

# **BRYSTON OWNER'S MANUAL**

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**Instructions For**  

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**Bryston Integrated Amplifier**  

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**Model B - 60**  

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# GENERAL INSTRUCTIONS

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## Setup Recommendations:

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Thank you for purchasing a Bryston B-60 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.

You may place your B-60 integrated amplifier in any convenient location, with one possible exception. If you own the remote-control version, position the amplifier to maintain a direct line-of-sight between the hand-held remote and the remote sensor eye located on the right side of the front panel.

All Bryston power amplifiers contain high quality, dedicated circuitry in their power supplies to reject RF, line spikes and other power-line

problems. Bryston amplifiers do not require any specialized power line conditioners. Simply plug the amplifier directly into a wall socket or power bar.

The amplifier is powered up by engaging the power toggle located on the front panel of the B-60. The B-60 will power-up momentarily with mute engaged, indicated by the pilot light turning red on the front panel. It will then quickly turn green signifying normal function.

If you have the remote control version of the Bryston B-60 please refer to the section on the remote control unit on page 3.

Bryston recommends that you retain the original shipping box and packaging material for future use if required.

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## Connections:

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Connect your loudspeakers, ensuring that the positive (red) and ground (black) terminals (gold-plated 5-way binding posts) on the Bryston B-60 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 the appropriate left and right loudspeakers.

Connect your CD player, tuner, tape deck, video recorder, or laser disc, etc. to the

appropriate left and right RCA inputs.

The tape loop may be used to insert a surround sound processor, cassette tape deck or video tape recorder into your system. Plug your tape deck or external processor's input cables into the 'To Tape' jacks, and the processor or deck's output cables into the 'From Tape' jacks on the rear of the amplifier. The tape or processor loop may be monitored via the toggle switch located on the front panel of the B-60.

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## Pre-Out, Power-In Connections:

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On the rear panel there are connections labeled 'PRE OUT' (preamplifier output) and 'PWR IN' (power amplifier input). Please refer to diagram on page 4 for further clarity. This feature allows you to separate the preamplifier section of the B-60 from the power amplifier section by removing the 'jumpers'. Simply pull the two 'U' connectors straight out with the **power** to the amplifier turned **off**. Store them in a safe place for future use.

These pre-out/power-in connectors provide for complete separation of the preamplifier and power amplifier sections. This allows you to easily accommodate the integration of a surround sound processor into your system and still maintain the control functions available on the front panel of the B-60. It also allows the independent use of the stereo amplifier section within a multi-channel audio or video system.

# BRYSTON B -60 INTEGRATED AMPLIFIER

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## Input and Output Connectors:

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The Bryston B-60 integrated amplifier comes equipped with 4 pairs of RCA input connectors, 1 pair of tape loop connectors, 1 pair of pre-out/power-in connectors and 1 pair of five-way binding post loudspeaker outputs.

All input and output connectors are gold-plated. Only cables with high quality gold plated connectors should be used with your amplifier to avoid noise and distortion from the corrosion

which will eventually appear on poorly plated or gold-flashed cable connectors.

Bryston offers high quality very low capacitance interconnect cables with custom RCA connectors gold-plated to 20 microinches, (30 times heavier than standard gold-flashed cables). Standard 1 and 2 meter, or custom-length cables, are available by contacting any authorized Bryston dealer or distributor.

## Headphone Output:

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There is a quarter inch headphone output jack available on the front panel of the Bryston B-60 integrated amplifier.

The headphone output is driven directly from the preamplifier section. We recommend the use of headphones with input impedances between 50 ohms and 600 ohms. Headphones with input impedance values above 600 ohms may experience some problems attaining sufficient volume levels.

Inserting the headphone jack mutes the loudspeakers automatically (indicated by the power LED on the front panel turning red) by dis-

connecting the preamplifier section from the power amplifier section.

You can adjust the volume setting of the headphones by using the volume control on the front of the B-60 integrated amplifier. You may also utilize the remote control unit to adjust headphone volume if your unit is so equipped. The headphones can not be muted with the remote control unit.

