



PSB Synchrony Two Tower

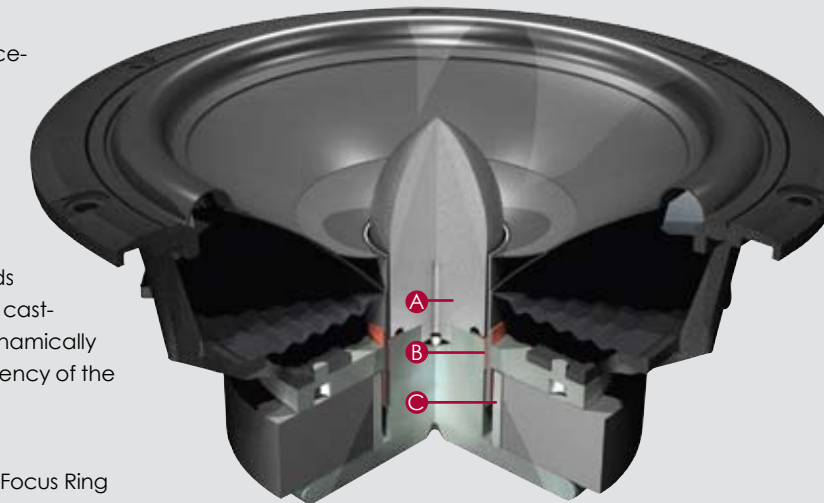


Left to right: PSB Synchrony One Tower, Two Tower, One B Bookshelf, Two B Bookshelf (on stand), Two C Center Channel, One C Center Channel and Synchrony S Surround.

PSB Synchrony Technology

Woofers

The Synchrony woofers and midranges bristle with advancements. Laminated cones sandwich fine-weave fiberglass and compressed-felted fibers into a uniquely rigid, self-damping, low-mass diaphragm for higher sensitivity and smoothness. Oversized voice coils, and distortion-arresting motor structures* preserve magnetic linearity at even extreme excursions, for clarity, detail, and "drive." Carefully engineered ventilated spiders, and rubber surrounds contribute both error-free dynamics and longevity. The cast-aluminum Synchrony baskets are superbly rigid, aerodynamically "open," and magnetically inert, resulting in maximum efficiency of the motor/magnet structure.



* A Aluminum Bullet, B Copper Shorted Turn, C Aluminum Focus Ring

PSB Synchrony

PSB is known internationally as the leader when it comes to loudspeakers of world-standard performance and value. PSB's credentials—35 years of experience in loudspeaker design, led by musician-engineer Paul Barton, exploiting the unmatched acoustical facilities of the Canadian National Research Council in both pure research and product development—are well established. So are its products, among knowledgeable music lovers and home theater buffs, as the benchmarks of value and performance.

Synchrony carries these traditional PSB virtues to new heights, with seven models developed together and tonally matched to unprecedented precision. In doing so Synchrony yields sonic performance that pushes the boundaries of the possible, whether judged by way of close technical analysis or by rigorous subjective evaluation.

Yet Synchrony delivers something more: a measure of visual elegance and luxurious finish unprecedented in such thoroughly engineered, advanced-performance loudspeakers. As a result, the seven elegant, small-footprint Synchrony models integrate quietly into today's most sophisticated listening rooms and home theaters.

Synchrony's designs feature a consistent gracefulness of form that pleases the eye, and natural, superbly finished surfaces that reward the touch.

The Synchrony family arose from a tireless, highly focused three-year development process. While it is human nature to fall prey to the allure of "revolutionary" new loudspeaker designs, the PSB way of achieving 'breakthrough' performance is less seductive: refinement and still more refinement. The sum of hundreds of details, some smaller, some larger, but every one important, the Synchrony family's collective achievement is a combination of reference-grade individual performance and perfectly matched tonalities that makes them equally adept in stereo music systems and in a wide variety of multi-channel arrays.

