

McMartin

"the full choice line"



B-800 shown

audio consoles

- | | |
|---------------------|------------------------------------|
| B-800 series | monaural
stereo
dual channel |
| B-500 series | monaural
stereo
dual channel |
| ACCU-FIVE | monaural
rack mount |



TBM-3700 shown

fm products

- | | |
|------------------|------------------|
| TBM-1000b | relay receiver |
| TBM-2000b | sca |
| TBM-2200a | stereo |
| TBM-2500c | rf amplifier |
| TBM-3000a | frequency |
| TBM-3500a | modulation |
| TBM-3700 | freq./modulation |



TBM-8500 shown

am-tv products

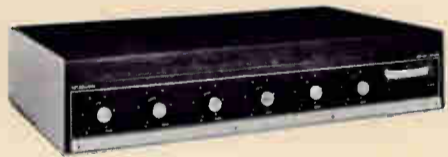
- | | |
|-----------------|-----------------|
| TBM-5000 | am frequency |
| TBM-5500 | am modulation |
| TBM-8000 | tv frequency |
| TBM-8500 | tv modulation |
| TBM-8800 | am-rf amplifier |



TR-E2 shown

sca products

- | | |
|---------------|------------------------------------|
| TR-55 | professional tuner |
| TR-66b | professional
receiver/amplifier |
| TR-E2 | educational receiver |



MS-200 shown

amplifiers/mixers

- | | |
|----------------------|--|
| MS-10, 25, 75 | amplifiers |
| MS-200 | mixer |
| LT-series | a complete line
of power amplifiers
from 10 to 350 watts |

• 805 NORTH THIRTEENTH STREET, OMAHA, NEBRASKA • 68102 • (402) 342-2753 • TELEX 048-485 •

GENTLEMEN: Please send me the following information:

- | | | | |
|----------------|--------------------------|-------------------------|--------------------------|
| AUDIO CONSOLES | <input type="checkbox"/> | RELAY RECEIVERS | <input type="checkbox"/> |
| FM MONITORS | <input type="checkbox"/> | SCA/MULTIPLEX EQUIPMENT | <input type="checkbox"/> |
| AM MONITORS | <input type="checkbox"/> | AMPLIFIERS/MIXERS | <input type="checkbox"/> |
| TV MONITORS | <input type="checkbox"/> | OTHER | <input type="checkbox"/> |

Also, I require an instruction manual for _____

COMMENTS: _____

NAME: _____ DATE: _____
 COMPANY/STATION: _____ POSITION: _____
 ADDRESS: _____ CITY: _____ STATE: _____
 PHONE: _____ ZIP: _____

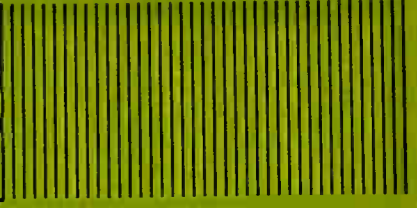
Thank you for your interest in McMartin products. We have enclosed the descriptive literature and sales representative list, which you have requested. If you need further information regarding our "full choice line", please complete the postage-paid card on the back or contact the Director of Sales by phone, (402) 342-2753 or Telex 048-485.

BUSINESS REPLY MAIL | FIRST CLASS PERMIT NO. 2293, OMAHA, NEBRASKA

Postage will be paid by:

McMartin Industries Inc.
605 North Thirteenth Street
Omaha, Nebraska 68102

no
postage stamp
necessary
if mailed in the
United States



DIGITAL AM FREQUENCY MONITOR

TBM-8000



**ILLUMINATED DIGITAL READOUT
10 AND 20 Hz DEVIATION INDICATORS**

**FCC TYPE APPROVAL #3-182
FRONT ACCESS TO PLUG-IN CARDS**

DESCRIPTION

The McMartin TBM-8000 AM Frequency Monitor is designed to provide a visual, digital readout of frequency deviation of the operating carrier of standard AM broadcast transmitters in the range of 540 to 1600 kiloHertz.

The readout is by means of seven-segment numeric display modules which afford excellent readability even in high ambient light environments. Since both polarity and the frequency deviation are displayed directly, human error is virtually eliminated.

Three modes of operation are selectable by push-button switching. The normal operating mode is with the "Modulated Carrier" button depressed. This mode of operation uses a 10-second gate time. Readings over the deviation range from 0 to ± 39 Hertz are displayed.

With the "Unmodulated Carrier" button depressed, a 1-second gate time is employed. This position is

intended primarily for transmitter frequency adjustment.

A "Wide Range" mode is provided. The sampling rate is 1/10 second and increases the display range to ± 390 Hz. This position is useful for correcting wide deviations of the carrier frequency. Deviations beyond 390 Hz will blank the display; however, the polarity lamp will continue to operate with deviations up to ± 1 kiloHertz from the assigned frequency.

Protection against large deviations is afforded by indicator lamps which operate when frequency excursions in excess of 10 Hz and 20 Hz occur. Relay contact closures are available for the connection of external alarms when ± 20 Hertz has been exceeded.

A self-adjusting RF attenuator accommodates RF input levels up to 5 watts. A front panel warning indicator is provided to detect insufficient RF input.

Optional plug-in cards are available for: (1) driving automatic logging equipment with BCD logic; or (2) analog operation of remote meters.

SPECIFICATIONS

OPERATING RANGE Any 10 kiloHertz increment,
540 to 1600 kHz

INPUT LEVEL 0.05 to 5.0 watts (max)

INPUT IMPEDANCE 50 ohms (UHF connector)

FREQUENCY STABILITY Better than ± 2 parts per
million (PPM). 0-55° C.

AGING RATE Less than 2 PPM/mo.

AM REJECTION Will reject a minimum of 95%
modulation and typically will reject 98%

DISPLAY 0 to ± 39 Hertz in 1.0 Hz increments
(Modulated and Unmodulated Carrier
positions). 0 to ± 390 Hertz in 10.0 Hz
increments (Wide Range position).

ALARM INDICATORS 1. Low RF input 2. Greater
than 10 Hz deviation. 3. Greater than 20Hz
deviation (contact closures available when
 ± 20 Hz has been exceeded).

POWER REQUIREMENTS 120, ± 10 Vac or 240,
 ± 20 Vac; 50/60 Hz. 20 watts

DIMENSIONS (W) EIA Standard 19" Rack;
(H) 3½"; (D) 9½"

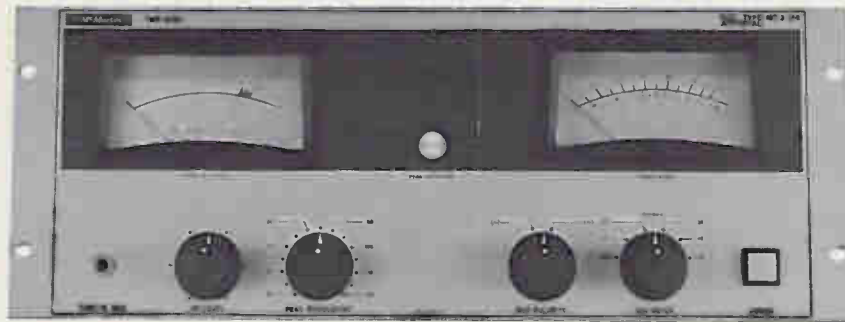
WEIGHT 14 pounds

FINISH Beige with Wood Grain Trim

OPTIONAL ACCESSORIES

RM-80-T/R Remote Metering Kit, consisting of:
RM-80-T, Plug-in BCD/analog conversion
card; RM-80-R, Remote Rack Panel
with meter and calibration control.

RM-81-T Plug-in parallel BCD output (for
driving automatic logging equipment).



FCC Type Approval #3-188

Silicon Solid State

Direct-Reading AM S/N Ratio

Carrier-Failure Alarm

Modular Plug-In Cards

Remote Metering Capability

DESCRIPTION

The McMartin Model TBM-8500 is designed to monitor the percentage of modulation of AM broadcast transmitters operating in the 540 to 1600 kiloHertz range.

The TBM-8500 employs the latest techniques in silicon, solid state circuit design. All devices are conservatively rated. Critical circuitry is placed on plug-in, Grade G-10 glass epoxy base, etched circuit boards.

The modulation percentage meter functions as a semi-peak reading voltmeter. When used for direct measurement of AM signal-to-noise ratio, the meter is appropriately damped to improve readability in the presence of noise.

A polarity switch permits measurement of either positive or negative modulation peaks by the meter and the peak flasher. The peak flasher lamp thresh-

old is adjustable for modulation levels from 20 to 120 per cent for positive peaks and 0 to 100 per cent for negative peaks.

RF input level and carrier shift are continuously monitored.

Rear chassis termination provides a balanced 600-ohm audio output signal, a high impedance audio output for external distortion measurements, relay contact closures for actuation of carrier-failure alarm devices and connections for remote peak flasher and modulation metering.

An optional remote metering kit, Model RM-85T/R, consists of the RM-85T plug-in remote meter amplifier card and the RM-85R, 5 1/4 inch rack-mount remote meter panel.

The TBM-8500 is attractively finished in the new McMartin beige and wood grain motif.

SPECIFICATIONS

RF Frequency Range 540 to 1,600 kiloHertz

RF INPUT

Sensitivity 5 to 10 volts rms

Impedance 50 ohms unbalanced

OUTPUTS

A. Audio Output for Monitoring Circuits

Source Impedance 600 ohms balanced

Level +4 dBm at 100 per cent modulation at 1 kHz

Frequency response ± 0.5 dB, 30 to 15,000 Hertz

Distortion 0.25 per cent maximum, 30 to 15,000 Hertz

B. Audio Output for distortion measurements

Impedance 10 K-ohms minimum

Level 6 to 7 volts rms at 100 per cent modulation at 1 kHz

Frequency response 30 to 15,000 Hertz, ± 0.5 dB

Distortion 0.25 per cent maximum, 30 to 15,000 Hertz

C. Headphone Output

Impedance 22 K-ohms

Level 2 volts rms

Frequency response 30 to 15,000 Hertz, ± 0.5 dB

PEAK FLASHER

Accuracy ± 2 per cent of full scale, 30 to 15,000 Hertz

Range Continuously adjustable 0 to 120 per cent positive peaks; 0 to 100 negative peaks

MODULATION METER (Ballistics meet FCC requirements)

Accuracy +2 per cent of full scale at 1,000 Hertz modulating frequency

Frequency response ± 0.5 dB, 30 to 15,000 Hertz

Scale 0 to 100 per cent negative peaks, 0 to 110 per cent positive peaks, 0 to 120 per cent full scale.

Remote Metering Terminations provided for remote peak flasher; and (with RM85-T/R kit) remote modulation meter

Power Requirements 105 to 125 volts AC, 50/60 Hertz

Fuse 0.5 amps

Ambient Temperature -10° C to 55° C

Mechanical dimensions Standard rack panel 19" w x 7" h x 11" d

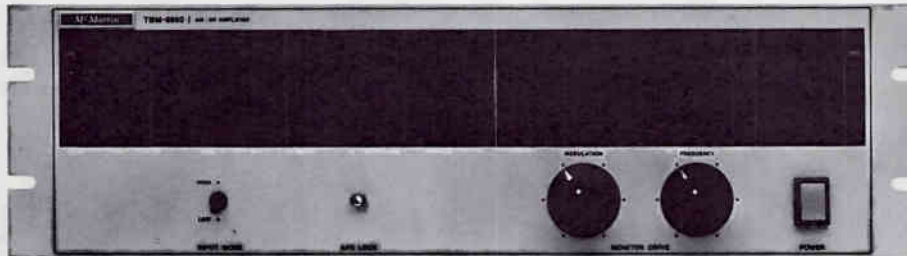
Weight 22 $\frac{1}{2}$ pounds

Finish McMartin beige and wood grain trim

Optional accessory RM85-T/R remote meter kit

AM RF AMPLIFIER

TBM-8800



EXCELLENT SELECTIVITY

AUTOMATIC GAIN CONTROL

REMOTE/LOCAL POWER LEVEL SWITCHING

SEPARATE MODULATION/FREQUENCY MONITOR OUTPUTS

1.0 MILLIVOLT SENSITIVITY

CARRIER FAILURE ALARM

DESCRIPTION

The McMartin TBM-8800 AM RF amplifier, utilizing integrated circuits, MOSFET and the latest silicon RF power devices, is designed for amplification of "off-air" AM broadcast signals to levels required for driving FCC Type Approved AM modulation and frequency monitors located at a remote control point.

The TBM-8800 employs the superheterodyne principle for maximum selectivity while retaining linear bandwidth and eliminating regeneration. IF selectivity is obtained by use of a ceramic ladder filter.

Sum-and-difference double conversion is used and no frequency error is introduced by the TBM-8800. The frequency of the local offset oscillator is maintained by AFC lock techniques.

Separate class AB broadband power amplifiers are employed for modulation monitor and frequency monitor drive with independent control of the output levels. Limiting in the frequency monitor drive amplifier accommodates up to 99% negative modulation peaks.

Automatic gain control is standard. A 20 dB variation in input level produces less than a 1 dB output variation. The AGC action may be defeated for manual operation.

Front panel switching is provided for power level changes. This switching may also be accomplished remotely.

Carrier failure terminations are provided for connection of customer-supplied alerting devices.

SPECIFICATIONS

FREQUENCY RANGE:..... 540-1600 kHz

INPUT SENSITIVITY: 1.0 millivolts (minimum)

INPUT IMPEDANCE: 50 ohms, unbalanced

SELECTIVITY: ± 13 kHz @ 3 dB points
 ± 30 kHz @ 70 dB points

S/N RATIO: 45 dB or greater (with 5.0 millivolt input signal)

AGC

DYNAMIC RANGE: 20 dB variation in input level produces less than 1 dB output change

ENVELOPE

DISTORTION: 0.5% (maximum)

OUTPUTS

(Adjustable)

Modulation monitor:

..... 2.0 watts 100% mod., 50 ohms

Frequency monitor:

..... 6 volts p-p square wave, 50 ohms

TEMPERATURE

RANGE: 0° C - 50° C

REAR CHASSIS

TERMINATIONS: (a) Oscilloscope output—10K ohms

(b) ... Carrier failure alarm contacts

(c) ... Remote power level switching

POWER REQUIRED: 117 VAC, 50/60 Hz

DIMENSIONS: (w) .. 19" (EIA standard rack mount)

(h) 5¼"

(d) 10" overall

WEIGHT: 9 lbs.

FINISH: McMartin Beige with woodgrain trim



MC MARTIN INDUSTRIES, INC.
CHANGES TO BROADCAST PRICE LIST

ADD TO PAGE B-72-AC1:

OPTIONAL STEP ATTENUATORS FOR FIVE (5) MIXERS ON B-500 SERIES CONSOLES:

B-501 AND B-503 (MONAURAL)	ADD: \$225.00
B-502 (STEREO)	ADD: \$350.00

ALLOW 30 TO 45 DAYS DELIVERY.

ADD TO PAGE B-72-AC3:

B-802-S3	B-802 STEREO CONSOLE PLUS FEATURES OF S1 AND S2 MODELS.	\$3,850.00
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ALLOW 30 TO 45 DAYS DELIVERY.

DELETE FROM PAGE B-72-M1:

TBM-0380 (REPLACED BY STE-1 IN TBM-1000B)

TBM-3500A (REPLACED BY TBM-3780 OR TBM-4500A)

ADD TO PAGE B-72-M3:

TBM-8800	AM-RF AMPLIFIER WITH AGC (AVAILABLE MARCH 1973)	\$485.00
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QUICK REFERENCE TABLE — MC MARTIN PROFESSIONAL AUDIO CONSOLES

<u>FEATURE</u>	<u>ACCU-FIVE</u>	<u>B-500 SERIES</u>	<u>B-800 SERIES</u>
MIXER CHANNELS	5	5	8
INPUTS	13	10	27
MONAURAL CHANNELS	PROGRAM	AUDITION/PROGRAM	AUDITION/PROGRAM
DUAL MONAURAL CHANNELS	NOT AVAILABLE	PROGRAM A/PROGRAM B	PROGRAM A/PROGRAM B
STEREO CHANNELS	NOT AVAILABLE	AUDITION/PROGRAM	AUDITION/PROGRAM
STEREO/MONAURAL CHANNELS	NOT AVAILABLE	NOT AVAILABLE	AUDITION/PROGRAM/ MONAURAL
DUAL STEREO CHANNELS	NOT AVAILABLE	NOT AVAILABLE	PROGRAM/PROGRAM
DUAL STEREO/MONAURAL	NOT AVAILABLE	NOT AVAILABLE	PROGRAM/PROGRAM/ MONAURAL
CUE AMPLIFIER/SPEAKER	PROVIDED	PROVIDED	PROVIDED
CUE INPUT	ALL CHANNELS	ALL CHANNELS	ALL CHANNELS
PROGRAM FREQUENCY	± 1.0 DB 30-15,000	± 0.5 DB 30-15,000	± 0.5 DB 20-20,000
PROGRAM S/N	60 DB BELOW ± 18	72 DB BELOW ± 18	74 DB BELOW ± 18
GAIN	100 ± 2 DBM	100 ± 2 DBM	102 ± 2 DBM
OUTPUT LEVEL	± 8 FOR OVU; ± 18 MAXIMUM	± 8 FOR OVU; ± 18 MAXIMUM	± 8 FOR OVU; ± 24 DBM MAXIMUM
CROSSTALK	BELOW SYSTEM NOISE	BELOW SYSTEM NOISE	BELOW SYSTEM NOISE
MONITOR CHANNEL FREQUENCY	± 1.5 DB 50-15,000	± 1.0 DB 30-15,000	± 0.5 DB 20-20,000
MONITOR AUDIO	4 WATTS RMS	4 WATTS RMS	8 WATTS RMS
MONITOR NOISE	50 DB BELOW 4 WATTS	60 DB BELOW 4 WATTS	70 DB BELOW 8 WATTS
INPUT LEVELS	LOW -60 DBM NOMINAL -35 DBM MAXIMUM	-60 DBM NOMINAL -34 DBM MAXIMUM	-60 DBM NOMINAL -30 DBM MAXIMUM
	HIGH -20 DBM NOMINAL ± 5 DBM MAXIMUM	-15 NOMINAL ± 10 DBM MAXIMUM	-15 DBM NOMINAL ± 10 DBM MAXIMUM
ATTENUATORS	MOLDED COMPOSITION	MOLDED COMPOSITION; STEP TYPE OPTIONAL	STEP TYPE
TALK BACK AMPLIFIER	PROVIDED	NOT AVAILABLE	PROVIDED
PRINTED CIRCUIT BOARDS	FIX WIRED	PROGRAM/AUDITION CHAN- NELS PLUG-IN; MONITOR AND CUE AMPS FIX WIRED	ALL PLUG-IN
STANDARD CONFIGURATION	1-MIC (ONE OF 2) 2-MIC (ONE OF 2) 3-HI/LO (ONE OF 2) 4-HI/LO (ONE OF 2) 5-HI/LO (ONE OF 5) 6- 7- 8-	MIC (ONE OF 2) HI BAL (ONE OF 2) HI BAL (ONE OF 2) HI BAL (ONE OF 2) HI BAL (ONE OF 2)	MIC (ONE OF 3) MIC (ONE OF 3) MIC (ONE OF 3) HI UNBAL (ONE OF 3) HI UNBAL (ONE OF 3) HI UNBAL (ONE OF 3) HI UNBAL (ONE OF 3) HI UNBAL (ONE OF 3) HI BAL (ONE OF 6)
	(ALL INPUTS ON B-500 AND B-800 CONSOLES ARE PLUG-IN AND INTER- CHANGEABLE -- ANY MIXER MAY BE LOW OR HIGH LEVEL BY SELECTION OF PROPER PLUG-IN CARD -- SEE CONSOLE PRICE LIST.)		
INPUT TERMINATION	1 AND 2 CANNON 3 - 5 SCREW TERMINALS	ALL SCREW TERMINALS	ALL SOLDER TYPE
OUTPUT TERMINATION	SCREW TERMINALS	SCREW TERMINALS	ALL SOLDER TYPE
MUTING	ONE RELAY PROVIDED	ONE RELAY PROVIDED; ONE OPTIONAL	FOUR RELAYS PRO- VIDED
POWER SUPPLY	120/220VAC, 50-60 HZ	120/220VAC, 50-60 HZ	120/220VAC, 50-60 HZ
SIZE	19"W, 3.50"H, 10"D	27"W, 7"H, 16"D	44.75"W, 9.75"H, 18.25"D

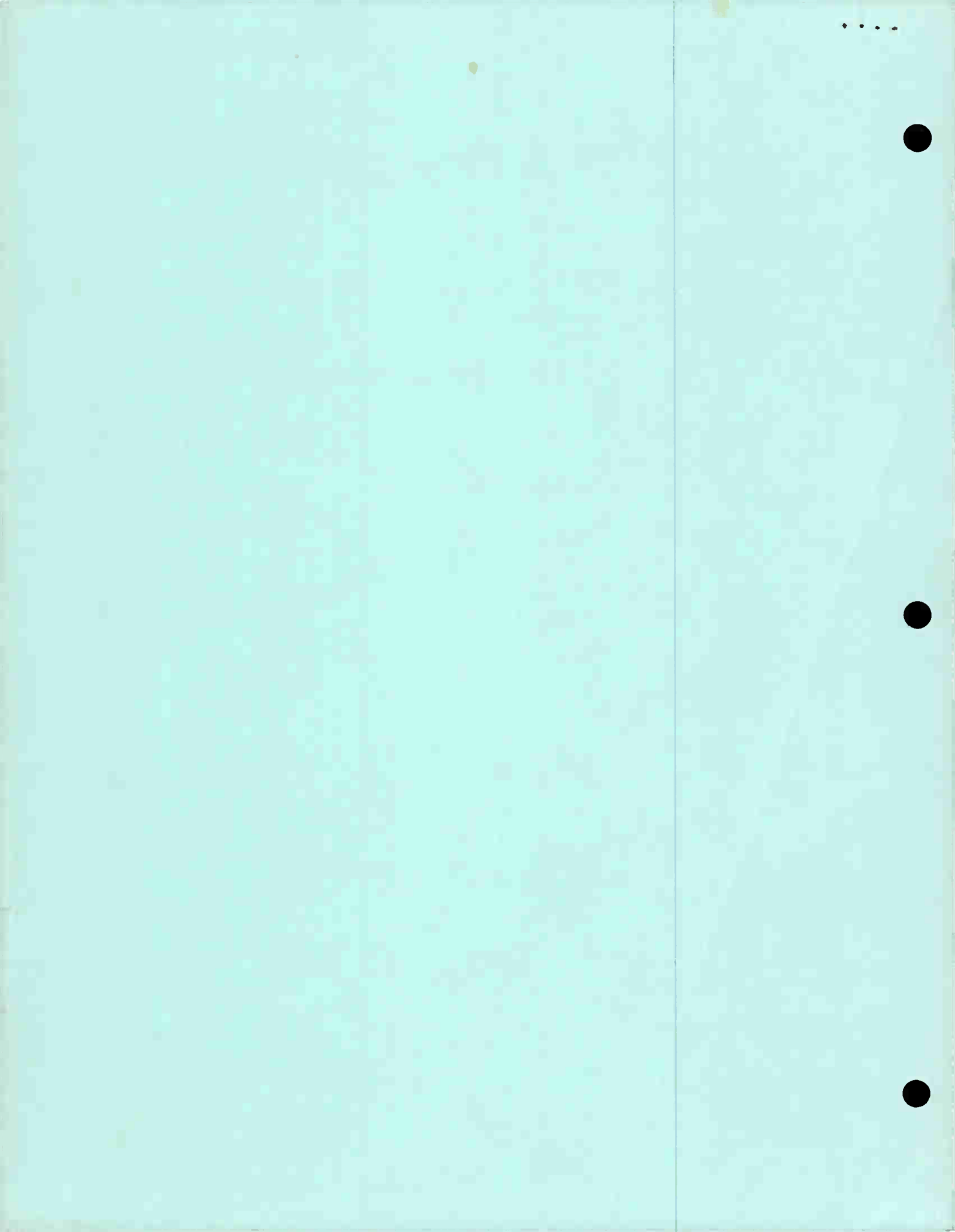
AM EQUIPMENT

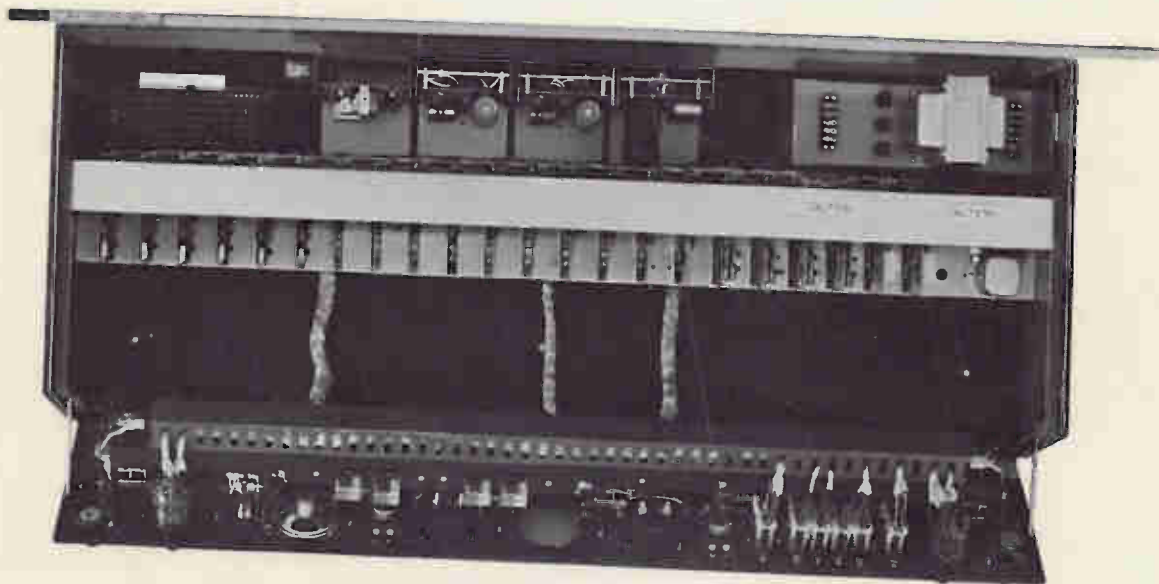
<u>MODEL</u>	<u>DESCRIPTION</u>	<u>PRICE</u>
TBM-8000	AM DIGITAL FREQUENCY MONITOR	\$ 975.00
RM-80-T/R	REMOTE METERING KIT FOR TBM-8000 (ANALOG METER READOUT)	150.00
RM-80-T	DIGITAL-TO-ANALOG CONVERTER CARD ONLY	85.00
RM-81-T	PARALLEL DIGITAL OUTPUT CARD (FOR AUTO LOGGING EQUIPMENT)	65.00
TBM-8500	AM MODULATION MONITOR	850.00
RM-85-T/R	REMOTE METERING KIT FOR TBM-8500	105.00
RM-85-T	REMOTE METER AMPLIFIER PLUG-IN CARD ONLY	40.00

