

# McIntosh

**BEST PERFORMANCE  
GREATEST MUSICAL SATISFACTION  
LONGEST PROTECTION  
HIGHEST RELIABILITY  
RIGOROUS QUALITY CONTROL  
METICULOUS MANUFACTURE  
PAINSTAKING ENGINEERING  
LONG LIFE STYLING  
HIGHEST VALUE AT TRADE TIME**

**McINTOSH LABORATORY INC., 2 CHAMBERS STREET, BINGHAMTON, NEW YORK 13903**

**Ceretti**

McIntosh Laboratory has great belief in its engineering, product development, manufacturing and quality control. To offer you strong evidence of this confidence each McIntosh instrument is sold with the opportunity to obtain a FREE THREE YEAR SERVICE CONTRACT. During the first three years you own a McIntosh instrument you can't spend one dime for service. McIntosh guarantees parts and McIntosh guarantees labor. It costs you nothing. The extended life of a McIntosh, the conservative ratings, and the sophisticated appearance make a McIntosh Instrument a greater value when you are ready to trade. Step up to McIntosh now.

042-262

## McIntosh

### YEAR FACTORY SERVICE CONTRACT



BECAUSE McINTOSH MANUFACTURES THE BEST ELECTRONIC MUSIC REPRODUCING INSTRUMENTS, AND BECAUSE McINTOSH INSTRUMENTS ARE DESIGNED TO HAVE LONG, TROUBLE FREE LIFE, AND BECAUSE McINTOSH WANTS TO ASSURE YOU THAT YOU OWN THE FINEST INSTRUMENT MADE,

**McINTOSH LABORATORY ISSUES THIS THREE YEAR CONTRACT TO:**

Name \_\_\_\_\_

Street \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

MODEL NO. \_\_\_\_\_ SERIAL NO. \_\_\_\_\_

If the above becomes defective through normal use at any time during the term of this contract, McIntosh at its factory or through one of its authorized service agencies will repair the defect without charge for parts or labor.

**THE LIMITATIONS ON THIS CONTRACT ARE:**

1. This agreement is given to the original purchaser only and is not transferable.
2. The application for the contract must be filled out completely.
3. The 3 YEAR SERVICE CONTRACT is only given to purchasers who live in the United States or Canada.
4. This agreement is given only if the equipment is purchased from a franchised McIntosh dealer.
5. To receive free service, the contract must be presented to the factory authorized service agency when the equipment is presented for repair.
6. If the instrument has been modified or damaged by unauthorized repair the contract will be cancelled.
7. Transportation charges to and from the service agency are excluded.

**McIntosh** LABORATORY INC. 2 Chambers Street, Binghamton, New York 13903

Tel. 607-723-3512

# The McIntosh family of fine instruments

## PREAMPLIFIERS



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## TUNERS



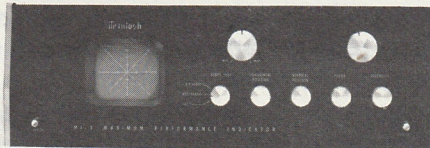
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## PRE-AMPLIFIER—POWER AMPLIFIER



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# C 26 TOTAL PERFORMANCE PREAMPLIFIER with McIntOSH Solid State Design.

Performance, unlimited performance is a design requirement at McIntosh. The lower the distortion the higher the performance. A typical wave form analysis of the C 26 output shows at 2.5 volts the output is 99.95% a perfect reproduction of the input wave, 20 Hz through 20,000 Hz!

Performance is important to your listening pleasure. With McIntosh you are assured of highest performance because McIntosh *guarantees performance*. Your C 26 *must* be capable of meeting its advertised specifications or your purchase price will be refunded. McIntosh promises performance and delivers performance.

Long life is a design requirement at McIntosh. Exhaustive testing and evaluation of each component part give your C 26 the best performance for the best value. As an example: the front panel is constructed of materials that are nearly indestructible! The combination of anodized aluminum and glass is impervious to attacks by acids and oils in the skin or adverse atmospheric conditions. The subtle beauty of the C 26 will remain unblemished year, after year, after year. This attention to detail increases the value of a McIntosh at trade in time.

Flexibility is a design requirement at McIntosh. Careful attention to customer needs, attention to changes in customer use, and constant experimentation in new methods make the McIntosh C 26 the most useable "customer needs" preamplifier.

Control of remote loudspeaker and main system loudspeakers from the preamplifier is a McIntosh innovation.

With the C 26 you can record on one or two tape

recorders, monitor either one or record from one tape recorder to another!

A front panel headphone jack for low impedance headphones allows the enjoyment of programs in total privacy.

Stepped tone controls, separate in each channel permit the accurate repeatability of settings for any program source. The McIntosh developed concentric switches give maximum flexibility in each channel without unnecessary clutter and complication of the attractive front panel.

Continuously variable loudness compensation allows the exact amount of compensation to suit your taste.

Add high frequency and low frequency filters, a six position input selector, 7 position mode selector, center channel level control, phase control and a balance control that does not affect the total loudness in the listening room yet adjusts for proper room balance and you have the useful flexibility McIntosh has designed in the C 26.

When these values are added to the complete protection from all service cost for three full years, you know why the McIntosh C 26 is the best value in a solid state preamplifier, anywhere. Only McIntosh offers a free THREE YEAR SERVICE CONTRACT with each piece of equipment! You can't pay us to service your C 26 for the first three years you own it. Both parts and labor are included in the contract.

Performance, flexibility, long life, customer protection and satisfaction are the design requirements at McIntosh.



\$349.00 Cabinet \$29.00

# McIntosh C 26

## PREAMPLIFIER

## SPECIFICATIONS

### FREQUENCY RESPONSE

+0 - 0.5 dB 20 Hz to 20,000 Hz

DISTORTION: Less than 0.1% at 2.5 volts, 20 Hz to 20,000 Hz

### INPUT SENSITIVITY & IMPEDANCE:

PHONO 1 and PHONO 2—2 millivolts at 47,000 ohms for 2.5 volts output

AUX, TAPE 1, TAPE 2, TUNER—.25 volts at 250,000 ohms for 2.5 volts output

HUM AND NOISE: PHONO 1 and PHONO 2, 74 dB below 10 millivolt input; equivalent to less than 2 microvolts at the input terminals

AUX, TAPE 1, TAPE 2, TUNER—85 dB below rated output

### OUTPUT:

MAIN: 2.5 volts with rated input. Up to 10 volts can be developed without distortion

TAPE: .25 volts with rated input. Phono input signal of 10 millivolts produces 1.2 volts output

CENTER CHANNEL (L+R): 2.5 volts. A level control adjusts output from -6 dB to +6 dB with respect to MAIN OUTPUT

### OUTPUT IMPEDANCE:

MAIN: 2,000 ohms, designed to operate into 47,000 ohms or more  
TAPE OUTPUT: 200 ohms, designed to operate into 47,000 ohms or more

LEFT PLUS RIGHT: 2,000 ohms, designed to operate into 47,000 ohms or more

### FACILITIES

BASS CONTROLS: 11 position concentric switches, separate controls in each channel, -20 dB to

+16 dB at 20 Hz

TREBLE CONTROLS: 11 position concentric switches, separate controls on each channel  $\pm 20$  dB at 20,000 Hz

LOUDNESS: Flat response, or continuously variable loudness equalization as volume level is reduced

BALANCE: When program material is out of balance, rotation of this control returns the program to natural balance

VOLUME CONTROL: Precision "Tracked" at all listening levels for true stereo balance. The AC on-off switch is coupled with the volume control

TAPE MONITOR SWITCH: Two switches, two positions mechanically interlocked. Two tape recorders can be monitored by pressing either TAPE 1 push button or TAPE 2 push button

LF FILTER: Flat or roll off below 50 Hz, 6 dB per octave, down 12 dB at 20 Hz

HF FILTER: Flat or roll off above 5 kHz, 6 dB per octave, down 12 dB at 20,000 Hz

### SPEAKER SWITCH:

MAIN: Switch the main loudspeakers on or off without affecting the performance of remote speakers

REMOTE: Switch the remote loudspeakers on or off without affecting the performance of main speakers

INPUT SELECTOR: 6 positions: AUX (auxiliary or spare), TAPE 1, TAPE 2, TUNER, PHONO 1, and PHONO 2

MODE SELECTOR: 7 positions: Left only to both speakers, Right only to both speakers, STEREO REVERSE, STEREO, MONO, MONO to Left only, MONO to Right only  
HEADPHONES: For low impedance stereo headphones

### SECONDARY CONTROLS

CENTER CHANNEL LEVEL: Top of chassis control. Adjusts the output level of the Left plus Right program material at the CENTER CHANNEL output on the back panel

PHASE CONTROL: Electronically reverse phase in the left channel to correct 'out of phase' program sources

TRANSISTOR COMPLEMENT: 18 silicon-planar transistors 3 diodes

POWER REQUIREMENT: 117/125 volts, 50/60 Hz, 12 watts

MOUNTING: McIntosh developed professional PANLOC

### MECHANICAL SPECIFICATIONS

SIZE: Front Panel: 16 inches wide by  $5\frac{7}{16}$  inches high. Chassis: 15 inches wide by 5 inches high by 13 inches deep including PANLOC shelf and back panel connectors

Knob Clearance:  $1\frac{1}{2}$  inches in front of mounting panel

WEIGHT: 18 pounds net, 32 pounds in shipping carton

FINISH: Front panel: Anodized gold and black with special gold/teal panel nomenclature, beautifully lighted

Chassis: chrome and black

# McIntosh

## delivers Performance • Flexibility • Dependability!

# C 22 THE PREAMPLIFIER YOU DON'T HEAR!

Music heard through the C 22 does not change measurably. The departure from perfection in the output of the C 22 is less than one part in 25,000,000. Pure music means hours of listening enjoyment. Every musical passage, loud or soft, is reproduced accurately.

## CARE IN MANUFACTURING

The C 22 is an example of manufacturing excellence. Each C 22 passes 47 tests designed to prove it is ready for you. Frequency response, harmonic distortion, hum, balance, equalization, plus all functions are tested and re-tested. Published specifications are minimum performance standards backed by a money back guarantee. All McIntosh instruments must be capable of meeting the published specifications or your money will be refunded.

Each component is chosen for maximum performance and maximum reliability. Every component in the C 22 is operated well within its performance limits, a guarantee of longer, trouble free performance. Low noise tubes, metal film wire wound resistors plus high specific resistivity circuit boards achieve low noise performance thought impossible a few years ago.

The styling of the illuminated front panel makes the C 22 easiest to use in any living room. Illumination of the panel is controlled to suit the light level in the room.

**FEATURES:** Four high level inputs, Aux, Tape, Tuner 1 and Tuner 2 plus four low level inputs, Tape Hd, Mic, Phono 1 and Phono 2 are provided. There are tape input/output jacks located on the back panel and the front panel. No other preamplifier offers this convenience. Five AC outlets are provided, four switched, one unswitched.

Separate stepped bass and treble controls are used. Record compensation is either RIAA or LP. A tape monitor switch allows instant checking of recordings in progress. A rumble filter and high frequency filter reduce unwanted noise from all sources.

There is an output level control in each channel and a L+R output control. There are low frequency trim controls. Tape head equalization is continuously variable for maximum performance. A phase switch provides the last necessary touch for stereo enjoyment.

## SPECIFICATIONS

**FREQUENCY RESPONSE:**  $\pm 0.5$  dB from 20 to 20,000 Hz

### DISTORTION:

Less than .02% at 3 volts output, 20 to 20,000 Hz  
Less than 0.2% at 10 volts output, 20 to 20,000 Hz

### HUM AND NOISE:

High level inputs: 85 dB below rated output  
Low level inputs: Less than 1.5 microvolts at input terminals

**INPUT SENSITIVITY AND IMPEDANCE:** Auxiliary, Tape, Tuner 1, and Tuner 2: 0.25 volts, 250,000 ohms  
Phono 1 and Phono 2: 2 millivolts, 47,000 ohms  
Microphone: 2.5 millivolts, 1 megohm  
Tape Head: 2 millivolts, 1 megohm  
Tape Compare: 0.25 volts, 250,00 ohms

**OUTPUTS:** Main (2 jacks on each channel): 2.5 V with rated input  
Tape: 0.25 V with rated input  
Left Plus Right: 1 V from generator impedance of 25,000 ohms

**AUXILIARY AC OUTLETS (5):** 1 unswitched for turntable or tape machine (Red), 4 switched (black)

**POWER REQUIREMENT:** 117 volts, 50-60 Hz AC, 34 watts

**TAPE JACK SWITCH:** 2 position, connects panel jacks to allow signals to be fed from or to the C22 to record or playback using an external portable tape recorder

**BASS CONTROLS:** Separate channel 11 position switch type,  $\pm 20$  dB at 20 Hz

**TREBLE CONTROLS:** Separate channel 11 position switch type,  $\pm 20$  dB at 20,000 Hz

**SIZE:** Front panel: 16 inches wide by 5 $\frac{1}{8}$  inches high; chassis (including PANLOC shelf) 15 inches wide by 5 inches high by 13 inches deep, including connectors; clearance in front of mounting panel including knobs, 1 $\frac{1}{2}$  inches

**FINISH:** Anodized gold and black (front panel)



\$279.00 Cabinet \$29.00

# C 24 "IMPRESSIVE PERFORMANCE FIGURES" in a Solid State Preamplifier!

... Audio Magazine

The McIntosh C 24 solid state preamplifier is 99.9% perfect.

AUDIO magazine in "Equipment Profile" said this about the C 24 distortion: "... less than 0.1 percent from 20 to 20,000 cps." "... impressive performance figures ...". Design excellence, coupled with testing makes the C 24 an excellent preamplifier. Like all McIntosh products the C 24 must meet its published specifications before it is ready for you. Each circuit, each electrical connection, each function is checked and rechecked. Exacting McIntosh testing takes time. The published specifications of the C 24 are your guarantee of performance. All McIntosh instruments must be capable of meeting their advertised specifications or your purchase price will be refunded. No other manufacturer offers this money back guarantee!

## FEATURES:

Three high level inputs, Aux, Tape, Tuner, and three low level inputs, Tape Hd, Phono 1 and Phono 2 are provided. There are jacks on the front panel for low impedance headphones. A speaker on-off switch lets you listen to the headphones in complete privacy. Two positions of record equalization, RIAA or LP. A tape monitor switch makes instant comparison of tape recording easy. Low frequency cutoff at 50 Hz and high frequency cutoff of 5,000 Hz eliminate unwanted noise from marginal source material. A phase switch provides the necessary touch for full stereo. Bass and treble controls are continuously variable  $\pm 18$  dB. A continuously variable loudness control allows the choice of the precise amount of compensation at any volume setting. Left plus right output can be adjusted  $\pm 6$  dB from the main output.

## SPECIFICATIONS

FREQUENCY RESPONSE:  $+0 -0.5$  dB 20 Hz through 20,000 Hz

### DISTORTION:

Less than .1% at 2.5 volts. 20 to 20,000 Hz  
Less than .3% at 10 volts. 20 to 20,000 Hz

INPUT SENSITIVITY AND IMPEDANCE: Auxiliary, Tape, Tuner, and Tape Monitor .25 volts, 250,000 ohms for 2.5 volt output

Phono 1 and Phono 2: 2 millivolts 47,000 ohms  
Tape Head: 2 millivolts, 1 megohm

### TOTAL NOISE:

High Level Inputs: 75 dB below rated output  
Low Level Inputs: 70 dB below 10MV input; equivalent to less than 3 microvolts at input

MAIN OUTPUTS: 2.5 volts output with rated input

TAPE OUTPUTS: .20 volts into 25,000 ohms with rated input; 1.2 volts with 10 millivolts at phono input

LEFT PLUS RIGHT OUTPUT: 2.5 volts from generator impedance of 10K ohms; controlled  $\pm 6$  dB from normal stereo output level

BASE CONTROLS:  $\pm 18$  dB at 20 Hz with friction clutch for independent adjustment of each channel

TREBLE CONTROLS:  $\pm 18$  dB at 20,000 Hz with friction clutch for independent adjustment of each channel

SILICON-PLANAR TRANSISTOR COMPLEMENT (18 total);

POWER REQUIREMENTS: 105-125 volts AC, 60 Hz, 8 watts

SIZE: Front panel, 16 inches wide by  $5\frac{1}{8}$  inches high; chassis 15 inches wide by 5 inches high by 11 inches deep, including connectors. Clearance in front of mounting panel including knobs,  $1\frac{1}{2}$  inches

FINISH: Anodized gold and black (front panel)



\$249.00 Cabinet \$29.00

# MR 73 FM/AM SOLID STATE TUNER

The McIntosh MR 73 is a precision engineered, highly sensitive solid state FM-AM tuner.

The research staff of McIntosh Laboratory, using the latest technology in solid state physics, has developed many circuit advances:

- Phase linear crystal shaped IF amplifiers.
- Integrated Circuits that are the equivalent of 16 transistors, 3 zener diodes, 5 diodes, and 23 resistors.
- Special multiplex (stereo) detecting circuits that eliminate critical adjustments.
- Ultrasonic muting for complete silence between stations while tuning.
- Automatic stereo-mono switching that is "clickless" and completely electronic.
- Visual multipath indicator to help avoid multipath distortion showing as a visual indicator or correct antenna direction for minimum multipath reception.
- New D'Arsonval movement meters of increased sensitivity which do not need zero setting adjustments.
- A new computer designed filter to reduce noise from stations broadcasting subcarrier auxiliary music services. No other tuner uses such a filter.

Once you have enjoyed the outstanding performance of the MR 73, you will understand why McIntosh products have earned their reputation as "THE BEST." Your McIntosh MR 73 tuner will give you years of the finest possible reception, and will be a valued part of your home music system.

## SPECIFICATIONS

### FM

USEABLE SENSITIVITY: 2.5 microvolts at 100% modulation ( $\pm 75$  kHz deviation) for less than 3% total noise and harmonic distortion in accordance with IHF standards.

AUDIO FREQUENCY RESPONSE: Flat from 20 Hz to 20 kHz with standard de-emphasis and 19 kHz pilot filter.

HARMONIC DISTORTION: Mono: Less than 0.3% at 100% modulation  $\pm 75$  kHz deviation. Stereo: Less than 0.7%.

CAPTURE RATIO: Better than 1.5% dB at 100% modulation.

MUTING: AF injected ultrasonic muting: at least 60 dB noise reduction between stations.

OSCILLATOR DRIFT: Less than 25 kHz.

IMAGE REJECTION: Better than 80 dB at 90 MHz; better than 70 dB at 100 MHz.

HUM: Better than 70 dB below 100% modulation.

OUTPUT: Approximately 2.5 volts; low impedance.

FM ANTENNA INPUTS: 300 ohms balanced; 75 ohms unbalanced.

AM ANTENNA INPUTS: Built-in loopstick or external antenna switch selected.

IF: Two IC's and two phase linear crystal filters.

RADIATION: Substantially below FCC requirements.

STEREO SEPARATION: Better than 35 dB at 1 kHz.

STEREO FILTER: Greater than 48 dB suppression of 38 kHz multiplex carrier.

STEREO INDICATOR: Front panel multiplex stereo light activated by 19 kHz carrier-only.

SCA FILTER: 50 dB down at 67 kHz to 74 kHz, 275 dB per octave slope.

AUTOMATIC MONO-STEREO SWITCH: McIntosh developed; all electronic automatic mono-stereo switching circuit.

SEMICONDUCTOR COMPLEMENT: 22 diodes, 24 Transistors, 2 Integrated Circuits, 1 Indicator Tube.

### AM

SENSITIVITY: Better than 12 microvolts at 1000 kHz (using the external antenna input).

FREQUENCY RESPONSE: -6 dB at 5 kHz.

HARMONIC DISTORTION: Less than 1% at 30% modulation.

