



C1000P

PREAMPLIFIER



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SERVICE MANUAL

PERFORMANCE SPECIFICATIONS

Power Requirements

100 Volts, 50/60Hz at 120 watts
110 Volts, 50/60Hz at 120 watts
120 Volts, 50/60Hz at 120 watts
220 Volts, 50/60Hz at 120 watts
230 Volts, 50/60Hz at 120 watts
240 Volts, 50/60Hz at 120 watts

Note: Refer to the rear panel of the C1000 Controller for the correct voltage.

General Specifications

Overall Dimensions

C1000C:

Width is 17-1/2 inches (44.45cm)
Height is 6 inches (15.24cm) including feet
Depth is 24 inches (61.0cm) including the Front Panel, Knobs and Interconnect Cables¹

C1000P:

Width is 17-1/2 inches (44.45cm)
Height is 6 inches (15.24cm) including feet
Depth is 24 inches (61.0cm) including the Front Panel and Interconnect Cables¹

C1000T:

Width is 17-1/2 inches (44.45cm)
Height is 6 inches (15.24cm) including feet
Depth is 24 inches (61.0cm) including the Front Panel and Interconnect Cables¹

Weight

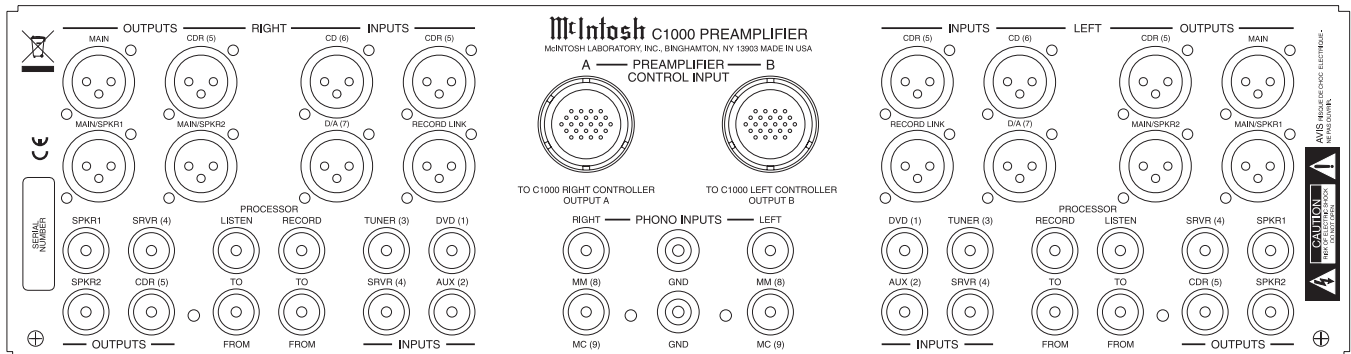
C1000C - 39.0 pounds (17.7 kg) net
61.4 pounds (27.9 kg) in shipping carton
C1000P - 33.0 pounds (15.0 kg) net
53.6 pounds (24.3 kg) in shipping carton
C1000T - 34.0 pounds (15.4 kg) net
54.6 pounds (24.8 kg) in shipping carton

¹ Interconnect Cables are supplied with the C1000 Preamplifier and C1000 Tube Preamplifier. They are used to connect Preamplifier(s) to the C1000 Controller.

NOTES

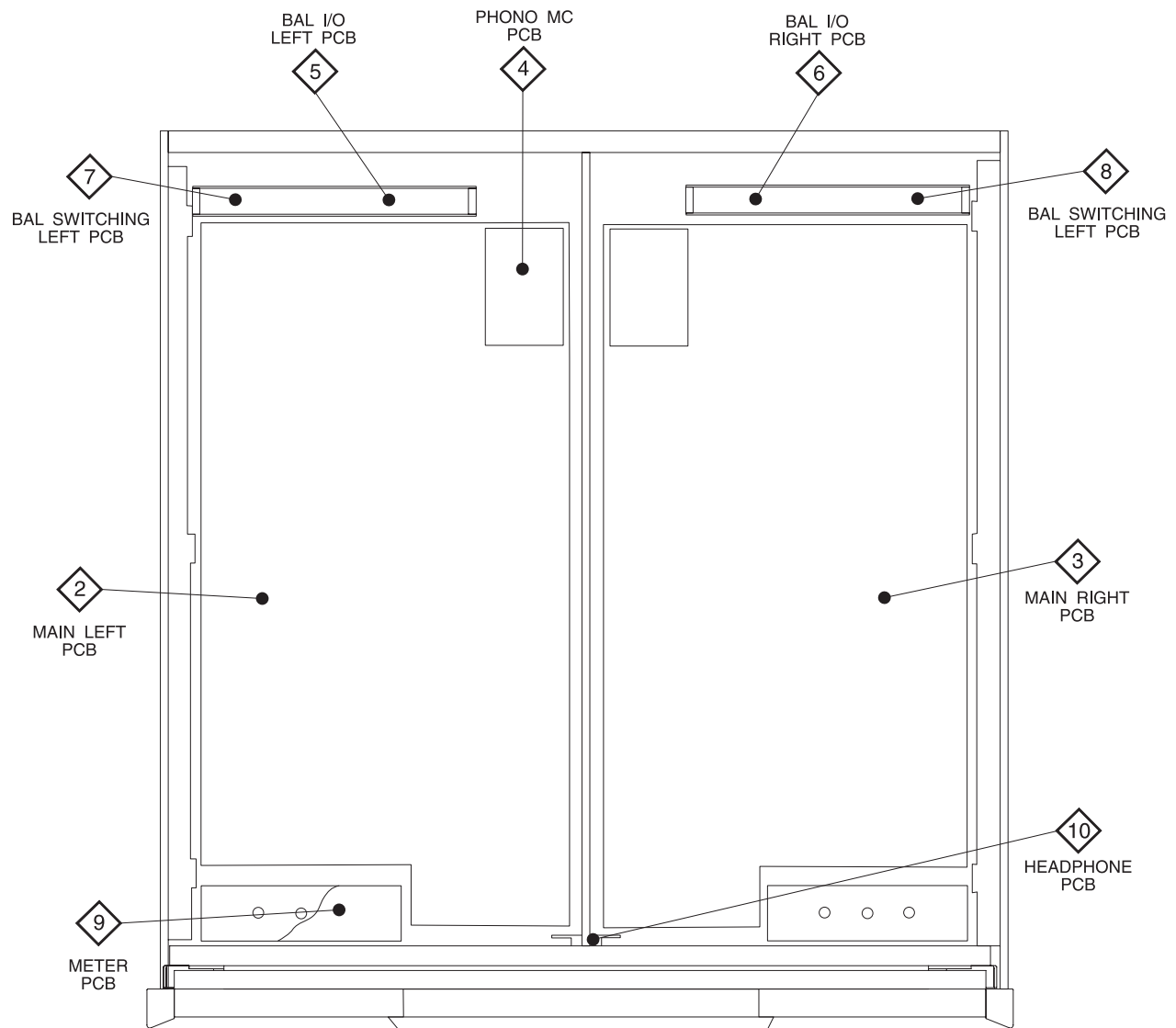
1. The heavy notes on the schematic denote the primary signal path.
2. Unless otherwise noted, all voltages indicated on the schematics are measured under the following conditions:
 - a. AC input at 120 volts, 50/60Hz.
 - b. All voltages are +/-10% with respect to ground. A high impedance (10 megaohm) 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.
6. Use McIntosh Remote Control Model HR052 with the MVP861.

REAR PANEL

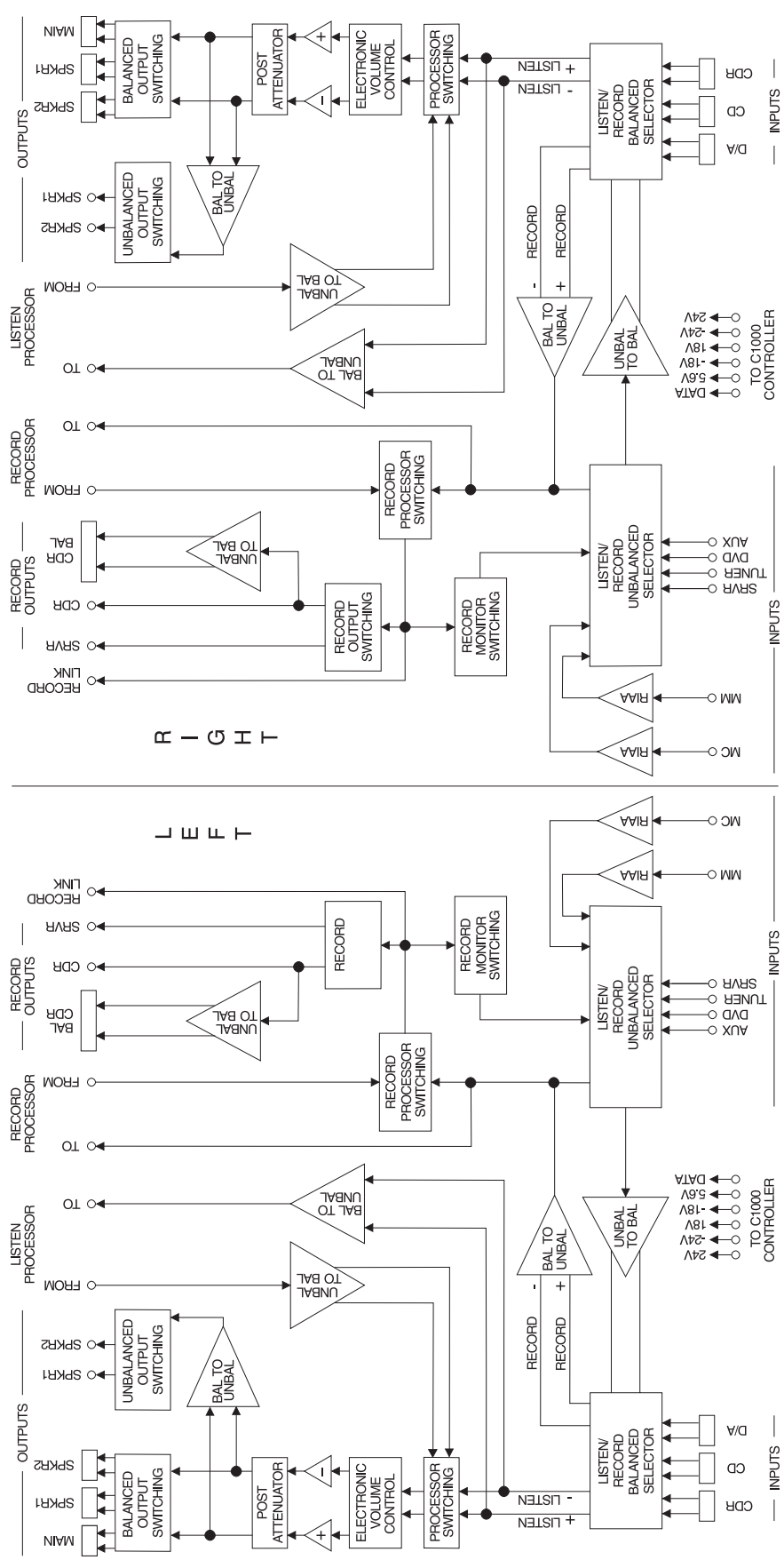


SECTION LOCATIONS

TOP VIEW WITH COVER REMOVED



BLOCK DIAGRAM

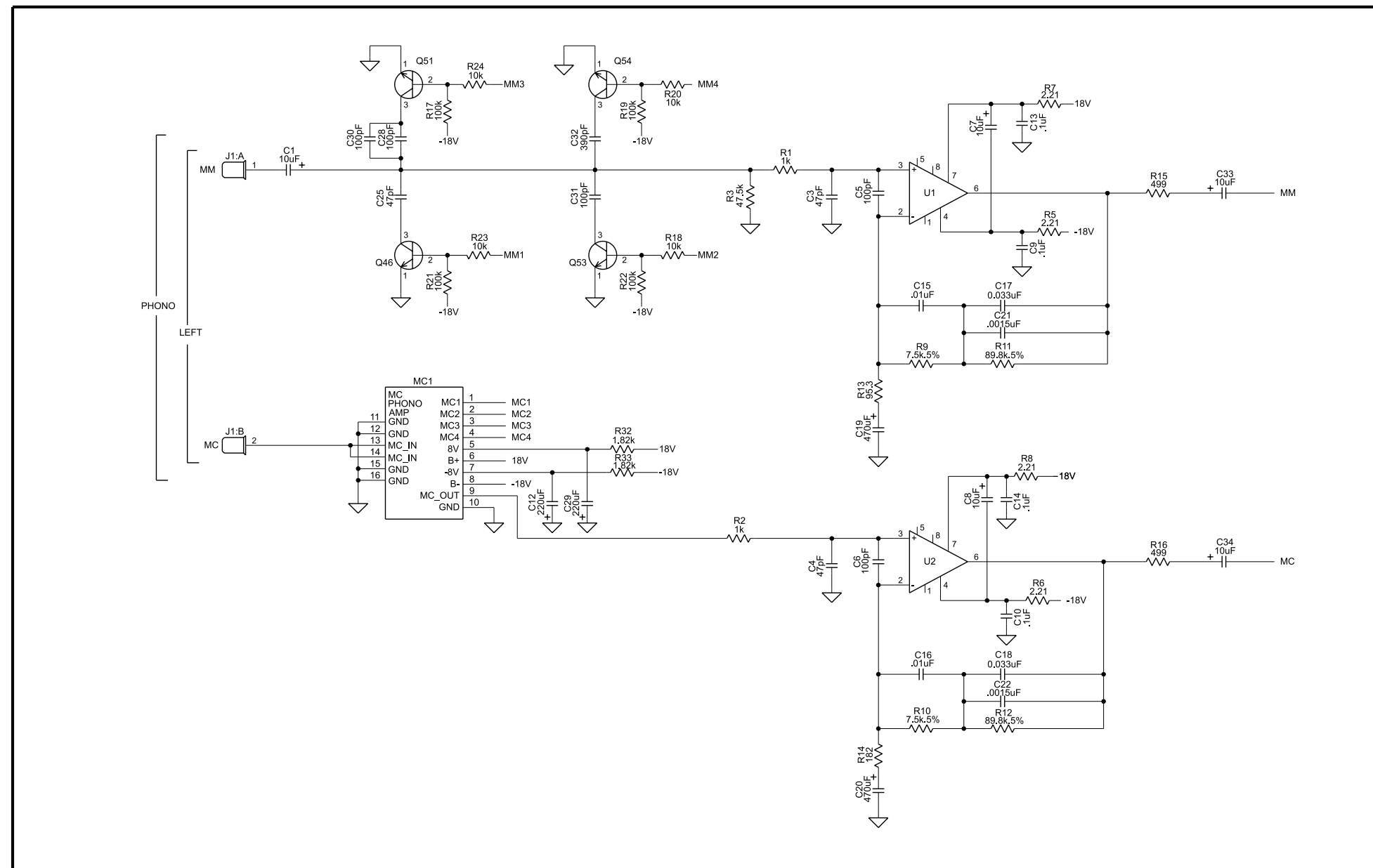


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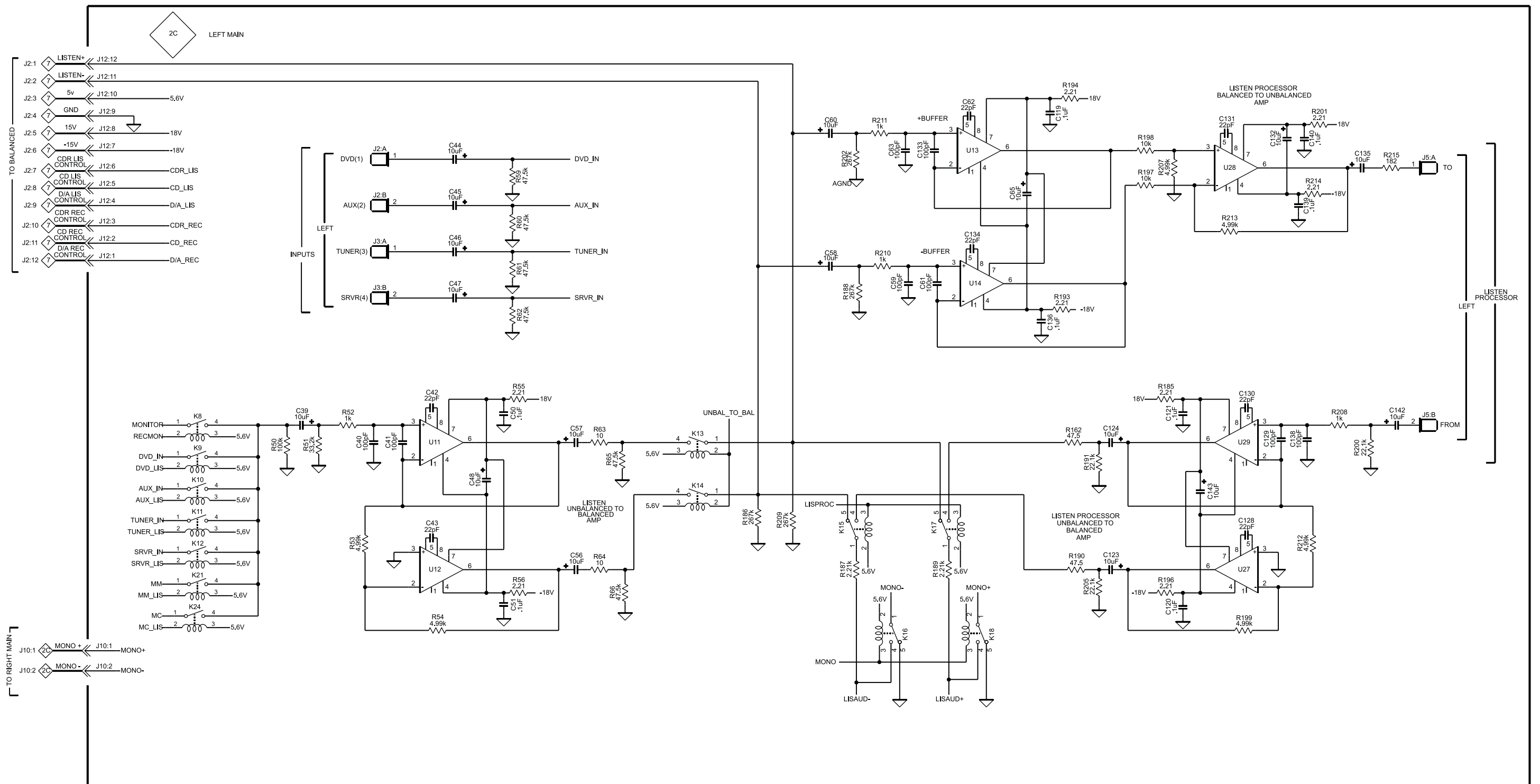


