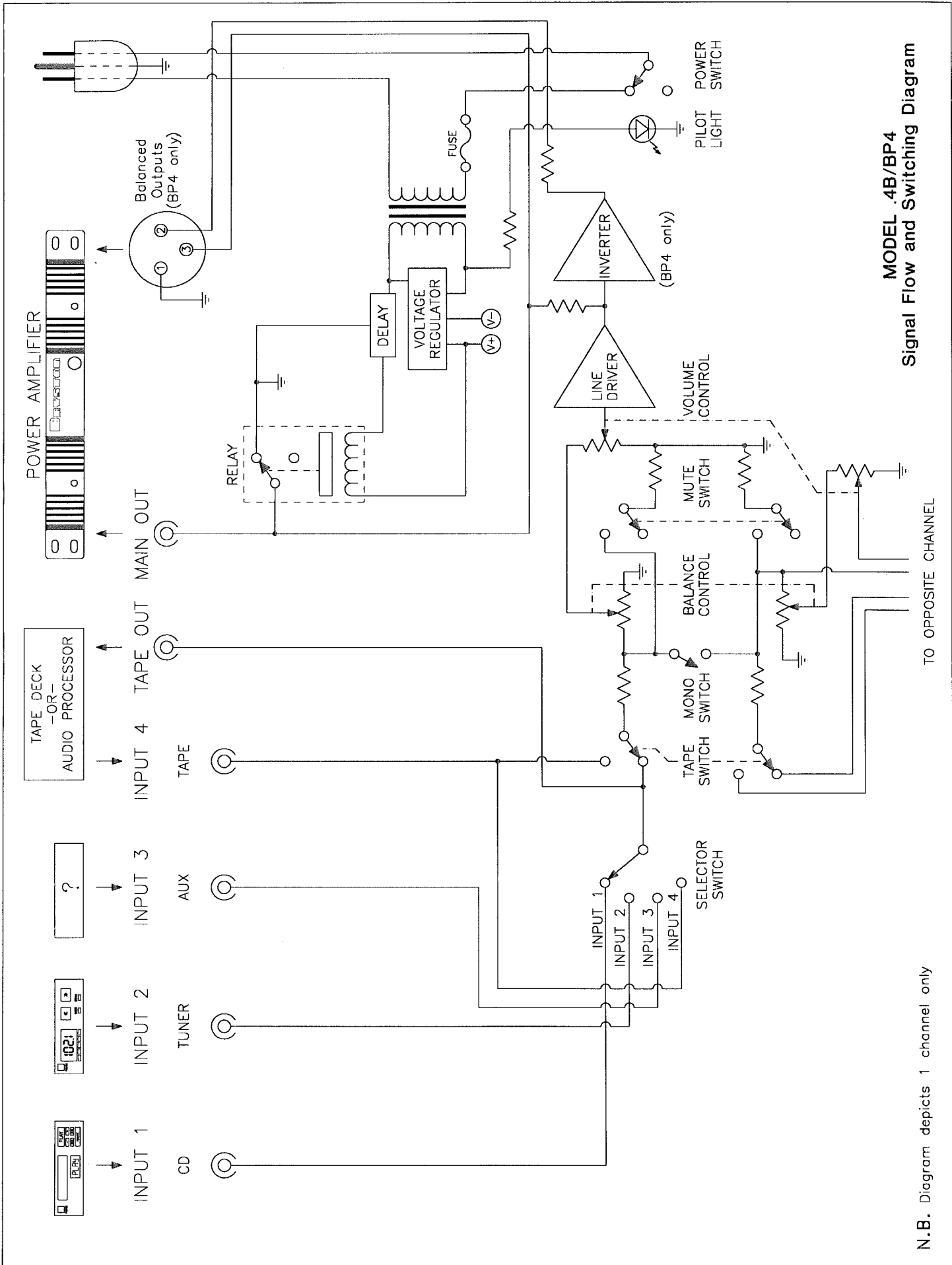


**BRYSTON**

**4B/BP4**

**PREAMPLIFIERS**



**MODEL .4B/BP4**  
Signal Flow and Switching Diagram

TO OPPOSITE CHANNEL

N.B. Diagram depicts 1 channel only

# BP4 PREAMPLIFIER

Congratulation on choosing a Bryston .4B/BP4 preamplifier. The .4B series preamps have been designed to be musically transparent and to present the most realistic acoustical picture with a minimum of frills and gadgets. We feel confident that Bryston components will improve your system to a truly startling degree. Please write or call if you have questions or comments. Your opinion is important to us.

