



Peter B. Noerbaek

To Hear Is To Believe...

There's something intensely personal about every speaker Peter Bichel Noerbaek creates. He signs his initials to each one ...because he has personally finessed each detail for over a quarter of a century. Where others have compromised with mass-production of their high-end offerings, Noerbaek has innovatively conceived, designed, built and tested every speaker and turntable and their matching components. In an era of rapid turnover and brief shelf life, many PBN models remain in active production for a decade or longer. Our three generations of Super League speakers date back to 1998 – with some first generation editions still in demand.

"Perfect is always what you strive for." It's Noerbaek's simple, direct philosophy, demanding a seemingly impossible standard of performance...

"The truth is always in the experience. To hear is to believe."



"The truth is always in the experience. To hear is to believe."



Clockwise from top: Peter B. Noerbaek; Master Reference III speakers; PBN-DP7 GrooveMaster Vintage Direct turntable; PBN-EB-SA1 amplifier.

NOTE: GrooveMaster turntables, Montana/Innerchoic speakers, and Olympia/EB-SA components are solely created and manufactured by PBN Audio. Full product warranties are valid only when they are purchased through authorized representatives.

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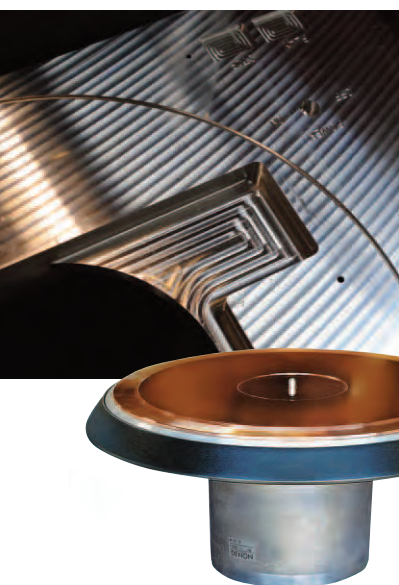
To Hear Is To Believe...

GROOVEMASTER *Vintage Direct* PROFESSIONAL

WHERE SUPERLATIVES ARE SIMPLY THE TRUTH

How do you describe a vinyl player so advanced, so immaculately engineered that the originals could never be purchased, only leased? When the total production run was limited to little more than 1,650 world-wide? Only a few of the globe's best radio stations were offered the exclusive contract to play this finely calibrated yet phenomenally durable turntable. Dubbed the DN308, it was created through the unique partnership of Denon Electronics and the Nippon Broadcasting Corporation (NHK) – and audio history was made.

PBN Audio has searched out and acquired several of these rare players, and has transformed them from their original commercial console mode into unique works of audio art: The **PBN-DN308**. Key components of the original electronics – most notably the unsurpassed motor – have been refurbished and reconfigured. Details, such as the speed selection switch and power toggle, have been retained. A special LCD display shows the precise rpm, to 1/1000 per revolution, in real time. The start/stop backlit buttons showcase its lightning-quick response. The original model number plate and authenticating documents are provided as well. All Denon parts used in our Vintage Direct Pro models come from the same unit. Each hardwood base is custom-finished to your tastes. This turntable is, we can say unabashedly, without peer.



PBN-DN308

Speeds 33.333 and 45.000rpm@0.002%
78.000rpm @0.5%
Bi-directional Servo Speed Control System
Up to 2 each 12" tonearms can be mounted
2.375" Ball Bearing Vibration Control Footers
Control Footers
Dim: 23.5" W x 18.5" D x 9.5" H
(to top of platter)
Weight Approx. 150 Lbs.



The **PBN-DP80** is a more compact companion to the PBN-DN308. It also boasts extraordinary prowess and refined electronics. Both DN models are recalibrated to the original specifications. Each has its own unique history. We invite you to call and add your name to our waiting list.

