

AMPRO

BROADCAST EQUIPMENT



OPERATION
and
MAINTENANCE MANUAL
for

AC-6, AC-8, AC-10, AC-12

LC-6, LC-8, LC-10, LC-12

MONAURAL, DUAL MONAURAL, STEREO,
DUAL STEREO, and STEREO MONAURAL SIMULCAST



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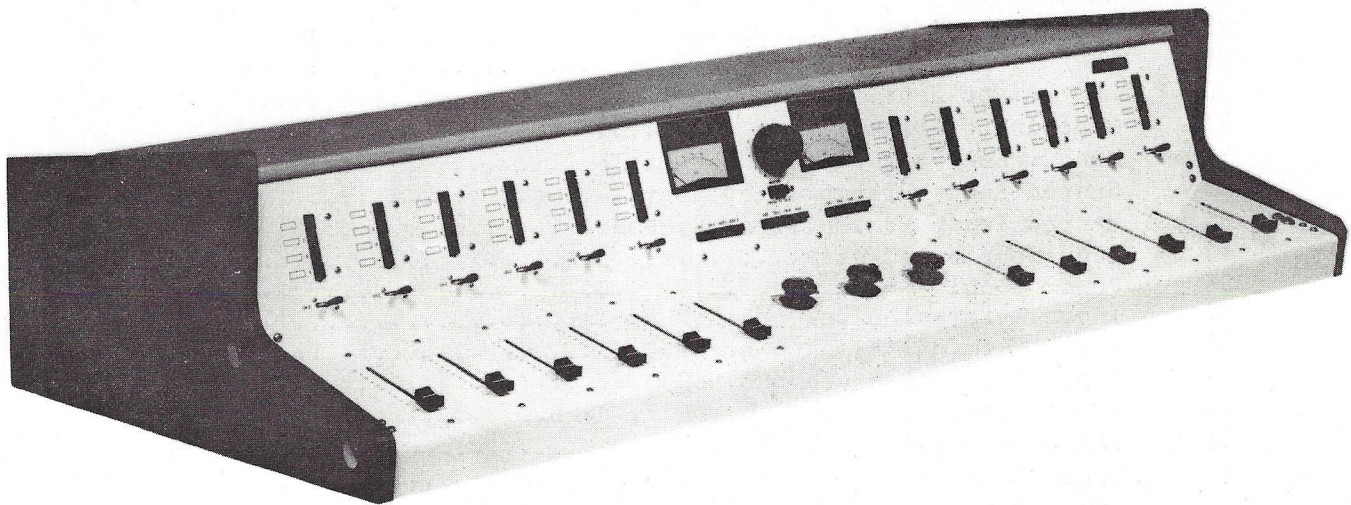
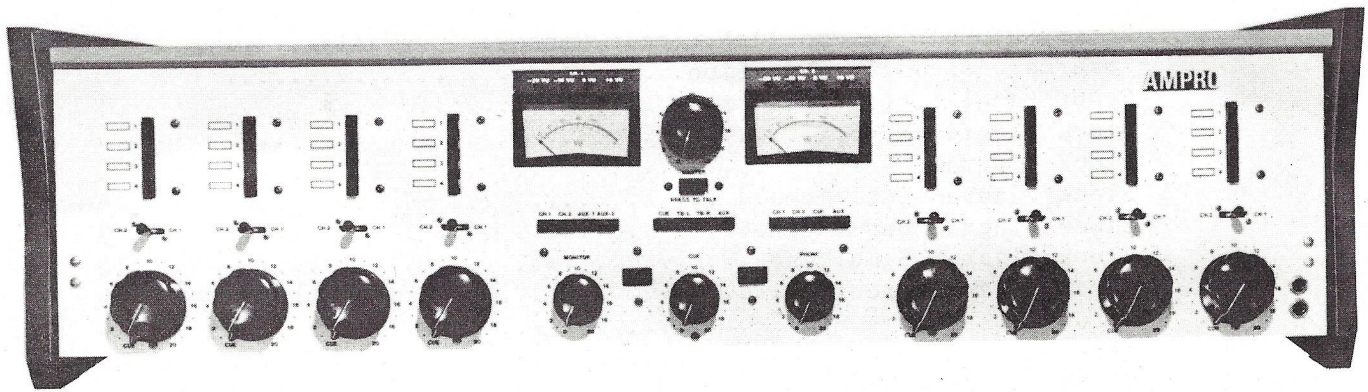
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MODEL INFORMATION

LINEAR	ROTARY		
LC	AC	6MB	24 Inputs to 6 mixers, single monaural program output
LC	AC	8MB	32 Inputs to 8 mixers, single monaural program output
LC	AC	10MB	40 Inputs to 10 mixers, single monaural program output
LC	AC	12MB	48 Inputs to 12 mixers, single monaural program output
LC	AC	6DB	24 Inputs to 6 mixers, two monaural program outputs
LC	AC	8DB	32 Inputs to 8 mixers, two monaural program outputs
LC	AC	10DB	40 Inputs to 10 mixers, two monaural program outputs
LC	AC	12DB	48 Inputs to 12 mixers, two monaural program outputs
LC	AC	6SB	24 Inputs to 6 mixers, single stereo program output
LC	AC	8SB	32 Inputs to 8 mixers, single stereo program output
LC	AC	10SB	40 Inputs to 10 mixers, single stereo program output
LC	AC	12SB	48 Inputs to 12 mixers, single stereo program output
LC	AC	8DSB	32 Inputs to 8 mixers, two stereo program outputs
LC	AC	10DSB	40 Inputs to 10 mixers, two stereo program outputs
LC	AC	12DSB	48 Inputs to 12 mixers, two stereo program outputs
LC	AC	8SCB	32 Inputs to 8 mixers, one monaural & one stereo program output
LC	AC	10SCB	40 Inputs to 10 mixers, one monaural & one stereo program output
LC	AC	12SCB	48 Inputs to 12 mixers, one monaural & one stereo program output

ACCESSORIES

SM812 Summing Program Amplifier Module

SPECIFICATIONS

GAIN

Microphone input to program output..... 104_±2dB.

OUTPUT LEVELS

Program output after 6dB isolation pad..... Test Level + 18 dBm.
Clipping Level + 22 dBm.
"0" VU Output + 8 dBm.

Monitor output into 4 or 8 ohm load..... 20 Watts

Audition bus boost amplifier into 10K ohm load..... Nominal .31 Vrms
Maximum 6.0 Vrms

Headphone Amplifier Output into 600 ohm load..... 6.0 Vrms

INPUT LEVELS

Microphone Lines Available Power Nominal-50dBm.
Maximum 25 mVrms.

High Level Lines..... Nominal -10 dBm
change of input pad allows range of nominal inputs
from -30 to +24 dBm. Maximum direct inputs..... 100mVrms

Monitor Auxiliary Lines Nominal -10 dBm

Phone Auxiliary Line Nominal -30 dBm

IMPEDANCES

Microphone inputs Source 50/150 ohms
Minimum input 2000 ohms

High Level Inputs

Direct transformer input..... Source 600 ohms
Minimum input 10000 ohms

Through 20dB pad as shipped..... Input-terminating 600 ohms
Input-Bridging 5000 ohms

Auxiliary inputs Source-balanced 600 ohms
Input-unbalanced 10,000 ohms

FREQUENCY RESPONSE

Program Channels..... 20-20000 Hz \pm 1.5dB
50-15000 Hz \pm .5dB

Monitor Channel..... 20-20000 Hz \pm 2.0dB
50-15000 Hz \pm 1.0dB

DISTORTION

Program Channels - +18dBm out, -50dBm input..... 20-20000 Hz, maximum .5%

Monitor Channels @ 10 watts output to 4 ohm load..20-20000 Hz, maximum .5%

SIGNAL TO NOISE RATIO

Program Channels--+18dBm out, -50 dBm available power input....Minimum 74 dB
20-20000 Hz measurement bandwidth

Monitor Channels-10 watts out into 4 ohms, -50 dBm.....Minimum 74 dB
available power input 20-20000 Hz measurement bandwidth

CROSS TALK

Into Program Channel referenced to + 18dBm output.....Minimum 68 dB
when driving Audition plus monitor at 10 watts
output into 4 ohm load

Into Audition plus monitor referenced to 10 watts output.....Minimum 68 dB
when driving Program Channel to + 18 dBm output

POWER REQUIREMENTS

117/234 VAC (Strappable), 50/60 Hz.....Maximum 110 Watts

ENCLOSURE

Cabinet-Beige Armorhide paint with oil finish walnut end panels

Panels-Cream baked enamel with etched and filled black markings. Black ad-
hesive foil markers supplied for input selector switch designations.

DIMENSIONS (INCHES)

MODEL	HEIGHT	WIDTH	DEPTH
AC-6	11	33 3/8	20 1/2
AC-8	11	39 3/8	20 1/2
AC-10	11	45 3/8	20 1/2
AC-12	11	51 3/8	20 1/2
LC-6	11 3/4	33 3/8	27 1/8
LC-8	11 3/4	39 3/8	27 1/8
LC-10	11 3/4	45 3/8	27 1/8
LC-12	11 3/4	51 3/8	27 1/8

WEIGHT (POUNDS)

MODEL	MONAURAL	DUAL	STEREO
AC-6	40	45	50
AC-8	47	52	57
AC-10	54	59	64
AC-12	61	66	71
LC-6	45	50	55
LC-8	52	57	62
LC-10	59	64	69
LC-12	66	71	76

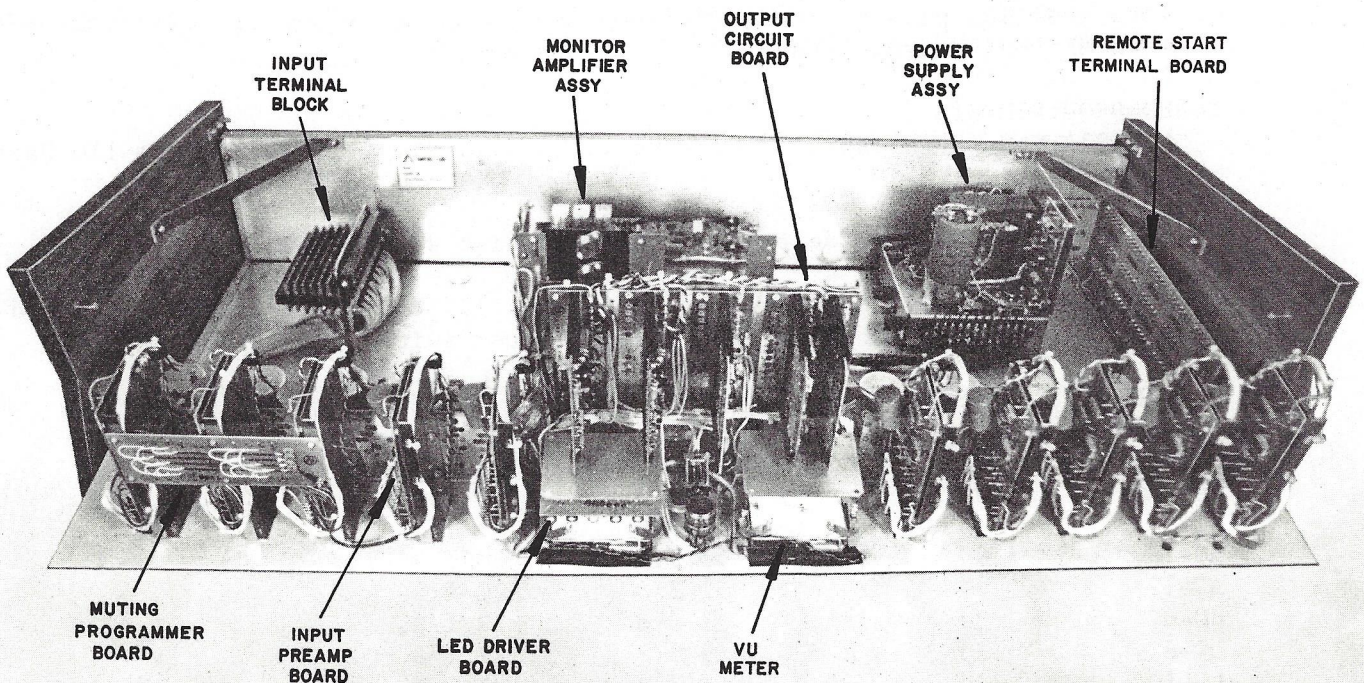


FIG.2- INTERNAL ASSEMBLIES LOCATION

SECTION I

DESCRIPTION

GENERAL

The console you have purchased represents the latest in Electronic & Human engineering design and will provide you with many years of reliable and outstanding performance.

Since the function of an audio console is to interface with and control other electronic assemblies in an overall system unique to your installation, it is strongly recommended that prior to installation the complete contents of this manual be reviewed to provide a full understanding of the complete functions and capabilities of this console. The application of consistent engineering practices during installation will pay dividends in ease of initial start up and long term system reliability.

In case of any questions or difficulty in the installation or use of your console, the full resources of AMPRO

Broadcasting, Inc. engineering department are at your disposal. Call collect to (215) 322-5100 and request engineering assistance.

APPLICATION

The Ampro 6, 8, 10 & 12 Channel rotary and linear fader consoles are full function audio control centers designed to achieve highest quality performance in demanding audio production and on-air applications. Twenty four selectable inputs to six mixers in a compact easy to operate package makes the AC-6 and LC-6 consoles ideal for the small radio station, production and CATV requirements. The extended capabilities of the AC-8 and LC-8 series (32 inputs), AC-10 and LC-10 series (40 inputs) and the AC-12 and LC-12 (48 inputs) span the requirements of medium and large scale multistudio AM, FM, and TV installations.

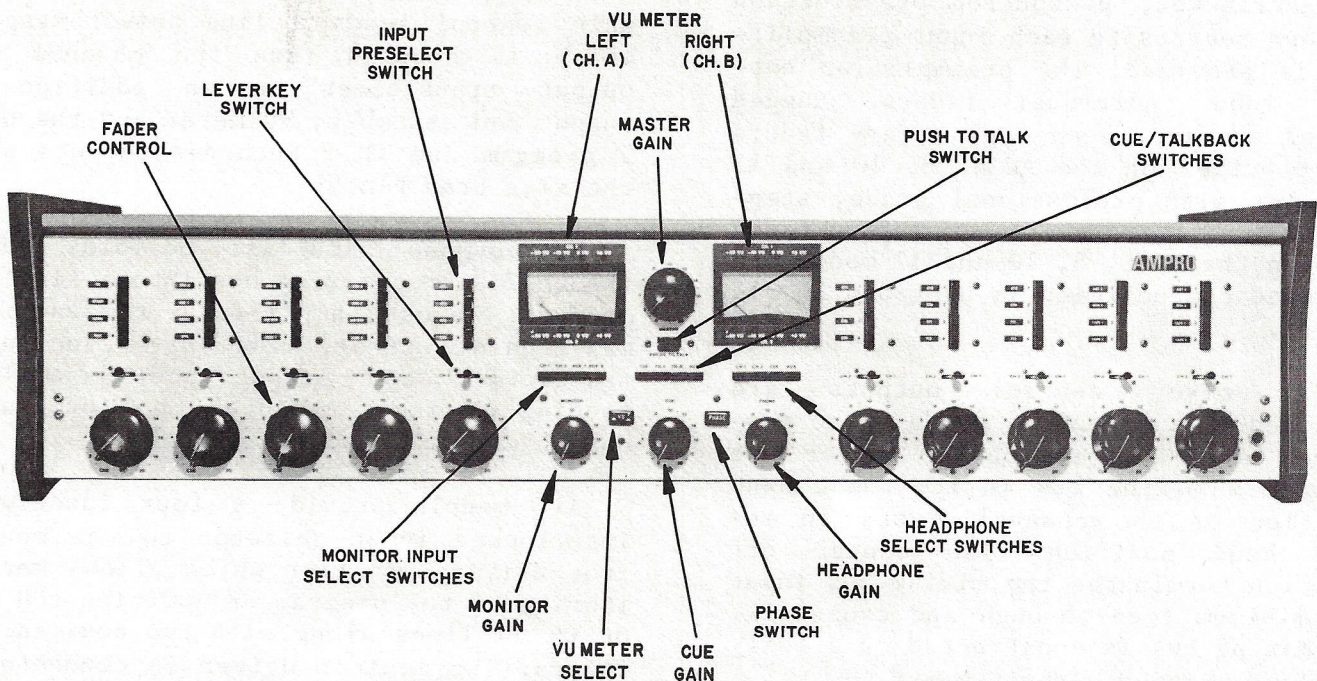


FIG. 3 Front Panel Control Locations

FUNCTIONAL SYSTEM DESCRIPTION

The 6, 8, 10 and 12 Fader Monaural and Stereo Consoles all follow the same basic system configuration, see Fig. 4 and 5, except that the stereo units provide an exactly parallel duplicate signal path for the B (right) channel audio.

The 6, 8, 10 and 12 Fader Dual Mono & Dual Stereo output consoles (Fig. 6 & 7) add additional line level metered outputs for the channel 2 mixing bus.

The Stereo-Mono Simulcast models provide full stereo inputs, cue and monitoring facilities (fig 8) with Stereo program outputs from CH 1, and a Mono program output from the Ch 2 mixing bus.

The standard preamplifier complement for all consoles provides high gain mike preamplifiers in input 1, 2, and 3 for 6 mixer units, inputs 1, 2, 3, and 4 on the 8 and 10 mixer consoles and 1 thru 6 on 12 mixer boards. The remaining input mixers are provided with lower gain, balanced transformer input preamplifiers for high level inputs.

Interlocked, pushbutton preselection of four sources to each input preamplifier is provided. The preamplifier outputs feed individual faders. Rugged silver contact, step type rotary faders are provided on the AC-6, 8, 10 and 12 consoles with professional grade, stepless 5 inch travel, linear motion fader used on the LC-6, 8, 10 and 12 models. A detented cue position is provided on all faders.

The mixer control outputs are switched by a telephone grade three position lever key switch to either the channel 1 mixing bus in its right hand position or the channel 2 bus in its left hand position. The center off position terminates the mixing bus input for minimum feed through and crosstalk. The mixing bus is constructed on a fully shielded printed circuit board.

The channel 1 mixing bus output is amplified by a low noise boost amplifier the output of which feeds the panel mounted master gain control. The program information is amplified to line level by the line driver and chassis mounted output transformer. A chassis mounted output pad assembly provides a 6 dB isolating attenuator to the program line along with an isolating loss pad to the program recorder output and the matching attenuator for the VU meters. The VU meters are calibrated for 0 VU (100%) when a + 8dBm sine wave appears across the consoles terminated output.

In monaural and stereo consoles the channel 2 mixing bus output is amplified by a low noise boost amplifier. The low level output of the boost amplifier appears at the audition output on the xmas tree block and is also selectable into both the Monitor and Head phone amplifiers.

Dual Output Consoles amplify the channel 2 mixing bus output in a low noise boost amplifier whose output is applied to the channel 2 master gain control. The channel 1 and 2 master gain controls are mounted concentrically and are independently adjustable. The master gain control feeds a line driver stage which is coupled thru the channel 2 output transformer to an additional output pad assembly, VU meter and the CH 2 program and CH 2 Recorder outputs on the xmas tree block.

Stereo-Mono Simulcast consoles sum the Ch 2 stereo mixing bus into a single monaural boost amplifier, concentric mastergain control, line driver, output transformer and output pad assembly feeding a single monaural Ch 2 program output and Ch 2 Recorder output.

All models provide a four function interlocked input selector to the monitor driver amplifier which allows monitoring of the program or audition (CH 1 or CH 2) lines along with two auxiliary inputs. The monitor driver is connected

to the chassis mounted monitor amplifier. The monitor amplifier is designed for a total four ohms unbalanced speaker load and will drive a minimum of 20 watts into 4 or 8 ohms. The monitor amplifier is completely electronically dissipation protected and can be short circuited, over loaded or open circuited without damage. The monitor provides one unmuted output and four muted outputs with individual tally output contact closures to a common tally bus. Solid state muting relay drivers eliminate all possibility of pops and clicks. A muting programmer board mounted for easy access allows all of the microphone inputs to be individually programmed to mute any or all of the four monitor outputs.

A four input, interlocked pushbutton selector for the headphone amplifier allows headphone monitoring of the channel 1 and 2 outputs, the cue bus and one auxiliary input. Headphone level is controlled by a panel mounted gain control. The headphone amplifiers are designed to drive high impedance phones (600 ohms or greater) and use of low impedance phones is not recommended. The phone amplifier is short circuit proof.

All faders have a detented cue switch which is operated just past the maximum attenuation position of the fader. Any input which is switched to the cue bus may be monitored by the headphone amplifier or by the cue/intercom amplifier and built in cue loud speaker. Stereo consoles combine both stereo channels into a single cue output.

The Cue/Intercom system provides complete cueing facilities for all inputs, a two station studio intercom along with the capability for remote program feed and two way communication with any remote line input. Selection of cue, either studio intercom or remote line talkback is made by a four station, interlocked pushbutton selector switch. The built in cue speaker serves as a sensitive microphone for talkback use in conjunction with the press to talk

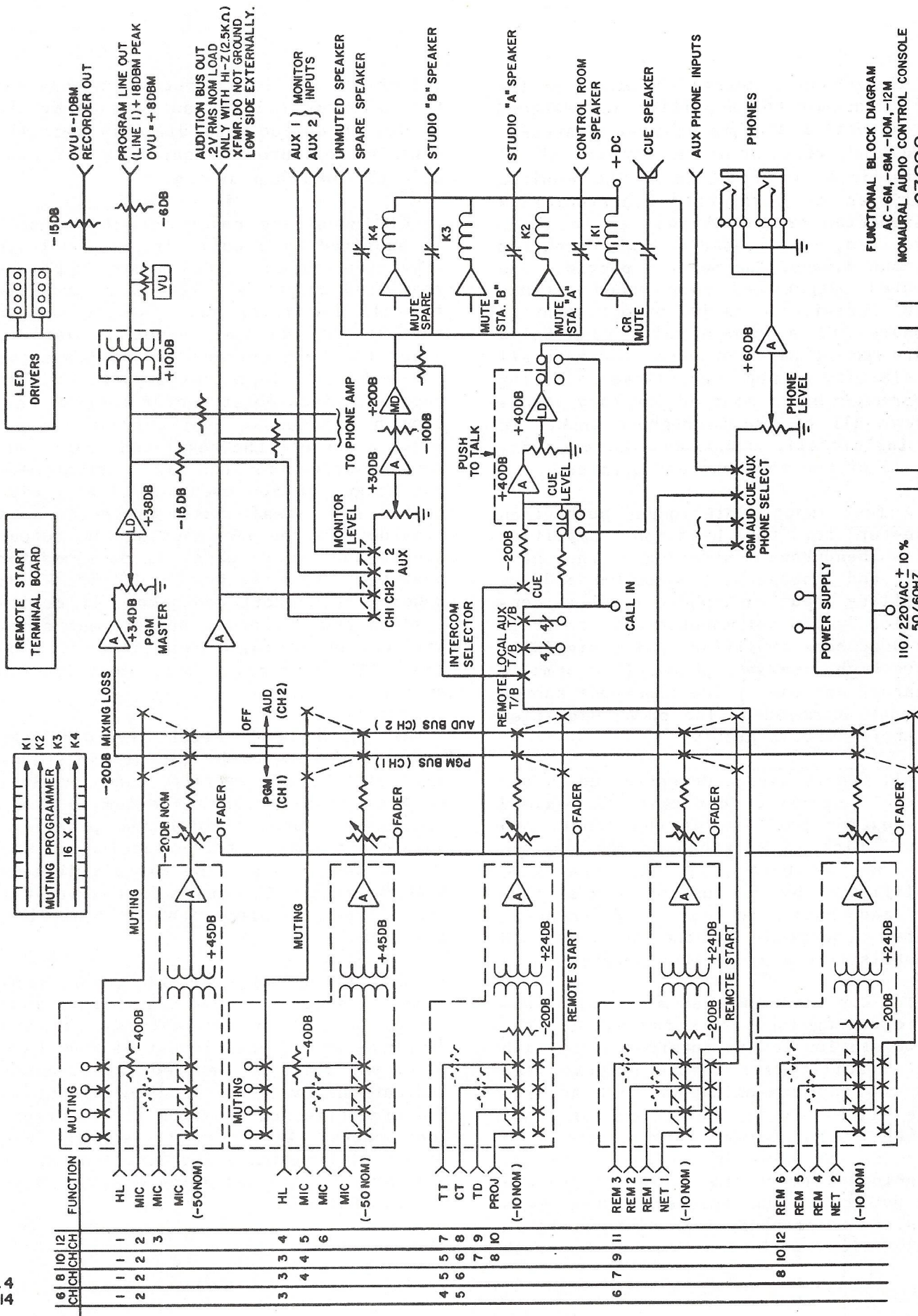
switch. A call line input which bypasses the selector switch can be used by the studio to communicate directly with the console operator regardless of the selector switch position.

All necessary power for the console is supplied by a built in, dual voltage regulated and protected power supply. A regulated output of +32 VDC is provided for all low level audio stages and an unregulated +45 VDC output is used to power the high current output stages of the monitor and program amplifiers. The regulator incorporates over current sensing by a crowbar over current circuit which shuts off the regulated supply and removes drive from the high current output stages in the event of a short circuit. Additional fuse protection is provided in the AC input and DC output lines. The power supply is designed for operation from either a 50 or 60 Hz power line without adjustment or modification and the power transformer primary may be strapped for either 117 or 234 VAC inputs. See Modification section.

All high level mixers include four remote start contacts for use in starting turntables, cartridge tape or Reel to Reel tape sources. The Remote Start lines are routed through the preselect pushbutton switch for selection of one of the four lines. The circuit is completed through the bus select lever key when thrown to either the Ch 1 or Ch 2 position.

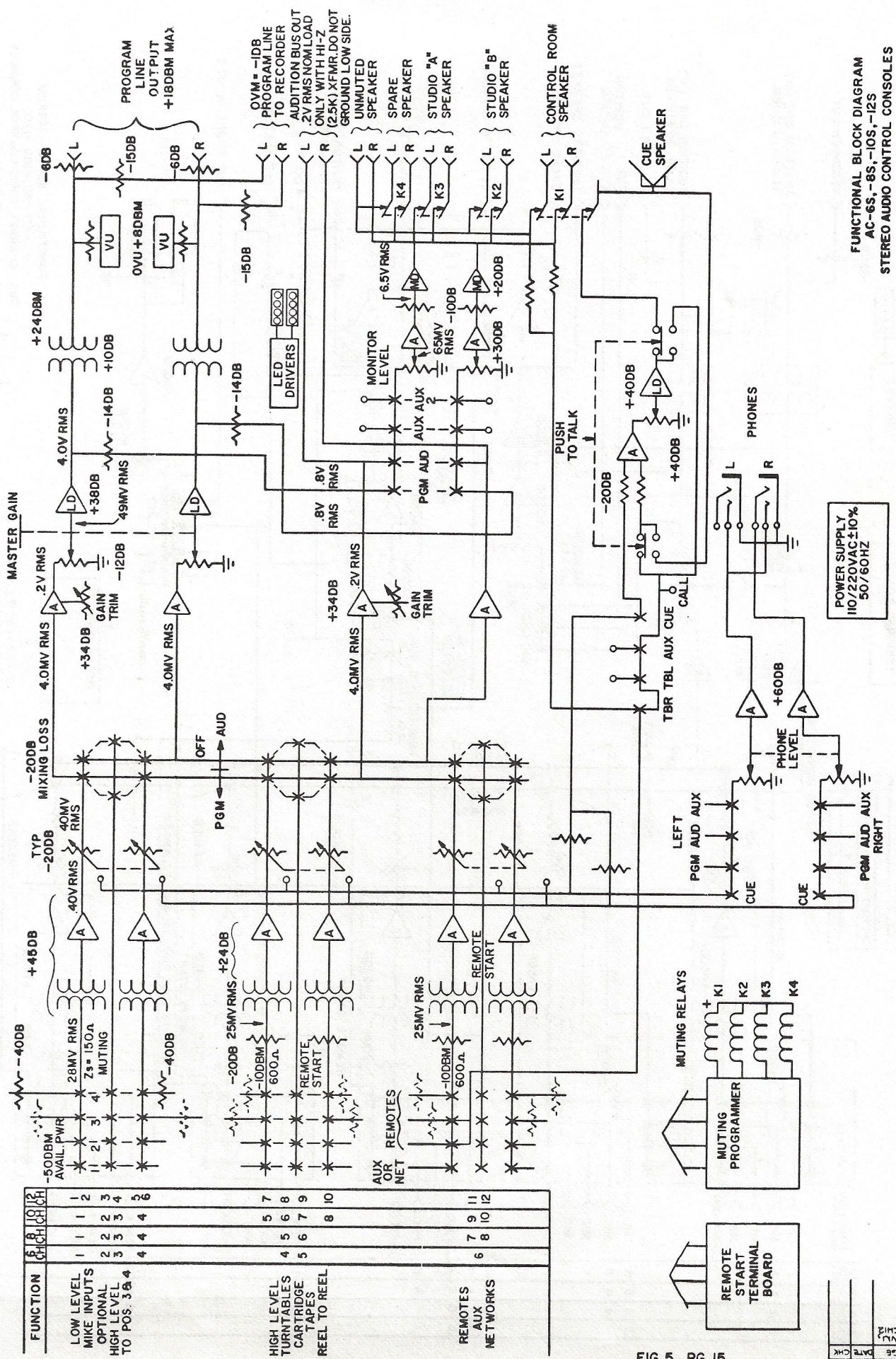
LED "Stretched Peak" indicators monitor all program output channels in addition to standard VU meters. The LED displays actual peak levels of the audio waveforms which may exceed the VU meter indications by up to 20 dB depending on the rise time and duration of the transient peaks. Attention to actual peak levels will minimize peak overloading of limiters or tape equipment on percussive program material.

