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 PROTECTION

FIRST PROTECTION....

In these dark days of hurry up - percentage analysis - production rush - and *limited personal responsibility* the McIntosh policy of "Performance Limits" is a bit of bright blue sky. Every McIntosh instrument - - every one - - is tested to be equal to or better than the performance limits advertised. When a performance limit of 0.02% harmonic distortion is established for an instrument, McIntosh means that every, each, all of the instruments manufactured must be capable of performance to that limit - or better - - or your full purchase price will be refunded.

Here is one of the reasons McIntosh can make this promise: at McIntosh every product is 100% tested for maximum performance. We are not content knowing that 10% of our products are tested and meet the performance requirements established by our engineering group. We must know that every one meets its requirements. This rigorous pursuit of excellence takes time. At McIntosh more time means more care, more protection for you. There's no production rush at McIntosh.

The McIntosh investment in professional testing instruments is staggering. On a percentage basis McIntosh probably invests more of its sales dollars in testing facilities than anyone else in a like business. For instance, McIntosh has one professional distortion analyzer for every 10 employees. This kind of statistic is repeated for all sorts of test instruments. As new testing instruments are produced that update the McIntosh ability to know, McIntosh invests in them - - wave form analyzers - real time analyzers - lowest distortion signal generators - etc., etc. Even an FM transmitter so that the entire transmission/reception system can be analyzed.

"What does this mean to me?" you ask. Only through this impressive investment; through continuous testing and research; through product analysis; and endless measurement can we promise and deliver to you *reliability, long life, performance, highest value,* and *freedom from service.*

SECOND PROTECTION..

McIntosh Laboratory has great belief in its engineering, product development, manufacturing and quality control. To offer you strong evidence of this confidence McIntosh offers you a FREE FACTORY SERVICE CONTRACT. During the life of the contract you can't spend one dime for service. 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.

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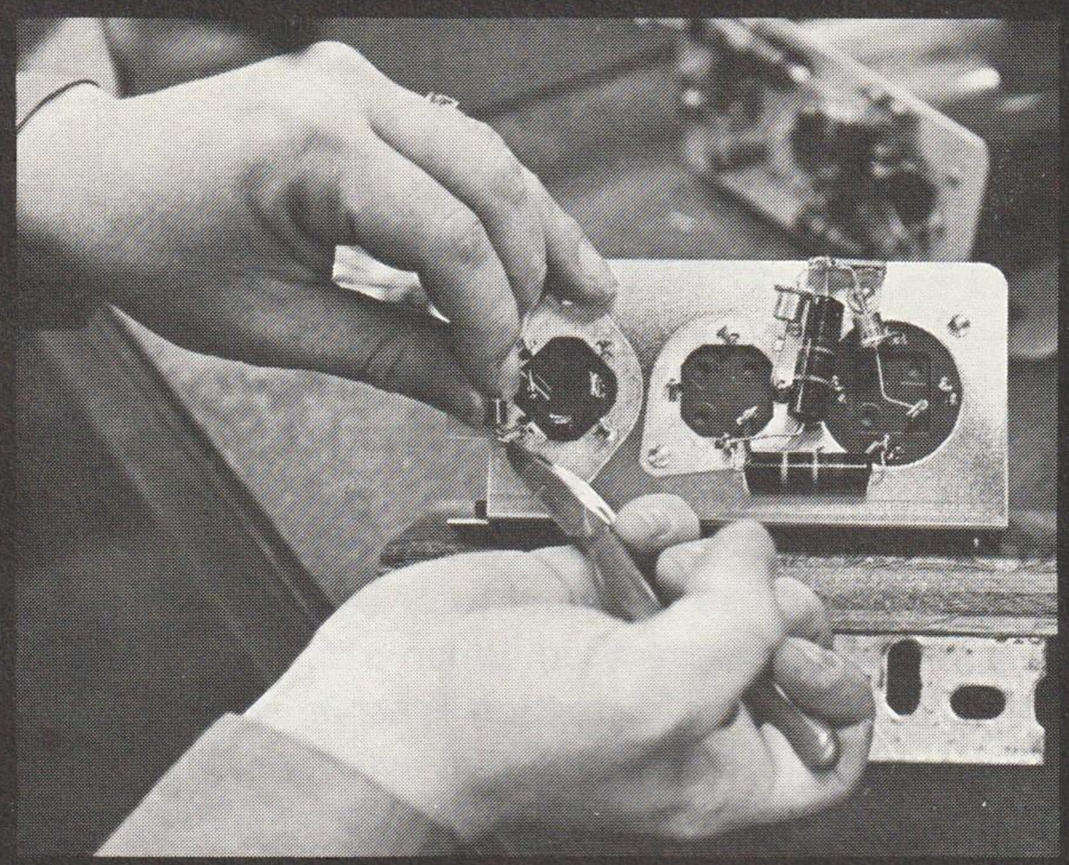
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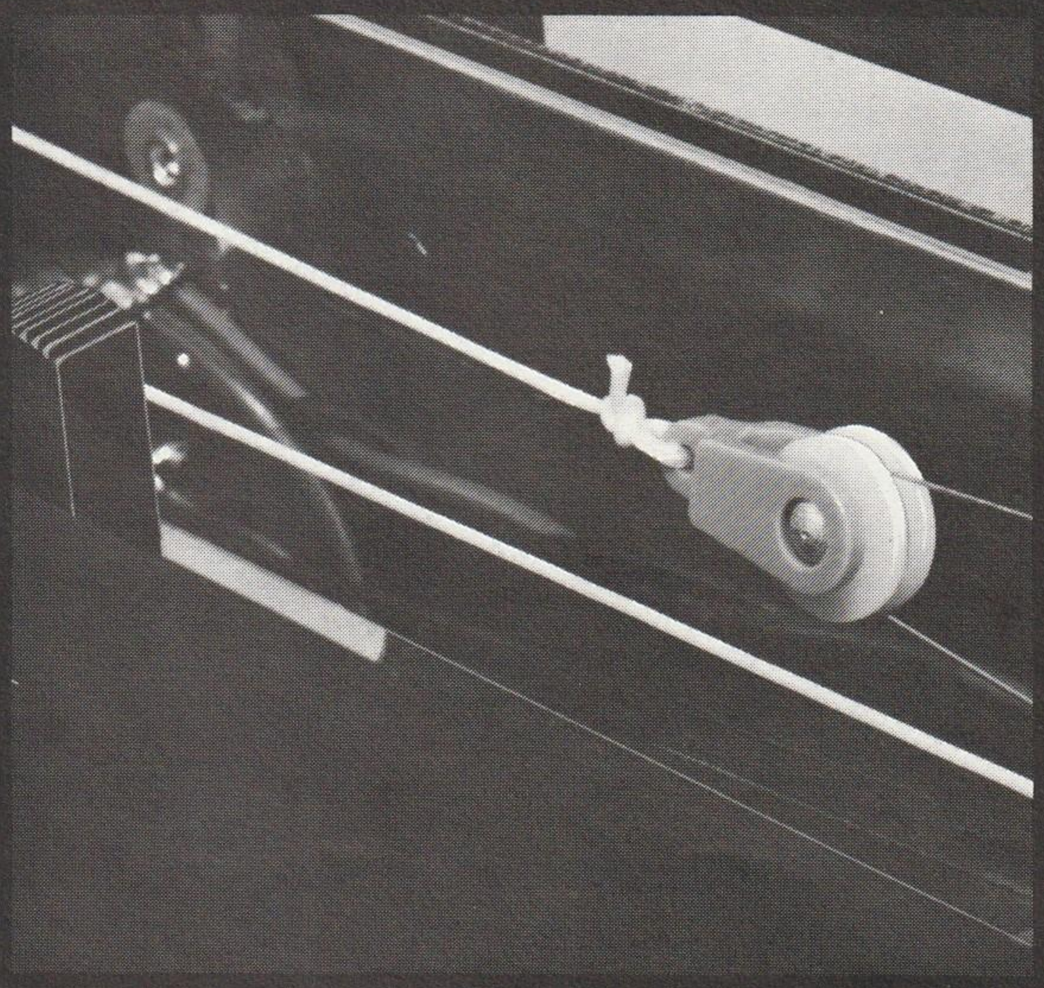
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THE McIntosh TOUCH



Each McIntosh is handcrafted. Every connection, solder joint, and wire is handcrafted. Handcrafting gives you more performance and more value. 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 we expect the best for you.

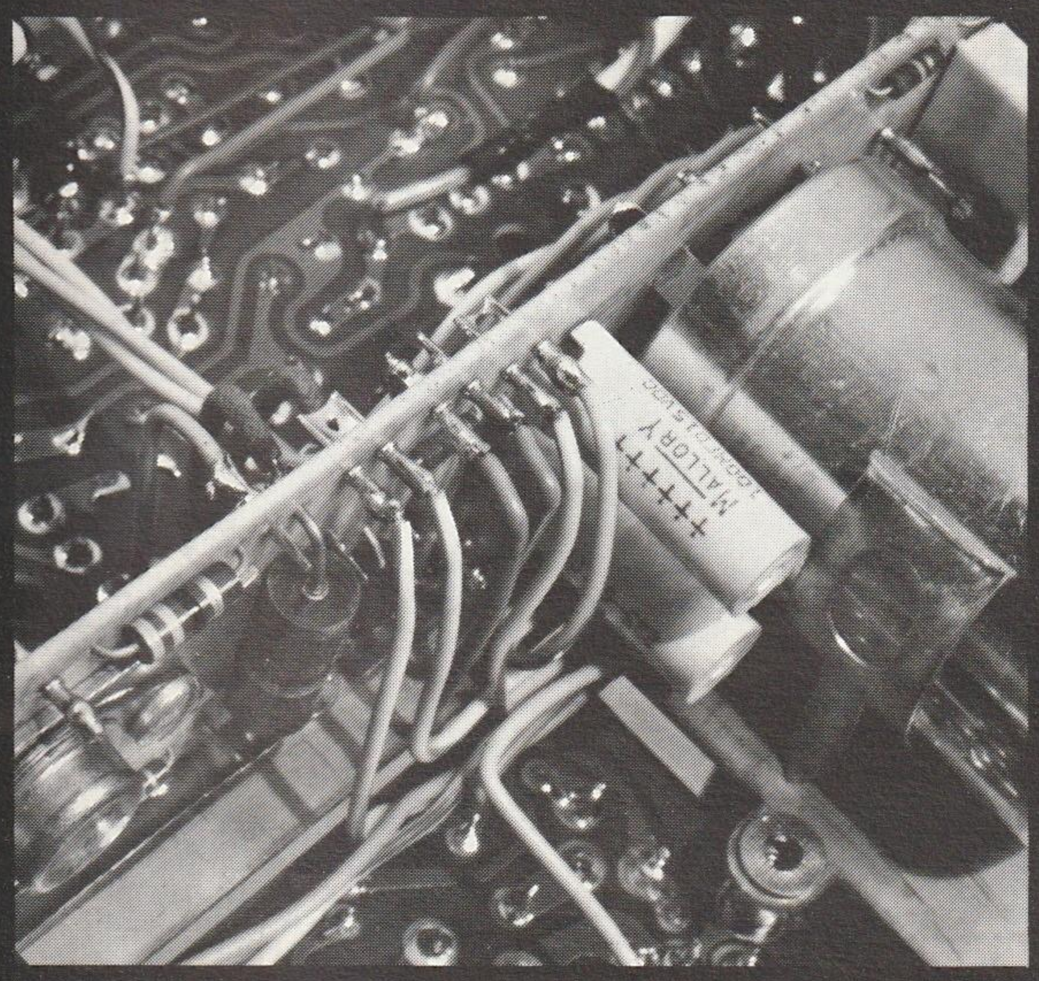


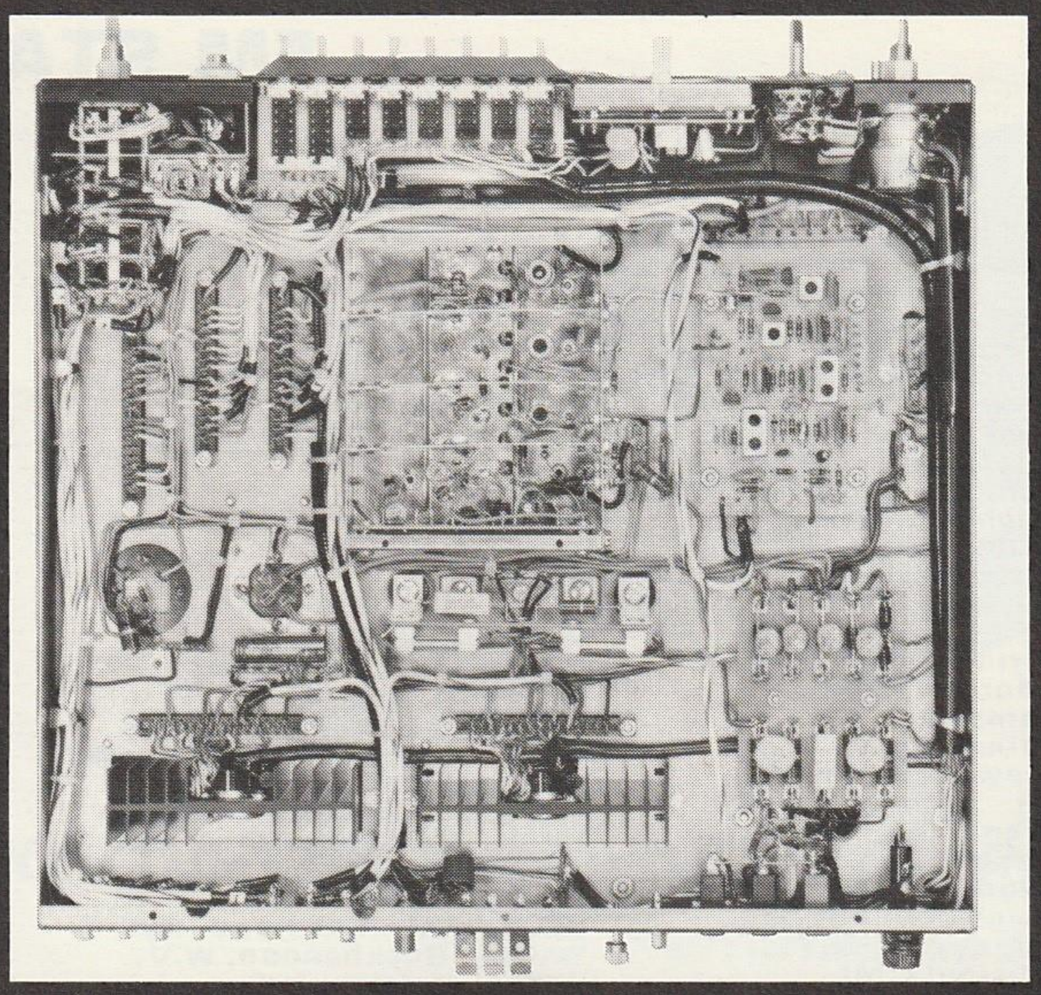
In a world of mass produced merchandise McIntosh is a welcome relief. McIntosh products are made with the best materials. Here is a dial string pulley. Before this particular type of pulley was chosen it was checked, re-checked, tested, re-tested, to make sure you are getting the best. The manufacture, alignment and testing of all McIntosh products reflect this care. Try tuning a McIntosh tuner. Then you will know why one of the foremost technical journals 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 pre-formed 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 assembly line rush. There is no demanding production schedule rush. There is a "demanding product quality" pressure. That requirement takes time. Time makes a McIntosh what it is. To make a good product takes time. To make a McIntosh takes even longer.

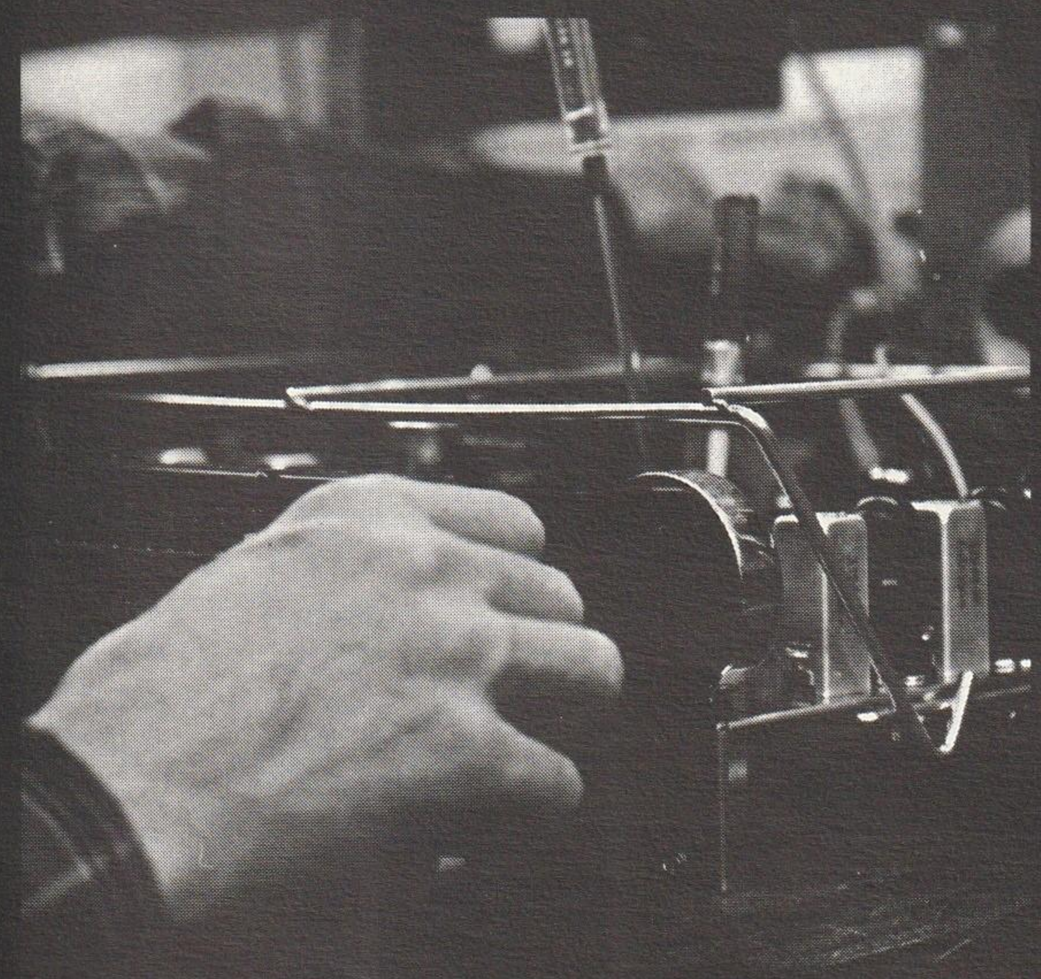
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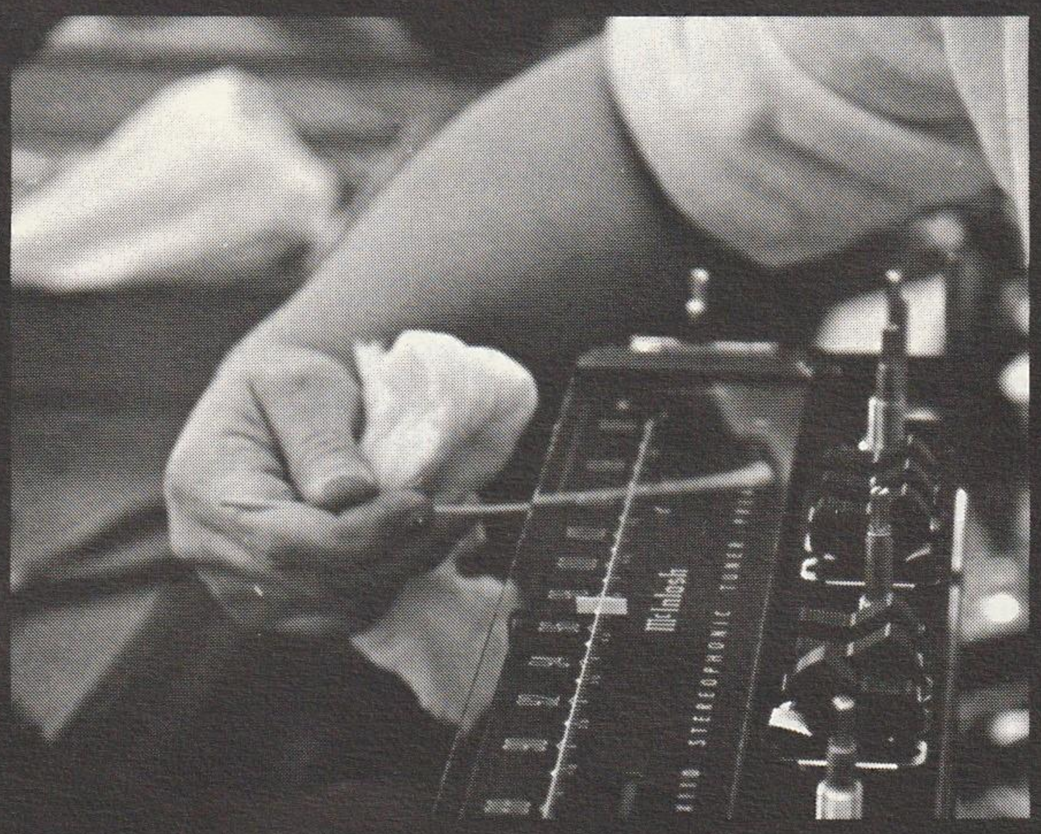




As more parts go into a chassis, craftsmanship becomes more apparent. Each woman is highly trained. Trained in the McIntosh way. Training is continuous. Here a tuner is going through the last assembly stages. Each tuner, amplifier, preamplifier is checked from one station to the next. Your tuner, amplifier or 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 finished unit is a rigid duplicate of a precision laboratory model. Each wire, each resistor, each capacitor, each solid state device is carefully wired into its specific place. Laboratory care and precision are built into each McIntosh product. Each employee is responsible. Each one knows that you will not settle for second best. Each one knows that McIntosh is the leader. Each one knows that one of the prices of leadership is the *constant struggle for superiority.* Each employee is dedicated to giving you the performance you expect and the value you deserve.





Each tuner is rigorously tested. 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.

The lady is fussy. No other word describes how immaculate a dial glass must be to pass her critical eye. It is checked for dust, fingerprints, smudges, or anything that is distracting. From here the unit gets its front panel. The front panel is checked and rechecked, 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

FM STATION DIRECTORY

88.1

KCSC Edmund, Ok.
KJOK Honolulu, Hi.
WAUP Akron, Oh.
KTEC Oretech, Or.
WSBF-FM Clemson, S.C.
WNAS New Albany, In.
KDPS Des Moines, Ia.
WECW Elmira, N.Y.
KTHO-FM Ottawa, Ks.
WHPR Highland Park, Mi.
KHBL Plainview, Tx.
KCNT Hastings, Ne.
WRHS Park Forest, Il.
WLTL La Grange, Il.
WSPE Springville, N.Y.
WLMH Morrow, Oh.
WTBS Cambridge, Ma.
WNTH Winnetka, Il.
WBGU Bowling Green, Oh.
KSDB-FM Manhattan, Ks.
KUNR Reno, Nv.
WESU Middletown, Ct.
WMUL Huntington, W.V.
KSOZ Point Lookout, Mo.
WCWP Brookville, N.Y.
KUFM Missoula, Mt.
WEMU Ypsilanti, Mi.
WBCR-FM Beloit, Wi.
KWCR-FM Ogden, Vt.
WKNC-FM Raleigh, N.C.
WVAC Adrian, Mi.
KCDR-FM Cedar City, Ut.
KUCR Riverside, Ca.
WTSD Drayton Plains, Mi.

88.3

WAER Syracuse, N.Y.
WCMO Marietta, Oh.
WHWC Colfax, Wi.
KSDS San Diego, Ca.
WGBO Newark, N.J.
WBWC Berea, Oh.
KEMR Loma Linda, Ca.
KRVS Lafayette, La.
WIAA Interlochen, Mi.
WHOV Hampton, Va.
WGEV Beaver Falls, Pa.
WKOC Kankakee, Il.
KESD Brookings, S.D.
WHPK-FM Chicago, Il.
KSWC Winfield, Ks.
KUNF La Canada, Ca.
WDGC-FM Downers Grove, Il.
WIQH Concord, Ma.
WCBU Peoria, Il.

88.5

WFCR Amherst, Ma.
WMUB Oxford, Oh.
WRKC Wilkes-Barre, Pa.
KEDC-FM Northridge, Ca.
WMTH Park Ridge, Il.
WAMU-FM Washington, D.C.
KTEP El Paso, Tx.
KQED-FM San Francisco, Ca.
KSMS Rolla, Mo.
WHFH Flossmoor, Il.
KPLU-FM Tacoma, Wa.
KUSC St. Cloud, Mn.
WFDD-FM Winston-Salem, N.C.
WHSD Hinsdale, Il.
WYSU Youngstown, Oh.
KAXR Flagstaff, Az.
KNTU Denton, Tx.
KSTI Springfield, S.D.
WGHS Glen Ellyn, Il.
KLJC Kansas City, Mo.
KBEM-FM Minneapolis, Mn.
WRAS Atlanta, Ga.

88.7

WESS E. Stroudsburg, Pa.
WRSE-FM Elmhurst, Il.
WHA-FM Madison, Wi.
KSTE Emporia, Ks.
WOBC-FM Oberlin, Oh.
WVHC Hempstead, N.Y.
KBGL Pocatello, Id.
WJCR Indianapolis, In.
WRRH Franklin Lakes, N.J.
WCNE Batavia, Oh.
WHCL-FM Clinton, N.Y.
KSPC Claremont, Ca.
WGVE Gary, In.
WRFW River Falls, Wi.
WSIE Edwardsville, Il.
WCYC Chicago, Il.
KUHF Houston, Tx.
WLIU Lincoln University, Pa.
WBFO Buffalo, N.Y.
CKWW-FM Windsor, On.

88.9

KBYU-FM Provo, Ut.
WXPN Philadelphia, Pa.
WERS Boston, Ma.
KOKH Oklahoma City, Ok.
WUJC University Heights, Oh.
WNAZ-FM Nashville, Tn.
WSND-FM Notre Dame, In.
WCSU-FM Wilberforce, Oh.
WYMS Milwaukee, Wi.
KNBU Baldwin, Ks.
WEKU-FM Richmond, Ky.
WVWC Buckhannon, W.V.
WSHA Raleigh, N.C.
WKPS New Wilmington, Pa.
KXLU Los Angeles, Ca.
WKES Chattanooga, Tn.
KENW-FM Portales, N.M.
KWMR Cedar Rapids, Ia.

89.1

WFDU Teaneck, N.J.
WNGT Wingate, N.C.
WNHC New Haven, Ct.
WCWM Williamsburg, Va.
KUMD-FM Duluth, Mn.
WNYU New York (U.N.)
KMUW Wichita, Ks.
KANW Albuquerque, N.M.
KCUI Pella, Ia.
KWAR Waverly, Ia.
WAPS Akron, Oh.
WVCR-FM Loudonville, N.Y.
KTCU-FM Fort Worth, Tx.
WUSO Springfield, Oh.
KLHS-FM Lewiston, Id.
WONC Naperville, Il.
WNUB-FM Northfield, Vt.
WUKP Prestonburg, Ky.

89.3

WPCS Pensacola, Fl.
WFPL Louisville, Ky.
WHKW Chilton, Wi.
WOAK Royal Oak, Mi.
WRTC-FM Hartford, Ct.
WHHS Havertown, Pa.
WNUR Evanston, Il.
KPCS Pasadena, Ca.
WCAL-FM Northfield, Mn.
WCSQ Central Square, N.Y.
KPFB Berkeley, Ca.
KCUR-FM Kansas City, Mo.
KRRC-FM Portland, Or.
WFCI Franklin, In.
WSAE Spring Arbor, Mi.
WGRN Greenville, Il.
WRCJ Reading, Oh.
WGSU Geneseo, N.Y.
KUOI-FM Moscow, Id.
WSMR Dayton, Oh.

89.5

KGFV Ferguson, Mo.
KFPR San Francisco, Ca.
KNHC Seattle, Wa.
KSJC-FM Stockton, Ca.
WSOU South Orange, N.J.
WAMF Amherst, Ma.
KWGS Tulsa, Ok.
KPBS-FM San Diego, Ca.
KMFA Austin, Tx.
WVUR-FM Valparaiso, In.
WPKN Bridgeport, Ct.
WBKE-FM North Manchester, In.
WVSS Menomonie, Pa.
WNTE Mansfield, Pa.
KDIC Grunnell, Ia.
WSAJ-FM Grove City, Pa.
KHTC Helena, Mt.
WNIU-FM DeKalb, Il.
WMOT Murfreesboro, Tn.
WRHO Oneonta, N.Y.
WRDL Ashland, Oh.
WCMU-FM Mt. Pleasant, Mi.

89.7

KSDA LaSierra, Ca.
WEOS Geneve, N.Y.
WOBC Oberlin, Oh.
WOSU Columbus, Oh.
KLLU Riverside, Ca.
WGBH-FM Boston, Ma.
KFJC Los Altos, Ca.
WKSU-FM Kent, Oh.
WUFS Tampa, Fl.
WISU Terre Haute, In.
WGLS-FM Glassboro, N.J.
KRNL-FM Mt. Vernon, Ia.
WUMW Milwaukee, Wi.
WMCU Miami, Fl.
WBMR Telford, Pa.
KNHS Torrance, Ca.
WMUH Allentown, Pa.
WDYN Chattanooga, Tn.
WSHR Lake Ronkonoma, N.Y.
KGCC Denison, Tx.
WTPC Elsah, Il.
WHWE Howe, In.
CJUS-FM Saskatoon, Sk.

89.9

KWBU Waco, Tx.
KCRW Santa Monica, Ca.
WSCB Springfield, Ma.
WHSA Brule, Wi.
WUSV Scranton, Pa.
WKCR-FM New York, N.Y.
WUSC-FM Columbia, S.C.
KEWC-FM Cheney, Wa.
WAUG Greensboro, N.C.
KANG Angwin, Ca.
KUSD-FM Vermillion, S.D.
KCLC St. Charles, Mo.
WSUS Stevens Point, Wi.
WRVO Oswego, N.Y.
KUCI Irvine, Ca.
WWNO New Orleans, La.

