

marantz® STEREO COMPONENTS

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Archiv Michael-Otto*



We sound better.

Music, like love . . .
is a universal language.

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denison

Start with styling, precision and quality . . .

This is what you look for when you're buying that
"Special something." That rare imported car.
That antique clock . . . or original painting.
That new stereophonic system.
And you want your "special something" to be
classic in styling, perfect in precision . . . and to last
long after the novelty wears off.

The Marantz people want you to know as much
about stereo components as you like.
Learn about tuners. Learn about amps and preamps.
Learn what your own personal likes and needs are.
Because the more you learn . . . the more
you'll appreciate Marantz.

Plenty of owners of stereo systems don't know
their THD from their RMS.

But, then, they most likely don't own a
Marantz, either.

In this brochure Marantz offers nineteen models of
stereo components. Each with different features
and its own separate benefits.

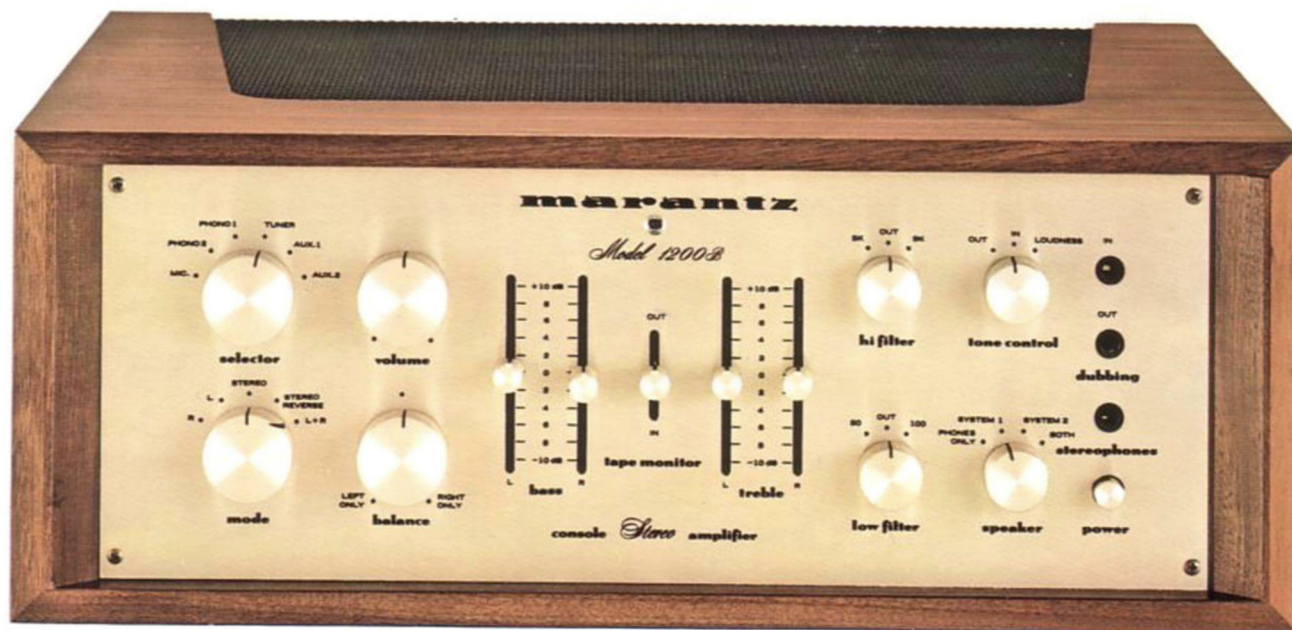
By the time you've read it, we hope you'll feel
a little more informed and a lot more comfortable
about choosing the right models for yourself.

Of course, you don't have to be an audio buff to
think Marantz. But if you're a thorough shopper . . .
careful about making the right decision and
concerned about getting the very best for your money —
compare the features, look at the benefits,
and listen to the difference . . .

You'll end up with Marantz.

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Stereo Console Amplifiers



Model 1200B Stereo Console Amplifier

The fact that the Model 1200B is the highest-power, lowest distortion, integrated amplifier in the world — is an excellent reason to choose one. But because there's not another amp made today that can compare in power and price . . . you don't really have to make any choices at all. The Marantz 1200B is specified at 200 Watts of continuous power but typically does more than 230. And see what else you'll be getting. Versatility. The 1200B is equipped with inputs for stereo microphones, two phono turntables, a tuner and two auxiliary

stereo sources. And the high and low filters each have two cut-off frequencies. You get reliability too. Full automatic protection of output circuitry and associated speakers. The Marantz exclusive Variable Overlap Drive compensates for natural aging of the power amp's internal components, assuring continual "like new" performance. And professional graphic tone controls are independent for each channel. What you wouldn't be getting is very much total harmonic or intermodulation distortion. Less than 0.1%.



