



C46

AUDIO CONTROL CENTER



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McIntosh®

SERVICE MANUAL

PERFORMANCE SPECIFICATIONS

Frequency Response

+0, -0/5dB from 20Hz to 20,000Hz

Total Harmonic Distortion

0.002% maximum from 20Hz to 20,000Hz

Signal To Noise Ratio

Phono: 86dB (A Weighted)

High Level: 97dB (A Weighted)

Rated Output Voltage

Unbalanced Main and Outputs 1 and 2: 2.5Vrms

Balanced Main and Outputs 1 and 2: 5Vrms

Maximum Voltage Output

Main and Outputs 1 and 2: 10Vrms

Output Impedance

240 ohms

Input Impedance

Phono: 47k ohms, 65pf

High Level: 22k ohms

Sensitivity

Phono: 4.5mV for rated output

High Level: 450mV for rated output

Maximum Input Signal

Phono: 50mV

High Level: 5V

Voltage Gain

Phono to Tape Out: 40dB

High Level to Tape Out: 0dB

High Level to Main Out: 15dB

Power Requirements

100 Volts, 50/60Hz, 50 Watts

110 Volts, 50/60Hz, 50 Watts

120 Volts, 50/60Hz, 50 Watts

220 Volts, 50/60Hz, 50 Watts

230 Volts, 50/60Hz, 50 Watts

240 Volts, 50/60Hz, 50 Watts

Note: Refer to the rear panel of the C46 for the correct voltage.

Dimensions

Width: 17-1/2 inches (44.5cm)

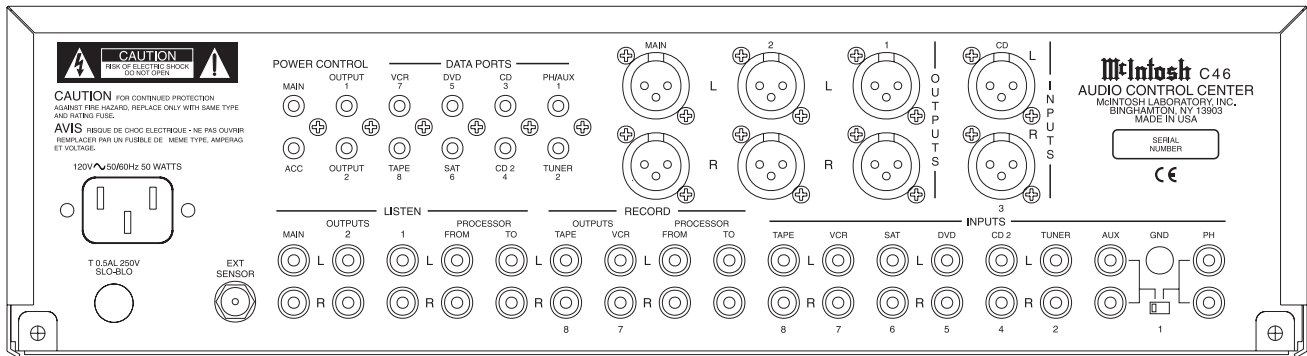
Height: 5-3/8 inches (13.7cm)

Depth: 17-1/2 inches (44.5cm), including clearance for connectors

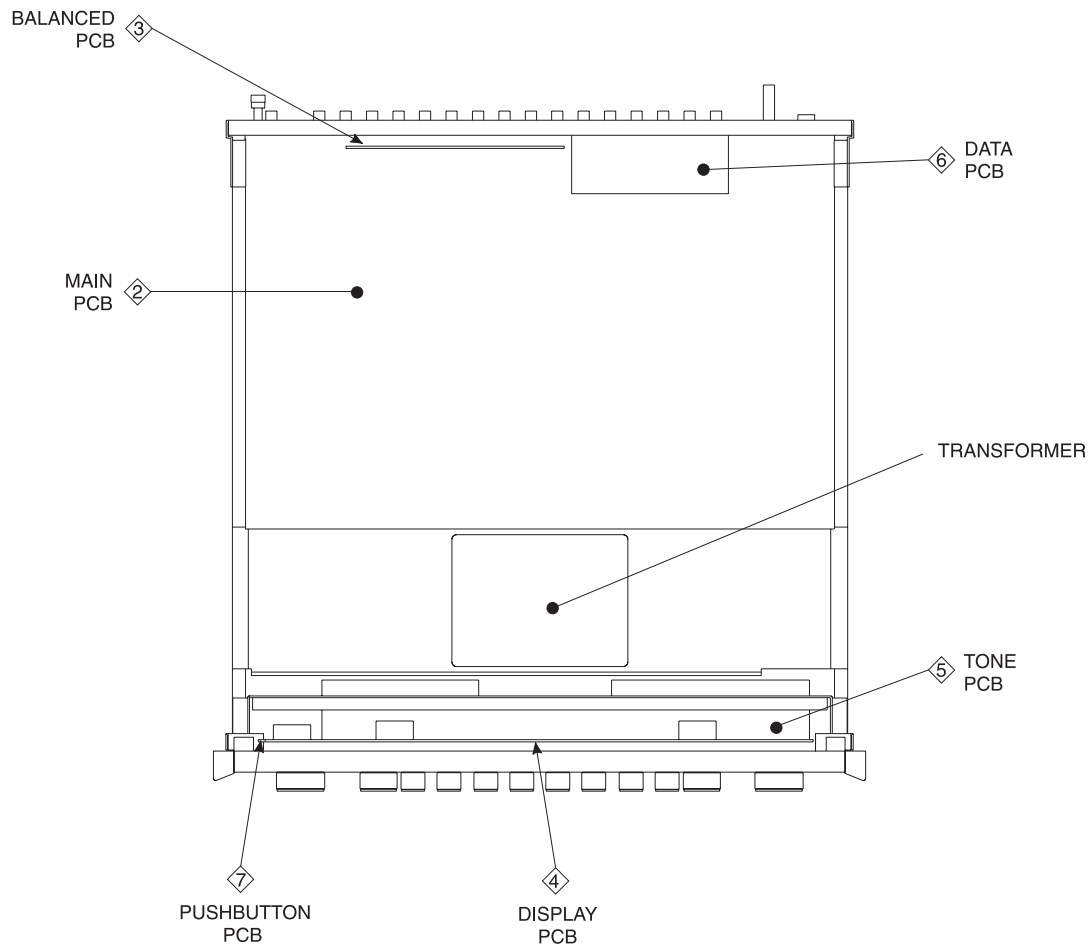
NOTES

1. The heavy notes on the schematic denote the primary signal path.
2. Unless otherwise noted, all voltages indicated on the schematics are measured under the following conditions:
 - a. AC input at 120 volts, 50/60Hz.
 - b. All voltages are +/-10% with respect to ground. A high impedance (10 megaohm) voltmeter must be used.
3. Unless otherwise specified:
 - a. Resistor values are in ohms.
 - b. Capacitor values are microfarads (uF).
 - c. Inductor values are in microhenries (uH).
4. On PC board drawings, Square pad indicates:
 - a. Polarized Capacitors - Positive
 - b. Diodes - Cathode
 - c. Others - Pin 1
5. **WARNING**
Parts marked with the symbol  have critical characteristics. Use only replacement parts recommended by the manufacturer.

