

Figure 5-7A. Main Power Supply Wiring Diagram - Domestic

For Equivalent Engineering Drawing See 40879001-Q1

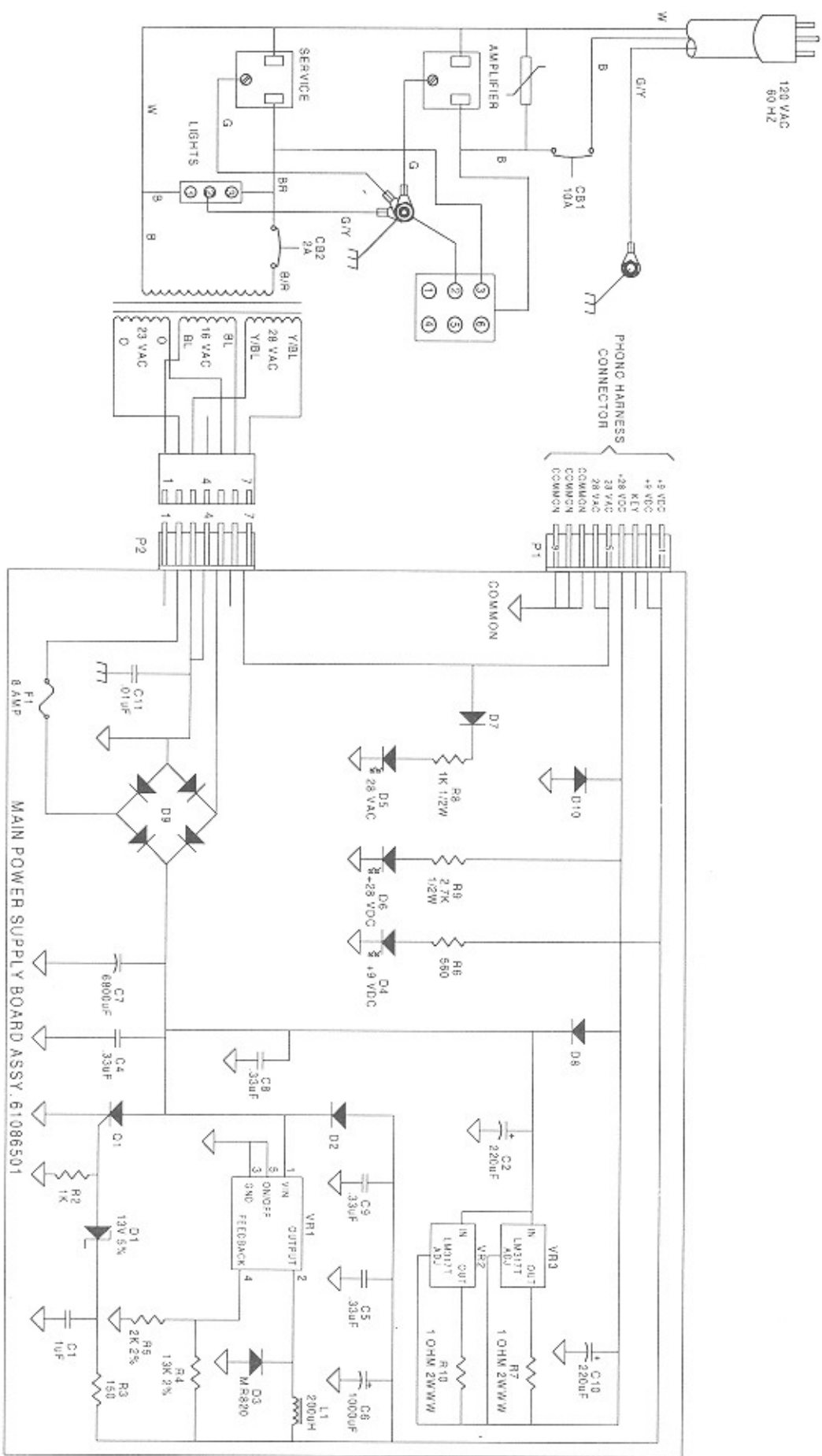


Figure 5-7B. Main Power Supply Schematic - Domestic

For Equivalent Engineering Drawing See 40879001-Q2

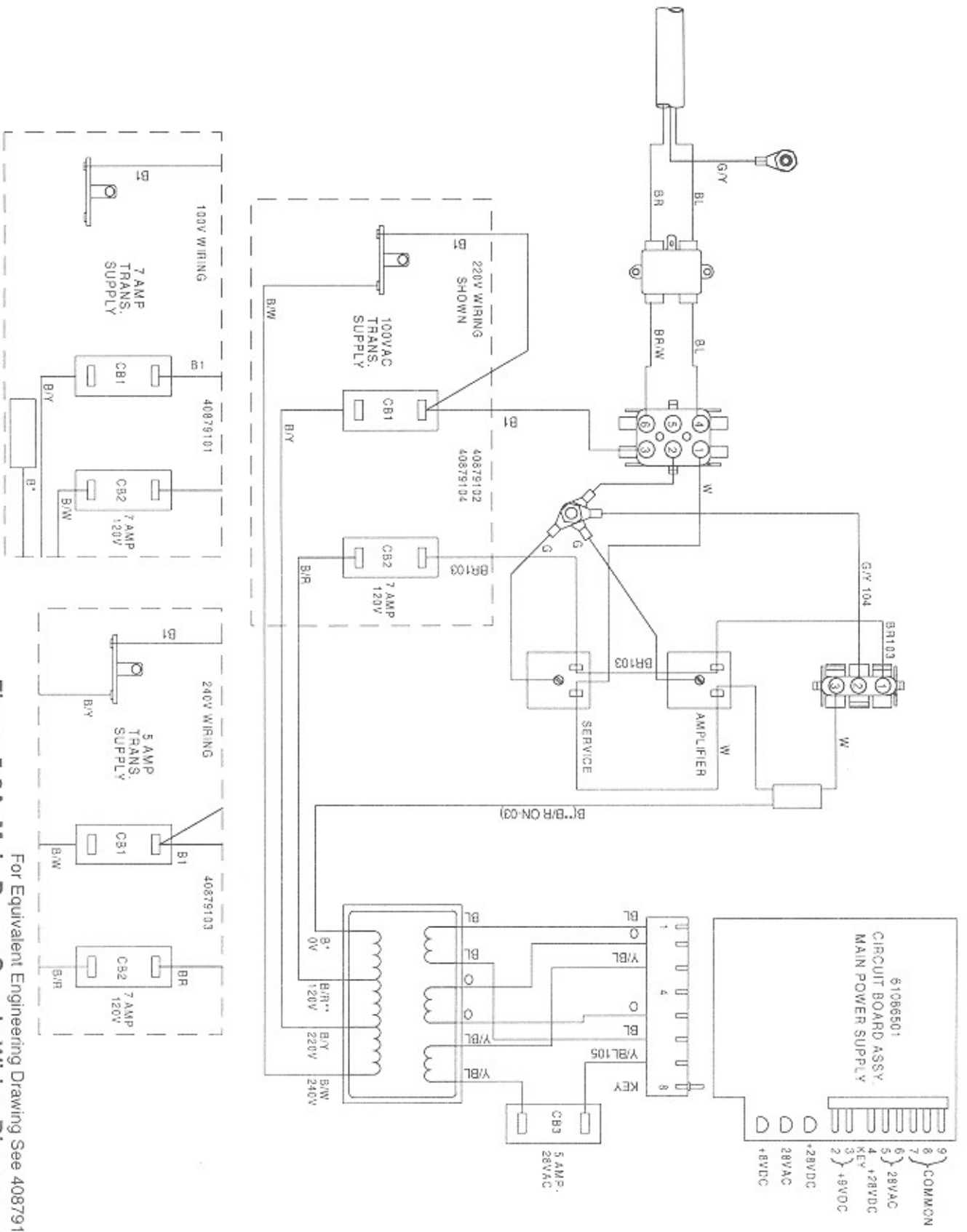
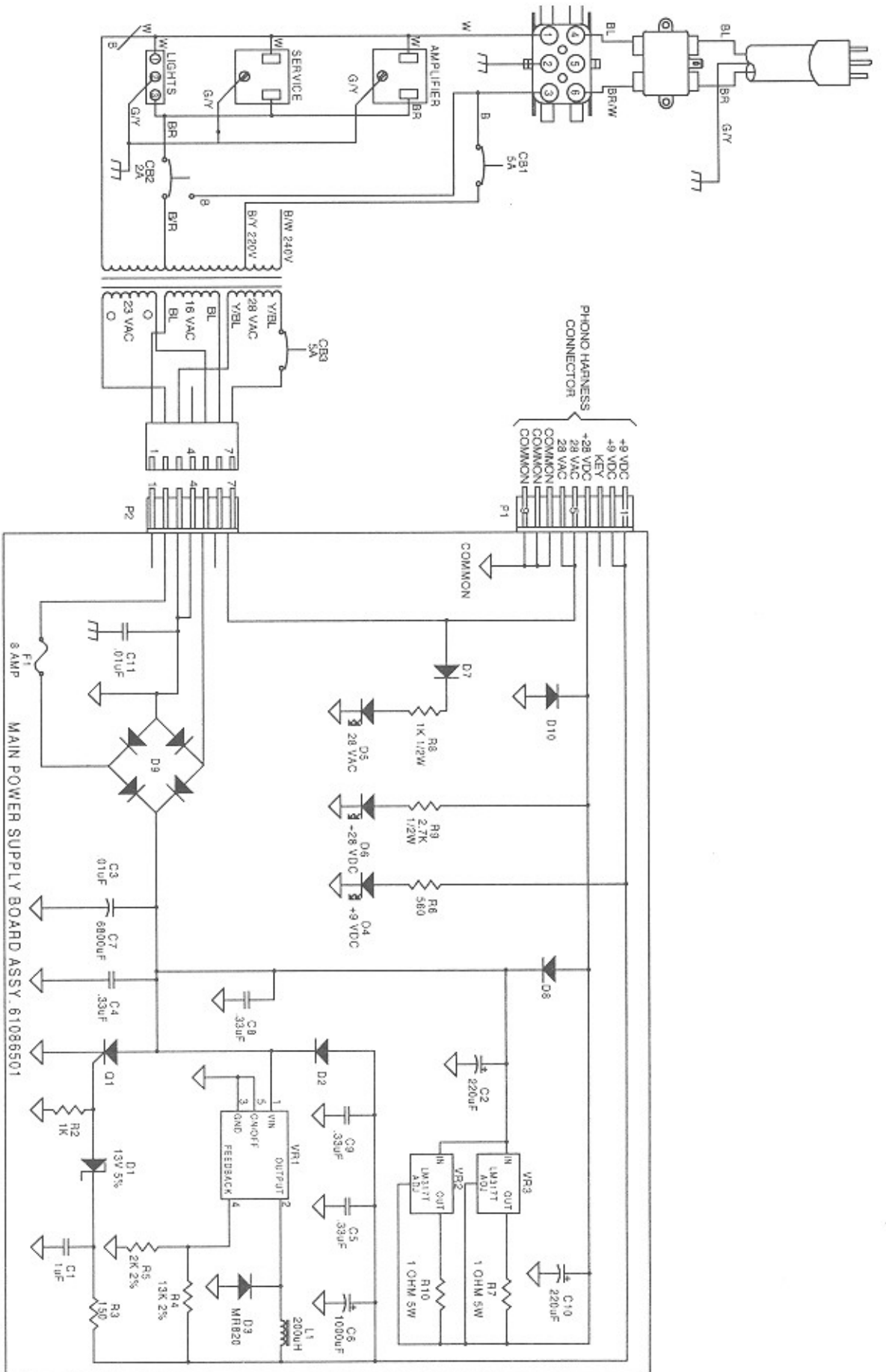


Figure 5-8A. Main Power Supply Wiring Diagram - Export

For Equivalent Engineering Drawing See 40879101/04-Q1



For Equivalent Engineering Drawing See 40879101/04 Q2
Figure 5-8B. Main Power Supply Schematic - Export

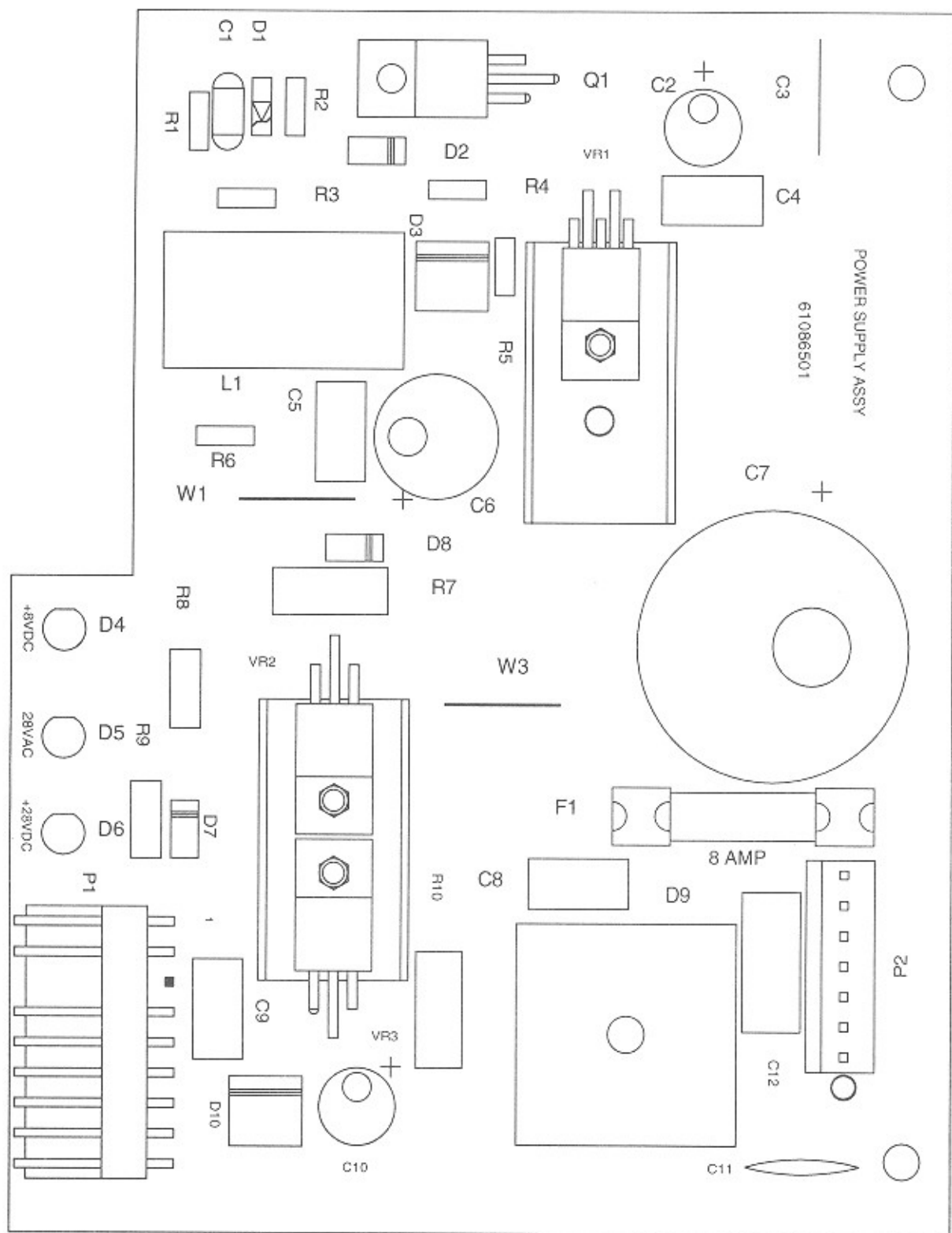
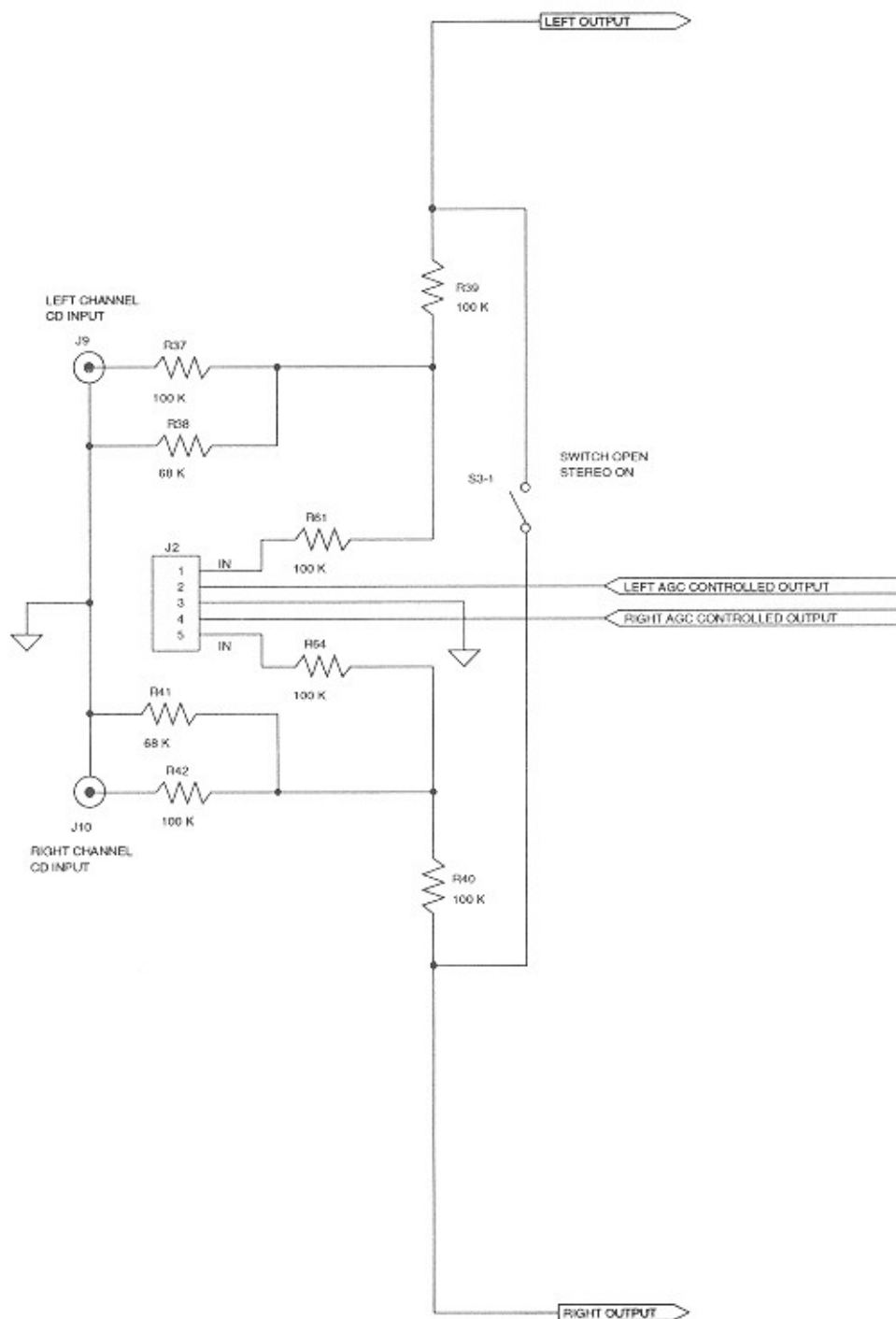