Model 1120 Stereo Console Amplifier

If you don't feel you need the extreme power and versatility of the Model 1200B, Marantz made the Model 1120 for you. It puts out enough power to fill your house with music, yet it's just right for a den or smaller room as well. 120 Watts continuous power (typically 150) into 8 Ohm speakers, with less than 0.2% total harmonic and intermodulation distortion. Complete computer-grade con-

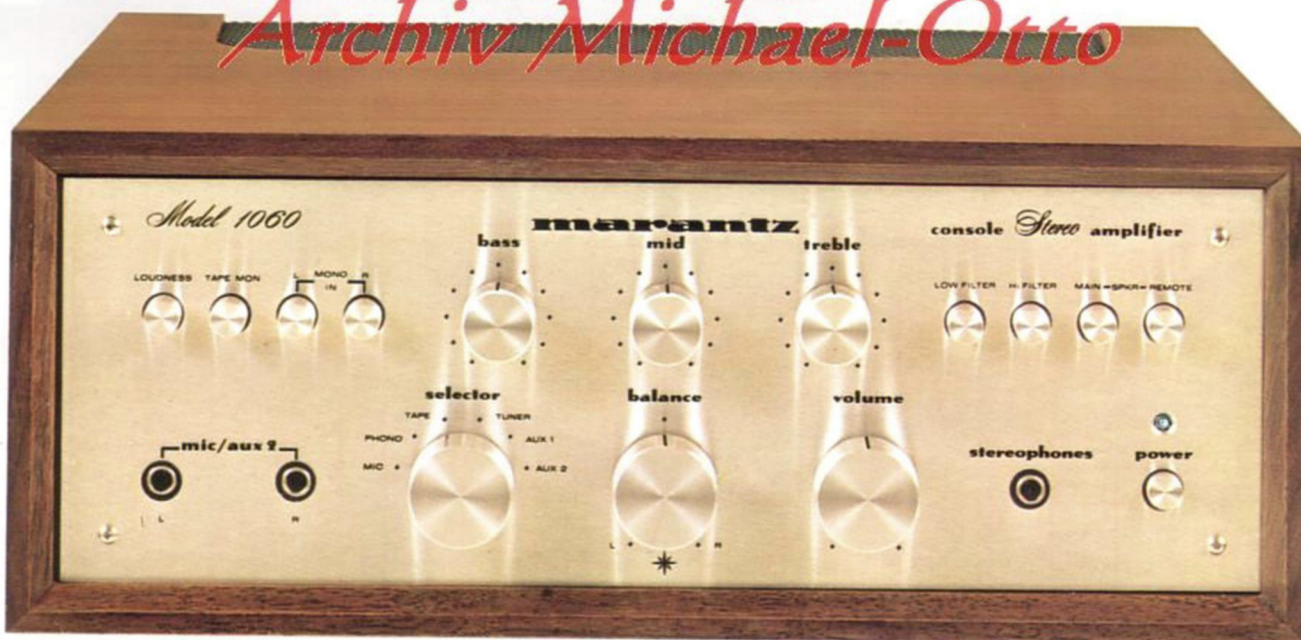
struction assures precision performance from all internal components without aging or distortion. Total automatic protection of all output circuitry, plus a full complement of inputs for microphones, phono, tuner, two tape recorders and auxiliary are all part of a package that can't be beat for quality, performance or price.



Model 1070 Stereo Console Amplifier

Ambidextrous stereo. That's what we call the kind of music that springs from the 1070. Stereo with a little something extra added. An ambience circuit that enhances your stereo listening with the vibrant synthesized effect of 4-channel sound. Want to purify that sound? Use the low and hi filters and eliminate low and high frequency noises created by older records, turntable rumble, etc. If you're technically inclined there's gain in-pre out jacks so the preamplifier and amplifier sections of the 1070 can be operated independent of one another. And power-wise you're well stocked with over 70

Watts continuous power. And the 1070's short on distortion. The direct-coupled full complementary circuitry assures less than 0.3% THD and IM distortion (typically 0.1%). And feature this. A tape monitor switch which enables two tape decks to operate simultaneously so you can dub from one to another. For sound control there's professional slide-type bass, mid and treble controls. Plus a loudness control switch for boosting low and high frequencies at low listening levels. Any way you use it, you'll find the 1070 is a "pro-minded" amplifier.



Model 1060 Stereo Console Amplifier

The particularly nice thing about the Marantz 1060 is that it will go with just about any sized speaker system and still put out enough power to cover a room full of people. 60 Watts worth of power. And more like 90 Watts under typical listening conditions. At full volume or low level the distortion stays about the same. Or perhaps we should say "lack of distortion." The Model 1060 has less than 0.5% THD and IM (total harmonic and intermodulation distortion.) Typically 0.1%.

And the sound quality is taken care of at both ends of the frequency spectrum. There's a high filter to eliminate record scratch and tape hiss. And a low filter to cut hum and rumble. You can select from any one of six signal sources. Other features include input for two tape recorders, as well as front panel stereo microphone input jacks. The list goes on. But for the Marantz 1060 listening is believing. You can do both.