REAR VIEW

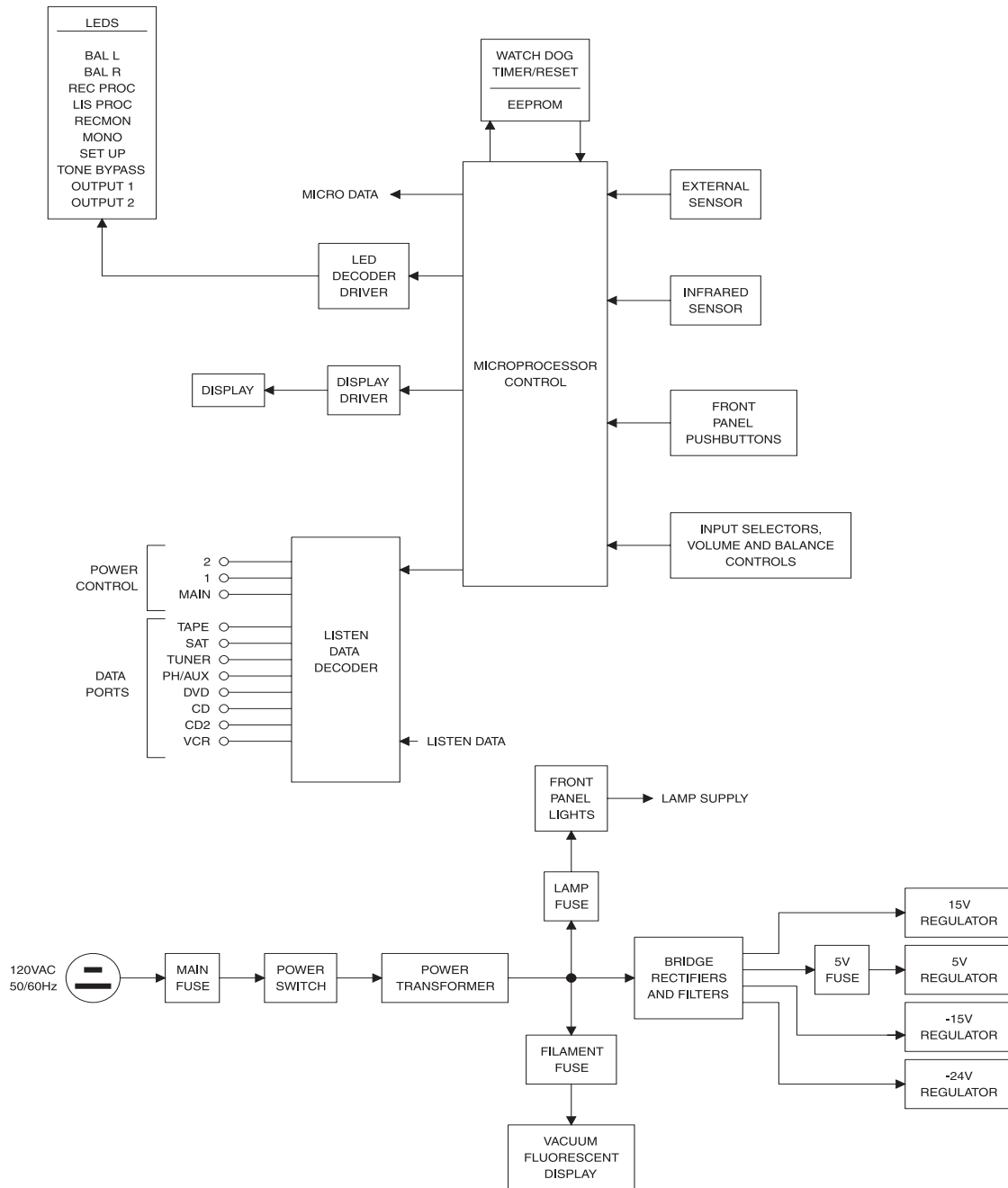


SECTION LOCATION

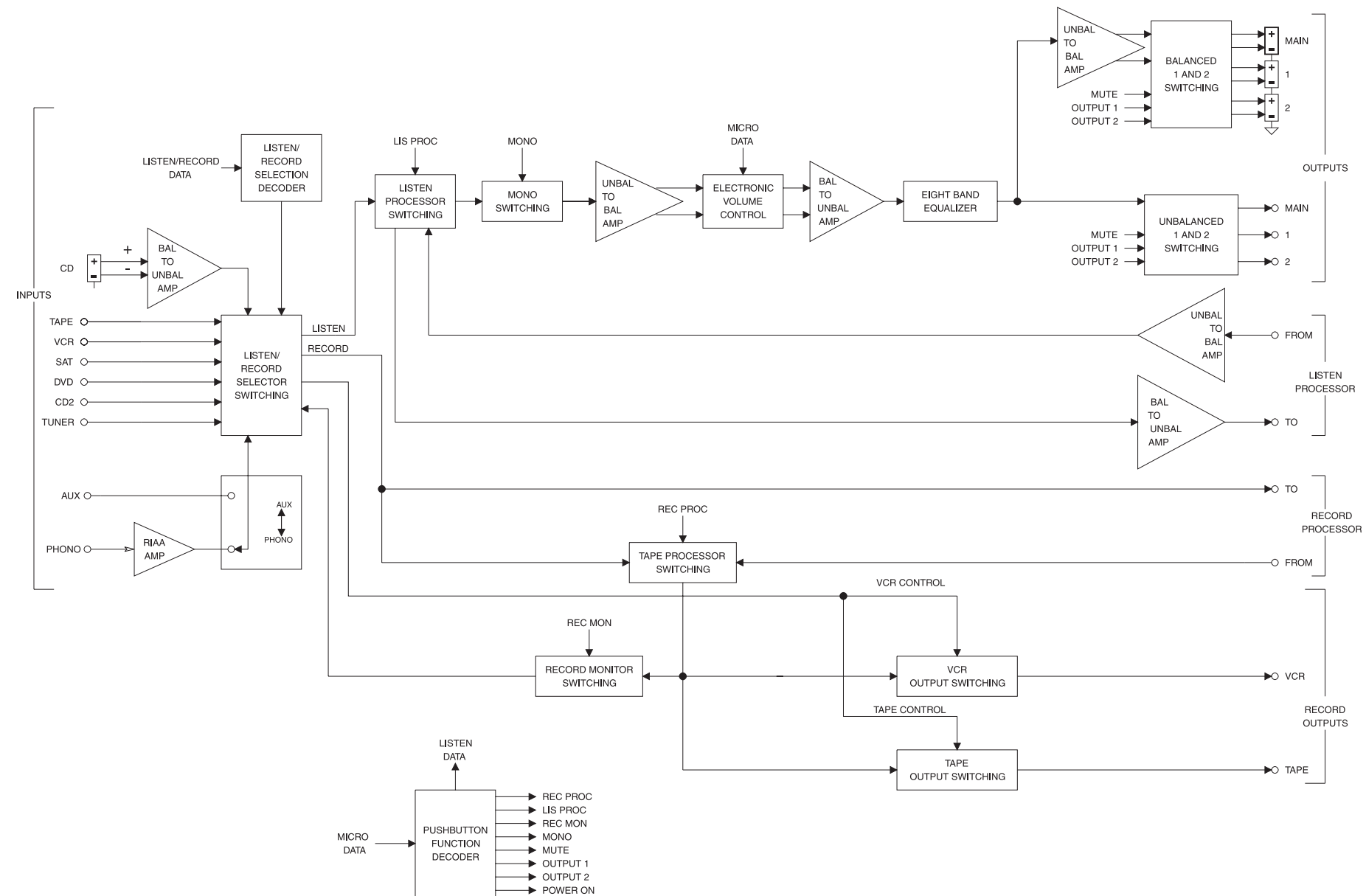


TOP VIEW WITH COVER REMOVED

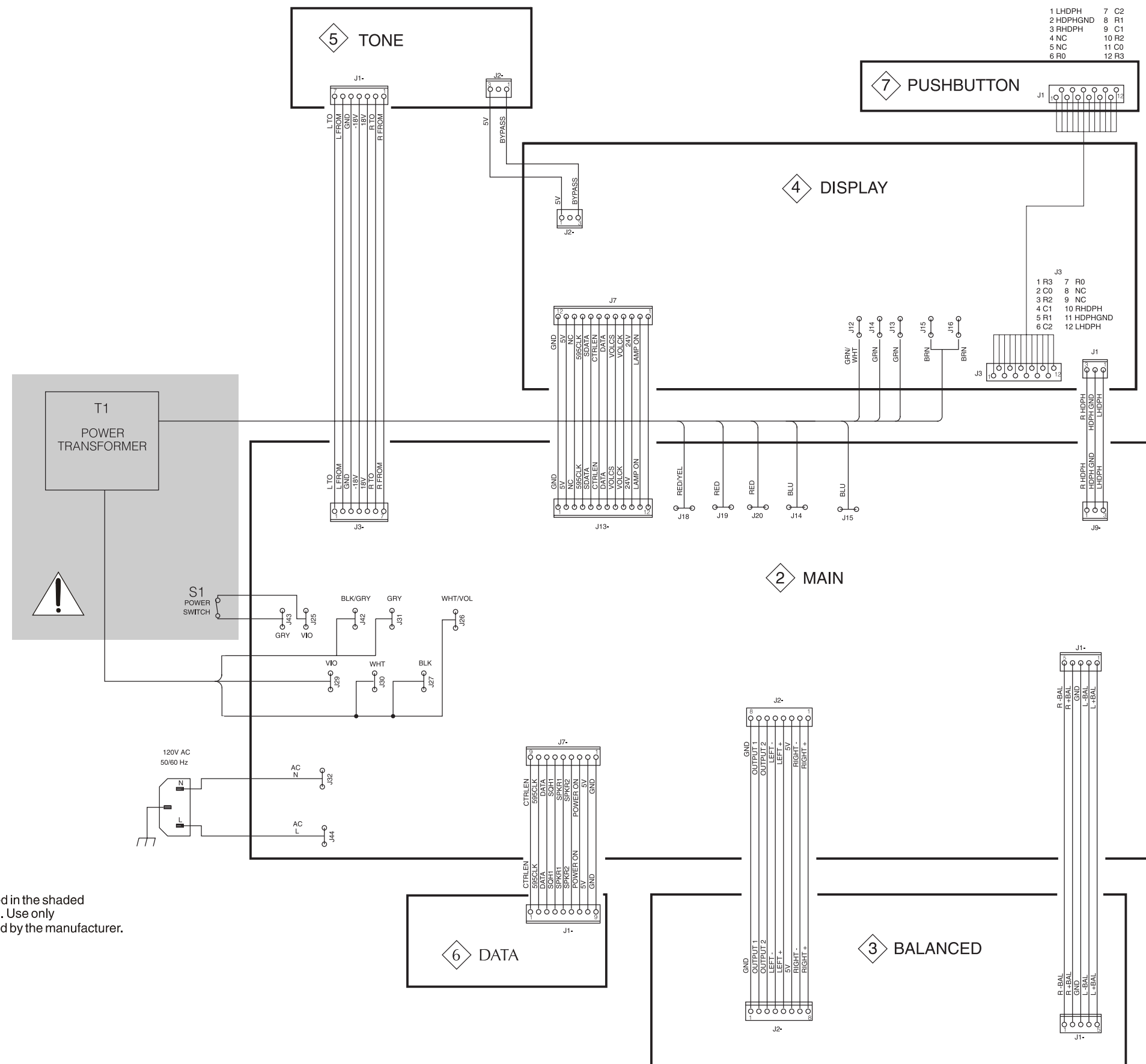
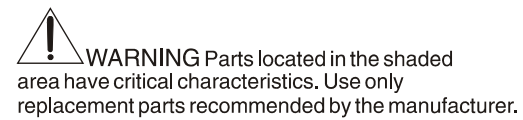
BLOCK DIAGRAM