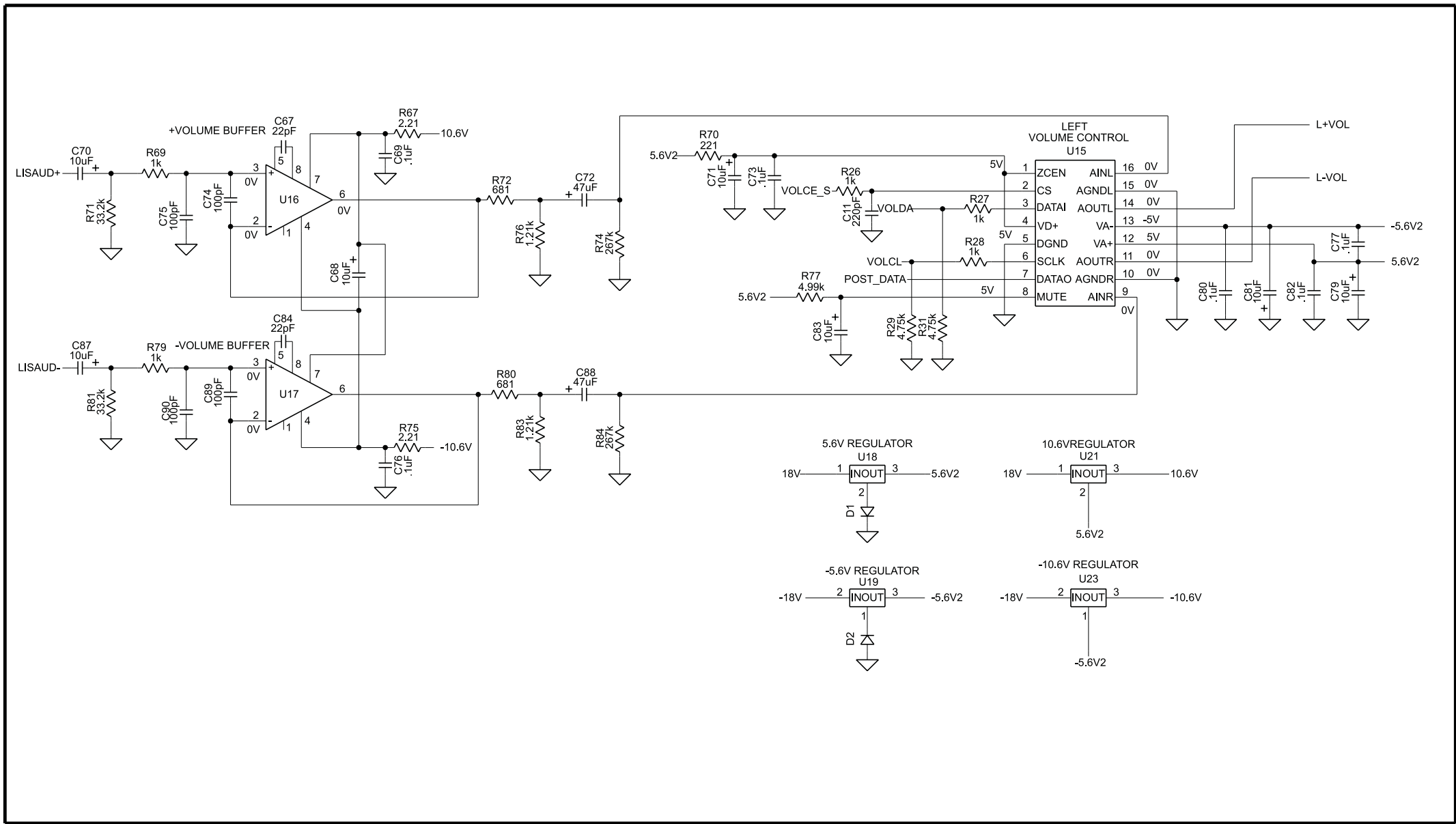
2 MAIN LEFT 129531 SH 1 OF 6

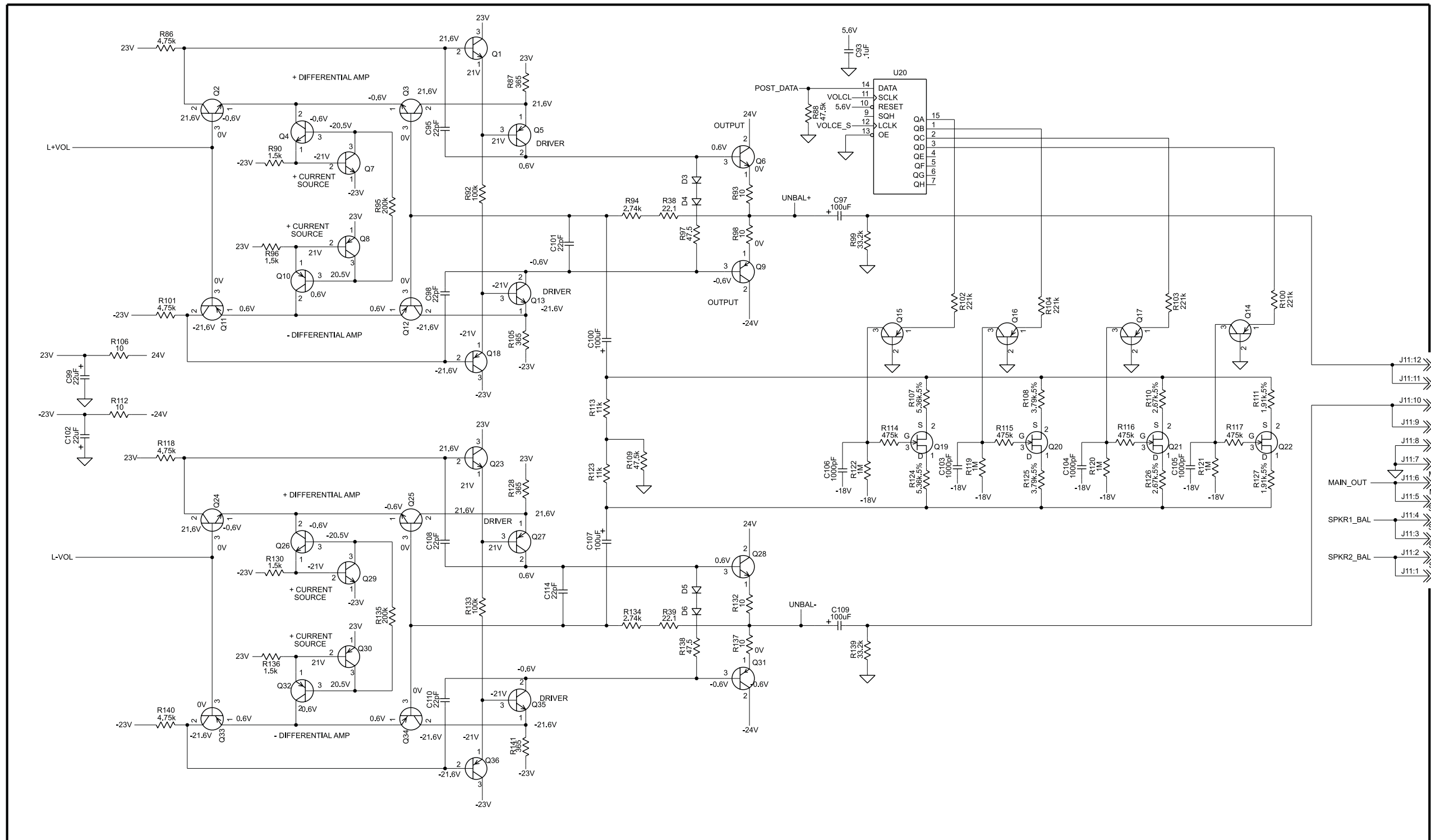




2 MAIN LEFT 129531 SH 3 OF 6

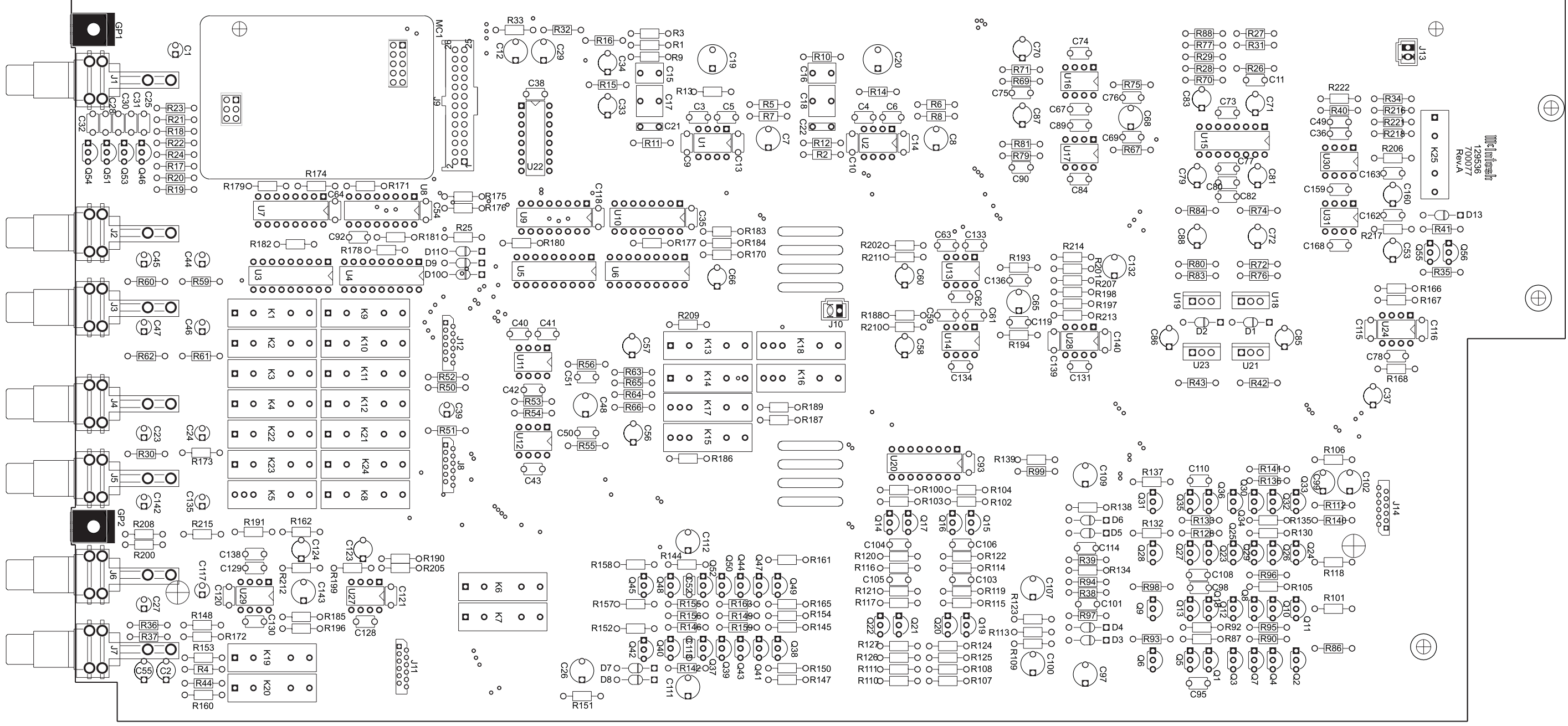


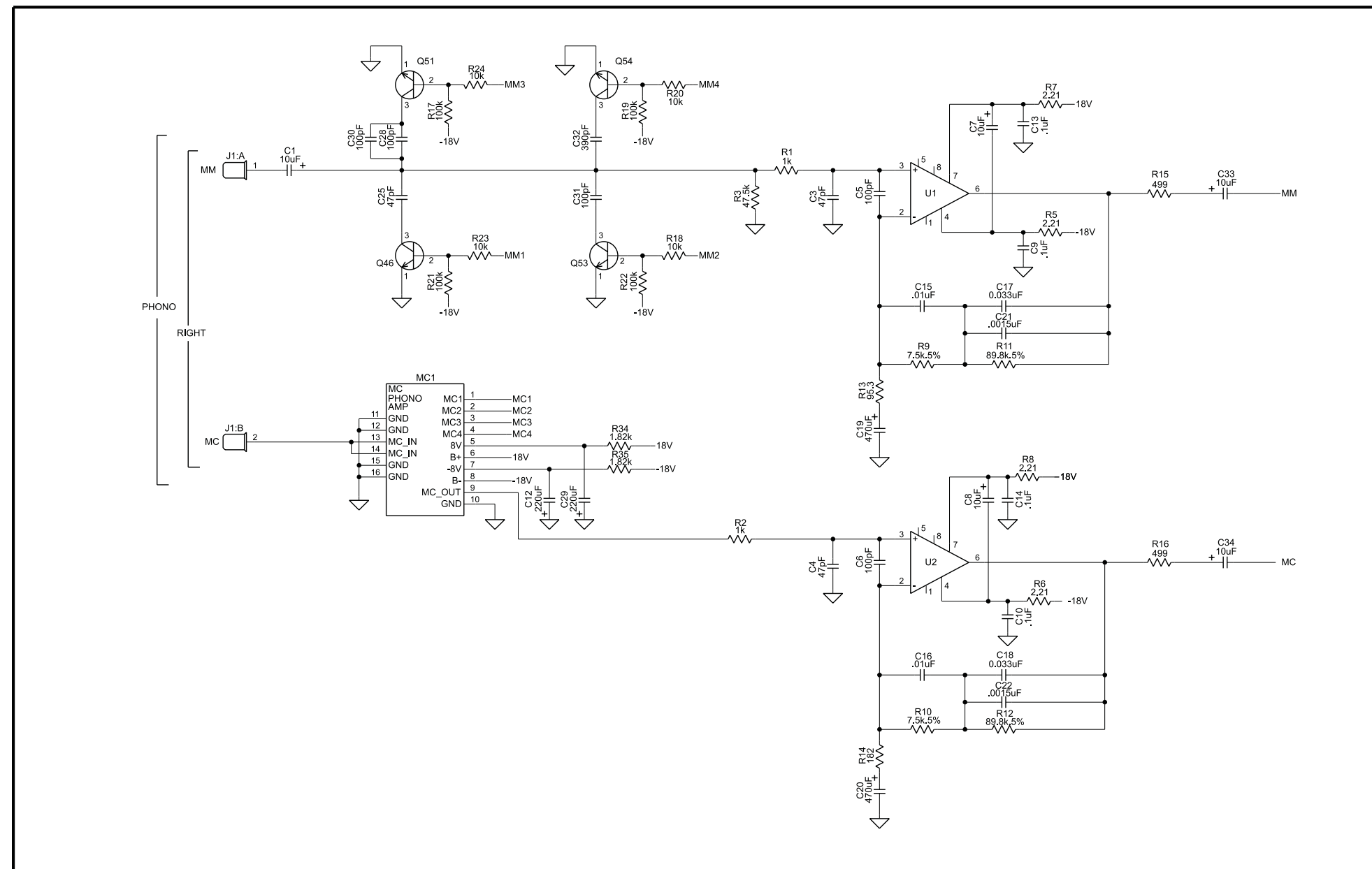




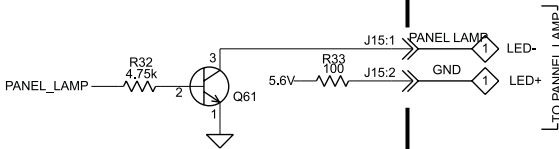


2 *MAIN LEFT* 129531 PCB 1



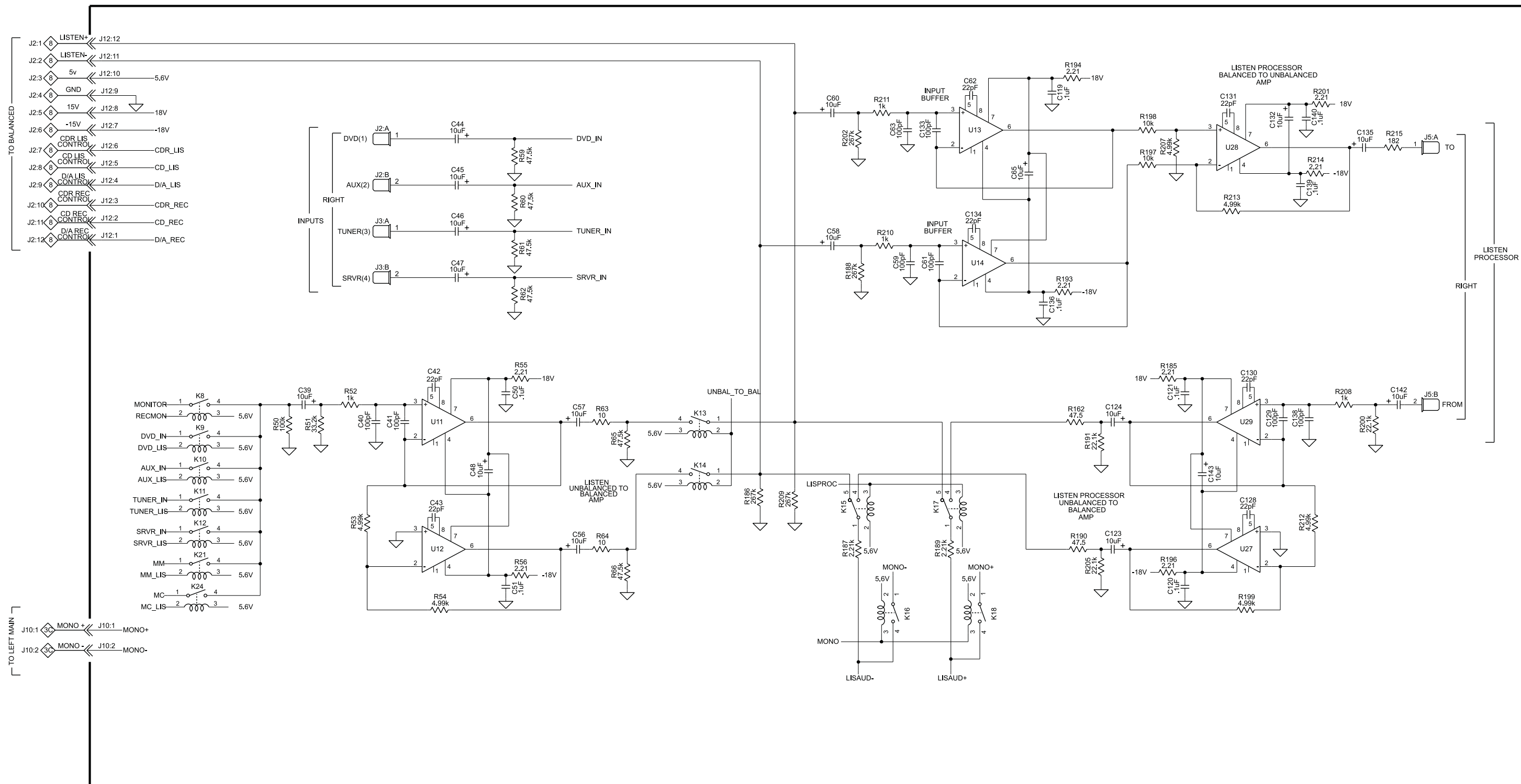


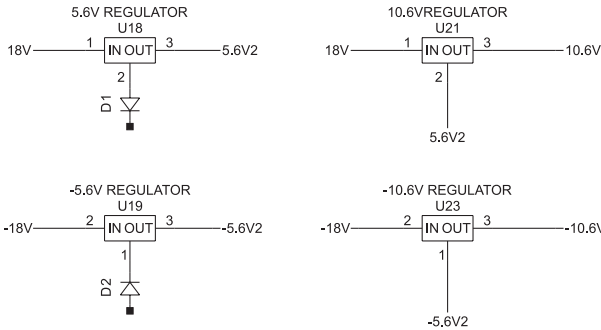
3

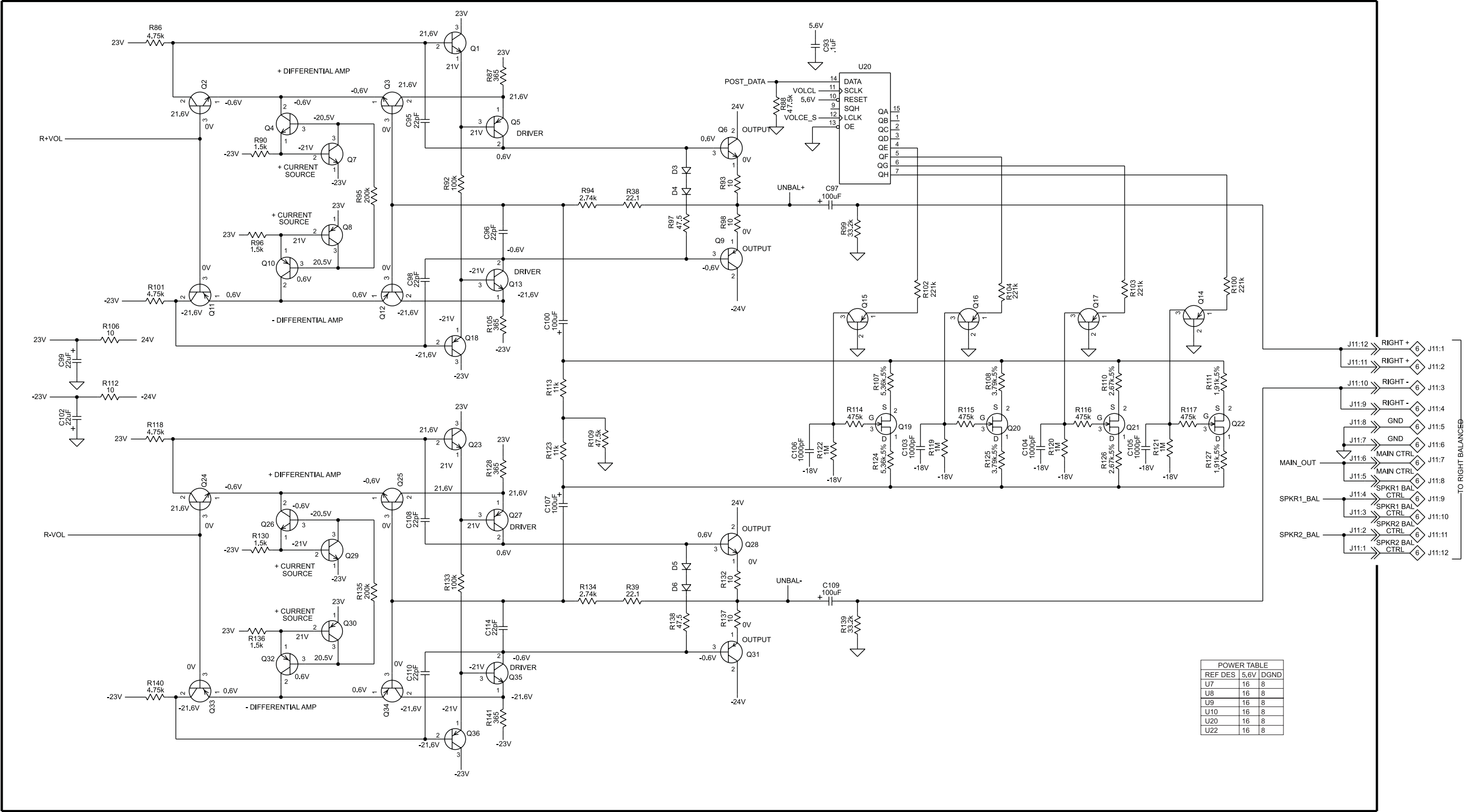


3 MAIN RIGHT 129535 SH 3 OF 6

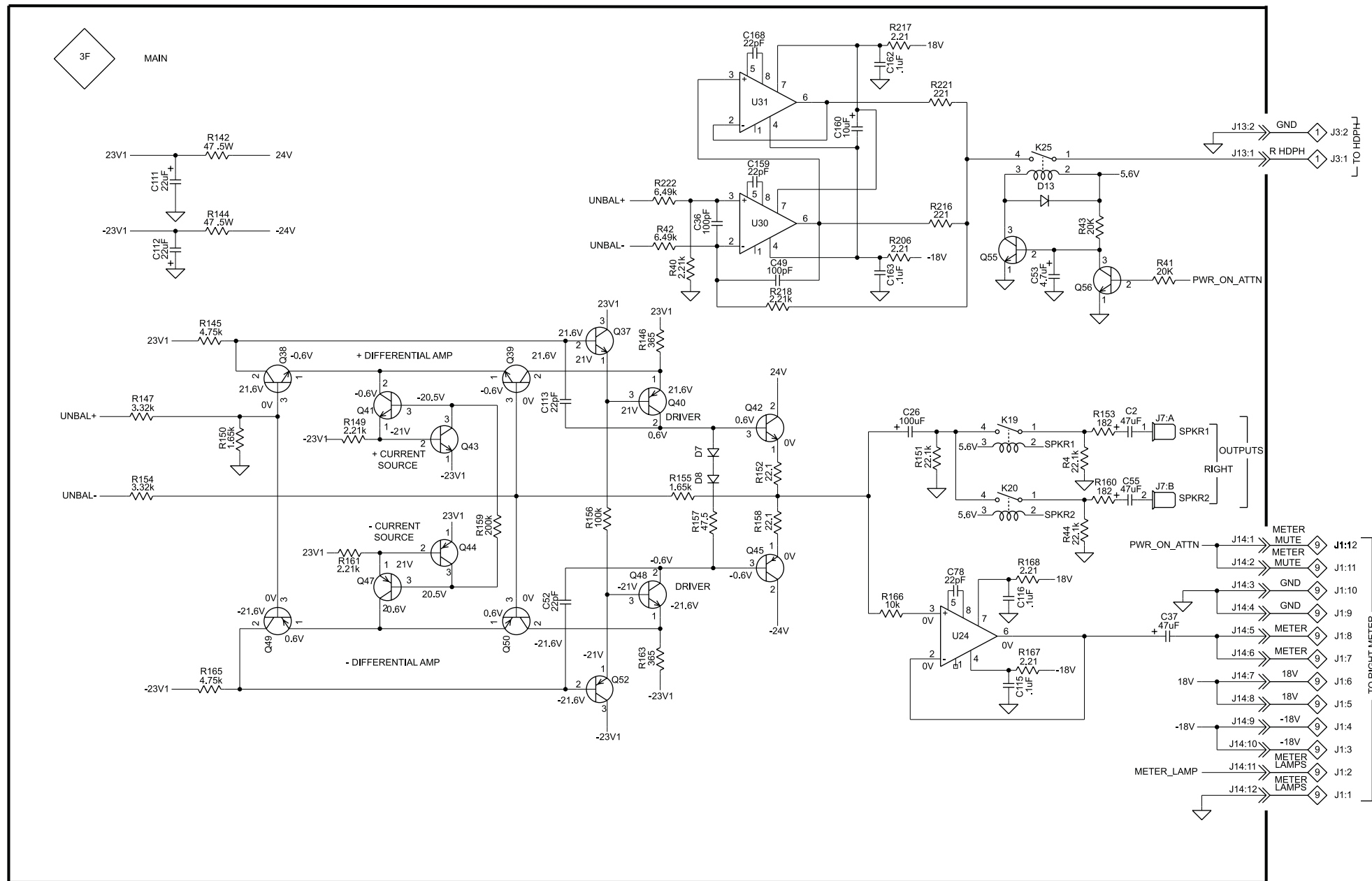