FIG. 4
PG.14



FUNCTIONAL BLOCK DIAGRAM
AC-6M, -8M, -10M, -12M
MONAURAL AUDIO CONTROL CONSOLE
C7699

REV	CHANGE	DATE	CHKD
B	REDESIGN		



FUNCTION	1	2	3	4	5	6	7	8	9	10	11	12
LOW LEVEL MIKE INPUTS	1	1	1	1	5	7						
OPTIONAL HIGH LEVEL TO POS. 3 & 4	2	2	2	2	4	5	6	8				
HIGH LEVEL	3	3	3	3	5	6	7	9				
TO POS. 3 & 4	4	4	4	4	8	10						
HIGH LEVEL TURNTABLES											7	9
CARTRIDGE TAPES											8	10
REEL TO REEL											11	12
REMOTES												
AUX NETWORKS												

FUNCTIONAL BLOCK DIAGRAM
AC-6S, -8S, -10S, -12S
STEREO AUDIO CONTROL CONSOLES

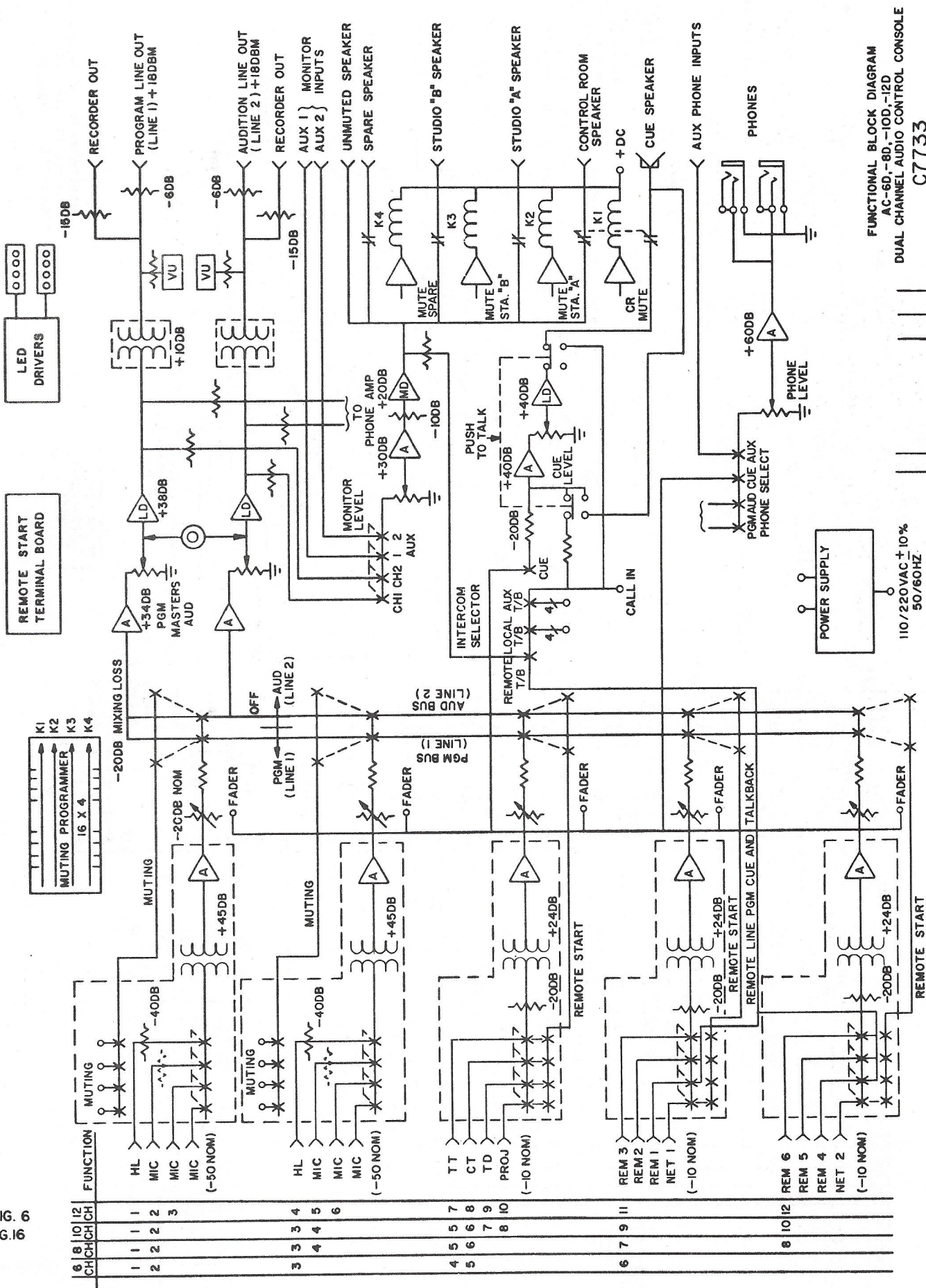
C7734

POWER SUPPLY
110/220VAC ±10%
50/60HZ

FIG. 5 PG. 15

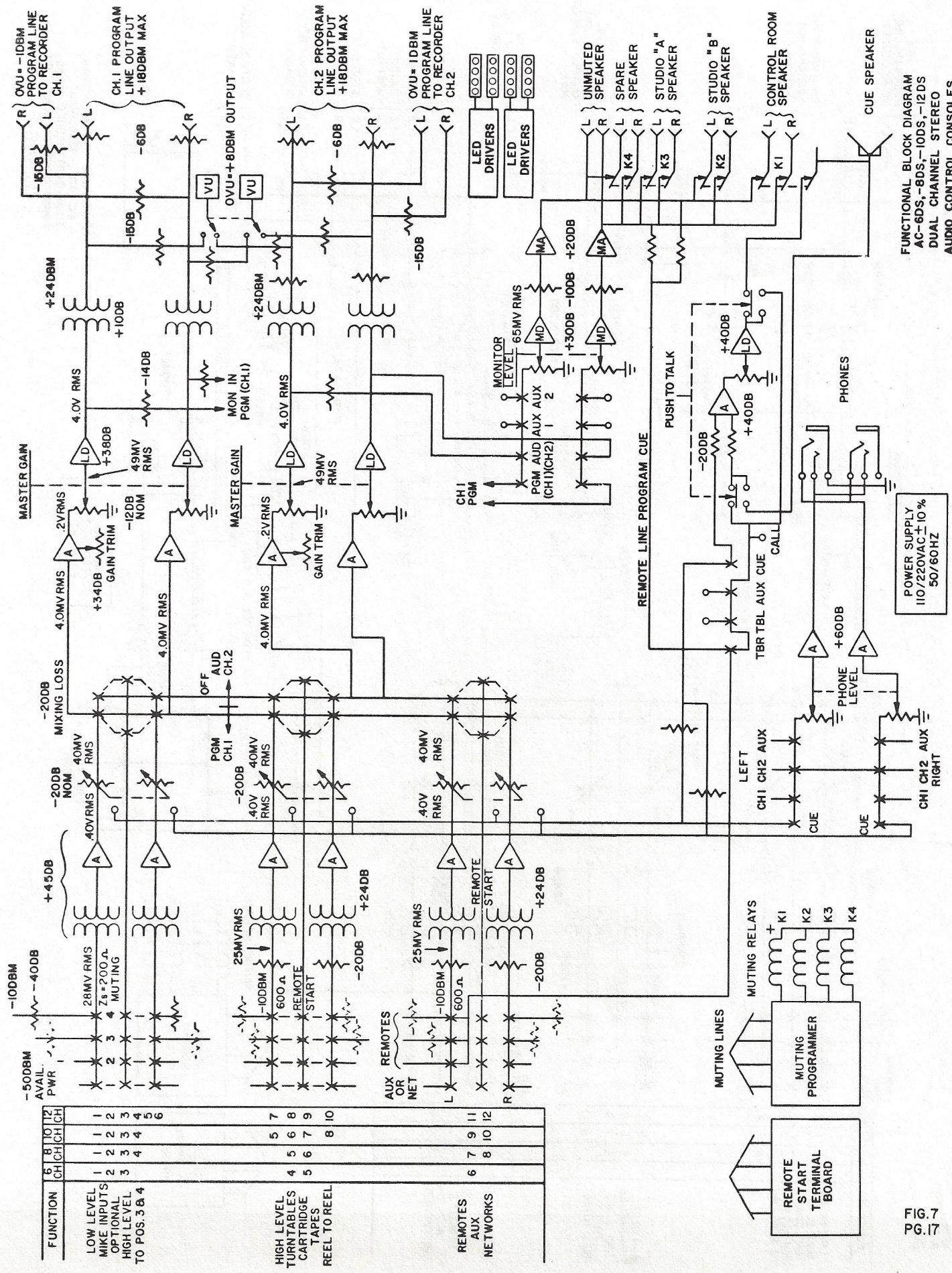
REV	CHANGE	DATE	CHK
1	REWORK		
2	REWORK		

FIG. 6
PG.16



FUNCTIONAL BLOCK DIAGRAM
AC-6D, -8D, -10D, -12D
DUAL CHANNEL AUDIO CONTROL CONSOLE
C7733

REV	CHANGE	DATE	CHKD
B	REWORKED ADDED: CH. 1, 2		

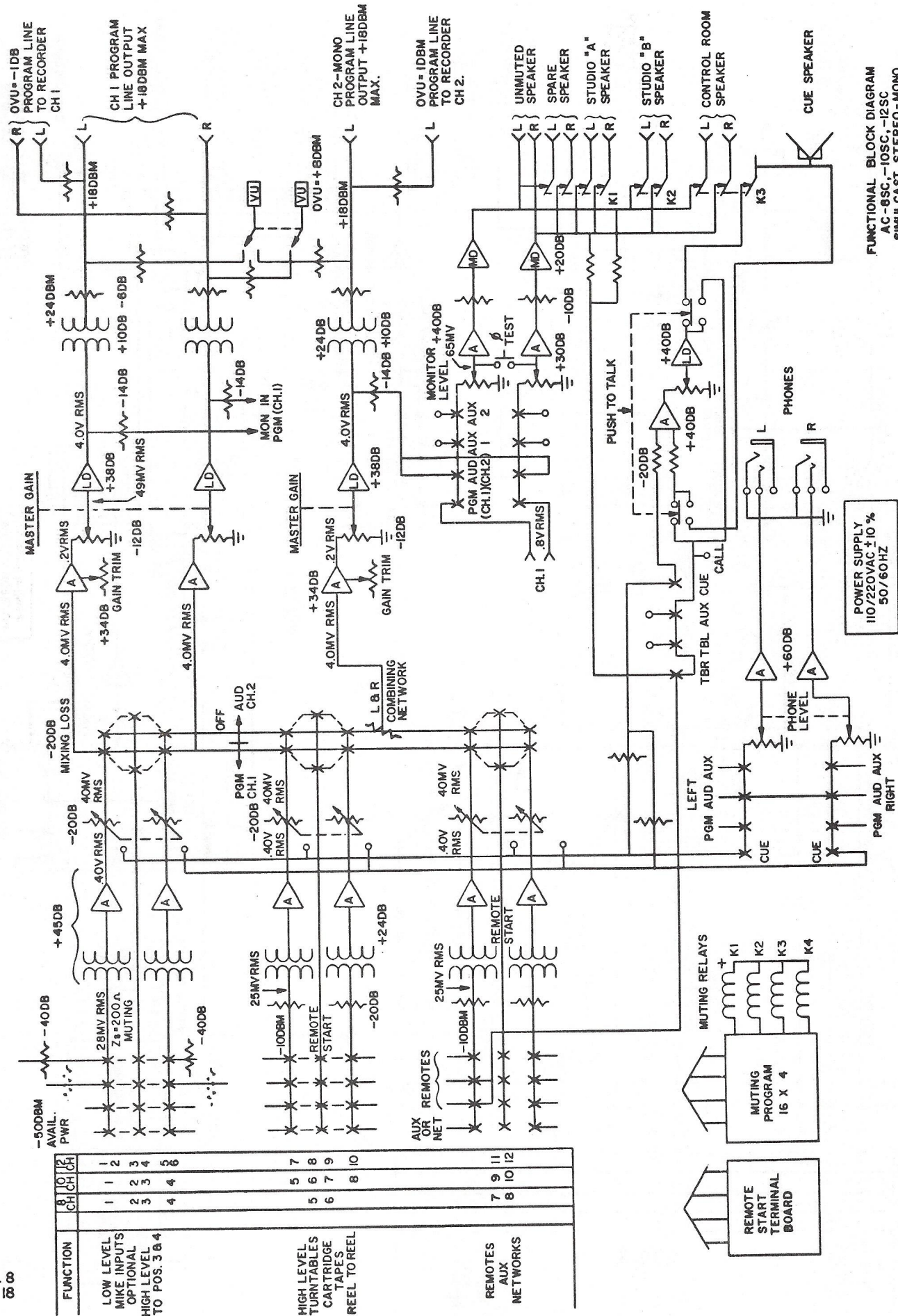


FUNCTIONAL BLOCK DIAGRAM
 AC-6DS,-8DS,-10DS,-12DS
 DUAL CHANNEL STEREO
 AUDIO CONTROL CONSOLES
 C7891

FIG. 7
 PG. 17

FUNCTION	5	6	7	8	9	10	11	12
LOW LEVEL MIKE INPUTS	1	2	3	4	5	6	7	8
OPTIONAL HIGH LEVEL TO POS. 3 & 4	1	2	3	4	5	6	7	8
HIGH LEVEL TURNABLES	1	2	3	4	5	6	7	8
CARTRIDGE TAPES	1	2	3	4	5	6	7	8
REEL TO REEL	1	2	3	4	5	6	7	8
REMOTES	1	2	3	4	5	6	7	8
AUX NETWORKS	1	2	3	4	5	6	7	8

FIG. 8
PG. 18



FUNCTIONAL BLOCK DIAGRAM
AC-8SC, -10SC, -12SC
SIMULCAST STEREO-MONO
AUDIO CONTROL CONSOLES
C7846

FUNCTION	8	10	CH	CH	CH
LOW LEVEL MIKE INPUTS	1	2	3	4	5
OPTIONAL HIGH LEVEL TO POS. 3 & 4	2	3	4	5	6
HIGH LEVEL TURNTABLES	7	8	9	10	
CARTRIDGE TAPES	5	6	7	8	
REEL TO REEL					
REMOTES	7	9	11		
AUX NETWORKS	8	10	12		

SECTION II

INSTALLATION

UNPACKING

Immediately upon receipt of this equipment it should be thoroughly inspected both inside and outside to reveal any shipping damage. In case of damage follow the instructions for filing a damage claim noted on the inside front cover of this manual. Do not return damaged equipment to Ampro Broadcasting, Inc. without prior authorization and shipping directions. Retain all packing material until you are sure it will not be required.

MOUNTING

A mounting location for the console should be chosen with attention to providing adequate clearances for the top cover and front panel to swing fully open for ease of installation and servicing. Sufficient ventilation must be provided to assure that the console is not excessively heated by external components such as cartridge tape machines, tube type amplifiers, etc. Strong external magnetic fields should be avoided.

Clearance holes are provided in the bottom of the console for screws to permanently mount the unit to slippery or tilted desk surfaces.

Knockouts are provided spaced across the bottom and rear surfaces of the console. These knockouts will accept $\frac{1}{2}$ inch conduit connectors.

INPUT AND OUTPUT CONNECTIONS

All low level and line level input and output connections are made to a xmas tree type solder terminal block located in the left rear corner of the cabinet. The functions of these terminals are identified on the schematic interconnect diagram (supplied separately with this manual) as well as on the termination diagram for the specific

console model, located at the rear of this manual.

Monitor speaker and tally line connections are made directly to a barrier block mounted on the monitor amplifier circuit board. Terminal strips are provided premounted to these blocks for ease of wiring. On stereo consoles the Channel A (left) monitor board is mounted below and slightly to the rear of the Channel B (right) monitor in the center of the cabinet. Output terminal identification information is marked on the monitor p.c. board adjacent to the terminals.

POWER CONNECTIONS

A.C. line power connects to a three terminal barrier strip TB1 mounted on the power supply chassis at the right rear of the cabinet. TB1 terminals 1 and 2 are the power line connections and terminal 3 is a chassis ground which is normally not connected if a station grounding bus is used.

GENERAL WIRING RULES

Careful planning based on good engineering practice will contribute greatly to stable and reliable operation of the console. Your console has been thoroughly checked prior to shipment and is unconditionally stable, however, due to the very high gains available from output to input (106 dB typical=200,000) even minute amounts of coupling can contribute toward making the overall system in which the console is installed become oscillatory.

Careful attention to a few basic installation rules will insure optimum performance. This console is designed to be grounded at one point and only one point. That point is the heavy tinned copper ground bus mounted around the base of the xmas tree terminal block. Do not run separate grounds to the cabinet,

the power supply or the D.C. ground system. All single ended inputs and outputs from the console must be driven by or terminated in an ungrounded, transformer coupled or floating source or load. These single ended lines are the auxiliary monitor and headphone inputs, talkback lines and the audition bus boost amplifier output in the monaural and stereo consoles. Accidental grounding of the low side of these lines external to the console will cause parallel ground paths which include portions of the internal ground system of the console and can cause oscillations, excessive crosstalk, hum, noise and R.F. pickup.

An insulated ground bus should be run from the console ground bus to the studio ground system. Flat copper strap makes an excellent ground conductor.

All input and output connections to the xmas tree block should run as tightly twisted, foil shielded pairs. All shields of cables connected to the console should be grounded only at the console and should not be grounded at their far end. To avoid inadvertent grounding of cable shields to each other, to conduit, cabinets etc., all of which can cause ground loops, use of jacketed shielded pair cable is required. Belden type 8451 (stranded) or 8640 (solid) cable is recommended.

Care must be exercised in maintaining separation of cables carrying signals of different levels. Microphone cables should be spaced from high level inputs. Program outputs should be isolated. Speaker leads in particular present a coupling hazard. Although the voltages carried by the loudspeaker lines are not significantly higher than the program lines, the higher currents driving the low load impedances can cause noticeable magnetic coupling into poorly twisted input leads and even directly into high level outputs. All speaker leads should be very tightly twisted right up to the monitor connection block terminals since the strength of the field generated by

these wires is directly proportional to the area enclosed by any loop in these lines. It is necessary that all speaker lines be run only as tightly twisted pairs with no grounds external to the console and in separate conduit from any other signal lines. If speaker lines are run in shielded cable the shields should be allowed to float. Do not, under any circumstances, ground speaker-line shields to the input block ground bus bar.

INPUT LEVELS AND IMPEDANCES

MICROPHONE PREAMPLIFIERS

The microphone preamplifiers are wired for 150/250 ohm microphones having a nominal output of -50dBm Available Power, equal to 2.8 mVrms across the transformer primary. Maximum primary input voltage should be limited to 50mV. to avoid excessive distortion. A board mounted "0" Pad for the S4 input on each preamplifier provides a 40 dB line terminating attenuator which can be converted to a 20K ohm bridging pad by cutting out the 560 ohm terminating resistor across the input of the pad. Nominal input to the pad is -10 dBm.

Turret lugs are provided for construction of an additional on board pad to convert any other low level input line to high level use. See Fig. 10 for a table of attenuator values. Alternatively, all inputs may be converted to high level bridging or terminating by removing jumpers and inserting an attenuator pad on the terminals provided at the transformer primary after the input switching.

The preamplifiers are readily removed for modification by popping the board off its plastic mounting spacers. It may sometimes be required to cut a cable tie to get sufficient play in the wiring harness.

HIGH LEVEL PREAMPLIFIERS

The high level input preamplifiers are designed for a nominal -30 dBm

(25mV) across the input transformer primary. Maximum input to the transformer primary should be restricted to 100mVrms to avoid distortion. As shipped, a 20 dB line terminating attenuator is wired between the line selector switch and the input transformer primary which converts the nominal input level to -10 dBm. This pad can be converted to a 5500 bridging pad by cutting out the 620 ohm line terminating resistor across the input of the pad. See Fig. 11 for recommended component values for higher and lower attenuations. Lines of different nominal levels can be handled at same input by adding up to two individual line attenuators in the spaces provided on the preamp board.

MONITOR AUXILIARY

Two auxiliary inputs to the monitor amplifier are provided. A minimum input level of 65 mV at this point will drive the monitor to 10 watts output into a 4 ohm load. The monitor auxiliary inputs are single ended, 10,000 ohm bridging and must be driven from a transformer output, ungrounded line. A nominal line level of -10 dBm is recommended.

HEADPHONE AUXILIARY

One auxiliary input to the headphone amplifier is provided. A 2.5 mV minimum input level will drive high impedance headphones to 2.5 volts. The auxiliary phone input is single ended, 10,000 ohm bridging and must be driven from an ungrounded line to avoid ground loops. A nominal line level of -30 dBm is recommended.

OUTPUT LEVELS AND IMPEDANCES

PROGRAM LINES

The output program lines are designed to feed 600 ohm balanced or unbalanced loads. Typical output clipping level is +22 dBm after a 6 dB isolation pad. Nominal output for zero VU meter indication is +8 dBm sine wave.

RECORDER LINES

The program recorder outputs feed balanced or unbalanced 600 ohm loads. Zero VU indications provide a nominal -1 dBm recorder output.

CH 2 BOOST AMPLIFIER

The Channel 2 Mixing Bus boost amplifier connected to AUD OUT on Mono and Stereo consoles will drive a nominal .31 Vrms into a nominal 2,500 ohm ungrounded load. Maximum output is 6.0 VRMS.

MONITOR AMPLIFIER

The monitor output will drive a total output load of 4 or 8 ohms at full power and higher impedances at slightly reduced power. Loads of less than 4 ohms will cause the amplifier to automatically reduce the available output voltage swing as the electronic dissipation limiter operates with a rapid rise in distortion, however, no damage to the amplifier will result.

HEADPHONE AMPLIFIER

A TRS headphone jack is provided on all consoles. Only high impedance crystal or magnetic headphones (greater than 600 ohms) should be used.

Since the headphone amplifiers are short circuit protected, attempts to drive excessive levels into headphones of lower than recommended impedance will result in a "squegging" oscillation due to automatic current limiting in the amplifier.

MONITOR SPEAKER MUTING

When microphones are installed in a studio having a monitor loudspeaker, it is necessary to mute that particular speaker any time that the microphones are "live" to prevent feedback.

Four speaker outputs of the monitor amplifier are controlled by their own

muting relays and relay driver circuits. When energized, each relay will cut off the associated loudspeaker and close a set of "Tally" contacts which can control external power relays for "On Air" lights. An additional unmuted output is also provided.

The muting relay operation is fully programmable to enable any microphone input to control any of the four relays. This feature is provided by a jumper programmed Muting Programmer Board assembly mounted on the front panel just above the microphone preamplifiers.

At installation, determine which microphone preamp inputs are wired to microphones in proximity to each monitor speaker used. The Muting Programmer Board has four vertical inputs for each microphone preamplifier corresponding to preamp input preselector switch positions 1 through 4. The preamplifiers are labeled as Ch 1 through Ch 4.

Tack Solder the jumper wires from the four vertical inputs of each channel to the horizontal buses corresponding to the speakers to be muted. For example, if the Control Room microphone is wired to switch position two of preamplifier one then number 2 terminal of Ch 1 on the Programming Board should be jumped to the horizontal bus labeled Control Room. Whenever preselect switch two of preamplifier 1 is selected and the associated lever key is moved from the center OFF position to feed the CH 1 or CH 2 Mixing Bus the Control Room monitor speaker will be cut off and the Control Room Tally contact closed.

INTERCOM SYSTEM

A two station studio intercom and remote line talkback system is built into the console as part of the cue amplifier. The intercom is designed for use with any 45 ohm high efficiency speaker with appropriate switching or even with a separate 45 ohm speaker and dynamic microphone arrangement, see Figs. 12 and 13.

Connect the Intercom station to the local or auxiliary intercom in and out terminals on the xmas tree block observing hi and low polarity, use shielded, twisted pairs grounding shields at the xmas tree. Connect the call line from the remote station to the Intercom Call Terminals. Muting for the remote station should be provided. The tally contacts of the console muting system can control external intercom muting relays. The built in console cue speaker is muted by the control room muting relay.

REMOTE TALKBACK AND PROGRAM CUE

Two way communication with any unselected console remote line input can be set up by operating the Talkback-Remote (TB-R) switch. When TB-R is operated the console cue amplifier will monitor all remote lines which are not selected into the high level preamp input. Operating the press-to-talk button will direct the intercom amplifier output down all the unselected remote lines. If TB-R is not operated, a program cue feed from the monitor amplifier output is continuously directed to all unselected remote lines. Nominal send and return levels of -10dBm are required on the Remote lines.

Preselect switch position 1 on the Remote Preamplifiers is isolated from the program cue and talkback systems for connection of Network lines. If it is desirable to isolate any other inputs from the Program Cue and Talkback systems simply remove the red-white twisted pair jumper from the preamplifier preselect switch position involved.

The user should be aware that all unselected remote line inputs are connected to each other as well as the talkback feed.

REMOTE START SWITCHING

The Remote Start Switching feature provides four lines switched to a single common line for each high level input channel. The lines are terminated on

connection blocks mounted on the inner right side of the console cabinet next to the power supply chassis. Additional terminals are provided on these blocks for construction of any additional circuitry required for switching relays, generating momentary pulses, etc. The remote start contacts can be used to control starting of cartridge decks, reel to reel tape, turntable motors, either directly or through a relay network, dependent on the voltage and current levels. The console contacts should not be used to switch levels exceeding 24 VDC at .04 A. The remote start contacts will interface directly with the turntable motor control relay circuit built into the AMPRO TTP-S turntable preamplifier. A simple pulse generating circuit (fig 9) suitable for pulse starting AMPRO Cartridge Tape units can be constructed on the spare terminals of the Remote Start terminal blocks.

The line to be started is preselected by any one of the four push buttons on the high level input preamp. The selected line is then switched to the common line by operating the input channel lever switch to either the Channel 1 or Channel 2 position.

MODIFICATIONS

MONAURAL INPUTS TO STEREO CONSOLES

In many applications where a stereo console is used, operating requirements call for feeding left and right channels from a monaural microphone or other source. Microphone inputs have an input impedance approximately twenty times the rated source impedance, and both inputs of a stereo mike channel can simply be paralleled across a single microphone for monaural feeds. High level inputs all incorporate input attenuators which can be converted to bridging by removal of the terminating resistor on the board. By removing the terminating resistors from the preamps both sides of a stereo input can be bridged across a single monaural source. In addition, for

direct feeds to the primary of a high level input transformer the actual input impedance is approximately 10,000 ohms.

234 VAC OPERATION

As shipped, the console is wired for 117 VAC, 50/60 Hz power line inputs. To convert the unit for use on 234 VAC 50/60 Hz power it is necessary to restrap the power transformer primary wiring. As viewed from the front of the console the power transformer primary terminals are located along the top rear side of the transformer located on the power supply chassis. For 117 VAC operation terminals 1 and 3 are jumpered together and to the yellow line input wire, terminals 2 and 4 are jumpered together and to the blue line input wire. To convert to 234 VAC operation remove the jumper between terminals 1 and 3 and the jumper between terminals 2 and 4 leaving the yellow and blue input wires connected to end terminals 1 and 4 respectively. Add a new jumper between center terminals 2 and 3.

CONVERSION OF HI-LEVEL PREAMPS FOR MICROPHONE INPUTS

If it is necessary to handle a large quantity of simultaneous microphones through the console, a hi-level preamplifier can be converted to microphone use by:

1. Replacing the feedback resistor R4 with a 150K ohm low noise resistor to raise the gain.
2. Removing and jumpering across the entire loss pad between the input selector switch and the input transformer primary. Be sure to also remove the two 270 ohm balance resistors across the transformer primary.

The noise performance of a converted hi-level preamplifier will not match that of the standard microphone preamplifier but will be acceptable for use with all but extremely low output

microphones. Note also that the converted channel will not have muting provisions. The lack of muting switching will not be a problem if the converted channel is used in conjunction with a standard microphone input (such as in a panel discussion) which will control the muting circuits.

MONAURAL SUMMED OUTPUT

If necessary to provide a summed monaural output derived from a stereo program output channel a zero dBm monaural output can be obtained by joining left & right program recorder outputs while maintaining approximately 30dB separation between stereo outputs. 50dB separation at a -10 dBm output can be obtained by building out the recorder outputs with 10dB pads before joining the channels together.

If it is desired to provide a full line level (+8dBm) monaural output with maximum separation an add-on summing program amplifier module is available, Model #SM812. This unit provides a summing amplifier and transformer output line driver. The summing input is switchable to either the Ch 1 or Ch 2 Stereo Program outputs and incorporates an internal gain control.

LED PEAK OUTPUT LEVEL DISPLAY CALIBRATION

The LED peak indicators are supplied calibrated for sequential indications at -20, -10, 0 and +6 referenced to 0 VU (+8dBm) meter indication. The individual LEDs can be recalibrated for your requirements by readjusting the individual threshold potentiometers on the driver boards mounted behind the VU meter. The left hand driver board controls the LED displays mounted above the VU meters while the board mounted behind the right hand VU meter controls the LED displays mounted below the two meter faces on Dual Stereo & Stereo-Mono consoles. A set of metal foil labels with various calibration nomenclature are supplied with your console to remark the LED display bezel.

STANDARD TEST CONDITIONS

In order to properly compare the performance tests of the completed console installation against published specifications, the following standard test conditions should be set up.

1. Mike input source impedance - 150 ohm low noise resistor.
2. Standard Mike input level, -50dBm Available Power which corresponds to 2.5 mVrms across a 150 ohm source resistance.
3. Input channel fader straight up (10).
4. Master Gain Control set for +18dBm sine wave program output into 600 ohm load (approximately 13). VU meter will be off scale.
5. Monitor Amplifier output set to 10 watts into 4 ohm load equal 6.5 Vrms sine wave.
6. High level Input source impedance -600 ohms low noise.
7. High Level Input -10dBm across 600 ohms. Set fader to match +18dBm output.

In order to properly evaluate performance of any electronic device it is necessary to specify a noise measurement bandwidth. Ampro consoles are specified for the full 20 to 20,000 Hz audible noise bandwidth, however, since the actual console bandwidth is considerably greater, consistent noise measurements require a bandwidth limiting filter. A good approximation of a 20,000 Hz square bandwidth can be achieved with a series 12K ohm resistor and shunt .001 uF capacitor connected between the 600 ohm console output load resistor and a high impedance audio voltmeter. This filter should be used only for noise measurements and must be removed for frequency response and distortion tests.

With standard conditions set up and proper bandwidth limiting, remove the input signal, terminate the input in the specified low noise resistor and using a sensitive audio voltmeter read signal to noise ratio referred to +18dBm output. For example a -56dBm output yields 74dB signal to noise ratio.

Remove bandwidth filter, apply standard input levels and read frequency response and distortion at desired frequencies.

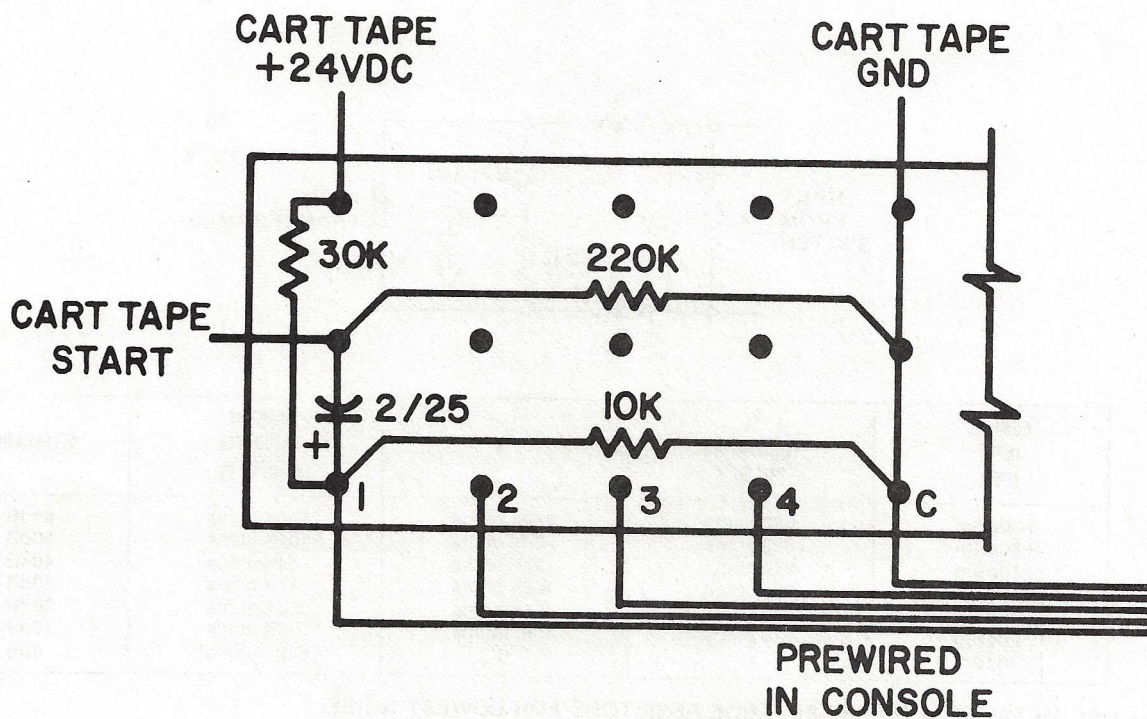
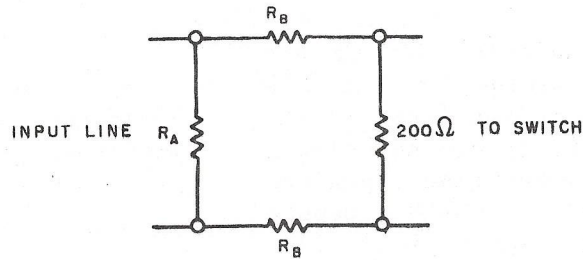


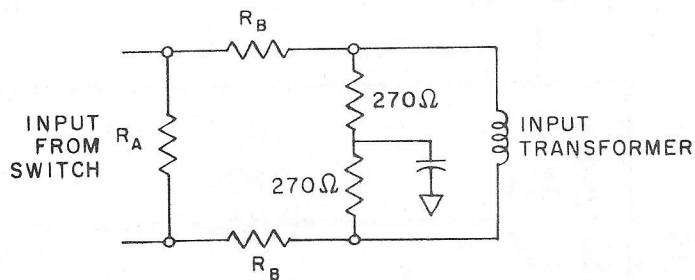
FIG. 9—REMOTE START CIRCUIT



NOMINAL INPUT LEVEL	RA TERMINATING PAD ONLY	RB	BRIDGING IMPEDANCE WITHOUT RA	ATTENUATION
+20dBm	560 ohm	300K ohm	600K ohm	70dB
+10dBm	560 ohm	100K ohm	200K ohm	60dB
0dBm	560 ohm	30K ohm	60K ohm	50dB
-10dBm	560 ohm	10K ohm	20K ohm	40dB
-20dBm	620 ohm	3K ohm	6.6K ohm	30dB
-30dBm	910 ohm	910 ohm	2.0K ohm	20dB

USE METAL FILM OR METAL OXIDE RESISTORS TO MINIMIZE NOISE

FIG. 10 Attenuator Values Mic



NOMINAL INPUT LEVEL	RA TERMINATING PAD ONLY	RB	BRIDGING IMPEDANCE WITHOUT RA	ATTENUATION
+30dBm	620 ohms	270K ohms	540K ohms	60dB
+20dBm	620 ohms	82K ohms	164K ohms	50dB
+10dBm	620 ohms	27K ohms	54K ohms	40dB
0dBm	620 ohms	8.2K ohms	17K ohms	30dB
-10dBm	680 ohms	2.4K ohms	5.3K ohms	20dB
-20dBm	910 ohms	620 ohms	1.8K ohms	10dB
-30dBm	∞	0	540 ohms	0dB