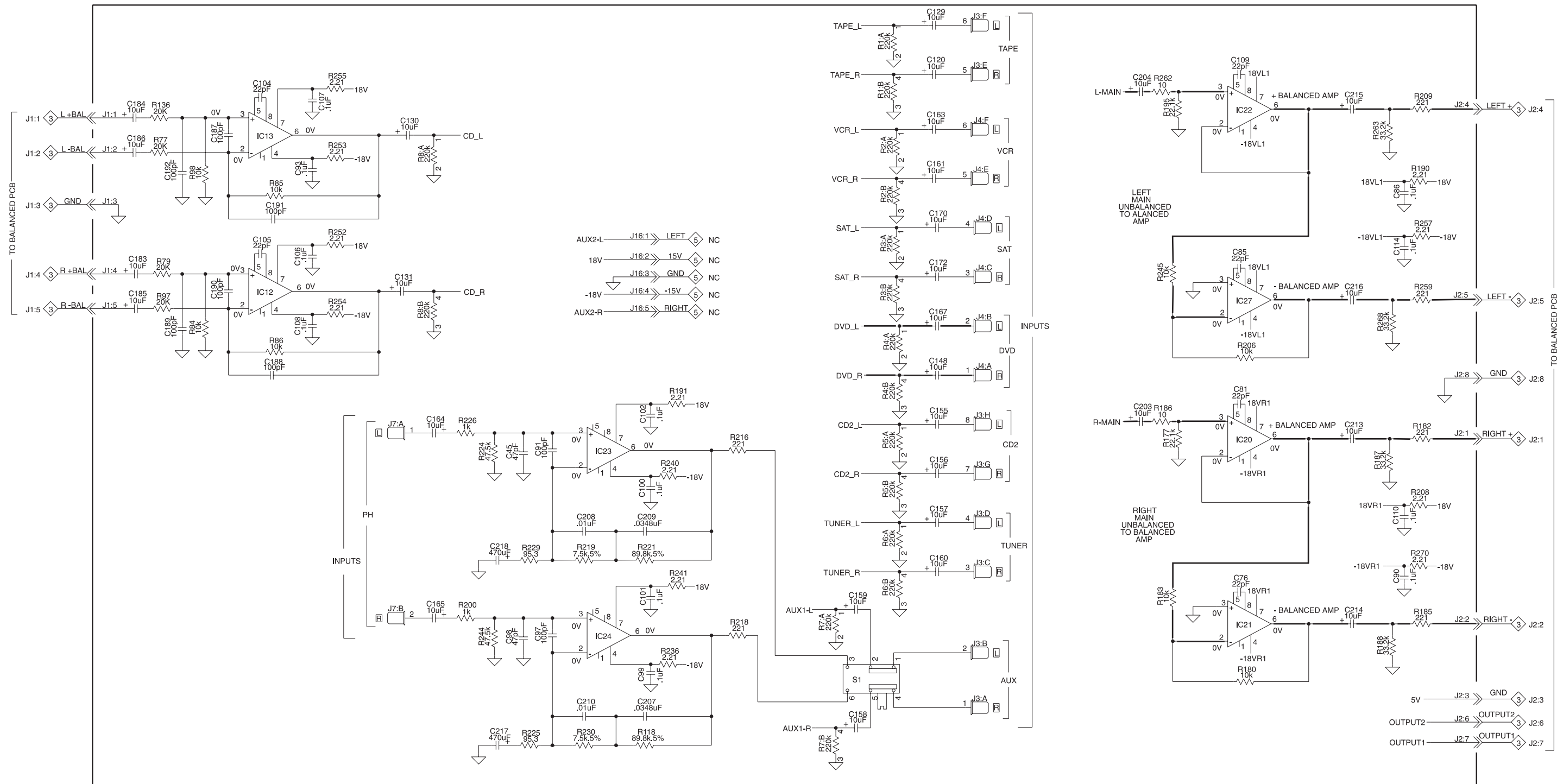


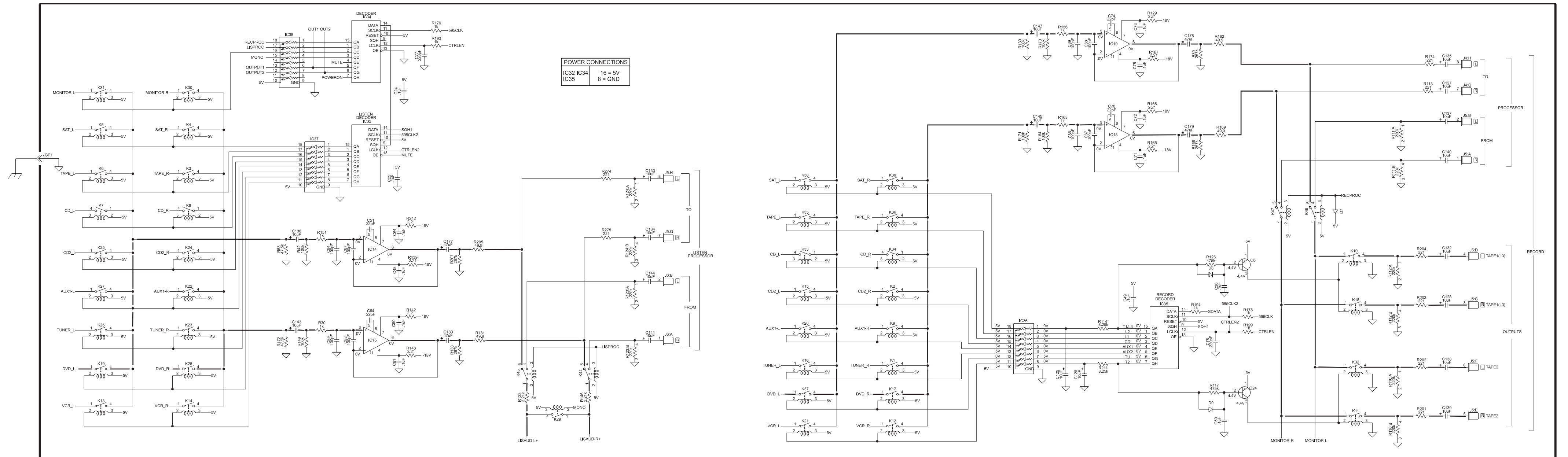
BLOCK DIAGRAM con't

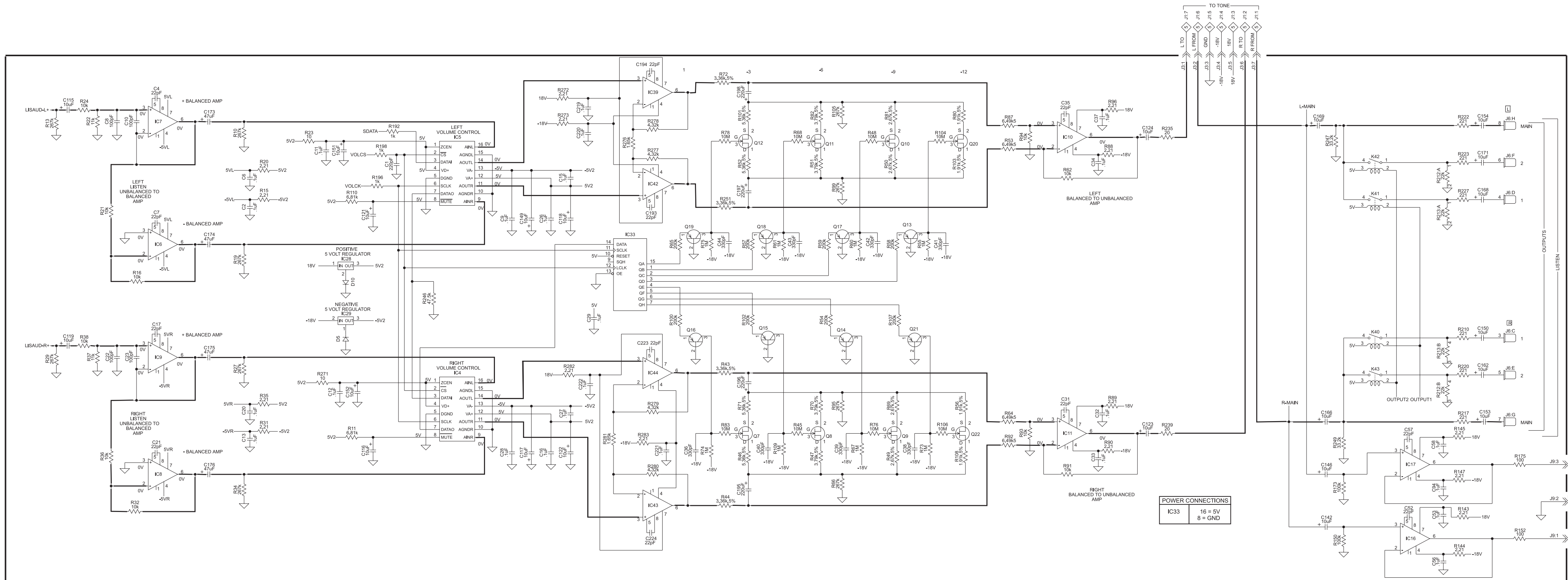


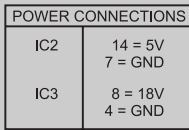
INTERCONNECT





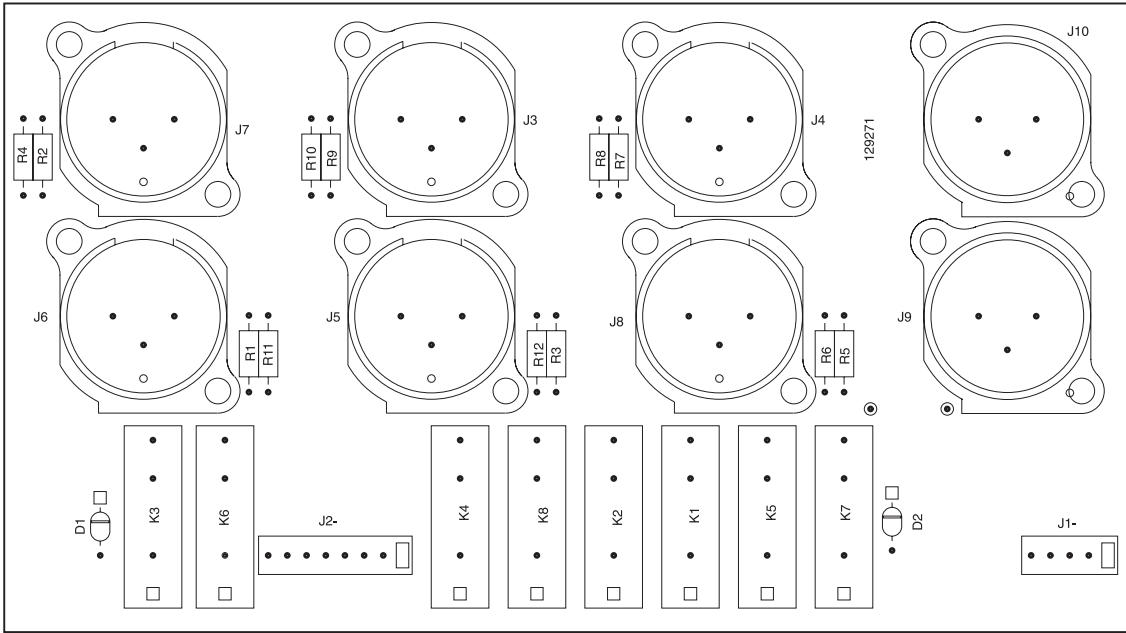