PBN-DP80

Speeds 33.333 and 45.000rpm @ 0.002%
Bi-directional Servo Speed Control System
2" Ball Bearing Vibration Control Footers



Up to two 10" tonearms can be mounted
Dim: 19.25" W x 15.25" D by 7.75" H (to top of platter)
Weight Approx. 55 Lbs.

CUSTOM TURNTABLES – There are eight models in the full GrooveMaster line, but any of them can be customized to the tastes and needs of the buyer. Aside from a wide range of hardwoods and finishes, the tonearms and needle cartridges can be selected to optimize the performance of your personalized collection, with many models allowing two or even three arms on one player. There are few vinyl recording performance questions PBN will not have the best answers for. Review the amplifier and preamplifier pages to learn how PBN can create the consummate audio system for your listening room. The highly unique player shown to the right features gold plating—the request of a true audiophile.



THE ORIGINAL SERIES GROOVEMASTER

THE TURNTABLE THAT HELPED CATALYZE THE RENAISSANCE IN VINYL



THE NEXT GENERATION GROOVEMASTER incorporates the dual-drive and Delrin vinyl platter of the original. The solid hardwood plinth (walnut in this example) is finished with a mirror-like liquid sheen. Each layer is rotated 120 degrees from the one below for maximum stability. The three steel risers provide perfect balance. Note the dark tonearm base – a critical and unique detail. Four precision-fitted bands connect the platter to the counter-balanced flywheel, turning the platter at a precise 33.333 rpm. These advanced features, and more, are carefully designed into a surprisingly compact player. The GrooveMaster is an award-winning work of art and a masterpiece of audio engineering.



The **PBN-DP3** is based on the Denon DP3000. Though this is the basic model of the series, it is brimming with custom refinements in both engineering and artistry. The DP3 features the amazingly accurate AC servo motor that operates at 99.9% accurate speed – plus Servo-controlled Direct Drive. The turntable comes complete with a Jelco SA750 (B) tone arm. The DP Series are nearly “plug-and-play” ready, with only minor hook-ups required. Though incorporating vintage parts, the GrooveMaster Vintage Direct players are rebuilt from the ground up and should perform brilliantly for decades to come.

GROOVEMASTER

Vintage Direct

Connoisseurs of vinyl recordings appreciate the rich history of the medium, and savor the uniquely warm, lustrous sound the classic turntables provide. The craft that went into creating these players helped define the golden age of vinyl.

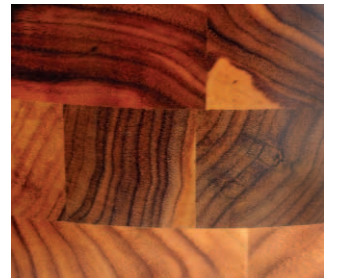
PBN Audio, innovator of the original GrooveMaster, has drawn on their deep knowledge of that engineering tradition and transformed the classic Denon DP Series with advanced modern electronics. The magic of the DP line was in its amazingly accurate RPM – revolutions per minute. The turntable, though, was mounted on a metal base that carried a discernable ringing tone. PBN has diligently recovered and painstakingly restored the Direct Drive platforms and motors from these highly desired players and used them as the foundation for the **GrooveMaster Vintage Direct Series**, adding hand-finished hardwood plinths, steel spiked feet to eliminate vibration, advanced electrolytic capacitors and other electronics. *All GrooveMaster Vintage Direct models are created using only the most reliable, proven elements – and should provide decades of trouble-free service.* They can be customized with different types of tone arms, even adding, at request, a second arm for both stereo and mono setup. This is a unique hybrid of past and present technologies, blended together for the pure love of music...and performing at a whole new level of sonic brilliance.

The **PBN-DP2** is based on the Denon DP2000. This is the second model of the series, and is a masterpiece of design ... inside and out. A key advantage over the DP3: greater speed stability, and precision electronic braking when stopping play or during speed changeovers. The DP2 features the amazingly accurate AC servo motor that operates at **99.998% accurate speed** – plus Servo-controlled Direct Drive. The turntable comes complete with a Jelco SA750 (B) tone arm.

