

the sound approach to quality
KENWOOD

FM/AM STEREO RECEIVER

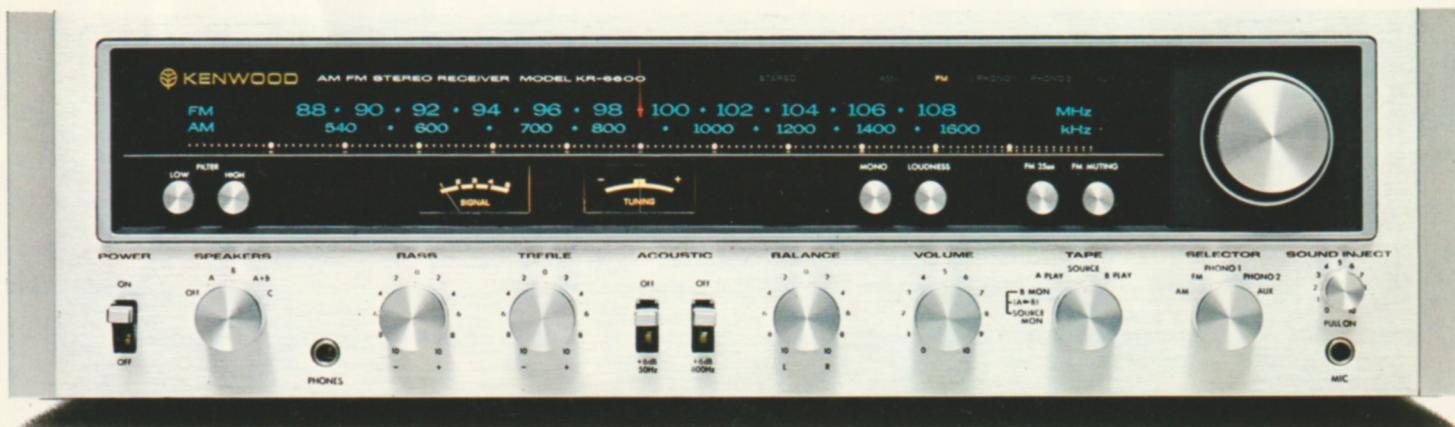
KR-6600

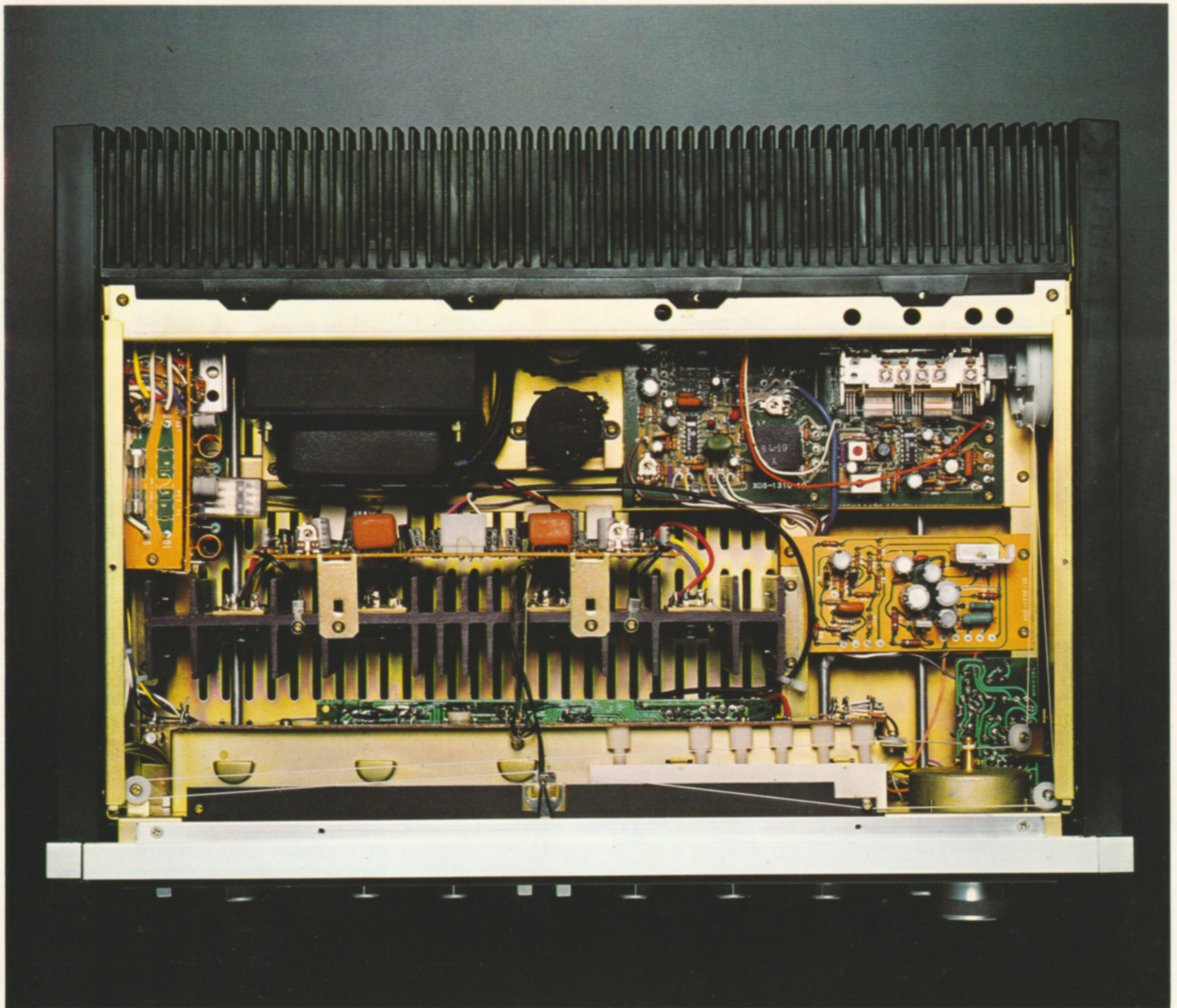
THE AUDIBLE DIFFERENCE



A No-Compromise Receiver with Big Power, Big Performance, Exclusive New Features for the Heart of Your Stereo System

No doubt about it. The KENWOOD KR-6600 was built to handle a sophisticated stereo system like a pro and deliver every decibel of sound from every program source with undeviating accuracy. There's power aplenty, of course, to handle the most power-hungry speakers: a full 60 watts per channel, minimum RMS measured with both channels driven into 8 ohms, at any frequency from 20 to 20,000Hz with no more than 0.3% total harmonic distortion. But more than power alone, the KR-6600 achieves a well-balanced performance throughout, from preamp, to power amp to tuner. This emphasis on total excellence is the hallmark of KENWOOD engineering. Thus big power is complemented by a host of technical advances that cut distortion throughout every phase of receiver operation; by new electronic developments that advance broadcast reception to new levels of high fidelity; by tough new materials that assure long-term dependability over years of constant use; by sophisticated controls that add to the delight of fine stereo with new flexibility and operating convenience. In every sense of the word, the KR-6600 