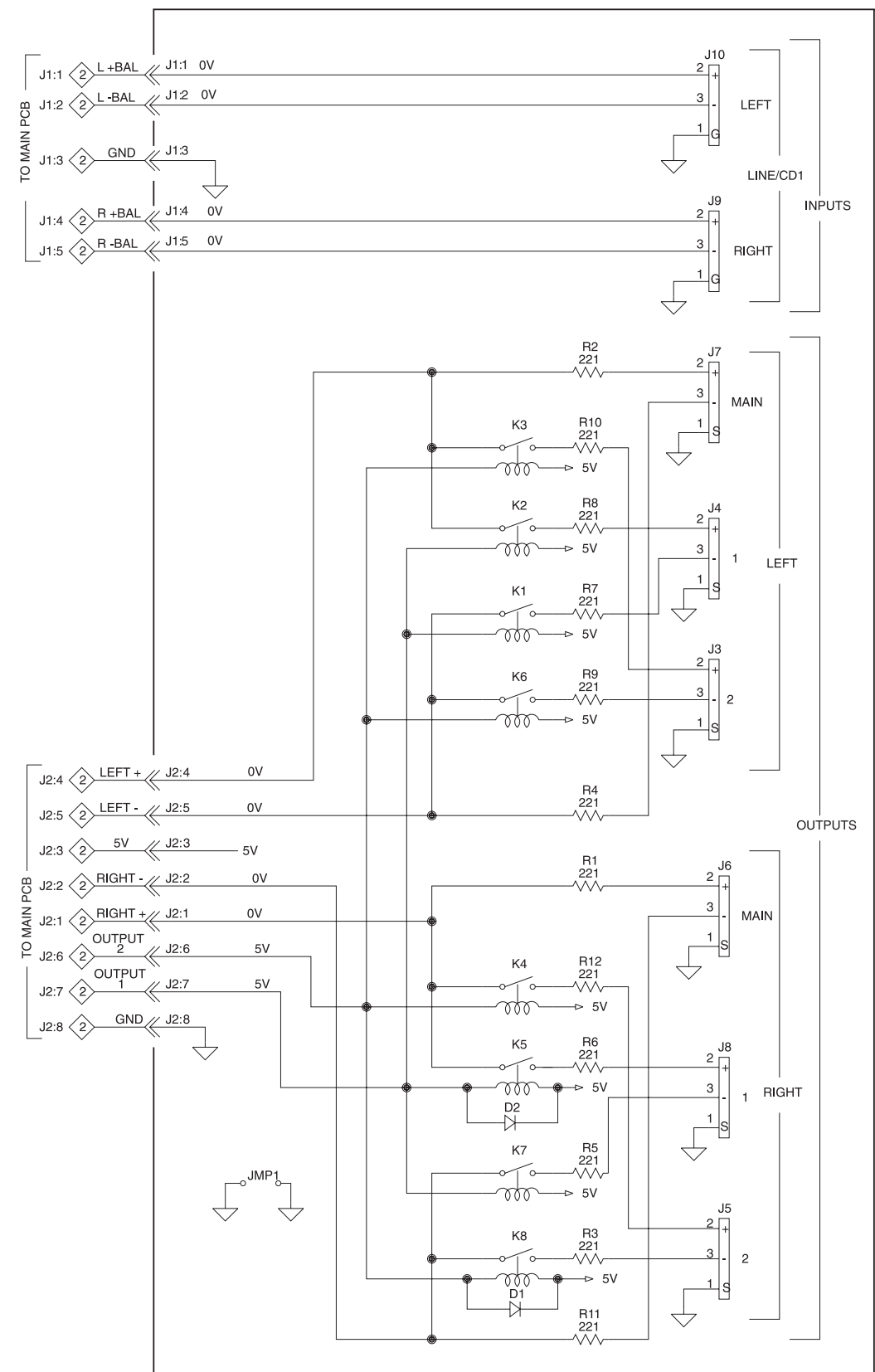






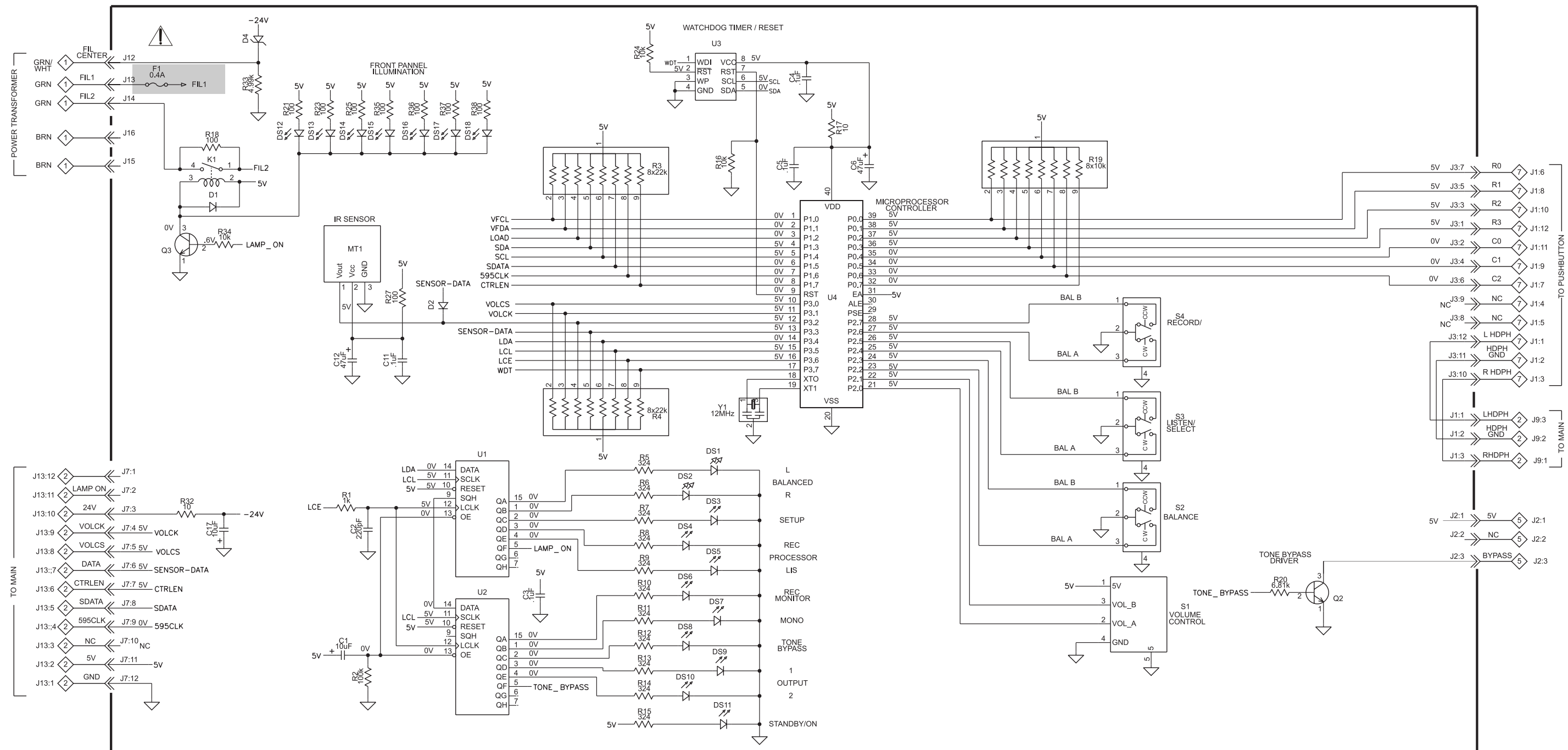
 **WARNING** Parts located in the shaded area have critical characteristics. Use only replacement parts recommended by the manufacturer.