Every turntable is made to order – The solid hardwood plinth bases are made to your choice of wood, stain and finish. Tone arms can be upgraded to more sophisticated models (*shown to right is the stellar Graham Phantom B44*).



This is the most advanced DP model using the basic Denon motor. Based on the Denon DP600, the **PBN-DP6** comes with a larger and heftier platter, giving it outstanding stability and performance. The 10-inch Jelco SA750E (B) tone arm completes the package. The drop-down cap hold LPs in tight alignment with the turntable to eliminate any wobbling. The DP6 is a marvel of blended technologies – and a delight to both the eye and ear of all who experience it.



Form-aged Hardwood Plinths – The three precision-cut layers are glued together so the grain of each is angled at 120 degrees, providing resonance-free stability and unique grain patterns.



Magnetic Sensor, which reads the pulse patterns imbedded in the platter. It compares the imbedded signal with a precisely generated internal pattern and if any deviation is detected, it automatically corrects the platter speed. *PBN-DP8 shown.*

The “**Master Class**” models, the **PBN-DP7** (*below*) and the **PBN-DP8** (*right*) are the flagships of PBN’s Vintage Direct line. Based on the Denon DP80, the PBN-DP8 boasts a motor that is larger, more powerful and more advanced than is used in the others in the series. With over-all heftier specs and a larger, dual-layer platter, it gives outstanding stability and flawless performance. The sound you hear is pure, effortless and expressive of every nuance and aural gesture. The quite rare Denon DP7000 is a true collector’s item, and we’re proud to include the **PBN-DP7** to complete the series. If you’re looking for the best, you’ve found it.



AC Servo Motors
The phenomenally accurate heart of the PBN-DP line. The larger motor (left) is the 5” diameter motor exclusive to the DP80. All DP Series motors are controlled by a highly stabilized timing clock which prevents fluctuation in load or supply voltage.



Copper Platters – dramatically enhance the aesthetics of both sight and sound, They’re standard with the DP7 and an enticing option for the DP3, DP2 and DP6.

THE M! SERIES IS A TRIUMPH OF TECHNOLOGY... PLUS A LITTLE MAGIC



Following the introduction of the hugely successful M2!5, PBN has developed a complete series of speakers incorporating the same innovative design and standards of excellence. The full 30-year-plus experience of Peter Noerbaek and PBN Audio is showcased in its breathtakingly real performance and deep aural conviction. It has been justifiably described as possessing the essence of "thereness" ... that seemingly magical capacity to create a visceral sense of presence that, even for some professional reviewers, sends a chill down the back.

This is now a family of four speakers, ranging in size from the seven-foot Master Reference hybrid MR!777AT with two superlative 18" woofers to the scaled-down M1!5 with twin 12" woofers. The original M2!5 sensation, with dual classic 15" woofers wedded perfectly with a mid-range/tweeter compression horn driver and the weighty M3!5 with a 15" woofer, midrange, and unique ribbon tweeter complete the line.

If you are ever afforded an opportunity to audition one of the M! Series audio systems, do not pass it up.



PBN Astounds Critics with a Speaker Series that Captures the Essence of "Thereness"

M1!5

The M1!5 Featuring twin 12-inch woofers. The compression driver features the same phase plug as that used in the most refined drivers and is integrated masterfully in the M2!5, with its virtually peerless high-frequency soundscape. *14"W x 19"D x 42.5"H*



M2!5

The twin 10" aluminum cone woofers are precisely aligned above an identical set...giving the Hadley a robust, crunchy bass that redefinerefaker a full-throated sound that pulls you right into the vortex. *18"W x 23"D x 53"H*



M3!5

The dynamic 18-inch woofer (2245H) is the foundation of this unique design, and is beautifully complemented by a 2206H midrange driver and SA8535 ribbon tweeter. At 345 lbs per speaker, it has the power to own any room dedicated to a full audio experience. *21"W x 27"D x 54"H*



