that channel will turn red.

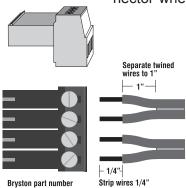
When both LEDs are on (red), PASS THROUGH mode is indicated. (See "Pass Through Mode" on page 4)

Note: In some markets the LED indicators, which are normally red/green, may be red/blue instead. When red/blue LEDs are supplied green is replaced with blue and orange is replaced with magenta in the above descriptions.

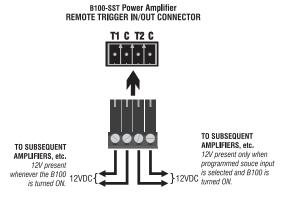
REMOTE POWER CONTROL ~ 12 VOLT TRIGGER CONNECTOR

is removed.

Two trigger outputs are provided. A 12Vdc signal is placed across the *T1* and *C* pins of the *12V TRIGGERS* connector whenever the unit is fully powered up. Then the unit goes into standby this voltage



A 12Vdc signal will be placed across the other pair of 12V TRIGGER output pins (T2) whenever a certain user programmed input is selected as the source input (see below for programming instructions). When any other input source is selected the 12Vdc control voltage will be removed from these pins. Please note that C means "common" here and both C pins are electrically connected and identical.



PROGRAMMING THE "T2" 12V TRIGGER OUTPUT

By default the **72** triggered output is inactive. To program this output to become active, whereupon a control voltage of 12Vdc will appear across **72** & **C** terminals whenever a specific source is selected, use the

handheld remote control as follows:

- Select the source that you want to coincide with 72 going active.
- While pointing the remote control at the B135, press the CODE button, followed by the three digit code "247" using the keys numbered 1 through 0 in the illustration at the left. On your remote control these keys, or buttons, are labeled AUX/PH (2), TUNER (4), D1 (7).
- The three digit code should be entered within a few seconds of pressing *CODE* button or the unit will automatically return to normal operation.
- To clear the 72 trigger output, press the CODE button followed by the 3 digit code "248": AUX/PH (2), TUNER (4), D2 (8).



HAND-HELD INFRA-RED REMOTE CONTROL

A full function hand-held infra-red remote control is available for the B135 integrated amplifier as an extra-cost option. The hand held remote unit is powered by two "AAA" batteries. To change the battery remove the bottom cover plate by removing the four Philips screws on the rear of the remote unit. Ensure that the batteries are correctly oriented and properly seated in the battery holder.

The BR2remote is a full function remote allowing selection of all sources, volume up or down (the volume control is a motor-driven design), mute ,left/right balance, power on/off and discrete code entry. We recommend maintaining a direct line-of-sight between the hand held remote unit and the front of the B135 to ensure the most efficient operation of the remote features.

PROGRAMMING THE HANDHELD REMOTE CONTROL

The automatic motion-sensing backlight function in the handheld infra-red remote control unit can be disabled by entering the 3 digit code "792" as follows:

- 1) Press and hold the *CODE* button for 5 seconds. Release when the LED flashes red.
- 2) After the LED stops flashing, enter the 3 digit code "792" by pressing the buttons **D1**, **D3** then **AUX/PH** (see illustration on page 3)
- 3) To re-enable the motion-sensing backlight function, repeat steps 1 and 2 above

To completely disable the backlight, enter the 3 digit code "797" as follows:

- 1) Press and hold the **CODE** button for 5 seconds. Release when the LED flashes red.
- 2) After the LED stops flashing, enter the 3 digit code "797" by pressing the buttons **D1**, **D3** then **D1** (see illustration on page 3)
- 3) To re-enable the backlight repeat steps 1 and 2 above.

SENDING CODES TO THE B135 VIA THE IR REMOTE CONTROL

Press the CODE button on the remote control (the red LED will light) and then enter the 3 digt code, as listed in the "Wired RS232 Remote Control" section" below. The LED will flash to confirm transmission and then extinguish.