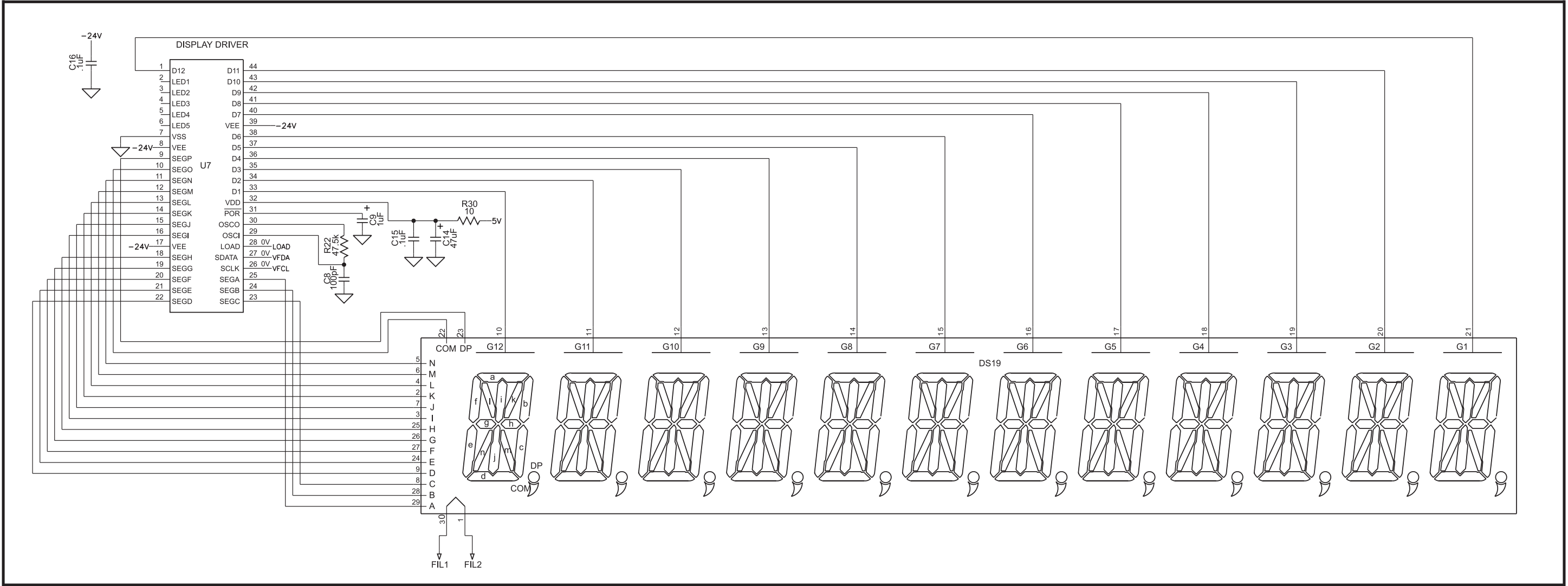




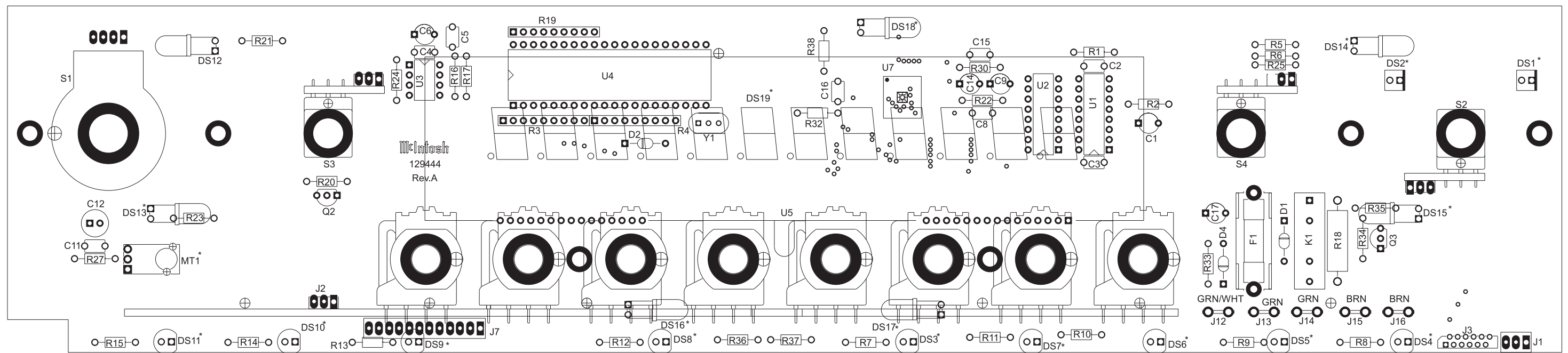
DISPLAY 049783 SH 1 OF 2

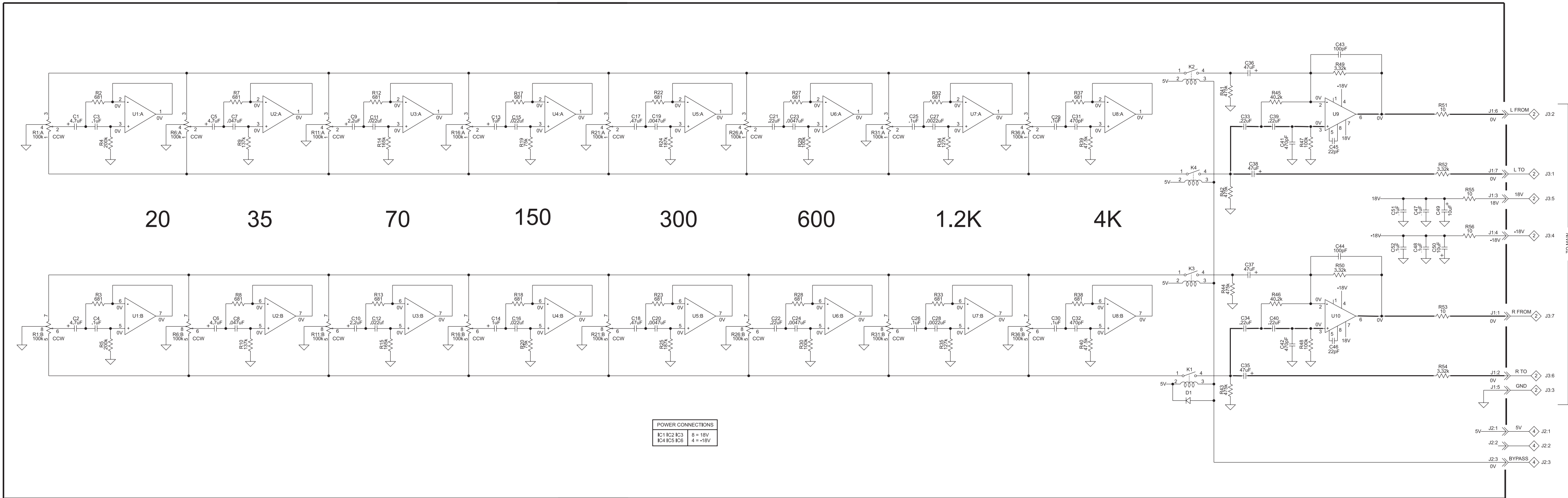
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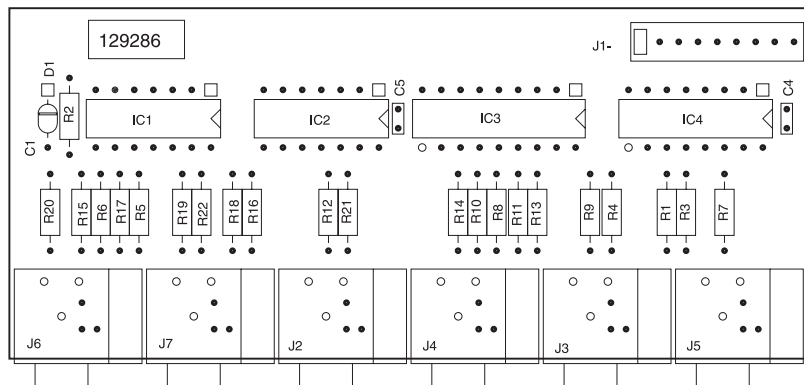


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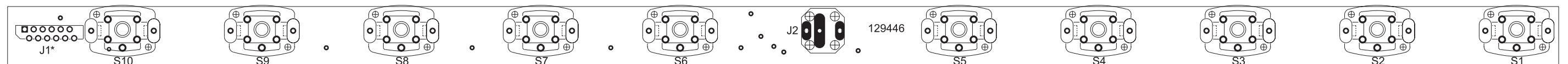
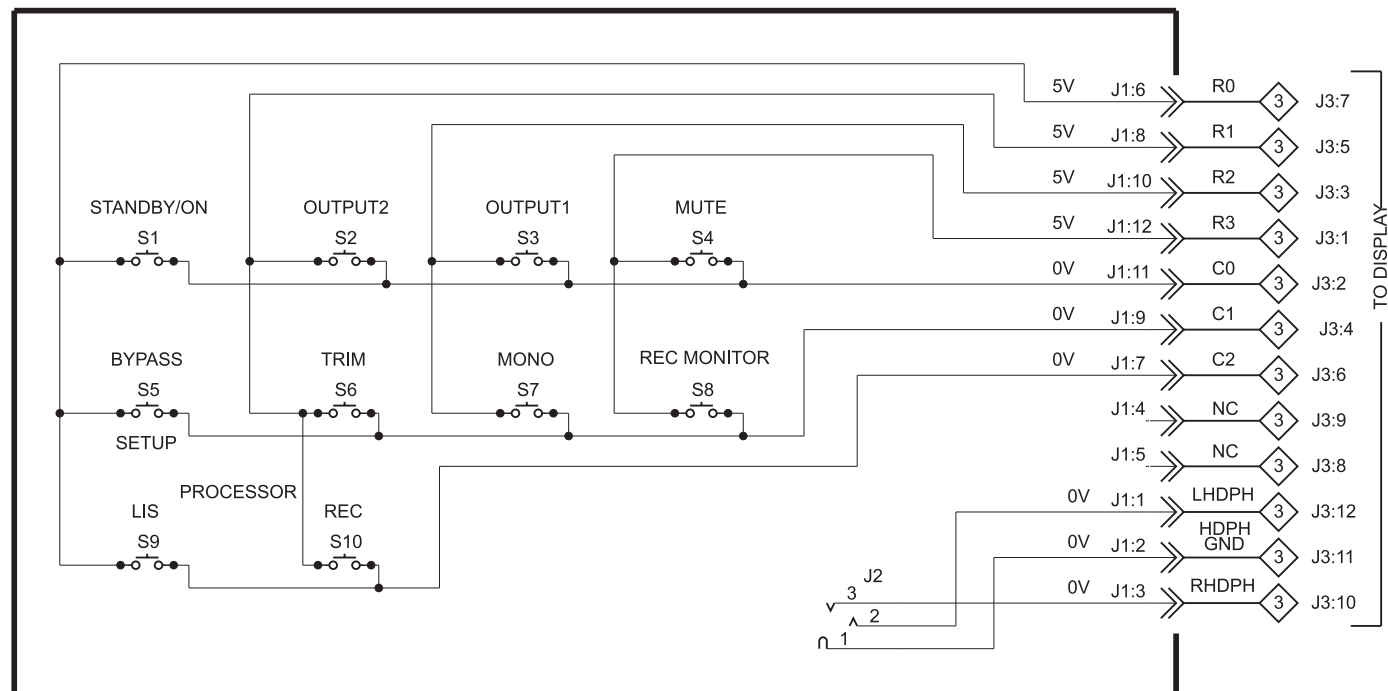