MR!777AT

Merging two PBN designs in one amazing hybrid, it combines the scale and formidable prowess of the Master Reference with the M! Series uncanny balancing of peerless drivers. *26"W x 27.5"D x 81"H*



THE M! SERIES

SONIC SUBSTANCE: THE DEFINING OF A NEW ERA



“**T**here’s something greater at work here: **SONIC SUBSTANCE**.” The praise lauded on our Innerchoic Loudspeakers by *Sound Stage’s* critic Jeff Fritz is just the start. Reviewer after amazed reviewer cannot believe the audio presence and clarity of these “next generation” speakers “...**the purest, most defined and extended sound that is currently available.**” Ultimately it’s all about pristine, pure audio, the holy grail of every speaker engineer. This is what your critical ears desire. This is what the **Innerchoic® Series** delivers.

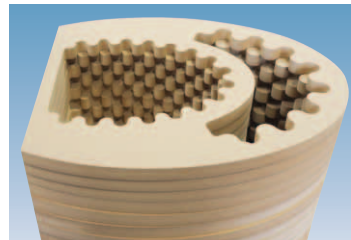
Each Innerchoic Series cabinet is built with a precision-cut series of layered, ultra-dense MDF Ranger Board™ sections. The proprietary round-ribbed interior pattern functions literally as an internal anechoic chamber. That’s why we’ve named the concept “innerchoic”. It absorbs any distorting, reflective sound waves while channeling a music experience clarion-clear and subtly detailed, yet amazingly substantive. It is a sound unheard...and unheard of...until now.

The Innerchoic adventure began with the **Sammy** and **Liberty**, and the breakthrough design led to rest of this versatile series, each based on the same unique internal architecture: the compact but robust **Hadley**, with twin overlapped pairs of woofers (called isobaric loading) and the unique **Hadley Center Channel**. *The goal was to sound like life, not simply another speaker. Listen for yourself; the tantalizing phrase *sonic substance* will need no further explanation.*



The Hadley Center Channel Speaker
41"W x 21"D x 21"D (Stand included)

All models of PBN's exclusive Innerchoic Series feature this unique layered pattern of precisely interlocking ribs. Peering down the interior during construction is like watching the emerging layers of CT scan imagery...each layer is individually designed to become part of the brilliantly conceived whole. When assembled, glued and sanded, they form an internal sound chamber without precedent or peer.



NOTE: The Super Sammy is no longer offered. The recommended best match is the WAS III.

INNERCHOIC DESIGN BREAKS THE SOUND PURITY BARRIER

SAMMY

The former boundaries of sound purity and palpable realism were redrawn with the innovative engineering of the Sammy. Standing 4.5 feet tall, it is head and shoulders above all the competitors.

17"W x 21"D x 54"H



HADLEY

The twin 10" aluminum cone woofers are precisely aligned above an identical set...giving the Hadley a robust, crunchy bass that redefines “rolling like thunder.” The 6" Papyrus reed cone mid-range and top-performing Dynaudio tweeter help give this speaker a full-throated sound that pulls you right into the vortex. *The Hadley Center Channel features the same drivers and electronics.*

16.25"W x 20.5"D x 44.5"H



LIBERTY

A mid-sized *wunderkind* with a truly big sound...superbly defined, fully dimensional, and with a tonal range that extends across the complete spectrum. Features two 8" anodized aluminum cone woofers, one 6" reed-fiber mid-range driver and a 1" gold-plated titanium tweeter.

14"W x 17"D x 43"H



INNERCHOIC SERIES

THE SUPER LEAGUE PUSHES THE ENVELOPE FURTHER WITH INNERCHOIC® DESIGN

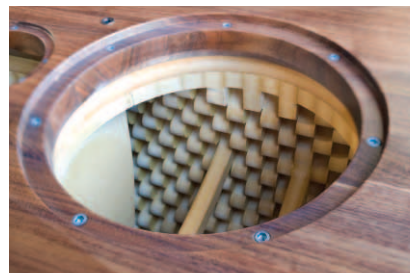


The amazing success of PBN's Innerchoic® series has led, quite naturally, to this third generation of our celebrated **Super League** series – and the most advanced of the Montana line. The power, poise and exhilarating sense of perfection achieved by this trio of über-speakers has been elevated to even higher levels of performance – with an inside-out transformation to our Innerchoic “sound chamber” design.