90.1

WRPN Ripon, Wi.
WRTI-FM Philadelphia, Pa.
WABE Atlanta, Ga.
WMBI-FM Chicago, Il.
KTSR Kansas City, Mo.
WOI-FM Ames, Ia.
KUER Salt Lake City, Ut.
WIAN Indianapolis, In.
WGTB-FM Washington, D.C.
WNMR Marquette, Mi.
WCDR-FM Cedarville, Oh.
KSOR Ashland, Or.
KZSU Stanford, Ca.
WRUV Burlington, Vt.
KBVR Corvallis, Or.
KSJR-FM Collegeville, Mn.
KUNM Albuquerque, N.M.
KCSC Edmond, Ok.
KALA Davenport, Ia.
WPEA Exeter, N.H.
KMTS Moberly, Mo.
KGLT Bozeman, Mt.
WWEB-FM Wallingford, Ct.
WRVG Georgetown, Ky.
KMIH Mercer Island, Wa.
KPFT Houston, Tx.
WNJC-FM Senatobia, Mi.
KASD Aberdeen, S.D.
WRCU-FM Hamilton, N.Y.
KBPK Buena Park, Ca.
KCFR Denver, Co.

90.3

WSHS Floral Park, N.Y.
WBOE Cleveland, Oh.
WAMC Albany, N.Y.
WHLA Holmen, Wi.
KCMA San Francisco, Ca.
WPLN Nashville, Tn.
WUNH Durham, N.H.
WARC Meadville, Pa.
KRNV Lincoln, Ne.
WHPH Hanover, N.J.
KSYM San Antonio, Tx.
KLCC Eugene, Or.
KBFL Buffalo, Mo.

90.5

KMSD Mankato, Mn.
WKAR-FM East Lansing, Mi.
WICN Worcester, Ma.
KHSC Arcata, Ca.
WCBE Columbus, Oh.
WFOS Chesapeake, Va.
WVKC Galesburg, Il.
WJRH Easton, Pa.
WVBU-FM Lewisburg, Pa.
KWWC-FM Columbus, Mo.
WSUP Platteville, Wi.
KTUH Honolulu, Hi.
WHRW Binghamton, N.Y.
KCOE-FM Cedar Rapids, Ia.
WVUM Coral Gables, Fl.
KDHS Modesto, Ca.
WALP Corinth, Ma.
WJSV Morristown, N.J.

90.7

WFUV New York, N.Y.
WHAD Delafield, Wi.
KPFK Los Angeles, Ca.
WNIN Evansville, In.
WMHC-FM South Hadley, Ma.
KUT-FM Austin, Tx.
WBST Muncie, In.
KSJS San Jose, Ca.
WKTL Struthers, Ca.
KBOO Portland, Or.
WSMC-FM Collegedale, Tn.
WSCC Somerset, Ky.
KALX Berkeley, Ca.
KERS Sacramento, Ca.
KWMU St. Louis, Mo.
WUVT-FM Blacksburg, Va.
WVTC Randolph Center, Vt.
WQFS Greensboro, N.C.
WACG-FM Augusta, Ga.

90.9

WIRQ Rochester, N.Y.
WGUC Cincinnati, Oh.
WDTR Detroit, Mi.
WEPS Elgin, Il.
KASF Alamosa, Co.
WBUR Boston, Ma.
KCSM San Mateo, Ca.
WUHY-FM Philadelphia, Pa.
WVIK Rock Island, Il.
WILL-FM Urbana, Il.
KCPS Tacoma, Wa.
KCMW-FM Warrensburg, Mo.
KCSU-FM Fort Collins, Co.
WBDG Indianapolis, In.
WETA-FM Washington, D.C.
WDUB Granville, Oh.
WMEH-FM Bangor, Me.
KPWN Parowan, Ut.
KRBM Pendleton, Or.
WAUS-FM Berrien Springs, Mi.

91.1

WLFM Appleton, Wi.
WBOR Brunswick, Me.
WKCS Knoxville, Tn.
WSLN Delaware, Oh.
WMUA Amherst, Ma.
WTSC-FM Potsdam, N.Y.
KWBI Morrison, Co.
WDFM State College, Pa.
WVSU-FM Birmingham, Al.
KWAX Eugene, Or.
WGCS Goshen, In.
WFMU East Orange, N.J.
WSHU Fairfield, Ct.
WRIU Kingston, R.I.
WEDM Indianapolis, In.
KEDP Las Vegas, Nv.
WWCL Wesson, Ms.
WRUR-FM Cleveland, Oh.
KSJN-FM New Brighton, Mn.
WEDQ-FM DeGradd, Oh.
WGGL-FM Houghton, Mi.
KCCM-FM Moorhead, Mn.
WREK Atlanta, Ga.
KOBC Joplin, Mo.
KVHS Concord, Ca.
KCHO Chico, Ca.
WMRA Harrisonburg, Va.
WDHS Gaston, In.
WRMU Alliance, Oh.
KSWH Arkadelphia, Ak.
CJRT-FM Toronto, On.

Ceretti

91.3

KUOP Stockton, Ca.
WBKT Lexington, Ky.
WHJE Carmel, In.
KOVF-FM Kearney, Ne.
WIUM Macomb, Il.
WHHI Highland, Wi.
WKMS-FM Murry, Ky.
WTJU Charlottesville, Va.
KUCV Lincoln, Ne.
KGTS College Place, Wa.
WIPR-FM San Juan, P.R.
KOCV Odessa, Tx.
WDOM Providence, R.I.
WSSU Superior, Wi.
WXAC Reading, Pa.
WFMQ Lebanon, Tn.
WTHS Miami, Fl.
KDCR Sioux Center, Ia.
KBIA-FM Columbia, Mo.
WWUH West Hartford, Ct.
WIUP Indiana, Pa.
KCPR San Luis Obispo, Ca.
KNCT-FM Killeen, Tx.
WSGR-FM Port Huron, Mi.

91.5

KUSC Los Angeles, Ca.
WBEZ Chicago, Il.
WRPI Troy, N.Y.
WOUB-FM Athens, Oh.
WNYE Brooklyn, N.Y.
KSLH St. Louis, Mo.
WWHI Muncie, In.
WYSO Yellow Springs, Oh.
WEVC Evansville, In.
KANU Lawrence, Ks.
WUNC Chapel Hill, N.C.
WPRK Winter Park, Fl.
WDBN Westerville, Oh.
WFSU-FM Tallahassee, Fl.
WYCS Yorktown, Va.
WRJR Lewistown, Me.
WBJC Baltimore, Md.
WGRE Greencastle, In.
WPHS Warren, Mi.
KOAP-FM Portland, Or.
KCWS-FM Ellensburg, Wa.
WECI Richmond, In.
WHMD Suring, Wi.
KUSU-FM Logan, Ut.
WMHS Morrison, Il.
KUWR Laramie, Wy.
KRCC Colorado Springs, Co.
KFCA Phoenix, Az.
KASC Conway, Ar.
KCRH Nampa, Id.
WLUR Lexington, Va.
KDVS Davis, Ca.
WFHC-FM Henderson, Tn.
KOFA Yuma, Az.
WLTI Lowell, Ma.
KIOS-FM Omaha, Ne.
KCSB-FM Santa Barbara, Ca.
KICC International Springs, Mn.
KKUP Cupertino, Ca.

91.7

KNOS Marshall, Mo.
KALW San Francisco, Ca.
WHUS Storrs, Ct.
WBRS Waltham, Ma.
KSUI Iowa City, Ia.
WEMC Harrisonburg, Va.
WUOM Ann Arbor, Mi.
KOSU-FM Stillwater, Ok.
KUID Moscow, Id.
KVTT Dallas, Tx.
WICB Ithaca, N.Y.
KTOY Tacoma, Wa.
WSUW Whitewater, Wi.
WPAA Andover, Ma.
WGLT Normal, Il.
WRMC-FM Middlebury, Vt.
WARP Due West, S.C.
WMPH Wilmington, De.
WHRS Boynton Beach, Fl.
WUHS Urbana, Oh.
WRBB Boston, Ma.
WVXU-FM Cincinnati, Oh.

91.9

WVSH Huntington, In.
WHRM Wausau, Wi.
WUOT Knoxville, Tn.
KASU Jonesboro, Ar.
WHSR-FM Winchester, Ma.
KTXT-FM Lubbock, Tx.
KVRC San Bernadino, Ca.
WFPK Louisville, Ky.
WSUI Carbondale, Il.
KRVM Eugene, Or.
WGTS-FM Takoma Park, Md.
WNTI Hackettstown, N.J.
KDSU Fargo, N.D.
WETL South Bend, In.
WMEB-FM Orono, Me.
WAIC Springfield, Ma.
KWSB-FM Gunnison, Co.
WCWS Wooster, Oh.
KBSB Bemidji, Mn.
KBJC Great Bend, Ks.
KPGY Ames, Ia.
KTAI Kingsville, Tx.
CRFC-FM Kingston, On.

92.1

KTBA Broken Arrow, Ok.
WKEI-FM Kewanee, Il.
WHMS Hialeah, Fl.
WCTX Palmyra, Pa.
KDFM Walnut Creek, Ca.
WEED-FM Rocky Mount, N.C.
WFNY Racine, Wi.
WARD-FM Johnstown, Pa.
WBPZ Lock Haven, Pa.
KOWN-FM Escondido, Ca.
WMNC-FM Morganton, N.C.
WTAW-FM College Station, Tx.
WERM Wapakoneta, Oh.
WDVL-FM Vineland, N.J.
WABF-FM Fairhope, Al.
KKEG Fayetteville, Ar.
WDWM Menomonie, Wi.
WJGA-FM Jackson, Ga.
WDWD-FM Dawson, Ga.
WEIC-FM Charleston, Il.
WMOR-FM Morehead, Ky.
WPKE-FM Pikeville, Ky,
KVCL-FM Winnifield, La.
WLEW-FM Bad Axe, Mi.
WGHN-FM Grand Haven, Mi.
WCCW-FM Traverse City, Mi.
WJNS-FM Yazoo City, Ms.
KSIS-FM Sedalia, Mo.
KBAD-FM Carlsbad, N.M.
WSEN-FM Baldwinsville, N.Y.
WLNG-FM Sag Harbor, N.Y.
WRCM Jacksonville, N.C.
WBLR-FM Batesburg, S.C.
WMYB-FM Myrtle Beach, S.C.
KNBT New Braunfels, Tx.
WDYL Chester, Va.
WRLS-FM Hayward, Wi.
WBTR-FM Carrollton, Ga.
WFEM Ellwood City, Pa.
WKUB Manitowoc, Wi.
WERH-FM Hamilton, Al.
WMSG-FM Oakland, Md.
KSFA-FM Nacogdoches, Tx.
WKLN Cullman, Al.
WHVT Hendersonville, Tn.
KETX-FM Livingston, Tx.
CKPC-FM Brantford, On.
CKY-FM Winnipeg, Mb.
CFMQ-FM Regina, Sk.

92.3

KOTN-FM Pine Bluff, Ar.
KFAC-FM Los Angeles, Ca.
KSJO-FM San Jose, Ca.
WOW-FM Omaha, Ne.
WDBO-FM Orlando, Fl.
WIL-FM St. Louis, Mo.
WCAR-FM Detroit, Mi.
WYCA Hammond, In.
WLRJ Roanoke, Va.
WTTV-FM Bloomington, In.
WRRN-FM Warren, Pa.
KNFM Midland, Tx.
WLPL Baltimore, Md.
KREX-FM Grand Junction, Co.
WPRO-FM Providence, R.I.
WCUY Cleveland Heights, Oh.
KLIQ-FM Portland, Or.
WFLY-FM Troy, N.Y.
WHOM-FM New York, N.Y.
WGWR-FM Asheboro, N.C.
WCOL-FM Columbus, Oh.
KJRG-FM Newton, Ks.
WCOV-FM Montgomery, Al.

KXTC Glendale, Ar.
KGRE Greeley, Co.
KBBK-FM Boise, Id.
WCKW LaPlace, La.
KVEG-FM Las Vegas, Nv.
KRST Albuquerque, N.M.
WDEF-FM Chattanooga, Tn.
WKBJ-FM Milan, Tn.

92.7

KIVY-FM Crockett, Tx.
KACE-FM Riverside, Ca.
WRAJ-FM Anna, Il.
WLIR Garden City, N.Y.
KJAZ Alameda, Ca.
WEXI Arlington Heights, Il.
KNJO Thousand Oaks, Ca.
WDSK-FM Cleveland, Ms.
WBCO-FM Bucyrus, Oh.
KJEF-FM Jennings, La.
WULA-FM Eufaula, Al.
WMIK-FM Middlesboro, Ky.
KMFB-FM Mendocina, Ca.
KLOM-FM Lompoc, Ca.
KVML-FM Sonora, Ca.
WCCF-FM Punta Gorda, Fl.
WMFC Stuart, Fl.
WXLI-FM Dublin, Ga.
KFMA Jerome, Id.
WTIM-FM Taylorville, Il.
WXUS Lafayette, In.
KGLA-FM Algona, Ia.
WADM-FM Decatur, In.
WCER-FM Charlotte, Mi.
KXRA-FM Alexandria, Mn.
WOBM Tom River, N.J.
KTNM-FM Tucumcari, N.M.
WALL-FM Middletown, N.Y.
WJSM-FM Martinsburg, Pa.
KINL Eagle Pass, Tx.
WBBI-FM Abington, Va.
WDUX-FM Waupaca, Wi.
WWBD-FM Bamberg, S.C.
WENY-FM Elmira, N.Y.
WIGS-FM Gouverneur, N.Y.
KWYN-FM Wynne, Ar.
CKSO-FM Sudbury, On.
CFFM-FM Clearwater, B.C.

92.5

WZIP-FM Cincinnati, Oh.
KSYN Joplin, Mo.
KFKF-FM Bellevue, Wa.
KLBK-FM DeKalb, Il.
WATR-FM Waterbury, Ct.
KFBK-FM Sacramento, Ca.
WMHE Toledo, Oh.
WOMI-FM Owensboro, Ky.
WBKU-FM West Bend, Wi.
WRFL Winchester, Va.
KRLD-FM Dallas, Tx.
WHAV-FM Haverhill, Ma.
WESC-FM Greenville, S.C.
WIFI Philadelphia, Pa.
WFAH-FM Alliance, Oh.
WHNC-FM Henderson, N.C.
KYED Pasadena, Tx.
WBFB Rochester, N.y.
KQRS-FM Golden Valley, Mn.
WORO Corozal, P.R.
WQST Forest, Ms.
WFYN-FM Key West, Fl.
WPAP-FM Panama City, Fl.
KXLS Oklahoma City, Ok.
KELO-FM Sioux Falls, S.D.
CFQR-FM Montreal, P.Q.

92.9

KFMD Dubuque, Ia.
KONG Visalia, Ca.
WDSC-FM Dillon, S.C.
WGKA-FM Atlanta, Ga.
KVOR-FM Colorado Springs, Co.
KAKC-FM Tulsa, Ok.
KGRC Hannibal, Mo.
WVLK-FM Lexington, Ky.
WBOS Brookline, Ma.
WSEI Olney, Il.
KREM-FM Spokane, Wa.
WWTV-FM Cadillac, Mi.
KVGM Bellingham, Wa.
WBUF Buffalo, N.Y.
KITY San Antonio, Tx.
WCTM Eaton, Oh.
KDKA-FM Pittsburgh, Pa.
KWBE-FM Beatrice, Ne.

WNDU-FM South Bend, In.
WSET Nashville, Tn.
KAFF-FM Flagstaff, Az.
KWFM Tucson, Az.
WGOV-FM Valdosta, Ga.
KSVP-FM Artesia, N.M.
KFRY-FM Bismarck, N.D.
WYZZ-FM Wilkes-Barre, Pa.
WVNY Burlington, Vt.
WFOG Suffolk, Va.
WTPM Aguadilla, P.R.

93.1

KZAK Tyler, Tx.
KNX-FM Los Angeles, Ca.
WZAK Clevleand, Oh.
WKAT-FM Miami, Fl.
KORE-FM Springfield-Eugene, Or.
WXRT Chicago, Il.
WNAP Indianapolis, In.
WFMM-FM Baltimore, Md.
KGNC-FM Amarillo, Tx.
WHYN-FM Springfield, Ma.
KRVN-FM Lexington, Ne.
WDEE-FM Detroit, Mi.
WGPL Winston-Salem, N.C.
WDDS-FM Syracuse, N.Y.
WPAT-FM Paterson, N.J.
KOSO Patterson, Ca.
KNUJ-FM New Ulm, Mn.
WEAS-FM Savannah, Ga.
KWNS-FM Pratt, Ks.
KGMB-FM Honolulu, Hi.

93.3

KOIT San Francisco, Ca.
WFLS-FM Fredericksburg, Va.
KECR El Cajon, Ca.
KSBY-FM San Luis Obispo, Ca.
WFLA-FM Tampa, Fl.
WBEX-FM Chillicothe, Oh.
KAKW Cincinnati, Oh.
WKYX-FM Paducah, Ky.
KWKI Kansas City, Mo.
KLEN-FM Killeen, Tx.
WJTN-FM Jamestown, N.Y.
KCAW-FM Port Arthur, Tx.
WBBW-FM Youngstown, Oh.
WFDR-FM Manchester, Ga.
WMMR Philadelphia, Pa.
WBBO-FM Forest City, N.C.
WQFM Milwaukee, Wi.
KBLE-FM Seattle, Wa.
KWDM Des Moines, Ia.
WITN-FM Washington, N.C.
WRLM Taunton, Ma.
WJIC-FM Tullahoma, Tn.
WPAB-FM Ponce, P.R.
KMND-FM Mesa, Az.
KIIX-FM Fort Collins, Co.
WMBD-FM Peoria, Il.
WAWK-FM Kendallville, In.
WDSU-FM New Orleans, La.
KOYN-FM Billings, Mt.
KOB-FM Albuquerque, N.M.
KSJM Jamestown, N.D.
KTEN-FM Ada, Ok.
KWHO-FM Salt Lake City, Ut.
WWLA La Crosse, Wi.
WCPC-FM Houston, Ma.

93.5

KFNV-FM Ferriday, La.
KVPI-FM Ville Platte, La.
WRKD-FM Rockland, Me.
WATZ-FM Alpena, Mi.
WMPL-FM Hancock, Mi.
KBMO-FM Benson, Mn.
WKMT-FM Merrill, Wi.
WAIN-FM Columbia, Ky.
WGYL Vero Beach, Fl.
WVPO-FM Stroudsburg, Pa.
KRMS-FM Osage Beach, Mo.
KICS-FM Hastings, Ne.
WBNC-FM Conway, N.H.
WHUC-FM Hudson, N.Y.
WCPA-FM Clearfield, Pa.
KCHF-FM Sioux Falls, S.D.
WKBL-FM Covington, Tn.
WJLM Salem, Va.

Ceretti

93.5

KSOM-FM Ontario, Ca.
WVBR-FM Ithaca, N.Y.
KKOP Redondo Beach, Ca.
WVOX-FM New Rochelle, N.Y.
WCST-FM Berkeley Springs, W.V.
WSGM Staunton, Va.
WAJP Joliet, Il.
KBFC Forrest City, Ar.
WKMO Kokomo, In.
WAWR-FM Bowling Green, Oh.
KTTT-FM Columbus, Ne.
KVWM-FM Show Low, Ar.
KHBM-FM Monticello, Ar.
KPIP Roseville, Ca.
KGIW-FM Alamosa, Ca.
WSEA Georgetown, De.
WSWN-FM Belle Glade, Fl.
WGEA-FM Geneva, Al.
WLIH-FM New London, Wi.
WBTO-FM Linton, In.
WLIL-FM Lenoir City, Tn.
WITT Tuscola, Il.

93.7

WDJC Birmingham, Al.
WFCJ-FM Miamisburg, Oh.
KJSB Houston, Tx.
KFRE-FM Fresno, Ca.
KTBC-FM Austin, Tx.
WLVH Hartford, Ct.
WSTW 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, Mo.
WJIT-FM San Juan, P.R.
KSEL-FM Lubbock, Tx.
WBLK-FM DePew, N.Y.
KPDQ-FM Portland, Or.
WMVO-FM Mt. Vernon, Oh.
WCMI-FM Ashland, Ky.
WFBC-FM Greenville, S.C.
WKJF Pittsburgh, Pa.
WAYL Minneapolis, Mn.
KCIM-FM Carroll, Ia.
KXEW-FM Tuscon, Az.
KISR Fort Smith, Ar.
KCBM Chico, Ca.
KSNN-FM Pocatello, Id.
KEEL-FM Shreveport, La.
WDAY-FM Fargo, N.D.
KMOT-FM Minot, N.D.
KMED-FM Medford, Or.
WBIL Biloxi, Ma.
KDNC-FM Spokane, Wa.
CKAT-FM North Bay, On.

93.9

KPOL-FM Los Angeles, Ca.
WCHN-FM Norwich, N.Y.
WRC-FM Washington, D.C.
WBUS Miami Beach, Fl.
WMEV-FM Marion, Va.
WWEL Chicago, Il.
KWPM-FM West Plains, Mo.
WFMW-FM Madisonville, Ky.
WCOU-FM Lewiston, Me.
WBAG-FM Burlington-Graham, N.C.
KSPI-FM Stilwater, Ok.
WNYC-FM New York, N.Y.
KBUY-FM Fort Worth, Tx.
WMTM-FM Moultrie, Ga.
KFFM Rapid City, S.D.
KSIX-FM Corpus Christi, Tx.
KWLW San Angelo, Tx.
KHVH-FM Honolulu, Hi.
KUAM-FM Agana, Guam
CFMO-FM Ottawa, On.
CKLW-FM Windsor, On.

94.1

KLVM-FM Henderson, Nv.
KRAA Little Rock, Ar.
KLYD-FM Bakersfield, Ca.
KOGO-FM San Diego, Ca.
KPFA Berkeley, Ca.
KNEB-FM Scottsbluff, Ne.

WQXI-FM Smyrna, Ga.
WMIX-FM Mt. Vernon, Il.
KCKN-FM Kansas City, Ks.
KDEF-FM Albuquerque, N.M.
WPEX-FM Pensacola, Fl.
KBXL-FM Caldwell, Id.
KOWH-FM Omaha, Ne.
WHBC-FM Canton, Oh.
WPNA Philadelphia, Pa.
WKOK-FM Sunbury, Pa.
WHIM-FM Providence, R.I.
WBBC Jackson, Mi.
WOAY-FM Oak Hill, W.V.
WSAI-FM Cincinnati, Oh.
WLXN Lexington, N.C.
KOL-FM Seattle, Wa.
WIAL Eau Claire, Wi.
WGFA-FM Watseka, Il.
WWAG Carrollton, Al.
KDJW-FM Amarillo, Tx.
KBPO Beaumont, Tx.
WOYE-FM Mayaguez, P.R.
WVFM Lakeland, Fl.
WOTC-FM Savannah, Ga.
WCCA McComb, Ms.
KQMU Salt Lake City, Ut.
CBL-FM Toronto, On.

94.3

KVFM San Fernando, Ca.
KTBT Garden Grove, Ca.
WYBC-FM New Haven, Ct.
WCTO Smithtown, N.Y.
WMER Celina, Oh.
WJLK-FM Asbury Park, N.J.
WRMN-FM Elgin, Il.
WPTN-FM Cookeville, Tn.
KPIK-FM Colorado Springs, Co.
WKCU-FM Corinth, Ms.
WTLD Lake City, Fl.
WDEC-FM Americus, Ga.
WJVM Sterling, Il.
WXTA Greencastle, In.
WTCA-FM Plymouth, In.
KLEB-FM Golden Meadow, La.
WHIC-FM Hardinsburg, Ky.
WARI-FM Abbeville, Al.
KNFB Nowata, Ok.
KPER-FM Gilroy, Ca.
WICO-FM Salisbury, Md.
WATO-FM Oak Ridge, Tn.
KCLU-FM Rolla, Mo.
WEHH-FM Elmira, N.Y.
WGHW-FM Kingston, N.Y.
WMOA-FM Marietta, Oh.
WCDL-FM Carbondale, Pa.
WKBI-FM Ridgway, Pa.
WKSL Greencastle, Pa.
WJJM-FM Lewisburg, Tn.
WDBL-FM Springfield, Tn.
KBRK-FM Brookings, S.D.
KDLK-FM Del Rio, Tx.
KLIS Palestine, Tx.
WPRE-FM Prairie DuChien, Wi.
CJMS-FM Montreal, P.Q.
CRFW-FM Winnipeg, Mb.
CKPR-FM Thunder Bay, On.

94.5

WMUU Greenville, S.C.
KFIG Fresno, Ca.
WDAC Lancaster, Pa.
WNDB-FM Daytona Beach, Fl.
WJBL-FM Holland, Mi.
WTMJ-FM Milwaukee, Wi.
KGAF-FM Gainesville, Tx.
WLAP-FM Lexington, Ky.
KWKH-FM Boston, Ma.
KOOL-FM Phoenix, Az.
WEAF Eden, N.C.
WNFM Naples, Fl.
WRWR Port Clinton, Oh.
WRVA-FM Richmond, Va.
KWOC-FM Poplar Bluff, Mo.
KELT-FM Harlington, Tx.
WEBR-FM Buffalo, N.Y.
WSYR-FM Syracuse, N.Y.
WWSW-FM Pittsburgh, Pa.
KLEF Houston, Tx.
WCEN-FM Mt. Pleasant, Tx.
WCHR Trenton, N.J.
KJCK-FM Junction City, Ks.
WLRW Champaign, Il.
KBMC Eugene, Or.
KMWT-FM Fort Dodge, Ia.
KRXL Kirksville, Mo.
WAPI-FM Birmingham, Al.
KSMB Lafayette, La.
KSTP-FM St. Paul, Mn.
KFLA-FM Scott City, Ks.

KMBR-FM Bismarck, N.D.
KLBK-FM Lubbock, Tx.
KAWY Casper, Wy.
KIT-FM Yakima, Wa.
KLIL Ukiah, Ca.
CKGB-FM Timmins, On.

94.7

KNIS Carson City, Nv.
KSHE Crestwood, Mo.
WNGO-FM Mayfield, Ky.
KMET Los Angeles, Ca.
WPTF-FM Raleigh, N. C.
WLS-FM Chicago, Il.
KSET-FM El Paso, Tx.
WJMD Bethesda, Md.
WDSD Dover, De.
WMAS-FM Springfield, Ma.
WHFI Birmingham, Mi.
KEBC Oklahoma City, Ok.
WFBM-FM Indianapolis, In.
KTTS-FM Springfield, Mo.
WSPO Columbus, Oh.
WFME Newark, N.J.
WEYA Bayamon, P.R.
KFOA Honolulu, Hi.
KVBC Grand Forks, N.D.
KIXY San Angelo, Tx.

94.9

KFMG Des Moines, Ia.
WGIL-FM Galesburg, Il.
KSAN San Francisco, Ca.
WCNW-FM Fairfield, Oh.
WSAB Mt. Carmel, Il.
WOCN-FM Miami Beach, Fl.
WAVO-FM Decatur, Ga.
KLRO San Diego, Ca.
KFMU Kansas City, Mo.
KFAD Cleburne, Tx.
WTMW-FM Mt. Washington, N.H.
WLVE Barboo, Wi.
KUOW Seattle, Wa.
WDBN Medina, Oh.
WPVR Roanoke, Va.
WOFM Greeneville, Tn.
WVIC-FM East Lansing, Mi.
WMSP Harrisburg, Pa.
WOCB-FM West Yarmouth, Ma.
KAYN Tucson, Az.
KADL-FM Pine Bluff, Ar.
KBOS Tulare, Ca.
WOMA Tallahassee, Fl.
WLCY-FM Tampa, Fl.
WDIO-FM Duluth, Mn.
KBIM-FM Roswell, N.M.
WKBQ-FM Utica, N.Y.
CJCB-FM Sydney, N.S.
CKQS-FM Oshawa, On.
CKCH-FM Hull, P.Q.

95.1

WNDA Huntsville, Al.
WRNA Charlotte, N.C.
KNTO Wichita Falls, Tx.
KTRM-FM Beaumont, Tx.
KBBY Ventura, Co.
WGGC Glasgow, Ky.
WINE-FM Brookfield, Ct.
WJAX-FM Jacksonville, Fl.
WRNJ Atlantic City, N.J.
WPTH Fort Wayne, In.
WCHA-FM Chambersburg, Pa.
WTMA-FM Charleston, S.C.
WGPA-FM Bethlehem, Pa.
WMIV S. Bristol twp., N.Y.
WRBS Baltimore, Md.
WFBE Flint, Mi.
WLIP-FM Kenosha, Wi.
WEDA-FM Grove City, Pa.
KAMS Mammoth Spring, Ar.
KWOA-FM Worthington, Mn.
KALJ Yuma, Az.
KPAY-FM Chico, Ca.
KRDO-FM Colorado Springs, Co.
WRNS Kinston, N.C.
WRPC San German, P.R.
WQNZ Natchez, Ms.
CBF-FM Montreal, P.Q.

95.3

KAGE-FM Winona, Mn.
KNOF St. Paul, Mn.
WHRB-FM Cambridge, Ma.
WINA-FM Charlottesville, Va.
KBOY-FM Medford, Or.
KDDD-FM Duma, Tx.
KFNE Big Spring, Tx.
WBZI Xenia, Oh.
KTAO Los Gatos, Ca.
WLKR-FM Norwalk, Oh.
WELR-FM Roanoke, Al.
KVFS Vacaville, Ca.
WRVI Winnebago, Il.
WTLN-FM Apopka, Fl.
WILY-FM Centralia, Il.
WXIV-FM Pekin, Il.
WVTL Monticello, In.
WMSK-FM Morganfield, Ky.
WBFI Southampton, N.Y.
WJTO-FM Bath, Me.
WNIL-FM Niles, Mi.
WSOR Fort Myers, Fl.
KAWB McKinney, Tx.
WILS-FM Shamokin, Pa.
WTTC-FM Towanda, Pa.
WJPA-FM Washington, Pa.
WBHT-FM Brownsville, Tn.
WDEH-FM Sweetwater, Tn.
WWTX Corinth, Ms.
WNHV-FM White River Junction, Vt.
KMAQ-FM Maquoketa, Ia.
KIFG-FM Iowa Falls, Ia.
WKTN-FM Kenton, Oh.
WCRM-FM Clare, Mi.
KLFD-FM Litchfield, Mn.
WWJS Falmouth, Ky.
WBEV-FM Beaver Dam, Wi.
CKDS-FM Hamilton, On.