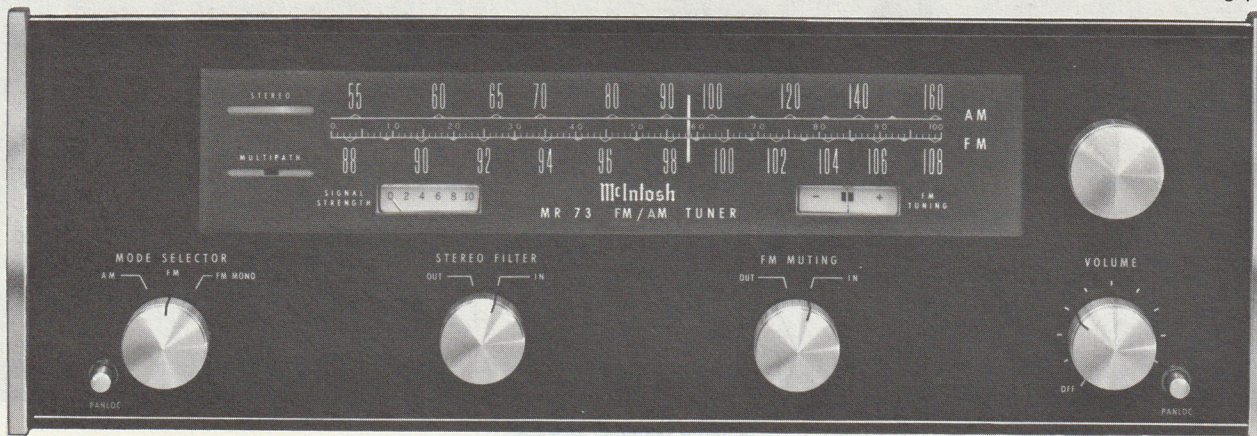
SELECTIVITY: -30 dB at 10 kHz.

IMAGE REJECTION: 60 dB or greater at 1000 kHz.

SIGNAL TO NOISE RATIO: Better than 55 dB.

POWER CONSUMPTION: 20 watts, 105 to 125 volts, 50 to 60 Hz.

SIZE: Front panel: 16 inches wide by 5 $\frac{1}{8}$  inches high; Chassis: 15 inches wide by 13 inches deep, including PANLOC shelf and back panel connectors; Knob Clearance: 1 $\frac{1}{2}$  inches in front of mounting panel.



\$549.00 Cabinet \$29.00

# MR 71 THE MR71 IS "SUPERBER"

... "High Fidelity" Magazine

The MR 71 is the best tuner value today. Every wanted and needed feature for excellent stereo reception has been provided on the MR 71. Highest sensitivity delivers distant stations as clear and full as nearby stations.

Many FM stations not only broadcast stereo programming but also background music services called SCA. On some lesser tuners the SCA can be heard as whistles or birdies in the background of a stereo broadcast. One of the most important features of the MR 71 is a computer designed deep notch filter that eliminates any possibility of SCA interference. Over 35 hours of computer time solved the complex engineering problem. This kind of engineering and concern for listening enjoyment make the MR 71 the excellent tuner it is. The MR 71 carries on the McIntosh tradition of highest quality performance at the lowest possible cost. There is no sacrifice in reliability.

**FEATURES:** Nuistor front end for maximum sensitivity. Built-in multipath indicator tells you when you are getting the best performance from your antenna system. The self-peaking multiplex decoder does away with re-alignment. The decoder will remain in alignment year after year. The signal strength meter indicates when you are receiving maximum signal strength. The center channel meter indicates when you are precisely tuned to the center of the FM station. Silent, efficient, electronic stereo switching works only on stations broadcasting in full stereo.

A two position dial brightness switch makes it easy to adjust the amount of light on the front dial. A convenient front panel volume control can be used, or if you prefer, constant volume outputs on the rear of the tuner that can be connected to your control center. Completely variable AFC control permits the use of just the right amount of AFC to hold distant weak stations when located on the dial right beside a strong local station. A front panel muting switch rejects the noise between stations. Both 300 and 75 ohm antenna terminals are provided on the rear panel. Flywheel tuning with no backlash makes tuning the MR 71 a continuing pleasure.

## SPECIFICATIONS

**USEABLE SENSITIVITY:** Better than 2.5 microvolts at 100% modulation ( $\pm 75$  kHz deviation) for less than 3% total noise and harmonic distortion in accordance with IHFM standards

**AUDIO FREQUENCY RESPONSE:** Within  $\frac{1}{2}$  dB from 20 to 20,000 Hz including 75 microsecond de-emphasis

**DISTORTION:** Less than 0.5% at 100% modulation  $\pm 75$  kHz deviation

**CAPTURE RATIO:** 1.5 dB at 100% modulation

**MUTING:** IF injected ultrasonic muting; at least 60 dB quieting between stations

**IMAGE REJECTION:** Better than 80 dB at 90 MHz; better than 70 dB at 105 MHz

**HUM:** Better than 70 dB below 100% modulation

**OUTPUT:** Approx. 2.5 volts; low-source impedance

**ANTENNA INPUTS:** 300 ohms balanced; 75 ohms unbalanced

**RF AMPLIFIER:** Cascode with 6DS4 Nuistor in first stage

**IF AMPLIFIERS:** Five stages; 200 kHz bandwidth

**TUNING INDICATORS:** Two, signal strength presentation and precise tuning indication. New D'Arsonval movement meters of increased sensitivity which do not need zero adjustment

**FM MULTIPATH RECEPTION INDICATOR:** An exclusive new McIntosh development; the electron ray tube indicates multipath distortion

**MULTIPLEX CHANNEL SEPARATION:** Better than 35 dB at 1000 Hz

**MULTIPLEX FILTER:** Greater than 48 dB suppression below 100% modulation of 19 kHz pilot and 38 kHz carrier

**MULTIPLEX INDICATOR:** MPX stereo light activated by 19 kHz carrier only

**MULTIPLEX TYPE:** Peak-detecting, self-matrixing detector

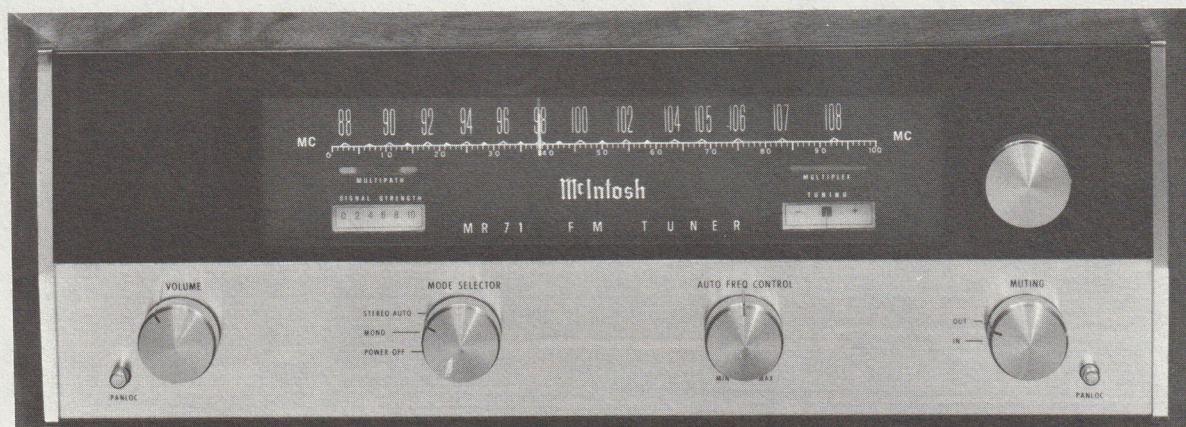
**LIMITERS:** Two stages

**SCA FILTER:** 50 dB down at 67 kHz 275 dB per octave slope

**AUTOMATIC MONO-STEREO SWITCH:** An exclusive McIntosh development; all-electronic automatic mono-stereo switching circuit (Pat. Pend.)

**POWER CONSUMPTION:** 70 watts, 105 to 125 volts, 50 to 60 Hz

**DIMENSIONS:** Front Panel, 16 inches wide by  $5\frac{1}{4}$  inches high; chassis (including PANLOC shelf) 15 inches wide by 5 inches high by 13 inches deep, including connectors; clearance in front of mounting panel including knobs,  $1\frac{1}{2}$  inches



\$399.00 Cabinet \$29.00

# MX 112      MAXIMUM FLEXIBILITY... HIGHEST PERFORMANCE...      SOLID STATE RELIABILITY

## FM/AM Tuner – Preamplifier in a minimum space!

The MX 112 combines in one unit an extremely low-distortion preamplifier with a highly sensitive FM multiplex tuner and an AM tuner for added complete listening pleasure.

Every desirable feature of a tuner and preamplifier is included in this design. FM interstation noise suppression (muting), tuning indicator, FM multiplex indicator, individual channel bass and treble controls, and electronic phase switch have all been engineered into the MX 112. The MX 112 is completely solid state, with the exception of the tuning indicator. The solid state devices used in the MX 112 are considered "very new" in the state of the art of solid state physics.

The McIntosh MX 112 is a beautifully engineered tuner/control center for the finest stereo sound systems.

### SPECIFICATIONS

#### FM

USABLE SENSITIVITY: Better than 2.5 microvolts at 100% modulation ( $\pm 75$  kHz deviation) for less than 3% total noise and harmonic distortion (IHF)

FREQUENCY RESPONSE:  $\pm 1$  dB from 20 Hz to 20,000 Hz with standard de-emphasis and 19,000 Hz pilot filter

HARMONIC DISTORTION: Mono, less than 0.5% at 100% modulation  $\pm 75$  kHz deviation

IMAGE REJECTION: Better than 80 dB at 100 MHz better than 70 dB at 105 MHz

SPURIOUS REJECTION: Better than 100 dB

CAPTURE RATIO: Better than 1.8 dB

DRIFT: Less than 25,000 Hz

HUM AND NOISE: Better than 65 dB below 100% modulation

TUNING INDICATOR: Electron Ray for simple accurate center of channel tuning

STEREO INDICATOR: Stereo light activated by 19 kHz carrier only

#### AM

SENSITIVITY: Better than 12 microvolts at 1,000 kHz (using external antenna input)

SIGNAL TO NOISE RATIO: Better than 55 dB

HARMONIC DISTORTION: Less than 1% at 30% Mod.

FREQUENCY RESPONSE: Down 6 dB at 5,000 Hz and 34 dB at 10,000 Hz

SELECTIVITY: 10,000 Hz at  $-6$  dB

IMAGE REJECTION: 60 dB or greater at 1000 kHz

#### PREAMPLIFIER SPECIFICATIONS

FREQUENCY RESPONSE:  $\pm 0.5$  dB 20 to 20,000 Hz

DISTORTION: Less than 0.1% at 2.5 volts output, 20 to 20,000 Hz

HUM AND NOISE: PHONO 1 and PHONO 2; 72 dB below 10 millivolt input, equivalent to less than 3 microvolts at the input terminals

AUX, TAPE; 85 dB below rated output

TONE CONTROLS: Clutch coupled for independent adjustment

BASS:  $-18$  dB to  $+16$  dB at 20 Hz, TREBLE:  $\pm 20$  dB at 20,000 Hz

POWER REQUIREMENTS: 117/125 volts, 50/60 Hz, 30 watts

#### SPECIAL FEATURES

##### FM

Automatic stereo switching with manual defeat  
Dual Multiple-Resonant-Circuit band-pass. I.F. filters for high selectivity

Multiplex and SCA filters to suppress subcarrier frequencies

Noise rejecting logic circuit used to activate muting, stereo light and automatic stereo switching circuits

Illuminated pointer/flywheel tuning for ease of operation and precise tuning

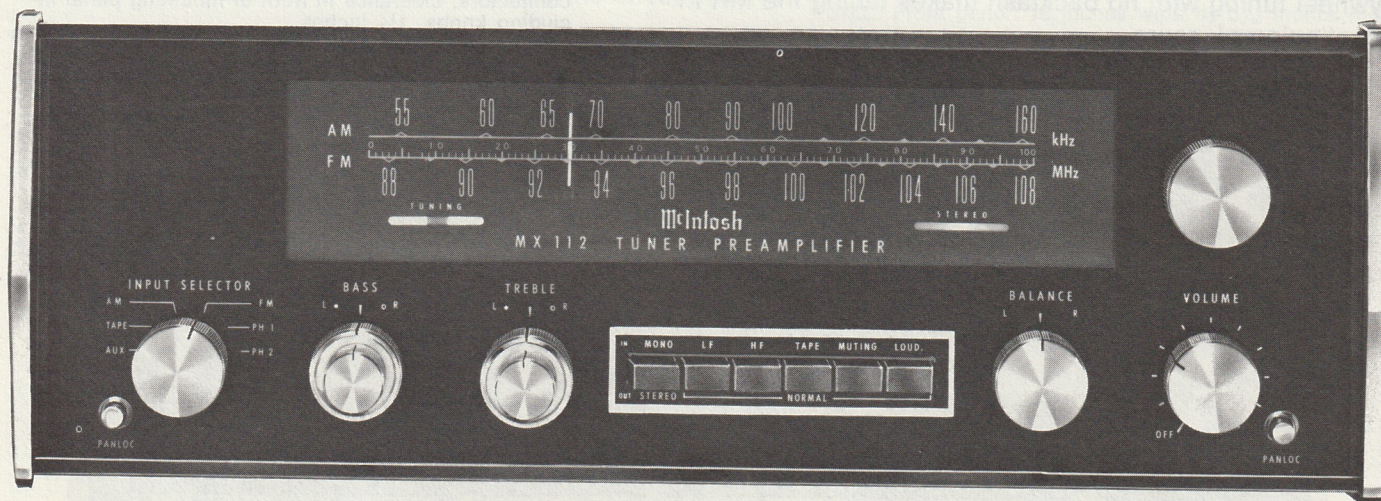
Two integrated circuits for very high I.F. gain

Electron-Ray tuning indicator for accurate tuning

##### AM

Built-in Ferrite AM antenna. Connections are provided for the use of an external AM antenna

MOS-FET transistor used in all stages for low cross modulation and excellent AGC action



\$599.00 Cabinet \$29.00

# MX 114 SOLID STATE SUPERIOR FM STEREO TUNER with PREAMPLIFIER

## FM

**USABLE SENSITIVITY:** Better than 2.5 microvolts at 100% modulation ( $\pm 75$  kHz deviation) for less than 3% total noise and harmonic distortion (IHF)

**FREQUENCY RESPONSE:**  $\pm 1$  db from 20 Hz to 20,000 Hz with standard de-emphasis and 19,000 Hz pilot filter

**HARMONIC DISTORTION:** Mono, less than 0.5% at 100% modulation  $\pm 75$  kHz deviation

**IMAGE REJECTION:** Better than 80 dB at 100 MHz better than 70 dB at 105 MHz

**SPURIOUS REJECTION:** Better than 100 dB

**CAPTURE RATIO:** Better than 1.8 dB

**DRIFT:** Less than 25,000 Hz

**HUM AND NOISE:** Better than 65 dB below 100% modulation

**TUNING INDICATOR:** Electron Ray for simple accurate center of channel tuning

**STEREO INDICATOR:** Stereo light activated by 19 kHz carrier only

## PREAMPLIFIER SPECIFICATIONS

**FREQUENCY RESPONSE:**  $\pm 0.5$  dB 20 to 20,000 Hz

**DISTORTION:** Less than 0.1% at 2.5 volts output, 20 to 20,000 Hz

**INPUT SENSITIVITY AND IMPEDANCE:** PHONO 1 and PHONO 2: 2 millivolts at 47,000 ohms for 2.5 volts output

**AUX TAPE:** .25 volts at 250,000 ohms for 2.5 volts output

**HUM AND NOISE:** PHONO 1 and PHONO 2: 70 dB below 10 millivolt input; equivalent to less than 3 microvolts at the input terminals

**AUX TAPE:** 85 dB below rated output

**OUTPUT: MAIN:** 2.5 volts with rated input. Up to 10 volts can be developed without distortion

**TAPE:** 2.5 volts with rated input

**L + R:** 2.0 volts with rated input

**OUTPUT IMPEDANCE: MAIN:** 200 ohms, designed to operate into 47,000 ohms or more

**TAPE OUTPUT:** About 200 ohms, designed to operate into 47,000 ohms or more

**(L + R):** About 1,200 ohms, designed to operate into 47,000 ohms or more

**POWER REQUIREMENTS:** 117/125 volts, 50/60 Hz, 30 watts

## FACILITIES

**BASS CONTROL:**  $-20$  dB to  $+16$  dB at 20 Hz. Clutch coupled controls for independent adjustment of each channel

**TREBLE CONTROLS:**  $\pm 20$  dB at 20,000 Hz. Clutch coupled controls for independent adjustment of each channel

**LOUDNESS:** Flat response, or compensated for low listening levels

**BALANCE:** When program material is out of balance, rotation of the balance control returns the program to natural balance

**VOLUME CONTROL:** Precision "tracked" to  $-60$  dB so that proper stereo balance is maintained. AC ON/OFF switch is coupled with the volume control

**TAPE MONITOR SWITCH:** Push button; compares recorded tape with program source while recording

**VOLTAGE AMPLIFICATION:**

**AUX, TAPE**

To MAIN output 20 dB

To TAPE output 0 dB

**PHONO 1, PHONO 2**

To MAIN output 62 dB

To TAPE output 42 dB

**AC OUTLETS:**

1 unswitched (Red)

2 switched

**LF FILTER:** Flat, or roll-off below 50 Hz, 6 dB per octave, down 12 dB at 20 Hz

**HF FILTER:** Flat, or roll-off above 5 kHz, 6 dB per octave, down 12 dB at 20,000 Hz

**INPUT SELECTOR:** 5 positions: AUX (auxiliary or spare), TAPE, FM, PHONO 1, and PHONO 2

**MODE SELECTOR:** Pushbutton, STEREO, or MONO

## SECONDARY CONTROLS

**PHASE CONTROL:** Electronically reverse phase in the left channel to correct "out of phase" program sources

**MUTING ADJUST:** Modifies the noise rejection threshold

**DIAL SCALE INTENSITY:** Modifies the brightness of the illumination of the front panel



\$549.00 Cabinet \$29.00

**Ceretti**

# MI 3

## TUNE STEREO with PROFESSIONAL ACCURACY!

The McIntosh MI 3 is five laboratory instruments combined into one compact unit. It is a professional oscilloscope, relative signal strength indicator, calibrated FM deviation meter, calibrated balance and phase indicator. These instruments are used by FM stations to determine the best possible performance for your listening enjoyment. The McIntosh MI 3 Maximum Performance Indicator makes it easy for you to attain professional broadcasting quality FM listening. Multipath is a reception, and antenna problem. Generally it is independent of tuner specifications or performance. To overcome multipath reception it is necessary to orient the antenna for minimum multipath reception. With multipath reception eliminated your FM reception has:

- ... minimum noise level
- ... absolute minimum distortion
- ... fullest stereo separation
- ... overload protection from strong signals.

With practice, good clean FM signals are easy to identify. You will know when a station is broadcasting a true stereo broadcast. You will know when you will get the best signal for tape recording. You will know when you are getting the maximum performance possible from your FM tuner.

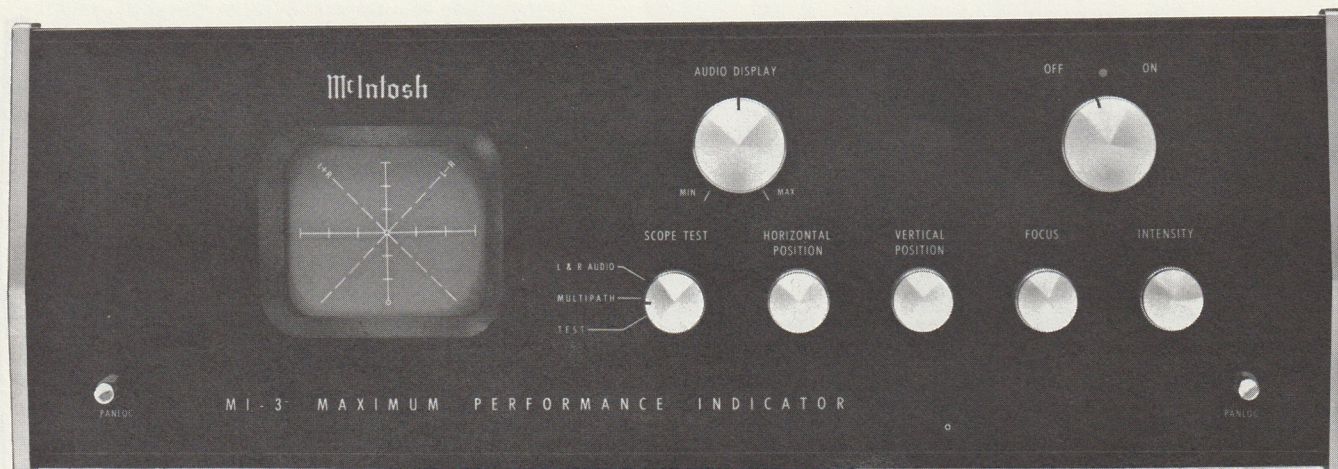
### HERE IS HOW IT WORKS

The McIntosh MI 3 is a professional oscilloscope. The three inch oscilloscope displays the electrical signals present in your stereo system. The display changes position and shape with the program material heard through your stereo system. With a small amount of practice you can interpret what the display means to your listening enjoyment.