The original challenge, both met and surpassed by the Super League system, was to deliver impeccably refined audio within the unforgiving realities of spacious venues. The goal was to produce a full and effortlessly powerful dynamic range...while also being capable of capturing each deliciously nuanced detail. They should “go big” without losing the dexterity of “going small” – an accomplishment few others attempted, let alone achieved. Size always needs to justify itself. Every cubic inch had to be there for a reason. Elegant form must always be in natural synchrony with flawless function.

And now, with the full integration of PBN's patented Innerchoic cabinet architecture, the majestic sweep of the sculpted, balanced sound unique to the classic Super League is rendered with even greater purity.

The reconfigured seven-foot **Master Reference III** (with 18” subwoofers) remains, even more assertively, the flagship of our line. Likewise the **WAS III** (15” subwoofers) and the **KAS III** (12” subwoofers), take the prowess of their predecessors to new levels, creating a seamless progression with the original Innerchoic Series. Each speaker in this line boasts the same mid-woofers, mid-range and tweeter array. The KAS III features a 1200W built-in amp; the WAS III and Master Reference III double that with *twin* 1200W internal amps.



KAS III

With its own 1x1200-watt DSP-based built-in amp driving a twin set of 12” subwoofers, this towering two-channel speaker is designed for the serious audiophile. Each Super League speaker features two 9.5” mid-woofers, two 5” mid-range drivers and a 1” beryllium tweeter. 19”W x 22”D x 70”H



WAS III

Designed for two-channel listening in spacious rooms, each WAS III speaker has two 15” long-throw professional grade subwoofers along with its internal 2x1200-watt DSP-based amps – housed in a stunning custom-made cabinet. 23”W x 25”D x 75”H

