

McIntosh

McIntosh
MR 74

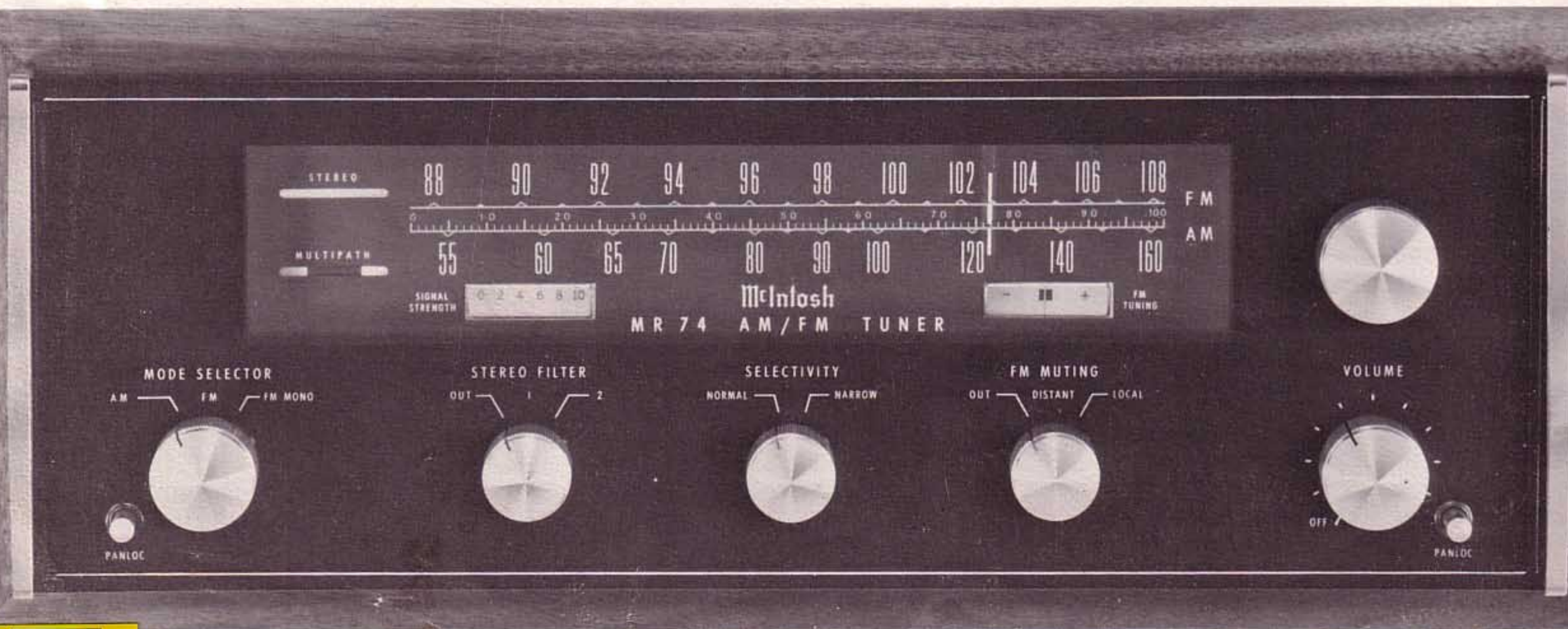
The McIntosh MR 74 AM-FM/FM Stereo Tuner is a superb instrument with useful performance characteristics. It incorporates unique front end IF filter mixer and provides for two position selectivity. When you connect this fine instrument you will discover more FM stations with good quality than you have ever heard before. The AM portion represents the most advanced techniques that bring about a desirable rediscovery of AM. The McIntosh MR 74 is used with other McIntosh products such as preamp - power amplifier or with individual preamplifier and power amplifier.

AM FM / FM STEREO TUNER

- Multiple 'selectivity' switchable from the front panel. An elegant solution to a tough problem.
- Linear Phase (constant delay) IF amplifier for low distortion at even high selectivity and low distortion.
- Staggered tuning condenser elements to improve RF front end behavior, less interstage coupling, lower spurious effects, higher Q circuits.
- Tremendous accommodation of strong input signals - up to 10 volts - overcoming one of the most aggravating limitations of tuners that occurs when very strong signals are present.
- Highest spurious rejection 90 dB (IHF) and highest image rejection 95 dB (88 to 108 MHz). This means you receive the stations at the right place on the dial only. You don't receive the same stations or some mixture as you tune across the dial.
- For greater spurious rejection the AM-RF amplifier circuit includes a three section variable tuning capacitor in the metal enclosed shielded RF module which also houses the FM-RF front end. The AM circuit has constant sensitivity, constant selectivity, high image rejection across the complete AM band. This circuit design achieves equal sensitivity even down at the low end of the band. Spurious, image, and intermediate frequency rejection are

all superior. The McIntosh circuit is unique in a superheterodyne AM receiver.