Model 1040 Stereo Console Amplifier

Get spoiled. With the 1040 you're getting all traditional Marantz features and saving yourself some money at the same time. At 40 Watts of continuous power you're getting a little less power than the Marantz 1070. But the same ultra-low distortion goes with it (0.3% THD and IM). Direct-coupling and fully complementary circuit design is why. We've even added a thing or two. Like the ambience circuit for realistic synthesized 4-channel effect. Increasing your stereo music listening pleasure with a new dimension. And the professional-

style graphic bass and treble slide controls allow precise, visual control setting. The hi filter is included for eliminating high-frequency noise, such as tape hiss or surface noise from your older records. Two AC convenience outlets are also included. One switched and one unswitched. And the tape monitor switch allows two tape decks to function simultaneously. Plus, you can dub from one tape deck to another. You'll have to agree this is a great way to get spoiled. The Marantz 1040. We spare no expense so you can.

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Model 1030 Stereo Console Amplifier

The little giant. Little refers to price. Giant refers to quality. Because while the Model 1030 is the least expensive component Marantz makes — it's still assembled with all the same precision craftsmanship and meticulous construction as the costlier units. It's not quite as powerful nor does it have as many features. So, what we're really saying is you're not paying extra for extras. What

you *do* get is 30 Watts or more continuous power with less than 0.5% distortion. There's a tape monitoring facility and front panel microphone input. The main and remote speakers have quick-connect terminals. Plus, stepped tone controls for easily repeatable settings. The Model 1030. Thank Marantz for small favors.

The blue notes of a weeping trumpet . . .

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How does a component earn
the name Marantz?

Simply, it has to be the best.

But it's not quite as simple as that.

By "best" we mean that component
has to go a long step further than

being hand-crafted and precision-built.

It must be more than technically superior.

All stereo components assembled must be repeatedly
tested to meet continuous high specification
standards before the final addition is made.

The Marantz signature.

Like a seal of approval, the Marantz name is the
owner's assurance of reliability in craftsmanship.

And for reassurance, tested findings on
each of the components are consistently
better than listed specifications.

Overall, Marantz specs are the finest in the field.

And yet, they'll perform at between ten and
twenty percent better than listed.

Stereo Tuners

Marantz makes 3 tuners. Not 6 or 10 or 20. Because one is all you need. And you'll find the right "one" among our three. Any more than that only costs more to you, to us, and confuses everybody. Each stereo tuner offers complete functional features and controls. The professional Marantz performance is never dictated by price.



Model 120B AM/FM Stereo Tuner

The Model 120B (as in *Best*) is the successor to the famous Marantz Models 10B and 20B. This year we made the built-in oscilloscope bigger. Now a full three inches. You still get the same tuning and Multipath indications for maximum performance and minimum distortion. It also indicates the best orientation for your outdoor FM antenna. And something new — complete 4-channel display capabilities with this scope. This means you can actually see what effect your 4-channel system's controls have on the music you're into. See the difference between SQ* and CD-4** And observe the changes in your stereo program when the Marantz exclusive Vari-Matrix with Dimension Control is put to work, giving you all the vibrance of synthesized 4-channel sound. Plus, you still get 2-channel display capabilities that show stereo separation and allow you to check if a station is broadcasting in the proper phase. So, you have a built-in visual indicator simply unequaled by any number of meters and dials. And more. The Marantz 120B features a Phase-Lock Loop (PLL) FM Stereo Multiplex Demodulator for precise stereo separation and minimum distortion from FM Stereo

broadcasts. Or, to be more technical, this feature automatically maintains a precise phase relationship with the 38kHz subcarrier through an electronic servo loop. The technology of PLL was perfected originally for communications in NASA's Space Program. Just another example of Marantz' continuing efforts to offer the very latest in space-age solid-state technology.

And speaking of the future, Marantz has added the "4-channel ready" Quadradial output jack for decoding 4-channel broadcasts when approved by the FCC. Add to all this more outstanding Marantz features like Gyro-Touch Tuning, which provides greater tuning accuracy by moving the actual flywheel. And the FM Muting and Muting Threshold control to eliminate inter-station noise when tuning, or permits you to receive weak stations that would normally be muted. Include the unique Hi Blend to quiet background noise from marginal stations without audibly affecting stereo separation or frequency response. Anyway, to make a long story short . . . the Marantz 120B is simply the finest tuner made today, for tomorrow. And *that's* what Marantz is all about. *TM, CBS Laboratories **TM, Victor Co. of Japan



Model 115B AM/FM Stereo Tuner

Introducing the versatile one — the Marantz 115B. It goes with everything from our 60 Watt per channel console amp all the way up to our 400 Watt component system. And it's loaded with front and back panel features. A Phase Lock Loop multiplex decoder assures maximum separation and minimum distortion on FM stereo broadcasts. With the added help of the steep quieting slope, outside noise from distant stations is eliminated. And the FM muting threshold control brings up weak sta-

tion reception for full, vibrant sound. A special feature is the "four channel ready" quadradi- al output jack that, when attached to a decoding unit, will receive 4-channel broadcasts when ap- proved. The Gyro-Touch tuning wheel and two illuminated tuning meters assure accurate optimum reception. Add to the precision performance, ad- vanced FET and IC circuitry and you can see why the Model 115B is called versatile. After all, it's a Marantz.