VHF-TV EQUIPMENT

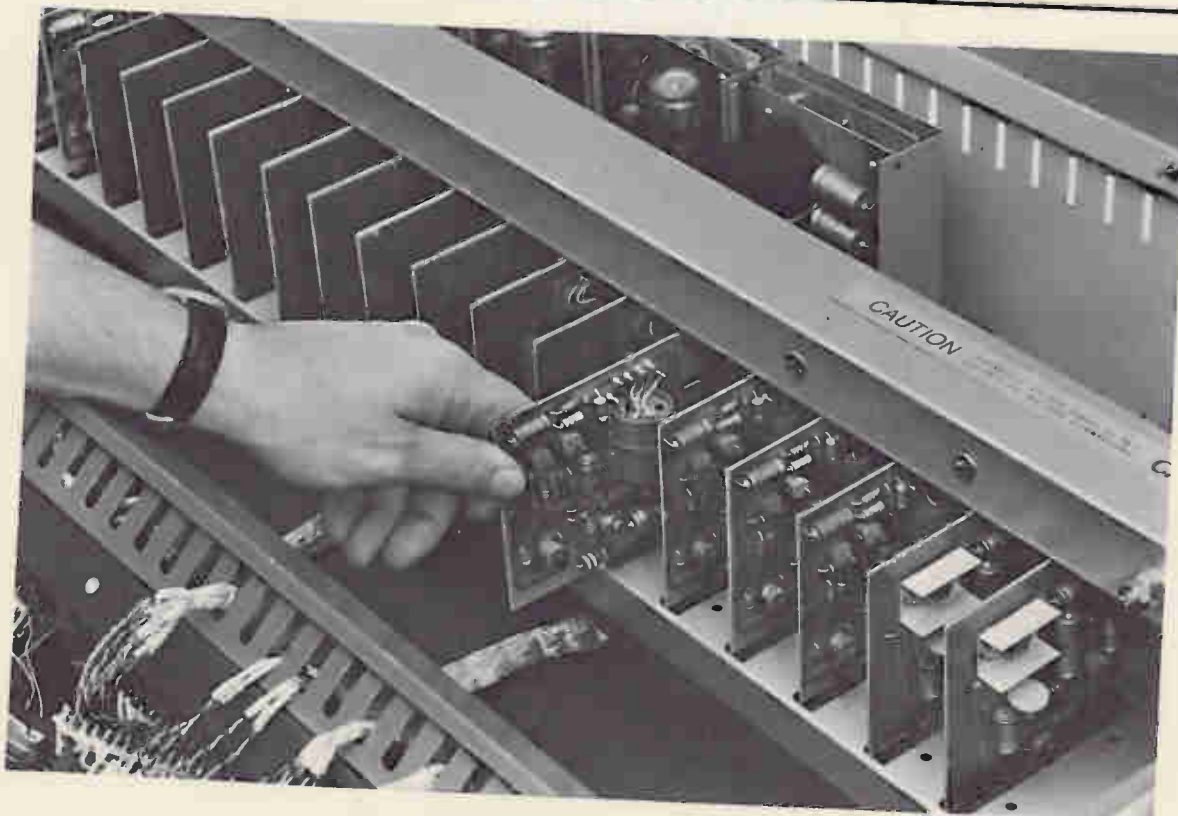
<u>MODEL</u>	<u>DESCRIPTION</u>	<u>PRICE</u>
TBM-1003A	VHF-TV AURAL CHANNEL RECEIVER	\$ 275.00
TBM-2500C	RF AMPLIFIER FOR REMOTE MONITOR OPERATION (CH. 2-6)	515.00
-L		
TBM-2500C	RF AMPLIFIER FOR REMOTE MONITOR OPERATION (CH. 7-13)	530.00
-H		
TBM-5000	VHF-TV FREQUENCY MONITOR (AVAILABLE JANUARY 1973)	1,300.00
TBM-5500	VHF-TV AURAL MODULATION MONITOR	1,300.00
TX-500	VHF-TV MODULATION MONITOR CALIBRATOR	300.00

FOR CURRENT PRICES ON REPLACEMENT PARTS, REPAIR OR RECALIBRATION SERVICES, CONTACT THE MC MARTIN CUSTOMER SERVICE MANAGER.





OPEN VIEW/B-802 stereo console



TYPICAL PLUG-IN CAPABILITY/B-800 series

Mc
ne.
34

CO
area

McMartin®

"8" MIXER AUDIO CONTROL CONSOLES

monaural B-801
stereo B-802
dual mono B-803
dual stereo B-802-S1
stereo mono B-802-S2



DESCRIPTION

Featuring plug-in modular design of all amplifiers and input channel devices for complete operational flexibility, the new McMartin audio consoles provide pushbutton selection of twenty-seven input sources controllable through eight mixing channels.

Standard models are the B-801 monaural, the B-803 dual-channel mono, the B-802 stereo, the B-802-S1 dual-channel stereo and the B-802-S2 stereo/mono "simulcast" version. All models are housed in identical cabinetry.

In their standard configurations, the first three mixing channels are equipped with low-level microphone preamplifiers. Mixers #4 through #7 accommodate high-level unbalanced input sources and Mixer #8 is a high level balanced input for network, auxiliary and four remote line input application. The B-802 models are equipped with module complement to deliver full stereo capability in both the program and monitor channels, throughout the entire console system.

All eight mixing channel module connectors are pre-wired to permit use of microphone or high level modules in any of the input channels. Spare switch contacts have been incorporated to permit extension

of speaker muting and warning light control logic to all eight inputs.

High-quality step-type attenuators with cue switches are used in all mixing channels. Complete cueing of all eight mixer inputs, with built-in panel speaker, is provided.

Monitor amplifier modules provide 8-watt rms output level for studio and house monitor speakers.

All models are equipped with selective intercom between the operating position and each of three studios or four remote lines plus a general paging location.

All solid-state devices are operated at conservative ratings and only highest grade components are used. Close attention has been paid to human engineering design with switches and controls positioned for logical, error-free operation.

The B-800 Series is handsomely styled and completely self-contained. With the interconnection of power source and external device cabling, these consoles are ready to deliver many years of highly-professional, reliable service.

"8" MIXER AUDIO CONTROL CONSOLES

monaural B-801
stereo B-802
dual mono B-803
dual stereo B-802-S1
stereo mono B-802-S2



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FRONT VIEW/B-802 stereo console

SPECIFICATIONS

PROGRAM CHANNEL(S)

FREQUENCY RESPONSE: ± 0.5 dB, 20 to 20,000 Hertz

TOTAL HARMONIC DISTORTION 0.5% or less, 20 to 20,000 Hz @ +18 dBm output with -50 dBm signal fed to any low level input

S/N RATIO: 74 dB or greater below +18 dBm output. -50 dBm input to any low level input. Master and channel mixers adjusted for equal attenuation, totaling 34 dB

OVERALL GAIN .. 102, ± 2 , dBm

OUTPUT LEVEL .. +8 dBm nominal. +24 dBm maximum capability

INPUT LEVELS .. Channels 1-3: -60 dBm nom., -30 dBm max. Channels 4-7: -15 dBm nom., +10 dBm max.

INPUT IMPEDANCES ... Channels 1-3: 150 ohms balanced. (50/600 ohms by strapping). Channels 4-7: 600 ohms unbalanced. (150 ohms by strapping). Channel 8: 600 ohms balanced (150 ohms by strapping).

LINE OUTPUT SWITCHING B-801: Line 1, Line 2 and terminated OFF positions.
 B-802: Stereo (separate L and R outputs), Mono (L+R feeding Line 1) and terminated OFF positions.
 B-803: Channel A to Line 1/Channel B to Line 2, Reversal, and terminated OFF positions.

AUDITION BUSS

OUTPUT(S) B-801, B-802, B-802/S2: -10 dBm, 10K ohms, unbalanced. B-803: None.
 B-802/S1: +8 dBm nominal, +24 dBm maximum.

CROSSTALK B 801, below noise level (audition to program)
 B-802, below noise level (L to R to audition)
 B-803, below noise level (Channel A to Channel B)

MONITOR CHANNEL(S)

FREQUENCY RESPONSE: ± 0.5 dB, 20 to 20,000 Hertz

TOTAL HARMONIC DISTORTION 0.75% or less, 20 to 20,000 Hz @ 8 watts rms output

S/N RATIO: 70 dB below 8 watts (with ± 18 dBm at program line output(s).

OUTPUT LEVEL8 watts rms

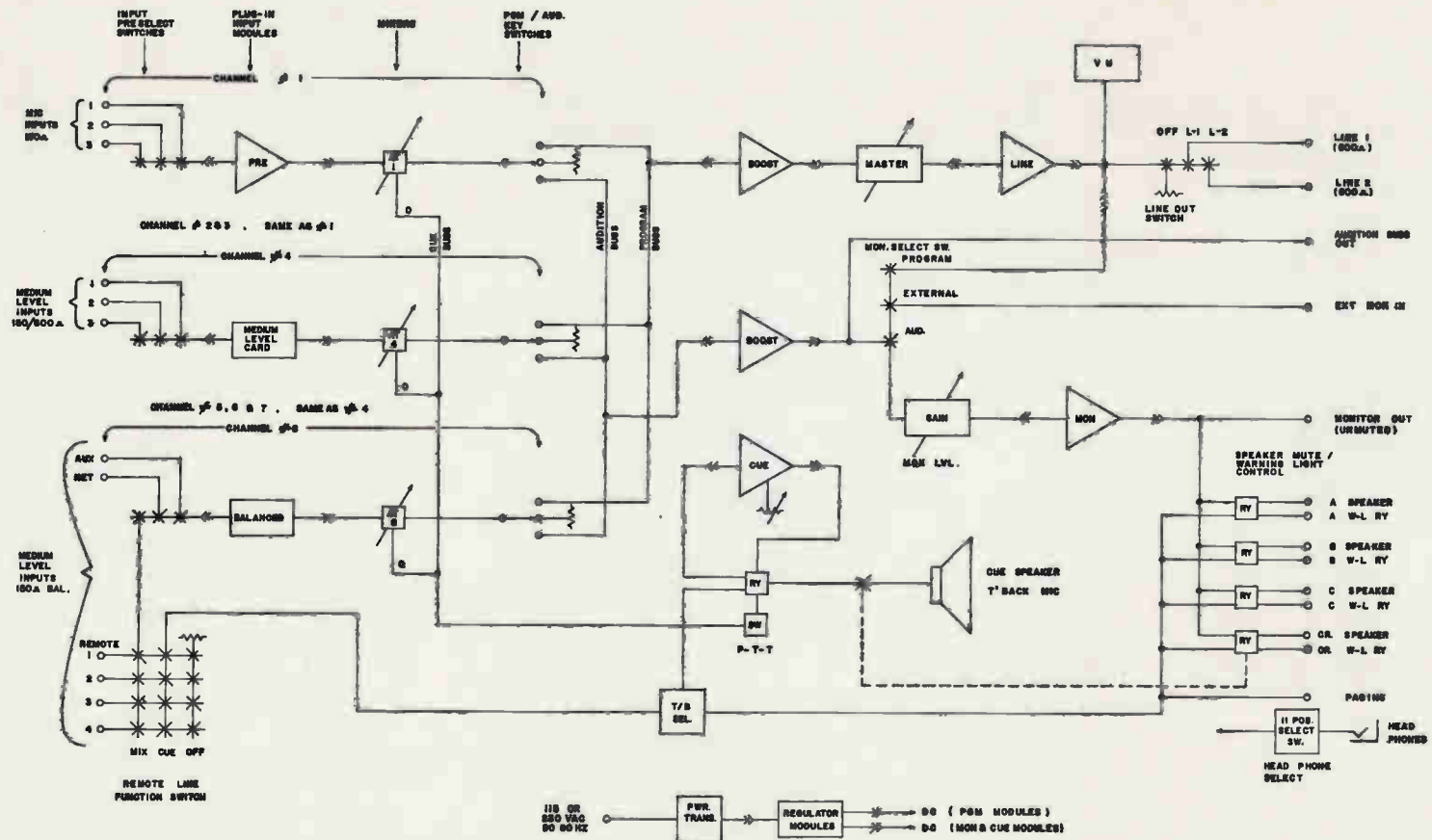
OUTPUT IMPEDANCE8 to 16 ohms, unbalanced

POWER REQUIRED B-801 65 watts
 B-802 100 watts
 B-803 80 watts

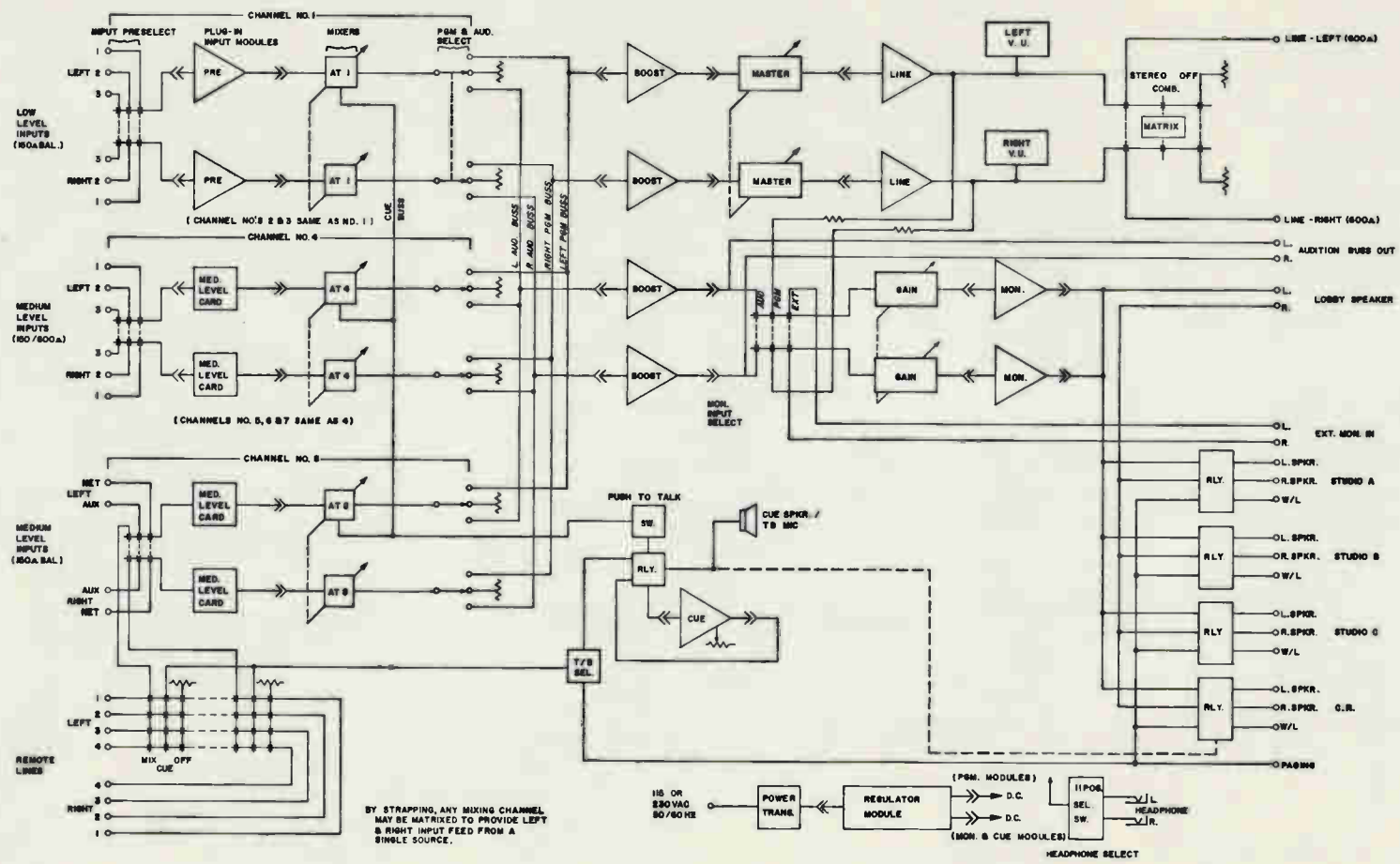
DIMENSIONS: ... 44 $\frac{7}{8}$ " wide, 18 $\frac{1}{4}$ " deep, 9 $\frac{3}{4}$ " high

FINISH Cabinet: Beige with wood trim end panels. Front Panel: Upper control area — beige, lower control area — black.

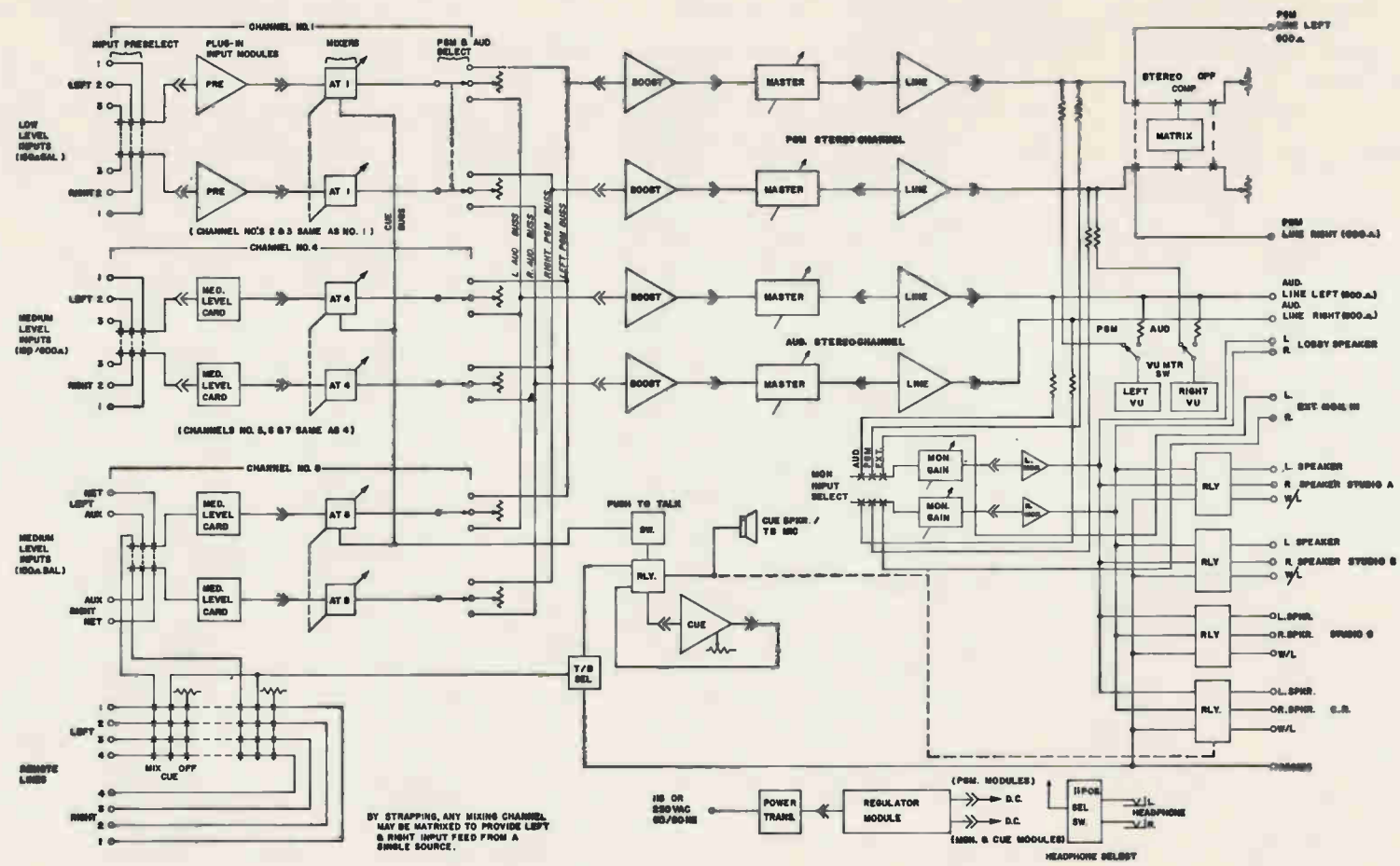
FUNCTIONAL BLOCK DIAGRAM/B-801 monaural console



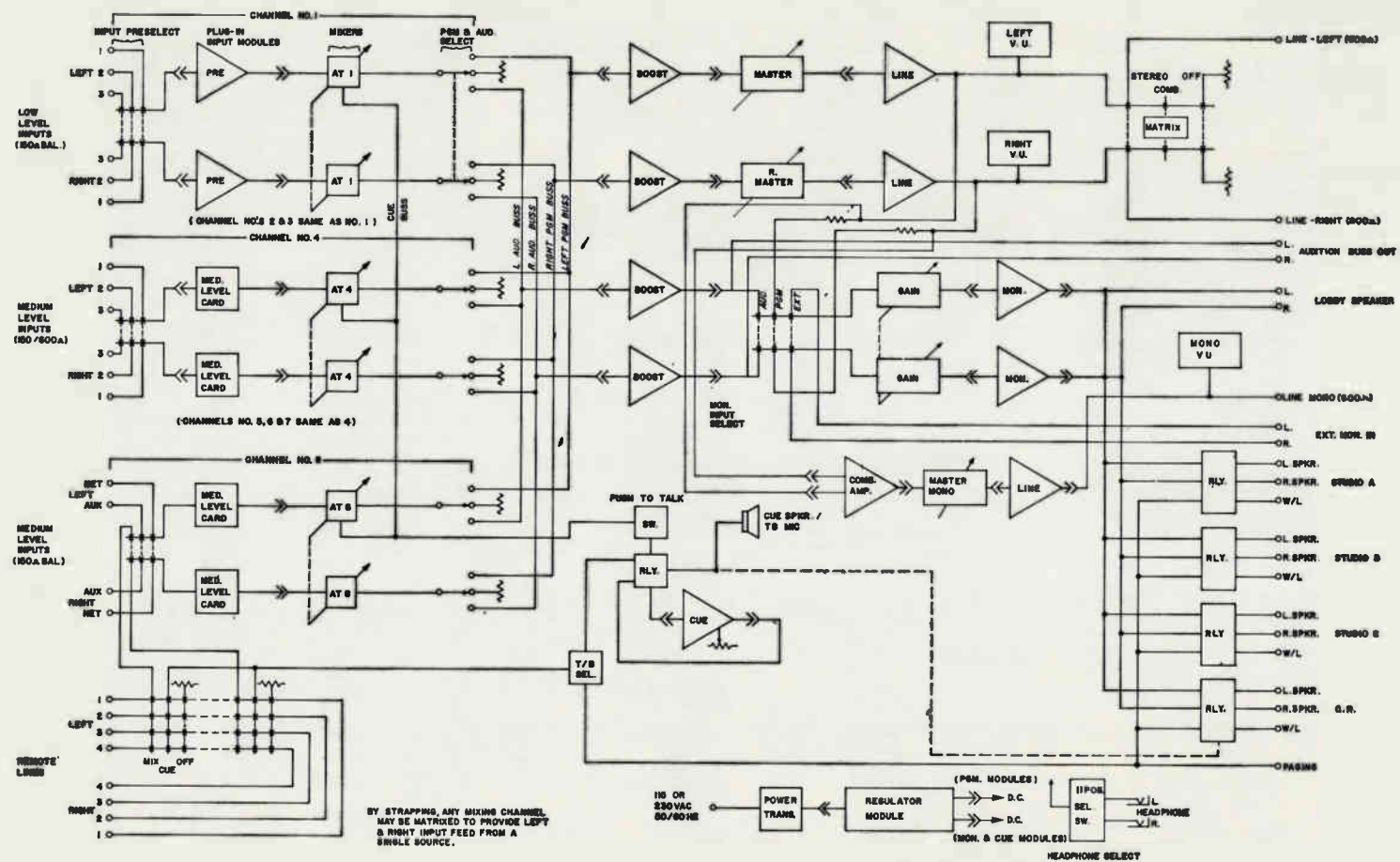
FUNCTIONAL BLOCK DIAGRAM/B-802 stereo console