6 DATA 049200



7 PUSHBUTTON 049785



PARTS LIST

Ref No.	Description	Part No.
① INTERCONNECT		
S1	SWITCH	17102600
T1	POWER TRANSFORMER	04952700
② 049784 MAIN PCB		
C1 C77 C78	220PF 5% 100V NPO	06127300
C2 C6 C9 C11 C12 C13 C15 C16 C20	MONO CAP 0.1MF 20% 50V	06127700
C4 C7 C17 C21 C31 C35 C51 C52 C57	22PF 10% 100V CAPACITOR	06128200
C8 C10 C22 C23 C66 C67 C68 C69	MONO CAP: 100PF, 5%, 100V, NPO	06127500
C24 C25 C26 C27 C28 C29 C30 C32	MONO CAP 0.1MF 20% 50V	06127700
C33 C34 C37 C46 C48 C49 C50	MONO CAP 0.1MF 20% 50V	06127700
C36 C38 C39 C40 C41 C42 C43 C44	CAP MONO 330PF CAP	06128400
C45 C98	CAP MC 47PF 100V +/-5% NPO	06128000
C53 C54 C55 C56 C58 C59 C60 C61	MONO CAP 0.1MF 20% 50V	06127700
C62 C63 C65 C71 C72 C73 C75 C86	MONO CAP 0.1MF 20% 50V	06127700
C64 C70 C74 C76 C81 C85 C104 C105	22PF 10% 100V CAPACITOR	06128200
C84 C87 C88 C89 C91 C97 C187 C188	MONO CAP: 100PF, 5%, 100V, NPO	06127500
C90 C93 C94 C99 C100 C101 C102	MONO CAP 0.1MF 20% 50V	06127700
C106 C107 C108 C110 C113 C114	MONO CAP 0.1MF 20% 50V	06127700
C109 C193 C194 C223 C224	22PF 10% 100V CAPACITOR	06128200
C111 C112	MON CER 0.001MF 100V NPO	06126200
C115 C116 C117 C118 C119 C121	ELECT CAP 10MF, 50V	06644500
C120 C127 C128 C129 C132 C133	CAP ELECT 10UF 16V (4X5 CASE)	06638200
C122 C123 C124 C125 C126 C130	ELECT CAP 10MF, 50V	06644500
C131 C136 C142 C143 C145 C146	ELECT CAP 10MF, 50V	06644500
C134 C135 C137 C138 C139 C140	CAP ELECT 10UF 16V (4X5 CASE)	06638200
C141 C144 C148 C150 C153 C154	CAP ELECT 10UF 16V (4X5 CASE)	06638200
C147 C149 C151 C152 C166 C169	ELECT CAP 10MF, 50V	06644500
C155 C156 C157 C158 C159 C160	CAP ELECT 10UF 16V (4X5 CASE)	06638200
C161 C162 C163 C164 C165 C167	CAP ELECT 10UF 16V (4X5 CASE)	06638200
C168 C170 C171 C172	CAP ELECT 10UF 16V (4X5 CASE)	06638200
C173 C174 C175 C176 C177 C178	CAP ELECT 47UF 16V	06621500
C179 C180	CAP ELECT 47UF 16V	06621500
C183 C184 C185 C186 C200 C201	ELECT CAP 10MF, 50V	06644500
C189 C190 C191 C192	MONO CAP: 100PF, 5%, 100V, NPO	06127500
C195 C196 C197 C198 C199	CAP ELECT 220UF 16V	06633000
C202 C203 C204 C213 C214 C215 C216	ELECT CAP 10MF, 50V	06644500
C205 C206	POLYPROPY CAP.047MF 250V	06436400
C207 C209	CAP POLYPROPYLENE .0348UF 1%	06441300
C208 C210	CAP POLYPROPYLENE .01UF 1%	06441400
C211 C212 C229	CAP ELECT 3300UF 35V	06636000
C217 C218	CAP ELECT 470UF 25V	06633400
C219 C220 C221 C222	MONO CAP 0.1MF 20% 50V	06127700
D1 D2 D3 D4 D17 D18 D19 D20	SIL DIODE: 400 PIV @ 1.5A	07003100
D5 D7 D8 D9 D10 D14 D15 D16	SILICON DIODE 1N4148	07004700
F3	FUSE 2A SLO-BLO 5X20	08908900
GP1 GP2	CARD MOUNTING BRACKET	00361100
IC2	IC NAND SCHMIT 2-IN X 4	13319200
IC3	IC OPERATIONAL AMPLIFIER	13318900
IC4 IC5	STEREO DIGITAL VOLUME CONTROL	13333100
IC6 IC7 IC8 IC9 IC10 IC11 IC12 IC13 IC14	NE5534AN OP AMP LOW NOISE	13306700
IC15 IC16 IC17 IC18 IC19 IC20 IC21 IC22	NE5534AN OP AMP LOW NOISE	13306700
IC23 IC24	NE5534AN OP AMP LOW NOISE	13306700
IC27 IC39 IC42 IC43 IC44	NE5534AN OP AMP LOW NOISE	13306700
IC28	IC REGULATOR 5V	13325000
IC29	-5V REGULATOR	13325300
IC30	NEG 24V REGULATOR	13330600
IC31	IC +5V REGULATOR	13310800
IC32 IC33 IC34 IC35	IC SHFT REG SER-PAR	13318600
IC36 IC37 IC38	OCTAL DARLINGTON TRANS ARRAY	13325800
IC40	VOLTAGE REGULATOR 18 VOLT	13304400
IC41	IC REGULATOR 18 VOLT	13304500
J3 J4 J5 J6	PHONO JACK 8P, GOLD PLATED	11745500

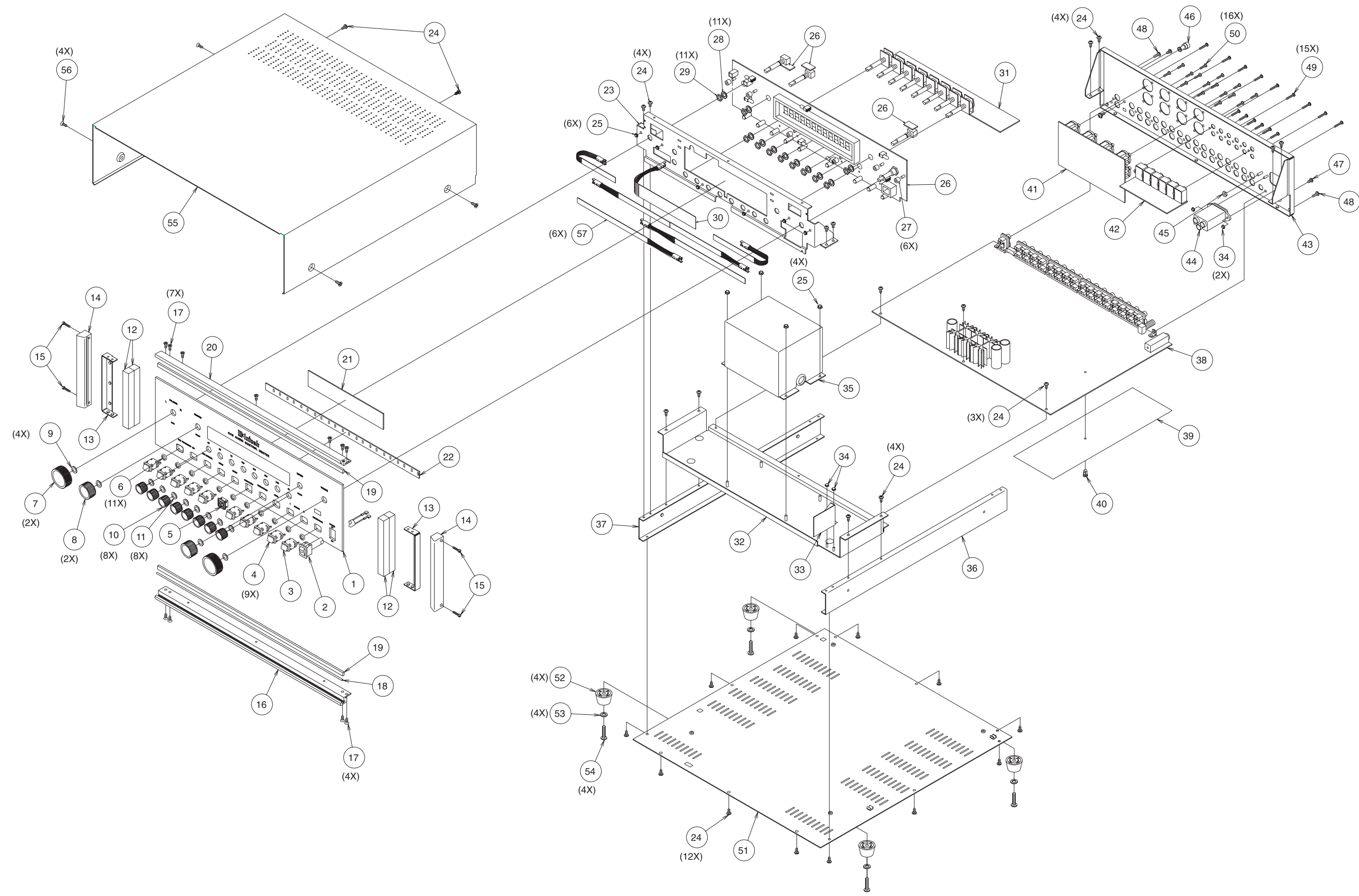
J7	PJ261G PHON JACK, GOLD	11743600
J14 J15 J18 J19 J20 J25 J26 J27 J29 J30	FASTON BLADE W/FEET	11770800
J17	GOLD "F" CONNECTOR	11766100
J31 J32 J33 J34 J35 J36 J37 J38 J40 J42	FASTON BLADE W/FEET	11770800
J43 J44 J45	FASTON BLADE W/FEET	11770800
K1 K2 K3 K4 K5 K6 K7 K8 K9 K10 K11	REED RELAY: FORM 1A,5V, 500 OHMS	08705000
K12 K13 K14 K15 K16 K17 K18 K19 K20	REED RELAY: FORM 1A, 5V, 500 OHMS	08705000
K21 K22 K23 K24 K25 K26 K27 K28 K29	REED RELAY: FORM 1A, 5V, 500 OHMS	08705000
K30 K31 K32 K33 K34 K35 K36 K37 K38	REED RELAY: FORM 1A, 5V, 500 OHMS	08705000
K39 K40 K41 K42 K43	REED RELAY: FORM 1A, 5V, 500 OHMS	08705000
K44 K45 K46 K47	REED RELAY FORM 1C, 5V 125OHM	08705600
Q3	TRANSISTOR NPN MPS4124	13222300
Q6 Q24	TRANSISTOR PNP DARLINGTN	13218200
Q7 Q8 Q9 Q10 Q11 Q12 Q20 Q22	N. CHANNEL FET	13222200
Q13 Q14 Q15 Q16 Q17 Q18 Q19 Q21	TRANSISTOR PNP SI MPS4126	13222400
R1 R2 R3 R4 R5 R6 R7 R8 R111 R112	RES NETWORK, 2X220K, ISO	14426200
R10 R13 R19 R27 R29 R34 R39 R66 R95	METAL FILM RES: 267K 1% 1/4W	14411800
R11 R110	MF 6.81K 1% 1/4W	14429700
R15 R20 R31 R35 R88 R89 R90 R96 R129	RES MF 2.21 OHM 1/4W 1%	14437800
R16 R21 R24 R32 R36 R38 R62 R84 R85	RES MF 10K 1% 1/4W	14405300
R18 R42 R130 R149 R150 R164 R170	RES MF 100K 1% 1/4W	14411300
R22 R37	METAL FILM RES: 11K 1% 1/4W	14410100
R23 R177 R186 R195 R262 R271	METAL FILM RES: 10 OHMS 1% 1/4W	14415700
R30 R121 R151 R156 R163 R178 R179	METAL FILM RES 1K 1% 1/4W	14409000
R43 R44 R72 R251	RES MF 3.36K .5% 1/4W	14440000
R45 R48 R68 R76 R78 R83 R104 R106	METAL FILM RES 10M 1% 1/4W	14426400
R46 R52 R71 R101	METAL FILM RES 5.36K .5% 1/4W	14439900
R47 R51 R70 R82	METAL FILM RES 3.79K .5% 1/4W	14439800
R49 R50 R69 R81	METAL FILM RES 2.67K .5% (SEI)	14439700
R53 R64 R87 R92	RES MF 6.49K .5% 1/4W	14440100
R54 R57 R58 R59 R65 R100 R102 R107	METAL FILM RES 200K 1% 1/4W	14411700
R55 R60 R61 R67 R73 R74 R75 R109 R153	METAL FILM RES 1M 1/4W	14426900
R56 R80 R103 R108	METAL FILM RES 1.91K .5% 1/4W	14439500
R63 R172 R224 R244 R246	RES MF 47.5K 1% 1/4W	14410800
R77 R79 R97 R136	RES MF 20K 1% 1/4W	14410400
R86 R91 R93 R94 R98 R180 R183 R206	RES MF 10K 1% 1/4W	14405300
R99 R105 R138 R168 R207	METAL FILM RES: 267K 1% 1/4W	14411800
R113 R159 R174 R182 R185 R201 R202	RES MF 221 OHMS 1% 1/4W	14417200
R114 R211	METAL FILM RES 8.25K 1% 1/4W	14415300
R116 R123 R124	RES NETWORK, 2X220K, ISO	14426200
R117 R125	RES MF 475K 1% 1/4W	14436400
R118 R221	RES MF 89.8K 1/4W 0.5%	14437700
R128	RES METAL FILM 4.75M 1/4W 1%	14437900
R131 R162 R169 R205	METL FILM RES 49.9 OHM 1/4W 1%	14417500
R133 R146	MF 2.21K 1% 1/4W	14429800
R139 R142 R143 R144 R145 R147 R148	RES MF 2.21 OHM 1/4W 1%	14437800
R152 R175	METAL FILM RES 100 OHM 1% 1/4W	14419600
R154	METAL FILM RES 27.4K 1% 1/4W	14414100
R157	METAL FILM RES: 31.6K 1% 1/4W	14414800
R165 R166 R167 R190 R191 R208 R236	RES MF 2.21 OHM 1/4W 1%	14437800
R171 R173	RES MF 100K 1% 1/4W	14411300
R187 R188 R247 R249 R263 R268	METAL FILM RES: 33K 1% 1/4W	14401500
R192 R193 R194 R196 R198 R199 R200	METAL FILM RES 1K 1% 1/4W	14409000
R203 R204 R209 R210 R216 R217 R218	RES MF 221 OHMS 1% 1/4W	14417200
R212 R213	RES NETWORK ISOLATED 2X22K	14436600
R219 R230	RES MF 7.5K OHM 1/4W 0.5%	14437600
R220 R222 R223 R227 R259 R274 R275	RES MF 221 OHMS 1% 1/4W	14417200
R225 R229	95.3 OHMS 1% 1/4W MF	14422000
R226 R228 R232	METAL FILM RES 1K 1% 1/4W	14409000
R235 R239	METAL FILM RES. 20.0 OHM 1/4W	14417400
R240 R241 R242 R252 R253 R254 R255	RES MF 2.21 OHM 1/4W 1%	14437800
R245	RES MF 10K 1% 1/4W	14405300
R256	METAL FILM RES 22.1K 1% 1/4W	14418700
R257 R270 R272 R273 R282 R283	RES MF 2.21 OHM 1/4W 1%	14437800
R267	METAL FILM RES: 73.2K 1% 1/4W	14413600
R276 R281	METAL FILM RES 1.65K 1% 1/4W	14409300
R277 R278 R279 R280	MF 4.32K 1% 1/4W	14430300
S1	SLIDE SWITCH	14805900