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Model 105B AM/FM Stereo Tuner

Marantz wanted to make a stereo tuner that was a cut above other brands, yet, at a price com- parable. In a way, we failed . . . because this costs less. The Model 105B has the same precision and quality as the other Marantz components. We've simply returned to the basics. You still get our exclusive Gyro-Touch tuning for accuracy. And the dual-purpose meter indicates best tuning position for optimum reception on AM or FM. Complete advanced FET and IC circuitry throughout assures

superior, dependable performance. There's also a built-in ferrite AM antenna, plus inputs for FM and external AM antenna. We've even included the "four channel ready" Quadradi- al output jack for future use. The 105B has the same gold-anodized front panel with complete complement of push- switch selectors. There's even an optional hand- rubbed walnut cabinet to match. Features that feel like extras . . . without the extra cost. Basically, Marantz at its best. But not too basically.



Model 500

Professional Stereo Power Amplifiers

Something for the pro and near-pro. If you want the kind of power it takes to cover a full auditorium or even your own private recording studio, the Professional Stereo Power Amplifier is the brute force of your system. Marantz has 5 brutes to choose from. They are the ultimate in amplification. And each one has the strength to perform with precision to match just about any audio challenge you present. We can only show you pictures of our components and talk about them here. Your best test is to visit a Marantz dealer and let your ears do the talking.



The magnificent brute. The Marantz 500 is 83 pounds of effective force — the ultra-dependable power needed for sound reinforcement, stereo monitoring and extra-strenuous custom stereo applications. It is, without dispute, the very lowest distortion, high-powered basic amplifier ever produced. This is the end-result of over three years of extensive research and development. The distortion level of the Model 500 is so minute that even the finest laboratory equipment cannot accurately measure it. We rate it conservatively at 0.05% total harmonic and intermodulation distortion. This unit will continually deliver 250 Watts of power per channel into 8 Ohm speakers at a range from 20 Hz to 20 kHz (typically 300 per channel). The Marantz 500 is made to perform with precision.

And for extended periods of time. The built-in cooling fan permits full output operation for as long as demanded, without subjecting the output transistors to excessive temperatures. The front panel features illuminated output meters. These meters give visual indication of actual power output to the speakers. This means that speaker overload and/or overdriving amplifier inputs can be checked and avoided. Behind the gold-anodized front panel is the fully automatic self-protective circuitry and instant overload recovery. You might say the Model 500 takes care of itself. And the completely enclosed metal chassis shields and protects internal components. You'll never need a better amplifier than this. Because there is no better.



Model 400M Professional Stereo Power Amplifier

The show-off. Proven performance with power plus. That's the Model 400M. Well over 400 Watts of continuous power to drive your system anywhere, anyway you want it to perform. And perform it does. With distortion so low it's impossible to perfectly detect even on the finest test equipment. We rate it conservatively at 0.1%. However, typically it rarely exceeds .05%. When we call the 400M the show-off we mean just that. The two large illuminated output level meters serve a dual function. First, the meters monitor actual output power to the speakers. And second, they indicate left and right channel balance for instant, easy

placement of the stereo image. With the help of the meter range switch these meters show full display for readings at all output levels. Plus, we've even included peak overload indicators to show you what the meters can't. The 400M has gain controls for left and right channels. Furthermore, it's unconditionally stable, even into highly reactive loads such as electrostatic speakers. All constructed with full protective circuitry. Thinking of doing your own studio monitoring or custom audio recordings? You came to the right place. The Marantz 400M. It's just about the most versatile performer around.

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Model 400 Basic Stereo Amplifier

The undercover story. Think of the Model 400 as the alternative. Because, in short, this model is the same amplifier as the 400M. We just took out the meters and saved you a few dollars more. We left in the peak overload indicators, though, to tell you whenever you've exceeded design limits. Same performance. Same power (over 400 Watts of continuous power). Same low, low distortion (under 0.1%). Same Marantz precision construction. You still get the gain controls for individual left and right channel. And there's still the full self-protect-

tive circuitry throughout. Plus Variable Overlap Drive. This feature automatically compensates for natural aging of components, giving your system continual "like new" performance every time. A relay-operated time delay circuit eliminates that familiar turn-on "thump" so common in other high power amplifiers. So, if you're a frugal buyer, just a little more cost conscious... get the Marantz 400 (without the "M"). We promise you won't miss it, once you hear the music this professional system makes.