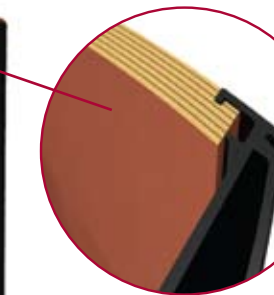
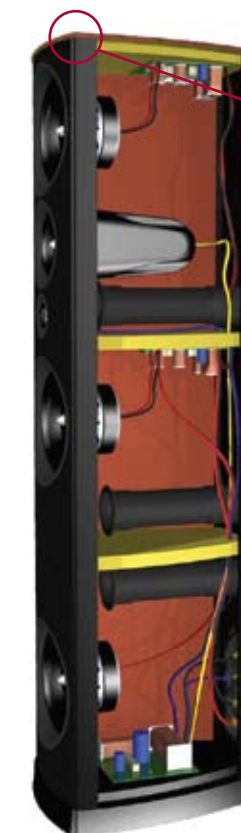
Synchrony's union of rare musicality with benchmark performance is complemented by uncommonly space-efficient design, sophisticated, understated appearance and a quietly luxurious finish. Together, these make the PSB Synchrony loudspeakers uniquely able to unite the ideals of the most critical music listener, the most challenging home-theater buff, and the most demanding designer.



PSB Synchrony Two B Bookshelf

Cabinet Construction

PSB's unique construction details help make the Synchrony family one of the strongest, most inert, resonance-free enclosures in the industry. Extruded-aluminum front and back panels unite subtly curving, seven-layered, hand-veneered sides into an unbelievably robust structure. Their unbroken, diffraction-free surfaces and near-total resistance to coloration-carrying vibrations yield arresting sonic purity—and smooth, beautiful surfaces utterly devoid of visually intrusive hardware. The Synchrony towers use immensely complex computer optimized box tuning and crossover networks. Subdivided into three discrete chambers—one for each woofer—they uniquely harness the "floor-bounce" that plagues other floorstanding speakers to extend and smooth response instead of roughening and curtailing it.



Double-locking aluminum corners bind each Synchrony enclosure with incredible solidity and "float" its elegant perforated aluminum grille—a uniquely open pattern that's genuinely acoustically transparent. The double-layer aluminum front baffle sandwiches an elastometric layer that damps unwanted vibrations, fixing the drivers in an utterly rigid, inert working surface.

Terminal Cup

Even Synchrony's solid-metal speaker connectors have been specially designed: gold-plated for maximum conductivity; accepting banana plugs, pins, spade-lugs, or wire up to 10 gauge; equipped with unique, ergonomically designed easily grasped tightening "wings"; and of course configured with discrete woofer/tweeter terminals for easy bi-wiring/bi-amping.



Tweeter

The titanium Synchrony tweeter, an evolution of PSB's famous 25mm metal-dome design, incorporates more than a score of new features engineered to extend high-output, distortion-free response while banishing the dynamic compression that limits most designs. This is achieved by a lighter, stiffer, and Ferrofluid-cooled voice-coil, along with a computer-optimized magnetic circuit using a high-flux neodymium magnet to maintain perfect linearity under even the highest power drive.





PSB conceived Synchrony to make real-world audio and home theater systems and their rooms work better, and thus sound better. Synchrony acoustical modeling minimizes the negative synergy of typical speaker placements and room acoustics; Synchrony's "tweeter-under" driver-array is computer-derived to spread the listening "sweet-spot" over seated-to-standing height; every Synchrony model presents a stable, easy-to-drive electrical "load" that encourages the amplifier's highest performance.