USE METAL FILM OR METAL OXIDE RESISTORS FOR LOWEST NOISE

FIG. 11 Attenuator Values Hi-Level

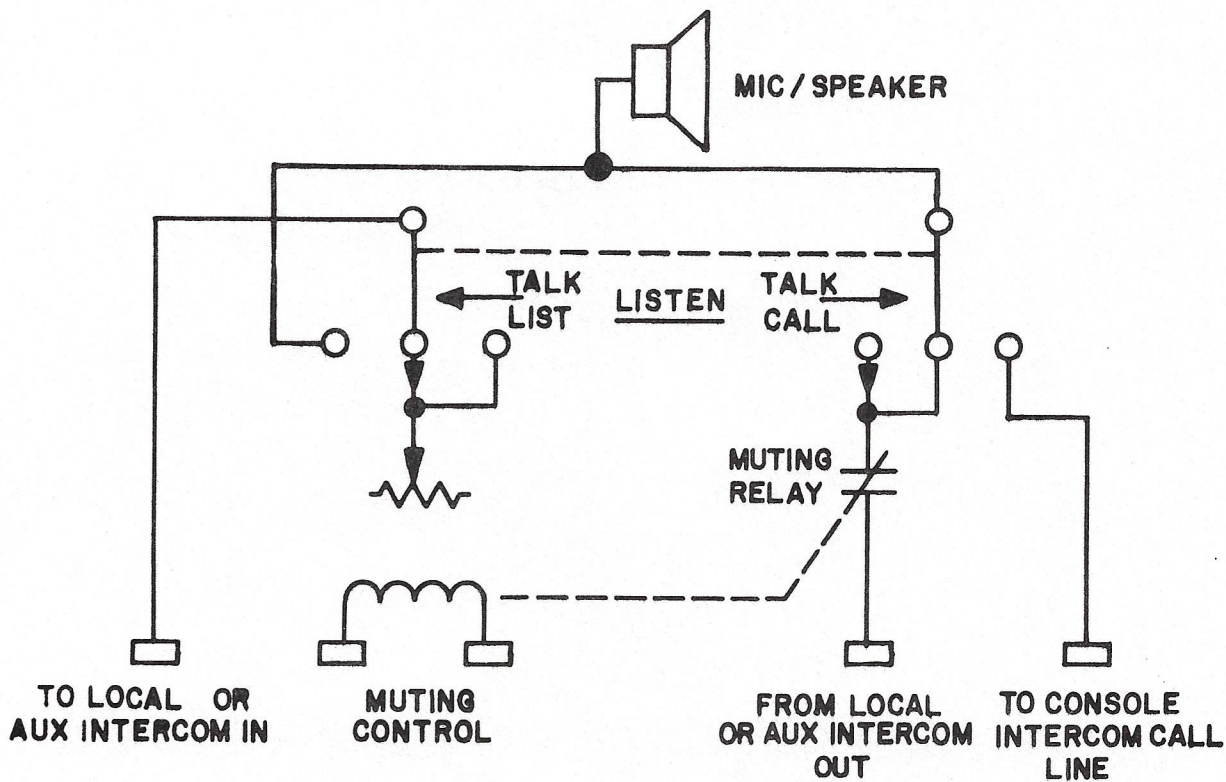


FIG.12 - BLOCK DIAGRAM - INTERCOM REMOTE STATION

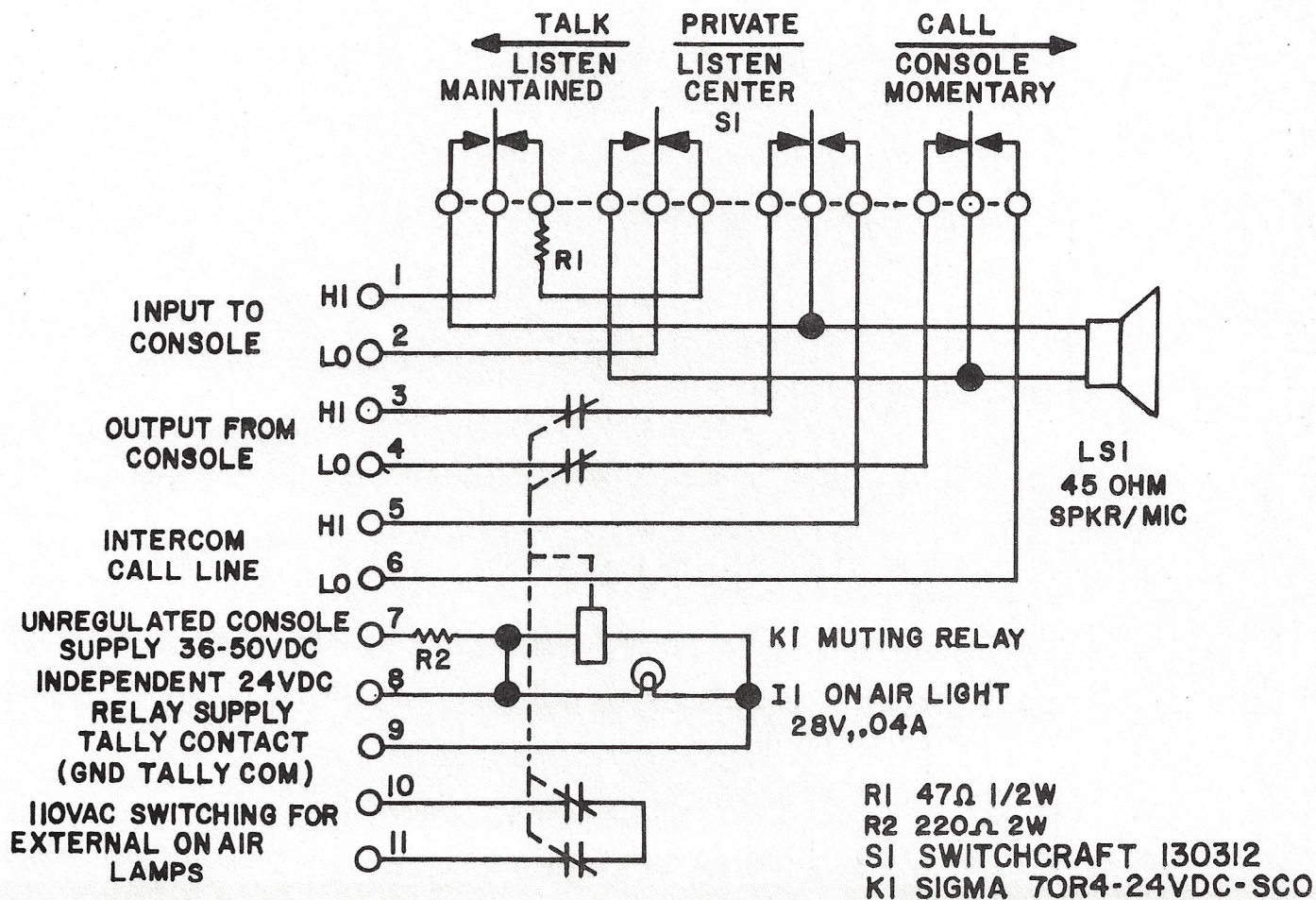


FIG.13 - SCHEMATIC DIAGRAM - INTERCOM REMOTE STATION

SECTION III

OPERATION

CONTROLS - FUNCTIONS AND USE

INPUT PRESELECT SWITCHING

Any one of four inputs to each preamplifier may be selected by depressing the pushbutton switches located directly above the individual faders and lever key switches. These pushbuttons are mechanically interlocked, depressing one releases all others. Adhesive backed metal foil labels with a selection of nomenclature are supplied with your console. These labels are to be placed in the etched rectangles adjacent to each input preselector switch for identification of each input. If it is desired to change these labels, pry one corner and carefully peel off. Input preselect switches should not be operated while channel is "on air".

FADERS

The input selected is applied to a microphone or High level input preamplifier. The outputs of these preamplifiers feed the channel mixing faders. Rotary fader consoles have a cue switch which operates at the extreme counter clockwise position of the control. Normal setting of these faders with nominal inputs is straight up (10 on reference scale).

Linear fader consoles have a cue switch which operates at the end of travel just past the maximum attenuation position of the fader. Normal setting with nominal input is 20.

LEVER KEY SWITCHES

These are three position telephone type lever key switches. The center off position disconnects the fader output from the mixing bus & shorts the bus input to minimize feed through and

noise. Positioning the key in the CH 1 (right hand) position feeds audio from the fader to the CH 1 Program Boost amplifier. Positioning the key to the CH 2 position feeds fader audio to the audition bus boost amplifier in monaural & stereo consoles and to the CH 2 program boost amplifier in dual channel units.

MASTER GAIN CONTROL

The master gain control, located in upper center of the panel, controls the signal level fed from the program bus amplifier output into the program output line driver and thus the actual line level put out by the console and also the VU meter indication. Normal position of this control is about 13 on the reference scale. Stereo consoles incorporate a two section control with one shaft and knob for simultaneous level control of left and right stereo channels. Dual channel consoles incorporate a dual section control with two concentrically mounted knobs allowing independent control of levels in both CH 1 & CH 2 program outputs. Channel 1 is the outer knob & Channel 2 is the inner knob.

MONITOR INPUT SELECTOR AND LEVEL CONTROL

Four interlocked pushbuttons labeled CH 1, CH 2 AUX 1, AUX 2 and a level control labeled Monitor are located in the left center of the console. Selection of CH 1 feeds the CH 1 Program output into the monitor, CH 2 selects the output of the audition bus boost amplifier in monaural & stereo consoles and the CH 2 program output in dual channel consoles. Selection of AUX 1 or AUX 2 feed external inputs from the xmas tree block to the monitor. The level control is a single unit in monaural and dual consoles and ganged two channel control with a single knob for stereo.

PUSH TO TALK SWITCH, CUE/TALKBACK SELECTOR AND LEVEL CONTROL

A four position interlocked selector switch labeled CUE, TB-L, TB-R, AUX and associated level control labeled CUE is located in the lower center of the panel. Selection of CUE applies audio from any fader set to cue to the internal cue/intercom amplifier and its built in speaker. TB-L selects the local studio intercom station. Operation of the momentary Push to Talk switch allows the console operator to call into the studio or to respond to a call from the studio fed via the "Call" line input using the internal console loudspeaker as a microphone. AUX selects the auxiliary studio intercom, otherwise operation is similar to TB-L. Operation of TB-R (talkback remote) causes the internal speaker to monitor any and all remote lines which are not preselected into a preamplifier input. The Push to Talk switch will allow the console operator to talk back down the remote lines to remote operator. Any time that TB-R is not selected, the monitor amplifier output is fed to all remote lines not preselected into a preamplifier input. If the monitor is set to CH 1 this provides a program cue to the remote operator. This program cue is automatically switched off the remote line as it is preselected into the console.

HEADPHONE SELECTOR AND LEVEL CONTROL

A four position interlocked selector labeled CH 1, CH 2, CUE & AUX with associated level control labeled PHONE is located in the center right of the panel. Selection of CH 1 feeds the CH 1 program output into the phones, CH 2 selects the output of the audition boost amplifier in monaural and stereo consoles and the CH 2 program output in dual channel consoles. CUE directs the cue bus audio into the headphone amplifier and may be used for cueing when the console speaker is muted due to use of a control room microphone. AUX selects an external input available on the xmas tree block for headphone monitoring.

VU METER SELECTOR

Dual Stereo & Stereo-Mono Simulcast Consoles switch the two VU meters between the Ch 1 Program output & Ch 2 Program output. The push-push switch indicates Ch 1 when released and Ch 2 when operated. The LED peak level indicators continuously monitor all Program outputs and are not affected by the VU meter switch. Mono, Dual Mono and Stereo consoles do not require meter switching and a spare, unwired 6PDT Push-Push switch is provided.

PHASE TEST SWITCH

Stereo, Dual Stereo and Stereo-Mono SIMULCAST consoles include a PHASE test switch which permits an Audible test of cartridge, records, phone lines and music source material phasing by mono summing the monitor amplifier feeds. This switch affects only the monitor amplifier and has no effect on on-air program outputs. This switch is not a phase reversal control. Stereo source material can be auditioned or monitored off-air (through monitor aux input) and easily audibly checked for the quality of monaural signal provided. The Phase Test Switch is replaced with a spare unwired Push-Push 6PDT switch in monaural and dual monaural consoles.

CHANNEL BALANCE CONTROLS

Gain trim pots are located in the output amplifier of the program line drivers, the monitor drivers and headphone amplifier circuits. These controls are hand adjustable, factory preset and have a limited range of approximately three dB above & below nominal gain to take up circuit component tolerances and equalize gains between channels. These pots are located on the plug in circuit boards of their associated amplifiers.

SECTION IV

MAINTENANCE

GENERAL

All console models may be readily serviced without disturbing the installation. All internal assemblies and components may be exposed for servicing by raising the top cover and folding down the hinged front panel. Practically all the console audio circuitry is mounted to the front panel. Exceptions are the monitor output amplifiers, program output transformers and program output pad assemblies which are mounted together on a single chassis in the center rear of the cabinet. Refer to Fig. 2 for locations of all major internal assemblies.

Individual preamplifier assemblies may be made more accessible for servicing by popping the board off the plastic spacers. Circuits on the output circuit assembly board can be seen more clearly after removal of the shields mounted below the VU meters. This board is also spacer mounted and can be popped off for service. Its ground plane board support can also be removed by removing four front panel screws.

The upper monitor amplifier in stereo consoles (right channel) can be hinged up and away for access to the lower unit after removal of two side screws.

VOLTAGES

The power supply regulator is designed to supply +32 VDC with less than 2 mV ripple to the audio circuitry. The adjustment potentiometer on the regulator should be set for +32 volts between any red and black pair on the DC power distribution block. An unregulated output between +36 and +50 VDC appears between blue and black pairs and is used to power the output stages of the program, cue & monitor amplifiers and also to operate the muting relays. A crowbar SCR overcurrent sensor in the

regulator will shut off all regulated voltage in the event of a large current surge. The crowbar is reset by removing AC power for approximately one minute until the main filter capacitor discharges and allows the SCR to recover to a blocking state.

OPERATING POINTS

All integrated circuit amplifiers in the console are designed to set up with their + and - input terminals (pins 5 and 4) and the output terminal (pin 10) at one half the regulated supply voltage ± 1 volt. No measurable DC difference should be detected between pins 4 & 5 in a properly operating IC. In general, if the DC operating point is correct in an IC amplifier section, the amplifier is probably functioning correctly. The program line drivers, monitor drivers, headphone amplifiers and the cue/intercom along with all input preamplifiers are all integrated circuit amplifiers.

Discrete component circuits are used for the low noise mixing bus boost amplifiers. The setup voltage at the emitter of Q3 should be +9.5 volts in a properly operating circuit.

The operating point of the monitor amplifier is controlled by the regulated power supply to avoid low frequency "breathing" due to loading of the unregulated power supply and consequent slow changes in operating point. The dc operating point is stabilized by 100% DC feedback and should set up at ± 19 VDC measured on the positive terminal of the output coupling capacitor.

CONTACT CLEANING

PUSHBUTTON SWITCHES

These switches use a self cleaning wiping contact and generally require little service. However, if noise

the front metal bracket. This slider is permanently lubricated and will eventually jam if the lubricant is removed. Most cases of noisy or erratic operation can be cured by operating the switch rapidly on & off approximately 100 times.

LEVER KEY SWITCHES

These switches may be cleaned periodically with a spray cleaner and lint free cloth to remove dust accumulations.

MUTING RELAYS

The relay is of the plug in type and should be replaced if it becomes unreliable.

ROTARY FADERS

Covers of rotary faders may be removed for occasional inspection and cleaning. Occasional cleaning followed by a light coating of vaseline or lubricate on the contacts will reduce slider wear and minimize tarnish build up on the silver contacts.

PARTS LISTS

FRONT PANEL,AUDIO CONSOLE
PL7933-TAB

REF. SYM.	DESCRIPTION	MFG'S CODE	MFG'S PART NO.	REF. SYM.	DESCRIPTION	MFG'S CODE	MFG'S PART NO.
	Bezel Assy	27926	7546-501	J1	Phone Jack	82389	#N112B
	Switch, Lever	27926	B7101-1	R1	Master Pot, Simulcast	04880	16M289
	Attenuator, Monaural	27926	A7412-1	R1	Master Pot, Dual Stereo	04880	13M511
	Attenuator, Stereo	27926	A7412-2	R1	Master Pot, Dual Monaural	27926	A7290-1
	Knob, 2 1/8 Dia.	27926	#5003-7	R1	Master Pot, Monaural	27926	A7352-1
	Knob, 1 1/2 Dia.	27926	#5002-7	R1	Master Pot, Stereo	27926	A7352-2
	Knob, Ring	27926	A7291-1	R2	Monitor Pot, Monaural	27926	A7352-1
LS1	Speaker, 45 ohm, coil, 3 1/2" Dia.	04880	#3A07Z450T	R2	Monitor Pot, Stereo	27926	A7352-2
C1	Cap, 22 mF 80V	56289	#192P2249R8	R3	Cue Pot,	27926	A7352-1
C2	Cap, 22 mF 80V	56289	#192P2249R8	R4	Phone Pot, Stereo	27926	A7352-2
	Lamp, 28V, 40 MA	27926	#1819	R4	Phone Pot, Monaural	27926	A7352-1
	Socket, Lamp	04880	#4151-016	S15	Switch, P.B.	27926	A7102-4
M1	VU Meter	27926	A7117-1	S13	Switch, P.B	27926	A7102-4
M2	VU Meter	27926	A7117-1	S14	Switch, P.B.	27926	A7616-1

COMPONENT TYPES ARE TYPICAL OF ALL AUDIO CONSOLES.
FOR SPECIFIC REQUIREMENTS AND QUANTITIES, REFER TO
THE APPROPRIATE PARTS LIST.

OUTPUT MOTHER BOARD CIRCUIT ASSY.
ASSEMBLY NO. PL7900-504

REF. SYM.	DESCRIPTION	MFR'S CODE	MFR'S PART NO.	REF. SYM.	DESCRIPTION	MFR'S CODE	MFR'S PART NO.
C1	Cap, Disc, .01mF 1000V 20%	56289	5GA-S10	R13	Res, Car Comp 47 ohm 1W 5%	01121	RC32GF470J
C2	Cap, Disc, 470pF 1000V 20%	56289	5GA-T47	R14	Res, Car Comp 560 ohm 1/4W 5%	01121	RC07GF561J
C3	Cap, Disc, 470pF 1000V 20%	56289	5GA-T47	R15	Res, Car Comp 560 ohm 1/4W 5%	01121	RC07GF561J
C4	Cap, Disc, .002mF 1000V 20%	56289	5GA-D20	R16	Res, Car Comp 150K 1/4W 5%	01121	RC07GF154J
C5	Cap, Disc, .002mF 1000V 20%	56289	5GA-D20	R17	Res, Car Comp 150K 1/4W 5%	01121	RC07GF154J
R1	Res, Car Comp 3K 1/4W 5%	01121	RC07GF302J	R18	Res, Car Comp 150K 1/4W 5%	01121	RC07GF154J
R2	Res, Car Comp 12K 1/4W 5%	01121	RC07GF123J	R19	Res, Car Comp 150K 1/4W 5%	01121	RC07GF154J
R3	Res, Car Comp 3K 1/4W 5%	01121	RC07GF302J	R20	Res, Met Flm 1K 1/4W 2%	01121	RL07AD102G
R4	Res, Car Comp 12K 1/4W 5%	01121	RC07GF123J	R21	Res, Met Flm 1K 1/4W 2%	01121	RL07AD102G
R5	Res, Car Comp 3K 1/4W 5%	01121	RC07GF302J	R22	Res, Met Flm 1K 1/4W 2%	01121	RL07AD102G
R6	Res, Car Comp 12K 1/4W 5%	01121	RC07GF123J	R23	Res, Met Flm 1K 1/4W 2%	01121	RL07AD102G
R7	Res, Car Comp 3K 1/4W 5%	01121	RC07GF302J	R24	Res, Met Flm 1K 1/4W 2%	01121	RL07AD102G
R8	Res, Car Comp 12K 1/4W 5%	01121	RC07GF123J	R25	Res, Met Flm 1K 1/4W 2%	01121	RL07AD102G
R9	Res, Met Flm 10K 1/4W 2%	01121	RL07AD103G	R26	Res, Met Flm 10K 1/4W 2%	01121	RL07AD103G
R10	Res, Met Flm 10K 1/4W 2%	01121	RL07AD103G	R27	Res, Met Flm 10K 1/4W 2%	01121	RL07AD103G
R11	Res, Met Flm 1K 1/4W 2%	01121	RL07AD102G	R28	Res, Car Comp 75 ohm 1W 5%	01121	RC32GF750J
R12	Res, Car Comp, 27K 1/2W 5%	01121	RC20GF273J		Board,P.C.,Output Mother Board	27926	D7901-501

COMPONENT TYPES ARE TYPICAL FOR ALL MODELS, SEE APPROPRIATE
SCHEMATIC, C7920-TAB, FOR SPECIFIC QUANTITIES REQUIRED.

PROGRAM CIRCUIT ASSEMBLY
PL7903

CUE INTERCOM CIRCUIT ASSEMBLY
PL7909

REF. SYM.	DESCRIPTION	MFR'S CODE	MFR'S PART NO.	REF. SYM.	DESCRIPTION	MFR'S CODE	MFR'S PART NO.
A1	Operational Amp 709 DIP	27926	8226-1	A1	Operational Amp. 709 DIP	27926	8226-1
Q1	Trans.	09019	2N5232A	A2	Operational Amp. 709 DIP	27926	8226-1
Q2	Trans.	09019	2N5232A	Q1	Trans,	18714	2N2102
Q3	Trans.	09019	2N5232A	Q2	Trans,	18714	2N4314
Q4	Trans.	18714	2N2102	Q3	Trans,	09019	2N5172
Q5	Trans.	18714	2N4314	CR1	Trans,	09019	IN4148
CR1	Trans.	09019	2N5172	CR2	Diode, Silicon	56289	5GA-S10
C1	Cap, Disc 3300pF/1000V/20%	56289	5GA-D33	C1	Cap, Disc .01mf/1000V/20%	56289	192P4739R8
C2	Cap, Elec. 47mf/6V/20%	27926	B9265-16	C2	Cap, Film .047mf/80V/20%	27926	B9265-8
C3	Cap, Elec. 10mf/35V/30%	27926	B9265-8	C3	Cap, Elec. 10mf/35V/20%	27926	B9265-8
C4	Cap, Elec. 47mf/6V/20%	27926	B9265-16	C4	Cap, Elec. 10mf/35V/20%	56289	5GA-T10
C5	Cap, Elec. 10mf/35V/20%	27926	B9265-8	C5	Cap, Disc 100pF/1000V/20%	56289	5GA-V50
C6	Cap, Elec. 10mf/35V/20%	27926	B9265-8	C6	Cap, Disc 5pF/1000V/20%	27926	B9265-8
C7	Cap, Disc .002mf/1000V/20%	56289	5GA-D20	C7	Cap, Elec. 10mf/35V/20%	56289	192P2239R8
C8	Cap, Elec. 10mf/35V/20%	27926	B9265-8	C8	Cap, Film .02mf/80V/20%	27926	B9265-8
C9	Cap, Elec. 10mf/35V/20%	27926	B9265-8	C9	Cap, Elec. 10mf/35V/20%	27926	B9265-8
C10	Cap, Alum. 50mf/25V	27926	B9265-28	C10	Cap, Elec. 10mf/35V/20%	56289	5GA-T10
C11	Cap, Disc 100pF/1000V/20%	56289	5GA-T10	C11	Cap, Disc 100pF/1000V/20%	56289	5GA-T10
C12	Cap, Disc 5pF/1000V/20%	56289	5GA-V50	C12	Cap, Disc 5pF/1000V/20%	27926	B9265-8
C13	Cap, Tant 6.8mf/35V/20%	56289	CS13BF685K	C13	Cap, Elec. 10mf/35V/20%	27926	B9265-8
C14	Cap, Elec. 10mf/35V/20%	27926	B9265-8	C14	Cap, Alum. 35mf/50V	27926	B9265-15
C15	Cap, Alum. 100mf/50V/20%	27926	B9265-21	R4	Res, Metal Film 1K, 1/4W 2%	01121	RL07AD102G
R1	Res, Metal Film 62K 1/4W 2%	01121	RL07AD623G	R5	Res, Metal Film .1Meg 1/4W 2%	01121	RL07AD104G
R2	Res, Metal Film 51 ohms 1/4W 2%	01121	RL07AD510G	R6	Res, Car, Comp 1Meg 1/4W 5%	01121	RC07GF150J
R3	Res, Car, Comp 220K 1/4W 5%	01121	RC07GF224G	R7	Res, Car, Comp 1Meg 1/4W 5%	01121	RC07GF105J
R4	Res, Metal Film 2.7K 1/4W 2%	01121	RL07AD272G	R8	Res, Metal Film 470 ohm 1/4W 2%	01121	RL07AD471G
R5	Res, Car, Comp 10K 1/4W 5%	01121	RC07GF103J	R9	Res, Metal Film 47K 1/4W 2%	01121	RL07AD473G
R6	Res, Car, Comp 27K 1/4W 5%	01121	RC07GF273J	R10	Res, Car, Comp 1.5K 1/4W 5%	01121	RC07GF472J
R7	Res, Car, Comp 1K 1/4W 5%	01121	RC07GF102J	R11	Res, Car, Comp 4.7K 1/4W 5%	01121	RC07GF561J
R8	Res, Car, Comp 2.2K 1/4W 5%	01121	RC07GF222J	R12	Res, Car, Comp 560 ohm 1/4W 5%	01121	RC07GF105J
R9	Res, Car, Comp 100ohm 1/4W 5%	01121	RC07GF101J	R13	Res, Car, Comp 1Meg 1/4W 5%	01121	RL07AD472G
R10	Res, Car, Comp 4.7K 1/4W 5%	01121	RC07GF472J	R14	Res, Metal Film 4.7K 1/4W 2%	01121	RC07GF105J
R11	Res, Car, Comp 560ohm 1/4W 5%	01121	RC07GF561J	R15	Res, Car, Comp 1Meg 1/4W 5%	01121	RC07GF152J
R12	Res, Metal Film .1Meg 1/4W 2%	01121	RL07AD104G	R16	Res, Car, Comp 1.5K 1/4W 5%	01121	RC20GF474J
R13	Res, Car, Comp 1Meg 1/4W 5%	01121	RC07GF105J	R17	Res, Car, Comp 470K 1/2W 5%	01121	RC07GF102J
R14	Res, Car, Comp 1Meg 1/4W 5%	01121	RC07GF105J	R18	Res, Car, Comp 1K 1/4W 5%	01121	RC07GF152J
R15	Res, Car, Comp 270ohm 1/4W 5%	01121	RC07GF271J	R19	Res, Car, Comp 1.5K 1/4W 5%	01121	RC20GF330J
R16	Res, Car, Comp 180K 1/2W 5%	01121	RC20GF184J	R20	Res, Car, Comp 33 ohm 1/2W 5%	01121	RC07GF3R3J
R17	Res, Car, Comp 1.5K 1/4W 5%	01121	RC07GF152J	R21	Res, Car, Comp 3.3 ohm 1/4W 5%	01121	RC07GF3R3J
R18	Res, Metal Film 39K 1/4W 2%	01121	RL07AD393G	R22	Res, Car, Comp 3.3 ohm 1/4W 5%	01121	RC07GF472J
R19	Res, Car, Comp 1K 1/4W 5%	01121	RC07GF102J	R23	Res, Car, Comp 4.7K 1/4W 5%	27926	583527-1
R20	Res, Car, Comp 1.5K 1/4W 5%	01121	RC07GF152J	R24	Res, Car, Comp 4.7K 1/4W 5%	27926	7910-501
R21	Res, Car, Comp 100 ohm 1/4W 5%	01121	RC07GF101J		Sockets, I.C.		
R22	Res, Car, Comp 33 ohm 1/2W 5%	01121	RC20GF330J		P.C. Board Cue/Intercom	27926	
R23	Res, Car, Comp 3.3 ohm 1/4W 5%	01121	RC07GF3R3J				
R24	Res, Car, Comp 3.3 ohm 1/4W 5%	01121	RC07GF3R3J				
R25	Res, Car, Trim. 250ohm 1/4W 20%	75042	C201R251B				
	Sockets, IC	27926	583527-1				
	P.C. Bd, Program Circuit	27926	7904-501				

AUDITION CIRCUIT ASSY
PL7906-501

AUDITION CIRCUIT ASSY
PL7906-502

REF. SYM.	DESCRIPTION	MFR'S CODE	MFR'S PART NO.	REF. SYM.	DESCRIPTION	MFR'S CODE	MFR'S PART NO.
A1	Operational Amp. 709 DIP	27926	8226-1	A1	Operational Amp. 709 DIP	27926	8226-1
Q1	Transistor	56289	2N5232A		Sockets, I. C.	27926	583527-1
Q2	Transistor	56289	2N5232A	C1			
Q3	Transistor	56289	2N5232A	C2			
	Sockets, I.C.	27926	583527-1	C3			
C1	Cap, Disc 3300 PFD/1000V/20%	56289	5GA-D33	C4			
C2	Cap, Elec, 47MFD/6V/20%	27926	B9265-16	C5			
C3	Cap, Elec, 10MFD/35V/20%	27926	B9265-8	C6			
C4	Cap, Elec, 47MFD/6V/20%	27926	B9265-16	C7			
C5	Cap, Elec, 10MFD/35V/20%	27926	B9265-8	C8	Cap, Elec. 10MFD/35V/20%	27926	B9265-8
C6	Cap, Elec, 10MFD/35V/20%	27926	B9265-8	C9	Cap, Elec. 10MFD/35V/20%	27926	B9265-8
C7				C10	Cap, Elec. 10MFD/35V/20%	27926	B9265-8
C8	Cap, Elec, 10MFD/35V/20%	27926	B9265-8	C11	Cap, Disc. 200pF/1000V/20%	56289	5GA-T20
C9	Cap, Elec, 10MFD/35V/20%	27926	B9265-8	C12	Cap, Disc. 5pF/1000V/20%	56289	5GA-V50
C10	Cap, Elec, 10MFD/35V/20%	27926	B9265-8	C13	Cap, Elec. 10MFD/35V/20%	27926	B9265-8
C11	Cap, Disc 200pF/1000V/20%	56289	5GA-T20	C14	Cap, Disc. .001MFD/1000V/20%	56289	5GA-D10
C12	Cap, Disc 5pF/1000V/20%	56289	5GA-V50	R1			
C13	Cap, Elec, 10MFD/35V/20%	27926	B9265-8	R2			
C14	Cap, Disc, .001MFD/1000V/20%	56289	5GA-D10	R3			
R1	Res, Metal Film 62K, 1/4W 2%	01121	RL07AD623G	R4			
R2	Res, Metal Film 51 ohm 1/4W 2%	01121	RL07AD510G	R5			
R3	Res, Car, Comp 220K 1/4W 5%	01121	RC07GF224J	R6			
R4	Res, Metal Film 2.7K 1/4W 2%	01121	RL07AD272G	R7			
R5	Res, Car, Comp 10K 1/4W 5%	01121	RC07GF103J	R8			
R6	Res, Car, Comp 27K 1/4W 5%	01121	RC07GF273J	R9			
R7	Res, Car, Comp 1K 1/4W 5%	01121	RC07GF102J	R10			
R8	Res, Car, Comp 2.2K 1/4W 5%	01121	RC07GF222J	R11			
R9	Res, Car, Comp 100 Ohm 1/4W 5%	01121	RC07GF101J	R12			
R10	Res, Car, Comp 4.7K 1/4W 5%	01121	RC07GF472J	R13			
R11	Res, Car, Comp 22K 1/4W 5%	01121	RC07GF223J	R14	Res, Metal Film .1M, 1/4W 2%	01121	RL07AD104G
R14	Res, Metal Film .1M, 1/4W 2%	01121	RL07AD104G	R15	Res, Car, Comp. 1M 1/4W 5%	01121	RC07GF105J
R15	Res, Car, Comp 1M, 1/4W 5%	01121	RC07GF105J	R16	Res, Car, Comp. 1Meg 1/4W 5%	01121	RC07GF105J
R16	Res, Car, Comp 1M, 1/4W 5%	01121	RC07GF105J	R17	Res, Metal Film 10K, 1/4W 2%	01121	RL07AD103G
R17	Res, Metal Film 10K, 1/4W 2%	01121	RL07AD103G	R18	Res, Car, Comp 300K 1/2W 5%	01121	RC20GF304J
R18	Res, Car, Comp 300K, 1/2W 5%	01121	RC20GF304J	R19	Res, Car, Comp 1.5K 1/4W 5%	01121	RC07GF152J
R19	Res, Car, Comp 1.5K, 1/4W 5%	01121	RC07GF152J	R20	Res, Car, Comp 4.7K 1/4W 5%	01121	RC07GF472J
R20	Res, Car, Comp 4.7K, 1/4W 5%	01121	RC07GF472J	R21	Res, Car, Comp 10K 1/4W 5%	01121	RC07GF103J
R21	Res, Car, Comp 10K, 1/4W 5%	01121	RC07GF103J	R22	Res, Car, Comp 5.6K 1/4W 5%	01121	RC07GF562J
R22	Res, Car, Comp 5.6K, 1/4W 5%	01121	RC07GF562J	R23	Res, Car, Comp 2.7K 1/4W 5%	01121	RC07GF272J
R23	Res, Car, Comp 2.7K, 1/4W 5%	01121	RC07GF272J	R24	Res, Car, Trimmer 10K 1/4W 20%	75042	C201R103B
R24	Res, Car, Trimmer 10K 1/4W 20%	75042	C201R103B	R25			
R25	Res, Car, Comp 560 1/4W 5%	01121	RC07GF561J		P.C. Board, Audition	27926	B7907-501
	P.C. Board, Audition	27926	B7907-501				

PHONE AMPLIFIER CIRCUIT ASSY.
ASSEMBLY NO. PL7912-502

REF. SYM.	DESCRIPTION	MFG'S CODE	MFG'S PART NO.	REF. SYM.	DESCRIPTION	MFG'S CODE	MFG'S PART NO.
Z1A1	I.C., Operational Amp.	27926	B8226-1	Z1R9	Res, Met Flm 470 ohm 1/4W 2%	01121	RL07AD471G
Z2A1	I.C., Operational Amp.	27926	B8226-1	Z1R10	Res, Car Comp 1.5K 1/4W 5%	01121	RC07GF152J
Z1C1	Cap, Elec, 10mF 35V 20%	74840	B9265-8	Z1R11	Res, Car Comp 470K 1/2W 5%	01121	RC20GF474J
Z1C2	Cap, Elec, 10mF 35V 20%	74840	B9265-8	Z1R12	Res, Car Comp 4.7K 1/4W 5%	01121	RC07GF472J
Z1C3	Cap, Elec, 10mF 35V 20%	74840	B9265-8	Z1R13	Res, Car Comp 220 ohm 1/4W 5%	01121	RC07GF221J
Z1C4	Cap, Disc, 10pF 1000V 20%	56289	5GA-Q10	Z1R14	Res, Car Comp 10K 1/4W 5%	01121	RC07GF103J
Z1C5	Cap, Disc, 5pF 1000V 20%	56289	5GA-V50	Z2R6	Res, Met Flm .1 Meg 1/4W 2%	01121	RL07AD104J
Z1C6	Cap, Elec, 10mF 35V 20%	74840	B9265-8	Z2R7	Res, Car Comp 1.0 Meg 1/4W 5%	01121	RC07GF105J
Z2C1	Cap, Elec, 10mF 35V 20%	74840	B9265-8	Z2R8	Res, Car Comp 1.0 Meg 1/4W 5%	01121	RC07GF105J
Z2C2	Cap, Elec, 10mF 35V 20%	74840	B9265-8	Z2R9	Res, Met Flm 330 ohm 1/4W 2%	01121	RL07AD331G
Z2C3	Cap, Elec, 10mF 35V 20%	74840	B9265-8	Z2R10	Res, Car Comp 1.5K 1/4W 5%	01121	RC07GF152J
Z2C4	Cap, Disc, 10pF 1000V 20%	56289	5GA-Q10	Z2R11	Res, Car Comp 470K 1/4W 5%	01121	RC20GF474J
Z2C5	Cap, Disc, 5pF 1000V 20%	56289	5GA-V50	Z2R12	Res, Car Comp 4.7K 1/4W 5%	01121	RC07GF472J
Z2C6	Cap, Elec, 10mF 35V 20%	74840	B9265-8	Z2R13	Res, Car Comp 220 ohm 1/4W 5%	01121	RC07GF221J
Z1R6	Res, Met Flm .1 Meg 1/4W 2%	01121	RL07AD104G	Z2R14	Res, Car Comp 10K 1/4W 5%	01121	RC07GF103J
Z1R7	Res, Car Comp 1.0 Meg 1/4W 5%	01121	RC07GF105J	Z2R15	Res, Car Trim 250 ohm 1/4W 5%	75042	#C201R251B
Z1R8	Res, Car Comp 1.0 Meg 1/4W 5%	01121	RC07GF105J		Board, P.C., Phone Amplifier	27926	B7913-501

COMPONENT TYPES ARE TYPICAL FOR ALL MODELS, SEE APPROPRIATE SCHEMATIC, C7957, FOR SPECIFIC QUANTITIES REQUIRED.

