



# BRYSTON

Vinyl | 2017



# BLP-1 & BTP-1 Turntable System



**N**ever say never. Even one year ago, Bryston said we would never build a turntable. What changed? While developing the new phono preamplifier model BP2, the wide bandwidth and low distortion of our new gain stages reminded us how breathtaking and fresh 'high resolution' vinyl listening can be. So we turned next to the source.

Mount your choice of cartridge and connect to a Bryston BP2 or other high performance phono preamplifier to enjoy exceptional sound quality and rediscover your records long forgotten. Or hear more subtleties than ever from familiar titles.

Bryston sought to achieve sonic neutrality by focusing on two specific performance criteria: resonance control for detail and resolution and pitch accuracy for tonal richness. Bryston has created a stunning turntable system that solves these age old problems with creative and modern engineering.



## TONARM

The unique titanium wand profile features six segments each with a different diameter to effectively disperse non musical vibrations. The arm smoothly rotates on four micro ceramic permanently lubricated bearings. Two counterweights permit coarse and fine VTF adjustment. VTA adjustment is on the collar. Mount the cartridge of your choice on the fixed headshell with azimuth adjustment.

## POWER SUPPLY

The quality of all audio electronics begins at the power source. Ultimate speed consistency and stability is critical to pitch perfection. Bryston includes the BTP-1 power supply which applies an AC-DC-AC conversion using a precision clocked pulse width modulation circuit to generate a spot-on clean AC pulse used to spin the motor with exceptional accuracy and rotational stability. Fine speed adjustments are possible by entering the strobe calibration mode.

## MOTOR

Only a high-torque low-speed motor such as ours can strictly control the rotation speed of the platter without inducing vibration. To mount the motor in the plinth, we must be certain that the motor itself is silent. It is exceptionally quiet due to a modified bearing, silicone damping fluid and clean power from the BTP-1. A single pulley that exactly matches the belt profile sits on top.



## PLATTER

Dense and heavy, yet acoustically inert are key characteristics of this 35mm thick Delrin® platter. No extra mat is necessary. A unique two piece spindle couples the platter to a hardened chrome steel bearing custom manufactured in Germany. The bearing and spindle rest in an oil lubricated well lined with graphite and Teflon. An included record weight rests on top.

## PLINTH

All of the aforementioned technology is built into a heavy 30mm thick machined MDF plinth luxuriously painted in matte black lacquer. This humble yet ideal component hides one bit of ingenious engineering. Two pairs of circular grooves surround the platter bearing to divert any resonances away from the platter that would otherwise travel through the plinth and expose themselves to the cartridge.

## LEVELING FEET

A properly leveled turntable is crucial to high performance yet is so often overlooked. Level your BLP-1 using 3 feet threaded into satin aluminum risers.

# PHONO Preamplifiers

**G**ood things come in small packages. A new 5.7 inch wide form factor originally developed for specialty digital components is a perfect fit for Bryston's new phono electronics.

Several challenges make developing a high resolution phono playback chain unique. In particular, the extremely low voltages from a cartridge are often less than 1 millivolt! Such small signals are susceptible to noise from other nearby electronics, distortions in the power line, and even other electronics in the same box.

Bryston has engineered our new phono playback system to mitigate these challenges. Each function can be fully contained in a separate chassis. An important side benefit is that rather than spending money for features you may not need or that may already exist in other equipment you already own, you may simply buy the components you need.

Every amplification circuit is built on a power supply. Bryston's new PS-3 Power Supply transforms your AC line voltage into an ultra-stable and linear DC voltage used by your gain stage.

Bryston's new BP2 Phono Preamplifiers are powered by a Bryston DC power supply such as the PS-3 or MPS-2 and provide the voltage gain your turntable needs to interface with the rest of your stereo equipment. Three BP2 models are available.

Step up transformers are the best way to provide the initial gain needed for low and medium output moving coil cartridges. Having no active components themselves, they are essentially noiseless. Bryston's TF2-20 and TF2-30 step up transformers provide either 20dB or 30dB of gain respectively so you can use a low to medium output moving coil cartridge with your choice of active gain stage.



# BP2 Phono Preamplifiers



**B**ryston's BP2 Phono Preamplifiers are full class-A gain stages plus extremely accurate RIAA equalization to play your records with superb accuracy. The BP2-MM Moving Magnet Phono Preamplifier utilizes Bryston's wide bandwidth and low distortion active gain stage for high output MC and MM cartridges. Four capacitance settings are provided for loading MM cartridges. The BP2-MC Moving Coil Phono Preamplifiers combine the active gain stage of the BP2-MM with an ultra low distortion step up transformer. The transformer can be switched in and out for maximum cartridge compatibility.

