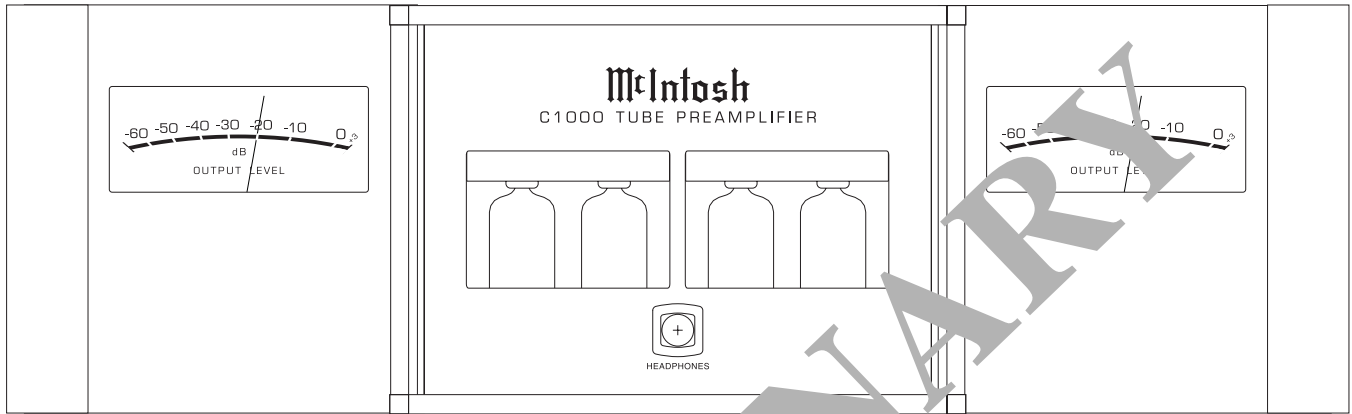




C1000T

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

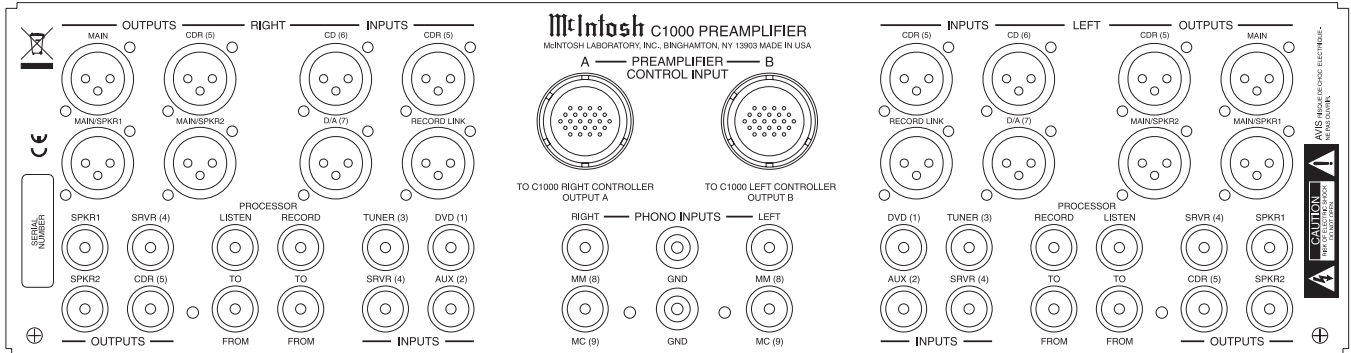
C1000C - 39.0 pounds (17.7 kg) net
61.4 pounds (27.9 kg) in shipping carton
C1000P - 33.0 pounds (15.0 kg) net
53.6 pounds (24.3 kg) in shipping carton
C1000T - 34.0 pounds (15.4 kg) net
54.6 pounds (24.8 kg) in shipping carton

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

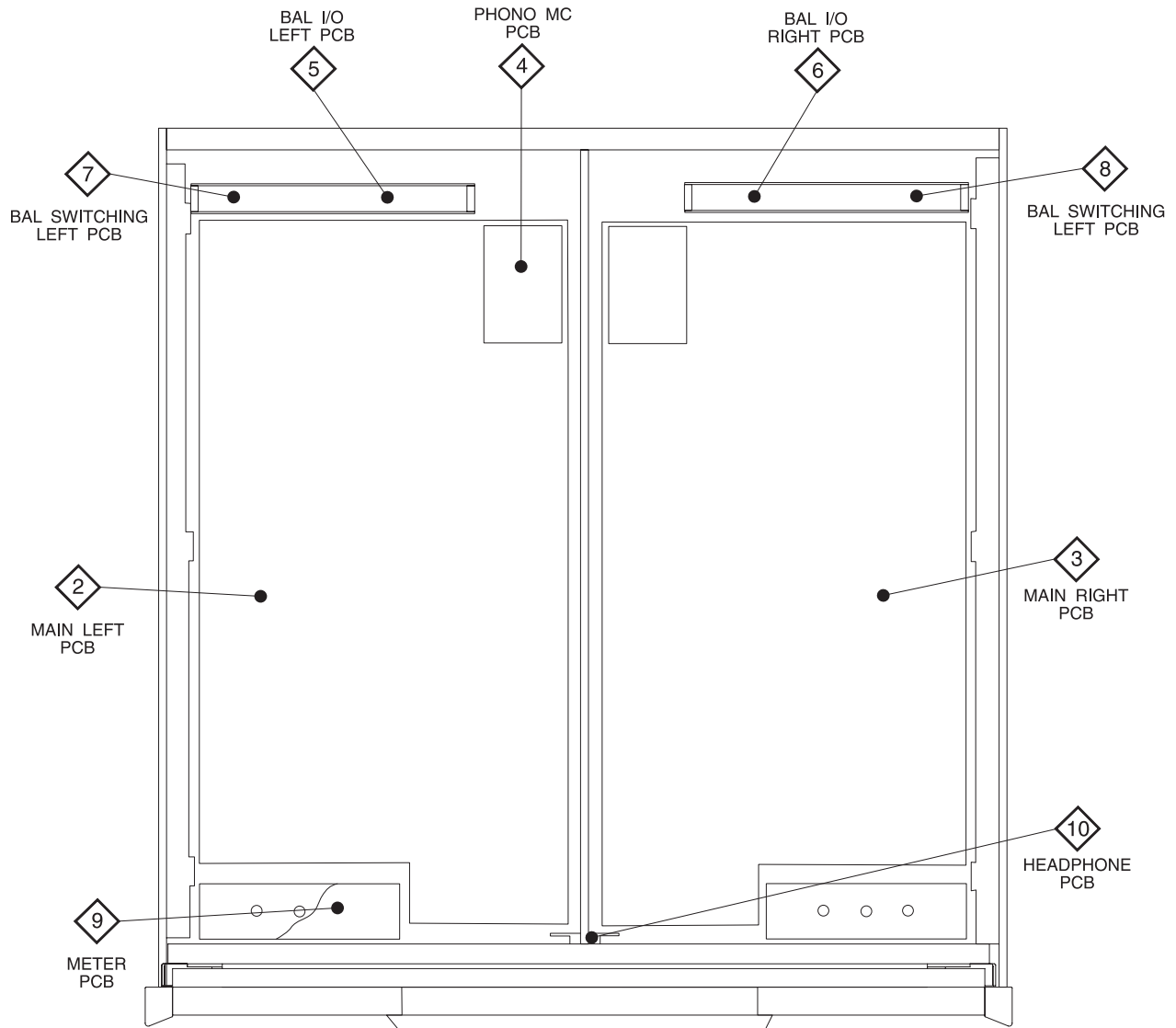
1. The heavy notes on the schematic denote the primary signal path.
2. Unless otherwise noted, all voltages indicated on the schematics are measured under the following conditions:
 - a. AC input at 120 volts, 50/60Hz.
 - b. All voltages are +/-10% with respect to ground. A high impedance (10 megaohm)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