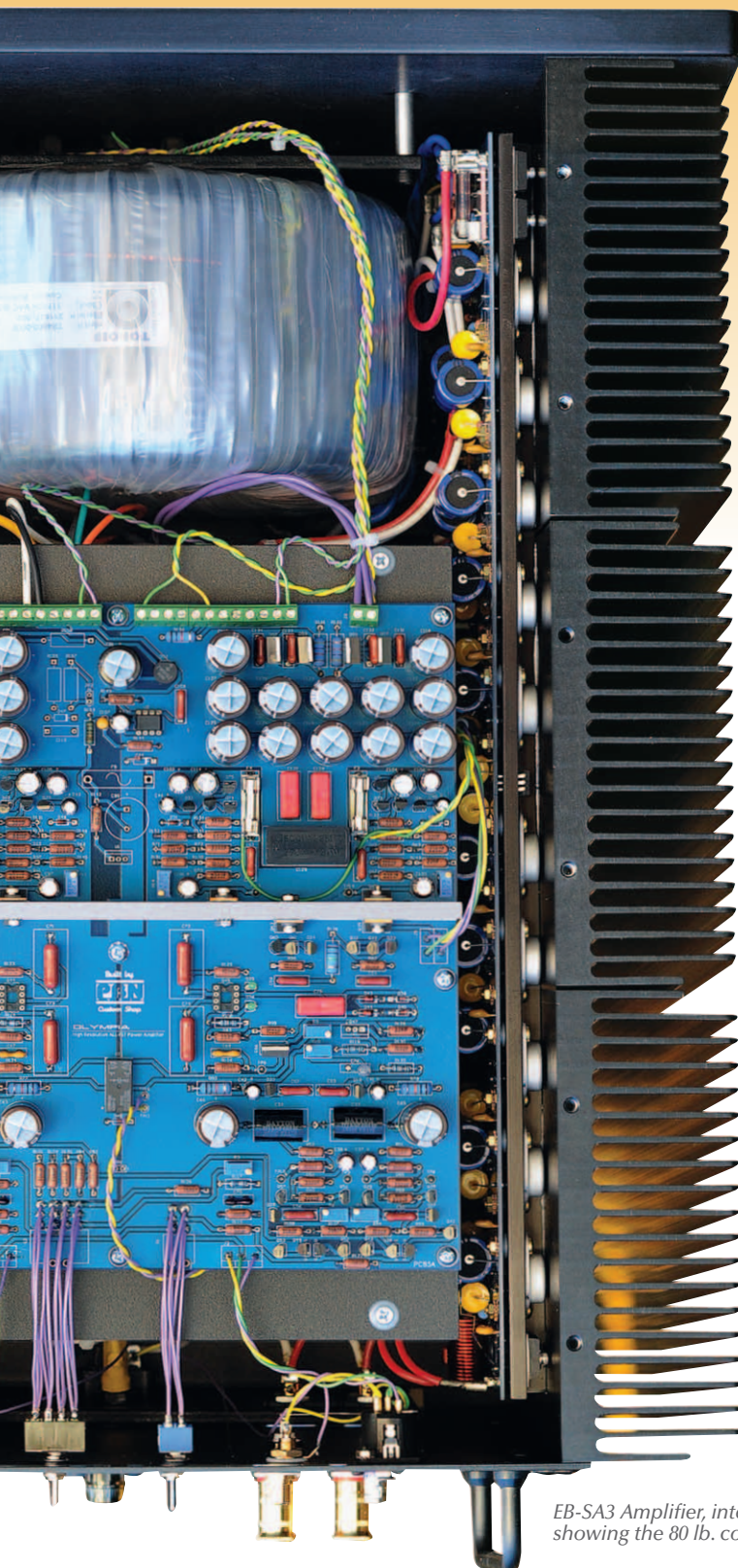


MASTER REFERENCE III

THE ULTIMATE PROFESSIONAL-GRADE SPEAKER. Nearly seven feet of breathtaking audio that accurately reproduces every nuance in the sound spectrum. It comes supplied with 2x1200-watt DSP-based built-in amps and 18” subwoofers. 26”W x 29”D x 80”H



THE SUPER LEAGUE



EB-SA3 Amplifier, internal engineering, showing the 80 lb. copper coil transformer.

THE EB-SA MEGA-AMPS: TRUTH TO POWER

When Peter Noerbaek concluded the only way to insure meeting the highest standard for his audio systems was to engineer and build his own amplifiers and pre-amplifiers, he envisioned carefully integrated audio components that would work together seamlessly to create a synergy of excellence. The core, inflexible tenet followed for each element – every diode, every capacitor – was to insist on the best, without exception.

The result: The now complete **EB-SA** series, a trio of PBN components that redefine the term “amplifier”. (The “EB” is an homage to Erno Borbely, the legendary Norwegian-Hungarian electronics engineer who collaborated closely with Noerbaek on the earlier forms of the series.) The precisely balanced electronic network of each EB-SA amp provides the right pulse of energy at each point of need. The entire system hovers with nearly unlimited power to breathe life into every sound, no matter how delicate or subdued – or to unleash the full potential of any crescendo. EB-SA soundscapes are unbelievably immaculate; there is no “noise”...only deep, pure, gorgeous sound.

Beginning with the **EB-SA1** with over 130W of power per channel, to the **EB-SA2** with *four times* that, and finally to **EB-SA3**, with a *full Farad* of combined capacitance, the same uncompromising standard prevails. The canvas of great audio art is silence: Pure, delicious silence – and PBN has mastered it.

And remember, if an amplifier can make the grade with PBN speakers, they can decisively help any other speaker hit their dynamic optimum.