is a luxury receiver, created without compromise, to deliver the best all-around performance possible where it counts the most—at the heart of your stereo system. Here are some of the reasons behind the great performance:



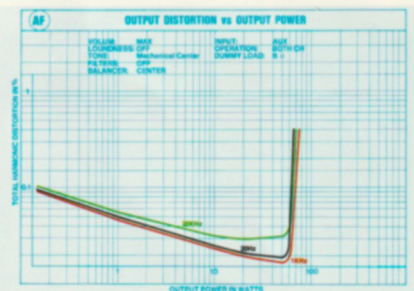


An Abundant Reserve of Power: Key to Top Performance

The large capacitors of the KR-6600 in dual positive-negative power supplies extend low frequency output and insure excellent transient response. The unit's unusually high power storage capacity, in combination with massive, cool-running power transformers and high output transistors mounted on oversize heat sinks, amply provides the energy the amplifier requires to reproduce clean, clear sound and assures thermally stable operation even under conditions of extended full power output.

Direct-Coupling with a Difference

Kenwood engineers, among the first to introduce direct coupling in power amplifiers, take the KR-6600 a step further with pure complementary symmetry in the power stages. The use of PNP and NPN transistors in both the driver stages and the output stages enables the power amplifier of the KR-6600 to operate over a much more linear region than is possible from ordinary direct-coupled designs. The result is not only better bass response and crisp transient response over the entire audio spectrum, but appreciably less distortion at all power levels.