PARTS LIST con't

Ref No.	Description	Part No.
3 049189 BALANCED PCB		
D1 D2	SILICON DIODE 1N4148 T&R	07004700
J1-	FLEXSTRIP 5 PIN 5.75	17124100
J2-	CABLE FLEXIBLE 8-PIN 5-IN	17093000
J3 J4 J5 J6 J7 J8	XLR RECEPTACLE MALE	11766900
J9 J10	XLR RECEPTACLE FEMALE	11766800
K1 K2 K3 K4 K5 K6 K7 K8	REED RELAY: FORM 1A,5V, 500 OHMS	08705000
R1 R2 R3 R4 R5 R6 R7 R8 R9	RES MF 221 OHMS 1% 1/4W	14417200
R10 R11 R12	RES MF 221 OHMS 1% 1/4W	14417200
4 049783 DISPLAY PCB		
C1 C9 C17	CAP ELECT 10UF 50V	06644500
C2	CAP MONO 220PF 200V 10% NPO	06130100
C3 C4 C5 C11 C15 C16	CAP MONO .1UF 50V 20% Z5U	06130500
C6 C14	CAP ELECT 47UF 35V	06644600
C8	CAP MONO 100PF 100V 10% NPO	06130000
C9	CAP ELECT 1UF 50V	06651000
C12	CAP ELECT 47UF 16V 6.3X5 CASE	06638000
D1 D2	DIODE SILICON	07004700
D4	DIODE ZENER 6.2V 5% 500MW	07008500
DS1 DS2	LED SQUARE RED	05810900
DS3 DS4 DS5 DS6 DS7 DS8 DS9 DS10	LED LAMP RED	07009300
DS11	LED LAMP RED	07009300
DS12 DS13 DS14 DS15 DS16 DS17 DS18	LED GRN 5MM HI-INTENSITY	05816500
DS19	DISPLAY 12 CHARACTER	05815000
F1	FUSE T 0.4A 250V	08910800
F1	HOLDER FUSE 5X20MM PCB MOUNT	17815900
J1	CABLE FLEXSTRIP 3 PIN 7.25IN	17124200
J1- J1- J1-	CONN 3-PIN RIGHT ANGLE	11767000
J3	CONN 12 PIN FFC	11772000
J7	CABLE FLEXSTRIP 12 PIN 7.25IN	17123700
J12 J13 J14 J15 J16	BLADE FASTON W/FEET	11770800
K1	RELAY REED FORM 1A 5V 500 OHMS	08705000
MT1	SENSOR IR 38KHZ	12104600
Q2 Q3	TRANSISTOR NPN 2K/REEL	13217100
R1	RES MF 1K 1% 1/4W	14409000
R2	RES MF 100K 1% 1/4W	14411300
R3 R4	RES NETWORK 9X-1-223	14423800
R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R15	RES MF 324 OHM 1% 1/4W	14433800
R16 R24	RES MF 10K 1% 1/4W	14405300
R17 R30 R32	RES MF 10 OHM 1% 1/4W	14415700
R18	RES WW 100 OHM 10% 2W BWH	13913400
R19	RES NET 10K X8	14425300
R20	RES MF 6.81K 1% 1/4W	14429700
R21 R23 R25 R27 R35 R36 R37 R38	RES MF 100 OHM 1% 1/4W	14419600
R22	RES MF 47.5K 1% 1/4W	14410800
R33	RES MF 4.99K 1% 1/4W	14409800
R34	RES MF 2.21K 1% 1/4W	14429800
S1	ENCODER OPTICAL ROTARY	14624600
S2 S3 S4	SWITCH ROT PULSE	14624900
U1 U2	IC SFT REG SER-PAR	13318600
U1 U2	SOCKET IC DIP-16 PIN DUAL	17809100
U3	IC SUPERVISOR WITH EEPROM	13346800
U3	SOCKET IC 8-POS	17809600
U4	IC PROGRAMMED C46 V1.00	13347500
U4	SOCKET IC 40-PIN	17813300
U7	IC DRVR VFD 12CHAR X 16SEG QFP	13344600
Y1	RESONATOR CERAMIC 12.0MHZ W/CAP	18005900
5 049786 TONE PCB		
C1 C2 C5 C6	CAP ELECT 4.7UF 50V	06651200
C3 C4 C25 C26 C29 C30	CAP MPF 0.1UF 5% 63VDC	06432500

