

BRYSTON

BPS

PREAMPLIFIER

BP5 PREAMPLIFIER

LOW FILTER

The inflection point of the rumble filter has been set at 31.7Hz to correspond to the lowest signal frequencies likely to be found on LP phonograph disks. The filter has a gradual slope of 6db per octave below this frequency to avoid transient overshoot, ringing and phase anomalies. The warp frequencies on LP phonograph disks are confined almost exclusively to the area of 2 to 5 Hertz and this range is attenuated by an average of 20dB, or a power factor of 100, to prevent overload and intermodulation distortion effects in the low frequency drivers of your loudspeakers. The low filter is active in the IN or depressed position.

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.

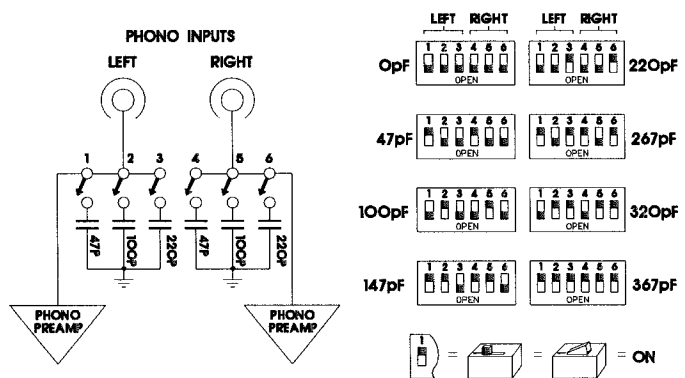
TAPE SWITCH

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 BP5. Pushing the switch in activates the monitor function.

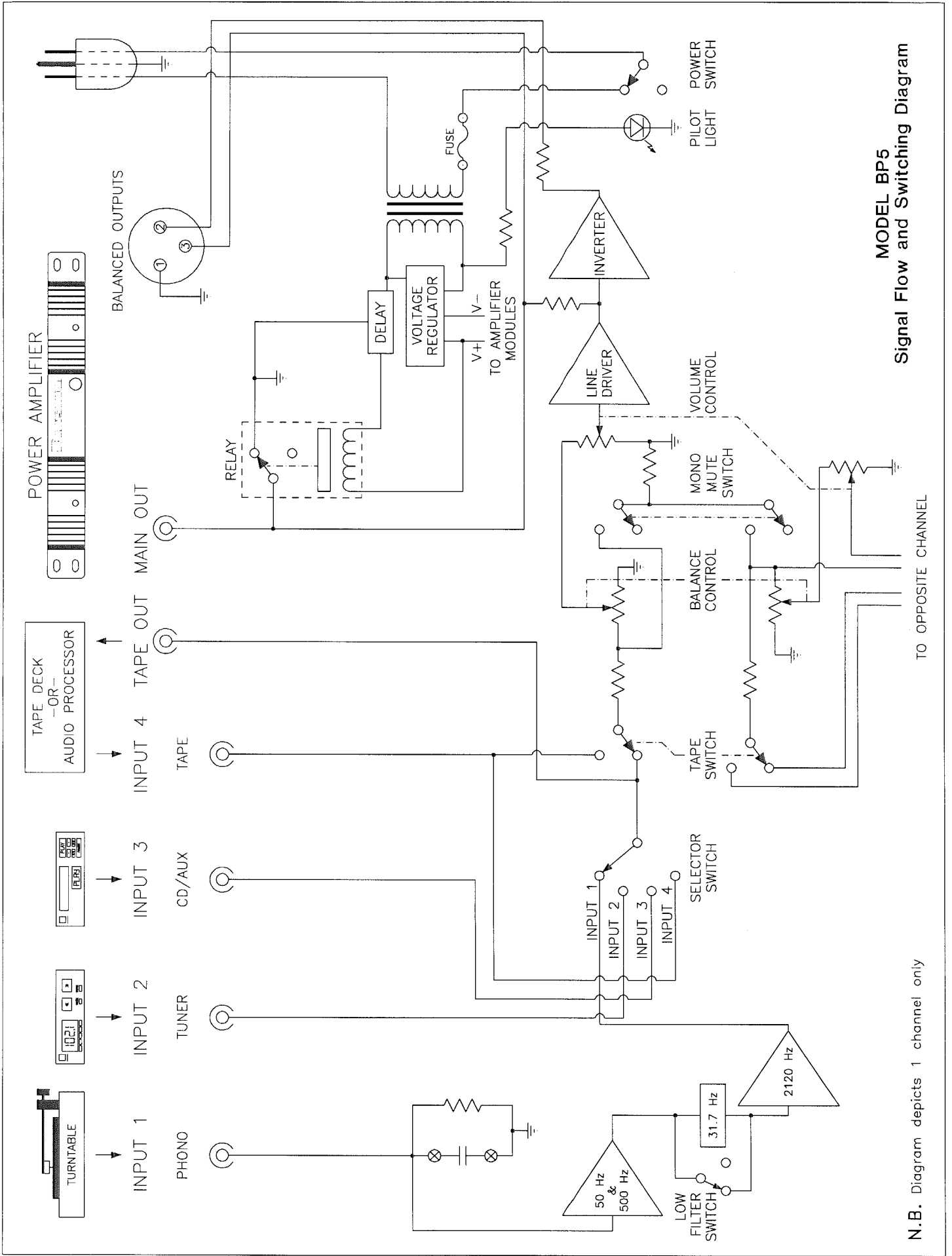
This switch also allows the inclusion of an external processor loop such as an equalizer or noise reduction unit. In this case, the processor is fed from the BP5's tape output jacks and the output from the processor is returned to the BP5's tape inputs. The external processor is included in the listening 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.

PHONO INPUT CAPACITANCE LOADING SWITCH (optional)

This switch is comprised of a six element DIP (Dual In Line) switch and six high precision polystyrene capacitors to add the correct amount of capacitance across the phono cartridge to ensure accurate performance. Each switch adds in one capacitor. As each capacitor is switched in the total capacitance increases cumulatively. Switches 1 to 3 add capacitance to the LEFT input, and switches 4 to 6 add capacitance to the RIGHT input. Any or all of the DIP switches may be activated (placed in the ON or CLOSED position) at one time or, if all switches are off (open), then no capacitance is placed across the phono inputs.



Refer to information supplied with your phono cartridge to determine the correct amount of capacitance.



MODEL BP5
Signal Flow and Switching Diagram

N.B. Diagram depicts 1 channel only

Combined MONO+MUTE SWITCH

On occasion a system will require a mono signal for preadjustment of the balance control. This switch, active in the IN or depressed position, will combine both left and right signals. 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. Since both MUTE and MONO functions are combined in the same switch (the left and right signals are both combined and muted by 20dB when the switch is pushed IN or depressed) you will be required to advance the volume control sufficiently to the desired level if monaural listening is desired. *Don't forget to reduce the volume control setting again before deactivating the MONO+MUTE switch in this case or you may be startled by the sudden increase in sound level.*

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 BP5 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.

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.