INPUT PREAMP CIRCUIT ASSY (MONAURAL)
(MIKE PREAMP)
PL 7145-501

REF. SYM.	DESCRIPTION	MFR'S CODE	MFR'S PART NO.	REF. SYM.	DESCRIPTION	MFR'S CODE	MFR'S PART NO.
C1	Cap, Elec. 10uF/35V	27926	B9265-8	R11			
C2				R12	Res, Car, 1/4W 5% 10K	01121	RC07GF103J
C3	Cap, Disc, 500pF	56289	5GA-T50	R13	Res, Metal 1/4W 2% 200Ω	01121	RL07AD201G
C4	Cap, Disc, 20pF	56289	5GA-Q20	R14	Res, Car, 1/4W 5% 10K	01121	RC07GF103J
C5	Cap, Elec. 50uF/50V	27926	B9265-18	R15	Res, Car, 1/4W 5% 560Ω	01121	RC07GF561J
C6	Cap, Elec. 50uF/50V	27926	B9265-18	R16			
R1	Res, Car, 1/4W 5% 1M	01121	RC07GF105J	R17			
R2	Res, Car, 1/4W 5% 1M	01121	RC07GF105J	R18			
R3	Res, Metal 1/4W 2% 10K	01121	RL07AD103G	R19			
R4	Res, Metal 1/4W 2% 100K	01121	RL07AD104G	R20	Res, Car, 1/4W 5% 4.7K	01121	RC07GF472J
R5	Res, Metal 1/4W 2% 1.5K	01121	RL07AD152G	R21			
R6	Res, Car, 1/4W 5% 47Ω	01121	RC07GF470J	R22			
R7	Res, Car, 1/4W 5% 1K	01121	RC07GF102J	Q1	I.C. 709C	27926	A8226-1
R8				S1-4	Assy, Switch, P.B.	27926	A7102-2
R9				T1	Trans, Mic Input	27926	A7141-2
R10					P.C. Board, Input Preamp	27926	7144-501

INPUT PREAMP CIRCUIT ASSY (MONAURAL)
(HI-LEVEL PREAMP)
PL 7145-502

INPUT PREAMP CIRCUIT ASSY (MONAURAL)
(HI-LEVEL/REMOTE PREAMP)
PL 7145-503

REF. SYM.	DESCRIPTION	MFG'S CODE	MFG'S PART NO.	REF. SYM.	DESCRIPTION	MFG'S CODE	MFG'S PART NO.
C1	Cap, Elec. 10uF/35V	27926	B9265-8	C1	Cap, Elec, 10uF/35V	27926	B9265-8
C2				C2			
C3	Cap, Disc, 2000pF	56289	5GA-D20	C3	Cap, Disc, 2000pF	56289	5GA-D20
C4	Cap, Disc, 82pF	56289	5GA-Q82	C4	Cap, Disc, 82pF	56289	5GA-Q82
C5	Cap, Elec, 50uF/50V	27926	B9265-18	C5	Cap, Elec. 50uF/50V	27926	B9265-18
C6	Cap, Elec, 50uF/50V	27926	B9265-18	C6	Cap, Elec. 50uF/50V	27926	B9265-18
C7	Cap, Disc, .001uF	56289	5GA-D10	C7	Cap, Disc, .001uF	56289	5GA-D10
R1	Res, Car, 1/4W 5% 1M	01121	RC07GF105J	R1	Res, Car, 1/4W 5% 1M	01121	RC07GF105J
R2	Res, Car, 1/4W 5% 1M	01121	RC07GF105J	R2	Res, Car, 1/4W 5% 1M	01121	RC07GF105J
R3	Res, Metal 1/4W 2% 7.5K	01121	RL07AD752G	R3	Res, Metal 1/4W 2% 7.5K	01121	RL07AD752G
R4	Res, Metal 1/4W 2% 22K	01121	RL07AD223G	R4	Res, Metal 1/4W 2% 22K	01121	RL07AD223G
R5	Res, Metal 1/4W 2% 1.5K	01121	RL07AD152G	R5	Res, Metal 1/4W 2% 1.5K	01121	RL07AD152G
R6	Res, Car, 1/4W 5% 47Ω	01121	RC07GF470J	R6	Res, Car, 1/4W 5% 47Ω	01121	RC07GF470J
R7	Res, Car, 1/4W 5% 1K	01121	RC07GF102J	R7	Res, Car, 1/4W 5% 1K	01121	RC07GF102J
R8				R8			
R9				R9			
R10				R10			
R11				R11			
R12				R12			
R13				R13			
R14				R14			
R15				R15			
R16	Res, Car, 1/4W 5% 2.4K	01121	RC07GF242J	R16	Res, Car, 1/4W 5% 2.4K	01121	RC07GF242J
R17	Res, Car, 1/4W 5% 620Ω	01121	RC07GF621J	R17	Res, Car, 1/4W 5% 620Ω	01121	RC07GF621J
R18	Res, Car, 1/4W 5% 2.4K	01121	RC07GF242J	R18	Res, Car, 1/4W 5% 2.4K	01121	RC07GF242J
R19				R19			
R20	Res, Car, 1/4W 5% 4.7K	01121	RC07GF472J	R20	Res, Car, 1/4W 5% 4.7K	01121	RC07GF472J
R21	Res, Metal 1/4W 2% 270Ω	01121	RL07AD271G	R21	Res, Metal 1/4W 2% 270	01121	RL07AD271G
R22	Res, Metal 1/4W 2% 270Ω	01121	RL07AD271G	R22	Res, Metal 1/4W 2% 270	01121	RL07AD271G
Q1	I.C.	27926	A8226-1	Q1	I.C.	27926	A8226-1
S1-4	Assv. Switch, P.B.	27926	A7102-2	S1-4	Assv. Switch, P.B.	27926	A7102-2
T1	Transformer Hi Level Input P.C. Board, Input Preamp	27926	A7142-2 7114-501	T1	Trans, Hi Level Input P.C. Board, Input Preamp	27926	A7142-2 7144-501

INPUT PREAMP CIRCUIT ASSY (STEREO)
(MIKE PREAMP)
PL 7355-501

REF. SYM.	DESCRIPTION	MFG'S CODE	MFG'S PART NO.	REF. SYM.	DESCRIPTION	MFG'S CODE	MFG'S PART NO.
Z1C1	Cap, Tant. 10uF/35VDC	27926	B9265-8	Z1R20	Res, Car, 1/4W 5% 560Ω	01121	RC07GF561J
Z1C2	Cap, Disc, 500uF/1000V 20%	56289	5GA-T50	Z1R21	Res, Car, 1/4W 5% 10K	01121	RC07GF103J
Z1C3	Cap, Disc, 20pF/1000V 20%	56289	5GA-Q20	Z2R1	Res, Car, 1/4W 5% 1M	01121	RC07GF105J
Z1C4	Cap, Alum. 50uF/50V	27926	B9265-18	Z2R2	Res, Car, 1/4W 5% 1M	01121	RC07GF105J
Z1C5	Cap, Alum. 50uF/50V	27926	B9265-18	Z2R3	Res, Metal, 1/4W 2% 10K	01121	RL07AD103G
Z2C1	Cap, Tant. 10uF/35V	27926	B9265-8	Z2R4	Res, Metal 1/4W 2% 100K	01121	RL07AD104G
Z2C2	Cap, Disc 500pF/1000V 20%	56289	5GA-T50	Z2R5	Res, Car, 1/4W 5% 1.5K	01121	RC07GF152J
Z2C3	Cap, Disc, 20pF/1000V 20%	56289	5GA-Q20	Z2R6	Res, Car, 1/4W 5% 47Ω	01121	RC07GF470J
Z2C4	Cap, Alum. 50uF/50V	27926	B9265-18	Z2R7	Res, Car, 1/4W 5% 4.7K	01121	RC07GF472J
Z2C5	Cap, Alum, 50uF/50V	27926	B9265-18	Z2R8	Res, Car, 1/4W 5% 1K	01121	RC07GF102J
Z1R1	Res, Car, 1/4W 5% 1M	01121	RC07GF105J	Z2R9			
Z1R2	Res, Car, 1/4W 5% 1M	01121	RC07GF105J	Z2R10			
Z1R3	Res, Metal 1/4W 2% 10K	01121	RL07AD103G	Z2R11			
Z1R4	Res, Metal 1/4W 2% 100K	01121	RL07AD104G	Z2R12			
Z1R5	Res, Car, 1/4W 5% 1.5K	01121	RC07GF152J	Z2R13			
Z1R6	Res, Car, 1/4W 5% 47Ω	01121	RC07GF470J	Z2R14			
Z1R7	Res, Car, 1/4W 5% 4.7K	01121	RC07GF472J	Z2R15			
Z1R8	Res, Car, 1/4W 5% 1K	01121	RC07GF102J	Z2R16			
Z1R9				Z2R17			
Z1R10				Z2R18	Res, Metal 1/4W 2% 200Ω	01121	RL07AD201G
Z1R11				Z2R19	Res, Car, 1/4W 5% 10K	01121	RC07GF103J
Z1R12				Z2R20	Res, Car, 1/4W 5% 560Ω	01121	RC07GF561J
Z1R13				Z2R21	Res, Car, 1/4W 5% 10K	01121	RC07GF103J
Z1R14				Z1A1	I.C. Op AMP	27926	A8226-1
Z1R15				Z2A1	I.C. Op AMP	27926	A8226-1
Z1R16				Z1T1	Transformer, Mic Input	27926	A7141-2
Z1R17				Z2T1	Transformer, Mic Input	27926	A7141-2
Z1R18	Res, Metal 1/4W 2% 200Ω	01121	RL07AD201G		P.C. Board, Input Preamp	27926	7374-501
Z1R19	Res, Car, 1/4W 5% 10K	01121	RC07GF103J	SI-4	Assy, Switch, P.B.	27926	A7102-3

INPUT PREAMP CIRCUIT ASSY (STEREO)
(HI-LEVEL PREAMP)
PL 7355-502

REF. SYM.	DESCRIPTION	MFG'S CODE	MFG'S PART NO.	REF. SYM.	DESCRIPTION	MFG'S CODE	MFG'S PART NO.
Z1C1	Cap, Tant. 10uF/35VDC	27926	B9265-8	Z1R15	Res, Metal 1/4W 2% 270Ω	01121	RL07AD271G
Z1C2	Cap, Disc, 2000pF/1000V 20%	56289	5GA-D20	Z1R16	Res, Metal 1/4W 2% 270Ω	01121	RL07AD271G
Z1C3	Cap, Disc, 82pF/1000V 20%	56289	5GA-Q82	Z1R17	Res, Car, 1/4W 5% 2.4K	01121	RC07GF242J
Z1C4	Cap, Alum. 50uF/50V	27926	B9265-18	Z2R1	Res, Car, 1/4W 5% 1M	01121	RC07GF105J
Z1C5	Cap, Alum. 50uF/50V	27926	B9265-18	Z2R2	Res, Car, 1/4W 5% 1M	01121	RC07GF105J
Z1C6	Cap, Disc, .001uF/1000V	56289	5GA-D10	Z2R3	Res, Metal 1/4W 2% 7.5K	01121	RL07AD752G
Z2C1	Cap, Tant. 10uF/35V	27926	B9265-8	Z2R4	Res, Metal 1/4W 2% 22K	01121	RL07AD104G
Z2C2	Cap, Disc, 2000pF/1000V 20%	56289	5GA-D20	Z2R5	Res, Car, 1/4W 5% 1.5K	01121	RC07GF152J
Z2C3	Cap, Disc, 82pF/1000V 20%	56289	5GA-Q82	Z2R6	Res, Car, 1/4W 5% 47Ω	01121	RC07GF470J
Z2C4	Cap, Alum. 50uF/50V	27926	B9265-18	Z2R7	Res, Car, 1/4W 5% 4.7K	01121	RC07GF472J
Z2C5	Cap, Alum. 50uF/50V	27926	B9265-18	Z2R8	Res, Car, 1/4W 5% 1K	01121	RC07GF102J
Z2C6	Cap, Disc, .001uF/1000V	56289	5GA-D10	Z2R9			
Z1R1	Res, Car, 1/4W 5% 1M	01121	RC07GF105J	Z2R10			
Z1R2	Res, Car, 1/4W 5% 1M	01121	RC07GF105J	Z2R11			
Z1R3	Res, Metal 1/4W 2% 7.5K	01121	RL07AD752G	Z2R12			
Z1R4	Res, Metal 1/4W 2% 22K	01121	RL07AD223G	Z2R13	Res, Car, 1/4W 5% 620Ω	01121	RC07GF621J
Z1R5	Res, Car, 1/4W 5% 1.5K	01121	RC07GF152J	Z2R14	Res, Car, 1/4W 5% 2.4K	01121	RC07GF242J
Z1R6	Res, Car, 1/4W 5% 47Ω	01121	RC07GF470J	Z2R15	Res, Metal 1/4W 2% 270Ω	01121	RL07AD271G
Z1R7	Res, Car, 1/4W 5% 4.7K	01121	RC07GF472J	Z2R16	Res, Metal 1/4W 2% 270Ω	01121	RL07AD271G
Z1R8	Res, Car, 1/4W 5% 1K	01121	RC07GF102J	Z2R17	Res, Car, 1/4W 5% 2.4K	01121	RC07GF242J
Z1R9				Z1A1	I.C. Op AMP	27926	A8226-1
Z1R10				Z2A1	I.C. Op AMP	27926	A8226-1
Z1R11				Z1T1	Transformer, Hi Level Input	27926	A7142-2
Z1R12				Z2T2	Transformer, Hi Level Input	27926	A7142-2
Z1R13	Res, Car, 1/4W 5% 620Ω	01121	RC07GF621J		P.C. Board, Input Preamp	27926	7374-501
Z1R14	Res, Car, 1/4W 5% 2.4K	01121	RC07GF242J				

INPUT PREAMP CIRCUIT ASSY (STEREO)
(HI-LEVEL/REMOTE PREAMP)
PL 7355-503

REF. SYM.	DESCRIPTION	MFG'S CODE	MFG'S PART NO.	REF. SYM.	DESCRIPTION	MFG'S CODE	MFG'S PART NO.
Z1C1	Cap, Tant. 10uF/35VDC	27926	B9265-8	Z1R15	Res, Metal 1/4W 2% 270Ω	01121	RL07AD271G
Z1C2	Cap, Disc, 2000pF/1000V 20%	56289	5GA-D20	Z1R16	Res, Metal 1/4W 2% 270Ω	01121	RL07AD271G
Z1C3	Cap, Disc, 82pF,1000V 50%	56289	5GA-Q82	Z1R17	Res, Car, 1/4W 5% 2.4K	01121	RC07GF242J
Z1C4	Cap, Alum. 50uF/50V	27926	B9265-18	Z2R1	Res, Car, 1/4W 5% 1M	01121	RC07GF105J
Z1C5	Cap, Alum. 50uF/50V	27926	B9265-18	Z2R2	Res, Car, 1/4W 5% 1M	01121	RC07GF105J
Z1C6	Cap, Disc, .001uF/1000V	56289	5GA-D10	Z2R3	Res, Metal 1/4W 2% 7.5K	01121	RL07AD752G
Z2C1	Cap, Tant. 10uF/35V	27926	B9265-8	Z2R4	Res, Metal 1/4W 2% 22K	01121	RL07AD104G
Z2C2	Cap, Disc, 2000pF/1000V 20%	56289	5GA-D20	Z2R5	Res, Car, 1/4W 5% 1.5K	01121	RC07GF152J
Z2C3	Cap, Disc, 82pF/1000V 20%	56289	5GA-Q82	Z2R6	Res, Car, 1/4W 5% 47Ω	01121	RC07GF470J
Z2C4	Cap, Alum, 50uF/50V	27926	B9265-18	Z2R7	Res, Car, 1/4W 5% 4.7K	01121	RC07GF472J
Z2C5	Cap, Alum, 50uF/50V	27926	B9265-18	Z2R8	Res, Car, 1/4W 5% 1K	01121	RC07GF102J
Z2C6	Cap, Disc, .001uF/1000V	56289	5GA-D10	Z2R9			
Z1R1	Res, Car, 1/4W 5% 1M	01121	RC07GF105J	Z2R10			
Z1R2	Res, Car, 1/4W 5% 1M	01121	RC07GF105J	Z2R11			
Z1R3	Res, Metal 1/4W 2% 7.5K	01121	RL07AD752G	Z2R12			
Z1R4	Res, Metal 1/4W 2% 22K	01121	RL07AD223G	Z2R13	Res, Car, 1/4W 5% 620Ω	01121	RC07GF621J
Z1R5	Res, Car, 1/4W 5% 1.5K	01121	RC07GF152J	Z2R14	Res, Car, 1/4W 5% 2.4K	01121	RC07GF242J
Z1R6	Res, Car, 1/4W 5% 47Ω	01121	RC07GF470J	Z2R15	Res, Metal 1/4W 2% 270Ω	01121	RL07AD271G
Z1R7	Res, Car, 1/4W 5% 4.7K	01121	RC07GF472J	Z2R16	Res, Metal 1/4W 2% 270Ω	01121	RL07AD271G
Z1R8	Res, Car, 1/4W 5% 1K	01121	RC07GF102J	Z2R17	Res, Car, 1/4W 5% 2.4K	01121	RC07GF242J
Z1R9				Z1A1	I.C. Op AMP	27926	A8226-1
Z1R10				Z2A1	I.C. Op AMP	27926	A8226-1
Z1R11				Z1T1	Transformer, Hi Level Input	27926	A7142-2
Z1R12				Z2T1	Transformer, Hi Level Input	27926	A7142-2
Z1R13	Res, Car, 1/4W 5% 620Ω	01121	RC07GF621J		P.C. Board, Input Preamp	27926	7374-501
Z1R14	Res, Car, 1/4W 5% 2.4K	01121	RC07GF242J				

LED DRIVER BOARD ASSY
PL7961-502

REF. SYM.	DESCRIPTION	MFG'S CODE	MFG'S PART NO.	REF. SYM.	DESCRIPTION	MFG'S CODE	MFG'S PART NO.
Z1C1	Cap, Elec. 4.7uF/35VDC	74840	Elna "R"	Z1R19	Res, Car, 1/4W 5% 470K	01121	RC07GF474J
Z1C2	Cap, Flm. .047uF/100V 10%	23783	106-20-045	Z1R20	Res, Car, 1W 5% 2K	01121	RC32GF202J
Z1C3	Cap, Flm. .047uF/100V 10%	23783	106-20-045	Z1R21	Res, Car, 1W 5% 2K	01121	RC32GF202J
Z1C4	Cap, Flm. .047uF/100V 10%	23783	106-20-045	Z1R22	Res, Car, 1W 5% 2K	01121	RC32GF202J
Z1C5	Cap, Flm. .047uF/100V 10%	23783	106-20-045	Z1R23	Res, Car, 1W 5% 2K	01121	RC32GF202J
Z1C6	Cap, Elec, 47uF/50VDC	74840	Elna "R"	Z2R1	Res, Pot, 50K	04880	PT10H-2.5-50K
Z1C7	Cap, Elec, 4.7uF/35VDC	74840	Elna "R"	Z2R2	Res, Metal 1/4W 2% 47K	01121	RL07AD473G
Z2C1	Cap, Elec, 4.7uF/35VDC	74840	Elna "R"	Z2R3	Res, Metal 1/4W 2% 47K	01121	RL07AD473G
Z2C2	Cap, Flm. .047uF/100V 10%	23783	106-20-045	Z2R4	Res, Metal 1/4W 2% 47K	01121	RL07AD473G
Z2C3	Cap, Flm. .047uF/100V 10%	23783	106-20-045	Z2R5	Res, Metal 1/4W 2% 47K	01121	RL07AD473G
Z2C4	Cap, Flm. .047uF/100V 10%	23783	106-20-045	Z2R6	Res, Metal 1/4W 2% 47K	01121	RL07AD473G
Z2C5	Cap, Flm. .047uF/100V 10%	23783	106-20-045	Z2R7	Res, Car, 1/4W 5% 820K	01121	RL07AD821J
Z1CR1	Diode, Silicon	04713	IN4148	Z2R8	Res, Car, 1/4W 5% 1K	01121	RC07GF102J
Z1CR2	Diode, Silicon	04713	IN4148	Z2R9	Res, Car, 1/4W 5% 6.2K	01121	RC07GF622J
Z1CR3	Diode, Zener 6.8V 20%	04713	IN4735	Z2R10	Res, Car, 1/4W 5% 22K	01121	RC07GF223J
Z2CR1	Diode	04713	IN4148	Z2R11	Res, Car, 1/4W 5% 39K	01121	RC07GF393J
Z2CR2	Diode	04713	IN4148	Z2R12	Res, Pot. 10K	04880	PT10H-2.5-10K
Z1R1	Res, Pot. 50K	04880	PT10H-2.5-50K	Z2R13	Res, Pot. 10K	04880	PT10H-2.5-10K
Z1R2	Res, Metal 1/4W 2% 47K	01121	RL07AD473G	Z2R14	Res, Pot. 10K	04880	PT10H-2.5-10K
Z1R3	Res, Metal 1/4W 2% 47K	01121	RL07AD473G	Z2R15	Res, Pot. 10K	04880	PT10H-2.5-10K
Z1R4	Res, Metal 1/4W 2% 47K	01121	RL07AD473G	Z2R16	Res, Car, 1/4W 5% 470K	01121	RC07GF474J
Z1R5	Res, Metal 1/4W 2% 47K	01121	RL07AD473G	Z2R17	Res, Car, 1/4W 5% 470K	01121	RC07GF474J
Z1R6	Res, Metal 1/4W 2% 47K	01121	RL07AD473G	Z2R18	Res, Car, 1/4W 5% 470K	01121	RC07GF474J
Z1R7	Res, Car, 1/4W 5% 820K	01121	RC07GF824J	Z2R19	Res, Car, 1/4W 5% 470K	01121	RC07GF474J
Z1R8	Res, Car, 1/4W 5% 1K	01121	RC07GF102J	Z2R20	Res, Car, 1W 5% 2K	01121	RC32GF202J
Z1R9	Res, Car, 1/4W 5% 6.2K	01121	RC07GF622J	Z2R21	Res, Car, 1W 5% 2K	01121	RC32GF202J
Z1R10	Res, Car, 1/4W 5% 22K	01121	RC07GF223J	Z2R22	Res, Car, 1W 5% 2K	01121	RC32GF202J
Z1R11	Res, Car, 1/4W 5% 39K	01121	RC07GF393J	Z2R23	Res, Car, 1W 5% 2K	01121	RC32GF202J
Z1R12	Res, Pot. 10K	04880	PT10H-2.5-10K	Z1U1	I.C. OP Amp	27041	uA747C
Z1R13	Res, Pot. 10K	04880	PT10H-2.5-10K	Z1R2	I.C. Quad Comparator	27041	LM339
Z1R14	Res, Pot. 10K	04880	PT10H-2.5-10K	Z1R3	I.C. Quad Comparator	27041	LM339
Z1R15	Res, Pot. 10K	04880	PT10H-2.5-10K	Z2U1	I.C. OP Amp	27041	uA747C
Z1R16	Res, Car, 1/4W 5% 470K	01121	RC07GF474J	Z2U2	I.C. Quad Comparator	27041	LM339
Z1R17	Res, Car, 1/4W 5% 470K	01121	RC07GF474J	Z2U3	I.C. Quad Comparator	27041	LM339
Z1R18	Res, Car, 1/4W 5% 470K	01121	RC07GF474J		P.C. Board LED Meter	27926	7962-501

MONITOR AMPLIFIER, ASSY
PL7425-504

OUTPUT PAD ASSY
PL7294-501

REF. SYM.	DESCRIPTION	MFR'S CODE	MFR'S PART NO.	REF. SYM.	DESCRIPTION	MFR'S CODE	MFR'S PART NO.
T1,2 3,4	Trans,	27926	A6736-1	R1	Res, CC 1/2W 5% 910Ω	01121	RC20GF911J
C1,2	Cap, Elec. 6500uF/75VDC	27926	B7788-2	R2	Res, CC 1/2W 5% 4.3K	01121	RC20GF432J
Q1,2 3,4	Trans, Power	18714	2N3055	R3	Res, CC 1/2W 5% 8.2K	01121	RC20GF822J
	P.C. Assy, Output Pad	27926	7294-501	R4	Res, CC 1/2W 5% 1.5K	01121	RC20GF152J
	P.C. Assy, Monitor Amp	27926	7163-501	R5	Res, CC 1/2W 5% 180Ω	01121	RC20GF181J
	Socket, Trans.	27926	#9866-15-1	R6	Res, CC 1/2W 5% 180Ω	01121	RC20GF181J
				R7	Res, CC 1/2W 5% 820Ω	01121	RC20GF821J
				R8	Res, CC 1/2W 5% 820Ω	01121	RC20GF821J
				R9	Res, CC 1/2W 5% 910Ω	01121	RC20GF911J
					P.C. Bd, Output Pad	27926	7295-501

COMPONENT DESIGNATIONS & QUANTITIES SHOWN ABOVE ARE FOR DUAL STEREO MONITOR AMPLIFIER. COMPONENT TYPES ARE TYPICAL FOR ALL MODELS, SEE APPROPRIATE WIRING DIAGRAM FOR SPECIFIC QUANTITIES USED.