To show multipath, the horizontal display voltage is obtained from the tuner discriminator output before de-emphasis. This voltage is proportional to the frequency deviation of the FM transmission. The maximum width of the screen indicates approximately 75 kHz, the frequency deviation of the FM transmitter.

The vertical display voltage is obtained from the tuner automatic gain control circuit at the input of the first limiter. This voltage is proportional to the station's signal strength. Even weak stations will produce adequate vertical voltage for display.

For audio displays the horizontal display voltage is obtained from the right channel output of the preamplifier or power amplifier. The vertical display voltage is obtained from the left channel output of the preamplifier or power amplifier. The resultant display shows you the amount of stereo separation. It also shows the amplitude of the signals present.

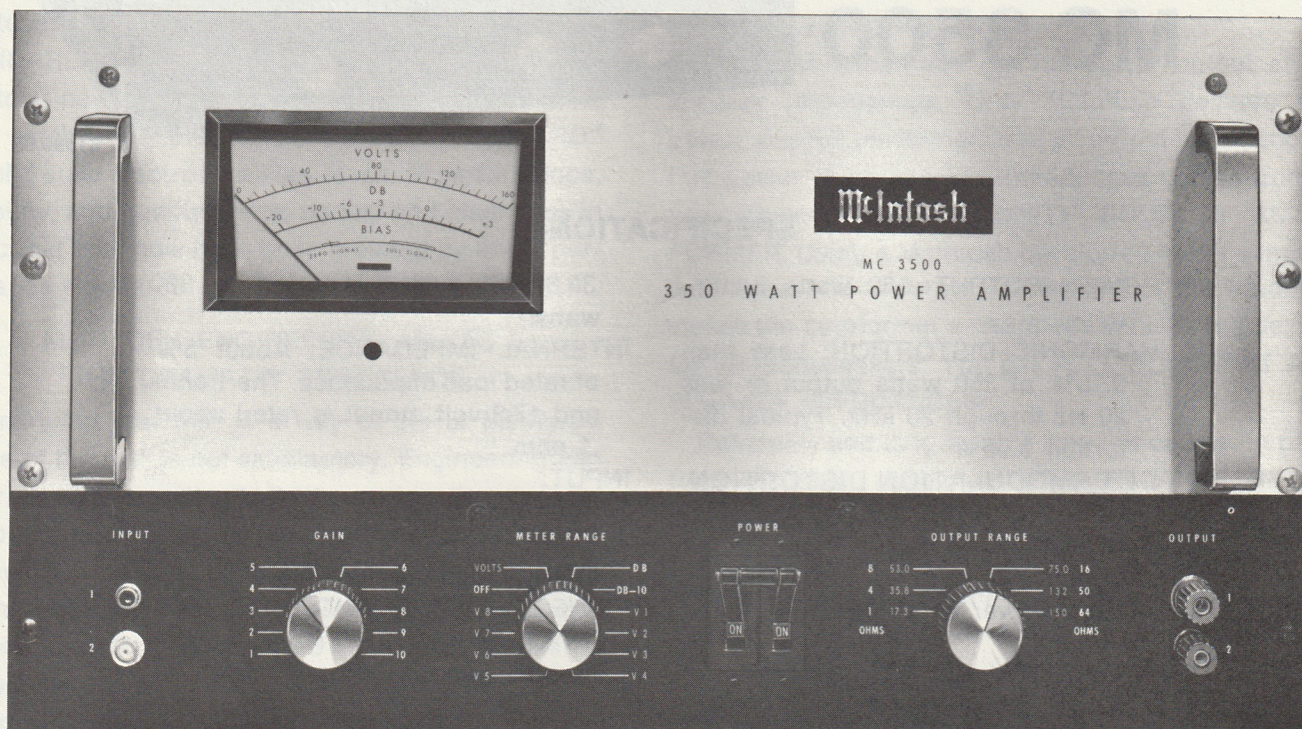


\$249.00 Cabinet \$29.00

# WHAT MAKES A GOOD MUSIC SYSTEM GREAT?

## *the* MC 3500

DELICATE MUSICAL PASSAGES REPRODUCED WITH CLEANNESSTHUNDEROUS  
*and* CRESCENDOS WITH ALL THE INSTRUMENTS CLEARLY DEFINED—  
 RESERVE ENERGY TO GO FROM ONE TO THE OTHER WITHOUT TAXING THE SYSTEM



Do you hear all there is to hear from your music system? Are the smaller delicate sounds clouded by distortion? Is a full orchestra muddled from a lack of reserve and power in your amplifier? Do you have an excellent but power hungry loudspeaker? Are you getting all the performance you desire? The answer for you is the McIntosh MC 3500.

Low distortion, less than 15/100 of 1% at full output or less, high power, 350 watts RMS, and full power response, produce these specifications from 20 Hz through 20,000 Hz.

Twenty years of experience with the McIntosh Unity Coupled circuit and the McIntosh Bifilar transformer led to a new accomplishment in amplifier design. This major step forward in performance comes from the development of a new transformer—the McIntosh PENTAFILAR OUTPUT TRANSFORMER. The five primary windings, carefully interlaced with the secondary deliver wide band width, low distortion, and high power. The PENTAFILAR winding technique reduces leakage inductance to the absolute minimum. Use of the PENTAFILAR OUTPUT TRANSFORMER and UNITY COUPLED circuit gives the MC 3500 a band width of 10 Hz to 80,000 Hz.

The MC 3500 front panel meter provides continuous monitoring of the power output, the voltage delivered to the loudspeakers, the

condition of the output stages and instantaneous peak power indication in musical programming. A versatility that never has before been available on an amplifier of this quality. The McIntosh Dynamic Peak Locking meter provides a new flexibility.

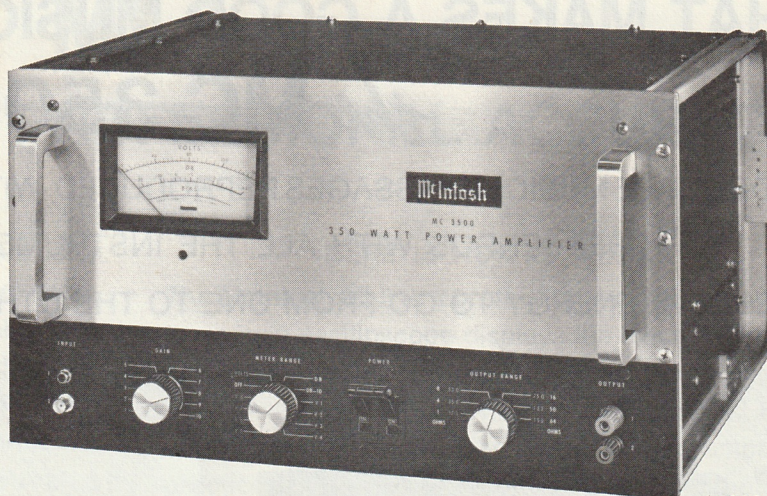
Ordinary meters lack the capability of indicating the short interval power in a sound wave. The mass of the meter movement is too great to respond to instantaneous changes in music program material. Superior McIntosh engineering has developed new circuitry that permits the meters on the MC 3500 to respond to the short interval power in a sound wave to an accuracy of 98% of the true value. This is another McIntosh development that represents a major step forward in the use of power level meters.

Performance, guaranteed performance is standard from McIntosh. Each McIntosh instrument must be capable of meeting its advertised specifications or your purchase price will be refunded! No other manufacturer makes such a promise.

Dependability is a standard with McIntosh. McIntosh instruments have been conservatively designed and carefully manufactured. We can therefore offer a FREE THREE YEAR FACTORY SERVICE CONTRACT. It can't cost you a cent for service, neither parts nor labor, for the first three years you own your MC 3500. No other manufacturer makes such a promise.

## HEAR ALL THERE IS TO HEAR WITH THE MC 3500

# MC 3500



\$1099.00

## SPECIFICATIONS

**POWER OUTPUT:** 350 watts continuous

**HARMONIC DISTORTION:** Less than 0.15% at 350 watts output or less 20 Hz through 20 kHz. Typical distortion 0.05%

**INTERMODULATION DISTORTION:** Less than 0.15% for any combination of frequencies from 20 Hz through 20 kHz if instantaneous peak power is below twice rated power.

**FREQUENCY RANGE:**

**AT RATED OUTPUT:**

+0, -0.5 dB, 20 Hz through 20 kHz

**AT REDUCED OUTPUT:**

+0, -3.0 dB at 1 watt output, 1 Hz through 70 kHz

**NOISE AND HUM:** 95 dB or more below rated output (unweighted)

**OUTPUT IMPEDANCE:** 1 ohm, 4 ohms, 8 ohms, 16 ohms, 50 ohms, and 64 ohms. May be operated isolated from ground. (1 ohm output is rated to 300 watts, the 4 ohm output is rated to 320 watts.)

**OUTPUT VOLTAGES:** 17.3 volts, 35.8 volts, 53 volts, 75 volts, 132 volts, 150 volts. May be operated isolated from ground. The 75 volt output is used to power 70.7 volt sound distribution lines. The 150 volt output is used to power 141.4 volt distribution lines. The 132 volt output is used to provide 117 volt for laboratory or industrial applications. (17.3 volt output is rated to 300 watts, the

35.8 volt output is rated to 320 watts.)

**INTERNAL IMPEDANCE:** About 5% of rated load impedance. The 1 ohm and 17.3 volt output is rated about .1 ohm.

**INPUT:**

Input Impedance—200,000 ohms

Input Sensitivity—1.1 volt to 30 volts through gain control

**POWER REQUIREMENTS:** 117 volts to 125 volts at 50/60 Hz: 400 watts at zero signal output: 900 watts at rated output

**SOLID STATE COMPLEMENT:**

3—Silicon Transistors

3—Germanium Diodes

2—Silicon Zener Diodes

9—Silicon Rectifiers and Diodes

**TUBE COMPLEMENT:**

2—12AX7

2—6DJ8

1—6CG7

1—6BL7

8—6LQ6

**DIMENSIONS:**

Front Panel—10½ inches high x 19 inches wide

Chassis—17 inches behind panel including connections

Knobs project 2 inches in front of panel

**FINISH:**

Front Panel—Gold Anodized aluminum and black

Chassis—Chrome and black

**WEIGHT:** Chassis only—125 pounds. In shipping crate 135 pounds.

# McIntosh

## Laboratory Standard

McIntosh amplifiers have been the "LABORATORY STANDARD" in vacuum electronics for 20 years. McIntosh new engineering innovations in solid state have established the "LABORATORY STANDARD" for solid state electronics. New levels of performance, reliability, and quality create beauty and cleanness in music that until now have been clouded by lower performance standards.

### McINTOSH ENGINEERING MAKES THE DRAMATIC DIFFERENCE

Continuing research is a way of life at McIntosh. "State of the Art" is not satisfactory. Engineering and experimentation without limits probe the present day boundaries of instrument performance. This expensive, far reaching program profits you by producing the best performance, greatest reliability, useful flexibility and long trouble free life. Careful examination of space age advances in electronics, new manufacturing developments and twenty years of experience in producing the "BEST" has given McIntosh the leadership in Solid State Electronics.

Performance in an amplifier comes from low distortion and high power capability. McIntosh solid state electronics amplifiers are guaranteed to deliver less than 25/100 of 1% distortion at all audio frequencies at all power levels up to full rated power RMS with both channels operating. Typical measurements are less than 1/10 of 1%!

You will hear all there is to hear with a clarity and naturalness never before achieved. And this performance is guaranteed!

Only McIntosh gives you a money back guarantee of performance. Every McIntosh instrument must be capable of meeting its advertised specifications or you get a refund of your purchase price. McIntosh promises performance. We either meet our promises

or you get your money back.

With a McIntosh you get full power output at all speaker impedances. Only McIntosh delivers full power and full performance at all output impedances. Full power at all speaker impedances comes from a new development, the UNITY COUPLED AUTOFORMER. Using a McIntosh developed trifilar winding technique, and accurate interleaving of the windings makes the autoformer a near perfect matching device for all loudspeakers. You get FULL POWER AT ALL SPEAKER IMPEDANCES.

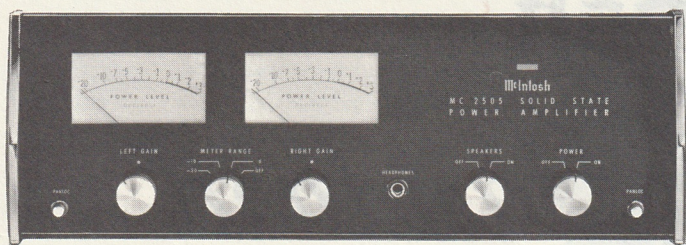
Reliability and long trouble free life comes, in part, from McIntosh developed PERFORMANCE RELIABILITY SENSOR CIRCUITS.

To assure you of continued top performance, true system balance, and to provide accurate power monitoring capabilities McIntosh has developed DYNAMIC PEAK LOCKING METERS.

Ordinary meters lack the capability of indicating the short interval power in a sound wave. The mass of the meter movement is too great to respond to instantaneous changes in music program material. Superior McIntosh engineering has developed new circuitry that permits the meters to respond to the short interval power in a sound wave to an accuracy of 98% of the true value. This is another McIntosh development that represents a major step forward in the use of power level meters.

And best of all—you are protected for THREE FULL YEARS from any service costs. With the purchase of a McIntosh you are offered a FREE THREE YEAR FACTORY SERVICE CONTRACT. You can't pay us for the repair of a McIntosh for the first three years you own it!

McIntosh is the best in PERFORMANCE, RELIABILITY, AND VALUE.



\$449.00

## MC 2505 SPECIFICATIONS

**POWER OUTPUT:** 50 watts RMS continuous power per channel, both channels operating into a 4 ohm, 8 ohm, or 16 ohm load

**HARMONIC DISTORTION:** Less than 0.25% at rated power output from 20 to 20,000 Hz. Distortion typically measures less than 0.1%. Distortion decreases as output power is reduced

**INTERMODULATION DISTORTION:** Less than 0.25% for any combinations of frequencies between 20 and 20,000 Hz at 100 peak watts output per channel or at any level less than 100 peak watts per channel both channels operating

**FREQUENCY RESPONSE:**

At rated output, both channels operating: +0 - .25 dB 20 through 20,000 Hz

At reduced output, both channels operating: +0 - 3 dB 5 through 70,000 Hz

**OUTPUT IMPEDANCE:** Output taps are provided for 4 ohm, 8 ohm, and 16 ohm loads. Full rated power output is provided at each output tap. The 16 ohm output will provide 25 volts RMS for constant voltage multiple speaker distribution lines

**OUTPUT DAMPING FACTOR:**

14 at 4 ohms, 27 at 8 ohms, 13 at 16 ohms

**INPUT SENSITIVITY:** 0.5 volts will produce rated power output; a gain control is provided for each channel allowing independent adjustment of amplification in each channel. Input impedance 200,000 ohms

**HUM AND NOISE:** Greater than 90 dB below rated output

**OUTPUT POWER MONITOR METER:** Meter is calibrated to read +3 dB when amplifier produces 50 watts. Meter range switch is provided to increase meter sensitivity by 10 dB or 20 dB. Meter features special circuit to respond to peak value of complex input signal. Calibration accuracy at 0 dB reading is  $\pm 2\%$  at all frequencies; meter range accuracy is  $\pm 5\%$

**HEADPHONE OUTPUT:** Designed for low impedance phones

**CONTROLS:** Power on-off switch, speaker on-off switch, left gain, right gain, meter range switch

**SPECIAL FEATURES:** The amplifier is completely stable when connected to any loudspeaker system or even to reactive loads. The MC2505 has special circuits to prevent damage by short circuit or open circuit of the output loads, or by any amount of output impedance mismatch

Thermal cutouts are mounted on the output transistor heat sinks to provide protection in the event of inadequate ventilation

**SEMICONDUCTOR COMPLEMENT:**

26 silicon transistors  
27 silicon rectifiers and diodes

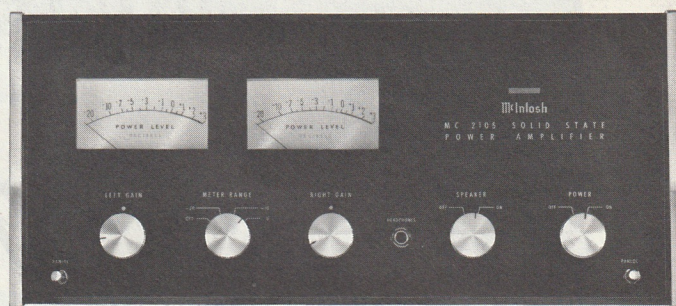
**POWER REQUIREMENTS:** 117 volts AC 50-60 Hz, 75 watts at zero signal output 250 watts at rated output

**SIZE:** Front panel, 16 inches wide by  $5\frac{1}{4}$  inches high; chassis 15 inches wide by  $4\frac{1}{2}$  inches high by 13 inches deep, including connectors. Clearance in front of mounting panel including knobs,  $1\frac{1}{2}$  inches

**FINISH:** Front Panel: Anodized gold and black

**CHASSIS:** Chrome and black

**MOUNTING:** Convenient, professional PANLOC



\$649.00

## MC 2105 SPECIFICATIONS

**POWER OUTPUT:** 105 watts RMS continuous power per channel, both channels operating into a 4 ohm, 8 ohm, or 16 ohm load

**HARMONIC DISTORTION:** Less than 0.25% at rated power output from 20 to 20,000 Hz. Distortion typically measures less than 0.1%. Distortion decreases as output power is reduced

**INTERMODULATION DISTORTION:** Less than 0.25% for any combinations of frequencies between 20 and 20,000 Hz at 210 peak watts output per channel or at any level less than 210 peak watts per channel both channels operating

**FREQUENCY RESPONSE:**

At rated output, both channels operating: +0 - .25 dB 20 through 20,000 Hz

At reduced output, both channels operating: +0 - 3 dB 5 through 70,000 Hz

**OUTPUT IMPEDANCE:** Output taps are provided for 4 ohm, 8 ohm, and 16 ohm loads. Full rated power output is provided at each output tap. The 8 ohm output will provide 25 volts RMS for constant voltage multiple speaker distribution lines

**OUTPUT DAMPING FACTOR:**

18 at 4 ohms, 13 at 8 ohms, 10 at 16 ohms

**INPUT SENSITIVITY:** 0.5 volts will produce rated power output; a gain control is provided for each channel allowing independent adjustment of amplification in each channel. Input impedance 200,000 ohms

**HUM AND NOISE:** Greater than 90 dB below rated output

**OUTPUT POWER MONITOR METER:** Meter is calibrated to read +3 dB when amplifier produces 105 watts. Meter range switch is provided to increase meter sensitivity by 10 dB or 20 dB. Meter features special circuit to respond to peak value of complex input signal. Calibration accuracy at 0 dB reading is  $\pm 2\%$  at all frequencies; meter range accuracy is  $\pm 5\%$

**HEADPHONE OUTPUT:** Designed for low impedance phones

**CONTROLS:** Power on-off switch, speaker on-off switch, left gain, right gain, meter range switch

**SPECIAL FEATURES:** The amplifier is completely stable when connected to any loudspeaker system or even to reactive loads. The MC2105 has special circuits to prevent damage by short circuit or open circuit of the output loads, or by any amount of output impedance mismatch

Thermal cutouts are mounted on the output transistor heat sinks to provide protection in the event of inadequate ventilation

**SEMICONDUCTOR COMPLEMENT:**

34 silicon transistors  
18 silicon rectifiers and diodes

**POWER REQUIREMENTS:** 117 volts AC 50-60 Hz, 90 watts at zero signal output 430 watts at rated output

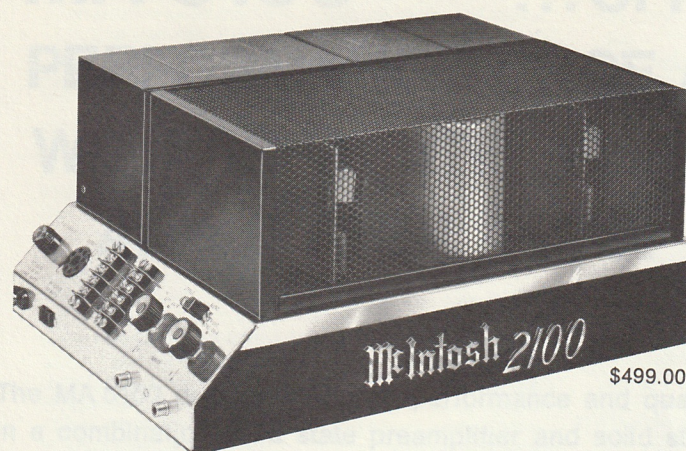
**SIZE:** Front panel,  $16\frac{3}{4}$  inches wide by  $7\frac{1}{4}$  inches high; chassis  $14\frac{1}{4}$  inches wide by  $6\frac{1}{4}$  inches high by  $14\frac{1}{2}$  inches deep, including connectors. Clearance in front of mounting panel including knobs,  $1\frac{1}{2}$  inches

**FINISH:** Front Panel: Anodized gold and black

**CHASSIS:** Chrome and black

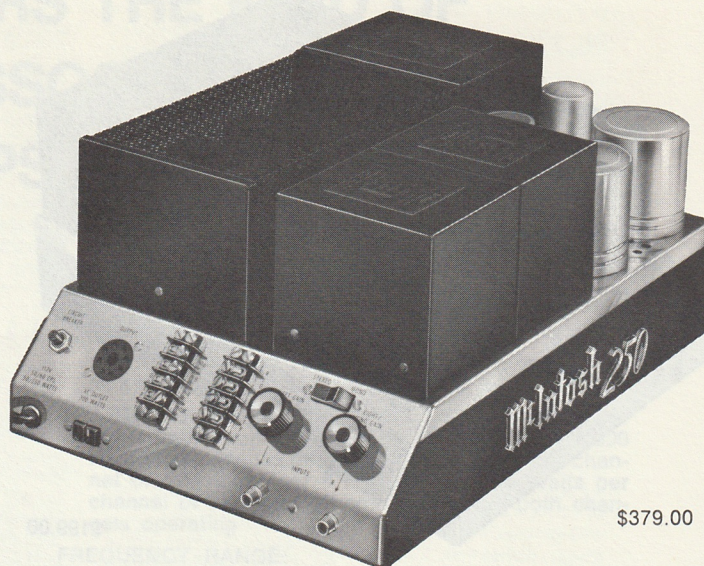
**MOUNTING:** Convenient, professional PANLOC

## MC 2100



\$499.00

## MC 250



\$379.00

### SPECIFICATIONS

#### POWER OUTPUT:

Stereo—105 RMS watts continuous per channel into 4, 8, or 16 ohms both channels operating.