Use **caution** when disconnecting the headphones as the loudspeakers will power up at the level setting indicated by the front panel volume control.

## Bryston B-60 Remote Control:

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The Bryston model B-60 is available with an optional hand-held remote control unit. It provides for remote volume up or down and full signal mute. The volume control is a motor-driven design. This approach ensures significantly lower distortion on the audio signal than VCA's or DAC's.

Pressing the mute button on the remote control will fully mute the output from the preamplifier section. The power LED on the front panel will turn from green to red. To un-mute the amplifier simply push the mute button again or press the volume up button.

The mute function on the remote control

will not function if using headphones.

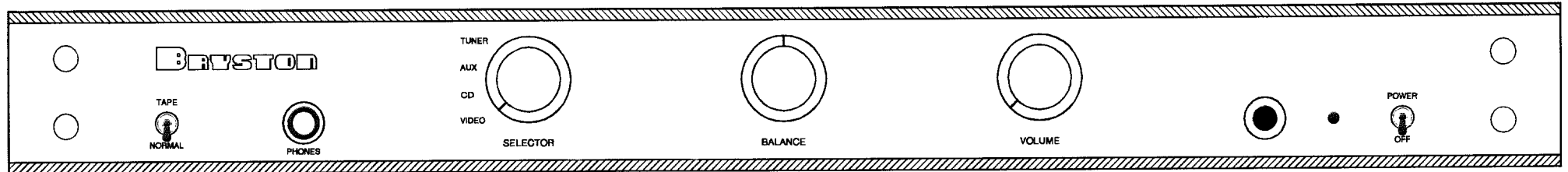
The hand held remote unit is battery operated. To change the battery simply unscrew the two Phillips screws on the rear of the remote unit, lift the 'U' shaped metal top clear of the remote control circuitry and replace the old battery with a fresh 9 volt alkaline type. Ensure the positive and negative connections between the battery and the remote unit are the correct polarity and properly seated.

We recommend maintaining a direct line-of-sight between the hand held remote unit and the front of the B-60 to ensure the most efficient operation of the remote features.

# BRYSTON

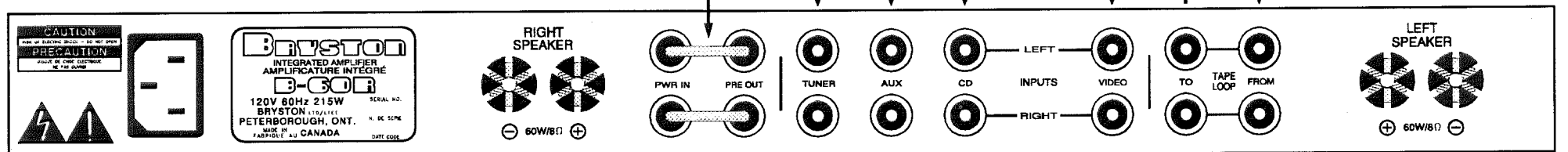
## B60 INTEGRATED AMPLIFIER

FRONT VIEW



USE HEADPHONES WITH IMPEDANCE  
OF 50 OHMS OR GREATER ONLY.  
(USING PHONES MUTES PRE AMP OUTPUT).

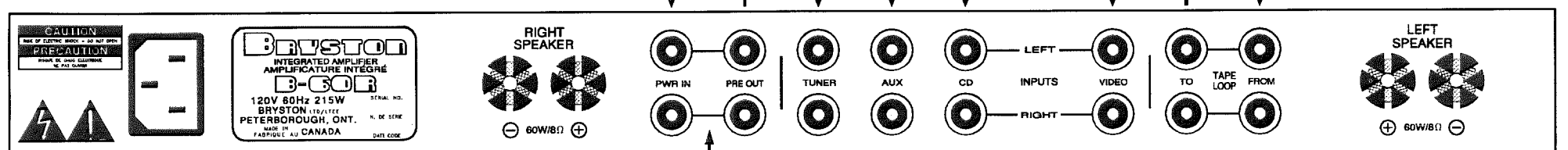
REAR VIEW



IMPEDANCE LESS THAN 4 OHMS  
NOT RECOMENDED

IMPEDANCE LESS THAN 4 OHMS  
NOT RECOMENDED

REAR VIEW



REMOVE "U LINK" CONNECTOR  
TO INSERT PROCESSOR

# BRYSTON B -60 INTEGRATED AMPLIFIER

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## B-60 Functions:

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### FRONT PANEL:

#### POWER SWITCH:

Toggle down: - indicates power off.  
Toggle up: - LED GREEN indicates normal operation.  
- RED indicates preamplifier output muted.