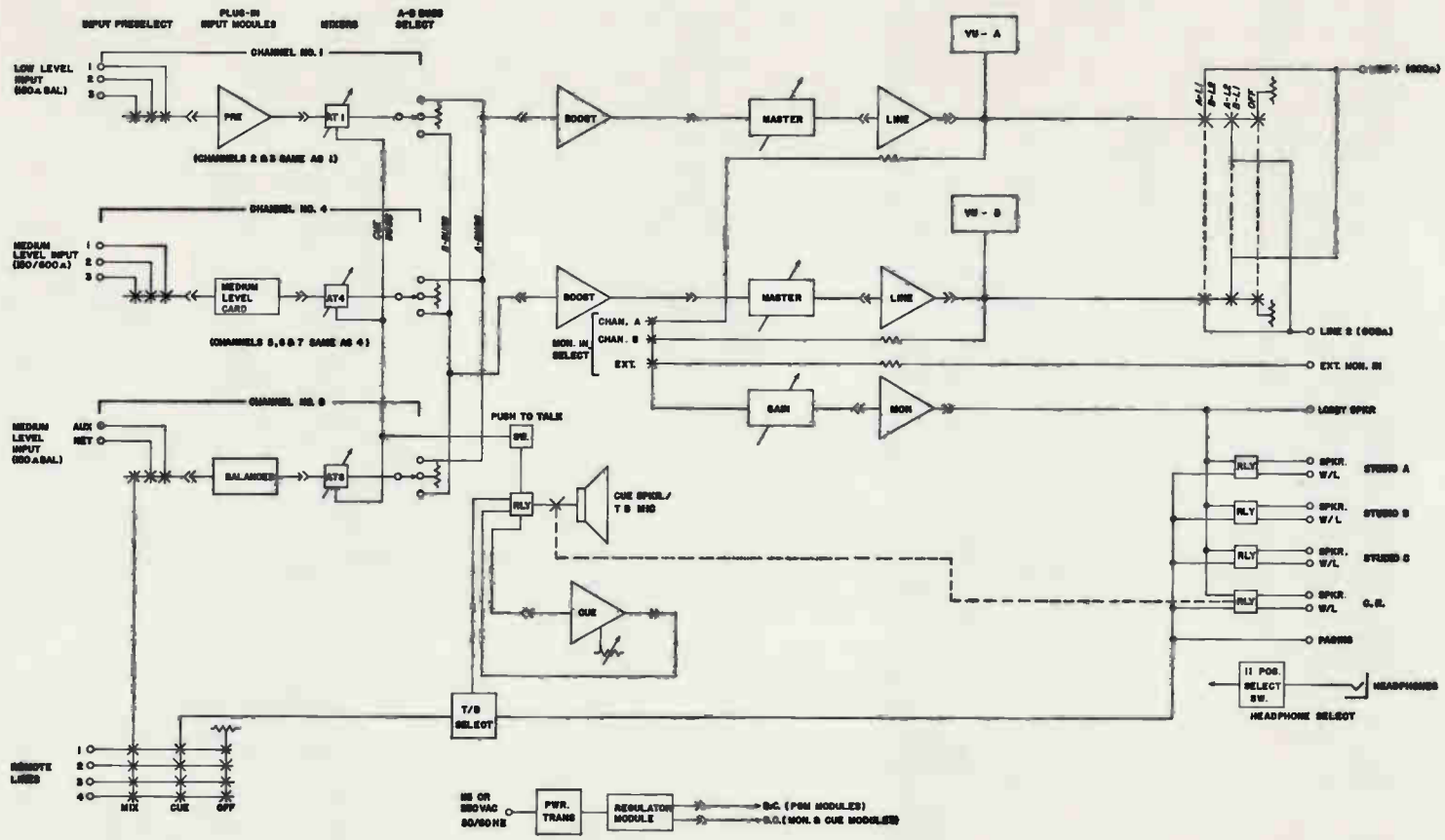
FUNCTIONAL BLOCK DIAGRAM/B-802-S1 dual stereo console

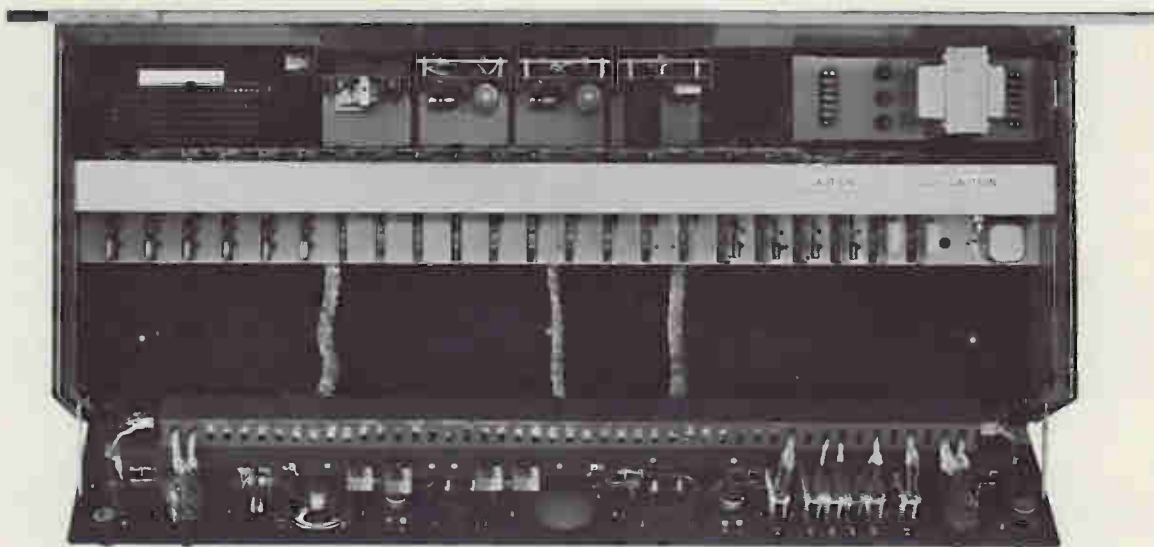


FUNCTIONAL BLOCK DIAGRAM / B-802-S2 stereo/monaural



FUNCTIONAL BLOCK DIAGRAM/B-803 dual channel console



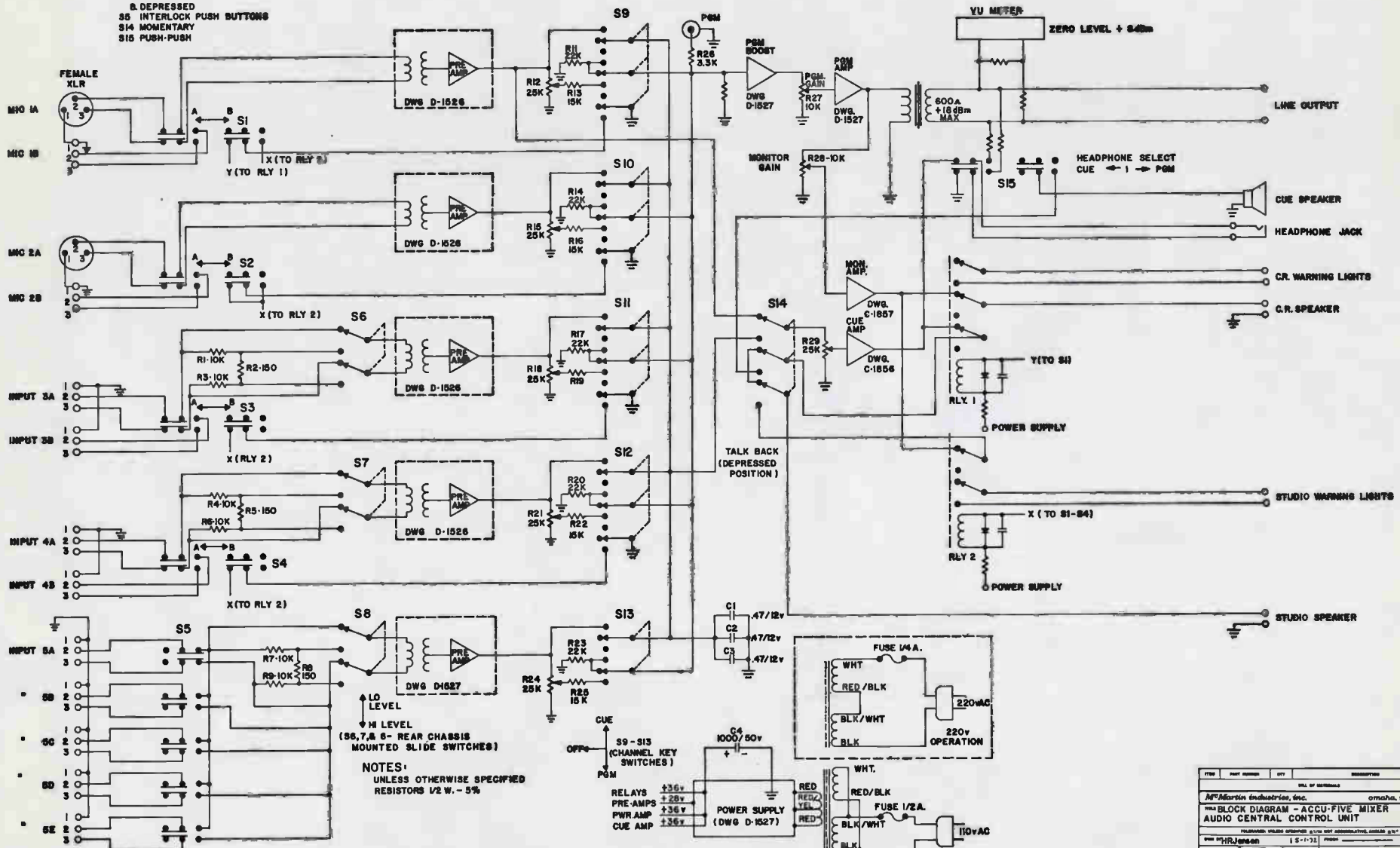


OPEN VIEW/B-802 stereo console



TYPICAL PLUG-IN CAPABILITY/B-800 series

SWITCHES:
 S1-S4 PUSH-PUSH
 A. NON-DEPRESSED
 B. DEPRESSED
 S5 INTERLOCK PUSH BUTTONS
 S14 MOMENTARY
 S15 PUSH-PUSH



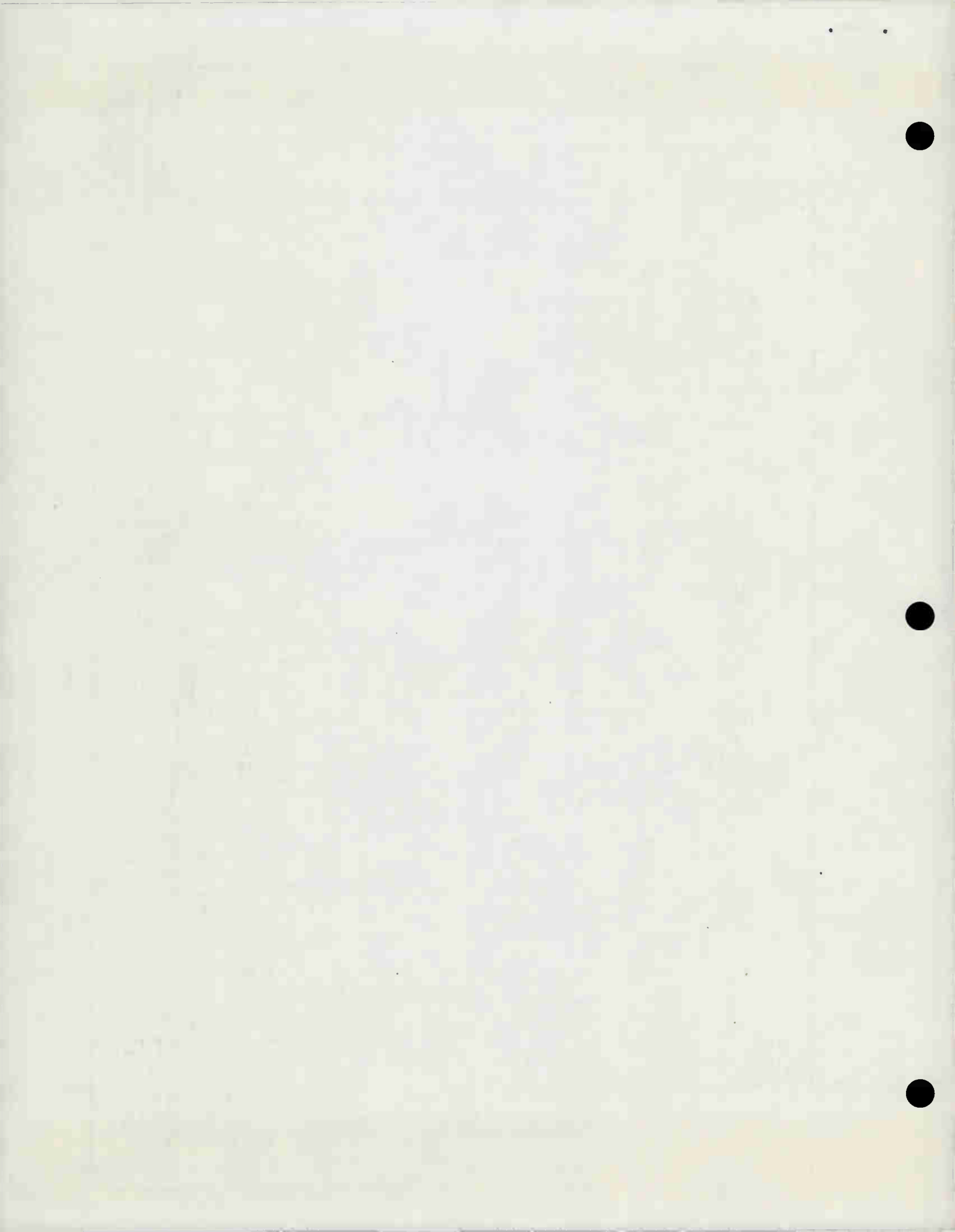
NOTES:
 UNLESS OTHERWISE SPECIFIED
 RESISTORS 1/2 W. - 5%

RELAYS +35V
 PRE-AMPS +25V
 PWR AMP +35V
 CUE AMP +35V

POWER SUPPLY
 (DWG D-1527)

RED/BLK
 RED/BLK
 BLK/WHT
 BLK

REV	DATE	BY	CHK BY	DESCRIPTION
1	12-1-72	JH		REVISED
Martin Industries, Inc. Omaha, Nebraska BLOCK DIAGRAM - ACCU-FIVE MIXER AUDIO CENTRAL CONTROL UNIT				
DESIGNED BY	DATE	DRWN BY	DATE	CHK BY
APPROVED BY	DATE	DATE	DATE	DATE
				D-1525



McMartin

sales representatives

BROADCAST PRODUCTS

WESTERN DISTRICT REGIONAL SALES MANAGER,

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91601

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Oklahoma
Texas (northeast)

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Bob Amos and Associates
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Manitoba
Saskatchewan

ALEX ANDISON
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1624 West Third Street
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North Dakota
South Dakota
Wisconsin (west)

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South Carolina
Virginia (southern)

A. W. GREESON, JR.
219 Homewood Avenue
Greensboro, North Carolina
27403

Phone: (919) 292-1791

Connecticut
Maine
Massachusetts
New Hampshire
Rhode Island
Vermont

WARREN R. HARTWELL
WRH Productions
5 Industrial Way
Riverside, Rhode Island
02915

Phone: (401) 434-6272

Long Island
New Jersey (northeast)
New York City

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Joseph Associates
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P.O. Box 307
Port Washington, New York
11050

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District of Columbia
Maryland
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Pennsylvania (eastern)
Virginia (northern)

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Nevada (southern)

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11200 Chandler Boulevard
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91603

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Hawaii

LARRY HAWKINS

Hawkins Audio Engineers, Inc.
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Honolulu, Hawaii
96817

Phone: (808) 841-5031

Alaska

HARRY J. LANG

Harry J. Lang and Associates
1406 West 47th Avenue
Anchorage, Alaska
99503

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Nevada (northern)

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New York (upper)

WENDELL L. MARTIN

Wendell Martin Company
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Camillus, New York
13031

Phone: (315) 673-2943

INTERNATIONAL

Canada
New Brunswick
New Foundland
Nova Scotia
Ontario, Quebec
Prince Edward

DEL BLACK

Delbee Associates, Ltd.
1555 Pitfield Boulevard
Montreal 384, Quebec, Canada

Phone: (514) 334-5763

Central America
Puerto Rico
South America
Virgin Islands

BERNARD HALPERN

ManRep Corporation
P.O. Box 4808
Miami Lakes, Florida
33014

Phone: (305) 822-7630

Israel

ELI ROSHGOLD

Telemusica, Ltd.
1, Korazin Street, P.O. Box 826
Givatayim, 53108 Israel

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B-800 8-MIXER AUDIO CONSOLES (CONT.)

<u>MODEL</u>	<u>DESCRIPTION</u>	<u>PRICE</u>
B-802-S1	INCLUDES STANDARD MODULE CONTENT SHOWN FOR B-802 IN "B-800 SERIES CONSOLE PRICE LIST", PLUS TWO (2) PLUG-IN PROGRAM AMPLIFIER MODULES TO PROVIDE BALANCED, 600 OHM STEREO, LINE LEVEL OUTPUTS FROM THE AUDITION CHANNELS. INCLUDES SEPARATE INTERNAL AUDITION CHANNEL MASTER GAIN CONTROLS AND FRONT-PANEL VU METER SELECTOR SWITCH TO PERMIT PGM/AUD OUTPUT LEVEL METERING. (PROVIDES FOUR (4) CHANNEL OUTPUT)	\$3,450.00
B-802-S2	INCLUDES STANDARD MODULE CONTENT SHOWN FOR B-802 IN "B-800 SERIES CONSOLE PRICE LIST", PLUS PLUG-IN PROGRAM AMPLIFIER MODULE AND PLUG-IN COMBINING AMPLIFIER STAGE TO PROVIDE CONTINUOUS BALANCED, 600 OHM LINE LEVEL MONAURAL OUTPUT FOR "SIMULCAST" OPERATION. A THIRD, PANEL-MOUNTED, VU METER IS ADDED TO MONITOR MONAURAL OUTPUT. AN INTERNAL TRIM CONTROL PERMITS INDEPENDENT ADJUSTMENT OF MONAURAL OUTPUT LEVEL.	3,400.00
B-803	DUAL CHANNEL, 8-MIXER CONSOLE. COMPLETE WITH FOLLOWING PLUG-IN MODULES: (3) MICROPHONE PREAMPS, (2) BOOSTER AMPS, (2) PROGRAM AMPS, (1) CUE/TALKBACK AMP, (1) 8-WATT MONITOR AMP, (4) HIGH-LEVEL UNBALANCED INPUT, (1) HIGH-LEVEL BALANCED INPUT, (1) POWER SUPPLY REGULATOR, AND (2) MODULE EXTENDER CARDS.	2,650.00

B-800 CONSOLE ACCESSORY PLUG-IN MODULES

<u>MODEL</u>	<u>DESCRIPTION</u>	<u>PRICE</u>
8MP1	MICROPHONE PREAMPLIFIER (551001)	\$ 25.75
8EP1	RIAA EQUALIZED PHONO PREAMPLIFIER (551006)	25.75
8BA1	BOOSTER AMPLIFIER (552004)	25.75
8PG1	PROGRAM AMPLIFIER (552003)	25.00
8MA1	MONITOR AMPLIFIER (552002)	80.00
8QA1	CUE/TALKBACK AMPLIFIER (552001)	60.00
8PS1	POWER SUPPLY REGULATOR (553001)	40.00
8BH1	HIGH-LEVEL BALANCED INPUT (550001)	20.00
8UH1	HIGH-LEVEL UNBALANCED INPUT (550002)	1.50
8XC10	MODULE EXTENDER CARD (10-PIN) (555001)	3.00
8XC15	MODULE EXTENDER CARD (15-PIN) (555005)	5.00
8CA1	COMBINING AMPLIFIER (552055)	20.00

TERMS AND CONDITIONS OF SALE

- 6. **RETURNS:** MERCHANDISE PRODUCED AND SHIPPED IN GOOD FAITH IS NOT RETURNABLE FOR CREDIT. MERCHANDISE MAY BE EXCHANGED IF MC MARTIN INDUSTRIES DETERMINES THAT CIRCUMSTANCES WARRANT SUCH CONCESSION. MERCHANDISE FOR EXCHANGE MUST BE OF CURRENT DESIGN AND IN UNOPENED FACTORY CARTONS AND IS SUBJECT TO A 20 PER CENT RESTOCKING CHARGE, PLUS A \$30.00 RETUNING CHARGE FOR PRODUCTS WITH TUNED RF STAGES.
- 7. **PRODUCT CHANGES:** MC MARTIN RESERVES THE RIGHT WITHOUT ADVANCE NOTICE TO MAKE ENGINEERING AND PRODUCTION CHANGES INCLUDING SUBSTITUTION OF VENDOR SOURCES FOR COMPONENTS WHICH MAY MODIFY THE DESIGN OR SPECIFICATIONS OF ITS BROADCAST PRODUCTS, PROVIDED SAID MODIFICATION WILL NOT MATERIALLY EFFECT THE PERFORMANCE OF THE PRODUCT.
- 8. **GENERAL:**
 - A. THE PREFERRED SHIPPING METHOD SHOULD BE SPECIFIED IN YOUR ORDER. WHEN NOT SPECIFIED, SHIPMENT WILL BE MADE BY A COMMON CARRIER SELECTED BY MC MARTIN. GENERALLY, SHIPMENTS WILL BE MADE WITH TRANSPORTATION CHARGES COLLECTED BY THE CARRIER.
 - B. CLAIMS FOR DAMAGE INCURRED IN TRANSIT MUST BE MADE BY THE CUSTOMER DIRECTLY WITH THE CARRIER, EXCEPT FOR SHIPMENTS HANDLED BY UNITED PARCEL SERVICE (UPS). UPS CLAIMS MUST BE FILED AT THE POINT OF ORIGIN. IN EITHER CASE, MC MARTIN MUST BE IMMEDIATELY NOTIFIED OF DAMAGE DETAILS, DATE, AND MC MARTIN INVOICE NUMBERS INVOLVED.
 - C. IN NO EVENT IS MC MARTIN LIABLE FOR CONSEQUENTIAL DAMAGES RESULTING FROM LATE OR NON-DELIVERY, OR MALFUNCTION OR FAILURE OF ITS BROADCAST PRODUCTS.

MC MARTIN INDUSTRIES, INCORPORATED

TERMS AND CONDITIONS OF SALE

BROADCAST PRODUCTS

1. PRICES: MC MARTIN ENDEAVORS TO KEEP PUBLISHED PRICE LISTS CURRENT AND TO ADVISE CUSTOMERS OF PRICE CHANGES; HOWEVER, ALL PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE. PUBLISHED PRICES APPLY TO UNITED STATES SALES AND ARE BASED ON A CASH TRANSACTION, F.O.B., OMAHA, NEBRASKA. NO APPLICABLE FEDERAL, STATE OR LOCAL TAXES ARE INCLUDED.
2. TERMS OF PAYMENT: TERMS OF PAYMENT ARE CASH WITH ORDER. ORDERS ARE ACCEPTED FROM CUSTOMERS WITH AN ESTABLISHED CREDIT RATING WITH FULL PAYMENT DUE WITHIN 30 DAYS OF SHIPPING DATE. THE PROMPT PAYMENT DISCOUNT IS ONE PER CENT 10TH AND 25TH, NET 30. PAYMENTS MADE BEYOND THE 30-DAY PERIOD ARE SUBJECT TO A FINANCE CHARGE OF 1-1/2 PER CENT PER MONTH (EQUIVALENT TO AN ANNUAL PERCENTAGE RATE OF 18 PER CENT). CUSTOMERS WISHING TO ESTABLISH 30-DAY TERMS SHOULD FURNISH TRADE AND BANK REFERENCES AND CURRENT FINANCIAL INFORMATION FOR REVIEW BY MC MARTIN'S CREDIT DEPARTMENT. EQUIPMENT IS AVAILABLE THROUGH A LEASE/PURCHASE OPTION PLAN. CONTACT MC MARTIN'S SALES DEPARTMENT FOR DETAILS.
3. WARRANTY: MC MARTIN BROADCAST PRODUCTS ARE WARRANTED TO BE FREE FROM DEFECTS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR AFTER SHIPPING DATE WHEN SUBJECTED TO NORMAL USAGE OR SERVICE. ALL WARRANTIES ARE VOID, A) IF EQUIPMENT HAS BEEN ALTERED OR REPAIRED BY OTHERS WITHOUT MC MARTIN'S SPECIFIC PRIOR AUTHORIZATION, OR B) IF EQUIPMENT IS OPERATED UNDER ENVIRONMENTAL CONDITIONS OR CIRCUMSTANCES OTHER THAN THOSE SPECIFICALLY DESCRIBED IN MC MARTIN LITERATURE OR INSTRUCTION MANUALS.
4. REPAIR OR REPLACEMENT: IF A BROADCAST PRODUCT FAILS DURING THE APPLICABLE WARRANTY PERIOD, REPLACEMENT OR REPAIR PARTS WILL BE FURNISHED FREE OF CHARGE. ON REQUEST, AND AT THE DISCRETION OF MC MARTIN, THE CUSTOMER MAY BE REQUIRED TO RETURN THE DEFECTIVE PART OR EQUIPMENT TO MC MARTIN, F.O.B., OMAHA, NEBRASKA. PARTS OR EQUIPMENT MAY BE RETURNED ONLY WITH MC MARTIN'S PRIOR AUTHORIZATION AND MUST BE ACCOMPANIED BY RETURN AUTHORIZATION NUMBER ISSUED BY MC MARTIN'S CUSTOMER SERVICE DEPARTMENT. ALL RETURNED MERCHANDISE MUST BE SENT FREIGHT PREPAID AND WITH APPROPRIATE INSURANCE COVERAGE. FULL DETAILS OF THE CIRCUMSTANCES OF THE FAILURE OR MALFUNCTION SHOULD BE INCLUDED TO EXPEDITE REPAIR OR REPLACEMENT. REPAIRED EQUIPMENT WILL BE SHIPPED TO THE CUSTOMER, F.O.B., FACTORY.
5. OUT-OF-WARRANTY SERVICE: MC MARTIN'S LABORATORY AND TECHNICAL SERVICES ARE AVAILABLE FOR THE REPAIR AND/OR RECALIBRATION OF BROADCAST PRODUCTS OPERATED BEYOND THE WARRANTY PERIOD. TIME REQUIRED FOR RECALIBRATION/REPAIR VARIES WITH EQUIPMENT TYPE AND CURRENT PLANT WORK LOAD. CONTACT MC MARTIN'S CUSTOMER SERVICE MANAGER FOR CURRENT REPAIR TIMES AND RECALIBRATION, LABOR AND PARTS RATES. MC MARTIN WARRANTS RECALIBRATION AND PARTS UTILIZED IN THE REPAIR OF EQUIPMENT FOR A PERIOD OF 90 DAYS BEYOND THE SHIPPING DATE OF SAID RECALIBRATION OR REPAIR. PRIOR RETURN AUTHORIZATION IS REQUIRED FOR EQUIPMENT BEING RETURNED FOR RECALIBRATION OR REPAIR AND ALL TRANSPORTATION AND INSURANCE CHARGES TO AND FROM THE FACTORY ARE TO BE PAID BY THE CUSTOMER.