95.5

KRFM Phoenix, Az.
WOVV Fort Pierce, Fl.
WCLV Cleveland, Oh.
KABC-FM Los Angeles, Ca.
KAIM-FM Honolulu, Hi.
WIFC Wausau, Wi.
KSPL-FM Diboll, Tx.
KZFM Corpus Christi, Tx.
WDHF Chicago, Il.
WFMS Indianapolis, In.
KOKE-FM Austin, Tx.
WBRU Providence, R.I.
WJAC-FM Johnstown, Pa.
WPGC-FM Morningside, Md.
KXL-FM Portland, Or.
WLDM Detroit, Mi.
KRMG Tulsa, Ok.
WHOK-FM Lancaster, Oh.
WHPE-FM High Point, N.C.
KEFC Waco, Tx.
WABC-FM New York, N.Y.
KNEV Reno, Nv.
WROW-FM Albany, N.Y.
KILA Henderson, Nv.
WDOC-FM Prestonburg, Ky.
WNGC Athens, Ga.
WLWM Nashville, Tn.
WTVY-FM Dothan, Al.
KKND Jamestown, N.D.
KGNO-FM Dodge City, Ia.
KYNO-FM Fresno, Ca.
KSNM Santa Fe, N.M.
WFXM Jackson, Ms.

95.7

KLIZ-FM Brainerd, Mn.
KKHI-FM San Francisco, Ca.
WZZM-FM Grand Rapids, Mi.
WBMI Hartford-Meriden, Ct.
WTAR-FM Norfolk, Va.
WFLO-FM Farmville, Va.
WPTW-FM Piqua, Oh.
WCRA-FM Effingham, Il.
KOFO-FM Ottawa, Ks.
WBYU New Orleans, La.
WTSB-FM Lumberton, N.C.
WKBR-FM Manchester, N.H.
WUOA Tuscaloosa, Al.
WHDL-FM Olean, N.Y.
WFID Rio Piedras, P.R.
WMIL-FM Milwaukee, Wi.
KIXI-FM Seattle, Wa.
KIKK-FM Houston, Tx.
WFLN-FM Philadelphia, Pa.
WTAN-FM Clearwater, Fl.
WXRC Hickory, N.C.
KMYO-FM Little Rock, Ar.

Ceretti

95.7

WDMJ-FM Marquette, Mi.
KLDG-FM Hobbs, N.M.
KQYN Twenty-Nine Palms, Ca.
WDEA-FM Ellsworth, Me.
KWWR-FM Mexico, Mo.
KHOW-FM Denver, Co.
KCGM Scobey, Mt.

95.9

KETU Salem, Mo.
KEZR Anaheim, Ca.
WIFN Franklin, In.
WDRN Norwalk, Ct.
WKKD-FM Aurora, Il.
KARL-FM Carlsbad, Ca.
WISZ-FM Glen Burnie, Md.
WLIV-FM Livingston, Tn.
WDXE-FM Lawrenceburg, Tn.
WKAL-FM Rome, N.Y.
KLBS-FM Los Banos, Ca.
KAVI-FM Rocky Ford, Co.
WRSL-FM Stanford, Ky.
WMCB-FM Michigan City, In.
WKUZ Wabash, In.
KILR-FM Estherville, Ia.
KCOB-FM Newton, Ia.
KRSL-FM Russell, Ks.
WFTM-FM Maysville, Ky.
KCRF-FM Winnsboro, La.
KLYQ-FM Hamilton, Mt.
WFLR-FM Dundee, N.Y.
WVOS-FM Liberty, N.Y.
WHFD Archbold, Oh.
WMRF-FM Lewistown, Pa.
WPWR St. George, S.C.
WMTN-FM Morristown, Tn.
WADB Point Pleasant, N.J.
WLOW-FM Aiken, S.C.
WCWC-FM Ripon, Wi.
WDOR-FM Sturgeon Bay, Wi.
KDHL-FM Fairbault, Mn.
KXIT-FM Dalhart, Tx.
WCOF-FM Immokalee, Fl.
KFRW Quincy, Ca.
WWSC-FM Glenn Falls, N.Y.
WTUX Guntersville, Al.
WNPQ New Phil, Oh.
WDQN-FM DuQuoin, Il.
KWAW Webster City, Ia.
KNBO-FM New Boston, Tx.
WUCV Falmouth, Ma.
KRBB-FM Sallisaw, Ok.
KMWT Mineral Wells, Tx.
WHGC Princeton, W.V.
CFPL-FM London, On.
CHFM-FM Calgary, Ab.
CJFM-FM Montreal, P.Q.

96.1

WEST-FM Easton, Pa.
KLCN-FM Blytheville, Ar.
KCTC Sacramento, Ca.
WGCB-FM Red Lion, Pa.
WKTZ-FM Jacksonville, Fl.
WKLS Atlanta, Ga.
KATY-FM San Luis Obispo, Ca.
WSTO Owensboro, Ky.
KROS-FM Clinton, Ia.
WTAE-FM Pittsburgh, Pa.
KZEL-FM Eugene, Or.
WOHS Shelby, N.C.
WSRS Worcester, Ma.
WBCM-FM Bay City, Mi.
WKIX-FM Raleigh, N.C.
WAEL-FM Maricao, P.R.
WGLM Richmond, In.
KZUN-FM Opportunity, Wa.
WBNY Buffalo, N.Y.
KOIL-FM Omaha, Ne.
WHTC-FM Holland, Mi.
KOCY-FM Oklahoma City, Ok.
WLPR Mobile, Al.
KID-FM Idaho Falls, Id.
KIKS-FM Lake Charles, La.
KWAT-FM Watertown, S.D.
KMFM San Antonio, Tx.
KFMC Provo, Ut.
WCHS-FM Charleston, W.V.
KCEE-FM Tucson, Az.
CHFX-FM Halifax, N.S.
CKX-FM Brandon, Mb.

96.3

KFSG Los Angeles, Ca.
KLLL-FM Lubbock, Tx.
WMTS-FM Murfreesboro, Tn.
WTOP-FM Washington, D.C.
WJHR Miami, Fl.
WBBM-FM Chicago, Il.
WQXR-FM New York, N.Y.
WJMC-FM Rice Lake, Wi.
WMVA-FM Martinsville, Va.
WJR-FM Detroit, Mi.
WBAP-FM Fort Worth, Tx.
WBUK Columbus, Oh.
KHFM Albuquerque, N.M.
KFMI Eureka, Ca.
WJIZ Albany, Ga.
WSLI-FM Jackson, Ms.
KKAI Kailua, Hi.
CKWS-FM Kingston, On.

96.5

KFMU-FM Tulsa, Ok.
KLSN Seattle, Wa.
WCRT-FM Birmingham, Al.
WQMS Hamilton, Oh.
KADI St. Louis, Mo.
KFMX San Diego, Ca.
KRON-FM San Francisco, Ca.
KKFM Colorado Springs, Co.
WTIC-FM Hartford, Ct.
WHOO-FM Orlando, Fl.
KXTR Kansas City, Mo.
WPEL-FM Montrose, Pa.
WFMR Milwaukee, Wi.
WBCI-FM Williamsburg, Va.
KBCL-FM Shreveport, La.
WXYZ-FM Houston, Tx.
WDOD-FM Chattanooga, Tn.
WWDB Philadelphia, Pa.
WCUE-FM Akron, Oh.
WCMF Rochester, N.Y.
WSTS Laurinburg, N.C.
KIFM Bakersfield, Ca.
WMT-FM Cedar Rapids, Ia.
WMDD-FM Fajardo, P.R.
KRAV Tulsa, Ok.
KIVE Glendive, Mt.
KNWC-FM Sioux Falls, S.D.
KIOU Corpus Christi, Tx.

96.7

KOBH-FM Hot Springs, S.D.
WROX-FM Madison, In.
KWIZ-FM Santa Ana, Ca.
WSTC-FM Stamford, Ct.
WFOB-FM Fostoria, Oh.
WCOH-FM Newnwn, Ga.
WJOL-FM Joliet, Il.
WRXO-FM Roxboro, N.C.
KCAL-FM Redlands, Ca.
KOZE-FM Lewiston, Id.
WLOI-FM LaPorte, In.
WQWK State College, Pa.
WCSM-FM Celina, Oh.
KOLM Rochester, Mn.
KGVW-FM Belgrade, Mt.
KFSC-FM Franklin, N.C.
WVMG-FM Cochran, Ga.
WLUV-FM Loves Park, Il.
WAZY-FM Lafayette, In.
WAOV-FM Vincennes, In.
WLBJ-FM Bowling Green, Ky.
WPDE-FM Paris, Ky.
WSEK Somerset, Ky.
KMRC-FM Morgan City, La.
WDLC-FM Port Jervis, N.Y.
WHAG-FM Halfway, Md.
WMBN-FM Petosky, Mi.
WSEL-FM Pontotoc, Ms.
KTGR-FM Columbus, Mo.
KDEW-FM DeWitt, Ar.
WSLU Canton, N.Y.
KDLR-FM Devil's Lake, N.D.
WILE-FM Cambridge, Oh.
WCRS-FM Greenwood, S.C.
KSHN Sherman, Tx.
WMKC Oshkosh, Wi.
WVLR Sauk City, Wi.
KANS-FM Larned, Ks.
WPGM-FM Danville, Pa.
CHYM-FM Kitchener, On.

96.9

KNMV-FM McAllen, Tx.
KRAZ Farmington, N.M.
KMEO-FM Phoenix, Az.
KQIP Odessa, Tx.
WDBM-FM Statesville, N.C.
KWAV Monterey, Ca.
KSFM Sacramento, Ca.
WOPI-FM Bristol, Tn.
KRIT Clarion, Ia.
WGR-FM Buffalo, N.Y.
WLBH-FM Matoon, Il.
WCSC-FM Charleston, S.C.
WLOA-FM Braddock, Pa.
WPAD-FM Paducah, Ky.
KALB-FM Alexandria, La.
WJIB Boston, Ma.
WLAV-FM Grand Rapids, Mi.
WLAN-FM Lancaster, Pa.
WKZN Kenosha, Wi.
WEQR Goldsboro, N.C.
WFPG-FM Atlantic City, N.J.
WMNT-FM Manati, P.R.
KDLO-FM Watertown, S.C.
WRSA Decatur, Al.
WIRB-FM Enterprise, Al.
WINK-FM Fort Myers, Fl.
WRJL Jacksonville, Fl.
WMDR Moline, Il.
KULP-FM El Campo, Tx.
WOUR Utica, N.Y.
KCRC-FM Enid, Ok.
WSIP-FM Paintsville, Ky.
CKVL-FM Verdun, P.Q.

97.1

WCOW-FM Sparta, Wi.
KGBS-FM Los Angeles, Ca.
WASH Washington, D.C.
KWXI Fort Worth, Tx.
WNIB Chicago, Il.
KWIC Salt Lake City, Ut.
WJMR-FM New Orleans, La.
WABI-FM Bangor, Me.
WWJ-FM Detroit, Mi.
KTCR-FM Minneapolis, Mn.
WNBC-FM New York, N.Y.
WMPS-FM Memphis, Tn.
WBNS-FM Columbus, Oh.
KORK-FM Las Vegas, Nv.
KPAM-FM Portland, Or.
WREO-FM Ashtabula, Oh.
WQMG Greensboro, N.C.
WSVL-FM Shelbyville, In.
KVRL-FM Billings, Mt.
KWEH Camden, Ar.
WFOX Gainesville, Ga.
WOKK-FM Meridian, Ms.
KCJB-FM Minot, N.D.
CJBQ-FM Belleville, P.Q.
CKOK-FM Penticton, B.C.

97.3

KFMI Eureka, Ca.
KPLA Plainview, Tx.
WMVB-FM Millville, N.J.
KEAR San Francisco, Ca.
KRNW Boulder, Co.
WIOD-FM Miami, Fl.
WXLM SAVANNAH, Ga.
WKBC-FM North Wilkesboro, N.C.
KVOP-FM Plainview, Tx.
KDMI Des Moines, Ia.
WROY-FM Carmi, Il.
WIBW-FM Topeka, Ks.
WBSM-FM New Bedford, Ms.
WISN-FM Milwaukee, Wi.
KUPK-FM Garden City, Ks.
WKWK-FM Wheeling, W.V.
WHCU-FM Ithaca, N.Y.
KTNT-FM Tacoma, Wa.
WGH-FM Newport News, Va.
WHP-FM Harrisburg, Pa.
KEEZ San Antonio, Tx.
KSEA San Diego, Ca.
WMGR-FM Bainbridge, Ga.
WKJG-FM Fort Wayne, In.
KWFC Springfield, Mo.
KRWL-FM Carson City, Nv.
KAFE-FM Santa Fe, N.M.
WHSL-FM Wilmington, N.C.
KSOO-FM Sioux Falls, S.D.

97.5

WHLF-FM South Boston, Va.
KPOI-FM Honolulu, Hi.
KTHS-FM Santa Barbara, Ca.
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.V.
KMOD Tulsa, Ok.
KAYD Beaumont, Tx.
WAKR-FM Akron, Oh.
WTOA Trenton, N.J.
WJIM-FM Lansing, Mi.
WOOR Oxford, Ms.
WMOB-FM Mobile, Al.
WEPM-FM Martinsburg, W.V.
WXKL Winter Haven, Fl.
WHAS-FM Louisville, Ky.
KGUS Hot Springs, Ar.
KNXR Rochester, Mn.
WDNH Dover, N.H.
WNCQ Watertown, N.Y.
WEZK Knoxville, Tn.
KINT-FM El Paso, Tx.
KSJT San Angelo, Tx.
KWTX-FM Waco, Tx.
CJOB-FM Winnipeg, Mb.

97.7

KCVR-FM Lodi, Ca.
WFST-FM Caribou, Me.
WBET-FM Brockton, Ma.
WBUT-FM Butler, Pa.
KXKX Lodi, Ca.
WOXR Oxford, Oh.
KPEN Los Altos, Ca.
KWHP Edmond, Ok.
WFRI Auburn, Al.
WEZZ Clanton, Al.
KDOL-FM Mojave, Ca.
KSPN Aspen, Ca.
WICH-FM Norwich, Ct.
WFOY-FM St. Augustine, Fl.
WKEU-FM Griffin, Ga.
WROM-FM Rome, Ga.
WVOP-FM Vidalia, Ga.
WVPC-FM Monmouth, Il.
WIZZ-FM Streator, Il.
KAPB-FM Marksville, La.
KNOC-FM Natchitoches, La.
WMTE-FM Manistree, Mi.
WMIC-FM Sandusky, Mi.
KMPL-FM Sikeston, Mo.
KFBD-FM Waynesville, Mo.
KUVR-FM Holdrege, Ne.
WHVW-FM Hyde Park, N.Y.
KHBT Humboldt, Ia.
WTGN Lima, Oh.
WVSC-FM Somerset, Pa.
WGCR-FM Wellsboro, Pa.
KKCA Fulton, Mo.
KPUP Kingsville, Tx.
WNTG-FM Grundy, Va.
WKLD Oneonta, Al.
WBBA-FM Pittsfield, Il.
KCLN-FM Clinton, Ia.
CBUF-FM Vancouver, B.C.
CKGM-FM Montreal, P.Q.
CKWM-FM Kentville, N.S.
CKTB-FM St. Catherine's, On.

97.9

KFMU Kansas City, Mo.
KDVR Sioux City, Ia.
KMJR-FM Fresno, Ca.
KNOB Long Beach, Ca.
WMUM Palm Beach, Fl.
WPEG Concord, N.C.
WSIX-FM Nashville, Tn.
WSDM Chicago, Il.
KUPD-FM Tempe, Az.
WLOB-FM Portland, Me.
WBAL-FM Baltimore, Md.
WVCD Hazleton, Pa.
WMZK Detroit, Mi.
WSPT-FM Stevens Point, Wi.
KFMY Eugene, Or.
KFMK Houston, Tx.
WFAA-FM Dallas, Tx.
WCOS—FM Columbia, S.C.
WEVD-FM New York, N.Y.
WROC-FM Rochester, N.Y.
KBOI-FM Boise, Id.
WNCI Columbus, Oh.
WQXM Clearwater, Fl.
WXTO Grand Rapids, Mi.
KFH-FM Wichita, Ks.
WBAQ Greenville, Ms.
KFNW-FM Fargo, N.D.
KVSR Rapid City, S.D.
KOYL Odessa, Tx.
KFBC-FM Cheyenne, Wy.
KKEA Hilo, Hi.

Ceretti

98.1

KABL-FM San Francisco, Ca.
KHAK-FM Cedar Rapids, Ia.
WTOF Canton, Oh.
WBOB-FM Galex, Va.
KTAL-FM Texarkana, Tx.
WBFM Seneca, S.C.
KOSE-FM Osceola, Ar.
WAFB-FM Baton Rouge, La.
WNBY-FM New Bedford, Ma.
WSAM-FM Saginaw, Mi.
WNBX Andalusia, Al.
KUDL-FM Kansas City, Ks.
KRCH St. Louis, Mo.
WNBF-FM Binghamton, N.Y.
WFBC-FM Altoona, Pa.
WQSM Fayetteville, N.C.
WISM-FM Madison, Wi.
WRAY-FM Princeton, In.
KHQ-FM Spokane, Wa.
KING-FM Seattle, Wa.
WCAU-FM Philadelphia, Pa.
WTVR-FM Richmond, Va.
KDIG San Diego, Ca.
WLEX-FM Lexington, Ky.
KCCO-FM Lawton, Ok.
WHWB-FM Rutland, Vt.
CHRC-FM Quebec, P.Q.
CKUA-FM Edmonton, Ab.

98.3

KFMZ Columbia, Mo.
KQXX McAllen, Tx.
KBOB West Covina, Ca.
KHFI-FM Austin, Tx.
WLAD-FM Danbury, Ct.
WMLS-FM Sylacauga, Al.
WHAI-FM Greenfield, Ma.
WPRS-FM Paris, Il.
WCTC-FM New Brunswick, N.J.
WHLI-FM Hempstead, N.Y.
WTNC-FM Thomasville, N.C.
WHUB-FM Cookeville, Tn.
WOGM Bellefontaine, Oh.
WJMK Plainfield, In.
Woli Ottawa, Il.
WCNA-FM Scottsboro, Al.
KTLO-FM Mountain Home, Ak.
WFAV Cordele, Ga.
WJAT-FM Swainsboro, Ga.
WBYS-FM Canton, Il.
WARU-FM Peru, In.
WDUZ-FM Green Bay, Wi.
KABI-FM Abilene, Ks.
WZMF Menomonee Falls, Wi.
KYEA West Monroe, La.
WTLV-FM Waterville, Me.
WWDR-FM Murfreesboro, N.C.
WIUC Winchester, In.
KFON Sparks, Nv.
WLNH-FM Laconia, N.H.
WEKT Hammondsport, N.Y.
WLGN-FM Logan, Oh.
WVMO Monroe, Mi.
KLCO-FM Poteau, Ok.
WMGL Pulaski, Tn.
KORA-FM Bryan, Tx.
KWWM Stephenville, Tx.
WLLL-FM Lynchburg, Va.
WZFM Charles Town, W.V.
WNBI-FM Park Falls, Wi.
KBFM-FM Spearman, Tx.
WRMF-FM Titusville, Fl.
WESA-FM Charleroi, Pa.
CBW-FM Winnipeg, Mb.
CFFM-FM Kamloops, B.C.
CKLC-FM Kingston, On.

98.5

KRSN-FM Los Altos, N.M.
KLUC-FM Las Vegas, Nv.
KRPM San Jose, Ca.
KFML-FM Denver, Co.
WSB-FM Atlanta, Ga.
WANG Coldwater, Mi.
KZAP Sacramento, Ca.
WPRM-FM San Juan, P.R.
WROR Boston, Ma.
WJGS Houghton Lake, Mi.
KTIS-FM Minneapolis, Mn.
WAEF Cincinnati, Oh.
WKNA Charleston, W.V.
WKPT-FM Kingsport, Tn.
WHLD-FM Niagara Falls, N.Y.
WYCR York-Hanover, Pa.
WBRE-FM Wilkes-Barre, Pa.
WERE-FM Cleveland, Oh.
KBMS Billings, Mt.
WELL-FM Freeport, Il.
KPAC-FM Port Arthur, Tx.
KQXX McAllen, Tx.
WGNE Panama City, Fl.

KDNA Delano, Ca.
KNEU El Centro, Ca.
WWOM New Orleans, La.
WELO-FM Tupelo, Ms.
KRCB-FM Council Bluffs, Ia.
KPOK-FM Portland, Or.
CFMS-FM Victoria, B.C.
CBHM-FM Richibucto, N.B.

98.7

WNOR-FM Norfolk, Va.
KLOH-FM Pipestone, Mn.
WMOD Washington, D.C.
WARN-FM Fort Pierce, Fl.
WFMT Chicago, Il.
KTAR-FM Phoenix, Az.
KNUS Dallas, Tx.
WHOP-FM Hopkinsville, Ky.
WWVA-FM Wheeling, W.V.
WBFG Detroit, Mi.
KCPX-FM Salt Lake City, Ut.
WOR-FM New York, N.Y.
WMDE Greensboro, N.C.
WBEU-FM Beaufort, S.C.
KQWB-FM Moorhead, Mn.
WQMV Vicksburg, Mo.
KWTO-FM Springfield, Mo.

98.9

KRNY-FM Kearney, Ne.
KCBS-FM San Francisco, Ca.
WBGM Tallahassee, Fl.
WCME-FM Brunswick, Me.
WHBF-FM Rock Island, Il.
KCLO-FM Leavenworth, Ks.
WFMI Montgomery, Al.
WSLM-FM Salem, In.
KBOA-FM Kennett, Mo.
WPBS Philadelphia, Pa.
WTMB-FM Tomah, Wi.
WHFM Rochester, N.Y.
KBYE Oklahoma City, Ok.
KBBX Seattle, Wa.
WKBN-FM Youngstown, Oh.
WSPA-FM Spartanburg, S.C.
WJOY-FM Burlington, Vt.
WERT-FM Van Wert, Oh.
WSIP-FM Paintsville, Ky.
KVMN Pueblo, Co.
WJML-FM Petosky, Mi.
CBFL-FM Maniwaki, P.Q.
CFBC-FM St. John, N.B.
CKRD-FM Red Deer, Ab.

99.1

KGVM-FM Idaho Falls, Id.
KBBL Riverside, Ca.
KXFM Santa Maria, Ca.
WNHC-FM New Haven, Ct.
WENC-FM Whiteville, N.C.
KSCO-FM Santa Cruz, Ca.
WMAZ-FM Macon, Ga.
WIAI Danville, Il.
WEND-FM Ebensburg, Pa.
WPMP-FM Pascagoula, Ms.
WNAV-FM Annapolis, Md.
WPLM-FM Plymouth, Ms.
WFMK East Lansing, Mi.
WKOP-FM Binghamton, N.Y.
WNUW Milwaukee, Wi.
WAHR Huntsville, Al.
KFUO Clayton, Mo.
KODA-Fm Houston, Tx.
WSLS-FM Roanoke, Va.
WAWZ-FM Zarephath, N.J.
KPNW-FM Eugene, Or.
WHIO-FM Dayton, Oh.
WFRO-FM Fremont, Oh.
WKJB-FM Maraguez, P.R.
WEDR Miami, Fl.
KMAG Fort Smith, Ar.
WQIK-FM Jacksonville, Fl.
KNIR-FM New Iberia, La.
KEYC-FM Mankato, Mn.
WSWG Greenwood, Ms.
KMTY-FM Clovis, N.M.

99.3

KFMN Abilene, Tx.
KFGQ-FM Boone, Ia.
WFTW-FM Ft. Wayne Beach, Fl.

KFRN-FM Brownwood, Tx.
KRIL-FM El Dorado, Ar.
WLPO-FM LaSalle, Il.
WSFM Harrisburg, Pa.
WMFC-FM Monroeville, Al.
KJAX Stockton, Ca.
WEZY-FM Cocoa, Ca.
WCON-FM Cornelia, Ga.
WDUK Havanna, Il.
WSTR-FM Sturgis, Mi.
WSWW-FM Plattville, Wi.
WPDM-FM Potsdam, N.Y.
KJRL Liberal, Ks.
WYGO-FM Corbin, Ky.
WHMP-FM Northampton, Ma.
KBTC-FM Houston, Mo.
KVLV-FM Fallon, Ne.
WLSN Elizabethton, Tn.
WRCS-FM Ahoskie, N.C.
WXNT-FM Portsmouth, Oh.
KLOR-FM Ponca City, Ok.
WAEW-FM Crossville, Tn.
WPQR-FM Uniontown, Pa.
WAKN-FM Aiken, S.C.
WSCH Aurora, In.
WDXI-FM Lexington, Tn.
WLCK-FM Scottsville, Ky.
KPLT-FM Paris, Tx.
WFFV Front Royal, Va.
WSSV-FM Petersburg, Va.
WMPT-FM South Williamsport, Pa.
WCEF-FM Parkersburg, W.V.
WNRR Neenah-Menasha, Wi.
WIGM-FM Medford, Wi.
WHBN-FM Harrodsburg, Ky.
WSFW-FM Seneca Falls, N.Y.
WELV-FM Ellenville, N.Y.
WCMJ Chester, S.C.
WKIV-FM Fort Knox, In.
KWAY-FM Waverly, Ia.
CKLG-FM Vancouver, B.C.

99.5

KDEN-FM Denver, Co.
KLUR Wichita Falls, Ks.
KFMM Tucson, Az.
WIVI-FM Christiansted, St. Croix
WDCX Buffalo, N.Y.
KHOF Los Angeles, Ca.
KVOD Denver, Co.
WBNM Albuquerque, N.M.
WJBR-FM Wilmington, De.
WGAY Washington, D.C.
WTCX St. Petersburg, Fl.
WBKW Beckley, W.V.
KHEN-FM Henryetta, Ok.
WEFM Chicago, Il.
WTAD-FM Quincy, Il.
WSON-FM Henderson, Ky.
KISS San Antonio, Tx.
KCWM Fort Worth, Tx.
WLLH-FM Lowell, Ma.
WABX Detroit, Mi.
WLOL-FM Minneapolis, Mn.
WNCR Cleveland, Oh.
WGFM Schenectady, N.Y.
WBAI New York, N.Y.
WMFR-FM High Point, N.C.
WSMJ Greenfield, In.
KLEM-FM LeMars, Ia.
KPLC-FM Lake Charles, La.
WRNO New Orleans, La.
KJIB Portland, Or.
KWGO-FM Lubbock, Tx.
CJCA-FM Edmonton, Ab.

99.7

KNBR-FM San Francisco, Ca.
WNMI-FM Columbus, Oh.
WSVC Midland, Mi.
KFMH Muscatine, Ia.
WYFI Norfolk, Va.
WMC-FM Memphis, Tn.
WJAS-FM Pittsburgh, Pa.
WLTA-FM Atlanta, Ga.
KMBR Kansas City, Mo.
WKLO-FM Louisville, Ky.
WILO-FM Frankfort, In.
WRKB-FM Kannapolis, N.C.
WSMR-FM Manchester, Tn.
WOOF-Fm Dothan, Al.
WJMS-FM Ironwood, Mi.
WJMI Jackson, Ms.
KIOO Poterville, Ca.
CFFM-FM Mount Timothy, B.C.

99.9

WKRG-FM Mobile, Al.
KRFD Marysville, Ca.
KOLA San Bernadino, Ca.

KGUD-FM Santa Barbara, Ca.
KTQM-FM Clovis, N.M.
WJZZ Bridgeport, Ct.
WKAK Kankakee, Il.
KTWM-FM El Paso, Tx.
KPEL-FM Lafayette, La.
WEBQ-FM Harrisburg, Il.
WACO-FM Waco, Tx.
WTHI-FM Terre Haute, In.
KSKG Salina, Ks.
WQRC Barnstable, Ma.
WVUD-FM Kettering, Oh.
WHFB-FM Benton Harbor, Mi.
WLOS-FM Asheville, N.C.
WKRT-FM Cortland, N.Y.
WEAV-FM Plattsburgh, N.Y.
KXLY-FM Spokane, Wa.
KFAB-FM Omaha, Ne.
WKLR-FM Toledo, Oh.
WVAF Charleston, W.V.
WJVL Janesville, Wi.
KISW Seattle, Wa.
WEEX-FM Easton, Pa.
WWFM Erie, Pa.
WFRE Frederick, Md.
WQBS-FM San Juan, P.R.
WWOG Boca Raton, Fl.
KLUR Wichita Falls, Tx.
KTCS-FM Fort Smith, Ar.
KAUS-FM Austin, Mn.
KVOX-FM Moorhead, Mn.
WPGF-FM Burgaw, N.C.
KROB-FM Robstown, Tx.
CKFM-FM Toronto, On.

100.1

WMNB-FM North Adams, Ma.
WCRD Bluffton, In.
WIZO-FM Franklin, Tn.
WKNT-FM Kent, Oh.
KYFM Bartlesville, Ok.
WLBR-FM Lebanon, Pa.
WVAM-FM Altoona, Pa.
WWOD-FM Lynchburg, Va.
KPWD Plentywood, Mt.
WXLE Phenix City, Al.
WTUN Selma, Al.
WAFM Angola, In.
WMCD Statesboro, Ga.
WLOV-FM Washington, Ga.
WKAI-FM Macomb, Il.
WGLC-FM Mendota, Il.
WTZE-FM Tazewell, Va.
WBCH-FM Hastings, Mi.
WSHN-FM Fremont, Mi.
KMHL-FM Marshall, Mn.
WRIL Grenada, Ms.
KSWM-FM Aurora, Mo.
WKDK-FM Kingstree, S.C.
WTRO-FM Dyersburg, Tn.
WDEB-FM Jamestown, Tn.
KGRI-FM Henderson, Tx.
WIVE-FM Ashland, Va.
WVCM Carrollton, Ky.
KYSS-FM Missoula, Mt.
WGLB-FM Port Washington, Wi.
WTCH-FM Shawano, Wi.
WPDR-FM Portage, Wi.
WESO-FM Southbridge, Ma.