C1000P PREAMPLIFIER





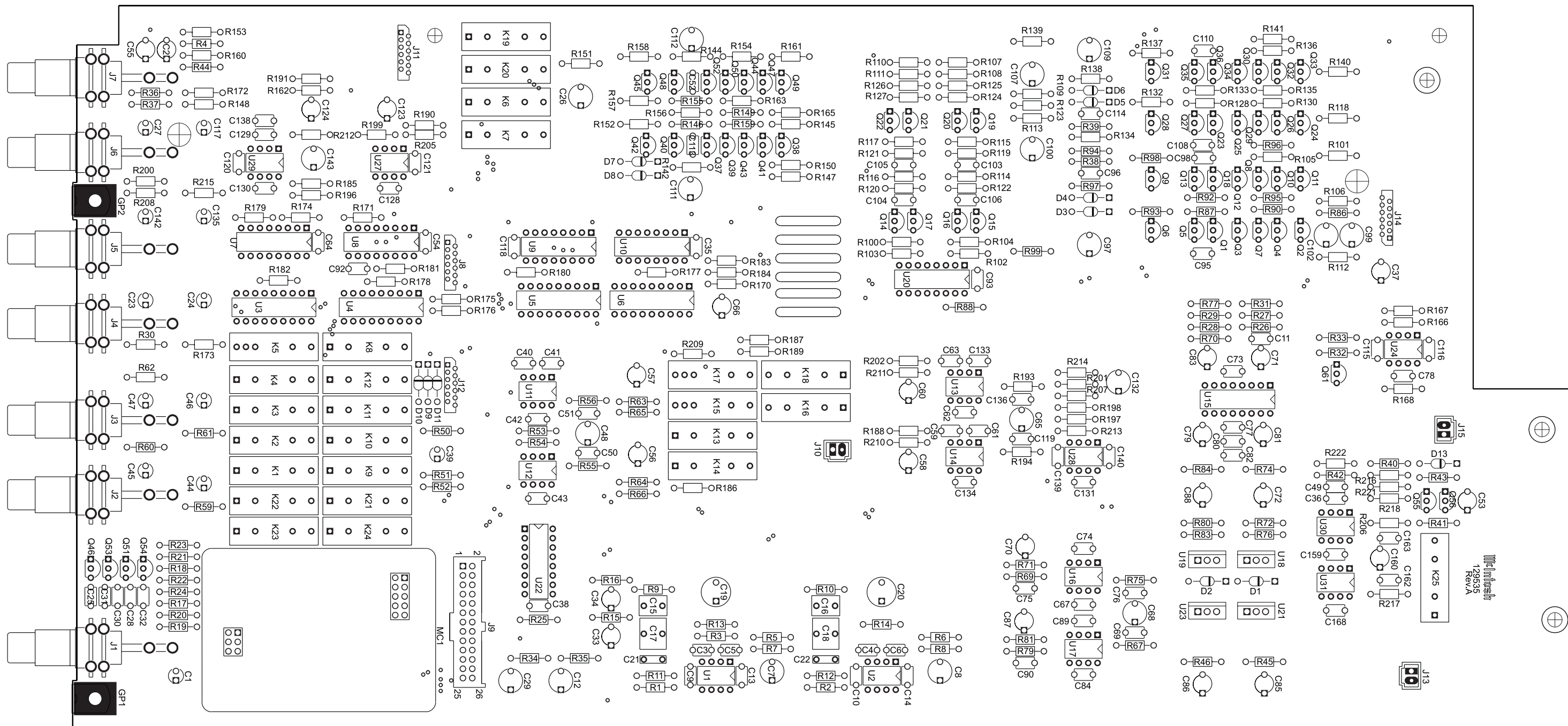


3 *MAIN RIGHT* 129535 SH 6 OF 6

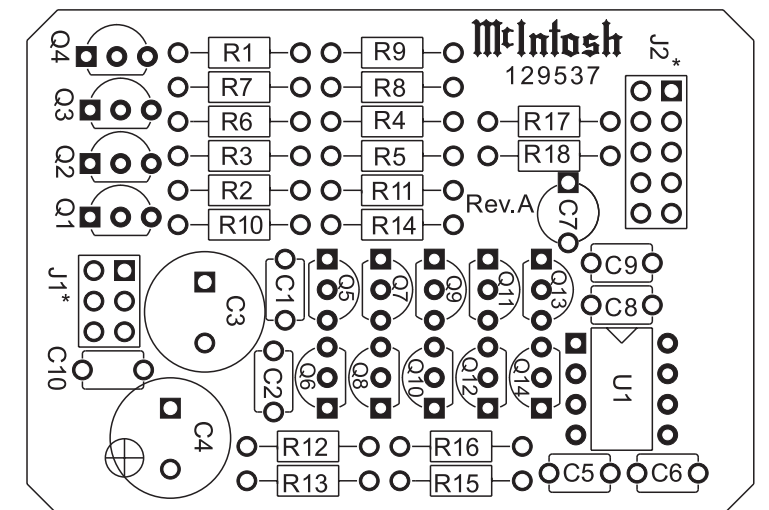
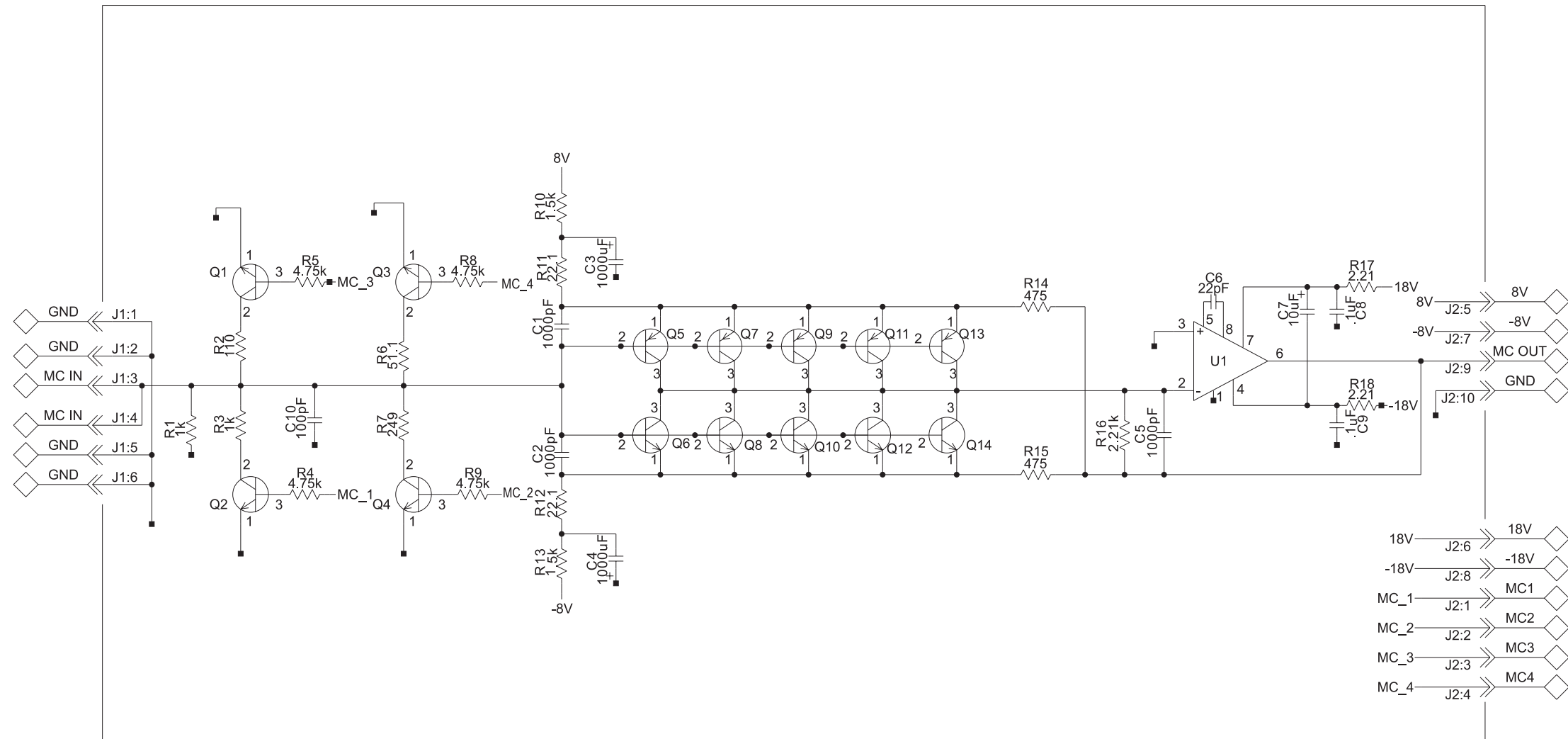


3 **MAIN RIGHT** 129535 PCB

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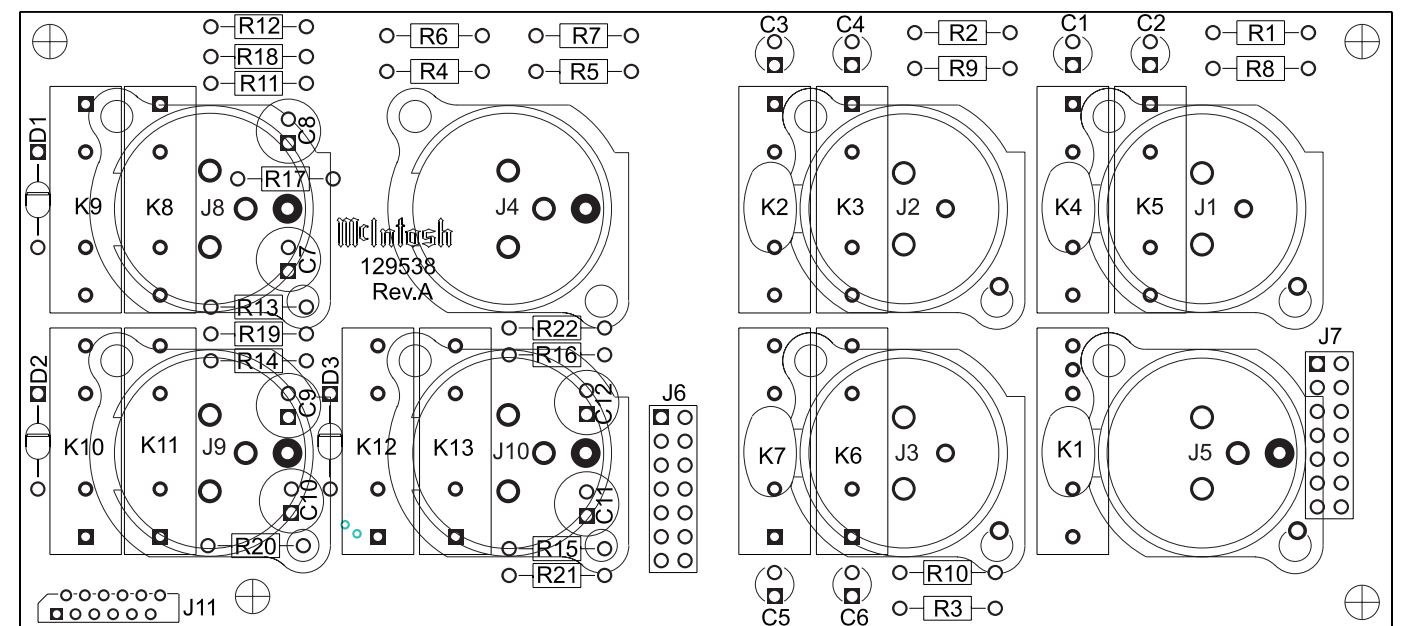
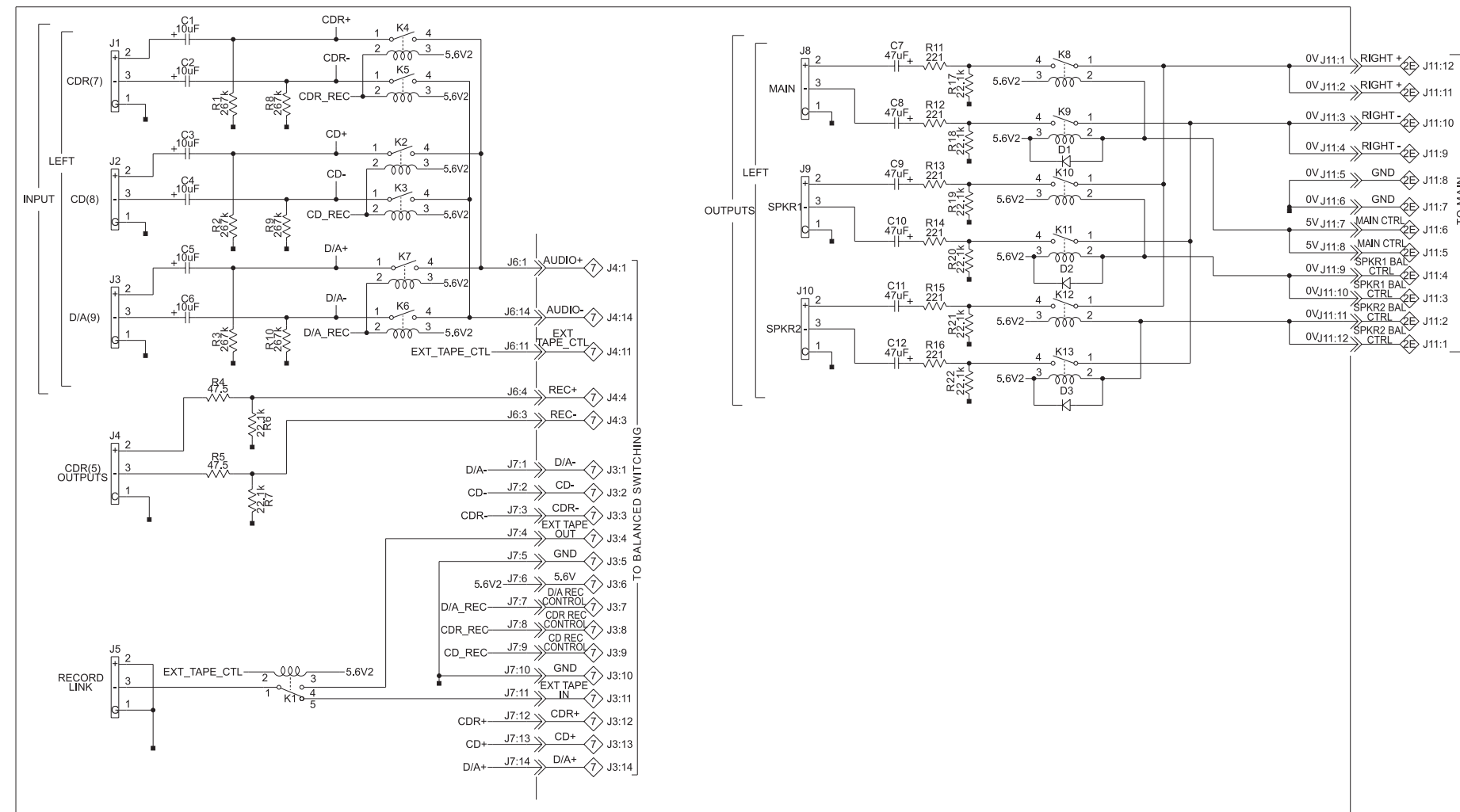


4 *PHONO MC 129537 SH and PCB*

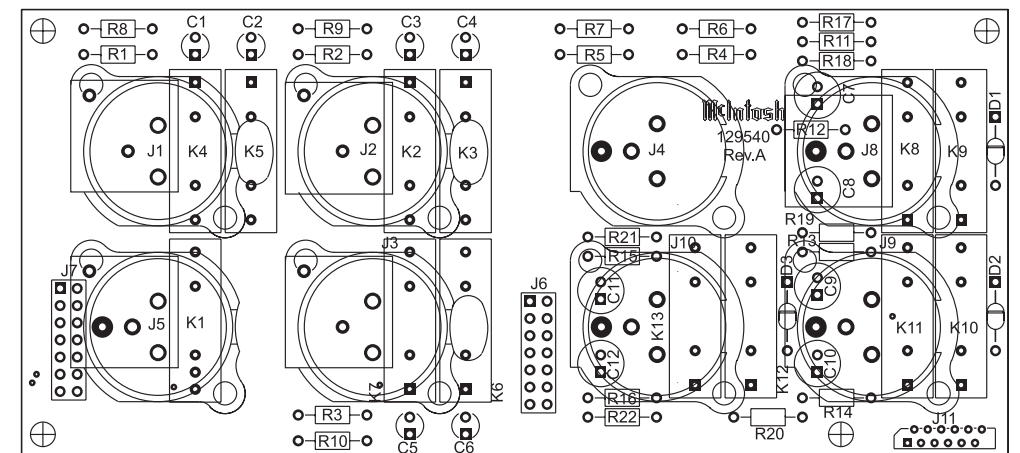
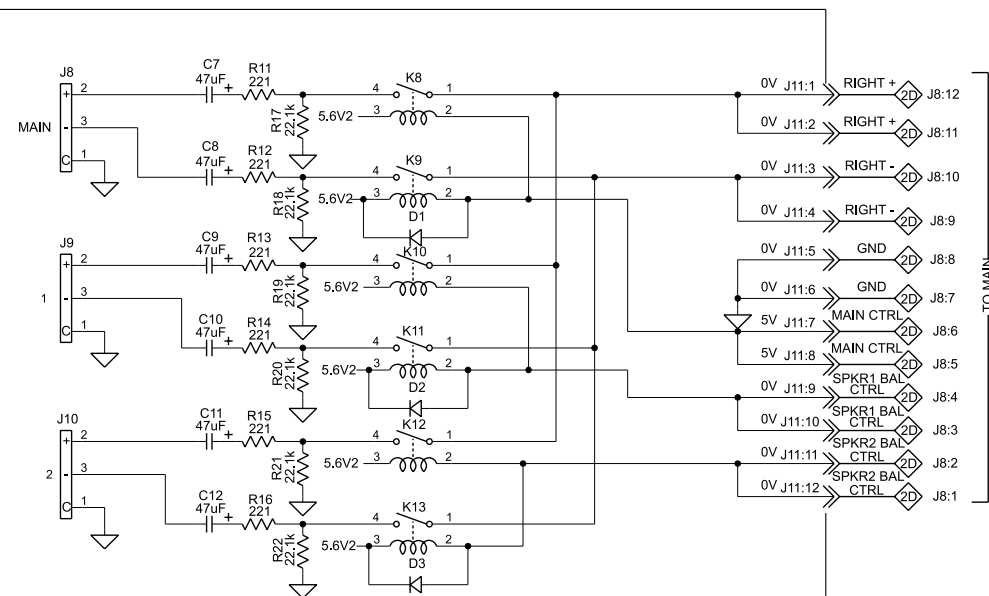
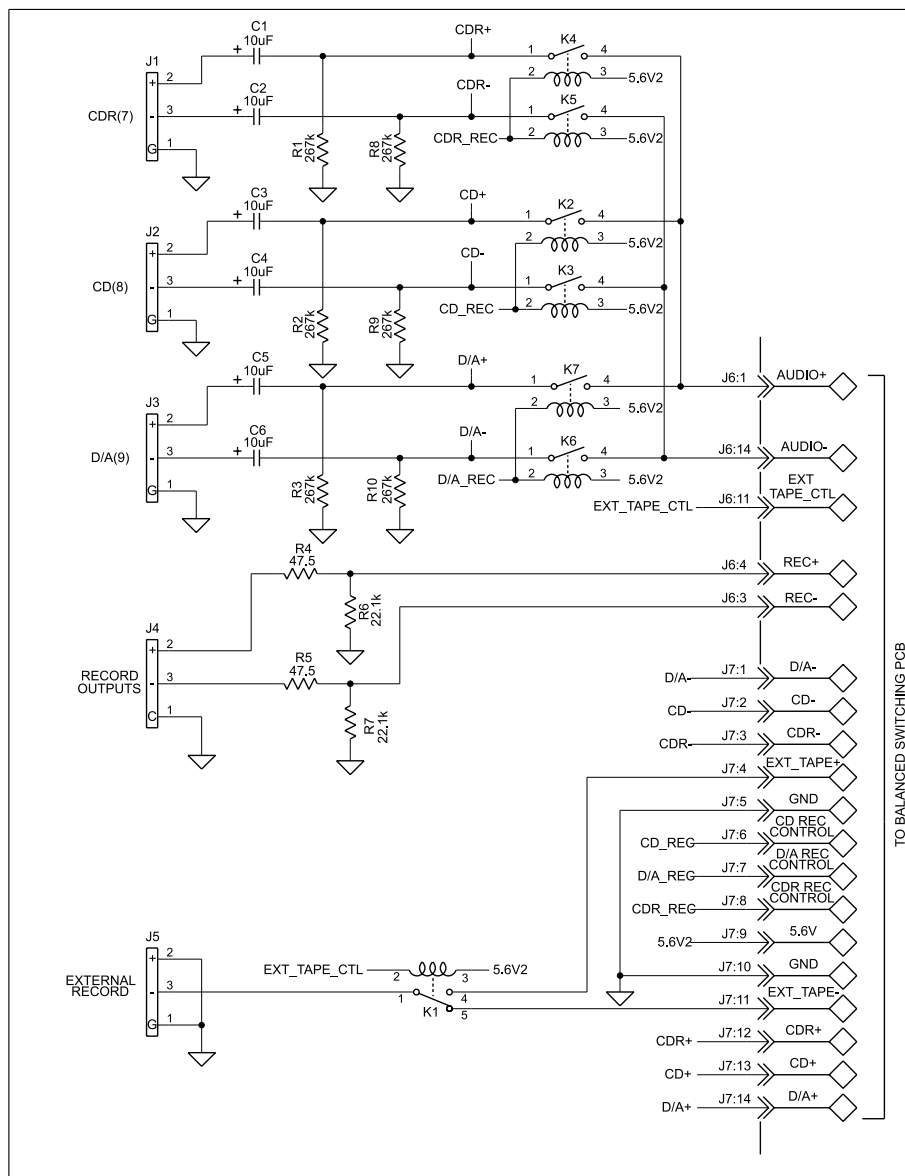