EB-SA1 AMPLIFIER

With over 130 clean watts and outputs that support six pairs of devices per channel, this is a genuinely powerful amp, performing robustly with any of the Personico or Innerchoic series. 19"W x 9.25"H x 15"D.



BACK

EB-SA2 AMPLIFIER

The EB-SA2 is a mind-blowing mega-amplifier, achieving *four times* the sonic power and control of the breakthrough EB-SA1. It features a dual-differential input stage and MOS-FET pre-driver/driver/ lateral output stages. The EB-SA2 carries a massive 4KVA power transformer with quad secondary windings for the output and a *second* quad set of windings for the front end. With PBN's proprietary Comb Ground™, it generates an astonishingly noise-free sound environment. 19" W x 15.5" H x 16.25"D.



BACK



EB-SA3 AMPLIFIER

This 185-lb. heavyweight establishes a new class in amplifying technology and an exciting benchmark in audiophile excellence. With *one full Farad* combined capacitance, the distributive node power supply gives 200W per stereo channel with 800W per mono block. Features 40 closely matched MOS FETs with 10 pairs on each side, eliminating the need for source resistors that slow down and muddy the performance. With fully independent positive/negative regulators for each channel and a 4 KVA transformer, plus separate windings for each output stage. 19"W x 13"H x 23"D.



BACK

EB-SA AMPLIFIERS

OLYMPIA PREAMPLIFIERS: THE PERFECT SYSTEM STARTS HERE

OLYMPIA Li & LXi PRE-AMPLIFIERS

These new pre-amps are built to drive the most demanding cable/amplifier loads, delivering pristine audio. Both have three balanced inputs and two RCA inputs. The LXi offers more extensive use of Caddock Resistors, two transformers and eight filtering chokes, and uses the CPSi power supply. 19"W x 4.5"H x 15"D.



BACK

OLYMPIA Pi & PXi PHONO PRE-AMPLIFIERS

Part of any serious turntable system, including PBN's own GrooveMaster series, the Olympia Pi and PXi convert the naturally low-output phonograph signal into a fully-developed soundstage that picks up every nuance, sculpts every passage, and delivers the absolute best dynamic range. The PXi offers more extensive use of Caddock Resistors, two transformers and eight filtering chokes. 19"W x 4.5"H x 15"D.



BACK



OLYMPIA DX DIGITAL/ANALOG CONVERTER

The Olympia DX builds on two technologies that are the pinnacle of audio engineering: A fully differential Digital to Analog Converter with four BB 1704 K Grade R2R-DACs, feeding our proprietary ALL-FET I/V Converter, second order analog 100Khz Bessel filter and common mode rejection output buffer (in that order). Provides five digital inputs, with three usable at any time. 19"W x 4.5"H x 15"D.



