

7-68

from

McIntosh

the

MAC

1700

80 WATT

**SOLID STATE
STEREO RECEIVER**

PERFORMANCE • RELIABILITY • APPEARANCE

MAXIMUM VALUE FROM YOUR INVESTMENT

LONG TERM TROUBLE-FREE PROTECTION

From the laboratory at McIntosh comes a solid state receiver that establishes a new standard of performance. All other receivers will now be compared to the outstanding superiority of the MAC 1700.

All the things you have wanted from McIntosh..

Eight years of diligent engineering and development have produced the outstanding performance that is expected from a McIntosh instrument. From the smooth, backlash free tuning mechanism to the superior distortion-free, full 80 watt stereo power output the MAC 1700 is engineering perfection.

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. 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 Your MAC 1700 won't go out of date because of a lack of flexibility.

When McIntosh introduced its first tuner a milestone in engineering and performance was established. The MAC 1700 tuner section proudly carries on that tradition.

High sensitivity with low distortion and noise free reception from distant stations are the expected from a McIntosh. 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. You get a full 80 watts of McIntosh power in stereo. 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.**

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." They are mounted on large oversized heat sinks. 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. McIntosh engineers have developed even further protection in the MAC 1700. In the event of excessive heating from improper impedance matching or inadequate ventilation the MAC 1700 will automatically turn itself off. This further protection is achieved by temperature monitoring in the extra large heat sinks.

McIntosh believes in maximum return on 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!



are now possible in the **MAC 1700**



MAC 1700 \$599.00
Cabinet \$ 29.00

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 50db quieting between stations • Nu-vistor RF amplifier, Nu-vistor mixer • Four states of IF amplification, with AGC used to insure that limiting occurs only in the limited stages • Two limiter stages used for exceptional capture ratio and smooth muting operation • Multiplex filter and SCA filter, to suppress 19 kHz and 38 kHz signal components at least 40db below program and to suppress 67 kHz SCA by 60db for superior, whistle-free tape recording • Noise rejecting logic circuit used to activate MPX stereo light and automatic stereo 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 Company offers a free
TWO 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 are the only limitations.



SPECIFICATIONS

FM TUNER SECTION:

USEABLE SENSITIVITY: Less than 2.5 μ v at 100% Modulation (I.H.F.)

SIGNAL TO NOISE AND HUM RATIO: 65db

HARMONIC DISTORTION: Mono, less than .5%. Stereo, less than .8%

DRIFT: less than 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: Better than 2.0 db

IMAGE REJECTION: Better than 60 db

STEREO MULTIPLEX SEPARATION: Better than 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

80 watts RMS, continuous power monophonic into 4 ohms or 8 ohms

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

60 watts RMS, continuous monophonic into 16 ohms

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

INTERMODULATION DISTORTION: Less than 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: less than 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: 75db below rated output

Low level inputs: 76db 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 other 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, 12 db per octave 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 Transistors

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

MECHANICAL SPECIFICATIONS:

SIZE: front panel, 16 inches wide by 5 $\frac{1}{2}$ inches high; chassis, 15 inches wide by 5 $\frac{1}{8}$ inches high by 14 $\frac{1}{2}$ inches deep, including connectors. Clearance in front of mounting panel including knobs, 1 $\frac{1}{2}$ inches

WEIGHT: 34 pounds net, 47 pounds in shipping carton

FINISH: front panel, anodized gold and black

FRANCHISED DEALER

MCINTOSH AUDIO COMPANY

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

Phone area 607 723-3512

PT 038-199

Made in U.S.A.