Model 250 Professional Stereo Power Amplifier

250 Watts of continuous power may be more than enough for you to have your own homemade jam session. Because the Model 250 offers the kind of brute strength you need for vibrant, professional stereo sound in a variety of uses, such as studio monitoring, sound reinforcement and custom stereo applications. Under typical use this Marantz amplifier puts out up to 300 Watts of power into 8 Ohms, from 20 Hz to 20 kHz, with less than 0.1% THD and IM distortion. An added feature

for the pro is the illuminated output level meters. These meters work as visual indicators, showing actual power output to speakers. With them, speaker overload and/or overdriving amp inputs can be checked and, consequently, avoided. Also, the meter range switch gives full meter deflection indication at low output levels. Power, features, price. And the nicest thing about the Marantz 250 is that you don't have to compromise one for another.

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Model 240 Basic Stereo Amplifier

Not just another pretty face, the Model 240 offers the same reliable power, the same craftsmanship and endurance as the Marantz 250. What it doesn't offer is the two front panel meters. With this model you get all the same high-performance features — but you don't get the meters to tell you about them. You get the Variable Overlap Drive, which automatically compensates for natural aging of components, giving continual "like new" performance. And the Model 240 offers complete sta-

bility regardless of load, massive heat sinks and more. 250 Watts continuous power into 8 Ohm speakers, (typically 300) from 20 Hz to 20 kHz with total harmonic and intermodulation distortion under 0.1%. So, for the identical Marantz quality you're saving yourself some money. When you're thinking about buying a stereo power amplifier, think of the Model 240 as the one that's made to listen to — not look at.

And the ice cold slapping of the downbeat drums . . .
All come to life. With the magic of Marantz.

Who checks the checker?

Or better, what is Quality Control? QC is one of the main reasons Marantz is a cut above other stereo component lines. Inspecting, checking, testing, re-testing . . . and "re"-retesting every element of each unit assembled is the Marantz way of doing things.

And here's how it works. For an example, we'll take a look at what a Marantz Model 500 Power Amplifier goes through.

When all individual transistors and other components arrive at the Marantz factory they are checked both visually and electronically.

Upon passing inspection, they are assembled on a circuit board and again checked visually and electronically.

Once approved each circuit board is matched to another circuit board and electronically adjusted for maximum performance.

This final version of the circuit board combination is then hand-assembled into a finished product. Almost.

The assembled product is then sent to the Quality Control Assurance Station where some of the pickiest professionals in the business try their hardest to find something wrong with it.

If they can't, and this unit meets all final specifications, then it's ready for you. Nothing less than this finished unit will ever get that far. And to you, this simply means . . .

the true cost of a Marantz is more than paid back in years of trouble-free performance.

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Denison



Model 3800 Stereo Preamplifier/Control Console © beim Hersteller Archiv Michael Otto

The concert master with a very special touch. And that touch is Dolby*. The Model 3800 is simply the most versatile preamplifier Marantz has ever made. Never before has such a component been offered with such a low distortion factor as the Model 3800. Specified at 3 Volts output, this unit has less than 0.02% THD and under .01% IM distortion. Note that these are the figures at which we rate the system. Typically it performs at an even lower distortion level than this. Quiet is the word for the 3800. The Equivalent Input Noise of less than 0.775 microvolts provides a signal-to-noise ratio that's within 1 dB of the theoretical maximum of the solid state devices available today. And the unheard of Phono Dynamic Range figure of over 100 dB is the result of this ultra-low noise condition. Yet more than just an exquisitely constructed instrument with superb technical capabilities, this model incorporates the very standard of noise reduction systems in the industry. A full-process Dolby system ... and more. This dynamic Dolby circuit has a versatility all its own. While it works best with Dolby-encoded material, it also functions beautifully as a *Variable Dynamic Filter*. As an alternative to the Hi Filter which "rolls off" all high frequencies at any level, the Dolby *play position* can be used with any type of source material (other than Dolbyized) to reduce low level noise such as tape hiss and record noise without seriously affecting frequency response. Technically speaking, this fea-

ture functions by sampling the source material at frequencies above 4 kHz. When dynamic passages of your music drop to low levels a roll-off in high frequency response occurs, resulting in an improved signal-to-noise ratio.

So you're getting a full Dolby circuit plus a little something extra ... at no extra cost. And that's just part of the all-pro 3800 preamp. With the professional style graphic tone controls you get exact control settings instantly for separate bass, mid-range and treble. And more. With these controls you have the option of varying the frequency turn-over points (250 Hz and 4 kHz). This gives you more flexible control over the bass and treble range. Perfect for compensating for acoustical problems. The 3800 also has a tape monitoring circuit for two tape decks. You can even dub from one to the other while listening to a completely different program source. A tape EQ switch is also included. With this feature the tone controls can be applied to the tape output signal. This allows you to adjust for any deficiencies in the source material. Speaking of recording. In addition to the front panel dubbing jacks the 3800 has front panel microphone jacks for easy recording from live sound sources. As for the sound the 3800 makes. It's clear, crisp, quiet and real. Looking for the ultimate in control component that will keep working for you? That's the Model 3800. A new standard of excellence. From the old stand-by ... Marantz.

