



Over three decades
in the relentless
pursuit of perfection



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 three decades. 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."



Clockwise from top: Peter B. Noerbaek; Studio Reference 14 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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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 of the Denon parts used in each Vintage Direct Pro come from the same original 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.

Introducing Two New Vintage Direct Models Based on Pioneer Classics

PBN-P3 Professional

PBN Audio is proud to introduce a new line in the GrooveMaster Vintage Direct series, the P3 Professional and P10. The P3 eclipsed its rivals in the rigorous testing undertaken by the Stereo Sound experts in 1980. It ultimately proved to be the most successful high-end turntable in Japan's stiffly competitive electronics field.

With the precisely engineered EM-03 motor, Direct Drive Stable Hanging Rotor (SHR) system, and triple insulation, this marvel of classic turntable design has earned its place among the best turntables ever produced for the discriminating vinyl market.



PBN-P10 Professional

These meticulously refurbished and redesigned players feature Pioneer's Direct Drive SHR system and EM-03 motor, providing the highest possible level of RPM precision at 33.000 and 45.000.

With a signal-to-noise ratio of 95dB, the original P10 rivals the best turntables in its class. A dedicated counterweight keeps the centrifugal pull of the platter's rotation perfectly compensated in the motor's timing.





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.

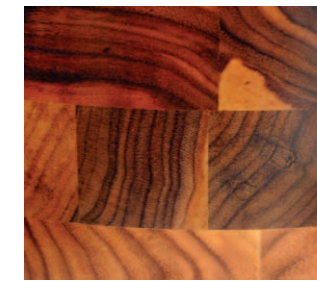
PBN Audio, innovator of the original GrooveMaster, has drawn on their deep knowledge of that engineering tradition and transformed the classic Denon DP Series with advanced modern electronics. The magic of the DP line was in its amazingly accurate RPM – revolutions per minute. The turntable, though, 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 six speakers, beginning in size with the 44” tall M0!5 with twin 8” woofers, designed for small venues or as surround speakers. Or, step up to the M1!5, boasting 12” woofers. Next in line: the original M2!5 sensation with dual classic 15” woofers or its companion M2!5s, both wedded perfectly with mid-range tweeter compression horn drivers. Consider the more robust M3!5 with 18” woofers, midrange drivers, and a unique ribbon tweeter. The flagship of the line is the seven-foot Master Reference hybrid MR!777 with two superlative 18” woofers—perhaps our most dominating speaker. The latest addition: The boldly conceived and stunningly designed MR!X, with an amazing 98dB. With the now complete M! Series, “to hear is to believe” has perhaps never been as revelatory.



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

M0!5

The M0!5 comes with twin advanced 8-inch woofers that provide outstanding drive force symmetry and stability. The ribbon tweeter, with a Neodymium magnet and 3-inch reinforced sandwich diaphragm, completes the balanced, fully dimensional sound. 11”W x 16”D x 44”H



M1!5

The M1!5 featuring twin 12-inch woofers. The compression driver features the same phase plug as that used in the 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 15-inch woofers feature low-loss magnetic structure and Symmetrical Field Geometry. The mid-range/tweeter compression driver, mounted on WaveGuide horns, aligns with the woofers “in time” via amazing 900 Hz crossovers. The clear result: “thereness.” 18”W x 23”D x 53”H



MR!X

The MR!X couples the incredibly precise yet powerful 2360 Bi-Radial Horn with a highly-rated compression driver, complemented by a superb 18” woofer that provides weight and foundation to the horn’s highly precise, clear articulation. *The sensitivity is an astonishingly high 98dB, @ one Watt @ one meter!* 31”W x 35”D x 60”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!777

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

THE STUDIO REFERENCE SERIES... VIVIDLY DETAILED SOUND, WITH A GORGEOUSLY RETRO LOOK



The hunger music aficionados have for pure, expansive, deeply nuanced sound is a desire difficult to satisfy. Peter Bichel Noerbaek has invested a lifetime pursuing that goal, with amazing success. But for Peter, the envelope can always be pushed. Continually searching for the perfect marriage of technology and craftsmanship, he has mastered the art of blending the legendary engineering accomplishments of past generations with the newest advancements in audio design. It is a creative process, attempted only by those individuals with both the passion and the deep knowledge necessary to succeed.