Mono—210 RMS watts continuous into 2, 4, or 8 ohms.

#### HARMONIC DISTORTION:

Stereo—Less than 0.25% at 105 watts output from 20 Hz to 20 kHz both channels operating. Typical performance is less than 0.1% at rated power. Distortion decreases as output is reduced.

Mono—Less than 0.25% at 210 watts output from 20 Hz to 20 kHz. Typical performance is less than 0.1% at rated power. Distortion decreases as output power is reduced.

#### INTERMODULATION DISTORTION:

Stereo—Less than 0.25% if instantaneous peak power output is 210 watts or less per channel with both channels operating for any combination of frequencies 20 Hz to 20 kHz.

Mono—Less than 0.25% if instantaneous peak power output is 420 watts or less for any combination of frequencies 20 Hz to 20 kHz.

#### FREQUENCY RANGE:

20 Hz to 20 kHz +0, -0.1 dB at rated power.

15 Hz to 60 kHz +0, -0.5 dB at rated power.

10 Hz to 100 kHz +0, -3.0 dB at one-half of rated power.

#### NOISE AND HUM:

90 dB or more below rated output.

#### OUTPUT IMPEDANCE:

Stereo—4, 8, and 16 ohms.

Mono—2, 4, and 8 ohms.

#### OUTPUT VOLTAGES:

25 volts Stereo and Mono

#### DAMPING FACTOR:

20 at 4 ohms output

14 at 8 ohms output

11 at 16 ohms output

#### INPUT IMPEDANCE:

200,000 ohms.

#### INPUT SENSITIVITY:

0.5 volt. Level control provided for higher input voltage.

#### POWER REQUIREMENTS:

117 volts AC 50/60 Hz, 50 watts at zero signal output. 450 watts at rated output.

#### SEMICONDUCTOR COMPLEMENT:

32 silicon transistors

14 silicon rectifiers and diodes.

#### SIZE:

7-3/4 inches high, 11-3/4 inches wide, 17 inches deep.

#### CHASSIS:

Chrome and black.

### SPECIFICATIONS

#### POWER OUTPUT:

Stereo—50 RMS watts continuous per channel into 4, 8, and 16 ohms both channels operating.

Mono—100 RMS watts continuous into 2, 4, or 8 ohms.

#### HARMONIC DISTORTION:

Stereo—Less than 0.25% at 50 watts output from 20 Hz to 20 kHz, both channels operating. Typical performance is less than 0.1% at rated power. Distortion decreases as output power is reduced.

Mono—Less than 0.25% at 100 watts output from 20 Hz to 20 kHz. Typical performance is less than 0.1% at rated power. Distortion decreases as output power is reduced.

#### INTERMODULATION DISTORTION:

Stereo—Less than 0.25% if instantaneous peak power output is 100 watts or less per channel with both channels operating for any combination of frequencies 20 Hz to 20 kHz.

Mono—Less than 0.25% if instantaneous peak power output is 200 watts or less for any combination of frequencies 20 Hz to 20 kHz.

#### FREQUENCY RANGE:

20 Hz to 20 kHz +0, -0.1 dB at rated power.

10 Hz to 50 kHz +0, -0.5 dB at rated power.

7 Hz to 100 kHz +0, -3.0 dB at one-half rated power.

#### NOISE AND HUM:

90 dB or more below rated output.

#### OUTPUT IMPEDANCE:

Stereo—4, 8, and 16 ohms

Mono—2, 4, and 8 ohms

#### OUTPUT VOLTAGES:

25 volts Stereo and Mono.

#### DAMPING FACTOR:

15 at 4 ohms output

38 at 8 ohms output

17 at 16 ohms output

#### INPUT IMPEDANCE:

200,000 ohms

#### INPUT SENSITIVITY:

0.5 volts. Level control provided for higher input voltages.

#### POWER REQUIREMENTS:

117 volts AC 50/60 Hz, 50 watts at zero signal output, 250 watts at rated output.

## MC 50



\$199.00

### SPECIFICATIONS

#### POWER OUTPUT:

50 RMS watts continuous into 4, 8, or 16 ohms.

#### HARMONIC DISTORTION:

Less than 0.25% at 50 watts power output from 20 Hz to 20 kHz. Typical performance is less than 0.1% at rated power. Distortion decreases as output power is reduced.

#### INTERMODULATION DISTORTION:

Less than 0.25% if instantaneous peak power output is 100 watts or less for any combination of frequencies 20 Hz and 20 kHz.

#### FREQUENCY RANGE:

20 Hz to 20 kHz  $\pm 0$ ,  $-0.1$  dB at 50 watts  
10 Hz to 50 kHz  $\pm 0$ ,  $-0.5$  dB at 50 watts  
7 Hz to 100 kHz  $\pm 0$ ,  $-3.0$  dB at 25 watts

#### NOISE AND HUM:

90 dB or more below rated output.

#### OUTPUT IMPEDANCE:

4, 8, and 16 ohms.

#### OUTPUT VOLTAGES:

25 volts

#### DAMPING FACTOR:

25 at 4 ohms output  
50 at 8 ohms output  
17 at 16 ohms output

#### INPUT IMPEDANCE:

200,000 ohms.

#### INPUT SENSITIVITY:

0.5 volt. Level control provided for higher input voltage.

#### SPECIAL FEATURES

The amplifier is completely stable when connected to any loudspeaker system or to any reactive load. The MC 50 has special circuits to prevent damage by short circuit or open circuit of the output loads, or by any amount of output impedance mismatch.

Thermal cutouts are mounted on the output transistor heat sinks to provide protection in the event of inadequate ventilation.

#### SEMICONDUCTOR COMPLEMENT:

12 Silicon Transistors  
12 Silicon Rectifiers and Diodes

SIZE: 5½ inches high, 8 inches wide, 12½ inches deep.

CHASSIS: Chrome and black.

isn't it nice to  
know McIntosh has all  
the power you'll  
ever need!

Ceretti

# MA 5100 "…OFFERS THE KIND OF PERFORMANCE ONCE ASSOCIATED ONLY WITH SEPARATE PREAMPS AND POWER AMPS."

## SPECIFICATIONS

The MA 5100 delivers McIntosh performance and quality in a combination solid state preamplifier and solid state power amplifier.

There are 51 solid state devices used in the MA 5100. The preamplifier section uses 16 transistors. The power amplifier uses 18 transistors. An additional 17 solid state devices, diodes, zener diodes, and rectifiers are used.

The stereo preamplifier has the lowest hum and noise of any combination unit. The square wave rise time is 3 microseconds.

The MA 5100 will deliver 45 watts per channel with both channels operating. This is RMS continuous power. Music is reproduced accurately. There is no fuzziness. At full 45 watts power output, distortion is less than 1/4 of 1% from 20 Hz to 20,000 Hz. Distortion is reduced as power is reduced. Here is adequate power to give you the sound of real live music in your home.

The silicon rectifier power supply gives instant voltage to the amplifier when needed. Recovery from the loudest musical passage is immediate. Your music sounds alive and thrilling played through the MA 5100. It is the perfect answer for the owner who wants the best in a power amplifier and the best in a preamplifier in the smallest space.

### POWER OUTPUT:

45 watts RMS continuous per channel with both channels operating into 4 ohm or 8 ohm loads  
30 watts RMS continuous per channel with both channels operating into 16 ohm loads

**HARMONIC DISTORTION:** Less than 0.25% at rated power output from 20 to 20,000 Hz with both channels operating

**INTERMODULATION DISTORTION:** Less than 0.25% for any combination of frequencies from 20 to 20,000 Hz if instantaneous peak power is 80 watts per channel or less into 4 or 8 ohm loads or 60 watts per channel or less into 16 ohm loads with both channels operating

### FREQUENCY RANGE:

At rated output both channels operating:  $\pm 0.5$  dB  
20 Hz through 20,000 Hz  
At reduced output, both channels operating:  $+0.5$  -3 dB 12 Hz through 80,000 Hz

**OUTPUT IMPEDANCE:** 4 ohms, 8 ohms, 16 ohms. No impedance switching required

**INTERNAL IMPEDANCE/DAMPING:** Less than .15 ohms; damping factor greater than 100

**SPEAKER SWITCH:** Speakers ON or OFF for headphone listening, indicator lamp lights in "Speaker OFF" position

**HEADPHONE JACKS:** Two, for low impedance headphones

### SEMICONDUCTOR COMPLEMENT:

34 silicon transistors  
23 silicon rectifiers and diodes  
2 silicon bilateral switches  
2 triacs  
Total semiconductors: 61

**POWER REQUIREMENTS:** 117 volts, AC, 50-60 Hz, 70 watts at zero signal output, 200 watts at rated output

**SIZE:** Front panel, 16 inches wide by 5 1/4 inches high; chassis, 15 inches wide by 4 1/2 inches high by 1 1/2 inches deep, including connectors. Clearance in front of mounting panel including knobs, 1 1/2 inches

**FINISH:** Front Panel: Anodized gold and black; Chassis: Chrome and black



\$449.00 Cabinet \$29.00

# FM STATION DIRECTORY

## 88.1

WAUP Akron, Oh.  
KTEC Klamath Falls, Or.  
KCDR-FM Cedar City, Ut.  
KUCR Riverside, Ca.  
KWCR-FM Ogden, Ut.  
WBCR-FM Beloit, Wi.  
WSBF-FM Clemson, S.C.  
WNAS New Albany, In.  
KDPS Des Moines, Ia.  
WECW Elmira, N.Y.  
WETN Wheaton, Il.  
KLON Long Beach, Ca.  
KVOK Honolulu  
KTJO-FM Ottawa, Ks.  
WHPR Highland Park, Mi.  
KHBL Plainview, Tx.  
KCSC Edmond, Ok.  
WKNC-FM Raleigh, N.C.  
WRST-FM Oshkosh, Wi.  
WVBC Bethany, W.V.  
KHPC Brownwood, Tx.  
WRHS Park Forest, Il.  
KNER Dallas  
WSMC-FM Collegedale, Tn.  
KTCF Cedar Falls, Ia.  
WPKN Bridgeport, Ct.  
WSPE Springville, N.Y.  
WGSU Geneseo, N.Y.  
WTBS Cambridge, Ma.  
WNTH Winnetka, Il.  
WBGU Bowling Green, Oh.  
KSDB-FM Manhattan, Ks.  
KANG Angwin, Ca.  
KUNR Reno  
WESU Middleton, Ct.  
WFDD-FM Winston-Salem, N.C.  
WMUL Huntington, W.V.  
KSOZ Point Lookout, Mo.  
WCWP Brookville, N.Y.  
KUFM Missoula, Mt.  
WEMU Ypsilanti, Mi.

## 88.3

WKOV Kankakee, Il.  
WGEV Beaver Falls, Pa.  
WHWC Colfax, Wi.  
KSDS San Diego  
WBGU Newark, N.J.  
WBWC Berea, Oh.  
KEMR Loma Linda, Ca.  
WAER Syracuse, N.Y.  
KRVS Lafayette, La.  
WIAA Interlochen, Mi.  
WHOV Hampton, Va.

## 88.5

KPLU Tacoma, Wa.  
WFCR Amherst, Ma.  
WMUB Oxford, Oh.  
KFCA Phoenix  
KEDC-FM Northridge, Ca.  
WMTH Park Ridge, Il.  
WAMU-FM Washington  
KVOF-FM El Paso  
KXKX San Francisco  
KMSM Rolla, Mo.  
WHFH Flossmoor, Il.

## 88.7

WHA-FM Madison, Wi.  
KSTE Emporia, Ks.  
WOBC-FM Oberlin, Oh.  
WBFO Buffalo, N.Y.  
WVHC Hempstead, N.Y.  
KBGL Pocatello, Id.  
WICR Indianapolis  
KJLH Franklin Lakes, N.J.

WRSE-FM Elmhurst, Il.  
WHCL-FM Clinton, N.Y.  
KSPC Claremont, Ca.  
WGVE Gary, In.

## 88.9

KUNF La Canada, Ca.  
WCSU Wilberforce, Oh.  
KBYU-FM Provo, Ut.  
WXPB Philadelphia  
WERS Boston  
KOKH Oklahoma City  
KERS Sacramento, Ca.  
WSND-FM Notre Dame, In.

## 89.1

KUOR-FM Redlands, Ca.  
KXLU Los Angeles  
WUSO Springfield, Oh.  
KUMD-FM Duluth, Mn.  
(U.N.) New York  
KMUW Wichita, Ks.  
KANW Albuquerque, N.M.  
KCUI Pella, Ia.  
KWAR Waverly, Ia.  
WAPS Akron, Oh.  
WVCR-FM Loudonville, N.Y.  
KTCU-FM Ft. Worth

## 89.3

WGSU Geneseo, N.Y.  
WFPL Louisville, Ky.  
WHKW Chilton, Wi.  
WOAK Royal Oak, Mi.  
WRTC-FM Hartford, Ct.  
WHHS Havertown, Pa.  
WNUR Evanston, Il.  
KPCS Pasadena, Ca.  
WCSQ Central Square, N.Y.  
KPFB Berkeley, Ca.  
KCUR-FM Kansas City, Mo.  
KRRR Portland, Or.  
WCMO Marietta, Oh.  
WFCI Franklin, In.  
WSAE Spring Arbor, Mi.  
WGRN Greenville, Il.  
WSLU Canton, N.Y.

## 89.5

KMFA Austin, Tx.  
WVUR Valparaiso, In.  
KFJC Los Altos, Ca.  
WSOU South Orange, N.J.  
KMSM Rolla, Mo.  
WAMF Amherst, Ma.  
KWGS Tulsa, Ok.  
KEBS San Diego

## 89.7

WKSU-FM Kent, Oh.  
WMUH Allentown, Pa.  
WOBC-FM Oberlin, Oh.  
WOSU-FM Columbus, Oh.  
WTSR Trenton, N.J.  
KSDA La Sierra, Ca.  
WGBH-FM Boston  
WUSF Tampa, Fl.  
WISU Terre Haute, In.  
WGLS-FM Glassboro, N.J.  
KRNL-FM Mt. Vernon, Ia.  
WUWM Milwaukee  
WNIC DeKalb, Il.  
KNHS Torrance, Ca.  
CJUS-FM Saskatoon, Sask.

## 89.9

KCRW Santa Monica, Ca.  
WSCB Springfield, Ma.  
KWBU Waco, Tx.  
KNBU Baldwin, Ks.  
WHSB Brule, Wi.  
WUSV Scranton, Pa.  
WKCR-FM New York  
WUSC-FM Columbia, S.C.  
KEWC-FM Cheney, Wa.  
WUAG Greensboro, N.C.

## 90.1

KJSR-FM Collegeville, Mn.  
KUNM Albuquerque  
WRPN-FM Ripon, Wi.  
WRUR-FM Rochester, N.Y.  
WRUV Burlington, Vt.  
WRTI-FM Philadelphia  
WABE Atlanta  
WMBI-FM Chicago  
WOI-FM Ames, Ia.  
KUER Salt Lake City  
WIAN Indianapolis  
WGTB-FM Washington  
WNMR Marquette, Mi.  
WCDR-FM Cedarville, Oh.  
WRVG Georgetown, Ky.  
WCMU-FM Mt. Pleasant, Mi.  
KZSU Sanford, Ca.  
KBVR Corvallis, Or.

## 90.3

KSYM-FM San Antonio  
WHPH Hanover, N.J.  
WVUR-FM Valparaiso, In.  
WHSB Floral Park, N.Y.  
WBOE Cleveland  
WAMC Albany, N.Y.  
WHLA Holmen, Wi.  
KCMR San Francisco  
KPNW Eugene, Or.  
WPLN Nashville  
WUNH Durham, N.H.  
WARC Meadville, Pa.

## 90.5

WKAR-FM East Lansing, Mi.  
WHRW Binghamton, N.Y.  
KSHS Colorado Springs  
KHSC Arcata, Ca.  
WCBE Columbus, Oh.  
WFOS Chesapeake, Va.  
WHUS Storrs, Ct.  
WVKC Galesburg, Il.  
KMSU Mankato, Mn.  
WJRH Easton, Pa.  
WVBU-FM Lewisburg, Pa.  
KWWC-FM Columbia, Mo.  
WSUP Platteville, Wi.

## 90.7

WFUV New York  
WHAD Delafield, Wi.  
KPFC Los Angeles  
WPSR Evansville, In.  
WMHC South Hadley, Ma.  
KUT-FM Austin, Tx.  
WBST Muncie, In.  
KSJS San Jose, Ca.  
WKTL Struthers, Oh.

## 90.9

WGUC Cincinnati  
WDRR Detroit  
WEPS Elgin, Il.  
WIRQ Rochester, N.Y.

WNAD-FM Norman, Ok.  
WUBR Boston  
KCSM San Mateo, Ca.  
WUHY-FM Philadelphia  
WILL-FM Urbana, Il.  
KCPS Tacoma, Wa.  
KCMW-FM Warrensburg, Mo.  
WVIK Rock Island, Il.  
KCSU-FM Fort Collins, Co.  
WBDG Indianapolis

## 91.1

WCBD Memphis  
WVSU-FM Birmingham, Al.  
WLFM Appleton, Wi.  
WBOR Brunswick, Me.  
WMCO New Concord, Oh.  
WKCS Knoxville, Tn.  
WSLN Delaware, Oh.  
WMUA Amherst, Ma.  
WTSC-FM Potsdam, N.Y.  
KPPS-FM Parsons, Ks.  
WDFM State College, Pa.  
KWAX Eugene, Or.  
WMCO New Concord, Oh.  
WGCS Goshen, In.  
WFMU East Orange, N.J.  
WSHU Fairfield, Ct.  
WRIU Kingston, R.I.  
KCSB-FM Santa Barbara, Ca.  
WMKY-FM Morehead, Ky.  
CJRT-FM Toronto

## 91.3

WCFM Williamstown, Ma.  
WDOM Providence, R.I.  
WSSU Superior, Wi.  
WTHS Miami  
KUOP Stockton, Ca.  
WBKY Lexington, Ky.  
WHJE Carmel, In.  
KUHF Houston  
KRCC Colorado Springs  
WWKS Macomb, Il.  
WHHI Highland, Wi.  
WSKS Wabash, In.  
WTJU Charlottesville, Va.  
WDUB Granville, Oh.  
KGTS College Place, Wa.  
WIPR-FM San Juan, P.R.  
KOCV Odessa, Tx.  
KBFL Buffalo, Mo.