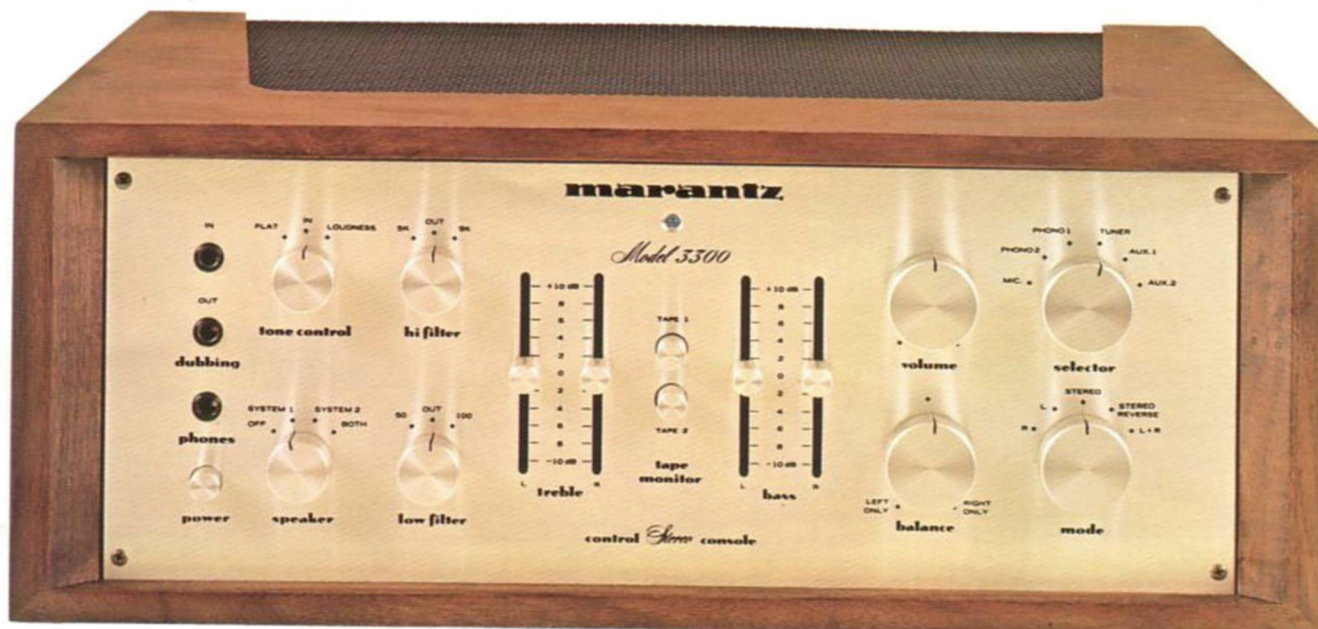
*TM Dolby Labs, Inc.



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For music lovers only. Marantz feels you should be able to spend less time at the controls and more time simply enjoying the music your components make. That's why we created the Model 3600. There's professional style graphic tone controls for quick, easy setting, plus equally easy return to exact original settings. These controls are separate for bass, treble and midrange. The last control being particularly handy for adjusting overall tonal balance of the music you're into. Individual low and hi filters are included. Reduce turntable rumble, cut down audible record scratch and tape hiss with them. And no matter how you vary the volume in your music the stereo balance is always under control. Because the 3600 includes a precision-tracking volume control. That's another typical Marantz pro feature. What really sets this unit apart from others is its super low level of distortion in the music it makes. THD and IM is rated consid-

erably under .02% and .01%, respectively. With a continually flat frequency response from 20 Hz to 20 kHz. And it remains the same at high output levels, too. All music, no noise. Aside from big brother, the Marantz 3800 preamp, there's not another model on the market that meets its Dynamic Range Figures of over 100 dB. So enjoy *all* your music all the time from whisper soft to booming loud. As for recording? Consider it easily done with the tape monitor circuitry for two decks included. Tape from one to the other. You can also utilize the two sets of preamp-out jacks. Plus, there's front panel microphone jacks for quick and simple recording from live sound sources. And a loudness control switch is included which boosts frequencies when listening at low volume levels. You get all this and more. Full dynamic range from a full dynamic system. So, go ahead and be a pro. Only make it easy on yourself with a Marantz 3600.



Model 3300 Stereo Preamplifier/Control Console

Complete audio control at your fingertips. For low noise, dynamic range and precision control over every audio variable, the Marantz 3300 is the heart of your stereo system. It offers maximum performance with a minimum of distortion (less than 0.02% THD and IM distortion at from 20 Hz to 20 kHz). Frequency response is $0.25 \pm \text{dB}$. And these are some of the features at your reach. Professional-style straight-line graphic tone controls assure quick visual control settings. And there are individual bass and treble controls for each channel. The high and low filters reduce rumble, record

scratch and tape hiss. Stereo balance is never affected when volume is changed, thanks to the precision-tracking volume control. It tracks within 2dB from minimum to maximum position. Other features include complete monitoring facilities for two tape decks, front panel headphone jack and separately controlled center channel output. And, of course, the gold-anodized front panel is standard Marantz luxury. The Model 3300 keeps your music under control. Another Marantz component that brings out the pro in all of us.