100.3

KEEN-FM San Jose, Ca.
KFOX-FM Los Angeles, Ca.
KLIR-FM Denver, Co.
WFAN Washington, D.C.
WKIS-FM Orlando, Fl.
WKOF Hopkinsville, Ky.
WFMF Chicago, Il.
WCNB-FM Connorsville, In.
WHO-FM Des Moines, Ia.
WXUR-FM Media, Pa.
KTOP-FM Topeka, Ks.
WNSE-FM Laurel, Ms.
WKNR-FM Dearborn, Mi.
WCTS-FM Minneapolis, Mn.
WOKZ-FM Alton, Il.
KILT-FM Houston, Tx.
KBAY San Jose, Ca.
WVNJ-FM Newark, N.J.
WNOX-FM High Point, N.C.
WCLT-FM Newark, Oh.
KQFM Portland, Or.
WZPR Meadville, Pa.
KBOX-FM Dallas, Tx.
WVNA-FM Tuscumbia, Al.
KSL-FM Salt Lake City, Ut.
WPFM Portsmouth, N.H.
WIVA-FM Aguadilla, P.R.
KGMR-FM Jacksonville, Ar.
WXOA Plantation Key, Fl.
KDBS-FM Alexandria, La.
KMAP Albuquerque, N.M.
KELE Lamesa, Tx.
KBER-FM San Antonio, Tx.
KWIQ-FM Moses Lake, Wa.
CFRN-FM Edmonton, Ab.

Ceretti

100.5

WHMA-FM Anniston, Al
KEBR Sacramento, Ca.
WVOR Rochester, N.Y.
WEAI Jacksonville, Il.
WOMP-FM Bellaire, Oh.
WKEE-FM Huntington, W.V.
WLBG-FM Laurens, S.C.
KJAK Oklahoma City, Ok.
WFIN-FM Findlay, Oh.
WCMS-FM Norfolk, Va.
WRCH-FM New Britain, Ct.
WWKI Kokomo, In.
CJIC-FM Sault Ste. Marie, On.
CKOT-FM Tillsonburg, On.

100.7

KFMB-FM San Diego, Ca.
WCLE-FM Cleveland, Oh.
WLNA-FM Peekskill, N.Y.
WITL-FM Lansing, Mi.
WDAE-FM Tampa, Fl.
WMJR Ft. Lauderdale, Fl.
KGBI-FM Omaha, Ne.
WVTS Terre Haute, In.
WFIM Elkhart, In.
WTTR-FM Westminister, Md.
KVEN-FM Ventura, Ca.
WCOP-FM Boston, Ma.
WRAC-FM Racine, Wi.
KIRO-FM Seattle, Wa.
WSVA-FM Harrisonburg, Va.
WCMC-FM Wildwood, N.J.
WFMZ Allentown, Pa.
WFMA Rocky Mount, N.C.
WMMS Cleveland, Oh.
WEEC-FM Springfield, Oh.
WNUF New Kensington, Pa.
WRSJ-FM Bayamon, P.R.
KDOT-FM Scottsdale, Az.
KRSA-FM Salinas, Ca.
WCOA-FM Pensacola, Fl.
WGIG-FM Brunswick, Ga.
KXIC-FM Iowa City, Ia.
WQXY-FM Baton Rouge, La.
KCMT-FM Alexandria, Mn.
WDMS Greenville, Ms.
KGMO-FM Cape Girardeau, Mo.
KIMP-FM Mt. Pleasant, Tx.
WBIZ-FM Eau Claire, Wi.
KASE Austin, Tx.
CBM-FM Montreal, P.Q.
CHIN-FM Toronto, On.

100.9

WABZ-FM Albemarle, N.C.
KTIM-FM San Rafael, Ca.
WIFM-FM Elkin, N.C.
WHKK Erlanger, Ky.
WCJM West Point, Ga.
WTOT-FM Marianna, Fl.
WPGA-FM Perry, Ga.
WBRN-FM Big Rapids, Mi.
KBEW-FM Blue Earth, Mn.
WQIX Horseheads, N.Y.
WWMS Bryan, Oh.
WIBO Waverly, Oh.
WMLP-FM Milton, Pa.
WALD-FM Walterboro, S.C.
WNON Lebanon, In.
WKEY-FM Covington, Va.
WRCO-FM Richland Center, Wi.
KSRT Tracy, Ca.
WMPI Scottsburg, In.
WMFD-FM Wilmington, N.C.
WMDC-FM Hazelhurst, Ms.
WAKM Bedford, Pa.
WNNT-FM Warsaw, Va.
WTYD New London, Ct.
WWLV Versailles, Ky.
WHYP-FM North East, Pa.
WGSY Peru, Il.
CHEC-FM Lethbridge, Ab.
CKCL-FM Truro, N.S.

101.1

KAOL-FM Carrollton, Mo.
WFMH-FM Cullman, Al.
KHJ-FM Los Angeles, Ca.
KAFI Auburn, Ca.
WWDC-FM Washington, D.C.
WBAY-FM Green Bay, Wi.
KLOL Houston, Tx.
WRR-FM Dallas, Tx.
WMAW-FM Chicago, Il.

101.3

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

101.5

WEOK-FM Poughkeepsie, N.Y.
KBKB San Diego, Ca.
KGFM Bakersfield, Ca.
WAYZ-FM Waynesboro, Pa.
WWPB-FM Miami, Fl.
WBIE-FM Marietta, Ga.
WBNQ 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, Wa.
WLKW-FM Providence, R.I.
WPIT-FM Pittsburgh, Pa.
WSPD-FM Toledo, Oh,
WRAL-FM Raleigh, N.C.
WBJH Trenton, N.J.
WJCW-FM Johnson City, Tn.
KTXR Springfield, Mo.
WSBT-FM South Bend, In.
WISA-FM Isabela, P.R.
WCIL-FM Carbondale, Il.
KHEP Phoenix, Az.
KAMB Merced, Ca.
WONF Pensacola, Fl.
WYNR-FM Brunswick, Ga.
WYNK-FM Baton Rouge, La.
KLAW Lawton, Ok.
KFLY-FM Corvallis, Or.
KNUE Tyler, Tx.
CHEX-FM Peterborough, On.
CJBR-FM Rimouski, P.Q.

101.7

KYTE Livermore, Ca.
WTAY-FM Robinson, Il.
WLYN-FM Lynn, Ma.
WKSN-FM Jamestown, N.Y.
WCOM-FM Urbana, Oh.
WJER-FM Dover, Oh.
WFLW-FM Monticello, Ky.
KLRB Carmel, Ca.
KNLT Truckee, Ca.
WCNH-FM Quincy, Fl.
WRBN-FM Warner-Robins, Ga.
WTGR-FM Myrtle Beach, S.C.
WIXN-FM Dixon, Il.
WBMP Elwood, In.
WCMX Fort Wayne, In.
WGMR-FM Tyrone, Pa.
WHNS Manchester, N.H.
WCAC Anderson, S.C.
WRED Youngstown, Oh.
KOIN-FM Portland, Or.
KRMD-FM Shreveport, La.
WXYZ-FM Detroit, Mi.
WMRY East St. Louis, Il.
WKIC-FM Hazard, Ky.
WBBB-FM Burlington, N.C.
WCBS-FM New York, N.Y.
WDVR Philadelphia, Pa.
KNAF-FM Fredericksburg, Tx.
WCKS Cocoa Beach, Fl.
KOSI-FM Denver, Co.
WNOE-FM New Orleans, La.
WESP Charlotte Amalie, V.I.
KWAM-FM Memphis, Tn.
KJSK-FM Columbus, Ne.
KFJB-FM Marshalltown, Ia.
WRUS-FM Russellville, Ky.
CFMI-FM New Westminister, B.C.
CJET-FM Smiths Falls, On.

101.9

KQXT San Antonio, Tx.
KRYT-FM Colorado Springs, Co.
WNES-FM Central City, Ky.
KBTM-FM Jonesboro, Ar.
KARM-FM Fresno, Ca.
KUTE Glendale, Ca.
WAVT-FM Pottsville, Pa.
KFNB Oklahoma City, Ok.
WKRC-FM Cincinnati, Oh.
WRXV Skokie, Il.
WGNC-FM Gastonia, N.C.
WPIX-FM New York, N.Y.
WJIV Cherry Valley, N.Y.
WTOW-FM Baltimore, Md.
WDET-FM Detroit, Mi.
WHHY-FM Montgomery, Al.
KRGN Las Vegas, Nv.
KBOC Ogden, Ut.
WMFJ-FM Daytona Beach, Fl.
WHEW Fort Myers, Fl.
WVEM Springfield, Il.
KNWS-FM Waterloo, Ia.
KNOE-FM Monroe, La.
WWL-FM New Orleans, La.
WPOR-FM Portland, Me.
WLDR Traverse City, Mi.
KINK Portland, Or.
KCOR-FM San Antonio, Tx.
WVOW-FM Logan, W.V.
WAJR-FM Morgantown, W.V.
WRIG-FM Wausau, Wi.
WLEO-FM Ponce, P.R.
WCIB Falmouth, Ma.
CFFM-FM Savona, B.C.

102.1

KLYX Clear Lake City, Tx.
KUDE-FM Oceanside, Ca.
KDFC San Francisco, Ca.
WSEV-FM Sevierville, Tn.
KFTW-FM Ft. Worth, Tx.
KWKO Anchorage, Ak.
WDRM Decatur, Al.
WMUK Kalamazoo, Mi.
WAWA-FM Milwaukee, Mn.
WRNL-FM Richmond, Va.
WDAF-FM Kansas City, Mo.
WWMO-FM Reidsville, N.C.
WDOK Cleveland, Oh.
WIMA-FM Lima, Oh.
WCED-FM DuBois, Pa.
WFIL-FM Philadelphia, Pa.
WDAN-FM Danville, Il.
KEEY St. Paul, Mn.
KPQ-FM Wenatchee, Wa.
KSKU Hunchinson, Ks.
WCRX Springfield, Ma.
KIZZ-FM El Paso, Tx.
CHIC-FM Brampton, On.

102.3

WEFA Waukegan, Il.
WBAB-FM Babylon, N.Y.
WHYL -FM Carlisle, Pa.
WHFS Bethesda, Md.
KJLH Long Beach, Ca.
WOLD-FM Marion, Va.
WLOC-FM Munfordville, Ky.
WLVP Franklin, N.J.
WLRS Louisville, Ky.
KCAB-FM Dardanelle, Ar.
KLOV-FM Loveland, Co.
WRTM Blountstown, Fl.
WYRL Melbourne, Fl.
WXBM-FM Milton, Fl.
KAVR-FM Apple Valley, Ca.
WRGO-FM Rome, Ga.
WMVG-FM Milledgeville, Ga.
WTAS Crete, Il.
WSAL-FM Logansport, In.
WGOH-FM Grayson, Ky.
WCBL-FM Benton, Ky.
WTAM Gulfport, Ms.
WKAJ-FM Saratoga Springs, N.Y.
WJSK Lumberton, N.C.
WPOS-FM Holland, Oh.
KCES Eufaula, Ok.
KVRF Vermillion, S.D.
WDKN-FM Dickson, Tn.
WIRJ-FM Humboldt, Tn.
WGUS-FM Augusta, Ga.
KTXJ-FM Jasper, Tx.
WWSR-FM St. Albans, Vt.
KYSD Waynesville, Mo.
WQTC-FM Two Rivers, Wi.
WGBM Viroqua, Wi.
WLJC Beattyville, Ky.
WTRS-FM Dunnellon, Fl.
WCBK-FM Martinsville, In.
WCYN-FM Cynthiana, Ky.
WRIO-FM Cape May, N.J.
KDEX-FM Dexter, Mo.
KBRI-FM Brinkley, Ar.
WGCO Buford, Ga.
KCTM Canton, Mo.

102.5

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

102.7

KKNU Fresno, Ca.
KRHM Los Angeles, Ca.
KCMS-FM Manitou Springs, Co.
WBRB-FM Mt. Clemens, Mi.
WGLD Oak Park, Il,
WRAK-FM Williamsport, Pa.
WLEC-FM Sandusky, Oh.
KJEM-FM Oklahoma City, Ok.
WCAO-FM Baltimore, Md.
KORD-FM Richland, Wa.
WKBN-FM Cincinnati, Oh.
WNEW-FM New York, N.Y.
WPFR Terre Haute, In.
WRBD-FM Pompano Beach, Fl.
KWHG Lincoln, Ne.
WAAV Wilmington, N.C.
WREC-FM Memphis, Tn.
KTFM San Antonio, Tx.
WTIO Charleston, W.V.
WRVM Suring, Wi.
CHLT-FM Sherbrooke, P.Q.

Ceretti

102.9

KEIR Dallas, Tx.
WRBL-FM Columbus, Ga.
WRIT-FM Milwaukee, Wi.
WHAL-FM Shelbyville, Tn.
KPAT-FM Berkeley, Ca.
WDRC-FM Hartford, Ct.
WIVY-FM Jacksonville, Fl.
KQUE Houston, Tx.
WFUR-FM Grand Rapids, Mi.
WSOY-FM Decatur, Il.
WBLY-FM Springfield, Oh.
WNRZ Ann Arbor, Mi.
WPIC-FM Sharon, Pa.
WCUM-FM Cumberland, Md.
WPEN-FM Philadelphia, Pa.
WJCX-FM Jackson, Ms.
WHKY-FM Hiclory, N.C.
WCCO-FM Minneapolis, Mn.
KHOZ-FM Harrison, Ar.
WOWI-FM Norfolk, Va.
KBBW San Diego, Ca.
KFMP Cape Girardeau, Mo.
WMHR Syracuse, N.Y.
KELA-FM Centralia, Wa.
WCHQ-FM Camuy, P.R.
WGAN-FM Portland, Me.
KMFL-FM Marshall, Mo.
CHGB-FM La Pocatiere, P.Q.

103.1

KFIL-FM Preston, Mn.
KROA Aurora, Ne.
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.
KTHO-FM South Lake Tahoe, Ca.
WQTI Dunn, N.C.
WLMC Okeechobee, Fl.
WLOQ Winter Park, Fl.
WHLT-FM Huntington, In.
WSTM St. Matthews, Ky.
WWXL-FM Manchester, Ky.
WMBC-FM Columbus, Ms.
WHRL Albany, N.Y.
WRMN Newburgh, N.Y.
KRSB Roseburg, Or.
WQMU Indiana, Pa.
WMAJ-FM State College, Pa.
KJAM-FM Madison, S.D.
WSTN Florence, S.C.
KMUL-FM Muleshoe, Tx.
WZZW Augusta, Ga.
WCUL Culpeper, Va.
WTAP-FM Parkersburg, W.V.
WHME South Bend, In.
WJRS-FM Jamestown, Ky.
WTHM-FM Lapeer, Mi.
WAUZ Henderson, Ky.
KWXY-FM Cathedral City, Ca.
WPOK-FM Pontiac, Il.
WJBW-FM Hampton, S.C.
WOSM Ocean Springs, Ms.
CBC-FM Charlottetown, P.E.

103.3

WAJM-FM Montgomery, Al.
KBEE-FM Modesto, Ca.
WPLO-FM Atlanta, Ga.
WGEE-FM Indianapolis, In.
KMOX-FM St. Louis, Mo.
WWRW Wisconsin Rapids, Wi.
WVJE-FM Caguas, P.R.
WSBA-FM York, Pa.
KMUZ Santa Barbara, Ca.
WESR-FM Tasley, Va.
WEEI-FM Boston, Ma.
WCRF Cleveland, Oh.
WBTM-FM Danville, Va.
WXSL-FM Buffalo, N.Y.
WKDA-FM Nashville, Tn.
KBRF-FM Fergus Falls, Mn.
KPRS-FM Kansas City, Mo.
KUKI-FM Ukla, Ca.
WBRD-FM Bradenton, Fl.
WPRB Princeton, N.J.
KTFC Sioux City, Ia.
WTGI Hammond, La.
WKFR-FM Battle Creek, Mi.
KORU Tulsa, Ok.
KEFM Nacogdoches, Tx.
KOUL Sinton, Tx.
WQVM Huntington, W.V.
CBO-FM Ottawa, On.

103.5

WEZL Charleston, S.C.
KOA-FM Denver, Co.
KOST Los Angeles, Ca.
KRSP-FM Salt Lake City, Ut.
WGMS-FM Washington, D.C.
WSRF-FM Ft. Lauderdale, Fl.
WSTV-FM Steubenville, Oh.
WKFM Chicago, Il.
WMUZ Detroit, Mi.
WHOH Hamilton, Oh.
KYSM-FM Mankato, Mn.
WTFM Lake Success, N.Y.
WNAU-FM New Albany, Ms.
WBIR-FM Knoxville, Tn.
WTCM-FM Traverse City, Mi.
CHQM-FM Vancouver, B.C.

103.7

KSFX San Francisco, Ca.
WMGM Atlantic City, N.J.
KVIL-FM Dallas-Highland Park, Tx.
WMOU-FM Berlin, N.H.
WIXL-FM Newton, N.J.
KARK-FM Little Rock, Ar.
WTOS Wauwatosa, Wi.
KJAN-FM Atlantic, Ia.
WTAX-FM Springfield, Il.
WFIU Bloomington, In.
WERI-FM Westerly, R.I.
WOC-FM Davernport, Ia.
WASA-FM Havre de Grace, Md.
KPRM-FM Park Rapids, Mn.
KSDO-FM San Diego, Ca.
WTTF-FM Tiffin, Oh.
WEIV Ithaca, N.Y.
WEZS Richmond, Va.
WIAM-FM Williamston, N.C.
WAAW Murray, Ky.
WKNE-FM Keene, N.H.
KRMH San Marcos, Tx.
WRUF-FM Gainesville, Fl.
WLJM Gadsen, Al.
KEYN-FM Wichita, Ks.
WFOR-FM Hattiesburg, Ms.
WSOC-FM Charlotte, N.C.
WWGO-FM Erie, Pa.

103.9

KGHO-FM Hoquiam, Wa.
KTAC-FM Tacoma, Wa.
WHBM Xenia, Oh.
WHRF-FM Riverhead, N.Y.
KTYM-FM Inglewood, Ca.
WFTG-FM London, Ky.
WIBF-FM Jenkintown, Pa.
WVFV Dundee, Il.
WFAS-FM White Plains, N.Y.
WELP-FM Easley, S.C.
KHAR-FM Anchorage, Ak.
KNWA Fayetteville, Ar.
KPOC-FM Pochantas, Ar.
KERR Salinas, Ca.
WTWC Urbana, Il.
WRBR South Bend, In.
KNEI-FM Waukon, Ia.
WTCO-FM Campbellsville, Ky.
WTCW-FM Whitesburg, Ky.
WLEN Adrian, Mi.
WOAP-FM Owosso, Mi.
WWIZ Mercer, Pa.
WXIS Erwin, Tn.[
WIBBY Westerville, Oh.
WGNR Oneonta, N.Y.
WHGM Bellwood, Pa.
WOSH-FM Oshkosh, Wi.
KRGD-FM Las Cruces, N.M.
WCEH-FM Hawkinsville, Ga.
WHNR McMinnville, Tn.
CFMC-FM Saskatoon, Sk.
CFFM-FM Merritt, B.C.

104.1

WVGR Grand Rapids, Mi.
KTRB-FM Modesto, Ca.
WLAC-FM LaGrange, Ga.
KRBE Houston, Tx.
WIKY-FM Evansville, In.
WLBC-FM Muncie, In.
WTJS-FM Jackson, Tn.
KMLB-FM Monroe, La.

WWCO-FM Waterbury, Ct.
WBCN Boston, Ma.
WMFM Madison, Wi.
WSMD-FM LaPlata, Md.
WTPA-FM Harrisburg, Pa.
WXKW Allentown, Pa.
WCJW Cleveland, Oh.
WWOL-FM Buffalo, N.Y.
WSJS-FM Winston-Salem, N.C.
KRSI-FM St. Louis Park, Mn.
KLFM Ames, Ia.
KOFM Oklahoma City, Ok.
WLAT-FM Conway, S.C.
WJBM-FM Jerseyville, Il.
WUPR-FM Utado, P.R.
WATM-FM Atmore, Al.
WKPE-FM Cocoa Beach, Fl.
WGLF Tallahassee, Fl.
KDNX Yakima, Wa.
KHOM Houma, La.

104.3

KBIG-FM Los Angeles, Ca.
KERI Bellingham, Wa.
WRUN-FM Utica, N.Y.
WJJD-FM Chicago, Il.
WRTS East Liverpool, Oh.
WITH-FM Baltimore, Md.
WJOF Athens, Al.
WOMC Detroit, Mi.
KBEY Kansas City, Mo.
WNCN New York, N.Y.
WCPS-FM Tarboro, N.C.
KEWB Redding, Ca.
KLMO-FM Longmount, Co.
WBBQ-FM Augusta, Ga.
KSOP-FM Salt Lake City, Ut.
CFDM-FM Drummondville, P.Q.
CKYC-FM Sault Ste. Marie, On.

104.5

WAAZ-FM Crestview, Fl.
KFOG San Francisco, Ca.
KIXL-FM Dallas, Tx.
WFMG Gallatin, Tn.
WWST-FM Wooster, Oh.
WRCP-FM Philadelphia, Pa.
WAJC Indianapolis, In.
WTID-FM Norfolk, Va.
WGPC-FM Albany, Ga.
WHIS-FM Bluefield, W.V.
WFMB Springfield, Il.
WHSY-FM Hattiesburg, Ms.
KCIV The Dalles, Or.
WTCV Memphis, Tn.
KOBS-FM Orange, Tx.
KEXL San Antonio, Tx.
WFMP Fitchburg, Ma.
KSRN Reno, Nv.
WEAT-FM West Palm Beach, Fl.
WEAU-FM Eau Claire, Wi.
KKMA Pryor, Ok.
CHUM-FM Toronto, On.
CJSS-FM Cornwall, On.

104.7

KDES-FM Palm Springs, Ca.
WJLN Birmingham, Al.
KBUZ-FM Mesa, Az.
WRMI-FM Morris, Il.
WTTN-FM Watertown, Wi.
KNOK-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.
KRES Moberly, Mo.
WCWA-FM Toledo, Oh.
WONE-FM Dayton, Oh.
KFAM-FM St. Cloud, Mn.
WYFM Charlotte, N.C.
WSPK Poughkeepsie, N.Y.
WYDD Pittsburgh, Pa.
WOSC-FM Fulton, N.Y.
KGEC Palm Springs, Ca.
WDOL-FM Athens, Ga.
WBOC-FM Ocean City-Salisbury, Md.
KUAC College, Ak.
KDUX-FM Ocean Shores, Wa.
CJOV-FMKelowna, B.C.

104.9

KDUS-FM Perry, Ia.
WFMR Fremont, Ca.
WFUL-FM Fulton, Ky.
WVCA-FM Gloucester, Ma.
KKWB-FM Breckenridge, Mn.
WHOD-FM Jackson, Al.
WOAB Ozark, Al.
KHIG Paragould, Ar.
KOCN Pacific Grove, Ca.
WIHS Middletown, Ct.
WJNJ-FM Atlantic Beach, Fl.
WWRH Columbus, Ga.
WFIW-FM Fairfield, Il.
WCBW Columbia, Il.
KVLG-FM LaGrange, Tx.
WWHC Hartford City, In.
KBOE-FM Oskaloosa, Ia.
KVOL-FM Emporia, Ks.
WKYW Frankfort, Ky.
KTOC-FM Jonesboro, La.
WKWL Belvidere, Il.
KSPR-FM Springdale, Ar.
WALM-FM Albion, Mi.
WFYC-FM Alma, Mi.
KRFO-FM Owatonna, Mn.
WTIB Iuka, Ms.
WCIS-FM Moss Point, Ms.
KAWL-FM York, Ne.
WRDR Egg Harbor City, N.J.
WIZR Johnstown, N.Y.
WKSM Tabor City, N.C.
WAAZ-FM Crestview, Fl.
KGOY Bethany, Ok.
WWDL-FM Scranton, Pa.
WVRY Waverly, Tn.
WYSH-FM Clinton, Tn.
KYLE-FM Temple, Tx.
KPUL-FM Pullman, Wa.
WVLE Kaukauna, Wi.
KAGH-FM Crossett, Ar.
WVVV Blacksburg, Va.
KFRD-FM Rosenberg, Tx.
WPKY-FM Princeton, Ky.
WGAT-FM Gate City, Va.
WRDB-FM Reedsburg, Wi.
WMTL-FM Leitchfield, Ky.
WLSR Lima, Oh.
WSHY Shelbyville, Il.

105.1

WQSB Albertville, Al.
KHIQ Sacramento, Ca.
KBCA Los Angeles, Ca.
KADX Denver, Co.
WAVA-FM Arlington, Va.
WYOR Coral Gables, Fl.
WQRS-FM Detroit, Mi.
WEAW-FM Evanston, Il.
WGEM-FM Quincy, Il.
WPJB-FM Providence, R.I.
WLYC-FM Williamsport, Pa.
WSOM-FM Salem, Oh.
WCXL Cincinnati, Oh.
WDNC-FM Durham, N.C.
WRFM New York, N.Y.
WOIV DeRuyter Village, N.Y.
WIOV Ephrata, Pa.
WPRP-FM Ponce, P.R.
KUSN-FM St. Joseph, Mo.
KVEE-FM Conway, Ar.
WWQS Orlando, Fl.
WCBY-FM Cheboygan, Mi.
WGGR Duluth, Mn.
WKOZ-FM Kosciusko, Ms.
KSLM-FM Salem, Or.
KWKC-FM Abilene, Tx.
WKLC-FM St. Albans, W.V.

105.3

KITT San Diego, Ca.
WVHI Evansville, In.
KBRG San Francisco, Ca.
KBIQ Edmonds, Wa.
KXXX Dallas, Tx.
WDAS-FM Philadelphia, Pa.
WAGY-FM Forest City, N.C.
WVSL-FM Slidell, La.
WHHO-FM Mansfield, Oh.
WFRB-FM Frostburg, Md.
WASK-FM Lafayette, In.
WXRI Norfolk, Va.
KONA-FM Kennewick, Wa.
WDBQ-FM Dubuque, Ia.
WDEN-FM Macon, Ga.
KWED-FM Sequin, Tx.
CFCA-FM Kitchener, On.
CKBY-FM Ottawa, On.

Ceretti

105.5

KEBR Sacramento, Ca.
KLYK Longview, Wa.
KNAC Long Beach, Ca.
KNIK-FM Anchorage, Ak.
WWGP-FM Sanford, N.C.
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.
WACT-FM Tuscaloosa, Al.
KNBY-FM Newport, Ar.
WANZ Sebring, Fl.
WRAR-FM Tappahannock, Va.
WCHK-FM Canton, Ga.
WLOP-FM Jesup, Ga.
WSTK Woodstock, Il.
WIFF Auburn, In.
WAKE-FM Valparaiso, In.
WSAC-FM Fort Knox, Ky.
WPRT-FM Prestonburg, Ky.
WQRB Pittsfield, Ma.
WMRP-FM Flint, Mi.
WNLA-FM Indianola, Ms.
KILJ Mount Pleasant, Ia.
WXQR-FM Jacksonville, N.C.
WATH-FM Athens, Oh.
WGLN Sylvania, Oh.
WCHO-FM Wash. Ct. House, Oh.
WFIZ Conneaut, Oh.
WSVB Tamaqua, Pa.
WDAR-FM Darlington, S.C.
WRIP-FM Rossville, Ga.
WYTM-FM Fayetteville, Tn.
WBNT-FM Oneida, Tn.
KSTU Centerville, Ut.
WJWS-FM South Hill, Va.
WCFW Chippewa Falls, Wi.
WWVR West Terre Haute, In.
KNDR Chickasha, Ok.
KLOQ Lyons, Ks.
WGUL-FM New Port, Fl.
KRBI-FM St. Peter, Mn.
WTPR-FMParis, Tn.
KVRO Stillwater, Ok.
WMST-FM Mt. Sterling, Ky.
WMRV Endicott, N.Y.
WSUB-FM Groton, Ct.
WGVL Gainesville, Fl.
WKDE-FM Altavista, Va.
WWMC Moncks Corner, S.C.
KKOY-FM Chanute, Ks.

105.7

KGRL Reno, Nv.
KBUB-FM Sparks, Nv.
KHER Longview, Tx.
KUOA-FM Siloam Springs, Ar.
WKVM-FM San Juan, P.R.
WTLC Indianapolis, In.
WAUG-FM Augusta, Ga.
WOOD-FM Grand Rapids, Mi.
KHCB-FM Houston, Tx.
WWTO Peoria, Il.
WNOW-FM York, Pa.
WKYC-FM Cleveland, Oh.
KFMX Statesville, N.C.
WKOK-FM Framington, Ma.
KXEL-FM Waterloo, Ia.
WBMD-FM Catonsville, Md.
KREP Santa Clara, Ca.
KSGM-FM Ste, Genevieve, Mo.
KEZE-FM Spokane, Wa.
WAPL-FM Appleton, Wi.
CBU-FM Vancouver, B.C.
CHSC-FM St. Catherines, On.
CFGL-FM Laval, P.Q.

105.9

WLAC-FM Nashville, Tn.
WPFB-FM Middletown, Oh.
KWST Los Angeles, Ca.
WHCN Hartford, Ct.
WXRA Woodbridge, Va.
WAMO-FM Pittsburgh, Pa.
WCHD Detroit, Mi.
WXFM Elmwood Park, Il.
WIXX-FM Ft. Lauderdale, Fl.
WHBI Newark, N.J.
WOOO-FM Deland, Fl.
KBPI Denver, Co.
KLWN-FM Lawrence, Ks.
KKWS Wadena, Mn.
WHBQ-FM Memphis, Tn.

106.1

WRFS-FM Alexander City, Al.
WPAC-FM Patchogue, N.Y.
WLET-FM Toccoa, Ga.
WKGO 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, Pa.
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.
WCOD-FM Hyannis, Ma.
KLSS Mason City, Ia.
CJOY-FM Guelph, On.

106.3

KNDX Yakima, Wa.
KYMS Santa Ana, Ca.
KOTE Lancaster, Ca.
WWON-FM Woonsocket, R.I.
WLNR-FM Lansing, Il.
WOTW-FM Nashua, N.H.
WNDY Crawfordsville, In.
WHTG-FM Eatontown, N.J.
KVWO-FM Cheyenne, Wy.
WVIP-FM Mt. Kisco, N.Y.
KOPR-FM Great Falls, Mt.
WSMU Starkville, Ms.
WRCK-FM Sheffield, Al.
WSPB-FM Sarasota, Fl.
KGOU Norman, Ok.
WQXE Elizabethtown, Ky.
WEVR-FM River Falls, Wi.
WANY-FM Albany, Ky.
KTIB-FM Thibodaux, La.
WCEM--FM Cambridge, Md.
WSBM Saginaw, Mi.
WMFG-FM Hibbing, Mn.
WBIL Biloxi, Ms.
KPLD Branson, Mo.
QLNO-FM London, Oh.
WBVB Union City, Pa.
WNIK-FM Arecibo, P.R.
WNVA-FM Norton, Va.
KTON-FM Belton, Tx.
KONI-FM Spanish Fork, Ut.
WKJC Bluefield, Va.
WFDT Columbia City, In.
WMAD-FM Middleton, Wi.
KLTB Bolivar, Mo.
WMNA-FM Gretna, Va.
KLEX-FM Lexington, Mo.
WKLA-FM Ludington, Mi.