Kenwood Circuit Protection — Good as Gold

The KR-6600 is equipped with multi-protection circuitry that not only guards the receiver itself but also protects your expensive speakers from any possible damage from power overload. Special "Area of Safe Operation" circuits constantly monitor the amplifier's operation, shutting off the power instantly should safe operating conditions be exceeded. In addition, gold-plated contact relays protect speakers from overload or dangerous power surges. Fool-proof protection for your valuable components.

Operational Amplifier IC's — Advanced New Hardware for Superb S/N

Amazing new advances in electronic componentry, born of space age technology, have enabled Kenwood engineers to design the phono equalizer and control amplifier sections of the KR-6600 with a totally new breed of IC. They're called "operational amplifier integrated circuits." They cut distortion well below levels previously achieved, bring the signal-to-noise ratio to brilliant new highs for phono play, and enable outstanding fidelity of the tone controls.

Acoustic Boost Switches — A Unique Kenwood Touch

In addition to the click-stop type tone controls and the high and low filters, the KR-6600 offers yet another kind of control over the sound you hear. Two "acoustic" switches let you boost the 50 Hz and 800 Hz regions of the frequency spectrum by 6 dB. The 50 Hz boost can overcome bass deficiencies in the program material, speakers or listening room, while the 800 Hz boost lends extra "presence" to the sound, makes speech clearer and vocal music come

alive. After a little experimenting, you will find these unique Kenwood controls a most welcome feature.

Sound Injection — Kenwood Lets You Join the Action

Plug a microphone into the front panel MIC jack and sing, play or deejay along with your favorite recording stars. The resulting you-plus-the-program mix is heard over the speakers but can also be taped for posterity. And here's an extra touch of Kenwood ingenuity: as you turn the MIC level up, the level of the other program material goes down to let you get just the right balance of sound without fuss.

Tape-Through Circuitry

No longer is it necessary to tie up your entire stereo system for hours of tape-to-tape dubbing. A unique Tape-Through Circuit permits the dual tape system of the KR-6600 to continue uninterrupted even while you listen to another program source. It's like having two stereo systems in one.

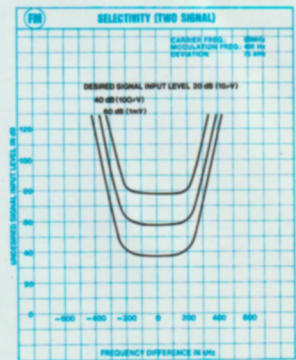
A Newly Developed FM Front End: Optimum Reception for All Signals

Low noise MOS-FET's and silicon transistors are used in the KR-6600 to provide maximum sensitivity ($1.7\mu\text{V}$) and noise-free reception of even the weakest

signals. At the same time, low noise MOS FET's prevent overload of the RF stage from strong local signals which could otherwise cause intermodulation distortion. Thus the KR-6600 handles both weak and strong signals with equal facility and minimal distortion.

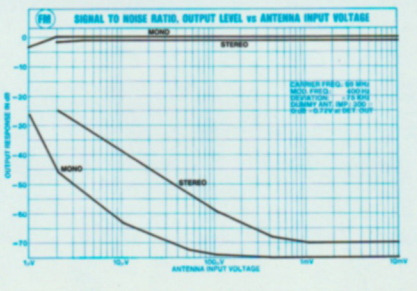
New Linear Phase IF Filters

Kenwood introduces a brand new type of IF filter designed to give better selectivity and tonal accuracy to FM. Known as the "flat group delay" filter, it combines a 3-stage, 6-element solid state filter and integrated circuit to provide high gain, early full limiting and stability at any signal strength. The 1.5 dB capture ratio and the 80 dB alternate channel selectivity of the KR-6600 are a direct result of this new IF design.



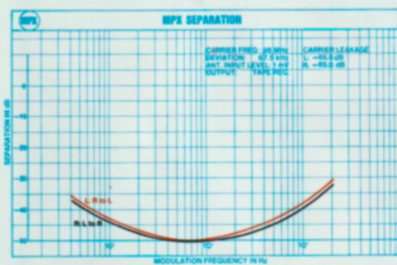
Low Distortion "Quadrature" FM Demodulation — Another Kenwood First

The most advanced of all known methods of retrieving the original audio signal from FM broadcasts is "quadrature demodulation." This method of distortion-free signal reception, delivers clean, crisp FM reception and lets you enjoy FM-stereo as it was meant to sound.