POWER SUPPLY ASSY
PL7137-501

REGULATOR BOARD ASSY
PL6764-502

REF. SYM.	DESCRIPTION	MFG'S CODE	MFG'S PART NO.	REF. SYM.	DESCRIPTION	MFG'S CODE	MFG'S PART NO.
CR1	Rectifier, Bridge 10A 100V	94232	EDI #PA-10	C2	Cap, Elec. 100uF/50VDC	27926	B9265-21
C1	Cap, Elec. 7400uF/75VDC	27926	B7788-2	C3	Cap, Elec. 2uF/25VDC	74840	E1na "R"
Q4	Trans, Power	18714	2N3055	C4	Cap, Disc. .001uF/1000VDC	56289	5GA-D10
F1	Fuse 2A Slo Blo	75915	AGC 2A	C5	Cap, Elec. 100uF/50VDC	27926	B9265-21
F2	Fuse 5A 3AG	75915	3AG 5A	C6	Cap, Flm. .1uF/8VDC 20%	56289	192P1049R8
T1	Transformer, Power	27926	A7154-1	CR1	Diode, Zener 10V	01295	IN4740
	P.C. Board, Regulator Assy	27926	B6764-502	CR2	Diode, Silicon	09019	A14F
				Q1	Transistor, Silicon	18714	2N2102
				Q2	Transistor, SCR 50V	09019	C106F2
				Q3	Transistor, Silicon	18714	2N2102
				Q4	Transistor	18714	2N4314
				R1	Resistor, Car, 1/2W 5% 1K	01121	RC20GF102J
				R2	Resistor, Car, 1/2W 5% 10K	01121	RC20GF103J
				R3	Resistor, Car, 2W 5% .33	01121	1RC Type BWH
				R4	Resistor, Car, 1/2W 5% 1K	01121	RC20GF102J
				R5	Resistor, Car, 1/2W 5% 100	01121	RC20GF101J
				R6	Resistor, Car, 1/2W 5% 1K	01121	RC20GF102J
				R7	Resistor, Car, 1/2W 5% 1.5K	01121	RC20GF152J
				R8	Resistor, Pot. Trim. 1K	75042	U201R102B
				R9	Resistor, Car, 1/2W 5% 1K	01121	RC20GF102J
				R10	Resistor, Car, 1/2W 5% 10K	01121	RC20GF103J
					P.C. Board, Regulator	27926	D6839-501

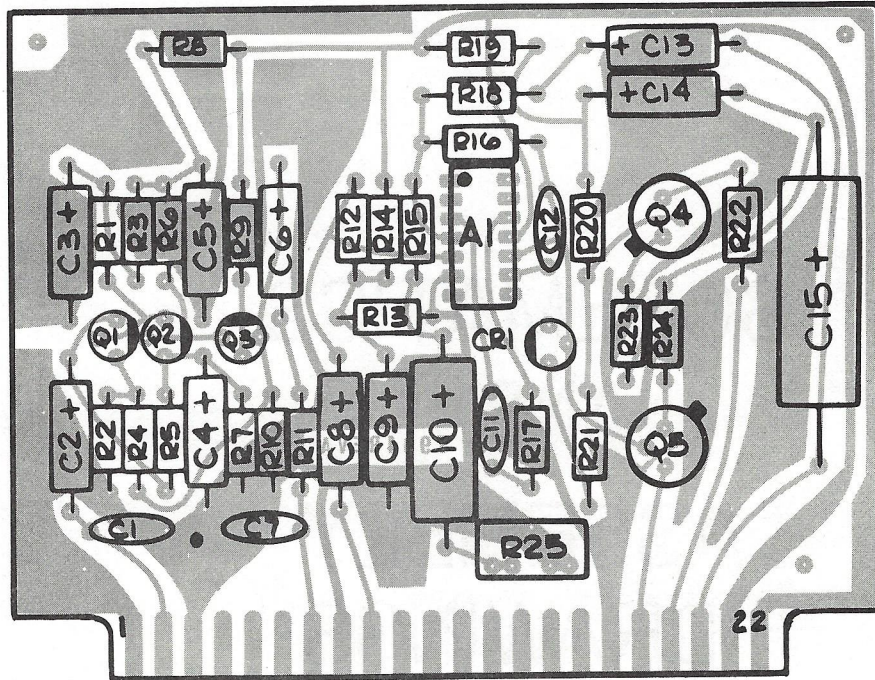
MONITOR AMP CIRCUIT ASSY
PL7163

REF. SYM.	DESCRIPTION	MFR'S CODE	MFR'S PART NO.	REF. SYM.	DESCRIPTION	MFR'S CODE	MFR'S PART NO.
Z1Q1	Transistor	09019	2N5172	Z1R1	Res, CC, 1/4W 5% 270Ω	01121	RC07GF271J
Z1Q2	Transistor	09019	2N5232A	Z1R2	Res, CC, 1/4W 5% 10K	01121	RC07GF103J
Z2Q1	Transistor	09019	2N5172	Z1R3	Res, CC, 1/4W 5% 47K	01121	RC07GF473J
Z2Q2	Transistor	09019	2N5232A	Z2R1	Res, CC, 1/4W 5% 270Ω	01121	RC07GF271J
Z3Q1	Transistor	09019	2N5172	Z2R2	Res, CC, 1/4W 5% 10K	01121	RC07GF103J
Z3Q2	Transistor	09019	2N5232A	Z2R3	Res, CC, 1/4W 5% 47K	01121	RC07GF473J
Z4Q1	Transistor	09019	2N5172	Z3R1	Res, CC, 1/4W 5% 270Ω	01121	RC07GF271J
Z4Q2	Transistor	09019	2N5232A	Z3R2	Res, CC, 1/4W 5% 10K	01121	RC07GF103J
Z6Q1	Transistor	09019	2N5366	Z3R3	Res, CC, 1/4W 5% 47K	01121	RC07GF473J
Z6Q2	Transistor	09019	2N5366	Z4R1	Res, CC, 1/4W 5% 270Ω	01121	RC07GF271J
Z6Q3	Transistor	18714	2N2102	Z4R2	Res, CC, 1/4W 5% 10K	01121	RC07GF103J
Z6Q4	Transistor	09019	2N5172	Z4R3	Res, CC, 1/4W 5% 47K	01121	RC07GF473J
Z6Q5	Transistor	18714	2N2102	Z5R4	Res, CC, 1/4W 5% 300Ω	01121	RC07GF301J
Z6Q6	Transistor	09019	2N5366	Z5R5	Res, CC, 1/4W 5% 300Ω	01121	RC07GF301J
Z6Q7	Transistor	18714	2N4314	Z6R1	Res, Metal Film 1/4W 2% 68K	01121	RL07AD683G
Z1CR1	Transistor	09019	2N5172	Z6R2	Res, Metal Film 1/4W 2% 100K	01121	RL07AD104G
Z1CR2	Transistor	09019	2N5172	Z6R3	Res, CC, 1/4W 5% 4.7K	01121	RC07GF472J
Z1CR3	Transistor	09019	2N5232A	Z6R4	Res, CC 1/4W 5% 820Ω	01121	RC07GF821J
Z2CR1	Transistor	09019	2N5172	Z6R5	Res, CC 1/4W 5% 1K	01121	RC07GF102J
Z2CR2	Transistor	09019	2N5172	Z6R6	Res, CC 1/4W 5% 10K	01121	RC07GF103J
Z2CR3	Transistor	09019	2N5232A	Z6R7	Res, CC 1/4W 5% 680Ω	01121	RC07GF681J
Z3CR1	Transistor	09019	2N5172	Z6R8			
Z3CR2	Transistor	09019	2N5172	Z6R9	Res, CC 1/4W 5% 180Ω	01121	RC07GF181J
Z3CR3	Transistor	09019	2N5232A	Z6R10	Res, CC 1/4W 5% 2.7K	01121	RC07GF272J
Z4CR1	Transistor	09019	2N5172	Z6R11	Res, CC 1/4W 5% 2.2K	01121	RC07GF222J
Z4CR2	Transistor	09019	2N5172	Z6R12	Res, CC 1/4W 5% 1.8K	01121	RC07GF182J
Z4CR3	Transistor	09019	2N5232A	Z6R13	Res, CC 1/2W 5% 1K	01121	RC20GF102J
Z6CR1	Transistor	09019	2N5172	Z6R14	Res, CC 1/4W 5% 4.7K	01121	RC07GF472J
Z6CR2	Transistor	09019	2N5172	Z6R15	Res, CC 1/2W 5% 1K	01121	RC20GF102J
Z6CR3	Transistor	09019	2N5172	Z6R16	Res, CC 1/4W 5% 33Ω	01121	RC07GF330J
Z6CR4	Transistor	09019	2N5172	Z6R17	Res, CC 1/4W 5% 100Ω	01121	RC07GF101J
Z6CR5	Transistor	09019	2N5172	Z6R18	Res, CC 1/4W 5% 33Ω	01121	RC07GF330J
Z6CR6	Transistor	09019	2N5172	Z6R19	Res, CC 1/4W 5% 100Ω	01121	RC07GF101J
Z6CR7	Transistor	09019	2N5172	Z6R20	Res, CC 1/4W 5% 100Ω	01121	RC07GF101J
Z6CR8	Transistor	09019	2N5172	Z6R21	Res, Wire Wound 2W 5% .33Ω	75042	BWH
Z6CR9	Transistor	09019	2N5172	Z6R22	Res, Wire Wound 2W 5% .33Ω	75042	BWH
Z6CR10	Transistor	09019	2N5172	Z6R23	Res, CC 1W 5% 22Ω	01121	RC32GF220J
Z6C1	Cap, Elec. 10uF/35V/20%	27926	B9265-8	Z6R24			
Z6C2	Cap, Mylar .1uF/80V/20%	56289	192P1049R8	Z6R25			
Z6C3	Cap, Elec. 100uF/25V or 35V	27926	B9265-20	Z6R26			
Z6C4	Cap, Disc, 100pF/1KV	56289	5GA-T10	Z6R27	Res, CC 1W 5% 220Ω	01121	RC32GF221J
Z6C5	Cap, Elec. 10uF/35V/20%	27926	B9265-8	Z6R28	Res, CC 1/2W 5% 47Ω	01121	RC20GF470J
Z6C6	Cap, Elec. 100uF/80V	27926	B9265-29	Z6J1	Res, CC 1/4W 5% 1K	01121	RC07GF102J
Z6C7	Cap, Mylar .1uF/80V/20%	56289	192P1049R8		Socket, Relay	27926	A7588-1
Z6C8	Cap, Mylar .056/80V/20%	56289	192P5639R8		Socket, Transistor	71785	3-LPS-B
Z6C9	Cap, Mylar .056/80V/20%	56289	192P5639R8		Board, P.C., Monitor Amp	27926	7162
Z6C10	Cap, Mylar .1uF/80V 20%	56289	192P1049R8				

Station List

Station	Frequency	Power	Class	Location	Notes
WABC	770	50,000	Class B	New York, NY	
WABC-TV	7	10,000	Class B	New York, NY	
WABC-FM	97.3	10,000	Class B	New York, NY	
WABC-TV2	13	10,000	Class B	New York, NY	
WABC-TV3	21	10,000	Class B	New York, NY	
WABC-TV4	27	10,000	Class B	New York, NY	
WABC-TV5	35	10,000	Class B	New York, NY	
WABC-TV6	43	10,000	Class B	New York, NY	
WABC-TV7	51	10,000	Class B	New York, NY	
WABC-TV8	59	10,000	Class B	New York, NY	
WABC-TV9	67	10,000	Class B	New York, NY	
WABC-TV10	75	10,000	Class B	New York, NY	
WABC-TV11	83	10,000	Class B	New York, NY	
WABC-TV12	91	10,000	Class B	New York, NY	
WABC-TV13	99	10,000	Class B	New York, NY	
WABC-TV14	107	10,000	Class B	New York, NY	
WABC-TV15	115	10,000	Class B	New York, NY	
WABC-TV16	123	10,000	Class B	New York, NY	
WABC-TV17	131	10,000	Class B	New York, NY	
WABC-TV18	139	10,000	Class B	New York, NY	
WABC-TV19	147	10,000	Class B	New York, NY	
WABC-TV20	155	10,000	Class B	New York, NY	
WABC-TV21	163	10,000	Class B	New York, NY	
WABC-TV22	171	10,000	Class B	New York, NY	
WABC-TV23	179	10,000	Class B	New York, NY	
WABC-TV24	187	10,000	Class B	New York, NY	
WABC-TV25	195	10,000	Class B	New York, NY	
WABC-TV26	203	10,000	Class B	New York, NY	
WABC-TV27	211	10,000	Class B	New York, NY	
WABC-TV28	219	10,000	Class B	New York, NY	
WABC-TV29	227	10,000	Class B	New York, NY	
WABC-TV30	235	10,000	Class B	New York, NY	
WABC-TV31	243	10,000	Class B	New York, NY	
WABC-TV32	251	10,000	Class B	New York, NY	
WABC-TV33	259	10,000	Class B	New York, NY	
WABC-TV34	267	10,000	Class B	New York, NY	
WABC-TV35	275	10,000	Class B	New York, NY	
WABC-TV36	283	10,000	Class B	New York, NY	
WABC-TV37	291	10,000	Class B	New York, NY	
WABC-TV38	299	10,000	Class B	New York, NY	
WABC-TV39	307	10,000	Class B	New York, NY	
WABC-TV40	315	10,000	Class B	New York, NY	
WABC-TV41	323	10,000	Class B	New York, NY	
WABC-TV42	331	10,000	Class B	New York, NY	
WABC-TV43	339	10,000	Class B	New York, NY	
WABC-TV44	347	10,000	Class B	New York, NY	
WABC-TV45	355	10,000	Class B	New York, NY	
WABC-TV46	363	10,000	Class B	New York, NY	
WABC-TV47	371	10,000	Class B	New York, NY	
WABC-TV48	379	10,000	Class B	New York, NY	
WABC-TV49	387	10,000	Class B	New York, NY	
WABC-TV50	395	10,000	Class B	New York, NY	
WABC-TV51	403	10,000	Class B	New York, NY	
WABC-TV52	411	10,000	Class B	New York, NY	
WABC-TV53	419	10,000	Class B	New York, NY	
WABC-TV54	427	10,000	Class B	New York, NY	
WABC-TV55	435	10,000	Class B	New York, NY	
WABC-TV56	443	10,000	Class B	New York, NY	
WABC-TV57	451	10,000	Class B	New York, NY	
WABC-TV58	459	10,000	Class B	New York, NY	
WABC-TV59	467	10,000	Class B	New York, NY	
WABC-TV60	475	10,000	Class B	New York, NY	
WABC-TV61	483	10,000	Class B	New York, NY	
WABC-TV62	491	10,000	Class B	New York, NY	
WABC-TV63	499	10,000	Class B	New York, NY	
WABC-TV64	507	10,000	Class B	New York, NY	
WABC-TV65	515	10,000	Class B	New York, NY	
WABC-TV66	523	10,000	Class B	New York, NY	
WABC-TV67	531	10,000	Class B	New York, NY	
WABC-TV68	539	10,000	Class B	New York, NY	
WABC-TV69	547	10,000	Class B	New York, NY	
WABC-TV70	555	10,000	Class B	New York, NY	
WABC-TV71	563	10,000	Class B	New York, NY	
WABC-TV72	571	10,000	Class B	New York, NY	
WABC-TV73	579	10,000	Class B	New York, NY	
WABC-TV74	587	10,000	Class B	New York, NY	
WABC-TV75	595	10,000	Class B	New York, NY	
WABC-TV76	603	10,000	Class B	New York, NY	
WABC-TV77	611	10,000	Class B	New York, NY	
WABC-TV78	619	10,000	Class B	New York, NY	
WABC-TV79	627	10,000	Class B	New York, NY	
WABC-TV80	635	10,000	Class B	New York, NY	
WABC-TV81	643	10,000	Class B	New York, NY	
WABC-TV82	651	10,000	Class B	New York, NY	
WABC-TV83	659	10,000	Class B	New York, NY	
WABC-TV84	667	10,000	Class B	New York, NY	
WABC-TV85	675	10,000	Class B	New York, NY	
WABC-TV86	683	10,000	Class B	New York, NY	
WABC-TV87	691	10,000	Class B	New York, NY	
WABC-TV88	699	10,000	Class B	New York, NY	
WABC-TV89	707	10,000	Class B	New York, NY	
WABC-TV90	715	10,000	Class B	New York, NY	
WABC-TV91	723	10,000	Class B	New York, NY	
WABC-TV92	731	10,000	Class B	New York, NY	
WABC-TV93	739	10,000	Class B	New York, NY	
WABC-TV94	747	10,000	Class B	New York, NY	
WABC-TV95	755	10,000	Class B	New York, NY	
WABC-TV96	763	10,000	Class B	New York, NY	
WABC-TV97	771	10,000	Class B	New York, NY	
WABC-TV98	779	10,000	Class B	New York, NY	
WABC-TV99	787	10,000	Class B	New York, NY	
WABC-TV100	795	10,000	Class B	New York, NY	

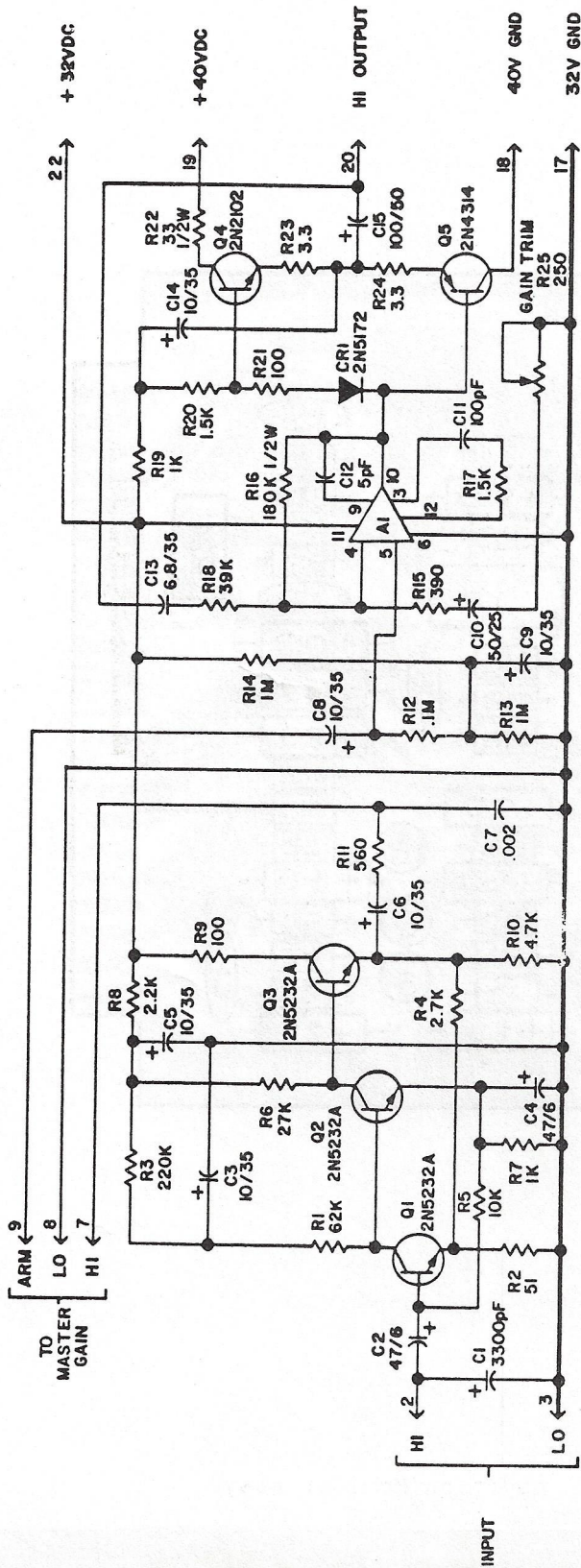
SCHEMATICS AND ASSEMBLY DRAWINGS



Program Amplifier Assy

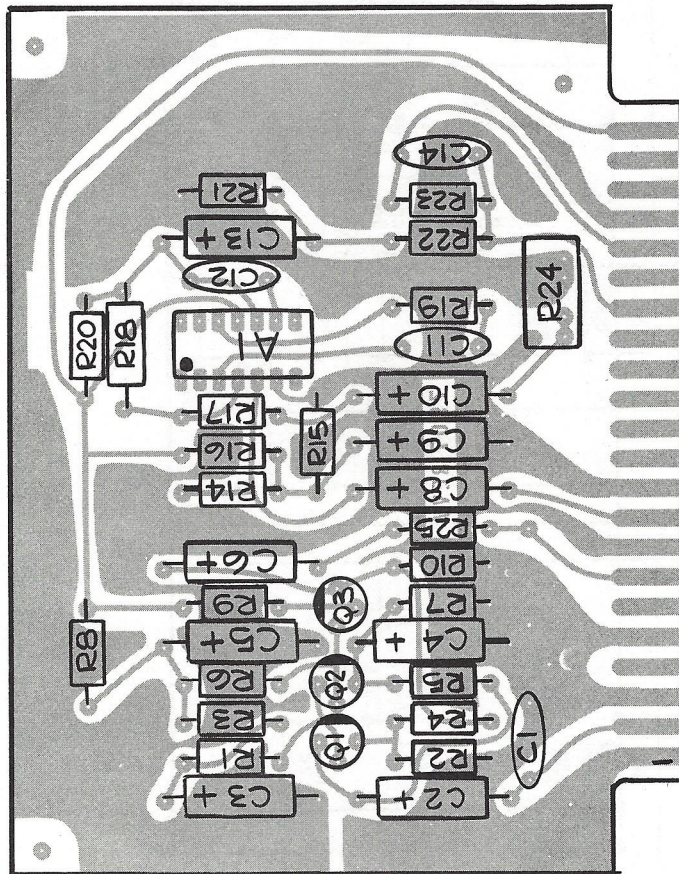
FIG. 14
PG. 48

REVISIONS		DATE	APPROVED
LTR	DESCRIPTION		
A	REVISED & REDRAWN	11-29-77	[Signature]



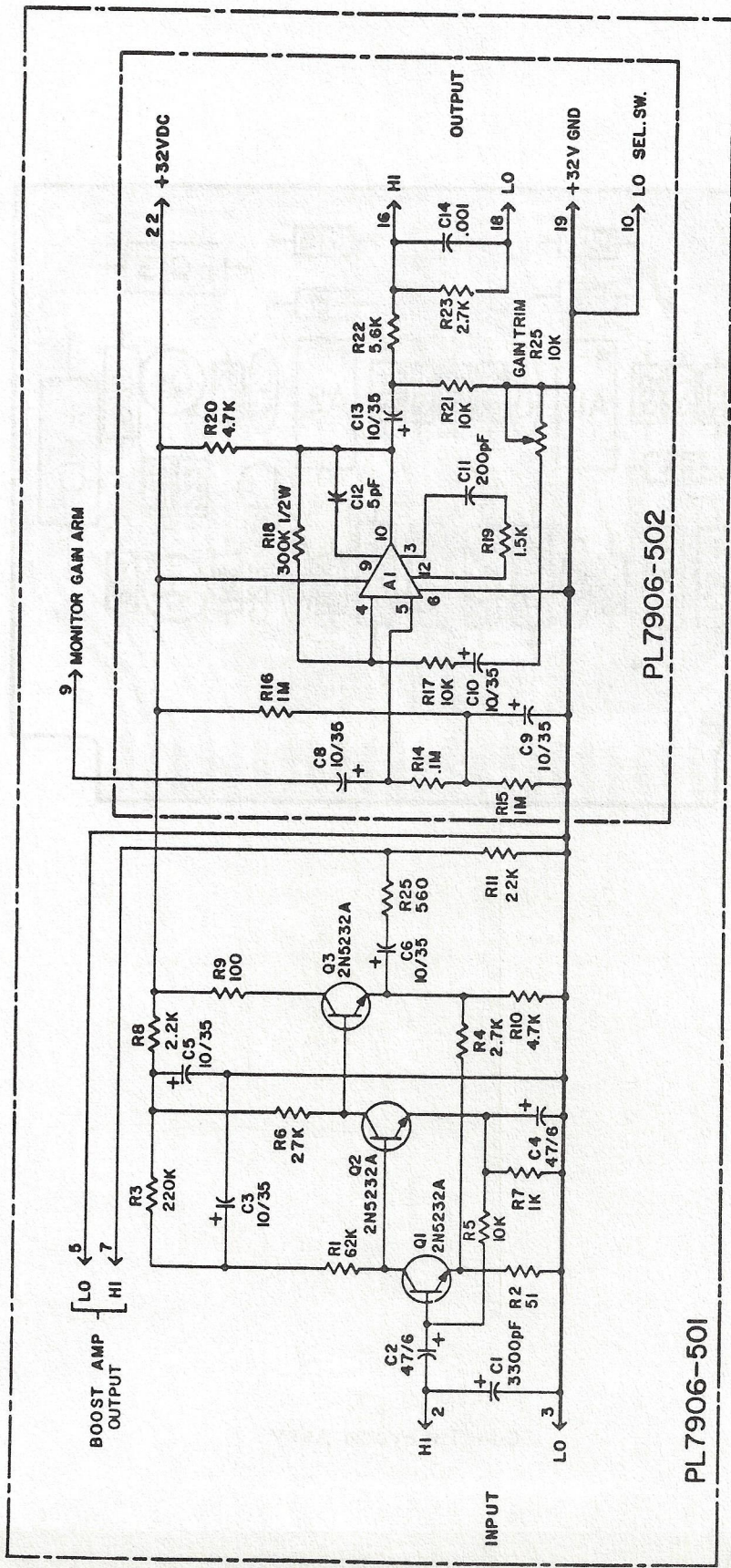
SCHEMATIC
PROGRAM CIRCUIT ASS'Y
C7956

FIG. 15
PG. 49



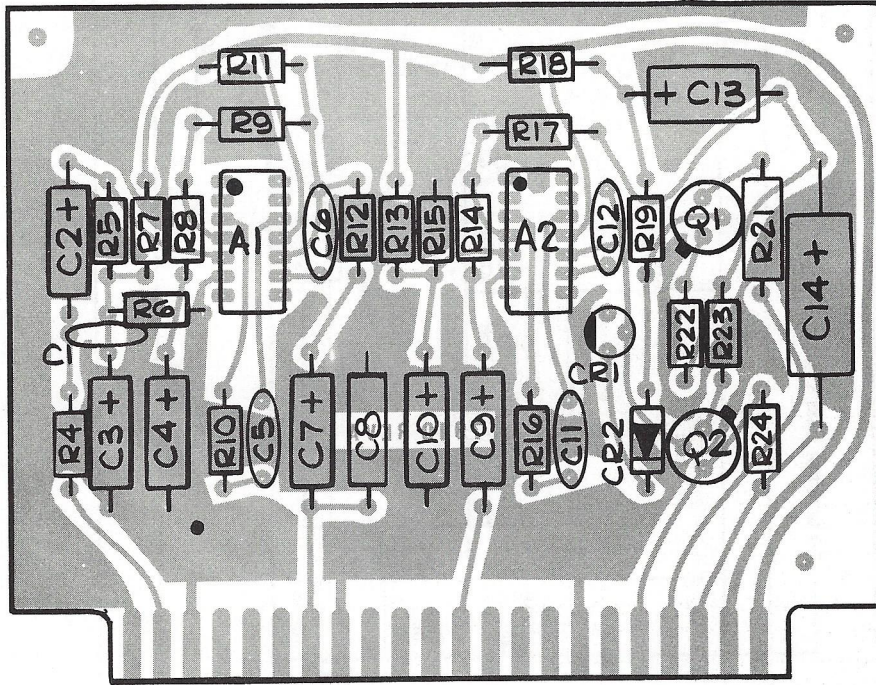
Audition/Monitor Assy

REVISIONS		DATE	APPROVED
LTR	A	11.13	
DESCRIPTIONS			
REVISED & REDRAWN			



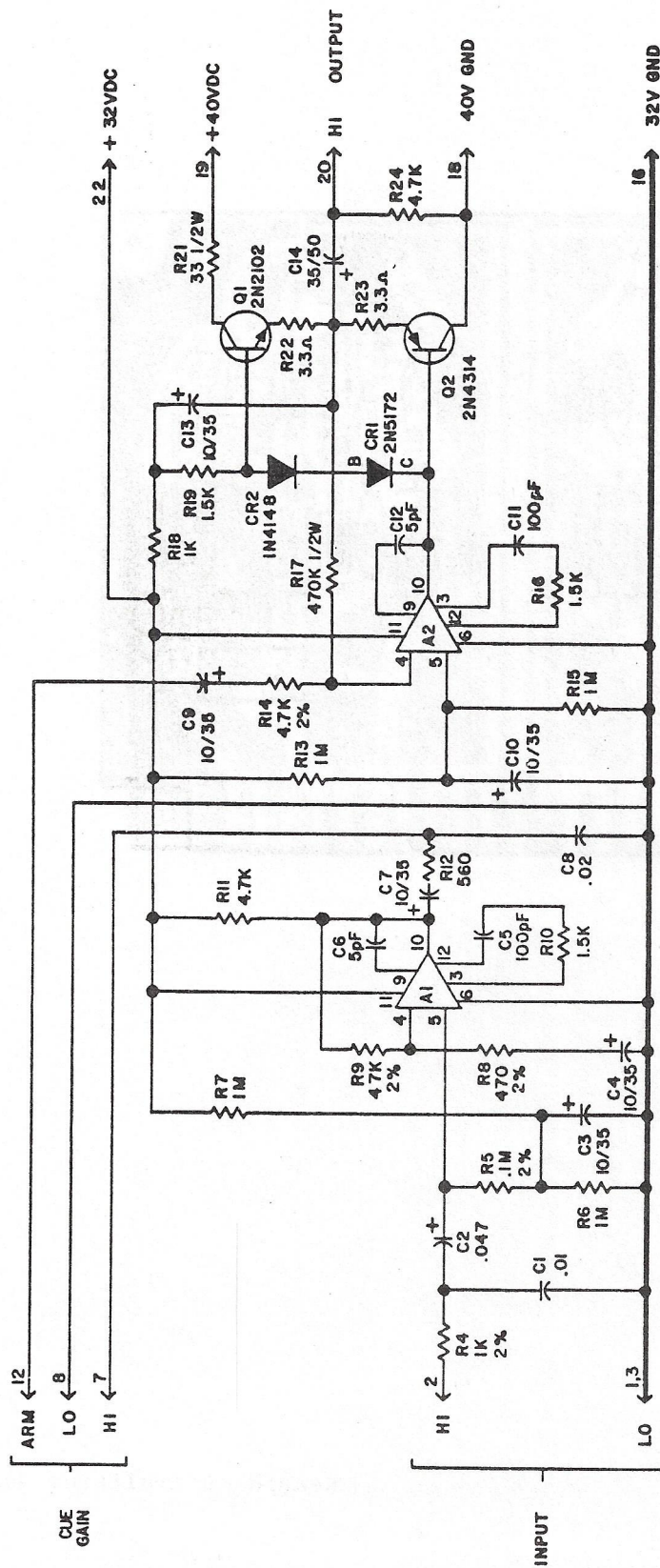
SCHEMATIC
AUDITION MONITOR AMPLIFIER
ASS'Y
C7957

