

# ROTEL

® AM/FM  
STEREO  
RECEIVER

## RX-802

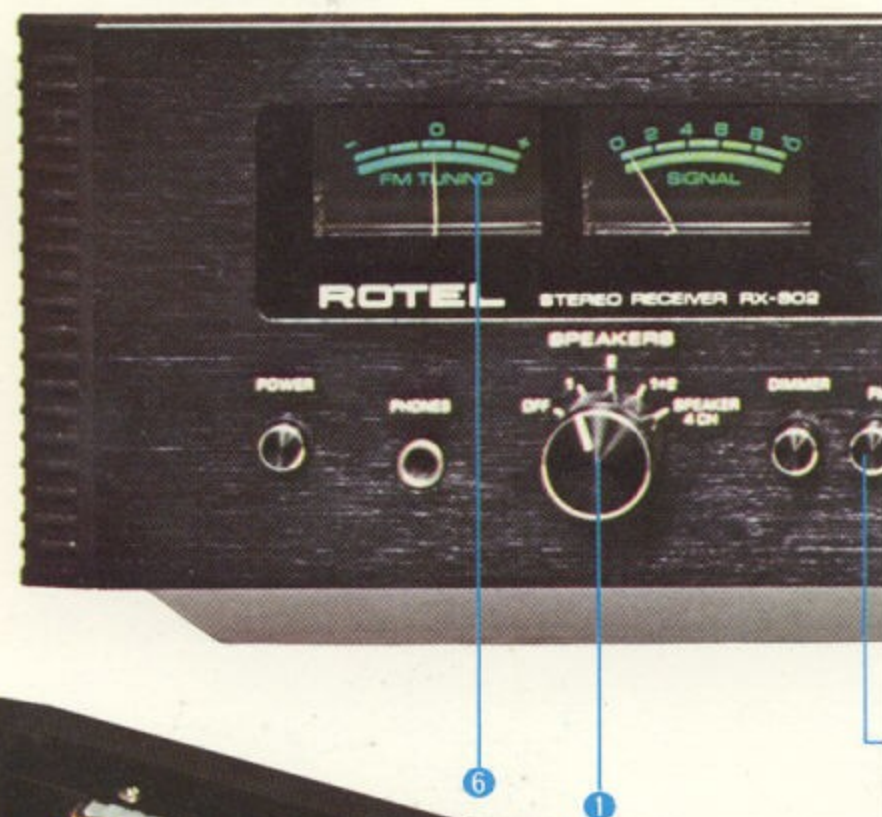
It's not just the sweetest looking receiver on  
the music market—  
It's the sweetest sounding sweetest looking





# WHAT YOUR EYES DON'T NORMALLY SEE IS

## Quality. Uncompromised. RX-802 AM/FM STEREO RECEIVER



We've taken the fine wood-grain cabinet off of the RX-802 to give you a perfect picture of what performance in a high-quality AM/FM stereo receiver looks like. So see for yourself. It's all here. A masterful blend of the very latest circuitry. Low-noise, long-life silicon transistors. Integrated circuits. An AM/FM front end that's out front in sensitivity and performance. A power amplifier section that's—well, we'll let you decide for yourself what it is after hearing the giant 6,800 mfd block capacitors in action. And an advanced NF and IC equalizer amplifier. This and more, all within the good looking RX-802 enclosure. And all there for one reason. To give you the most satisfying experience in stereo dynamics that you've had to date. Inside and out, the RX-802 is not only the sweetest looking receiver on the music market, it's the sweetest sounding sweetest looking.

### THE PERFORMANCE BEGINS HERE

With a high-performance, high-sensitivity FM front end. The RX-802 has dual-gate MOS FET's and a 4-gang linear-frequency tuning capacitor, the latter largely contributes to sensitivity and performance which you will translate directly into musical enjoyment. If you've thought all along that all receivers were basically the same, you'll stop where RX-802 performance begins.

### FM IF AND AM IF SECTIONS

In the FM IF section, 2 high-gain IC's housing 6 differential amplifiers and two linear-phase ceramic filters get together to achieve brilliant selectivity and rejection characteristics. In the AM IF section, a hard working ceramic filter provides equally efficient selectivity. Together with an RF stage in the AM front end, the sum of RX-802 AM features is performance that perks up all ears, no matter how tired.