## SELECTOR SWITCH

For convenience, all inputs are available at the selector switch, including the input which has access to the monitor switch. The output of the selector switch always goes directly to the tape outputs and connects to the volume control when the monitor (tape)switch is in the 'out' position.

## TAPE MONITOR SWITCH

The monitor switch connects the tape or line inputs directly to the volume control and through to the main outputs when in the active (IN or depressed) position. This allows for the convenient monitoring of both the input side and output side of the tape when using a recorder with a separate playback head. The output from the tape recorder is connected to the tape input jacks on the .4B/BP4. Pushing the switch in activates the monitor function.

This switch also allows the inclusion of an external processor loop such as an equalizer or noise reduction unit. In this case, the processor is fed from the .4B/BP4's tape output jacks and the output from the processor is returned to the .4B/BP4's tape inputs. The external processor is included in the listening chain when the switch is IN (depressed) and bypassed when the switch is out thus allowing for quick comparison. Do not turn to the monitored input on the (rotary) selector switch when using the loop this way or you will cause feedback which will be audible through the speakers.

## MONO SWITCH

On occasion a system will require a mono signal for purposes of cancelling a portion of the noise on a monaural recording or for the convenience of preadjustment of the balance control. This switch is active in the IN or depressed position and simply combines the two channels. It is completely removed from the circuit when inactive.

## MUTE SWITCH

If the listener wishes to reduce the volume momentarily, such as when changing LPs or to answer a call without disturbing the volume control setting, the mute switch provides a convenient 20dB reduction in listening level. MUTE is active in the IN or depressed position.

## BALANCE CONTROL

The balance control is a tailored inflection type which has very gradual action near the centre of rotation for fine adjustments to the left-right balance of the stereo image. In addition, Bryston's balance controls slightly increase the gain in the favoured channel as the opposite channel is being reduced to maintain the average balance in the room at a stable level.

## TURN-ON DELAY

The .4B/BP4 utilizes an output shunting relay with an approximate 3 second delay at start up to allow any system transient thumps to settle out before connecting the signal to the power amplifier(s). The relay disconnects the signal again instantly when the preamplifier is switched off to prevent any power supply decay artifacts from reaching the outputs. The relay employs multiple gold contacts faces per channel for maximum long term reliability and does not connect to the signal path when the preamplifier is operating.

## **BALANCED OUTPUT ("BP4") OPTION**

The .4B is optionally available with one pair of balanced outputs using gold plated, 3pin (male) XLR connectors. When thus equipped, the .4B is called a BP4. Besides the additional pair of balanced outputs the .4B and the BP4 are identical.

## **WARRANTY**

Bryston products are warranted to be free from manufacturing defects for a minimum of twenty years from date of original purchase, including parts, labour and return shipping to the first and all subsequent owners. Warranty coverage is automatic and commences from the date of the original dealer's bill of sale (which is the sole proof of purchase date).

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. Warranty service may be obtained by returning the unit to any Bryston retail dealer. If it cannot be returned to a Bryston retail dealer, write or call:

in Canada:

BRYSTON LTD.  
P.O. BOX 2170  
677 Neal Drive  
Peterborough, Ontario  
K9J 7Y4

(705) 742-5325

in the United States:

BRYSTONVERMONT  
RFD. 4, Berlin  
Montpelier, Vermont  
USA  
05602

(802) 223-6159

The warranty is 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 follow Bryston operating instructions. This warranty gives you specific legal rights and you may also have other rights which may vary from province to province or from state to state.