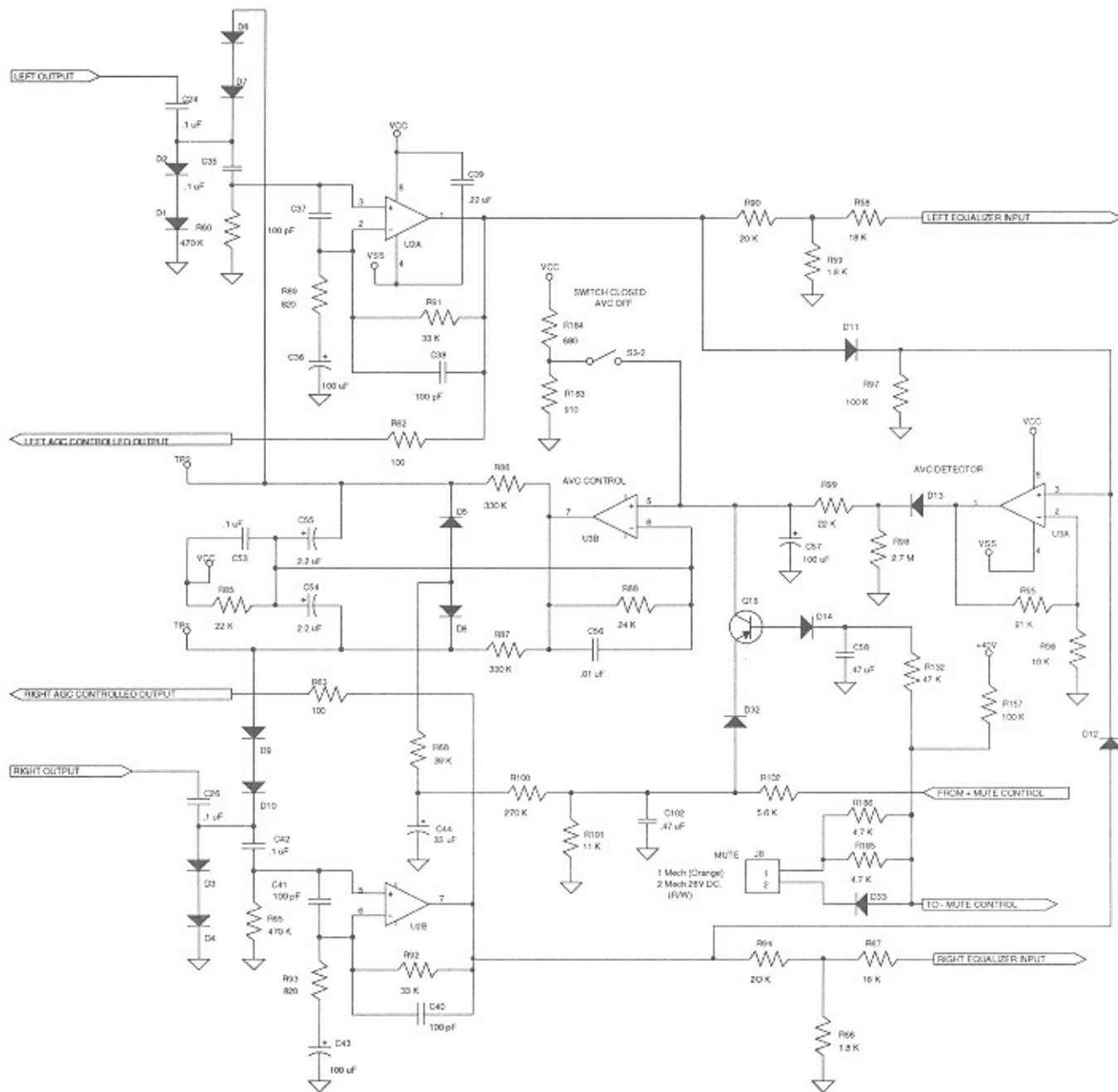
Figure 5-8C. Main Power Supply Circuit Board Assembly Layout

COMPONENTS LIST FOR MAIN POWER SUPPLY CIRCUIT BOARD ASSEMBLY 61086501

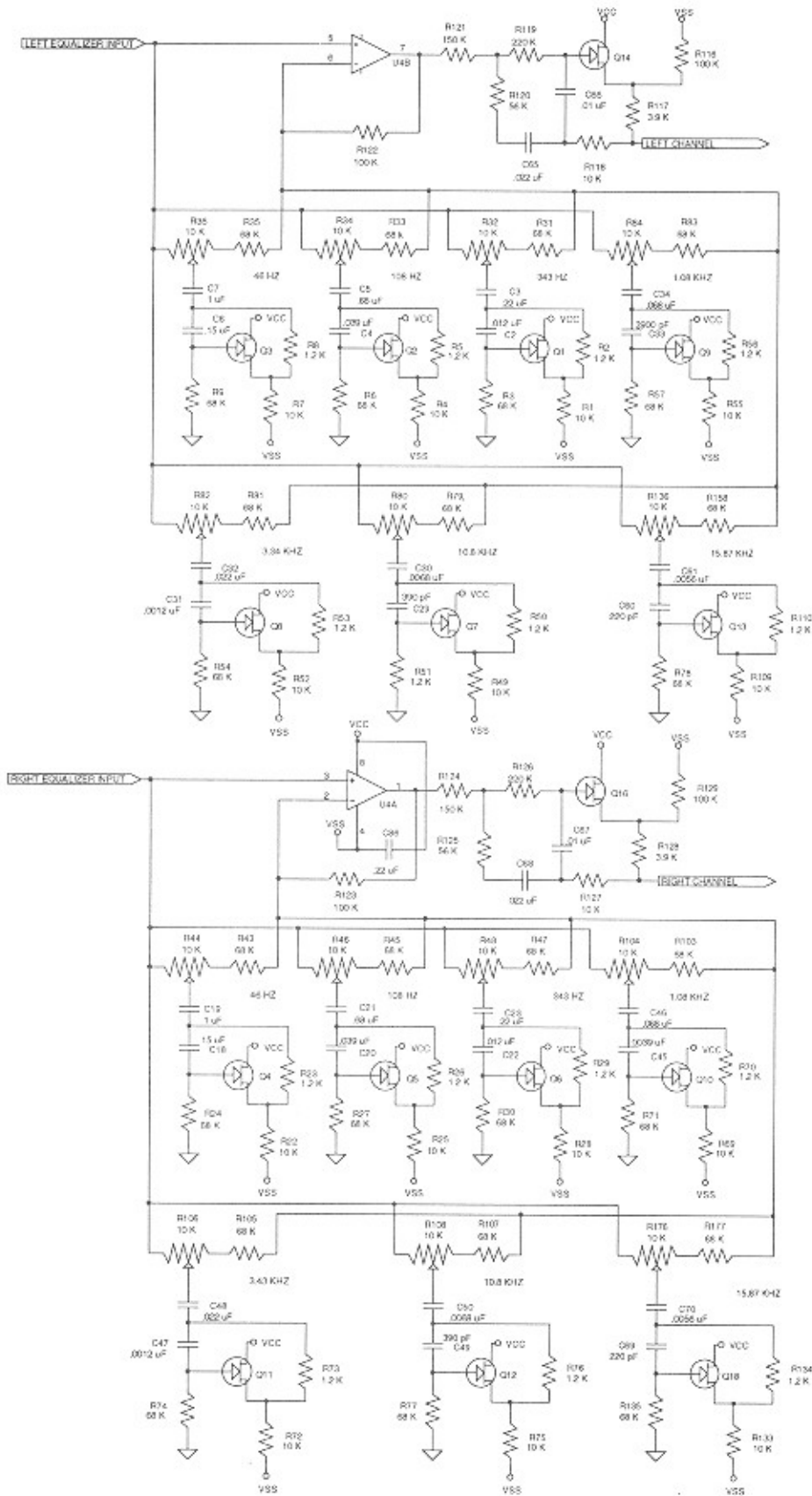
C1	Capacitor - Monolythic Ceramic 20%	1 μ F	70028521
C2	Capacitor - Low E.S.R. 50 VDC 20%	220 μ F	70028305
C3	Not Used		
C4	Capacitor - Mylar 100 VDC 10%	.33 μ F	70021555
C5	Capacitor - Mylar 100 VDC 10%	.33 μ F	70021555
C6	Capacitor - Low E.S.R. 16 VDC	1000 μ F	70028310
C7	Capacitor - Electrolytic 35 VDC 20%	6800 μ F	70023601
C8	Capacitor - Mylar 100 VDC 10%	.33 μ F	70021555
C9	Capacitor - Mylar 100 VDC 10%	.33 μ F	70021555
C10	Capacitor - Low E.S.R. 50 VDC 20%	220 μ F	70028305
C11	Capacitor - Ceramic Disc 1 KV 20%	.01 μ F	70022508
C12	Not Used		
D1	Diode - Zener (13V .5W 5%)	1N4743A	70035506
D2	Diode - Silicon	1N4004	70035005
D3	Diode - Silicon	MR820	70035017
D4	Diode - Light Emitting Red Diffused		70035305
D5	Diode - Light Emitting Red Diffused		70035305
D6	Diode - Light Emitting Red Diffused		70035305
D7	Diode - Silicon	1N4004	70035005
D8	Diode - Silicon	1N4004	70035005
D9	Bridge - Rectifier 25 Amp	KBP-C25-02W	21822507
D10	Diode - Silicon	MR 752	70035010
F1	Fuse	8 Amp	70072002
L1	Inductor		21513502
P1	Header - Polarized .156 Right Angle 9-Position		70076009
P2	Header - Polarized .156 7-Position		70075007
Q1	Thyristor Scr. 20 Amp	S4020L-ND	70038004
NOTE: All resistors are 1/4 watt 5% unless otherwise indicated.			
R1	Not Used		
R2	Resistor - Carbon Film	1 Ω	79901102
R3	Resistor - Carbon Film	150 Ω	79901151
R4	Resistor - Carbon Film	13 K Ω	79902133
R5	Resistor - Carbon Film	2 K Ω	79902202
R6	Resistor - Carbon Film	560 Ω	79901561
R7	Resistor - Wirewound (2 W)	1 Ω	79900109
R8	Resistor - Metal Film (1/2 W 5%)	1 K Ω	79904102
R9	Resistor - Metal Film (1/2 W 5%)	2.7 K Ω	79904272
R10	Resistor - Wirewound (2 W 5%)	1 Ω	79920109
VR1	I.C. - Voltage Regulator	LM2576T-ADJ	70036520
VR2	I.C. - Voltage Regulator	LM317T	70036507
VR3	I.C. - Voltage Regulator	LM317T	70036507
W1	Wire - Bare 22 GA		00503200
W2	Not Used		
W3	Wire - Bare 22 GA		00503200

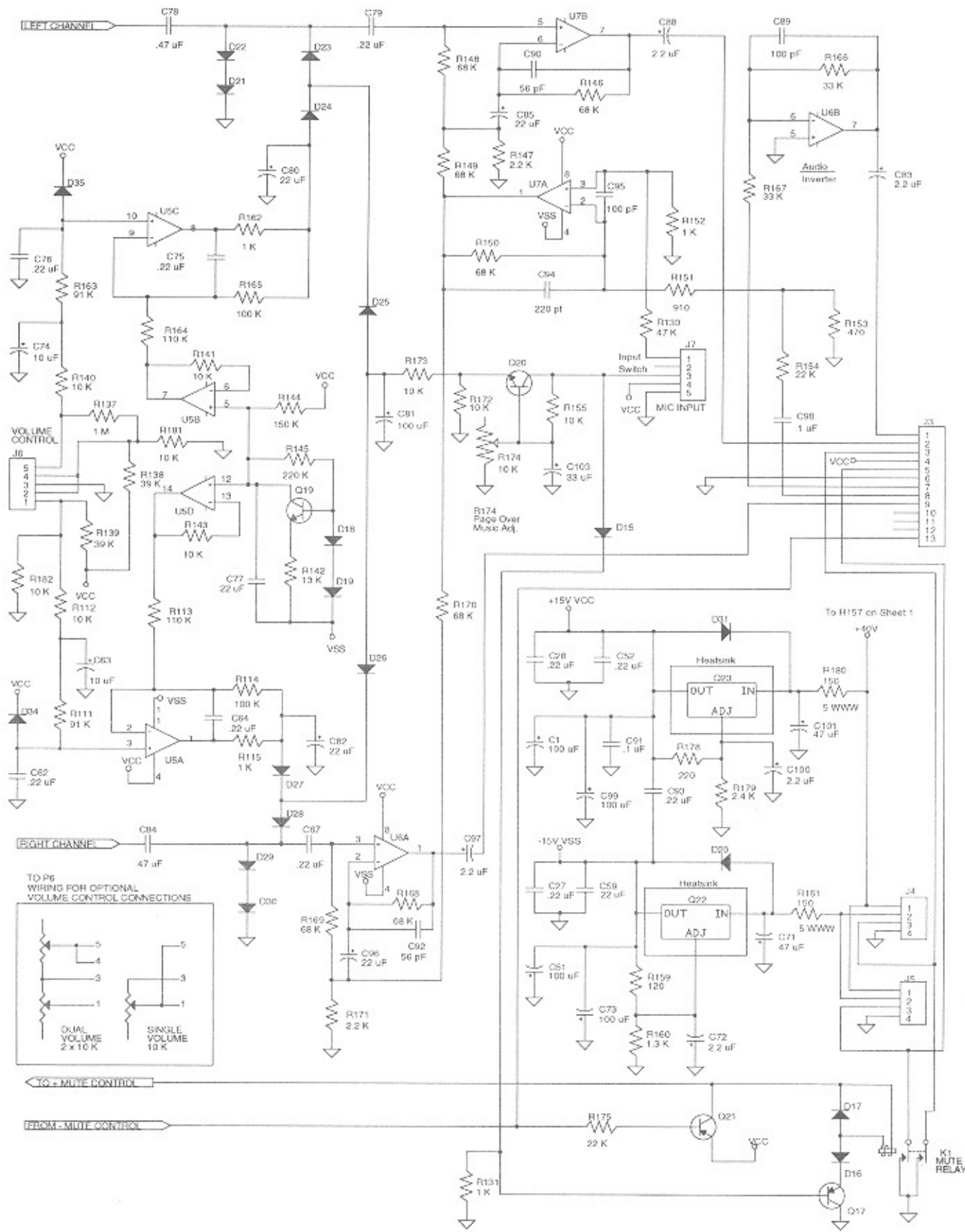
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For Equivalent Engineering Drawing See 61023703-Q2 A
Figure 5-9A. Schematic Diagram - Stereo Preamp Assembly, Sheet 1





For Equivalent Engineering Drawing See 61023703-Q2 A
 Figure 5-9A. Schematic Diagram - Stereo Preamp Assembly, Sheet 2

COMPONENT LIST FOR PREAMPLIFIER BOARD (61023703-A)

C1	Capacitor - Electrolytic	100 μ F	70023814
C2	Capacitor - Monolythic Ceramic	.012 μ F	70028638
C3	Capacitor - Monolythic Ceramic	.22 μ F	70028523
C4	Capacitor - Monolythic Ceramic	.039 μ F	70028644
C5	Capacitor - Monolythic Ceramic	.68 μ F	70028522
C6	Capacitor - Monolythic Ceramic	.15 μ F	70028512
C7	Capacitor - Monolythic Ceramic	1 μ F	70028521
C8	Not Used		
C9	Not Used		
C10	Not Used		
C11	Not Used		
C12	Not Used		
C13	Not Used		
C14	Not Used		
C15	Not Used		
C16	Not Used		
C17	Not Used		
C18	Capacitor - Monolythic Ceramic	.15 μ F	70028512
C19	Capacitor - Monolythic Ceramic	1 μ F	70028521
C20	Capacitor - Monolythic Ceramic	.039 μ F	70028644
C21	Capacitor - Monolythic Ceramic	.68 μ F	70028522
C22	Capacitor - Monolythic Ceramic	.012 μ F	70028638
C23	Capacitor - Monolythic Ceramic	.22 μ F	70028523
C24	Capacitor - Monolythic Ceramic	.1 μ F	70028649
C25	Not Used		
C26	Capacitor - Monolythic Ceramic	.1 μ F	70028649
C27	Capacitor - Monolythic Ceramic	.22 μ F	70028523
C28	Capacitor - Monolythic Ceramic	.22 μ F	70028523
C29	Capacitor - Monolythic Ceramic	390 PF	70028611
C30	Capacitor - Monolythic Ceramic	.0068 μ F	70028633
C31	Capacitor - Monolythic Ceramic	.0012 μ F	70028620
C32	Capacitor - Monolythic Ceramic	.022 μ F	70028641
C33	Capacitor - Monolythic Ceramic	.0039 μ F	70028629
C34	Capacitor - Monolythic Ceramic	.068 μ F	70028647
C35	Capacitor - Monolythic Ceramic	.1 μ F	70028649
C36	Capacitor - Electrolytic	100 μ F	70023814
C37	Capacitor - Monolythic Ceramic	100 PF	70028601
C38	Capacitor - Monolythic Ceramic	100 PF	70028601
C39	Capacitor - Monolythic Ceramic	.22 μ F	70028523
C40	Capacitor - Monolythic Ceramic	100 PF	70028601
C41	Capacitor - Monolythic Ceramic	100 PF	70028601
C42	Capacitor - Monolythic Ceramic	.1 μ F	70028649
C43	Capacitor - Electrolytic	100 μ F	70023814
C44	Capacitor - Electrolytic	33 μ F	70023811
C45	Capacitor - Monolythic Ceramic	.0039 μ F	70028629
C46	Capacitor - Monolythic Ceramic	.068 μ F	70028647
C47	Capacitor - Monolythic Ceramic	.0012 μ F	70028620
C48	Capacitor - Monolythic Ceramic	.022 μ F	70028641
C49	Capacitor - Monolythic Ceramic	390 PF	70028611
C50	Capacitor - Monolythic Ceramic	.0068 μ F	70028633
C51	Capacitor - Electrolytic	100 μ F	70023814
C52	Capacitor - Monolythic Ceramic	.22 μ F	70028523
C53	Capacitor - Monolythic Ceramic	.1 μ F	70028649
C54	Capacitor - Electrolytic	2.2 μ F	70023805
C55	Capacitor - Electrolytic	2.2 μ F	70023805
C56	Capacitor - Monolythic Ceramic	.01 μ F	70028636
C57	Capacitor - Electrolytic	100 μ F	70023814