FIG. 17
PG. 51



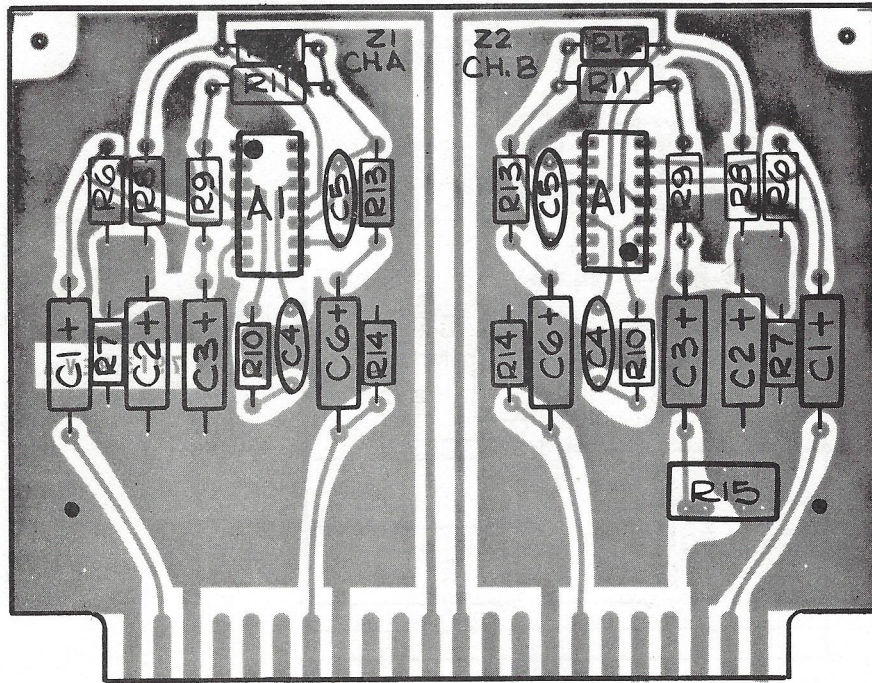
Cue/Intercom Assy

REVISIONS		DATE	APPROV.
LTR	DESCRIPTION	11.7.77	day
A	REVISED & REDRAWN		



SCHEMATIC
CUE & INTERCOM ASS'Y
C7958

FIG. 19
PG. 53



Headphone Amplifier Assy

FIG. 20
PG. 54

REVISIONS

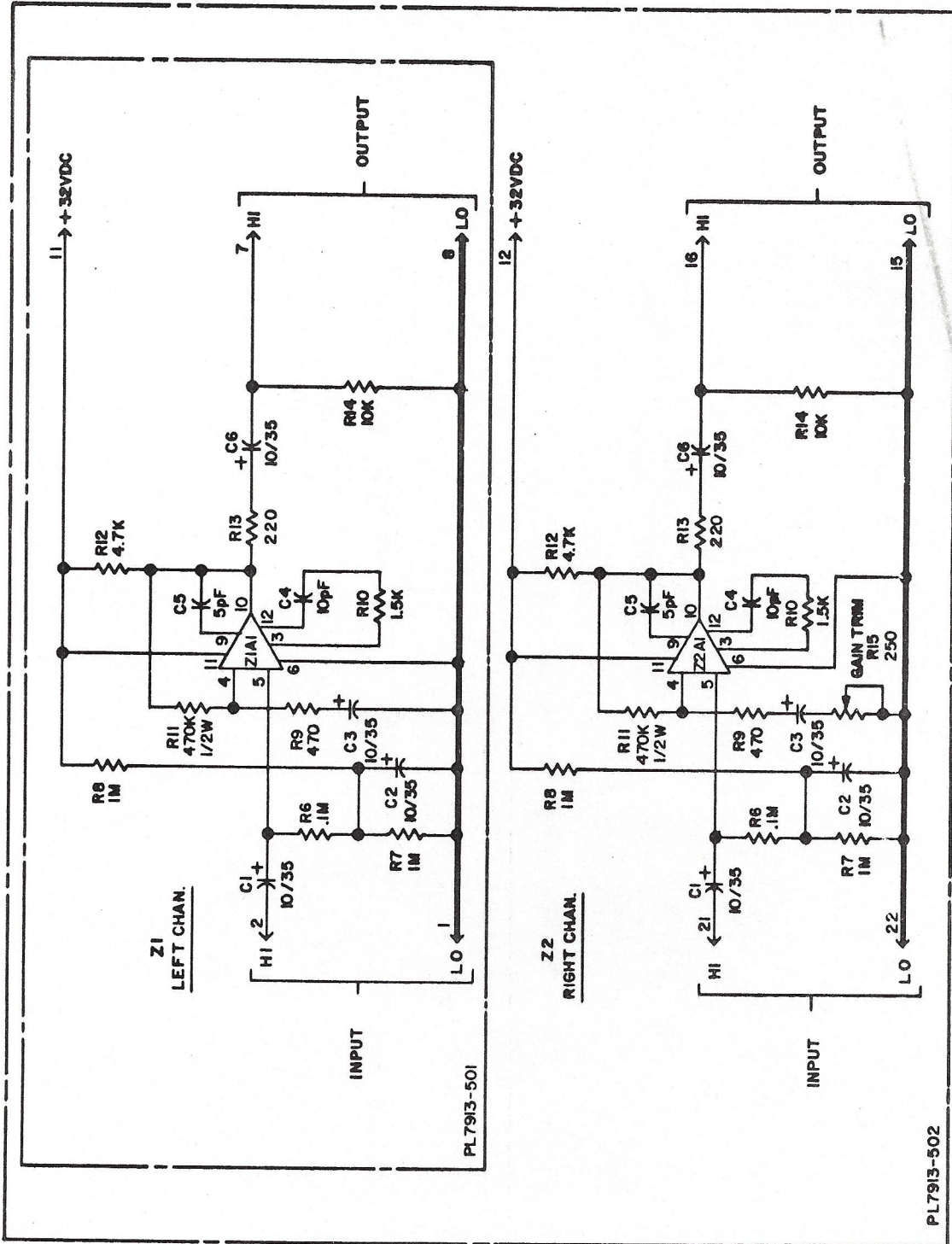
DESCRIPTION

DATE APPR'D

LTR

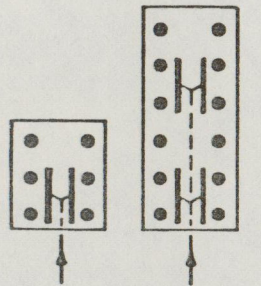
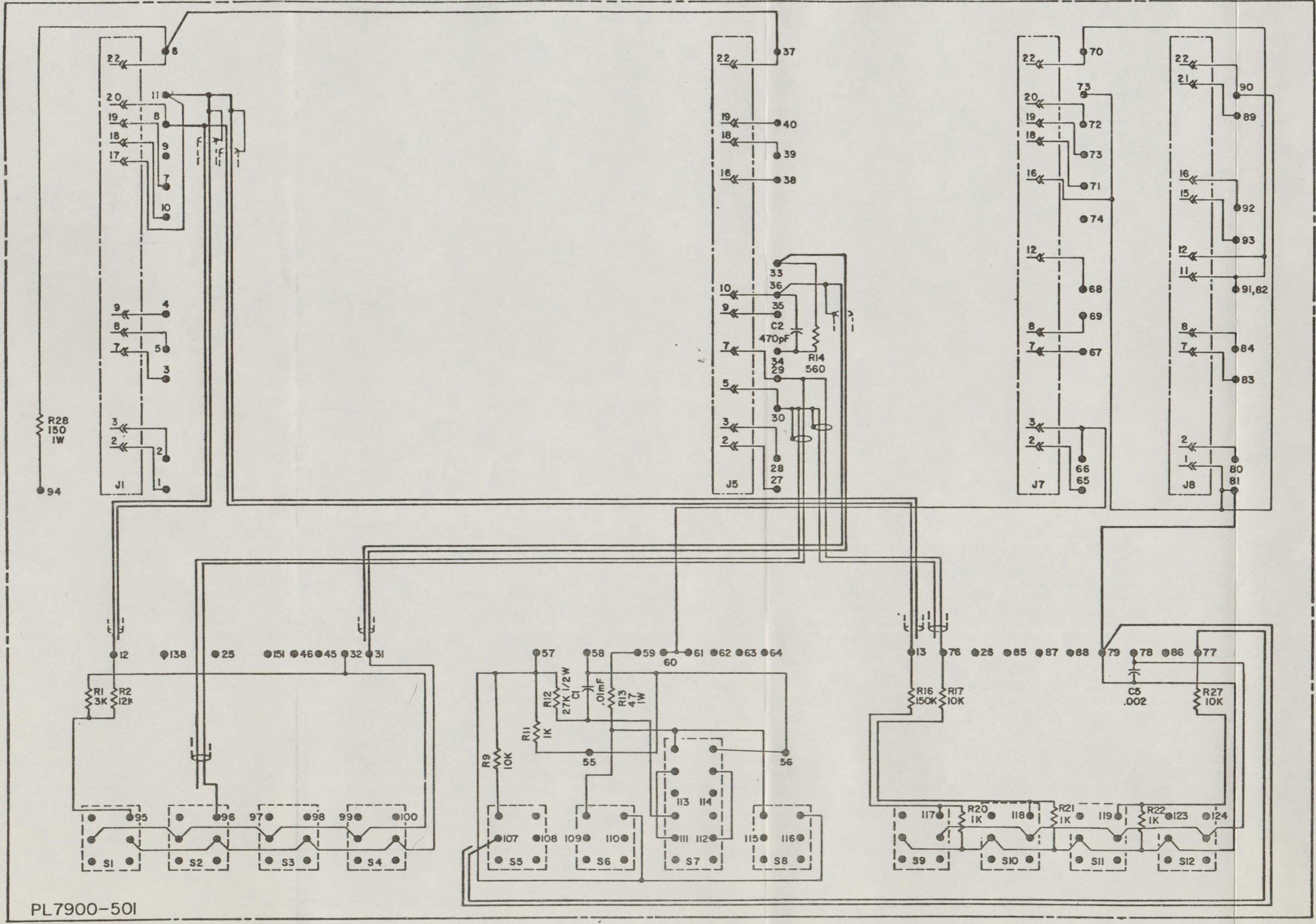
11-29-77

AW



SCHMATIC
PHONE AMPLIFIER ASSY
C7959

FIG. 21
PG. 55

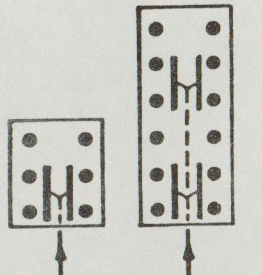
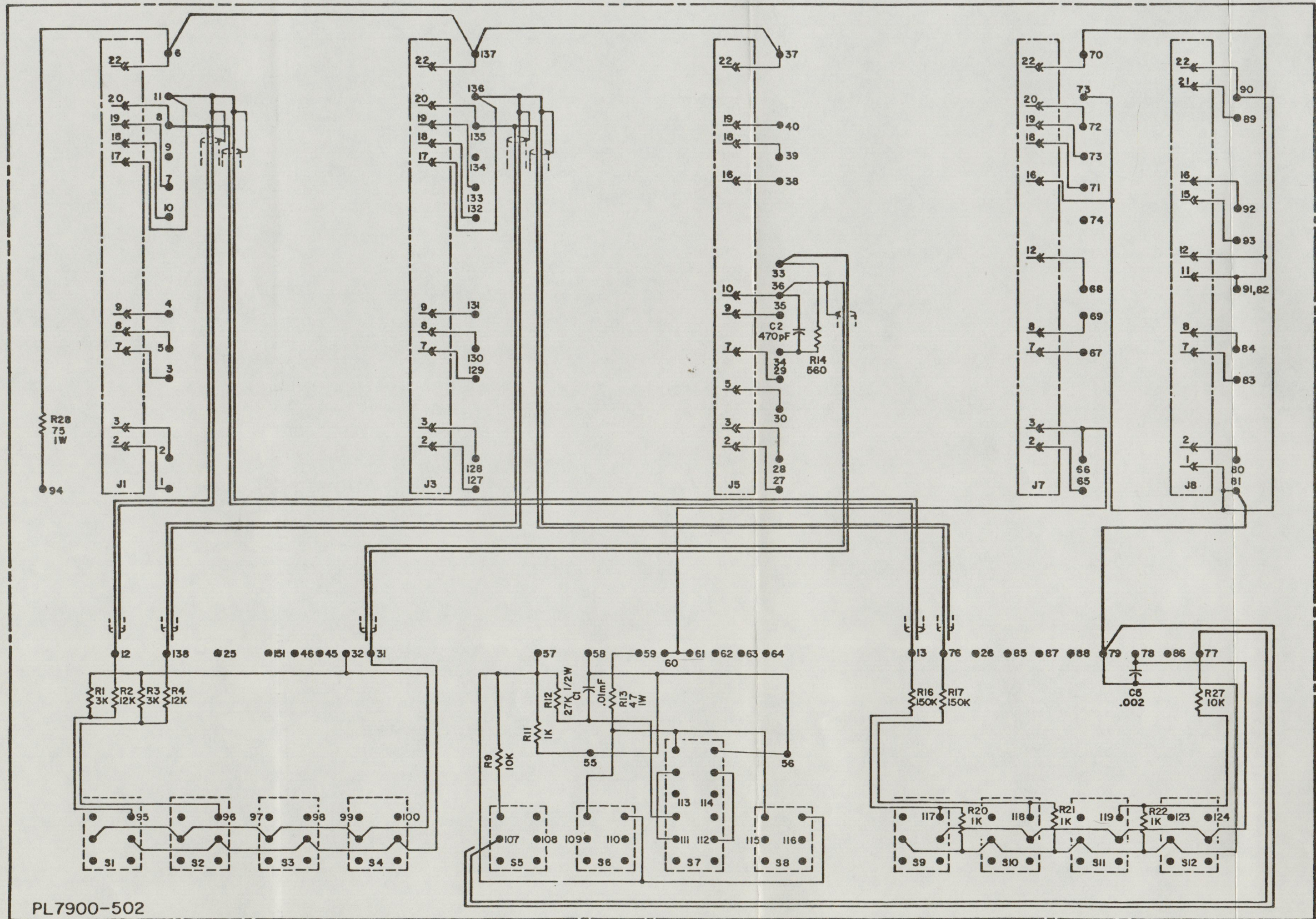


SWITCH FUNCTION (TYP)
S6 & S7 SHOWN

PL7900-501

SCHMATIC
OUTPUT CIRCUIT MOTHER BOARD
MONAURAL

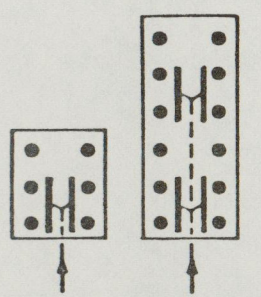
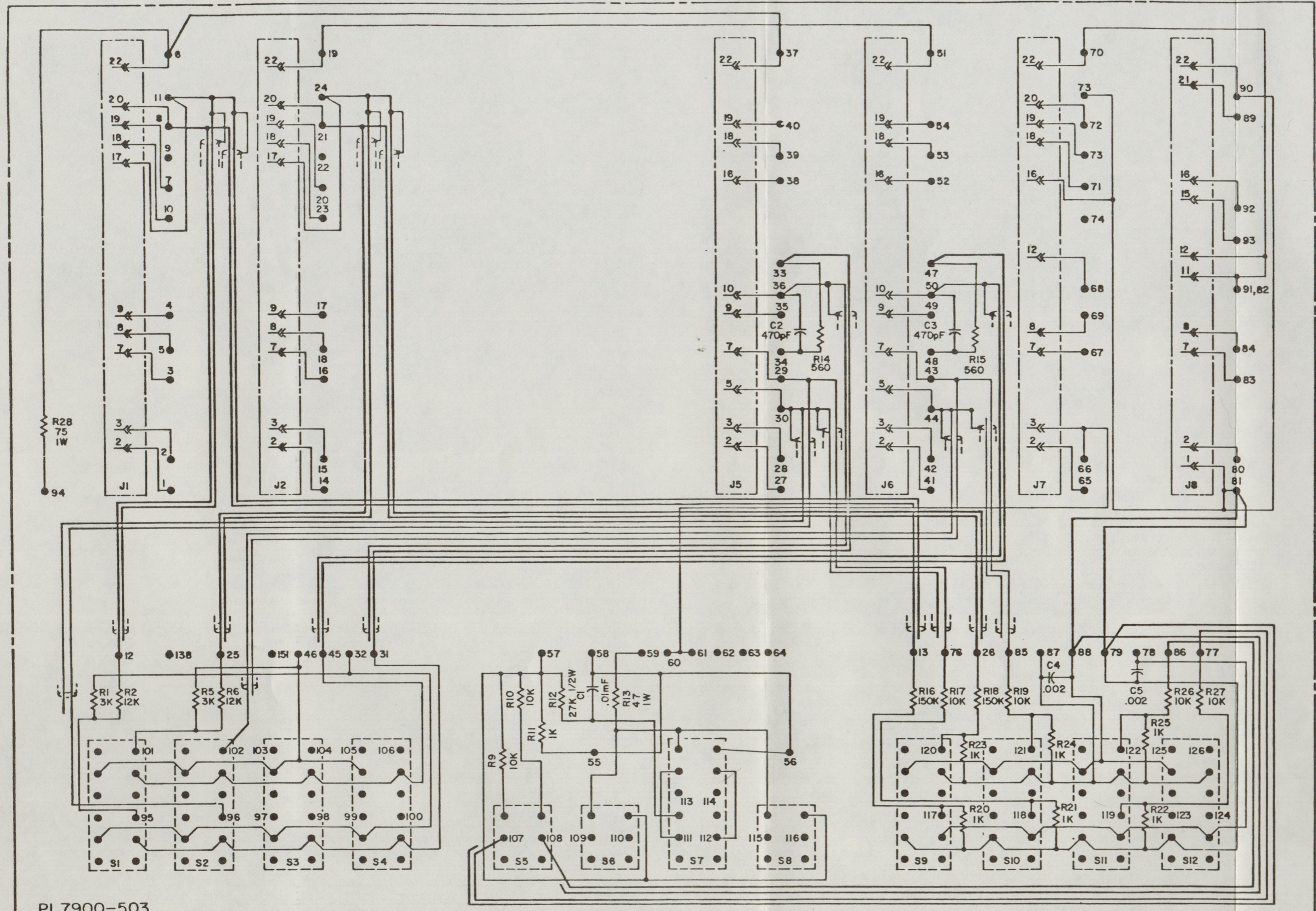
7920-501



SWITCH FUNCTION (TYP)
S6 & S7 SHOWN

SCHMATIC
OUTPUT CIRCUIT MOTHER BOARD
DUAL MONAURAL
7920-502

PL7900-502

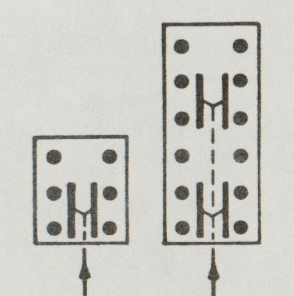
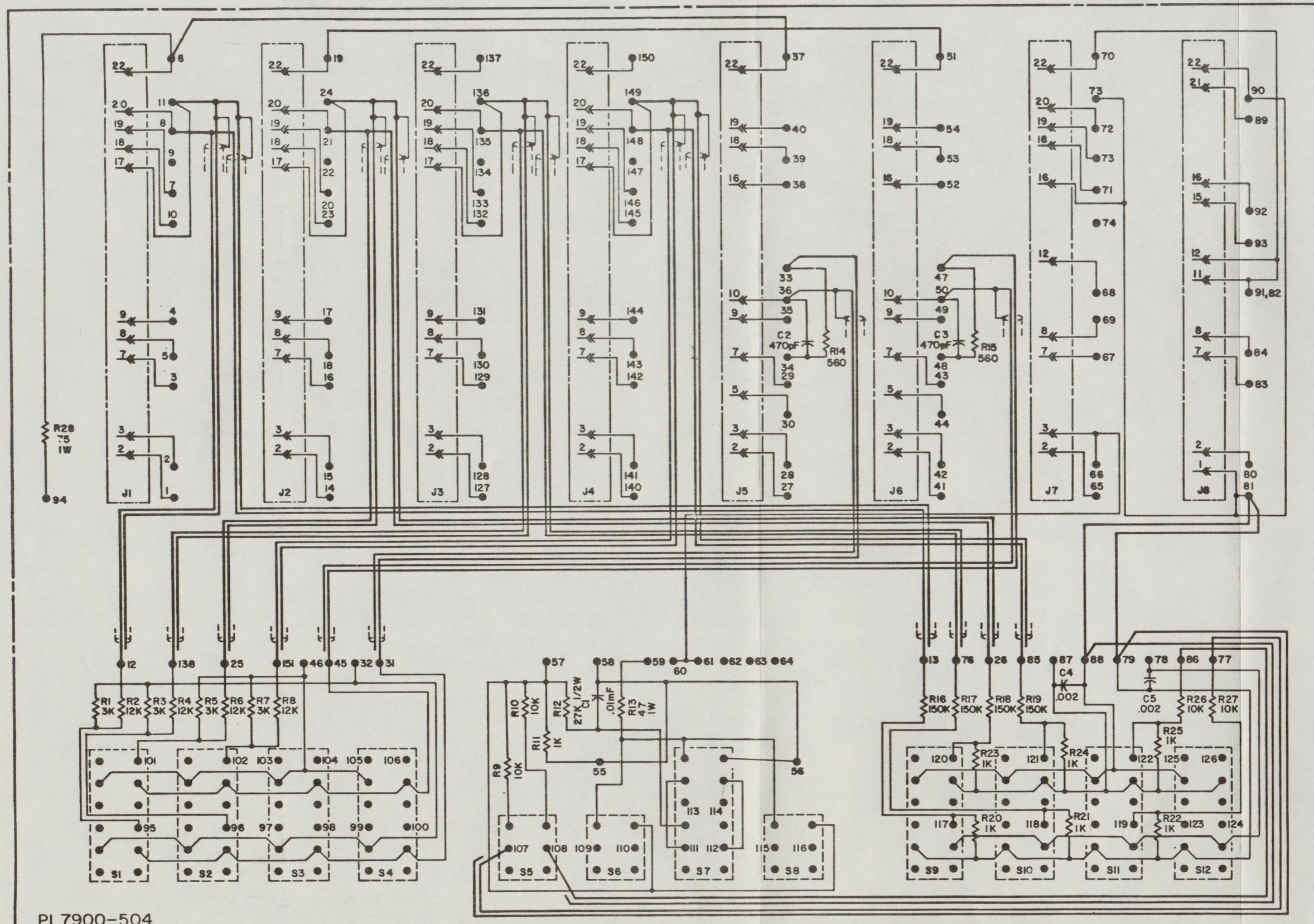


SWITCH FUNCTION (TYP)
S6 ■ S7 SHOWN

PL7900-503

SCHEMATIC
OUTPUT CIRCUIT MOTHER BOARD
STEREO

7920-503

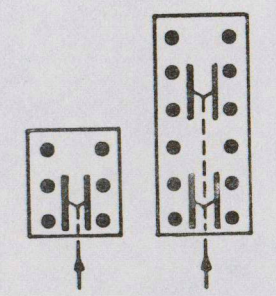
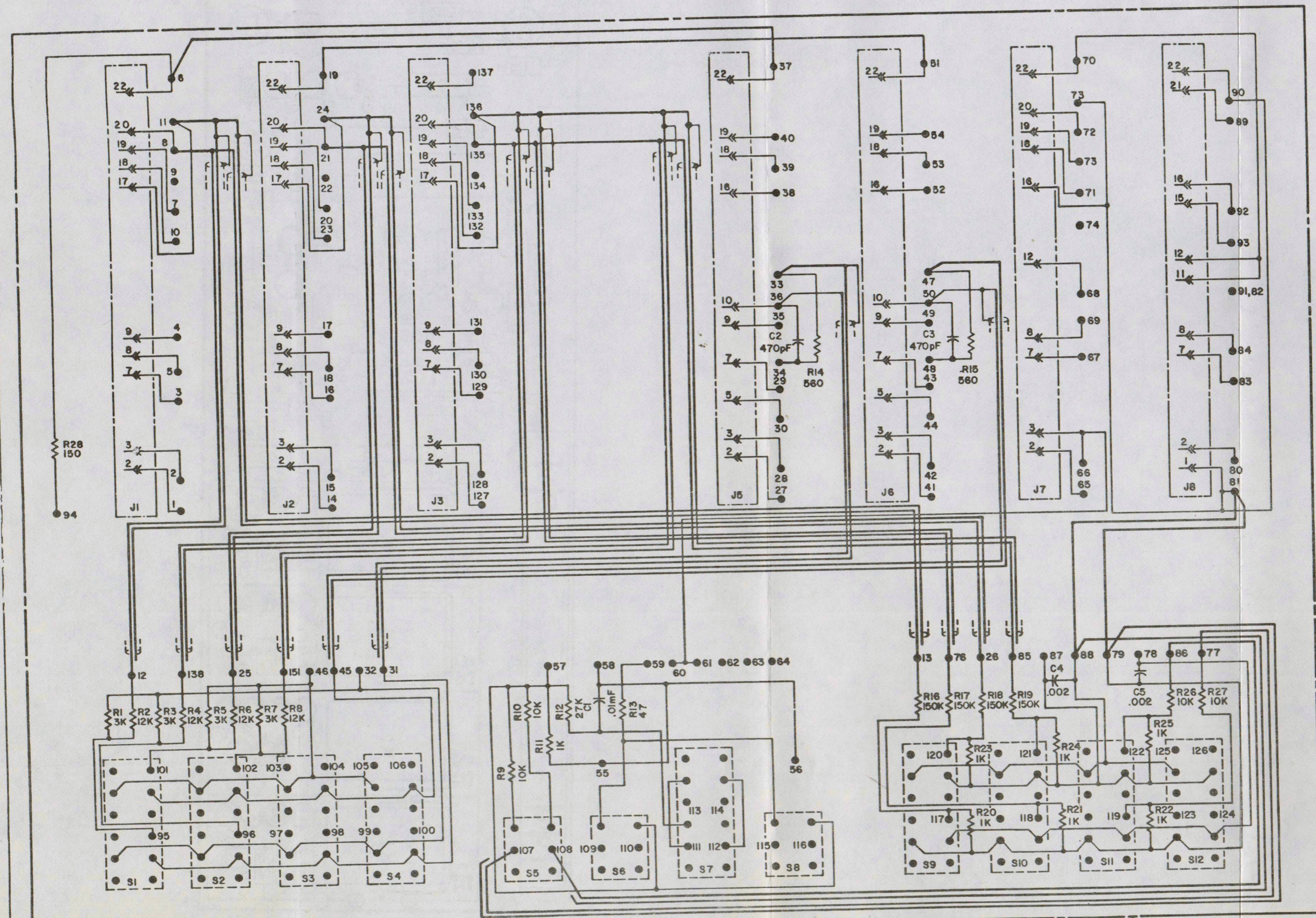


SWITCH FUNCTION (TYP)
36 & 37 SHOWN

PL7900-504

SCHEMATIC
OUTPUT CIRCUIT MOTHER BOARD
DUAL STEREO

7920-504



PL7900-505

SCHEMATIC
OUTPUT CIRCUIT MOTHER BOARD
SIMULCAST

7920-505

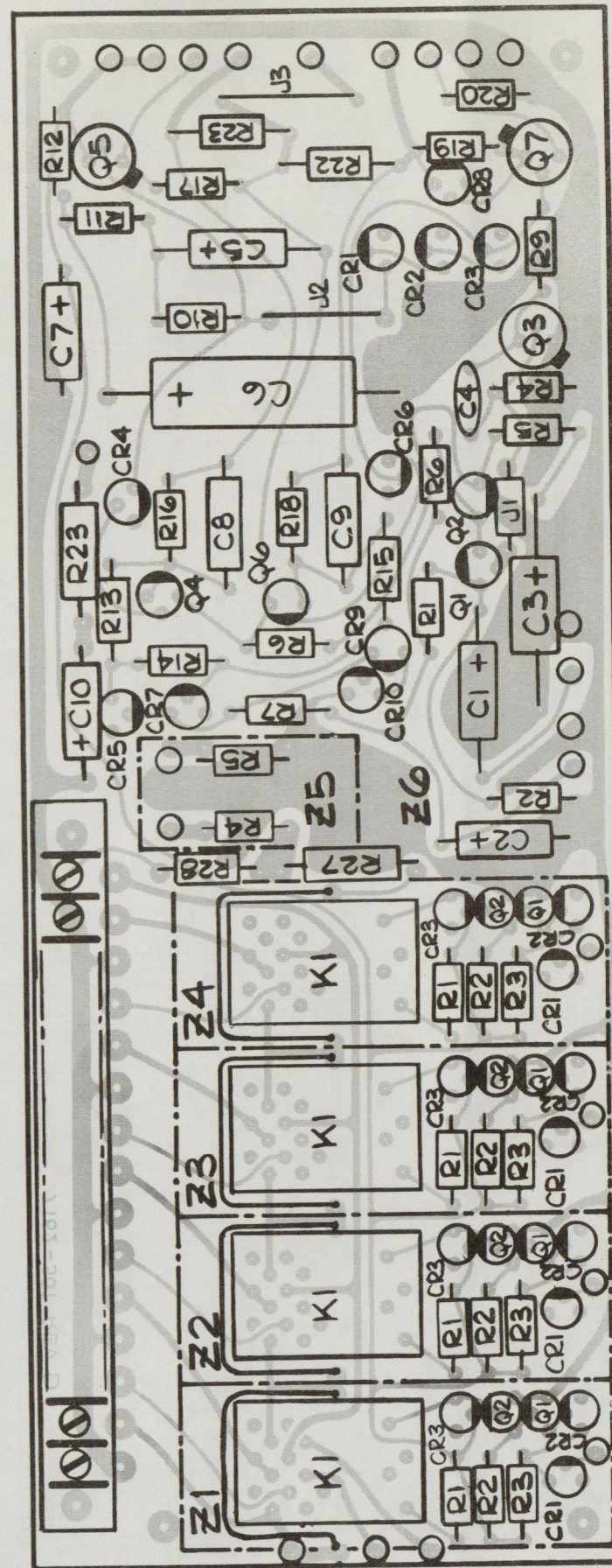
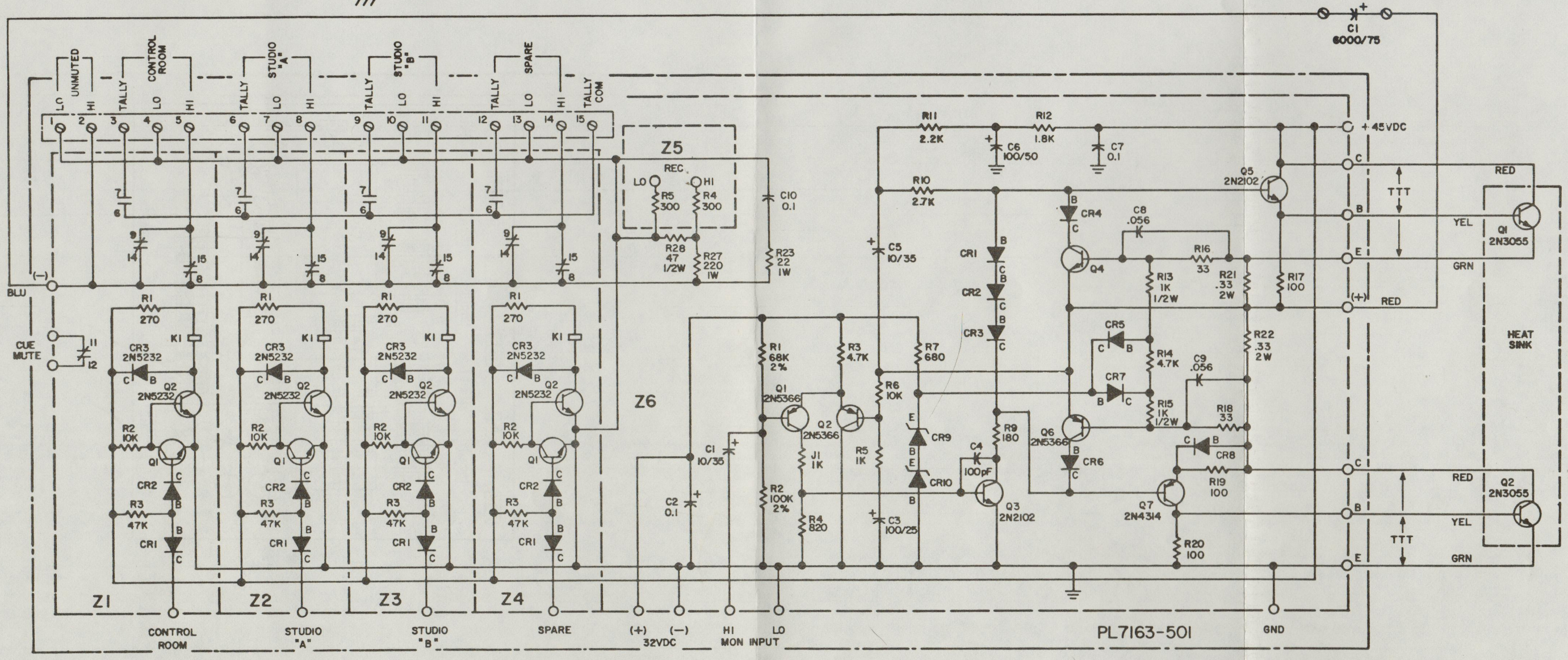
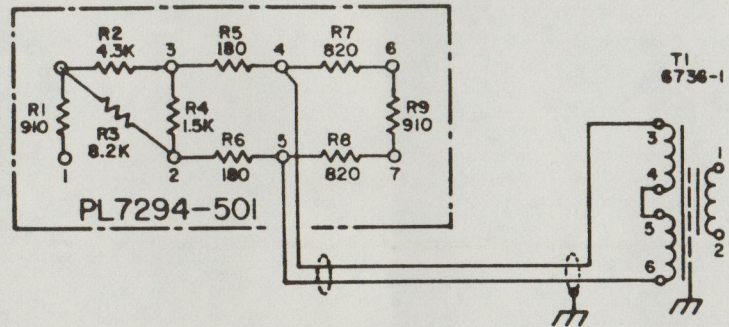


FIG. 27
PG. 66

Monitor Amplifier Assy

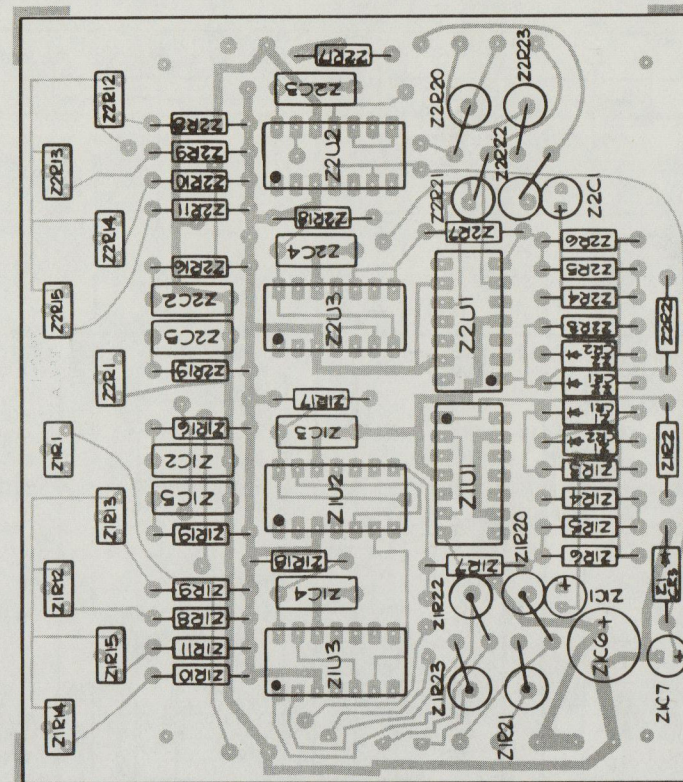
REVISIONS			
LTR	DESCRIPTION	DATE	APPR'D
F	REDRAWN WITH NO CHANGES		



PL7425-TAB

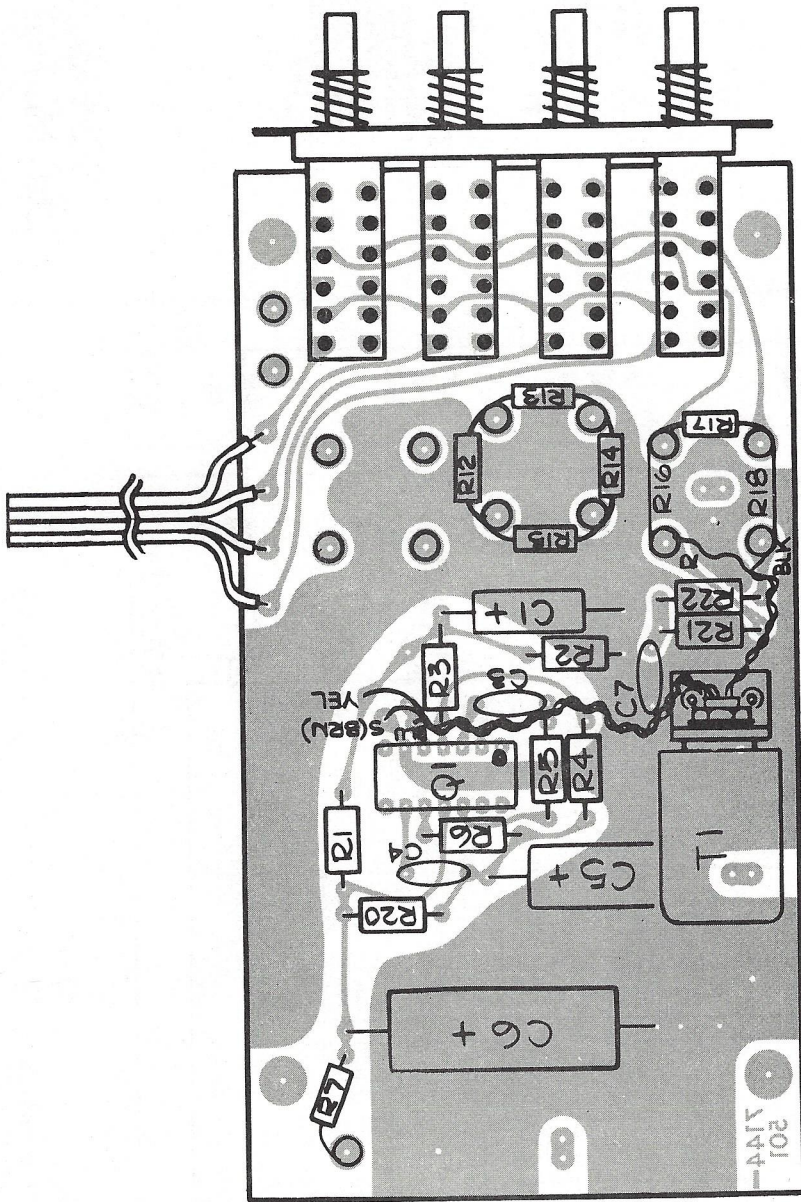
- NOTES:
- 1. UNLESS OTHERWISE SPECIFIED;
 - A. ALL UNMARKED RESISTANCES ARE 1/4W, 5%.
 - B. ALL UNMARKED CAPACITANCES ARE IN μ F.
 - C. ALL UNMARKED DIODES & TRANSISTORS ARE 2N5172.
 - 2. MONAURAL MONITOR AMPLIFIER IS SHOWN, REFER TO PL7425-TAB FOR COMPONENT REQUIREMENTS OF REMAINING VERSIONS.
 - A. ADDITIONAL OUTPUT PADS & TRANSFORMER TO BE CONSECUTIVELY NUMBERED.