WIRED RS232 REMOTE CONTROL

Using the DB9-female connector at the rear of the unit, the B135 can receive commands via a null modem cable at 9600 baud, 8 data bits, no parity and 1 stop bit (9600,8,N,1). Valid commands will return the ">" character indicating that the unit is ready to receive a new command. An invalid command will return the "!" character. These serial data commands are as follows:

| 000 - power off | 015 - power on/off toggle | 081 - select digital source 1 (D1) |
|---------------------------------------|-----------------------------|---|
| 001 - select analog source 1 (A/D) | 019 - balance left | 082 - select digital source 2 (D2) |
| 002 - select analog source 2 (AUX/PH) | 020 - balance right | 083 - select digital source 3 (D3) |
| 003 - select analog source 3 (CD) | 029 - power on | 084 - select digital source 4 (D4) |
| 004 - select analog source 4 (TUNER) | 058 - mute on | 245 - set/reset Pass Through mode |
| 005 - select analog source 5 (TV) | 059 - mute off | 247 - Set <i>Trigger 2</i> for current source |
| 006 - select analog source 6 (VIDEO) | 061 - record monitor toggle | 248 - Clear <i>Trigger 2</i> for current source |
| 007 - volume up | 062 - record monitor on | 255 - System reset; restore defaults |
| 008 - volume down | 063 - record monitor off | |



PASS THROUGH MODE

PASS THROUGH mode sets the pre-amp gain to 1 (unity gain) and locks out the volume & balance controls for any single analog audio source. For example, if the Front Left and Front Right outputs of a home theater surround sound processer were connected to the *TV* input of the B135, and then *PASS THROUGH* was engaged then whevever *TV* input is selected the volume and balance controls would be locked at unity gain. If other inputs were subsequently selected, volume and balance controls return to normal operation for those other input sources. Only the TV inputs would be locked at unity gain. PASS THROUGH mode, therefore, can only be assigned to one input at a time, but that input can be any one of the analog audio inputs. The power amplifier stage is not affected by PASS THROUGH mode. PASS THROUGH mode can only be set (or reset) by sending the 3 digit code "245" to the B135 either from the handheld IR remote control or via the RS232 serial data input. See "Sending Codes to the B135 via the IR Handheld Remote Control" & "Wired RS232 Remote Control". To reassign PASS THROUGH mode to a different input source simply select the desired input and re-send the "245" code to the B135. To turn the deactivate PASS THORUGH mode, select the current *Pass Through* input and then send the "245" code to the B135. The "245" toggles PASS THROUGH mode on and off.

DIGITAL-TO-ANALOG (D/A) CONVERTER OPTION

The B135-DA comes equipped with stereo Digital-to-Analog converter (D/A or DAC) module. This module is also retrofittable to standard B135 units.

A unique feature of the B135-DA is its ability to utilize up to four independent digital sources (two SPDIF and two TOSLINK). These four digital inputs can be accessed by selecting **D1**, **D2**, **D3** and **D4** sources with the DAC feature enabled (by pressing the **DIGITAL** > **Select** button on the left end of the front panel).

Activate the DAC feature by pressing the **DIGITAL** > **Select** (AUX 2) button on the left side of the front panel (or **A/D** on the remote). The LED below the **DIGITAL** > **Select** button will turn Green. Pressing any of the following four buttons will cause their LEDs to light green, as well, to indicate a PCM digital source is present and connected properly.

- SPDIF 1 is accessed by selecting **D1** on the front panel or the remote.
- SPDIF 2 is accessed by selecting **D2** on the front panel or the remote.
- Optical 1 is accessed by selecting **D3** on the front panel or the remote.
- Optical 2 is accessed by selecting D4 on the front panel or the remote.

The source LED's will turn GREEN when a PCM digital bit stream is present. If there is no bit stream available or an incorrect bit stream (NON-PCM) the LED will turn RED.

You may re-select Analog by simply depressing the **DIGITAL** > **Select** (AUX 2) button once more and the LED will extinguish.

All of the above functions are available from the hand held remote control as well.

MOVING-MAGNET PHONO STAGE OPTION

The B135-P contains a *moving magnet* phono stage. The Phono Stage is modular and can be added to the standard B135 model later if required by your Bryston dealer.

Bryston's MM Phono section features state-of-the-art accuracy in equalization, extremely low noise and distortion, and provides headroom margins sufficient to prevent overload from any known phono source. To access the Phono section simply plug your left/right turntable interconnect leads into the left/right AUX-1/PHONO inputs on the rear panel of the B135 and press the AUX-1/PHONO button on the front panel. The AUX-1/PHONO LED will turn green. If your turntable provides a separate ground lead, system noise may be minimized by connecting it to the ground lug in the center of the rear panel.

B135 SPECIFICATIONS

POWER AMPLIFIER SECTION:

POWER OUTPUT: Nominal: 135 watts/channel into 8Ω

Maximum: 165 Watts/channel at onset of clipping into 8Ω @ 1 KHz

1/8th max: 20.6 Watts per channel into 8Ω @ 1KHz

50K ohms single ended **INPUT IMPEDANCE:**

1v = 100 Watts into 8 ohms (gain = 28.28 or 29dB)SENSITIVITY:

DISTORTION: THD+noise: < 0.005% 20Hz to 20kHz at 135 Watts into 8 ohms.