Phase-Locked-Loop Circuitry — An MPX Decoder with New Spatial Definition

In the past, stereo separation of FM stereo signals has tended to be well defined in the mid-frequencies but fall off rapidly in the high frequencies, leaving the listener with an imprecise stereo image in the upper reaches of the audio spectrum. Now an advanced technique for FM stereo decoding carries uniform separation of left and right stereo channels throughout the audible range of frequencies and allows you to enjoy full dimensionality from FM-stereo broadcasts. An operation amplifier IC with an extremely wide frequency range and a low pass filter further enhance stereo reception of the KR-6600.



Tuning Accuracy — A Key to Good Reception

Kenwood engineers have given the KR-6600 a number of devices to aid in achieving precise, center-of-channel tuning accuracy — a prime requisite for distortion-free broadcast reception.

Linear FM Dial Scale. A linear-frequency variable capacitor permits the FM dial scale to be calibrated in equal intervals across its full span from 88 to 108 MHz for easy-to-see channel demarcation.

LED's in the Dial Pointer. Three light emitting diodes in the dial pointer pinpoint precisely the center-of-channel position.

Two Tuning Meters. A signal strength meter to indicate maximum reception and an FM zero-center tuning meter further contribute to maximum tuning accuracy.

25 μ sec Deemphasis Switch — For *Dolby-Processed FM

“Dolby-izing” of FM signals is a modern way of suppressing noise. However, such Dolby-processed broadcasts employ a different standard of preemphasis — 25 μ sec against the conventional 75 μ sec.

To let you enjoy the natural sound contours of Dolby-processed broadcasts the KR-6600 incorporates a 25 μ sec Deemphasis Switch. For the full benefit of Dolby Noise Reduction, the KR-6600 also provides ADAPTER OUT/IN terminals for a Dolby outboard unit which can be added at any time.

*Dolby is a trademark of Dolby Laboratories, Inc.

Muting Switch Cancels Inter-Station Noise

The unpleasant “hiss” known as inter-station noise, so irritating when you tune across the FM band of some receivers, is completely suppressed in the Kenwood KR-6600. With the Muting Switch in ON position you hear stations where stations are — and nothing in between.

New Rear Panel Design for Added Protection

In keeping with Kenwood's belief that “human engineering” for convenience and safety is an integral part of engineering excellence, the KR-6600 has been designed with a unique recessed back panel, allowing the back of the receiver to be pushed flat against the wall without danger of disconnecting or tearing connection cords by accident.

Handsome Styling — A Complement to Fine Performance

The KR-6600 looks every bit the masterful receiver it is. Its brushed aluminum front panel complements the dark glass inset and clearly sets off the well identified controls. Every switch and knob has been arranged for logical, convenient operation.

And Inside, Neatness That Counts

Inside, the receiver boasts a layout as neat and uncluttered as the clean front panel design, with a minimum of internal wiring apparent. There is an important reason for this uncluttered look: vastly improved performance. In an ordinary receiver the multitude of wires crammed inside act like small antennas, picking up noise and hum from surrounding areas, or even picking up signals from another channel within the receiver to create cross-talk and distortion. By carefully designing the circuitry of the KR-6600 and eliminating all unnecessary wires, Kenwood engineers maintain the excellent signal-to-noise ratio of which the KR-6600 is capable.

Full Provision for Expansive Stereo

The KR-6600 was designed as a control center for an expansive and sophisticated stereo system. To that end it provides for three sets of stereo speakers; two turntables; two tape decks for recording, playback and tape-to-tape dubbing (either A-B or B-A); one auxiliary program source such as a cassette or cartridge player; and one microphone.

In addition, special terminals for ADAPTER OUT/IN can be used for a Dolby outboard unit, a 4-channel decoder/adaptor, graphic octave band equalization, or an electronic crossover network for multi-amplification. An FM DET OUT terminal will accept an FM Quadro Demodulator whenever 4-channel FM broadcasting begins.

Such versatility, indeed, attests to the scope and flexibility of the KR-6600 in providing you with all the conveniences usually associated only with separate components.

It All Adds Up to Greater Pleasure

The KR-6600 incorporates big power, advanced electronics, sophisticated new features, handsome styling. Its performance characteristics overall show it to be the best in its price range. It has been created in the Kenwood tradition of quality and dependability to maintain that fine performance through years of constant use. And it has but one purpose: to delight you with the finest musical reproduction that great stereo is capable of. It all adds up to greater pleasure.