C58	Capacitor - Monolythic Ceramic	.47 μ F	70028516
C59	Capacitor - Monolythic Ceramic	.22 μ F	70028523
C60	Capacitor - Monolythic Ceramic	220 PF	70028606
C61	Capacitor - Monolythic Ceramic	.0056 μ F	70028632
C62	Capacitor - Monolythic Ceramic	.22 μ F	70028523
C63	Capacitor - Electrolytic	10 μ F	70023808
C64	Capacitor - Monolythic Ceramic	.22 μ F	70028523
C65	Capacitor - Monolythic Ceramic	.022 μ F	70028641
C66	Capacitor - Monolythic Ceramic	.01 μ F	70028636
C67	Capacitor - Monolythic Ceramic	.01 μ F	70028636
C68	Capacitor - Monolythic Ceramic	.022 μ F	70028641
C69	Capacitor - Monolythic Ceramic	220 PF	70028606
C70	Capacitor - Monolythic Ceramic	.0056 μ F	70028632
C71	Capacitor - Electrolytic	47 μ F	70023812
C72	Capacitor - Electrolytic	2.2 μ F	70023805
C73	Capacitor - Electrolytic	100 μ F	70023814
C74	Capacitor - Electrolytic	10 μ F	70023808
C75	Capacitor - Monolythic Ceramic	.22 μ F	70028523
C76	Capacitor - Monolythic Ceramic	.22 μ F	70028523
C77	Capacitor - Monolythic Ceramic	.22 μ F	70028523
C78	Capacitor - Monolythic Ceramic	.47 μ F	70028516
C79	Capacitor - Monolythic Ceramic	.22 μ F	70028523
C80	Capacitor - Electrolytic	22 μ F	70023810
C81	Capacitor - Electrolytic	100 μ F	70023814
C82	Capacitor - Electrolytic	22 μ F	70023810
C83	Capacitor - Electrolytic	2.2 μ F	70023805
C84	Capacitor - Monolythic Ceramic	.47 μ F	70028516
C85	Capacitor - Electrolytic	22 μ F	70023810
C86	Capacitor - Monolythic Ceramic	.22 μ F	70028523
C87	Capacitor - Monolythic Ceramic	.22 μ F	70028523
C88	Capacitor - Electrolytic	2.2 μ F	70023805
C89	Capacitor - Monolythic Ceramic	100 PF	70028601
C90	Capacitor - Monolythic Ceramic	56 PF	70028710
C91	Capacitor - Monolythic Ceramic	.1 μ F	70028649
C92	Capacitor - Monolythic Ceramic	56 PF	70028710
C93	Capacitor - Monolythic Ceramic	.22 μ F	70028523
C94	Capacitor - Monolythic Ceramic	220 PF	70028606
C95	Capacitor - Monolythic Ceramic	100 PF	70028601
C96	Capacitor - Electrolytic	22 μ F	70023810
C97	Capacitor - Electrolytic	2.2 μ F	70023805
C98	Capacitor - Monolythic Ceramic	.1 μ F	70028649
C99	Capacitor - Electrolytic	100 μ F	70023814
C100	Capacitor - Electrolytic	2.2 μ F	70023805
C101	Capacitor - Electrolytic	47 μ F	70023812
C102	Capacitor - Monolythic Ceramic	.47 μ F	70028516
C103	Capacitor - Electrolytic	33 μ F	70023811
D1	Diode - Silicon	1N4148	70035012
D2	Diode - Silicon	1N4148	70035012
D3	Diode - Silicon	1N4148	70035012
D4	Diode - Silicon	1N4148	70035012
D5	Diode - Silicon	1N4148	70035012
D6	Diode - Silicon	1N4148	70035012
D7	Diode - Silicon	1N4148	70035012
D8	Diode - Silicon	1N4148	70035012
D9	Diode - Silicon	1N4148	70035012
D10	Diode - Silicon	1N4148	70035012

COMPONENT LIST FOR PREAMPLIFIER BOARD (61023703-A)

(CONTINUED)

D11	Diode - Silicon	1N4148	70035012
D12	Diode - Silicon	1N4148	70035012
D13	Diode - Silicon	1N4148	70035012
D14	Diode - Silicon	1N4148	70035012
D15	Diode - Silicon	1N4148	70035012
D16	Diode - Silicon	1N4148	70035012
D17	Diode - Silicon	1N4148	70035012
D18	Diode - Silicon	1N4148	70035012
D19	Diode - Silicon	1N4148	70035012
D20	Diode - Silicon	1N4148	70035012
D21	Diode - Silicon	1N4148	70035012
D22	Diode - Silicon	1N4148	70035012
D23	Diode - Silicon	1N4148	70035012
D24	Diode - Silicon	1N4148	70035012
D25	Diode - Silicon	1N4148	70035012
D26	Diode - Silicon	1N4148	70035012
D27	Diode - Silicon	1N4148	70035012
D28	Diode - Silicon	1N4148	70035012
D29	Diode - Silicon	1N4148	70035012
D30	Diode - Silicon	1N4148	70035012
D31	Diode - Silicon	1N4148	70035012
D32	Diode - Silicon	1N4148	70035012
D33	Diode - Silicon	1N4148	70035012
D34	Diode - Silicon	1N4148	70035012
D35	Diode - Silicon	1N4148	70035012
K1	Relay - Reed		70042208
P1	Not Used		
P2	Header - Non Polarizing	(5 CKT)	70074923
P3	Header - Non Polarizing	(13 CKT)	70074931
P4	Connector - Top Entry	(4 CKT)	70074802
P5	Connector - Top Entry	(4 CKT)	70074802
P6	Header - Non Polarizing	(5 CKT)	70074923
P7	Header - Non Polarizing	(5 CKT)	70074923
P8	Header - Polarizing	(2 CKT)	70075002
P9	Receptacle - Phono Jack		21540902
P10	Receptacle - Phono Jack		21540902
Q1	Transistor - J Fet (N-Channel)	2N5484	70030901
Q2	Transistor - J Fet (N-Channel)	2N5484	70030901
Q3	Transistor - J Fet (N-Channel)	2N5484	70030901
Q4	Transistor - J Fet (N-Channel)	2N5484	70030901
Q5	Transistor - J Fet (N-Channel)	2N5484	70030901
Q6	Transistor - J Fet (N-Channel)	2N5484	70030901
Q7	Transistor - J Fet (N-Channel)	2N5484	70030901
Q8	Transistor - J Fet (N-Channel)	2N5484	70030901
Q9	Transistor - J Fet (N-Channel)	2N5484	70030901
Q10	Transistor - J Fet (N-Channel)	2N5484	70030901
Q11	Transistor - J Fet (N-Channel)	2N5484	70030901
Q12	Transistor - J Fet (N-Channel)	2N5484	70030901
Q13	Transistor - J Fet (N-Channel)	2N5484	70030901
Q14	Transistor - J Fet (N-Channel)	2N5484	70030901
Q15	Transistor - Silicon (PNP)	MPSA56	70030104
Q16	Transistor - J Fet (N-Channel)	2N5484	70030901
Q17	Transistor - Silicon (PNP)	MPSA56	70030104

Q18	Transistor - J Fet (N-Channel)	2N5484	70030901
Q19	Transistor - Silicon (NPN)	MPSA06	70030008
Q20	Transistor - Silicon (NPN)	MPSA06	70030008
Q21	Transistor - Silicon (PNP)	MPSA56	70030104
Q22	Regulator - Voltage (Adj Neg)	LM337T	70036508
Q23	Regulator - Voltage (Adj Pos)	LM317T	70036507

NOTE: All resistors are 1/4 watt 5% unless otherwise indicated.

R1	Resistor - Carbon	10 K Ω	79901103
R2	Resistor - Carbon	1.2 K Ω	79901122
R3	Resistor - Carbon	68 K Ω	79901683
R4	Resistor - Carbon	10 K Ω	79901103
R5	Resistor - Carbon	1.2 K Ω	79901122
R6	Resistor - Carbon	68 K Ω	79901683
R7	Resistor - Carbon	10 K Ω	79901103
R8	Resistor - Carbon	1.2 K Ω	79901122
R9	Resistor - Carbon	68 K Ω	79901683
R10	Not Used		
R11	Not Used		
R12	Not Used		
R13	Not Used		
R14	Not Used		
R15	Not Used		
R16	Not Used		
R17	Not Used		
R18	Not Used		
R19	Not Used		
R20	Not Used		
R21	Not Used		
R22	Resistor - Carbon	10 K Ω	79901103
R23	Resistor - Carbon	1.2 K Ω	79901122
R24	Resistor - Carbon	68 K Ω	79901683
R25	Resistor - Carbon	10 K Ω	79901103
R26	Resistor - Carbon	1.2 K Ω	79901122
R27	Resistor - Carbon	68 K Ω	79901683
R28	Resistor - Carbon	10 K Ω	79901103
R29	Resistor - Carbon	1.2 K Ω	79901122
R30	Resistor - Carbon	68 K Ω	79901683
R31	Resistor - Carbon	68 K Ω	79901683
* R32	Potentiometer - Special	10 K Ω	70040018
R33	Resistor - Carbon	68 K Ω	79901683
* R34	Potentiometer - Special	10 K Ω	70040018
R35	Resistor - Carbon	68 K Ω	79901683
* R36	Potentiometer - Special	10 K Ω	70040018
R37	Resistor - Carbon	100 K Ω	79901104
R38	Resistor - Carbon	68 K Ω	79901683
R39	Resistor - Carbon	100 K Ω	79901104
R40	Resistor - Carbon	100 K Ω	79901104
R41	Resistor - Carbon	68 K Ω	79901683
R42	Resistor - Carbon	100 K Ω	79901104
R43	Resistor - Carbon	68 K Ω	79901683
* R44	Potentiometer - Special	10 K Ω	70040018
R45	Resistor - Carbon	68 K Ω	79901683
* R46	Potentiometer - Special	10 K Ω	70040018
R47	Resistor - Carbon	68 K Ω	79901683
* R48	Potentiometer - Special	10 K Ω	70040018
R49	Resistor - Carbon	10 K Ω	79901103
R50	Resistor - Carbon	1.2 K Ω	79901122
R51	Resistor - Carbon	68 K Ω	79901683

COMPONENT LIST FOR PREAMPLIFIER BOARD (61023703-A)

(CONTINUED)

R52	Resistor - Carbon	10 K Ω	79901103
R53	Resistor - Carbon	1.2 K Ω	79901122
R54	Resistor - Carbon	68 K Ω	79901683
R55	Resistor - Carbon	10 K Ω	79901103
R56	Resistor - Carbon	1.2 K Ω	79901122
R57	Resistor - Carbon	68 K Ω	79901683
R58	Resistor - Carbon	18 K Ω	79901183
R59	Resistor - Carbon	1.8 K Ω	79901182
R60	Resistor - Carbon	470 K Ω	79901474
R61	Resistor - Carbon	100 K Ω	79901104
R62	Resistor - Carbon	100 Ω	79901101
R63	Resistor - Carbon	100 Ω	79901101
R64	Resistor - Carbon	100 K Ω	79901104
R65	Resistor - Carbon	470 K Ω	79901474
R66	Resistor - Carbon	1.8 K Ω	79901182
R67	Resistor - Carbon	18 K Ω	79901183
R68	Resistor - Carbon	39 K Ω	79901393
R69	Resistor - Carbon	10 K Ω	79901103
R70	Resistor - Carbon	1.2 K Ω	79901122
R71	Resistor - Carbon	68 K Ω	79901683
R72	Resistor - Carbon	10 K Ω	79901103
R73	Resistor - Carbon	1.2 K Ω	79901122
R74	Resistor - Carbon	68 K Ω	79901683
R75	Resistor - Carbon	10 K Ω	79901103
R76	Resistor - Carbon	1.2 K Ω	79901122
R77	Resistor - Carbon	68 K Ω	79901683
R78	Resistor - Carbon	68 K Ω	79901683
R79	Resistor - Carbon	68 K Ω	79901683
* R80	Potentiometer - Special	10 K Ω	70040018
R81	Resistor - Carbon	68 K Ω	79901683
* R82	Potentiometer - Special	10 K Ω	70040018
R83	Resistor - Carbon	68 K Ω	79901683
* R84	Potentiometer - Special	10 K Ω	70040018
R85	Resistor - Carbon	22 K Ω	79901223
R86	Resistor - Carbon	330 K Ω	79901334
R87	Resistor - Carbon	330 K Ω	79901334
R88	Resistor - Carbon	24 K Ω	79901243
R89	Resistor - Carbon	820 Ω	79901821
R90	Resistor - Carbon	20 K Ω	79901203
R91	Resistor - Carbon	33 K Ω	79901333
R92	Resistor - Carbon	33 K Ω	79901333
R93	Resistor - Carbon	820 Ω	79901821
R94	Resistor - Carbon	20 K Ω	79901203
R95	Resistor - Carbon	91 K Ω	79901913
R96	Resistor - Carbon	10 K Ω	79901103
R97	Resistor - Carbon	100 K Ω	79901104
R98	Resistor - Carbon	2.7 M Ω	79901275
R99	Resistor - Carbon	22 K Ω	79901223
R100	Resistor - Carbon	270 K Ω	79901274
R101	Resistor - Carbon	11 K Ω	79901113
R102	Resistor - Carbon	5.6 K Ω	79901562
R103	Resistor - Carbon	68 K Ω	79901683
* R104	Potentiometer - Special	10 K Ω	70040018
R105	Resistor - Carbon	68 K Ω	79901683
* R106	Potentiometer - Special	10 K Ω	70040018
R107	Resistor - Carbon	68 K Ω	79901683

* R108	Potentiometer - Special	10 K Ω	70040018
R109	Resistor - Carbon	10 K Ω	79901103
R110	Resistor - Carbon	1.2 K Ω	79901122
R111	Resistor - Carbon	91 K Ω	79901913
R112	Resistor - Carbon	10 K Ω	79901103
R113	Resistor - Carbon	110 K Ω	79901114
R114	Resistor - Carbon	100 K Ω	79901104
R115	Resistor - Carbon	1 K Ω	79901102
R116	Resistor - Carbon	100 K Ω	79901104
R117	Resistor - Carbon	3.9 K Ω	79901392
R118	Resistor - Carbon	10 K Ω	79901103
R119	Resistor - Carbon	220 K Ω	79901224
R120	Resistor - Carbon	56 K Ω	79901563
R121	Resistor - Carbon	150 K Ω	79901154
R122	Resistor - Carbon	100 K Ω	79901104
R123	Resistor - Carbon	100 K Ω	79901104
R124	Resistor - Carbon	150 K Ω	79901154
R125	Resistor - Carbon	56 K Ω	79901563
R126	Resistor - Carbon	220 K Ω	79901224
R127	Resistor - Carbon	10 K Ω	79901103
R128	Resistor - Carbon	3.9 K Ω	79901392
R129	Resistor - Carbon	100 K Ω	79901104
R130	Resistor - Carbon	47 K Ω	79901473
R131	Resistor - Carbon	1 K Ω	79901102
R132	Resistor - Carbon	47 K Ω	79901473
R133	Resistor - Carbon	10 K Ω	79901103
R134	Resistor - Carbon	1.2 K Ω	79901122
R135	Resistor - Carbon	68 K Ω	79901683
* R136	Potentiometer - Special	10 K Ω	70040018
R137	Resistor - Carbon	1 M Ω	79901105
R138	Resistor - Carbon	39 K Ω	79901393
R139	Resistor - Carbon	39 K Ω	79901393
R140	Resistor - Carbon	10 K Ω	79901103
R141	Resistor - Carbon	10 K Ω	79901103
R142	Resistor - Carbon	13 K Ω	79901133
R143	Resistor - Carbon	10 K Ω	79901103
R144	Resistor - Carbon	150 K Ω	79901154
R145	Resistor - Carbon	220 K Ω	79901224
R146	Resistor - Carbon	68 K Ω	79901683
R147	Resistor - Carbon	2.2 K Ω	79901222
R148	Resistor - Carbon	68 K Ω	79901683
R149	Resistor - Carbon	68 K Ω	79901683
R150	Resistor - Carbon	68 K Ω	79901683
R151	Resistor - Carbon	910 Ω	79901911
R152	Resistor - Carbon	1 K Ω	79901102
R153	Resistor - Carbon	470 Ω	79901471
R154	Resistor - Carbon	22 K Ω	79901223
R155	Resistor - Carbon	10 K Ω	79901103
R156	Not Used		
R157	Resistor - Carbon	100 K Ω	79901104
R158	Resistor - Carbon	68 K Ω	79901683
R159	Resistor - Carbon (1/4W 2%)	120 Ω	79902121
R160	Resistor - Carbon (1/4W 2%)	1.3 K Ω	79902132
R161	Resistor - Wirewound	150 Ω	70012510
R162	Resistor - Carbon	1 K Ω	79901102
R163	Resistor - Carbon	91 K Ω	79901913
R164	Resistor - Carbon	110 K Ω	79901114
R165	Resistor - Carbon	100 K Ω	79901104
R166	Resistor - Carbon	33 K Ω	79901333

COMPONENT LIST FOR PREAMPLIFIER BOARD (61023703-A)

(CONTINUED)

R167	Resistor - Carbon	33 K Ω	79901333
R168	Resistor - Carbon	68 K Ω	79901683
R169	Resistor - Carbon	68 K Ω	79901683
R170	Resistor - Carbon	68 K Ω	79901683
R171	Resistor - Carbon	2.2 K Ω	79901222
R172	Resistor - Carbon	10 K Ω	79901103
R173	Resistor - Carbon	10 K Ω	79901103
* R174	Potentiometer	10 K Ω	70040014
R175	Resistor - Carbon	22 K Ω	79901223
* R176	Potentiometer - Special	10 K Ω	70040018
R177	Resistor - Carbon	68 K Ω	79901683
R178	Resistor - Carbon (1/4W 2%)	220 Ω	79902221
R179	Resistor - Carbon (1/4W 2%)	2.4 K Ω	79902242
R180	Resistor - Wirewound	150 Ω	70012510
R181	Resistor - Carbon	10 K Ω	79901103
R182	Resistor - Carbon	10 K Ω	79901103
R183	Resistor - Carbon	910 Ω	79901911
R184	Resistor - Carbon	680 Ω	79901681
R185	Resistor - Carbon	4.7 K Ω	79901472
R186	Resistor - Carbon	4.7 K Ω	79901472
S1	Switch - DP		70042902
U1	Not Used		
U2	I.C. - Dual Op Amp	LM833	30800238
U3	I.C. - Dual Op Amp	LM833	30800238
U4	I.C. - Dual Op Amp	LM833	30800238
U5	I.C. - Dual Op Amp	LM833	30800238
U6	I.C. - Dual Op Amp	LM833	30800238
U7	I.C. - Dual Op Amp	LM833	30800238

* Requires Potentiometer Adjustment Shaft, Part Number 21621101.