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PREAMPLIFIER

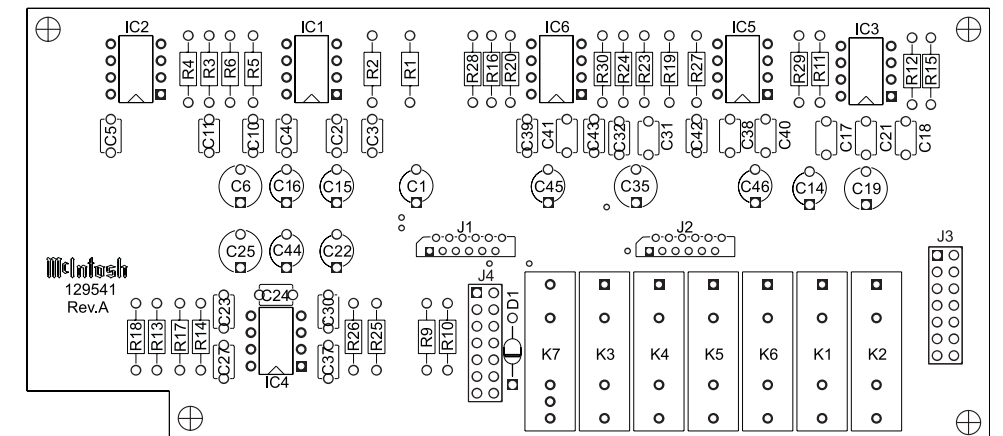
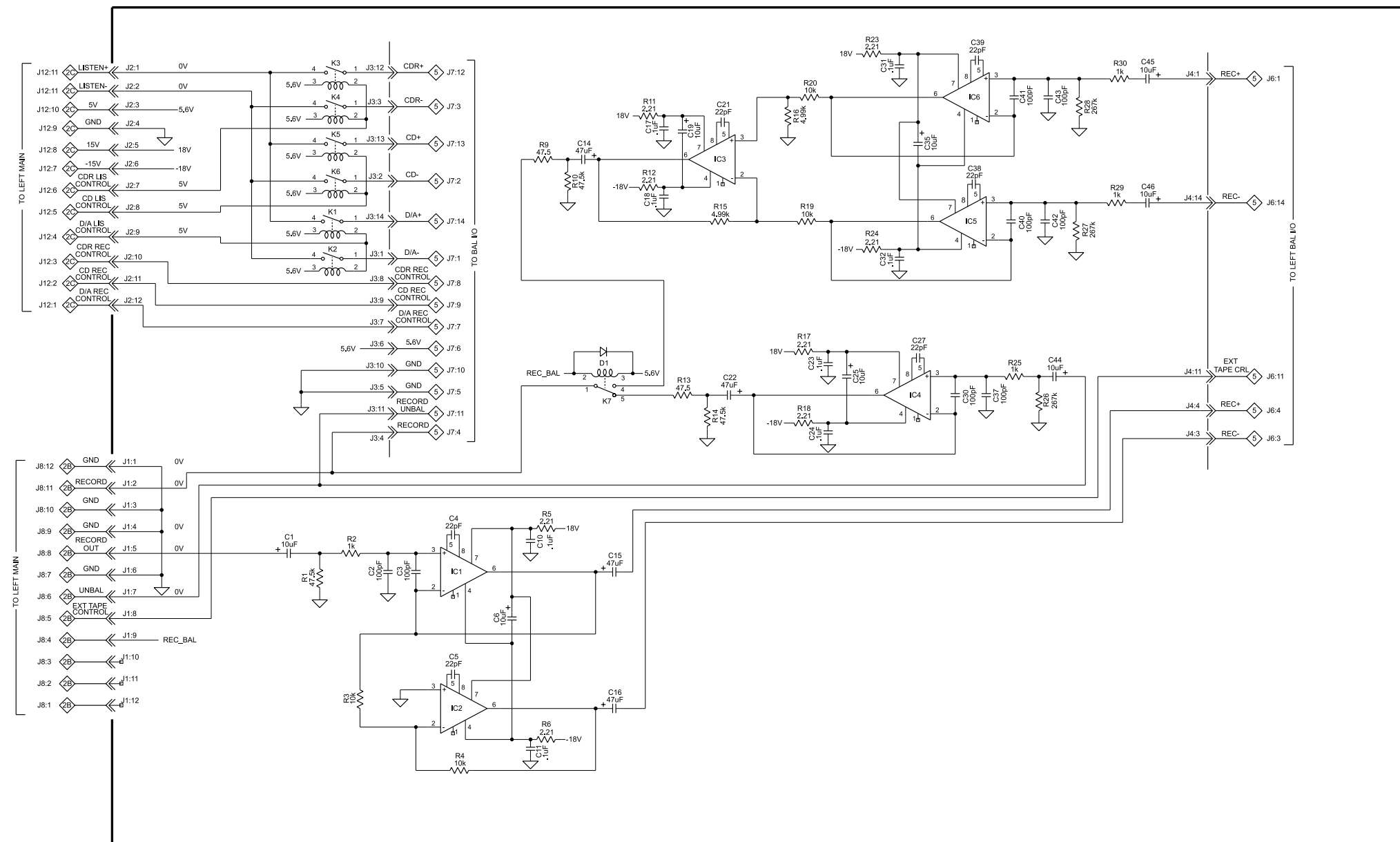
5 *BALANCE I/O LEFT 129538 SH and PCB*



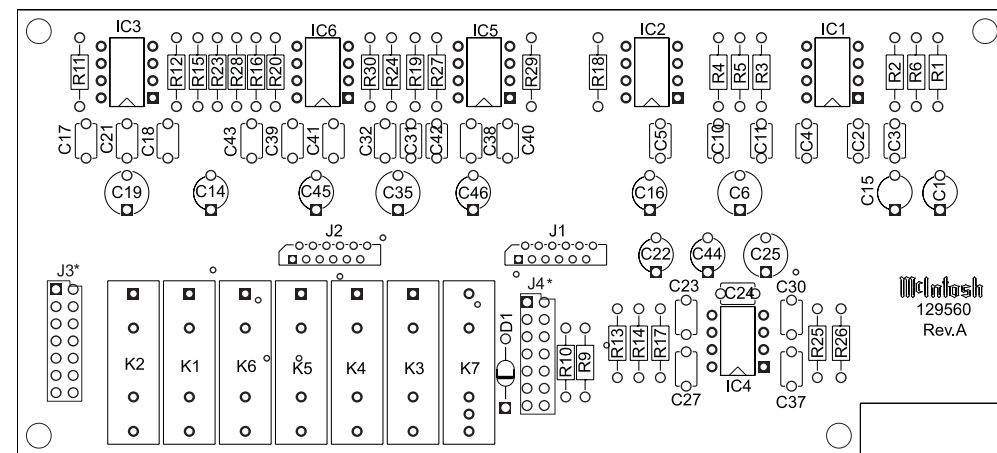
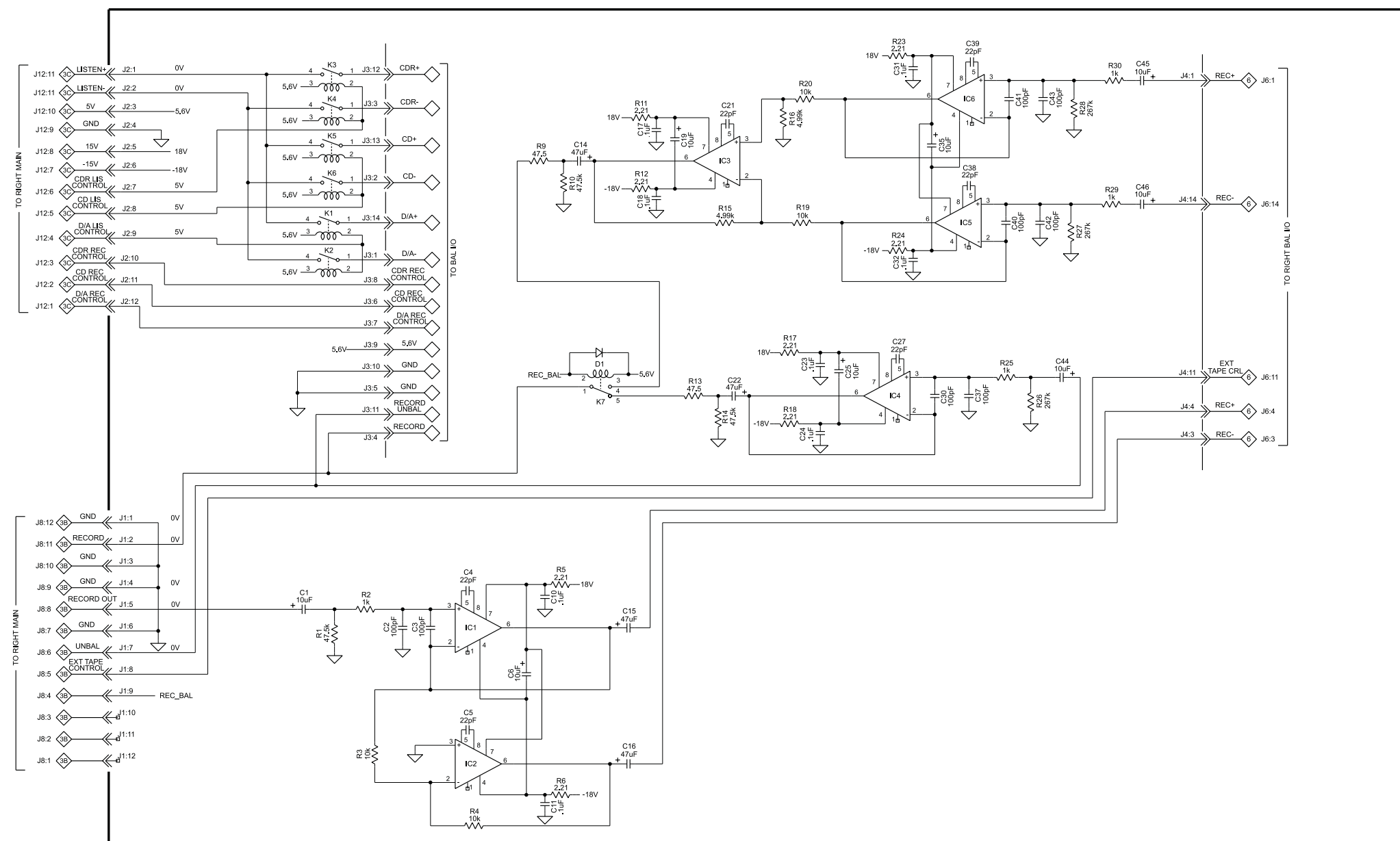
6 BALANCE I/O RIGHT 129540 SH and PCB



BALANCE SWITCHING LEFT 129541 SH and PCB

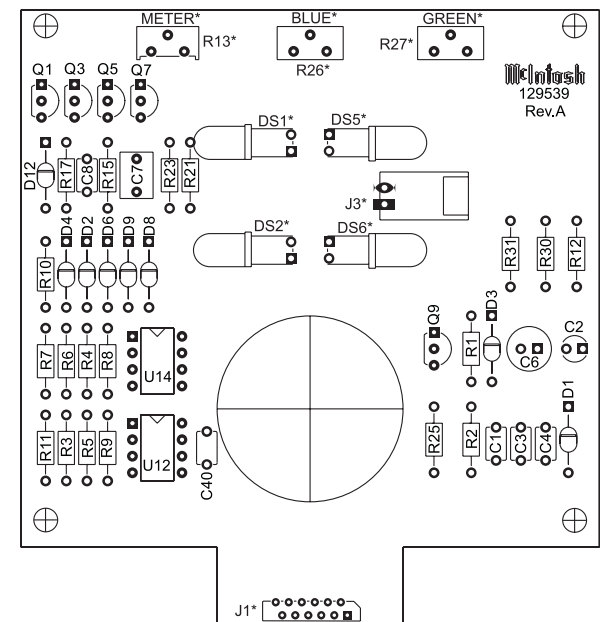
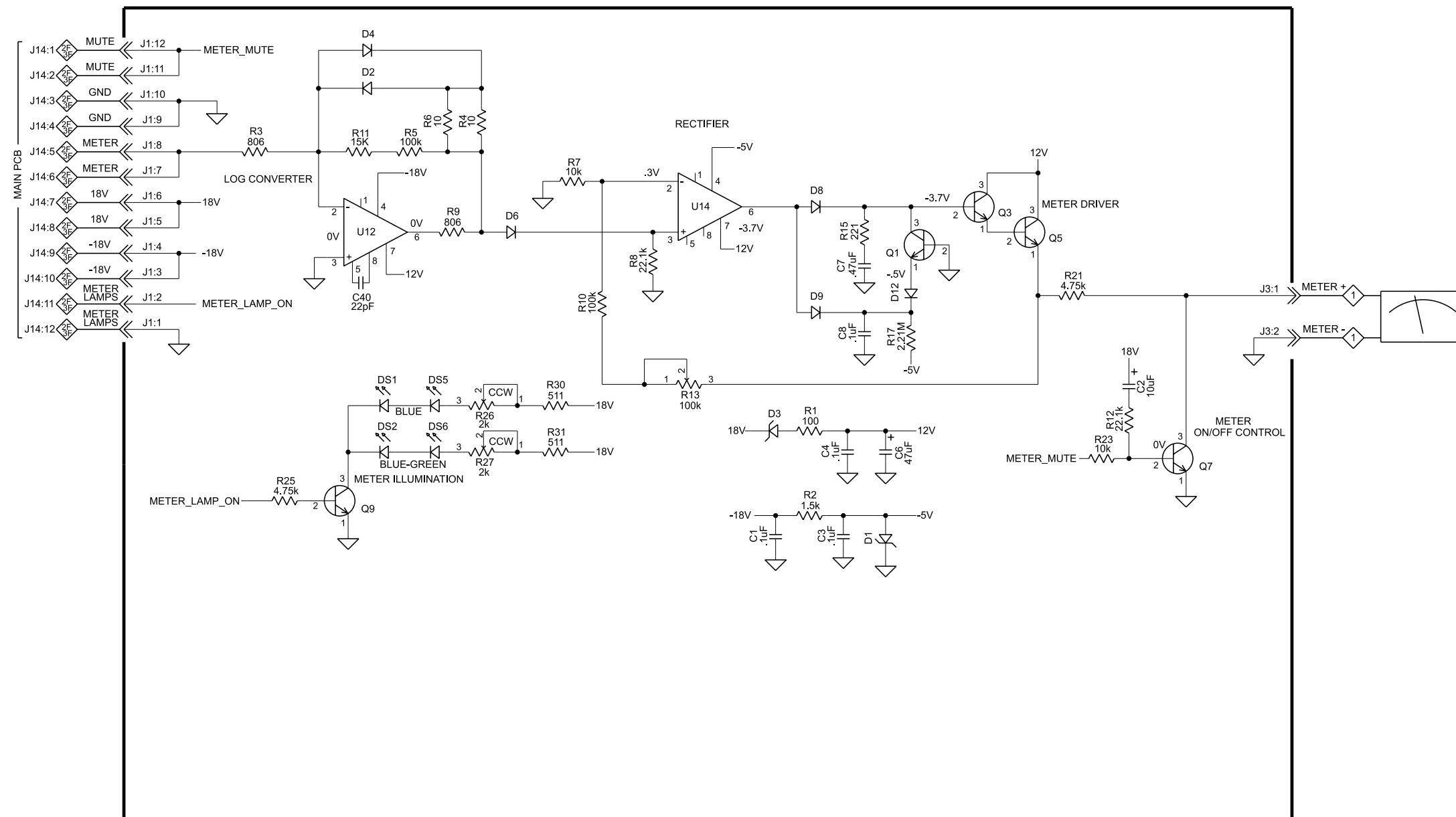


8 BALANCE SWITCHING RIGHT 129560 SH and PCB

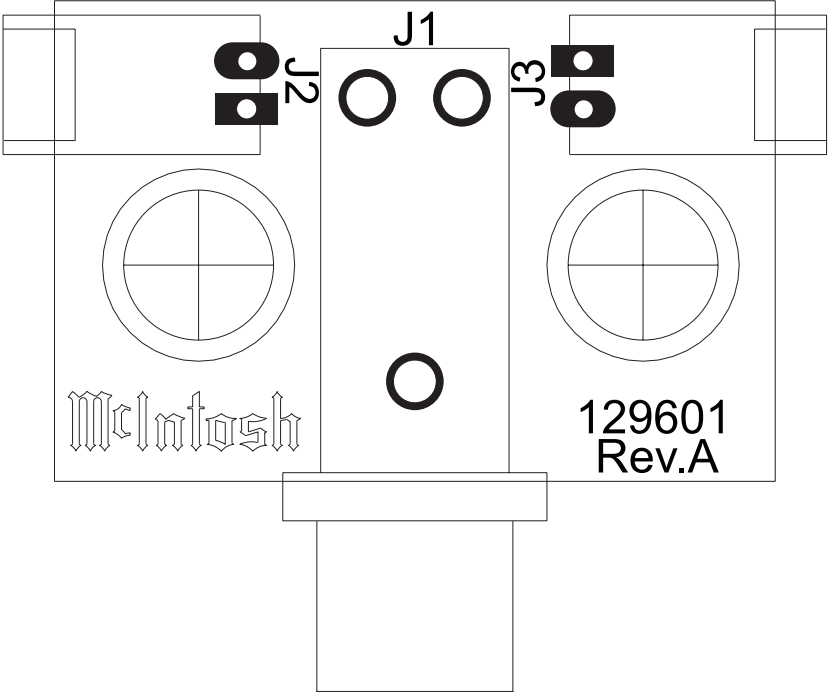
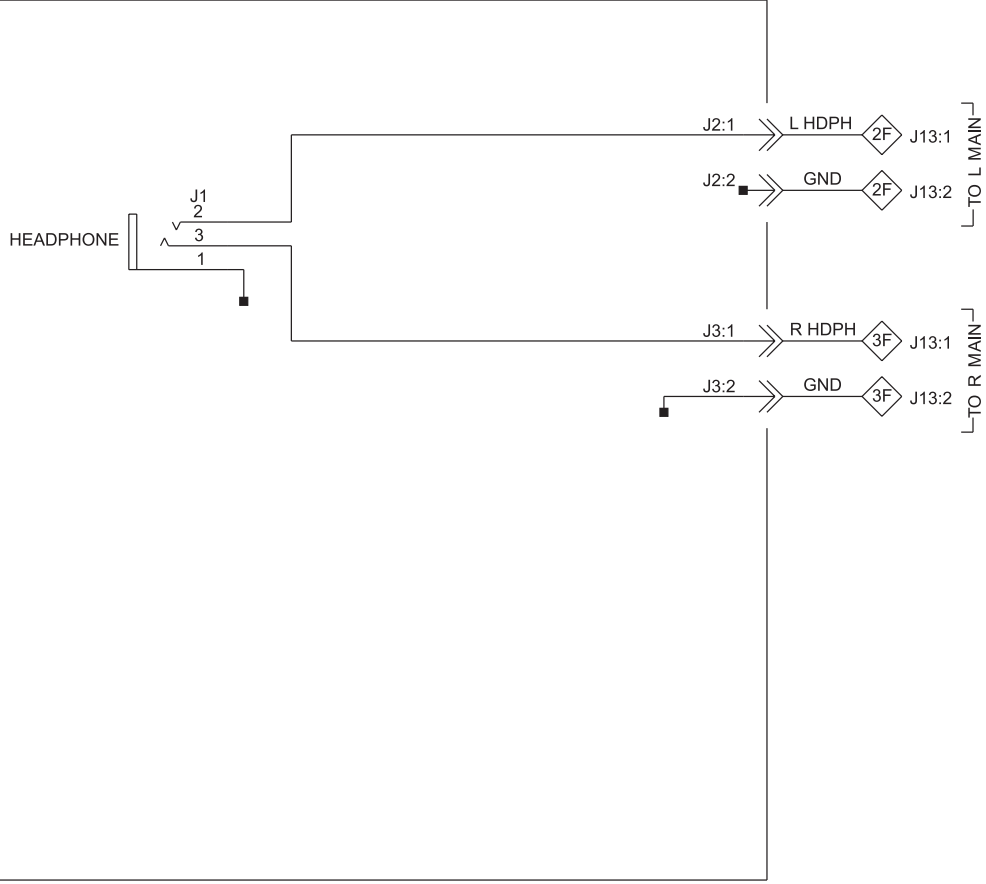