## 91.5

KASC Conway, Ar.  
KASU Jonesboro, Ar.  
KFCA Phoenix  
KUMR Laramie, Wy.  
WLUR Lexington, Va.  
KUSC Los Angeles  
WMHS Morrison, Il.  
WBEZ Chicago  
WRPI Troy, N.Y.  
WOUB-FM Athens, Oh.  
WNYE Brooklyn, N.Y.  
KSLH St. Louis  
KRCC Colorado Springs  
WDUQ Pittsburgh  
WVHI Muncie, In.  
WYSO Yellow Springs, Oh.  
WYCS Yorktown, Va.  
WEVC Evansville, In.  
KANU Lawrence, Ks.  
WUNC Chapel Hill, N.C.  
WPRK Winter Park, Fl.  
WOBH Westerville, Oh.  
WFSU-FM Tallahassee, Fl.  
WRJR Lewiston, Me.  
WBJC Baltimore

WGRE Greencastle, In.  
WPHS Warren, Mi.  
KOAP-FM Portland, Or.  
KCWS-FM Ellensburg, Wa.  
WECI Richmond, In.  
WHMD Marinette, Wi.  
KUSU-FM Logan, Ut.

## 91.7

WUOA Tuscaloosa, Al.  
KALW San Francisco  
WEMC Harrisonburg, Va.  
WGLT Normal, Il.  
WSUW Whitewater, Wi.  
KSUI Iowa City  
WUOM Ann Arbor, Mi.  
KOSU-FM Stillwater, Ok.  
KUID Moscow, Id.  
WPWT Philadelphia  
KVTT Dallas  
WICB Ithaca, N.Y.  
KTOY Tacoma, Wa.  
KRWG University Park, N.M.  
WPAA Andover, Ma.

## 91.9

WAIC Springfield, Ma.  
WVSH Huntington, In.  
WGTS-FM Takoma Park, Md.  
WHRM Wausau, Wi.  
WUOT Knoxville, Tn.  
WSIU Carbondale, Il.  
WHSR-FM Winchester, Ma.  
KTXF-FM Lubbock, Tx.  
KVCR San Bernardino, Ca.  
KGTS College Place, Wa.  
WHCI Hartford City, In.  
WFPK Louisville, Ky.  
KRVM Eugene, Or.  
WNTI Hackettstown, N.J.  
KDSU Fargo, N.D.  
WETL South Bend, In.  
WMEB-FM Orono, Me.  
CFRC-FM Kingston, Ont.

## 92.1

WRLC Palmyra, Pa.  
WABF-FM Fairhope, Al.  
KDFM Walnut Creek, Ca.  
WEED-FM Rocky Mount, N.C.  
WBTR-FM Carrollton, Ga.  
WFNY Racine, Wi.  
WFMK Mt. Horeb, Wi.  
WCCW-FM Traverse City, Mi.  
WARD-FM Johnstown, Pa.  
WBPZ-FM Lock Haven, Pa.  
KOWN-FM Escondido, Ca.  
WERM Wapakoneta, Oh.  
WMNC-FM Morgantown, N.C.  
WKEI-FM Kewanee, Il.  
WTAU-FM College Station, Tx.  
WKUB Manitowoc, Wi.  
WMSG-FM Oakland, Md.  
WRUS-FM Russellville, Ky.  
KCNM Carlsbad, N.M.  
WJGA-FM Jackson, Ga.  
KFAY Fayetteville, Ar.  
WEIC-FM Charleston, Il.  
WMOR-FM Morehead, Ky.  
WPKE-FM Pikeville, Ky.  
KJIS-FM Sedalia, Mo.  
WJNC-FM Jacksonville, N.C.  
WBLR-FM Batesburg, S.C.  
WMBY-FM Myrtle Beach, S.C.  
KTXN-FM Victoria, Tx.

CKPC-FM Brantford, Ont.  
CKY-FM Winnipeg, Man.  
CFMQ-FM Regina, Sask.

## 92.3

KOTN-FM Pine Bluff, Ar.  
WCKW LaPlace, La.  
KFAC-FM Los Angeles  
KSJO-FM San Jose, Ca.  
WFLY Troy, N.Y.  
WOW-FM Omaha  
WDBO-FM Orlando, Fl.  
WHOM New York  
WIL-FM St. Louis  
WCAR-FM Detroit  
WLRJ Roanoke, Va.  
WYCA Hammond, In.  
WRRN Warren, Pa.  
WTTV-FM Bloomington, In.  
KNFM Midland, Tx.  
WSID-FM Baltimore  
KREX-FM Grand Junction, Co.  
WPRO-FM Providence, R.I.  
WCUY Cleveland Heights, Oh.  
WGWR-FM Asheboro, N.C.  
WCOL-FM Columbus, Oh.  
KJRG-FM Newton, Ks.  
KVEG-FM Las Vegas  
KRST Albuquerque, N.M.  
WDEF-FM Chattanooga  
WKBJ-FM Milan, Tn.

## 92.5

WZIP-FM Cincinnati  
KSYN Joplin, Mo.  
KQRS-FM Golden Valley, Mi.  
KXLS Midwest City, Ok.  
WFYN-FM Key West, Fl.  
KFKF-FM Bellevue, Wa.  
WQST Forest, Ms.  
WLBK-FM DeKalb, Il.  
WATR-FM Waterbury, Ct.  
KFBK-FM Sacramento, Ca.  
WMHE Toledo, Oh.  
WOMI-FM Owensboro, Ky.  
WBKV-FM West Bend, Wi.  
WRFL Winchester, Va.  
KRLD-FM Dallas  
WHAV-FM Haverhill, Ma.  
WESC-FM Greenville, S.C.  
WIFI Philadelphia  
WFAH-FM Alliance, Oh.  
WHNC-FM Henderson, N.C.  
KLVL-FM Pasadena, Tx.  
WBBF-FM Rochester, N.Y.  
WDLF-FM Panama City, Fl.  
KELO-FM Sioux Falls, S.D.  
CFQR-FM Montreal

## 92.7

WBI-FM Abingdon, Va.  
KACE-FM Riverside, Ca.  
WRAJ-FM Anna, Il.  
WLIR Garden City, N.Y.  
KJAZ Alameda, Ca.  
WNWC Arlington Heights, Il.  
KNJO Thousand Oaks, Ca.  
WBCO-FM Bucyrus, Oh.  
KJEF-FM Jennings, La.  
WMCF Stuart, Fl.  
WCER-FM Charlotte, Mi.  
WALL-FM Middletown, N.Y.  
WENY-FM Elmira, N.Y.  
WJSM Martinsburg, Pa.  
WDUX-FM Waupaca, Wi.  
CKSO-FM Sudbury, Ont.  
CFFM-FM-2 Clearwater, B.C.

## 92.9

KONG-FM Visalia, Ca  
WDSC-FM Dillon, S.C.  
WGKA-FM Atlanta  
KVOR-FM Colorado Springs  
KAKC-FM Tulsa, Ok.  
WVLK-FM Lexington, Ky.  
WBOS-FM Brookline, Ma.  
WSEI Olney, Il.  
KREM-FM Spokane, Wa.  
WWTU-FM Cadillac, Mi.  
KFYR-FM Bismarck, N.D.  
WBUFF Buffalo, N.Y.  
KGM-FM Bellingham, Wa.  
KITV San Antonio, Tx.  
WYZZ Wilkes-Barre, Pa.  
WCTM Eaton, Oh.  
KDKA-FM Pittsburgh  
KWBE-FM Beatrice, Nb.  
WNDU-FM South Bend, In.  
WGOV-FM Valdosta, Ga.  
WXYW Suffolk, Va.

## 93.1

KZAK Tyler, Tx.  
KOSO Patterson, Ca.  
KNX-FM Los Angeles  
WZAK Cleveland  
WKAT-FM Miami  
KORE-FM Springfield-Eugene, Or.  
WXRT Chicago  
WIBC-FM Indianapolis  
WFMM-FM Baltimore  
KNUJ-FM New Ulm, Mn.  
KGNC-FM Amarillo, Tx.  
WHYN-FM Springfield, Ma.  
KRVN-FM Lexington, Nb.  
WJBK-FM Detroit  
WAIR-FM Winston-Salem, N.C.  
WDDS-FM Syracuse, N.Y.  
WPAT-FM Paterson, N.J.  
KWNS-FM Pratt, Ks.

## 93.3

WFLS-FM Fredericksburg, Va.  
KECR El Cajon, Ca.  
WMMR Philadelphia  
WFLA-FM Tampa, Fl.  
WBEX-FM Chillicothe, Oh.  
WAKW Cincinnati  
WKYX-FM Paducah, Ky.  
CKMK Kansas City, Mo.  
KLEN-FM Kileen, Tx.  
WJTN-FM Jamestown, N.Y.  
KFMP Port Arthur, Tx.  
WBBW-FM Youngstown, Oh.  
KOIT San Francisco  
KSBY-FM San Luis Obispo, Ca.  
WBBO-FM Forest City, N.C.  
WQFM Milwaukee  
KBLE-FM Seattle  
KWDM Des Moines, Ia.  
WITN-FM Washington, N.C.  
WRLM Taunton, Ma.  
WJIG-FM Tullahoma, Tn.  
KFME Ft. Collins, Co.  
WMBD-FM Peoria, Il.  
WAWK-FM Kendallville, In.  
WDSU-FM New Orleans  
KWHO-FM Salt Lake City

## 93.5

KOYA Ontario, Ca.  
WYBR-FM Ithaca, N.Y.  
KKOP Redondo Beach, Ca.  
WVOX-FM New Rochelle, N.Y.  
WCST-FM Berkeley Springs, W.V.

WJJP Joliet, Il.  
KXJK-FM Forrest City, Ar.  
WKMO Kokomo, In.  
WAWR-FM Bowling Green, Oh.  
WSGM-FM Staunton, Va.  
WSWN-FM Belle Glade, Fl.  
KVWM-FM Show Low, Az.  
WVPO-FM Stroudsburg, Pa.  
KRMS-FM Osage Beach, Mo.  
KICS-FM Hastings, Nb.  
WKBL-FM Covington, Tn.

## 93.7

KCIM-FM Carroll, Ia.  
KBNO Houston  
WFCJ Miamisburg, Oh.  
KFRE-FM Fresno, Ca.  
KTBC-FM Austin, Tx.  
WLAE Hartford, Ct.  
WDEL-FM Wilmington, De.  
WMOP-FM Ocala, Fl.  
KCHV-FM Coachella, Ca.  
WJCD-FM Seymour, In.  
KDB-FM Santa Barbara, Ca.  
WCCM-FM Lawrence, Ma.  
WJFM Grand Rapids, Mi.  
WEKZ-FM Monroe, Wi.  
KCFM St. Louis  
WITA-FM San Juan  
KSEL-FM Lubbock, Tx.  
WBLK-FM DePew, N.Y.  
KPDQ-FM Portland, Or.  
WMVO-FM Mt. Vernon, Oh.  
WCM-FM Ashland, Ky.  
WFBC-FM Greenville, S.C.  
WKJF Pittsburgh  
WAYL Minneapolis  
WDAY-FM Fargo, N.D.  
KDNC-FM Spokane, Wa.

## 93.9

KBUY-FM Ft. Worth, Tx.  
KPOL-FM Los Angeles  
KUAM-FM Agana, Guam  
WCHN-FM Norwich, N.Y.  
WGOS Miami Beach, Fl.  
WRC-FM Washington  
WMEV-FM Marion, Va.  
WEBH Chicago  
KWPM-FM West Plains, Mo.  
WFMW-FM Madisonville, Ky.  
WCOU-FM Lewiston, Me.  
WBAG-FM Burlington-Graham, N.C.  
KSPI-FM Stillwater, Ok.  
WNYC-FM New York  
WMTM-FM Moultrie, Ga.  
KWLW San Angelo, Tx.  
KHVH-FM Honolulu  
CFMO-FM Ottawa  
CKLW-FM Windsor, Ont.

## 94.1

KMMK Little Rock, Ar.  
WKXI Smyrna, Ga.  
KERN-FM Bakersfield, Ca.  
WLXN Lexington, N.C.  
KOGO-FM San Diego  
KPFA Berkeley, Ca.  
KNEB-FM Scottsbluff, Nb.  
WMIX-FM Mt. Vernon, Il.  
KCKN-FM Kansas City, Mo.  
KDEF-FM Albuquerque, N.M.  
WPEX-FM Pensacola, Fl.  
KBGN-FM Caldwell, Id.  
KOWH-FM Omaha  
WHBC-FM Canton, Oh.  
WIBG-FM Philadelphia

WKOK-FM Sunbury, Pa.  
WHIM-FM Providence, R.I.  
WIBM-FM Jackson, Mi.  
WOAY-FM Oak Hill, W.V.  
WJBI Cincinnati  
KOL-FM Seattle  
WIAL Eau Claire, Wi.  
WGFA-FM Watseka, Il.  
KVII-FM Amarillo, Tx.  
KLVI-FM Beaumont, Tx.  
WVFM Lakeland, Fl.  
WTOC-FM Savannah, Ga.  
CBC-FM Toronto

## 94.3

WJVM Sterling, Il.  
KVFM San Fernando, Ca.  
WGHQ-FM Kingston, N.Y.  
KPIK-FM Colorado Springs  
KTBT Garden Grove, Ca.  
WGSM-FM Babylon, N.Y.  
WKBI-FM Ridgway, Pa.  
WTCA-FM Plymouth, In.  
WXTA Greencastle, In.  
KXXI Alamogordo, N.M.  
WYBC-FM New Haven, Ct.  
WMER Celina, Oh.  
WJLK-FM Asbury Park, N.J.  
WRMN-FM Elgin, Il.  
WPTN-FM Cookeville, Tn.  
WDEC-FM Americus, Ga.  
KNFB Nowata, Ok.  
WBOC-FM Salisbury, Md.  
KCLU-FM Rolla, Mo.  
WEHH-FM Elmira, N.Y.  
WCFL-FM Carbondale, Pa.  
WDBL-FM Springfield, Tn.  
KDLK-FM Del Rio, Tx.  
CKPR-FM Port Arthur, Ont.  
CJMS-FM Montreal  
CFRW-FM Winnipeg, Man.

## 94.5

KWMT-FM Ft. Dodge, Ia.  
WMUU-FM Greenville, S.C.  
WRWR-FM Port Clinton, Oh.  
KFLA-FM Scott City, Ks.  
KCIB-FM Fresno, Ca.  
WDAC Lancaster, Pa.  
WNCB-FM Daytona Beach, Fl.  
WJBL-FM Holland, Mi.  
WTMJ-FM Milwaukee  
KGAF-FM Gainesville, Tx.  
KLBK-FM Lubbock, Tx.  
WLAP-FM Lexington, Ky.  
KWKH-FM Shreveport, La.  
WHDH-FM Boston  
KOOL-FM Phoenix  
WLOE-FM Leaksville, N.C.  
WNFM Naples, Fl.  
WRVA-FM Richmond, Va.  
KWOC-FM Poplar Bluff, Mo.  
KELT-FM Harlingen, Tx.  
WEBR-FM Buffalo, N.Y.  
WSYR-FM Syracuse, N.Y.  
WWSW-FM Pittsburgh  
KLEF Houston  
WCEN-FM Mt. Pleasant, Mi.  
WTTM-FM Trenton, N.J.  
KJCK-FM Junction City, Ks.  
WLRW Champaign, Il.  
KBMC Eugene, Or.  
WAPI-FM Birmingham, Al.  
KSMB Lafayette, La.  
KSTP-FM St. Paul  
CKGB-FM Timmins, Ont.

## 94.7

KSHE Crestwood, Mo.  
WNGO-FM Mayfield, Ky.  
WPTF-FM Raleigh, N.C.  
WLS-FM Chicago  
KPAK El Paso, Tx.

WJMD Bethesda, Md.  
WDOV-FM Dover, De.  
WMAS-FM Springfield, Ma.  
KMET Los Angeles  
WHFI Birmingham, Mi.  
WFBM-FM Indianapolis  
KTTS-FM Springfield, Mo.  
WVKO-FM Columbus, Oh.  
WFME Newark, N.J.  
WBYM Bayamon, P.R.  
WWHO Jackson, Ms.  
WTOC-FM Savannah, N.D.  
KWFR-FM San Angelo, Tx.

## 94.9

WGIL-FM Galesburg, Il.  
WDBN Medina, Oh.  
WMTW-FM Mt. Washington, N.H.  
WOFM Greeneville, Tn.  
KFMG Des Moines, Ia.  
KSFR San Francisco  
WSAB Mt. Carmel, Il.  
WAEZ Miami Beach, Fl.  
WAVO-FM Decatur, Ga.  
WCNW-FM Fairfield, Oh.  
KLRO San Diego  
KCMO-FM Kansas City, Mo.  
KCLE-FM Cleburne, Tx.  
WWCF Greenfield Twp., Wi.  
KUOW Seattle  
WDBJ-FM Roanoke, Va.  
WVIC-FM East Lansing, Mi.  
WMSF Harrisburg, Pa.  
WOCB-FM West Yarmouth, Ma.  
KGEN-FM Tulare, Ca.  
KBIM-FM Roswell, N.M.  
CJCB-FM Sydney, N.S.  
CKQS-FM Oshawa, Ont.

## 95.1

WNSA Huntsville, Al.  
WIST-FM Charlotte, N.C.  
KNTD Wichita Falls, Tx.  
KUDU-FM Ventura, Ca.  
WGGC Glasgow, Ky.  
WGHF Brookfield, Ct.  
WJAX-FM Jacksonville, Fl.  
WRNJ Atlantic City  
WPTH Ft. Wayne, In.  
KTRM-FM Beaumont, Tx.  
WCHA-FM Chambersburg, Pa.  
WTMA-FM Charleston, S.C.  
WGPA-FM Bethlehem, Pa.  
WMIV So. Bristol Twp., N.Y.  
WRBS Baltimore  
WFBF Flint, Mi.  
WLIP-FM Kenosha, Wi.  
WEDA-FM Grove City, Pa.  
KAMS Mammoth Spring, Ar.  
KWOA-FM Worthington, Mi.  
KCYS Richland, Wa.  
(CP for 274)  
CBF-FM Montreal

## 95.3

KNOF St. Paul  
WHRB-FM Cambridge, Ma.  
WINA-FM Charlottesville, Va.  
KIFG-FM Iowa Falls, Ia.  
KFMQ Lincoln, Nb.  
KBOY-FM Medford, Or.  
KDDD-FM Dumas, Tx.  
KFNE Big Spring, Tx.  
KLGS Los Gatos, Ca.  
WLKR-FM Norwalk, Oh.  
WCNT-FM Centralia, Il.  
WSIV-FM Pekin, Il.  
WTTT-FM Towanda, Pa.  
WJPA-FM Washington, Pa.  
WBHT-FM Brownsville, Tn.  
CHML-FM Hamilton, Ont.

## 95.5

KRFM Phoenix  
WDOC-FM Prestonsburg, Ky.  
WCLV Cleveland  
KABC-FM Los Angeles  
KAIM-FM Honolulu  
WSAU-FM Wausau, Wi.  
KSPL-FM Diboll, Tx.  
KZFM Corpus Christi, Tx.  
WDHF Chicago  
WFMS Indianapolis  
KAZZ Austin, Tx.  
WBRU Providence, R.I.  
WJAC-FM Johnstown, Pa.  
WPGC-FM Morningside, Md.  
KXL-FM Portland, Or.  
WLDL Detroit  
KGNO-FM Dodge City, Ks.  
KRMG-FM Tulsa, Ok.  
WHOK-FM Lancaster, Oh.  
WHPE-FM High Point, N.C.  
KEFC Waco, Tx.  
WABC-FM New York  
KNEV Reno  
WROW-FM Albany, N.Y.  
WGAU-FM Athens, Ga.  
WLWM Nashville  
KMYR Denver  
KSNM Sante Fe, N.M.