Rack Mounting Handles (Optional)

KR-6600

SPECIFICATIONS

POWER AMPLIFIER SECTION

Power Output

60 watts per channel minimum, RMS at 8 ohms from 20Hz to 20,000Hz with no more than 0.3% total harmonic distortion.

Both Channels Driven	65 + 65 watts 8 ohms at 1,000 Hz
	75 + 75 watts 4 ohms at 1,000 Hz
Dynamic Power Output	280 watts 4 ohms
Total Harmonic Distortion	0.3 % at rated power into 8 ohms
	0.05 % at 1 watt into 8 ohms
Intermodulation Distortion	0.3 % at rated power into 8 ohms
(60 Hz : 7 kHz = 4 : 1)	0.1 % at 1 watt into 8 ohms
Power Bandwidth	7 Hz to 50,000 Hz
Damping Factor	45 at 8 ohms
Speaker Impedance	Accept 4 ohms to 16 ohms

PREAMPLIFIER SECTION

Input Sensitivity / Impedance / Signal to Noise Ratio (IHF A Curve)

Phono 1	2.5 mV/ 50 k ohms/ 75 dB
Phono 2	2.5 mV/ 50 k ohms/ 75 dB
AUX	150 mV/ 50 k ohms/ 90 dB
Tape	150 mV/ 50 k ohms/ 90 dB
Mic	1.5 mV/ 50 k ohms/ 65 dB
Maximum Input Level for	
Phono 1	180 mV (rms), T.H.D. 0.1% at 1,000Hz
Output Level / Impedance	
Tape REC (Pin)	150 mV/ 100 ohms
(Din)	30 mV/ 80 k ohms
Frequency Response	
Phono	RIAA standard curve +0.5 dB, -0.5 dB
AUX & Tape	20 Hz to 50,000 Hz +0.5 dB, -1.0 dB
Mic	70 Hz to 20,000 Hz +0 dB, -3.0 dB
Tone Control	
Bass	±8 dB at 100 Hz
Treble	±8 dB at 10,000 Hz
Acoustic/Presence	+6 dB at 800 Hz
	+6 dB at 50 Hz
Loudness Control (-30 dB)	+8 dB at 100 Hz
	+5 dB at 10,000 Hz
Low Filter	-10 dB at 100 Hz
High Filter	-10 dB at 10 kHz

FM TUNER SECTION (IHF)

Usable Sensitivity	9.8 dBf, (1.7 μ V at 75 ohms)
50 dB Quieting Sensitivity	
(Mono)	14.8 dBf, (3.0 μ V at 75 ohms)
(Stereo)	36.6 dBf, (37 μ V at 75 ohms)

Signal to Noise Ratio at 65 dBf

(Mono)	75 dB
(Stereo)	70 dB
Muting Threshold	12 dBf, (2.2 μ V)
T.H. Distortion at 65 dBf	
(Mono)	0.15 %
(Stereo)	0.25 %
Frequency Response	20 Hz to 15,000 Hz +0.5 dB, -1.5 dB
Capture Ratio	1.5 dB
Alternate Channel Selectivity	80 dB
Spurious Response Ratio	85 dB
Image Response Ratio	85 dB
IF Response Ratio (balanced)	100 dB
AM Suppression Ratio	65 dB
Stereo Separation at Wide Band	40 dB at 1,000 Hz
	35 dB at 50 to 10,000Hz
Subcarrier Product Ratio	65 dB
Antenna Impedance	300 ohms balanced & 75 ohms unbalanced
FM Frequency Range	88 MHz to 108 MHz

AM TUNER SECTION

Usable Sensitivity	20 μ V
Signal to Noise Ratio	50 dB
Image Rejection	45 dB
Selectivity	35 dB
IF Rejection	35 dB

GENERAL

Power Requirement	60 Hz 120V (U.S.A. & Canada model) or 50/60 Hz, 110-120/220-240V switchable
Power Consumption	480 watts at full power
Dimension	W20- 5/8" (524mm) H5-29/32" (151mm) D14-3/8" (365mm)
Weight (Net)	35.9 lbs (16.3 kg)

The above specifications may be changed or modified without notice.



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