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Model 4000 Pre-Amp Adapter

Now we're talking to the man who wants a 4-channel system without replacing his quality stereo components. Marantz has created the Model 4000 just for you. By adding the 4000, a 2-channel power amp, plus two speakers to your system . . . you now have quadradiol sound at its room-filling best. And you also have a greater variety of controls and features than offered on a 4-channel receiver. The 4000 is your control center for volume, balance,

mode, and features rear channel tone controls. And your existing pre-amp controls are completely operable. On the 4000 you get all the standard Marantz quadradiol features: Vari-Matrix, balance controls, low and hi-filters, four illuminated meters and remote control output. With all the Marantz styling and precision, the 4000 works hard — so you can take it easy.



Model SE-1S Electrostatic Headphone System

There is no argument. The electrostatic headphone reproduces music better than any other conventional headphone can. Now Marantz introduces the SE-1S. The best of the finest. What makes the SE-1S the best? Lack of distortion. Here's why. The electrostatic transducer is better than the standard cone-type. So precise in consistency and low in mass (about three ten-thousandths of an inch thick!) that it reacts to all audio signals in a much more uniform manner. Regular cone transducers, because of their heavier mass respond and move in a radical motion. Their result? Transient distortion. They simply cannot "track" the incoming audio signals as precisely as a transducer with less inertia. The precise movement of the SE-1S

eliminates most all distortion. That means unequalled frequency response. And full dynamic range of the music you're into. Plus, higher sound pressure levels can be reached at much lower frequencies. As for comfort. The lightweight design of the SE-1S allows you to listen for as long as you like *without feeling weighed down*. The reason is the soft ear cushion and acoustical seal. The result is a "tailor made" fit that's more comfortable than a loge seat at a live concert. And one word about the music. Fantastic. You'll hear nuances and instruments you never heard before. Just like you're listening from the middle of the orchestra. Uninterrupted music... personally yours.

Model EE-1 Electrostatic Headphone Energizer

Workhorse for the SE-1S. The electrostatic headphone is powered by this low distortion energizer. There's built-in speaker/headphone switching. Ultimate convenience. Even an output for another set of electrostats (SE-1HP). So you can share that musical experience (also the privacy) with someone. And the EE-1 is easy on your ears, too. The

protective circuit automatically regulates to a safe level extremely loud passages in your music. Also automatically, the energizer will quietly turn off if severely overdriven. So you're taken care of. You can *safely* listen to your music as loud as you like. For once you don't mind a machine taking over.

POWER AMPLIFIER	500	400	400M	250	240	1200B	1120	1070	1060	1040	1030*
Power Output: Continuous Power at 8 Ohms, at or Below Rated Distortion 20Hz to 20kHz. Both Channel Driven at Rated Distortion.	500 Watts (250w/ch)	400 Watts (200w/ch)	400 Watts (200w/ch)	250 Watts (125w/ch)	250 Watts (125w/ch)	200 Watts (100w/ch)	120 Watts (60w/ch)	70 Watts (35w/ch)	60 Watts (30w/ch)	40 Watts (20w/ch)	30 Watts* (15w/ch)
IM Distortion: At or Below Rated Power, any Combination of Two Frequencies Between 20Hz to 20kHz. Both Channels Driven.	0.05%	0.1%	0.1%	0.1%	0.1%	0.1%	0.2%	.3%	0.5%	.3%	0.5%
Total Harmonic Distortion: At or Below Rated Power, any Frequency from 20Hz to 20kHz. Both Channels Driven.	0.05%	0.1%	0.1%	0.1%	0.1%	0.1%	0.2%	.3%	0.5%	.3%	0.5%
Frequency Response: High Level Input, from 20Hz to 20kHz.	±0.1dB	±0.1dB	±0.1dB	±0.1dB	±0.1dB	±0.25dB	±0.3dB	±1dB	±1dB	±1dB	±1dB
Input Sensitivity and Impedance	1.75 Volts 100kOhms	2.0 Volts 25kOhms	2.0 Volts 25kOhms	1.5 Volts 100kOhms	1.5 Volts 100kOhms	1.5 Volts 47kOhms	1.1 Volts 33kOhms	1 Volt 47kOhms	1 Volt 47kOhms	1 Volt 47kOhms	
Damping Factor:	400	100	100	100	100	100	40	45	45	45	45

*40Hz to 20kHz.

