

YAMAHA YP-B2

Natural Sound Belt-Drive Auto-Return/Cut Turntable

Precision 4-Pole Synchronous Motor

Full-Sized 12-Inch Aluminum Die-Cast Platter

Low 0.08% or Less Wow & Flutter

Sensitive S-Shaped Tonearm with Anti-Skate Dial



Yamaha: Dedication to Musical Excellence

Today the world's largest manufacturer of musical instruments is also a leader in audio fidelity. For nearly a hundred years Yamaha craftsmen have been designing full, natural sound into our renowned pianos, organs, wind and string instruments—a rich musical tradition that makes us unique in the audio world. Part of the reason is our generations of musical sensitivity. But it's also due to our immense technological and production capabilities—built over decades of supplying fine musical instruments to the world.

The Basics

Audio performance depends upon a wide range of technologies. While Yamaha's computer-controlled circuit design and testing is second to none, our musical instrument experience has given us expertise in many other crucial fields. The Yamaha factories which produce LSIs and semiconductors for our electronic organs were also important in the development of the revolutionary Yamaha vertical FET and SIT used in our top-line B-2 power amplifier and C-2 stereo preamp. They are also responsible for our unique vapor deposition production of the world's only pure beryllium dome speaker diaphragms. After years of blending and forming the metals in our brass instruments, we were able to develop the special alloys used in our powerful speaker magnets. Piano frame diecast techniques are behind the ideal weight and acoustic properties of our turntable platters and speaker frames. And Yamaha piano soundboard research and cabinet woodcrafting is reflected in our resonance-free speaker enclosures and beautifully detailed components cabinetry.

In-House

Every crucial part of every Yamaha audio component is Yamaha made. That's how we set our own quality standards. And that's how we can afford to innovate every step of the way: When a part or material doesn't do justice to the music we simply develop one that does.

The Payoff

When you have musicians and audio engineers speaking the same language the result is full natural sound fidelity, plus innovative features which translate directly into improved tonal quality or operating convenience. Yamaha's insistence on total music performance, not just isolated specs, is behind a revolutionary new approach to audio component design—one that makes the YP-B2 a truly musical turntable.

THE YP-B2: CONVENIENCE WITHOUT COMPROMISE IS YOURS IN THIS NATURAL SOUND TURNTABLE

The Basics Are Better Than Ever

We've noted that good basic audio performance depends on far-from-basic technological refinement. And that's just what is offered in the YP-B2, developed from the time-tested belt-drive format into a turntable to equal the performance of many so-called "sophisticated" direct-drives. Yamaha technology has improved the drive system, using a synchronous motor whose steady revolution is conveyed to the carefully dynamically balanced full-sized platter via a precision-made belt of special material. Technology has likewise improved the trackability and sensitivity of the YP-B2's tubular tonearm: we use a shallow S-shaped tubular arm and have added a resonance-free headshell of pure aluminum for still better performance. Still another basic area of concern to our engineers is "howling" and how to prevent it. The effectiveness of the acoustic insulators, and of the design and materials of the cabinet and dust cover is proof that all vibration is shut out before it reaches the stylus to spoil your music. In specific terms, these refinements add up to superior performance: 0.08% or less wow and flutter (WRMS) and a signal-to-noise ratio of 62dB (DIN B) are just two of the reasons we say "basic has never been better."

And again, because of Yamaha's far-ahead technology, none of this fine performance is compromised with the addition of the YP-B2's easy-to-use Automatic Return and Automatic Cut conveniences. Here are the details on this outstanding Natural Sound turntable from Yamaha.

Amazing Accuracy from Belt-Drive System

You can trust Yamaha to make sure all of the music on your record is reproduced accurately and without annoying pitch deviations in the YP-B2. We've used a 4-pole synchronous motor which is synchronized to the frequency of the power supply; it therefore is unlikely that it will be affected by changes in the power supply voltage or in fluctuations in load on the platter. Then, in transmitting the motor's drive force to the platter, we've designed a flat drive belt of special material: the belt is protected

against deterioration, deformation and "slap" because this material is unaffected by chemicals and climatic changes.

Full-Sized Platter of Die-Cast Aluminum

How important is the design of a platter to turntable performance? One indication is found in the performance of the YP-B2: the full-sized (12-inch/30cm) platter we use is of heavy aluminum and when it is formed, in the die-cast process, we make certain it is dynamically balanced to extremely fine tolerances. Patient finishing of the platter, and of the spindle bearing and motor pulley to within one micron, further ensures ultra low friction for still higher speed accuracy.