## 95.7

KLIZ-FM Brainerd, Mn.  
WDEA-FM Ellsworth, Me.  
WFLN-FM Philadelphia  
KKHI-FM San Francisco  
WKLV Grand Rapids, Mi.  
WBMI Hartford-Meriden, Ct.  
WTAR-FM Norfolk, Va.  
WFLO-FM Farmville, Va.  
WPTW-FM Piqua, Oh.  
KWWR-FM Mexico, Mo.  
WCRA-FM Effingham, Il.  
KOFO-FM Ottawa, Ks.  
KMYO-FM Little Rock, Ar.  
WWMY New Orleans  
WTSB-FM Lumberton, N.C.  
WKBR-FM Manchester, N.H.  
WTBC-FM Tuscaloosa, Al.  
WHDL-FM Olean, N.Y.  
WFID Rio Piedras, P.R.  
WMIL-FM Milwaukee  
KIXI-FM Seattle  
KIKK-FM Houston  
WTAN-FM Clearwater, Fl.  
WXRC Hickory, N.C.  
WDMJ-FM Marquette, Mi.  
KHOB-FM Hobbs, N.M.  
KDHI-FM Twenty-Nine Palms, Ca.

## 95.9

KFRW Quincy, Ca.  
KAVI-FM Rocky Ford, Co.  
KEZR Anaheim, Ca.  
WIFN Franklin, In.  
WDRN Norwalk, Ct.  
WKKD-FM Aurora, Il.  
WISZ-FM Glen Burnie, Md.  
WLOW-FM Aiken, S.C.  
WDXE-FM Lawrenceburg, Tn.  
KARL-FM Carlsbad, Ca.  
WKUZ Wabash, In.  
KUWS-FM Newton, Ia.  
WMCB-FM Michigan City, In.  
KRSL-FM Russell, Ks.  
WVOS-FM Liberty, N.Y.  
WMRF-FM Lewistown, Pa.  
WMTN-FM Morristown, Tn.  
KXIT-FM Dahlart, Tx.  
WCWC-FM Ripon, Wi.

WDOR-FM Sturgeon Bay, Wi.  
WFTM-FM Maysville, Ky.  
CJFM-FM Montreal  
CHFM-FM Calgary, Alta.  
CFPL-FM London, Ont.

## 96.1

WEST-FM Easton, Pa.  
KLCN-FM Blytheville, Ar.  
WGCB-FM Red Lion, Pa.  
WKTZ-FM Jacksonville, Fl.  
WKLS Atlanta  
KATY-FM San Luis Obispo, Ca.  
WSTO Owensboro, Ky.  
KROS-FM Clinton, Ia.  
KZEL-FM Eugene, Or.  
WSRS Worcester, Ma.  
WBCM-FM Bay City, Mi.  
WKIX-FM Raleigh, N.C.  
WGLM Richmond, In.  
KZUN-FM Opportunity, Wa.  
KOIL-FM Omaha  
WHTC-FM Holland, Mi.  
KOCY-FM Oklahoma City  
WLPR Mobile, Al.  
KID-FM Idaho Falls, Id.  
KMFM San Antonio, Tx.  
KWOA-FM Worthington, Mi.  
KCRF-FM Sacramento, Ca.  
WBNY-FM Buffalo, N.Y.  
WOHS-FM Shelby, N.C.  
WTAE-FM Pittsburgh  
CKX-FM Brandon, Man.  
CHNS-FM Halifax, N.S.

## 96.3

WGBS Miami  
WKTN-FM Kenton, Oh.  
WSLI-FM Jackson, Ms.  
WMTS-FM Murfreesboro, Tn.  
KRKD-FM Los Angeles  
WTOP-FM Washington  
WBBM-FM Chicago  
WQXR-FM New York  
WJMC-FM Rice Lake, Wi.  
WMVA-FM Martinsville, Va.  
KBFM Lubbock, Tx.  
WJR-FM Detroit  
WBAP-FM Ft. Worth  
WTVN-FM Columbus, Oh.  
KHFM Albuquerque, N.M.  
CKWS-FM Kingston, Ont.

## 96.5

WCRT-FM Birmingham, Al.  
WLWM Nashville  
WQMS Washington, Oh.  
KADI St. Louis  
KFMX San Diego  
KRON-FM San Francisco  
KKFM Colorado Springs  
WTIC-FM Hartford, Ct.  
WHOO-FM Orlando, Fl.  
KXTR Kansas City, Mo.  
WPEL-FM Montrose, Pa.  
WFMR Milwaukee  
KLSN Seattle  
WBCI-FM Williamsburg, Va.  
KBCL-FM Shreveport, La.  
KXYZ-FM Houston  
WDOD-FM Chattanooga  
WHAT-FM Philadelphia  
WCUE-FM Akron, Oh.  
WCMF Rochester, N.Y.  
WEWO-FM Laurinburg, N.C.  
KIFM Bakersfield, Ca.  
KRAV Tulsa, Ok.

## 96.7

KANS-FM Larned, Ks.  
WORX-FM Madison, In.

KWIZ-FM Santa Ana, Ca.  
WSTC-FM Stamford, Ct.  
WFOB-FM Fostoria, Oh.  
WCOH-FM Newnan, Ga.  
WJOL-FM Joliet, Il.  
WRXO-FM Roxboro, N.C.  
KCAL-FM Redlands, Ca.  
KOZE-FM Lewiston, Id.  
WLOI-FM LaPorte, In.  
WRSC-FM State College, Pa.  
WCSM-FM Celina, Oh.  
KGVW-FM Belgrade, Mt.  
KDLR-FM Devils Lake, N.D.  
KBHS-FM Hot Springs, Ar.  
WFSC-FM Franklin, N.C.  
KOBH-FM Hot Springs, S.D.  
WLUV-FM Loves Park, Il.  
WAZY-FM Lafayette, In.  
WAOV-FM Vincennes, In.  
WLBj-FM Bowling Green, Ky.  
WSEK Somerset, Ky.  
WHAG-FM Halfway, Md.  
WSEL-FM Pontotoc, Ms.  
WILE-FM Cambridge, Oh.  
WCRS-FM Greenwood, S.C.  
WMKC Oshkosh, Wi.  
WHLR Sauk City, Wi.  
CHYM-FM Kitchener, Ont.

## 96.9

KMEQ-FM Phoenix  
KQIP Odessa, Tx.  
KSFM Sacramento, Ca.  
WDBM-FM Statesville, N.C.  
WOPI-FM Bristol, Tn.  
KRIT Clarion, Iowa  
WGR-FM Buffalo, N.Y.  
WLBH-FM Mattoon, Il.  
WCSC-FM Charleston, S.C.  
WLOA-FM Braddock, Pa.  
WPAF-FM Paducah, Ky.  
KALB-FM Alexandria, La.  
KMBY-FM Monterey, Ca.  
WXHR-FM Boston  
WLAV-FM Grand Rapids, Mi.  
WLAN-FM Lancaster, Pa.  
WAXO Kenosha, Wi.  
WEQR Goldsboro, N.C.  
WFPF-FM Atlantic City  
WRSF Decatur, Al.  
WINK-FM Ft. Meyers, Fl.  
CKVL-FM Verdun, Que.

## 97.1

KCJB-FM Minot, N.D.  
WCOW-FM Sparta, Wi.  
KGBS-FM Los Angeles  
WASH Washington  
KFJZ-FM Ft. Worth  
KLUB-FM Salt Lake City  
WWQT Gainesville, Ga.  
WNIB Chicago  
WNNR-FM New Orleans  
WABI-FM Bangor, Me.  
WWJ-FM Detroit  
KWFM Minneapolis  
WNBC-FM New York  
WMPS-FM Memphis  
WBNS-FM Columbus, Oh.  
KORK-FM Las Vegas  
KPFM Portland, Or.  
WREO-FM Ashtabula, Oh.  
WQMG Greensboro, N.C.  
WVSL-FM Shelbyville, In.  
KURL-FM Billings, Mt.  
CJBQ-FM Belleville, Ont.  
CKOK-FM Penticton, B.C.

## 97.3

WMVB-FM Millville, N.J.  
KEAR San Francisco

KRNW Boulder, Co.  
WIOD-FM Miami  
WKBC-FM North Wilkesboro, N.C.  
KUPK-FM Garden City, Ks.  
KPLA Plainview, Tx.  
WGH-FM Newport News, Va.  
WISN-FM Milwaukee  
WMGR-FM Bainbridge, Ga.  
KDMI Des Moines, Ia.  
WROY-FM Carmi, Il.  
WIBW-FM Topeka, Ks.  
WBSM-FM New Bedford, Ma.  
WKWK-FM Wheeling, W. Va.  
WHCU-FM Ithaca, N.Y.  
KTNT-FM Tacoma, Wa.  
WHP-FM Harrisburg, Pa.  
KEEZ San Antonio, Tx.  
KSEA San Diego  
WKJG-FM Ft. Wayne, In.

## 97.5

WHLF-FM South Boston, Va.  
KPOI-FM Honolulu  
KTMS-FM Santa Barbara, Ca.  
KOYL-FM Odessa, Tx.  
WEPM-FM Martinsburg, W. Va.  
WXKL Winter Haven, Fl.  
KOCW Tulsa, Ok.  
KDUO Riverside, Ca.  
WALK-FM Patchogue, N.Y.  
WORA-FM Mayaguez, P.R.  
WCCV-FM Charlottesville, Va.  
WROK-FM Rockford, Il.  
WDWS-FM Champaign, Il.  
WKAZ-FM Charleston, W. Va.  
KAYD Beaumont, Tx.  
WAKR-FM Akron, Oh.  
WTOA Trenton, N.J.  
WJIM-FM Lansing, Mi.  
KNXR Rochester, Mn.  
KSJT San Angelo, Tx.  
WHAS-FM Louisville, Ky.  
CJOB-FM Winnipeg, Man.

## 97.7

WKLF-FM Clanton, Al.  
WBBA-FM Pittsfield, Il.  
WKEU-FM Griffin, Ga.  
WTGN Lima, Oh.  
WFST-FM Caribou, Me.  
WBET-FM Brockton, Ma.  
WBUT-FM Butler, Pa.  
KCVR-FM Lodi, Ca.  
WOXR Oxford, Oh.  
KPGM Los Altos, Ca.  
KWHP Edmond, Ok.  
WFOY-FM St. Augustine, Fl.  
WROM-FM Rome, Ga.  
WIZZ-FM Streator, Il.  
KNOC-FM Natick, Mass.  
KFBF Waynesville, Mo.  
WVSC-FM Somerset, Pa.  
WNRG-FM Grundy, Va.  
CKTB-FM St. Catharines, Ont.  
CKWM-FM Kentville, N.S.  
CKGM-FM Montreal

## 97.9

KDVR Sioux City, Ia.  
WSDM Chicago  
KMJ-FM Fresno, Ca.

KNOB Long Beach, Ca.  
WWOS Palm Beach, Fl.  
WPEG Concord, N.C.  
WSIX-FM Nashville  
WAFM Anderson, In.  
KUDD-FM Tempe, Az.  
WLOB-FM Portland, Me.  
WBAL-FM Baltimore  
WAZL-FM Hazelton, Pa.  
WMZK Detroit  
WSPT-FM Stevens Point, Wi.  
KFMV Eugene, Or.  
KFMK Houston  
WFAA-FM Dallas  
WCOS-FM Columbia, S.C.  
WEVD-FM New York  
WROC-FM Rochester, N.Y.  
KBOI-FM Boise, Idaho  
WNCI Columbus-Worthington, Oh.  
WXTD Grand Rapids, Mi.  
KFH-FM Wichita, Ks.  
KFNW-FM Fargo, N.D.  
KOYL-FM Odessa, Tx.

## 98.1

KHAK-FM Cedar Rapids, Ia.  
KABL-FM San Francisco  
KTAL-FM Texarkana, Tx.  
WBOB-FM Galax, Va.  
KDIG San Diego  
WNBX Andalusia, Al.  
WFBG-FM Altoona, Pa.  
WTOF Canton, Oh.  
WBFM Seneca, S.C.  
KOSE-FM Osceola, Ar.  
WNBH-FM New Bedford, Ma.  
WSAM-FM Saginaw, Mi.  
KCJC Kansas City, Ks.  
KRCH St. Louis  
WNBH-FM Binghamton, N.Y.  
WFNC-FM Fayetteville, N.C.  
WISM-FM Madison, Wi.  
WRAY-FM Princeton, In.  
KHQ-FM Spokane, Wa.  
KING-FM Seattle  
WCAU-FM Philadelphia  
WTVR-FM Richmond, Va.  
CHFI-FM Toronto  
CKUA-FM Edmonton, Alta.  
CHRC-FM Quebec

## 98.3

WJAT-FM Swainsboro, Ga.  
KHFI-FM Austin, Tx.  
KORA-FM Bryan, Tx.  
KBOB West Covina, Ca.  
WCNA-FM Scottsboro, Al.  
WZFM Charles Town, W.V.  
WZMF Menomonee Falls, Wi.  
WLAD-FM Danbury, Ct.  
WMLS-FM Sylacauga, Al.  
WHAI-FM Greenfield, Ma.  
WPRS-FM Paris, Il.  
WCTC New Brunswick, N.J.  
WRSV Skokie, Il.  
WTNC-FM Thomasville, N.C.  
WHUB-FM Cookeville, Tn.  
WKTN-FM Kenton, Oh.  
WJMK Plainfield, In.  
WOLI Ottawa, Il.  
WARU-FM Peru, In.  
WLNH-FM Laconia, N.H.  
WLGW-FM Logan, Oh.  
KBFM-FM Spearman, Tx.  
CFFM-FM Kamloops, B.C.  
CBW-FM Winnipeg, Man.  
CKLC-FM Kingston, Ont.

## 98.5

KLUC-FM Las Vegas  
KRPB San Jose, Ca.  
KFML-FM Denver  
WELL-FM Freeport, Il.  
KQXX McAllen, Tx.  
WSB-FM Atlanta  
WANG Coldwater, Mi.  
KXRR Sacramento, Ca.  
WPRM-FM San Juan  
WRKO-FM Boston  
WJGS Houghton Lake, Mi.  
KTIS-FM Minneapolis  
WAEF-FM Cincinnati  
WKNA Charleston, W.V.  
WKPT-FM Kingsport, Tn.  
KRSN-FM Los Alamos, N.M.  
WHLDFM Niagara Falls, N.Y.  
WYCR York-Hanover, Pa.  
WBRE-FM Wilkes-Barre, Pa.  
WERE-FM Cleveland  
WDJR Oil City, Pa.  
KPAC-FM Port Arthur, Tx.  
WWOM-FM New Orleans  
KPOJ-FM Portland, Or.  
CFMS-FM Victoria, B.C.

## 98.7

KQWB-FM Moorehead, Mn.  
KCBH Los Angeles  
WNOR-FM Norfolk, Va.  
WQMV Vicksburg, Ms.  
WOLF-FM Washington  
WARN-FM Fort Pierce, Fl.  
WFMT Chicago  
KTAR-FM Phoenix  
KNUS Dallas  
WHOP-FM Hopkinsville, Ky.  
WWVA-FM Wheeling, W.V.  
WBFG Detroit  
KCPX-FM Salt Lake City  
WOR-FM New York  
WMDE Greensboro, N.C.  
WBEU-FM Beaufort, S.C.

## 98.9

KVMN Pueblo, Co.  
KBBX Seattle  
KBBS-FM San Francisco  
WBGW Tallahassee, Fl.  
KRNK-FM Kearney, Nb.  
WCME-FM Brunswick, Me.  
WHBF-FM Rock Island, Il.  
KCLO-FM Leavenworth, Ks.  
WFMI-FM Montgomery, Al.  
KBOA-FM Kennett, Mo.  
WPBS Philadelphia  
WTMB-FM Tomah, Wi.  
WHFM Rochester, N.Y.  
KYFM Oklahoma City  
WKBN-FM Youngstown, Oh.  
WSPA-FM Spartanburg, S.C.  
WJOY-FM Burlington, Vt.  
WERT-FM Van Wert, Oh.  
WJML-FM Petoskey, Mi.  
CFBC-FM St. John, N.B.  
CKRD-FM Red Deer, Alta.

## 99.1

KGVM-FM Idaho Falls  
WQIK-FM Jacksonville, Fl.  
KBBL Riverside, Ca.  
KXFM Santa Maria, Ca.  
WPMP-FM Pascagoula, Ms.  
WNHC-FM New Haven, Ct.  
WENC-FM Whiteville, N.C.  
KSCO-FM Santa Cruz, Ca.

WMAZ-FM Macon, Ga.  
WEND-FM Ebersburg, Pa.  
KWMO Odessa, Tx.  
WNAV-FM Annapolis, Md.  
WPLM-FM Plymouth, Ma.  
WSWM East Lansing, Mi.  
WKOP-FM Binghamton, N.Y.  
WEMP-FM Milwaukee  
WAHR Huntsville, Al.  
KFUO-FM Clayton, Mo.  
WAWZ-FM Zarephath, N.J.  
KODA-FM Houston  
WLSL-FM Roanoke, Va.  
WHIO-FM Dayton, Oh.  
WFRO-FM Fremont, Oh.  
WKJB-FM Mayaguez, P.R.  
WEDR Miami  
KMAG Fort Smith, Ar.  
WSWG Greenwood, Ms.

## 99.3

KFMN Abilene, Tx.  
KFGQ-FM Boone, Ia.  
WFTW-FM Fort Walton Beach, Fl.  
KFRN-FM Brownwood, Tx.  
KRIL El Dorado, Ar.  
WLPO-FM LaSalle, Il.  
WCMB-FM Harrisburg, Pa.  
WMFC-FM Monroeville, Al.  
KVLV-FM Fallon, Nv.  
WAKN-FM Aiken, S.C.  
KLOR-FM Ponca City, Ok.  
WDXL-FM Lexington, Tn.  
WSSV-FM Petersburg, Va.  
WCON-FM Cornelia, Ga.  
WSTR-FM Sturgis, Mi.  
WHMP-FM Northampton, Ma.  
KBTC-FM Houston, Mo.  
WSWW-FM Plattville, Wi.  
WNXT-FM Portsmouth, Oh.  
KPLT-FM Paris, Tx.  
WCEF-FM Parkersburg, W.V.  
CKLG-FM Vancouver, B.C.

## 99.5

KBNM Albuquerque, N.M.  
KWGO-FM Abernathy, Tx.  
WJBR Wilmington, De.  
KFMM Tucson, Az.  
WIVI-FM Christiansted, St. Croix, V.I.  
WDCX Buffalo, N.Y.  
KHOF Los Angeles  
WGAY Washington  
WTCX St. Petersburg, Fl.  
WBKW Beckley, W.V.  
WEFM Chicago  
WTAD-FM Quincy, Il.  
WSON-FM Henderson, Ky.  
KISS San Antonio, Tx.  
KXOL-FM Fort Worth  
WLLH-FM Lowell, Ma.  
WABX Detroit  
KHEN-FM Henryetta, Ok.  
KLEM-FM Le Mars, Ia.  
WLQF-FM Minneapolis  
KDEN-FM Denver  
WGAR-FM Cleveland  
WGFH Schenectady, N.Y.  
WMFR-FM High Point, N.C.  
WBAI New York  
WSMJ Greenfield, In.  
KPLC-FM Lake Charles, La.  
CJCA-FM Edmonton, Alta.

## 99.7

KNBR-FM San Francisco  
WOOF-FM Dothan, Al.

WMNI-FM Columbus, Oh.  
WQDC Midland, Mi.  
KWPC-FM Muscatine, Ia.  
WMC-FM Memphis  
WJAS-FM Pittsburgh  
WLTA-FM Atlanta  
KMBR Kansas City, Mo.  
WYFI Norfolk, Va.  
WKLO-FM Louisville, Ky.  
WLO-FM Frankfort, In.  
WRKB-FM Kannapolis, N.C.  
WMSR-FM Manchester, Tn.

## 99.9

KVOX-FM Moorehead, Mn.  
WHFB-FM Benton Harbor-St. Joseph, Mi.  
WKLR-FM Toledo, Oh.  
WWFM Erie, Pa.  
WKRG-FM Mobile, Al.  
KRFD Marysville, Ca.  
KFMW San Bernardino, Ca.  
KGUD-FM Santa Barbara, Ca.  
KTQM-FM Clovis, N.M.  
WJZZ Bridgeport, Ct.  
WKAK Kankakee, Il.  
KTSF-FM El Paso, Tx.  
KPEL-FM Lafayette, La.  
WEBQ-FM Harrisburg, Il.  
WACO-FM Waco, Tx.  
WTHI-FM Terre Haute, In.  
KAFM Salina, Ks.  
WVUD-FM Kettering, Oh.  
WLOS-FM Asheville, N.C.  
WKRT-FM Cortland, N.Y.  
WEAV-FM Plattsburgh, N.Y.  
KXLY-FM Spokane, Wa.  
KFAB-FM Omaha  
WVAF Charleston, W. Va.  
WCLO-FM Janesville, Wi.  
KISW Seattle  
WEXX-FM Easton, Pa.  
WFMD-FM Frederick, Md.  
WFQM San Juan, P.R.  
WVOG Boca Raton, Fl.  
KLUR Wichita Falls, Tx.  
KTCS-FM Fort Smith, Ar.  
WPGF-FM Burgaw, N.C.  
CKFM-FM Toronto

## 100.1

KVCW Bartlesville, Ok.  
WCRD Bluffton, In.  
WDEB Jamestown, Tn.  
WDKD-FM Kingstree, S.C.  
WKAI-FM Macomb, Il.  
WTCH-FM Shawano, Il.  
WMNB-FM North Adams, Ma.  
WFLT Franklin, Tn.  
WKNT-FM Kent, Oh.  
WLBR-FM Lebanon, Pa.  
WVAM-FM Altoona, Pa.  
WWOOD-FM Lynchburg, Va.  
KPWD Plentywood, Mt.  
WHBB-FM Selma, Al.  
KEFM Santa Rosa, Ca.  
KGRI-FM Henderson, Tx.  
WSIP-FM Paintsville, Ky.