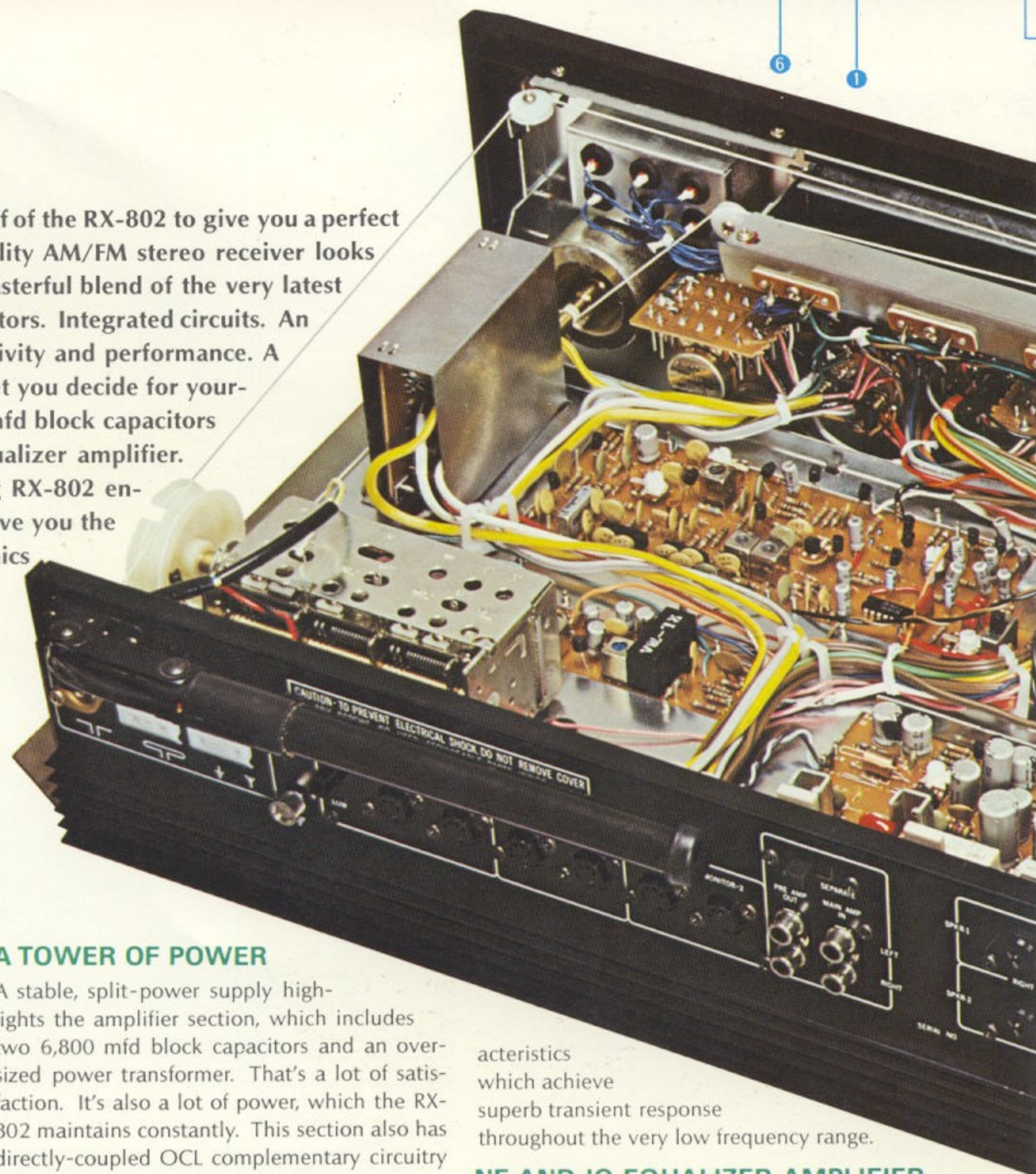
### A TOWER OF POWER

A stable, split-power supply highlights the amplifier section, which includes two 6,800 mfd block capacitors and an oversized power transformer. That's a lot of satisfaction. It's also a lot of power, which the RX-802 maintains constantly. This section also has directly-coupled OCL complementary circuitry to keep the power up and the distortion down, from one end of the audio spectrum to the other—50 watts per channel, min. RMS, both channels driven simultaneously into 8 ohms from 20 to 20,000 Hz with no more than 0.5% total harmonic distortion. And "steady she goes" doesn't only apply to ships. Now it describes the dampening factor and output char-

acteristics which achieve superb transient response throughout the very low frequency range.