The Studio Reference Series is the latest advancement in PBN's long and rightly celebrated catalog of speakers, turntables, amplifiers, and pre-amplifiers. Two models make up this distinctive lineup. The Studio Reference 14 (with 14 inch bass drivers) and the Studio Reference 10 (with 10 inch woofers), share a common origin: pairing highest-rated tweeters and midrange drivers with meticulously rebuilt vintage woofers. The bright white AQP-coated cones, custom-fit to the existing frames, give a classy look that provides a dash of retro stylishness. With outstanding linear phase response and hyper-real sensitivity, these speakers embody the PBN brand: Painstakingly researched and tested, creatively integrated, and stunningly housed in a custom-built chassis.

The Studio Reference Series lives up to every expectation—with vivid, lifelike, nimble, delicious sound.



AQP-COATED WOOFERS

The woofers are the heart and soul of the Studio Reference line. The vintage woofers, designed in California in the 1970s, are known for their uncanny ability to seemingly capture the very soul of music. The originals are carefully disassembled and the baskets are sandblasted and powder-coated. Magnet systems are cleaned. New cones, manufactured in Japan, are then perfectly fitted, along with new voice coils, spiders and surrounds, to make a superlative low frequency driver.



STUDIO REFERENCE 10

Each SR10 speaker has two 10" long-throw professional grade subwoofers. A 2.5" textile done midrange driver features dynamic stabilization and a superb 95dB sensitivity, and the 4-ring dome tweeter delivers low resonance frequency with heightened sensitivity. 12"W x 17"D x 42"H



STUDIO REFERENCE 14

Alongside the customized 14" woofers, the SR14 features a 3" midrange carrying a deeply enhanced sensitivity level. The Beryllium dome tweeter balances them with a rare clarity achieved with its low-resonant, extended frequency range. 17"W x 18"D x 47"H



STUDIO REFERENCE

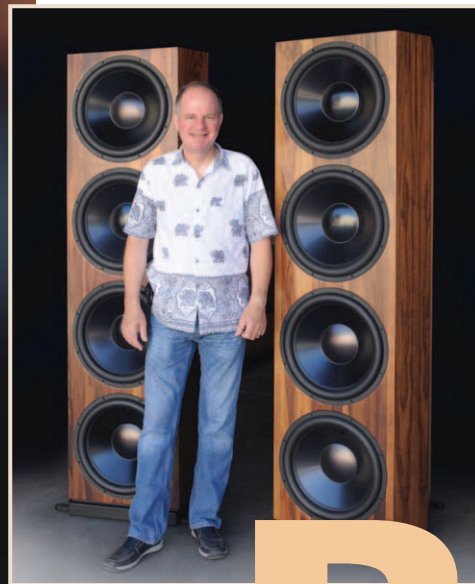
BASS TOWER SPEAKERS: QUEUE THE THUNDER, IT'S TIME TO RUMBLE

PBN Audio from its inception has striven to create speakers and complete sound systems that recreate the full aural experience of live music. Each generation, every technological breakthrough, is devoted to that end.

The scale and acoustics of some venues, and the desire of some to go with an extra big, deeply resonant sound, lead to this common request: We love the quality, we savor the lifelike realism – but we want extra bass! And here it is, nearly seven feet of powerful bass that swallows you whole, generated from four 18-inch drivers.