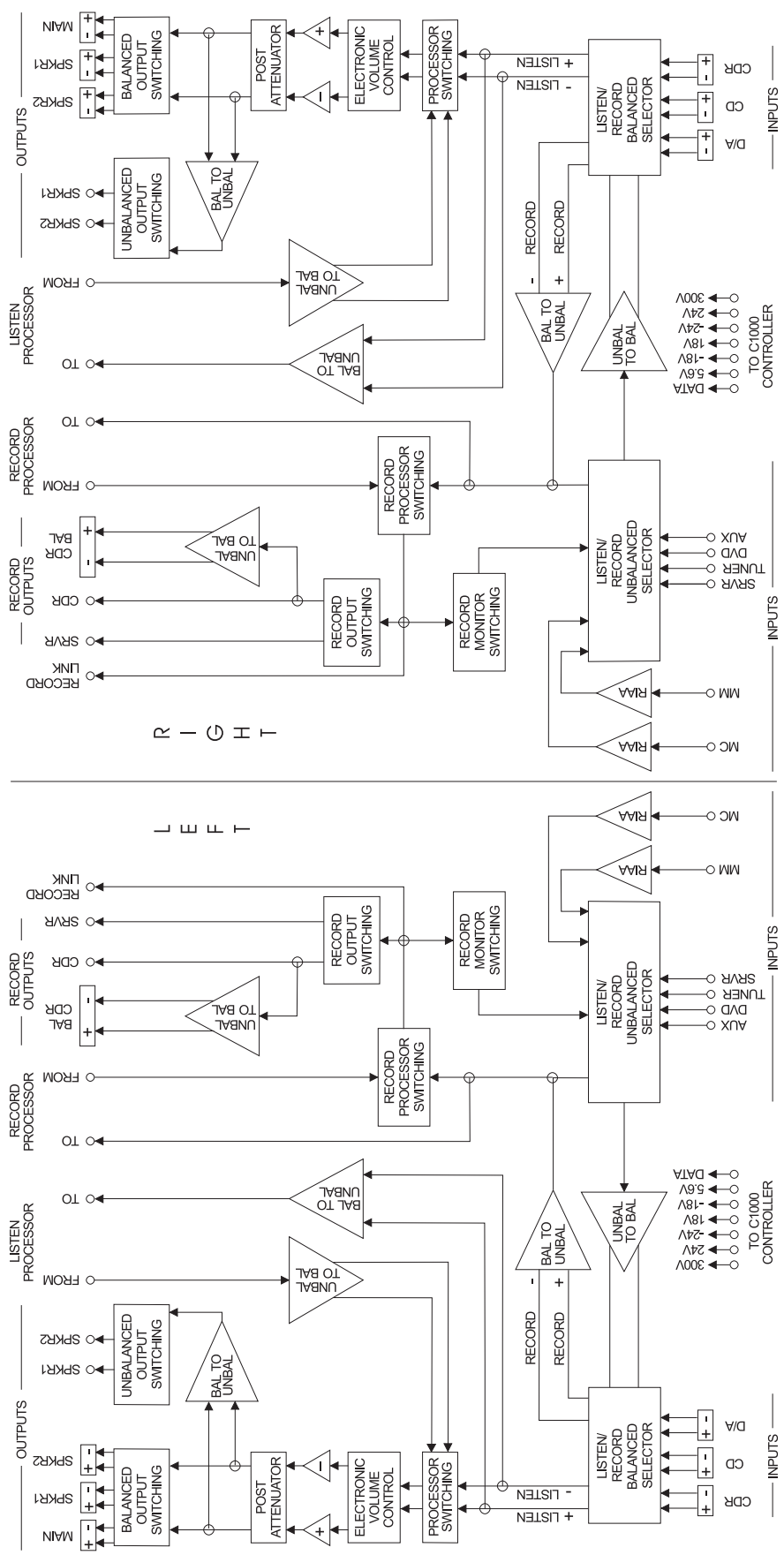


SECTION LOCATIONS

TOP VIEW WITH COVER REMOVED

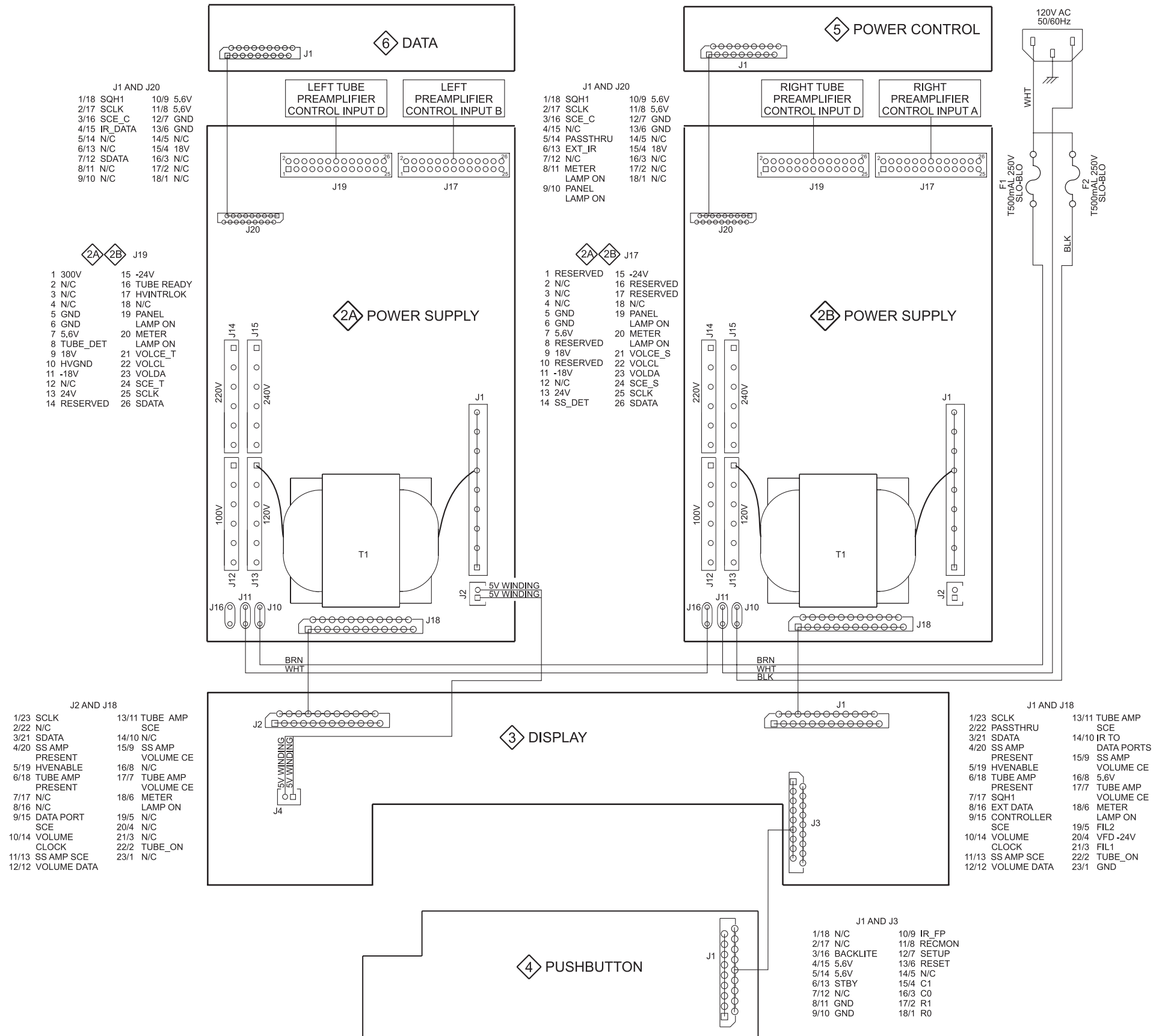


BLOCK DIAGRAM

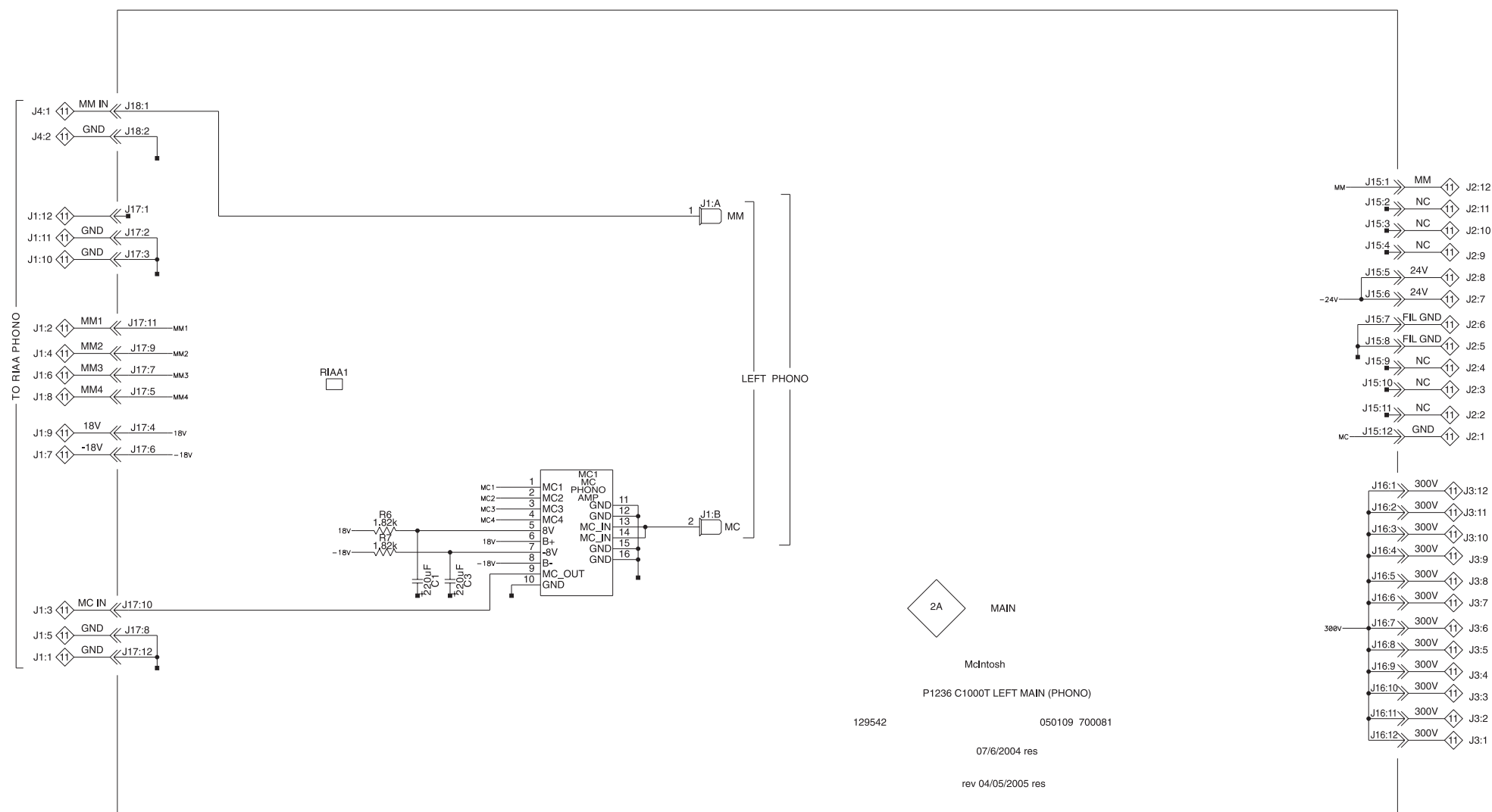


INTERCONNECT

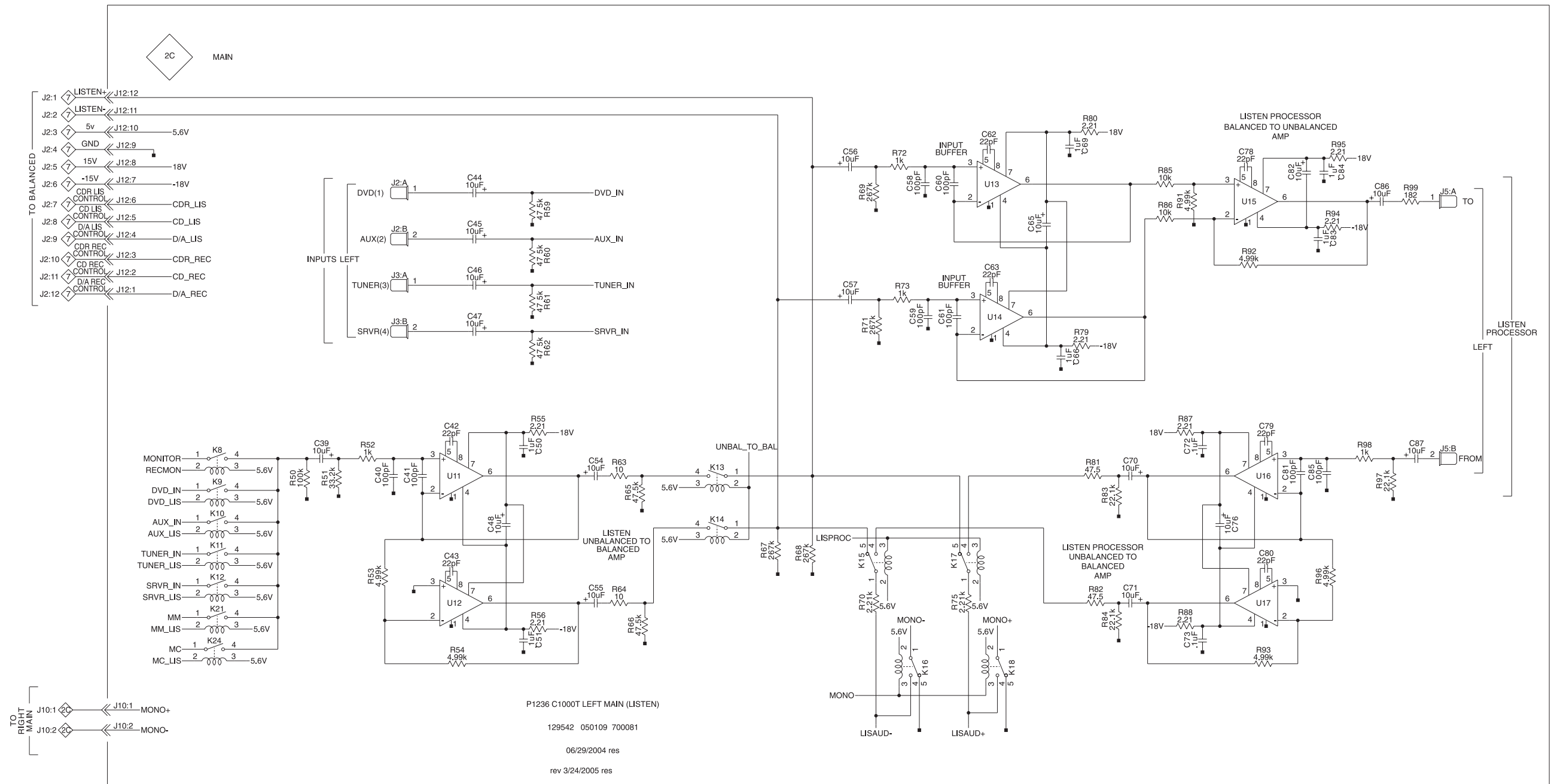
C1000T PREAMPLIFIER



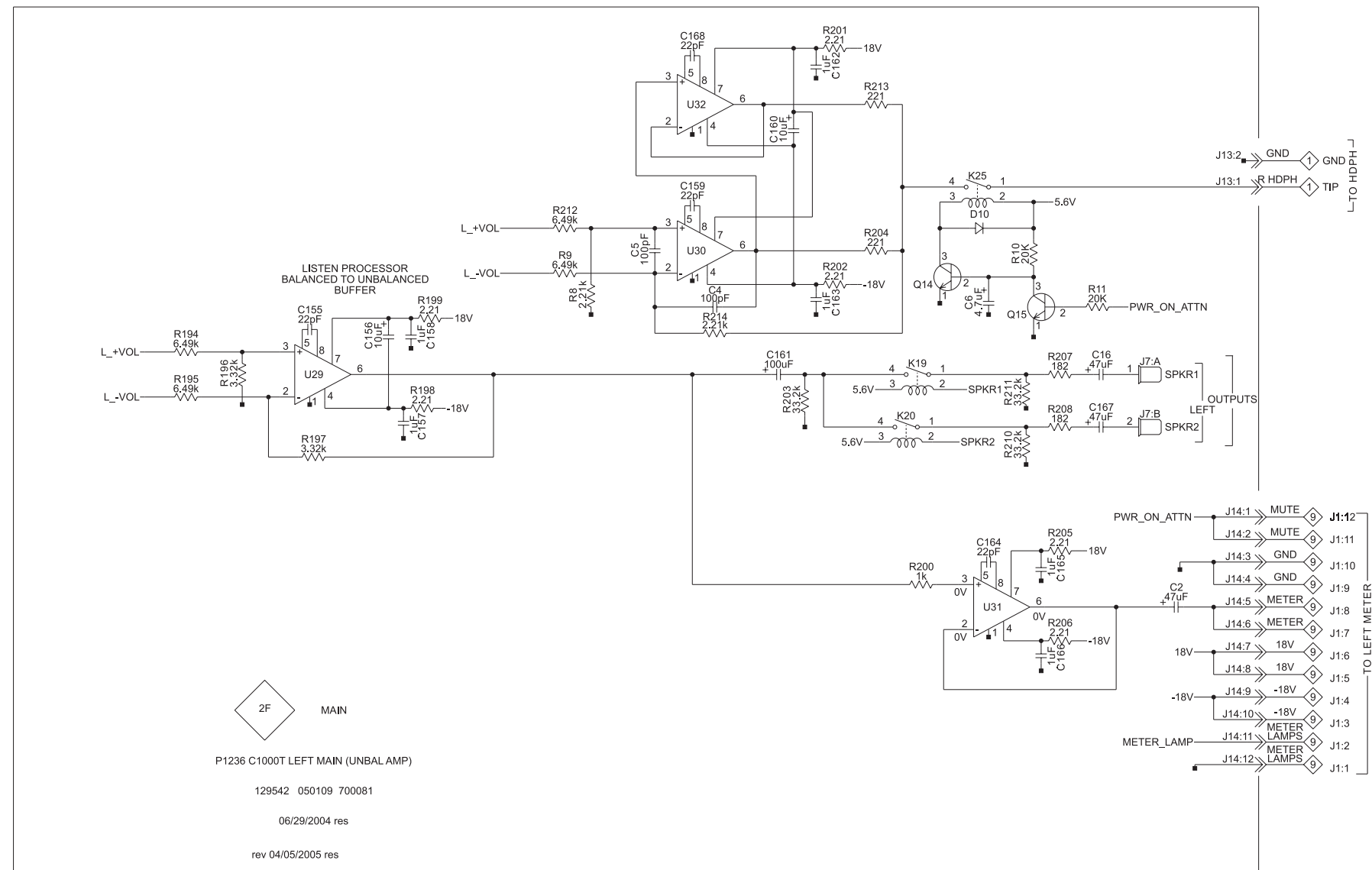
2 MAIN LEFT 129542 SH 1 OF 5



2 MAIN LEFT 129542 SH 3 OF 5

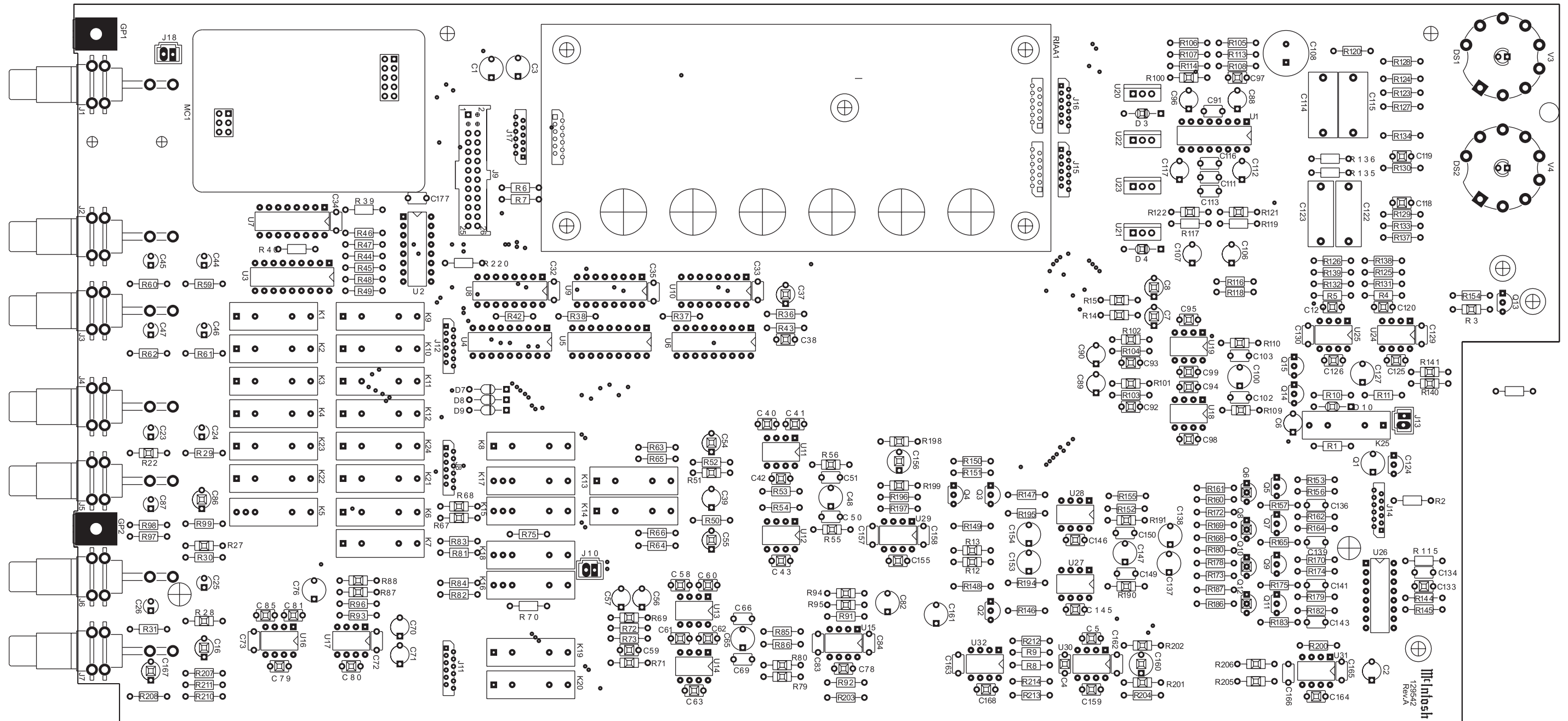


2 MAIN LEFT 129542 SH 5 OF 5

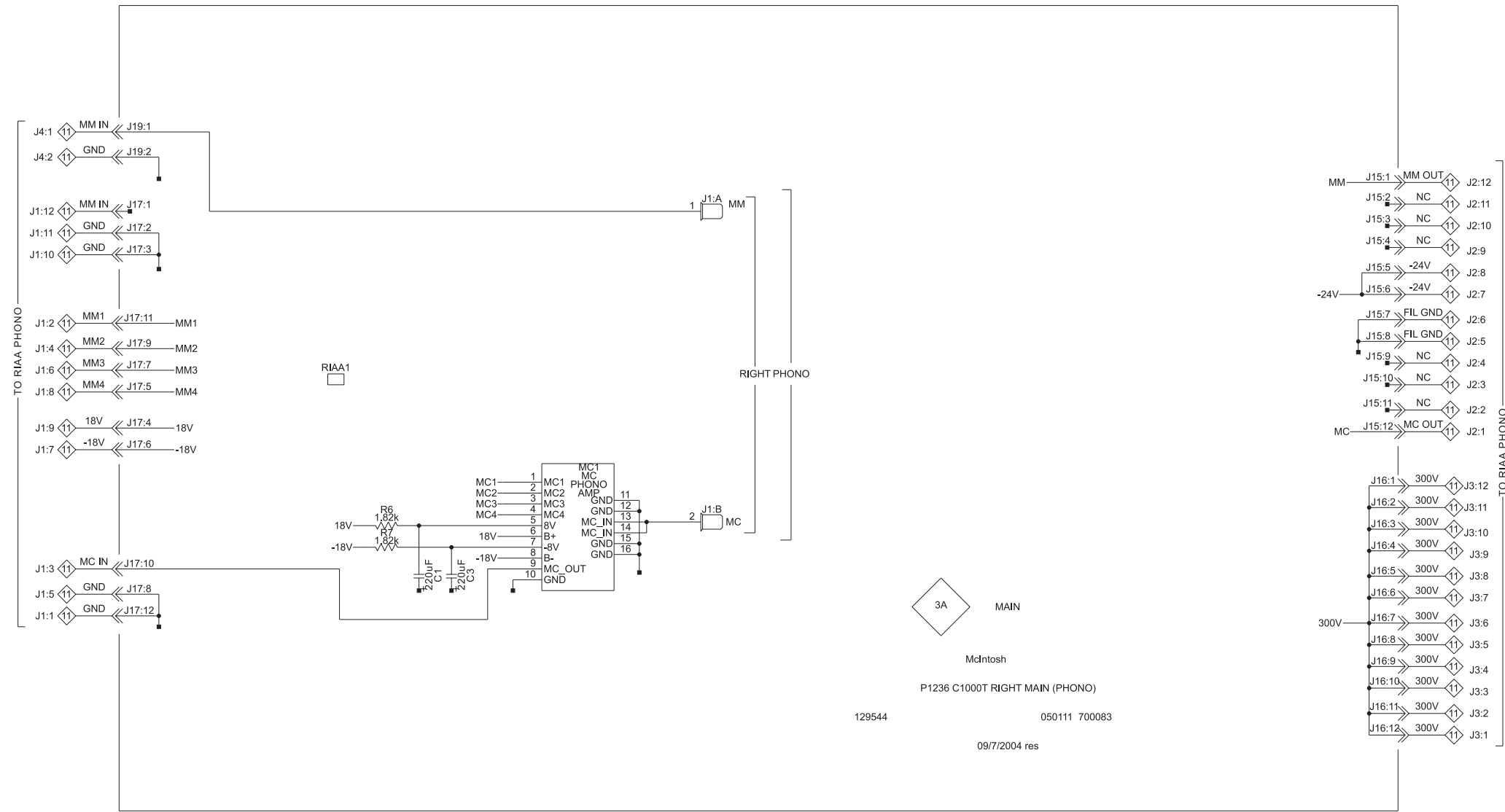


2 MAIN LEFT 129542 PCB 1

C1000T
PREAMPLIFIER

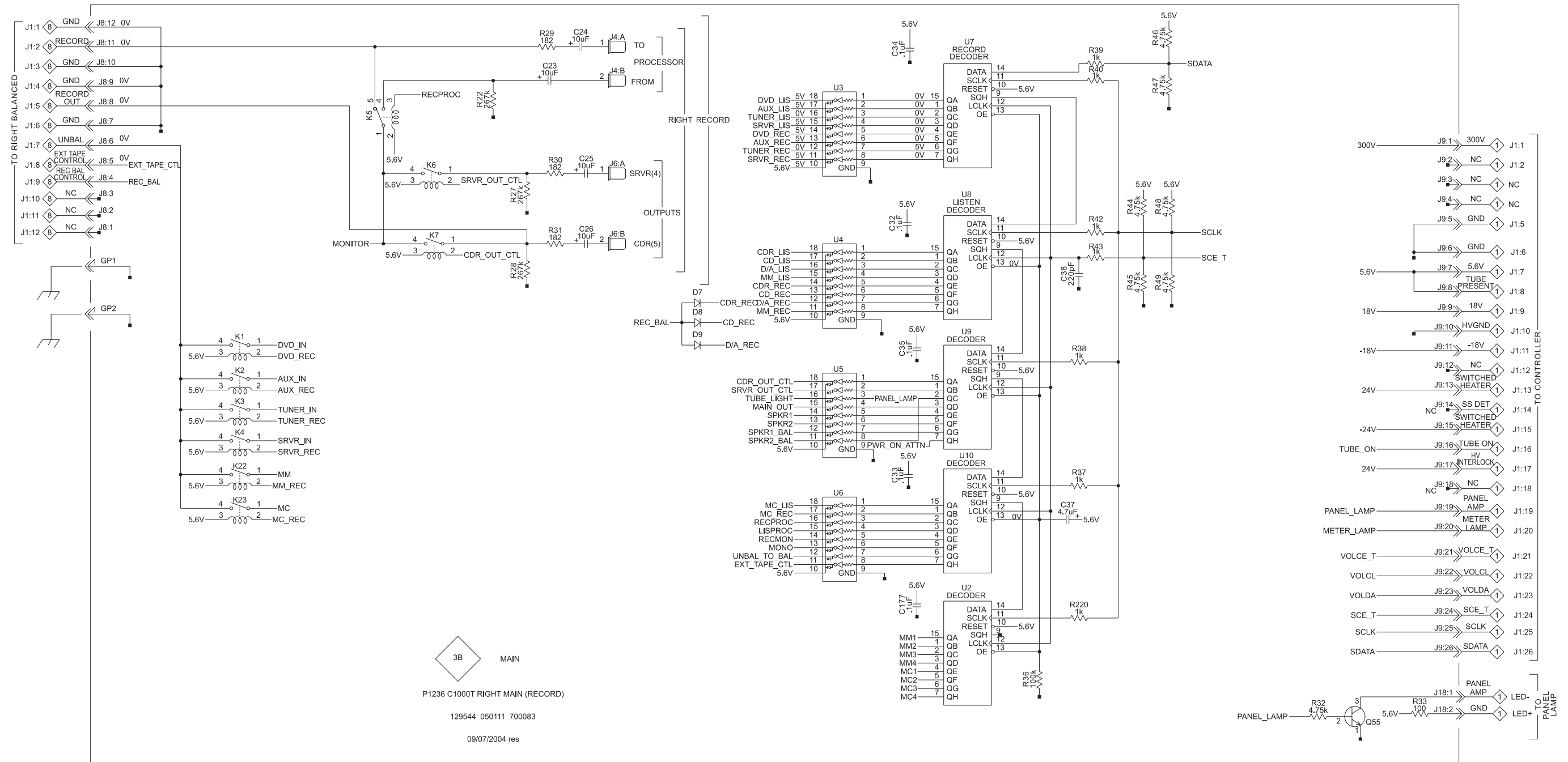