Attractive machined aluminum dress panel finished to match your Bryston equipment

Full steel chassis and top to shield delicate small signals from outside EMI/RFI noise

BP2-MC models include wide bandwidth, low phase shift, low distortion step up transformers for 20 or 30 dB additional gain for MC cartridges

Active gain stage is all discrete Class-A circuitry. RIAA equalization is extremely accurate. With inverse filter, frequency response is  $\pm 0.1\text{dB}$  in the audio band.

All audio connectors are high quality gold plated RCA terminals ensuring a tight and corrosion free connection to your turntable and stereo preamplifier.

Tailor MM cartridge loading with jumper selectable capacitance loading in 100pF steps.



## PS-3 DC Power Supply



**B**y moving the power supply to a separate box away from the audio electronics, Bryston eliminates the possibility that the high voltage and current present in this crucial stage contaminate the small signals from your phono cartridge. Bryston includes a customized DC power interconnect used to mate your BP2 to your PS-3.

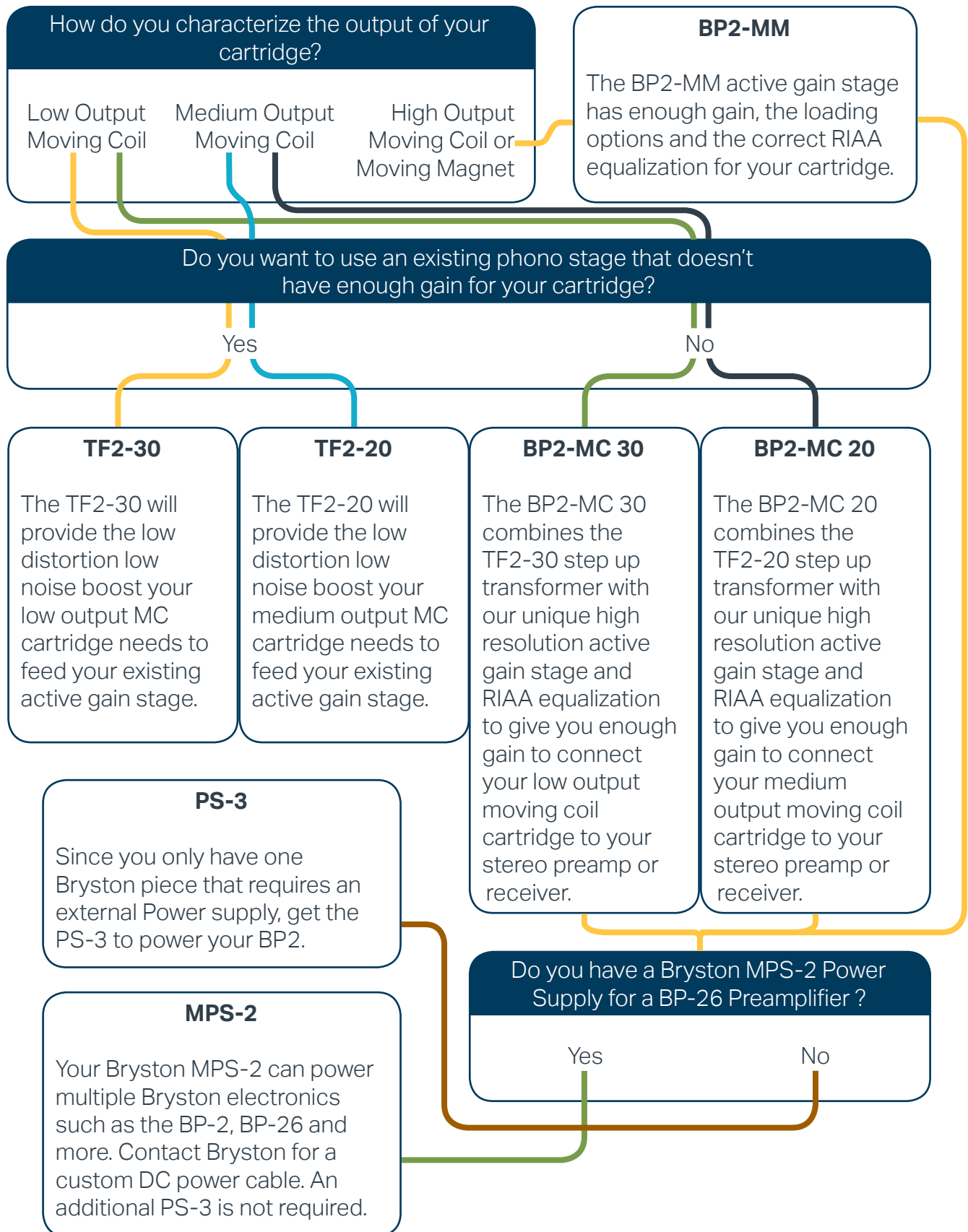
The PS-3 is also a less expensive but equally effective power supply for the BP-26 preamp for users who don't need the extra DC outputs the MPS-2 provides.