SCHMATIC
MONITOR AMPLIFIER
D7187



LED Driver Assy

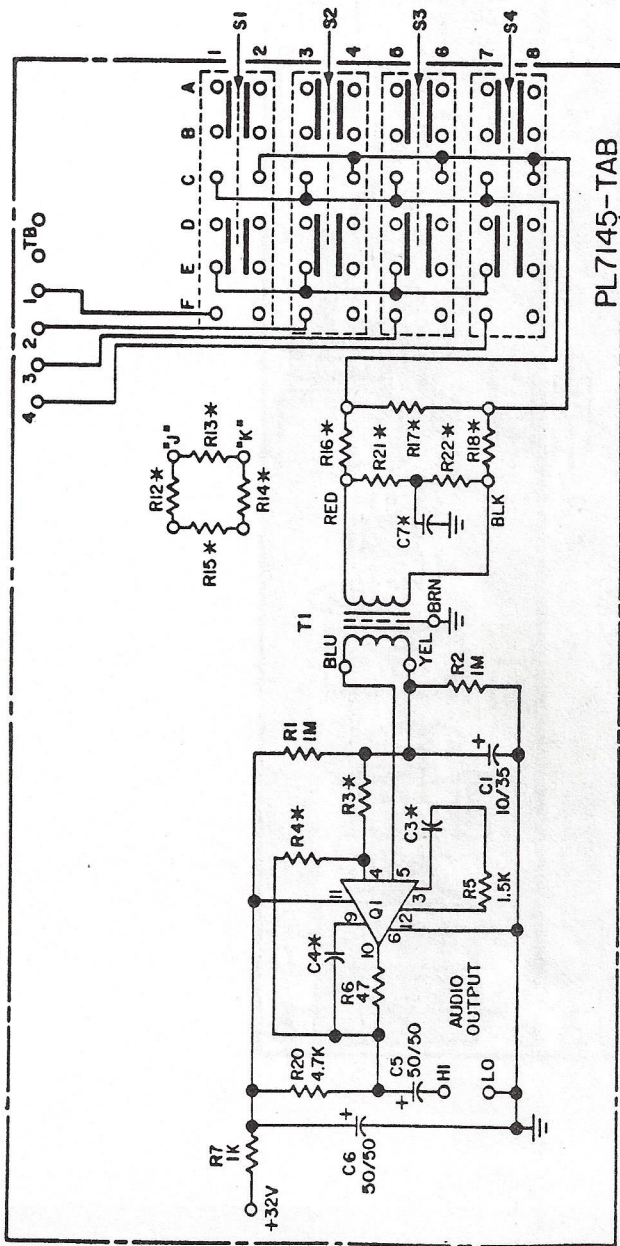
FIG. 29
PG. 68



Mono Input Preamp Assy

FIG. 31
PG. 70

REVISION			
LET	DESCRIPTION	DATE	APPR'D
A	REDRAWN W/NO CHANGE	11-2-77	ABZ



- NOTES:
- UNLESS OTHERWISE SPECIFIED;
 - ALL UNMARKED RESISTANCES ARE 1/4W, 5%.
 - ALL UNMARKED CAPACITANCES ARE IN μ F.
 - FOR VALUES OF COMPONENTS MARKED WITH ASTERISK (*), REFER TO TABULATION CHART.
 - JUMPERS (HOOK-UP WIRE);
 - 50I ONLY '18 GA RED FROM "J" TO B7(S4).
 - 503 ONLY '18 GA RED FROM TB "B" TO A3, A5, A7(S2, S3, S4).
 - '18 GA WH FROM TB "T" TO A4, A6, A8(S2, S3, S4).

SCHEMATIC
INPUT PREAMP (MONO)
C7232

FIG.32
PG.71

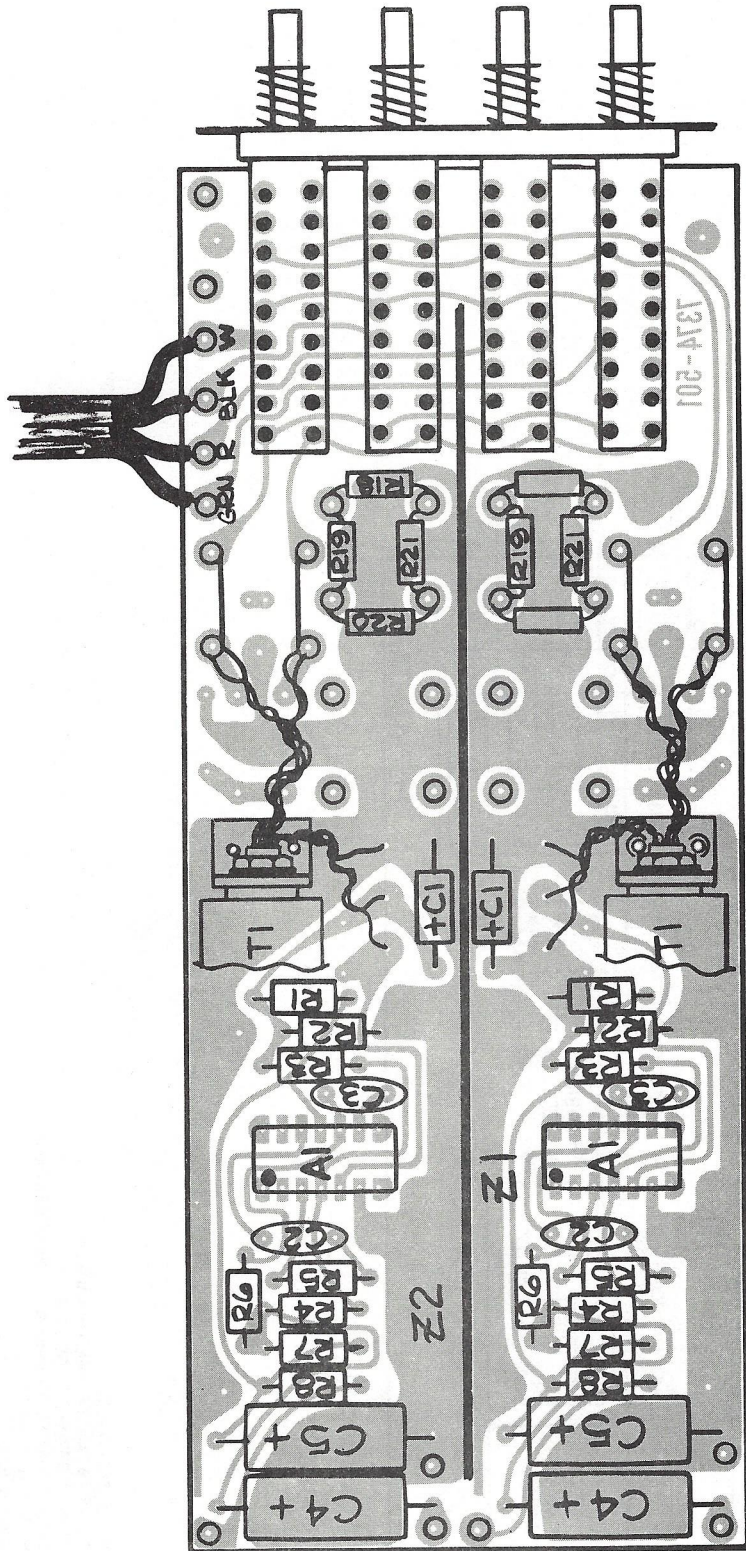
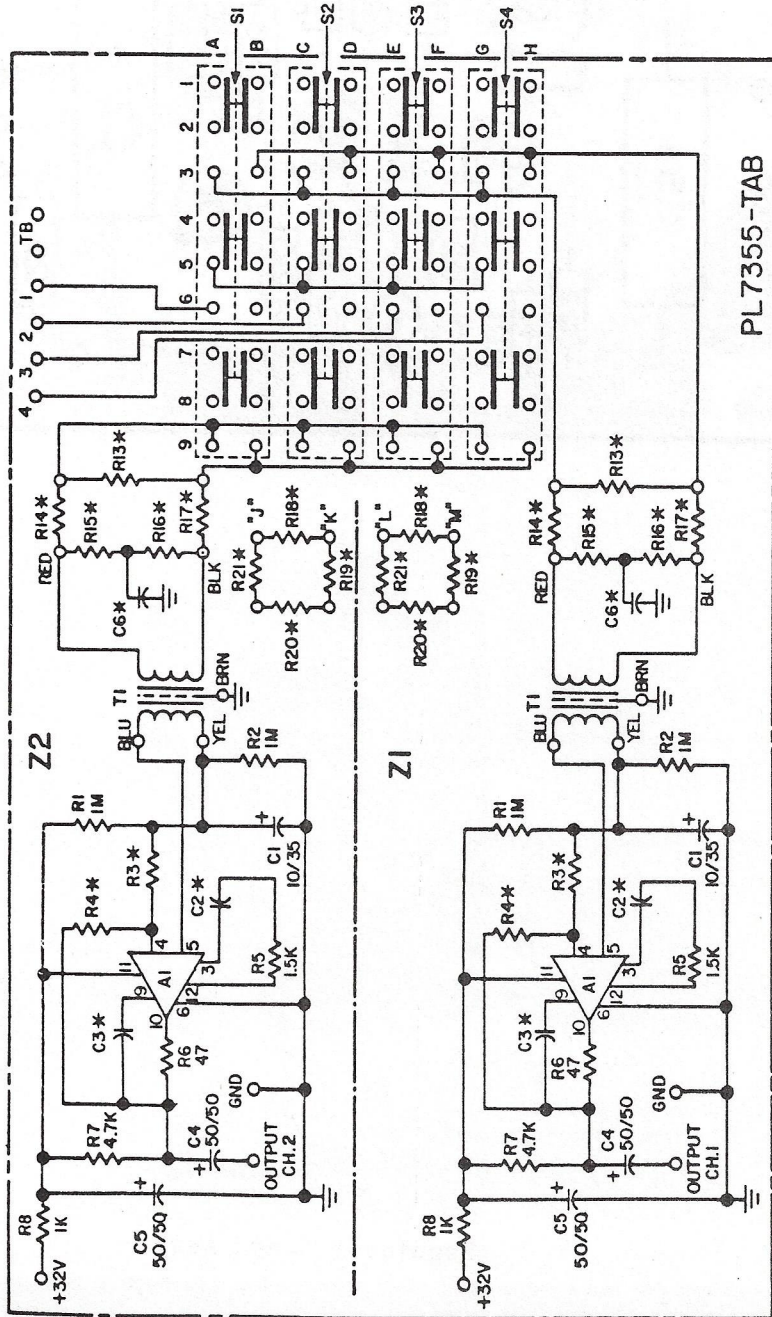


FIG. 33
PG. 72

Stereo Input Preamplifier Assy

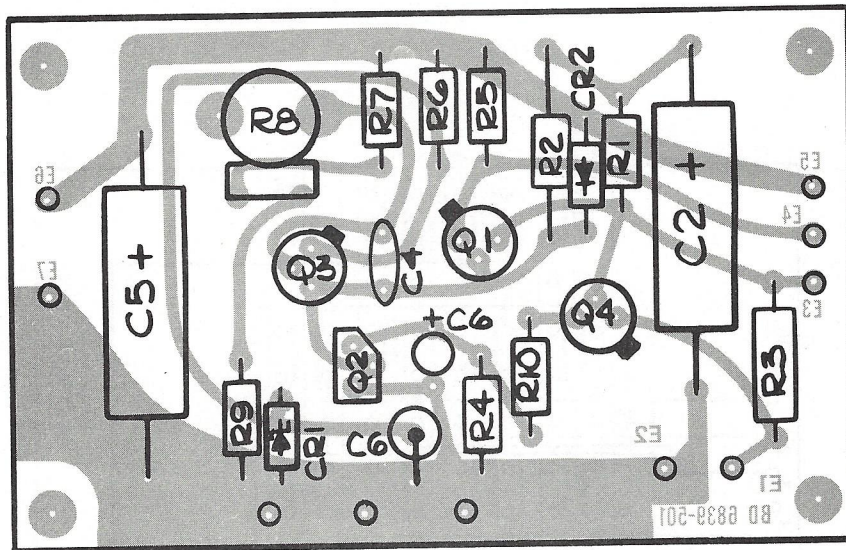
REVISION		DATE	APPRO
LET	DESCRIPTION		
A	REDRAWN W/NO CHANGE	12-07-77	



- NOTES:
- UNLESS OTHERWISE SPECIFIED:
 - ALL UNMARKED RESISTANCES ARE 1/4W, 5%.
 - ALL UNMARKED CAPACITANCES ARE IN μ F.
 - FOR VALUES OF COMPONENTS MARKED WITH ASTERISK (*), REFER TO TABULATION CHART, Z1(CH.A) & Z2(CH.B) ARE MIRROR CIRCUIT.
 - JUMPERS (HOOK-UP WIRE);
 - 501 ONLY: 18 GA RED FROM "J" TO G8(S4), 18 GA WH FROM "K" TO H8(S4), 18 GA RED FROM "L" TO G2(S4), 18 GA WH FROM "M" TO H2(S4).
 - 503 ONLY: 18 GA RED FROM TB "B" TO C1,E1,G1(S2,S3,S4), 18 GA WH FROM TB "T" TO D1,F1,H1(S2,S3,S4).

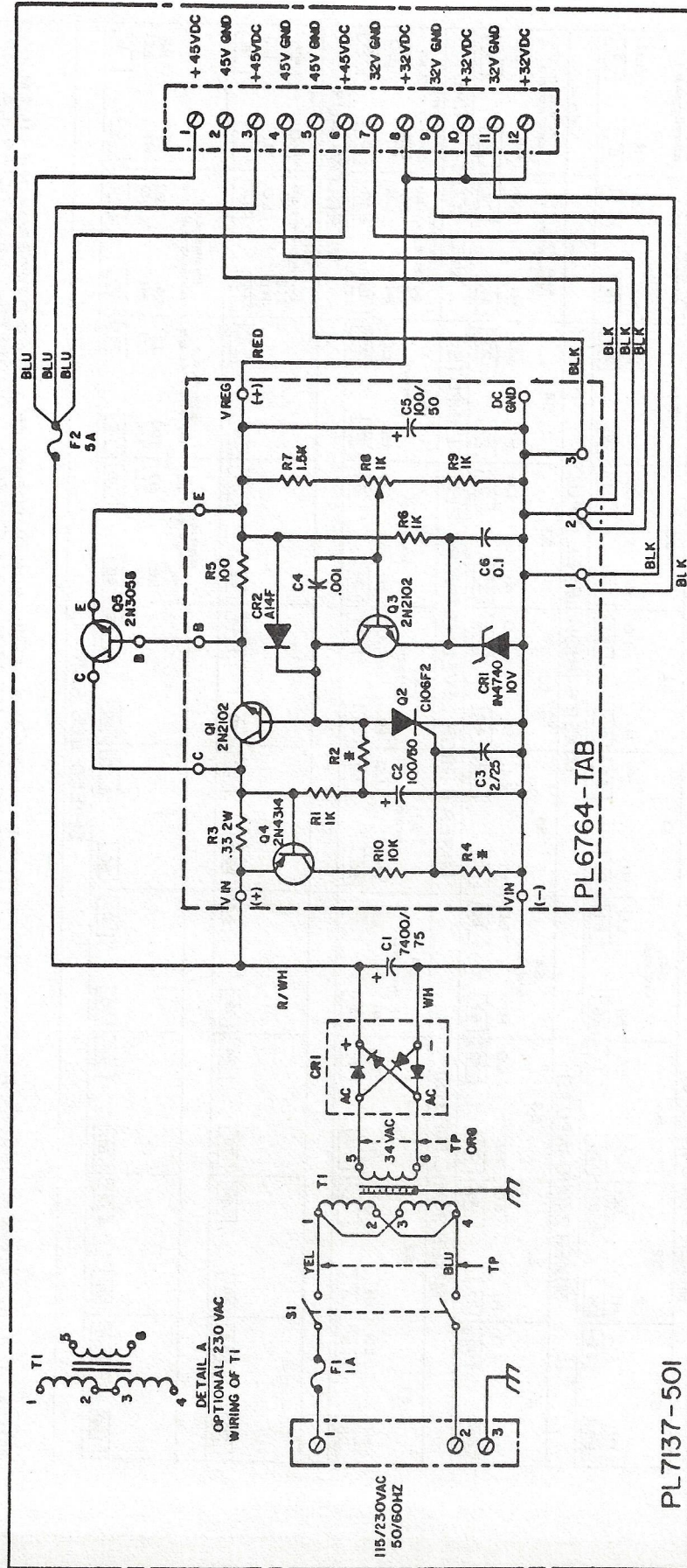
SCHEMATIC
INPUT PREAMP (STEREO)
C7506

FIG. 34
PG. 73



Regulator Board Assy

REVISIONS		DATE	APPROVED
ZONE LET	DESCRIPTION		
D	RELEASE TO PROD.	11-2-77	[Signature]



SCHEMATIC
POWER SUPPLY ASS'Y
AUDIO CONSOLE
C7508

- NOTES:
1. UNLESS OTHERWISE SPECIFIED, ALL RESISTANCES ARE 1/2 W, 5%.
 2. ALL CAPACITANCES ARE IN μ F.
 3. SEE PL6764 FOR VALUE OF R2 & R4 MARKED WITH *.
 4. SEE DETAIL 'A' FOR OPTIONAL WIRING OF T1.

FIG. 36
PG. 75

INPUT TERMINAL BLOCK AC/LC 6MB & 6DB

MIXER 1 (MIC INPUTS)				MIXER 4 (HIGH LEVEL INPUTS)				CH 1 PGM REC OUT OUTPUT PAD 1		CH 1 REM OUT OUTPUT PAD 1													
S2		S3		S4 VIA PAD		S1		S2		S3		S4		HI	LO								
HI	86	HI	81	LO	71	LO	61	HI	51	LO	41	HI	31	LO	21	HI	16	LO	11	HI	6	LO	1
LO	91	LO	86	HI	76	HI	66	LO	56	HI	46	LO	36	HI	26	HI	17	LO	12	HI	7	LO	2
MIXER 2 (MIC INPUTS)																							
S2		S3		S4 VIA PAD		S1		S2		S3		S4		PGM REC OUT SEE NOTE 1									
HI	87	HI	82	LO	72	LO	62	HI	52	LO	42	HI	32	LO	22	HI	18	LO	13	HI	8	LO	3
LO	92	LO	87	HI	77	HI	67	LO	57	HI	47	LO	37	HI	27	HI	19	LO	14	HI	9	LO	4
MIXER 3 (MIC INPUTS)																							
S2		S3		S4 VIA PAD		S1 NETWORK		S2 REMOTE		S3 REMOTE		S4 REMOTE		INPUT OUTPUT CKT BD									
HI	88	HI	83	LO	73	LO	63	HI	53	LO	43	HI	33	LO	23	HI	20	LO	15	HI	10	LO	5
LO	93	LO	88	HI	78	HI	68	LO	58	HI	48	LO	38	HI	28	HI	21	LO	16	HI	11	LO	6
INTERCOM-LOCAL																							
S2		S3		S4 VIA PAD		S1 NETWORK		S2 REMOTE		S3 REMOTE		S4 REMOTE		INPUT OUTPUT CKT BD									
HI	89	HI	84	LO	74	LO	64	HI	54	LO	44	HI	34	LO	24	HI	22	LO	17	HI	12	LO	7
LO	94	LO	89	HI	79	HI	69	LO	59	HI	49	LO	39	HI	29	HI	23	LO	18	HI	13	LO	8
INTERCOM-AUX																							
S2		S3		S4 VIA PAD		S1 NETWORK		S2 REMOTE		S3 REMOTE		S4 REMOTE		INPUT OUTPUT CKG BD									
HI	90	HI	85	LO	75	LO	65	HI	55	LO	45	HI	35	LO	25	HI	24	LO	19	HI	14	LO	9
LO	95	LO	90	HI	80	HI	70	LO	60	HI	50	LO	40	HI	30	HI	25	LO	20	HI	15	LO	10
SHIELD BUS BAR																							
S2		S3		S4 VIA PAD		S1 NETWORK		S2 REMOTE		S3 REMOTE		S4 REMOTE		INPUT OUTPUT CKG BD									
HI	96	HI	91	LO	81	LO	71	LO	61	HI	51	LO	41	HI	31	HI	26	LO	21	HI	16	LO	11
LO	97	LO	92	HI	82	HI	72	LO	62	LO	52	HI	42	LO	32	HI	27	LO	22	HI	17	LO	12
MON AUX 1 OUTPUT CKT BD																							
S2		S3		S4 VIA PAD		S1 NETWORK		S2 REMOTE		S3 REMOTE		S4 REMOTE		INPUT OUTPUT CKG BD									
HI	98	HI	93	LO	83	LO	73	LO	63	HI	53	LO	43	HI	33	HI	28	LO	23	HI	18	LO	13
LO	99	LO	94	HI	84	HI	74	LO	64	LO	54	HI	44	LO	34	HI	29	LO	24	HI	19	LO	14
MON AUX 2 OUTPUT CKT BD																							
S2		S3		S4 VIA PAD		S1 NETWORK		S2 REMOTE		S3 REMOTE		S4 REMOTE		INPUT OUTPUT CKG BD									
HI	100	HI	95	LO	85	LO	75	LO	65	HI	55	LO	45	HI	35	HI	30	LO	25	HI	20	LO	15
LO		LO		HI		HI		LO		LO		HI		LO		HI	31	LO	26	HI	21	LO	16

NOTES: 1. A. AC/LC-6MB MONAURAL CONSOLES PROVIDE AN UNBALANCED LOW LEVEL, HIGH IMPEDENCE CH. 2 PGM OUTPUT FROM THE CH. 2 MIXING BUS BOOST AMPLIFIER (OUTPUT CKT. BD. PINS 29/30) TO INPUT TERMINAL BLOCK PINS 7/2 (HI, LO). THIS PROVIDES A NOMINAL 0.1 VRMS AND WILL DRIVE A 10K OHM BALANCED (UNGROUND) LOAD. THE CH. 2 PGM REC OUTPUT IS NOT USED.

B. AC/LC-6DB DUAL MONAURAL CONSOLES PROVIDE +8 DBM CH. 2 PGM OUTPUT FROM OUTPUT PAD 3 PINS 3/2 (HI, LO) TO INPUT TERMINAL BLOCK PINS 7/2 (HI, LO), AND A -2 DBM CH. 2 PGM REC OUTPUT FROM OUTPUT PAD 3 PINS 6/7 (HI, LO) TO INPUT TERMINAL BLOCK PINS 17/12 (HI, LO).

INPUT TERMINAL BLOCK AC/LC 6SB & 6DSB

MIXER 1 - LEFT (MIC INPUTS)				MIXER 4 - LEFT (HIGH LEVEL INPUTS)				CH 1 PGM OUT-L OUTPUT PAD 2		CH 1 PGM OUT-R OUTPUT PAD 2	
S1-L	S2-L	S3-L	S4-L VIA PAD	S1-L	S2-L	S3-L	S4-L	3	2	3	2
HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO
172	154	136	118	100	82	64	46	28	19	10	1
173	155	137	119	101	83	65	47	29	20	11	2
174	156	138	120	102	84	66	48	30	21	12	3
175	157	139	121	103	85	67	49	31	22	13	4
176	158	140	122	104	86	68	50	32	23	14	5
177	159	141	123	105	87	69	51	33	24	15	6
178	160	142	124	106	88	70	52	34	25	16	7
179	161	143	125	107	89	71	53	35	26	17	8
180	162	144	126	108	90	72	54	36	27	18	9
MIXER 2 - LEFT (MIC INPUTS)				MIXER 5 - RIGHT (HIGH LEVEL INPUTS)				MON AUX 1			
S1-L	S2-L	S3-L	S4-L	S1-L	S2-L	S3-L	S4-L	98	97	104	103
HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO
174	147	138	111	102	84	66	48	30	21	12	3
175	148	139	112	103	85	67	49	31	22	13	4
176	149	140	113	104	86	68	50	32	23	14	5
177	150	141	114	105	87	69	51	33	24	15	6
178	151	142	115	106	88	70	52	34	25	16	7
179	152	143	116	107	89	71	53	35	26	17	8
180	153	144	117	108	90	72	54	36	27	18	9
MIXER 3 - LEFT (MIC INPUTS)				MIXER 6 - LEFT (HIGH LEVEL/NETWORK/REMOTE INPUTS)				INTERCOM-LOCAL			
S1-R	S2-R	S3-R	S4-R	S1-R	S2-R	S3-R	S4-R	109	55	110	55
HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO
166	148	139	121	103	85	67	49	31	22	13	4
167	149	140	122	104	86	68	50	32	23	14	5
168	150	141	123	105	87	69	51	33	24	15	6
169	151	142	124	106	88	70	52	34	25	16	7
170	152	143	125	107	89	71	53	35	26	17	8
171	153	144	126	108	90	72	54	36	27	18	9
MIXER 4 - RIGHT (HIGH LEVEL INPUTS)				MIXER 6 - RIGHT (HIGH LEVEL/NETWORK/REMOTE INPUTS)				INTERCOM-AUX			
S1-R	S2-R	S3-R	S4-R	S1-R	S2-R	S3-R	S4-R	115	56	116	56
HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO
164	146	137	119	101	83	65	47	29	20	11	2
165	147	138	120	102	84	66	48	30	21	12	3
166	148	139	121	103	85	67	49	31	22	13	4
167	149	140	122	104	86	68	50	32	23	14	5
168	150	141	123	105	87	69	51	33	24	15	6
169	151	142	124	106	88	70	52	34	25	16	7
170	152	143	125	107	89	71	53	35	26	17	8
171	153	144	126	108	90	72	54	36	27	18	9
MIXER 5 - LEFT (HIGH LEVEL INPUTS)				MIXER 6 - RIGHT (HIGH LEVEL/NETWORK/REMOTE INPUTS)				PHONE AUX			
S1-L	S2-L	S3-L	S4-L	S1-L	S2-L	S3-L	S4-L	124	123	126	125
HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO
174	147	138	111	102	84	66	48	30	21	12	3
175	148	139	112	103	85	67	49	31	22	13	4
176	149	140	113	104	86	68	50	32	23	14	5
177	150	141	114	105	87	69	51	33	24	15	6
178	151	142	115	106	88	70	52	34	25	16	7
179	152	143	116	107	89	71	53	35	26	17	8
180	153	144	117	108	90	72	54	36	27	18	9

NOTES: 1A. AC/LC-6SB STEREO CONSOLES. PROVIDES AN UNBALANCED LOW LEVEL, HIGH IMPEDANCE CH. 2 PGM OUTPUT FROM THE CO. 2 MIXING BUS BOOST AMPLIFIER (OUTPUT CKT BD PINS 29/30 LEFT AND PINS 43/44 -RIGHT). THESE OUTPUTS APPEAR AT INPUT TERMINAL BLOCK PINS 30/21 (HI, LO -LEFT) AND PINS 12/3 (HI, LO -RIGHT) AND PROVIDE A NOMINAL 0.1 VRMS AND WILL DRIVE A 10K OHM BALANCED (UNGROUND) LOAD. THE CH. 2 PGM REC OUTPUTS ARE NOT USED.

B. AC/LC-6DSB. DUAL STEREO CONSOLES. PROVIDE A +8 DBM CH. 2 PGM OUTPUT FROM PAD 3 PINS 3/2 TO INPUT TERMINAL BLOCK PINS 30/21 AND FROM OUTPUT PAD 4 PINS 3/2 TO INPUT TERMINAL BLOCK PINS 12/3. MATCHING CH. 2 PGM REC. OUTPUTS AT 10 DB BELOW PROGRAM LEVEL APPEAR AT INPUT TERMINAL BLOCK PINS 72/63 (HI, LO -LEFT) AND PINS 54/45 (HI, LO -RIGHT).

C. AC/LC-6SCB. SIMULCAST CONSOLES. PROVIDES A SUMMED MONAURAL CH. 2 PGM OUTPUT FROM OUTPUT PAD 3 PINS 3/2 TO INPUT TERMINAL BLOCK PINS 30/21. PINS 12/3 ARE NOT USED. MATCHING CH. 2 PGM REC OUTPUT AT 10 DB BELOW PROGRAM LEVEL APPEARS AT INPUT TERMINAL BLOCK PINS 72/63.

INPUT TERMINAL BLOCK AC/LC -8MB & -8DB

MIXER 1 (MIC INPUTS)				MIXER 5 (HIGH LEVEL INPUTS)				CH. 1 PGM REC OUT				CH. 1 PGM OUT											
S1		S2		S3		S4 VIA PAD		S1		S2		S3		S4		OUTPUT PAD 1		OUTPUT PAD 2					
HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO				
96	91	86	81	76	71	66	61	56	51	46	41	36	31	26	21	16	11	6	1				
S1		S2		S3		S4 VIA PAD		S1		S2		S3		S4		CH. 2							
HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	PGM OUT							
97	92	87	82	77	72	67	62	57	52	47	42	37	32	27	22	17	12	7	2				
MIXER 3 (MIC INPUTS)				MIXER 7 (HIGH LEVEL/NETWORK/REMOTE INPUTS)				INTERCOM-LOCAL				INTERCOM-AUX											
S1		S2		S3		S4 VIA PAD		S1 NETWORK		S2 REMOTE		S3 REMOTE		S4 REMOTE		INPUT OUTPUT CKT BD		OUTPUT CKT BD					
HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO				
98	93	88	83	78	73	68	63	58	53	48	43	38	33	28	23	18	13	8	3				
S1		S2		S3		S4 VIA PAD		S1 NETWORK		S2 REMOTE		S3 REMOTE		S4 REMOTE		INPUT OUTPUT CKT BD		OUTPUT CKT BD					
HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO				
99	94	89	84	79	74	69	64	59	54	49	44	39	34	29	24	19	14	9	4				
MIXER 4 (MIC INPUTS)				MIXER 8 (HIGH LEVEL/NETWORK/REMOTE INPUTS)				MON AUX 1				MON AUX 2				INT. CALL							
S1		S2		S3		S4 VIA PAD		S1 NETWORK		S2 REMOTE		S3 REMOTE		S4 REMOTE		OUTPUT CKT BD		OUTPUT CKT BD		OUTPUT CKT BD			
HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO
100	95	90	85	80	75	70	65	60	55	50	45	40	35	30	25	20	15	124	123	124	123	57	58

SHIELD BUS BAR

NOTES: 1.A AC/LC -8 MB MONAURAL CONSOLES PROVIDE AN UNBALANCED LOW LEVEL, HIGH IMPEDANCE CH. 2 PGM OUTPUT FROM THE CH. 2 MIXING BUS BOOST AMPLIFIER (OUTPUT CKT BD PINS 29/30 TO INPUT TERMINAL BLOCK PINS 7/2 (HI, LO). THIS PROVIDES A NOMINAL 0.1 VRMS AND WILL DRIVE A 10K OHM BALANCED (UNDERGROUND) LOAD. THE CH. 2 PGM REC OUTPUT IS NOT USED.