3 MAIN RIGHT 129544 SH 1 OF 5

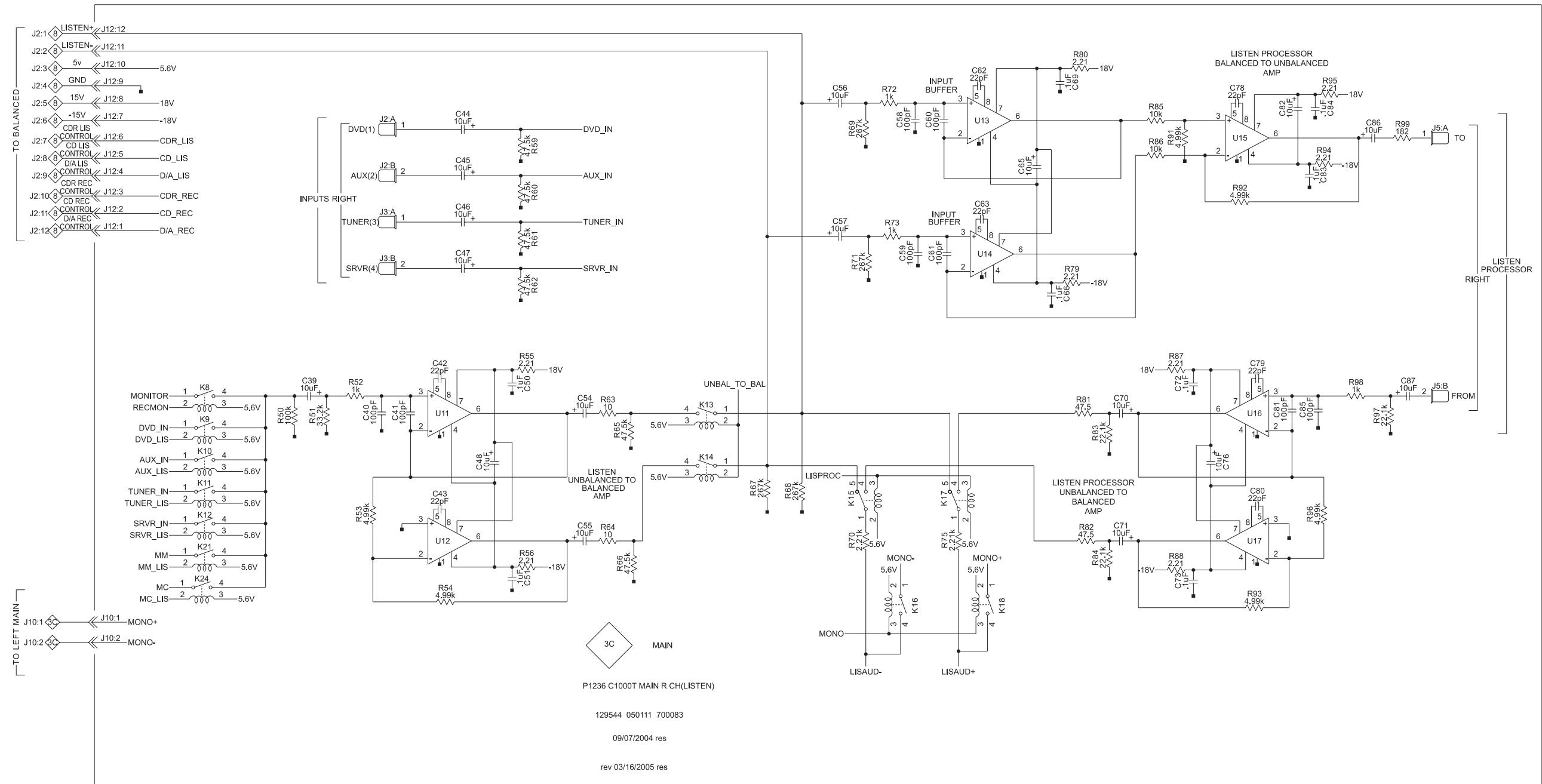


C1000T
PREAMPLIFIER

3 MAIN RIGHT 129544 SH 2 OF 5



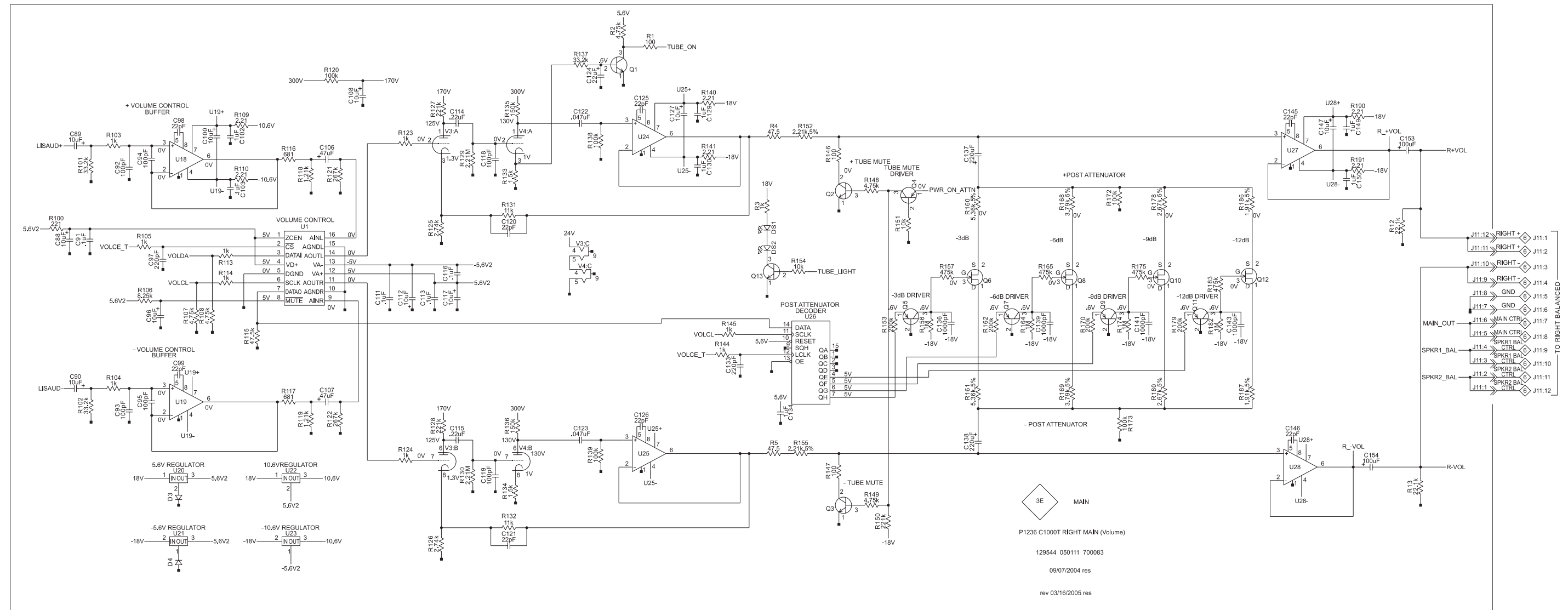
3 MAIN RIGHT 129544 SH 3 OF 5



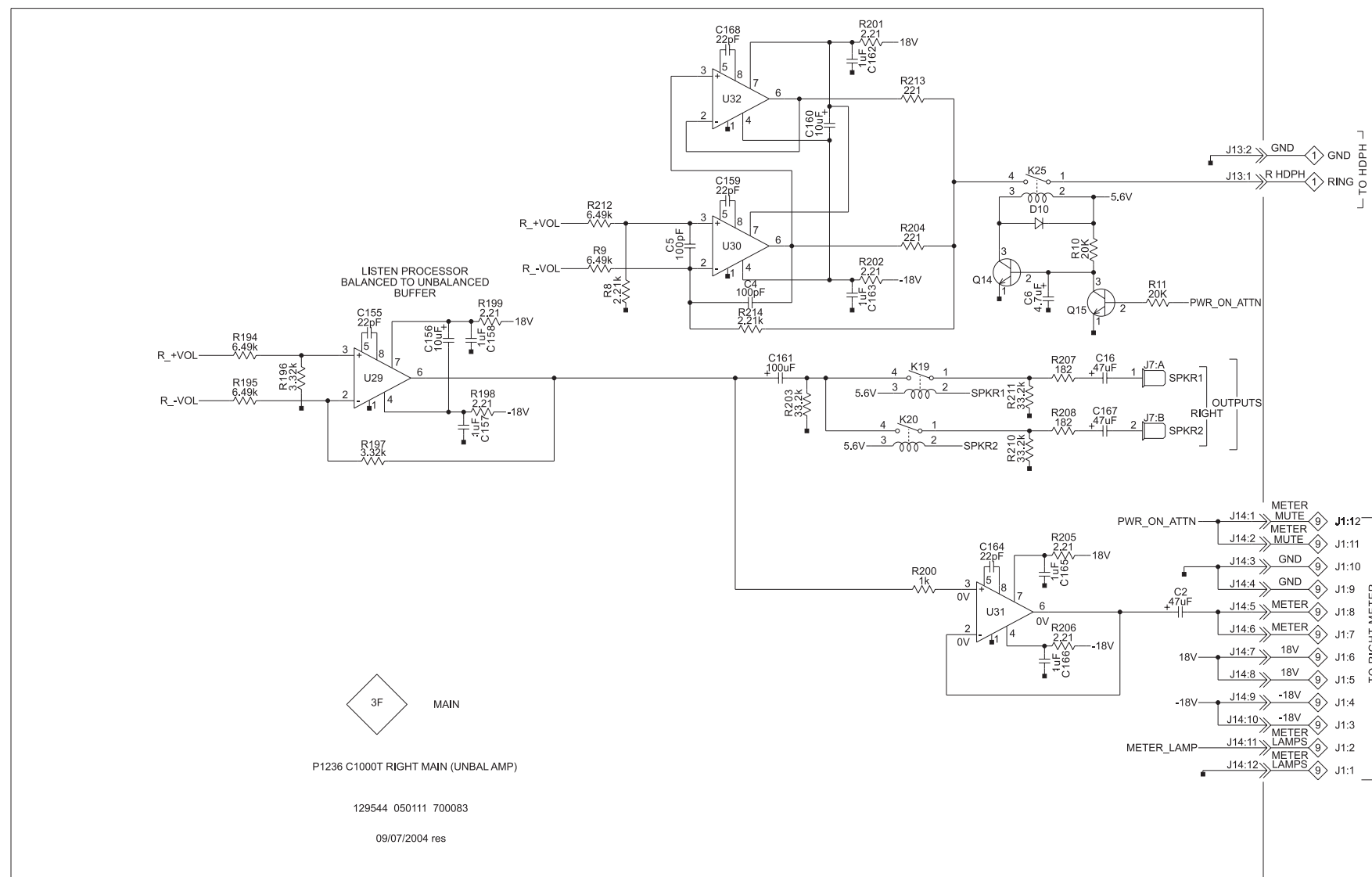
3C MAIN
P1236 C1000T MAIN R CH(LISTEN)
129544 050111 700083
09/07/2004 res
rev 03/16/2005 res

C1000T
PREAMPLIFIER

3 MAIN RIGHT 129544 SH 4 OF 5

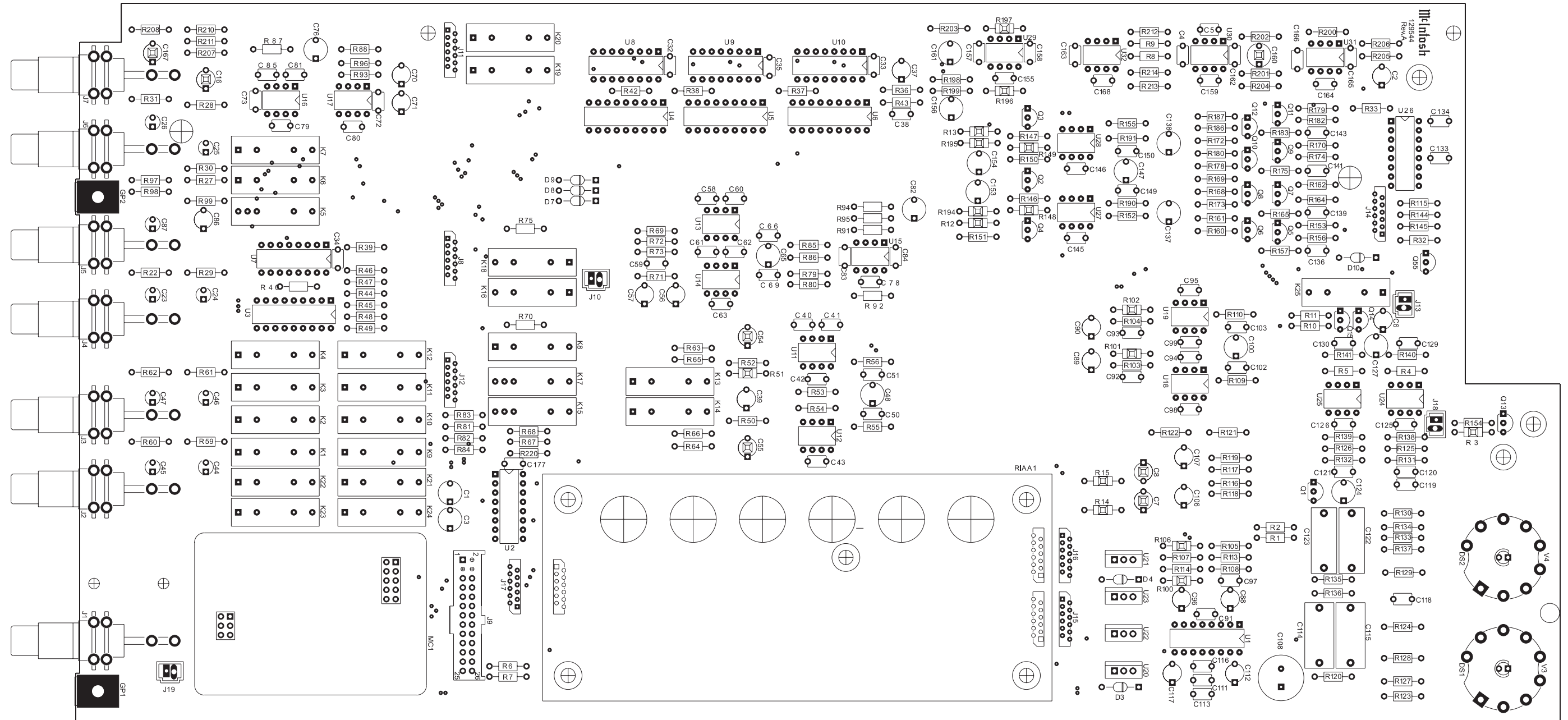


3 MAIN RIGHT 129544 SH 5 OF 5

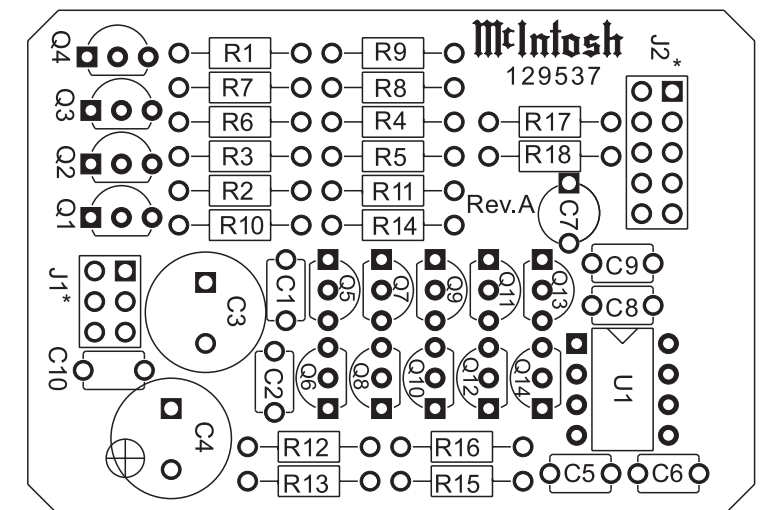
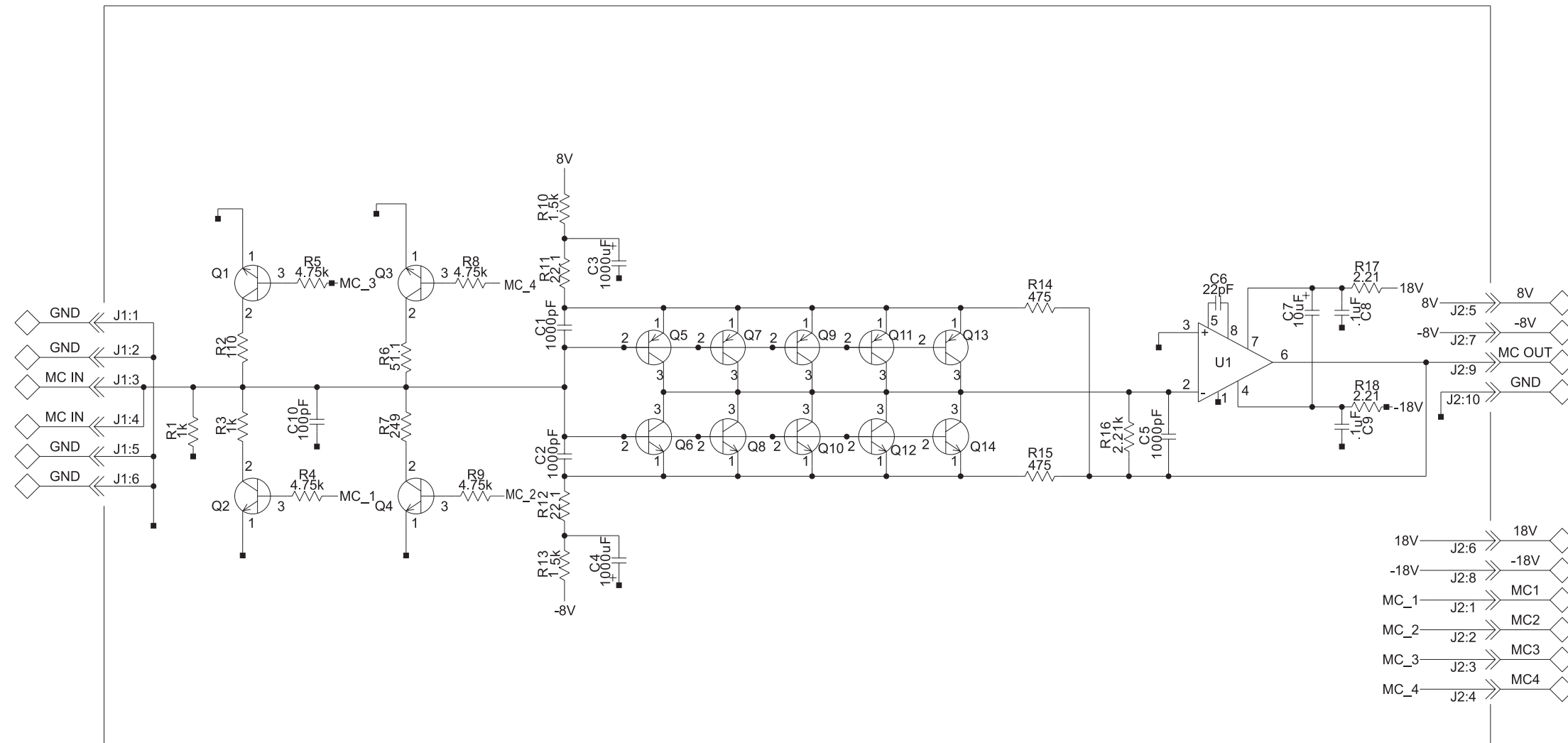