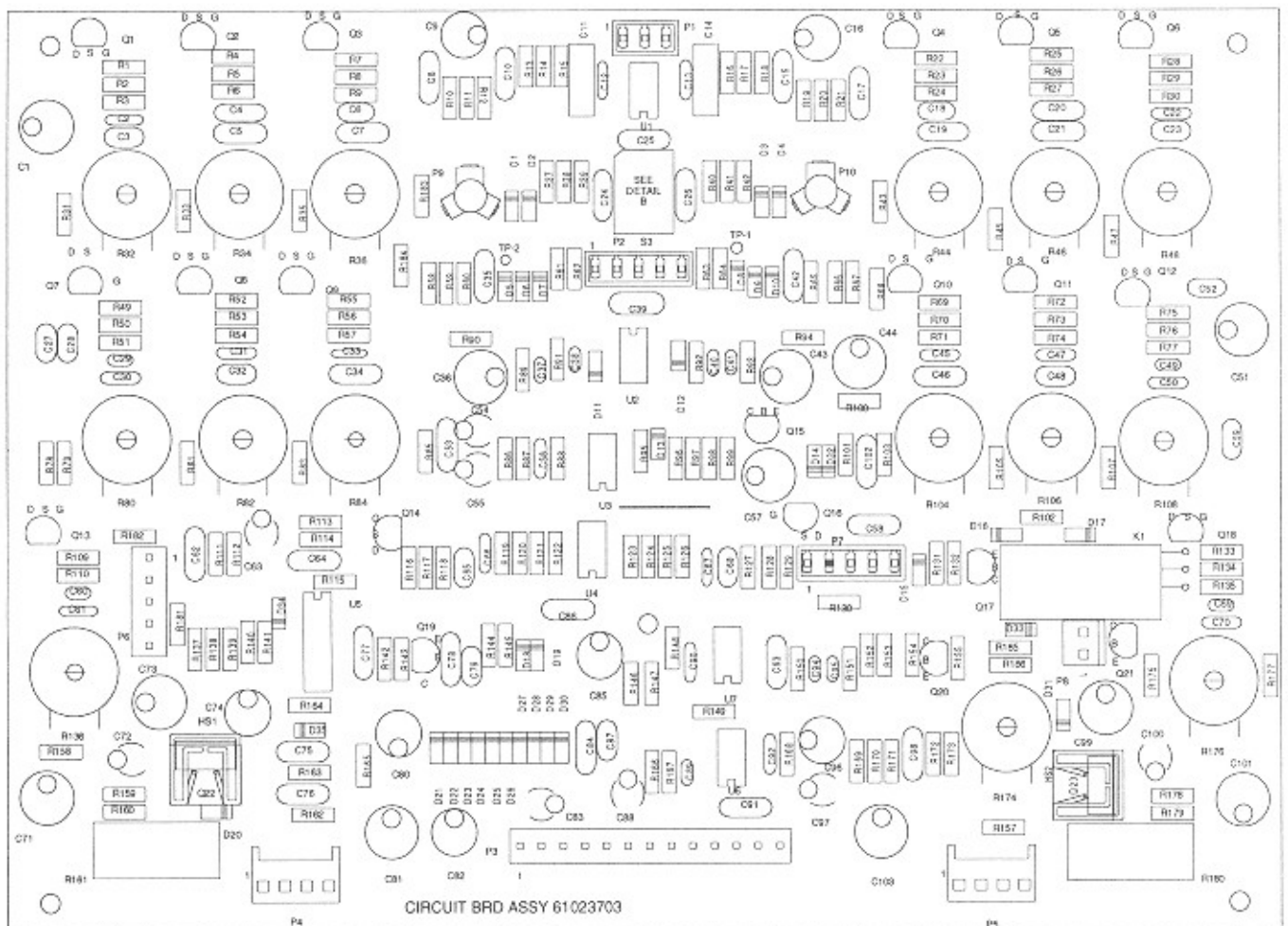
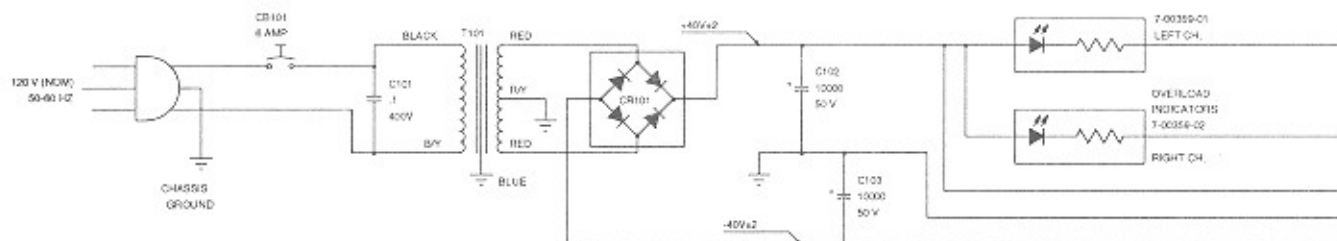
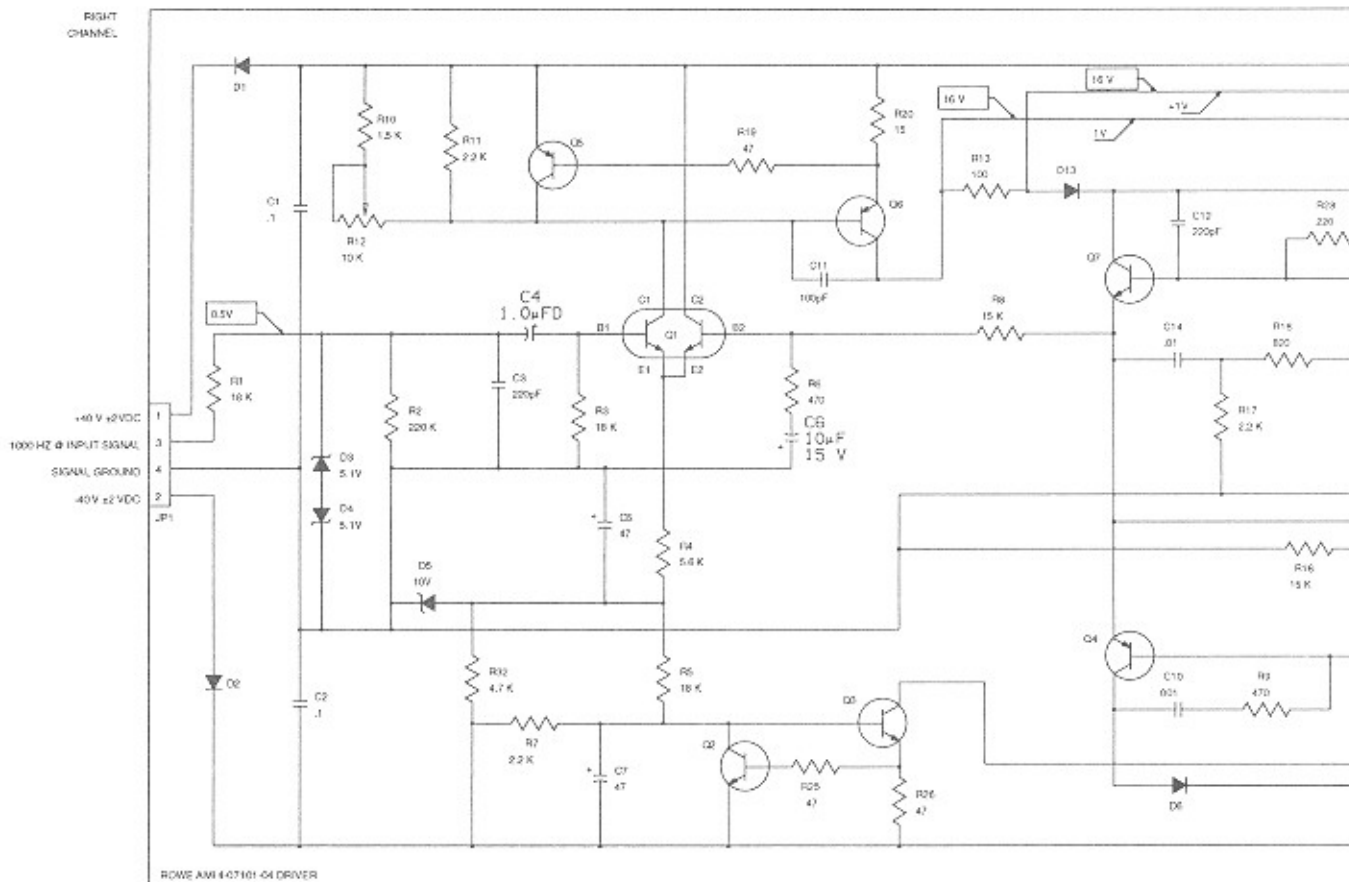


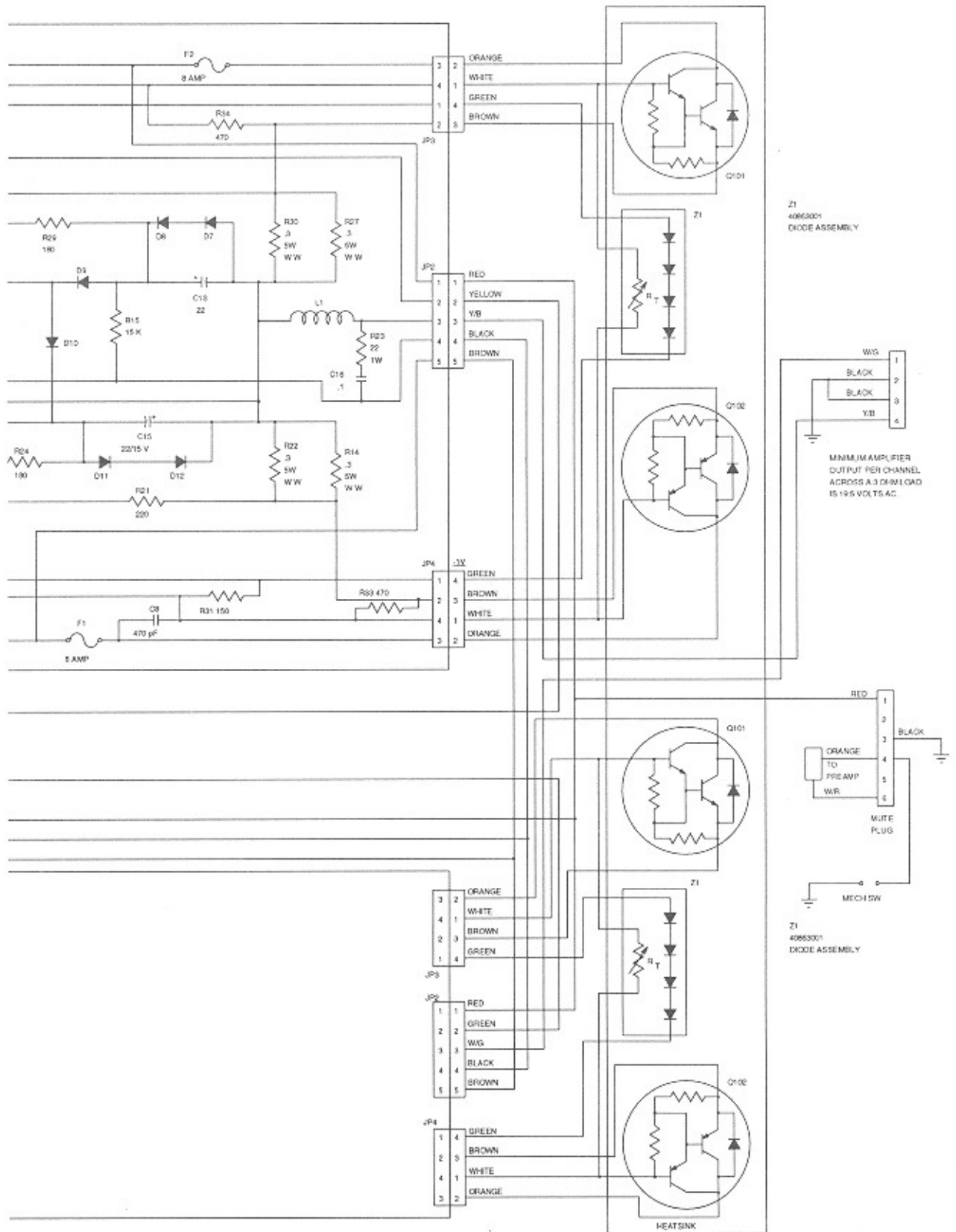
Figure 5-9B. Preamplifier Circuit Board Layout



LEFT CHANNEL

DRIVER BOARD SAME AS ABOVE

- NOTES (UNLESS OTHERWISE SPECIFIED)
1. R12 POTENTIOMETER SET FOR 0V ±0.005VDC @ OUTPUT - PRE-AMP MUTED OR REMOVED, SPEAKER TRANSFORMER PACKAGE DISCONNECTED
 2. ALL RESISTORS ARE 1/8W & RATED IN OHMS.
 3. ALL VOLTAGE TAKEN WITH CHASSIS REFERENCE.
 4. INDICATES AC SIGNAL VOLTAGE NO LOAD.
 5. INDICATES DC VOLTAGE NO LOAD.
 6. IDLE CURRENT (Q101 OR Q102 EMITTER) IS MAX 5.10 MAS - THIS CAN BE MEASURED BY PLACING A VOLT METER ACROSS R30 OR R32. 3 OHM RESISTOR - VOLTAGE SHALL READ FROM .0225 TO .025 VOLTS DC.



For Equivalent Engineering Drawing See 61024903
Figure 5-10A. Schematic Diagram - 250 Watt Power Amp

COMPONENT LIST FOR AMPLIFIER DRIVER BOARD 40710104-J

C1	Capacitor - Mylar	.1 μ F	70021549
C2	Capacitor - Mylar	.1 μ F	70021549
C3	Capacitor - Monolythic Ceramic	220 PF	70028606
C4	Capacitor - Electrolytic	1 μ F	70023804
C5	Capacitor - Electrolytic	47 μ F	70023812
C6	Capacitor - Electrolytic	10 μ F	70023808
C7	Capacitor - Electrolytic	47 μ F	70023812
C8	Capacitor - Monolythic Ceramic	470 PF	70028612
C9	Not Used		
C10	Capacitor - Monolythic Ceramic	.001 μ F	70028618
C11	Capacitor - Monolythic Ceramic	100 PF	70028601
C12	Capacitor - Monolythic Ceramic	220 PF	70028606
C13	Capacitor - Electrolytic	22 μ F	70023810
C14	Capacitor - Monolythic Ceramic	.01 μ F	70028636
C15	Capacitor - Electrolytic	22 μ F	70023810
C16	Capacitor - Mylar	.1 μ F	70021549
CR1	Diode - Silicon		70035005
CR2	Diode - Silicon		70035005
CR3	Diode - Zener	(5.1 V)	70035527
CR4	Diode - Zener	(5.1 V)	70035527
CR5	Diode - Zener	(10 V)	70035514
CR6	Diode - Silicon		70035005
CR7	Diode - Silicon		70035005
CR8	Diode - Silicon		70035005
CR9	Diode - Silicon		70035005
CR10	Diode - Silicon		70035005
CR11	Diode - Silicon		70035005
CR12	Diode - Silicon		70035005
CR13	Diode - Silicon		70035005
F1	Fuse (8 Amp)		70072002
F2	Fuse (8 Amp)		70072002
L1	Inductor - Coil		21940701
P1	Wafer - Non-Polarizing	(4 CKT)	70074904
P2	Wafer - Polarizing	(5 CKT)	70075005
P3	Wafer - Polarizing	(4 CKT)	70075004
P4	Wafer - Polarizing	(4 CKT)	70075004
Q1	Transistor - Silicon (Dual)	(NPN)	70030301
Q2	Transistor - Silicon	(NPN)	70030008
Q3	Transistor - Silicon	(NPN)	70033006
Q4	Transistor - Silicon	(PNP)	70030104
Q5	Transistor - Silicon	(PNP)	70030104
Q6	Transistor - Silicon		70030403
Q7	Transistor - Silicon	(NPN)	70030008
NOTE: All resistors are 1/4 watt 5% unless otherwise indicated.			
R1	Resistor - Carbon	18 K Ω	79901183
R2	Resistor - Carbon	220 K Ω	79901224
R3	Resistor - Carbon	18 K Ω	79901183
R4	Resistor - Carbon	5.6 K Ω	79901562
R5	Resistor - Carbon	18 K Ω	79901183
R6	Resistor - Carbon	470 Ω	79901471

R7	Resistor - Carbon	2.2 Ω	79901222
R8	Resistor - Carbon	15 K Ω	79901153
R9	Resistor - Carbon	470 Ω	79901471
R10	Resistor - Carbon	1.5 K Ω	79901152
R11	Resistor - Carbon	2.2 K Ω	79901222
R12	Resistor - Potentiometer	10 K Ω	70040014
R13	Resistor - Carbon	100 Ω	79901101
R14	Resistor - Wire Wound	.3 Ω	70011805
R15	Resistor - Carbon	15 K Ω	79901153
R16	Resistor - Carbon	15 K Ω	79901153
R17	Resistor - Carbon	2.2 K Ω	79901222
R18	Resistor - Carbon	820 Ω	79901821
R19	Resistor - Carbon	47 Ω	79901470
R20	Resistor - Carbon	15 Ω	79901150
R21	Resistor - Carbon	180 Ω	79901181
R22	Resistor - Wire Wound	.3 Ω	70011805
R23	Resistor - Wire Wound	22 Ω	79920220
R24	Resistor - Carbon	180 Ω	79901181
R25	Resistor - Carbon	47 Ω	79901470
R26	Resistor - Carbon	47 Ω	79901470
R27	Resistor - Wire Wound (5 W, 10%)	.3 Ω	70011805
R28	Resistor - Carbon	180 Ω	79901181
R29	Resistor - Carbon	180 Ω	79901181
R30	Resistor - Wire Wound (5 W 10%)	.3 Ω	70011805
R31	Resistor - Carbon	220 Ω	79901221
R32	Resistor - Carbon	4.7 K Ω	79901472
R33	Resistor - Carbon	470 Ω	79901471
R34	Resistor - Carbon	470 Ω	79901471

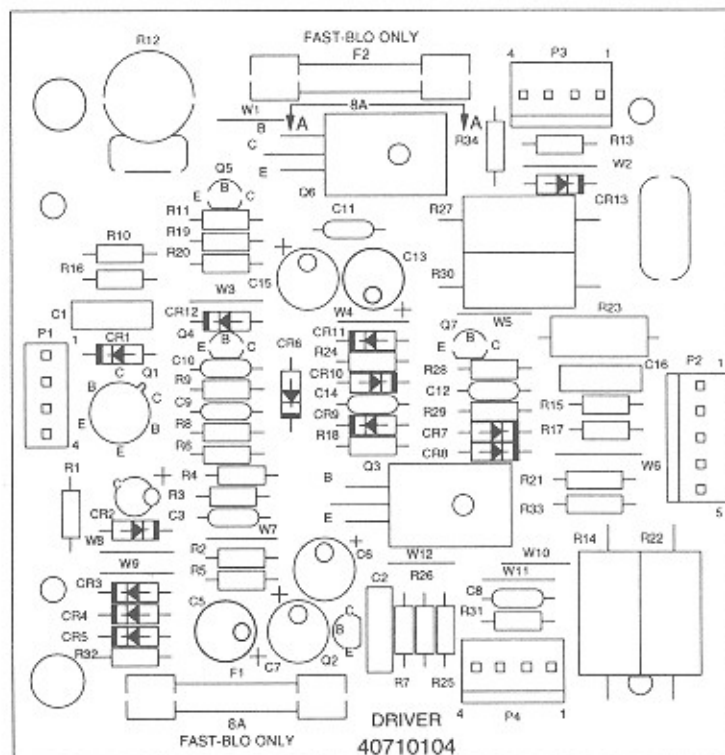
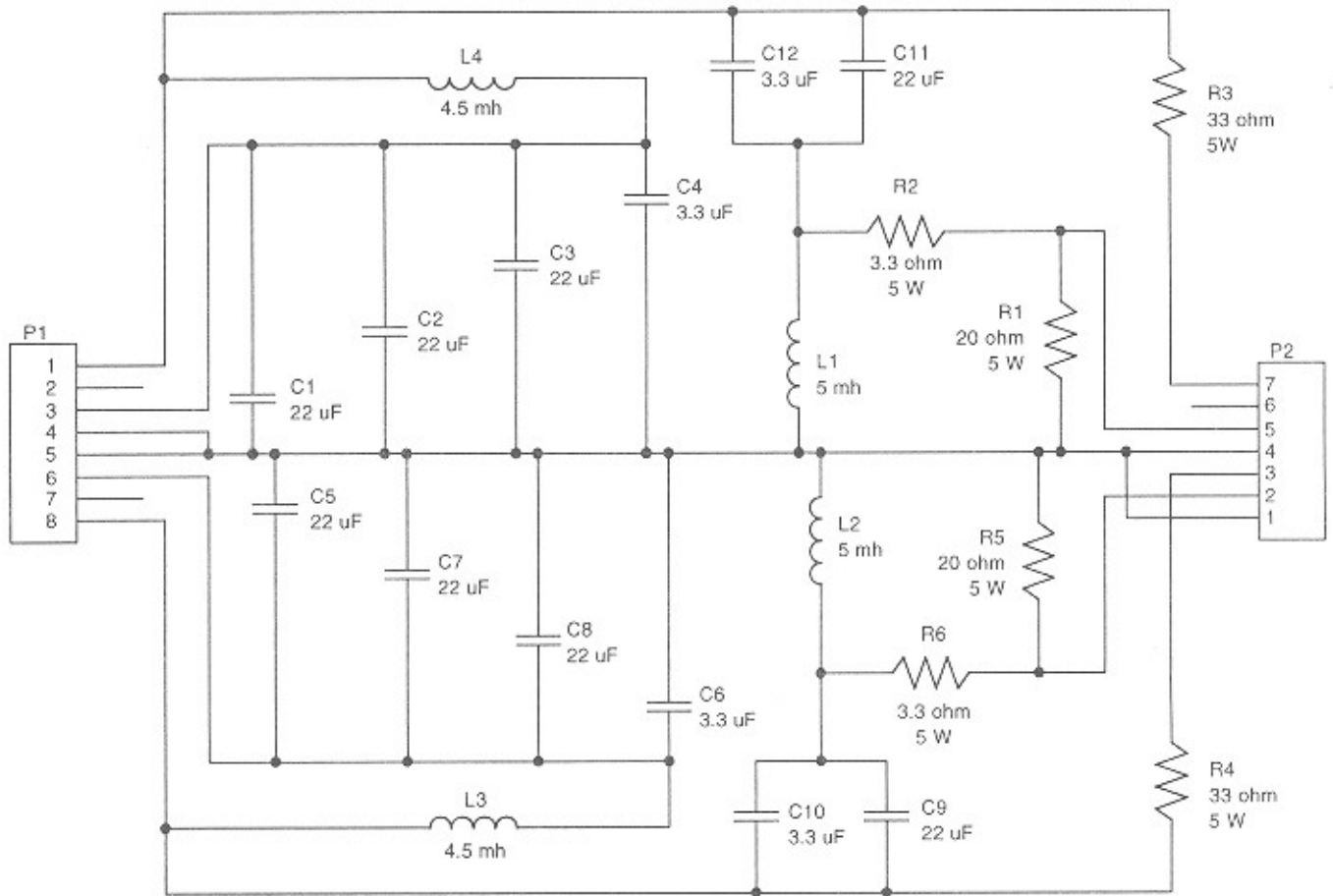