106.5

KYLN-FM Lynden, Wa.
KJML Sacramento, Ca.
WLOM Chattanooga, Tn.
WMAR-FM Baltimore, Md.
KPRI San Diego, Ca.
WHLM-FM Bloomsburg, Pa.
WFML Washington, In.
WXEN Cleveland, Oh.
WRDX Salisbury, N.C.
WADV Buffalo, N.Y.
KPLX San Jose, Ca.
WDRK Greenville, Oh.
WRFK-FM Richmond, Va.
WDLB-FM Marshfield, Wi.
WNIK-FM Arecibo, P.R.
WSEO-FM Kalamazoo, Mi.
KWNT-FM Davenport, Ia.
WGNU-FM Granite City, Il.
WDKC Albany, N.Y. York
KGBC-FM Galveston, Tx.
KOOL Jacksonville, Tx.
CFFM-FM Clinton, B.C.

106.7

KPPC-FM Pasadena, Ca.
WEZR Manassas, Va.
WFTL-FM Ft. Lauderdale, Fl.
WWWW Detroit, Mi.

KLZ-FM Denver, Co.
WSRW-FM Hillsboro, Oh.
WBZ-FM Boston, Ma.
WMSH-FM Elizabethtown, Pa.
WRVR New York, N.Y.
WEVP-FM Beaver Falls, Pa.
WDUN-FM Gainesville, Ga.
KKNU Tulare, Ca.
WDIX-FM Orangeburg, S.C.
WJAG-FM Norfolk, Ne.
WKYV-FM Vicksburg, Ms.
WLBE-FM Leesburg, Fl.
CJAT-FM Trail, B.C.

106.9

WBRC-FM Birmingham, Al.
WJTA McKenzie, Tn.
KMPX San Francisco, Ca.
WNYN-FM Canton, Oh.
WCCC-FM Hartford, Ct.
WXFR-FM Guayama, P.R.
WMRI Marion, In.
WKDN-FM Camden, N.J.
WMRN Marion, Oh.
WMIT Black Mountain, N.C.
WARK-FM Hagerstown, Md.
WMUS-FM Muskegon, Mi.
KJFF Jefferson City, Mo.
WRLX Auburn, N.Y.
KWOE-FM Clinton, Ok.
WIVC Peoria, Il.
WKRK Louisville, Ky.
KROC-FM Rochester, Mn.
KNRO-FM Conroe, Tx.

107.1

KBRO-FM Bremerton, Wa.
KMAX Arcadia, Ca.
WRLB Long Branch, N.J.
WRNW Mt. Kisco, N.Y.
WPGU Urbana, Il.
KSEO-FM Durant, Ok.
WLCM-FM Lancaster, S.C.
WSRC-FM Durham, N.C.
KASI-FM Ames, Ia.
KADO Texarkana, Ar.
KPLN Del Ray Oaks, Ca.
WRTG Thomasville, Ga.
WMGE Danville, Ky.
KDSN-FM Denison, Ia.
WCTT-FM Corbin, Ky.
KCIL Houma, La.
WPAG-FM Ann Arbor, Mi.
WHLS-FM Port Huron, Mi.
WWWS Saginaw, Mi.
WSJM-FM St. Joseph, Mi.
WFON Fond du Lac, Wi.
WHLB-FM Virginia, Mn.
WROA-FM Gulfport, Ms.
WGHM-FM Skowhegan, Me.
WLSM-FM Louisville, Ms.
KESM-FM El Dorado Springs, Mo.
WBNL-FM Boonville, In.
WRRZ-FM Clinton, N.C.
WOKU-FM Greensburg, Pa.
WEJL-FM Scranton, Pa.
WDMP-FM Dodgeville, Wi.
WPUV-FM Pulaski, Va.
WOCO-FM Oconto, Wi.
WXQL Glens Falls, N.Y.
KDUZ-FM Hutchinson, Mn.
WIXK-FM New Richmond, Wi.
WNRE Circleville, Oh.
KEHG-FM Fosston, Mn.
WLYX-FM Milford, Oh.
KWBU-FM Waco, Tx.

107.3

WAAF Worcester, Ma.
KSTN-FM Stockton, Ca.
WRSW-FM Warsaw, In.
WMAL-FM Washington, D.C.
WFAW Fort Atkinson, Wi.
KINB Poteau, Ok.
WBEA Elyria, Oh.
KARD Wichita, Ks.
WZOW Utica, N.Y.
WQLT Florence, Al.
WPLB-FM Greenville, Mi.

WTRE-FM Greensburg, In.
WCOR-FM Lebanon, Tn.
WCMN-FM Arecibo, P.R.
WWBA-FM St. Petersburg, Fl.
WGBA-FM Columbus, Ga.
KBUR-FM Burlington, Ia.
KLIN-FM Lincoln, Ne.
WANS-FM Anderson, S.C.
KLJT Lake Jackson, Tx.
KMWX-FM Yakima, Wa.

107.5

KCRI Helena, Mt.
WBYO Boyertown, Pa.
KBBI Los Angeles, Ca.
WAAA-FM Winston-Salem, N.C.
WNUS-FM Chicago, Il.
WGPR Detroit, Mi.
KNOK-FM Fort Worth, Tx.
WLIB-FM New York, N.Y.
WCCN-FM Neillsville, Wi.
WBOW-FM Terre Haute, In.
WTRF-FM Wheeling, W.V.
WIGL Miami, Fl.
WSJC-FM Magee, Ms.
KJAE Lakewood, Co.

107.7

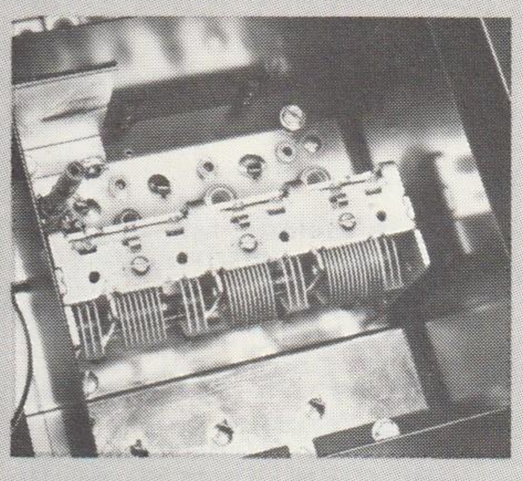
WGET-FM Gettysburg, Pa.
KVEZ San Mateo, Ca.
WSNJ-FM Bridgeton, N.J.
WDAO Dayton, Oh.
WBON Milwaukee, Wi.
WOLA-FM Carolina, P.R.
WBIV Wethersfield twp., N.Y.
KRAB Seattle, Wa.
WEER-FM Warrenton, Va.
KGRV St. Louis, Mo.
WNCT-FM Greenville, N.C.
WENN-FM Birmingham, Al.
WORJ-FM Mt. Dora, Fl.
KICD-FM Spencer, Ia.
KEWI-FM Topeka, Ks.
WHSB-FM Alpena, Mi.
WIVK-FM Knoxville, Tn.
KJET-FM Beaumont, Tx.

107.9

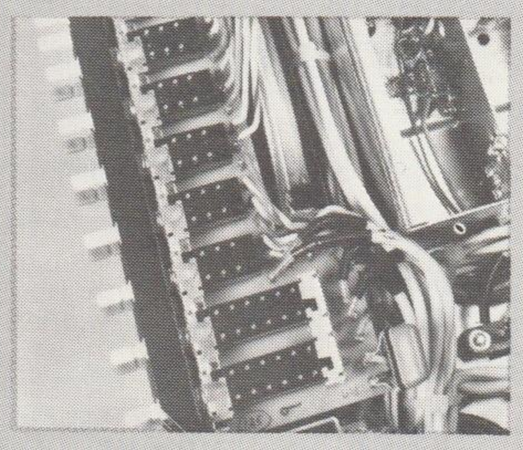
KEZE-FM Spokane, Wa.
WDJF Westport, Ct.
WIFE-FM Indianapolis, In.
WEEP-FM Pittsburgh, Pa.
KXOA-FM Sacramento, Ca.
KAPX San Clemente, Ca.
WNOB Cleveland, Oh.
WXTC Annapolis, Md.
WHIL Medford, Ma.
WGMZ-FM Flint, Mi.
KFMV Magnolia, Ar.
WAUR Aurora, Il.
KKWL-FM Waterloo, Ia.
WBT-FM Charlotte, N.C.
WOBT-FM Rhinelander, Wi.
KTWN Anoka, Mn.
WMAI-FM Panama City, Fl.
WPBF West Palm Beach, Fl.
WRPM-FM Poplarville, Ms.
WONO-FM Syracuse, N.Y.
KWIL-FM Albany, Or.
WABD-FM Fort Campbell, Ky.
KCFA-FM Spokane, Wa.
KUZZ-FM Bakersfield, Ca.

Ceretti

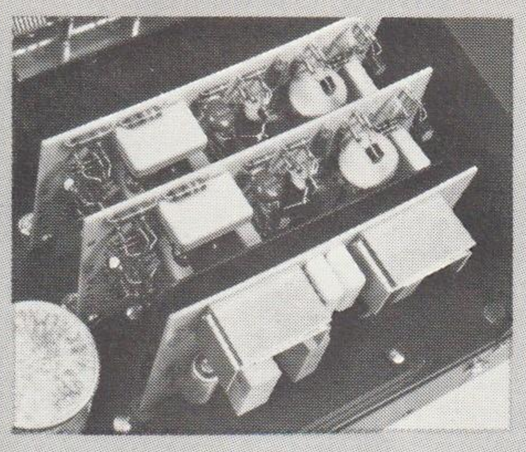
THE BEST STEREO



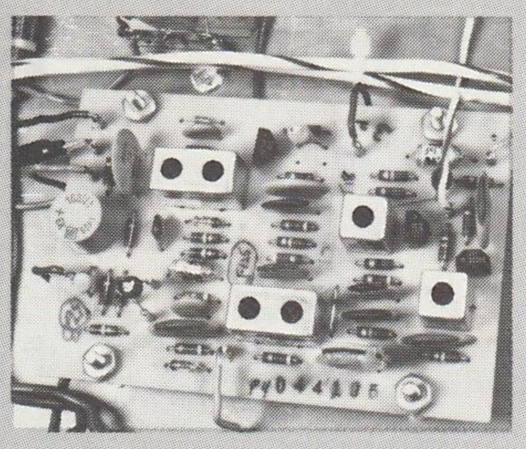
Tune weak, distant stations next to strong local stations easier. A seven section variable capacitor is the heart of the RF section. Four sections are used for FM and three for AM. By interleaving (FM-AM-FM-AM, etc.) spurious responses are significantly reduced and selectivity is substantially improved.



Excellent flexibility makes the MAC 1900 easier to set up. Pushbuttons are provided for your choice of any mode of operation. Use two tape recorders, 3 stereo speaker systems, seven modes of operation plus loudness compensation, muting, high and low filters and loudness compensation.



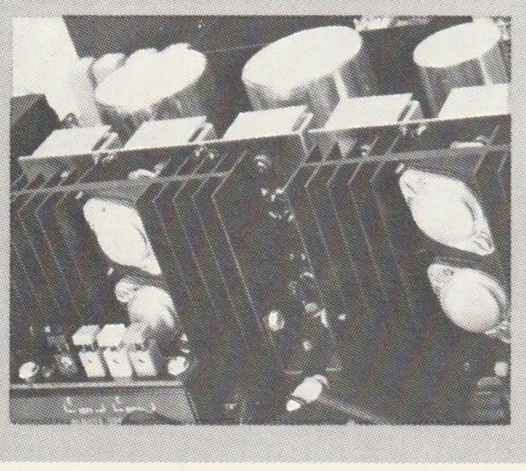
Each channel of the preamplifier is assembled on a plug-in high grade, low noise printed circuit card. A large quantity of negative feedback around the phono amplifier reduces noise and distortion and provides precision RIAA compensation for records.



A new McIntosh engineering development has produced an AM circuit that has equal sensitivity across the entire band. Selectivity and image rejection have been maximized across the band. A patent application has been made for this new and superior AM tuner circuit.



Use and hear AM as never before. The MAC 1900 has a high quality loopstick AM antenna. It can be rotated for maximum performance, optimum signal reception and minimum interference. Each MAC 1900 loopstick is tuned for optimum performance. Custom matching maximized performance. You can mount the receiver in any position without the sacrifice of sensitivity.



There's more real power and more protection. The power transistors are mounted on oversized black anodized heat sinks. Under normal operation the transistors will operate at low temperature. The power transistors used in the output circuits are selected for their high power dissipation capability, wide frequency response and large "safe operating area."

FM

A dual insulated gate metal oxide silicon field effect transistor (MOS-FET) is used as the first and second RF amplifier. The MOS-FET greatly reduces the cross-modulation products over a wider dynamic range. Wider dynamic range permits acceptance of up to 12 RF volts without overload or increased distortion!

The dual Quad-Tuned IF filter has unusual adjacent channel selectivity and low distortion. The Quad-Tuned IF filter has equal time delay in its pass band region. All other IF filters have delay distortion, as much as 100% of the 10.7 MHz transit delay. The MAC 1900 has less than 1.0% delay distortion from antenna input to discriminator output! You get overall lower distortion performance.

A particular advantage of the McIntosh multiplex circuit is the elimination of the critical adjustment in commonly used circuits. The L—R sidebands are detected then automatically matrixed with the L+R carrier. This yields the left and right program with maximum separation!

Ultrasonic muting makes FM tuning easier. FM muting operates by detecting ultrasonic noise which is present between stations or when receiving a weak station.

AM

The NEW, superb AM circuit design has linear sensitivity and linear frequency response over the entire AM Band. The NEW AM circuit has high sensitivity and excellent dynamic range. The NEW AM circuit will not be overloaded by strong local stations yet is sensitive enough to receive distant and weak stations with minimum noise. Response has been carefully tailored to deliver maximum quality with minimum noise.

The high sensitivity ferrite loopstick antenna is carefully tuned and trimed to match each MAC 1900. After the individual matching process, the antenna is sealed to preserve the superior performance introduced by individualized matching. McIntosh has revived the lost art of designing superb AM.

PREAMPLIFIER

The preamplifier is an outstanding example of what the electronic designers have done to provide for highest quality with great flexibility in a space limited housing. It has unusually low noise and low distortion. For instance, you can play, record, and monitor on two tape recorders.

POWER AMPLIFIER

The low distortion and stability of the MAC 1900 power amplifier circuit allows it to be used with any dynamic or electrostatic speaker system. McIntosh output circuit with instantaneous current limiting protection totally protects you. This reserve power and complete protection allows safe operation with as many as three pairs of speakers, individually or all together! You have front panel switching for three stereo loudspeaker systems of any type!

Ceretti

RECEIVER IS THE MAC 1900

AUDIO DIVISION

you get more value

you get more protection from service costs

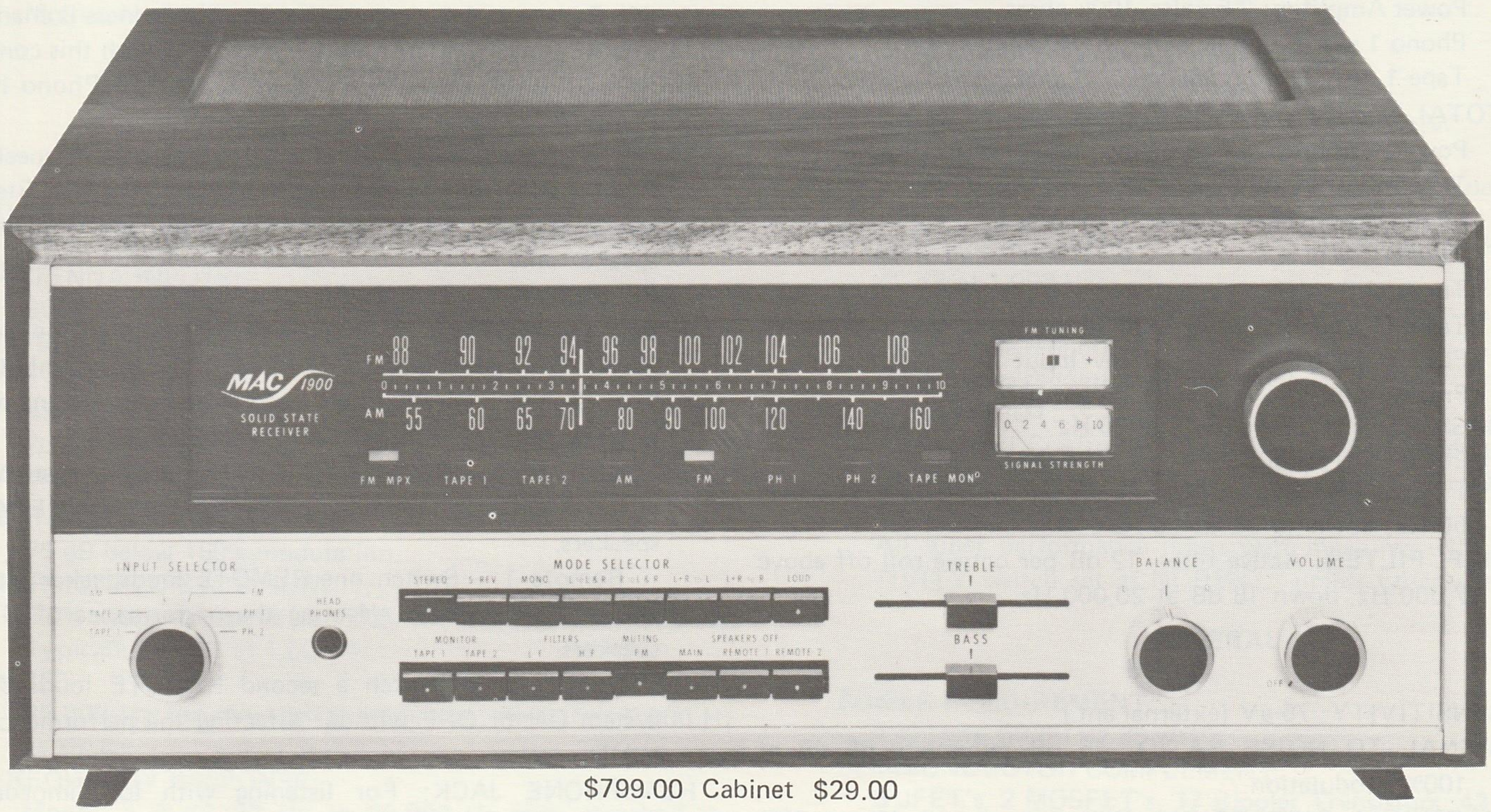
you get more electronic protection

you get more real power

you get more useful flexibility

you get more results from new technology

you get more pure pleasure



$799.00 Cabinet $29.00

TWO YEAR FACTORY SERVICE CONTRACT

To make the value even greater, buy a McIntosh Audio product and get a free 2 YEAR FACTORY SERVICE CONTRACT! One of the outstanding features of a McIntosh Factory Service Contract is the coverage of wear and tear as well as any manufacturing defect.


McIntosh
YEAR FACTORY SERVICE CONTRACT
CONTRACT NO.
Date of Purchase
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 AUDIO ISSUES THIS TWO YEAR CONTRACT TO:
Name
Street
City State Zip
MODEL NO. SERIAL NO.
The terms of this contract are:
McIntosh AUDIO DIVISION 2 Chambers Street, Binghamton, New York 13903 Tel. 607-723-3512

Read about the Guaranteed Performance of the

MAC 1900

Ceretti

MAC 1900 Performance Limits

PREAMPLIFIER AND POWER AMPLIFIER

POWER OUTPUT: 55 Watts continuous, per channel, both channels operating at rated power or less; which is:
14.832 volts RMS across 4 ohms
20.976 volts RMS across 8 ohms
or 30 watts continuous, per channel, both channels operating at rated power or less; which is:
21.909 volts RMS across 16 ohms

HARMONIC DISTORTION: Will not exceed 0.20% at rated power output from 20 Hz to 20,000 Hz with both channels operating. Typical performance is less than 0.1% at rated power. Distortion decreases as output power is reduced.

INTERMODULATION DISTORTION: Will not exceed 0.20% if instantaneous peak power output is twice rated power or less per channel with both channels operating for any combination of frequencies 20 Hz to 20,000 Hz

DAMPING FACTOR: 50 with 8 ohm load

FREQUENCY RESPONSE: 0.5 dB 20 Hz to 20,000 Hz.

INPUT SENSITIVITY AND IMPEDANCE:
Power Amplifier: 2.5 volts, 100k ohms
Phono 1 and Phono 2: 2.0 mv, 47,000 ohms
Tape 1 and Tape 2: 250 mv, 250,000 ohms

TOTAL NOISE:
Power Amplifier: 95 dB below rated output
Tape Input: 90 dB below rated output
Phono Input: 76 dB below 10 mv input

TAPE OUTPUT:
Tuner: 1.0 volt
Tape: 250 mv with rated input from low level inputs
Phono: 1.2 volts with 10 mv input at 1,000 Hz
Preamp Output: 2.5 volts with rated input

BASS CONTROLS: ±16 dB at 20 Hz

TREBLE CONTROLS: ±16 dB at 20,000 Hz

L. F. FILTER: Active filter, 12 dB per octave roll off below 50 Hz, down 19 dB at 20 Hz

H. F. FILTER: Active filter, 12 dB per octave roll off above 7,000 Hz, down 18 dB at 20,000 Hz

AM

SENSITIVITY: 75 μV (external ant.)

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

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

ADJACENT CHANNEL SELECTIVITY: 30 dB minimum

IMAGE REJECTION: 65 dB minimum, 540 kHz – 1600 kHz

FM

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

SIGNAL TO NOISE RATIO: 70 dB below 100% modulation

HARMONIC DISTORTION: Mono: Does not exceed 0.3% at 100% modulation ± 75 kHz deviation; Stereo: Will not exceed 0.7%

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

SELECTIVITY: 55 dB alternate channel selectivity minimum

SPURIOUS REJECTION: 90 dB minimum

IMAGE REJECTION: 80 dB minimum

STEREO SEPARATION: 34 dB at 1,000 Hz

SCA FILTER: 50 dB rejection from 67 kHz to 74 kHz. 275 dB per octave slope

POWER REQUIREMENTS: 120 volts, 50/60 Hz, 40 watts at zero signal output, 300 watts at rated output

FACILITIES AND FEATURES

BASS: Slide control with mechanical detent for flat –16 dB to +16 dB at 20 Hz

TREBLE: Slide control with mechanical detent for flat –16 dB to +16 dB at 20,000 Hz

LOUDNESS: Pushbutton . . . for loudness compensation or flat response

BALANCE: Natural balance at center position, attenuation of left or right channel by rotating control

VOLUME: Precision "tracked" at all listening levels. (0 to –65 dB) Does not change stereo balance as loudness is changed. The AC power ON/OFF switch is coupled with this control.

INPUT: Six positions – Tape 1, Tape 2, AM, FM, Phono 1 and Phono 2

MODE: Pushbutton – Left channel only to both speakers. Right channel only to both speakers, Stereo Reverse, Stereo, Mono: (L+R), L+R to right speaker only, and L+R to left speaker only

TAPE MONITOR: Two pushbutton switches. Either of two tape recorders can be monitored by selecting the TAPE MONITOR 1 pushbutton or TAPE MONITOR 2 pushbutton. They are mechanically interlocked to accept only one pushbutton at the IN position at one time

SPEAKER: Main – Switch the MAIN loudspeaker system ON or OFF without affecting the performance of REMOTE speakers.

Remote 1 – Switch one REMOTE loudspeaker system ON or OFF without affecting the performance of MAIN speakers.

Remote 2 – Switch a second REMOTE loudspeaker system ON or OFF without affecting the performance of MAIN speakers.

HEADPHONE JACK: For listening with low impedance dynamic stereo headphones

TRANSISTOR COMPLEMENT: 53 silicon field effect or bipolar transistors, 39 diodes, 3 integrated circuits, 4 thyristors

MECHANICAL

SIZE: Front panel measures 16 inches wide (40.65 cm) by 5-1/2 inches high (13.95 cm). Chassis measures 15 inches wide (38.1 cm) by 5-1/8 inches high (13.05 cm) by 15 inches deep (38.1 cm) including back panel connectors. Knob clearance required is 1-1/2 inches (3.85 cm) in front of the mounting panel.

FINISH:
Front panel is anodized gold with black

WEIGHT:
33 pounds (14.97 kg) net, 46 pounds (20.86 kg) in shipping carton.

Ceretti

FM STEREO RECEIVER MAC 1700



$599.00 Cabinet $29.00

McIntosh famous flexibility has the desirable control facilities you want. The preamplifier uses silicon planar transistors for high thermal stability, low noise and superior high frequency response. Low distortion and noise free reception from distant stations are the expected from a McIntosh. The multiplex decoder and SCA filters guarantee the absolute best in FM stereo. Solid state power amplifiers are "fail-safe", stereo. The solid state 40 watt power amplifiers are "fail-safe" regardless of the speaker load. A McIntosh developed "power monitor" circuit (patented) prevents failure of the output transistors in the event of accidental open circuit, short circuit, or incorrect load impedance. The sophisticated beauty and the conservative appearance assures you that the styling is not dated.

Performance Limits

FM

USABLE SENSITIVITY: 2.5 μV at 100% modulation ($\pm$75 kHz deviation) for 3% total noise and harmonic distortion.

SIGNAL TO NOISE RATIO: 65 dB below 100% modulation

HARMONIC DISTORTION: Mono: 0.5%; Stereo: 0.8%

FREQUENCY RESPONSE: $\pm$ 1dB 20 Hz to 20,000 Hz with standard 75 μs de-emphasis and 19,000 Hz pilot frequency filter.

CAPTURE RATIO: 2.0 dB

IMAGE REJECTION: 60 dB

STEREO SEPARATION: 30 dB at 1,000 Hz

AMPLIFIER

POWER OUTPUT:

40 Watts continuous, per channel, both channels operating at rated power or less; which is:

12.649 volts RMS across 4 ohms

17.888 volts RMS across 8 ohms or

30 Watts continuous, per channel, both channels operating at rated power or less; which is:

21.909 volts RMS across 16 ohms

HARMONIC DISTORTION: Will not exceed 0.25% at any power level up to rated power output per channel from 30 Hz to 20,000 Hz, both channels operating. Typical performance is less than 0.1% at rated power. Distortion decreases as output power is reduced.

INTERMODULATION DISTORTION: Will not exceed 0.25% if instantaneous peak power output is twice rated power output or less per channel with both channels operating for any combination of frequencies 30 Hz to 20,000 Hz.

FREQUENCY RANGE:

20 Hz to 20,000 Hz $\pm$0.5 dB at rated output

10 Hz to 80,000 Hz +0 -3 dB at rated output.

DAMPING: 100 at 8 ohms

INPUT SENSITIVITY AND IMPEDANCE: Auxiliary, Tape, Tuner and Tape Monitor: 300 mv 250,000 ohms; Phono: 2.4 mv 47,000 ohms; Tape Head: 2.4 mv 500,000 ohms.

TOTAL NOISE (including Power Amplifier):

High level inputs: 75 dB below rated output

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

POWER AMPLIFIER NOISE: 90 dB below rated output

TAPE OUTPUT: From tuner: 1.5 volts; low level inputs: 300 mv at rated sensitivity.

FACILITIES AND FEATURES

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

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

FILTER: Flat, or 5,000 Hz cutoff and 60 Hz cutoff, 12 dB per octave

HEADPHONE JACK: For low impedance dynamic stereo headphones

SEMICONDUCTOR COMPLEMENT:

Preamplifier: 16 Silicon Transistors

Power Amplifier: 18 Silicon Transistors, 12 Diodes

Tuner: 8 Tubes, 4 Transistors, 10 Diodes Power Supply, 8 Rectifiers, 1 Zener Diode, 1 Transistor

POWER REQUIREMENTS: 120 volts, 50/60 Hz, 70 watts at zero signal output, 270 watts at rated power output.

MECHANICAL

SIZE: Front panel: 16 inches wide (40.65 cm) by 5-1/2 inches high (13.95 cm); Chassis: 15 inches wide (38.1 cm) by 5-1/8 inches high (13.05 cm) by 14-1/2 inches deep (36.85 cm), including connectors. Clearance in front of mounting panel including knobs, 1-1/2 inches (3.85 cm)

WEIGHT: 34 pounds (15.42 kg) net, 44 pounds (19.96 kg) in shipping carton

Ceretti

From the LOUDSPEAKER SCIENTISTS at
McIntosh

THE SOUND OF REALITY

LOUDSPEAKER DIVISION

WHAT IS THE MEASURE OF A LOUDSPEAKER?

A loudspeaker is a "sound imaging" device much the same as a photograph is a "visual imaging" device. You measure the excellence of a photograph by judging the coincidence of the visual image with reality. You measure the excellence of a loudspeaker by judging the coincidence of the sound image with reality. After considering both the reality and the sound image you make the ultimate judgment based on what you hear. The most important thing a loudspeaker can do for you is to sound right the *first time* you listen to it, the *next time* you listen to it and *every time* you listen to it.

MAKING A REAL SOUND IMAGE

When you look in a perfectly flat mirror you will see an accurate image of yourself. If the mirror is bent then the accuracy of the image is altered. Mirrors can have other accuracy problems. They can be tinted so that the color coincidence of the object and the image is altered. In addition, the image may correspond in shape and size for one color but be out of shape or size for another color. Optical and sound imaging devices have analogous problems. Considering these facts it is possible to state the concept of image fidelity: *the image should coincide with the object in every detail. It should be no more nor no less.*

Applying the image fidelity concept to a sound system requires a statement like this: We should hear the original sound - nothing subtracted - nothing added!

To the eternal credit of sound scientists and engineers most of the links in the sound imaging chain have reached a high level of perfection. The loudspeaker has been the last link in need of an advancement to fidelity.

