

# All the things you have wanted from McIntosh ...are now possible in the **MAC 1700**

Research, experimentation, development, and rigorous component testing permit the unprecedented McIntosh protection policy. You can't pay for the repair of your MAC 1700 for TWO FULL YEARS. This confidence is developed from the superior circuitry and higher quality longer life components used in the MAC 1700. The output transistors have been carefully selected for their high power dissipation capability, wide frequency response, and large "safe operating area." A McIntosh developed "power monitor" circuit (patent applied for) assures reliability; This exclusive power monitoring circuit prevents failure of the output transistors in the event of accidental open circuit, short circuit, or incorrect load impedance. In the event of excessive heating the MAC 1700 will automatically turn itself off. This further protection is achieved by temperature monitoring of the extra large heat sinks.

Stereo records sound better on a McIntosh. McIntosh famous flexibility has been "designed in." All desirable control facilities have been incorporated. Your MAC 1700 won't go out of date because of a lack of flexibility. The preamplifier has 16 silicon

planar transistors. High thermal stability, low noise and superior high frequency response make the added cost of silicon planar transistors worth the investment.

Low distortion and noise free reception from distant stations are the expected from a McIntosh. High sensitivity is the result of meticulous engineering and manufacturing superiority.

Outstanding stereo tapes are made with the MAC 1700. The multiplex decoder and SCA filters guarantee the absolute best in FM stereo.

Two solid state 40 watt power amplifiers are the heart of the stereo instrument. Engineering innovation has again shown the way to McIntosh leadership in performance and protection. The MAC 1700 is "fail safe" regardless of the speaker load.

McIntosh believes in maximum return of your investment for a longer period of time. The sophisticated beauty and the conservative appearance assures you that the styling is not dated.

## *Buy the Mac 1700 and Enjoy the Best!*



\$699.00 Cabinet \$29.00



## MAC 1700 PERFORMANCE LIMITS

### PERFORMANCE GUARANTEE

*Performance Limits* are the maximum deviation from perfection permitted for a McIntosh instrument. We promise you that the MAC 1700 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 TUNER SECTION:

**USEABLE SENSITIVITY:** 2.5  $\mu$ V at 100% Modulation (I.H.F.)

**SIGNAL TO NOISE AND HUM RATIO:** 65 dB

**HARMONIC DISTORTION:** Mono, 5%. Stereo, 8%.

**DRIFT:** 25 kHz

**FREQUENCY RESPONSE:** Flat from 20 Hz to 20 kHz with standard 75 micro second de-emphasis and 19 kHz pilot frequency filter.

**CAPTURE RATIO:** 2.0 dB

**IMAGE REJECTION:** 60 dB

**STEREO MULTIPLEX SEPARATION:** 30 dB at 1 kHz

### AMPLIFIER SECTION:

#### POWER OUTPUT:

40 watts RMS, continuous power per channel both channels operating into 4 ohms or 8 ohms

30 watts RMS, continuous power per channel both channels operating into 16 ohms

**HARMONIC DISTORTION:** 0.25% at rated power output from 30 Hz to 20 kHz, both channels operating

**INTERMODULATION DISTORTION:** 0.25% for any combination of frequencies from 30 Hz to 20 kHz if instantaneous peak power is 80 watts per channel or less into 4 or 8 ohm loads and 60 watts per channel or less into 16 ohms loads, both channels operating

#### FREQUENCY RANGE:

At Rated Output:

$\pm$  0.5 dB, 20 Hz through 20 kHz

At Reduced Output:

+ 0, - 3 dB, 10 Hz through 80 kHz

**DAMPING:** greater than 100

**INTERNAL IMPEDANCE:** 0.04 ohms

**INPUT SENSITIVITY:** Auxiliary, Tape, Tuner, and Tape Monitor; 300 mV

**INPUT IMPEDANCE:** Auxiliary, Tape, Tuner and Tape Monitor, 250,000 ohms

**PHONO 1 and PHONO 2:** 2.4 mV 47,000 ohms

**TAPE HEAD:** 2.4 mV 500,000 ohms

#### TOTAL NOISE (including Power Amplifier):

High level inputs: 75 dB below rated output

Low level inputs: 76 dB below 10 mV input; weighted; equivalent to less than 1.5 microvolts at input

**POWER AMPLIFIER NOISE:** 90 dB below rated output

**TAPE OUTPUT:** from tuner-1.5 volts, from low level inputs 300 mV at rated sensitivity, 1.3 volts with 10 mV input from Phono

**BASS CONTROLS:**  $\pm$  18 dB at 20 Hz, friction clutch for independent adjustment of each channel

**TREBLE CONTROLS:**  $\pm$  18 dB at 20 kHz, friction clutch for independent adjustment of each channel

**TAPE MONITOR SWITCH:** normal or tape monitor, indicator lights in monitor position

**FILTER:** Flat, or 5 kHz cutoff and 60 Hz cutoff, 12 dB per octave

**LOUDNESS SWITCH:** normal or compensated

**HEADPHONE JACK:** for low impedance stereo headphones

**INPUT SELECTOR:** 6 positions: AUX, TAPE, FM AUTO, PHONO 1, PHONO 2, TAPE HD.

**MODE SELECTOR:** Mono-stereo

#### SEMICONDUCTOR COMPLEMENT:

Preamplifier 16 silicon Transistors

Power Amplifier 18 Silicon Transistors 12 Diodes

#### FM TUNER:

8 Tubes, 4 Transistors, 10 diodes Power Supply, 8 Rectifiers, 1 Zener diode, 1 Transistor

**POWER REQUIREMENTS:** 117 volts, AC, 50/60 Hz, 70-270 watts

### MECHANICAL SPECIFICATIONS:

**SIZE:** front panel, 16 inches wide by 5½ inches high; chassis, 15 inches wide by 5-1/8 inches high by 14½ inches deep, including connectors. Clearance in front of mounting panel including knobs, 1½ inches

**WEIGHT:** 34 pounds net, 47 pounds in shipping carton

**FINISH:** front panel, anodized gold and black

## McIntosh SPECIAL FEATURES

Automatic stereo switching • Flywheel tuning for best of operation and precise tuning • D'Arsonval tuning meter for accurate center of channel tuning • Muting IF injected circuit with at least 50 dB quieting between stations • Four states of IF amplification, with AGC used to insure that limiting occurs only in the limiter stages • Two limiter stages used for exceptional capture ratio and smooth muting operation • Filter to suppress 19 kHz and 38 kHz signal components at least 40 dB below program and to suppress 67 kHz by 60 dB for superior whistle-free recording • Noise rejecting logic circuit used to activate MPX stereo light • Automatic switching on 19 kHz stereo pilot signal only • Antenna inputs for 300 ohm balanced (for twinlead) and 75 ohm unbalanced (for coaxial cable)

### McIntosh Audio offers a free 2 Year Factory Service Contract

This means you can't pay for the repair of your MAC 1700 for TWO FULL YEARS. Transportation to and from the service agency is your only expense.