## TF2 Passive Step Up Transformers



**S**ome low and medium output moving coil cartridges just need a little boost. Multiple active gain stages introduce too much noise and distortion in the signal path. The solution is a passive step up transformer which magnifies the voltage from your cartridge before an active gain stage boosts it the rest of the way. The TF2 is available in 30dB and 20dB boost versions for low and medium output cartridges respectively. Use the TF2 with a BP2-MM or your choice of MM phono stage.

Still not sure what the best combination of products for your system is? Lets answer some questions about your system to see which Bryston phono products will serve you best.



## Turntable Specifications

	Rumble	Wow & Flutter	Speed Stability	Weight	Size (H x W x D)
<b>BLP-1</b>	-80dB	<0.02%	33 1/3, 45 RPM ±0.1%	12kg / 27lbs	16 x 42.5 x 35.9 cm 6.25 x 16.75 x 14.13 in.
Included Accessories					
BTP-1 PSU	Tonearm Cable (RCA)	Record Clamp	Basic Protractor	Hinged Dustcover	
	Voltage Input (region specific)	Speed Selection	Weight	Size (H x W x D)	
<b>BTP-1</b>	100-230V 50 or 60Hz	33 1/3 RPM & 45 RPM	2.1kg / 4.5lbs	6.5 x 14.5 x 210 cm 2.55 x 5.7 x 8.25 in.	

## Phono Electronics Specifications

	Gain	THD+N or IMD 20Hz-20kHz	Noise A Weighted ref. 5 mV in	Frequency Response	Weight	Size (H x W x D)
<b>BP2-MM</b>	41dB	≤0.005%	-80dB	20 Hz - 20kHz ± 0.1 dB (w/ Inverse RIAA)	1.75kg / 3.8lbs	6.5 x 14.5 x 210 cm 2.55 x 5.7 x 8.5 in.
<b>BP2-MC 20</b>	61dB	≤0.007% @1kHz ≤0.05% @ 20Hz	-80dB	20 Hz - 20kHz ± 0.1 dB (w/ Inverse RIAA)	1.75kg / 3.8lbs	6.5 x 14.5 x 210 cm 2.55 x 5.7 x 8.5 in.
<b>BP2-MC 30</b>	72dB	≤0.007% @1kHz ≤0.05% @ 20Hz	-80dB	20 Hz - 20kHz ± 0.1 dB (w/ Inverse RIAA)	1.75kg / 3.8lbs	6.5 x 14.5 x 210 cm 2.55 x 5.7 x 8.5 in.
	Gain	THD @ 1kHz	Common Mode Noise Rejection @ 60Hz	Frequency Response	Output Impedance	Size (H x W x D)
<b>TF2-20</b>	20dB	<0.001%	>120dB @ 60Hz	-0.5dB @ 20Hz -0.1dB @ 20kHz	4.71kΩ	6.5 x 14.5 x 210 cm 2.55 x 5.7 x 8.5 in.
<b>TF2-30</b>	30dB	<0.001%	>120dB @ 60Hz	-0.5dB @ 20Hz -0.1dB @ 20kHz	4.85kΩ	6.5 x 14.5 x 210 cm 2.55 x 5.7 x 8.5 in.
	Voltage Input (region specific)		Power Consumption	Compatible Products	Weight	Size (H x W x D)
<b>PS3</b>	100-230V 50 or 60Hz		13 Watts	BP-2, BP-26	2.5kg / 5.4lbs	6.5 x 14.5 x 210 cm 2.55 x 5.7 x 8.5 in.

### Warranty

Bryston warrants all analog electronic components for a period of 20 years from date of purchase. The BLP-1 is warranted for a period of 3 years. See [www.bryston.com](http://www.bryston.com) or individual product owner's manuals for details.