Figure 5-10B. Amplifier Driver Board Layout



For Equivalent Engineering Drawing See 61052701
Figure 5-10C. Circuit Board Assembly - Crossover

COMPONENT LIST FOR CROSSOVER NETWORK 61052701

* C1	Capacitor - Bi-Polar Electrolytic	22 μ F		70022809
* C2	Capacitor - Bi-Polar Electrolytic	22 μ F		70022809
* C3	Capacitor - Bi-Polar Electrolytic	22 μ F		70022809
C4	Capacitor - Bi-Polar Electrolytic	3.3 μ F		70022801
* C5	Capacitor - Bi-Polar Electrolytic	22 μ F		70022809
C6	Capacitor - Bi-Polar Electrolytic	3.3 μ F		70022801
* C7	Capacitor - Bi-Polar Electrolytic	22 μ F		70022809
* C8	Capacitor - Bi-Polar Electrolytic	22 μ F		70022809
C9	Capacitor - Bi-Polar Electrolytic	22 μ F		70022809
C10	Capacitor - Bi-Polar Electrolytic	3.3 μ F		70022801
C11	Capacitor - Bi-Polar Electrolytic	22 μ F		70022809
C12	Capacitor - Bi-Polar Electrolytic	3.3 μ F		70022801
L1	Inductor	5 mH		70041401 or 70041302
L2	Inductor	5 mH		70041401 or 70041302
L3	Inductor	4.5 mH	70041401 or 70041406 or 70041301	
L4	Inductor	4.5 mH	70041401 or 70041406 or 70041301	
P1	Header - Vertical Polarized	(8 CKT)		70075008
P2	Header - Vertical Polarized	(7 CKT)		70075007
R1	Resistor - Wirewound 5W	20 Ω		70012514
R2	Resistor - Wirewound 5W	3.3 Ω		70012513
R3	Resistor - Wirewound 5W	33 Ω		70012512
R4	Resistor - Wirewound 5W	33 Ω		70012512
R5	Resistor - Wirewound 5W	20 Ω		70012514
R6	Resistor - Wirewound 5W	3.3 Ω		70012513

NOTES:

The following substitutions may be made:

$$* C1 (22 \mu\text{F}) + C2 (22 \mu\text{F}) + C3 (22 \mu\text{F}) + C4 (3.3 \mu\text{F}) = 69.3 \mu\text{F}$$

$$* C5 (22 \mu\text{F}) + C7 (22 \mu\text{F}) + C8 (22 \mu\text{F}) + C6 (3.3 \mu\text{F}) = 69.3 \mu\text{F}$$

OR

$$* C2 (33 \mu\text{F}) + C3 (33 \mu\text{F}) + C4 (3.3 \mu\text{F}) = 69.3 \mu\text{F}$$

$$* C7 (33 \mu\text{F}) + C8 (33 \mu\text{F}) + C6 (3.3 \mu\text{F}) = 69.3 \mu\text{F}$$

C1 and C5 Not Used.

Either of the above combinations may be used to obtain the nominal 19.5 mF.

Amplifier Full Power Output Voltages (Per Channel)

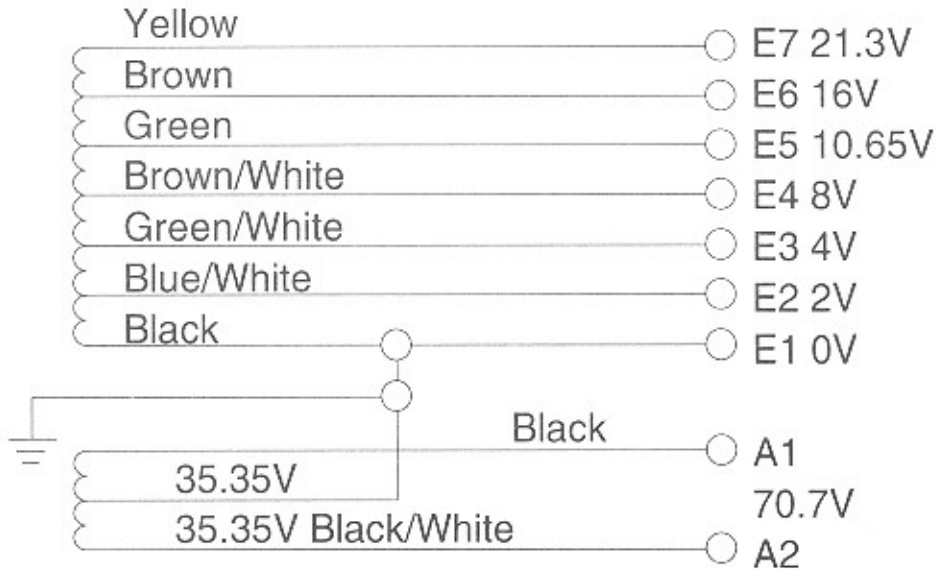
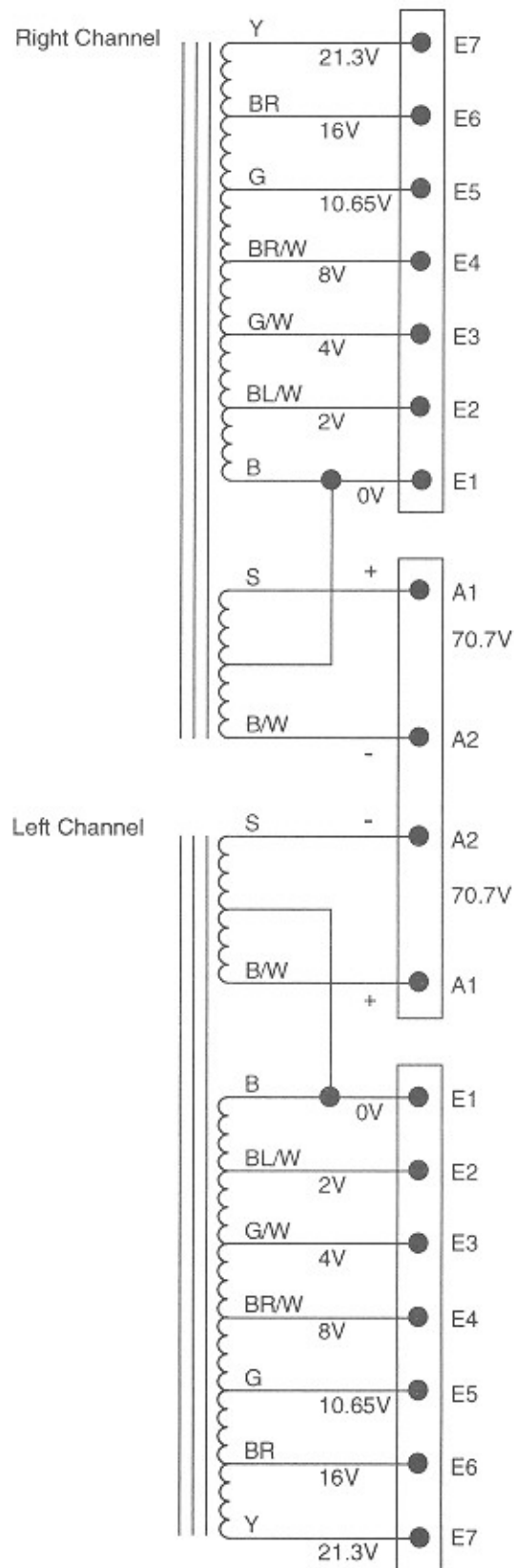
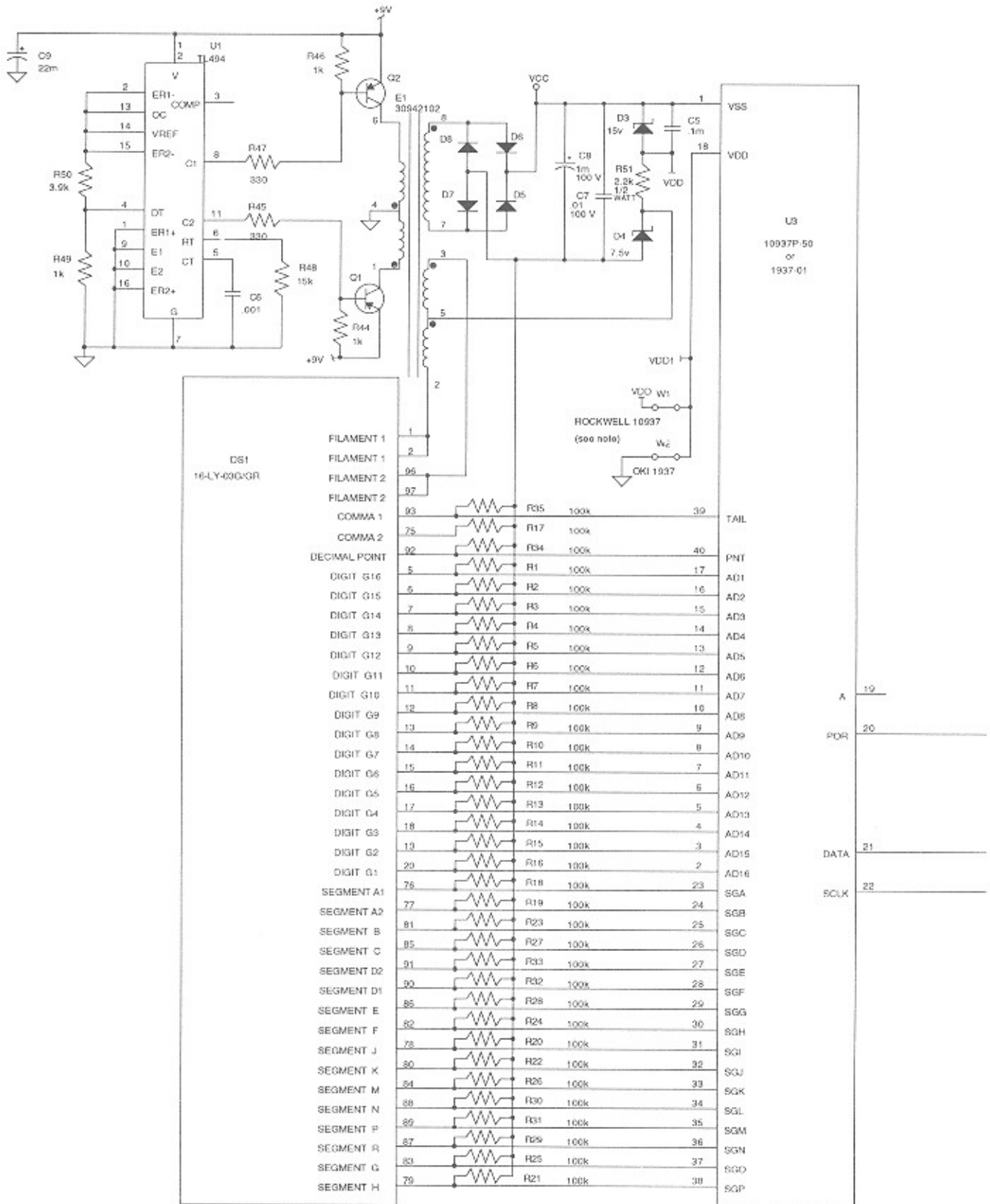


Figure 5-11. Transformer Output Voltages

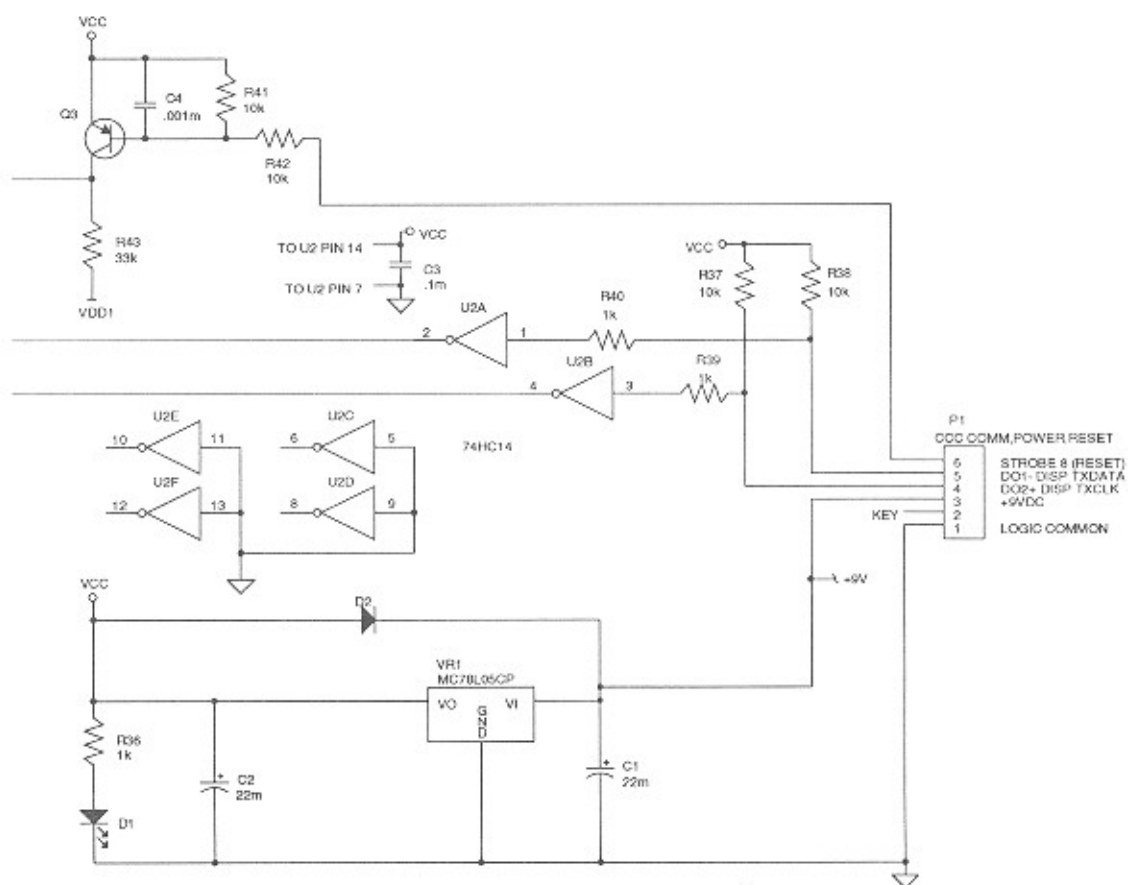


For Equivalent Engineering Drawing See 40875301-Q2 A
Figure 5-12. Transformer Wiring Diagram



NOTE:

	AT U3	W1	W2
	30800237	USED	NOT USED
	30800258	NOT USED	USED



For Equivalent Engineering Drawing See 40855001-Q2 B
Figure 5-13A. Display Assembly

COMPONENT LIST FOR THE DISPLAY ASSEMBLY (40855001)

C1	Capacitor - Tantalum 15 VDC 10%	22 μ F	70025104
C2	Capacitor - Tantalum 15 VDC 10%	22 μ F	70025104
C3	Capacitor - Monolythic Ceramic	.1 μ F	70028511
C4	Capacitor - Monolythic Ceramic 10%	.001 μ F	70028618
C5	Capacitor - Monolythic Ceramic	.1 μ F	70028511
C6	Capacitor - Monolythic Ceramic 10%	.001 μ F	70028618
C7	Capacitor - Monolythic Ceramic	.1 μ F	70028511
C8	Capacitor - Electrolytic 100 VDC 20%	1 μ F	70028101
C9	Capacitor - Tantalum 15 VDC 10%	22 μ F	70025104
D1	Diode - Light Emitting Red Diffused		70035305
D2	Diode - Silicon	1N4004	70035005
D3	Diode - Zener 15V 1/2W 5%	1N965B	70035522
D4	Diode - Zener 7.5V 1/2W 5%	1N958B	70035520
D5	Diode - Silicon	1N4148	70035012
D6	Diode - Silicon	1N4148	70035012
D7	Diode - Silicon	1N4148	70035012
D8	Diode - Silicon	1N4148	70035012
DS1	Display - Vac Flu (16 Char)	16-LY-03G	30933204
E1	Transformer DC-DC/AC	30942102	
P1	Header - Polarized .156 6 Position	70075006	
Q1	Transistor - Silicon PNP	MPSA56	70030104
Q2	Transistor - Silicon PNP	MPSA56	70030104
Q3	Transistor - Silicon PNP	MPSA56	70030104

NOTE: All resistors are 1/4 watt 5% unless otherwise indicated.

R1-R35	Resistor - Carbon Film (1/8W 5%)	100 K Ω	79905104
R36	Resistor - Carbon Film	1 K Ω	79901102
R37	Resistor - Carbon Film	10 K Ω	79901103
R38	Resistor - Carbon Film	10 K Ω	79901103
R39	Resistor - Carbon Film	1 K Ω	79901102
R40	Resistor - Carbon Film	1 K Ω	79901102
R41	Resistor - Carbon Film	10 K Ω	79901103
R42	Resistor - Carbon Film	10 K Ω	79901103
R43	Resistor - Carbon Film	33 K Ω	79901333
R44	Resistor - Carbon Film	1 K Ω	79901102
R45	Resistor - Carbon Film	330 Ω	79901331
R46	Resistor - Carbon Film	1 K Ω	79901102
R47	Resistor - Carbon Film	330 Ω	79901331
R48	Resistor - Carbon Film	15 K Ω	79901153
R49	Resistor - Carbon Film	1 K Ω	79901102
R50	Resistor - Carbon Film	3.9 K Ω	79901392
R51	Resistor - Carbon Film	1.8 K Ω	79901182

U1	I.C.-PWM Control Circuit	TL494	30800257
U2	Schmitt Trigger Inverter	74HC14I.C.-HEX	79940014
U3	Driver-Display (Vac Flu)	10937P-50	30800237
SEE NOTE			
OR			
	Driver-Display (Vac Flu)	MSC1937-01	30800258
SEE NOTE			
VR1	Regulator - Voltage (Linear IC)	MC78L05ACP	70036515
W1	Wire - Bare		00503200
SEE NOTE			
W2	Wire - Bare		00503200
SEE NOTE			

NOTE: Insert W1 (W2 Open) If Rockwell 10937 (30800237) at U3.
 Insert W2 (W1 Open) If OKI 1937 (30800258) at U3.