QUICK REFERENCE TABLE — MCMARTIN PROFESSIONAL AUDIO CONSOLES

<u>FEATURE</u>	<u>ACCU-FIVE</u>	<u>B-500 SERIES</u>	<u>B-800 SERIES</u>
MIXER CHANNELS	5	5	8
INPUTS	13	10	27
MONAURAL CHANNELS	PROGRAM	AUDITION/PROGRAM	AUDITION/PROGRAM
DUAL MONAURAL CHANNELS	NOT AVAILABLE	PROGRAM A/PROGRAM B	PROGRAM A/PROGRAM B
STEREO CHANNELS	NOT AVAILABLE	AUDITION/PROGRAM	AUDITION/PROGRAM
STEREO/MONAURAL CHANNELS	NOT AVAILABLE	NOT AVAILABLE	AUDITION/PROGRAM/ MONAURAL
DUAL STEREO CHANNELS	NOT AVAILABLE	NOT AVAILABLE	PROGRAM/PROGRAM
DUAL STEREO/MONAURAL	NOT AVAILABLE	NOT AVAILABLE	PROGRAM/PROGRAM/ MONAURAL
CUE AMPLIFIER/SPEAKER	PROVIDED	PROVIDED	PROVIDED
CUE INPUT	ALL CHANNELS	ALL CHANNELS	ALL CHANNELS
PROGRAM FREQUENCY	± 1.0 DB 30-15,000	± 0.5 DB 30-15,000	± 0.5 DB 20-20,000
PROGRAM S/N	60 DB BELOW ± 18	72 DB BELOW ± 18	74 DB BELOW ± 18
GAIN	100 ± 2 DBM	100 ± 2 DBM	102 ± 2 DBM
OUTPUT LEVEL	± 8 FOR OVU; ± 18 MAXIMUM	± 8 FOR OVU; ± 18 MAXIMUM	± 8 FOR OVU; ± 24 DBM MAXIMUM
CROSSTALK	BELOW SYSTEM NOISE	BELOW SYSTEM NOISE	BELOW SYSTEM NOISE
MONITOR CHANNEL FREQUENCY	± 1.5 DB 50-15,000	± 1.0 DB 30-15,000	± 0.5 DB 20-20,000
MONITOR AUDIO	4 WATTS RMS	4 WATTS RMS	8 WATTS RMS
MONITOR NOISE	50 DB BELOW 4 WATTS	60 DB BELOW 4 WATTS	70 DB BELOW 8 WATTS
INPUT LEVELS			
	LOW		
	-60 DBM NOMINAL	-60 DBM NOMINAL	-60 DBM NOMINAL
	-35 DBM MAXIMUM	-34 DBM MAXIMUM	-30 DBM MAXIMUM
	HIGH		
	-20 DBM NOMINAL	-15 NOMINAL	-15 DBM NOMINAL
	± 5 DBM MAXIMUM	± 10 DBM MAXIMUM	± 10 DBM MAXIMUM
ATTENUATORS	MOLDED COMPOSITION	MOLDED COMPOSITION; STEP TYPE OPTIONAL	STEP TYPE
TALK BACK AMPLIFIER	PROVIDED	NOT AVAILABLE	PROVIDED
PRINTED CIRCUIT BOARDS	FIX WIRED	PROGRAM/AUDITION CHANNELS PLUG-IN; MONITOR AND CUE AMPS FIX WIRED	ALL PLUG-IN
STANDARD CONFIGURATION	1-MIC (ONE OF 2) 2-MIC (ONE OF 2) 3-HI/LO (ONE OF 2) 4-HI/LO (ONE OF 2) 5-HI/LO (ONE OF 5) 6- 7- 8-	MIC (ONE OF 2) HI BAL (ONE OF 2) HI BAL (ONE OF 2) HI BAL (ONE OF 2) HI BAL (ONE OF 2)	MIC (ONE OF 3) MIC (ONE OF 3) MIC (ONE OF 3) HI UNBAL (ONE OF 3) HI UNBAL (ONE OF 3) HI UNBAL (ONE OF 3) HI UNBAL (ONE OF 3) HI BAL (ONE OF 6)
	(ALL INPUTS ON B-500 AND B-800 CONSOLES ARE PLUG-IN AND INTER- CHANGEABLE -- ANY MIXER MAY BE LOW OR HIGH LEVEL BY SELECTION OF PROPER PLUG-IN CARD -- SEE CONSOLE PRICE LIST.)		
INPUT TERMINATION	1 AND 2 CANNON 3 - 5 SCREW TERMINALS	ALL SCREW TERMINALS	ALL SOLDER TYPE
OUTPUT TERMINATION	SCREW TERMINALS	SCREW TERMINALS	ALL SOLDER TYPE
MUTING	ONE RELAY PROVIDED	ONE RELAY PROVIDED; ONE OPTIONAL	FOUR RELAYS PROVIDED
POWER SUPPLY	120/220VAC, 50-60 HZ	120/220VAC, 50-60 HZ	120/220VAC, 50-60 HZ
SIZE	19"W, 3.50"H, 10"D	27"W, 7"H, 16"D	44.75"W, 9.75"H, 18.25"D

MC MARTIN INDUSTRIES, INC.
CHANGES TO BROADCAST PRICE LIST

ADD TO PAGE B-72-AC1:

OPTIONAL STEP ATTENUATORS FOR FIVE (5) MIXERS ON B-500 SERIES CONSOLES:

B-501 AND B-503 (MONAURAL)	ADD: \$225.00
B-502 (STEREO)	ADD: \$350.00

ALLOW 30 TO 45 DAYS DELIVERY.

ADD TO PAGE B-72-AC3:

B-802-S3	B-802 STEREO CONSOLE PLUS FEATURES OF S1 AND S2 MODELS.	\$3,850.00
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ALLOW 30 TO 45 DAYS DELIVERY.

DELETE FROM PAGE B-72-M1:

TBM-0380 (REPLACED BY STE-1 IN TBM-1000B)

TBM-3500A (REPLACED BY TBM-3700 OR TBM-4500A)

ADD TO PAGE B-72-M3:

TBM-8800	AM-RF AMPLIFIER WITH AGC (AVAILABLE MARCH 1973)	\$485.00
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B-500 CONSOLE ACCESSORY PLUG-IN MODULES

<u>MODEL</u>	<u>DESCRIPTION</u>	<u>PRICE</u>
<u>PLUG-IN CARDS</u>		
5MP1	MICROPHONE PREAMPLIFIER (B-501 AND B-503) (551010)	\$ 22.00
5MP2	DUAL MIC PREAMP (B-502) (551011)	43.50
5BA1	BOOSTER AMP (B-501 AND B-503) (552021)	12.00
5BA2	DUAL BOOSTER AMP (B-502) (552010)	16.00
5PG1	PROGRAM AMP (B-501 AND B-503) (552011)	15.00
5PG2	DUAL PROGRAM AMP (B-502) (552012)	23.00
5BH1	HIGH LEVEL BALANCED (B-501 AND B-503) (552013)	19.50
5BH2	DUAL HIGH LEVEL BALANCED (B-502) (552014)	37.50
5PS1	POWER SUPPLY REGULATOR (ALL MODELS) (553007)	16.00
5EP1	RIAA EQUALIZED PHONO PREAMPLIFIER (B-501 AND B-503) (551020)	22.00
5EP2	DUAL RIAA EQUALIZED PHONO PREAMPLIFIER (B-502) (551021)	43.50
<u>FIXED CARDS</u>		
5QA1	CUE AMPLIFIER (ALL MODELS) (552015)	18.00
5MA1	MONITOR AMPLIFIER (ALL MODELS) (552016)	23.00
<u>OPTIONAL</u>		
5RY1	SPEAKER MUTING RELAY (ALL MODELS) (550022)	10.00

B-800 8-MIXER AUDIO CONSOLES

<u>MODEL</u>	<u>DESCRIPTION</u>	<u>PRICE</u>
B-801	MONAURAL, 8-MIXER CONSOLE. COMPLETE WITH FOLLOWING PLUG-IN MODULES: (3) MICROPHONE PREAMPS, (2) BOOSTER AMPS, (1) PROGRAM AMP, (1) CUE/TALKBACK AMP, (1) 8-WATT MONITOR AMP, (4) HIGH-LEVEL UNBALANCED INPUT, (1) HIGH-LEVEL BALANCED INPUT, (1) POWER SUPPLY REGULATOR, AND (2) MODULE EXTENDER CARDS.	\$2,350.00
B-802	STEREO, 8-MIXER CONSOLE. COMPLETE WITH FOLLOWING PLUG-IN MODULES: (6) MICROPHONE PREAMPS, (4) BOOSTER AMPS, (2) PROGRAM AMPS, (1) CUE/TALKBACK AMP, (2) 8-WATT MONITOR AMPS, (8) HIGH-LEVEL UNBALANCED INPUT, (2) HIGH-LEVEL BALANCED INPUT, (1) POWER SUPPLY REGULATOR, AND (2) MODULE EXTENDER CARDS.	3,200.00

MC MARTIN INDUSTRIES, INCORPORATED

BROADCAST EQUIPMENT PRICE LIST

B-500 AND ACCU-FIVE 5-MIXER AUDIO CONSOLES

<u>MODEL</u>	<u>DESCRIPTION</u>	<u>PRICE</u>
B-501	MONAURAL, 5-MIXER CONSOLE. COMPLETE WITH (1) CUE AMPLIFIER, (1) MONITOR AMPLIFIER AND FOLLOWING PLUG-IN CARDS: (1) MIC PREAMP, (4) HI-BAL CARDS, (2) BOOSTER AMPS, (1) PROGRAM AMP AND (1) POWER SUPPLY REGULATOR. INCLUDES (1) SPEAKER MUTING RELAY.	\$ 750.00
B-502	STEREO, 5-MIXER CONSOLE. COMPLETE WITH (1) CUE AMPLIFIER, (2) MONITOR AMPLIFIERS AND FOLLOWING PLUG-IN CARDS: (1) DUAL MIC PREAMP, (4) DUAL HI-BAL CARDS, (1) DUAL BOOSTER AMP, (1) DUAL PROGRAM AMP AND (1) POWER SUPPLY REGULATOR. INCLUDES (1) SPEAKER MUTING RELAY.	1,050.00
B-503	DUAL CHANNEL, 5-MIXER CONSOLE. COMPLETE WITH (1) CUE AMP, (1) MONITOR AMP AND FOLLOWING PLUG-IN CARDS: (1) MIC PREAMP, (4) HI-BAL CARDS, (2) BOOSTER AMPS, (2) POWER AMPS AND (1) POWER SUPPLY REGULATOR. INCLUDES (1) SPEAKER MUTING RELAY.	950.00
<u>B-500 ATTENUATOR WARRANTY</u>		
MC MARTIN B-500 SERIES CONSOLES USE ALLEN BRADLEY MOLDED COMPOSITION TRIPLE WIPER ATTENUATORS WHICH TYPICALLY WILL OPERATE IN EXCESS OF FIVE (5) MILLION TIMES WITHOUT DEGRADATION OF ELECTRICAL OR MECHANICAL SPECIFICATIONS. THE CONTROLS ARE GUARANTEED FOR A PERIOD OF FIVE (5) YEARS FROM THE DATE OF DELIVERY AND WILL BE REPLACED FREE OF CHARGE. REPLACEMENTS WILL BE SENT BY RETURN MAIL AT NO CHARGE. PLEASE SEND THE CONSOLE SERIAL NUMBER, MODEL NUMBER AND REQUIRED NUMBER OF CONTROLS.		
ACCU-FIVE	FIVE INPUT RACK MOUNT REMOTE AND CATV MIXER - COMPLETE	495.00

FIVE MIXER AUDIO CENTRAL CONTROL UNIT

ACCU-FIVE



**FULL PROGRAM, MONITOR & CUE FACILITIES
ACCOMMODATES UP TO 13 MICROPHONE INPUTS
HIGH/LOW LEVEL INPUT SWITCHING ON 3 CHANNELS**

**ALL INPUTS TRANSFORMER ISOLATED
COMPLETELY SILICON SOLID STATE
CUE/TALKBACK CAPABILITY**

DESCRIPTION

The McMartin "Accu-Five" five channel mini-console is completely self-contained in a 3½-inch rack-mount unit.

Mixers 1 and 2 are designed to control low level microphone inputs with panel selection of two sources per channel. Loudspeaker muting associated with channel switching for these two mixers is provided.

Mixers 3 and 4 may accommodate either microphone or high level (as from tape devices, turntables, etc.) inputs by means of rear chassis switching. Mixer 5 accommodates five similar type inputs through pre-select pushbutton selection.

All input sources may be previewed by cue bus switching for each channel without disturbing the mixer control positions. A panel mounted cue speaker is driven by the internal cue amplifier. The latter also performs a second function. It serves as a talkback amplifier, permitting communication between the control room and studio. Provision is made for headphone monitoring of program or cue material. When the latter function is used, the cue speaker is muted.

The "Accu-Five", in spite of its compactness, retains truly professional operating parameters. Program output capability is +18dBm with ±1.0dB response and 0.5% or lower harmonic distortion, 30-15000Hz.

The monitor amplifier delivers 4.0 watts rms into an 8-ohm load with ±1.5dB response and 1.0% or less THD at full output, 50-15000Hz.

XL type microphone connectors are used for one each of the two microphone-level inputs to Mixers 1 & 2. All remaining input and output connections are made to screw-type terminals on the rear of the unit.

An illuminated VU meter calibrated for zero-VU deflection when +8dBm appears at the program channel output terminals, permits visual monitoring of the program material.

The "Accu-Five" is ideally suited for broadcast remote or production applications, educational broadcast or training purposes or as the audio complement to closed circuit TV operations.



SPECIFICATIONS

PROGRAM CHANNEL

Frequency response: $\pm 1.0\text{dB}$, 30-15,000 Hz

Harmonic distortion: 0.5% or less, 30-15,000Hz @ +18 dBm output and -50dBm signal to any low-level input

S/N ratio: 60dB below +8dBm output produced by -50dBm signal to any low-level input

Overall gain: 100, $\pm 2\text{dB}$

Input impedances: Low level mode: 150-ohms, balanced
High level mode; 600-ohms, balanced

Input levels: Low level mode: -60dBm nom;
-35dBm max.
High level mode: -20dBm nom;
+5dBm max.

Output: 600-ohms balanced (transformer isolated) +8dBm nom; +18dBm max.

CROSSTALK

(Cue to Program Channels): Below system noise

MONITOR CHANNEL:

Frequency response: $\pm 1.5\text{dB}$, 50-15,000 Hz

Harmonic distortion: 1.0% or less, 50-15,000 Hz @ full output

Output level: 4 watts, rms

Output impedance: 8 ohms, unbalanced

GENERAL:

Power requirements: 115/230V AC, 50/60 Hz, 30 watts

Dimensions: (W) EIA Standard 19" rack mount,
(H) 3½", (D) 10" overall

Weight: 12 pounds

Finish: McMartin Beige

FIVE MIXER AUDIO CONTROL CONSOLE

monaural B-501
 stereo B-502
 dual channel B-503



DESCRIPTION

The McMartin B-500, 5-mixer consoles are designed for production and subcontrol room applications, or as the main control unit for smaller operations. Three models are available, the B-501 for monaural operation, the B-502 for stereo applications, and the B-503 for dual channel requirements.

A total of ten inputs, two per mixing channel are available. The standard configuration assigns low level microphone inputs to Mixer 1. The remaining four mixers accommodate balanced high-level inputs. Since all program circuits are on plug-in cards, full flexibility in mixer function assignments is possible by simple interchange of input module cards. Relay

control of speaker muting/warning light operation at a second location is possible. Spare contacts on the channel lever key switches and preselect input push-buttons permit extension of muting logic to all channels, if desired.

Each model represents a complete self-contained system with full program, audition, cue and monitoring capability. All external connections are made to barrier-type screw terminals on the rear of the cabinet.

The B-500 Series Consoles are finished in beige and black with wood-grain finish end panels.

SPECIFICATIONS

PROGRAM CHANNEL(S):

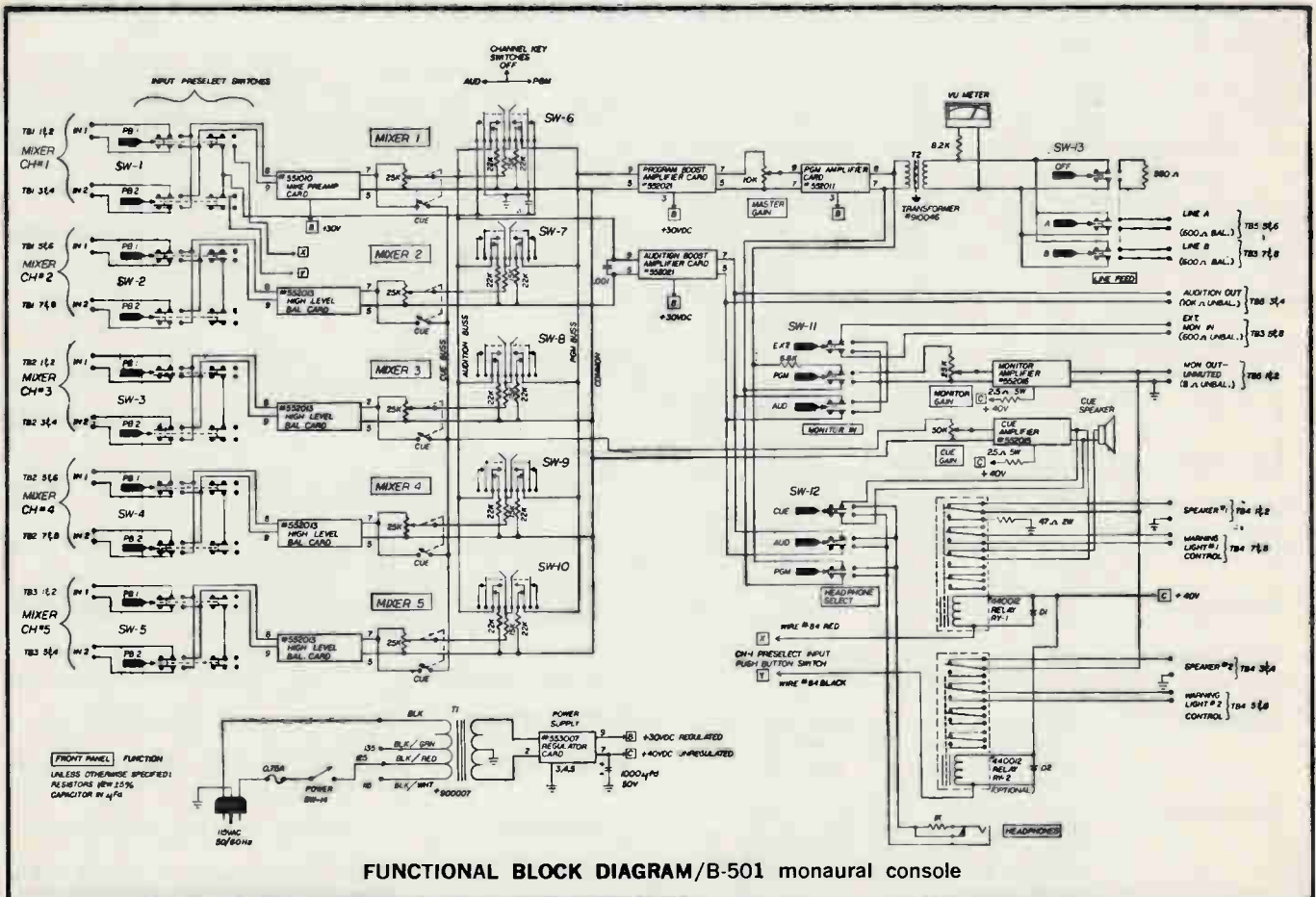
Frequency response	..... ±0.5 dB, 30-15,000 Hz
Harmonic distortion	..... 0.5% or less, 30-15,000 Hz @ +18 dBm output
S/N ratio	..... 72 dB or greater below +18 dBm output
Overall gain	..... 100, ±2, dB
Output level	..... +8 dBm for 0 VU meter reading, +18 dBm capability
Input level	..... Microphone channels: -60 dBm nom., -34 dBm max. High level channels: -15 dBm nom., +10 dBm max.
Impedances	..... Mic channels, 150 ohms balanced; High level channels, 600 ohms, balanced; Audition bus, 2500 ohms unbalanced; Program line output(s); 600 ohms balanced

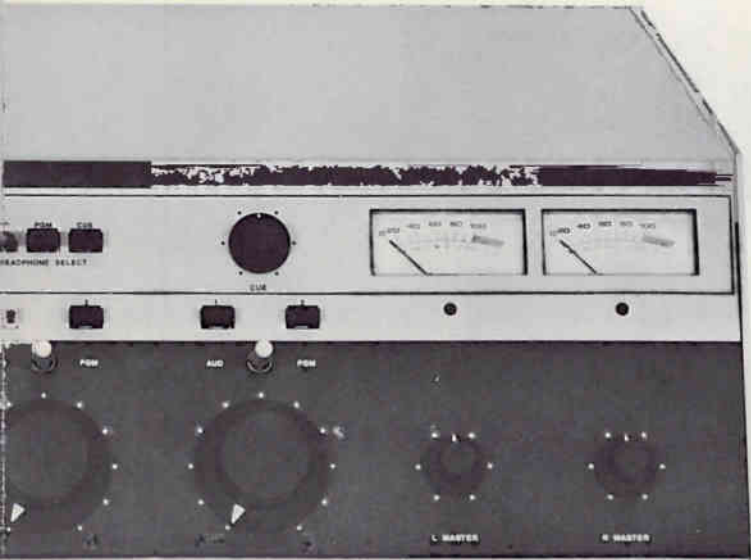
MONITOR CHANNEL(S):

Frequency response:	..... ±1.0 dB, 30-15,000 Hz
Harmonic distortion	..... 1.0% or less, 30-15,000 Hz @ 4 watts rms output
S/N ratio	..... 60 dB below 4 watts rms output (fed through program input).
Output level	..... 4 watts rms continuous; 8 watts, normal program content
Output impedance	..... 8 ohms, unbalanced
TERMINATIONS	..... Barrier-type screw terminals at rear
POWER SUPPLY	..... 115 VAC, 50/60 Hz (230 VAC on special order).
DIMENSIONS	..... 27" width x 7" height x 16" depth
FINISH	..... Beige, matte black in control knob area, wood grain end panel trim