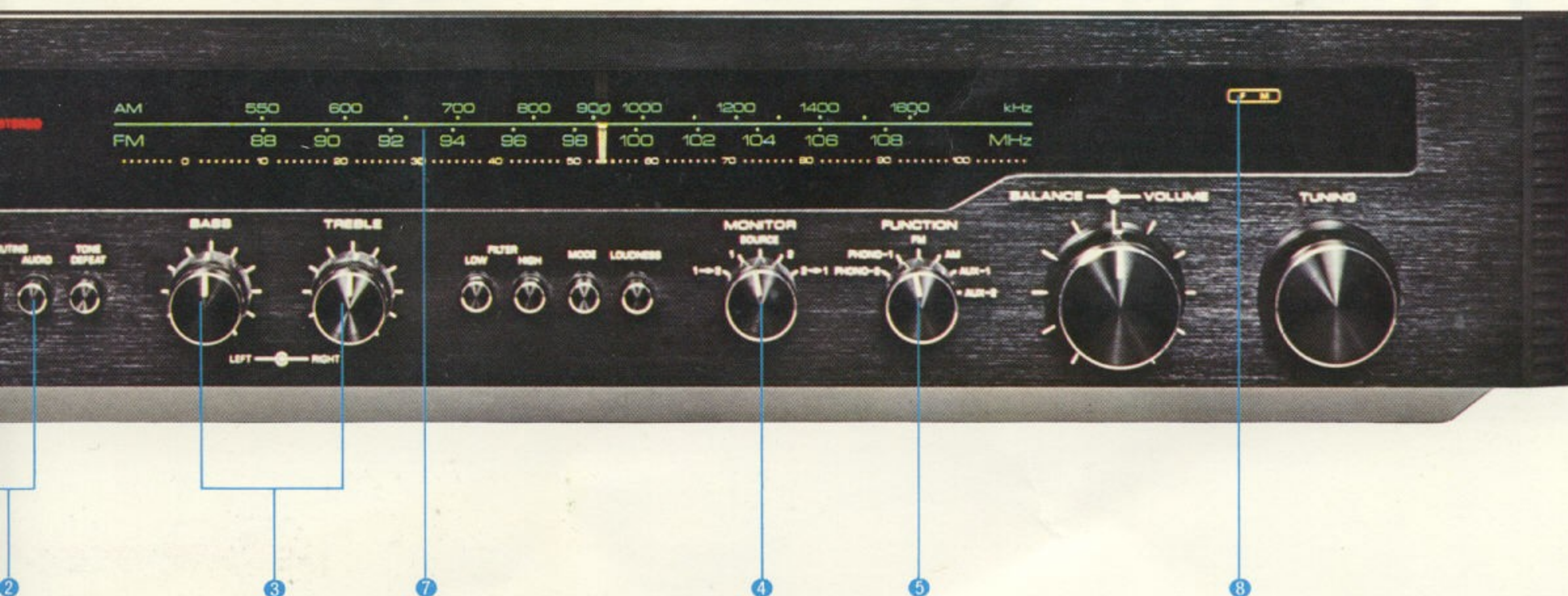
### NF AND IC EQUALIZER AMPLIFIER

Genuinely outstanding RIAA characteristics are achieved through low-distortion, directly coupled NF (Negative Feedback) circuitry combined with high voltage IC. Reproduction is more transparent than ever before. An added bonus is that tone control circuitry benefits from the same directly coupled NF circuitry.