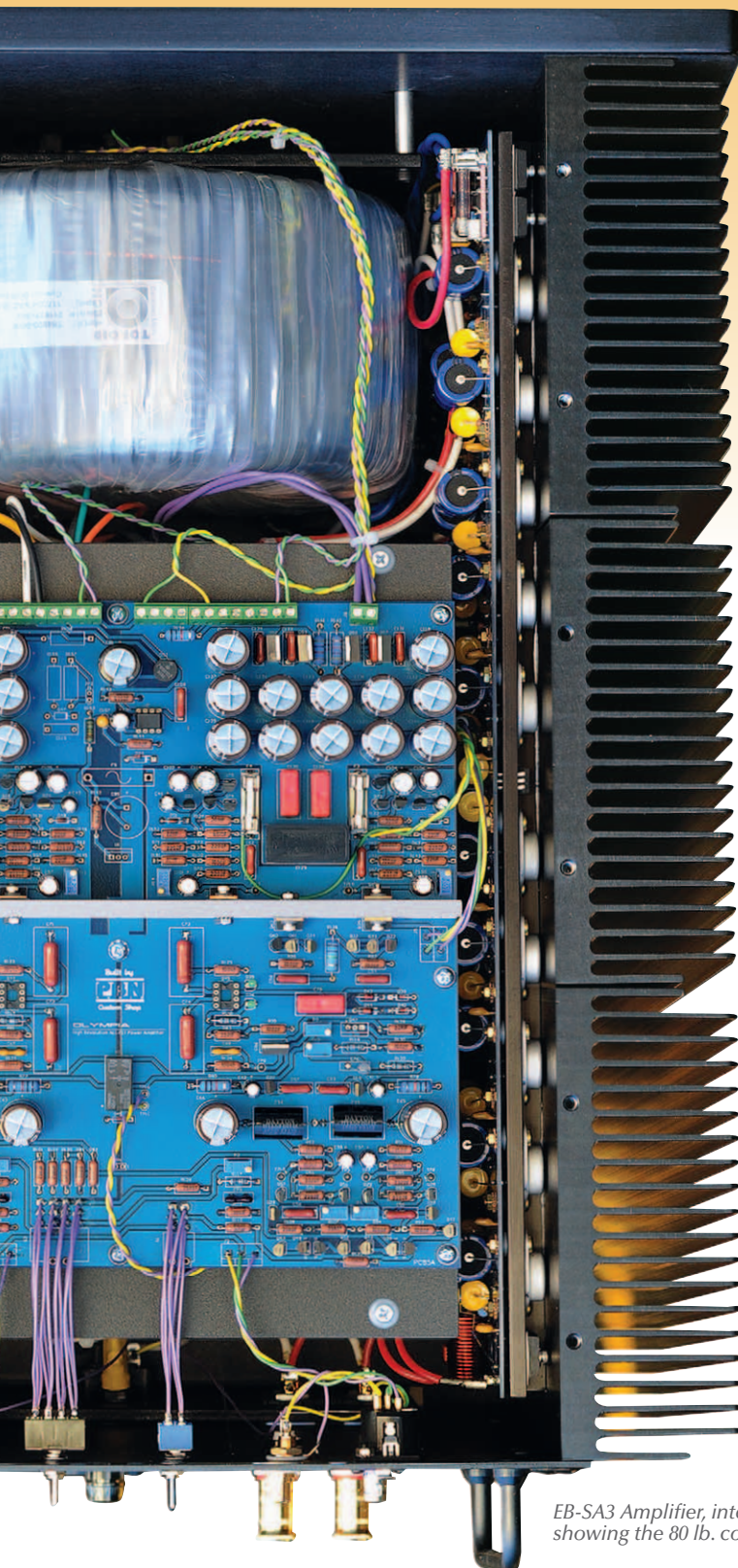
We custom build Bass Towers specifically to complement and support our MR!777 speakers, increasing the total bass driver count from four to twelve for a fully matched audio system.

Call us today to inquire about this thunderous addition to the PBN line-up of world-class speakers.



M! Series MR!777 (inner pair) with custom-matched Bass Towers featuring four 18" woofers each and custom maple burl veneer.