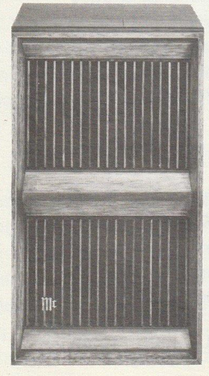
THE McINTOSH PROMISE OF PERFORMANCE

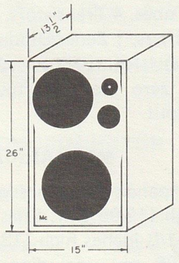
A McIntosh Loudspeaker is a promise of a new psychoacoustic experience - - - the experience of reality in your listening room - - - the experience of listening to an almost perfect sound image. From many man years of research, McIntosh promises you nearly perfect sound images will occur in your listening room - - - whatever the room is like! (See page 28 for the McIntosh Environmental Equalizers.) They give you the flexibility to properly match McIntosh loudspeakers to *your* room. For the first time loudspeakers and electronics have been designed *together* to give you near perfection in reproduction in your listening room. To say it differently - - - if the actual live or real sound would please you in your listening room then the McIntosh loudspeaker in your listening room will equally please you.

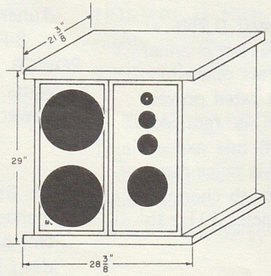
THE McINTOSH PROMISE OF RELIABILITY

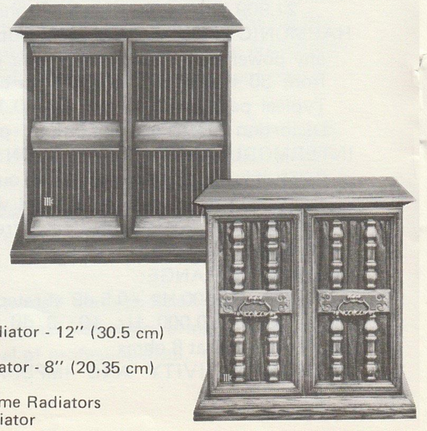
You have just read the McIntosh Promise of Performance. Now - - - read the McIntosh Promise of Reliability: each mechanism and each crossover component is protected by the *McIntosh 5 Year Factory Service Contract - - - free.*











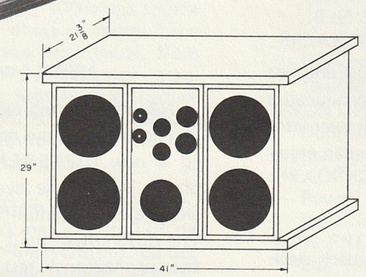
ML 1 C – $312.00
1 - 10" (25.4 cm) Radiator - 12" (30.5 cm) Loudspeaker
1 - 5" (12.7 cm) Radiator - 8" (20.35 cm) Loudspeaker
1 - 1½" (3.85 cm) Dome Radiator
1 - Coaxial Super Radiator

ML 2 C – $624.00
2 - 10" (25.4 cm) Radiator - 12" (30.5 cm) Loudspeakers
1 - 5" (12.7 cm) Radiator - 8" (20.35 cm) Loudspeaker
2 - 1½" (3.85 cm) Dome Radiators
1 - Coaxial Super Radiator

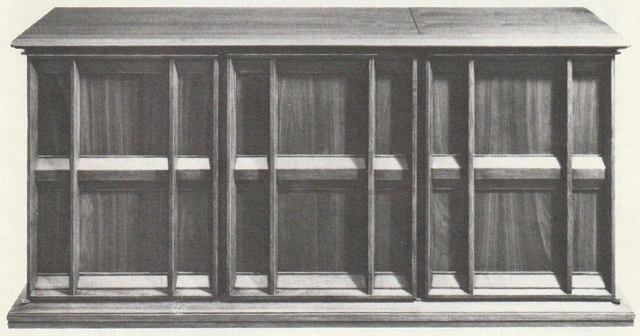


HERE'S THE REALITY OF THE CONCERT HALL IN YOUR LISTENING ROOM

ML 4 C – $1,012.00
4 - 10" (25.4 cm) Radiator - 12" (30.5 cm) Loudspeakers
1 - 5" (12.7 cm) Radiator - 8" (20.35 cm) Loudspeaker
4 - 1½" (3.85 cm) Dome Radiators
2 - Coaxial Super Radiators

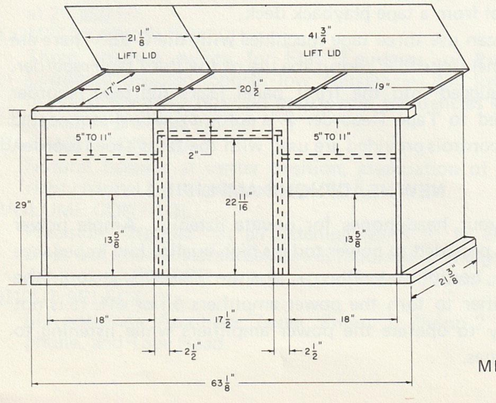


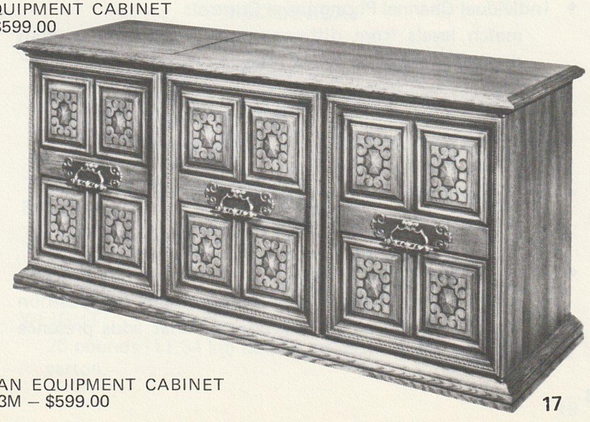




HERE'S BEAUTIFUL FURNITURE TO MAKE THE WHOLE FAMILY PROUD OF YOUR STEREO

CONTEMPORARY EQUIPMENT CABINET
L3C – $599.00





MEDITERRANEAN EQUIPMENT CABINET
L3M – $599.00

THE McINTOSH C28 STEREO PREAMPLIFIER IS THE QUIETEST--MOST FLEXIBLE--EASIEST TO USE--MOST ADVANCED AND HAS THE LOWEST DISTORTION!



$499.00 Cabinet $29.00

McIntosh engineers could not be content with just another preamplifier. New concepts, new technology has produced a preamplifier that gives you the greatest flexibility ever in a preamplifier. Look at the great number of ways you can enjoy the C 28 . . . . .

- Use 3 tape machines
  2 with their own electronics and 1 tape playback deck with complete easy front panel switching
- Built-in Headphone Amplifier
  listen to your favorite music - - - privately
- Main and Remote Loudspeaker Switching
  turn the main speakers on or off without affecting the remote speakers and vice versa (operates with accessory relay).
- New Low Noise Phono Input
  listen to your records with a new quietness
- Individual Channel Phono Level Controls
  match levels from different phono cartridges without degrading signal to noise ratio
- Individual Channel Output Level Controls
  perfect balance from your stereo always
- Individual Channel Tone Control Switches
  complete, repeatable flexibility
- NEW Compensation Control
  one position for loudness compensation, one position is flat and (NEW) a third position that adds presence compensation!

NEW LOW NOISE PHONO CIRCUITS

New records and tapes with greatly increased dynamic range demanded new low noise circuits. McIntosh scientists developed a new DIFFERENTIAL INPUT CIRCUIT that reduced phono input noise levels from approximately 2.4 microvolts in an excellent preamplifier to a new level of only 1.2 microvolts! The differential input circuit has only been used in very sensitive professional test equipment and in medico-electronics. The preamplifier will not overload or change distortion for any phono input signal from 2 millivolts up to 500 millivolts. This represents a dynamic range of approximately 3000 to 1 on a voltage basis. This fantastic improvement necessitated extreme care in layout and manufacturing. The signal circuits need careful shielding and wiring with coaxial cable to prevent noise and crosstalk in the preamplifier from destroying the low noise of the input circuit.

NEW TAPE FLEXIBILITY

With the C 28 you can copy from one tape recorder to another while listening to a completely different program! In addition, you can monitor the recording by simply pushing a button and an input circuit has been provided to accept the signal from a tape playback deck.

You can use three tape machines with the C 28. There are front panel jacks that permit the use of the third tape recorder. When plugged into the front panel jacks the tape recorder connected to Tape Recorder 2 is automatically disconnected and the controls provided are used with the third tape recorder.

NEW HEADPHONE AMPLIFIER

Use your headphones for private listening. Ample power has been provided to power todays high quality low impedance dynamic headphones. Plus a separate power switch in the preamplifier to turn the power amplifiers on or off. It is not necessary to operate the power amplifiers while listening to headphones.

Performance Limits

FREQUENCY RESPONSE:
+0—0.5 dB 20 Hz to 20,000 Hz

DISTORTION:
Will not exceed 0.1% at rated output level, 20 Hz to 20,000 Hz.

INPUT SENSITIVITY AND IMPEDANCE:
Auxiliary, Tuner, Tape 1, Tape 2, 0.25 volts; 250,000 ohms.
Phono 1 and Phono 2, 2 millivolts; 47,000 ohms (1,000 Hz).
Microphone, 2.5 millivolts; 500,000 ohms.
Tape Head, 2 millivolts; 500,000 ohms (500 Hz).

HUM AND NOISE:
Auxiliary, Tuner, Tape 1, Tape 2: 90 dB below rated output. Phono 1, Phono 2 and Tape Head: 78 dB below 10 millivolts input, equivalent to less than 1.2 microvolts at the input terminals. Microphone: equivalent to less than 1.5 microvolts at the input terminals.

OUTPUT LEVEL AND IMPEDANCE:
Main Output: 2.5 volts with rated input, 100 ohms source impedance, to operate into 47,000 ohms or more. Tape Output: 0.25 volts, 150 ohms source impedance, from low level inputs, to operate into 47,000 ohms or more. Headphone/Line Output: 0.75 volts into 8 ohm load or 2.5 volts into 600 ohm line, 0.2 ohm source impedance, Center Channel Output: 1.25 volts with rated input to both channels, to operate into 47,000 ohms or greater.

AMPLIFICATION IN DECIBELS:
Auxiliary, Tuner, Tape 1 and 2 to Main Output: 20 dB; to Tape Output: 0 dB; to Headphone/Line Output: 17.5 dB. Phono 1 and Phono 2 at 1,000 Hz to Main Output: 62 dB; to Tape Output: 42 dB; to Headphone/Line Output: 59.5 dB. Microphone: to Main Output: 60 dB; to Tape Output: 40 dB; to Headphone/Line Output: 57.5 dB. Tape Head at 500 Hz: to Main Output: 64 dB; to Tape Output: 44 dB: to Headphone/Line Output: 61.5 dB.

POWER REQUIREMENT:
117 volts, 50/60 Hz, 45 watts.

FACILITIES AND FEATURES

BASS CONTROLS:
11 position rotary switch in each channel, ± 20 dB at 20 Hz.

TREBLE CONTROLS:
11 position rotary switch in each channel, ± 18 dB at 20,000 Hz.

COMPENSATION SWITCH:
Three position switch for Flat, Loudness, or Presence. Loudness position boosts low frequencies for low level listening. Presence position boosts mid frequencies 4 dB to increase "presence" effect.

BALANCE CONTROL:
Natural balance at center position, attenuation of left or right channel by rotation control.

VOLUME CONTROL:
Precision "tracked" at all listening levels (0 to -65 dB). Does not change stereo balance as loudness is changed. The AC power ON/OFF switch is coupled with this control.

INPUT SELECTOR:
Six positions: Auxiliary, Tuner, Phono 1, Phono 2, Microphone, and Tape Head.

MODE SELECTOR:
Seven positions: Left channel only to both speakers, Right channel only to both speakers. Stereo Reverse, Stereo, Mono, L + R to left speaker only, and L + R to right speaker only.

TAPE MONITOR SWITCHES:
Either of two tape recorders can be monitored by use of either the TAPE 1 or TAPE 2 push button.

TAPE COPY SWITCH:
Provides switching to copy from tape machine 1 to tape machine 2 or vice versa without affecting the program being heard.

LF FILTER SWITCH (Rumble Filter):
Flat or roll-off at 12 dB per octave below 50 Hz, down 18 dB at 20 Hz.

HF FILTER SWITCH (Scratch Filter):
Flat or roll-off at 12 dB per octave above 7,000 Hz, down 18 dB at 20,000 Hz.

SPEAKER SWITCHES (Operates with accessory relay):
Turn the main speakers on or off without affecting the remote speakers and vice versa.

FRONT PANEL TAPE JACKS:
Connects the input or output of another tape recorder from the front panel.

HEADPHONE JACK:
Power to this jack is supplied by an amplifier provided in the C 28.

LOW FREQUENCY TRIM CONTROLS:
Use to compensate for unequal speaker response or the unequal influence of room acoustics.

PHONO 1 AND PHONO 2 LEVEL CONTROLS:
Provides for optimum signal to noise ratio and proper balance of the channels of the phono cartridge.

OUTPUT LEVEL CONTROLS:
Permits presetting the balance of the entire system.

HEADPHONE LEVEL CONTROLS:
Adjusts the output of the headphone/line amplifier output.

POWER AMPLIFIER ON-OFF SWITCH:
Allows the power amplifiers to be turned off when listening to headphones, etc.

TRANSISTOR COMPLEMENT:
26 silicon-planar transistors, 4 silicon diodes, 2 silicon bridge rectifiers.

MECHANICAL

SIZE:
Front panel measures 16 inches wide (40.65 cm) by 5-7/16 inches high (13.8 cm). Chassis measures 15 inches wide (38.1 cm) by 5 inches high (12.7 cm) by 13 inches deep (33.1 cm) including PANLOC mounting brackets and back panel connectors. Knob clearance required is 1-1/2 inches (3.85 cm) in front of the mounting panel.

FINISH:
Front panel is anodized gold and black with special gold/teal nomenclature illumination. Chassis is black.

MOUNTING:
Exclusive McIntosh developed professional PANLOC.

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

Ceretti



$349.00 Cabinet $29.00

Performance – flexibility – long trouble free life – describe the

C-26 PREAMPLIFIER

Performance Limits

BASS:
Separate 11 position rotary switches for each channel. -20 dB to +16 dB at 20 Hz.

TREBLE:
Separate 11 position rotary switches for each channel. -20 dB to +20 dB at 20,000 Hz.

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

TAPE MONITOR:
Two pushbutton switches. Either of two tape recorders can be monitored by selecting the TAPE 1 pushbutton or TAPE 2 pushbutton. They are mechanically interlocked to accept only one pushbutton at the IN position at one time.

LF FILTER (Rumble Filter):
Flat or roll-off 6 dB per octave below 50 Hz, down 12 dB at 20 Hz.

HF FILTER (Scratch Filter):
Flat or roll-off 6 dB per octave above 6,000 Hz, down 12 dB at 20,000 Hz.

SPEAKER:
Main - Switch the MAIN loudspeaker system ON or OFF without affecting the performance of REMOTE speakers.
Remote - Switch the REMOTE loudspeaker system ON or OFF without affecting the performance of MAIN speakers.

HEADPHONE JACK:
For listening with low impedance dynamic stereo headphones. Power to this jack is supplied when the output of the amplifier is properly connected to the C 26.

CENTER CHANNEL LEVEL:
Top of chassis control to adjust 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.

FREQUENCY RESPONSE: +0, -0.5 dB 20 Hz to 20,000 Hz.

DISTORTION: Will not exceed 0.1% at any level up to 2.5 volts output, 20 Hz to 20,000 Hz.

INPUT SENSITIVITY AND IMPEDANCE: AUXILIARY, TUNER, TAPE 1, TAPE 2, 0.25 volts at 250,000 ohms. PHONO 1 and PHONO 2, 2 millivolts at 47,000 ohms (1,000 Hz).

HUM AND NOISE: AUXILIARY, TUNER, TAPE 1, and TAPE 2, 85 dB below rated output. PHONO 1, PHONO 2, 74 dB below 10 millivolts input, equivalent to less than 2 microvolts at the input terminals.

OUTPUT LEVEL AND IMPEDANCE:
MAIN OUTPUT 2.5 volts with rated input, 200 ohms source impedance, to operate into 47,000 ohms or more.
TAPE OUTPUT 0.25 volts, 200 ohms source impedance, from low level inputs to operate into 47,000 ohms or more.
CENTER CHANNEL OUTPUT (L x R) 2.5 volts with rated input to both channels, 1,200 ohms source impedance, to operate into 47,000 ohms or more. A level control adjusts the CENTER CHANNEL output from +6 dB with respect to MAIN output.

AMPLIFICATION IN DECIBELS:
AUXILIARY, TUNER, TAPE 1 and TAPE 2.
to MAIN OUTPUT 20 dB.
to TAPE OUTPUT 0 dB.
PHONO 1 and PHONO 2 (at 1,000 Hz).
to MAIN OUTPUT 62 dB.
to TAPE OUTPUT 42 dB.

SEMICONDUCTOR:
18 silicon-planar transistors, and 3 silicon diodes.

POWER REQUIREMENT:
117 volts, 50/60 Hz, 15 watts.

MECHANICAL

SIZE: Front panel: 16 inches wide (40.65 cm) by 5-7/16 inches high (13.8 cm). Chassis: 15 inches wide (38.1 cm) by 5 inches high (12.7 cm) by 13 inches deep (33.1 cm) including PANLOC mounting brackets and back panel connectors. Knob clearance required as 1-1/2 inches (3.85 cm) in front of the mounting panel.

FINISH: Front panel is anodized gold and black with special McIntosh gold/teal panel nomenclature illumination.

CHASSIS: black.

MOUNTING: McIntosh developed professional PANLOC.

WEIGHT: 18 pounds (8.16 kg) net, 33 pounds (14.97 kg) in shipping carton.

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 when listening to FM stations to determine the best possible performance for your listening enjoyment. The McIntosh Maximum Performance Indicator makes it easy for you to attain professional broadcasting quality FM listening. To overcome multipath reception it is necessary to orient the antenna for minimum multipath reception. Multipath is an antenna and reception problem which is generally independent of tuner specifications or performance. 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.

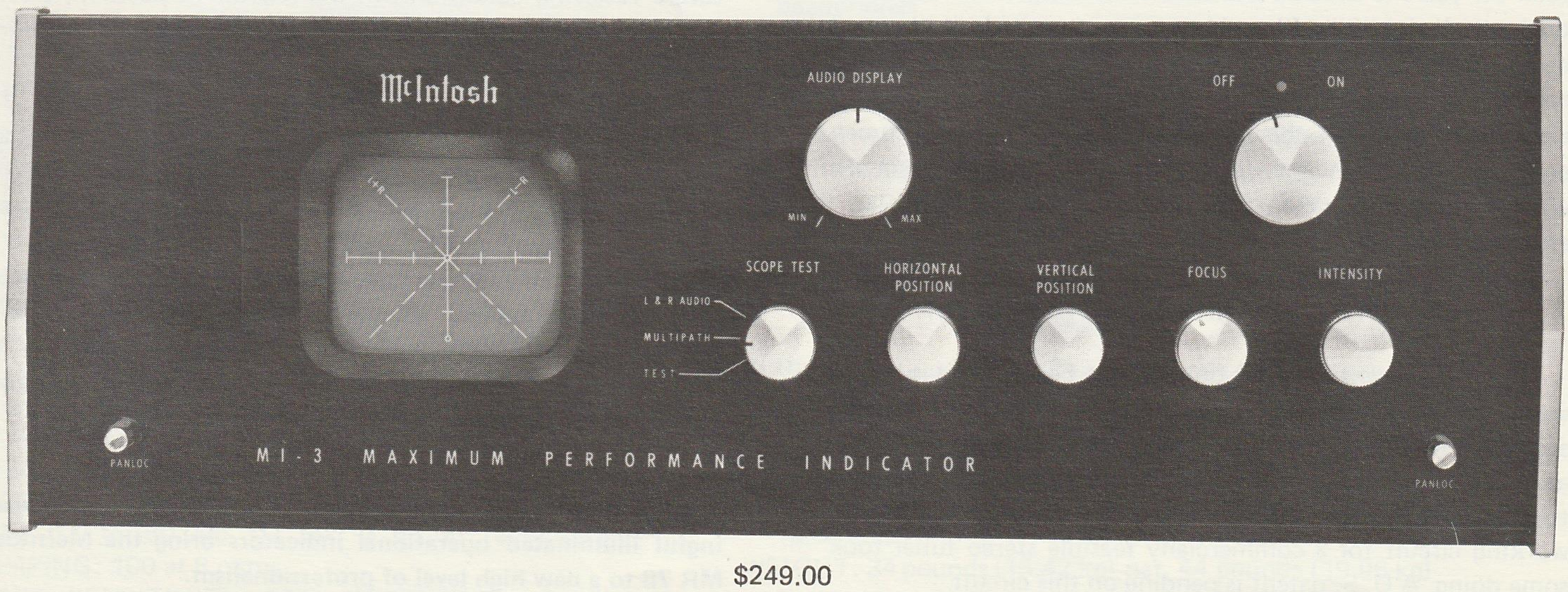
HERE IS HOW IT WORKS

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 the display relative to 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 indicated on the screen is approximately 75 kHz, the frequency deviation to 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 Scope display shows you the amount of stereo separation, amplitude and phase of the signals present.



$249.00

Ceretti

THOROUGH, UNINHIBITED RESEARCH HAS DEVELOPED THE NEW TECHNOLOGY NECESSARY FOR A TRULY LOW DISTORTION FM TUNER WITH VARIABLE SELECTIVITY

..... THE McINTOSH MR 78!

McIntosh research is a continuous program of exploration for new technology that permits performance improvement and greater value for you. This unrestricted research program developed the new technology necessary for the realization of these new design concepts for the MR 78.

THE DISTORTIONLESS IF FILTER

Ever since the beginning of FM, research engineers have realized that constant delay IF filters (equivalent to linear-phase) were necessary for low distortion reception. Crude approximations to constant delay have always been used in FM tuners - with disappointing results. So-called "Butterworth" or "Legandre" filters offer only a fair compromise with respect to delay error. Crystal and ceramic filters, usually based on the "Chebychev" model, work fairly well and give good selectivity, but none of these are constant delay (linear-phase) filters. Commercial tuners using these filters can show 5% stereo IM distortion at 100% modulation. The filters used in todays tuners can have delay errors up to 100%! The IF filter in the MR 78 has a delay error of less than 1% from antenna input to discriminator output! In its useful bandpass, it is a true mathematical approximation to linear-phase - the world's finest selective, linear-phase, minimum-phase shift filter.

A FORTRAN computer program using an algorithm that took six years to develop was used in its design. The mathematical complexity of the filter design procedure is almost beyond belief. Using a process called "numerical integration in the complex S-plane," a high speed IBM 1130 computer spent eighteen minutes on the design of the IF filter. A human engineer, working twenty-four hours a day and seven days a week, would have taken 300 years to finish this work . . . assuming he made no mistakes!

LINEAR PHASE BRIDGE DISCRIMINATOR

The excellence of the IF filter would be useless if it had to work into an ordinary FM detector. Thus a new detector with suitably low distortion had to be developed. A search of the available literature revealed a little-known bridge circuit with a theoretical distortion of zero! However, designing a practical working circuit for a commercially feasible stereo tuner took some doing. A U. S. patent is pending on this circuit.

Distortion performance of the bridge detector is pretty close to the theoretical zero. In addition to its excellent distortion performance, the bridge detector also exhibits capture ratio close to 0 dB.

Tuned circuits are not used in the MR 78 detector. They are quite difficult to manufacture and align accurately, and ordinary tuned-circuit discriminators go out of adjustment. There has been much talk about "permanently aligned" IF filters, but much silence concerning the most important source of misalignment in these same tuners - the discriminator. The two simple variable resistor adjustments in the MR 78 detector merely center the tuning meter and set the transistor bias. Complex tuning for minimum distortion is not needed.

NEW VARIABLE SELECTIVITY

The MR 78 has excellent selectivity. The bandwidth (210 kHz wide at 60 dB down) permits tuning stations that are impossible on ordinary tuners. Even though the MR 78 has the narrowest IF bandwidth ever used in a stereo tuner, (it is the correct width to let just one FM station through) the great number of stations crowding the FM band requires a tuner with variable selectivity.

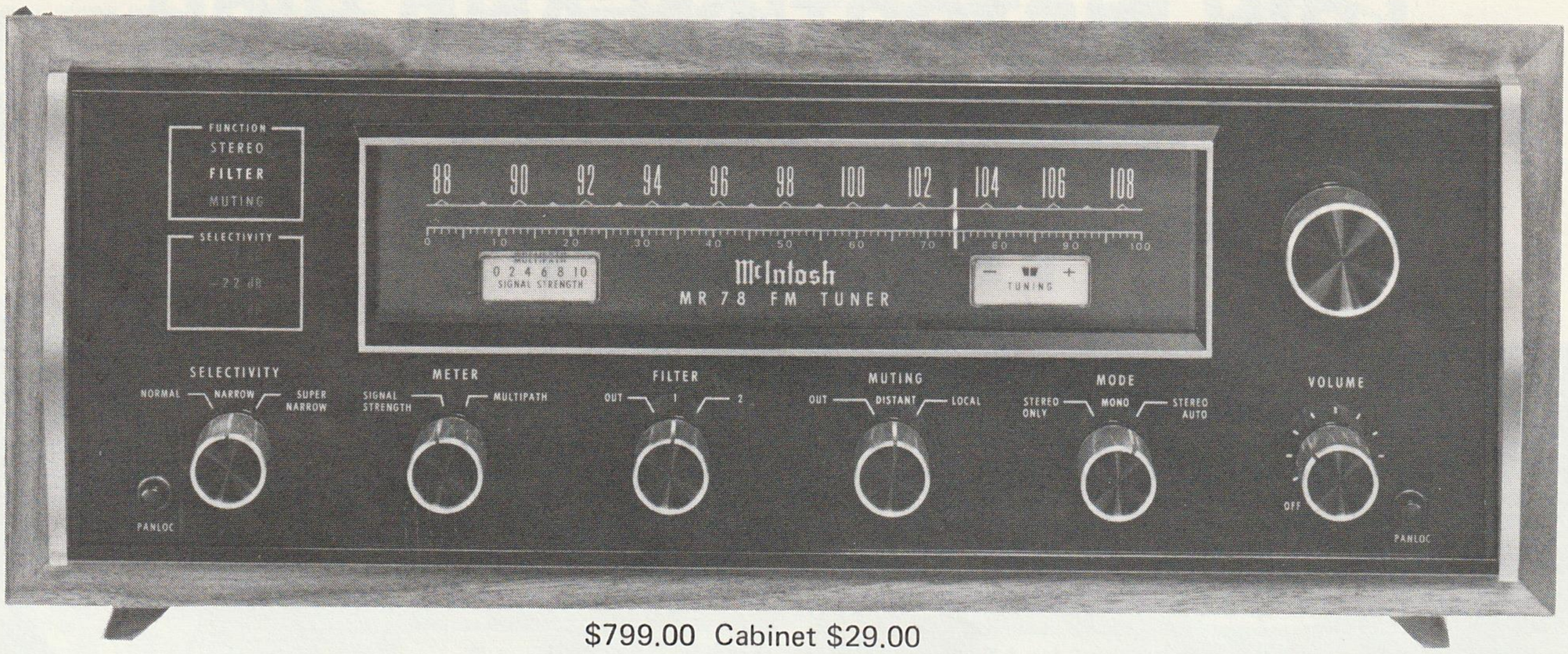
Variable selectivity allows stereo reception even under severe receiving conditions. In the NORMAL position, a very low distortion 8-pole filter is used in the IF circuit for listening to local broadcasts.

The NARROW position adds a sharp 8-pole filter to the NORMAL IF filter to yield a low distortion (less than 0.2%), highly selective 16-pole composite IF filter. In the NARROW position interference is reduced while receiving distant stations.

SUPER-NARROW position adds a 4-pole 4-zero crystal filter to the two other IF filters. SUPER NARROW permits receiving distant stations which are on channels adjacent to local stations. With an adequate FM antenna there are usable signals never heard before with ordinary FM tuners.

Beautiful styling, extended control flexibility and meaningful illuminated operational indicators bring the McIntosh MR 78 to a new high level of professionalism.

Ceretti



$799.00 Cabinet $29.00

PERFORMANCE GUARANTEE:

Performance limits are the maximum deviation from perfection permitted for a McIntosh instrument. We promise you that the MR78 you buy must be capable of performance at or exceeding these limits or you get your money back. McIntosh is the only manufacturer that makes this guarantee.

Performance Limits

TUNING RANGE:
88 to 108 MHz.

ANTENNA INPUTS:
300 ohms balanced; 75 ohms unbalanced.

INTERMEDIATE FREQUENCY:
10.7 MHz.

SENSITIVITY:
2μV for 35 dB quieting; 2.5μV at 100% modulation ($\pm$75 kHz deviation) for 3% total noise and harmonic distortion.

SIGNAL TO NOISE RATIO:
75 dB below 100% modulation.

HARMONIC DISTORTION:
0.2% mono or stereo at 100% modulation to 15,000 Hz. Typically, 0.05% at 1,000 Hz.

DRIFT:
25,000 Hz for the first two minutes; thereafter 5,000 Hz at 25° C.

FREQUENCY RESPONSE:
Mono: $\pm$ 1 dB 20 Hz to 20,000 Hz with standard de-emphasis, (75μS); Stereo: $\pm$ 1 dB 20 Hz to 15,000 Hz with standard de-emphasis (75μS).

CAPTURE RATIO:
0.25 dB detector only; 2.5 dB complete tuner.

SELECTIVITY:
Switch Setting:

	NORMAL	NARROW	SUPER NARROW
Adjacent Channel	7 dB	22 dB	55 dB
Alternate Channel	55 dB	80 dB	80 dB

SPURIOUS REJECTION:
100 dB.

IMAGE REJECTION:
100 dB at 90 MHz; 90 dB at 105 MHz.

INTERMODULATION DISTORTION:
0.2% mono or stereo for any combination of frequencies from 20 Hz to 15,000 Hz with peak modulation equal to 100% or less. Typically 0.1%.

MAXIMUM SIGNAL INPUT:
12 volts across 300 ohm antenna terminals will not increase harmonic or intermodulation distortion.