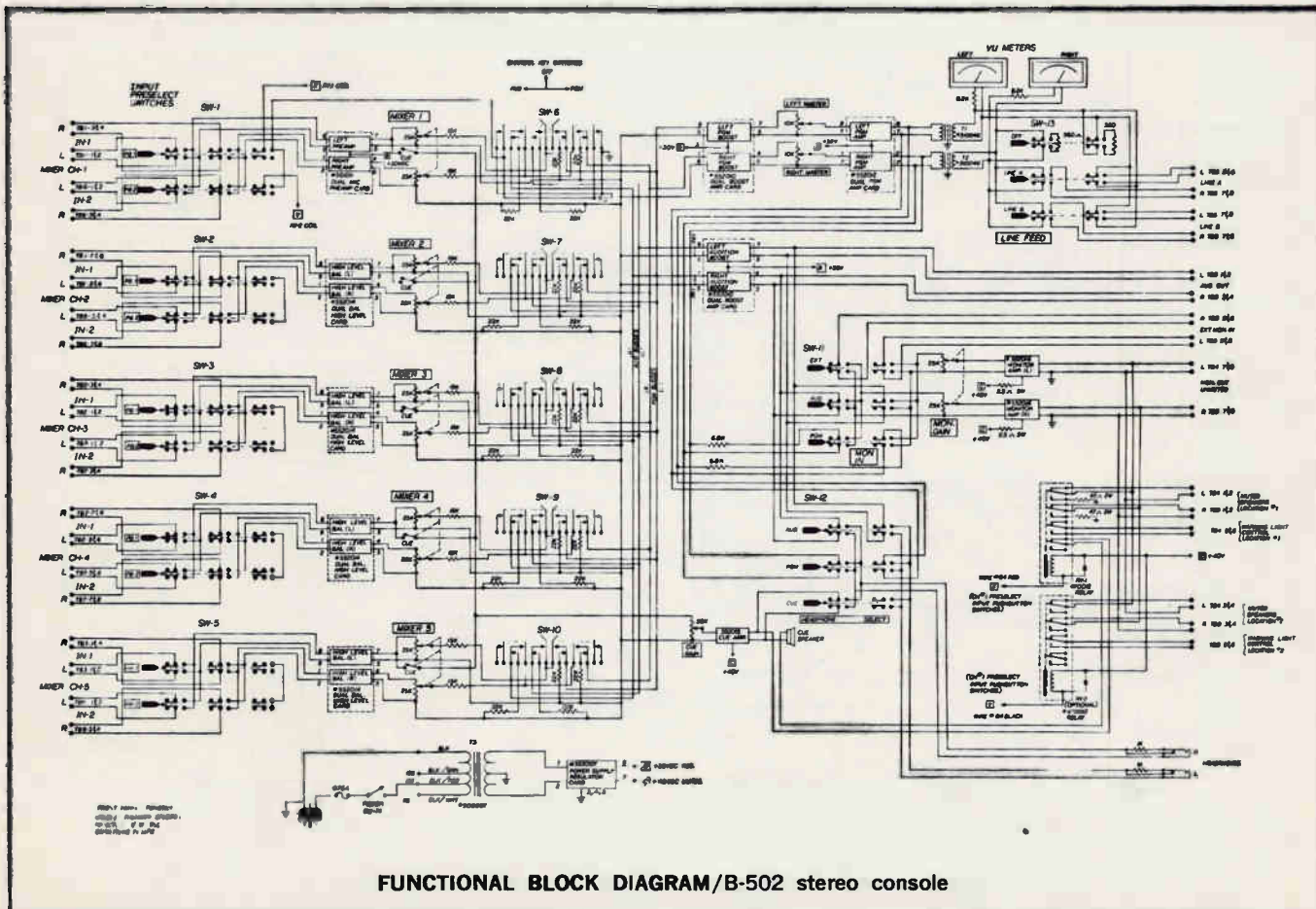


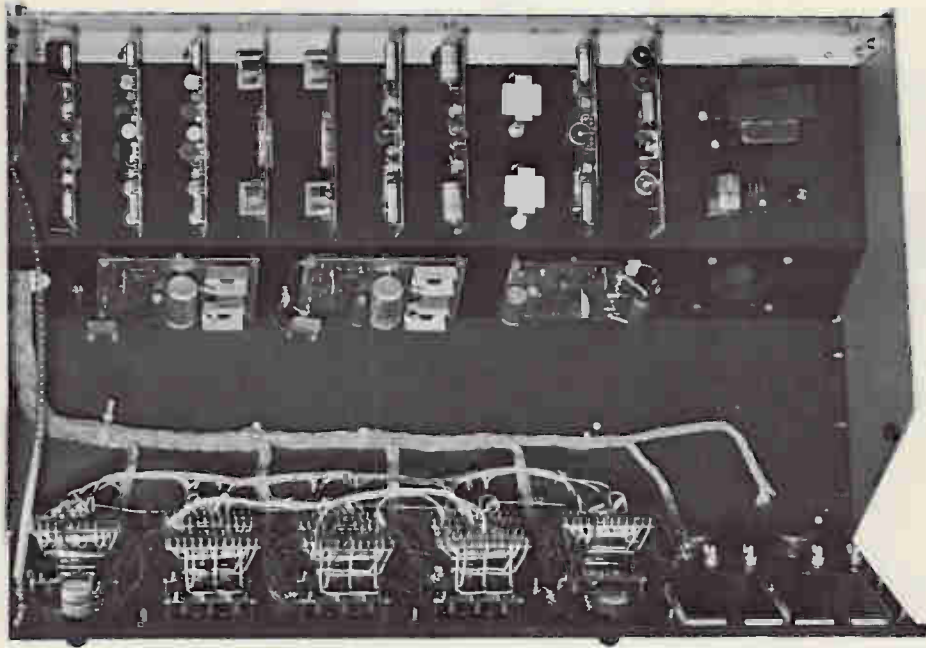
FRONT VIEW/B-



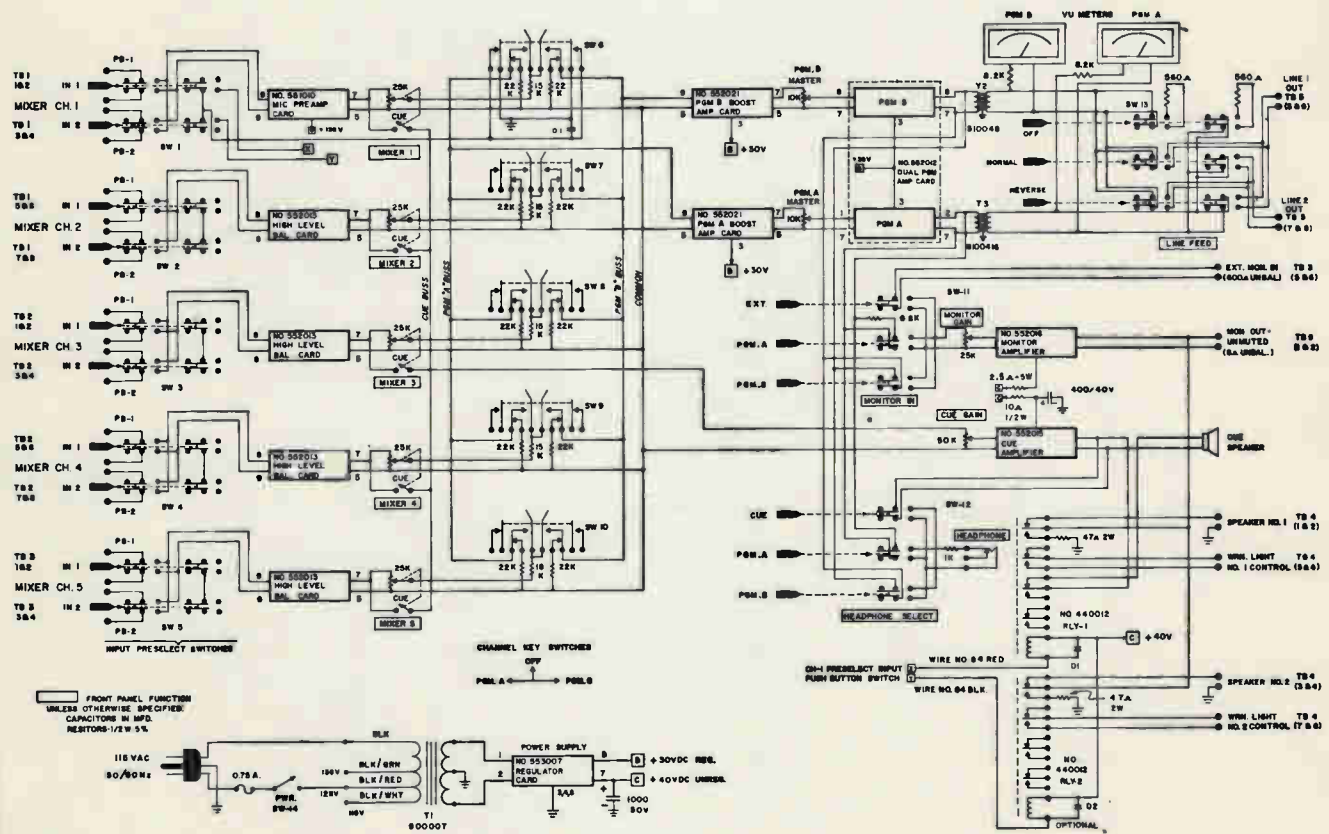


B-502 stereo console





OPEN VIEW/B-502 stereo console



FUNCTIONAL BLOCK DIAGRAM/B-503 dual channel console

FIVE MIXER AUDIO CENTRAL CONTROL UNIT

ACCU-FIVE



**FULL PROGRAM, MONITOR & CUE FACILITIES
ACCOMMODATES UP TO 13 MICROPHONE INPUTS
HIGH/LOW LEVEL INPUT SWITCHING ON 3 CHANNELS**

**ALL INPUTS TRANSFORMER ISOLATED
COMPLETELY SILICON SOLID STATE
CUE/TALKBACK CAPABILITY**

DESCRIPTION

The McMartin "Accu-Five" five channel mini-console is completely self-contained in a 3½-inch rack-mount unit.

Mixers 1 and 2 are designed to control low level microphone inputs with panel selection of two sources per channel. Loudspeaker muting associated with channel switching for these two mixers is provided.

Mixers 3 and 4 may accommodate either microphone or high level (as from tape devices, turntables, etc.) inputs by means of rear chassis switching. Mixer 5 accommodates five similar type inputs through pre-select pushbutton selection.

All input sources may be previewed by cue bus switching for each channel without disturbing the mixer control positions. A panel mounted cue speaker is driven by the internal cue amplifier. The latter also performs a second function. It serves as a talkback amplifier, permitting communication between the control room and studio. Provision is made for headphone monitoring of program or cue material. When the latter function is used, the cue speaker is muted.

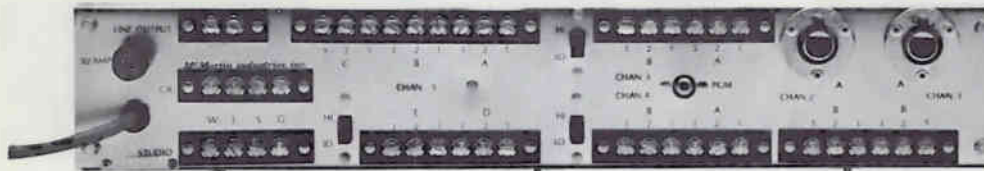
The "Accu-Five", in spite of its compactness, retains truly professional operating parameters. Program output capability is +18dBm with ±1.0dB response and 0.5% or lower harmonic distortion, 30-15000Hz.

The monitor amplifier delivers 4.0 watts rms into an 8-ohm load with ±1.5dB response and 1.0% or less THD at full output, 50-15000Hz.

XL type microphone connectors are used for one each of the two microphone-level inputs to Mixers 1 & 2. All remaining input and output connections are made to screw-type terminals on the rear of the unit.

An illuminated VU meter calibrated for zero-VU deflection when +8dBm appears at the program channel output terminals, permits visual monitoring of the program material.

The "Accu-Five" is ideally suited for broadcast remote or production applications, educational broadcast or training purposes or as the audio complement to closed circuit TV operations.



SPECIFICATIONS

PROGRAM CHANNEL

Frequency response: $\pm 1.0\text{dB}$, 30-15,000 Hz

Harmonic distortion: 0.5% or less, 30-15,000Hz @ +18 dBm output and -50dBm signal to any low-level input

S/N ratio: 60dB below +8dBm output produced by -50dBm signal to any low-level input

Overall gain: 100, $\pm 2\text{dB}$

Input impedances: Low level mode: 150-ohms, balanced
High level mode; 600-ohms, balanced

Input levels: Low level mode: -60dBm nom;
-35dBm max.
High level mode: -20dBm nom;
+5dBm max.

Output: 600-ohms balanced (transformer isolated) +8dBm nom; +18dBm max.

CROSTALK

(Cue to Program Channels): Below system noise

MONITOR CHANNEL:

Frequency response: $\pm 1.5\text{dB}$, 50-15,000 Hz

Harmonic distortion: 1.0% or less, 50-15,000 Hz @ full output

Output level: 4 watts, rms

Output impedance: 8 ohms, unbalanced

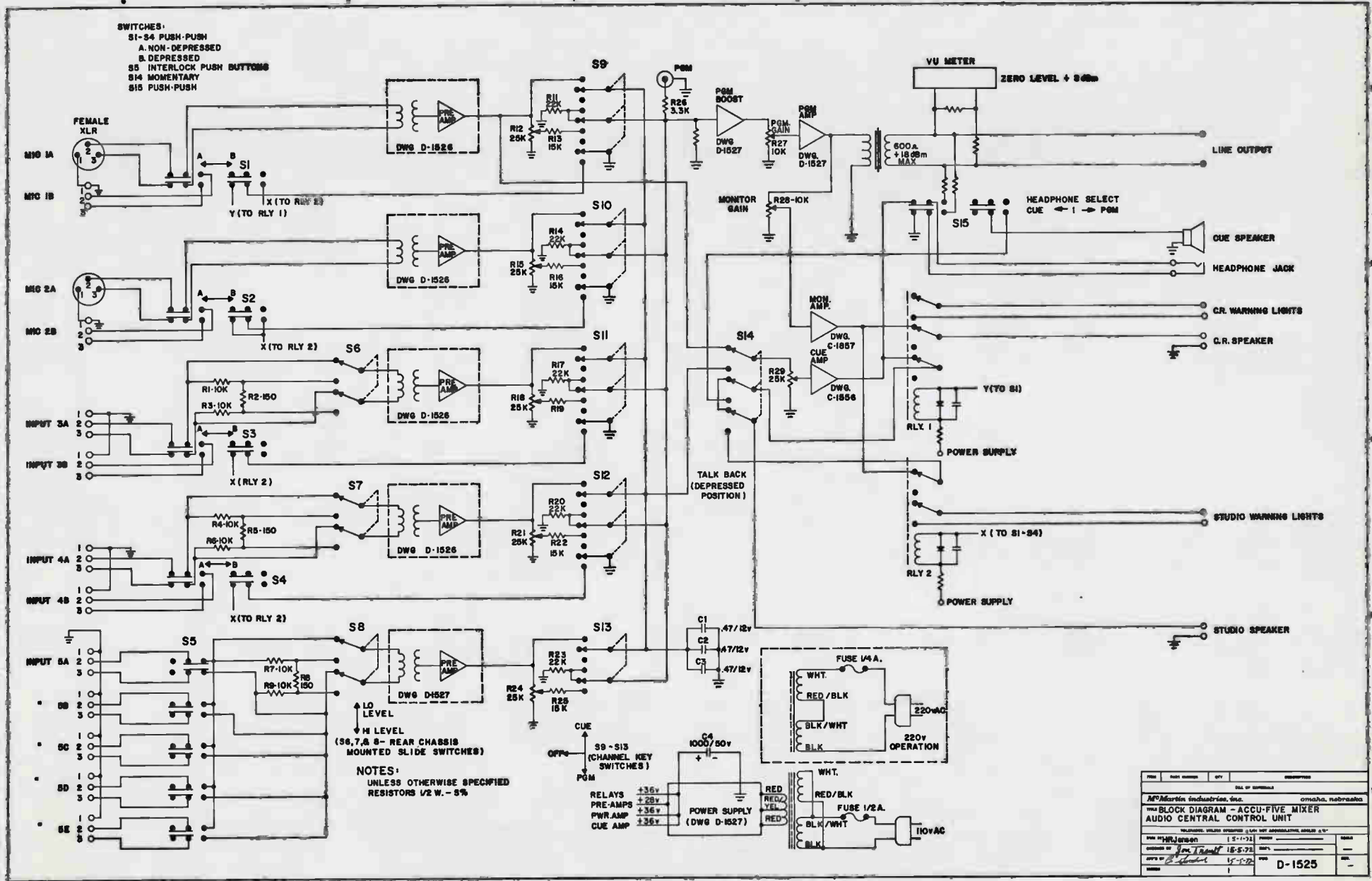
GENERAL:

Power requirements: 115/230V AC, 50/60 Hz, 30 watts

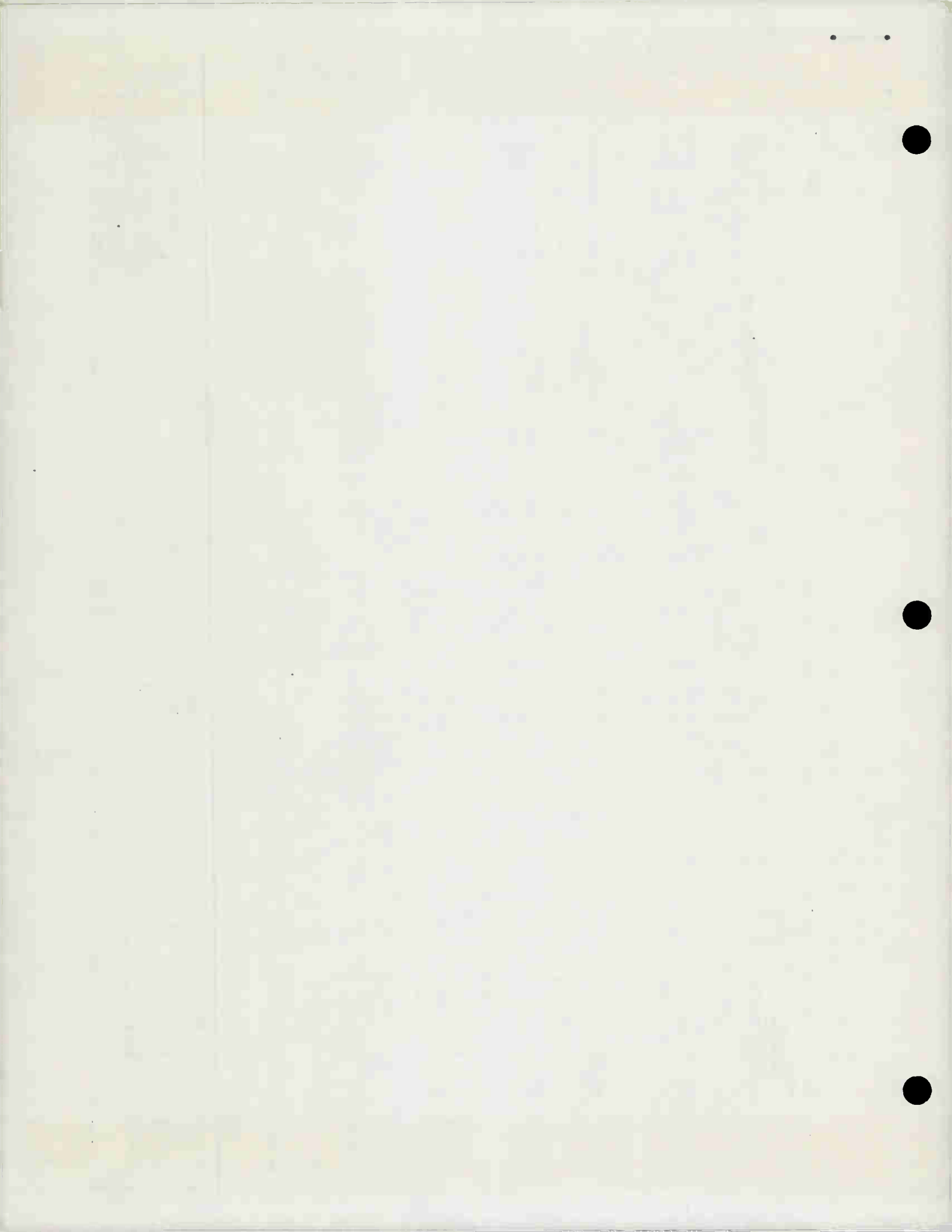
Dimensions: (W) EIA Standard 19" rack mount,
(H) 3½", (D) 10" overall

Weight: 12 pounds

Finish: McMartin Beige



DATE	REV. NUMBER	REV.	DESCRIPTION
			REV. OF ORIGINAL
M.P. Martin Industries, Inc.		omaha, nebraska	
BLOCK DIAGRAM - ACCU-FIVE MIXER			
AUDIO CENTRAL CONTROL UNIT			
<small>UNLESS OTHERWISE SPECIFIED, ALL METRIC DIMENSIONS ARE IN INCHES</small>			
DESIGNED BY	DATE	CHECKED BY	DATE
DR. Jensen	1-5-72		
DESIGNED BY	DATE	CHECKED BY	DATE
DR. Jensen	1-5-72		
DATE	REV.	BY	DATE
D-1525			



FIVE MIXER AUDIO CONTROL CONSOLE

monaural B-501
 stereo B-502
 dual channel B-503



DESCRIPTION

The McMartin B-500, 5-mixer consoles are designed for production and subcontrol room applications, or as the main control unit for smaller operations. Three models are available, the B-501 for monaural operation, the B-502 for stereo applications, and the B-503 for dual channel requirements.

A total of ten inputs, two per mixing channel are available. The standard configuration assigns low level microphone inputs to Mixer 1. The remaining four mixers accommodate balanced high-level inputs. Since all program circuits are on plug-in cards, full flexibility in mixer function assignments is possible by simple interchange of input module cards. Relay

control of speaker muting/warning light operation at a second location is possible. Spare contacts on the channel lever key switches and preselect input push-buttons permit extension of muting logic to all channels, if desired.

Each model represents a complete self-contained system with full program, audition, cue and monitoring capability. All external connections are made to barrier-type screw terminals on the rear of the cabinet.

The B-500 Series Consoles are finished in beige and black with wood-grain finish end panels.

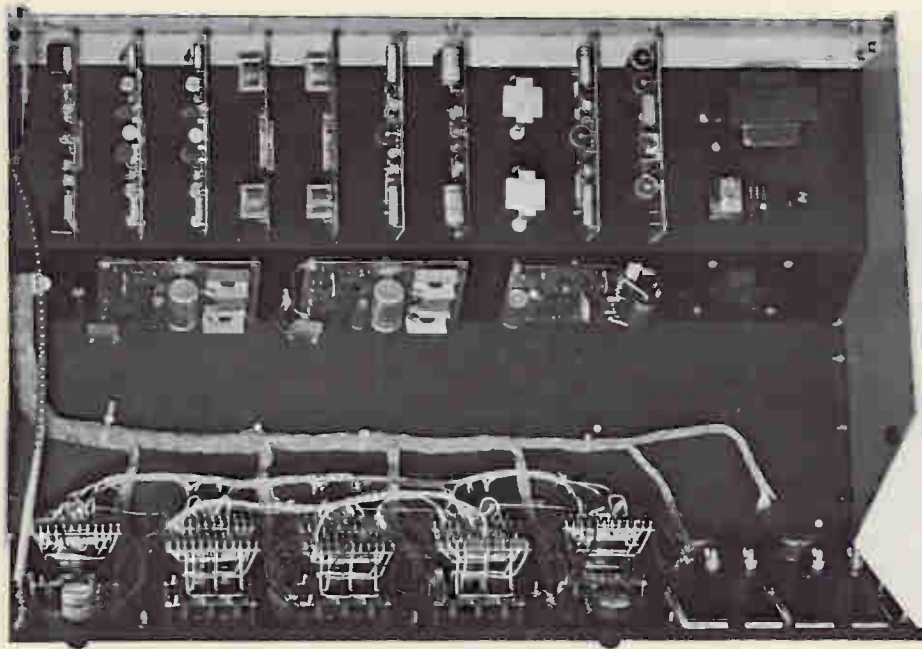
SPECIFICATIONS

PROGRAM CHANNEL(S):

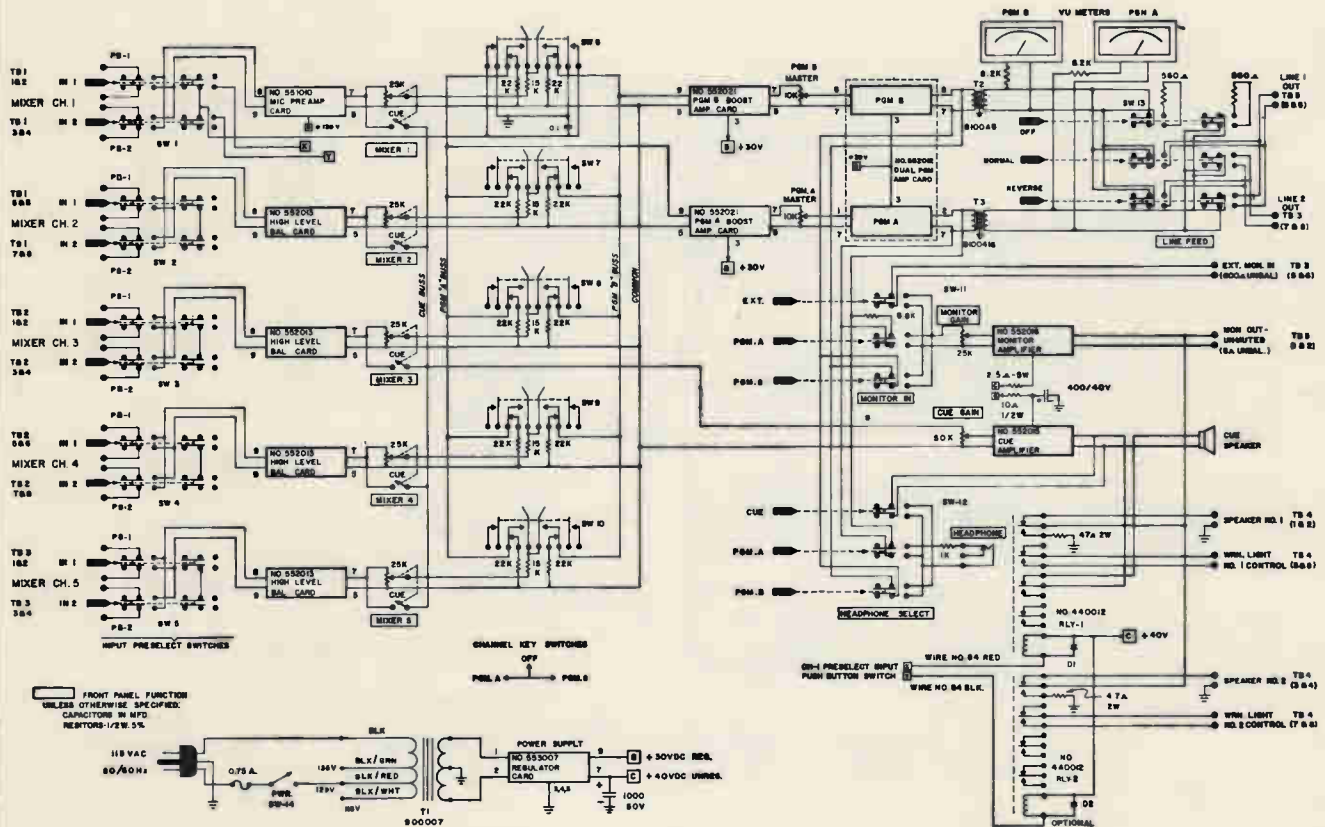
Frequency response ± 0.5 dB, 30-15,000 Hz
Harmonic distortion	..... 0.5% or less, 30-15,000 Hz @ +18 dBm output
S/N ratio	..... 72 dB or greater below +18 dBm output
Overall gain	..... 100, ± 2 , dB
Output level	..... +8 dBm for 0 VU meter reading, +18 dBm capability
Input level	..... Microphone channels: -60 dBm nom., -34 dBm max. High level channels: -15 dBm nom., +10 dBm max.
Impedances	..... Mic channels, 150 ohms balanced; High level channels, 600 ohms, balanced; Audition bus, 2500 ohms unbalanced; Program line output(s); 600 ohms balanced

MONITOR CHANNEL(S):

Frequency response ± 1.0 dB, 30-15,000 Hz
Harmonic distortion	..... 1.0% or less, 30-15,000 Hz @ 4 watts rms output
S/N ratio	..... 60 dB below 4 watts rms output (fed through program input).
Output level	..... 4 watts rms continuous; 8 watts, normal program content
Output Impedance	..... 8 ohms, unbalanced
TERMINATIONS	..... Barrier-type screw terminals at rear
POWER SUPPLY	..... 115 VAC, 50/60 Hz (230 VAC on special order).
DIMENSIONS	..... 27" width x 7" height x 16" depth
FINISH	..... Beige, matte black in control knob area, wood grain end panel trim



OPEN VIEW/B-502 stereo console



FUNCTIONAL BLOCK DIAGRAM/B-503 dual channel console

FIVE MIXER AUDIO CONTROL CONSOLE

monaural B-501
 stereo B-502
 dual channel B-503



DESCRIPTION

The McMartin B-500, 5-mixer consoles are designed for production and subcontrol room applications, or as the main control unit for smaller operations. Three models are available, the B-501 for monaural operation, the B-502 for stereo applications, and the B-503 for dual channel requirements.