3 MAIN RIGHT 129544 PCB

C1000T PREAMPLIFIER

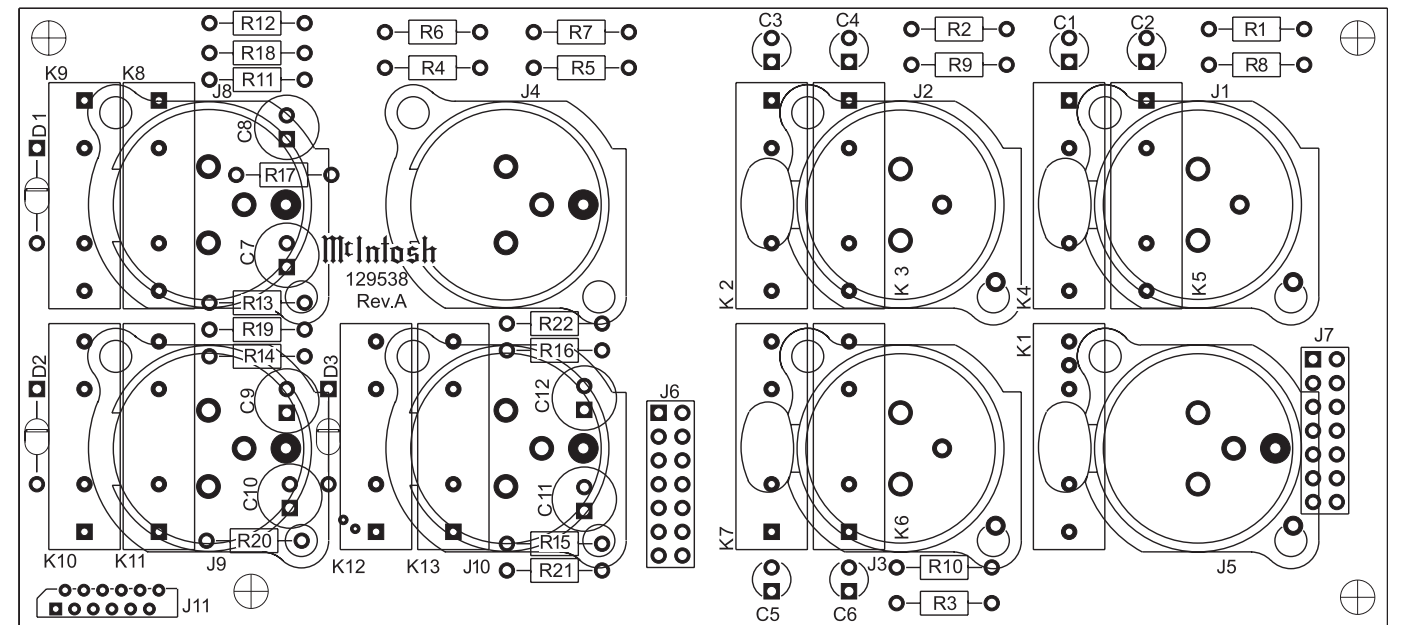
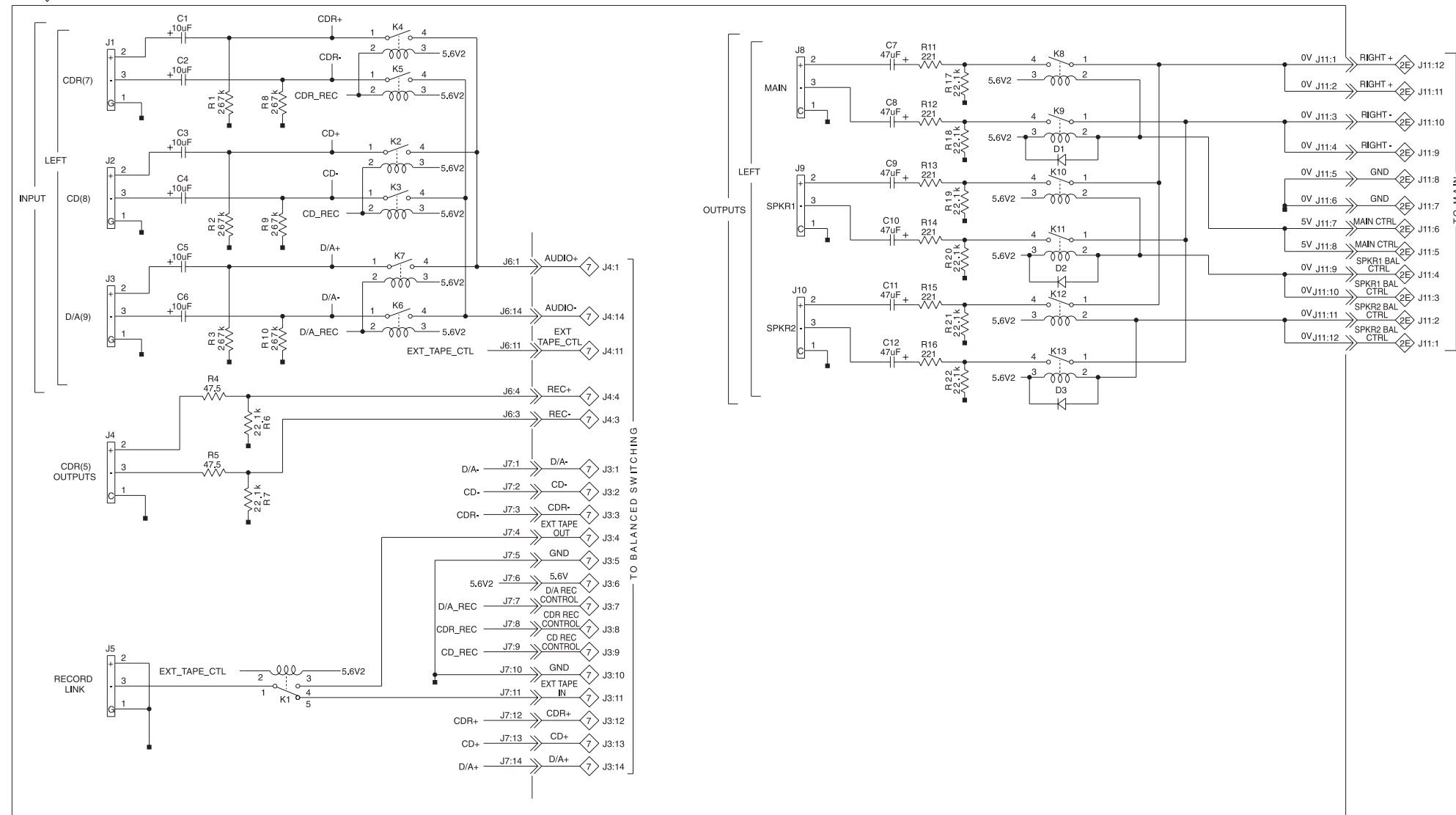


4 PHONO MC 129537 SH and PCB

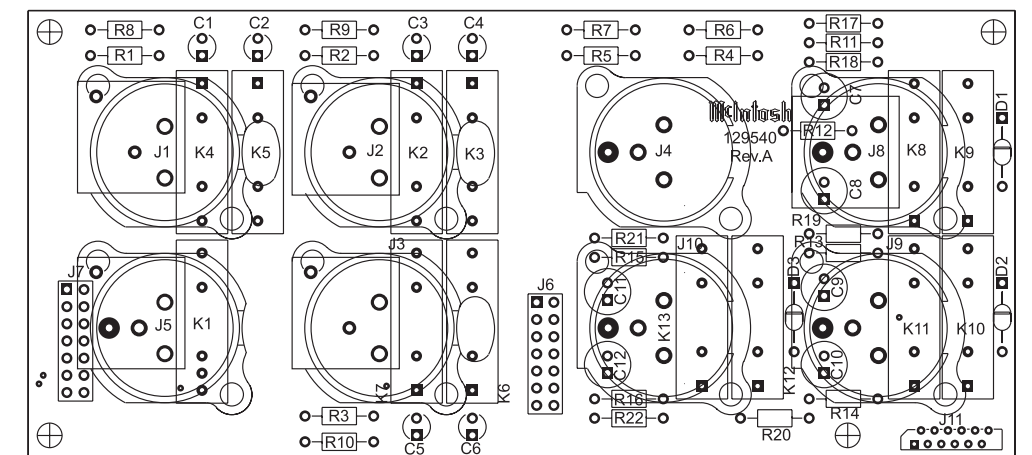
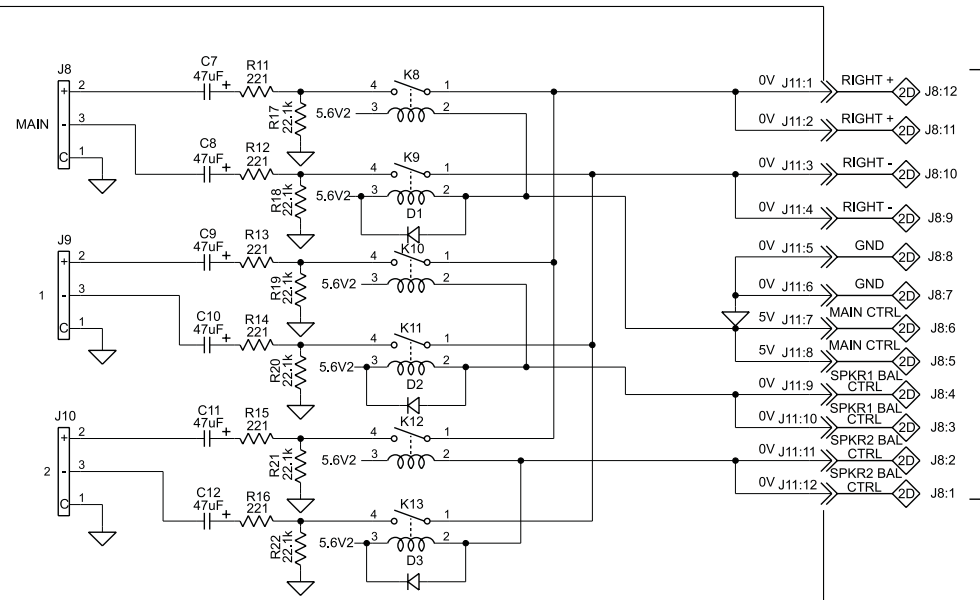
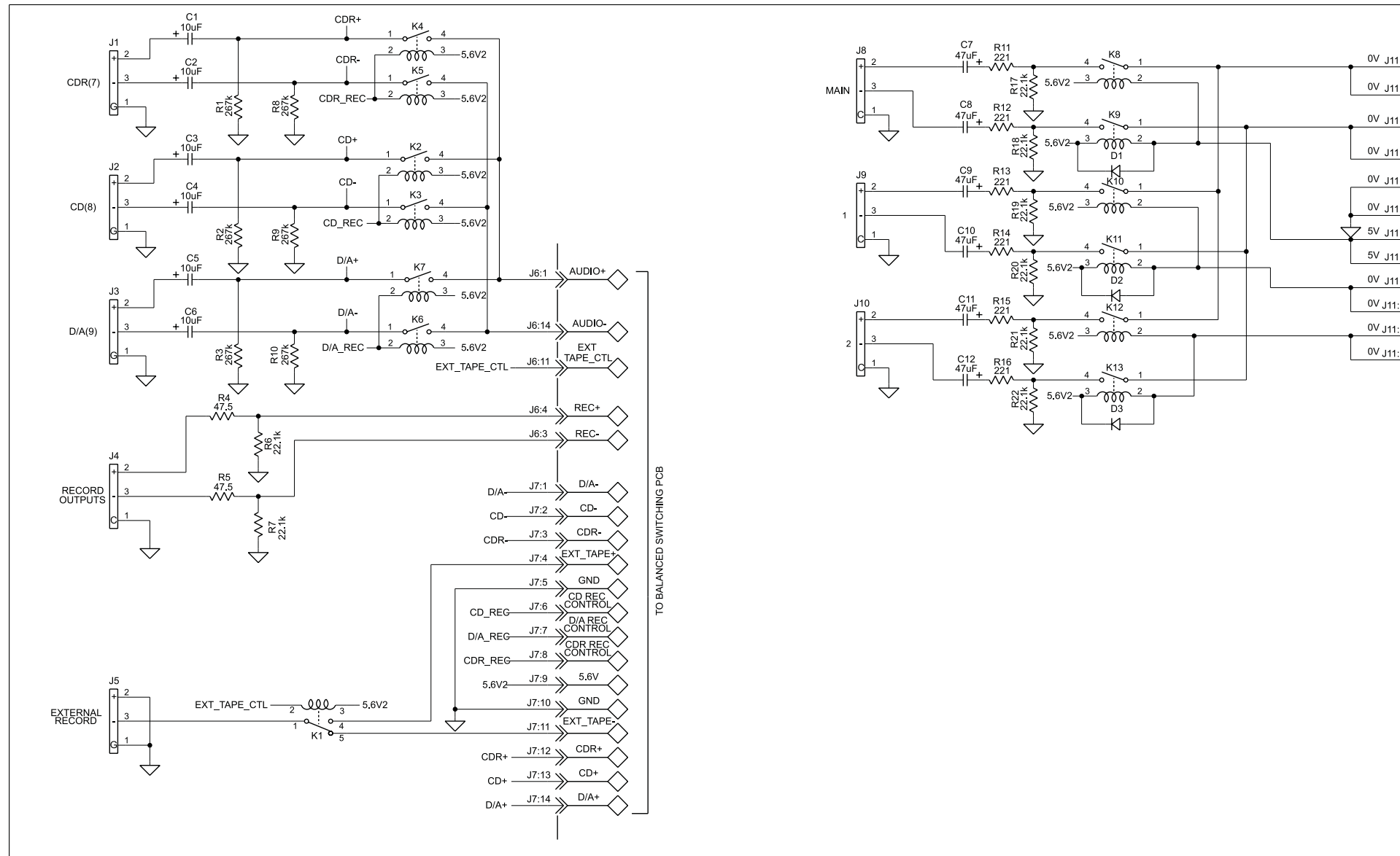


C100T
PREAMPLIFIER

5 BALANCE I/O LEFT 129538 SH and PCB

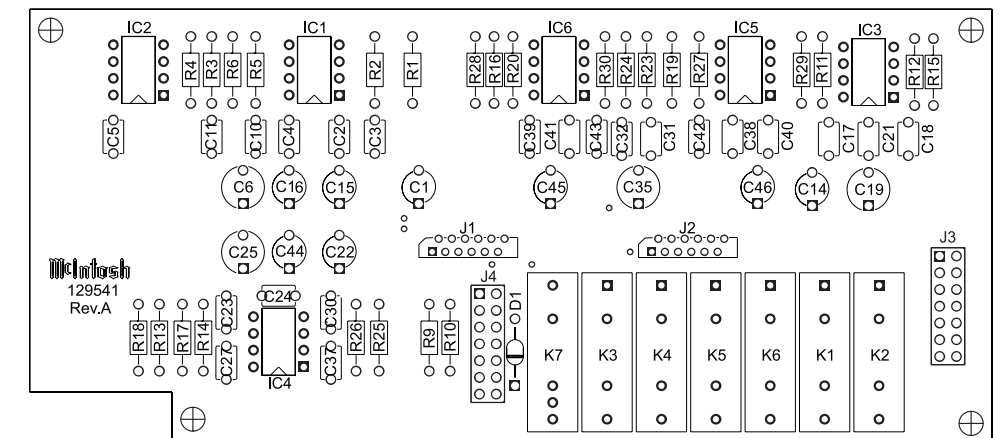
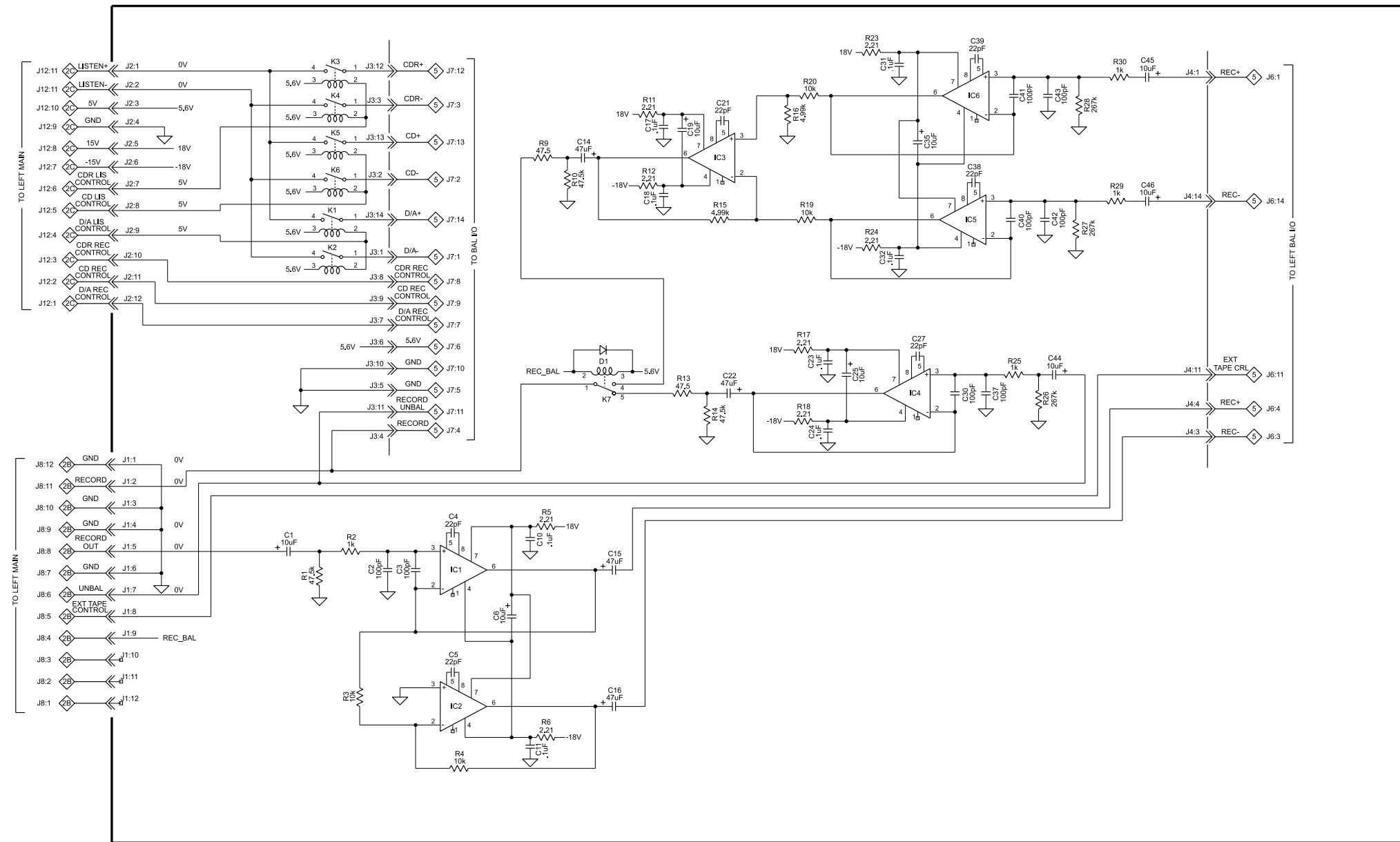