- A high-quality loopstick antenna is provided. It can be rotated for maximum performance, optimum signal rejection or minimum interference. Each loopstick is individually tuned for optimum performance. After tuning the loopstick is then sealed. Custom matching of the loopstick to the AM-RF front end maximizes the performance of the loopstick antenna.
- Ultra Sonic 'muting' provides smooth inter channel FM noise suppression.
- Has complete connection to McIntosh Maximum Performance Indicator to maximize your listening pleasure.
- McIntosh developed a special detecting circuit used in the multiplex section. An advantage of this circuit is the elimination of the critical adjustments necessary with commonly used matrixing circuits. The circuit detects the L - R sidebands, then automatically matrixes the recovered information with the L + R carrier signal. This yields the left and right program output with maximum separation.
- See the performance limits on the back page for many other outstanding characteristics of these remarkable instruments.



Ceretti

SHOWN IN OPTIONAL WALNUT VENEER CABINET

Performance Limits: MR 74 Stereo Tuner

Performance Limits are the maximum deviation from perfection permitted for a McIntosh instrument. We promise that the MR 74 you buy must be capable of performance at or exceeding these limits or you get your money back. McIntosh is the only manufacturer that makes this guarantee.

FM

SENSITIVITY: 2.5 μV at 100% modulation (± 75 kHz deviation) for 3% total noise and harmonic distortion

SIGNAL TO NOISE RATIO: 70 dB below 100% modulation

HARMONIC DISTORTION: MONO - 0.3% at 100% modulation ± 75 kHz deviation; STEREO - 0.5% at 100% modulation

DRIFT: 25,000 Hz for the first two minutes; thereafter 5,000 Hz at ambient temperatures

FREQUENCY RESPONSE: ± 1 dB 20 Hz to 15,000 Hz with standard de-emphasis (75 μs) and 19,000 Hz pilot filter

CAPTURE RATIO: 1.5 dB minimum

SELECTIVITY:

Switch Setting:	NORMAL	NARROW
Adjacent Channel:	6 dB	15 dB
Alternate Channel:	58 dB	88 dB

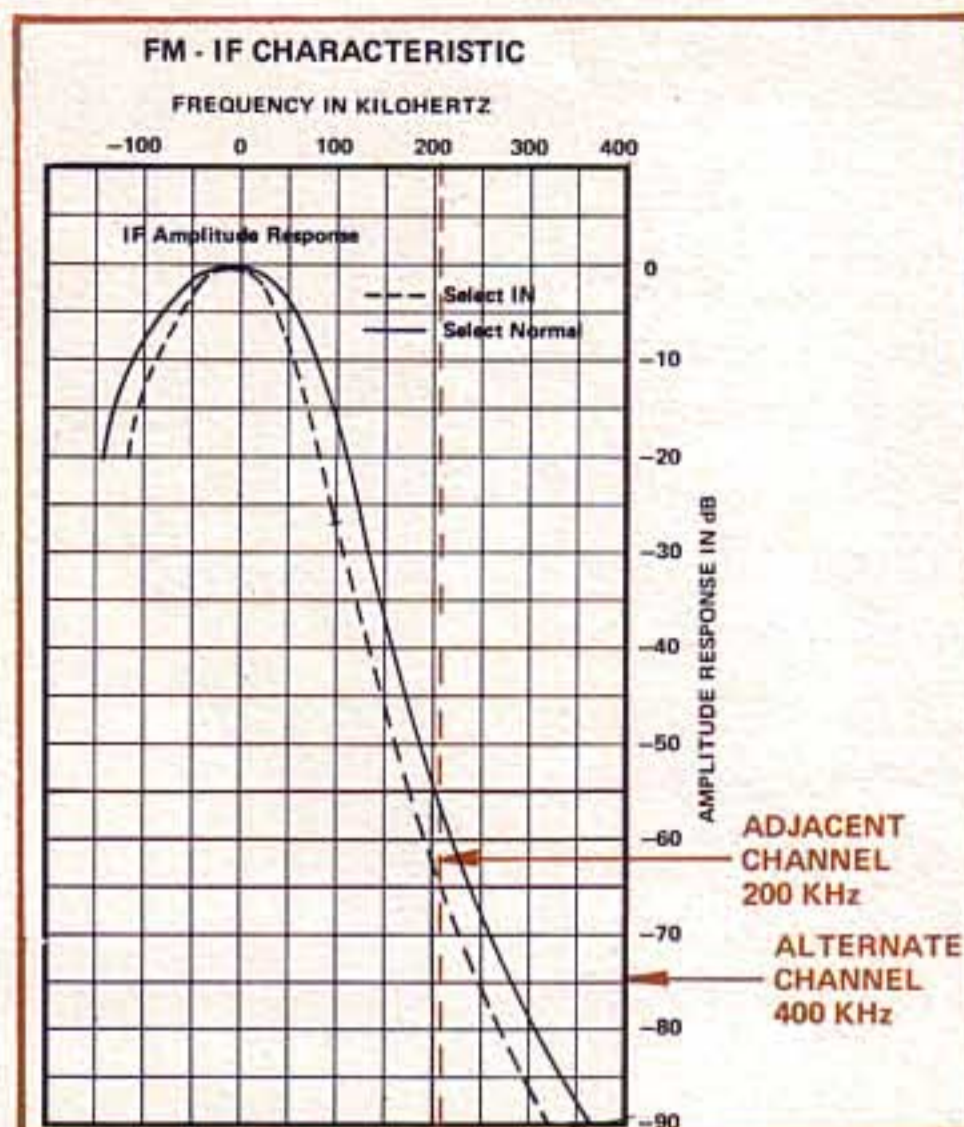
SPURIOUS REJECTION: 90 dB

IMAGE REJECTION: 95 dB, 88 to 108 MHz (IHF)