9 METER 129539 SH and PCB

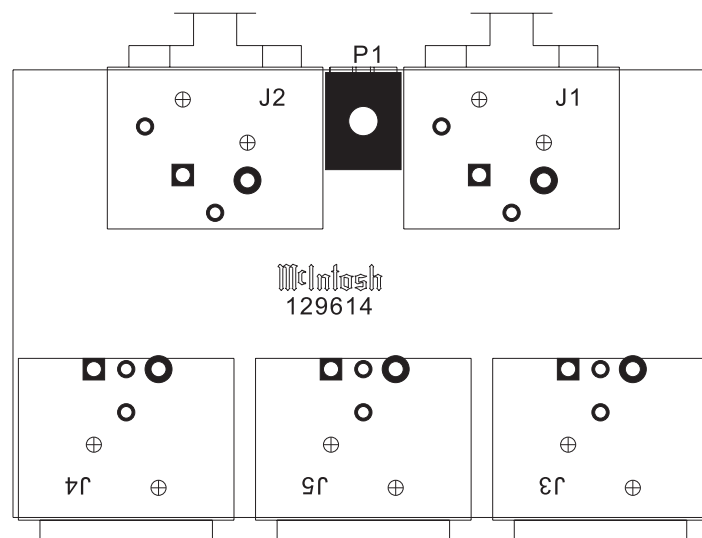
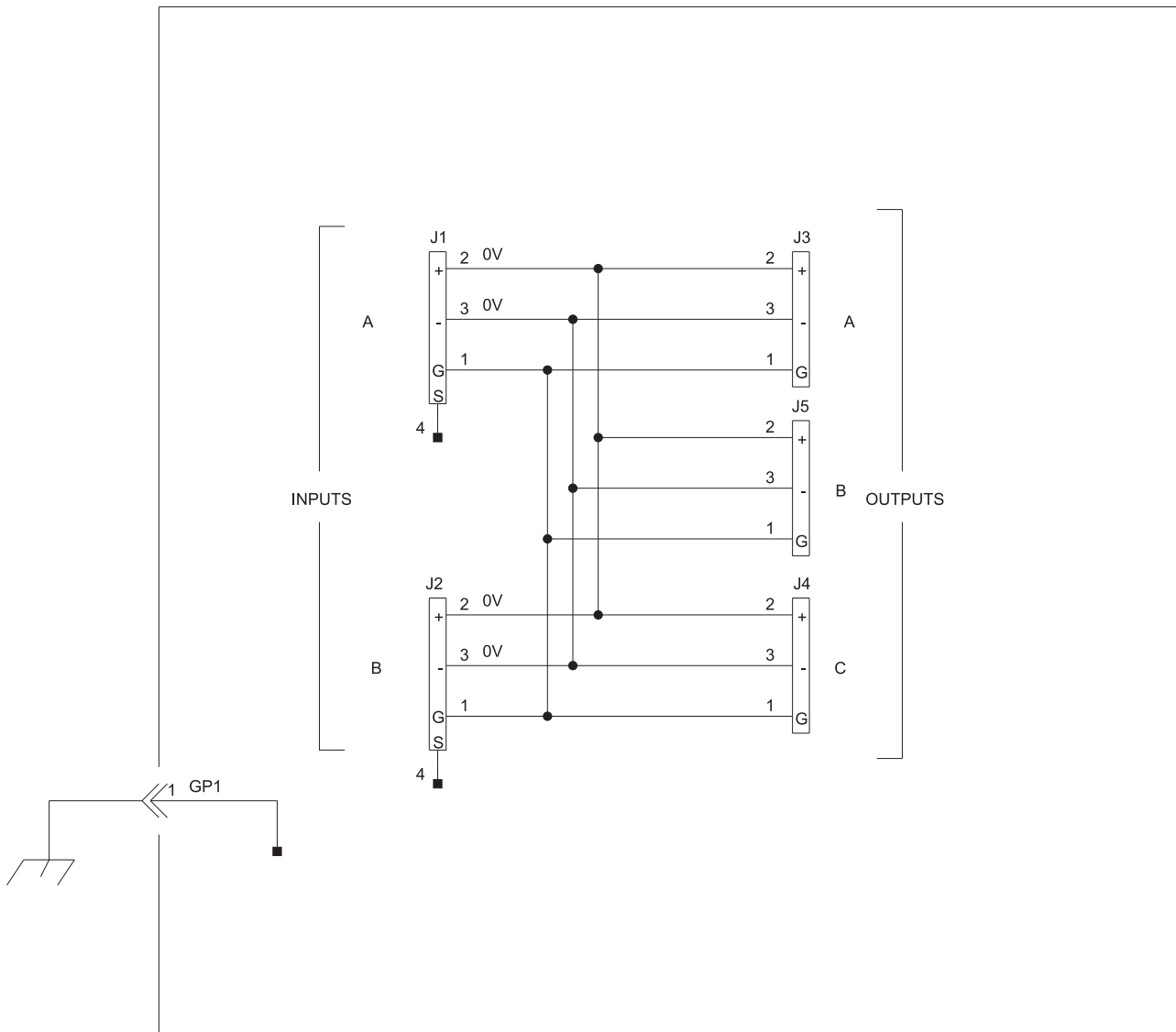
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10 HEADPHONE 129601 SH and PCB



11 INTEGRATOR 129614 SH and PCB



NOTES

PARTS LIST

Ref. No.	Description	Part No.			
MAIN LEFT PCB 129536					
1	PCB Part Number	129536	C65	CAP ELECT 10UF 100VDC	066462
2	LOGO		C66	CAP ELECT 4.7UF 50V	066512
3	PCB 700 Number	700077	C67	CAP MONO 22PF 200V 10% NPO	061298
C1	CAP ELECT 10UF 16V 4X5 CASE T&R	066555	C68	CAP ELECT 10UF 100VDC	066462
C2	CAP ELECT 47UF 35V	066446	C69	CAP MONO .1UF 50V 20%	061305
C3	CAP MONO 47PF 200V 10% NPO	061299	C70	CAP ELECT 10UF 50V	066445
C4	CAP MONO 47PF 200V 10% NPO	061299	C71	CAP ELECT 10UF 50V	066445
C5	CAP MONO 100PF 100V 10% NPO	061300	C72	CAP ELECT 47UF 35V	066446
C6	CAP MONO 100PF 100V 10% NPO	061300	C73	CAP MONO .1UF 50V 20%	061305
C7	CAP ELECT 10UF 100VDC	066462	C74	CAP MONO 100PF 100V 10% NPO	061300
C8	CAP ELECT 10UF 100VDC	066462	C75	CAP MONO 100PF 100V 10% NPO	061300
C9	CAP MONO .1uF 50V 20% Z5U	061305	C76	CAP MONO .1UF 50V 20%	061305
C10	CAP MONO .1uF 50V 20% Z5U	061305	C77	CAP MONO .1UF 50V 20%	061305
C11	CAP MONO 220PF 200V 10%	061301	C78	CAP MONO 22PF 200V 10% NPO	061298
C12	CAP ELECT 220UF 25V	066507	C79	CAP ELECT 10UF 50V	066445
C13	CAP MONO .1uF 50V 20% Z5U	061305	C80	CAP MONO .1UF 50V 20%	061305
C14	CAP MONO .1uF 50V 20% Z5U	061305	C81	CAP ELECT 10UF 50V	066445
C15	CAP POLYPROP 0.01UF 63V 1%	64444	C82	CAP MONO .1UF 50V 20%	061305
C16	CAP POLYPROP 0.01UF 63V 1%	64444	C83	CAP ELECT 10UF 50V	066445
C17	CAP POLYPROP .033uF 63V 1%	64446	C84	CAP MONO 22PF 200V 10% NPO	061298
C18	CAP POLYPROP .033uF 63V 1%	64446	C85	CAP ELECT 10UF 50V	066445
C19	CAP ELECT 470UF 16V	066508	C86	CAP ELECT 10UF 50V	066445
C20	CAP ELECT 470UF 16V	066508	C87	CAP ELECT 10UF 50V	066445
C21	CAP MPF 0.0015UF 5% 63VDC	64302	C88	CAP ELECT 47UF 35V	066446
C22	CAP MPF 0.0015UF 5% 63VDC	64302	C89	CAP MONO 100PF 100V 10% NPO	061300
C23	CAP ELECT 10UF 16V 4X5 CASE T&R	066555	C90	CAP MONO 100PF 100V 10% NPO	061300
C24	CAP ELECT 10UF 16V 4X5 CASE T&R	066555	C92	CAP MONO 220PF 100V 10% NPO	061301
C25	CAP MONO 47PF 200V 10%	061299	C93	CAP MONO .1UF 50V 20%	061305
C26	CAP ELECT 100UF 25V	066447	C95	CAP MONO 22PF 200V 10%	061298
C27	CAP ELECT 10UF 16V 4X5 CASE T&R	066555	C97	CAP ELECT 100UF 25V	066447
C28	CAP MONO 100PF 100V 10%	061300	C98	CAP MONO 22PF 200V 10%	061298
C29	CAP ELECT 220UF 25V	066507	C99	CAP ELECT 22UF 100V	066506
C30	CAP MONO 100PF 100V 10%	061300	C100	CAP ELECT 100UF 25V	066447
C31	CAP MONO 100PF 100V 10%	061300	C101	CAP MONO 22PF 200V 10%	061298
C32	CAP MONO 390PF 200V 5%	61314	C102	CAP ELECT 22UF 100V	066506
C33	CAP ELECT 10UF 50V	066445	C103	CAP MONO 1000PF 50V 10%	061303
C34	CAP ELECT 10UF 50V	066445	C104	CAP MONO 1000PF 50V 10%	061303
C35	CAP MONO .1UF 50V 20%	061305	C105	CAP MONO 1000PF 50V 10%	061303
C36	CAP MONO 100PF 100V 10%	061300	C106	CAP MONO 1000PF 50V 10%	061303
C37	CAP ELECT 47UF 35V	066446	C107	CAP ELECT 100UF 25V	066447
C38	CAP MONO .1UF 50V 20%	061305	C108	CAP MONO 22PF 200V 10%	061298
C39	CAP ELECT 10UF 16V 4X5 CASE T&R	066555	C109	CAP ELECT 100UF 25V	066447
C40	CAP MONO 100PF 100V 10% NPO	061300	C110	CAP MONO 22PF 200V 10%	061298
C41	CAP MONO 100PF 100V 10% NPO	061300	C111	CAP ELECT 22UF 100V	066506
C42	CAP MONO 22PF 200V 10% NPO	061298	C112	CAP ELECT 22UF 100V	066506
C43	CAP MONO 22PF 200V 10% NPO	061298	C113	CAP MONO 22PF 200V 10% NPO	061298
C44	CAP ELECT 10UF 16V 4X5 CASE T&R	066555	C114	CAP MONO 22PF 200V 10%	061298
C45	CAP ELECT 10UF 16V 4X5 CASE T&R	066555	C115	CAP MONO .1UF 50V 20%	061305
C46	CAP ELECT 10UF 16V 4X5 CASE T&R	066555	C116	CAP MONO .1UF 50V 20%	061305
C47	CAP ELECT 10UF 16V 4X5 CASE T&R	066555	C117	CAP ELECT 10UF 16V 4X5 CASE T&R	066555
C48	CAP ELECT 10UF 100VDC	066462	C118	CAP MONO .1UF 50V 20%	061305
C49	CAP MONO 100PF 100V 10%	061300	C119	CAP MONO .1UF 50V 20%	061305
C50	CAP MONO .1UF 50V 20%	061305	C120	CAP MONO .1UF 50V 20%	061305
C51	CAP MONO .1UF 50V 20%	061305	C121	CAP MONO .1UF 50V 20%	061305
C52	CAP MONO 22PF 200V 10% NPO	061298	C123	CAP ELECT 10UF 50V	066445
C53	CAP ELECT 4.7UF 50V	066512	C124	CAP ELECT 10UF 50V	066445
C54	CAP MONO .1UF 50V 20%	061305	C128	CAP MONO 22PF 200V 10% NPO	061298
C55	CAP ELECT 47UF 35V	066446	C129	CAP MONO 100PF 100V 10% NPO	061300
C56	CAP ELECT 10UF 50V	066445	C130	CAP MONO 22PF 200V 10% NPO	061298
C57	CAP ELECT 10UF 50V	066445	C131	CAP MONO 22PF 200V 10% NPO	061298
C58	CAP ELECT 10UF 50V	066445	C132	CAP ELECT 10UF 100VDC	066462
C59	CAP MONO 100PF 100V 10% NPO	061300	C133	CAP MONO 100PF 100V 10% NPO	061300
C60	CAP ELECT 10UF 50V	066445	C134	CAP MONO 22PF 200V 10% NPO	061298
C61	CAP MONO 100PF 100V 10% NPO	061300	C135	CAP ELECT 10UF 16V 4X5 CASE T&R	066555
C62	CAP MONO 22PF 200V 10% NPO	061298	C136	CAP MONO .1UF 50V 20%	061305
C63	CAP MONO 100PF 100V 10% NPO	061300	C138	CAP MONO 100PF 100V 10% NPO	061300
C64	CAP MONO .1UF 50V 20%	061305	C139	CAP MONO .1UF 50V 20%	061305
			C140	CAP MONO .1UF 50V 20%	061305
			C142	CAP ELECT 10UF 16V 4X5 CASE T&R	066555

Ref. No.	Description	Part No.			
MAIN LEFT PCB 129536 (Cont'd)					
C143	CAP ELECT 10UF 100VDC	066462	Q10	TRANSISTOR PNP POWER	132255
C159	CAP MONO 22PF 200V 10%	061298	Q11	TRANSISTOR PNP POWER	132255
C160	CAP ELECT 10UF 50V	066445	Q12	TRANSISTOR PNP POWER	132255
C162	CAP MONO .1UF 50V 20%	061305	Q13	TRANSISTOR SI NPN 25V	132254
C163	CAP MONO .1UF 50V 20%	061305	Q14	TRANSISTOR PNP	132224
C168	CAP MONO 22PF 200V 10%	061298	Q15	TRANSISTOR PNP	132224
D1	DIODE SILICON 1N4148	070047	Q16	TRANSISTOR PNP	132224
D2	DIODE SILICON 1N4148	070047	Q17	TRANSISTOR PNP	132224
D3	DIODE SILICON 1N4148	070047	Q18	TRANSISTOR PNP	132224
D4	DIODE SILICON 1N4148	070047	Q19	TRANSISTOR N JFET	132222
D5	DIODE SILICON 1N4148	070047	Q20	TRANSISTOR N JFET	132222
D6	DIODE SILICON 1N4148	070047	Q21	TRANSISTOR N JFET	132222
D7	DIODE SILICON 1N4148	070047	Q22	TRANSISTOR N JFET	132222
D8	DIODE SILICON 1N4148	070047	Q23	TRANSISTOR NPN	132223
D9	DIODE SILICON	070047	Q24	TRANSISTOR SI NPN 25V	132254
D10	DIODE SILICON	070047	Q25	TRANSISTOR SI NPN 25V	132254
D11	DIODE SILICON	070047	Q26	TRANSISTOR SI NPN 25V	132254
D13	DIODE SILICON	070047	Q27	TRANSISTOR PNP POWER	132255
GP1	BRACKET PCB CARD MOUNTING	3611	Q28	TRANSISTOR NPN	132262
GP2	BRACKET PCB CARD MOUNTING	3611	Q29	TRANSISTOR NPN	132223
J1	JACK PHONO GOLD	117862	Q30	TRANSISTOR PNP	132224
J2	JACK PHONO GOLD	117862	Q31	TRANSISTOR PNP	132261
J3	JACK PHONO GOLD	117862	Q32	TRANSISTOR PNP POWER	132255
J4	JACK PHONO GOLD	117862	Q33	TRANSISTOR PNP POWER	132255
J5	JACK PHONO GOLD	117862	Q34	TRANSISTOR PNP POWER	132255
J6	JACK PHONO GOLD	117862	Q35	TRANSISTOR SI NPN 25V	132254
J7	JACK PHONO GOLD	117862	Q36	TRANSISTOR PNP	132224
J8	CONN 12 PIN FFC	117720	Q37	TRANSISTOR NPN	132223
J9	HEADER SHROUDED 2ROW 26PIN V	117870	Q38	TRANSISTOR SI NPN 25V	132254
J10	HEADER 2 PIN LATCHING	117766	Q39	TRANSISTOR SI NPN 25V	132254
J11	CONN 12 PIN FFC	117720	Q40	TRANSISTOR PNP POWER	132255
J12	CONN 12 PIN FFC	117720	Q41	TRANSISTOR SI NPN 25V	132254
J13	HEADER 2 PIN LATCHING	117766	Q42	TRANSISTOR NPN	132262
J14	CONN 12 PIN FFC	117720	Q43	TRANSISTOR NPN	132223
K1	RELAY REED FORM 1A 5V 500 OHMS	87050	Q44	TRANSISTOR PNP	132224
K2	RELAY REED FORM 1A 5V 500 OHMS	87050	Q45	TRANSISTOR PNP	132261
K3	RELAY REED FORM 1A 5V 500 OHMS	87050	Q46	TRANSISTOR NPN	132223
K4	RELAY REED FORM 1A 5V 500 OHMS	87050	Q47	TRANSISTOR PNP POWER	132255
K5	RELAY REED FORM 1C 5V 125 OHM	87056	Q48	TRANSISTOR SI NPN 25V	132254
K6	RELAY REED FORM 1A 5V 500 OHMS	87050	Q49	TRANSISTOR PNP POWER	132255
K7	RELAY REED FORM 1A 5V 500 OHMS	87050	Q50	TRANSISTOR PNP POWER	132255
K8	RELAY REED FORM 1A 5V 500 OHMS	87050	Q51	TRANSISTOR NPN	132223
K9	RELAY REED FORM 1A 5V 500 OHMS	87050	Q52	TRANSISTOR PNP	132224
K10	RELAY REED FORM 1A 5V 500 OHMS	87050	Q53	TRANSISTOR NPN	132223
K11	RELAY REED FORM 1A 5V 500 OHMS	87050	Q54	TRANSISTOR NPN	132223
K12	RELAY REED FORM 1A 5V 500 OHMS	87050	Q55	TRANSISTOR NPN	132223
K13	RELAY REED FORM 1A 5V 500 OHMS	87050	Q56	TRANSISTOR NPN	132223
K14	RELAY REED FORM 1A 5V 500 OHMS	87050	R1	RES MF 1K 1% 1/4W	144090
K15	RELAY REED FORM 1C 5V 125 OHM	87056	R2	RES MF 1K 1% 1/4W	144090
K16	RELAY REED FORM 1C 5V 125 OHM	87056	R3	RES MF 47.5K 1% 1/4W	144108
K17	RELAY REED FORM 1C 5V 125 OHM	87056	R4	RES MF 22.1K 1% 1/4W	144187
K18	RELAY REED FORM 1C 5V 125 OHM	87056	R5	RES MF 2.21 OHM 1/4W 1%	144378
K19	RELAY REED FORM 1A 5V 500 OHMS	87050	R6	RES MF 2.21 OHM 1/4W 1%	144378
K20	RELAY REED FORM 1A 5V 500 OHMS	87050	R7	RES MF 2.21 OHM 1/4W 1%	144378
K21	RELAY REED FORM 1A 5V 500 OHMS	87050	R8	RES MF 2.21 OHM 1/4W 1%	144378
K22	RELAY REED FORM 1A 5V 500 OHMS	87050	R9	RES MF 7.5K OHM 1/4W 0.5%	144376
K23	RELAY REED FORM 1A 5V 500 OHMS	87050	R10	RES MF 7.5K OHM 1/4W 0.5%	144376
K24	RELAY REED FORM 1A 5V 500 OHMS	87050	R11	RES MF 89.8K 1/4W 0.5%	144377
K25	RELAY REED FORM 1A 5V 500 OHMS	87050	R12	RES MF 89.8K 1/4W 0.5%	144377
MC1		50104	R13	RES MF 95.3 OHM 1% 1/4W	144220
Q1	TRANSISTOR NPN	132223	R14	RES MF 182 OHM 1% 1/4W	144273
Q2	TRANSISTOR SI NPN 25V	132254	R15	RES MF 499 OHM 1% 1/4W	144087
Q3	TRANSISTOR SI NPN 25V	132254	R16	RES MF 499 OHM 1% 1/4W	144087
Q4	TRANSISTOR SI NPN 25V	132254	R17	RES MF 100K 1% 1/4W	144113
Q5	TRANSISTOR PNP POWER	132255	R18	RES MF 10K 1% 1/4W	144053
Q6	TRANSISTOR NPN	132262	R19	RES MF 100K 1% 1/4W	144113
Q7	TRANSISTOR NPN	132223	R20	RES MF 10K 1% 1/4W	144053
Q8	TRANSISTOR PNP	132224	R21	RES MF 100K 1% 1/4W	144113
Q9	TRANSISTOR PNP	132261	R22	RES MF 100K 1% 1/4W	144113
			R23	RES MF 10K 1% 1/4W	144053
			R24	RES MF 10K 1% 1/4W	144053