6 BALANCE I/O RIGHT 129540 SH and PCB

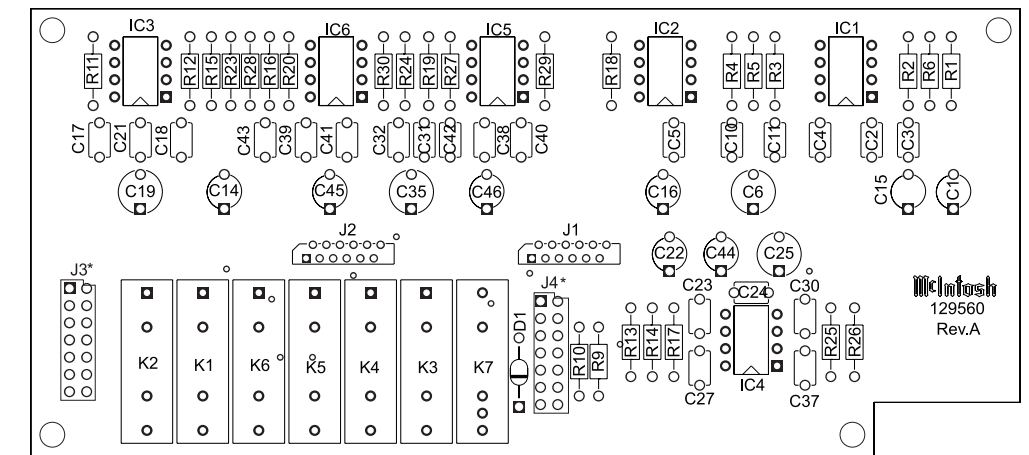
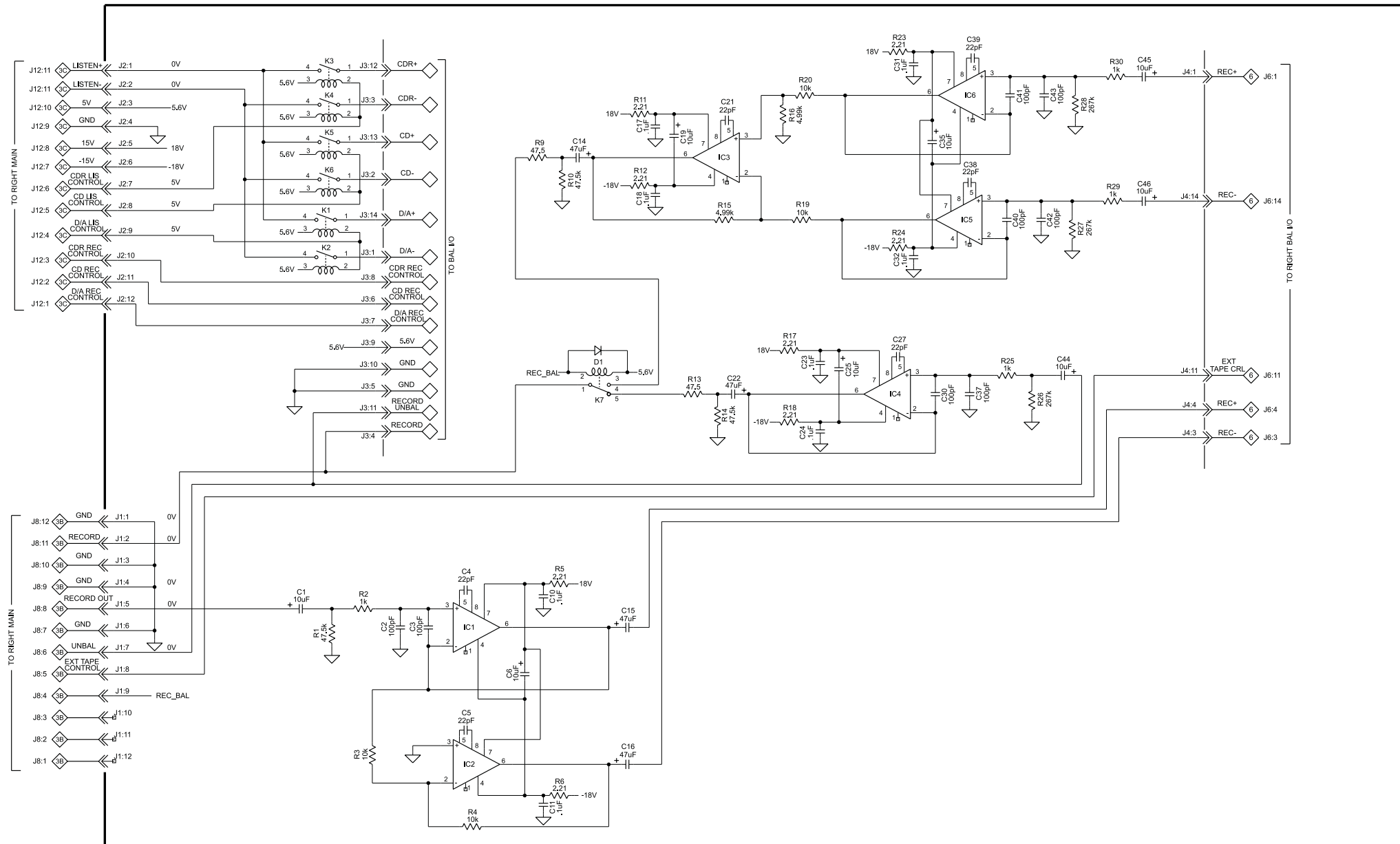


C1000T
PREAMPLIFIER

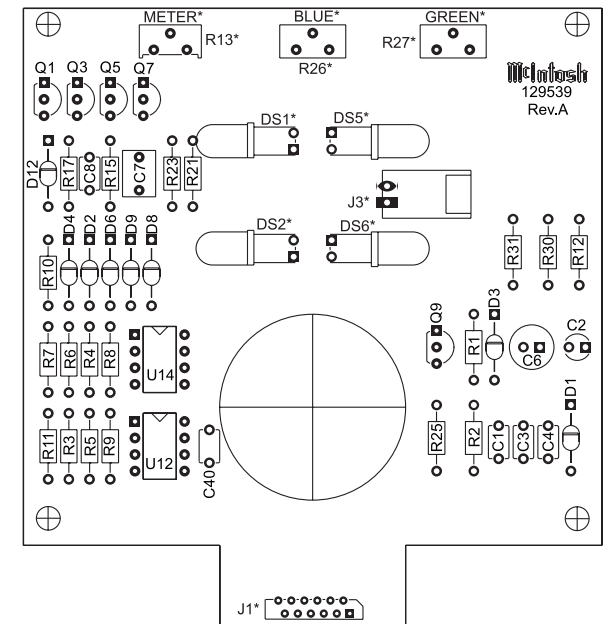
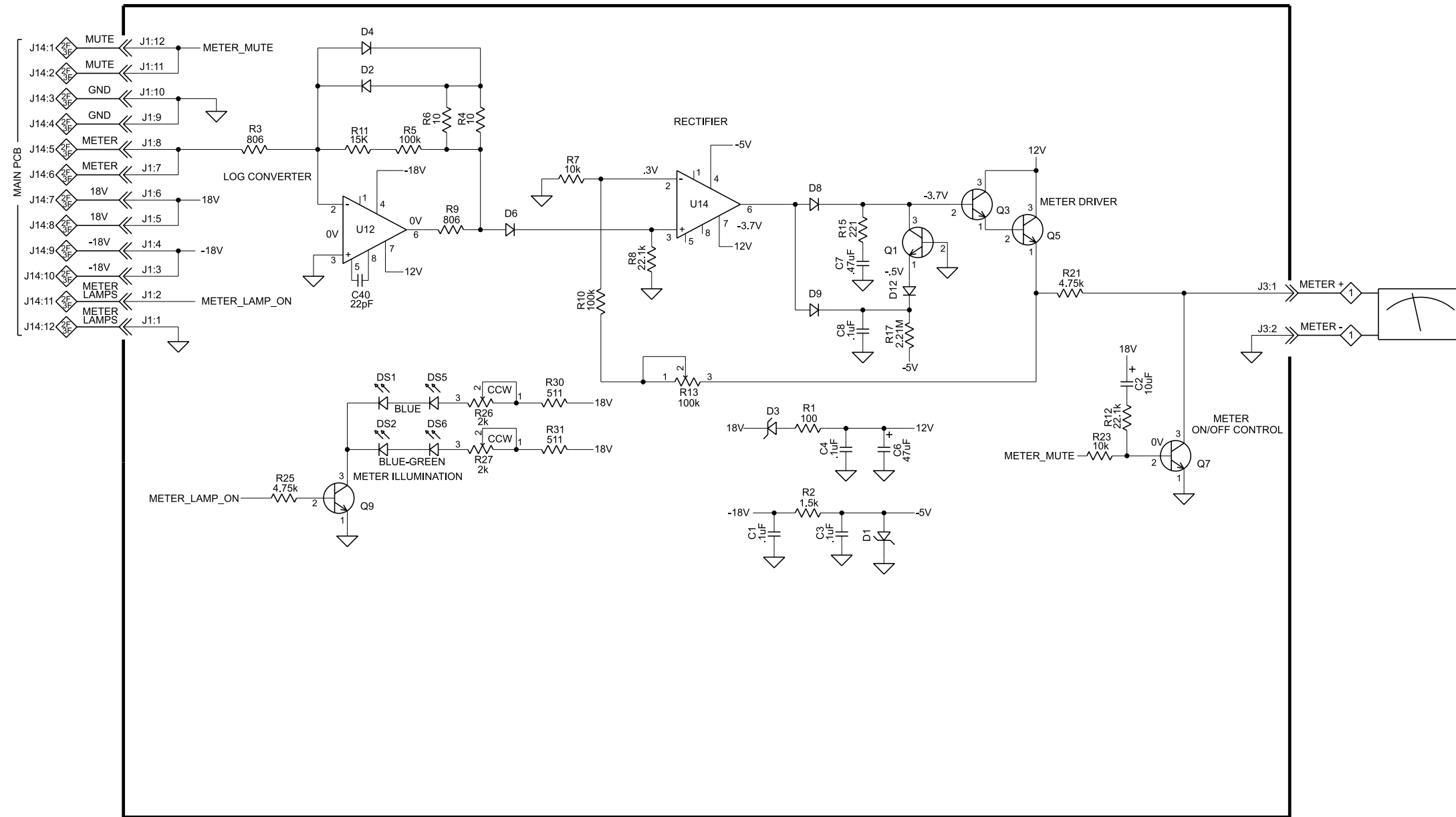
7 BALANCE SWITCHING LEFT 129541 SH and PCB



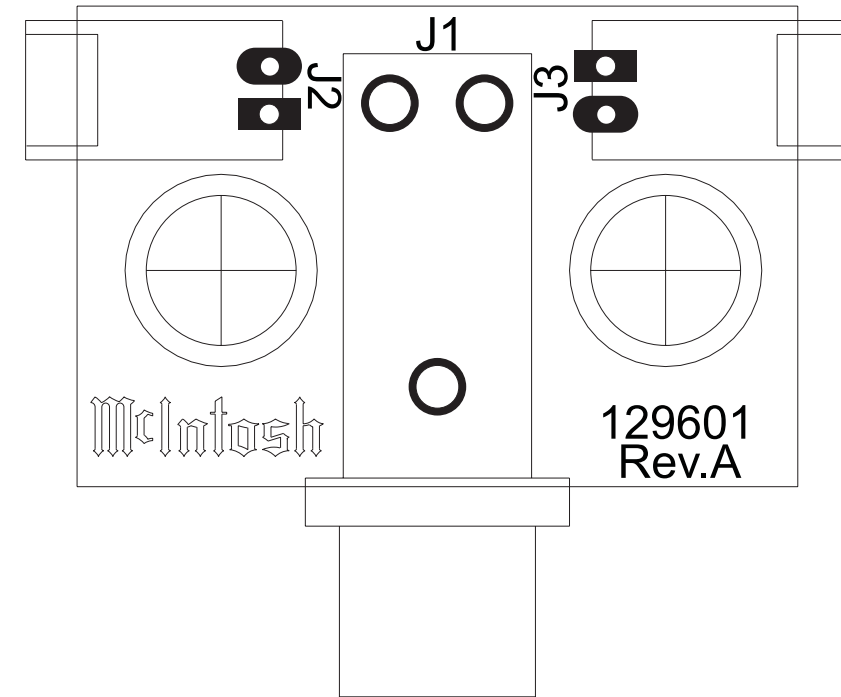
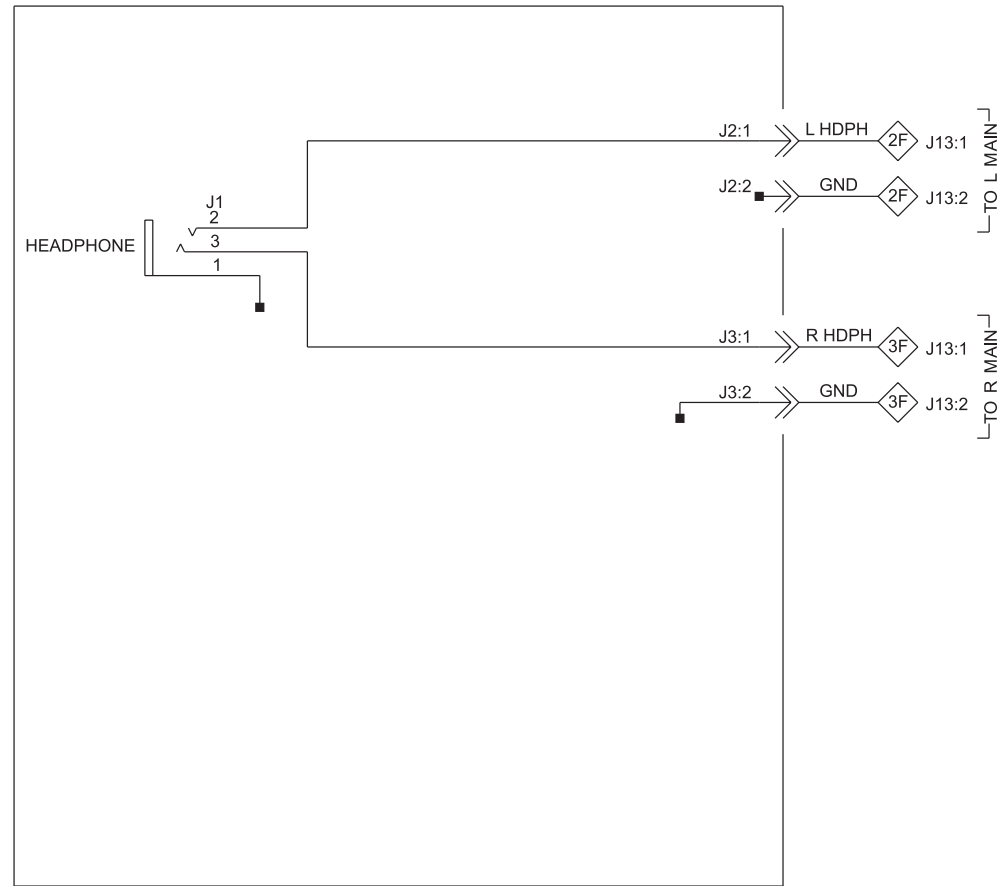
8 BALANCE SWITCHING RIGHT 129560 SH and PCB



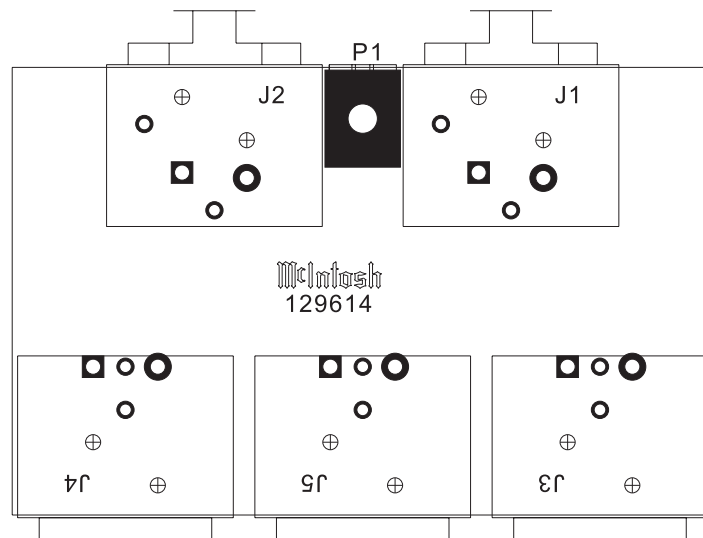
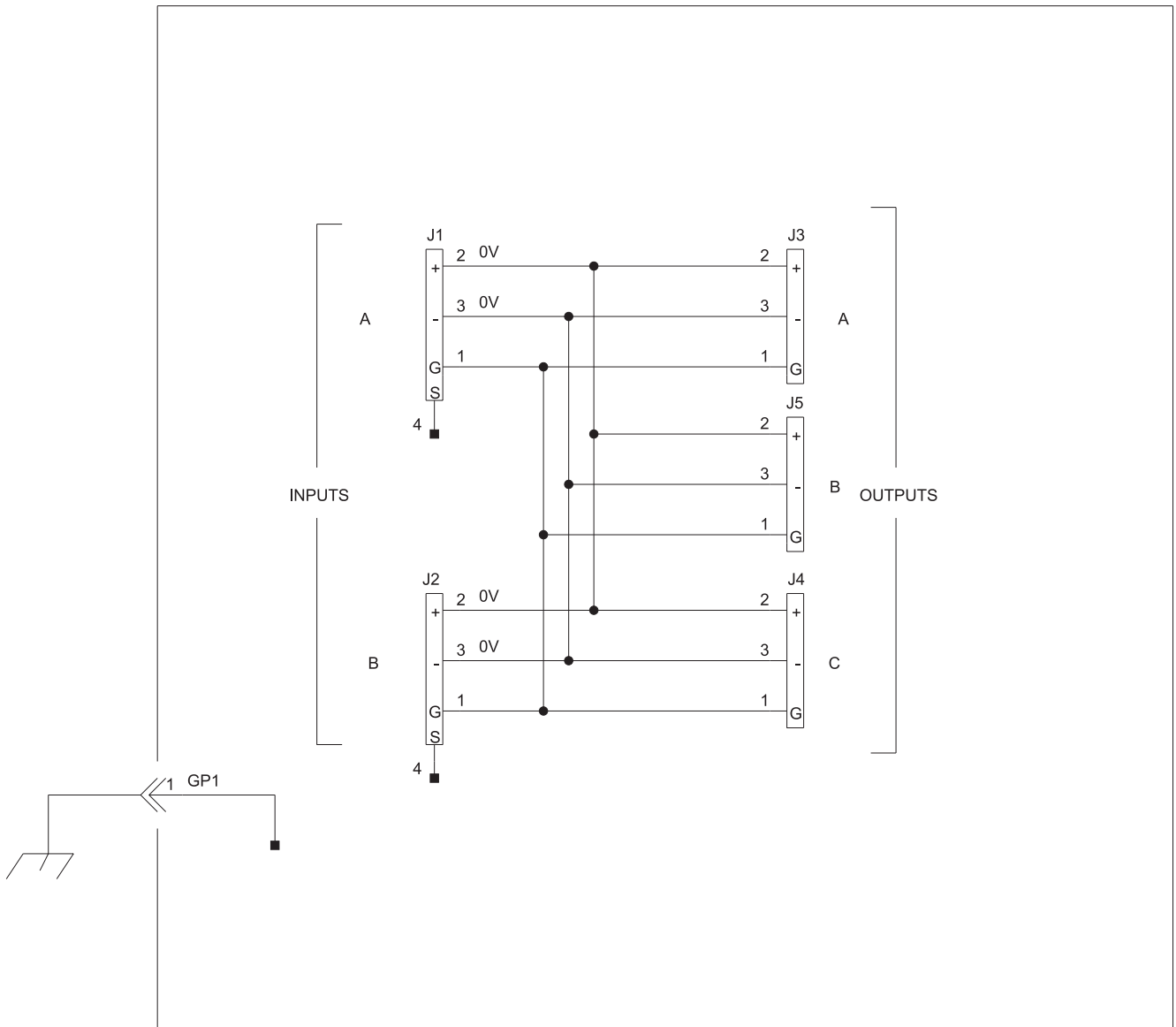
9 *METER 129539 SH and PCB*