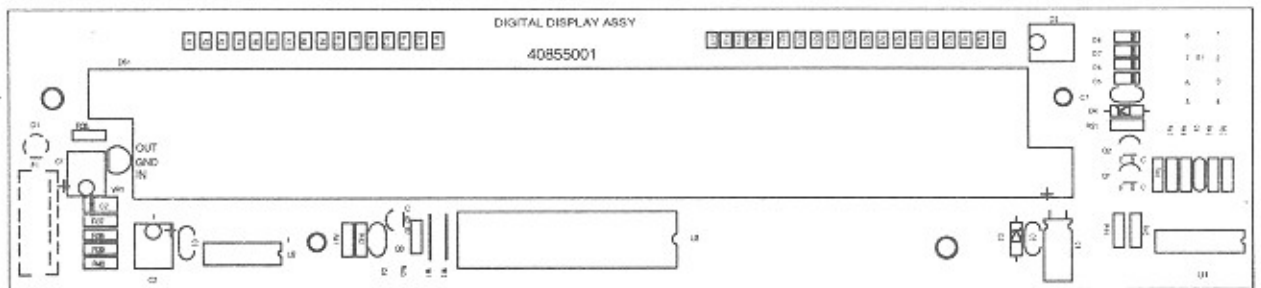
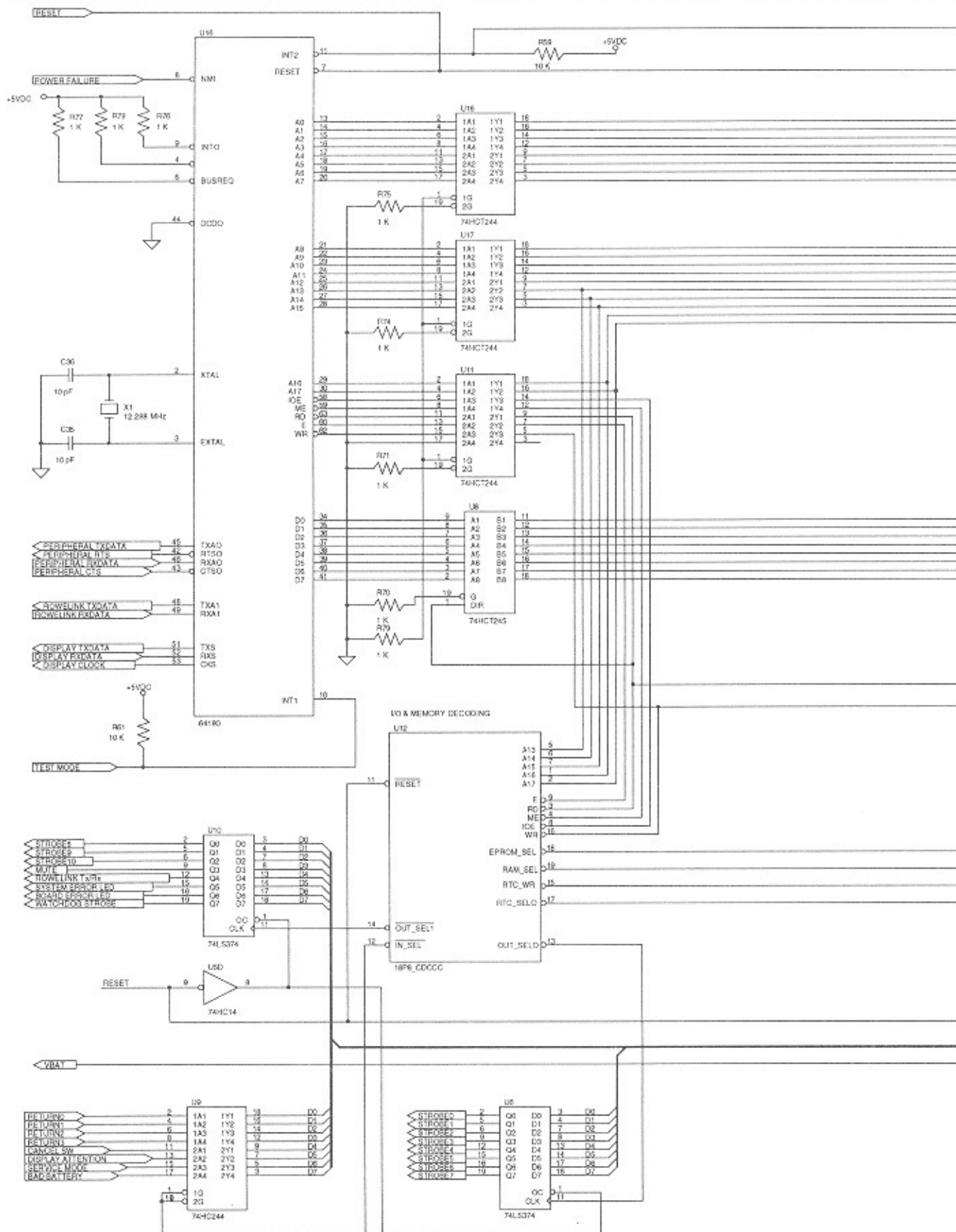
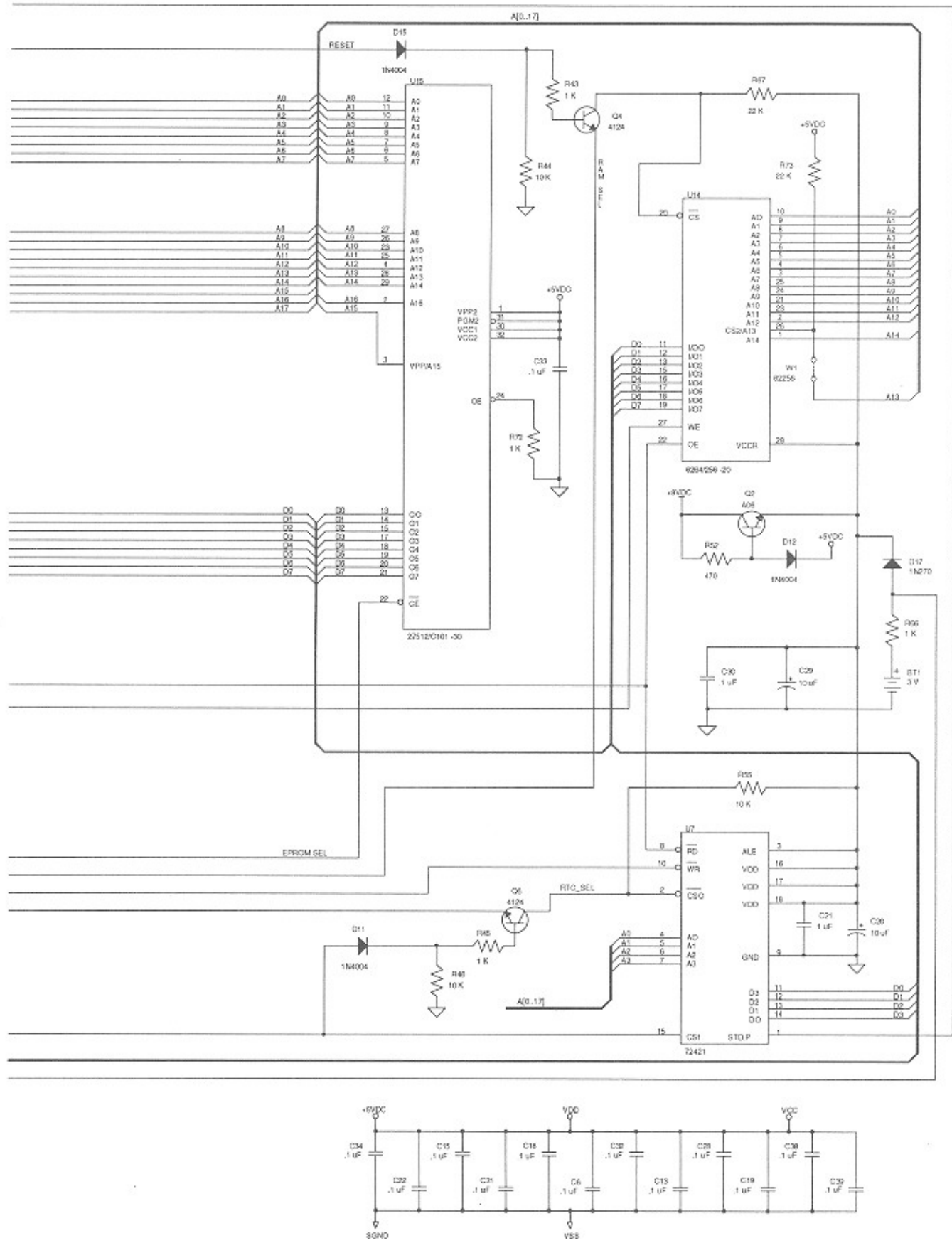


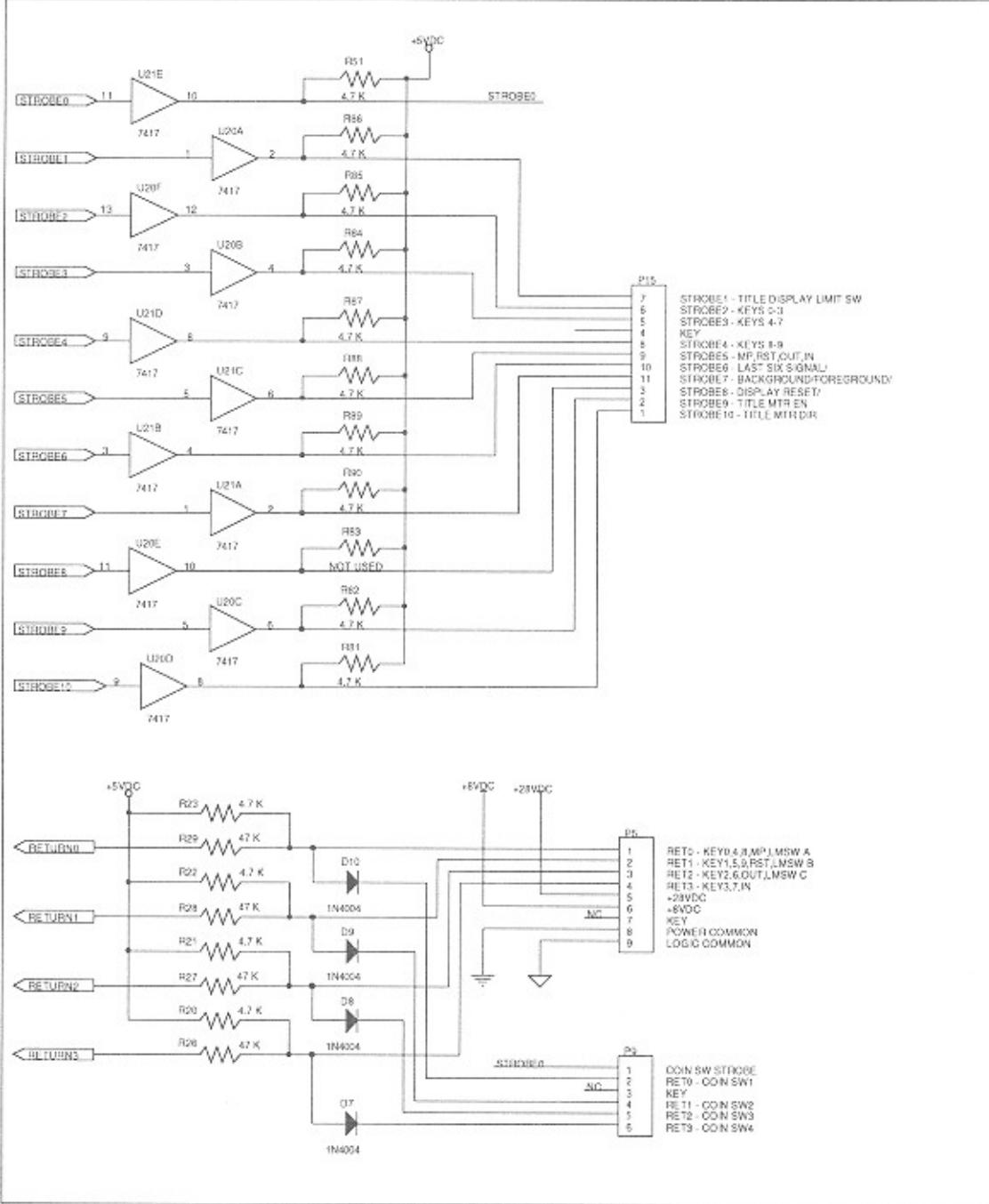
Figure 5-13B. Display Assembly Circuit Board Layout 40855001



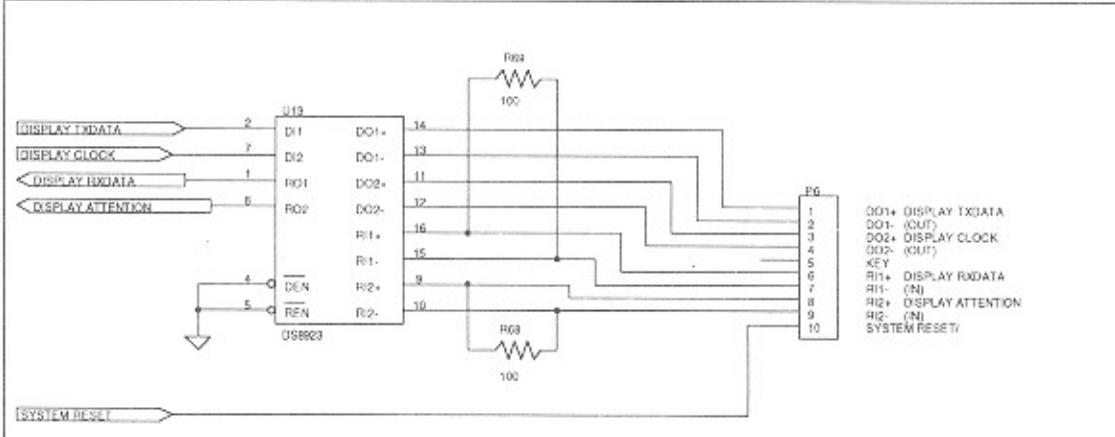


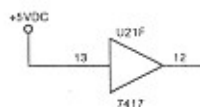
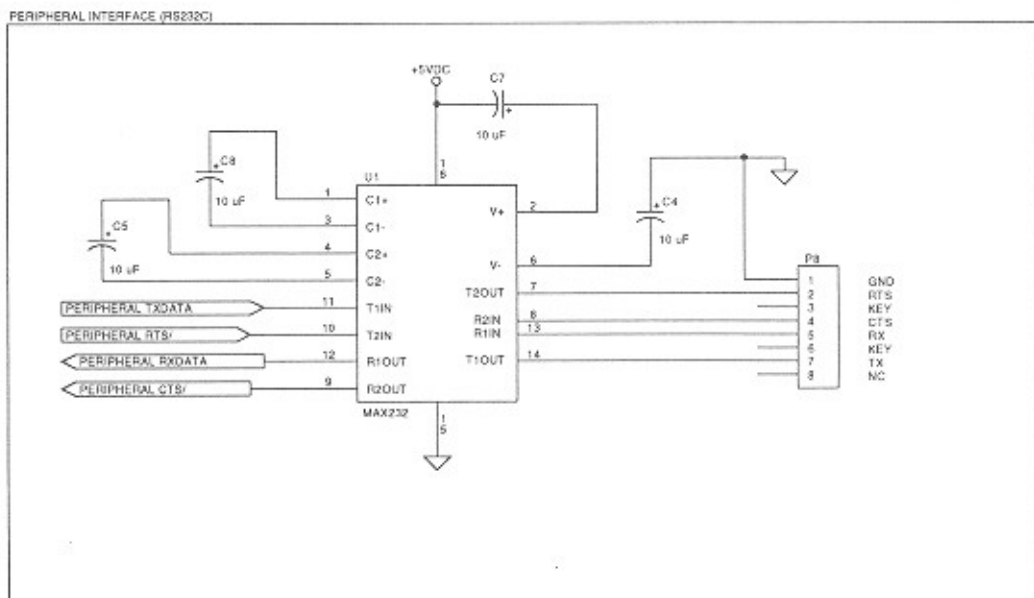
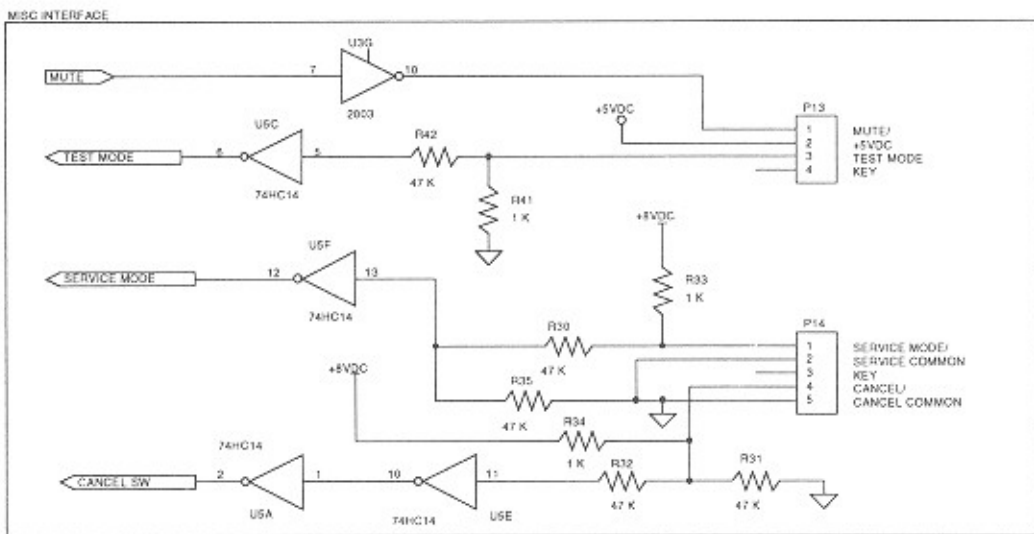
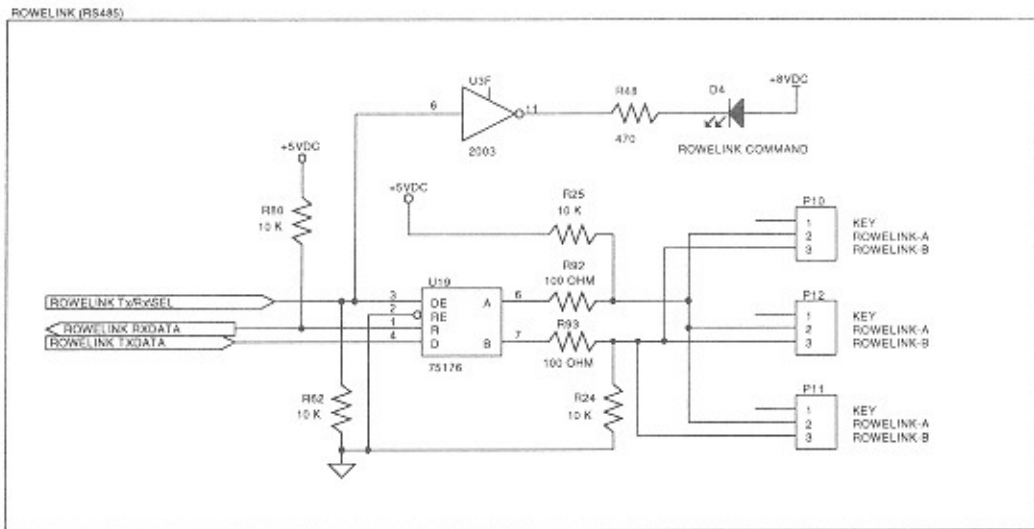
For Equivalent Engineering Drawing See 61031120-Q2 F
Figure 5-14A. Central Control Computer Schematic, Sheet 1