A total of ten inputs, two per mixing channel are available. The standard configuration assigns low level microphone inputs to Mixer 1. The remaining four mixers accommodate balanced high-level inputs. Since all program circuits are on plug-in cards, full flexibility in mixer function assignments is possible by simple interchange of input module cards. Relay

control of speaker muting/warning light operation at a second location is possible. Spare contacts on the channel lever key switches and preselect input push-buttons permit extension of muting logic to all channels, if desired.

Each model represents a complete self-contained system with full program, audition, cue and monitoring capability. All external connections are made to barrier-type screw terminals on the rear of the cabinet.

The B-500 Series Consoles are finished in beige and black with wood-grain finish end panels.

SPECIFICATIONS

PROGRAM CHANNEL(S):

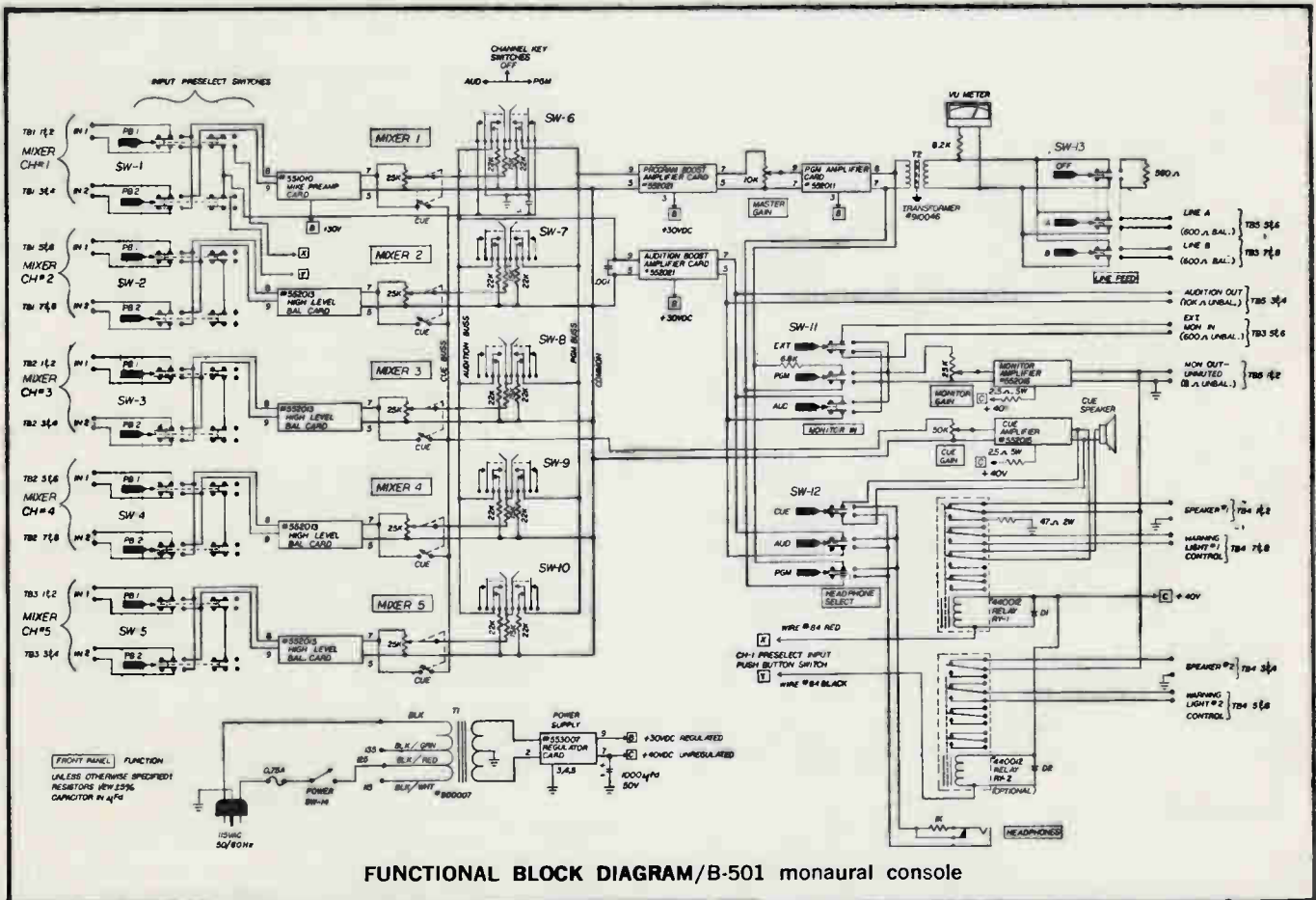
Frequency response ± 0.5 dB, 30-15,000 Hz
Harmonic distortion	..... 0.5% or less, 30-15,000 Hz @ +18 dBm output
S/N ratio	..... 72 dB or greater below +18 dBm output
Overall gain	..... 100, ± 2 , dB
Output level	..... +8 dBm for 0 VU meter reading. +18 dBm capability
Input level	..... Microphone channels: -60 dBm nom., -34 dBm max. High level channels: -15 dBm nom., +10 dBm max.
Impedances	..... Mic channels, 150 ohms balanced; High level channels, 600 ohms, balanced; Audition bus, 2500 ohms unbalanced; Program line output(s); 600 ohms balanced

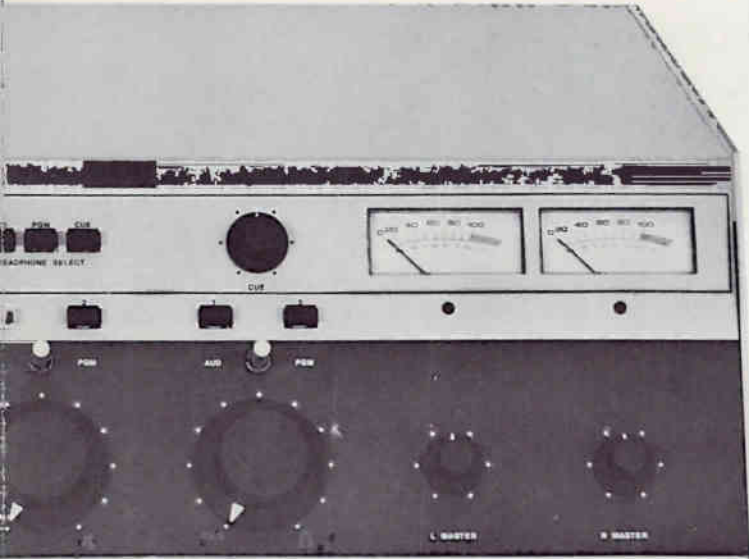
MONITOR CHANNEL(S):

Frequency response: ± 1.0 dB, 30-15,000 Hz
Harmonic distortion	..... 1.0% or less, 30-15,000 Hz @ 4 watts rms output
S/N ratio	..... 60 dB below 4 watts rms output (fed through program input).
Output level	..... 4 watts rms continuous; 8 watts, normal program content
Output impedance	..... 8 ohms, unbalanced
TERMINATIONS	..... Barrier-type screw terminals at rear
POWER SUPPLY	..... 115 VAC, 50/60 Hz (230 VAC on special order).
DIMENSIONS	..... 27" width x 7" height x 16" depth
FINISH	..... Beige, matte black in control knob area, wood grain end panel trim

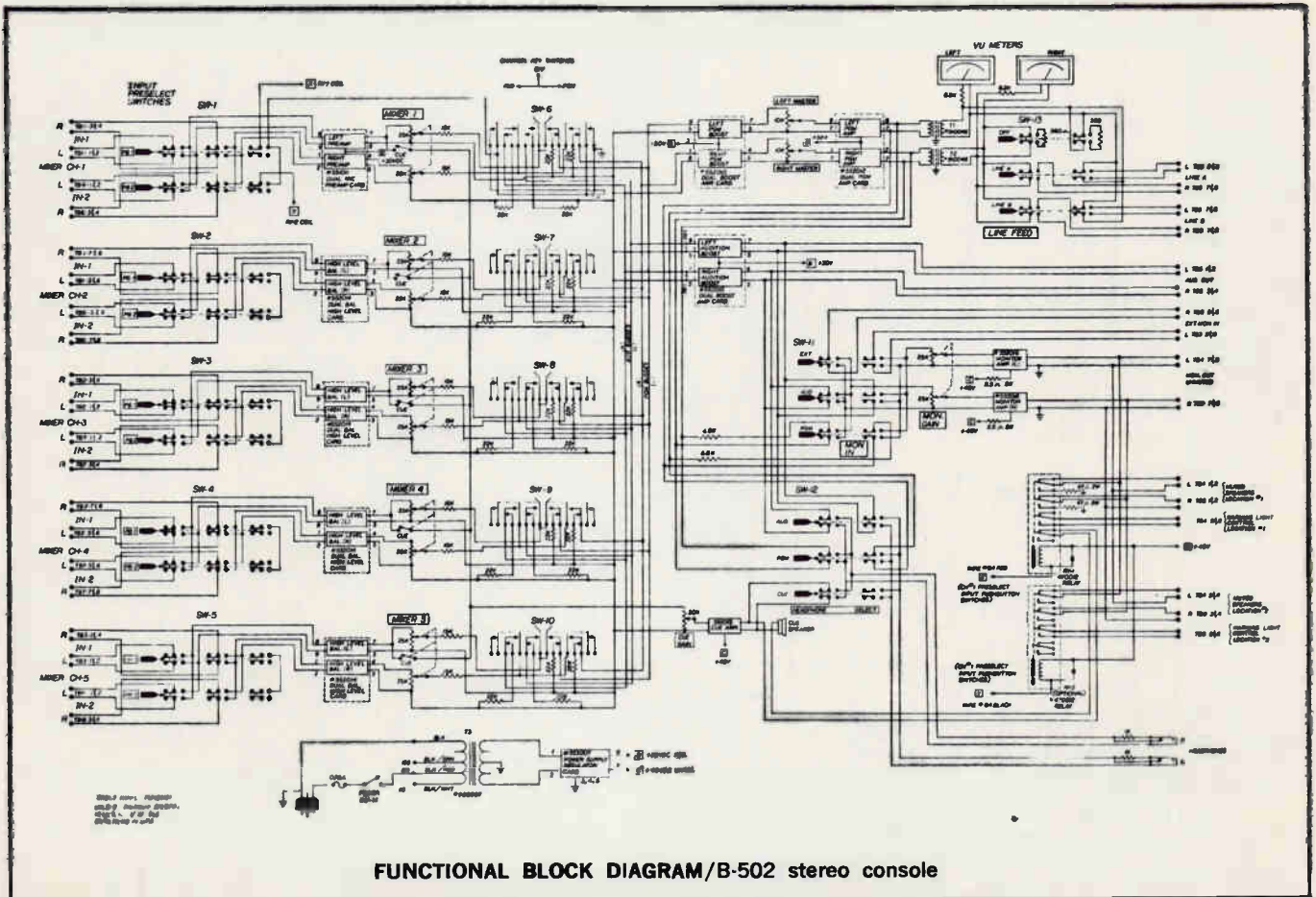


FRONT VIEW/B-

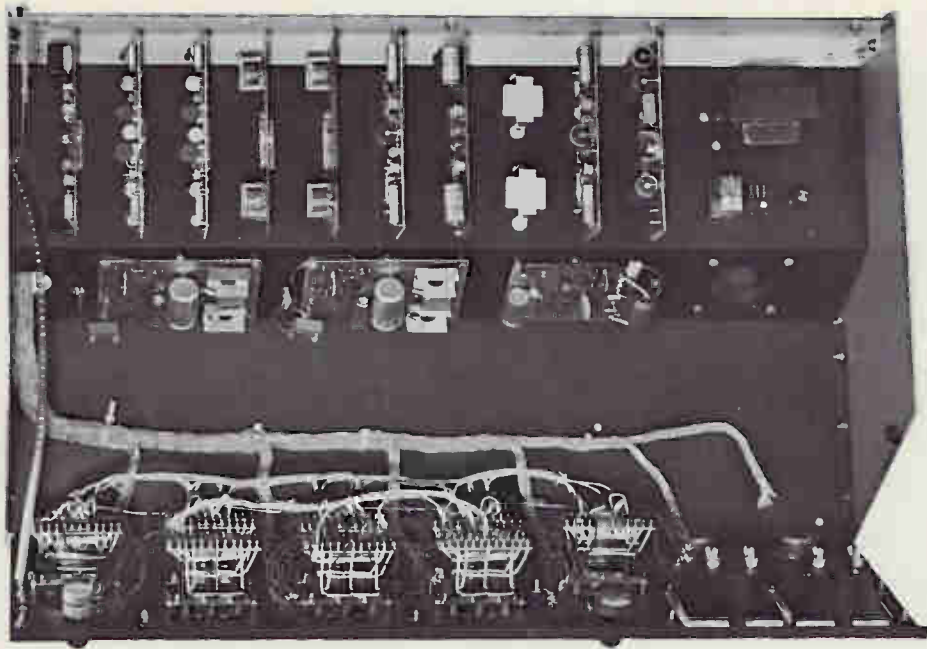




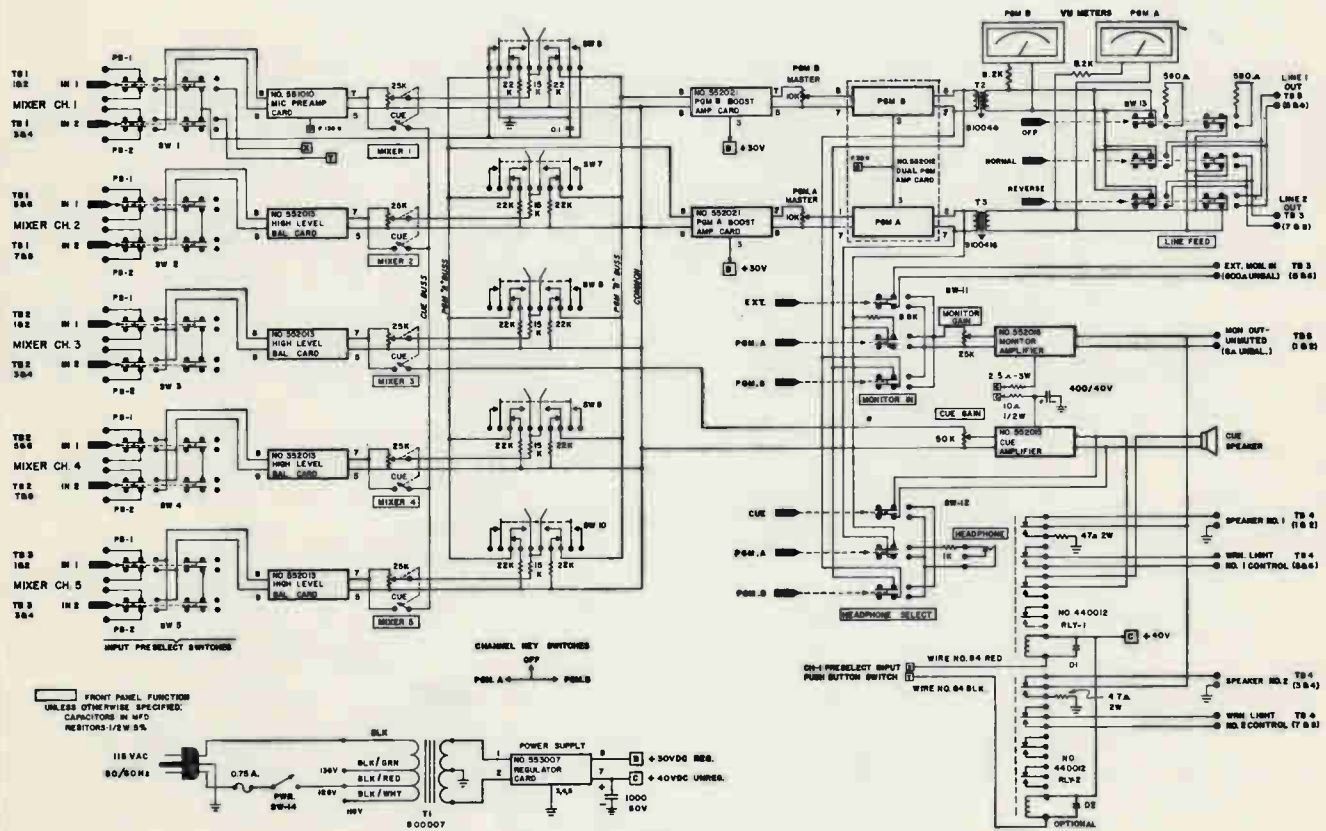
B-502 stereo console



FUNCTIONAL BLOCK DIAGRAM/B-502 stereo console



OPEN VIEW/B-502 stereo console



"8" MIXER AUDIO CONTROL CONSOLES

monaural B-801
stereo B-802
dual mono B-803
dual stereo B-802-S1
stereo mono B-802-S2



DESCRIPTION

Featuring plug-in modular design of all amplifiers and input channel devices for complete operational flexibility, the new McMartin audio consoles provide pushbutton selection of twenty-seven input sources controllable through eight mixing channels.

Standard models are the B-801 monaural, the B-803 dual-channel mono, the B-802 stereo, the B-802-S1 dual-channel stereo and the B-802-S2 stereo/mono "simulcast" version. All models are housed in identical cabinetry.

In their standard configurations, the first three mixing channels are equipped with low-level microphone preamplifiers. Mixers #4 through #7 accommodate high-level unbalanced input sources and Mixer #8 is a high level balanced input for network, auxiliary and four remote line input application. The B-802 models are equipped with module complement to deliver full stereo capability in both the program and monitor channels, throughout the entire console system.

All eight mixing channel module connectors are pre-wired to permit use of microphone or high level modules in any of the input channels. Spare switch contacts have been incorporated to permit extension

of speaker muting and warning light control logic to all eight inputs.

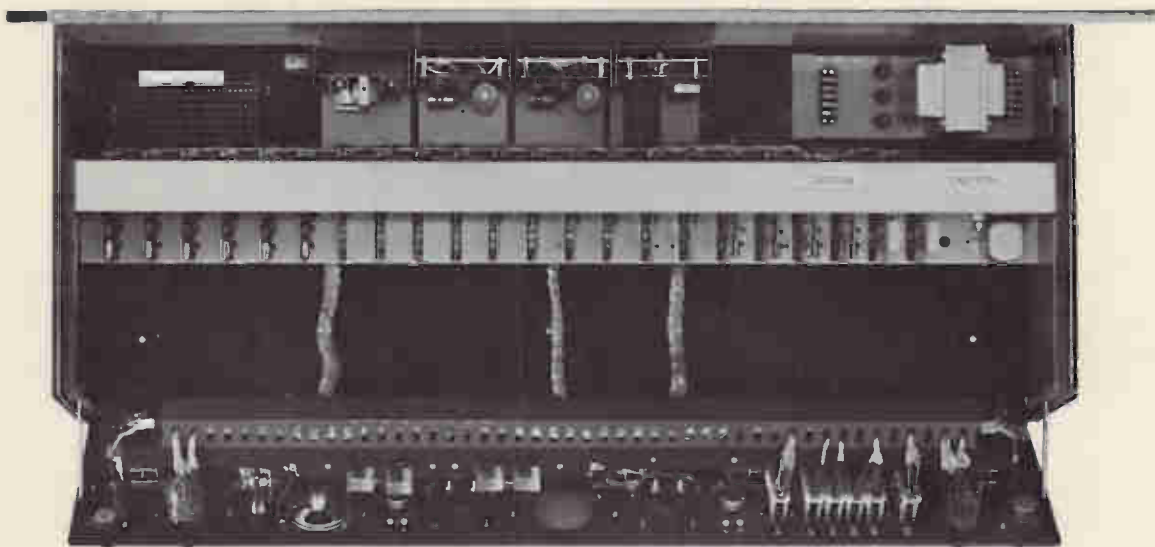
High-quality step-type attenuators with cue switches are used in all mixing channels. Complete cueing of all eight mixer inputs, with built-in panel speaker, is provided.

Monitor amplifier modules provide 8-watt rms output level for studio and house monitor speakers.

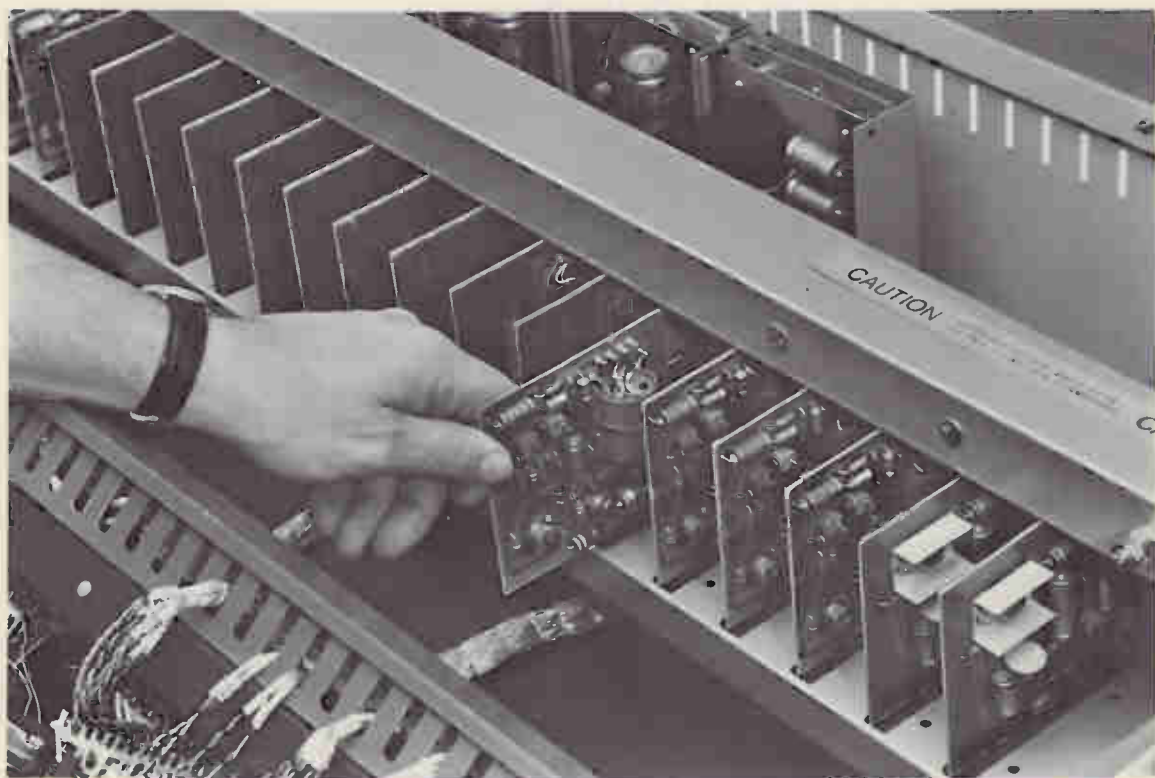
All models are equipped with selective intercom between the operating position and each of three studios or four remote lines plus a general paging location.

All solid-state devices are operated at conservative ratings and only highest grade components are used. Close attention has been paid to human engineering design with switches and controls positioned for logical, error-free operation.

The B-800 Series is handsomely styled and completely self-contained. With the interconnection of power source and external device cabling, these consoles are ready to deliver many years of highly-professional, reliable service.



OPEN VIEW/B-802 stereo console



TYPICAL PLUG-IN CAPABILITY/B-800 series

"8" MIXER AUDIO CONTROL CONSOLES

monaural B-801
stereo B-802
dual mono B-803
dual stereo B-802-S1
stereo mono B-802-S2



DESCRIPTION

Featuring plug-in modular design of all amplifiers and input channel devices for complete operational flexibility, the new McMartin audio consoles provide pushbutton selection of twenty-seven input sources controllable through eight mixing channels.

Standard models are the B-801 monaural, the B-803 dual-channel mono, the B-802 stereo, the B-802-S1 dual-channel stereo and the B-802-S2 stereo/mono "simulcast" version. All models are housed in identical cabinetry.

In their standard configurations, the first three mixing channels are equipped with low-level microphone preamplifiers. Mixers #4 through #7 accommodate high-level unbalanced input sources and Mixer #8 is a high level balanced input for network, auxiliary and four remote line input application. The B-802 models are equipped with module complement to deliver full stereo capability in both the program and monitor channels, throughout the entire console system.

All eight mixing channel module connectors are pre-wired to permit use of microphone or high level modules in any of the input channels. Spare switch contacts have been incorporated to permit extension

of speaker muting and warning light control logic to all eight inputs.

High-quality step-type attenuators with cue switches are used in all mixing channels. Complete cueing of all eight mixer inputs, with built-in panel speaker, is provided.

Monitor amplifier modules provide 8-watt rms output level for studio and house monitor speakers.

All models are equipped with selective intercom between the operating position and each of three studios or four remote lines plus a general paging location.

All solid-state devices are operated at conservative ratings and only highest grade components are used. Close attention has been paid to human engineering design with switches and controls positioned for logical, error-free operation.

The B-800 Series is handsomely styled and completely self-contained. With the interconnection of power source and external device cabling, these consoles are ready to deliver many years of highly-professional, reliable service.



FRONT VIEW/B-802 stereo console

SPECIFICATIONS

PROGRAM CHANNEL(S)

FREQUENCY RESPONSE: ± 0.5 dB, 20 to 20,000 Hertz

TOTAL HARMONIC DISTORTION 0.5% or less, 20 to 20,000 Hz @ +18 dBm output with -50 dBm signal fed to any low level input

S/N RATIO: 74 dB or greater below +18 dBm output. -50 dBm input to any low level input. Master and channel mixers adjusted for equal attenuation, totaling 34 dB

OVERALL GAIN .. 102, ± 2 , dBm

OUTPUT LEVEL .. +8 dBm nominal. +24 dBm maximum capability

INPUT LEVELS .. Channels 1-3: -60 dBm nom., -30 dBm max. Channels 4-7: -15 dBm nom., +10 dBm max.

INPUT IMPEDANCES ... Channels 1-3: 150 ohms balanced. (50/600 ohms by strapping). Channels 4-7: 600 ohms unbalanced. (150 ohms by strapping). Channel 8: 600 ohms balanced (150 ohms by strapping).

