

McIntosh

Engineering Laboratory Inc.

910 KING STREET
CABLE "MCLAB"

SILVER SPRING, MD.
JUNIPER 7-9200

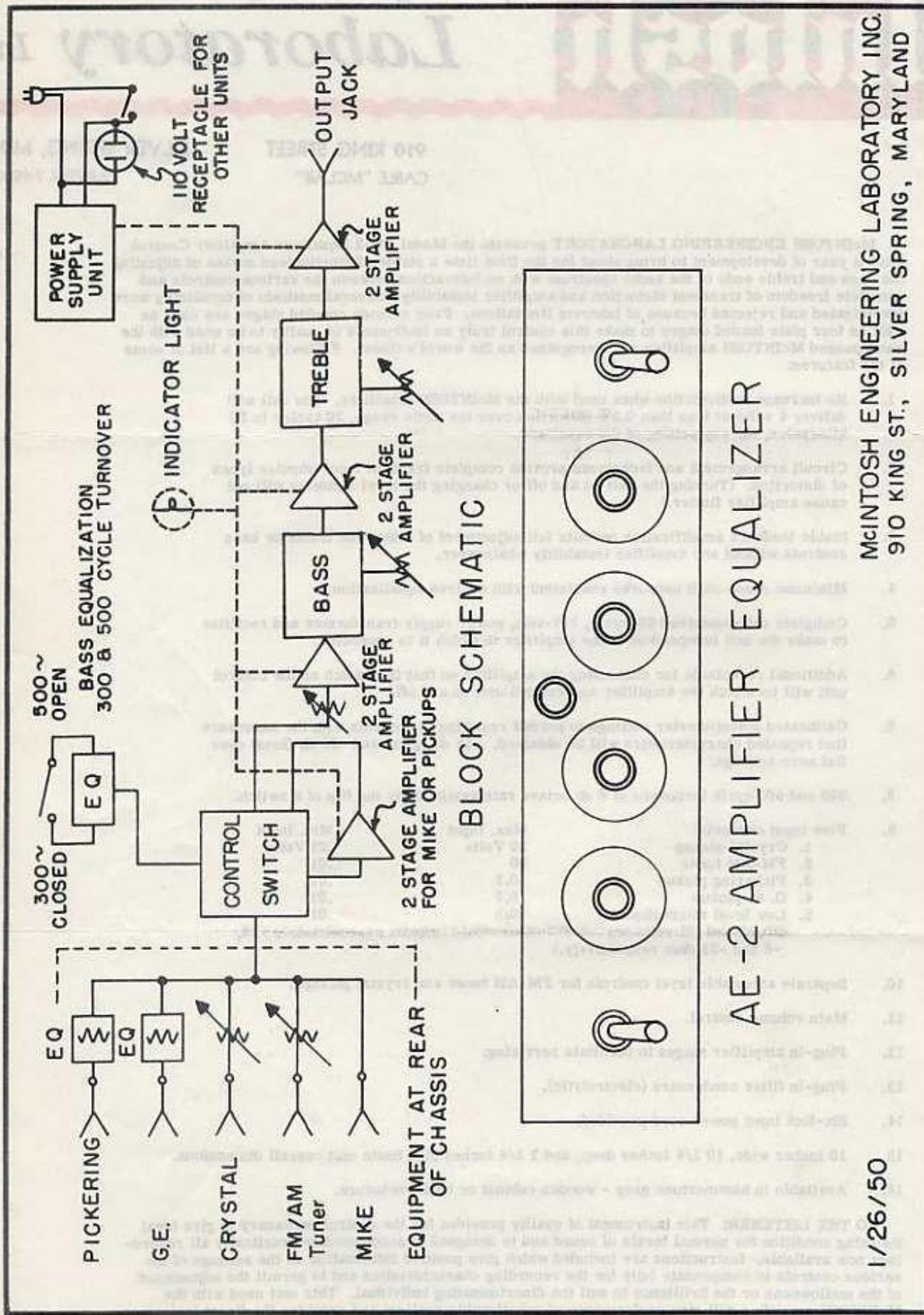
McINTOSH ENGINEERING LABORATORY presents the Model AE-2 Equalizer Amplifier Control after a year of development to bring about for the first time a stable, distortionless means of adjusting the bass and treble ends of the audio spectrum with no interaction between the various controls and complete freedom of transient distortion and amplifier instability. Several methods of equalizing were investigated and rejected because of inherent limitations. Four cathode coupled stages are used as well as four plate loaded stages to make this control truly an instrument of quality to be used with the unsurpassed McINTOSH amplifier now recognized as the world's finest. Following are a list of some of the features:

1. No increase in distortion when used with the McINTOSH amplifier. The unit will deliver 4 volts at less than 0.3% distortion over the audio range, 20 cycles to 20 kilocycles, for any setting of the equalizer.
2. Circuit arrangement and techniques provide complete freedom from impulse types of distortion. (Turning the unit on and off or changing the level suddenly will not cause amplifier flutter.)
3. Stable feedback amplification permits full adjustment of either the treble or bass controls without any amplifier instability whatsoever.
4. Minimum phase shift networks consistent with desired equalization.
5. Complete self-contained 60-cycle, 117-volt, power supply transformer and rectifier to make the unit independent of the amplifier to which it is connected.
6. Additional receptacle for connecting the amplifier so that the switch on the control unit will turn both the amplifier and control unit on and off.
7. Calibrated potentiometer settings to permit resetting of controls with the assurance that repeated characteristics will be obtained. +15 db (gain) and -20 db (loss) over flat zero settings.
8. 300 and 500 cycle turnovers at 6 db octave rate available by the flip of a switch.
9. Five input channels:

	Max. Input	Min. Input
1. Crystal pickup	20 Volts	.01 Volts
2. FM-AM tuner	20	.01
3. Pickering pickup	0.3	.01
4. G. E. pickup	0.3	.01
5. Low level microphone	0.3	.01

(20, .3 and .01 volts across 600 ohms would indicate approximately +28, -8 and -38 dbm respectively.)
10. Separate adjustable level controls for FM-AM tuner and crystal pickups.
11. Main volume control.
12. Plug-in amplifier stages to facilitate servicing.
13. Plug-in filter condensers (electrolytic).
14. Six-foot input power cord provided.
15. 10 inches wide, 10 1/4 inches deep, and 2 3/4 inches high basic unit overall dimensions.
16. Available in hammertone grey - wooden cabinet or book enclosure.

TO THE LISTENER: This instrument of quality provides for the control necessary to give ideal listening condition for normal levels of sound and is designed to accommodate practically all recordings now available. Instructions are included which give positive information on the settings of the various controls to compensate fully for the recording characteristics and to permit the adjustment of the mellowness or the brilliance to suit the discriminating individual. This unit used with the McINTOSH amplifier will give performance of unbelievable realism and provides the finest instrumentality for music and sound reproduction that electronic engineers have been able to devise up to this time.



McINTOSH ENGINEERING LABORATORY INC.
910 KING ST., SILVER SPRING, MARYLAND

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