< 0.005% 60Hz + 7KHz mixed 4:1 IMD:

>108dB below rated output (with 20Hz to 22KHz bandpass filter) NOISE:

>60 volts per microsecond **SLEW RATE:** <1 Hz to over 100 kHz POWER BANDWIDTH:

Over 500 at 20 Hz. ref. 8 ohms DAMPING FACTOR:

PREAMPLIFIER SECTION:

FREQUENCY RESPONSE: 20Hz to 20KHz, ±.05dB

<.003% IMD OR THD: HIGH LEVEL SENSITIVITY: 500mV

NOISE: 100dB @ 20Hz to 20KHz (ref: 1V input)

GENERAL:

POWER CONSUMPTION: Maximum: 609 Watts (both channels at onset of clipping)

> @ 100∨AC line voltage ≈ .85Watts Standby:

@ 120 \vee AC line voltage ≈ .98 \vee BWatts @ 220∨AC line voltage ≈ 1.8Watts @ 240 VAC line voltage ≈ 2.0 Watts

SHUT DOWN VOLTAGE: When line voltage drops below these levels the amplifier will automatically

shut down.

100VAC models $\approx 78 \text{ VAC}_{\text{shutdown}}$ 120 VAC models $\approx 81 \text{ VAC}_{\text{shutdown}}$ 220 VAC models \approx 190 VAC_{shutdown}

240 VAC models ≈ 195 VAC_{shutdown}

At maximum output power, both channels driven at 160W_{out} ≈ 986btu/hr **HEAT LOAD:**

At 1/8th output power, both channels driven at 20W_{out} ≈ 594btu/hr

Standby mode: for 120VAC models ≈ 3.35 btu/hr for 220VAC models ≈ 6.83 btu/hr

DIMENSIONS: 17" or 19" wide X 4.55" high X 14" deep

(433 or 483mm X 116mm X 353mm)

approx. 30 lbs (13.6kg.) **WEIGHT:**



INPUT SELECT BUTTONS ~ DIGITAL MODE (BP135-DA only) When the LED above the AUX-2 (DIGITAL > Select) switch is illuminated green concurrently with either the D1 (CD), D2 (TUNER), D3 (TV) or D4

(VIDEO) LEDs, the unit is in DIGITAL MODE. The D1, D2, D3 or D4 buttons are then used to select one of the 4 digital audio inputs.

Press the **D1** button: **SPDIF 1** source is selected Press the D2 button: SPDIF2 source is selected TOSLINK 1 source is selected Press the D3 button: TOSLINK 2 source is selected Press the D4 button:

INPUT SELECT BUTTONS ~ ANALOG MODE

When only one of the source select LEDs is illuminated the unit is in ANALOG MODE. The name under the button is the source selected. Exceptions are as follows:

- In B135-P models, the AUX-1/PHONO LED indicates that the moving-magnet phono input is selected.
- In B135 & B135-DA models the AUX-1/PHONO LED indicates that the analog audio AUX-1 input is selected.

POWER BUTTON & LED

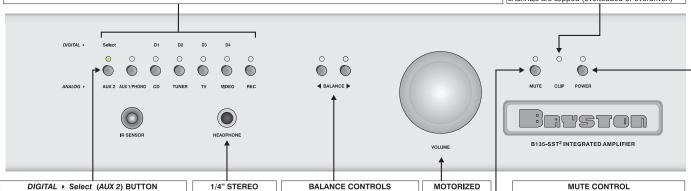
This button toggles the power on & off. The LED indicates the following:

GREEN: normal operation RED:

standby receiving valid data Blinking RED Blinking RED/GREEN: thermal overload or other fault

CLIPPING LED

When illuminated RED indicates that either or both channels are clipped (overloaded or overdriven)



DIGITAL → Select (AUX 2) BUTTON

In B135-DA models, pressing this button switches between Analog and Digital Input modes. See notes above and in "CONNECTIONS" section of this manual

In B135 & B135-P models, this button selects the line level analog audio AUX-2 input.

1/4" STEREO (3 conductor) HEADPHONE JACK.

It is recommended that this jack be used only with headphones having >50 ohms impedance. Plugging in a 1/4" phone plug will automatically mute the power amplifier outputs and the MUTE led will

BALANCE CONTROLS

VOLUME CONTROL

Can be operated

manually or via the

remote control.