LINE OUTPUT SWITCHING B-801: Line 1, Line 2 and terminated OFF positions.
 B-802: Stereo (separate L and R outputs), Mono (L+R feeding Line 1) and terminated OFF positions.
 B-803: Channel A to Line 1/Channel B to Line 2, Reversal, and terminated OFF positions.

AUDITION BUSS

OUTPUT(S) B-801, B-802, B-802/S2: -10 dBm, 10K ohms, unbalanced. B-803: None. B-802/S1: +8 dBm nominal, +24 dBm maximum.

CROSSTALK B 801, below noise level (audition to program)
 B-802, below noise level (L to R to audition)
 B-803, below noise level (Channel A to Channel B)

MONITOR CHANNEL(S)

FREQUENCY RESPONSE: ± 0.5 dB, 20 to 20,000 Hertz

TOTAL HARMONIC DISTORTION 0.75% or less, 20 to 20,000 Hz @ 8 watts rms output

S/N RATIO: 70 dB below 8 watts (with ± 18 dBm at program line output(s).

OUTPUT LEVEL .. 8 watts rms

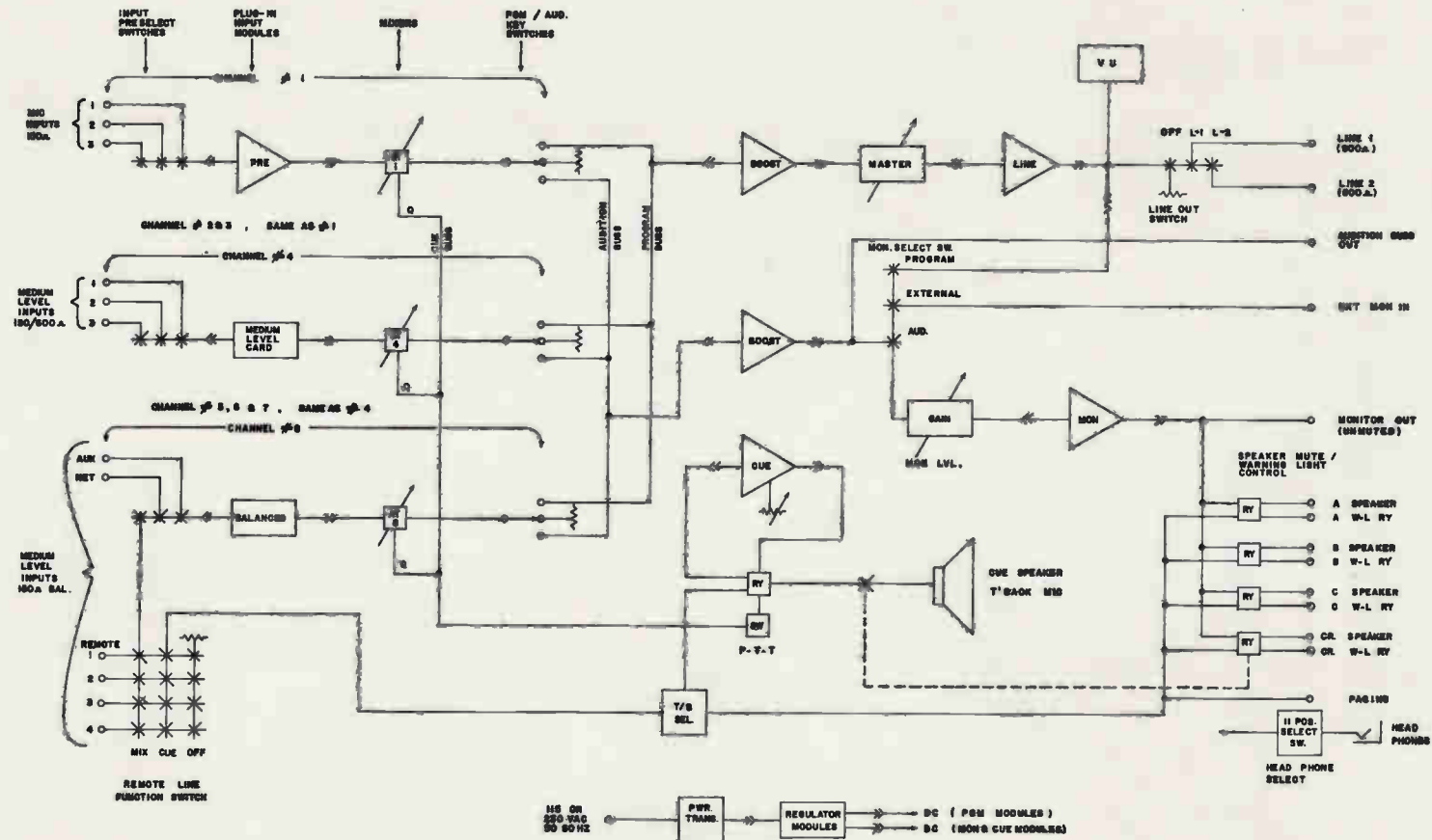
OUTPUT IMPEDANCE 8 to 16 ohms, unbalanced

POWER REQUIRED B-801 65 watts
 B-802 100 watts
 B-803 80 watts

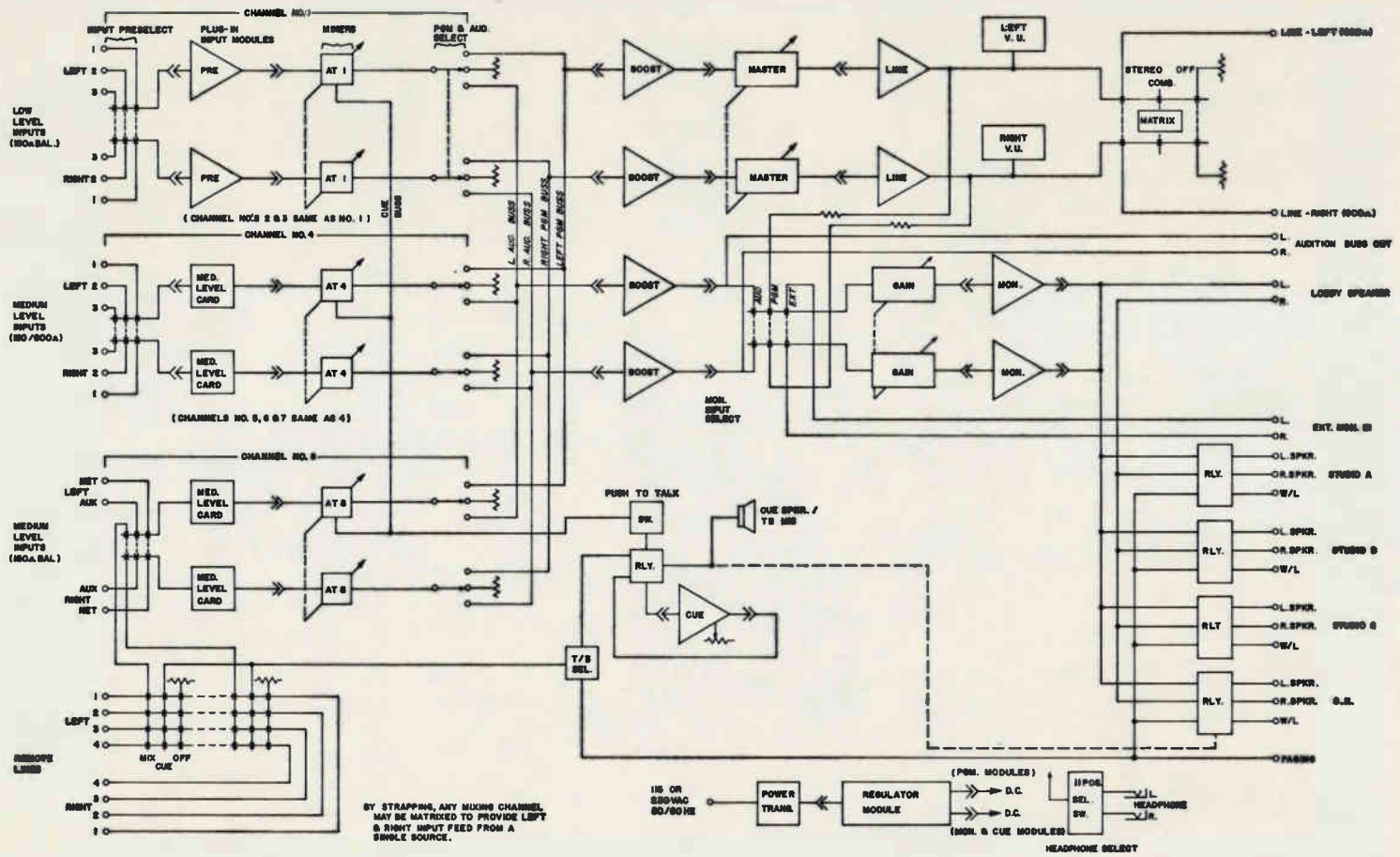
DIMENSIONS: ... 44 $\frac{7}{8}$ " wide, 18 $\frac{1}{4}$ " deep, 9 $\frac{3}{4}$ " high

FINISH Cabinet: Beige with wood trim end panels. Front Panel: Upper control area — beige, lower control area — black.

FUNCTIONAL BLOCK DIAGRAM/B-801 Monaural Console



FUNCTIONAL BLOCK DIAGRAM/B-802 stereo console

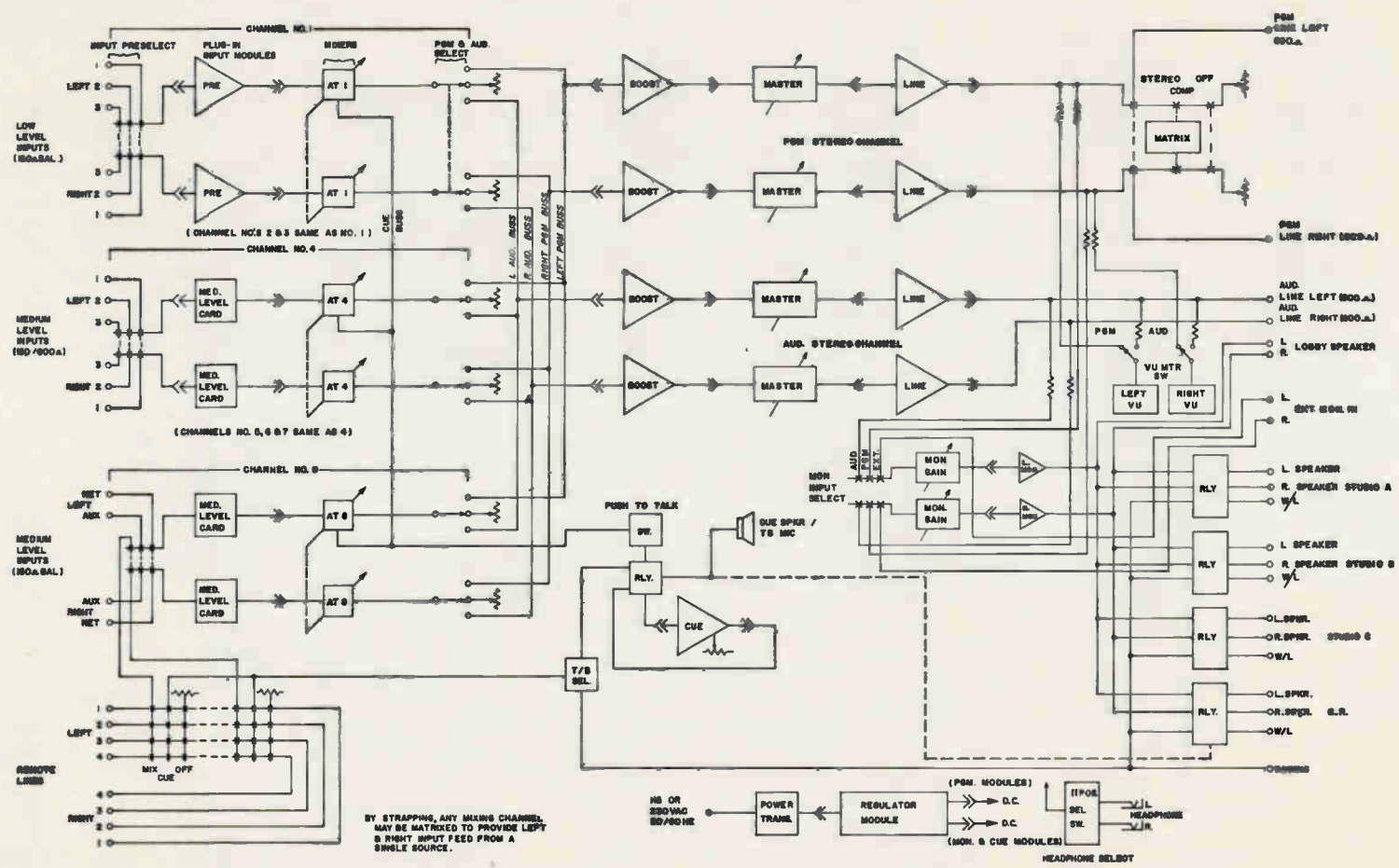


BY STRAPPING, ANY MIXING CHANNEL MAY BE MATRIXED TO PROVIDE LEFT & RIGHT INPUT FEED FROM A SINGLE SOURCE.

115 OR 220VAC 50/60HZ → POWER TRANS. → REGULATOR MODULE → (P.M. MODULES) → D.C. → H.P.C. SEL. SW. → HEADPHONE SELECT

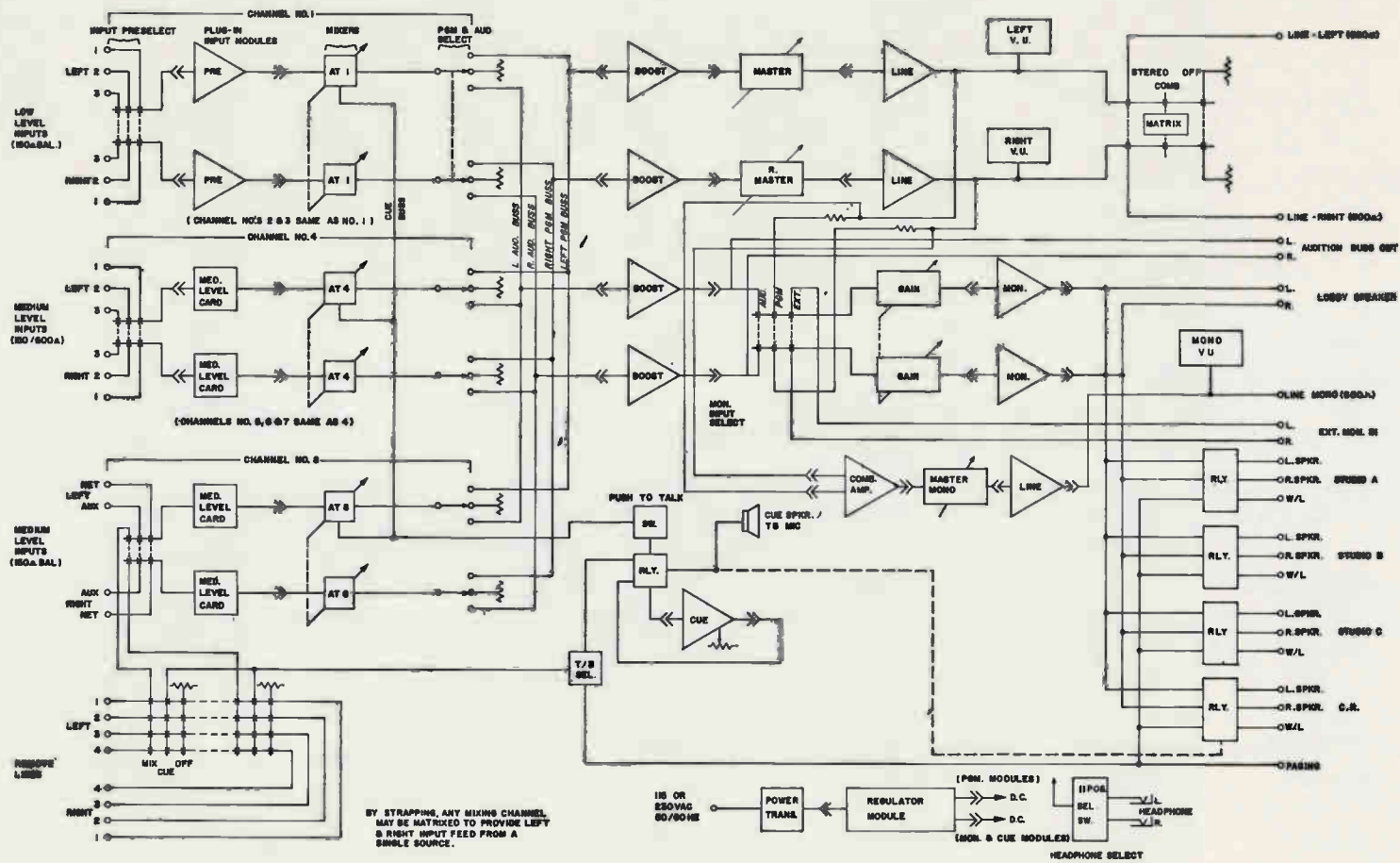
(MON. & CUE MODULES) → D.C. → H.P.C. SEL. SW. → HEADPHONE SELECT

FUNCTIONAL BLOCK DIAGRAM/B-802-S1 dual stereo console

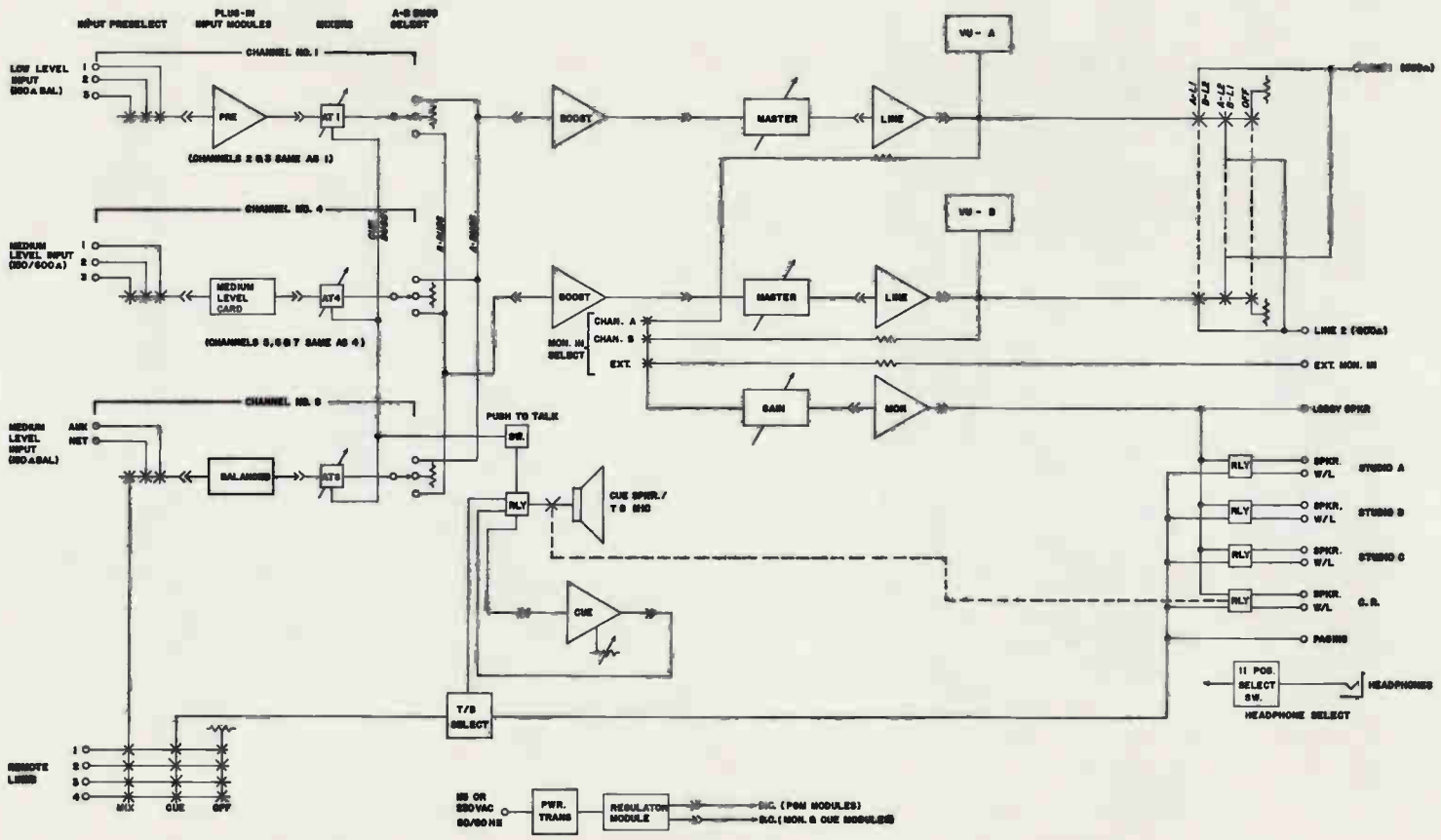


BY STRAPPING, ANY MIXING CHANNEL MAY BE MATRIXED TO PROVIDE LEFT & RIGHT INPUT FEED FROM A SINGLE SOURCE.

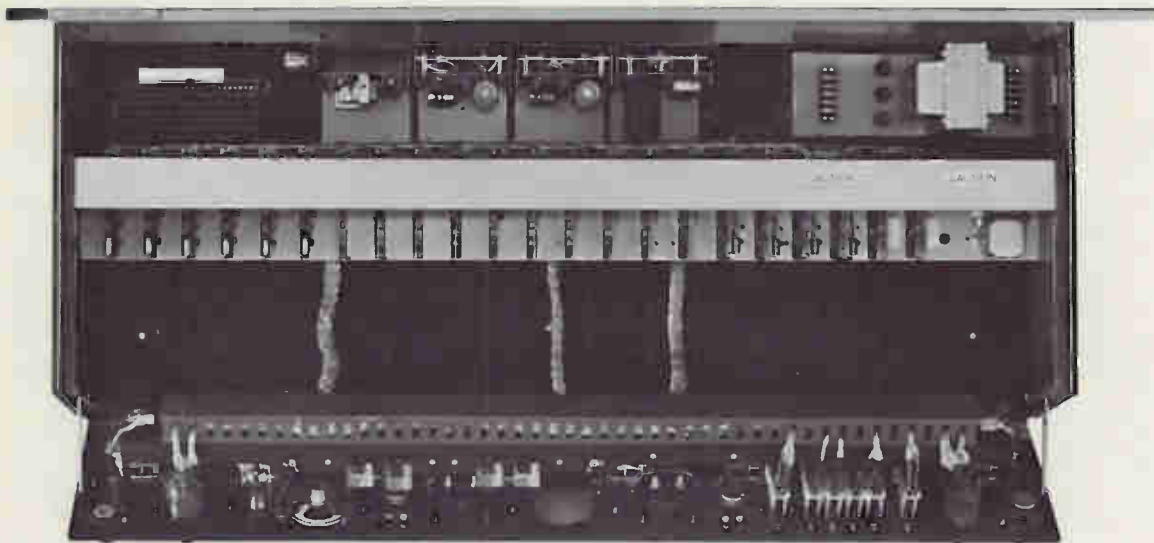
FUNCTIONAL BLOCK DIAGRAM/B-802-S2 stereo/monaural



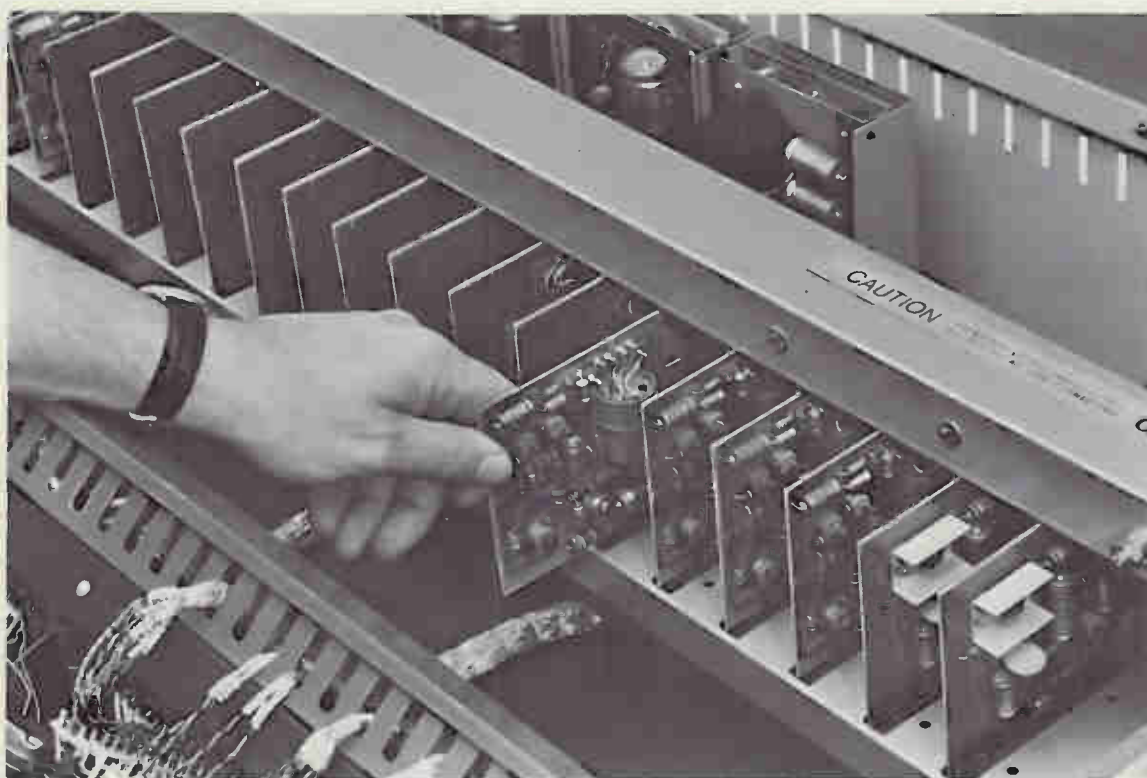
FUNCTIONAL BLOCK DIAGRAM/B-803 dual channel console