#### VOLUME:

Rotary control varies the output level to the 'PRE OUTPUTS', (does not effect 'TO TAPE' outputs).

#### BALANCE:

Rotary control adjusts the left-versus-right channel levels. The Balance Control is a tailored-inflection type which has very gradual action near the center of rotation allowing fine adjustments to the stereo image. For convenience the electrical center of the control is detented (does not effect 'TO TAPE' outputs).

#### SOURCE:

Rotary knob, determines which input will appear at the 'TO TAPE' outputs for recording or processing, as well as determining which program is available at the Pre outputs. (When the 'TAPE/SOURCE' switch is in 'Tape' position, 'FROM TAPE' inputs appear at Pre Outputs) for monitoring.

#### TAPE/SOURCE SWITCH:

Source (down) position monitors whichever input is selected at the rotary SOURCE selector knob. Tape (up) position provides monitoring of the 'FROM TAPE' input for A/B comparison with the source. Should an external processor or equalizer be connected in the TAPE LOOP, the "TAPE/SOURCE" switch will act as an in/out switch for the external equipment.

#### HEADPHONE OUTPUT:

Allows monitoring of any input source with the use of headphones. It is recommended that you use headphones with input impedances greater than 50 ohms for optimal performance.

#### REMOTE SENSOR EYE:

Senses infra-red command signals from hand held remote control unit.

### BACK PANEL:

#### POWER INPUT:

Plug female end of supplied power cord into socket on rear of B-60. With power toggle turned off (down) and the volume control fully clockwise plug in the male AC power cord to the appropriate power outlet.

#### RCA INPUTS:

Left channel and right channel input connectors are gold plated female style RCA Phono jacks. Input sensitivity is 500mv, input impedance is 50K ohms. The 'FROM TAPE' input impedance is 10K ohms.

#### TO-TAPE-FROM:

The 'TO TAPE' outputs are selected by the rotary "SOURCE" knob and are provided as a recording output. This feed is unaffected by the operation of other front panel controls. The 'FROM TAPE' (unbalanced RCA) input is useful for monitoring tape playback or processed audio signals. Moving the "Tape/Source" toggle to 'Tape' (up) position monitors the recorded signal on recorders equipped with a separate playback head, or the processed signal when using a signal processor. Input sensitivity is 500mv, input impedance is 10K ohms.

#### PRE-OUT, POWER-IN:

Removing the two 'U' connectors provides for complete separation of preamplifier section from power amplifier section. Input impedance on power amplifier is 50K ohms.

#### LOUDSPEAKER OUTPUTS:

Output connectors consist of two pairs of red/black 5-way binding post terminals, which can accept standard banana plugs, spade lugs, pins, or bare wire. Since the binding posts are gold-plated, we recommend gold plated connectors also be used on the speaker cables for optimum long term low-distortion performance. We also recommend that loudspeaker wire of at least 16 gauge be used for maximum performance.

### FUSES

There are no user serviceable external fuses.  
If unit does not power up please refer to qualified personal.

# **BRYSTON 20 -YEAR WARRANTY**

Bryston products are warranted to be free from manufacturing defects for a minimum of twenty years from the original date of manufacture. This includes parts, labour and return shipping to the first owner and all subsequent owners. Warranty coverage is automatic and commences with the original date of manufacture which is kept on file at Bryston.

In the event of a defect or malfunction, Bryston will remedy the problem by repair or replacement, as we deem necessary, to restore the product to full performance.

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 comply with Bryston operating instructions.

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.

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