BASS TOWERS



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

THE EB-SA MEGA-AMPS: TRUTH WITH 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-OCE OPTICAL CARTRIDGE EQUALIZER PHONO PRE-AMPLIFIER

The newest addition to the phono pre-amp family is the Olympia OCE, incorporating breakthrough infrared laser technology that reads the analog signal embedded in the recording's grooves. The result: pure, vivid, analog sound, with an amazing output of **just 26dB gain**. PBN is the first U.S. company to develop a pre-amp that seamlessly adapts this technology to your full audio system, with the same relentless drive for excellence you've come to expect from PBN. *19"W x 4.5"H x 15"D.*



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.*



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.*



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.*



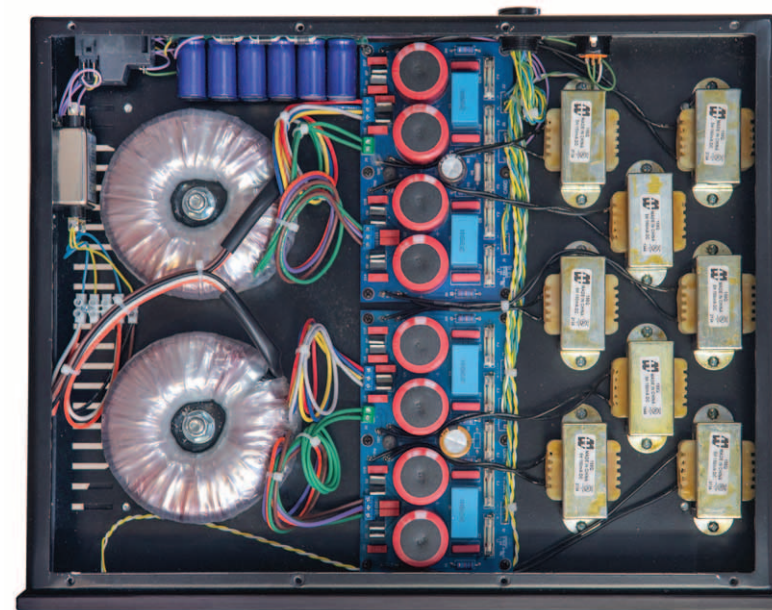
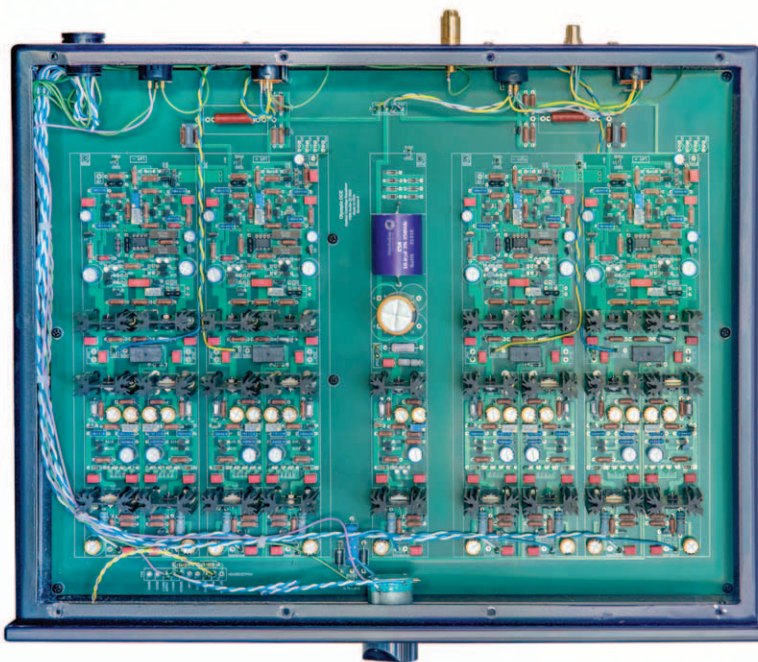
PRE-AMP POWER SUPPLIES

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.

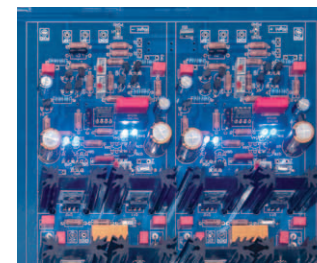
PRE-AMP	POWER SUPPLY	DIMENSIONS
OCE.....	CPS-P	CPS: 19"W x 4.5"H x 15"D
LXi	CPSi	MPS: 9.5"W x 4.5"H x 15"D
Li	MPSi	
DX	CPS-D	
PXi	CPS-P	
Pi	MPSi	



CPS (above) and MPS (left)



INTERNAL VIEW OF OLYMPIA OCE (left) and CPS 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