McMartin®



OPEN VIEW/B-802 stereo console



TYPICAL PLUG-IN CAPABILITY/B-800 series

MC MARTIN INDUSTRIES, INCORPORATED

TERMS AND CONDITIONS OF SALE

BROADCAST PRODUCTS

1. PRICES: MC MARTIN ENDEAVORS TO KEEP PUBLISHED PRICE LISTS CURRENT AND TO ADVISE CUSTOMERS OF PRICE CHANGES; HOWEVER, ALL PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE. PUBLISHED PRICES APPLY TO UNITED STATES SALES AND ARE BASED ON A CASH TRANSACTION, F.O.B., OMAHA, NEBRASKA. NO APPLICABLE FEDERAL, STATE OR LOCAL TAXES ARE INCLUDED.
2. TERMS OF PAYMENT: TERMS OF PAYMENT ARE CASH WITH ORDER. ORDERS ARE ACCEPTED FROM CUSTOMERS WITH AN ESTABLISHED CREDIT RATING WITH FULL PAYMENT DUE WITHIN 30 DAYS OF SHIPPING DATE. THE PROMPT PAYMENT DISCOUNT IS ONE PER CENT 10TH AND 25TH, NET 30. PAYMENTS MADE BEYOND THE 30-DAY PERIOD ARE SUBJECT TO A FINANCE CHARGE OF 1-1/2 PER CENT PER MONTH (EQUIVALENT TO AN ANNUAL PERCENTAGE RATE OF 18 PER CENT). CUSTOMERS WISHING TO ESTABLISH 30-DAY TERMS SHOULD FURNISH TRADE AND BANK REFERENCES AND CURRENT FINANCIAL INFORMATION FOR REVIEW BY MC MARTIN'S CREDIT DEPARTMENT. EQUIPMENT IS AVAILABLE THROUGH A LEASE/PURCHASE OPTION PLAN. CONTACT MC MARTIN'S SALES DEPARTMENT FOR DETAILS.
3. WARRANTY: MC MARTIN BROADCAST PRODUCTS ARE WARRANTED TO BE FREE FROM DEFECTS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR AFTER SHIPPING DATE WHEN SUBJECTED TO NORMAL USAGE OR SERVICE. ALL WARRANTIES ARE VOID, A) IF EQUIPMENT HAS BEEN ALTERED OR REPAIRED BY OTHERS WITHOUT MC MARTIN'S SPECIFIC PRIOR AUTHORIZATION, OR B) IF EQUIPMENT IS OPERATED UNDER ENVIRONMENTAL CONDITIONS OR CIRCUMSTANCES OTHER THAN THOSE SPECIFICALLY DESCRIBED IN MC MARTIN LITERATURE OR INSTRUCTION MANUALS.
4. REPAIR OR REPLACEMENT: IF A BROADCAST PRODUCT FAILS DURING THE APPLICABLE WARRANTY PERIOD, REPLACEMENT OR REPAIR PARTS WILL BE FURNISHED FREE OF CHARGE. ON REQUEST, AND AT THE DISCRETION OF MC MARTIN, THE CUSTOMER MAY BE REQUIRED TO RETURN THE DEFECTIVE PART OR EQUIPMENT TO MC MARTIN, F.O.B., OMAHA, NEBRASKA. PARTS OR EQUIPMENT MAY BE RETURNED ONLY WITH MC MARTIN'S PRIOR AUTHORIZATION AND MUST BE ACCOMPANIED BY RETURN AUTHORIZATION NUMBER ISSUED BY MC MARTIN'S CUSTOMER SERVICE DEPARTMENT. ALL RETURNED MERCHANDISE MUST BE SENT FREIGHT PREPAID AND WITH APPROPRIATE INSURANCE COVERAGE. FULL DETAILS OF THE CIRCUMSTANCES OF THE FAILURE OR MALFUNCTION SHOULD BE INCLUDED TO EXPEDITE REPAIR OR REPLACEMENT. REPAIRED EQUIPMENT WILL BE SHIPPED TO THE CUSTOMER, F.O.B., FACTORY.
5. OUT-OF-WARRANTY SERVICE: MC MARTIN'S LABORATORY AND TECHNICAL SERVICES ARE AVAILABLE FOR THE REPAIR AND/OR RECALIBRATION OF BROADCAST PRODUCTS OPERATED BEYOND THE WARRANTY PERIOD. TIME REQUIRED FOR RECALIBRATION/REPAIR VARIES WITH EQUIPMENT TYPE AND CURRENT PLANT WORK LOAD. CONTACT MC MARTIN'S CUSTOMER SERVICE MANAGER FOR CURRENT REPAIR TIMES AND RECALIBRATION, LABOR AND PARTS RATES. MC MARTIN WARRANTS RECALIBRATION AND PARTS UTILIZED IN THE REPAIR OF EQUIPMENT FOR A PERIOD OF 90 DAYS BEYOND THE SHIPPING DATE OF SAID RECALIBRATION OR REPAIR. PRIOR RETURN AUTHORIZATION IS REQUIRED FOR EQUIPMENT BEING RETURNED FOR RECALIBRATION OR REPAIR AND ALL TRANSPORTATION AND INSURANCE CHARGES TO AND FROM THE FACTORY ARE TO BE PAID BY THE CUSTOMER.

6. RETURNS: MERCHANDISE PRODUCED AND SHIPPED IN GOOD FAITH IS NOT RETURNABLE FOR CREDIT. MERCHANDISE MAY BE EXCHANGED IF MC MARTIN INDUSTRIES DETERMINES THAT CIRCUMSTANCES WARRANT SUCH CONCESSION. MERCHANDISE FOR EXCHANGE MUST BE OF CURRENT DESIGN AND IN UNOPENED FACTORY CARTONS AND IS SUBJECT TO A 20 PER CENT RESTOCKING CHARGE, PLUS A \$30.00 RETUNING CHARGE FOR PRODUCTS WITH TUNED RF STAGES.
7. PRODUCT CHANGES: MC MARTIN RESERVES THE RIGHT WITHOUT ADVANCE NOTICE TO MAKE ENGINEERING AND PRODUCTION CHANGES INCLUDING SUBSTITUTION OF VENDOR SOURCES FOR COMPONENTS WHICH MAY MODIFY THE DESIGN OR SPECIFICATIONS OF ITS BROADCAST PRODUCTS, PROVIDED SAID MODIFICATION WILL NOT MATERIALLY EFFECT THE PERFORMANCE OF THE PRODUCT.
8. GENERAL:
 - A. THE PREFERRED SHIPPING METHOD SHOULD BE SPECIFIED IN YOUR ORDER. WHEN NOT SPECIFIED, SHIPMENT WILL BE MADE BY A COMMON CARRIER SELECTED BY MC MARTIN. GENERALLY, SHIPMENTS WILL BE MADE WITH TRANSPORTATION CHARGES COLLECT.
 - B. CLAIMS FOR DAMAGE INCURRED IN TRANSIT MUST BE MADE BY THE CUSTOMER DIRECTLY WITH THE CARRIER, EXCEPT FOR SHIPMENTS HANDLED BY UNITED PARCEL SERVICE (UPS). UPS CLAIMS MUST BE FILED AT THE POINT OF ORIGIN. IN EITHER CASE, MC MARTIN MUST BE IMMEDIATELY NOTIFIED OF DAMAGE DETAILS, DATES AND MC MARTIN INVOICE NUMBERS INVOLVED.
 - C. IN NO EVENT IS MC MARTIN LIABLE FOR CONSEQUENTIAL DAMAGES RESULTING FROM LATE OR NON-DELIVERY, OR MALFUNCTION OR FAILURE OF ITS BROADCAST PRODUCTS.

MCMARTIN INDUSTRIES, INC.

CHANGES TO BROADCAST PRICE LIST

ADD TO PAGE B-72-AC1:

OPTIONAL STEP ATTENUATORS FOR FIVE (5) MIXERS ON B-500 SERIES CONSOLES:

B-501 AND B-503 (MONAURAL)

ADD: \$225.00

B-502 (STEREO)

ADD: \$350.00

ALLOW 30 TO 45 DAYS DELIVERY.

ADD TO PAGE B-72-AC3:

B-802-S3

B-802 STEREO CONSOLE PLUS FEATURES OF S1 AND S2
MODELS.

\$3,850.00

ALLOW 30 TO 45 DAYS DELIVERY.

DELETE FROM PAGE B-72-M1:

TBM-0380

(REPLACED BY STE-1 IN TBM-1000B)

TBM-3500A

(REPLACED BY TBM-3700 OR TBM-4500A)

ADD TO PAGE B-72-M3:

TBM-8800

AM-RF AMPLIFIER WITH AGC (AVAILABLE MARCH 1973)

\$485.00

QUICK REFERENCE TABLE — MCMARTIN PROFESSIONAL AUDIO CONSOLES

<u>FEATURE</u>	<u>ACCU-FIVE</u>	<u>B-500 SERIES</u>	<u>B-800 SERIES</u>
MIXER CHANNELS	5	5	8
INPUTS	13	10	27
MONAURAL CHANNELS	PROGRAM	AUDITION/PROGRAM	AUDITION/PROGRAM
DUAL MONAURAL CHANNELS	NOT AVAILABLE	PROGRAM A/PROGRAM B	PROGRAM A/PROGRAM B
STEREO CHANNELS	NOT AVAILABLE	AUDITION/PROGRAM	AUDITION/PROGRAM
STEREO/MONAURAL CHANNELS	NOT AVAILABLE	NOT AVAILABLE	AUDITION/PROGRAM/ MONAURAL
DUAL STEREO CHANNELS	NOT AVAILABLE	NOT AVAILABLE	PROGRAM/PROGRAM
DUAL STEREO/MONAURAL	NOT AVAILABLE	NOT AVAILABLE	PROGRAM/PROGRAM/ MONAURAL
CUE AMPLIFIER/SPEAKER	PROVIDED	PROVIDED	PROVIDED
CUE INPUT	ALL CHANNELS	ALL CHANNELS	ALL CHANNELS
PROGRAM FREQUENCY	± 1.0 DB 30-15,000	± 0.5 DB 30-15,000	± 0.5 DB 20-20,000
PROGRAM S/N	60 DB BELOW ± 18	72 DB BELOW ± 18	74 DB BELOW ± 18
GAIN	100 ± 2 DBM	100 ± 2 DBM	102 ± 2 DBM
OUTPUT LEVEL	± 8 FOR OVU; ± 18 MAXIMUM	± 8 FOR OVU; ± 18 MAXIMUM	± 8 FOR OVU; ± 24 DBM MAXIMUM
CROSSTALK	BELOW SYSTEM NOISE	BELOW SYSTEM NOISE	BELOW SYSTEM NOISE
MONITOR CHANNEL FREQUENCY	± 1.5 DB 50-15,000	± 1.0 DB 30-15,000	± 0.5 DB 20-20,000
MONITOR AUDIO	4 WATTS RMS	4 WATTS RMS	8 WATTS RMS
MONITOR NOISE	50 DB BELOW 4 WATTS	60 DB BELOW 4 WATTS	70 DB BELOW 8 WATTS
INPUT LEVELS	LOW -60 DBM NOMINAL -35 DBM MAXIMUM	-60 DBM NOMINAL -34 DBM MAXIMUM	-60 DBM NOMINAL -30 DBM MAXIMUM
	HIGH -20 DBM NOMINAL ± 5 DBM MAXIMUM	-15 NOMINAL ± 10 DBM MAXIMUM	-15 DBM NOMINAL ± 10 DBM MAXIMUM
ATTENUATORS	MOLDED COMPOSITION	MOLDED COMPOSITION; STEP TYPE OPTIONAL	STEP TYPE
TALK BACK AMPLIFIER	PROVIDED	NOT AVAILABLE	PROVIDED
PRINTED CIRCUIT BOARDS	FIX WIRED	PROGRAM/AUDITION CHANNELS PLUG-IN; MONITOR AND CUE AMPS FIX WIRED	ALL PLUG-IN
STANDARD CONFIGURATION	1-MIC (ONE OF 2) 2-MIC (ONE OF 2) 3-HI/LO (ONE OF 2) 4-HI/LO (ONE OF 2) 5-HI/LO (ONE OF 5) 6- 7- 8-	MIC (ONE OF 2) HI BAL (ONE OF 2) HI BAL (ONE OF 2) HI BAL (ONE OF 2) HI BAL (ONE OF 2)	MIC (ONE OF 3) MIC (ONE OF 3) MIC (ONE OF 3) HI UNBAL (ONE OF 3) HI UNBAL (ONE OF 3) HI UNBAL (ONE OF 3) HI UNBAL (ONE OF 3) HI UNBAL (ONE OF 3) HI BAL (ONE OF 6)
	(ALL INPUTS ON B-500 AND B-800 CONSOLES ARE PLUG-IN AND INTER- CHANGEABLE -- ANY MIXER MAY BE LOW OR HIGH LEVEL BY SELECTION OF PROPER PLUG-IN CARD -- SEE CONSOLE PRICE LIST.)		
INPUT TERMINATION	1 AND 2 CANNON 3 - 5 SCREW TERMINALS	ALL SCREW TERMINALS	ALL SOLDER TYPE
OUTPUT TERMINATION	SCREW TERMINALS	SCREW TERMINALS	ALL SOLDER TYPE
MUTING	ONE RELAY PROVIDED	ONE RELAY PROVIDED; ONE OPTIONAL	FOUR RELAYS PROVIDED
POWER SUPPLY	120/220VAC, 50-60 HZ	120/220VAC, 50-60 HZ	120/220VAC, 50-60 HZ
SIZE	19"W, 3.50"H, 10"D	27"W, 7"H, 16"D	44.75"W, 9.75"H, 18.25"D

MC MARTIN INDUSTRIES, INCORPORATED

BROADCAST EQUIPMENT PRICE LIST

B-500 AND ACCU-FIVE 5-MIXER AUDIO CONSOLES

<u>MODEL</u>	<u>DESCRIPTION</u>	<u>PRICE</u>
B-501	MONAURAL, 5-MIXER CONSOLE. COMPLETE WITH (1) CUE AMPLIFIER, (1) MONITOR AMPLIFIER AND FOLLOWING PLUG-IN CARDS: (1) MIC PREAMP, (4) HI-BAL CARDS, (2) BOOSTER AMPS, (1) PROGRAM AMP AND (1) POWER SUPPLY REGULATOR. INCLUDES (1) SPEAKER MUTING RELAY.	\$ 750.00
B-502	STEREO, 5-MIXER CONSOLE. COMPLETE WITH (1) CUE AMPLIFIER, (2) MONITOR AMPLIFIERS AND FOLLOWING PLUG-IN CARDS: (1) DUAL MIC PREAMP, (4) DUAL HI-BAL CARDS, (1) DUAL BOOSTER AMP, (1) DUAL PROGRAM AMP AND (1) POWER SUPPLY REGULATOR. INCLUDES (1) SPEAKER MUTING RELAY.	1,050.00
B-503	DUAL CHANNEL, 5-MIXER CONSOLE. COMPLETE WITH (1) CUE AMP, (1) MONITOR AMP AND FOLLOWING PLUG-IN CARDS: (1) MIC PREAMP, (4) HI-BAL CARDS, (2) BOOSTER AMPS, (2) POWER AMPS AND (1) POWER SUPPLY REGULATOR. INCLUDES (1) SPEAKER MUTING RELAY.	950.00
<u>B-500 ATTENUATOR WARRANTY</u>		
MC MARTIN B-500 SERIES CONSOLES USE ALLEN BRADLEY MOLDED COMPOSITION TRIPLE WIPER ATTENUATORS WHICH TYPICALLY WILL OPERATE IN EXCESS OF FIVE (5) MILLION TIMES WITHOUT DEGRADATION OF ELECTRICAL OR MECHANICAL SPECIFICATIONS. THE CONTROLS ARE GUARANTEED FOR A PERIOD OF FIVE (5) YEARS FROM THE DATE OF DELIVERY AND WILL BE REPLACED FREE OF CHARGE. REPLACEMENTS WILL BE SENT BY RETURN MAIL AT NO CHARGE. PLEASE SEND THE CONSOLE SERIAL NUMBER, MODEL NUMBER AND REQUIRED NUMBER OF CONTROLS.		
ACCU-FIVE	FIVE INPUT RACK MOUNT REMOTE AND CATV MIXER - COMPLETE	495.00

B-500 CONSOLE ACCESSORY PLUG-IN MODULES

<u>MODEL</u>	<u>DESCRIPTION</u>	<u>PRICE</u>
<u>PLUG-IN CARDS</u>		
5MP1	MICROPHONE PREAMPLIFIER (B-501 AND B-503) (551010)	\$ 22.00
5MP2	DUAL MIC PREAMP (B-502) (551011)	43.50
5BA1	BOOSTER AMP (B-501 AND B-503) (552021)	12.00
5BA2	DUAL BOOSTER AMP (B-502) (552010)	16.00
5PG1	PROGRAM AMP (B-501 AND B-503) (552011)	15.00
5PG2	DUAL PROGRAM AMP (B-502) (552012)	23.00
5BH1	HIGH LEVEL BALANCED (B-501 AND B-503) (552013)	19.50
5BH2	DUAL HIGH LEVEL BALANCED (B-502) (552014)	37.50
5PS1	POWER SUPPLY REGULATOR (ALL MODELS) (553007)	16.00
5EP1	RIAA EQUALIZED PHONO PREAMPLIFIER (B-501 AND B-503) (551020)	22.00
5EP2	DUAL RIAA EQUALIZED PHONO PREAMPLIFIER (B-502) (551021)	43.50
<u>FIXED CARDS</u>		
5QA1	CUE AMPLIFIER (ALL MODELS) (552015)	18.00
5MA1	MONITOR AMPLIFIER (ALL MODELS) (552016)	23.00
<u>OPTIONAL</u>		
5RY1	SPEAKER MUTING RELAY (ALL MODELS) (550022)	10.00

B-800 8-MIXER AUDIO CONSOLES

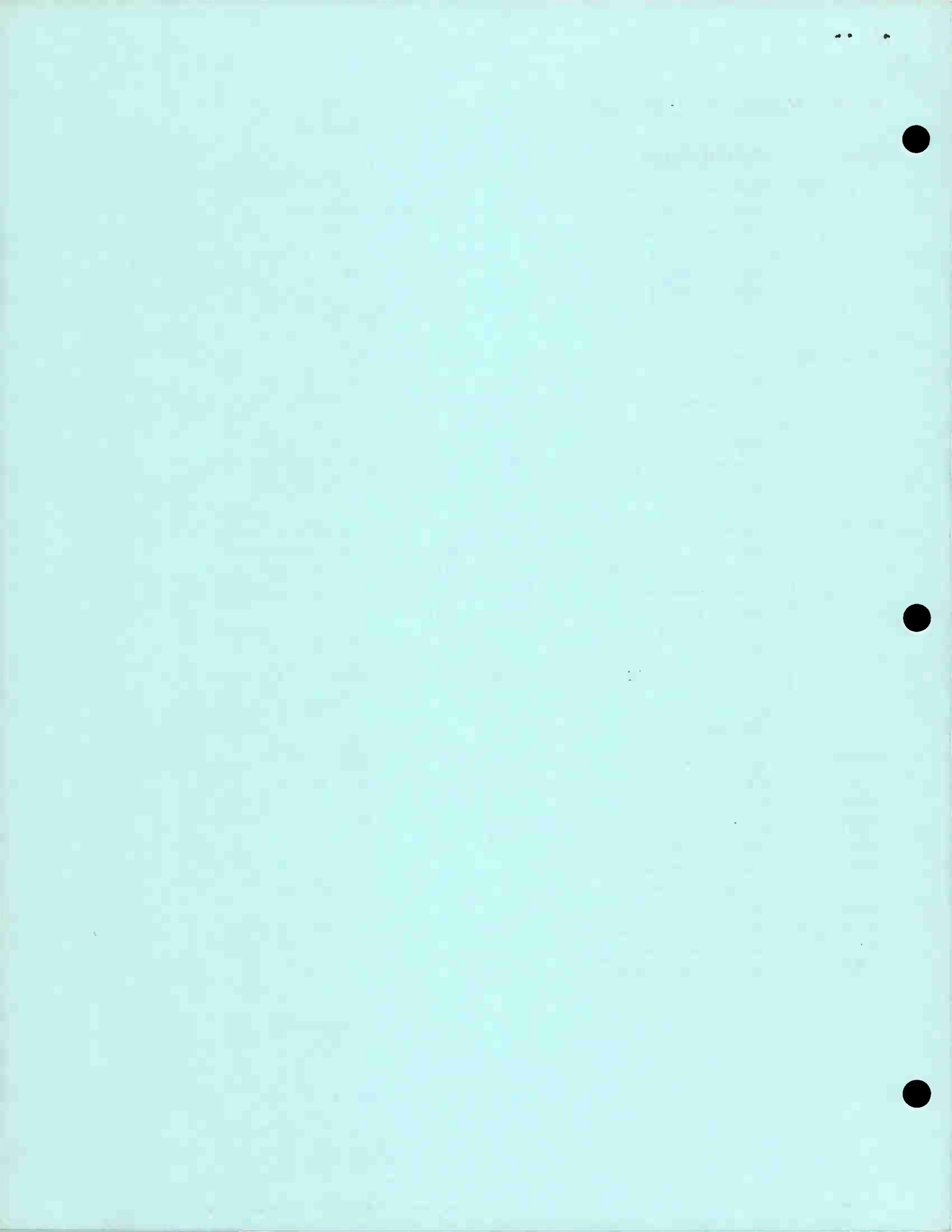
<u>MODEL</u>	<u>DESCRIPTION</u>	<u>PRICE</u>
B-801	MONAURAL, 8-MIXER CONSOLE. COMPLETE WITH FOLLOWING PLUG-IN MODULES: (3) MICROPHONE PREAMPS, (2) BOOSTER AMPS, (1) PROGRAM AMP, (1) CUE/TALKBACK AMP, (1) 8-WATT MONITOR AMP, (4) HIGH-LEVEL UNBALANCED INPUT, (1) HIGH-LEVEL BALANCED INPUT, (1) POWER SUPPLY REGULATOR, AND (2) MODULE EXTENDER CARDS.	\$2,350.00
B-802	STEREO, 8-MIXER CONSOLE. COMPLETE WITH FOLLOWING PLUG-IN MODULES: (6) MICROPHONE PREAMPS, (4) BOOSTER AMPS, (2) PROGRAM AMPS, (1) CUE/TALKBACK AMP, (2) 8-WATT MONITOR AMPS, (8) HIGH-LEVEL UNBALANCED INPUT, (2) HIGH-LEVEL BALANCED INPUT, (1) POWER SUPPLY REGULATOR, AND (2) MODULE EXTENDER CARDS.	3,200.00

B-800 8-MIXER AUDIO CONSOLES (CONT.)

<u>MODEL</u>	<u>DESCRIPTION</u>	<u>PRICE</u>
B-802-S1	INCLUDES STANDARD MODULE CONTENT SHOWN FOR B-802 IN "B-800 SERIES CONSOLE PRICE LIST", PLUS TWO (2) PLUG-IN PROGRAM AMPLIFIER MODULES TO PROVIDE BALANCED, 600 OHM STEREO, LINE LEVEL OUTPUTS FROM THE AUDITION CHANNELS. INCLUDES SEPARATE INTERNAL AUDITION CHANNEL MASTER GAIN CONTROLS AND FRONT-PANEL VU METER SELECTOR SWITCH TO PERMIT PGM/AUD OUTPUT LEVEL METERING. (PROVIDES FOUR (4) CHANNEL OUTPUT)	\$3,450.00
B-802-S2	INCLUDES STANDARD MODULE CONTENT SHOWN FOR B-802 IN "B-800 SERIES CONSOLE PRICE LIST", PLUS PLUG-IN PROGRAM AMPLIFIER MODULE AND PLUG-IN COMBINING AMPLIFIER STAGE TO PROVIDE CONTINUOUS BALANCED, 600 OHM LINE LEVEL MONAURAL OUTPUT FOR "SIMULCAST" OPERATION. A THIRD, PANEL-MOUNTED, VU METER IS ADDED TO MONITOR MONAURAL OUTPUT. AN INTERNAL TRIM CONTROL PERMITS INDEPENDENT ADJUSTMENT OF MONAURAL OUTPUT LEVEL.	3,400.00
B-803	DUAL CHANNEL, 8-MIXER CONSOLE. COMPLETE WITH FOLLOWING PLUG-IN MODULES: (3) MICROPHONE PREAMPS, (2) BOOSTER AMPS, (2) PROGRAM AMPS, (1) CUE/TALKBACK AMP, (1) 8-WATT MONITOR AMP, (4) HIGH-LEVEL UNBALANCED INPUT, (1) HIGH-LEVEL BALANCED INPUT, (1) POWER SUPPLY REGULATOR, AND (2) MODULE EXTENDER CARDS.	2,650.00

B-800 CONSOLE ACCESSORY PLUG-IN MODULES

<u>MODEL</u>	<u>DESCRIPTION</u>	<u>PRICE</u>
8MP1	MICROPHONE PREAMPLIFIER (551001)	\$ 25.75
8EP1	RIAA EQUALIZED PHONO PREAMPLIFIER (551008)	25.75
8BA1	BOOSTER AMPLIFIER (552004)	25.75
8PG1	PROGRAM AMPLIFIER (552003)	25.00
8MA1	MONITOR AMPLIFIER (552002)	80.00
8QA1	CUE/TALKBACK AMPLIFIER (552001)	60.00
8PS1	POWER SUPPLY REGULATOR (553001)	40.00
8BH1	HIGH-LEVEL BALANCED INPUT (550001)	20.00
8UH1	HIGH-LEVEL UNBALANCED INPUT (550002)	1.50
8XC10	MODULE EXTENDER CARD (10-PIN) (555001)	3.00
8XC15	MODULE EXTENDER CARD (15-PIN) (555005)	5.00
8CA1	COMBINING AMPLIFIER (552055)	20.00



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