## 100.3

KBER-FM San Antonio, Tx.  
KFOF-FM Los Angeles  
KLIR-FM Denver  
WFAN Washington  
WKIS-FM Orlando, Fl.  
WKOF Hopkinsville, Ky.  
WFMF Chicago  
WCNB-FM Connorsville, In.  
WHO-FM Des Moines, Ia.

WXUR-FM Media, Pa.  
KTOP-FM Topeka, Ks.  
WNSL-FM Laurel, Ms.  
WKNR-FM Dearborn, Mi.  
WCTS-FM Minneapolis  
WOKZ-FM Alton, Il.  
KOST Houston  
KEEN-FM San Jose, Ca.  
WVNI-FM Newark, N.J.  
WNOS-FM High Point, N.C.  
WCLT-FM Newark, Oh.  
KQFM Portland, Or.  
WMGW-FM Meadville, Pa.  
KBOX-FM Dallas  
WVNA-FM Tusculumbia, Al.  
KSL-FM Salt Lake City  
WPFM Portsmouth, N.H.  
WABA-FM Aguadilla, P.R.  
KPET-FM Lamesa, Tx.  
CFRN-FM Edmonton, Alta.

## 100.5

WHMA-FM Anniston, Al.  
KEBR Sacramento, Ca.  
WVOR Rochester, N.Y.  
WLDS-FM Jacksonville, Il.  
WOMP-FM Bellaire, Oh.  
WKEE-FM Huntington, W. Va.  
WLBG-FM Laurens, S.C.  
KIOO Oklahoma City  
WFIN-FM Findlay, Oh.  
WCMS-FM Norfolk, Va.  
WFKO Kokomo, In.  
CJIC-FM Sault Ste. Marie, Ont.  
CKOT-FM Tillsonburg, Ont.

## 100.7

WEEC Springfield, Oh.  
WITL-FM Lansing, Mi.  
WQXY-FM Baton Rouge  
WVTS Terre Haute, In.  
KFMB-FM San Diego  
WCLE-FM Cleveland, Tn.  
WLNA-FM Peekskill, N.Y.  
WATL-FM Tampa, Fl.  
WMJR Ft. Lauderdale, Fl.  
KGBI-FM Omaha  
WTRC-FM Elkhart, In.  
WTRF-FM Westminster, Md.  
KVEN-FM Ventura, Ca.  
WCOP-FM Boston  
WRJN-FM Racine, Wi.  
KIRO-FM Seattle  
WSVA-FM Harrisonburg, Va.  
WCMC-FM Wildwood, N.J.  
WFMZ Allentown, Pa.  
WFMA Rocky Mount, N.C.  
WHK-FM Cleveland  
WNUF New Kensington, Pa.  
WRSJ-FM Bayamon, P.R.  
KRSA-FM Salinas, Ca.  
WCOA-FM Pensacola, Fl.  
KIBS-FM Bishop, Ca.  
WGIG-FM Brunswick, Ga.  
KXIC-FM Iowa City  
KIMP-FM Mt. Pleasant, Tx.  
WEAU-FM Eau Claire, Wi.  
(CP on 283)  
CBM-FM Montreal

## 100.9

KSRT Tracy, Ca.  
WAKM Bedford, Pa.  
WNNT-FM Warsaw, Va.  
WABZ-FM Albermarle, N.C.  
KTIM-FM San Rafael, Ca.  
WCJM West Point, Ga.

WIFM Elkin, N.C.  
WPGA-FM Perry, Ga.  
WKLF-FM Clanton, Al.  
WKYK-FM Erlanger, Ky.  
WTOF-FM Marianna, Fl.  
WGLC-FM Mendota, Il.  
WBRN-FM Big Rapids, Mi.  
WBNO-FM Bryan, Oh.  
WKEY-FM Covington, Va.  
WRCO-FM Richland Center, Wi.  
CHEC-FM Lethbridge, Alta.  
CKCL-FM Truro, N. S.

## 101.1

KAOL-FM Carrollton, Mo.  
WMRY East St. Louis, Il.  
WFMH-FM Cullman, Al.  
KHJ-FM Los Angeles  
KAFI Auburn, Ca.  
WWDC-FM Washington  
WBAY-FM Green Bay, Wi.  
KTRH-FM Houston  
WRR-FM Dallas  
WMAQ-FM Chicago  
WGMR-FM Tyronne, Pa.  
WGIR-FM Manchester, N.H.  
WCAC Anderson, S.C.  
WRED Youngstown, Oh.  
KOIN-FM Portland, Or.  
KRMD-FM Shreveport, La.  
WXYZ-FM Detroit  
WKIC-FM Hazard, Ky.  
WBBB-FM Burlington-Graham, N.C.  
WCBS-FM New York  
WDVR Philadelphia  
WKYF-FM Greenville, Ky.  
WCKS Cocoa Beach, Fl.  
KLYX Memphis  
KJSK-FM Columbus, Nb.

## 101.3

KQTY Wichita, Ks.  
WVEC-FM Hampton, Va.  
WNYR-FM Rochester, N.Y.  
KPEN San Francisco  
WKCI Hamden, Ct.  
WKBB-FM Richmond, In.  
KTOD-FM Sinton, Tx.  
WFAU-FM Augusta, Me.  
WPBC-FM Richfield, Mn.  
WYON Grand Rapids, Mi.  
WNCO-FM Ashland, Oh.  
WGLA-FM Lancaster, Pa.  
WGBI-FM Scranton, Pa.  
WFIG-FM Sumter, S.C.  
KNED-FM McAlester, Ok.

## 101.5

WEOK-FM Poughkeepsie, N.Y.  
WBJH Trenton, N.J.  
WWPB Miami  
WYNR-FM Brunswick, Ga.  
KGB-FM San Diego  
KGEE-FM Bakersfield, Ca.  
WAYZ-FM Waynesboro, Pa.  
WBI-FM Marietta, Ga.  
WJBC-FM Bloomington, Il.  
WJEH-FM Gallipolis, Oh.  
WGNB St. Petersburg, Fl.  
WCSI-FM Columbus, In.  
WIBA-FM Madison, Wi.  
KAYL-FM Storm Lake, Ia.  
WFVA-FM Fredericksburg, Va.  
KETO-FM Seattle  
WCRQ Providence, R.I.  
WPIT-FM Pittsburgh  
WSPD-FM Toledo, Oh.  
WRAL-FM Raleigh, N.C.

WJCW-FM Johnson City, Tn.  
KTXR Springfield, Mo.  
WSBT-FM South Bend, In.  
KHEP-FM Phoenix  
WISA-FM Isabela, P.R.  
KLAW Lawton, Ok.  
KDOK-FM Tyler, Tx.  
CJBR-FM Rimouski, Que.

## 101.7

KACA Prosser, Wa.  
KTLQ-FM Tahlequah, Ok.  
WBAW-FM Barnwell, S.C.  
KLPW-FM Union, Mo.  
KSIB Creston, Ia.  
KTUX Livermore, Ca.  
WORM-FM Savannah, Tn.  
KBBM Hayward, Ca.  
WTAY-FM Robinson, Il.  
WLYN-FM Lynn, Ma.  
WKSJ-FM Jamestown, N.Y.  
WCOM-FM Urbana, Oh.  
WFLW-FM Monticello, Ky.  
WCNH-FM Quincy, Fl.  
WIXN-FM Dixon, Il.  
WBMP Elwood, In.  
KDLA-FM De Ridder, La.  
KLEA-FM Lovington, N.M.  
WHNR McMinnville, Tn.  
KSAM-FM Huntsville, Tx.  
WRAD-FM Radford, Va.  
WDMS-FM Lynchburg, Va.

## 101.9

KRYT-FM Colorado Springs  
WNES-FM Central City, Ky.  
KBTM-FM Jonesboro, Ar.  
KARM-FM Fresno, Ca.  
KUTE Glendale, Ca.  
WPPA-FM Pottsville, Pa.  
KFNB Oklahoma City  
WKRC-FM Cincinnati  
WCLM Chicago  
WGNC-FM Gastonia, N.C.  
WPIX-FM New York  
WJIV Cherry Valley  
Township, N.Y.  
WTOW-FM Baltimore  
WDET-FM Detroit  
WHYY-FM Montgomery, Al.  
KGRN Las Vegas  
KBOC Ogden, Ut.  
WVEM Springfield, Il.  
KNWS-FM Waterloo, Ia.  
KNOE-FM Monroe, La.  
WLDR-FM Traverse City,  
Mi.  
WAJR-FM Morgantown,  
W. Va.  
WRIG-FM Wausau, Wi.  
WLEO-FM Ponce, P.R.  
CFFM-FM-1 Savona, B.C.

## 102.1

KAMU Anchorage  
WAWA-FM Milwaukee  
WCRX Springfield, Ma.  
WDOK Cleveland  
KFWT-FM Fort Worth  
WDRM Decatur, Al.  
KMSC Clear Lake City, Tx.  
KUDE-FM Oceanside, Ca.  
KDFO San Francisco  
WSEV-FM Sevierville, Tn.  
WMUK Kalamazoo, Mi.  
WRNL-FM Richmond, Va.  
WDAF-FM Kansas City, Mo.  
WWMO-FM Reidsville, N.C.  
WIMA-FM Lima, Oh.  
WCED-FM DuBois, Pa.  
WFIL-FM Philadelphia  
WDAN-FM Danville, Il.  
CHIC-FM Brampton, Ont.

## 102.3

WPOS Holland, Oh.  
WMVG-FM Milledgeville,  
Ga.  
WTRW-FM Two Rivers, Wi.  
KLOV-FM Loveland, Co.  
WEFA Waukegan, Il.  
WBAB-FM Babylon, N.Y.  
WHYL-FM Carlisle, Pa.  
WHFS Bethesda, Md.  
KJLH Long Beach, Ca.  
KACA Prosser, Wa.  
WLOC-FM Munfordville, Ky.  
WLVP Franklin, N.J.  
WLRN Louisville, Ky.  
KCAB-FM Dardanelle, Ar.  
WYRL Melbourne, Fl.  
WXBM-FM Milton, Fl.  
WRGA-FM Rome, Ga.  
WTAS Crete, Il.  
WSAL-FM Logansport, In.  
WAGR-FM Lumberton, N.C.  
WDKN-FM Dickson, Tn.  
WIRJ-FM Humboldt, Tn.  
KTXJ-FM Jasper, Tx.  
WLJC Beattyville, Ky.  
WCBL-FM Benton, Ky.

## 102.5

WWWB-FM Jasper, Al.  
KATT Woodland, Ca.  
WSAF-FM Sarasota, Fl.  
WHIZ-FM Zanesville, Oh.  
WKTM N. Charleston, S.C.  
KHBR-FM Hillsboro, Tx.  
KSBW-FM Salinas, Ca.  
KSMA-FM Santa Maria, Ca.  
WCTW-FM New Castle, In.  
WNEM-FM Bay City, Mi.  
KTW-FM Seattle  
WIAC-FM San Juan, P.R.  
WCRB-FM Waltham, Ma.  
KNIX Phoenix  
WEFG Winchester, Va.  
WBEN-FM Buffalo, N.Y.  
KQV-FM Pittsburgh  
WHKP-FM Hendersonville,  
N.C.  
WRVB-FM Madison, Wi.  
WRFY-FM Reading, Pa.  
WJBO-FM Baton Rouge  
KWLM-FM Willmar, Mn.  
KOSY-FM Texarkana, Tx.

## 102.7

KAMU Anchorage  
KXQR Fresno, Ca.  
KRHM Los Angeles  
KCMS-FM Manitou Springs,  
Co.  
WBRB-FM Mount Clemens,  
Mi.  
WOPA-FM Oak Park, Il.  
WRAC-FM Williamsport,  
Pa.  
WLEC-FM Sandusky, Oh.  
KJEM-FM Oklahoma City  
WCAO-FM Baltimore  
WNEW-FM New York  
WPFR Terre Haute, In.  
CHLT-FM Sherbrooke, Que.

## 102.9

WGAN-FM Portland, Me.  
WOIA-FM Ann Arbor, Mi.  
WRBL-FM Columbus, Ga.  
WRIT-FM Milwaukee  
WHAL-FM Shelbyville, Tn.  
KPAT-FM Berkeley, Ca.  
WDRG-FM Hartford, Ct.  
WIVY-FM Jacksonville, Fl.

KEIR Dallas  
KQUE Houston  
WFUR-FM Grand Rapids,  
Mi.  
WSOY-FM Decatur, Il.  
WBLV-FM Springfield, Oh.  
WPIC-FM Sharon, Pa.  
WCUM-FM Cumberland,  
Md.  
WPEN-FM Philadelphia  
WJDX-FM Jackson, Ms.  
WHKY-FM Hickory, N.C.  
KHOZ-FM Harrison, Ar.  
WRVC Norfolk, Va.  
KBBW San Diego  
KGME-FM Centralia, Wa.  
CHGB-FM La Pocatière,  
Que.

## 103.1

WFMN Newburgh, N.Y.  
WHRL Albany, N.Y.  
KTHO-FM South Lake  
Tahoe, Ca.  
WJRS-FM Jamestown, Ky.  
KOCM Newport Beach, Ca.  
WAKO-FM Lawrenceville,  
Il.  
KSRF Santa Monica, Ca.  
WRWC South Beloit, Il.  
WEEF-FM Highland Park, Il.  
KELD El Dorado, Ar.  
WZEP-FM Defuniak  
Springs Fl.  
WLMC Okeechobee, Fl.  
WLOQ Winter Park, Fl.  
WHLT-FM Huntington, In.  
WMAJ-FM State College,  
Pa.  
WJMX-FM Florence, S.C.  
KMUL-FM Muleshoe, Tx.  
WTAP-FM Parkersburg,  
W.V.

## 103.3

WCRF-FM Cleveland  
KORU Tulsa, Ok.  
WJAM-FM Montgomery, Al.  
KBEE-FM Modesto, Ca.  
WPLO-FM Atlanta  
WGEE-FM Indianapolis  
KMOX-FM St. Louis  
WFHR-FM Wisconsin  
Rapids, Wi.  
WSBA-FM York, Pa.  
KMUZ Santa Barbara, Ca.  
KCTA-FM Sinton, Tx.  
WEEL-FM Boston  
WMNA-FM Gretna, Va.  
WYSL-FM Buffalo, N.Y.  
WKDA-FM Nashville  
KPRS-FM Kansas City, Mo.  
WBRD-FM Bradenton, Fl.  
WPRB Princeton, N.J.  
KTFC Sioux City, Ia.  
WKFR-FM Battle Creek, Mi.  
WVQM Huntington, W. Va.  
CBO-FM Ottawa

## 103.5

KOA-FM Denver  
KADS Los Angeles  
WGMS-FM Washington  
WSRF-FM Ft. Lauderdale,  
Fl.  
WSTV-FM Steubenville, Oh.  
WKFM Chicago  
WMUZ Detroit  
WHOH Hamilton, Oh.  
KYSM-FM Mankato, Mn.  
WTFM Lake Success, N.Y.  
WBIR-FM Knoxville, Tn.  
WTCM-FM Traverse City,  
Mi.  
CHQM-FM Vancouver, B.C.

## 103.7

KJAN-FM Atlantic, Ia.  
WLJM Gadsden, Al.  
WMGM Atlantic City  
KVIL-FM Dallas-Highland  
Park  
KGO-FM San Francisco  
WMOU-FM Berlin, N.H.  
WIXL-FM Newton, N.J.  
KARK-FM Little Rock, Ar.  
WTOS Wauwatosa, Wi.  
WTAX-FM Springfield, Il.  
WFIU Bloomington, In.  
WOC-FM Davenport, Ia.  
WASA-FM Havre de Grace,  
Md.  
KSDO-FM San Diego  
WTFM Tiffin, Oh.  
WEIV Ithaca, N.Y.  
WFMV Richmond, Va.  
WIAM-FM Williamston, N.C.  
WKNE-FM Keene, N.H.  
WRUF-FM Gainesville, Fl.  
WFOR-FM Hattiesburg, Ms.  
WSOC-FM Charlotte, N.C.

## 103.9

KHAR-FM Anchorage  
KGHO-FM Hoquiam, Wa.  
WOSH-FM Oshkosh, Wi.  
KGRD-FM Las Cruces, N.M.  
KTAC-FM Tacoma, Wa.  
WHBM Xenia, Oh.  
WHRF-FM Riverhead, N.Y.  
KTYM-FM Inglewood, Ca.  
WIBF-FM Jenkintown, Pa.  
WFAS-FM White Plains,  
N.Y.  
WELP-FM Easley, S.C.  
KERR, Salinas, Ca.  
WJVA-FM South Bend, In.  
WTCO-FM Campbellsville,  
Ky.  
WTCW-FM Whitesburg, Ky.  
WLEN Adrian, Mi.  
WOAP-FM Owosso, Mi.  
CFMC-FM Saskatoon, Sask.  
CFFM-FM-3 Merritt, B.C.

## 104.1

WSMD-FM LaPlata, Md.  
WMUN Muncie, In.  
WRKT-FM Cocoa Beach, Fl.  
WVGR Grand Rapids, Mi.  
KTRB-FM Modesto, Ca.  
WLAG-FM LaGrange, Ga.  
KRBE Houston  
WIKY-FM Evansville, In.  
WTJS-FM Jackson, Tn.  
KMLB-FM Monroe, La.  
WBCN Boston  
WMFM Madison, Wi.  
WPAY-FM Portsmouth, Oh.  
WTPA-FM Harrisburg, Pa.  
WAEB-FM Allentown, Pa.  
WJW-FM Cleveland  
WWOL-FM Buffalo, N.Y.  
WSJS-FM Winston-Salem,  
N.C.  
KRSI-FM St. Louis Park,  
Mn.  
KOFM Oklahoma City  
WLAT-FM Conway, S.C.  
WATM-FM Atmore, Al.

## 104.3

KBIG-FM Los Angeles  
KERI Bellingham, Wa.  
WRUN-FM Utica, N.Y.  
WJJD-FM Chicago  
WOHI-FM East Liverpool,  
Oh.  
WITH-FM Baltimore  
WJOF Athens, Al.

WOMC Detroit  
KBEY Kansas City, Mo.  
WNCN New York  
WCPS-FM Tarboro, N.C.  
WRKT-FM Cocoa Beach, Fl.  
KLMO-FM Longmont, Co.  
WBBQ-FM Augusta, Ga.  
KSOP-FM Salt Lake City  
CKCY-FM Sault Ste. Marie,  
Ont.

## 104.5

WPHD Norfolk, Va.  
KITE-FM San Antonio, Tx.  
KSRN Reno  
WRCP-FM Philadelphia  
KFOG San Francisco  
KIXL-FM Dallas  
WFMG Gallatin, Tn.  
WWST-FM Wooster, Oh.  
WAJC Indianapolis  
WMT-FM Cedar Rapids, Ia.  
WGPC-FM Albany, Ga.  
WHIS-FM Bluefield, W.V.  
WFMB Springfield, Il.  
WFMP Fitchburg, Ma.  
CJSS-FM Cornwall, Ont.  
CHUM-FM Toronto

## 104.7

KRES Moberly, Mo.  
WJLN Birmingham, Al.  
KBUS-FM Mesa, Az.  
WRMI-FM Morris, Il.  
WTTN-FM Watertown, Wi.  
WNOK-FM Columbia, S.C.  
KPMJ Oxnard, Ca.  
WPKM Tampa, Fl.  
WKAQ-FM San Juan, P.R.  
WXAX Elkhart, In.  
WSVS-FM Crewe, Va.  
WITZ-FM Jasper, In.  
WJEJ-FM Hagerstown, Md.  
WCWA-FM Toledo, Oh.  
WONE-FM Dayton, Oh.  
KFAM-FM St. Cloud, Mn.  
WYFM Charlotte, N.C.  
WKIP-FM Poughkeepsie,  
N.Y.  
WYDD Pittsburgh  
WOSC-FM Fulton, N.Y.  
KGEC Palm Springs, Ca.  
WDOL-FM Athens, Ga.  
KDUX-FM Aberdeen, Wa.  
CJOV-FM Kelowna, B.C.