The Tonearm Has Long Effective Length and High Sensitivity

We've mentioned that the 0.08% wow/flutter and 62dB signal-to-noise ratio specifications of the YP-B2 are the result of the precision motor and drive system. In practical terms, they permit you to play a record of, say, solo piano music, and hear every note clearly and without wavering. But these superb specifications would be of little value without a tonearm as sensitive as the one on the YP-B2.

For the support, Yamaha engineers have developed one which offers freedom of movement and high sensitivity in not only the horizontal plane but in the vertical plane as well. This permits the stylus to track all undulations in the record groove very accurately.

Resonance-Free Headshell

Do you like your music loud? If so, you might already have observed the effect of high sound-pressure vibrations from your speakers on your old-fashioned record player: it creates acoustic feedback, also called "howling." The YP-B2, with its sturdy, rugged wooden cabinet and highly effective rubber insulators, successfully avoids the howling, but Yamaha wanted to make double certain by equipping the turntable with a resonance-free headshell. So we've designed a universal (EIA Standard) plug-in type headshell of pure aluminum. So we've designed a universal (EIA-standard) plug-in type of pure aluminum whose one-piece

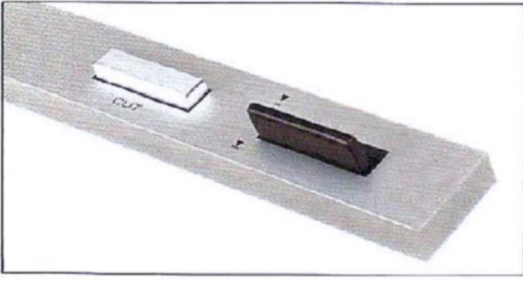


construction and specially calculated shape resists resonance. The sound improvements are impressive, especially in the bass or low-frequency area.

Oil-Damped Arm Lifter and Direct-Readout Adjustors

you can avoid it, you should never lift or lower a sensitive tonearm by hand. The oil-damped arm lifter on the YP-B2 does the

job for you, helping you avoid damage to the arm and your records at the same time. Then, for easier adjustment of tracking force and anti-skating compensation, the tonearm is equipped with (1) a direct-readout 0.5-gram stepped tracking force dial and (2) a direct-readout anti-skate dial. The latter assures that the tip of your stylus will not be affected by "inside force" as it nears the center of the record.



Auto Return/Cut Makes Handling Easy

Anyone can use the YP-B2 and enjoy its superb audio performance with a minimum of fuss. With a record on the platter, simply move the tonearm edge of the record, and the platter will begin to rotate. Having



positioned the tonearm directly over the edge of the record, now pull the arm lifter down gently. When the record has been played to its end, the tonearm is automatically lifted and returned to its rest: power to the entire turntable is then automatically shut off. The last two functions also take place automatically whenever you wish to stop play before the end of the record by pushing the CUT button again. If you wish merely to interrupt play without returning the arm and shutting off the power, simply raise the arm with the oil-damped lifter.

Anti-Resonance Design

Three important factors combine to help lower the "howling" or resonance characteristics of the YP-B2. One is, of course, the very low vibration of the drive motor itself. Two, the design of the rugged-cabinet and the resonance-free dust cover. And three, the special "W" type rubber insulators or "feet" positioned at the four

corners of the cabinet. No harmful resonance, whatever its source, can reach the tonearm and your stylus to result in false coloration.

Fit the Cartridge of Your Choice

The YP-B2 comes without a phono cartridge, so you can fit the phono cartridge you already have, or choose one that best satisfies your tastes in music or budget. And of course, you can always consult your Yamaha dealer. He'll be happy to make recommendations.

Handsome Furniture Appearance

We've taken extra care to make the YP-B2 as good looking as it is good sounding. The rubber mat for the platter has a pleasing design and a shape to provide better platter-to-record contact. The free-stop dust cover is of clear polystyrene for lasting protection. And the cabinet itself is finished in deep-luster simulated Envoy Walnut to blend with the best of contemporary room decors.

SPECIFICATIONS

TURNTABLE		GENERAL	
Drive System	Belt drive	Effective Length	215 mm (8-1/2")
Motor	4-pole synchronous type	Overhang	16 mm
Turntable Platter	30 cm (12") die-cast aluminum	Suitable Cartridge Weight	4 - 10 grams
Speeds	33-1/3 and 45 rpm	Headshell	Plug-in type to EIA standard
Signal-to-Noise Ratio	Better than 52 dB	Power Supplies	U.S.A. and Canada: AC 120 V, 60 Hz
Wow and Flutter	Better than 0.08% wrms	Power Consumption	9 W
TONEARM		Dimensions (W x H x D)	435 x 140 x 360 mm (17-1/8" x 5-7/8" x 14-1/4")
Type	S-type static balance	Weight	6 kg (13 lbs. 3 oz.)

Specifications subject to change without notice.

For details please contact:

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