10 HEADPHONE 129601 SH and PCB



11 *INTEGRATOR 129614 SH and PCB*



NOTES

PARTS LIST

Ref. No.	Description	Part No.		
MAIN LEFT PCB 129542				
1	PCB Part Number	129542		
2	LOGO			
C1	CAP ELECT 220UF 25V	066507	C93	CAP MONO 100PF 100V 10%
C2	CAP ELECT 47UF 35V	066446	C94	CAP MONO 100PF 100V 10%
C3	CAP ELECT 220UF 25V	066507	C95	CAP MONO 100PF 100V 10%
C4	CAP MONO 100PF 100V 10%	061300	C96	CAP ELECT 10UF 50V
C5	CAP MONO 100PF 100V 10%	061300	C97	CAP MONO 220PF 200V 10%
C6	CAP ELECT 4.7UF 50V	066512	C98	CAP MONO 22PF 200V 10%
C7	CAP ELECT 10UF 50V	066445	C99	CAP MONO 22PF 200V 10%
C8	CAP ELECT 10UF 50V	066445	C100	CAP ELECT 10UF 100VDC
C16	CAP ELECT 47UF 35V	066446	C102	CAP MONO .1UF 50V 20%
C23	CAP ELECT 10UF 16V 4X5 CASE T&R	066555	C103	CAP MONO .1UF 50V 20%
C24	CAP ELECT 10UF 16V 4X5 CASE T&R	066555	C106	CAP ELECT 47UF 35V
C25	CAP ELECT 10UF 16V 4X5 CASE T&R	066555	C107	CAP ELECT 47UF 35V
C26	CAP ELECT 10UF 16V 4X5 CASE T&R	066555	C108	CAP ELECT 10UF 250V
C32	CAP MONO .1UF 50V 20%	061305	C111	CAP MONO .1UF 50V 20%
C33	CAP MONO .1UF 50V 20%	061305	C112	CAP ELECT 10UF 50V
C34	CAP MONO .1UF 50V 20%	061305	C113	CAP MONO .1UF 50V 20%
C35	CAP MONO .1UF 50V 20%	061305	C114	CAP MPF 0.22UF 400VDC
C37	CAP ELECT 4.7UF 50V	066512	C115	CAP MPF 0.22UF 400VDC
C38	CAP MONO 220PF 200V 10%	061301	C116	CAP MONO .1UF 50V 20%
C39	CAP ELECT 10UF 50V	066445	C117	CAP ELECT 10UF 50V
C40	CAP MONO 100PF 100V 10%	061300	C118	CAP MONO 100PF 100V 10%
C41	CAP MONO 100PF 100V 10%	061300	C119	CAP MONO 100PF 100V 10%
C42	CAP MONO 22PF 200V 10%	061298	C120	CAP MONO 22PF 200V 10%
C43	CAP MONO 22PF 200V 10%	061298	C121	CAP MONO 22PF 200V 10%
C44	CAP ELECT 10UF 16V 4X5 CASE T&R	066555	C122	CAP POLY .047UF 10% 1000VDC
C45	CAP ELECT 10UF 16V 4X5 CASE T&R	066555	C123	CAP POLY .047UF 10% 1000VDC
C46	CAP ELECT 10UF 16V 4X5 CASE T&R	066555	C124	CAP ELECT 22UF 100V
C47	CAP ELECT 10UF 16V 4X5 CASE T&R	066555	C125	CAP MONO 22PF 200V 10%
C48	CAP ELECT 10UF 100VDC	066462	C126	CAP MONO 22PF 200V 10%
C50	CAP MONO .1UF 50V 20%	061305	C127	CAP ELECT 10UF 100VDC
C51	CAP MONO .1UF 50V 20%	061305	C129	CAP MONO .1UF 50V 20%
C54	CAP ELECT 10UF 50V	066445	C130	CAP MONO .1UF 50V 20%
C55	CAP ELECT 10UF 50V	066445	C133	CAP MONO 220PF 200V 10%
C56	CAP ELECT 10UF 50V	066445	C134	CAP MONO .1UF 50V 20%
C57	CAP ELECT 10UF 50V	066445	C136	CAP MONO 1000PF 50V 10%
C58	CAP MONO 100PF 100V 10%	061300	C137	CAP ELECT 220UF 25V
C59	CAP MONO 100PF 100V 10%	061300	C138	CAP ELECT 220UF 25V
C60	CAP MONO 100PF 100V 10%	061300	C139	CAP MONO 1000PF 50V 10%
C61	CAP MONO 100PF 100V 10%	061300	C141	CAP MONO 1000PF 50V 10%
C62	CAP MONO 22PF 200V 10%	061298	C143	CAP MONO 1000PF 50V 10%
C63	CAP MONO 22PF 200V 10%	061298	C145	CAP MONO 22PF 200V 10%
C65	CAP ELECT 10UF 100VDC	066462	C146	CAP MONO 22PF 200V 10%
C66	CAP MONO .1UF 50V 20%	061305	C147	CAP ELECT 10UF 100VDC
C69	CAP MONO .1UF 50V 20%	061305	C149	CAP MONO .1UF 50V 20%
C70	CAP ELECT 10UF 50V	066445	C150	CAP MONO .1UF 50V 20%
C71	CAP ELECT 10UF 50V	066445	C153	CAP ELECT 100UF 25V
C72	CAP MONO .1UF 50V 20%	061305	C154	CAP ELECT 100UF 25V
C73	CAP MONO .1UF 50V 20%	061305	C155	CAP MONO 22PF 200V 10%
C76	CAP ELECT 10UF 100VDC	066462	C156	CAP ELECT 10UF 100VDC
C78	CAP MONO 22PF 200V 10%	061298	C157	CAP MONO .1UF 50V 20%
C79	CAP MONO 22PF 200V 10%	061298	C158	CAP MONO .1UF 50V 20%
C80	CAP MONO 22PF 200V 10%	061298	C159	CAP MONO 22PF 200V 10%
C81	CAP MONO 100PF 100V 10%	061300	C160	CAP ELECT 10UF 100VDC
C82	CAP ELECT 10UF 100VDC	066462	C161	CAP ELECT 100UF 25V
C83	CAP MONO .1UF 50V 20%	061305	C162	CAP MONO .1UF 50V 20%
C84	CAP MONO .1UF 50V 20%	061305	C163	CAP MONO .1UF 50V 20%
C85	CAP MONO 100PF 100V 10%	061300	C164	CAP MONO 22PF 200V 10%
C86	CAP ELECT 10UF 50V	066445	C165	CAP MONO .1UF 50V 20%
C87	CAP ELECT 10UF 16V 4X5 CASE T&R	066555	C166	CAP MONO .1UF 50V 20%
C88	CAP ELECT 10UF 50V	066445	C167	CAP ELECT 47UF 35V
C89	CAP ELECT 10UF 50V	066445	C168	CAP MONO 22PF 200V 10%
C90	CAP ELECT 10UF 50V	066445	C177	CAP MONO .1UF 50V 20%
C91	CAP MONO .1UF 50V 20%	061305	D3	DIODE SILICON
C92	CAP MONO 100PF 100V 10%	061300	D4	DIODE SILICON
			D7	DIODE SILICON
			D8	DIODE SILICON
			D9	DIODE SILICON
			D10	DIODE SILICON
			DS1	LED GREEN 3MM HI-INTENSITY
			DS2	LED GREEN 3MM HI-INTENSITY
			GP1	BRACKET PCB CARD MOUNTING

Ref. No.	Description	Part No.			
MAIN LEFT PCB 129542 (Cont'd)					
GP2	BRACKET PCB CARD MOUNTING	3611	R9	RES MF 6.49K .5% 1/4W	144401
J1	JACK PHONO GOLD	117862	R10	RES MF 20K 1% 1/4W	144104
J2	JACK PHONO GOLD	117862	R11	RES MF 20K 1% 1/4W	144104
J3	JACK PHONO GOLD	117862	R12	RES MF 22.1K 1% 1/4W	144187
J4	JACK PHONO GOLD	117862	R13	RES MF 22.1K 1% 1/4W	144187
J5	JACK PHONO GOLD	117862	R14	RES MET OX 430 OHM .5W 5%	137095
J6	JACK PHONO GOLD	117862	R15	RES MET OX 430 OHM .5W 5%	137095
J7	JACK PHONO GOLD	117862	R22	RES MF 267K 1% 1/4W	144118
J8	CONN 12 PIN FFC	117720	R27	RES MF 267K 1% 1/4W	144118
J9	HEADER SHROUDED 2ROW 26PIN V	117870	R28	RES MF 267K 1% 1/4W	144118
J10	HEADER 2 PIN LATCHING	117766	R29	RES MF 182 OHM 1% 1/4W	144273
J11	CONN 12 PIN FFC	117720	R30	RES MF 182 OHM 1% 1/4W	144273
J12	CONN 12 PIN FFC	117720	R31	RES MF 182 OHM 1% 1/4W	144273
J13	HEADER 2 PIN LATCHING	117766	R36	RES MF 100K 1% 1/4W	144113
J14	CONN 12 PIN FFC	117720	R37	RES MF 1K 1% 1/4W	144090
J15	CONN 12 PIN FFC	117720	R38	RES MF 1K 1% 1/4W	144090
J16	CONN 12 PIN FFC	117720	R39	RES MF 1K 1% 1/4W	144090
J17	CONN 12 PIN FFC	117720	R40	RES MF 1K 1% 1/4W	144090
J18	HEADER 2 PIN LATCHING	117766	R42	RES MF 1K 1% 1/4W	144090
K1	RELAY REED FORM 1A 5V 500 OHMS	87050	R43	RES MF 1K 1% 1/4W	144090
K2	RELAY REED FORM 1A 5V 500 OHMS	87050	R44	RES MF 4.75K 1% 1/4W	144097
K3	RELAY REED FORM 1A 5V 500 OHMS	87050	R45	RES MF 4.75K 1% 1/4W	144097
K4	RELAY REED FORM 1A 5V 500 OHMS	87050	R46	RES MF 4.75K 1% 1/4W	144097
K5	RELAY REED FORM 1C 5V 125 OHM	87056	R47	RES MF 4.75K 1% 1/4W	144097
K6	RELAY REED FORM 1A 5V 500 OHMS	87050	R48	RES MF 4.75K 1% 1/4W	144097
K7	RELAY REED FORM 1A 5V 500 OHMS	87050	R49	RES MF 4.75K 1% 1/4W	144097
K8	RELAY REED FORM 1A 5V 500 OHMS	87050	R50	RES MF 100K 1% 1/4W	144113
K9	RELAY REED FORM 1A 5V 500 OHMS	87050	R51	RES MF 33.2K 1% 1/4W	144015
K10	RELAY REED FORM 1A 5V 500 OHMS	87050	R52	RES MF 1K 1% 1/4W	144090
K11	RELAY REED FORM 1A 5V 500 OHMS	87050	R53	RES MF 4.99K 1% 1/4W	144098
K12	RELAY REED FORM 1A 5V 500 OHMS	87050	R54	RES MF 4.99K 1% 1/4W	144098
K13	RELAY REED FORM 1A 5V 500 OHMS	87050	R55	RES MF 2.21 OHM 1% 1/4W	144378
K14	RELAY REED FORM 1A 5V 500 OHMS	87050	R56	RES MF 2.21 OHM 1% 1/4W	144378
K15	RELAY REED FORM 1C 5V 125 OHM	87056	R59	RES MF 47.5K 1% 1/4W	144108
K16	RELAY REED FORM 1C 5V 125 OHM	87056	R60	RES MF 47.5K 1% 1/4W	144108
K17	RELAY REED FORM 1C 5V 125 OHM	87056	R61	RES MF 47.5K 1% 1/4W	144108
K18	RELAY REED FORM 1C 5V 125 OHM	87056	R62	RES MF 47.5K 1% 1/4W	144108
K19	RELAY REED FORM 1A 5V 500 OHMS	87050	R63	RES MF 10 OHM 1% 1/4W	144157
K20	RELAY REED FORM 1A 5V 500 OHMS	87050	R64	RES MF 10 OHM 1% 1/4W	144157
K21	RELAY REED FORM 1A 5V 500 OHMS	87050	R65	RES MF 47.5K 1% 1/4W	144108
K22	RELAY REED FORM 1A 5V 500 OHMS	87050	R66	RES MF 47.5K 1% 1/4W	144108
K23	RELAY REED FORM 1A 5V 500 OHMS	87050	R67	RES MF 267K 1% 1/4W	144118
K24	RELAY REED FORM 1A 5V 500 OHMS	87050	R68	RES MF 267K 1% 1/4W	144118
K25	RELAY REED FORM 1A 5V 500 OHMS	87050	R69	RES MF 267K 1% 1/4W	144118
MC1		50104	R70	RES MF 2.21K 1% 1/4W	144298
Q1	TRANSISTOR NPN	132223	R71	RES MF 267K 1% 1/4W	144118
Q2	TRANSISTOR NPN	132257	R72	RES MF 1K 1% 1/4W	144090
Q3	TRANSISTOR NPN	132257	R73	RES MF 1K 1% 1/4W	144090
Q4	TRANSISTOR PNP	132224	R75	RES MF 2.21K 1% 1/4W	144298
Q5	TRANSISTOR PNP	132224	R79	RES MF 2.21 OHM 1% 1/4W	144378
Q6	TRANSISTOR N JFET	132222	R80	RES MF 2.21 OHM 1% 1/4W	144378
Q7	TRANSISTOR PNP	132224	R81	RES MF 47.5 OHM 1% 1/4W	144442
Q8	TRANSISTOR N JFET	132222	R82	RES MF 47.5 OHM 1% 1/4W	144442
Q9	TRANSISTOR PNP	132224	R83	RES MF 22.1K 1% 1/4W	144187
Q10	TRANSISTOR N JFET	132222	R84	RES MF 22.1K 1% 1/4W	144187
Q11	TRANSISTOR PNP	132224	R85	RES MF 10K 1% 1/4W	144053
Q12	TRANSISTOR N JFET	132222	R86	RES MF 10K 1% 1/4W	144053
Q13	TRANSISTOR NPN	132223	R87	RES MF 2.21 OHM 1% 1/4W	144378
Q14	TRANSISTOR NPN	132223	R88	RES MF 2.21 OHM 1% 1/4W	144378
Q15	TRANSISTOR NPN	132223	R91	RES MF 4.99K 1% 1/4W	144098
R1	RES MF 100 OHM 1% 1/4W	144196	R92	RES MF 4.99K 1% 1/4W	144098
R2	RES MF 4.75K 1% 1/4W	144097	R93	RES MF 4.99K 1% 1/4W	144098
R3	RES MF 1K 1% 1/4W	144090	R94	RES MF 2.21 OHM 1% 1/4W	144378
R4	RES MF 47.5 OHM 1% 1/4W	144442	R95	RES MF 2.21 OHM 1% 1/4W	144378
R5	RES MF 47.5 OHM 1% 1/4W	144442	R96	RES MF 4.99K 1% 1/4W	144098
R6	RES MF 1.82K 1% 1/4W	144296	R97	RES MF 22.1K 1% 1/4W	144187
R7	RES MF 1.82K 1% 1/4W	144296	R98	RES MF 1K 1% 1/4W	144090
R8	RES MF 2.21K 1% 1/4W	144298	R99	RES MF 182 OHM 1% 1/4W	144273
			R100	RES MF 221 OHM 1% 1/4W	144172
			R101	RES MF 33.2K 1% 1/4W	144015
			R102	RES MF 33.2K 1% 1/4W	144015

PARTS LIST *Cont'd*

Ref. No. Description
MAIN LEFT PCB 129542 (Cont'd)

Ref. No.	Description	Part No.
R103	RES MF 1K 1% 1/4W	144090
R104	RES MF 1K 1% 1/4W	144090
R105	RES MF 1K 1% 1/4W	144090
R106	RES MF 8.25K 1% 1/4W	144153
R107	RES MF 4.75K 1% 1/4W	144097
R108	RES MF 4.75K 1% 1/4W	144097
R109	RES MF 2.21 OHM 1% 1/4W	144378
R110	RES MF 2.21 OHM 1% 1/4W	144378
R113	RES MF 1K 1% 1/4W	144090
R114	RES MF 1K 1% 1/4W	144090
R115	RES MF 47.5K 1% 1/4W	144108
R116	RES MF 681 OHM 1% 1/4W	144195
R117	RES MF 681 OHM 1% 1/4W	144195
R118	RES MF 1.21K 1% 1/4W	144191
R119	RES MF 1.21K 1% 1/4W	144191
R120	RES MF 100K 1% 1/4W	144113
R121	RES MF 267K 1% 1/4W	144118
R122	RES MF 267K 1% 1/4W	144118
R123	RES MF 1K 1% 1/4W	144090
R124	RES MF 1K 1% 1/4W	144090
R125	RES MF 2.74K 1% 1/4W	144304
R126	RES MF 2.74K 1% 1/4W	144304
R127	RES MF 221K 1% 1/4W	144421
R128	RES MF 221K 1% 1/4W	144421
R129	RES MF 2.21M 1/4W	144265
R130	RES MF 2.21M 1/4W	144265
R131	RES MF 11K 1% 1/4W	144101
R132	RES MF 11K 1% 1/4W	144101
R133	RES MF 1.5K 1% 1/4W	144128
R134	RES MF 1.5K 1% 1/4W	144128
R135	RES MF 150K 1% 1/4W	144419
R136	RES MF 150K 1% 1/4W	144419
R137	RES MF 33.2K 1% 1/4W	144015
R138	RES MF 100K 1% 1/4W	144113
R139	RES MF 100K 1% 1/4W	144113
R140	RES MF 2.21 OHM 1% 1/4W	144378
R141	RES MF 2.21 OHM 1% 1/4W	144378
R144	RES MF 1K 1% 1/4W	144090
R145	RES MF 1K 1% 1/4W	144090
R146	RES MF 100 OHM 1% 1/4W	144196
R147	RES MF 100 OHM 1% 1/4W	144196
R148	RES MF 4.75K 1% 1/4W	144097
R149	RES MF 4.75K 1% 1/4W	144097
R150	RES MF 221K 1% 1/4W	144421
R151	RES MF 10K 1% 1/4W	144053
R152	RES MF 2.21K .5% 1/4W	144396
R153	RES MF 200K 1% 1/4W	144117
R154	RES MF 10K 1% 1/4W	144053
R155	RES MF 2.21K .5% 1/4W	144396
R156	RES MF 1M 1/4W	144269
R157	RES MF 475K 1% 1/4W	144364
R158	RES MF 10K 1% 1/4W	144053
R160	RES MF 5.36K .5% 1/4W	144399
R161	RES MF 5.36K .5% 1/4W	144399
R162	RES MF 200K 1% 1/4W	144117
R164	RES MF 1M 1/4W	144269
R165	RES MF 475K 1% 1/4W	144364
R168	RES MF 3.79k .1% 1/4W	144398
R169	RES MF 3.79k .1% 1/4W	144398
R170	RES MF 200K 1% 1/4W	144117
R172	RES MF 100K 1% 1/4W	144113
R173	RES MF 100K 1% 1/4W	144113
R174	RES MF 1M 1/4W	144269
R175	RES MF 475K 1% 1/4W	144364
R178	RES MF 2.67K .5% 1/4W	144397

R179	RES MF 200K 1% 1/4W	144117
R180	RES MF 2.67K .5% 1/4W	144397
R182	RES MF 1M 1/4W	144269
R183	RES MF 475K 1% 1/4W	144364
R186	RES MF 1.91K .5% 1/4W	144395
R187	RES MF 1.91K .5% 1/4W	144395
R190	RES MF 2.21 OHM 1% 1/4W	144378
R191	RES MF 2.21 OHM 1% 1/4W	144378
R194	RES MF 6.49K .5% 1/4W	144401
R195	RES MF 6.49K .5% 1/4W	144401
R196	RES MF 3.32K 1% 1/4W	144095
R197	RES MF 3.32K 1% 1/4W	144095
R198	RES MF 2.21 OHM 1% 1/4W	144378
R199	RES MF 2.21 OHM 1% 1/4W	144378
R200	RES MF 1K 1% 1/4W	144090
R201	RES MF 2.21 OHM 1% 1/4W	144378
R202	RES MF 2.21 OHM 1% 1/4W	144378
R203	RES MF 33.2K 1% 1/4W	144015
R204	RES MF 221 OHM 1% 1/4W	144172
R205	RES MF 2.21 OHM 1% 1/4W	144378
R206	RES MF 2.21 OHM 1% 1/4W	144378
R207	RES MF 182 OHM 1% 1/4W	144273
R208	RES MF 182 OHM 1% 1/4W	144273
R210	RES MF 33.2K 1% 1/4W	144015
R211	RES MF 33.2K 1% 1/4W	144015
R212	RES MF 6.49K .5% 1/4W	144401
R213	RES MF 221 OHM 1% 1/4W	144172
R214	RES MF 2.21K 1% 1/4W	144298
R220	RES MF 1K 1% 1/4W	144090
RIAA1		
U1	IC STEREO DGTL VOLUME CONTROL	133331
U2	IC SHFT REG SER-PAR	133186
U3	IC OCTAL DARLNGTON TRANS ARRAY	133258(1)
		178109(1)
U4	IC OCTAL DARLNGTON TRANS ARRAY	133258(1)
		178109(1)
U5	IC OCTAL DARLNGTON TRANS ARRAY	133258(1)
		178109(1)
U6	IC OCTAL DARLNGTON TRANS ARRAY	133258(1)
		178109(1)
U7	IC SHFT REG SER-PAR	133186
U8	IC SHFT REG SER-PAR	133186
U9	IC SHFT REG SER-PAR	133186
U10	IC SHFT REG SER-PAR	133186
U11	IC OPERATIONAL AMP LOW NOISE	133067
U12	IC OPERATIONAL AMP LOW NOISE	133067
U13	IC OPERATIONAL AMP LOW NOISE	133067
U14	IC OPERATIONAL AMP LOW NOISE	133067
U15	IC OPERATIONAL AMP LOW NOISE	133067
U16	IC OPERATIONAL AMP LOW NOISE	133067
U17	IC OPERATIONAL AMP LOW NOISE	133067
U18	IC OPERATIONAL AMP LOW NOISE	133067
U19	IC OPERATIONAL AMP LOW NOISE	133067
U20	IC REGULATOR 5V	133250
U21	IC -5V REGULATOR	133253
U22	IC REGULATOR 5V	133250
U23	IC -5V REGULATOR	133253
U24	IC OPERATIONAL AMP LOW NOISE	133067
U25	IC OPERATIONAL AMP LOW NOISE	133067
U26	IC SHFT REG SER-PAR	133186
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
U32	IC OPERATIONAL AMP LOW NOISE	133067
V3	TUBE ELEC 12AX7A MCINTOSH	165065(1)
		178170(1)
V4	TUBE ELEC 12AX7A MCINTOSH	165065(1)
		178170(1)