## 104.9

KRFO-FM Owatonna, Mn.  
KBOE-FM Oskaloosa, Ia.  
KVOE-FM Emporia, Ar.  
KNBQ Bethany, Dk. Ok.  
WYSH-FM Clinton, Tn.  
KFMR Fremont, Ca.  
WFUL-FM Fulton, Ky.  
WVCA-FM Gloucester, Ma.  
KUAC College, Ak.  
WHOD-FM Jackson, Al.  
WFIW-FM Fairfield, Il.  
WCBW Columbia, Il.  
WWHC Hartford City, In.  
WNRE Circleville, Oh.  
WFCY-FM Alma, Mi.  
WACY-FM Moss Point, Ms.  
WTAB-FM Tabor City, N.C.  
WAAZ-FM Crestview, Fl.  
WDDL-FM Scranton, Pa.  
KYLE-FM Temple, Tx.  
WVVV Blacksburg, Va.

## 105.1

WCXL Cincinnati

WOIV De Ruyter Township, N.Y.  
 WQSB Albertsville, Al.  
 KBCA Los Angeles  
 KHIQ Sacramento, Ca.  
 KTGM Denver  
 WAVA-FM Arlington, Va.  
 WVCG-FM Coral Gables, Fl.  
 WQRS-FM Detroit  
 WEAU-FM Evanston, Il.  
 WGEM-FM Quincy, Il.  
 WPJB-FM Providence, R.I.  
 WLYC-FM Williamsport, Pa.  
 WSOM-FM Salem, Oh.  
 WDNC-FM Durham, N.C.  
 WRFM New York  
 WGSF-FM Ephrata, Pa.  
 KUSN-FM St. Joseph, Mo.  
 WWJC-FM Superior, Wi.  
 WKOZ-FM Kosciusko, Ms.  
 KWKC-FM Abilene, Tx.  
 WKLC-FM St. Albans, W.V.

## 105.3

KITT San Diego  
 WVHI Evansville, In.  
 KBRG San Francisco  
 KGFm Edmonds, Wa.  
 KMAP Dallas  
 WDAS-FM Philadelphia  
 WAGY-FM Forest City, N.C.  
 WWHG-FM Hornell, N.Y.  
 WCLW-FM Mansfield, Oh.  
 WFRB-FM Frostburg, Md.  
 WASK-FM Lafayette, In.  
 WXRI Norfolk, Va.  
 WDBQ-FM Dubuque, Ia.

## 105.5

KRBI-FM St. Peter, Mn.  
 KVRD Stillwater, Ok.  
 WACT-FM Tuscaloosa, Al.  
 WCCN-FM Neillsville, Wi.  
 (CP for ch. 298)  
 KNDR Chickasha, Ok.  
 WDAR-FM Darlington, S.C.  
 WJWS-FM South Hill, Va.  
 WSVB Tamaqua, Pa.  
 KNAC Long Beach, Ca.  
 KNIK-FM Anchorage  
 WWGP-FM Sanford, N.C.  
 WHTG-FM Eatontown, N.J.  
 (CP for ch. 292)  
 WDHA-FM Dover, N.J.  
 KHSJ-FM Hemet, Ca.  
 KCUE-FM Red Wing, Mn.  
 WMVR-FM Sidney, Oh.  
 WSMT-FM Sparta, Tn.  
 WWSM Bay Minette, Al.  
 WLAY-FM Muscle Shoals, Al.

WCHK-FM Canton, Ga.  
 WSAC-FM Fort Knox, Ky.  
 WMRP-FM Flint, Mi.  
 WXQR-FM Jacksonville, N.C.  
 WATH-FM Athens, Oh.  
 WFIZ Conneaut, Oh.  
 WRIP-FM Rossville, Ga.  
 WBNT-FM Oneida, Tn.

## 105.7

KSGM-FM Ste. Genevieve, Mo.  
 WRFV-FM San Juan, P.R.  
 KLUE-FM Longview, Tx.  
 KUOA-FM Siloam Springs, Ar.  
 WAIV Indianapolis  
 WAUG-FM Augusta, Ga.  
 WOOD-FM Grand Rapids, Mi.  
 KHCB-FM Houston  
 WNOW-FM York, Pa.  
 WKYC-FM Cleveland  
 WFMX Statesville, N.C.  
 WKOX-FM Framingham, Ma.  
 WCBF Catonsville, Md.  
 KREP Santa Clara, Ca.  
 KTWD Spokane, Wa.  
 WAPL-FM Appleton, Wi.  
 CBU-FM Vancouver, B.C.  
 CHSC-FM Catharines, Ont.

## 105.9

WLAC-FM Nashville  
 WPFM-FM Middletown, Oh.  
 KBMS-FM Los Angeles  
 WXRA Woodbridge, Va.  
 WAMO-FM Pittsburgh  
 WTIO Charleston, W. Va.  
 (CP on 274)  
 WCHD Detroit  
 WXFm Elmwood Park, Il.  
 WFLM Fort Lauderdale, Fl.  
 WHBI Newark, N.J.  
 KBPI Denver  
 KLWN-FM Lawrence, Ks.  
 WMRP-FM Flint, Mi.

## 106.1

WVCG-FM Coral Gables, Fl.  
 KFRC-FM San Francisco  
 WRFS-FM Alexander City, Al.  
 WPAC-FM Patchogue, N.Y.  
 WLET-FM Toccoa, Ga.  
 WTBO-FM Cumberland, Md.

WTSV-FM Claremont, N.H.  
 WSMI-FM Litchfield, Il.  
 WAUK-FM Waukesha, Wi.  
 KLAY-FM Tacoma, Wa.  
 KDNT-FM Denton, Tx.  
 WQAL Philadelphia  
 WCLI-FM Corning, N.Y.  
 WVOT-FM Wilson, N.C.  
 WOCH-FM North Vernon, In.  
 WVNO-FM Mansfield, Oh.  
 WKHM-FM Jackson, Mi.  
 KREB Monroe, La.

## 106.3

WOVE-FM Welch, W.V.  
 WVMI-FM Biloxi, Ms.  
 KYMS Santa Ana, Ca.  
 WWOX-FM Woonsocket, R.I.  
 WLNK-FM Lansing, Il.  
 WOTW-FM Nashua, N.H.  
 WNDY Crawfordsville, In.  
 KVOO-FM Cheyenne, Wy.  
 KNDX Yakima, Wa.  
 WVIP-FM Mt. Kisco, N.Y.  
 KOPR-FM Great Falls, Mt.  
 WSPB-FM Sarasota, Fl.  
 WANY-FM Albany, Ky.  
 KTIB-FM Thibodaux, La.  
 KWHG Lincoln, Nb.  
 WLNO London, Oh.  
 KWHI-FM Brenham, Tx.  
 KPAN-FM Hereford, Tx.

## 106.5

KWNT-FM Davenport, Ia.  
 WGNU-FM Granite City, Il.  
 WSEO-FM Kalamazoo, Mi.  
 KLYN-FM Lynden, Wa.  
 KJML Sacramento, Ca.  
 WLOM Chattanooga  
 WCBM-FM Baltimore  
 KPRI San Diego  
 WHLM-FM Bloomsburg, Pa.  
 WFML Washington, In.  
 WXEN-FM Cleveland  
 WSTP-FM Salisbury, N.C.  
 WADV Buffalo, N.Y.  
 WDRK Greenville, Oh.  
 WRFK-FM Richmond, Va.  
 WDLB-FM Marshfield, Wi.  
 WNIK-FM Arecibo, P.R.  
 CFFM-FM-4 Clinton, B.C.

## 106.7

KPPC-FM Pasadena, Ca.  
 WPRW-FM Manassas, Va.

WFTL-FM Ft. Lauderdale, Fl.  
 WWWW Detroit  
 KLZ-FM Denver  
 WSRW-FM Hillsboro, Oh.  
 WBZ-FM Boston  
 WMSH-FM Elizabethtown, Pa.  
 WRVR New York  
 WBVP-FM Beaver Falls, Pa.  
 WDUN-FM Gainesville, Ga.  
 KDFR Tulare, Ca.

## 106.9

WFFM Muskegon, Mi.  
 WIVC Peoria, Il.  
 WBRC-FM Birmingham, Al.  
 WKTA McKenzie, Tn.  
 KMPX San Francisco  
 WNYN Canton, Oh.  
 WCCC-FM Hartford, Ct.  
 WXRF-FM Guayama, P.R.  
 WMRI-FM Marion, In.  
 WKDN-FM Camden, N.J.  
 WMRN-FM Marion, Oh.  
 WMIT Black Mountain, N.C.  
 WARK-FM Hagerstown, Md.  
 WMBO-FM Auburn, N.Y.  
 KROC-FM Rochester, Mn.  
 KNRO-FM Conroe, Tx.  
 KBRO-FM Bremerton, Wa.

## 107.1

WLSM-FM Louisville, Ms.  
 WOKU-FM Greensburg, Pa.  
 KRUS-FM Ruston, La.  
 WSJM-FM St. Joseph, Mi.  
 WTGI Hammond, La.  
 KMAX Sierra Madre, Ca.  
 WRLB Long Branch, N.J.  
 WRNW Mt. Kisco, N.Y.  
 KSEO-FM Durant, Ok.  
 WLCM-FM Lancaster, S.C.  
 WSRC-FM Durham, N.C.  
 KCIL-FM Houma, La.  
 KSLO-FM Opelousas, La.  
 WHLS-FM Port Huron, Mi.  
 WROA-FM Gulfport, Ms.  
 KESM-FM El Dorado Springs, Mo.  
 WGRP-FM Greenville, Pa.

## 107.3

WAAB-FM Worcester, Ma.  
 WBEA Elyria, Oh.  
 WFAW Ft. Atkinson, Wi.  
 WCMN-FM Arecibo, P.R.

KSTN-FM Stockton, Ca.  
 WRSW-FM Warsaw, In.  
 WMAL-FM Washington  
 KARD Wichita, Ks.  
 WUFM Utica, N.Y.  
 WPLB-FM Greenville, Mi.  
 WTRF Greensburg, In.  
 WCOR-FM Lebanon, Tn.  
 WPIN-FM St. Petersburg, Fl.  
 WGBA-FM Columbus, Ga.  
 KLJT Lake Jackson, Tx.

## 107.5

WCCN-FM Neillsville, Wi.  
 WBYO-FM Boyertown, Pa.  
 KLAK-FM Lakewood, Co.  
 WAAA-FM Winston-Salem, N.C.  
 KBBI Los Angeles  
 WYFS Winston-Salem, N.C.  
 WNUS-FM Chicago  
 WGPR Detroit  
 KNOK-FM Ft. Worth  
 WLBB-FM New York  
 WTRF-FM Wheeling, W.V.

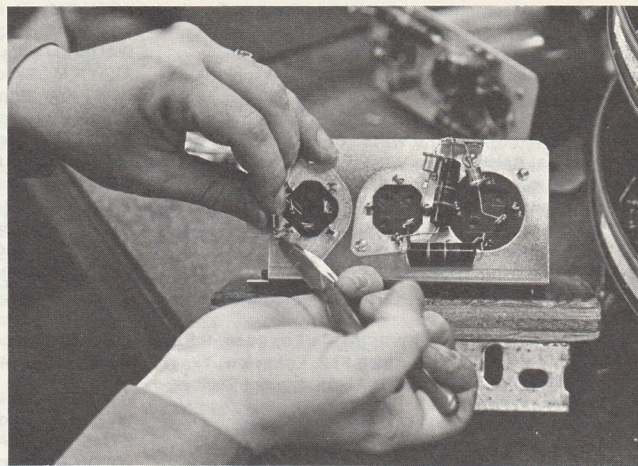
## 107.7

WEER-FM Warrenton, Va.  
 WIVK-FM Knoxville, Tn.  
 WGET-FM Gettysburg, Pa.  
 KUFY San Mateo, Ca.  
 WSNJ-FM Bridgeton, N.J.  
 WDAO Dayton, Oh.  
 WBON Milwaukee  
 WVOZ-FM Carolina, P.R.  
 WBIV Wethersfield, Twp., N.Y.  
 KRAB Seattle  
 WNCT-FM Greenville, N.C.  
 KICD-FM Spencer, Ia.  
 WHSB-FM Alpena, Mi.

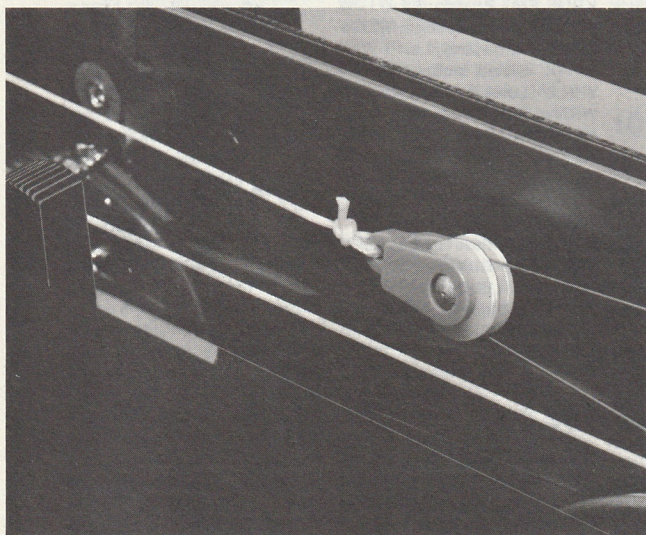
## 107.9

WHIL-FM Medford, Ma.  
 WRPM-FM Poplarville, Ms.  
 WMMM-FM Westport, Ct.  
 WIFE-FM Indianapolis  
 WEEP-FM Pittsburgh  
 KXOA-FM Sacramento, Ca.  
 WNOB Cleveland  
 WGMZ Flint, Mi.  
 WMRO-FM Aurora, Il.  
 WBT-FM Charlotte, N.C.  
 WOBT-FM Rhinelander, Wi.  
 WMAI-FM Panama City, Fl.  
 WPBF West Palm Beach, Fl.  
 WONO Syracuse, N.Y.

# the McIntosh touch



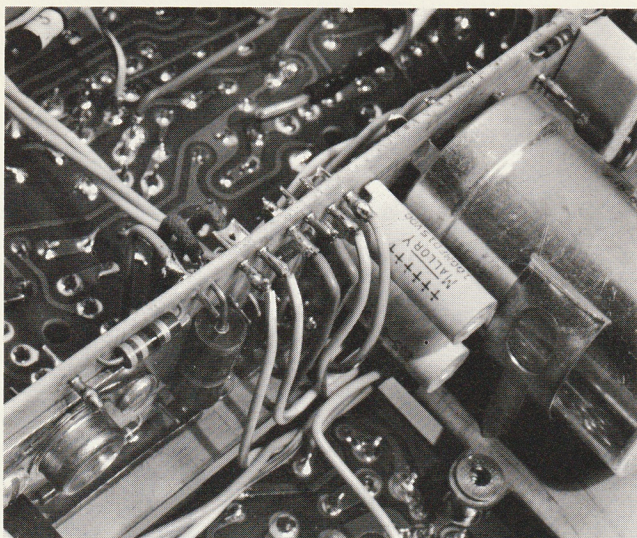
Each McIntosh is handcrafted. Every connection, solder joint, and wire is handcrafted. Handcrafting gives you more value, and more performance. Diligent, nimble-fingered hands busily wire a duplicate of a laboratory sample to insure your enjoyment. Note the neat placement of each part. This means longer trouble-free performance. The highly trained woman wiring this sub-assembly is proud of her work. She skillfully wires and solders each connection. Then she intently inspects each joint and connection. She knows you expect the best.



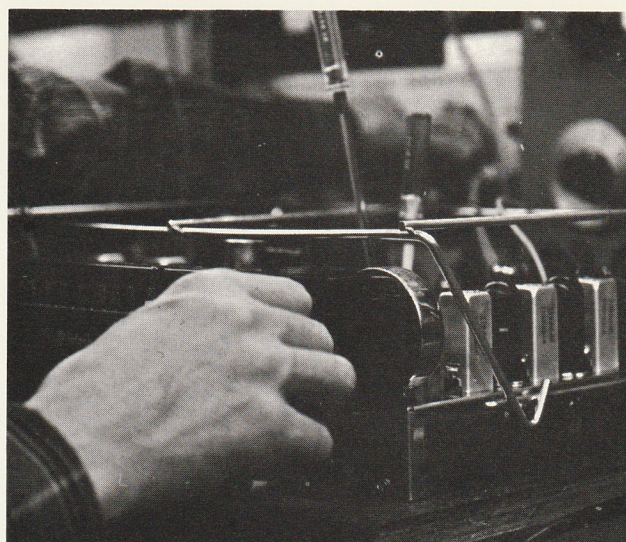
In a world of mass produced merchandise McIntosh is a welcome relief. McIntosh products are made with the best materials. Here is a simple dial string pulley. Before this particular type of pulley was chosen it was checked, re-checked, tested, re-tested, to make sure you are getting the best. The alignment and testing of all McIntosh tuners reflect this care. Try tuning a McIntosh tuner. Then you will know why AUDIO Magazine, the foremost technical journal of sound reproduction said: "The tuning feel . . . is the most perfect we have experienced."



Every mechanical part used in the assembly of units is checked. Here feed through capacitors and preformed solder rings are checked. Nothing is left to chance. Every part must be top quality. Each unit passes hundreds of tests designed to prove it is a McIntosh. Handcrafting makes this high quality possible. There is no rush to keep ahead of an assembly line. There is no rush to meet a demanding production schedule. Time makes a McIntosh what it is. To make a good product takes time. To make a McIntosh takes even longer.

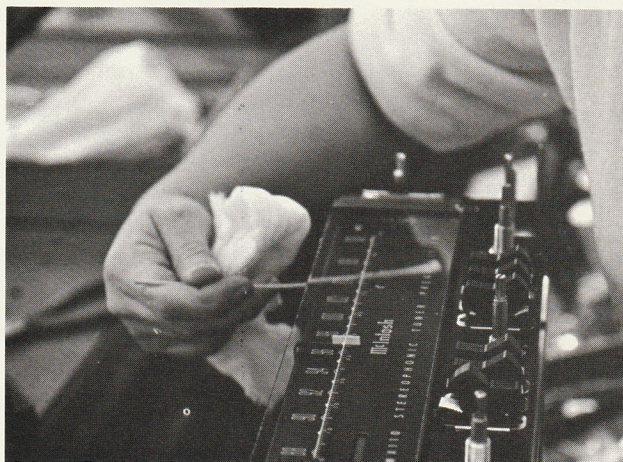


As more parts go into a chassis, craftsmanship becomes more apparent. Each woman is highly trained. Trained in the McIntosh way. Training is continuous. Here a tuner is going through the last assembly stages. Each tuner, amplifier, preamplifier is checked from one station to the next. Your tuner, amplifier and preamplifier are checked again and again. This gives you the best possible performance. McIntosh units continue to sound good year after year after year. If you were going to build stereo components, isn't this the way you would build them?



Each tuner is tested a minimum of 104 times. Each test is designed to give you the best performance. So much testing makes sure each part, each circuit, each detail meets McIntosh quality. Every tuner and amplifier is tested. Every unit must meet exacting critical, precision standards. At any point, if something does not meet its performance guarantee, all testing stops. The reason for failure is found, corrected and then the testing starts over again. This is why only McIntosh offers you a money back guarantee if your McIntosh is not capable of meeting or exceeding its published specifications.

**YOUR NEAREST FRANCHISED  
DEALER WILL DEMONSTRATE**



This unit is being prepared for final assembly. The inside of the dial glass is checked for dust, fingerprints, smudges, or anything that is distracting. The lady is fussy. No other word describes how immaculate a dial glass must be to pass her critical eye. From here the unit moves on to get its front panel. The front panel is checked and re-checked, just like everything in a McIntosh. After a final cleaning and visual inspection the unit is put into a plastic bag to keep it spotless. Next it is packed in a scientifically designed shipping carton and then on to you. All these things are done for your enjoyment.

**Ceretti**

# McIntosh

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