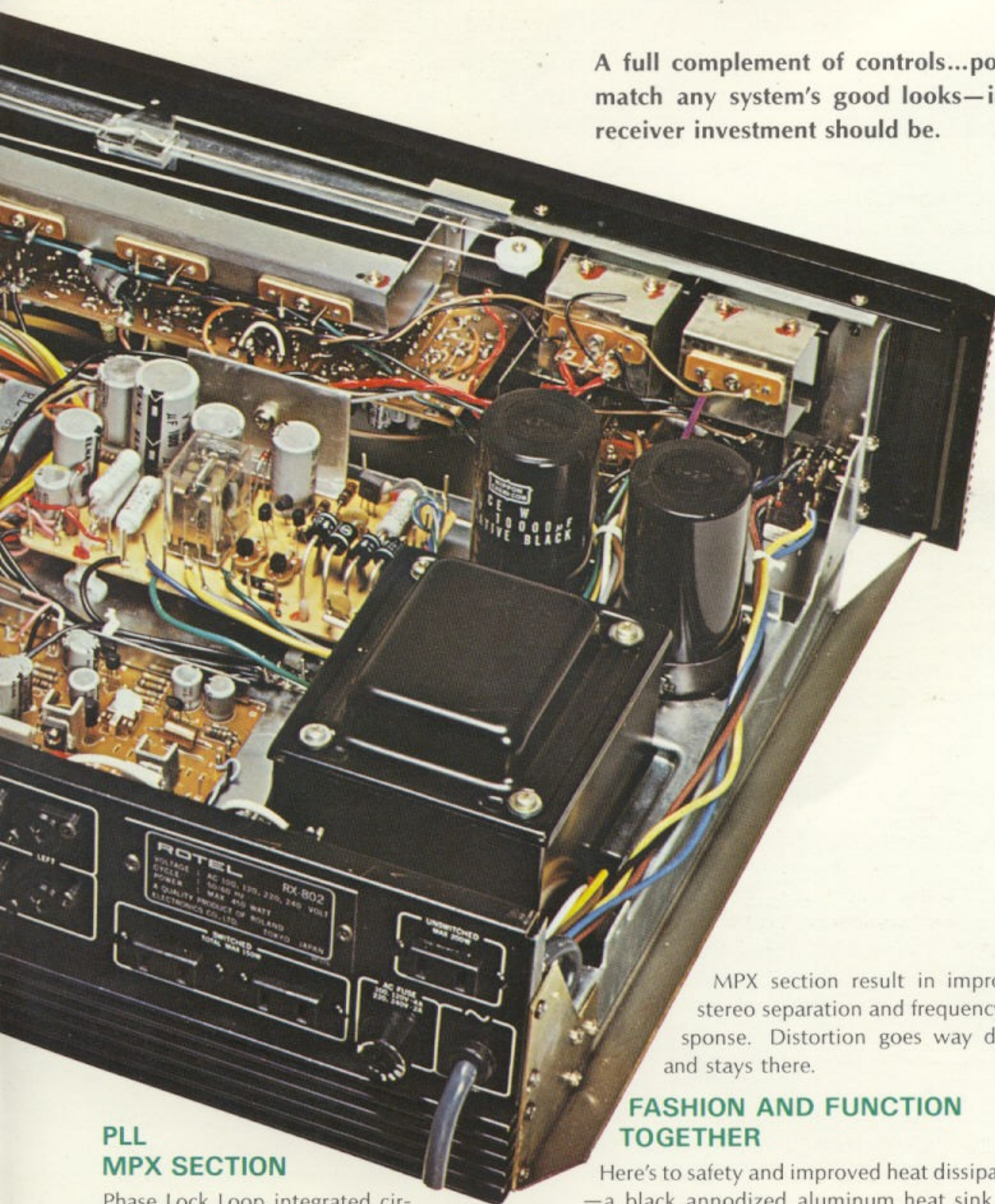




# WHAT'S BEHIND ALL THE QUALITY YOU HEAR



A full complement of controls...power...performance...and a lean, low profile to match any system's good looks—in sum, the RX-802 is everything a solid-value receiver investment should be.



## PLL MPX SECTION

Phase Lock Loop integrated circuitry and other new circuitry innovations in the

MPX section result in improved stereo separation and frequency response. Distortion goes way down and stays there.

## FASHION AND FUNCTION TOGETHER

Here's to safety and improved heat dissipation—a black anodized aluminum heat sink and an aluminum rear panel.