Ref. No.	Description	Part No.			
MAIN LEFT PCB 129544					
1	PCB Part Number	129544			
2	LOGO				
C1	CAP ELECT 220UF 25V	066507	C96	CAP ELECT 10UF 50V	066445
C2	CAP ELECT 47UF 35V	066446	C97	CAP MONO 220PF 200V 10%	061301
C3	CAP ELECT 220UF 25V	066507	C98	CAP MONO 22PF 200V 10%	061298
C4	CAP MONO 100PF 100V 10%	061300	C99	CAP MONO 22PF 200V 10%	061298
C5	CAP MONO 100PF 100V 10%	061300	C100	CAP ELECT 10UF 100VDC	066462
C6	CAP ELECT 4.7UF 50V	066512	C102	CAP MONO .1UF 50V 20%	061305
C7	CAP ELECT 10UF 50V	066445	C103	CAP MONO .1UF 50V 20%	061305
C8	CAP ELECT 10UF 50V	066445	C106	CAP ELECT 47UF 35V	066446
C16	CAP ELECT 47UF 35V	066446	C107	CAP ELECT 47UF 35V	066446
C23	CAP ELECT 10UF 16V 4X5 CASE T&R	066555	C108	CAP ELECT 10UF 250V	66493
C24	CAP ELECT 10UF 16V 4X5 CASE T&R	066555	C111	CAP MONO .1UF 50V 20%	061305
C25	CAP ELECT 10UF 16V 4X5 CASE T&R	066555	C112	CAP ELECT 10UF 50V	066445
C26	CAP ELECT 10UF 16V 4X5 CASE T&R	066555	C113	CAP MONO .1UF 50V 20%	061305
C32	CAP MONO .1UF 50V 20%	061305	C114	CAP MPF 0.22UF 400VDC	64438
C33	CAP MONO .1UF 50V 20%	061305	C115	CAP MPF 0.22UF 400VDC	64438
C34	CAP MONO .1UF 50V 20%	061305	C116	CAP MONO .1UF 50V 20%	061305
C35	CAP MONO .1UF 50V 20%	061305	C117	CAP ELECT 10UF 50V	066445
C37	CAP ELECT 4.7UF 50V	066512	C118	CAP MONO 100PF 100V 10%	061300
C38	CAP MONO 220PF 200V 10%	061301	C119	CAP MONO 100PF 100V 10%	061300
C39	CAP ELECT 10UF 50V	066445	C120	CAP MONO 22PF 200V 10%	061298
C40	CAP MONO 100PF 100V 10%	061300	C121	CAP MONO 22PF 200V 10%	061298
C41	CAP MONO 100PF 100V 10%	061300	C122	CAP POLY .047UF 10% 1000VDC	64434
C42	CAP MONO 22PF 200V 10%	061298	C123	CAP POLY .047UF 10% 1000VDC	64434
C43	CAP MONO 22PF 200V 10%	061298	C124	CAP ELECT 22UF 100V	066506
C44	CAP ELECT 10UF 16V 4X5 CASE T&R	066555	C125	CAP MONO 22PF 200V 10%	061298
C45	CAP ELECT 10UF 16V 4X5 CASE T&R	066555	C126	CAP MONO 22PF 200V 10%	061298
C46	CAP ELECT 10UF 16V 4X5 CASE T&R	066555	C127	CAP ELECT 10UF 100VDC	066462
C47	CAP ELECT 10UF 16V 4X5 CASE T&R	066555	C129	CAP MONO .1UF 50V 20%	061305
C48	CAP ELECT 10UF 100VDC	066462	C130	CAP MONO .1UF 50V 20%	061305
C50	CAP MONO .1UF 50V 20%	061305	C133	CAP MONO 220PF 200V 10%	061301
C51	CAP MONO .1UF 50V 20%	061305	C134	CAP MONO .1UF 50V 20%	061305
C54	CAP ELECT 10UF 50V	066445	C136	CAP MONO 1000PF 50V 10%	061303
C55	CAP ELECT 10UF 50V	066445	C137	CAP ELECT 220UF 25V	066507
C56	CAP ELECT 10UF 50V	066445	C138	CAP ELECT 220UF 25V	066507
C57	CAP ELECT 10UF 50V	066445	C139	CAP MONO 1000PF 50V 10%	061303
C58	CAP MONO 100PF 100V 10%	061300	C141	CAP MONO 1000PF 50V 10%	061303
C59	CAP MONO 100PF 100V 10%	061300	C143	CAP MONO 1000PF 50V 10%	061303
C60	CAP MONO 100PF 100V 10%	061300	C145	CAP MONO 22PF 200V 10%	061298
C61	CAP MONO 100PF 100V 10%	061300	C146	CAP MONO 22PF 200V 10%	061298
C62	CAP MONO 22PF 200V 10%	061298	C147	CAP ELECT 10UF 100VDC	066462
C63	CAP MONO 22PF 200V 10%	061298	C149	CAP MONO .1UF 50V 20%	061305
C65	CAP ELECT 10UF 100VDC	066462	C150	CAP MONO .1UF 50V 20%	061305
C66	CAP MONO .1UF 50V 20%	061305	C153	CAP ELECT 100UF 25V	066447
C69	CAP MONO .1UF 50V 20%	061305	C154	CAP ELECT 100UF 25V	066447
C70	CAP ELECT 10UF 50V	066445	C155	CAP MONO 22PF 200V 10%	061298
C71	CAP ELECT 10UF 50V	066445	C156	CAP ELECT 10UF 100VDC	066462
C72	CAP MONO .1UF 50V 20%	061305	C157	CAP MONO .1UF 50V 20%	061305
C73	CAP MONO .1UF 50V 20%	061305	C158	CAP MONO .1UF 50V 20%	061305
C76	CAP ELECT 10UF 100VDC	066462	C159	CAP MONO 22PF 200V 10%	061298
C78	CAP MONO 22PF 200V 10%	061298	C160	CAP ELECT 10UF 100VDC	066462
C79	CAP MONO 22PF 200V 10%	061298	C161	CAP ELECT 100UF 25V	066447
C80	CAP MONO 22PF 200V 10%	061298	C162	CAP MONO .1UF 50V 20%	061305
C81	CAP MONO 100PF 100V 10%	061300	C163	CAP MONO .1UF 50V 20%	061305
C82	CAP ELECT 10UF 100VDC	066462	C164	CAP MONO 22PF 200V 10%	061298
C83	CAP MONO .1UF 50V 20%	061305	C165	CAP MONO .1UF 50V 20%	061305
C84	CAP MONO .1UF 50V 20%	061305	C166	CAP MONO .1UF 50V 20%	061305
C85	CAP MONO 100PF 100V 10%	061300	C167	CAP ELECT 47UF 35V	066446
C86	CAP ELECT 10UF 50V	066445	C168	CAP MONO 22PF 200V 10%	061298
C87	CAP ELECT 10UF 16V 4X5 CASE T&R	066555	C177	CAP MONO .1UF 50V 20%	061305
C88	CAP ELECT 10UF 50V	066445	D3	DIODE SILICON	070047
C89	CAP ELECT 10UF 50V	066445	D4	DIODE SILICON	070047
C90	CAP ELECT 10UF 50V	066445	D7	DIODE SILICON	070047
C91	CAP MONO .1UF 50V 20%	061305	D8	DIODE SILICON	070047
C92	CAP MONO 100PF 100V 10%	061300	D9	DIODE SILICON	070047
C93	CAP MONO 100PF 100V 10%	061300	D10	DIODE SILICON	070047
C94	CAP MONO 100PF 100V 10%	061300	DS1	LED GREEN 3MM HI-INTENSITY	58172
C95	CAP MONO 100PF 100V 10%	061300	DS2	LED GREEN 3MM HI-INTENSITY	58172
			GP1	BRACKET PCB CARD MOUNTING	3611
			GP2	BRACKET PCB CARD MOUNTING	3611
			J1	JACK PHONO GOLD	117862
			J2	JACK PHONO GOLD	117862

PARTS LIST *Cont'd*

Ref. No.	Description	Part No.			
MAIN RIGHT PCB 129544 (Cont'd)					
J3	JACK PHONO GOLD	117862	R8	RES MF 2.21K 1% 1/4W	144298
J4	JACK PHONO GOLD	117862	R9	RES MF 6.49K .5% 1/4W	144401
J5	JACK PHONO GOLD	117862	R10	RES MF 20K 1% 1/4W	144104
J6	JACK PHONO GOLD	117862	R11	RES MF 20K 1% 1/4W	144104
J7	JACK PHONO GOLD	117862	R12	RES MF 22.1K 1% 1/4W	144187
J8	CONN 12 PIN FFC	117720	R13	RES MF 22.1K 1% 1/4W	144187
J9	HEADER SHROUDED 2ROW 26PIN V	117870	R14	RES MET OX 430 OHM .5W 5%	137095
J10	HEADER 2 PIN LATCHING	117766	R15	RES MET OX 430 OHM .5W 5%	137095
J11	CONN 12 PIN FFC	117720	R22	RES MF 267K 1% 1/4W	144118
J12	CONN 12 PIN FFC	117720	R27	RES MF 267K 1% 1/4W	144118
J13	HEADER 2 PIN LATCHING	117766	R28	RES MF 267K 1% 1/4W	144118
J14	CONN 12 PIN FFC	117720	R29	RES MF 182 OHM 1% 1/4W	144273
J15	CONN 12 PIN FFC	117720	R30	RES MF 182 OHM 1% 1/4W	144273
J16	CONN 12 PIN FFC	117720	R31	RES MF 182 OHM 1% 1/4W	144273
J17	CONN 12 PIN FFC	117720	R32	RES MF 4.75K 1% 1/4W	144097
J18	HEADER 2 PIN LATCHING	117766	R33	RES MF 100 OHM 1% 1/4W	144196
J19	HEADER 2 PIN LATCHING	117766	R36	RES MF 100K 1% 1/4W	144113
K1	RELAY REED FORM 1A 5V 500 OHMS	87050	R37	RES MF 1K 1% 1/4W	144090
K2	RELAY REED FORM 1A 5V 500 OHMS	87050	R38	RES MF 1K 1% 1/4W	144090
K3	RELAY REED FORM 1A 5V 500 OHMS	87050	R39	RES MF 1K 1% 1/4W	144090
K4	RELAY REED FORM 1A 5V 500 OHMS	87050	R40	RES MF 1K 1% 1/4W	144090
K5	RELAY REED FORM 1C 5V 125 OHM	87056	R42	RES MF 1K 1% 1/4W	144090
K6	RELAY REED FORM 1A 5V 500 OHMS	87050	R43	RES MF 1K 1% 1/4W	144090
K7	RELAY REED FORM 1A 5V 500 OHMS	87050	R44	RES MF 4.75K 1% 1/4W	144097
K8	RELAY REED FORM 1A 5V 500 OHMS	87050	R45	RES MF 4.75K 1% 1/4W	144097
K9	RELAY REED FORM 1A 5V 500 OHMS	87050	R46	RES MF 4.75K 1% 1/4W	144097
K10	RELAY REED FORM 1A 5V 500 OHMS	87050	R47	RES MF 4.75K 1% 1/4W	144097
K11	RELAY REED FORM 1A 5V 500 OHMS	87050	R48	RES MF 4.75K 1% 1/4W	144097
K12	RELAY REED FORM 1A 5V 500 OHMS	87050	R49	RES MF 4.75K 1% 1/4W	144097
K13	RELAY REED FORM 1A 5V 500 OHMS	87050	R50	RES MF 100K 1% 1/4W	144113
K14	RELAY REED FORM 1A 5V 500 OHMS	87050	R51	RES MF 33.2K 1% 1/4W	144015
K15	RELAY REED FORM 1C 5V 125 OHM	87056	R52	RES MF 1K 1% 1/4W	144090
K16	RELAY REED FORM 1A 5V 500 OHMS	87050	R53	RES MF 4.99K 1% 1/4W	144098
K17	RELAY REED FORM 1C 5V 125 OHM	87056	R54	RES MF 4.99K 1% 1/4W	144098
K18	RELAY REED FORM 1A 5V 500 OHMS	87050	R55	RES MF 2.21 OHM 1% 1/4W	144378
K19	RELAY REED FORM 1A 5V 500 OHMS	87050	R56	RES MF 2.21 OHM 1% 1/4W	144378
K20	RELAY REED FORM 1A 5V 500 OHMS	87050	R59	RES MF 47.5K 1% 1/4W	144108
K21	RELAY REED FORM 1A 5V 500 OHMS	87050	R60	RES MF 47.5K 1% 1/4W	144108
K22	RELAY REED FORM 1A 5V 500 OHMS	87050	R61	RES MF 47.5K 1% 1/4W	144108
K23	RELAY REED FORM 1A 5V 500 OHMS	87050	R62	RES MF 47.5K 1% 1/4W	144108
K24	RELAY REED FORM 1A 5V 500 OHMS	87050	R63	RES MF 10 OHM 1% 1/4W	144157
K25	RELAY REED FORM 1A 5V 500 OHMS	87050	R64	RES MF 10 OHM 1% 1/4W	144157
MC1		50104	R65	RES MF 47.5K 1% 1/4W	144108
Q1	TRANSISTOR NPN	132223	R66	RES MF 47.5K 1% 1/4W	144108
Q2	TRANSISTOR NPN	132257	R67	RES MF 267K 1% 1/4W	144118
Q3	TRANSISTOR NPN	132257	R68	RES MF 267K 1% 1/4W	144118
Q4	TRANSISTOR PNP	132224	R69	RES MF 267K 1% 1/4W	144118
Q5	TRANSISTOR PNP	132224	R70	RES MF 2.21K 1% 1/4W	144298
Q6	TRANSISTOR N JFET	132222	R71	RES MF 267K 1% 1/4W	144118
Q7	TRANSISTOR PNP	132224	R72	RES MF 1K 1% 1/4W	144090
Q8	TRANSISTOR N JFET	132222	R73	RES MF 1K 1% 1/4W	144090
Q9	TRANSISTOR PNP	132224	R75	RES MF 2.21K 1% 1/4W	144298
Q10	TRANSISTOR N JFET	132222	R79	RES MF 2.21 OHM 1% 1/4W	144378
Q11	TRANSISTOR PNP	132224	R80	RES MF 2.21 OHM 1% 1/4W	144378
Q12	TRANSISTOR N JFET	132222	R81	RES MF 47.5 OHM 1% 1/4W	144442
Q13	TRANSISTOR NPN	132223	R82	RES MF 47.5 OHM 1% 1/4W	144442
Q14	TRANSISTOR NPN	132223	R83	RES MF 22.1K 1% 1/4W	144187
Q15	TRANSISTOR NPN	132223	R84	RES MF 22.1K 1% 1/4W	144187
Q55	TRANSISTOR NPN	132223	R85	RES MF 10K 1% 1/4W	144053
R1	RES MF 100 OHM 1% 1/4W	144196	R86	RES MF 10K 1% 1/4W	144053
R2	RES MF 4.75K 1% 1/4W	144097	R87	RES MF 2.21 OHM 1% 1/4W	144378
R3	RES MF 1K 1% 1/4W	144090	R88	RES MF 2.21 OHM 1% 1/4W	144378
R4	RES MF 47.5 OHM 1% 1/4W	144442	R91	RES MF 4.99K 1% 1/4W	144098
R5	RES MF 47.5 OHM 1% 1/4W	144442	R92	RES MF 4.99K 1% 1/4W	144098
R6	RES MF 1.82K 1% 1/4W	144296	R93	RES MF 4.99K 1% 1/4W	144098
R7	RES MF 1.82K 1% 1/4W	144296	R94	RES MF 2.21 OHM 1% 1/4W	144378
			R95	RES MF 2.21 OHM 1% 1/4W	144378
			R96	RES MF 4.99K 1% 1/4W	144098
			R97	RES MF 22.1K 1% 1/4W	144187
			R98	RES MF 1K 1% 1/4W	144090
			R99	RES MF 182 OHM 1% 1/4W	144273