SCA FILTER: 50 dB down from 67 kHz to 74 kHz; 275 dB per octave slope

STEREO SEPARATION: 35 dB at 1,000 Hz

STEREO FILTER: 10 dB noise reduction in Position 1; 20 dB noise reduction in Position 2



The MR 74 has a switch to change the selectivity of either the FM or AM intermediate frequency circuits. In AM, with the selectivity switch in the narrow position, excellent distant "weak" station performance occurs. In FM with the switch in the narrow selectivity position remarkable selectivity occurs. The response to a carrier 200 kHz removed from the "tuned-in" channel is 65 dB down. This means that a carrier on the adjacent frequency would have to have 3.16 million times the effective power of the wanted station to equal it. Even in the normal position there would have to be 55 dB or 316,000 times the effective power of the tuned signal to equal it.

AM

SENSITIVITY: 75 μV (external ant.)

SIGNAL TO NOISE RATIO: 55 dB at 100% modulation; 45 dB minimum

HARMONIC DISTORTION: Does not exceed 1% at 30% modulation

SELECTIVITY: Switch Setting: NORMAL NARROW

Adjacent Channel: 35 dB 45 dB

IMAGE REJECTION: 65 dB minimum 540 kHz - 1600 kHz

FREQUENCY RESPONSE: 3500 Hz - 6 dB down; NARROW: 2100 Hz - 6 dB.

All tuner performance limits were measured with SELECTIVITY at NORMAL, unless otherwise stated.

GENERAL

POWER REQUIREMENTS: 120 volts, 50/60 Hz; 30 watts

SEMICONDUCTOR COMPLEMENT: 5 FET's, 17 transistors, 2 IC's, 28 diodes, 1 indicator tube

MECHANICAL

SIZE: Front panel: 16 inches wide (40.64cm) by 5-7/16 inches high (13.81cm); Chassis: 15 inches wide (38.1cm) by 13 inches deep (33.02cm), including PANLOC shelf and back panel connectors; Knob Clearance: 1-1/2 inches (3.81cm) in front of mounting panel

FINISH: Front Panel: Anodized gold and black with special gold/teal panel nomenclature illumination; Chassis: Chrome and black

MOUNTING: McIntosh developed professional PANLOC

WEIGHT: 25 pounds (11.34 kg) net; 37 pounds (16.78 kg) in shipping carton

Why You Should Own McIntosh

- McIntosh instruments are designed and manufactured for long life.
- McIntosh instruments have always been designed for long life with low maintenance costs and high quality performance. McIntosh instruments have been and are the LABORATORY STANDARD for the world. Until 1949 the performance requirements for a McIntosh had long been an engineering dream. They became a reality with the introduction of the first McIntosh amplifier. Through all these years McIntosh has produced instruments that have exceptionally long life. Regardless of age, most McIntosh instruments are still in use today. Amplifier clinics held all over North America have shown that most of the McIntosh instruments ever manufactured are still in service today and still meet or exceed original exacting requirements for performance that were required of them when new.
- Used McIntosh instruments enjoy the highest resale value in this field. Retailers report that customers are constantly searching for used McIntosh instruments. A McIntosh does not remain on the "Used" display long. You'll get more when you trade-in your McIntosh assuring you of maximum return on your investment.
- McIntosh dedication, not only to improvements, but also to fundamentals, has justified many patents on refinements as well as basic circuit structures.
- The size of the McIntosh investment in professional testing instruments bears eloquent testimony to the commitment to acquire knowledge for the benefit of our customers. On a percentage basis McIntosh probably invests more of its sales dollars in testing facilities than anyone else in a like business. As new testing instruments are produced that update the McIntosh ability to know, McIntosh invests in them . . . wave form analyzers—real time analyzers—low distortion signal generators, etc. Only through this impressive investment, through continuous testing and research, through product analysis, and endless measurement can McIntosh promise and deliver to you reliability, long life, performance, highest value, and freedom from service.
- Since its beginning in 1949, McIntosh Laboratory has had the same ownership and management. McIntosh is the only company in this industry that has had this kind of history. McIntosh has been and is still dedicated to the best possible value.
- Doesn't it make good sense to deal with a company that wants to do as much for you as it possibly can?

Franchised Dealer:

McIntosh

LABORATORY INC.

2 Chambers St., Binghamton, N.Y. 13903

Phone area 607 723-3512