PARTS LIST Cont'd

Ref. No.	Description	Part No.			
MAIN LEFT PCB 129536 (Cont'd)					
R25	RES MF 1K 1% 1/4W	144090	R106	RES FP 10 OHM 5% 1/4W	137025
R26	RES MF 1K 1% 1/4W	144090	R107	RES MF 5.36K .5% 1/4W	144399
R27	RES MF 1K 1% 1/4W	144090	R108	RES MF 3.79k .1%	144398
R28	RES MF 1K 1% 1/4W	144090	R109	RES MF 47.5K 1% 1/4W	144108
R29	RES MF 4.75K 1% 1/4W	144097	R110	RES MF 2.67K .5%	144397
R30	RES MF 267K 1% 1/4W	144118	R111	RES MF 1.91K .5% 1/4W	144395
R31	RES MF 4.75K 1% 1/4W	144097	R112	RES FP 10 OHM 5% 1/4W	137025
R32	RES MF 1.82K 1% 1/4W	144296	R113	RES MF 11K 1% 1/4W	144101
R33	RES MF 1.82K 1% 1/4W	144296	R114	RES MF 475K 1% 1/4W	144364
R34	RES MF 2.21K 1% 1/4W	144298	R115	RES MF 475K 1% 1/4W	144364
R35	RES MF 20K 1% 1/4W	144104	R116	RES MF 475K 1% 1/4W	144364
R36	RES MF 267K 1% 1/4W	144118	R117	RES MF 475K 1% 1/4W	144364
R37	RES MF 182 OHM 1% 1/4W	144273	R118	RES MF 4.75K 1% 1/4W	144097
R38	RES MF 22.1 OHM 1% 1/4W	144160	R119	RES MF 1M 1/4W	144269
R39	RES MF 22.1 OHM 1% 1/4W	144160	R120	RES MF 1M 1/4W	144269
R40	RES MF 6.49K .5% 1/4W	144401	R121	RES MF 1M 1/4W	144269
R41	RES MF 20K 1% 1/4W	144104	R122	RES MF 1M 1/4W	144269
R42	RES MET OX 430 OHM .5W 5%	137095	R123	RES MF 11K 1% 1/4W	144101
R43	RES MET OX 430 OHM .5W 5%	137095	R124	RES MF 5.36K .5% 1/4W	144399
R44	RES MF 22.1K 1% 1/4W	144187	R125	RES MF 3.79k .1%	144398
R50	RES MF 100K 1% 1/4W	144113	R126	RES MF 2.67K .5%	144397
R51	RES MF 33.2K 1% 1/4W	144015	R127	RES MF 1.91K .5% 1/4W	144395
R52	RES MF 1K 1% 1/4W	144090	R128	RES MF 365 OHM 1/4W	144071
R53	RES MF 4.99K 1% 1/4W	144098	R130	RES MF 1.5K 1% 1/4W	144128
R54	RES MF 4.99K 1% 1/4W	144098	R132	RES MF 10 OHM 1% 1/4W	144157
R55	RES MF 2.21 OHM 1/4W 1%	144378	R133	RES MF 100K 1% 1/4W	144113
R56	RES MF 2.21 OHM 1/4W 1%	144378	R134	RES MF 2.74K 1% 1/4W	144304
R59	RES MF 47.5K 1% 1/4W	144108	R135	RES MF 200K 1% 1/4W	144117
R60	RES MF 47.5K 1% 1/4W	144108	R136	RES MF 1.5K 1% 1/4W	144128
R61	RES MF 47.5K 1% 1/4W	144108	R137	RES MF 10 OHM 1% 1/4W	144157
R62	RES MF 47.5K 1% 1/4W	144108	R138	RES MF 47.5 OHM 1% 1/4W	144442
R63	RES MF 10 OHM 1% 1/4W	144157	R139	RES MF 33.2K 1% 1/4W	144015
R64	RES MF 10 OHM 1% 1/4W	144157	R140	RES MF 4.75K 1% 1/4W	144097
R65	RES MF 47.5K 1% 1/4W	144108	R141	RES MF 365 OHM 1/4W	144071
R66	RES MF 47.5K 1% 1/4W	144108	R142	RES MET OX 47 OHM .5W 5	137096
R67	RES MF 2.21 OHM 1/4W 1%	144378	R144	RES MET OX 47 OHM .5W 5	137096
R69	RES MF 1K 1% 1/4W	144090	R145	RES MF 4.75K 1% 1/4W	144097
R70	RES MF 221 OHM 1% 1/4W	144172	R146	RES MF 365 OHM 1/4W	144071
R71	RES MF 33.2K 1% 1/4W	144015	R147	RES MF 3.32K 1% 1/4W	144095
R72	RES MF 681 OHM 1% 1/4W	144195	R148	RES MF 182 OHM 1% 1/4W	144273
R74	RES MF 267K 1% 1/4W	144118	R149	RES MF 2.21K 1% 1/4W	144298
R75	RES MF 2.21 OHM 1/4W 1%	144378	R150	RES MF 1.65K 1% 1/4W	144093
R76	RES MF 1.21K 1% 1/4W	144191	R151	RES MF 22.1K 1% 1/4W	144187
R77	RES MF 4.99K 1% 1/4W	144098	R152	RES MF 22.1 OHM 1/4W	144160
R79	RES MF 1K 1% 1/4W	144090	R153	RES MF 182 OHM 1% 1/4W	144273
R80	RES MF 681 OHM 1% 1/4W	144195	R154	RES MF 3.32K 1% 1/4W	144095
R81	RES MF 33.2K 1% 1/4W	144015	R155	RES MF 1.65K 1% 1/4W	144093
R83	RES MF 1.21K 1% 1/4W	144191	R156	RES MF 100K 1% 1/4W	144113
R84	RES MF 267K 1% 1/4W	144118	R157	RES MF 47.5 OHM 1% 1/4W	144442
R86	RES MF 4.75K 1% 1/4W	144097	R158	RES MF 22.1 OHM 1/4W	144160
R87	RES MF 365 OHM 1/4W	144071	R159	RES MF 200K 1% 1/4W	144117
R88	RES MF 47.5K 1% 1/4W	144108	R160	RES MF 182 OHM 1% 1/4W	144273
R90	RES MF 1.5K 1% 1/4W	144128	R161	RES MF 2.21K 1% 1/4W	144298
R92	RES MF 100K 1% 1/4W	144113	R162	RES MF 47.5 OHM 1% 1/4W	144442
R93	RES MF 10 OHM 1% 1/4W	144157	R163	RES MF 365 OHM 1/4W	144071
R94	RES MF 2.74K 1% 1/4W	144304	R165	RES MF 4.75K 1% 1/4W	144097
R95	RES MF 200K 1% 1/4W	144117	R166	RES MF 10K 1% 1/4W	144053
R96	RES MF 1.5K 1% 1/4W	144128	R167	RES MF 2.21 OHM 1/4W 1%	144378
R97	RES MF 47.5 OHM 1% 1/4W	144442	R168	RES MF 2.21 OHM 1/4W 1%	144378
R98	RES MF 10 OHM 1% 1/4W	144157	R170	RES MF 100K 1% 1/4W	144113
R99	RES MF 33.2K 1% 1/4W	144015	R171	RES MF 4.75K 1% 1/4W	144097
R100	RES MF 221K 1% 1/4W	144421	R172	RES MF 267K 1% 1/4W	144118
R101	RES MF 4.75K 1% 1/4W	144097	R173	RES MF 182 OHM 1% 1/4W	144273
R102	RES MF 221K 1% 1/4W	144421	R174	RES MF 4.75K 1% 1/4W	144097
R103	RES MF 221K 1% 1/4W	144421	R175	RES MF 4.75K 1% 1/4W	144097
R104	RES MF 221K 1% 1/4W	144421	R176	RES MF 4.75K 1% 1/4W	144097
R105	RES MF 365 OHM 1/4W	144071	R177	RES MF 1K 1% 1/4W	144090
			R178	RES MF 1K 1% 1/4W	144090
			R179	RES MF 1K 1% 1/4W	144090
			R180	RES MF 1K 1% 1/4W	144090
			R181	RES MF 1K 1% 1/4W	144090
			R182	RES MF 1K 1% 1/4W	144090

Ref. No.	Description	Part No.	Ref. No.	Description	Part No.
MAIN LEFT PCB 129536 (Cont'd)			MAIN RIGHT PCB 129535		
R183	RES MF 4.75K 1% 1/4W	144097	1	PCB Part Number	129535
R184	RES MF 4.75K 1% 1/4W	144097	2	LOGO	
R185	RES MF 2.21 OHM 1/4W 1%	144378	C1	CAP ELECT 10UF 16V 4X5 CASE T&R	066555
R186	RES MF 267K 1% 1/4W	144118	C2	CAP ELECT 47UF 35V	066446
R187	RES MF 2.21K 1% 1/4W	144298	C3	CAP MONO 47PF 200V 10% NPO	061299
R188	RES MF 267K 1% 1/4W	144118	C4	CAP MONO 47PF 200V 10% NPO	061299
R189	RES MF 2.21K 1% 1/4W	144298	C5	CAP MONO 100PF 100V 10% NPO	061300
R190	RES MF 47.5 OHM 1% 1/4W	144442	C6	CAP MONO 100PF 100V 10% NPO	061300
R191	RES MF 22.1K 1/4W	144187	C7	CAP ELECT 10UF 100VDC	066462
R193	RES MF 2.21 OHM 1/4W 1%	144378	C8	CAP ELECT 10UF 100VDC	066462
R194	RES MF 2.21 OHM 1/4W 1%	144378	C9	CAP MONO .1uF 50V 20% Z5U	061305
R196	RES MF 2.21 OHM 1/4W 1%	144378	C10	CAP MONO .1uF 50V 20% Z5U	061305
R197	RES MF 10K 1% 1/4W	144053	C11	CAP MONO 220PF 200V 10%	061301
R198	RES MF 10K 1% 1/4W	144053	C12	CAP ELECT 220UF 25V	066507
R199	RES MF 4.99K 1% 1/4W	144098	C13	CAP MONO .1uF 50V 20% Z5U	061305
R200	RES MF 22.1K 1% 1/4W	144187	C14	CAP MONO .1uF 50V 20% Z5U	061305
R201	RES MF 2.21 OHM 1/4W 1%	144378	C15	CAP POLYPROP 0.01UF 63V 1%	64444
R202	RES MF 267K 1% 1/4W	144118	C16	CAP POLYPROP 0.01UF 63V 1%	64444
R205	RES MF 22.1K 1% 1/4W	144187	C17	CAP POLYPROP .033uF 63V 1%	64446
R206	RES MF 2.21 OHM 1% 1/4W	144378	C18	CAP POLYPROP .033uF 63V 1%	64446
R207	RES MF 4.99K 1% 1/4W	144098	C19	CAP ELECT 470UF 16V	066508
R208	RES MF 1K 1% 1/4W	144090	C20	CAP ELECT 470UF 16V	066508
R209	RES MF 267K 1% 1/4W	144118	C21	CAP MPF 0.0015UF 5% 63VDC	64302
R210	RES MF 1K 1% 1/4W	144090	C22	CAP MPF 0.0015UF 5% 63VDC	64302
R211	RES MF 1K 1% 1/4W	144090	C23	CAP ELECT 10UF 16V 4X5 CASE T&R	066555
R212	RES MF 4.99K 1% 1/4W	144098	C24	CAP ELECT 10UF 16V 4X5 CASE T&R	066555
R213	RES MF 4.99K 1% 1/4W	144098	C25	CAP MONO 47PF 200V 10%	061299
R214	RES MF 2.21 OHM 1/4W 1%	144378	C26	CAP ELECT 100UF 25V	066447
R215	RES MF 182 OHM 1% 1/4W	144273	C27	CAP ELECT 10UF 16V 4X5 CASE T&R	066555
R216	RES MF 221 OHM 1% 1/4W	144172	C28	CAP MONO 100PF 100V 10%	061300
R217	RES MF 2.21 OHM 1% 1/4W	144378	C29	CAP ELECT 220UF 25V	066507
R218	RES MF 2.21K 1% 1/4W	144298	C30	CAP MONO 100PF 100V 10%	061300
R221	RES MF 221 OHM 1% 1/4W	144172	C31	CAP MONO 100PF 100V 10%	061300
R222	RES MF 6.49K .5% 1/4W	144401	C32	CAP MONO 390PF 200V 5%	61314
U1	IC OPERATIONAL AMP LOW NOISE	133067	C33	CAP ELECT 10UF 50V	066445
U2	IC OPERATIONAL AMP LOW NOISE	133067	C34	CAP ELECT 10UF 50V	066445
U3	IC OCTAL DARLNGTON TRANS ARRAY	133258(1)	C35	CAP MONO .1UF 50V 20%	061305
		178109(1)	C36	CAP MONO 100PF 100V 10%	061300
U4	IC OCTAL DARLNGTON TRANS ARRAY	133258(1)	C37	CAP ELECT 47UF 35V	066446
		178109(1)	C38	CAP MONO .1UF 50V 20%	061305
U5	IC OCTAL DARLNGTON TRANS ARRAY	133258(1)	C39	CAP ELECT 10UF 16V 4X5 CASE T&R	066555
		178109(1)	C40	CAP MONO 100PF 100V 10% NPO	061300
U6	IC OCTAL DARLNGTON TRANS ARRAY	133258(1)	C41	CAP MONO 100PF 100V 10% NPO	061300
		178109(1)	C42	CAP MONO 22PF 200V 10% NPO	061298
U7	IC SHFT REG SER-PAR	133186	C43	CAP MONO 22PF 200V 10% NPO	061298
U8	IC SHFT REG SER-PAR	133186	C44	CAP ELECT 10UF 16V 4X5 CASE T&R	066555
U9	IC SHFT REG SER-PAR	133186	C45	CAP ELECT 10UF 16V 4X5 CASE T&R	066555
U10	IC SHFT REG SER-PAR	133186	C46	CAP ELECT 10UF 16V 4X5 CASE T&R	066555
U11	IC OPERATIONAL AMP LOW NOISE	133067	C47	CAP ELECT 10UF 16V 4X5 CASE T&R	066555
U12	IC OPERATIONAL AMP LOW NOISE	133067	C48	CAP ELECT 10UF 100VDC	066462
U13	IC OPERATIONAL AMP LOW NOISE	133067	C49	CAP MONO 100PF 100V 10%	061300
U14	IC OPERATIONAL AMP LOW NOISE	133067	C50	CAP MONO .1UF 50V 20%	061305
U15	IC STEREO DGTL VOLUME CONTROL	133331	C51	CAP MONO .1UF 50V 20%	061305
U16	IC OPERATIONAL AMP LOW NOISE	133067	C52	CAP MONO 22PF 200V 10% NPO	061298
U17	IC OPERATIONAL AMP LOW NOISE	133067	C53	CAP ELECT 4.7UF 50V	066512
U18	IC REGULATOR 5V	133250	C54	CAP MONO .1UF 50V 20%	061305
U19	IC -5V REGULATOR	133253	C55	CAP ELECT 47UF 35V	066446
U20	IC SHFT REG SER-PAR	133186	C56	CAP ELECT 10UF 50V	066445
U21	IC REGULATOR 5V	133250	C57	CAP ELECT 10UF 50V	066445
U22	IC SHFT REG SER-PAR	133186	C58	CAP ELECT 10UF 50V	066445
U23	IC -5V REGULATOR	133253	C59	CAP MONO 100PF 100V 10% NPO	061300
U24	IC OPERATIONAL AMP LOW NOISE	133067	C60	CAP ELECT 10UF 50V	066445
U27	IC OPERATIONAL AMP LOW NOISE	133067	C61	CAP MONO 100PF 100V 10% NPO	061300
U28	IC OPERATIONAL AMP LOW NOISE	133067	C62	CAP MONO 22PF 200V 10% NPO	061298
U29	IC OPERATIONAL AMP LOW NOISE	133067	C63	CAP MONO 100PF 100V 10% NPO	061300
U30	IC OPERATIONAL AMP LOW NOISE	133067	C64	CAP MONO .1UF 50V 20%	061305
U31	IC OPERATIONAL AMP LOW NOISE	133067	C65	CAP ELECT 10UF 100VDC	066462
			C66	CAP ELECT 4.7UF 50V	066512
			C67	CAP MONO 22PF 200V 10% NPO	061298

PARTS LIST *Cont'd*

Ref. No.	Description	Part No.			
MAIN RIGHT PCB 129535 (Cont'd)					
C68	CAP ELECT 10UF 100VDC	066462	D1	DIODE SILICON 1N4148	061298
C69	CAP MONO .1UF 50V 20%	061305	D2	DIODE SILICON 1N4148	066445
C70	CAP ELECT 10UF 50V	066445	D3	DIODE SILICON 1N4148	061305
C71	CAP ELECT 10UF 50V	066445	D4	DIODE SILICON 1N4148	061305
C72	CAP ELECT 47UF 35V	066446	D5	DIODE SILICON 1N4148	061298
C73	CAP MONO .1UF 50V 20%	061305	D6	DIODE SILICON 1N4148	070047
C74	CAP MONO 100PF 100V 10% NPO	061300	D7	DIODE SILICON 1N4148	070047
C75	CAP MONO 100PF 100V 10% NPO	061300	D8	DIODE SILICON 1N4148	070047
C76	CAP MONO .1UF 50V 20%	061305	D9	DIODE SILICON	070047
C77	CAP MONO .1UF 50V 20%	061305	D10	DIODE SILICON	070047
C78	CAP MONO 22PF 200V 10% NPO	061298	D11	DIODE SILICON	070047
C79	CAP ELECT 10UF 50V	066445	D13	DIODE SILICON	070047
C80	CAP MONO .1UF 50V 20%	061305	GP1	BRACKET PCB CARD MOUNTING	3611
C81	CAP ELECT 10UF 50V	066445	GP2	BRACKET PCB CARD MOUNTING	3611
C82	CAP MONO .1UF 50V 20%	061305	J1	JACK PHONO GOLD	117862
C83	CAP ELECT 10UF 50V	066445	J2	JACK PHONO GOLD	117862
C84	CAP MONO 22PF 200V 10% NPO	061298	J3	JACK PHONO GOLD	117862
C85	CAP ELECT 10UF 50V	066445	J4	JACK PHONO GOLD	117862
C86	CAP ELECT 10UF 50V	066445	J5	JACK PHONO GOLD	117862
C87	CAP ELECT 10UF 50V	066445	J6	JACK PHONO GOLD	117862
C88	CAP ELECT 47UF 35V	066446	J7	JACK PHONO GOLD	117862
C89	CAP MONO 100PF 100V 10% NPO	061300	J8	CONN 12 PIN FFC	117720
C90	CAP MONO 100PF 100V 10% NPO	061300	J9	HEADER SHROUDED 2ROW 26PIN V	117870
C92	CAP MONO 220PF 100V 10% NPO	061301	J10	HEADER 2 PIN LATCHING	117766
C93	CAP MONO .1UF 50V 20%	061305	J11	CONN 12 PIN FFC	117720
C95	CAP MONO 22PF 200V 10%	061298	J12	CONN 12 PIN FFC	117720
C96	CAP MONO 22PF 200V 10%	061298	J13	HEADER 2 PIN LATCHING	117766
C97	CAP ELECT 100UF 25V	066447	J14	CONN 12 PIN FFC	117720
C98	CAP MONO 22PF 200V 10%	061298	J15	HEADER 2 PIN LATCHING	117766
C99	CAP ELECT 22UF 100V	066506	K1	RELAY REED FORM 1A 5V 500 OHMS	87050
C100	CAP ELECT 100UF 25V	066447	K2	RELAY REED FORM 1A 5V 500 OHMS	87050
C102	CAP ELECT 22UF 100V	066506	K3	RELAY REED FORM 1A 5V 500 OHMS	87050
C103	CAP MONO 1000PF 50V 10%	061303	K4	RELAY REED FORM 1A 5V 500 OHMS	87050
C104	CAP MONO 1000PF 50V 10%	061303	K5	RELAY REED FORM 1C 5V 125 OHM	87056
C105	CAP MONO 1000PF 50V 10%	061303	K6	RELAY REED FORM 1A 5V 500 OHMS	87050
C106	CAP MONO 1000PF 50V 10%	061303	K7	RELAY REED FORM 1A 5V 500 OHMS	87050
C107	CAP ELECT 100UF 25V	066447	K8	RELAY REED FORM 1A 5V 500 OHMS	87050
C108	CAP MONO 22PF 200V 10%	061298	K9	RELAY REED FORM 1A 5V 500 OHMS	87050
C109	CAP ELECT 100UF 25V	066447	K10	RELAY REED FORM 1A 5V 500 OHMS	87050
C110	CAP MONO 22PF 200V 10%	061298	K11	RELAY REED FORM 1A 5V 500 OHMS	87050
C111	CAP ELECT 22UF 100V	066506	K12	RELAY REED FORM 1A 5V 500 OHMS	87050
C112	CAP ELECT 22UF 100V	066506	K13	RELAY REED FORM 1A 5V 500 OHMS	87050
C113	CAP MONO 22PF 200V 10% NPO	061298	K14	RELAY REED FORM 1A 5V 500 OHMS	87050
C114	CAP MONO 22PF 200V 10%	061298	K15	RELAY REED FORM 1C 5V 125 OHM	87056
C115	CAP MONO .1UF 50V 20%	061305	K16	RELAY REED FORM 1A 5V 500 OHMS	87050
C116	CAP MONO .1UF 50V 20%	061305	K17	RELAY REED FORM 1C 5V 125 OHM	87056
C117	CAP ELECT 10UF 16V 4X5 CASE T&R	066555	K18	RELAY REED FORM 1A 5V 500 OHMS	87050
C118	CAP MONO .1UF 50V 20%	061305	K19	RELAY REED FORM 1A 5V 500 OHMS	87050
C119	CAP MONO .1UF 50V 20%	061305	K20	RELAY REED FORM 1A 5V 500 OHMS	87050
C120	CAP MONO .1UF 50V 20%	061305	K21	RELAY REED FORM 1A 5V 500 OHMS	87050
C121	CAP MONO .1UF 50V 20%	061305	K22	RELAY REED FORM 1A 5V 500 OHMS	87050
C123	CAP ELECT 10UF 50V	066445	K23	RELAY REED FORM 1A 5V 500 OHMS	87050
C124	CAP ELECT 10UF 50V	066445	K24	RELAY REED FORM 1A 5V 500 OHMS	87050
C128	CAP MONO 22PF 200V 10% NPO	061298	K25	RELAY REED FORM 1A 5V 500 OHMS	87050
C129	CAP MONO 100PF 100V 10% NPO	061300	MC1		50104
C130	CAP MONO 22PF 200V 10% NPO	061298	Q1	TRANSISTOR NPN	132223
C131	CAP MONO 22PF 200V 10% NPO	061298	Q2	TRANSISTOR SI NPN 25V	132254
C132	CAP ELECT 10UF 100VDC	066462	Q3	TRANSISTOR SI NPN 25V	132254
C133	CAP MONO 100PF 100V 10% NPO	061300	Q4	TRANSISTOR SI NPN 25V	132254
C134	CAP MONO 22PF 200V 10% NPO	061298	Q5	TRANSISTOR PNP POWER	132255
C135	CAP ELECT 10UF 16V 4X5 CASE T&R	066555	Q6	TRANSISTOR NPN	132262
C136	CAP MONO .1UF 50V 20%	061305	Q7	TRANSISTOR NPN	132223
C138	CAP MONO 100PF 100V 10% NPO	061300	Q8	TRANSISTOR PNP	132224
C139	CAP MONO .1UF 50V 20%	061305	Q9	TRANSISTOR PNP	132261
C140	CAP MONO .1UF 50V 20%	061305	Q10	TRANSISTOR PNP POWER	132255
C142	CAP ELECT 10UF 16V 4X5 CASE T&R	066555	Q11	TRANSISTOR PNP POWER	132255
C143	CAP ELECT 10UF 100VDC	066462	Q12	TRANSISTOR PNP POWER	132255