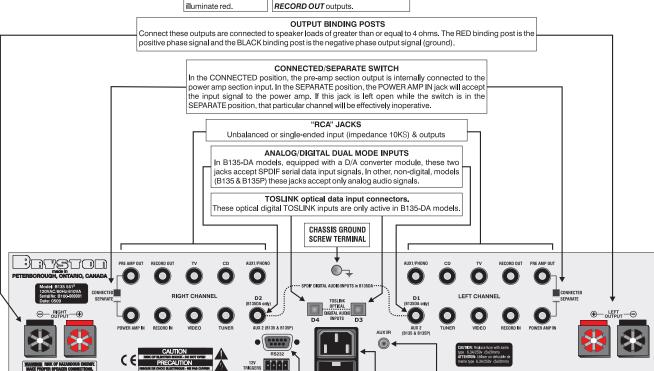
Adjusts the left versus right channel levels. Pressing the left (4) or right (1) buttons will attenuate that channel by 1 decibel for each press of the button. When either channel is attenuated this way, the LED above the affected channel will be illuminated green Pressing the button a 7th time will cause that channel to fully mute and the LED above the button will light red.

The balance control does not affect the

MUTE CONTROL

Pressing this button mutes both power amplifier channels fully and the LED lights red. Pressing the button again releases the mute condition and the LED extinguishes.

The mute control does not affect the RECORD OUT outputs or the headphone outputs



12V REMOTE TRIGGER CONNECTOR

A 12Vdc signal appears across the T1~C terminals whenever the B135 is ON. A 12Vdc control signal also appears across the T2~C terminals whenever a pre-programmed input source is selected. Refer to "Programming the 'T2' 12v Trigger Output" and "Remote Power Control ~ 12 Volt Trigger Connector" in the "B135 Owner's Manual" for more information.

RS232 JACK For remote control rom computer or other suitably

Accepts one 5mm X 20 mm fuse Replace only with same type of fuse equipped controllers listed on adjacent label. Always such as Crestron & AMX remove power cord before opening fuse drawer.

FUSE DRAWER

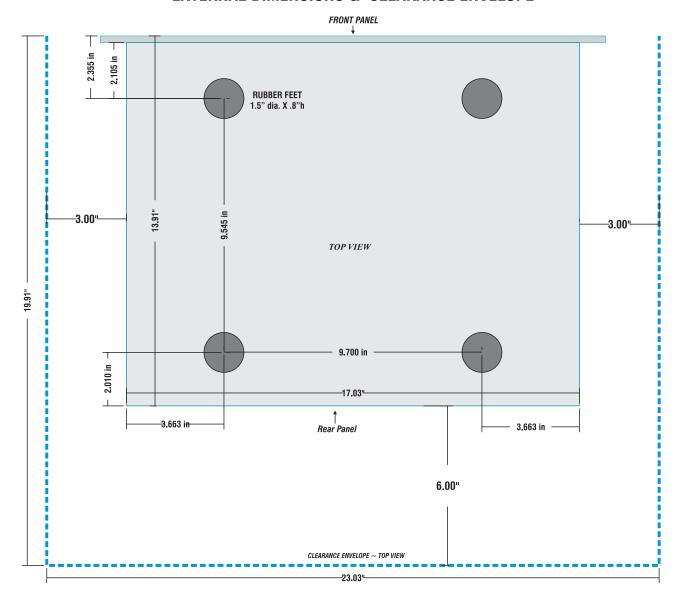
IFC-320 POWER INLET

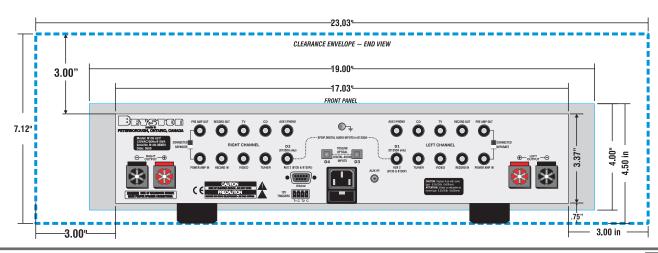
For connection to infra-red LED drive circuits of Use only approved IEC-320 power compatible remote control cords equipment. Tip of the 1/8' (3mm) 2 conductor phone plug is positive (+) and the ring is negative (-). Input signal should be ≥2.5Vdc and ≤10Vdc

AUX IR Input

B135 INTEGRATED AMPLIFIER

EXTERNAL DIMENSIONS & CLEARANCE ENVELOPE







There are no user serviceable parts inside the B135. Please refer any servicing to qualified personnel.