DISPLAY/KEYBOARD INTERFACE



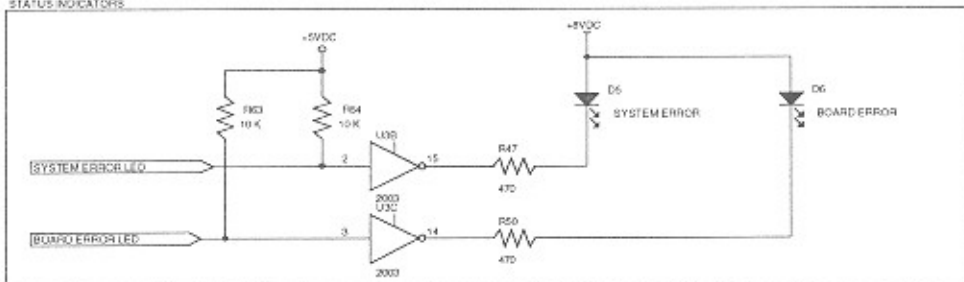
DISPLAY INTERFACE [RS422]



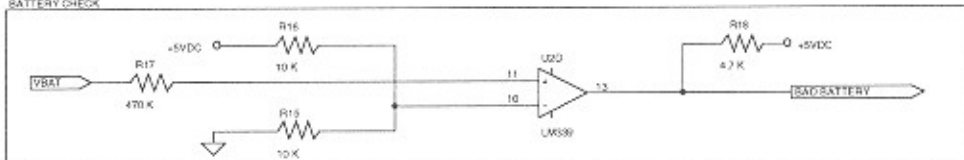


For Equivalent Engineering Drawing See 61031120-Q2 F
Figure 5-14A. Central Control Computer Schematic, Sheet 2

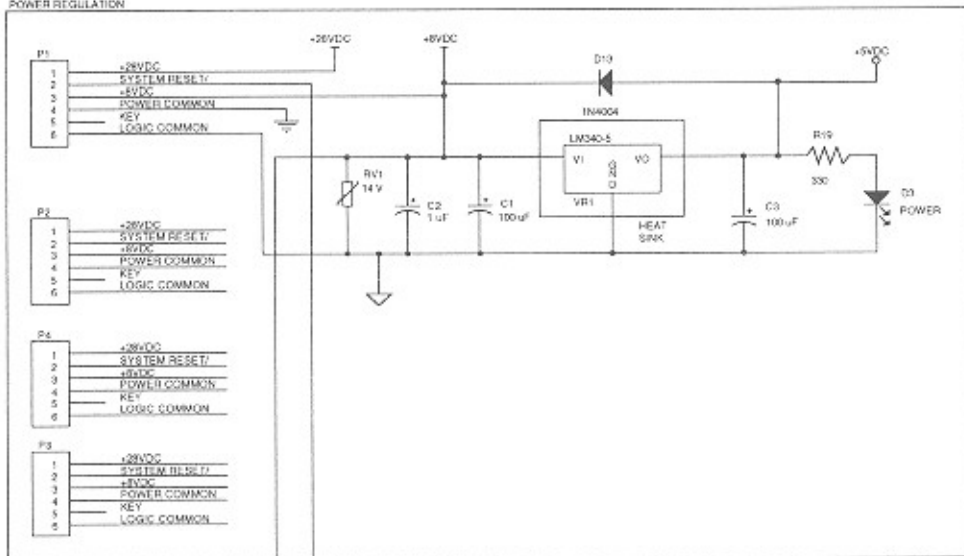
STATUS INDICATORS



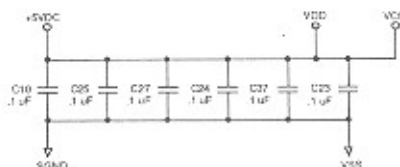
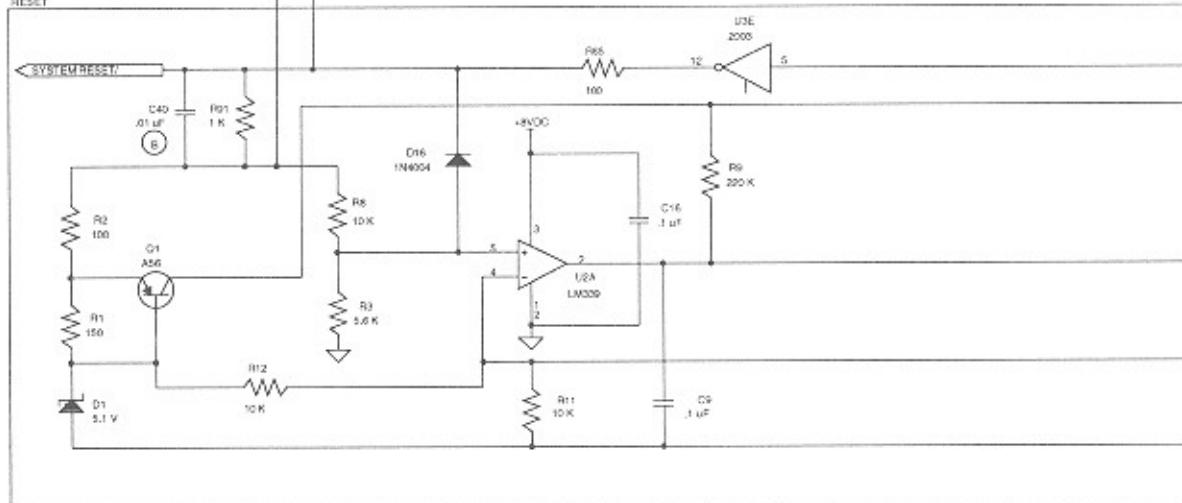
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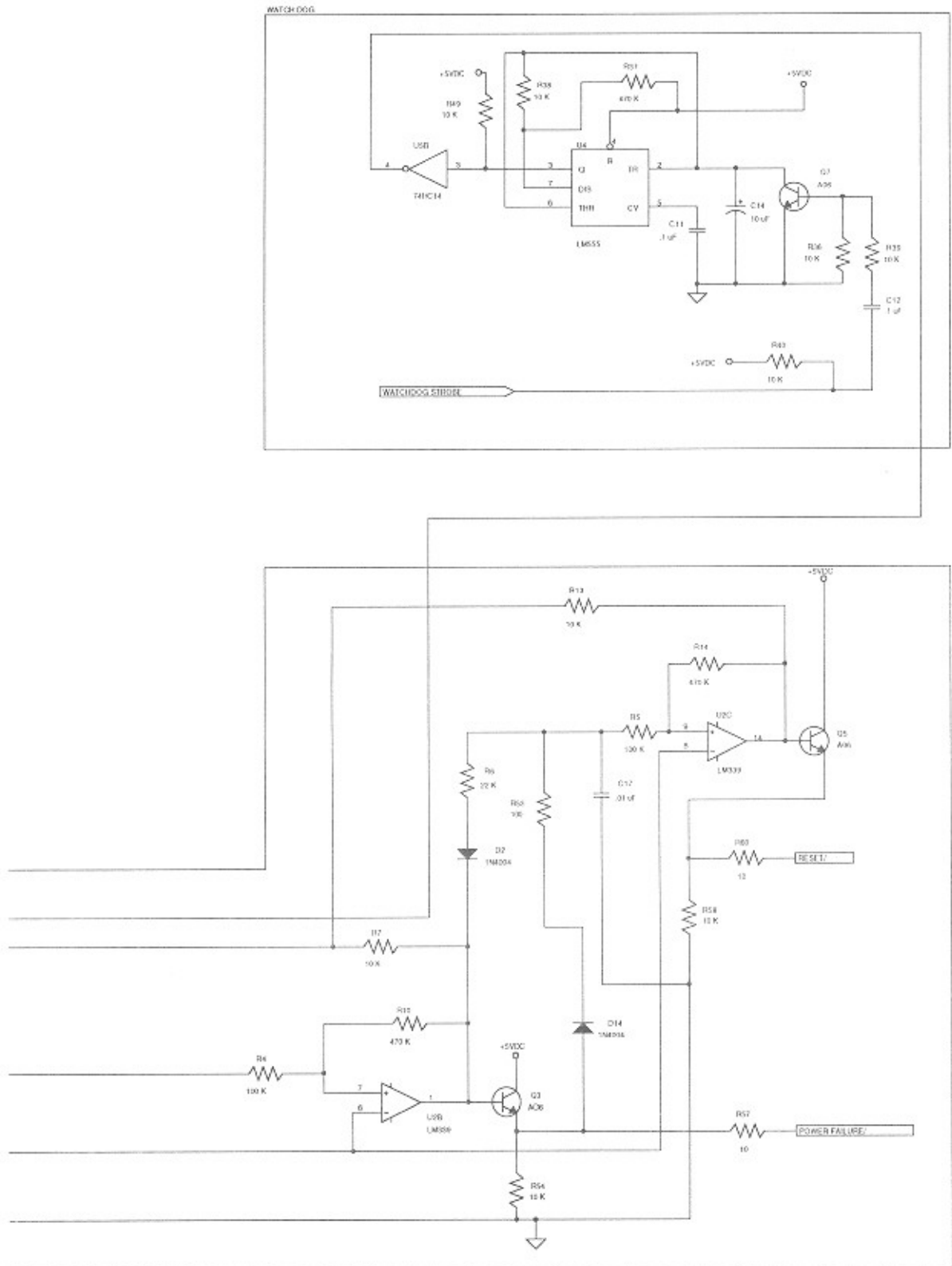


POWER REGULATION



RESET





For Equivalent Engineering Drawing See 61031120-Q2 F
Figure 5-14A. Central Control Computer Schematic, Sheet 3

Table 5-3. CD-100F C.C.C. IC Power and Common Pin Chart

Ref.	Generic Part #	Power		Common	
		+5 VDC	+8 VDC	Logic	Power
U1	MAX232	16	—	15	—
U2	LM339	—	3	12	—
U3	2003	—	—	8	—
U4	LM555	8	—	1	—
U5	74HC14	14	—	7	—
U6	74LS374	20	—	10	—
U7	72421	16, 17, 18	—	9	—
U8	74HCT245	20	—	10	—
U9	74HC244	20	—	10	—
U10	74LS374	20	—	10	—
U11	74HCT244	20	—	10	—
U12	18P8_CDCCC	20	—	10	—
U13	DS8923	3	—	6	—
U14	6264/6256	28	—	14	—
U15	27512/27C101	32, 30	—	16	—
U16	64180	32	—	1, 33	—
U17	74HCT244	20	—	10	—
U18	74HCT244	20	—	10	—
U19	75176	8	—	5	—
U20	7417	14	—	7	—
U21	7417	14	—	7	—

For Equivalent Engineering Drawing See 61031120-Q2
Figure 5-14A. Central Control Computer Schematic, Sheet 4

COMPONENT LIST FOR CENTRAL CONTROL COMPUTER (61031120)

BT1	Battery - Lithium	160 mah 3V (with holder) OR 750 mah 3V	30873101 40788901
C1	Capacitor - Electrolytic	100 μ F	70023814
C2	Capacitor - Tantalum	1 μ F	70025121
C3	Capacitor - Electrolytic	100 μ F	70023814
C4	Capacitor - Electrolytic	10 μ F	70023808
C5	Capacitor - Electrolytic	10 μ F	70023808
C6	Capacitor - Monolythic Ceramic	.1 μ F	70028511
C7	Capacitor - Electrolytic	10 μ F	70023808
C8	Capacitor - Electrolytic	10 μ F	70023808
C9	Capacitor - Monolythic Ceramic	.1 μ F	70028511
C10	Not Used		
C11	Capacitor - Monolythic Ceramic	.1 μ F	70028511
C12	Capacitor - Monolythic Ceramic	.1 μ F	70028511
C13	Capacitor - Monolythic Ceramic	.1 μ F	70028511
C14	Capacitor - Electrolytic	10 μ F	70023808
C15	Capacitor - Monolythic Ceramic	.1 μ F	70028511
C16	Capacitor - Monolythic Ceramic	.1 μ F	70028511
C17	Capacitor - Monolythic Ceramic	.01 μ F	70028502
C18	Capacitor - Monolythic Ceramic	.1 μ F	70028511
C19	Capacitor - Monolythic Ceramic	.1 μ F	70028511
C20	Capacitor - Electrolytic	10 μ F	70023808
C21	Capacitor - Monolythic Ceramic	.1 μ F	70028511
C22	Capacitor - Monolythic Ceramic	.1 μ F	70028511
C23	Capacitor - Monolythic Ceramic	.1 μ F	70028511
C24	Capacitor - Monolythic Ceramic	.1 μ F	70028511
C25	Capacitor - Monolythic Ceramic	.1 μ F	70028511
C27	Capacitor - Monolythic Ceramic	.1 μ F	70028511
C28	Capacitor - Monolythic Ceramic	.1 μ F	70028511
C29	Capacitor - Electrolytic	10 μ F	70023808
C30	Capacitor - Monolythic Ceramic	.1 μ F	70028511
C31	Capacitor - Monolythic Ceramic	.1 μ F	70028511
C32	Capacitor - Monolythic Ceramic	.1 μ F	70028511
C33	Capacitor - Monolythic Ceramic	.1 μ F	70028511
C34	Capacitor - Monolythic Ceramic	.1 μ F	70028511
C35	Capacitor - Monolythic Ceramic	10 PF	70028701
C36	Capacitor - Monolythic Ceramic	10 PF	70028701
C37	Capacitor - Monolythic Ceramic	.1 μ F	70028511
C38	Capacitor - Monolythic Ceramic	.1 μ F	70028511
C39	Capacitor - Monolythic Ceramic	.1 μ F	70028511
C40	Capacitor - Monolythic Ceramic	.01 μ F	70028502
D1	Diode - Zener (5.1 V)		70035526
D2	Diode - Silicon	IN4004	70035005
D3	Diode - Light Emitting		70035305
D4	Diode - Light Emitting		70035305
D5	Diode - Light Emitting		70035305
D6	Diode - Light Emitting		70035305
D7	Diode - Silicon	IN4004	70035005
D8	Diode - Silicon	IN4004	70035005
D9	Diode - Silicon	IN4004	70035005
D10	Diode - Silicon	IN4004	70035005

COMPONENT LIST FOR CENTRAL CONTROL COMPUTER (61031120)

(Continued)

D11	Diode - Silicon	IN4004	70035005
D12	Diode - Silicon	IN4004	70035005
D13	Diode - Silicon	IN4004	70035005
D14	Diode - Silicon	IN4004	70035005
D15	Diode - Silicon	IN4004	70035005
D16	Diode - Silicon	IN4004	70035005
D17	Diode - Germanium	IN270	70035101
P1	Wafer - Polarizing	6 CKT	70075006
P2	Wafer - Polarizing	6 CKT	70075006
P3	Wafer - Polarizing	6 CKT	70075006
P4	Wafer - Polarizing	6 CKT	70075006
P5	Wafer - Polarizing	9 CKT	70075009
P6	Wafer - Polarizing	10 CKT	70075010
P7	Not Used		
P8	Wafer - Polarizing	8 CKT	70075008
P9	Wafer - Polarizing	6 CKT	70075006
P10	Wafer - Polarizing	3 CKT	70075003
P11	Wafer - Polarizing	3 CKT	70075003
P12	Wafer - Polarizing	3 CKT	70075003
P13	Wafer - Polarizing	4 CKT	70075004
P14	Wafer - Polarizing	5 CKT	70075005
P15	Wafer - Polarizing	11 CKT	70075011
Q1	Transistor - Silicon (PNP)		70030104
Q2	Transistor - Silicon (NPN)		70030008
Q3	Transistor - Silicon (NPN)		70030008
Q4	Transistor - Silicon (NPN)		70031301
Q5	Transistor - Silicon (NPN)		70030008
Q6	Transistor - Silicon (NPN)		70031301
Q7	Transistor - Silicon (NPN)		70030008

NOTE: All resistors are 1/4 watt 5% unless otherwise indicated.

R1	Resistor - Carbon	150 Ω	79901151
R2	Resistor - Carbon	100 Ω	79901101
R3	Resistor - Carbon (1/4 W, 2%)	5.6 K Ω	79902562
R4	Resistor - Carbon	100 K Ω	79901104
R5	Resistor - Carbon	100 K Ω	79901104
R6	Resistor - Carbon	22 K Ω	79901223
R7	Resistor - Carbon	10 K Ω	79901103
R8	Resistor - Carbon Film (1/4 W, 2%)	10 K Ω	79902103
R9	Resistor - Carbon	220 K Ω	79901224
R10	Resistor - Carbon	470 K Ω	79901474
R11	Resistor - Carbon Film (1/4 W, 2%)	10 K Ω	79902103
R12	Resistor - Carbon Film (1/4 W, 2%)	10 K Ω	79902103
R13	Resistor - Carbon	10 K Ω	79901103
R14	Resistor - Carbon	470 K Ω	79901474
R15	Resistor - Carbon	10 K Ω	79901103
R16	Resistor - Carbon	10 K Ω	79901103
R17	Resistor - Carbon	470 K Ω	79901474
R18	Resistor - Carbon	4.7 K Ω	79901472
R19	Resistor - Carbon	330 Ω	79901331
R20	Resistor - Carbon	4.7 K Ω	79901472
R21	Resistor - Carbon	4.7 K Ω	79901472
R22	Resistor - Carbon	4.7 K Ω	79901472
R23	Resistor - Carbon	4.7 K Ω	79901472

R24	Resistor - Carbon	10 K Ω	79901472
R25	Resistor - Carbon	10 K Ω	79901103
R26	Resistor - Carbon	47 K Ω	79901473
R27	Resistor - Carbon	47 K Ω	79901473
R28	Resistor - Carbon	47 K Ω	79901473
R29	Resistor - Carbon	47 K Ω	79901473
R30	Resistor - Carbon	47 K Ω	79901473
R31	Resistor - Carbon	47 K Ω	79901473
R32	Resistor - Carbon	47 K Ω	79901473
R33	Resistor - Carbon	1 K Ω	79901102
R34	Resistor - Carbon	1 K Ω	79901102
R35	Resistor - Carbon	47 K Ω	79901473
R36	Resistor - Carbon	10 K Ω	79901103
R37	Resistor - Carbon	470 K Ω	79901474
R38	Resistor - Carbon	10 K Ω	79901103
R39	Resistor - Carbon	10 K Ω	79901103
R40	Resistor - Carbon	10 K Ω	79901103
R41	Resistor - Carbon	1 K Ω	79901102
R42	Resistor - Carbon	47 K Ω	79901473
R43	Resistor - Carbon	1 K Ω	79901102
R44	Resistor - Carbon	10 K Ω	79901103
R45	Resistor - Carbon	1 K Ω	79901102
R46	Resistor - Carbon	10 K Ω	79901103
R47	Resistor - Carbon	470 Ω	79901471
R48	Resistor - Carbon	470 Ω	79901471
R49	Resistor - Carbon	10 K Ω	79901103
R50	Resistor - Carbon	470 Ω	79901471
R51	Resistor - Carbon	4.7 K Ω	79901472
R52	Resistor - Carbon	470 Ω	79901471
R53	Resistor - Carbon	100 Ω	79901101
R54	Resistor - Carbon	10 K Ω	79901103
R55	Resistor - Carbon	10 K Ω	79901103
R57	Resistor - Carbon	10 Ω	79901100
R58	Resistor - Carbon	10 K Ω	79901103
R59	Resistor - Carbon	10 K Ω	79901103
R60	Resistor - Carbon	10 Ω	79901100
R61	Resistor - Carbon	10 K Ω	79901103
R62	Resistor - Carbon	10 K Ω	79901103
R63	Resistor - Carbon	10 K Ω	79901103
R64	Resistor - Carbon	10 K Ω	79901103
R65	Resistor - Carbon	100 Ω	79901101
R66	Resistor - Carbon	1 K Ω	79901102
R67	Resistor - Carbon	22 K Ω	79901223
R68	Resistor - Carbon	100 Ω	79901101
R69	Resistor - Carbon	100 Ω	79901101
R70	Resistor - Carbon	1 K Ω	79901102
R71	Resistor - Carbon	1 K Ω	79901102
R72	Resistor - Carbon	1 K Ω	79901102
R73	Resistor - Carbon	22 K Ω	79901223
R74	Resistor - Carbon	1 K Ω	79901102
R75	Resistor - Carbon	1 K Ω	79901102
R76	Resistor - Carbon	1 K Ω	79901102
R77	Resistor - Carbon	1 K Ω	79901102
R78	Resistor - Carbon	1 K Ω	79901102
R79	Resistor - Carbon	1 K Ω	79901102
R80	Resistor - Carbon	10 K Ω	79901103
R81	Resistor - Carbon	4.7 K Ω	79901472
R82	Resistor - Carbon	4.7 K Ω	79901472
R83	Not Used		