Ref. No.	Description	Part No.		
MAIN RIGHT PCB 129535 (Cont'd)				
Q13	TRANSISTOR SI NPN 25V	132254	R26	RES MF 1K 1% 1/4W 144090
Q14	TRANSISTOR PNP	132224	R27	RES MF 1K 1% 1/4W 144090
Q15	TRANSISTOR PNP	132224	R28	RES MF 1K 1% 1/4W 144090
Q16	TRANSISTOR PNP	132224	R29	RES MF 4.75K 1% 1/4W 144097
Q17	TRANSISTOR PNP	132224	R30	RES MF 267K 1% 1/4W 144118
Q18	TRANSISTOR PNP	132224	R31	RES MF 4.75K 1% 1/4W 144097
Q19	TRANSISTOR N JFET	132222	R32	RES MF 4.75K 1% 1/4W 144097
Q20	TRANSISTOR N JFET	132222	R33	RES MF 100 OHM 1% 1/4W 144196
Q21	TRANSISTOR N JFET	132222	R34	RES MF 1.82K 1% 1/4W 144296
Q22	TRANSISTOR N JFET	132222	R35	RES MF 1.82K 1% 1/4W 144296
Q23	TRANSISTOR NPN	132223	R36	RES MF 267K 1% 1/4W 144118
Q24	TRANSISTOR SI NPN 25V	132254	R37	RES MF 182 OHM 1% 1/4W 144273
Q25	TRANSISTOR SI NPN 25V	132254	R38	RES MF 22.1 OHM 1% 1/4W 144160
Q26	TRANSISTOR SI NPN 25V	132254	R39	RES MF 22.1 OHM 1% 1/4W 144160
Q27	TRANSISTOR PNP POWER	132255	R40	RES MF 2.21K 1% 1/4W 144298
Q28	TRANSISTOR NPN	132262	R41	RES MF 20K 1% 1/4W 144104
Q29	TRANSISTOR NPN	132223	R42	RES MF 6.49K .5% 1/4W 144401
Q30	TRANSISTOR PNP	132224	R43	RES MF 20K 1% 1/4W 144104
Q31	TRANSISTOR PNP	132261	R44	RES MF 22.1K 1% 1/4W 144187
Q32	TRANSISTOR PNP POWER	132255	R45	RES MET OX 430 OHM .5W 5% 137095
Q33	TRANSISTOR PNP POWER	132255	R46	RES MET OX 430 OHM .5W 5% 137095
Q34	TRANSISTOR PNP POWER	132255	R50	RES MF 100K 1% 1/4W 144113
Q35	TRANSISTOR SI NPN 25V	132254	R51	RES MF 33.2K 1% 1/4W 144015
Q36	TRANSISTOR PNP	132224	R52	RES MF 1K 1% 1/4W 144090
Q37	TRANSISTOR NPN	132223	R53	RES MF 4.99K 1% 1/4W 144098
Q38	TRANSISTOR SI NPN 25V	132254	R54	RES MF 4.99K 1% 1/4W 144098
Q39	TRANSISTOR SI NPN 25V	132254	R55	RES MF 2.21 OHM 1/4W 1% 144378
Q40	TRANSISTOR PNP POWER	132255	R56	RES MF 2.21 OHM 1/4W 1% 144378
Q41	TRANSISTOR SI NPN 25V	132254	R59	RES MF 47.5K 1% 1/4W 144108
Q42	TRANSISTOR NPN	132262	R60	RES MF 47.5K 1% 1/4W 144108
Q43	TRANSISTOR NPN	132223	R61	RES MF 47.5K 1% 1/4W 144108
Q44	TRANSISTOR PNP	132224	R62	RES MF 47.5K 1% 1/4W 144108
Q45	TRANSISTOR PNP	132261	R63	RES MF 10 OHM 1% 1/4W 144157
Q46	TRANSISTOR NPN	132223	R64	RES MF 10 OHM 1% 1/4W 144157
Q47	TRANSISTOR PNP POWER	132255	R65	RES MF 47.5K 1% 1/4W 144108
Q48	TRANSISTOR SI NPN 25V	132254	R66	RES MF 47.5K 1% 1/4W 144108
Q49	TRANSISTOR PNP POWER	132255	R67	RES MF 2.21 OHM 1/4W 1% 144378
Q50	TRANSISTOR PNP POWER	132255	R69	RES MF 1K 1% 1/4W 144090
Q51	TRANSISTOR NPN	132223	R70	RES MF 221 OHM 1% 1/4W 144172
Q52	TRANSISTOR PNP	132224	R71	RES MF 33.2K 1% 1/4W 144015
Q53	TRANSISTOR NPN	132223	R72	RES MF 681 OHM 1% 1/4W 144195
Q54	TRANSISTOR NPN	132223	R74	RES MF 267K 1% 1/4W 144118
Q55	TRANSISTOR NPN	132223	R75	RES MF 2.21 OHM 1/4W 1% 144378
Q56	TRANSISTOR NPN	132223	R76	RES MF 1.21K 1% 1/4W 144191
Q61	TRANSISTOR NPN	132223	R77	RES MF 4.99K 1% 1/4W 144098
R1	RES MF 1K 1% 1/4W	144090	R79	RES MF 1K 1% 1/4W 144090
R2	RES MF 1K 1% 1/4W	144090	R80	RES MF 681 OHM 1% 1/4W 144195
R3	RES MF 47.5K 1% 1/4W	144108	R81	RES MF 33.2K 1% 1/4W 144015
R4	RES MF 22.1K 1% 1/4W	144187	R83	RES MF 1.21K 1% 1/4W 144191
R5	RES MF 2.21 OHM 1/4W 1%	144378	R84	RES MF 267K 1% 1/4W 144118
R6	RES MF 2.21 OHM 1/4W 1%	144378	R86	RES MF 4.75K 1% 1/4W 144097
R7	RES MF 2.21 OHM 1/4W 1%	144378	R87	RES MF 365 OHM 1% 1/4W 144071
R8	RES MF 2.21 OHM 1/4W 1%	144378	R88	RES MF 47.5K 1% 1/4W 144108
R9	RES MF 7.5K OHM 1/4W 0.5%	144376	R90	RES MF 1.5K 1% 1/4W 144128
R10	RES MF 7.5K OHM 1/4W 0.5%	144376	R92	RES MF 100K 1% 1/4W 144113
R11	RES MF 89.8K 1/4W 0.5%	144377	R93	RES MF 10 OHM 1% 1/4W 144157
R12	RES MF 89.8K 1/4W 0.5%	144377	R94	RES MF 2.74K 1% 1/4W 144304
R13	RES MF 95.3 OHM 1% 1/4W	144220	R95	RES MF 200K 1% 1/4W 144117
R14	RES MF 182 OHM 1% 1/4W	144273	R96	RES MF 1.5K 1% 1/4W 144128
R15	RES MF 499 OHM 1% 1/4W	144087	R97	RES MF 47.5 OHM 1% 1/4W 144442
R16	RES MF 499 OHM 1% 1/4W	144087	R98	RES MF 10 OHM 1% 1/4W 144157
R17	RES MF 100K 1% 1/4W	144113	R99	RES MF 33.2K 1% 1/4W 144015
R18	RES MF 10K 1% 1/4W	144053	R100	RES MF 221K 1% 1/4W 144421
R19	RES MF 100K 1% 1/4W	144113	R101	RES MF 4.75K 1% 1/4W 144097
R20	RES MF 10K 1% 1/4W	144053	R102	RES MF 221K 1% 1/4W 144421
R21	RES MF 100K 1% 1/4W	144113	R103	RES MF 221K 1% 1/4W 144421
R22	RES MF 100K 1% 1/4W	144113	R104	RES MF 221K 1% 1/4W 144421
R23	RES MF 10K 1% 1/4W	144053	R105	RES MF 365 OHM 1% 1/4W 144071
R24	RES MF 10K 1% 1/4W	144053	R106	RES FP 10 OHM 5% 1/4W 137025
R25	RES MF 1K 1% 1/4W	144090	R107	RES MF 5.36K .5% 1/4W 144399
			R108	RES MF 3.79k .1% 144398
			R109	RES MF 47.5K 1% 1/4W 144108

PARTS LIST Cont'd

Ref. No.	Description	Part No.			
MAIN RIGHT PCB 129535 (Cont'd)					
R110	RES MF 2.67K .5%	144397	R180	RES MF 1K 1% 1/4W	144090
R111	RES MF 1.91K .5% 1/4W	144395	R181	RES MF 1K 1% 1/4W	144090
R112	RES FP 10 OHM 5% 1/4W	137025	R182	RES MF 1K 1% 1/4W	144090
R113	RES MF 11K 1% 1/4W	144101	R183	RES MF 4.75K 1% 1/4W	144097
R114	RES MF 475K 1% 1/4W	144364	R184	RES MF 4.75K 1% 1/4W	144097
R115	RES MF 475K 1% 1/4W	144364	R185	RES MF 2.21 OHM 1/4W 1%	144378
R116	RES MF 475K 1% 1/4W	144364	R186	RES MF 267K 1% 1/4W	144118
R117	RES MF 475K 1% 1/4W	144364	R187	RES MF 2.21K 1% 1/4W	144298
R118	RES MF 4.75K 1% 1/4W	144097	R188	RES MF 267K 1% 1/4W	144118
R119	RES MF 1M 1/4W	144269	R189	RES MF 2.21K 1% 1/4W	144298
R120	RES MF 1M 1/4W	144269	R190	RES MF 47.5 OHM 1% 1/4W	144442
R121	RES MF 1M 1/4W	144269	R191	RES MF 22.1K 1% 1/4W	144187
R122	RES MF 1M 1/4W	144269	R193	RES MF 2.21 OHM 1/4W 1%	144378
R123	RES MF 11K 1% 1/4W	144101	R194	RES MF 2.21 OHM 1/4W 1%	144378
R124	RES MF 5.36K .5% 1/4W	144399	R196	RES MF 2.21 OHM 1/4W 1%	144378
R125	RES MF 3.79K .1%	144398	R197	RES MF 10K 1% 1/4W	144053
R126	RES MF 2.67K .5%	144397	R198	RES MF 10K 1% 1/4W	144053
R127	RES MF 1.91K .5% 1/4W	144395	R199	RES MF 4.99K 1% 1/4W	144098
R128	RES MF 365 OHM 1% 1/4W	144071	R200	RES MF 22.1K 1% 1/4W	144187
R130	RES MF 1.5K 1% 1/4W	144128	R201	RES MF 2.21 OHM 1/4W 1%	144378
R132	RES MF 10 OHM 1% 1/4W	144157	R202	RES MF 267K 1% 1/4W	144118
R133	RES MF 100K 1% 1/4W	144113	R205	RES MF 22.1K 1% 1/4W	144187
R134	RES MF 2.74K 1% 1/4W	144304	R206	RES MF 2.21 OHM 1/4W 1	144378
R135	RES MF 200K 1% 1/4W	144117	R207	RES MF 4.99K 1% 1/4W	144098
R136	RES MF 1.5K 1% 1/4W	144128	R208	RES MF 1K 1% 1/4W	144090
R137	RES MF 10 OHM 1% 1/4W	144157	R209	RES MF 267K 1% 1/4W	144118
R138	RES MF 47.5 OHM 1% 1/4W	144442	R210	RES MF 1K 1% 1/4W	144090
R139	RES MF 33.2K 1% 1/4W	144015	R211	RES MF 1K 1% 1/4W	144090
R140	RES MF 4.75K 1% 1/4W	144097	R212	RES MF 4.99K 1% 1/4W	144098
R141	RES MF 365 OHM 1% 1/4W	144071	R213	RES MF 4.99K 1% 1/4W	144098
R142	RES MET OX 47 OHM .5W 5%	137096	R214	RES MF 2.21 OHM 1/4W 1%	144378
R144	RES MET OX 47 OHM .5W 5%	137096	R215	RES MF 182 OHM 1% 1/4W	144273
R145	RES MF 4.75K 1% 1/4W	144097	R216	RES MF 221 OHM 1% 1/4W	144172
R146	RES MF 365 OHM 1% 1/4W	144071	R217	RES MF 2.21 OHM 1/4W 1	144378
R147	RES MF 3.32K 1% 1/4W	144095	R218	RES MF 2.21K 1% 1/4W	144298
R148	RES MF 182 OHM 1% 1/4W	144273	R221	RES MF 221 OHM 1% 1/4W	144172
R149	RES MF 2.21K 1% 1/4W	144298	R222	RES MF 6.49K .5% 1/4W	144401
R150	RES MF 1.65K 1% 1/4W	144093	U1	IC OPERATIONAL AMP LOW NOISE	133067
R151	RES MF 22.1K 1% 1/4W	144187	U2	IC OPERATIONAL AMP LOW NOISE	133067
R152	RES MF 22.1 OHM 1% 1/4W	144160	U3	IC OCTAL DARLINGTON TRANS ARRAY	133258(1)
R153	RES MF 182 OHM 1% 1/4W	144273			178109(1)
R154	RES MF 3.32K 1% 1/4W	144095	U4	IC OCTAL DARLINGTON TRANS ARRAY	133258(1)
R155	RES MF 1.65K 1% 1/4W	144093			178109(1)
R156	RES MF 100K 1% 1/4W	144113	U5	IC OCTAL DARLINGTON TRANS ARRAY	133258(1)
R157	RES MF 47.5 OHM 1% 1/4W	144442			178109(1)
R158	RES MF 22.1 OHM 1% 1/4W	144160	U6	IC OCTAL DARLINGTON TRANS ARRAY	133258(1)
R159	RES MF 200K 1% 1/4W	144117			178109(1)
R160	RES MF 182 OHM 1% 1/4W	144273	U7	IC SHFT REG SER-PAR	133186
R161	RES MF 2.21K 1% 1/4W	144298	U8	IC SHFT REG SER-PAR	133186
R162	RES MF 47.5 OHM 1% 1/4W	144442	U9	IC SHFT REG SER-PAR	133186
R163	RES MF 365 OHM 1% 1/4W	144071	U10	IC SHFT REG SER-PAR	133186
R165	RES MF 4.75K 1% 1/4W	144097	U11	IC OPERATIONAL AMP LOW NOISE	133067
R166	RES MF 10K 1% 1/4W	144053	U12	IC OPERATIONAL AMP LOW NOISE	133067
R167	RES MF 2.21 OHM 1/4W 1%	144378	U13	IC OPERATIONAL AMP LOW NOISE	133067
R168	RES MF 2.21 OHM 1/4W 1%	144378	U14	IC OPERATIONAL AMP LOW NOISE	133067
R170	RES MF 100K 1% 1/4W	144113	U15	IC STEREO DGTL VOLUME CONTROL	133331
R171	RES MF 4.75K 1% 1/4W	144097	U16	IC OPERATIONAL AMP LOW NOISE	133067
R172	RES MF 267K 1% 1/4W	144118	U17	IC OPERATIONAL AMP LOW NOISE	133067
R173	RES MF 182 OHM 1% 1/4W	144273	U18	IC REGULATOR 5V	133250
R174	RES MF 4.75K 1% 1/4W	144097	U19	IC -5V REGULATOR	133253
R175	RES MF 4.75K 1% 1/4W	144097	U20	IC SHFT REG SER-PAR	133186
R176	RES MF 4.75K 1% 1/4W	144097	U21	IC REGULATOR 5V	133250
R177	RES MF 1K 1% 1/4W	144090	U22	IC SHFT REG SER-PAR	133186
R178	RES MF 1K 1% 1/4W	144090	U23	IC -5V REGULATOR	133253
R179	RES MF 1K 1% 1/4W	144090	U24	IC OPERATIONAL AMP LOW NOISE	133067
			U27	IC OPERATIONAL AMP LOW NOISE	133067
			U28	IC OPERATIONAL AMP LOW NOISE	133067
			U29	IC OPERATIONAL AMP LOW NOISE	133067
			U30	IC OPERATIONAL AMP LOW NOISE	133067
			U31	IC OPERATIONAL AMP LOW NOISE	133067

Ref. No.	Description	Part No.	J4	RECEPTACLE XLR MALE	117669
PHONO MC PCB 129537			J5	XLR FEMALE OR MALE	117813 or 117669
1	PCB Part Number	129537	J6	TERMINAL STRIP 14 PIN .025 SQ socket	117647(1) 117644(1)
2	LOGO		J7	TERMINAL STRIP 14 PIN .025 SQ socket	117647(1) 117644(1)
C1	CAP MONO 1000PF 50V 10%	061303	J8	RECEPTACLE XLR MALE	117669
C2	CAP MONO 1000PF 50V 10%	061303	J9	RECEPTACLE XLR MALE	117669
C3	CAP ELECT 1000UF 10V 10X12.5	66309	J10	RECEPTACLE XLR MALE	117669
C4	CAP ELECT 1000UF 10V 10X12.5	66309	J11	CONN 12 PIN FFC	117720
C5	CAP MONO 1000PF 50V 10%	061303	K1	RELAY REED FORM 1C 5V 125 OHM	87056
C6	CAP MONO 22PF 200V 10% NPO	061298	K2	RELAY REED FORM 1A 5V 500 OHMS	87050
C7	CAP ELECT 10UF 50V	066445	K3	RELAY REED FORM 1A 5V 500 OHMS	87050
C8	CAP MONO .1UF 50V 20%	061305	K4	RELAY REED FORM 1A 5V 500 OHMS	87050
C9	CAP MONO .1UF 50V 20%	061305	K5	RELAY REED FORM 1A 5V 500 OHMS	87050
C10	CAP MONO 100PF 100V 10%	061300	K6	RELAY REED FORM 1A 5V 500 OHMS	87050
J1	6 PIN HEADER	117828	K7	RELAY REED FORM 1A 5V 500 OHMS	87050
J2	10 PIN HEADER	117829	K8	RELAY REED FORM 1A 5V 500 OHMS	87050
Q1	TRANSISTOR NPN	132257	K9	RELAY REED FORM 1A 5V 500 OHMS	87050
Q2	TRANSISTOR NPN	132257	K10	RELAY REED FORM 1A 5V 500 OHMS	87050
Q3	TRANSISTOR NPN	132257	K11	RELAY REED FORM 1A 5V 500 OHMS	87050
Q4	TRANSISTOR NPN	132257	K12	RELAY REED FORM 1A 5V 500 OHMS	87050
Q5	TRANSISTOR PNP SILICON	132172	K13	RELAY REED FORM 1A 5V 500 OHMS	87050
Q6	TRANSISTOR NPN SILICON	132171	R1	RES MF 267K 1% 1/4W	144118
Q7	TRANSISTOR PNP SILICON	132172	R2	RES MF 267K 1% 1/4W	144118
Q8	TRANSISTOR NPN SILICON	132171	R3	RES MF 267K 1% 1/4W	144118
Q9	TRANSISTOR PNP SILICON	132172	R4	RES MF 47.5 OHM 1% 1/4W	144442
Q10	TRANSISTOR NPN SILICON	132171	R5	RES MF 47.5 OHM 1% 1/4W	144442
Q11	TRANSISTOR PNP SILICON	132172	R6	RES MF 22.1K 1% 1/4W	144187
Q12	TRANSISTOR NPN SILICON	132171	R7	RES MF 22.1K 1% 1/4W	144187
Q13	TRANSISTOR PNP SILICON	132172	R8	RES MF 267K 1% 1/4W	144118
Q14	TRANSISTOR NPN SILICON	132171	R9	RES MF 267K 1% 1/4W	144118
R1	RES MF 1K 1% 1/4W	144090	R10	RES MF 267K 1% 1/4W	144118
R2	RES MF 110 OHM 1% 1/4W	144489	R11	RES MF 221 OHM 1% 1/4W	144172
R3	RES MF 1K 1% 1/4W	144090	R12	RES MF 221 OHM 1% 1/4W	144172
R4	RES MF 4.75K 1% 1/4W	144097	R13	RES MF 221 OHM 1% 1/4W	144172
R5	RES MF 4.75K 1% 1/4W	144097	R14	RES MF 221 OHM 1% 1/4W	144172
R6	RES MF 51.1 OHM 2% 1/4W	144134	R15	RES MF 221 OHM 1% 1/4W	144172
R7	RES MF 249 OHM 1% 1/4W	144228	R16	RES MF 221 OHM 1% 1/4W	144172
R8	RES MF 4.75K 1% 1/4W	144097	R17	RES MF 22.1K 1% 1/4W	144187
R9	RES MF 4.75K 1% 1/4W	144097	R18	RES MF 22.1K 1% 1/4W	144187
R10	RES MF 1.5K 1% 1/4W	144128	R19	RES MF 22.1K 1% 1/4W	144187
R11	RES MF 22.1 OHM 1% 1/4W	144160	R20	RES MF 22.1K 1% 1/4W	144187
R12	RES MF 22.1 OHM 1% 1/4W	144160	R21	RES MF 22.1K 1% 1/4W	144187
R13	RES MF 1.5K 1% 1/4W	144128	R22	RES MF 22.1K 1% 1/4W	144187
R14	RES MF 475 OHM 1% 1/4W	144086			
R15	RES MF 475 OHM 1% 1/4W	144086			
R16	RES MF 2.21K 1% 1/4W	144298			
R17	RES MF 2.21 OHM 1/4W 1%	144378			
R18	RES MF 2.21 OHM 1/4W 1%	144378			
U1	IC OPERATIONAL AMP LOW NOISE	133067			
Ref. No.	Description	Part No.	Ref. No.	Description	Part No.
BALANCE I/O LEFT PCB 129538			BALANCE I/O RIGHT PCB 129540		
1	PCB Part Number	129538	1	PCB Part Number	129540
2	LOGO		2	LOGO	
C1	CAP ELECT 10UF 16V 4X5 CASE T&R	066555	C1	CAP ELECT 10UF 16V 4X5 CASE T&R	066555
C2	CAP ELECT 10UF 16V 4X5 CASE T&R	066555	C2	CAP ELECT 10UF 16V 4X5 CASE T&R	066555
C3	CAP ELECT 10UF 16V 4X5 CASE T&R	066555	C3	CAP ELECT 10UF 16V 4X5 CASE T&R	066555
C4	CAP ELECT 10UF 16V 4X5 CASE T&R	066555	C4	CAP ELECT 10UF 16V 4X5 CASE T&R	066555
C5	CAP ELECT 10UF 16V 4X5 CASE T&R	066555	C5	CAP ELECT 10UF 16V 4X5 CASE T&R	066555
C6	CAP ELECT 10UF 16V 4X5 CASE T&R	066555	C6	CAP ELECT 10UF 16V 4X5 CASE T&R	066555
C7	CAP ELECT 47UF 16V 6.3X5 CASE	066380	C7	CAP ELECT 47UF 16V 6.3X5 CASE	066380
C8	CAP ELECT 47UF 16V 6.3X5 CASE	066380	C8	CAP ELECT 47UF 16V 6.3X5 CASE	066380
C9	CAP ELECT 47UF 16V 6.3X5 CASE	066380	C9	CAP ELECT 47UF 16V 6.3X5 CASE	066380
C10	CAP ELECT 47UF 16V 6.3X5 CASE	066380	C10	CAP ELECT 47UF 16V 6.3X5 CASE	066380
C11	CAP ELECT 47UF 16V 6.3X5 CASE	066380	C11	CAP ELECT 47UF 16V 6.3X5 CASE	066380
C12	CAP ELECT 47UF 16V 6.3X5 CASE	066380	C12	CAP ELECT 47UF 16V 6.3X5 CASE	066380
D1	DIODE SILICON 1N4148	070047	D1	DIODE SILICON 1N4148	070047
D2	DIODE SILICON 1N4148	070047	D2	DIODE SILICON 1N4148	070047
D3	DIODE SILICON 1N4148	070047	D3	DIODE SILICON 1N4148	070047
J1	XLR FEMALE VERTICAL WITH LATCH	117813	J1	XLR FEMALE VERTICAL WITH LATCH	117813
J2	XLR FEMALE VERTICAL WITH LATCH	117813	J2	XLR FEMALE VERTICAL WITH LATCH	117813
J3	XLR FEMALE VERTICAL WITH LATCH	117813	J3	XLR FEMALE VERTICAL WITH LATCH	117813
			J4	RECEPTACLE XLR MALE	117669
			J5	XLR FEMALE OR MALE	117813 or 117669