B AC/LC -8 DB DUAL MONAURAL CONSOLES PROVIDE +8 DBM CH. 2 PGM OUTPUT FROM OUTPUT PAD 3 PINS 3/2 (HI, LO) TO INPUT TERMINAL BLOCK PINS 7/2 (HI, LO), AND A -2 DBM CH. 2 PGM REC OUTPUT FROM OUTPUT PAD 3 PINS 6/7 (HI, LO) TO INPUT TERMINAL BLOCK PINS 17/12 (HI, LO).

INPUT TERMINAL BLOCK AC/LC -8SB, -8DSB & -8SCB

MIXER 1-LEFT (MIC INPUTS)				MIXER 5-LEFT (HIGH LEVEL INPUTS)				CH. 1	
S1-L	S2-L	S3-L	S4-L VIA PAD	S1-L	S2-L	S3-L	S4-L	PGM OUT-L OUTPUT PAD 1	PGM OUT-R OUTPUT PAD 2
HI 172	LO 154	HI 136	LO 118	HI 100	LO 82	HI 64	LO 46	HI 28	LO 10
LO 163	HI 145	LO 127	HI 109	LO 91	HI 73	LO 55	HI 37	HI 19	LO 1
MIXER 1-RIGHT (MIC INPUTS)				MIXER 5-RIGHT (HIGH LEVEL INPUTS)				CH. 1	
S1-R	S2-R	S3-R	S4-R VIA PAD	S1-R	S2-R	S3-R	S4-R	PGM REC OUT-L OUTPUT PAD 1	PGM REC OUT-R OUTPUT PAD 2
HI 173	LO 155	HI 137	LO 119	HI 101	LO 83	HI 65	LO 47	HI 29	LO 11
LO 164	HI 146	LO 128	HI 110	LO 92	HI 74	LO 56	HI 38	HI 20	LO 2
MIXER 2-LEFT (MIC INPUTS)				MIXER 6-LEFT (HIGH LEVEL INPUTS)				CH. 2	
S1-L	S2-L	S3-L	S4-L VIA PAD	S1-L	S2-L	S3-L	S4-L	PGM OUT-L SEE NOTE 1	PGM OUT-R SEE NOTE 1
HI 174	LO 156	HI 138	LO 120	HI 102	LO 84	HI 66	LO 48	HI 30	LO 12
LO 165	HI 147	LO 129	HI 111	LO 93	HI 75	LO 57	HI 39	LO 21	HI 3
MIXER 2-RIGHT (MIC INPUTS)				MIXER 6-RIGHT (HIGH LEVEL INPUTS)				MON AUX 1	
S1-R	S2-R	S3-R	S4-R VIA PAD	S1-R	S2-R	S3-R	S4-R	LEFT OUTPUT CKT BD	RIGHT OUTPUT CKT BD
HI 175	LO 157	HI 139	LO 121	HI 103	LO 85	HI 67	LO 49	HI 31	LO 13
LO 166	HI 148	LO 130	HI 112	LO 94	HI 76	LO 58	HI 40	LO 22	HI 4
MIXER 3-LEFT (MIC INPUTS)				MIXER 7-LEFT (High Level/Network/Remote Inputs)				MON AUX 2	
S1-L	S2-L	S3-L	S4-L VIA PAD	S1-L NETWORK	S2-L REMOTE	S3-L REMOTE	S4-L REMOTE	LEFT OUTPUT CKT BD	RIGHT OUTPUT CKT BD
HI 176	LO 158	HI 140	LO 122	HI 104	LO 86	HI 68	LO 50	HI 32	LO 14
LO 167	HI 149	LO 131	HI 113	LO 95	HI 77	LO 59	HI 41	LO 23	HI 5
MIXER 3-RIGHT (MIC INPUTS)				MIXER 7-RIGHT (High Level/Network/Remote Inputs)				INTERCOM-LOCAL	
S1-R	S2-R	S3-R	S4-R VIA PAD	S1-R NETWORK	S2-R REMOTE	S3-R REMOTE	S4-R REMOTE	OUTPUT CKT BD	INPUT CKT BD
HI 177	LO 159	HI 141	LO 123	HI 105	LO 87	HI 69	LO 51	HI 33	LO 15
LO 168	HI 150	LO 132	HI 114	LO 96	HI 78	LO 60	HI 42	LO 24	HI 6
MIXER 4-LEFT (MIC INPUTS)				MIXER 8-LEFT (High Level/Network/Remote Inputs)				INTERCOM-AUX	
S1-L	S2-L	S3-L	S4-L VIA PAD	S1-L NETWORK	S2-L REMOTE	S3-L REMOTE	S4-L REMOTE	OUTPUT CKT BD	INPUT CKT BD
HI 178	LO 160	HI 142	LO 124	HI 106	LO 88	HI 70	LO 52	HI 34	LO 16
LO 169	HI 151	LO 133	HI 115	LO 97	HI 79	LO 61	HI 43	LO 25	HI 7
MIXER 4-RIGHT (MIC INPUTS)				MIXER 8-RIGHT (High Level/Network/Remote Inputs)				PHONE AUX	
S1-R	S2-R	S3-R	S4-R VIA PAD	S1-R NETWORK	S2-R REMOTE	S3-R REMOTE	S4-R REMOTE	LEFT OUTPUT CKT BD	RIGHT OUTPUT CKT BD
HI 179	LO 161	HI 143	LO 125	HI 107	LO 89	HI 71	LO 53	HI 35	LO 17
LO 170	HI 152	LO 134	HI 116	LO 98	HI 80	LO 62	HI 44	LO 26	HI 8
HI 180	LO 171	HI 162	LO 153	HI 144	LO 135	HI 126	LO 117	HI 108	LO 109
LO 181	HI 163	LO 154	HI 145	LO 136	HI 127	LO 118	HI 109	LO 100	HI 91

SHIELD BUS BAR

- NOTES: 1A. AC/LC -8 SB, STEREO CONSOLES, PROVIDE AN UNBALANCED LOW LEVEL, HIGH IMPEDANCE CH. 2 PGM OUTPUT FROM THE CH. 2 MIXING BUS BOOST AMPLIFIER. (OUTPUT CKT BD PINS 29/30 LEFT AND PINS 43/44 -RIGHT). THESE OUTPUTS APPEAR AT INPUT TERMINAL BLOCK PINS 30/21 (HI, LO -LEFT) AND PINS 12/3 (HI, LO -RIGHT) AND PROVIDE A NOMINAL 0.1 VRMS AND WILL DRIVE A 10K OHM BALANCED (UNGROUND) LOAD. THE CH. 2 PGM REC OUTPUTS ARE NOT USED.
- B. AC/LC -8 DSB, DUAL STEREO CONSOLES, PROVIDES A + 8 DBM CH. 2 PGM OUTPUT FROM OUTPUT PAD 3 PINS 3/2 TO INPUT TERMINAL BLOCK PINS 30/21 AND FROM OUTPUT PAD 4 PINS 3/2 TO INPUT TERMINAL BLOCK PINS 12/3. MATCHING CO. 2 PGM REC. OUTPUTS AT 10 DB BELOW PROGRAM LEVEL APPEAR AT INPUT TERMINAL BLOCK PINS 72/63 (HI, LO -LEFT) AND PINS 54/45 (HI, LO -RIGHT).
- C. AC/LC -8 SCB, SIMULCAST CONSOLES, PROVIDES A SUMMED MONAURAL CH. 2 PGM OUTPUT FROM OUTPUT PAD 3 PINS 3/2 TO INPUT TERMINAL BLOCK PINS 30/21. PINS 12/3 ARE NOT USED. MATCHING CH. 2 PGM REC OUTPUT AT 10 DB BELOW PROGRAM LEVEL APPEARS AT INPUT TERMINAL BLOCK PINS 72/63.

INPUT TERMINAL BLOCK AC/LC -10MB & -10DB

MIXER 1 (MIC INPUTS)				MIXER 6 (HIGH LEVEL INPUTS)				CH. 1	
S1		S2		S3		S4		PGM REC OUT OUTPUT PAD 1	PGM OUT OUTPUT PAD 2
HI	109	LO	103	HI	67	LO	61	HI	19
LO	110	HI	104	LO	68	HI	62	LO	20
HI	116	LO	100	HI	69	LO	63	HI	21
LO	117	HI	105	LO	70	HI	64	LO	22
HI	118	LO	106	HI	71	LO	65	HI	23
LO	119	HI	107	LO	72	HI	66	LO	24
HI	120	LO	108	HI	73	LO	67	HI	25
LO		HI	109	LO	74	HI	68	LO	26
HI		LO	110	HI	75	LO	69	HI	27
LO		HI	111	LO	76	HI	70	LO	28
HI		LO	112	HI	77	LO	71	HI	29
LO		HI	113	LO	78	HI	72	LO	30
HI		LO	114	HI	79	LO	73	HI	31
LO		HI	115	LO	80	HI	74	LO	32
HI		LO	116	HI	81	LO	75	HI	33
LO		HI	117	LO	82	HI	76	LO	34
HI		LO	118	HI	83	LO	77	HI	35
LO		HI	119	LO	84	HI	78	LO	36
HI		LO	120	HI	85	LO	79	HI	37
LO		HI		LO	86	HI	80	LO	38
HI		LO		HI	87	LO	81	HI	39
LO		HI		LO	88	HI	82	LO	40
HI		LO		HI	89	LO	83	HI	41
LO		HI		LO	90	HI	84	LO	42
HI		LO		HI	91	LO	85	HI	43
LO		HI		LO	92	HI	86	LO	44
HI		LO		HI	93	LO	87	HI	45
LO		HI		LO	94	HI	88	LO	46
HI		LO		HI	95	LO	89	HI	47
LO		HI		LO	96	HI	90	LO	48
HI		LO		HI	97	LO	91	HI	49
LO		HI		LO	98	HI	92	LO	50
HI		LO		HI	99	LO	93	HI	51
LO		HI		LO	100	HI	94	LO	52
HI		LO		HI	101	LO	95	HI	53
LO		HI		LO	102	HI	96	LO	54
HI		LO		HI	103	LO	97	HI	55
LO		HI		LO	104	HI	98	LO	56
HI		LO		HI	105	LO	99	HI	57
LO		HI		LO	106	HI	100	LO	58
HI		LO		HI	107	LO	101	HI	59
LO		HI		LO	108	HI	102	LO	60
HI		LO		HI	109	LO	103	HI	61
LO		HI		LO	110	HI	104	LO	62
HI		LO		HI	111	LO	105	HI	63
LO		HI		LO	112	HI	106	LO	64
HI		LO		HI	113	LO	107	HI	65
LO		HI		LO	114	HI	108	LO	66
HI		LO		HI	115	LO	109	HI	67
LO		HI		LO	116	HI	110	LO	68
HI		LO		HI	117	LO	111	HI	69
LO		HI		LO	118	HI	112	LO	70
HI		LO		HI	119	LO	113	HI	71
LO		HI		LO	120	HI	114	LO	72
HI		LO		HI		LO	115	HI	73
LO		HI		LO		HI	116	LO	74
HI		LO		HI		LO	117	HI	75
LO		HI		LO		HI	118	LO	76
HI		LO		HI		LO	119	HI	77
LO		HI		LO		HI	120	LO	78
HI		LO		HI		LO		HI	79
LO		HI		LO		HI		LO	80
HI		LO		HI		LO		HI	81
LO		HI		LO		HI		LO	82
HI		LO		HI		LO		HI	83
LO		HI		LO		HI		LO	84
HI		LO		HI		LO		HI	85
LO		HI		LO		HI		LO	86
HI		LO		HI		LO		HI	87
LO		HI		LO		HI		LO	88
HI		LO		HI		LO		HI	89
LO		HI		LO		HI		LO	90
HI		LO		HI		LO		HI	91
LO		HI		LO		HI		LO	92
HI		LO		HI		LO		HI	93
LO		HI		LO		HI		LO	94
HI		LO		HI		LO		HI	95
LO		HI		LO		HI		LO	96
HI		LO		HI		LO		HI	97
LO		HI		LO		HI		LO	98
HI		LO		HI		LO		HI	99
LO		HI		LO		HI		LO	100
HI		LO		HI		LO		HI	101
LO		HI		LO		HI		LO	102
HI		LO		HI		LO		HI	103
LO		HI		LO		HI		LO	104
HI		LO		HI		LO		HI	105
LO		HI		LO		HI		LO	106
HI		LO		HI		LO		HI	107
LO		HI		LO		HI		LO	108
HI		LO		HI		LO		HI	109
LO		HI		LO		HI		LO	110
HI		LO		HI		LO		HI	111
LO		HI		LO		HI		LO	112
HI		LO		HI		LO		HI	113
LO		HI		LO		HI		LO	114
HI		LO		HI		LO		HI	115
LO		HI		LO		HI		LO	116
HI		LO		HI		LO		HI	117
LO		HI		LO		HI		LO	118
HI		LO		HI		LO		HI	119
LO		HI		LO		HI		LO	120

SHIELD BUS BAR

- NOTES: 1A. AC/LC -10 MB MONAURAL CONSOLES PROVIDE AN UNBALANCED LOW LEVEL, HIGH IMPEDANCE CH. 2 PGM OUTPUT FROM THE CH. 2 MIXING BUS BOOST AMPLIFIER (OUTPUT CKT BD PINS 29/30 TO INPUT TERMINAL BLOCK PINS 7/2 (HI, LO). THIS PROVIDES A NOMINAL 0.1 VRMS AND WILL DRIVE A 10K OHM BALANCED (UNGROUND) LOAD. THE CH. 2 PGM REC OUTPUT IS NOT USED.
- B. AC/LC - 10 DB DUAL MONAURAL CONSOLES PROVIDE +8 DBM CH. 2 PGM OUTPUT FROM OUTPUT PAD 3 PINS 3/2 (HI, LO) TO INPUT TERMINAL BLOCK PINS 8/2 (HI, LO), PGM REC OUTPUT FROM OUTPUT PAD 3 PINS 6/7 (HI, LO) TO INPUT TERMINAL BLOCK PINS 20/14 (HI, LO).

INPUT TERMINAL BLOCK AC/LC -10SB, -10DSB & -10SCB

MIXER 1-LEFT (MIC INPUTS)		S3-L		S4-L VIA PAD		S1-L		S2-L		S3-L		S4-L		CH. 1 PGM OUT-L OUTPUT PAD 1		CH. 1 PGM OUT-R OUTPUT PAD 2	
HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO
191	181	171	161	151	141	131	121	111	101	91	81	71	61	51	41	31	21
MIXER 1-RIGHT (MIC INPUTS)		S3-R		S4-R VIA PAD		S1-R		S2-R		S3-R		S4-R		CH. 1 PGM REC OUTPUT PAD 1		CH. 1 PGM REC OUTPUT PAD 2	
HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO
192	182	172	162	152	142	132	122	112	102	92	82	72	62	52	42	32	22
MIXER 2-LEFT (MIC INPUTS)		S3-L		S4-L VIA PAD		S1-L		S2-L		S3-L		S4-L		CH. 2 PGM OUT-L SEE NOTE 1		CH. 2 PGM OUT-R SEE NOTE 1	
HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO
193	183	173	163	153	143	133	123	113	103	93	83	73	63	53	43	33	23
MIXER 2-RIGHT (MIC INPUTS)		S3-R		S4-R VIA PAD		S1-R		S2-R		S3-R		S4-R		MON AUX 1 OUTPUT CRT BD		MON AUX 1 OUTPUT CRT BD	
HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO
194	184	174	164	154	144	134	124	114	104	94	84	74	64	54	44	34	24
MIXER 3-LEFT (MIC INPUTS)		S3-L		S4-L VIA PAD		S1-L		S2-L		S3-L		S4-L		MON AUX 2 OUTPUT CRT BD		MON AUX 2 OUTPUT CRT BD	
HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO
195	185	175	165	155	145	135	125	115	105	95	85	75	65	55	45	35	25
MIXER 3-RIGHT (MIC INPUTS)		S3-R		S4-R VIA PAD		S1-R		S2-R		S3-R		S4-R		INTERCOM-LOCAL OUTPUT CRT BD		INTERCOM-LOCAL OUTPUT CRT BD	
HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO
196	186	176	166	156	146	136	126	116	106	96	86	76	66	56	46	36	26
MIXER 4-LEFT (MIC INPUTS)		S3-L		S4-L VIA PAD		S1-L		S2-L		S3-L		S4-L		INTERCOM-AUX OUTPUT CRT BD		INTERCOM-AUX OUTPUT CRT BD	
HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO
197	187	177	167	157	147	137	127	117	107	97	87	77	67	57	47	37	27
MIXER 4-RIGHT (MIC INPUTS)		S3-R		S4-R VIA PAD		S1-R		S2-R		S3-R		S4-R		INTERCOM CALL OUTPUT CRT BD		INTERCOM CALL OUTPUT CRT BD	
HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO
198	188	178	168	158	148	138	128	118	108	98	88	78	68	58	48	38	28
MIXER 5-LEFT (HIGH LEVEL INPUTS)		S3-L		S4-L		S1-L NETWORK		S2-L REMOTE		S3-L REMOTE		S4-L REMOTE		PHONE AUX LEFT OUTPUT CRT BD		PHONE AUX RIGHT OUTPUT CRT BD	
HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO
199	189	179	169	159	149	139	129	119	109	99	89	79	69	59	49	39	29
MIXER 5-RIGHT (HIGH LEVEL INPUTS)		S3-R		S4-R		S1-R NETWORK		S2-R REMOTE		S3-R REMOTE		S4-R REMOTE		CH-2 PGM REC OUT-L SEE NOTE 1		CH-2 PGM REC OUT-R SEE NOTE 1	
HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO
200	190	180	170	160	150	140	130	120	110	100	90	80	70	60	50	40	30

SHIELD BUS BAR

- NOTES: 1A. AC/LC -10 SB, STEREO CONSOLES, PROVIDES AN UNBALANCED LOW LEVEL, HIGH IMPEDANCE CH. 2 PGM OUTPUT FROM THE CH. 2 MIXING BUS BOOST AMPLIFIER (OUTPUT CRT BD PINS 29/30 LEFT AND PINS 43/44 -RIGHT). THESE OUTPUTS APPEAR AT INPUT TERMINAL BLOCK PINS 33/23 (HI, LO -LEFT) AND PINS 13/3 (HI, LO -RIGHT) AND PROVIDE A NOMINAL 0.1 VRMS AND WILL DRIVE A 10K OHM BALANCED (UNGROUNDING) LOAD. THE CH. 2 PGM REC OUTPUTS ARE NOT USED.
- B. AC/LC -10 DSB, DUAL STEREO CONSOLES, PROVIDES A +8 DBM CH. 2 PGM OUTPUT FROM OUTPUT PAD 3 PINS 3/2 TO INPUT TERMINAL BLOCK PINS 33/32 AND FROM OUTPUT PAD 4 PINS 3/2 TO INPUT TERMINAL BLOCK PINS 13/3. MATCHING CH. 2 PGM REC. OUTPUTS AT 10 DB BELOW PROGRAM LEVEL APPEAR AT INPUT TERMINAL BLOCK PINS 40/30 (HI, LO -LEFT) AND PINS 20/10 (HI, LO -RIGHT).
- C. AC/LC -10 SCB, SIMULCAST CONSOLES, PROVIDES A SUMMED MONAURAL CH. 2 PGM OUTPUT FROM OUTPUT PAD 3 PINS 3/2 TO INPUT TERMINAL BLOCK PINS 33/23. PINS 13/3 ARE NOT USED. MATCHING CH. 2 PGM REC OUTPUT AT 10 DB BELOW PROGRAM LEVEL APPEARS AT INPUT TERMINAL BLOCK PINS 40/30.

**INPUT TERMINAL BLOCK AC/LC -12MB, -12DMB, -12SB, -12DSB & -12SCB
INPUT TERMINAL BLOCK NO. 1 (LEFT HAND)**

MIXER 1 (MIC INPUTS)				MIXER 7 (HIGH LEVEL INPUTS)				CH. 1					
S2-L		S3-L		S4-L VIA PAD		S1-L		S4-L		PGM REC OUT-L OUTPUT PAD 1		CH. 1	
HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO
109	103	97	91	79	73	67	61	55	49	43	37	31	25
MIXER 2 (MIC INPUTS)				MIXER 8 (HIGH LEVEL INPUTS)				CH. 2					
S2-L		S3-L		S4-L VIA PAD		S1-L		S4-L		PGM REC OUT-L SEE NOTES		CH. 2	
HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO
110	104	98	92	86	80	74	68	62	56	50	44	38	32
MIXER 3 (MIC INPUTS)				MIXER 9 (HIGH LEVEL INPUTS)				INTERCOM-LOCAL					
S2-L		S3-L		S4-L VIA PAD		S1-L		S4-L		INPUT OUTPUT CKT BD		OUTPUT CKT BD	
HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO
111	105	99	93	87	81	75	69	63	57	51	45	39	33
MIXER 4 (MIC INPUTS)				MIXER 10 (HIGH LEVEL INPUTS)				INTERCOM-AUX					
S2-L		S3-L		S4-L VIA PAD		S1-L		S4-L		INPUT OUTPUT CKT BD		OUTPUT CKT BD	
HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO
112	106	100	94	88	82	76	70	64	58	52	46	40	34
MIXER 5 (MIC INPUTS)				MIXER 11 (HIGH LEVEL/NETWORK/REMOTE INPUTS)				PHONE AUX IN.					
S2-L		S3-L		S4-L VIA PAD		S1-L NETWORK		S4-L REMOTE		OUTPUT CKT BD		OUTPUT CKT BD	
HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO
113	107	101	95	89	83	77	71	65	59	53	47	41	35
MIXER 6 (MIC INPUTS)				MIXER 12 (HIGH LEVEL/NETWORK/REMOTE INPUTS)				MON. AUX 1					
S2-L		S3-L		S4-L VIA PAD		S1-L NETWORK		S4-L REMOTE		OUTPUT CKT BD		OUTPUT CKT BD	
HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO	HI	LO
114	108	102	96	90	84	78	72	66	60	54	48	42	36

SHIELD BUS BAR

- NOTES: 1. FOR AC/LC -12MB & -12DB, USE INPUT BLOCK #1 (LEFT) ONLY.
2. TERMINAL BLOCK #1 (LEFT HAND) CARRIES ALL LEFT CHANNEL INPUTS & OUTPUTS, AND INTERCOM FUNCTIONS.
3. TERMINAL BLOCK #2 (RIGHT HAND) CARRIES ALL RIGHT CHANNEL INPUTS & OUTPUTS (INTERCOM CONNECTIONS ARE NOT USED).
- 4A. AC/LC -12MB, MONAURAL CONSOLE, PROVIDES AN UNBALANCED, LOW LEVEL HIGH IMPEDANCE CH. 2 PGM OUTPUT FROM THE CH. 2 MIXING BUS BOOST AMPLIFIER (OUTPUT CKT. BD PINS 29/30) TO INPUT TERMINAL BLOCK #1 PINS 8/2 (HI, LO). THIS PROVIDES A NOMINAL 0.1 VRMS AND WILL DRIVE A 10K OHM BALANCED (UNGROUND) LOAD. THE CH. 2 PGM REC OUTPUT IS NOT USED.
- B. AC/LC -12DB, DUAL MONAURAL CONSOLE, PROVIDES A +8 DBM CH. 2 PGM OUTPUT FROM OUTPUT PAD 3 PINS 3/2 (HI, LO) TO INPUT TERMINAL BLOCK #1 PINS 8/2 (HI, LO) AND A -2DBM CH. 2 PGM REC OUTPUT FROM OUTPUT PAD 3 PINS 6/7 (HI, LO) TO INPUT TERMINAL BLOCK #1 PINS 20/14 (HI, LO).
- C. AC/LC -12SB, STEREO CONSOLE, PROVIDES AN UNBALANCED LOW LEVEL, HIGH IMPEDANCE CH. 2 PGM OUTPUT FROM THE CH. 2 MIXING BUS BOOST AMPLIFIER (OUTPUT CKT. BD PINS 29/30 -LEFT AND PINS 43/43 -RIGHT). THESE OUTPUTS APPEAR AT INPUT TERMINAL BLOCKS PINS 8/2 (HI, LO), AND PROVIDE A NOMINAL 0.1 VRMS AND WILL DRIVE A 10K OHM BALANCED (UNGROUND) LOAD. THE CH. 2 PGM REC OUTPUTS ARE NOT USED.
- D. AC/LC -12DSB, DUAL STEREO CONSOLE, PROVIDES, A +8 DBM CH. 2 PGM OUTPUT FROM OUTPUT PAD 3 PINS 3/2 TO INPUT TERMINAL BLOCK #1 (LEFT) PINS 8/2 AND FROM OUTPUT PAD 4 PINS 3/2 TO INPUT TERMINAL BLOCK #2 (RIGHT) PINS 8/2. MATCHING CH. 2 PGM REC OUTPUTS AT 10 DB BELOW PROGRAM LEVEL APPEARS AT INPUT TERMINAL BLOCK #1 (LEFT) PINS 20/14 (HI, LO -LEFT) AND AT INPUT TERMINAL BLOCK #2 (RIGHT) PINS 20/14 (HI, LO -RIGHT).
- E. AC/LC -12SCB, SIMULCAST CONSOLE, PROVIDES A SUMMED MONAURAL CH. 2 PGM OUTPUT FROM OUTPUT PAD 3 PINS 3/2 TO INPUT TERMINAL BLOCK #1 (LEFT) PINS 8/2. MATCHING CH. 2 PGM REC OUTPUT AT 10 DB BELOW PROGRAM LEVEL APPEARS AT INPUT TERMINAL BLOCK #1 (LEFT) PINS 20/14.

SIGNATURES		DAY/MO/YR	
DRAWN EKAY		30 9 77	
CHECKED			
ISSUED			
ENG Asy		27 1 77	
MFG			
FINISH			

DO NOT SCALE DRAWING

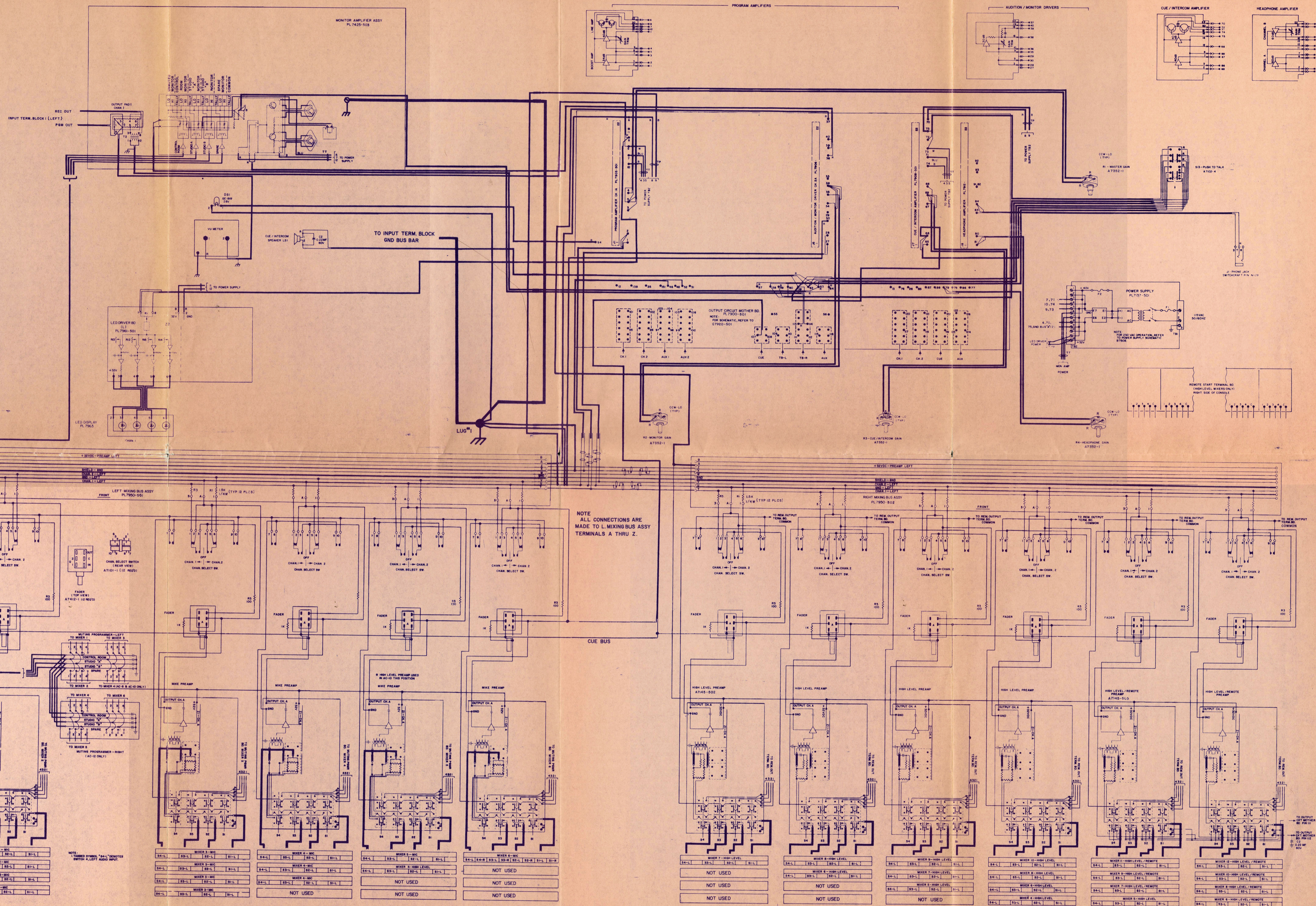
AMPRO BROADCASTING, INC.
850 PENNSYLVANIA BLVD
PENNSYLVANIA, PA. 15067

FUNCTIONAL SCHEMATIC DIAGRAM
MONAURAL AUDIO CONSOLE
MODEL AC/LC-12MB

SIZE CODE IDENT NO: **D 27926 7982**

SCALE SHEET

REV



AC-12MB	MIXER 1-MIC	B4-L	B3-L	B2-L	B1-L
AC-10MB	MIXER 1-MIC	B4-L	B3-L	B2-L	B1-L
AC-8MB	MIXER 1-MIC	B4-L	B3-L	B2-L	B1-L
AC-6MB	MIXER 1-MIC	B4-L	B3-L	B2-L	B1-L
	MIXER 2-MIC	B4-L	B3-L	B2-L	B1-L
	MIXER 3-MIC	B4-L	B3-L	B2-L	B1-L
	MIXER 4-MIC	B4-L	B3-L	B2-L	B1-L
	MIXER 5-HIGH LEVEL	B4-L	B3-L	B2-L	B1-L
	MIXER 6-MIC	B4-L	B3-L	B2-L	B1-L
	MIXER 7-HIGH LEVEL	B4-L	B3-L	B2-L	B1-L
	MIXER 8-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 9-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 10-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 11-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 12-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 13-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 14-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 15-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 16-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 17-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 18-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 19-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 20-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 21-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 22-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 23-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 24-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 25-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 26-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 27-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 28-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 29-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 30-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 31-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 32-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 33-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 34-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 35-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 36-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 37-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 38-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 39-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 40-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 41-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 42-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 43-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 44-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 45-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 46-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 47-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 48-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 49-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 50-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 51-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 52-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 53-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 54-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 55-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 56-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 57-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 58-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 59-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 60-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 61-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 62-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 63-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 64-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 65-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 66-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 67-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 68-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 69-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 70-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 71-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 72-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 73-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 74-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 75-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 76-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 77-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 78-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 79-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 80-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 81-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 82-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 83-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 84-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 85-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 86-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 87-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 88-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 89-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 90-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 91-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 92-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 93-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 94-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 95-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 96-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 97-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 98-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 99-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L
	MIXER 100-HIGH LEVEL/REMOTE PREAMP	B4-L	B3-L	B2-L	B1-L

FUNCTIONAL SCHEMATIC DIAGRAM
MONAURAL AUDIO CONSOLE

FIG. P6.

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