Synchrony Two B Bookshelf



PSB Synchrony Two C Center Channel and Synchrony S Surround Speaker

Technical data

	Synchrony One Tower	Synchrony Two Tower	Synchrony One B Bookshelf	Synchrony Two B Bookshelf	Synchrony One C Center Channel	Synchrony Two C Center Channel	Synchrony S Surround Speaker
Frequency Range							
Response							
On Axis @ 0°±3dB	30-23,000Hz	36-23,000Hz	47-23,000Hz	50-23,000Hz	50-23,000Hz	55-23,000Hz	75-23,000Hz
On Axis @ 0°±1dB	33-20,000Hz	36-20,000Hz	47-20,000Hz	50-20,000Hz	50-20,000Hz	55-20,000Hz	75-20,000Hz
Off Axis @ 30°±3dB	33-10,000Hz	36-10,000Hz	47-10,000Hz	50-10,000Hz	50-10,000Hz	55-10,000Hz	75-10,000Hz
LF Cutoff -10dB	24Hz	29Hz	38Hz	40Hz	40Hz	49Hz	70Hz
Sensitivity							
Anechoic Chamber	88dB	88dB	86dB	86dB	88dB	87dB	86dB
Listening Room	90dB	90dB	88dB	88dB	90dB	89dB	88dB
Impedance							
Nominal	4 Ohms	4 Ohms	4 Ohms	4 Ohms	4 Ohms	4 Ohms	4 Ohms
Minimum	4 Ohms	4 Ohms	4 Ohms	4 Ohms	4 Ohms	4 Ohms	4 Ohms
Input Power							
Recommended Program	20 - 300 Watts	20 - 300 Watts	15 - 150 Watts	15 - 150 Watts	15 - 200 Watts	15 - 200 Watts	15 - 150 Watts
	300 Watts	300 Watts	150 Watts	150 Watts	200 Watts	200 Watts	150 Watts
Acoustic Design							
Tweeter (Nominal)	1" (25mm) Titanium Dome with Ferrofluid	1" (25mm) Titanium Dome with Ferrofluid	1" (25mm) Titanium Dome with Ferrofluid	1" (25mm) Titanium Dome with Ferrofluid	1" (25mm) Titanium Dome with Ferrofluid	1" (25mm) Titanium Dome with Ferrofluid	2 x 1" (25mm) Titanium Dome with Ferrofluid
Midrange (Nominal)	4" (102mm) Fine weave fiberglass Natural fiber cone Rubber Surround				4" (102mm) Fine weave fiberglass Natural fiber cone Rubber Surround		
Woofer (Nominal)	3 x 6-1/2" (165mm) Fine weave fiberglass Natural fiber cone Rubber Surround	3 x 5-1/4" (135mm) Fine weave fiberglass Natural fiber cone Rubber Surround	6-1/2" (165mm) Fine weave fiberglass Natural fiber cone Rubber Surround	5-1/4" (135mm) Fine weave fiberglass Natural fiber cone Rubber Surround	2 x 6-1/2" (165mm) Fine weave fiberglass Natural fiber cone Rubber Surround	2 x 5-1/4" (135mm) Fine weave fiberglass Natural fiber cone Rubber Surround	2 x 6-1/2" (135mm) Fine weave fiberglass Natural fiber cone Rubber Surround
Crossover	2,200Hz, LR4, 500Hz	2,200Hz, LR4	2,200Hz, LR4	2,200Hz, LR4	2,200Hz, LR4	2,200Hz, LR4	2,200Hz, LR4
Internal Volume	2.35 cu ft (67 liter)	1.8 cu ft (51 liter)	0.75 cu ft (21 liter)	0.6 cu ft (17 liter)	1.3 cu ft (35 liter)	0.9 cu ft (26 liter)	0.8 cu ft (23 liter)
Design Type	Bass Reflex	Bass Reflex	Bass Reflex	Bass Reflex	Bass Reflex	Bass Reflex	Bass Reflex
Size (W x H x D)							
	8-3/4 x 43 x 12-3/4" 221 x 1092 x 325mm	7-1/2 x 39-1/2 x 10-3/4" 187 x 1000 x 273mm	8-3/4 x 14-1/2 x 12-3/4" 221 x 364 x 325mm	7-1/2 x 13-1/2 x 10-3/4" 187 x 343 x 273mm	24-1/4 x 8-3/4 x 12-3/4" 614 x 221 x 325mm	18 x 7-1/2 x 10-3/4" 458 x 187 x 273mm	11 x 13-1/4 x 8" 275 x 334 x 203mm
Weight							
Net	61 lb (28kg)/each	45 lb (21kg)/each	21 lb (10kg)/each	16 lb (7kg)/each	37 lb (17kg)/each	22 lb (10kg)/each	20 lb (9kg)/each
Shipping	71 lb (32kg)/each	52 lb (24kg)/each	48 lb (22kg)/pair	36 lb (16kg)/pair	42 lb (19kg)/each	25 lb (11kg)/each	45 lb (20kg)/pair
Finish							
	Black Ash or Dark Cherry	Black Ash or Dark Cherry	Black Ash or Dark Cherry	Black Ash or Dark Cherry	Black Ash or Dark Cherry	Black Ash or Dark Cherry	Black Ash or Dark Cherry

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