Ref. No.	Description	Part No.			
MAIN RIGHT PCB 129544 (Cont'd)					
R100	RES MF 221 OHM 1% 1/4W	144172	R179	RES MF 200K 1% 1/4W	144117
R101	RES MF 33.2K 1% 1/4W	144015	R180	RES MF 2.67K .5% 1/4W	144397
R102	RES MF 33.2K 1% 1/4W	144015	R182	RES MF 1M 1/4W	144269
R103	RES MF 1K 1% 1/4W	144090	R183	RES MF 475K 1% 1/4W	144364
R104	RES MF 1K 1% 1/4W	144090	R186	RES MF 1.91K .5% 1/4W	144395
R105	RES MF 1K 1% 1/4W	144090	R187	RES MF 1.91K .5% 1/4W	144395
R106	RES MF 8.25K 1% 1/4W	144153	R190	RES MF 2.21 OHM 1% 1/4W	144378
R107	RES MF 4.75K 1% 1/4W	144097	R191	RES MF 2.21 OHM 1% 1/4W	144378
R108	RES MF 4.75K 1% 1/4W	144097	R194	RES MF 6.49K .5% 1/4W	144401
R109	RES MF 2.21 OHM 1% 1/4W	144378	R195	RES MF 6.49K .5% 1/4W	144401
R110	RES MF 2.21 OHM 1% 1/4W	144378	R196	RES MF 3.32K 1% 1/4W	144095
R113	RES MF 1K 1% 1/4W	144090	R197	RES MF 3.32K 1% 1/4W	144095
R114	RES MF 1K 1% 1/4W	144090	R198	RES MF 2.21 OHM 1% 1/4W	144378
R115	RES MF 47.5K 1% 1/4W	144108	R199	RES MF 2.21 OHM 1% 1/4W	144378
R116	RES MF 681 OHM 1% 1/4W	144195	R200	RES MF 1K 1% 1/4W	144090
R117	RES MF 681 OHM 1% 1/4W	144195	R201	RES MF 2.21 OHM 1% 1/4W	144378
R118	RES MF 1.21K 1% 1/4W	144191	R202	RES MF 2.21 OHM 1% 1/4W	144378
R119	RES MF 1.21K 1% 1/4W	144191	R203	RES MF 33.2K 1% 1/4W	144015
R120	RES MF 100K 1% 1/4W	144113	R204	RES MF 221 OHM 1% 1/4W	144172
R121	RES MF 267K 1% 1/4W	144118	R205	RES MF 2.21 OHM 1% 1/4W	144378
R122	RES MF 267K 1% 1/4W	144118	R206	RES MF 2.21 OHM 1% 1/4W	144378
R123	RES MF 1K 1% 1/4W	144090	R207	RES MF 182 OHM 1% 1/4W	144273
R124	RES MF 1K 1% 1/4W	144090	R208	RES MF 182 OHM 1% 1/4W	144273
R125	RES MF 2.74K 1% 1/4W	144304	R210	RES MF 33.2K 1% 1/4W	144015
R126	RES MF 2.74K 1% 1/4W	144304	R211	RES MF 33.2K 1% 1/4W	144015
R127	RES MF 221K 1% 1/4W	144421	R212	RES MF 6.49K .5% 1/4W	144401
R128	RES MF 221K 1% 1/4W	144421	R213	RES MF 221 OHM 1% 1/4W	144172
R129	RES MF 2.21M 1/4W	144265	R214	RES MF 2.21K 1% 1/4W	144298
R130	RES MF 2.21M 1/4W	144265	R220	RES MF 1K 1% 1/4W	144090
R131	RES MF 11K 1% 1/4W	144101	RIAA1		
R132	RES MF 11K 1% 1/4W	144101	U1	IC STEREO DGTL VOLUME CONTROL	133331
R133	RES MF 1.5K 1% 1/4W	144128	U2	IC SHFT REG SER-PAR	133186
R134	RES MF 1.5K 1% 1/4W	144128	U3	IC OCTAL DARLNGTON TRANS ARRAY	133258(1)
R135	RES MF 150K 1% 1/4W	144419			178109(1)
R136	RES MF 150K 1% 1/4W	144419	U4	IC OCTAL DARLNGTON TRANS ARRAY	133258(1)
R137	RES MF 33.2K 1% 1/4W	144015			178109(1)
R138	RES MF 100K 1% 1/4W	144113	U5	IC OCTAL DARLNGTON TRANS ARRAY	133258(1)
R139	RES MF 100K 1% 1/4W	144113			178109(1)
R140	RES MF 2.21 OHM 1% 1/4W	144378	U6	IC OCTAL DARLNGTON TRANS ARRAY	133258(1)
R141	RES MF 2.21 OHM 1% 1/4W	144378			178109(1)
R144	RES MF 1K 1% 1/4W	144090	U7	IC SHFT REG SER-PAR	133186
R145	RES MF 1K 1% 1/4W	144090	U8	IC SHFT REG SER-PAR	133186
R146	RES MF 100 OHM 1% 1/4W	144196	U9	IC SHFT REG SER-PAR	133186
R147	RES MF 100 OHM 1% 1/4W	144196	U10	IC SHFT REG SER-PAR	133186
R148	RES MF 4.75K 1% 1/4W	144097	U11	IC OPERATIONAL AMP LOW NOISE	133067
R149	RES MF 4.75K 1% 1/4W	144097	U12	IC OPERATIONAL AMP LOW NOISE	133067
R150	RES MF 221K 1% 1/4W	144421	U13	IC OPERATIONAL AMP LOW NOISE	133067
R151	RES MF 10K 1% 1/4W	144053	U14	IC OPERATIONAL AMP LOW NOISE	133067
R152	RES MF 2.21K .5% 1/4W	144396	U15	IC OPERATIONAL AMP LOW NOISE	133067
R153	RES MF 200K 1% 1/4W	144117	U16	IC OPERATIONAL AMP LOW NOISE	133067
R154	RES MF 10K 1% 1/4W	144053	U17	IC OPERATIONAL AMP LOW NOISE	133067
R155	RES MF 2.21K .5% 1/4W	144396	U18	IC OPERATIONAL AMP LOW NOISE	133067
R156	RES MF 1M 1/4W	144269	U19	IC OPERATIONAL AMP LOW NOISE	133067
R157	RES MF 475K 1% 1/4W	144364	U20	IC REGULATOR 5V	133250
R160	RES MF 5.36K .5% 1/4W	144399	U21	IC -5V REGULATOR	133253
R161	RES MF 5.36K .5% 1/4W	144399	U22	IC REGULATOR 5V	133250
R162	RES MF 200K 1% 1/4W	144117	U23	IC -5V REGULATOR	133253
R164	RES MF 1M 1/4W	144269	U24	IC OPERATIONAL AMP LOW NOISE	133067
R165	RES MF 475K 1% 1/4W	144364	U25	IC OPERATIONAL AMP LOW NOISE	133067
R168	RES MF 3.79k .1% 1/4W	144398	U26	IC SHFT REG SER-PAR	133186
R169	RES MF 3.79k .1% 1/4W	144398	U27	IC OPERATIONAL AMP LOW NOISE	133067
R170	RES MF 200K 1% 1/4W	144117	U28	IC OPERATIONAL AMP LOW NOISE	133067
R172	RES MF 100K 1% 1/4W	144113	U29	IC OPERATIONAL AMP LOW NOISE	133067
R173	RES MF 100K 1% 1/4W	144113	U30	IC OPERATIONAL AMP LOW NOISE	133067
R174	RES MF 1M 1/4W	144269	U31	IC OPERATIONAL AMP LOW NOISE	133067
R175	RES MF 475K 1% 1/4W	144364	U32	IC OPERATIONAL AMP LOW NOISE	133067
R178	RES MF 2.67K .5% 1/4W	144397	V3	TUBE ELEC 12AX7A MCINTOSH	165065(1)
			V4	TUBE ELEC 12AX7A MCINTOSH	178170(1)
					178170(1)

PARTS LIST Cont'd

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

Ref. No.	Description	Part No.
BALANCE I/O LEFT PCB 129538		
1	PCB Part Number	129538
2	LOGO	
C1	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
C4	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
C7	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
C10	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
D1	DIODE SILICON 1N4148	070047
D2	DIODE SILICON 1N4148	070047

Ref. No.	Description	Part No.
BALANCE I/O RIGHT PCB 129540		
1	PCB Part Number	129540
2	LOGO	
C1	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
C4	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
C7	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
C10	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
D1	DIODE SILICON 1N4148	070047
D2	DIODE SILICON 1N4148	070047
D3	DIODE SILICON 1N4148	070047
J1	XLR FEMALE VERTICAL WITH LATCH	117813
J2	XLR FEMALE VERTICAL WITH LATCH	117813

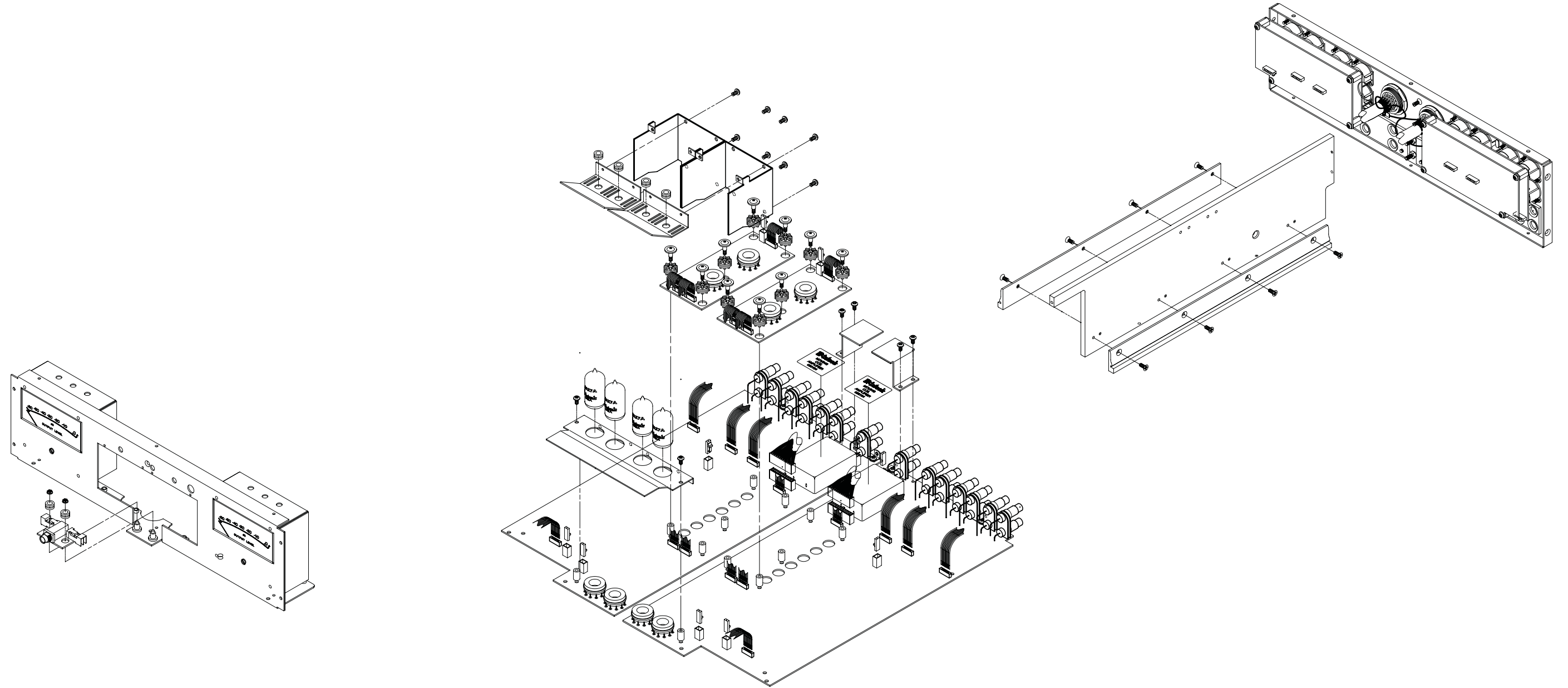
PARTS LIST Cont'd

Ref. No.	Description	Part No.	Ref. No.	Description	Part No.
BALANCE SWITCHING RIGHT PCB 129560 (Cont'd)			R26	RES MF 267K 1% 1/4W	144118
C10	CAP MONO .1uF 50V 20% Z5U	061305	R27	RES MF 267K 1% 1/4W	144118
C11	CAP MONO .1uF 50V 20% Z5U	061305	R28	RES MF 267K 1% 1/4W	144118
C14	CAP ELECT 47UF 35V	066446	R29	RES MF 1K 1% 1/4W	144090
C15	CAP ELECT 47UF 35V	066446	Ref. No. Description Part No.		
C16	CAP ELECT 47UF 35V	066446	METER PCB 129539		
C17	CAP MONO .1uF 50V 20% Z5U	061305	2	LOGO	
C18	CAP MONO .1uF 50V 20% Z5U	061305	C1	CAP MONO .1UF 50V 20%	061305
C19	CAP ELECT 10UF 100VDC	066462	C2	CAP ELECT 10UF 16V 4X5 CASE T&R	066555
C21	CAP MONO 22PF 200V 10% NPO	061298	C3	CAP MONO .1UF 50V 20%	061305
C22	CAP ELECT 47UF 35V	066446	C4	CAP MONO .1UF 50V 20%	061305
C23	CAP MONO .1uF 50V 20% Z5U	061305	C6	CAP ELECT 47UF 16V 6.3X5 CASE	066380
C24	CAP MONO .1uF 50V 20% Z5U	061305	C7	CAP MPF 0.47UF 5% 50/63VDC	64333
C25	CAP ELECT 10UF 100VDC	066462	C8	CAP MONO .1UF 50V 20%	061305
C27	CAP MONO 22PF 200V 10% NPO	061298	C40	CAP MONO 22PF 200V 10% NPO	061298
C30	CAP MONO 100PF 100V 10% NPO	061300	D1	DIODE ZENER 5V	70132
C31	CAP MONO .1uF 50V 20% Z5U	061305	D2	DIODE SILICON	070047
C32	CAP MONO .1uF 50V 20% Z5U	061305	D3	DIODE ZENER 5V	70132
C35	CAP ELECT 10UF 100VDC	066462	D4	DIODE SILICON	070047
C37	CAP MONO 100PF 100V 10% NPO	061300	D6	DIODE SILICON	070047
C38	CAP MONO 22PF 200V 10% NPO	061298	D8	DIODE SILICON	070047
C39	CAP MONO 22PF 200V 10% NPO	061298	D9	DIODE SILICON	070047
C40	CAP MONO 100PF 100V 10% NPO	061300	D12	DIODE SILICON	070047
C41	CAP MONO 100PF 100V 10% NPO	061300	DS1	LED BLUE 5MM HI-INT VF[V] 3.6	058166(1)
C42	CAP MONO 100PF 100V 10% NPO	061300			112108(1)
C43	CAP MONO 100PF 100V 10% NPO	061300	DS2	LED BLUE-GREEN HI-INTENSITY VF[V] 3.5	058176(1)
C44	CAP ELECT 10UF 50V	066445			112108(1)
C45	CAP ELECT 10UF 50V	066445	DS5	LED BLUE 5MM HI-INT VF[V] 3.6	058166(1)
C46	CAP ELECT 10UF 50V	066445			112108(1)
D1	DIODE SILICON 1N4148	070047	DS6	LED BLUE-GREEN HI-INTENSITY VF[V] 3.5	058176(1)
IC1	IC OPERATIONAL AMP LOW NOISE	133067			112108(1)
IC2	IC OPERATIONAL AMP LOW NOISE	133067	J1	CONN 12 PIN FFC	117720
IC3	IC OPERATIONAL AMP LOW NOISE	133067	J3	CONNECTOR HEADER 2PIN RT ANGLE	117873
IC4	IC OPERATIONAL AMP LOW NOISE	133067	Q1	TRANSISTOR NPN	132223
IC5	IC OPERATIONAL AMP LOW NOISE	133067	Q3	TRANSISTOR NPN	132223
IC6	IC OPERATIONAL AMP LOW NOISE	133067	Q5	TRANSISTOR NPN	132223
J1	CONN 12 PIN FFC	117720	Q7	TRANSISTOR NPN SILICON	132171
J2	CONN 12 PIN FFC	117720	Q9	TRANSISTOR NPN	132223
J3	SOCKET STRIP 14 PIN .025 SQ	117644	R1	RES MF 100 OHM 1% 1/4W	144196
J4	SOCKET STRIP 14 PIN .025 SQ	117644	R2	RES MF 1.5K 1% 1/4W	144128
K1	RELAY REED FORM 1A 5V 500 OHMS	87050	R3	RES MF 806 OHM 1% 1/4W	144089
K2	RELAY REED FORM 1A 5V 500 OHMS	87050	R4	RES MF 10 OHM 1% 1/4W	144157
K3	RELAY REED FORM 1A 5V 500 OHMS	87050	R5	RES MF 100K 1% 1/4W	144113
K4	RELAY REED FORM 1A 5V 500 OHMS	87050	R6	RES MF 10 OHM 1% 1/4W	144157
K5	RELAY REED FORM 1A 5V 500 OHMS	87050	R7	RES MF 10K 1% 1/4W	144053
K6	RELAY REED FORM 1A 5V 500 OHMS	87050	R8	RES MF 22.1K 1% 1/4W	144187
K7	RELAY REED FORM 1C 5V 125 OHM	87056	R9	RES MF 806 OHM 1% 1/4W	144089
R1	RES MF 47.5K 1% 1/4W	144108	R10	RES MF 100K 1% 1/4W	144113
R2	RES MF 1K 1% 1/4W	144090	R11	RES MF 15K 1% 1/4W	144412
R3	RES MF 10K 1% 1/4W	144053	R12	RES MF 22.1K 1% 1/4W	144187
R4	RES MF 10K 1% 1/4W	144053	R13	POT TRIM 100K OHM 20%	134383
R5	RES MF 2.21 OHM 1/4W 1%	144378	R15	RES MF 221 OHM 1% 1/4W	144172
R6	RES MF 2.21 OHM 1/4W 1%	144378	R17	RES MF 2.21M 1/4W	144265
R9	RES MF 47.5 OHM 1% 1/4W	144442	R21	RES MF 4.75K 1% 1/4W	144097
R10	RES MF 47.5K 1% 1/4W	144108	R23	RES MF 10K 1% 1/4W	144053
R11	RES MF 2.21 OHM 1/4W 1%	144378	R25	RES MF 4.75K 1% 1/4W	144097
R12	RES MF 2.21 OHM 1/4W 1%	144378	R26	POT TRIM 2K OHM 20%	134384
R13	RES MF 47.5 OHM 1% 1/4W	144442	R27	POT TRIM 2K OHM 20%	134384
R14	RES MF 47.5K 1% 1/4W	144108	R30	RES 511 OHM 1% 1/4W	144123
R15	RES MF 4.99K 1% 1/4W	144098	R31	RES 511 OHM 1% 1/4W	144123
R16	RES MF 4.99K 1% 1/4W	144098	U12	IC OPERATIONAL AMP LOW NOISE	133067
R17	RES MF 2.21 OHM 1/4W 1%	144378	U14	IC OPERATIONAL AMP LOW NOISE	133067
R18	RES MF 2.21 OHM 1/4W 1%	144378	Ref. No. Description Part No.		
R19	RES MF 10K 1% 1/4W	144053	HEADPHONE PCB 129601		
R20	RES MF 10K 1% 1/4W	144053	2	LOGO	
R23	RES MF 2.21 OHM 1/4W 1%	144378	J1	HEADPHONE JACK 1/4	117881
R24	RES MF 2.21 OHM 1/4W 1%	144378	J2	CONNECTOR HEADER 2PIN RT ANGLE	117873
R25	RES MF 1K 1% 1/4W	144090	J3	CONNECTOR HEADER 2PIN RT ANGLE	117873

NOTES

C1000T
PREAMPLIFIER

EXPLODED VIEW AND PARTS LIST



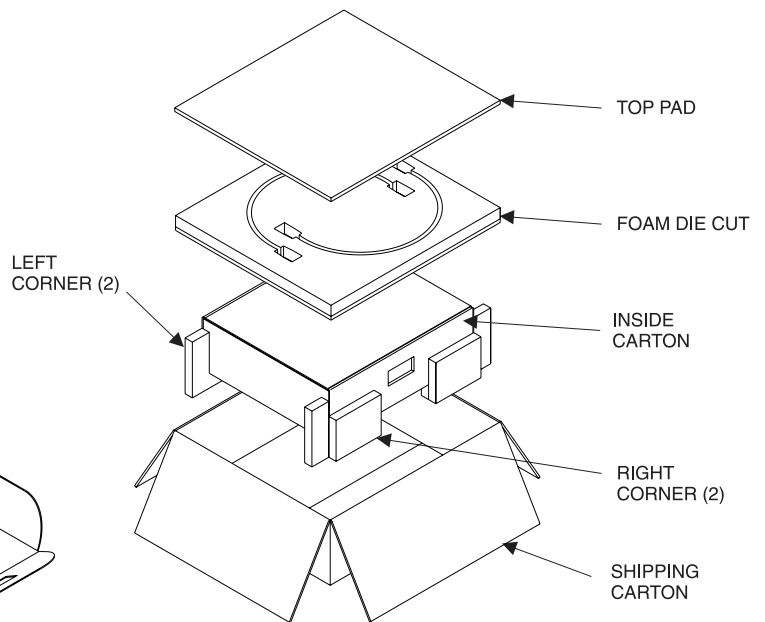
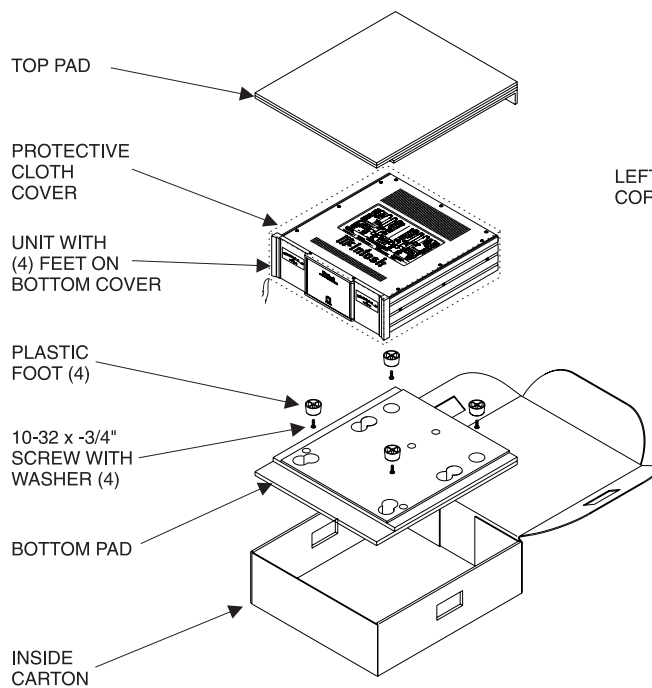
NOTES

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



C1000T

PREAMPLIFIER

SERVICE MANUAL



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