AUDIO HUM:
70 dB down from 100% modulation.

MUTING:
70 dB noise reduction between stations.

MUTING THRESHOLD (Typical):
DISTANT position 5μV; LOCAL position 20μV

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

STEREO SEPARATION:
40 dB at 1,000 Hz.

STEREO FILTER (Typical):
10 dB noise reduction in Position 1.
20 dB noise reduction in Position 2.

AUDIO OUTPUT:
Front Panel Controlled: 2.5 volts into 47,000 ohms; Fixed Output: 2.5 volts into 47,000 ohms, 1.0 volts into 600 ohms. 1.0 volts into 600 ohms.

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

GENERAL

POWER REQUIREMENT:
120 volts, 50/60 Hz 35 watts.

SEMICONDUCTOR COMPLEMENT:
3 JFET's, 2 MOSFET's, 17 Bipolar Transistors, 43 Diodes, 4 Integrated Circuits.

MECHANICAL

SIZE:
Front Panel: 16 inches wide (40.65 cm) by 5-7/16 inches high (13.8 cm); Chassis: 15 inches wide (38.1 cm) by 13 inches deep (33.1 cm), including PANLOC shelf and back panel connectors; Knob clearance: 1-1/2 inches (3.85 cm) in front of mounting panel.

WEIGHT:
27 pounds (12.25 kg) net, 39 pounds (17.69 kg) in shipping carton.

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

MOUNTING:
McIntosh developed professional PANLOC.

Ceretti

LOW DISTORTION AND HIGH PERFORMANCE FOR SUPERIOR FM

THE MR 77



$649.00 Cabinet $29.00

Performance Limits

USABLE SENSITIVITY:
2 μV for 35 dB of quieting, 2.5 microvolts typical.

SIGNAL TO NOISE RATIO:
75 dB below 100% modulation

HARMONIC DISTORTION:
Will not exceed 0.2% mono or stereo at 100% modulation, 20 Hz to 18,000 Hz.

INTERMODULATION DISTORTION:
Will not exceed 0.2% mono or stereo for any combination of frequencies from 20 Hz to 15,000 Hz with peak modulation equal to 100% or less, 0.1% typical.

AUDIO FREQUENCY RESPONSE:
$\pm$ 1 dB 20 Hz to 18,000 Hz with standard de-emphasis, (75 μs) and 19,000 Hz pilot filter.

CAPTURE RATIO:
0.25 dB detector only; 2.5 dB complete tuner at 100% modulation.

SPURIOUS REJECTION:
100 dB.

IMAGE REJECTION:
100 dB at 90 MHz; 90 dB at 105 MHz.

SELECTIVITY:
Adjacent channel 6 dB, carrier 47 dB down; Alternate channel 50 dB, carrier 90 dB down.

STEREO SEPARATION:
40 dB at 1,000 Hz.

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

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

DRIFT:
25,000 Hz in first two minutes; thereafter 5,000 Hz in normal temperatures.

MUTING:
70 dB noise reduction between stations.

MUTING THRESHOLD:
Position 1, 5 μV. Position 2, 20 μV.

ANTENNA INPUTS:
300 ohms balanced; 75 ohms unbalanced.

MAXIMUM SIGNAL INPUT:
12 volts across 300 ohms antenna terminals will not increase harmonic or intermodulation distortion.

AUDIO OUTPUT:
2.5 volts into 47,000 ohms; 1 volt into 600 ohms from fixed output.

IF SYSTEM:
8-Pole Rimo filter,
2 IC's
1 J-FET, and push-pull overlay power transistor stage driving a linear phase bridge discriminator.

STEREO INDICATOR:
Stereo light activated by 19,000 Hz only.

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

SEMICONDUCTOR COMPLEMENT
21 Transistors
4 Integrated Circuits
1 Indicator Tube.

POWER REQUIREMENT:
117 volts, 50/60 Hz. 35 watts.

MECHANICAL

SIZE:
Front Panel: 16 inches wide (40.65 cm) by 5-7/16 inches high (13.8 cm); Chassis: 15 inches wide (38.1 cm) by 13 inches deep (33.1 cm) including PANLOC shelf and back panel connectors. Knob Clearance: 1-1/2 inches (3.85 cm) in front of mounting panel.

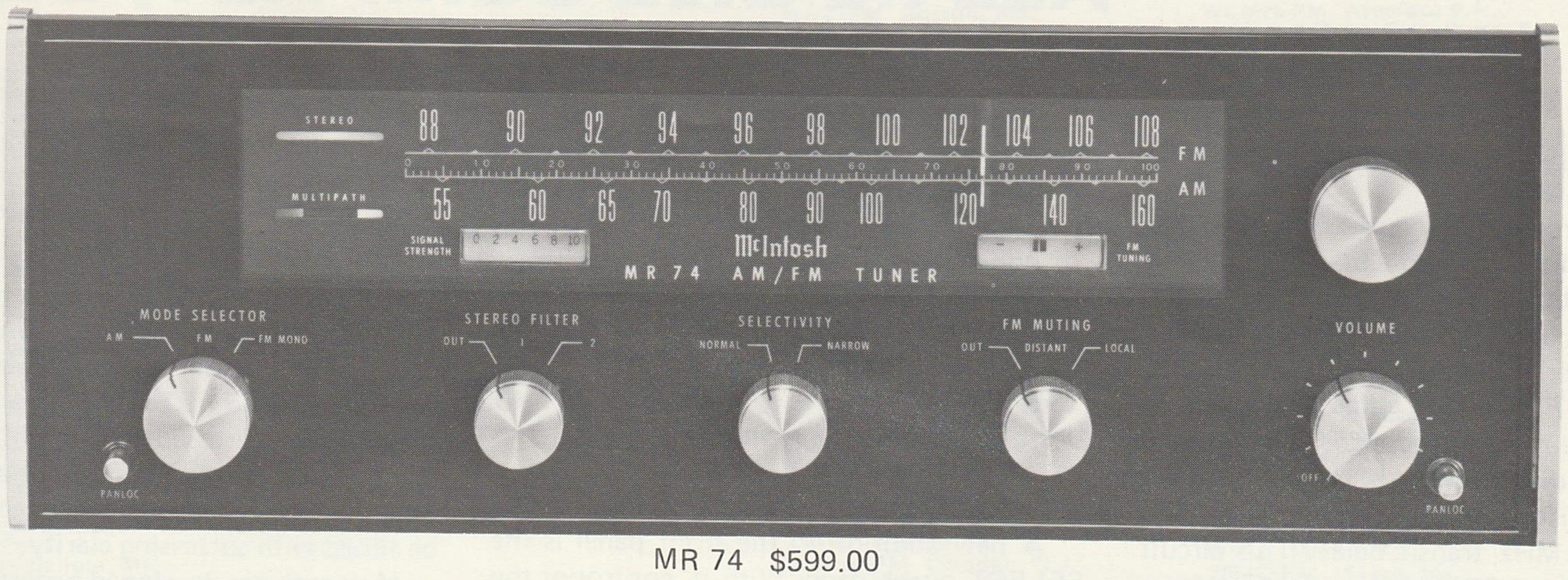
FINISH:
Front Panel: Anodized gold and black with special gold/teal nomenclature illumination. Chassis: Chrome and black.

MOUNTING:
McIntosh developed professional PANLOC.

WEIGHT:
27 pounds (12.25 kg) net,
39 pounds (17.69 kg) in shipping carton.

Ceretti

NEW ENGINEERING NEW PERFORMANCE IN AN AM/FM—FM STEREO TUNER



MR 74 $599.00

A new addition to the front panel is the SELECT pushbutton. With it, control of the IF characteristics is brought to the front panel. It allows stereo reception even under severe receiving conditions. In the NORMAL position a very low distortion dual Quad-Tuned IF filter is used. The dual Quad-Tuned IF filter has unusual adjacent channel selectivity and low distortion. The Quad-Tuned IF filter has equal time delay in its pass band region. All other IF filters have excessive delay distortion. The Quad-Tuned IF filter has almost no delay distortion from antenna input to discriminator output! You get overall lower distortion performance.

Activating the SELECTivity pushbutton routes the signal to two double-tuned transformers, a ceramic filter network, and a single-gate MOS-FET. The sides of the IF curve are compressed by this circuit narrowing the IF bandpass. In this mode of operation weak stations adjacent to strong stations can be tuned with surprising clarity.

McIntosh has developed a special detecting circuit used in the multiplex section. A particular advantage of this circuit is the elimination of the critical adjustments necessary with commonly used matrixing circuits. The circuit detects the L - R sidebands, then automatically matrixes the recovered information with the L + R carrier signal. This yields the left and right program output with maximum separation.

AM

For greater spurious rejection the AM-RF amplifier circuit includes a three section variable tuning capacitor in the metal enclosed shielded RF module which also houses the FM-RF front end. The AM circuit has constant sensitivity, constant selectivity, high image rejection across the complete AM band. This circuit design achieves equal sensitivity even down at the low end of the band. Spurious, image, and intermediate frequency rejection are all superior. The McIntosh circuit is unique in a superheterodyne AM receiver.

A high-quality loopstick antenna is provided. It can be rotated for maximum performance, optimum signal rejection or minimum interference. Each loopstick is individually tuned for optimum performance. After tuning the loopstick is then sealed. Custom matching of the loopstick to the AM-RF front end maximizes the performance of the loopstick antenna.

Performance Limits

FM

SENSITIVITY: 2.5 μV at 100% modulation (±75 kHz deviation) for 3% total noise and harmonic distortion
SIGNAL TO NOISE RATIO: 70 dB below 100% modulation
HARMONIC DISTORTION: MONO - 0.3% at 100% modulation ±75 kHz deviation; STEREO - 0.5% at 100% modulation
DRIFT: 25,000 Hz for the first two minutes; thereafter 5,000 Hz at ambient temperatures
FREQUENCY RESPONSE: ±1 dB 20 Hz to 15,000 Hz with standard de-emphasis (75 μ sec.) and 19,000 Hz pilot filter
CAPTURE RATIO: 1.5 dB minimum
SELECTIVITY

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

SPURIOUS REJECTION: 90 dB
IMAGE REJECTION: 95 dB (88 to 108 MHz)
MUTING: 50 dB noise reduction in LOCAL position
SCA FILTER: 50 dB down from 67 kHz to 74 kHz; 275 dB per octave slope
STEREO SEPARATION: 35 dB at 1,000 Hz
STEREO FILTER: 10 dB noise reduction in Position 1; 20 dB noise reduction in Position 2

AM

SENSITIVITY: 75 μV (external ant.)
SIGNAL TO NOISE RATIO: 55 dB at 100% modulation; 45 dB minimum
HARMONIC DISTORTION: Does not exceed 1% at 30% modulation
SELECTIVITY, ADJACENT CHANNEL: 35 dB minimum in NORMAL position; 45 dB minimum in NARROW position
IMAGE REJECTION: 65 dB minimum 540 kHz - 16000 kHz
FREQUENCY RESPONSE: 3500 Hz - 6 dB down, NORMAL position; 2100 Hz - 6 dB down, NARROW position. All tuner performance limits were measured with SELECTIVITY at NORMAL, unless otherwise stated.

GENERAL

POWER REQUIREMENTS: 120 volts, 50/60 Hz, 30 watts
SEMICONDUCTOR COMPLEMENT: 5 FETs, 17 transistors, 2 ICs, 28 diodes, 1 indicator tube

MECHANICAL

SIZE:
Front panel: 16 inches wide (40.65 cm) by 5-7/16 inches high (13.8 cm); Chassis: 15 inches wide (38.1 cm) by 13 inches deep (33.1 cm), including Panloc shelf and back panel connectors; Knob clearance: 1-1/4 inches (3.2 cm) in front of mounting panel.
WEIGHT:
25 pounds (11.35 kg) net; 37 pounds (16.78 kg) in shipping carton.
FINISH:
Front Panel: Anodized gold and black with special gold/teal panel nomenclature illumination; Chassis: Chrome and black.
MOUNTING:
McIntosh developed professional PANLOC

Ceretti

HIGH PERFORMANCE, SOLID STATE RELIABILITY AND IDEAL FLEXIBILITY.... ALL IN ONE COMPACT, BEAUTIFUL STEREO CONTROL CENTER

OUTSTANDING NEW DESIGN AND PERFORMANCE

The IF in the FM consists of two integrated circuits and two Quad-Tuned, link coupled, filters. They combine to give a total gain of over 120 dB (the signal is amplified to over 1,000,000 times its original level). The IF filter has equal time delay in its pass band region. Any error in time delay causes FM distortion. All other IF filters have delay distortion, some as much as 100% of the 10.7 MHz transit delay. This circuit has less than 1.0% delay distortion from antenna input to discriminator output which makes possible the overall low distortion performance limit for the FM tuner and multiplex section.

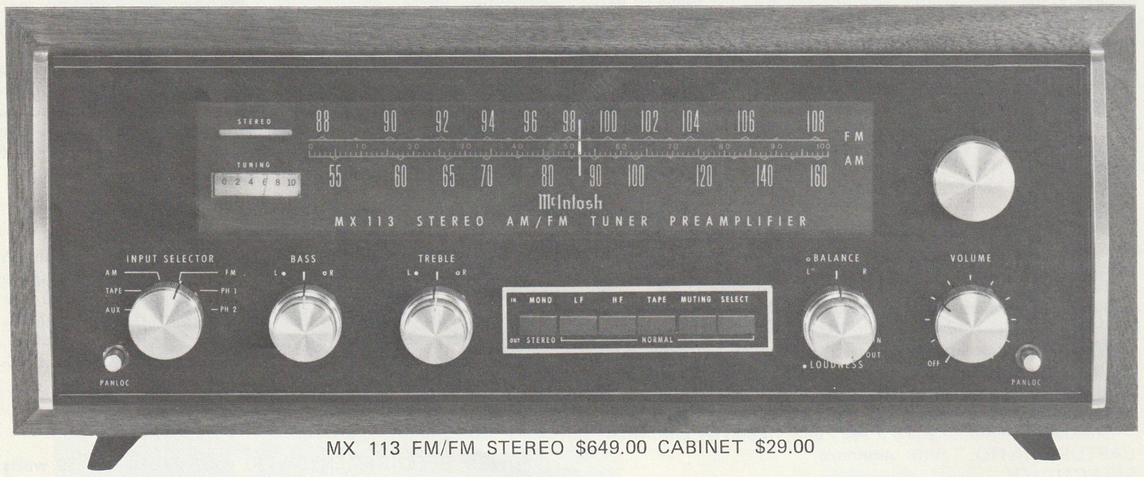
The response curve of the IF has nearly linear phase characteristic. The skirts of the response curve are very steep. The maximum width is 170 kHz at — 3.0 dB and 500 kHz at — 60 dB. The response curve is symmetrical each side of the center frequency. The filters are permanently sealed and do not require adjusting. The IF cannot drift nor vibrate out of adjustment. The exceptionally high gain of the two integrated circuits assures "hard limiting" at very low levels of input signals. Each integrated circuit contains 16 transistors, 3 zener diodes, 5 diodes and 23 resistors, all on a single monolithic silicon chip.

VARIABLE SELECTIVITY

A new addition to the front panel is the SELECT pushbutton. With it, control of the IF characteristics is brought to the front panel. It allows stereo reception even under severe receiving conditions. In the NORMAL position a very low distortion dual Quad-Tuned IF filter is used. It exhibits unusual excellent adjacent channel selectivity and low distortion. The Quad-Tuned IF filter has equal time delay in its pass band region. All other IF filters have excessive distortion. The Quad-Tuned IF filter has almost no delay distortion from antenna input to discriminator output! You get overall lower distortion performance.

Activating the SELECTivity pushbutton routes the signal to two double-tuned transformers, a ceramic filter network, and a single-gate MOS-FET. The sides of the IF curve are compressed by this circuit narrowing the IF bandpass. In this mode of operation weak stations adjacent to strong stations can be tuned with surprising clarity.

McIntosh has developed a special detecting circuit used in the multiplex section. A particular advantage of this circuit is the elimination of the critical adjustments necessary with commonly used matrixing circuits. The circuit detects the L—R sidebands, then automatically matrixes the recovered information with the L + R carrier signal. This yields the left and right program output with maximum separation.



MX 113 FM/FM STEREO $649.00 CABINET $29.00

AM-FM/FM STEREO

For greater spurious rejection the AM-RF amplifier circuit includes a three section variable tuning capacitor in the metal enclosed shielded RF module which also houses the FM-RF front end. The AM circuit has constant sensitivity, constant selectivity, high image rejection across the complete AM band. This circuit design achieves equal sensitivity even down at the low end of the band. Spurious, image, and intermediate frequency rejection are all superior. The McIntosh circuit is unique in a superheterodyne AM receiver.

A high-quality loopstick antenna is provided. It can be rotated for maximum performance, optimum signal reception or minimum interference. Each loopstick is individually tuned for optimum performance. After tuning the loopstick is then sealed. Custom matching of the loopstick to the AM-RF front end maximizes the performance of the loopstick antenna.



MX 115 AM - FM/FM STEREO $599.00
CABINET $29.00

Performance Limits

FM

USABLE SENSITIVITY: 2.5 microvolts at 100% modulation (± 75 kHz deviation) for less than 3% total noise and harmonic distortion.
SIGNAL TO NOISE RATIO: 70 dB at 100% modulation.
HARMONIC DISTORTION: Mono: Will not exceed 0.3% at 100% modulation ± 75 kHz deviation. Stereo: Will not exceed 0.7% at 100% modulation ± 75 kHz deviation.
FREQUENCY RESPONSE: ± 1 dB from 20 Hz to 15,000 Hz with standard de-emphasis and 19,000 Hz pilot filter.
CAPTURE RATIO: 1.5 dB.
SPURIOUS REJECTION: 90 dB
IMAGE REJECTION: 95 dB; 88 to 108 MHz
STEREO SEPARATION: Exceeds 35 dB at 1,000 Hz.
SELECTIVITY: Adjacent Channel; Exceeds 6 dB with SELECT button OUT, exceeds 15 dB with SELECT button IN. Alternate Channel; Exceeds 58 dB with SELECT button OUT, exceeds 88 dB with SELECT button IN.
TUNING INDICATOR: D'Arsonval movement meter with increased sensitivity.
STEREO INDICATOR: Stereo light activated by 19,000 Hz. pilot signal only.

AM (MX113 Only)

SENSITIVITY: 75 microvolts at 1,000 kHz (using external antenna input).
SIGNAL TO NOISE RATIO: 45 dB
HARMONIC DISTORTION: 1% at 30% modulation.
FREQUENCY RESPONSE: Down 6 dB at 3,500 Hz.
ADJACENT CHANNEL SELECTIVITY: Exceeds 35 dB with SELECT button at the OUT position. Exceeds 45 dB with SELECT button at the IN position.
IMAGE REJECTION: 65 dB; 540 kHz to 1600 kHz.

PREAMPLIFIER

FREQUENCY RESPONSE: ± 0.5 dB, 20 to 20,000 Hz.
DISTORTION: Will not exceed 0.1% at 2.5 volts output, 20 to 20,000 Hz.
INPUT SENSITIVITY AND IMPEDANCE: PHONO 1 and PHONE 2: 2 millivolts for 2.5 volts output at 1,000 Hz; 47,000 ohms at 1000 Hz.
AUX and TAPE: 0.25 volts for 2.5 volts output; 250,000 ohms.
VOLTAGE AMPLIFICATION: PHONO 1, PHONO 2 to MAIN output 62 dB, to TAPE output 42 dB. AUX, TAPE to MAIN output 20 dB to TAPE output 0 dB.
OUTPUT:
MAIN: 2.5 volts with rated input. Up to 10 volts can be developed without increase in distortion. FM will produce 10 volts output at 100% modulation.
TAPE: 0.25 volts with rated input. Phono signal to 10 millivolts produces 1.2 volts output. FM will produce 1 volt output at 100% modulation.
L + R 2 volts with rated input
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 2.5 volts output, unweighted.
BASS CONTROL: —18 dB to + 16 dB at 20 Hz.
TREBLE CONTROL: ± 20 dB at 20,000 Hz.
LF FILTER: Flat or roll off below 50 Hz, down 12 dB at 20 Hz.
HF FILTER: Flat or roll off above 5,000 Hz, down 12 dB at 20,000 Hz.
POWER REQUIREMENTS: 120 volts, 50/60 Hz, 30 watts.
TRANSISTOR COMPLEMENT (MX113):
2 — JFET
3 — MOSFET
30 — Silicon Planar
31 — Diodes
2 — Integrated Circuits (each contains the equivalent of 16 transistors and 8 diodes).
TRANSISTOR COMPLEMENT (MX115):
2 — JFET
3 — MOSFET
26 — Silicon Planar
27 — Diodes
2 — Integrated Circuits (each contains the equivalent of 16 transistors and 8 diodes).

FACILITIES AND FEATURES

VOLUME CONTROL: Precision "tracked" at all listening levels. (0 to —65 dB). Does not change stereo balance as loudness is changed. The AC power ON/OFF switch is coupled with this control.
BALANCE CONTROL: Natural balance at center position, attenuation of left or right channel by rotating control.
LOUDNESS: Loudness compensated or flat response — Loudness position boosts low frequencies for low level listening. Operates as a function of volume control position. Full compensation is obtained at lower volume levels and flat response is obtained at full volume.
SELECTIVITY: Increases the ability of the tuner to separate a weak (distant) station from a strong (local) station on adjacent channels.
MODE: Selects either stereo or mono operation.
PHASE CONTROL: Electronically reverses phase in the left channel to correct "out of phase" program sources.
MUTING: Suppresses the background noise and hiss normally heard between FM stations.
TAPE MONITOR: Pushbutton; compares recorded tape with program source while recording.
MUTING ADJUST: Modifies the noise rejection threshold on FM.
DIAL SCALE INTENSITY: Modifies the brightness of the illumination of the front panel.

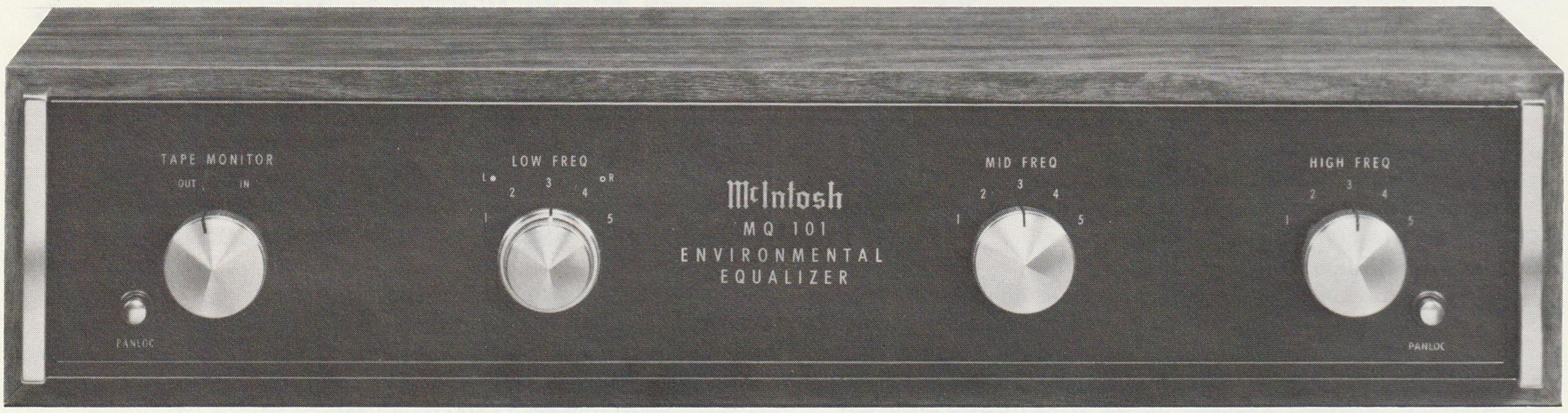
MECHANICAL

SIZE: Front panel: 16 inches wide (40.65 cm) by 5-7/16 inches high (13.8 cm); Chassis: 15 inches wide (38.1 cm) by 13 inches deep (33.1 cm), including PANLOC shelf and back panel connectors; Knob Clearance: 1-1/2 inches (3.85 cm) in front of mounting panel.
FINISH: Front panel: Anodized gold and black with special gold/teal panel nomenclature illumination; Chassis: Chrome and black.
MOUNTING: McIntosh developed professional PANLOC.
WEIGHT:
MX113 — 26 pounds (11.79 kg) net, 38 pounds (17.24 kg) in shipping carton.
MX115 — 25 pounds (11.34 kg) net, 37 pounds (16.78 kg) in shipping carton.

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With Your McIntosh Loudspeakers Use The....

McINTOSH ENVIRONMENTAL EQUALIZER FOR THE SOUND OF REALITY IN YOUR LISTENING ROOM

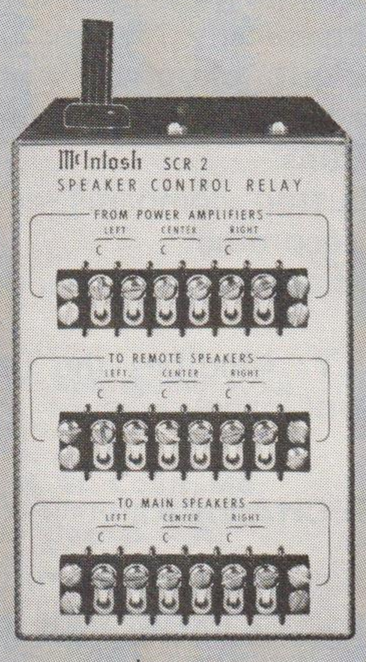


MQ 101 – $250.00 Includes Walnut Cabinet

In McIntosh loudspeakers, the characteristics of the speaker enclosure (cabinet) and of the loudspeaker have been combined to produce near perfect transient response. The design for excellent transient response must compromise the system's low frequency response. The most effective way of restoring flat low frequency response is the use of an electrically equalized speaker input signal. McIntosh Environmental Equalizers do that job.

SCR-2

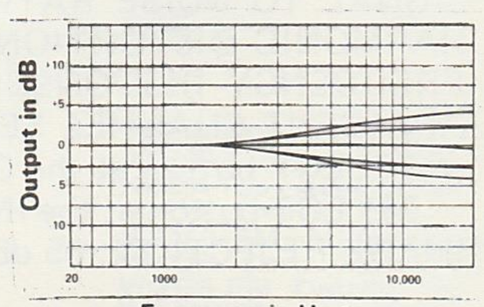
Speaker Control Relay



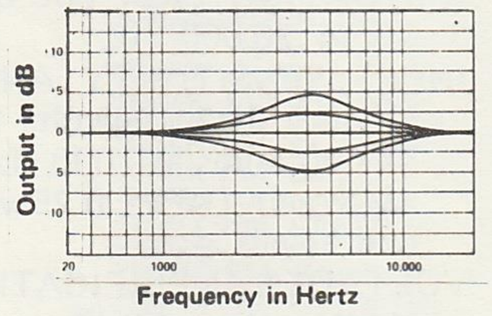
$74.50

The McIntosh Speaker Control Relay is designed for use with the McIntosh C 28 Stereo Preamplifier. The SCR 2 provides for remote control of both the AC power to a remote amplifier and the on/off control of the Main and Remote loudspeakers. Control for the SCR 2 is provided by pushbuttons and a low voltage supply in the C 28.

A switch selects from the five different high frequency equalization curves. High frequency control permits the tailoring of the response of the entire system to compensate for room characteristics such as large areas of glass and large areas of plaster.

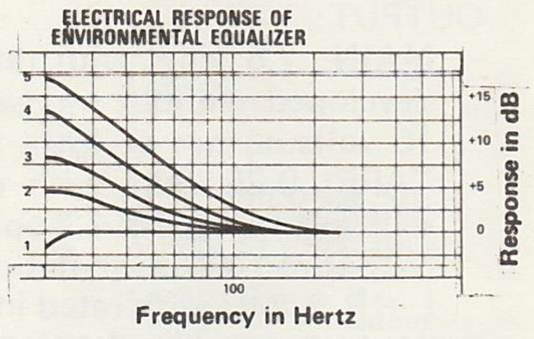


A switch selects from five different mid-frequency equalization curves. Mid-frequency control permits the tailoring of the response of the entire system to compensate for room furnishings and room acoustics.



The MQ 101 McIntosh Environmental Equalizer is a three band equalizer divided into low frequencies, mid-frequencies and high frequencies.

A concentric switch selects from five different low frequency equalization curves independently in each channel. In addition to restoring flat response the low frequency equalization is used to compensate for the placement of loudspeakers in the listening room.



The McIntosh MQ 102 is a single band equalizer that compensates below 150 Hz. The performance and operation are identical to the MQ 101 low frequency compensation abilities.



$74.50

Ceretti

WHAT MAKES A GOOD MUSIC SYSTEM GREAT?

...DELICATE MUSICAL PASSAGES ARE REPRODUCED WITH CLEANNESS– THUNDEROUS CRESCENDOS WITH ALL THE INSTRUMENTS CLEARLY DEFINED– AND RESERVE ENERGY TO GO FROM ONE TO THE OTHER WITHOUT TAXING THE SYSTEM---THESE ARE ARE WHAT McINTOSH AMPLIFIERS CAN DO FOR YOU.

McIntosh amplifiers have been the "LABORATORY STANDARD" in vacuum electronics for 20 years. McIntosh audio scientists have generated solid state innovations that have continued the McIntosh reputation for "LABORATORY STANDARD". New levels of performance, even greater reliability, and highest quality have created levels of cleanness and beauty 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 not to exceed 25/100 of 1% distortion at all audio frequencies at all power levels up to full rated power 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 on performance. Every McIntosh instrument must be capable of meeting its advertised performance limits or you get a refund of your purchase price. McIntosh promises performance. We either meet our promise or you get your money back.

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

Reliability and long trouble free life comes, in part, from McIntosh Sentry Monitoring Circuits.

The SENTRY MONITORING CIRCUIT prevents failure of the power transistors due to excessive mismatch of the output. With the amplifier operating normally the SENTRY MONITORING CIRCUIT has no effect on the signals passing through the power amplifiers. If the power dissipation should rise above normal, the SENTRY MONITORING CIRCUIT restricts the drive voltage to the output transistors. The SENTRY MONITORING CIRCUIT acts instantaneously. You are assured of complete circuit reliability. McIntosh is the only amplifier with this degree of protection.