PRE-AMPLIFIER	3800	3600	3300	1200B	1120	1070	1060	1040	1030
Phono Section: Dynamic Range: Ratio of Input Overload Voltage to Equivalent Noise Equivalent Noise Input: Sensitivity and Impedance:	100dB 0.775μV 3mV 48kOhms	100dB 0.775μV 3mV 48kOhms	100dB 1.0μV 1.25mV 47kOhms	100dB 2μV 1.35mV 47kOhms	96dB 1.8μV 1.1mV 47kOhms	96dB 1.5μV 1.8mV 47kOhms	69dB 1.5μV 1.8mV 47kOhms	93dB 1.5μV 2.1mV 47kOhms	93dB 1.5μV 2.1mV 47kOhms
High Level: Input Sensitivity and Impedance	300mV 25kOhms	300mV 25kOhms	135mV 50kOhms	134mV 50kOhms	110mV 25kOhms	180mV 100kOhms	180mV 100kOhms	150mV 100kOhms	180mV 100kOhms
Tone Controls: Bass: 50Hz Mid: 700Hz Treble: 10kHz	±15dB ±8dB ±10dB	±15dB ±8dB ±10dB	±10dB — ±10dB	±10dB — ±10dB	±10dB — ±10dB	±12dB ±6dB ±12dB	±12dB ±6dB ±12dB	±12dB ±6dB ±12dB	±12dB ±6dB ±12dB
Output Level and Impedance:	3 Volts 150 Ohms	3 Volts 150 Ohms	3 Volts 600 Ohms	3 Volts 600 Ohms	1 Volt 900 Ohms	1 Volt 900 Ohms	1.1 Volts 47kOhms		
Total Harmonic Distortion: At or Below Rated Output	0.02%	0.02%	0.02%	0.02%	0.02%	0.03%	0.3%		
I.M. Distortion: At or Below Rated Output, any Combination of Two Frequencies Between 20Hz to 20kHz.	0.02%	0.02%	0.02%	0.02%	0.02%	0.03%	0.3%		
Frequency Response: 20Hz to 20kHz	±0.25dB	±0.25dB	±0.25dB	±0.25dB	±0.3dB	±1dB	±1dB	±1dB	±1dB

AM/FM TUNER	120B	115B	105B
FM Quieting Slope: RF Input for 30dB Quieting: Quieting at 5μV RF Input: Quieting at 10μV RF Input: Quieting at 50μV Input:	1.8μV 55dB 60dB 70dB	1.9μV 55dB 60dB 70dB	3.5μV 42dB 49dB 55dB
Total Harmonic Distortion: Mono: Stereo:	0.2% 0.3%	0.3% 0.4%	0.6% 0.8%
Selectivity: Alternate Carrier	75dB	60dB	48dB
Capture Ratio:	1.5dB	1.5dB	3.0dB
Stereo Separation: At 1kHz	42dB	42dB	40dB
Spurious Rejection:	95dB	90dB	70dB
Image Rejection:	90dB	80dB	50dB
IF Rejection:	100dB	70dB	50dB
AM Suppression:	60dB	50dB	55dB
AM Sensitivity:	20μV	20μV	25μV

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We sound better.

P.O. Box 99, Sun Valley, California 91352

Models and specifications subject to change without notice.

Superscope Europe, S.A., 430 Louise Avenue, 1050 Brussels, Belgium

Canada: Electrohome Ltd., 809 Wellington St., N. Kitchener, Ontario

Marantz Far East, Inc., 17-5, 3-chome, Hiroo Shibuya-ku, Tokyo, Japan

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MARANTZ PARTS AND LABOR WARRANTY

Marantz Company, Inc., proudly warrants your Marantz product to be free of manufacturing defects in material and workmanship as follows:

From date of purchase

Electronic components and Receivers	PARTS - 3 years LABOR - 3 years
Headphones	PARTS - 3 years LABOR - 3 years
4-Channel Remote Control and CD-400	PARTS - 3 years LABOR - 3 years
SQA-1 and SQA-2 Adaptors	PARTS - 3 years LABOR - 3 years
Speakers and Cabinets	PARTS - 5 years LABOR - 5 years

TO VALIDATE YOUR WARRANTY, YOU MUST FILL OUT AND MAIL THE WARRANTY REGISTRATION CARD TO MARANTZ COMPANY, INC., P.O. BOX 99, SUN VALLEY, CALIFORNIA 91352, WITHIN TEN DAYS FOLLOWING THE DATE OF PURCHASE.

For warranty repair, send this product to Marantz Company, Inc., 8150 Wilshire Avenue, Sun Valley, California 91352, or to an AUTHORIZED Marantz Service Station. All shipping charges must be prepaid, Marantz will pay return shipping charges to any designated point within the United States.

This Warranty is void if the serial number has been altered or removed; if the product is modified or repaired in any manner which Marantz believes may affect the reliability of the product; if the product is not operated in accordance with the instruction manual.

Marantz shall have no liability whatsoever for consequential damages. The sole responsibility of Marantz Company, Inc., under this Warranty shall be limited to the repair of the product, or replacement thereof, in the sole discretion of Marantz Company, Inc.

EXCEPT TO THE EXTENT THAT APPLICABLE LAW PRECLUDES A DISCLAIMER OF WARRANTY, THERE IS NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS WITH RESPECT TO THIS PRODUCT, NOR ARE THERE ANY OTHER WARRANTIES WHICH EXTEND BEYOND THE PROVISIONS OF THIS WARRANTY.