PARTS LIST Cont'd

Ref. No. Description

BALANCE I/O RIGHT PCB 129540 (Cont'd)

Ref. No.	Description	Part No.
J6	TERMINAL STRIP 14 PIN .025 SQ socket	117647(1)
J7	TERMINAL STRIP 14 PIN .025 SQ socket	117644(1)
J8	RECEPTACLE XLR MALE	117647(1)
J9	RECEPTACLE XLR MALE	117669
J10	RECEPTACLE XLR MALE	117669
J11	CONN 12 PIN FFC	117720
K1	RELAY REED FORM 1C 5V 125 OHM	87056
K2	RELAY REED FORM 1A 5V 500 OHMS	87050
K3	RELAY REED FORM 1A 5V 500 OHMS	87050
K4	RELAY REED FORM 1A 5V 500 OHMS	87050
K5	RELAY REED FORM 1A 5V 500 OHMS	87050
K6	RELAY REED FORM 1A 5V 500 OHMS	87050
K7	RELAY REED FORM 1A 5V 500 OHMS	87050
K8	RELAY REED FORM 1A 5V 500 OHMS	87050
K9	RELAY REED FORM 1A 5V 500 OHMS	87050
K10	RELAY REED FORM 1A 5V 500 OHMS	87050
K11	RELAY REED FORM 1A 5V 500 OHMS	87050
K12	RELAY REED FORM 1A 5V 500 OHMS	87050
K13	RELAY REED FORM 1A 5V 500 OHMS	87050
R1	RES MF 267K 1% 1/4W	144118
R2	RES MF 267K 1% 1/4W	144118
R3	RES MF 267K 1% 1/4W	144118
R4	RES MF 47.5 OHM 1% 1/4W	144442
R5	RES MF 47.5 OHM 1% 1/4W	144442
R6	RES MF 22.1K 1% 1/4W	144187
R7	RES MF 22.1K 1% 1/4W	144187
R8	RES MF 267K 1% 1/4W	144118
R9	RES MF 267K 1% 1/4W	144118
R10	RES MF 267K 1% 1/4W	144118
R11	RES MF 221 OHM 1% 1/4W	144172
R12	RES MF 221 OHM 1% 1/4W	144172
R13	RES MF 221 OHM 1% 1/4W	144172
R14	RES MF 221 OHM 1% 1/4W	144172
R15	RES MF 221 OHM 1% 1/4W	144172
R16	RES MF 221 OHM 1% 1/4W	144172
R17	RES MF 22.1K 1% 1/4W	144187
R18	RES MF 22.1K 1% 1/4W	144187
R19	RES MF 22.1K 1% 1/4W	144187
R20	RES MF 22.1K 1% 1/4W	144187
R21	RES MF 22.1K 1% 1/4W	144187
R22	RES MF 22.1K 1% 1/4W	144187

Ref. No. Description

BALANCE SWITCHING LEFT PCB 129541

Ref. No.	Description	Part No.
1	PCB Part Number	129541
2	LOGO	
C1	CAP ELECT 10UF 50V	066445
C2	CAP MONO 100PF 100V 10% NPO	061300
C3	CAP MONO 100PF 100V 10% NPO	061300
C4	CAP MONO 22PF 200V 10% NPO	061298
C5	CAP MONO 22PF 200V 10% NPO	061298
C6	CAP ELECT 10UF 100VDC	066462
C10	CAP MONO .1uF 50V 20% Z5U	061305
C11	CAP MONO .1uF 50V 20% Z5U	061305
C14	CAP ELECT 47UF 35V	066446
C15	CAP ELECT 47UF 35V	066446
C16	CAP ELECT 47UF 35V	066446
C17	CAP MONO .1uF 50V 20% Z5U	061305
C18	CAP MONO .1uF 50V 20% Z5U	061305
C19	CAP ELECT 10UF 100VDC	066462
C21	CAP MONO 22PF 200V 10% NPO	061298
C22	CAP ELECT 47UF 35V	066446
C23	CAP MONO .1uF 50V 20% Z5U	061305
C24	CAP MONO .1uF 50V 20% Z5U	061305
C25	CAP ELECT 10UF 100VDC	066462
C27	CAP MONO 22PF 200V 10% NPO	061298

C30	CAP MONO 100PF 100V 10% NPO	061300
C31	CAP MONO .1uF 50V 20% Z5U	061305
C32	CAP MONO .1uF 50V 20% Z5U	061305
C35	CAP ELECT 10UF 100VDC	066462
C37	CAP MONO 100PF 100V 10% NPO	061300
C38	CAP MONO 22PF 200V 10% NPO	061298
C39	CAP MONO 22PF 200V 10% NPO	061298
C40	CAP MONO 100PF 100V 10% NPO	061300
C41	CAP MONO 100PF 100V 10% NPO	061300
C42	CAP MONO 100PF 100V 10% NPO	061300
C43	CAP MONO 100PF 100V 10% NPO	061300
C44	CAP ELECT 10UF 50V	066445
C45	CAP ELECT 10UF 50V	066445
C46	CAP ELECT 10UF 50V	066445
D1	DIODE SILICON 1N4148	070047
IC1	IC OPERATIONAL AMP LOW NOISE	133067
IC2	IC OPERATIONAL AMP LOW NOISE	133067
IC3	IC OPERATIONAL AMP LOW NOISE	133067
IC4	IC OPERATIONAL AMP LOW NOISE	133067
IC5	IC OPERATIONAL AMP LOW NOISE	133067
IC6	IC OPERATIONAL AMP LOW NOISE	133067
J1	CONN 12 PIN FFC	117720
J2	CONN 12 PIN FFC	117720
J3	SOCKET STRIP 14 PIN .025 SQ	117644
J4	SOCKET STRIP 14 PIN .025 SQ	117644
K1	RELAY REED FORM 1A 5V 500 OHMS	87050
K2	RELAY REED FORM 1A 5V 500 OHMS	87050
K3	RELAY REED FORM 1A 5V 500 OHMS	87050
K4	RELAY REED FORM 1A 5V 500 OHMS	87050
K5	RELAY REED FORM 1A 5V 500 OHMS	87050
K6	RELAY REED FORM 1A 5V 500 OHMS	87050
K7	RELAY REED FORM 1C 5V 125 OHM	87056
R1	RES MF 47.5K 1% 1/4W	144108
R2	RES MF 1K 1% 1/4W	144090
R3	RES MF 10K 1% 1/4W	144053
R4	RES MF 10K 1% 1/4W	144053
R5	RES MF 2.21 OHM 1/4W 1%	144378
R6	RES MF 2.21 OHM 1/4W 1%	144378
R9	RES MF 47.5 OHM 1% 1/4W	144442
R10	RES MF 47.5K 1% 1/4W	144108
R11	RES MF 2.21 OHM 1/4W 1%	144378
R12	RES MF 2.21 OHM 1/4W 1%	144378
R13	RES MF 47.5 OHM 1% 1/4W	144442
R14	RES MF 47.5K 1% 1/4W	144108
R15	RES MF 4.99K 1% 1/4W	144098
R16	RES MF 4.99K 1% 1/4W	144098
R17	RES MF 2.21 OHM 1/4W 1%	144378
R18	RES MF 2.21 OHM 1/4W 1%	144378
R19	RES MF 10K 1% 1/4W	144053
R20	RES MF 10K 1% 1/4W	144053
R23	RES MF 2.21 OHM 1/4W 1%	144378
R24	RES MF 2.21 OHM 1/4W 1%	144378
R25	RES MF 1K 1% 1/4W	144090
R26	RES MF 267K 1% 1/4W	144118
R27	RES MF 267K 1% 1/4W	144118
R28	RES MF 267K 1% 1/4W	144118
R29	RES MF 1K 1% 1/4W	144090
R30	RES MF 1K 1% 1/4W	144090

Ref. No. Description

BALANCE SWITCHING RIGHT PCB 129560

Ref. No.	Description	Part No.
2	LOGO	
C1	CAP ELECT 10UF 50V	066445
C2	CAP MONO 100PF 100V 10% NPO	061300
C3	CAP MONO 100PF 100V 10% NPO	061300
C4	CAP MONO 22PF 200V 10% NPO	061298
C5	CAP MONO 22PF 200V 10% NPO	061298
C6	CAP ELECT 10UF 100VDC	066462
C10	CAP MONO .1uF 50V 20% Z5U	061305
C11	CAP MONO .1uF 50V 20% Z5U	061305
C14	CAP ELECT 47UF 35V	066446
C15	CAP ELECT 47UF 35V	066446

PARTS LIST Cont'd

Ref. No.	Description	Part No.
BALANCE SWITCHING RIGHT PCB 129560 (Cont'd)		
C16	CAP ELECT 47UF 35V	066446
C17	CAP MONO .1uF 50V 20% Z5U	061305
C18	CAP MONO .1uF 50V 20% Z5U	061305
C19	CAP ELECT 10UF 100VDC	066462
C21	CAP MONO 22PF 200V 10% NPO	061298
C22	CAP ELECT 47UF 35V	066446
C23	CAP MONO .1uF 50V 20% Z5U	061305
C24	CAP MONO .1uF 50V 20% Z5U	061305
C25	CAP ELECT 10UF 100VDC	066462
C27	CAP MONO 22PF 200V 10% NPO	061298
C30	CAP MONO 100PF 100V 10% NPO	061300
C31	CAP MONO .1uF 50V 20% Z5U	061305
C32	CAP MONO .1uF 50V 20% Z5U	061305
C35	CAP ELECT 10UF 100VDC	066462
C37	CAP MONO 100PF 100V 10% NPO	061300
C38	CAP MONO 22PF 200V 10% NPO	061298
C39	CAP MONO 22PF 200V 10% NPO	061298
C40	CAP MONO 100PF 100V 10% NPO	061300
C41	CAP MONO 100PF 100V 10% NPO	061300
C42	CAP MONO 100PF 100V 10% NPO	061300
C43	CAP MONO 100PF 100V 10% NPO	061300
C44	CAP ELECT 10UF 50V	066445
C45	CAP ELECT 10UF 50V	066445
C46	CAP ELECT 10UF 50V	066445
D1	DIODE SILICON 1N4148	070047
IC1	IC OPERATIONAL AMP LOW NOISE	133067
IC2	IC OPERATIONAL AMP LOW NOISE	133067
IC3	IC OPERATIONAL AMP LOW NOISE	133067
IC4	IC OPERATIONAL AMP LOW NOISE	133067
IC5	IC OPERATIONAL AMP LOW NOISE	133067
IC6	IC OPERATIONAL AMP LOW NOISE	133067
J1	CONN 12 PIN FFC	117720
J2	CONN 12 PIN FFC	117720
J3	SOCKET STRIP 14 PIN .025 SQ	117644
J4	SOCKET STRIP 14 PIN .025 SQ	117644
K1	RELAY REED FORM 1A 5V 500 OHMS	87050
K2	RELAY REED FORM 1A 5V 500 OHMS	87050
K3	RELAY REED FORM 1A 5V 500 OHMS	87050
K4	RELAY REED FORM 1A 5V 500 OHMS	87050
K5	RELAY REED FORM 1A 5V 500 OHMS	87050
K6	RELAY REED FORM 1A 5V 500 OHMS	87050
K7	RELAY REED FORM 1C 5V 125 OHM	87056
R1	RES MF 47.5K 1% 1/4W	144108
R2	RES MF 1K 1% 1/4W	144090
R3	RES MF 10K 1% 1/4W	144053
R4	RES MF 10K 1% 1/4W	144053
R5	RES MF 2.21 OHM 1/4W 1%	144378
R6	RES MF 2.21 OHM 1/4W 1%	144378
R9	RES MF 47.5 OHM 1% 1/4W	144442
R10	RES MF 47.5K 1% 1/4W	144108
R11	RES MF 2.21 OHM 1/4W 1%	144378
R12	RES MF 2.21 OHM 1/4W 1%	144378
R13	RES MF 47.5 OHM 1% 1/4W	144442
R14	RES MF 47.5K 1% 1/4W	144108
R15	RES MF 4.99K 1% 1/4W	144098
R16	RES MF 4.99K 1% 1/4W	144098
R17	RES MF 2.21 OHM 1/4W 1%	144378
R18	RES MF 2.21 OHM 1/4W 1%	144378
R19	RES MF 10K 1% 1/4W	144053
R20	RES MF 10K 1% 1/4W	144053
R23	RES MF 2.21 OHM 1/4W 1%	144378
R24	RES MF 2.21 OHM 1/4W 1%	144378
R25	RES MF 1K 1% 1/4W	144090
R26	RES MF 267K 1% 1/4W	144118
R27	RES MF 267K 1% 1/4W	144118
R28	RES MF 267K 1% 1/4W	144118
R29	RES MF 1K 1% 1/4W	144090
R30	RES MF 1K 1% 1/4W	144090

Ref. No.	Description	Part No.
METER PCB 129539		
2	LOGO	
C1	CAP MONO .1UF 50V 20%	061305
C2	CAP ELECT 10UF 16V 4X5 CASE T&R	066555
C3	CAP MONO .1UF 50V 20%	061305
C4	CAP MONO .1UF 50V 20%	061305
C6	CAP ELECT 47UF 16V 6.3X5 CASE	066380
C7	CAP MPF 0.47UF 5% 50/63VDC	64333
C8	CAP MONO .1UF 50V 20%	061305
C40	CAP MONO 22PF 200V 10% NPO	061298
D1	DIODE ZENER 5V	70132
D2	DIODE SILICON	070047
D3	DIODE ZENER 5V	70132
D4	DIODE SILICON	070047
D6	DIODE SILICON	070047
D8	DIODE SILICON	070047
D9	DIODE SILICON	070047
D12	DIODE SILICON	070047
DS1	LED BLUE 5MM HI-INT VF[V] 3.6	058166(1) 112108(1)
DS2	LED BLUE-GREEN HI-INTENSITY VF[V] 3.5	058176(1) 112108(1)
DS5	LED BLUE 5MM HI-INT VF[V] 3.6	058166(1) 112108(1)
DS6	LED BLUE-GREEN HI-INTENSITY VF[V] 3.5	058176(1) 112108(1)
J1	CONN 12 PIN FFC	117720
J3	CONNECTOR HEADER 2PIN RT ANGLE	117873
Q1	TRANSISTOR NPN	132223
Q3	TRANSISTOR NPN	132223
Q5	TRANSISTOR NPN	132223
Q7	TRANSISTOR NPN SILICON	132171
Q9	TRANSISTOR NPN	132223
R1	RES MF 100 OHM 1% 1/4W	144196
R2	RES MF 1.5K 1% 1/4W	144128
R3	RES MF 806 OHM 1% 1/4W	144089
R4	RES MF 10 OHM 1% 1/4W	144157
R5	RES MF 100K 1% 1/4W	144113
R6	RES MF 10 OHM 1% 1/4W	144157
R7	RES MF 10K 1% 1/4W	144053
R8	RES MF 22.1K 1% 1/4W	144187
R9	RES MF 806 OHM 1% 1/4W	144089
R10	RES MF 100K 1% 1/4W	144113
R11	RES MF 15K 1% 1/4W	144412
R12	RES MF 22.1K 1% 1/4W	144187
R13	POT TRIM 100K OHM 20%	134383
R15	RES MF 221 OHM 1% 1/4W	144172
R17	RES MF 2.21M 1/4W	144265
R21	RES MF 4.75K 1% 1/4W	144097
R23	RES MF 10K 1% 1/4W	144053
R25	RES MF 4.75K 1% 1/4W	144097
R26	POT TRIM 2K OHM 20%	134384
R27	POT TRIM 2K OHM 20%	134384
R30	RES 511 OHM 1% 1/4W	144123
R31	RES 511 OHM 1% 1/4W	144123
U12	IC OPERATIONAL AMP LOW NOISE	133067
U14	IC OPERATIONAL AMP LOW NOISE	133067

Ref. No.	Description	Part No.
HEADPHONE PCB 129601		
2	LOGO	
J1	HEADPHONE JACK 1/4	117881
J2	CONNECTOR HEADER 2PIN RT ANGLE	117873
J3	CONNECTOR HEADER 2PIN RT ANGLE	117873

EXPLODED VIEW

C1000P
PREAMPLIFIER

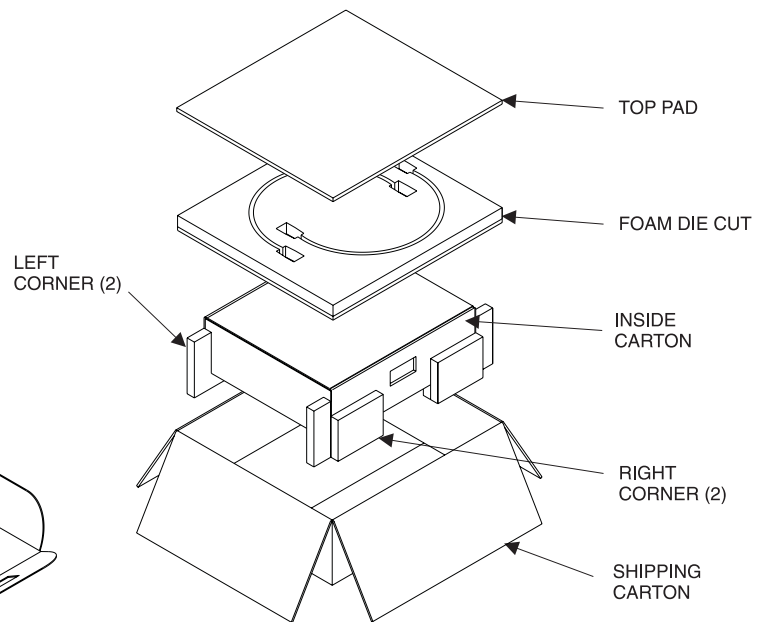
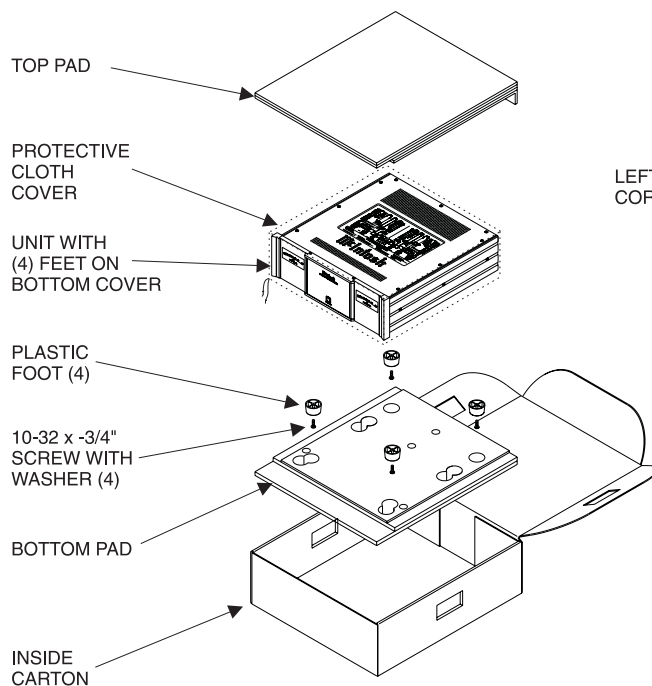
NOTES

REPACKING INSTRUCTIONS

In the event it is necessary to repack the equipment for shipment, the equipment must be packed exactly as shown below. It is very important that the four plastic feet are attached to the bottom of the equipment. This will ensure the proper equipment location on the bottom pad. Failure to do this will result in shipping damage.

Use the original shipping carton and interior parts only if they are all in good serviceable condition. If a shipping carton or any of the interior part(s) are needed, please call or write Customer Service Department of McIntosh Laboratory. Refer to page 4. Please see the Part List for the correct part numbers.

Qty.	Part No.	Description
1	033838	Shipping carton only
2	034346	Foam left corner
2	034347	Foam right corner
1	034348	Foam top pad diecut for Manual and accessories
1	034345	Foam top pad diecut for cables
1	034351	Top pad
1	033836	Inside carton only
1	033725	Top pad
1	034301	Bottom pad
1	034355	Protective blue cloth cover
4	017937	Plastic foot
4	100159	#10-32 x 3/4" Machine screws



C1000P

PREAMPLIFIER

SERVICE MANUAL



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