**1 SPEAKER CONTROL...** enables selection of the speakers you want to hear...the main speakers only or the remote pair only—or all together in perfect harmony...whether stereo, simulated but lively 4-channel...or private listening via headphones. Relay-operated speaker protection circuitry is built-in to automatically protect your speaker system against overload.

**2 MUTING SWITCHES...** one mutes annoying interstation noise...the other the volume level for momentary quieting. If this sounds nice in print, wait'll you actually hear it.

**3 TONE CONTROLS...** these are concentric for 'separate' or 'all together' control. Each control has a total of eleven click steps for convenient, accurate setting.

**4 MONITOR CONTROL...** lets you playback...monitor...and dub with two tape recorders. This is a professional feature.

**5 FUNCTION CONTROL...** lets you play programs from PHONO 1, PHONO 2, AM, FM, AUX 1 or AUX 2. Now you're beginning to understand why the sweetest looking receiver on the music market is also the sweetest sounding.

**6 TUNING METERS.....** these are wide range signal strength and precision FM center meters that make tuning super simple, super precise.

**7 DIAL SCALE...** an ultra-wide linear FM dial scale. Tuning is easy, response-to-touch smooth.

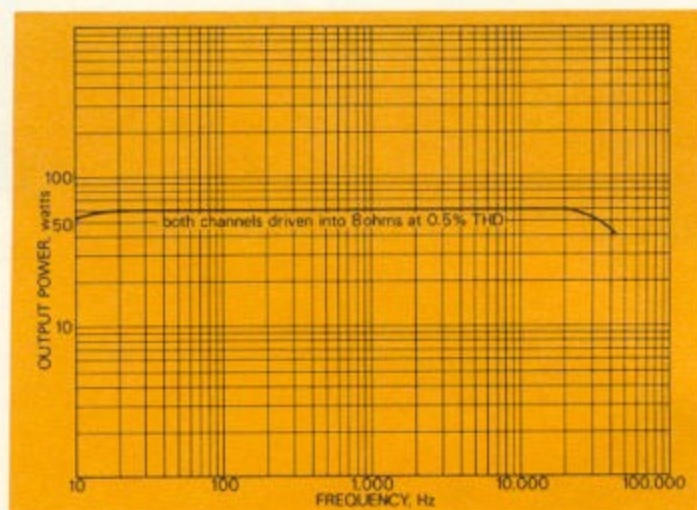
**8 FUNCTION INDICATORS.....** these light-up in clear letters the program source selected. What could be sweeter.



