

# Marantz Model 23 AM/FM Stereophonic Tuner



The Model 23 represents a significant advance in Marantz' engineering effort to manufacture a high-quality AM/FM stereo tuner at a moderate price. The quality and performance of the Model 23 are truly outstanding, yet the price puts the Model 23 within reach of the budget-conscious audiophile. Sophisticated features are not compromised — multipath indication, hi blend, and superb quieting characteristics are all carried over from more expensive Marantz designs. The Marantz Model 23 is the perfect quality tuner for the budget-minded stereophile.

## Features:

**Signal Strength and Center Channel/Multipath Meters:** These two meters enable the user to tune in FM broadcasts with absolute precision. This tuning system is superior to any other, except for the oscilloscope tuning offered in the Marantz Model 20. In addition to standard center-channel and signal strength meters (found in some competitive tuners), the Marantz center-channel meter can also be switched to indicate the degree of multipath. The multipath distortion may then be minimized by reorienting the antenna.

**Gyro-Touch Tuning (Patented):** This exclusive Marantz feature is the most sophisticated tuning mechanism ever designed. Station-to-station tuning is smooth and effortless, because the user is actually rotating the mechanism's flywheel. This greatly reduces the number of moving parts of the tuning mechanism, reduces friction and wear, and results in smoother operation.

**Inter-Station Muting.** The inter-station muting circuit quiets the noise between stations while tuning across the FM dial. A rear-panel threshold adjustment is provided as well as a front-panel defeat switch, allowing the owner to vary the amount of muting, or switch the muting circuit out completely.

**Advanced FET and IC Circuitry:** Two FET's and four IC's are used to provide superior and dependable performance with optimum component stability and longevity. The incorporation of integrated circuits also simplifies the manufacturing process. This keeps costs down while ensuring the highest possible quality.

**Hi-Blend:** Hi-blend quiets background noise in marginal FM stereo broadcasts without affecting mid- and low-frequency stereo separation or frequency response.

**Other Features:** The Model 23 is also equipped with a blackout dial panel, silent automatic mono/stereo switching, stereo indicator light, antenna attenuator and a front-panel volume control.

## Specifications:

### FM SECTION:

**I. H. F. Sensitivity.**  
2.4  $\mu$ V or better.

### Quieting Slope:

Better than:  
55 dB @ 5  $\mu$ V  
60 dB @ 10  $\mu$ V  
70 dB @ 50  $\mu$ V

### Stereo Separation:

40 dB @ 1 kHz

### Frequency Response:

$\pm$  1 dB 20 Hz to 15 kHz

### Capture Ratio:

2.5 dB

### Total Harmonic Distortion:

*Mono: 0.3% Stereo: 0.5%*

### Total Spurious Rejection:

Better than 80 dB

### Image Rejection:

Better than 78 dB

### 19 and 38 kHz Suppression:

Better than 58 dB

### 67 kHz Suppression (S. C. A.):

Better than 60 dB

### A. M. Suppression:

Better than 50 dB

### I. F. Rejection:

Better than 80 dB

### Selectivity:

Alternate carrier 80 dB

### Hum and Noise:

Better than 70 dB below 100% modulation

### Antenna Impedance:

300 ohm balanced  
75 ohm unbalanced

### A. M. Section:

**I. H. F. Sensitivity:**  
Better than 11  $\mu$ V

### Image Rejection:

Better than 75 dB

### I. F. Rejection:

Better than 70 dB

### Antenna:

Built in ferrite-bar antenna  
Terminals for external antenna

### GENERAL SPECIFICATIONS:

2 F. E. T.'S

4 I. C.'S

### Power Requirements:

117 volts AC, 25 watts  
50/60 Hz,

### Dimensions:

15 $\frac{3}{8}$ " wide x 5 $\frac{3}{4}$ " high x  
12 $\frac{1}{2}$ " deep

Unit weight 16 lbs.

Shipping weight 20 lbs.

### Optional Accessory.

WC-1 walnut cabinet.

## MARANTZ WARRANTY

The makers of Marantz fine audio equipment demonstrate their confidence in their product by providing a warranty far better than industry standards. The owner of Marantz equipment knows that the performance and reliability he buys will be his for years to come.

This instrument is warranted under the conditions outlined below to its original, registered owner, provided the purchase was made from a franchised Marantz dealer and that the Warranty Registration Card is submitted to Marantz Company within ten days from date of purchase.

This instrument is warranted to remain free from operating defects for three years from the date of purchase. In the event that service is required, all necessary parts and labor will be furnished free of charge during this period.

This warranty is void if the serial number has been altered, removed or defaced. The warranty is void if the instrument is altered, misused, mishandled, maladjusted—in any way that Marantz believes has affected the stability or reliability of

the instrument—or is serviced by any parties not authorized by the Marantz Company. This warranty shall not apply if the instrument has not been connected or operated in accordance with the instructions furnished by Marantz. This warranty does not include any transportation costs incurred because of the need for service, unless a special agreement is provided in writing by the Marantz National Service Manager. Ordinary periodic check-ups are not included in this warranty.

Marantz reserves the right to make changes in design and improve upon its products without any obligation to install these improvements in any of its products previously manufactured.

THERE ARE NO IMPLIED WARRANTIES OF MERCHANTABILITY OR SUITABILITY FOR PURPOSE NOR ARE THERE ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, WHICH EXTEND BEYOND THE FACE HEREOF.

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