To permit you to measure the performance, provide for correct system balance, and to obtain accurate power readings 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 circuits that permits the meters to respond to the short interval power in sound wave to an accuracy of 98% of the true value.

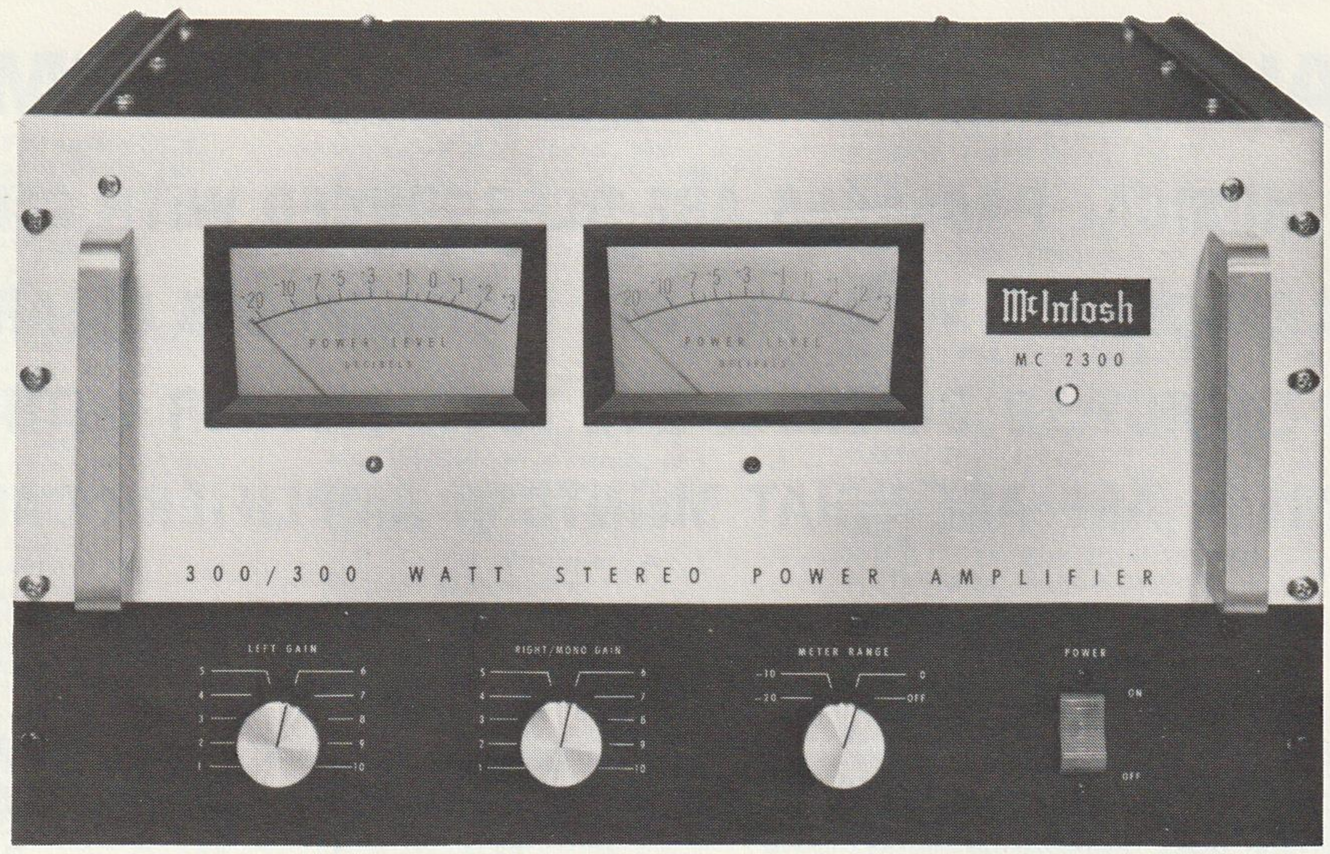
Two new circuits were required to provide the accuracy. The first circuit is an accelerating circuit. It compensates for the inertia characteristics of the meter movement. The second circuit is a "time stretching" circuit. Short interval power fluctuation is so rapid that the eye might not perceive the instantaneous power reading. The "time stretching" circuit holds the meter needle at peak reading for a few milliseconds to permit the eye to perceive. The DYNAMIC PEAK LOCKING METERS represent another major engineering advancement by McIntosh audio scientists.

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.

Ceretti

HEAR ALL THERE IS TO HEAR



$1299.00

STEREO POWER AMPLIFIER MC 2300

Performance Limits

POWER OUTPUT

Stereo: 300 watts continuous, per channel, both channels operating at rated power or less; which is:

12.247 volts RMS across 0.5 ohms
17.321 volts RMS across 1.0 ohms
24.495 volts RMS across 2.0 ohms
34.641 volts RMS across 4.0 ohms
48.989 volts RMS across 8.0 ohms
69.282 volts RMS across 16.0 ohms

Mono: 600 watts continuous, which is:

12.247 volts RMS across 0.25 ohms
17.321 volts RMS across 0.5 ohms
24.495 volts RMS across 1.0 ohms
34.641 volts RMS across 2.0 ohms
48.989 volts RMS across 4.0 ohms
69.282 volts RMS across 8.0 ohms

HARMONIC DISTORTION:

Stereo: Will not exceed 0.25% at any power level up to 300 watts power output from 20 Hz to 20,000 Hz both channels operating. Typical performance is less than 0.1% at rated power. Distortion decreases as output power is reduced.

Mono: Will not exceed 0.25% at any power level up to 600 watts power output from 20 Hz to 20,000 Hz. Typical performance is less than 0.1% at rated power. Distortion decreases as output power is reduced.

INTERMODULATION DISTORTION:

Stereo: Will not exceed 0.25% if instantaneous peak power output is 600 watts or less per channel with both channels operating for any combination of frequencies 20 Hz to 20,000 Hz.

Mono: Will not exceed 0.25% if instantaneous peak power output is 1200 watts or less for any combination of frequencies 20 Hz to 20,000 Hz.

FREQUENCY RANGE:

Stereo:

20 Hz to 20,000 Hz, +0 -0.5 dB at rated power; 1, 4, 8, or 16 ohms.
20 Hz to 20,000 Hz, +0 -1.0 dB at rated power; 0.5 and 2 ohms.
12 Hz to 35,000 Hz, +0 -1.5 dB at one-half rated power.

Mono:

20 Hz to 20,000 Hz, +0 -0.5 dB at rated power; 0.5, 2, 4, or 8 ohms.
20 Hz to 20,000 Hz, +0 -1.0 dB at rated power; 0.25, and 1.0 ohms.
12 Hz to 35,000 Hz, +0 -1.5 dB at one-half rated power.

NOISE AND HUM:

90 dB below rated output.

OUTPUT POWER MONITOR METER:

Meter is calibrated to read +3 dB when amplifier produces 300 watts continuous or 600 peak watts. Meter range switch is provided to increase meter sensitivity by 10 dB or 20 dB. Special circuit responds to peak values of complex input signal. Calibration accuracy at 0 dB is ±2% at all audio frequencies; meter range accuracy is ±5%.

OUTPUT IMPEDANCE:

Stereo: 0.5, 1, 2, 4, 8, and 16 ohms.
Mono: 0.25, 1, 2, 4, and 8 ohms.

OUTPUT VOLTAGES:

25 volts, stereo and mono; 70 volts, stereo and mono.

DAMPING FACTOR:

27 at 0.5 ohm output, 50 at 1 ohm output, 29 at 2 ohm output, 21 at 4 ohm output, 14 at 8 ohm output, 13 at 16 ohms output.

INPUT IMPEDANCE:

200,000 ohms.

INPUT SENSITIVITY:

0.5 volts input required to produce rated output. Level control provided for input voltages up to 30 volts.

POWER REQUIREMENTS:

120 volts, 50/60 Hz, 160 watts at zero signal output. 1400 watts at rated output.

SEMICONDUCTOR COMPLEMENT:

46 silicon transistors, 22 silicon rectifiers and diodes.

MECHANICAL

SIZE:

Front panel: 19 inches wide (48.3 cm) by 10-1/2 inches high (26.65 cm); chassis: 17 inches wide (43.2 cm) by 10 inches high (25.4 cm) by 17 inches deep (43.2 cm), including knobs 2 inches (5.1 cm).

FINISH:

Front panel: Anodized gold and black. Chassis: Black backed enamel.

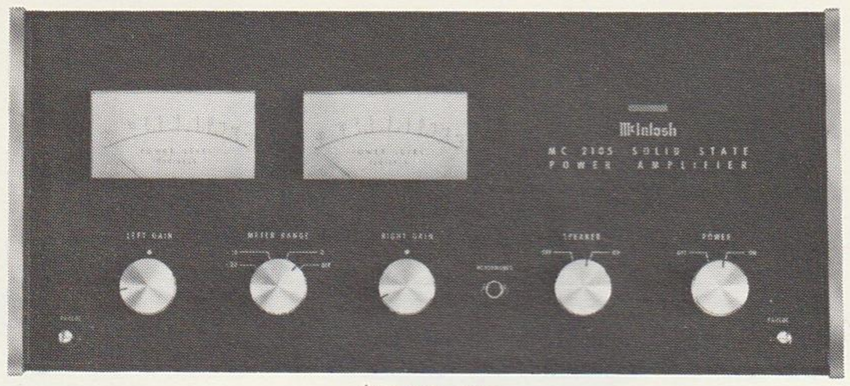
MOUNTING:

Standard 19 inch (48.3 cm) rack mounting

WEIGHT:

128 pounds (58.06 kg) net; 143 pounds (64.86 kg) in shipping carton.

Ceretti



$649.00

STEREO POWER AMPLIFIER MC 2105

Performance Limits

POWER OUTPUT:

105 watts continuous, per channel, both channels operating at rated power or less; which is:

20.493 volts RMS across 4 ohms
28.983 volts RMS across 8 ohms
40.987 volts RMS across 16 ohms

HARMONIC DISTORTION:

Will not exceed 0.25% at any power level up to 105 watts power output per channel from 20 Hz to 20,000 Hz, both channels operating. Typical performance is less than 0.1% at rated power. Distortion decreases as output power is reduced.

Will not exceed 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 20,000 Hz.

FREQUENCY RANGE:

20 Hz to 20,000 Hz +0 -0.25 dB at rated power.

NOISE AND HUM: 90 dB below rated output.

OUTPUT POWER MONITOR METER:

Meter is calibrated to read +3 dB when amplifier produces 100 watts continuous or 200 peak watts. Meter range switch is provided to increase meter sensitivity by 10 dB or 20 dB. Special circuit responds to peak value of complex input signal. Calibration accuracy at 0 dB reading is ±2% at all frequencies; meter range accuracy is ±5%.

OUTPUT IMPEDANCE: 4, 8, and 16 ohms.

OUTPUT VOLTAGE: 25 volts.

HEADPHONE OUTPUT: Designed for low impedance dynamic phones.

DAMPING FACTOR:

18 at 4 ohms output.
13 at 8 ohms output.
10 at 16 ohms output.

INPUT IMPEDANCE: 200,000 ohms.

INPUT SENSITIVITY:

0.5 volt. Level control provided for higher input voltage.

CONTROLS:

AC Power ON/OFF switch, Speaker ON/OFF switch, Left gain, Right gain, and Meter range switch.

POWER REQUIREMENTS:

117 volts, 50/60 Hz, 75 watts at zero signal output. 430 watts at rated output.

SEMICONDUCTOR COMPLEMENT:

34 silicon transistors.
18 silicon rectifiers and diodes.

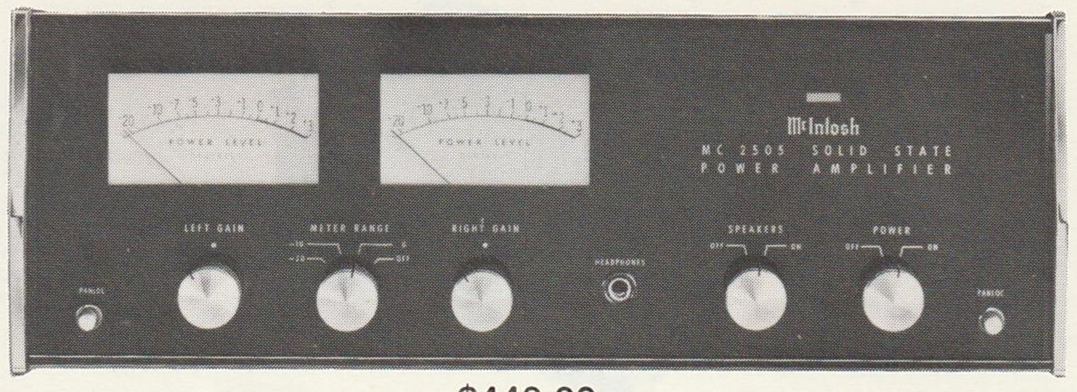
MECHANICAL

SIZE: Front Panel: 16-3/16 inches wide (41.1 cm) by 7-1/8 inches high (18.1 cm). Chassis: 14-7/8 inches wide (37.75 cm) by 6-9/16 inches high (16.65 cm) by 14-1/2 inches deep (36.85 cm), including connectors. Clearance in front of mounting panel including knobs 1-1/2 inches (3.85 cm).

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

MOUNTING: McIntosh developed professional PANLOC.

WEIGHT: 65 pounds (29.48 kg) net, 77 pounds (34.93 kg) in shipping carton.



$449.00

STEREO POWER AMPLIFIER MC 2505

Performance Limits

POWER OUTPUT:

50 Watts continuous, per channel, both channels operating at rated power or less; which is:

14.142 volts RMS across 4 ohms
20.000 volts RMS across 8 ohms
28.284 volts RMS across 16 ohms

HARMONIC DISTORTION:

Will not exceed 0.25% at any power level up to 50 watts power output per channel from 20 Hz to 20,000 Hz, both channels operating. Typical performance is less than 0.1% at rated power. Distortion decreases as output power is reduced.

INTERMODULATION DISTORTION:

Will not exceed 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 20,000 Hz.

FREQUENCY RANGE:

20 Hz to 20,000 Hz +0 -0.25 dB at rated power.

NOISE AND HUM: 90 dB or more below rated output.

OUTPUT POWER MONITOR METER:

Meter is calibrated to read +3 dB when amplifier produces 50 watts continuous or 100 peak watts. Meter range switch is provided to increase meter sensitivity by 10 dB or 20 dB. Special circuit responds to peak value of complex input signal. Calibration accuracy at 0 dB reading is ±2% at all frequencies; meter range accuracy is ±5%.

OUTPUT IMPEDANCE: 4, 8, and 16 ohms.

OUTPUT VOLTAGE: 25 volts.

HEADPHONE OUTPUT: Designed for low impedance dynamic phones.

DAMPING FACTOR:

14 at 4 ohms output.
27 at 8 ohms output.
13 at 16 ohms output.

INPUT IMPEDANCE: 200,000 ohms.

INPUT SENSITIVITY:

0.5 volt. Level control provided for higher input voltage.

CONTROLS:

AC Power ON/OFF switch, Speaker ON/OFF switch, Left gain, Right gain, and Meter range switch.

POWER REQUIREMENTS:

117 volts, 50/60 Hz, 75 watts at zero signal output. 250 watts at rated output.

SEMICONDUCTOR COMPLEMENT:

26 silicon transistors.
27 silicon rectifiers and diodes.

MECHANICAL

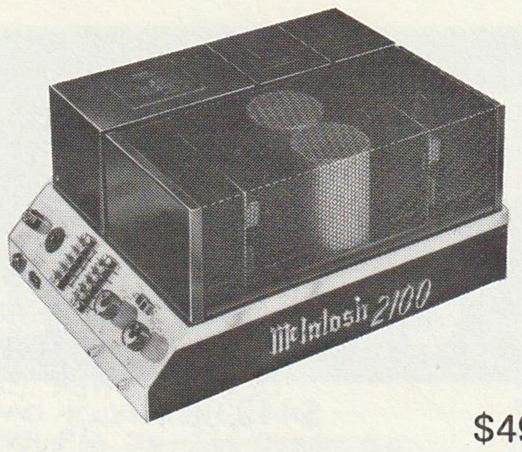
SIZE: Front Panel: 16 inches wide (40.65 cm) by 5-7/16 inches high (13.8 cm); Chassis: 15 inches wide (38.1 cm) by 13 inches deep (33.1 cm), including PANLOC shelf and back panel connectors: Knob Clearance: 1-1/2 inches (3.85 cm) in front of mounting panel.

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

MOUNTING: McIntosh developed professional PANLOC.

WEIGHT: 38 pounds (17.24 kg) net, 53 pounds (24.04 kg) in shipping carton.

Ceretti



$499.00

STEREO POWER AMPLIFIER MC 2100

Performance Limits

POWER OUTPUT:
STEREO: 105 watts continuous, per channel, both channels operating at rated power or less; which is:
20.493 volts RMS across 4 ohms
28.983 volts RMS across 8 ohms
40.987 volts RMS across 16 ohms
MONO: 210 watts continuous; which is:
20.493 volts RMS across 2 ohms
28.983 volts RMS across 4 ohms
40.987 volts RMS across 8 ohms

HARMONIC DISTORTION:
STEREO Will not exceed 0.25% at any power level up to 105 watts power output per channel from 20 Hz to 20,000 Hz both channels operating. Typical performance is less than 0.1% at rated power. Distortion decreases as output power is reduced.
MONO Will not exceed 0.25% at any level up to 210 watts power output from 20 Hz to 20,000 Hz. Typical performance is less than 0.1% at rated power. Distortion decreases as output power is reduced.

INTERMODULATION DISTORTION:
STEREO Will not exceed 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 20,000 Hz.
MONO Will not exceed 0.25% if instantaneous peak power is 420 watts or less for any combination of frequencies 20 Hz to 20,000 Hz.

FREQUENCY RANGE:
20 Hz to 20,000 Hz +0 -0.25 dB at 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.

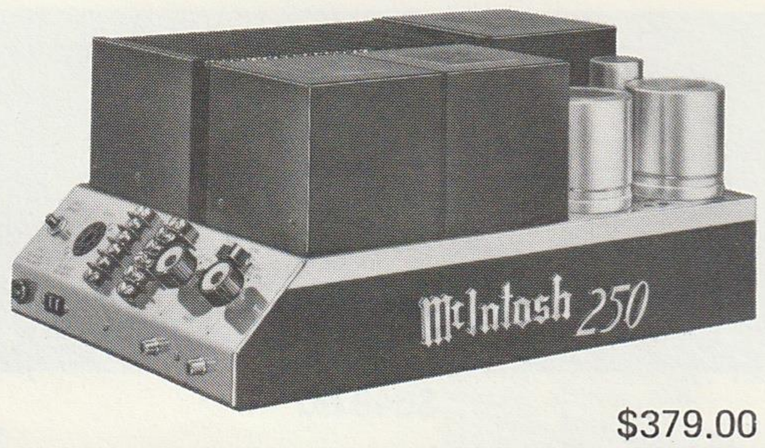
INPUT SENSITIVITY:
0.5 volt. Level control provided for higher input voltage.

POWER REQUIREMENTS:
117 volts 50/60 Hz, 50 watts at zero signal output. 450 watts at rated output.

SEMICONDUCTOR COMPLEMENT:
32 silicon transistors.
14 silicon rectifiers and diodes.

MECHANICAL

SIZE: 7-3/4 inches high (19.7 cm), 11-3/4 inches wide (29.85 cm), 17 inches deep (43.2 cm).
CHASSIS: Chrome and black
WEIGHT: 67 pounds (30.39 kg) net, 62 pounds (28.12 kg) in shipping carton.



$379.00

STEREO POWER AMPLIFIER MC 250

Performance Limits

POWER OUTPUT:
STEREO: 50 watts continuous, per channel, both channels operating at rated power or less; which is:
14.142 volts RMS across 4 ohms
20.000 volts RMS across 8 ohms
28.284 volts RMS across 16 ohms
MONO: 100 watts continuous; which is:
14.142 volts RMS across 2 ohms
20.000 volts RMS across 4 ohms
28.284 volts RMS across 8 ohms

HARMONIC DISTORTION:
STEREO Will not exceed 0.25% at any power level up to 50 watts power output per channel from 20 Hz to 20,000 Hz both channels operating. Typical performance is less than 0.1% at rated power. Distortion decreases as output power is reduced.
MONO Will not exceed 0.25% at any power level up to 100 watts output from 20 Hz to 20,000 Hz. Typical performance is less than 0.1% at rated power. Distortion decreases as output power is reduced.

INTERMODULATION DISTORTION:
STEREO Will not exceed 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 20,000 Hz.
MONO Will not exceed 0.25% if instantaneous peak power is 200 watts or less for any combination of frequencies 20 Hz to 20,000 Hz.

FREQUENCY RANGE:
20 Hz to 20,000 Hz +0 -0.25 dB at 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 volt. Level control provided for higher input voltage.

POWER REQUIREMENTS:
117 volts 50/60 Hz, 50 watts at zero signal output. 250 watts at rated output.

SEMICONDUCTOR COMPLEMENT:
26 silicon transistors.
28 silicon rectifiers and diodes.

MECHANICAL

SIZE: 7-1/16 inches high (17.95 cm), 10-5/8 inches wide (27 cm), 15-5/8 inches deep (39.7 cm).
CHASSIS: Chrome and black.
WEIGHT: 36 pounds (16.33 kg) net, 40 pounds (18.14 kg) in shipping carton.

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$299.00

MONO POWER AMPLIFIER MC 100

Performance Limits

POWER OUTPUT:
100 watts continuous, which is:
20.000 volts RMS across 4 ohms
28.284 volts RMS across 8 ohms
40.00 volts RMS across 16 ohms

HARMONIC DISTORTION:
Will not exceed 0.25% at any power level up to 100 watts power output from 20 Hz to 20,000 Hz. Typical performance is less than 0.1% at rated power. Distortion decreases as output power is reduced.

INTERMODULATION DISTORTION:
Will not exceed 0.20% if instantaneous peak power output is 200 watts or less for any combination of frequencies 20 Hz to 20,000 Hz.

FREQUENCY RANGE:
20 Hz to 20,000 Hz +0 -0.25 dB at rated power.
15 Hz to 60,000 Hz +0 -0.5 dB at rated power.
10 Hz to 100,000 Hz +0 -3.0 dB at one-half of rated power.

NOISE AND HUM:
90 dB below rated output.

OUTPUT IMPEDANCE:
4, 8, and 16 ohms.

OUTPUT VOLTAGE:
25 volts.

DAMPING FACTOR:
29 at 4 ohms output.
16 at 8 ohms output.
12 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, 50/60 Hz, 40 watts at zero signal output, 230 watts at rated output.

SEMICONDUCTOR COMPLEMENT:
16 silicon transistors.
10 silicon rectifiers and diodes.

MECHANICAL

SIZE:
6-1/2 inches high (16.55 cm), 9-1/4 inches wide (23.5 cm), 14-3/4 inches deep (37.45 cm).

CHASSIS: Chrome and black.

WEIGHT:
32 pounds (14.51 kg) net.
38 pounds (17.24 kg) in shipping carton.



$199.00

MONO POWER AMPLIFIER MC 50

Performance Limits

POWER OUTPUT:
50 watts continuous, which is:
14.142 volts RMS across 4 ohms
20.000 volts RMS across 8 ohms
28.284 volts RMS across 16 ohms

HARMONIC DISTORTION:
Will not exceed 0.25% at any power level up to 50 watts power output from 20 Hz to 20,000 Hz. Typical performance is less than 0.1% at rated power. Distortion decreases as output power is reduced.

INTERMODULATION DISTORTION:
Will not exceed 0.25% if instantaneous peak power output is 100 watts or less for any combination of frequencies 20 Hz to 20,000 Hz.

FREQUENCY RANGE:
20 Hz to 20,000 Hz +) -0.25 dB at rated power.
15 Hz to 50,000 Hz +0 -0.5 dB at rated power.
10 Hz to 100,000 Hz +0 -3.0 dB at one-half the rated power.

NOISE AND HUM:
90 dB or more below rated output.

OUTPUT IMPEDANCE:
4, 8, or 16 ohms.

OUTPUT VOLTAGE:
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.

POWER REQUIREMENTS:
117 volts, 50/60 Hz, 15 watts at zero signal output, 110 watts at rated output.

SEMICONDUCTOR COMPLEMENT:
12 silicon transistors.
12 silicon rectifiers and diodes.

MECHANICAL

SIZE:
5-1/2 inches high (13.95 cm), 8 inches wide (20.35 cm), 12-1/2 inches deep (31.75 cm).

CHASSIS: Chrome and black.

WEIGHT:
20 pounds (9.07 kg) net.
24 pounds (10.89 kg) in shipping carton.

Ceretti



$449.00 Cabinet $29.00

MA 5100 *"....offers the kind of performance once associated only with separate preamps and power amps"*

The MA 5100 delivers McIntosh performance and quality in a combination solid state preamplifier and solid state power amplifier. The stereo preamplifier has the lowest hum and noise of any combination unit. The square wave rise time is 3 microseconds.

With the MA 5100, music is reproduced accurately. There is no fuzziness. At full power output, distortion is less than 0.25% 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 has instant response to the amplifiers needs. Recovery from the loudest musical passage is instantaneous. 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.

Performance Limits

POWER OUTPUT:
45 watts continuous, per channel, both channels operating at rated power or less; which is:
13.220 volts RMS across 4 ohms
18.974 volts RMS across 8 ohms
or 30 watts continuous, per channel, both channels operating at rated power or less; which is:
21.909 volts RMS across 16 ohms

HARMONIC DISTORTION:
Will not exceed 0.25% at any power level to rated power output per channel from 20 Hz to 20,000 Hz, both channels operating. Typical performance is less than 0.1% at rated power. Distortion decreases as output power is reduced.

INTERMODULATION DISTORTION:
Will not exceed 0.25% if instantaneous peak power output is twice rated power output or less per channel with both channels operating for any combination of frequencies 20 Hz to 20,000 Hz.

FREQUENCY RESPONSE:
20 Hz to 20,000 Hz +0 -0.5 dB at rated power.
8 Hz to 50,000 Hz +0 -3.0 dB at one-half of rated power.

HUM AND NOISE:
High Level Inputs: 75 dB below rated output.
Low Level Inputs: 70 dB below 10 mV input; equivalent to less than 3 microvolts at input.

OUTPUT IMPEDANCE: 4, 8, or 16 ohms.

DAMPING FACTOR: 50 at 4 ohms; 100 at 8 ohms; 200 at 16 ohms.

INPUT IMPEDANCE AND SENSITIVITY:
High Level Inputs: 0.3 volts, 250,000 ohms.
Phono: 2 millivolt at 47,000 ohms (1,000 Hz).
Tape Head: 2 millivolts at 500,000 ohms (500 Hz).

TAPE OUTPUT:
0.3 volts from low level inputs, to operate into 47,000 ohms or more.

LEFT PLUS RIGHT OUTPUT:
Adjustable 0 to 6 volts from generator impedance of 5,000 ohms.

BASS AND TREBLE CONTROLS:
Concentric controls; friction clutch for independent adjustment of each channel.

HF FILTER: Flat, or 5,000 Hz cutoff

LF FILTER: Flat, or 50 Hz cutoff

SEMICONDUCTOR COMPLEMENT:
23 Silicon Rectifiers and Diodes
34 Silicon Transistors
2 Silicon Bilateral Switches
2 TRIAC

POWER REQUIREMENTS:
117 volts 50/60 Hz, 70 watts at zero signal output, 200 watts at rated output.

FACILITIES AND FEATURES

TAPE MONITOR:
NORMAL or Tape MONITOR with indicator lamp in MONITOR position.

PHASE: Normal (0°) or reverse (180°)

SPEAKER:
Speakers ON or OFF for headphone listening, with indicator lamp in SPEAKER OFF position.

HEADPHONE JACKS:
Two, for two pairs of low impedance dynamic stereo headphones.

MECHANICAL

SIZE: Front panel: 16 inches wide (40.65 cm) by 5-7/16 inches high (13.8 cm); Chassis: 15 inches wide (38.1 cm) by 4-1/2 inches high (11.45 cm) by 14-1/2 inches deep (36.85 cm), including connectors. Clearance in front of mounting panel including knobs, 1-1/2 inches (3.85 cm).

FINISH: Front panel gold anodized and black with special McIntosh gold/Teal panel nomenclature illuminations.

CHASSIS: Chrome and black.

WEIGHT: 25 pounds (11.34 kg) net, 41 pounds (18.60 kg) in shipping carton.

Ceretti

AREA CODE 607 723-3512

McINTOSH LABORATORY INC.
2 CHAMBERS STREET
BINGHAMTON, N. Y. 13903

A WORD ABOUT MAGAZINES, VALUE AND McINTOSH

In a recent directory of components the headline for the amplifier section reads, "you can judge quality simply by comparing specifications." There can be little doubt that such a statement is intended well, but two circumstances make it misleading to the consumer.

In the first place, catalogs of specifications always leave out a major value factor - reliability. By letting consumers think that performance specifications describe the total value or quality of an amplifier, magazines, in our opinion do a disservice to the consumer.

The next problem is an industry shortcoming. Amplifier specifications embody a measure of poetic license that makes meaningful comparison by the consumer very difficult if not frankly impossible. When 200 watts of advertised power reduces to 20 r.m.s. watts per channel, I think the word **exaggeration** is applicable.

McIntosh conducts about 200 clinics a year in retail locations. We measure about 15,000 amplifiers and preamplifiers per year. After eight years we've accumulated an extensive appraisal of our own equipment and, of course, of many other equipments. This first hand encounter with consumers' equipment leaves us a little appalled at the credibility gap generated by the home entertainment industry. We have no desire to be part of this problem - hence our conservative approach to listing McIntosh specifications, and our absence from specification catalogs.

You may be interested in one further indication of our concern for our consumer clientele. Companies our size usually spend five to seven per cent of their sales dollar on paid magazine space. McIntosh for the past several years has spent less than one-half of one per cent of our sales dollar on magazine advertising. We channel advertising dollars into our clinic, free service and engineering programs instead. Then we rely on our clientele passing the word from person to person based on the individual's encounter with real value, real reliability and real specifications. Since advertising expenses are paid by each customer in the final analysis, it seems to us to be much fairer to invest his money in tangible values rather than elaborate spreads in magazines. Of course, this position while of immense benefit to the consumer can hardly be enthusiastically supported by the editors and publishers of high fidelity magazines.

Ceretti

McIntosh

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2 CHAMBERS ST., BINGHAMTON, N. Y. 13903

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