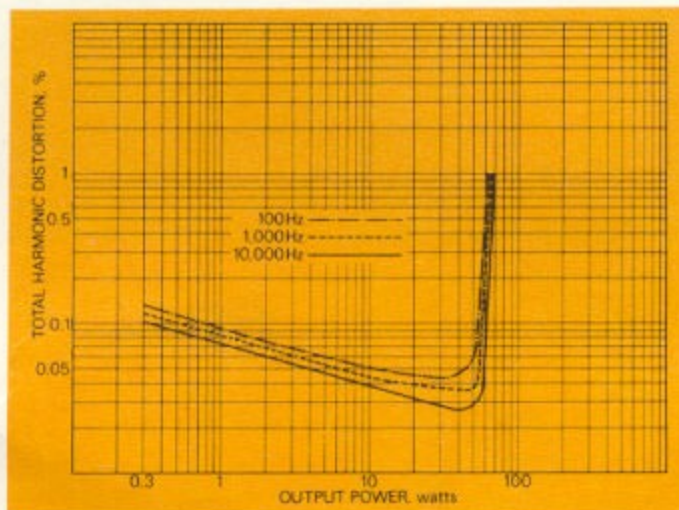
# ROTEL® RX-802

## AM/FM STEREO RECEIVER

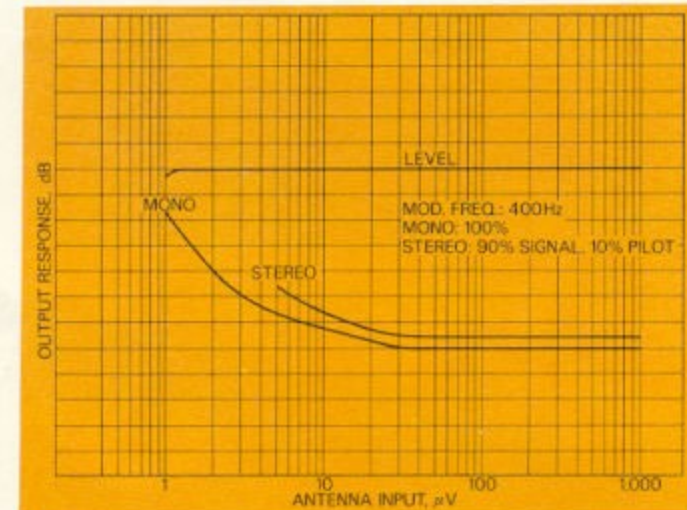
POWER BANDWIDTH



OUTPUT DISTORTION VS OUTPUT POWER



OUTPUT LEVEL & S/N VS FM ANTENNA INPUT



## SPECIFICATIONS

### AMPLIFIER SECTION

Continuous Power Output (min. RMS).....	50 watts per channel, both channels driven into 8 ohms from 20 to 20,000Hz with no more than 0.5% total harmonic distortion.
	60 watts per channel, both channels driven into 8 ohms at 1kHz with no more than 0.5% total harmonic distortion.
Harmonic Distortion .....	less than 0.05% (8 ohms, 1 kHz, 90% rated power)
IM Distortion .....	less than 0.15% (8 ohms, rated power)
Power Bandwidth (IHF).....	5 to 50,000Hz (8 ohms)
Frequency Response .....	10 to 100,000Hz $\pm 3$ dB, 1W/1W
Damping Factor .....	40 (8 ohms, 1 kHz)
Input Sensitivity/ Impedance (rated power) ..	MAIN IN 1000mV/34k ohms TAPE MONITOR 140mV/26k ohms AUX. 1, 2 140mV/26k ohms PHONO 1, 2 2.4mV/40k ohms (or 6.4mV/40k ohms)
Tape Output .....	280mV/1.7k ohms
Phono Overload .....	150mV (1 kHz)
Phono Equalization.....	RIAA S.T.D. $\pm 0.5$ dB
Bass Control .....	$\pm 10$ dB at 100Hz
Treble Control .....	$\pm 10$ dB at 10kHz
Loudness Contour .....	+6 dB/100Hz, +6 dB/10kHz
High Filter .....	12 dB/oct, 10kHz
Low Filter.....	12 dB/oct, 100Hz
Audio Muting .....	-20 dB
Crosstalk .....	50 dB/10kHz

Hum and Noise (S/N) .....	PHONO 65 dB
(continuous power output) TAPE	80 dB
	Residual 0.5mV
Speaker Impedance.....	4 to 16 ohms

### FM TUNER SECTION

Frequency Range .....	88 to 108MHz
Sensitivity (IHF) .....	1.5 microvolts
Signal-to-Noise Ratio .....	70 dB
Harmonic Distortion .....	0.2% (mono); 0.4% (stereo)
Selectivity .....	80 dB $\pm 400$ kHz
Capture Ratio .....	1.0 dB
Stereo Separation .....	40 dB at 100 Hz, 40 dB at 1 kHz, 35 dB at 10 kHz
IF Rejection .....	100 dB
Image Rejection .....	100 dB
Spurious Response Rejection .....	100 dB
SCA Suppression .....	70 dB
AM Suppression .....	55 dB

### AM TUNER SECTION

Frequency Range .....	520 to 1650 kHz
Sensitivity .....	15 microvolts
Selectivity .....	50 dB $\pm 10$ kHz
IF Rejection .....	80 dB
Image Rejection .....	80 dB
Signal-to-Noise Ratio .....	55 dB

### GENERAL

Power Consumption .....	450 W (maximum)
Power Supply .....	AC 100, 120, 220, 240 V 50/60Hz
Dimensions (overall) .....	24" W $\times$ 15" D $\times$ 5-3/8" H
Weight (net).....	13.5 kg/35.2 lbs

Note: Features and specifications subject to change without prior notice.

Quality. Uncompromised.

**ROTEL®**

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