BACK

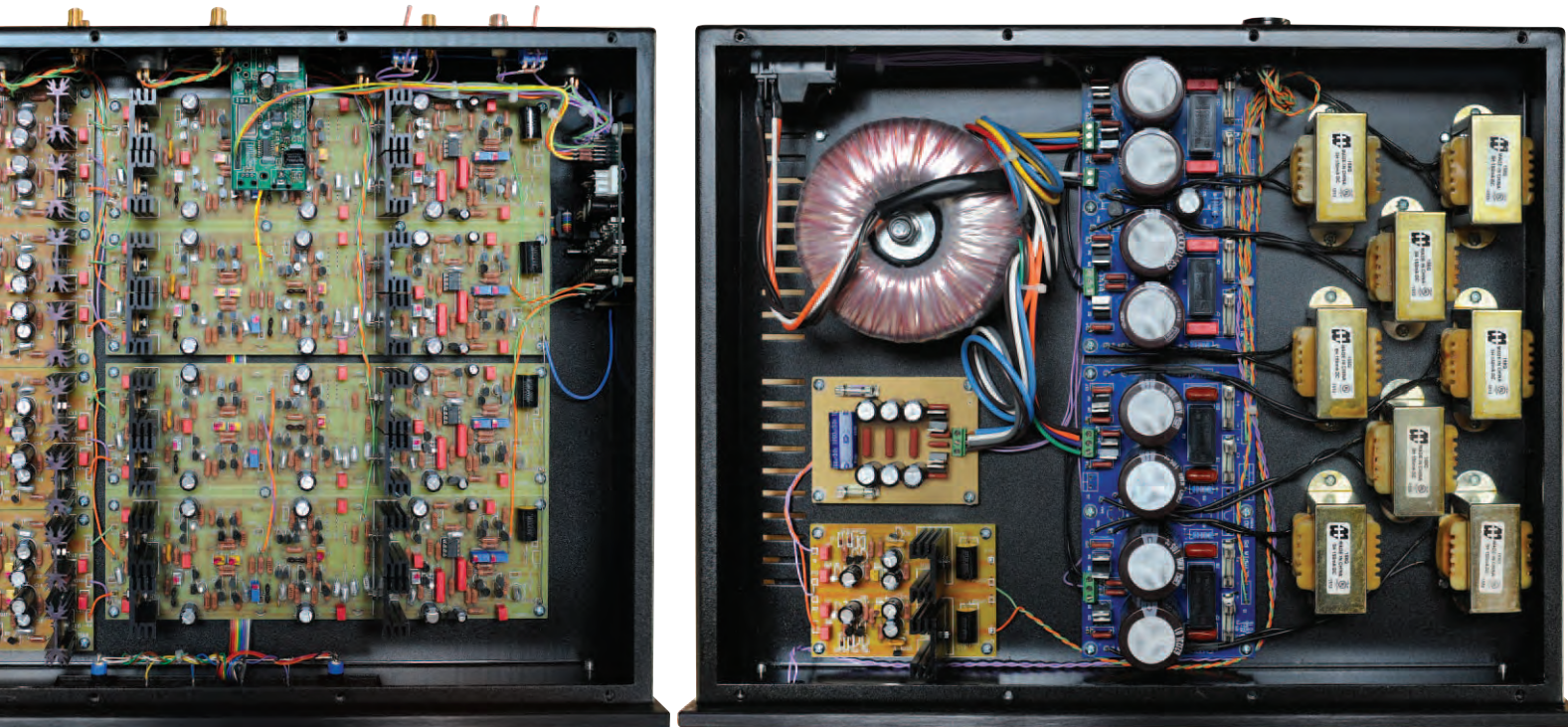
PRE-AMP POWER SUPPLIES

All Olympia pre-amps come with external power supplies that are "over-built" with heavy capacity coils and transformers that will outperform the highest expectations. Each is custom-designed for an ideal match with its corresponding pre-amp.

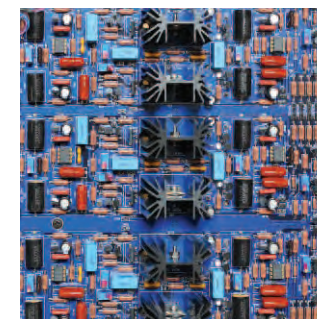
PRE-AMP	POWER SUPPLY	DIMENSIONS
LXi	CPSi	CPS: 19"W x 4.5"H x 15"D
Li	MPSi	MPS: 9.5"W x 4.5"H x 15"D
DX	CPS-D	
PXi	CPS-P	
Pi	MPSi	



CPS (above) and MPS (left)



INTERNAL VIEW OF OLYMPIA DX and CPS-D POWER SUPPLY



Far from an afterthought or a redundancy, a high-capacity preamplifier captures the initial signal – which in the case of an older phonograph recording can be quite thin – and gives it volume and clarity while eliminating electronic noise. It is the critical start of the transformation from inert "information," either digital or analog, to a fully dimensional soundscape that gives "truth in the hearing." PBN preamplifiers are hand-built, with every resistor, choke or transformer precisely wired and soldered, tested and re-tested, and finally signed and shipped.

OLYMPIA PREAMPS