C7 C8	CAP MPF 0.047UF 5% 63VDC	06432000
C9 C10	CAP ELECT 2.2UF 50V	06651100
C11 C12 C15 C16	CAP MPF 0.022UF 5% 63VDC	06431600
C13 C14	CAP ELECT 1UF 50V	06651000
C17 C18	CAP MPF 0.47UF 5% 50/63VDC	06433300
C19 C20 C23 C24	CAP MPF 0.0047UF 5% 63VDC	06430800
C21 C22 C33 C34 C39 C40	CAP MPF 0.22UF 5% 63VDC	06432900
C27 C28	CAP MPF 0.0022UF 5% 63VDC	06430400
C31 C32 C41 C42	CAP PF 470PF 5% 160VDC	06429600
C35 C36 C37 C38	CAP ELECT 47UF 35V	06644600
C43 C44	CAP MONO 100PF 100V 10% NPO	06130000
C45 C46	CAP MONO 22PF 200V 10% NPO	06129800
C47 C48 C51 C52	CAP MONO .1UF 50V 20% Z5U	06130500
C49 C50	CAP ELECT 10UF 50V	06644500
D1	DIODE SILICON	07004700
J1	CABLE FLEXSTRIP 7PIN 10IN	17144300
J2	CONN 3-PIN RIGHT ANGLE	11767000
K1 K2 K3 K4	RELAY REED FORM 1A 5V 500 OHMS	08705000
R1 R6 R11 R16 R21 R26 R31 R36	POT EQUAL	13445700
R2 R3 R7 R8 R12 R13 R17 R18 R22 R23	RES MF 681 OHM 1% 1/4W	14419500
R4 R5	RES MF 200K 1% 1/4W	14411700
R9 R10	RES MF 137K 1/4W	14411500
R14 R15	RES MF 165K 1% 1/4W	14411600
R19 R20	RES MF 75K 1% 1/4W	14415600
R24 R25	RES MF 187K 1% 1/4W	14440600
R27 R28 R32 R33 R37 R38	RES MF 681 OHM 1% 1/4W	14419500
R29 R30 R47 R48	RES MF 100K 1% 1/4W	14411300
R34 R35	RES MF 127K 1% 1/4W	14440500
R39 R40	RES MF 47.5K 1% 1/4W	14410800
R41 R42 R43 R44	RES MF 475K 1% 1/4W	14436400
R45 R46	RES MF 40.2K 1% 1/4W	14410700
R49 R50 R52 R54	RES MF 3.32K 1% 1/4W	14409500
R51 R53 R55 R56	RES MF 10 OHM 1% 1/4W	14415700
U1 U2 U3 U4 U5 U6 U7 U8	IC OP AMP 4558H	13302800
U9 U10	NE5534AN OP AMP LOW NOISE	13306700
 049200 DATA PCB		
C4 C5	MONO CAP 0.1MF 20% 50V	06127700
D1	SILICON DIODE 1N4148 T&R	07004700
IC1 IC2	IC AND 2 INPUT X 4	13317500
IC3	LB1720 8 LN DRIVER ARRAY	13318000
IC4	IC SHFT REG SER-PAR	13318600
J1-	FLEXSTRIP 9 PIN 5"	17123900
J2 J3 J4 J5 J6 J7	HEADPHONE JACK DUAL BLACK 1/8"	11754900
R1 R3 R7	METAL FILM RES 1K 1% 1/4W	14409000
R2	RES METAL FILM 4.75M 1/4W 1%	14437900
R4 R8 R9 R10 R11 R12 R13 R14	METAL FILM RES 100 OHM 1% 1/4W	14419600
R5 R6 R15 R16 R17 R18 R19 R22	RESISTOR MF 182 OHM 1/4W 1%	14427300
R20 R21	METAL FILM RES 100 OHM 1% 1/4W	14419600
 049785 PUSHBUTTON PCB		
J1	CONN 12 PIN FFC	11772000
J2	JACK PHONO 1/8 STEREO	11746200
S1 S2 S3 S4 S5 S6 S7 S8 S9 S10	SWITCH TACT	15005800

EXPLODED VIEW



EXPLODED VIEW PARTS LIST

Ref No.	Part No.	Description
1	016484	GLASS
2	171026	CABL ASSY PWR SW
3	017531	PUSHBUTTON ASSY RED
4	017517	PUSHBUTTON ASSY BLK
5	017736	BEZEL
6	078033	O-RING
7	090265	KNOB 34mm NO INDEX
8	090259	KNOB 25.5mm NO INDEX
9	090269	KNOB 16.5mm INDEX
10	104017	WASHER FELT BLK 3/4 X 1/4 X 1/16
11	104073	WASHER FELT 1/4 X 5/8 MPI-4
12	094360	TAPE FOAM 1/2 X 1/2
13	004946	BRACKET EXTRUSION
14	018611	ENDCAP 5"
15	101042	SCREW TS 4-40 X 1/2 SLOT FILL
16	018605	EXTRUSION BOTTOM
17	100149	SCREW MACH 8-32 X 1/4 FL U/H ST
18	098113	CORD DIAL .027 BLACK BRAID SILK
19	094016	TAPE FOAM 1/4 X 1/8
20	018587	EXTRUSION TOP
21	092439	FILTER FRONT PANEL
22	049785	ASSY PCB PUSHBUTTON
23	005276	SUBPANEL
24	101054	SCREW TAPTITE 6-322 X 1/4 PH PN BLK
25	102045	NUT KEP 6-22 SPECIAL
26	049783	ASSY PCB DISPLAY
27	021030	SPACER 6 X 1/4
28	110004	NUT CONTROL M7 X .75 HEX
29	104013	WASHER LOCK 5/16 X .435 X .002
30	017901	TITLE/PUSHBUTTON BACKLIGHT
31	049786	ASSY PCB TONE
32	004945	CHASSIS TRAY
33	005273	PCB SHIELD
34	102001	NUT KEP 4-40 CADMIUM PLATE
35	049527	TRANSFORMER POT
36	004943	SIDE PANEL RIGHT
37	004942	SIDE PANEL LEFT
38	049784	ASSY PCB MAIN
39	017775	SHIELD PCB MAIN
40	114072	RIVET NYLON POP-IN
41	049189	ASSY PCB BALANCED
42	049200	ASSY PCB DATA
43	005277	REAR PANEL
44	117711	RECEPTACLE AC W/LINE FILTER
45	102020	NUT MACH 6-32 SELF-LOCK
46	084112	POST GROUND GOLD
47	100250	SCREW MACH SEMS 6-32 X 1/4 PH PN
48	101109	SCREW TAP 6-32 X 5/16 PH PN TYPE A
49	101114	SCREW SM 4-24 X 1/2 PH PN TYPE A
50	101197	SCREW HI-LO 4-24 X 3/8 PH RD BLK
51	004860	BOTTOM COVER
52	017218	FOOT PLASTIC BLACK
53	104083	WASHER #10 PLATED
54	100159	SCREW MACH 10-32 X 1/4 PH PAN BLK
55	004940	COVER TOP
56	101078	SCREW TAP 8-32 X 5/16 PH PN BLK
57	017907	LOGO/PUSHBUTTON BACKLIGHT

NOTES

REPACKING INSTRUCTION

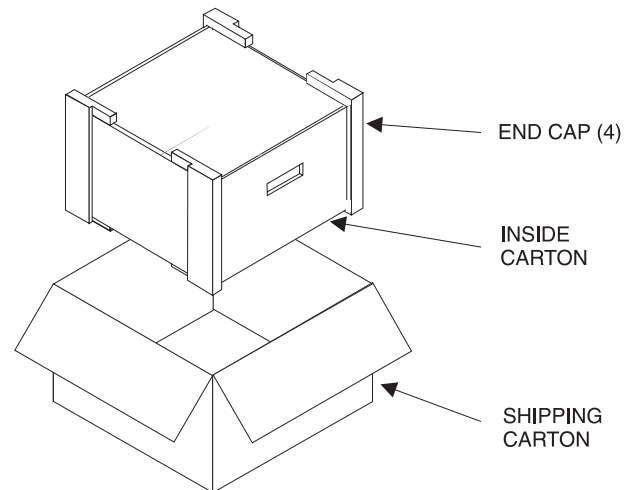
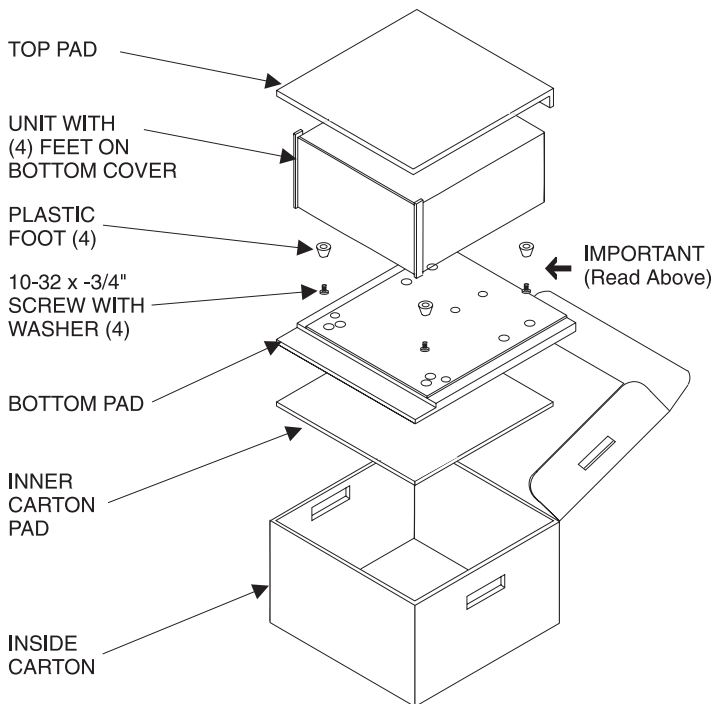
In the event it is necessary to repack the unit for shipment, the unit must be packed exactly as shown below.

IMPORTANT - The four plastic feet must be attached to the bottom of the unit so they will locate in the four holes of the bottom pad. Failure to do this will result in shipping damage.

If a shipping carton or any of the interior parts is needed, please call or write the Customer Service Department of McIntosh Laboratory. Order parts from the accompanying list by part number.

Use the original shipping carton and interior parts only if they are in good serviceable condition.

Qty.	Part No.	Description
1	033838	Shipping carton only
4	033837	Foam end cap
1	033836	Inside carton only
1	033725	Top pad
1	034008/ 034194	Bottom pad
1	034037	Inner carton pad
4	017218	Plastic foot
4	100159	#10-32 x 3/4" Machine screw
4	104083	#10 x 7/16" Flat washer
1	049259	Shipping carton complete with all the above parts.



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AUDIO CONTROL CENTER

SERVICE MANUAL



The continuous improvement of its products is the policy of McIntosh Laboratory Incorporated, who reserve the right to improve design without notice. Because of the constant upgrading of McIntosh products' circuitry and components, the Company cannot insure, and does not warrant, the accuracy of the within schematic material, which is intended for information only.

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