COMPONENT LIST FOR CENTRAL CONTROL COMPUTER (61031120)

(Continued)

R84	Resistor - Carbon	4.7 K Ω	79901472
R85	Resistor - Carbon	4.7 K Ω	79901472
R86	Resistor - Carbon	4.7 K Ω	79901472
R87	Resistor - Carbon	4.7 K Ω	79901472
R88	Resistor - Carbon	4.7 K Ω	79901472
R89	Resistor - Carbon	4.7 K Ω	79901472
R90	Resistor - Carbon	4.7 K Ω	79901472
R91	Resistor - Carbon	1 K Ω	79901102
R92	Resistor - Carbon	100 Ω	79901101
R93	Resistor - Carbon	100 Ω	79901101
RV1	Metal Oxide Varistor	14 VDC	70037505 70037507
U1	Not Used		
U2	I.C. - Quad Comparator (LM339)	(3302)	70036801
U3	I.C. - Darlington Array	(2003)	70036901
U4	I.C. - Timer	(LM555)	70033801
U5	I.C. - HCT (Hex Schmitt Trigger)	74HC14	79940014
U6	I.C. - Octal Edge Triggered F/F	74LS374	70037111
U7	I.C. - Calendar Clock	72421	30800236
U8	I.C. - HCT (Octal Bus Transceiver)	74HCT245	79930245
U9	I.C. - HC-Tristate Octal Buffer	74HC244	79940244
U10	I.C. - Octal Edge triggered F/F	74LS374	70037111
U11	I.C. - HCT (Octal Buffer/Line Driver)	74HCT244	79930244
U12	I.C. - PAL 18P8-CDCCC		30800232
U13	I.C. - RS-422 Dual Driver/Revr	DS8923	30800230
U14	I.C. - CMOS RAM 8K X 8	6264	70036604
U15	I.C. - EPROM (128 K X 8) 2700	V3.6	70042704
U16	I.C. - Microprocessor	64180	70039126
U17	I.C. - HCT (Octal Buffer/Line Driver)	74HCT244	79930244
U18	I.C. - HCT (octal Buffer/Line Driver)	74HCT244	79930244
U19	I.C. - Transceiver (RS-485)	75176	70037801
U20	I.C. - TTL Buffer (Open Collector)	7417	70036305
U21	I.C. - TTL Buffer (Open Collector)	7417	70036305
VR1	Regulator - Voltage (Linear I.C.)	LM340-5	70036505
W1	Not Used		
X1	Crystal - Quartz (12.288 MHz)		25167314

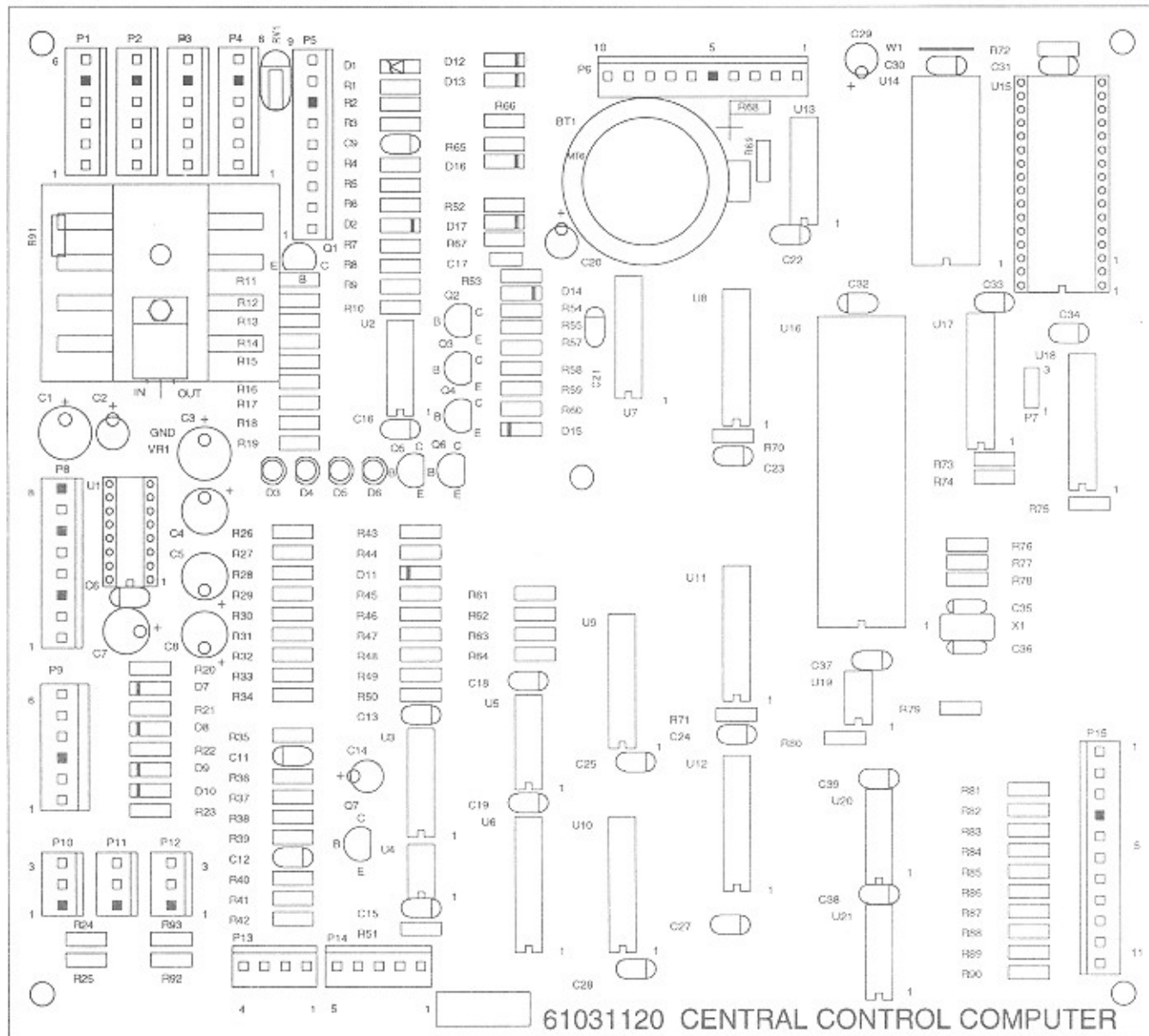


Figure 5-14B. Central Control Computer Circuit Board Layout

The chart below shows the various combinations of strobes (outputs from the CCC) and returns (inputs to the CCC) and their corresponding functions.

Strobes 0 through 5 appear on Returns 0 through 3 when the indicated switches are activated.

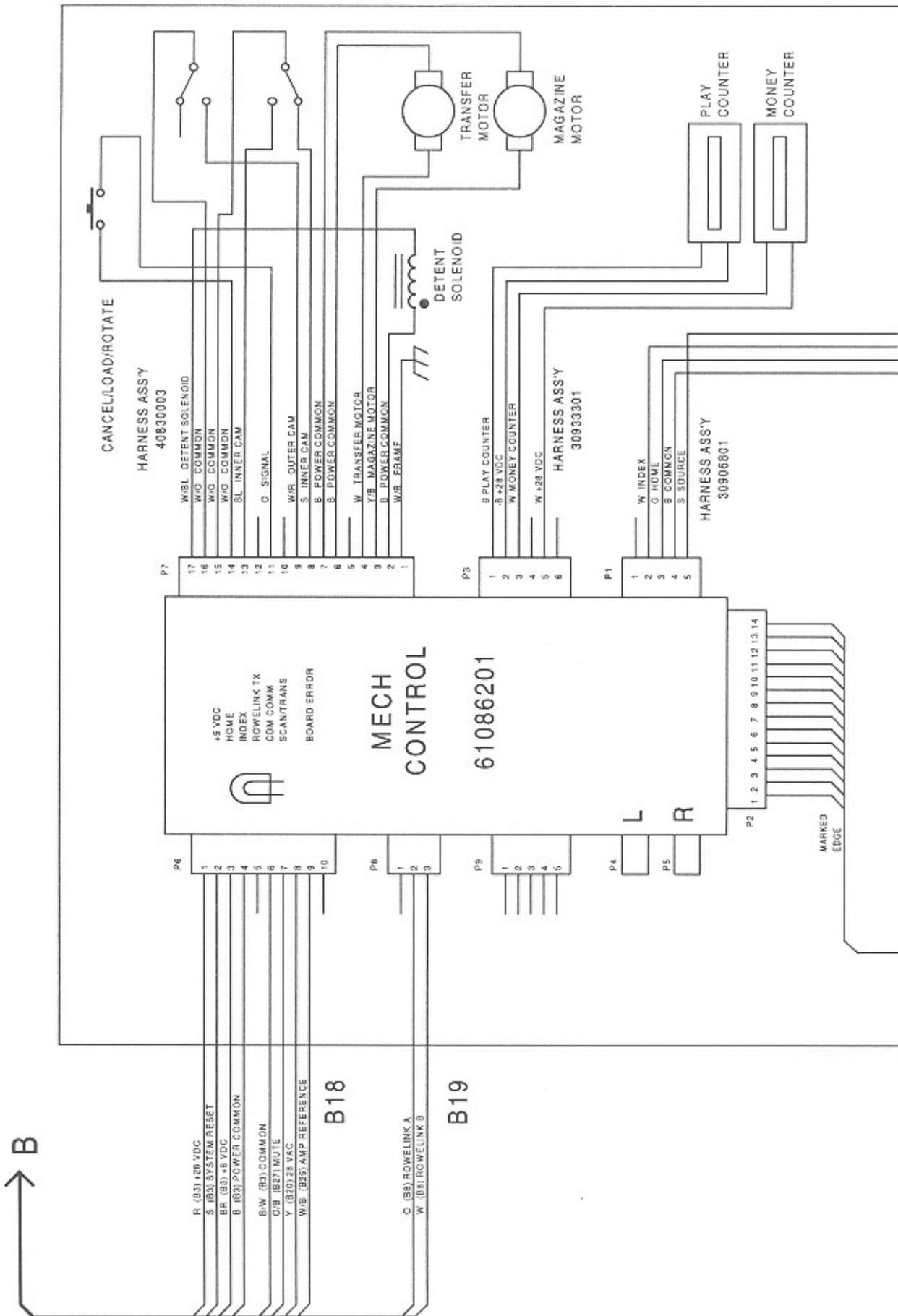
For Example: If you need to be sure that Key 5 is working, find Key 5 in table 5-3. This matrix entry indicates that, when Strobe 3 is active and Key 5 is pressed, Return 1 becomes active.

Not all of the strobes and returns operate in this matrix mode; Returns 4 through 7 and Strobes 7 through 15 have unique functions, which are listed in the table.

Table 5-4. CD-100F CCC I/O Matrix

Outputs		Inputs							
Strobes	Dedicated	Returns				Dedicated			
		0	1	2	3	4	5	6	7
0		5¢ Coin Switch	10¢ Coin Switch	25¢ Coin Switch	50¢ Coin Switch	Cancel Switch	Display Attention	Service Switch	Low Battery Det.
1		Title Disp. Limit	Title Disp. Index	Reserved	UK Defaults				
2		Key 0	Key 1	Key 2	Key 3				
3		Key 4	Key 5	Key 6	Key 7				
4		Key 8	Key 9	Remote Credit Button	Audit Report Start Button				
5		POPULAR	RESET	OUT	IN				
	6	Singalong/Karaoke							
	7	Background music active							
	8	Display Reset - Controls hardware reset on the display driver chip							
	9	Sends speed info to motor chip							
	10	Sends motor info to motor chip							
	11	Mute							
	12	ROWELINK Tx/Rx Select							
	13	SYSTEM ERROR LED							
	14	BOARD ERROR LED							
	15	Watchdog Strobe							

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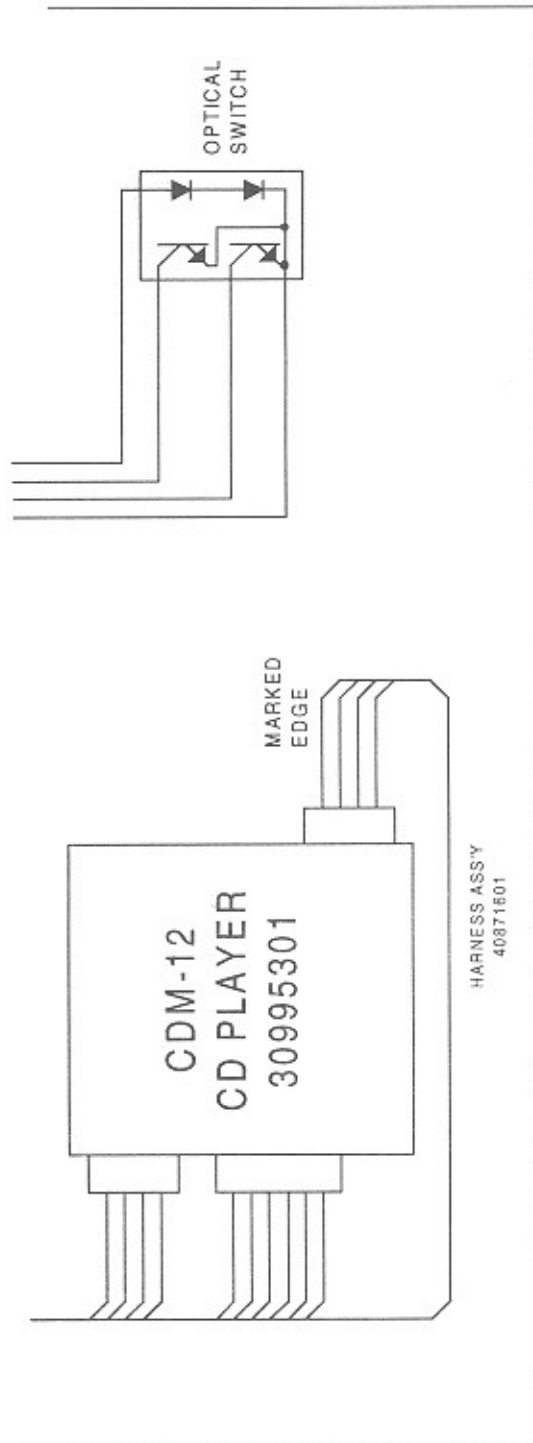
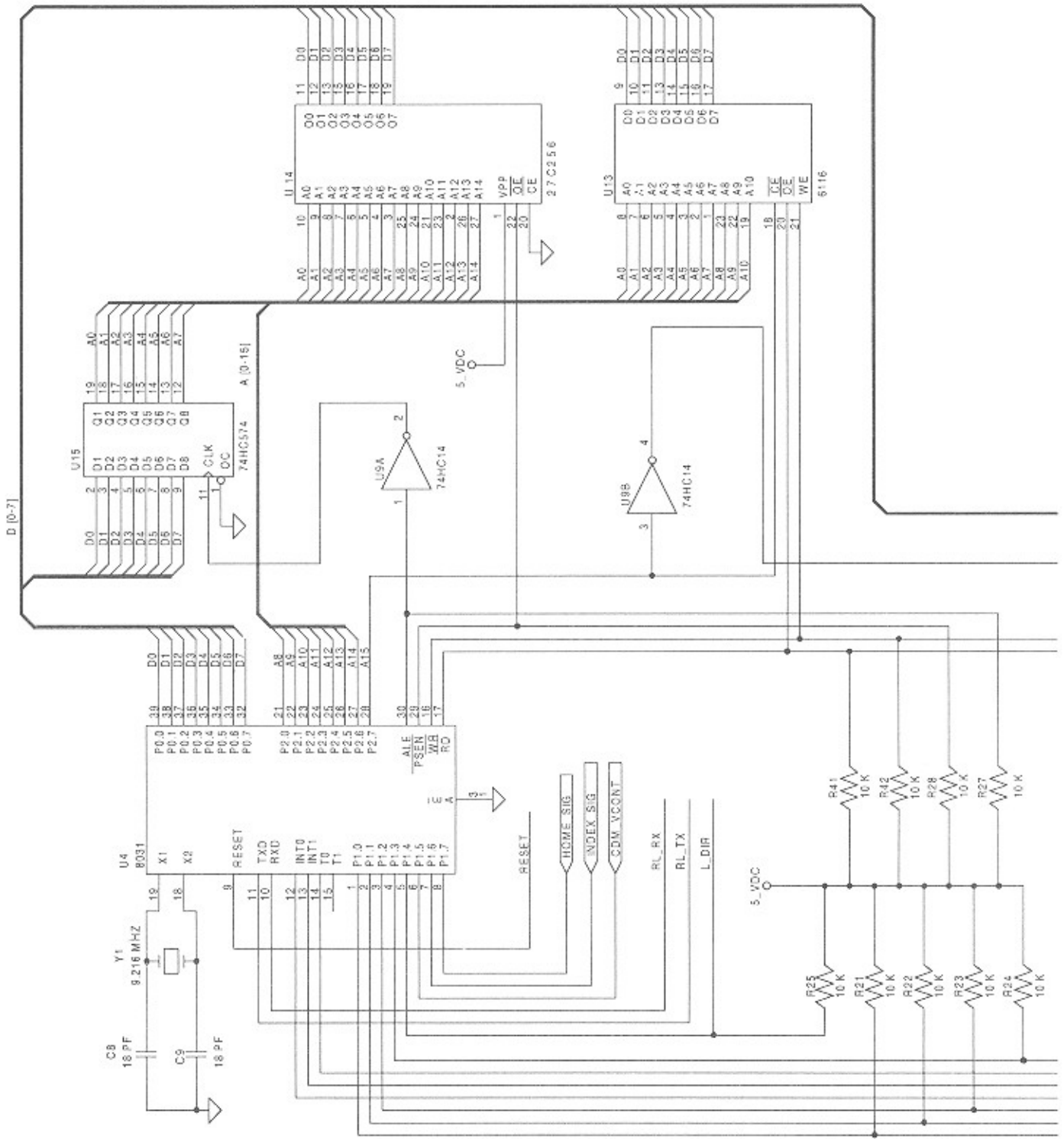
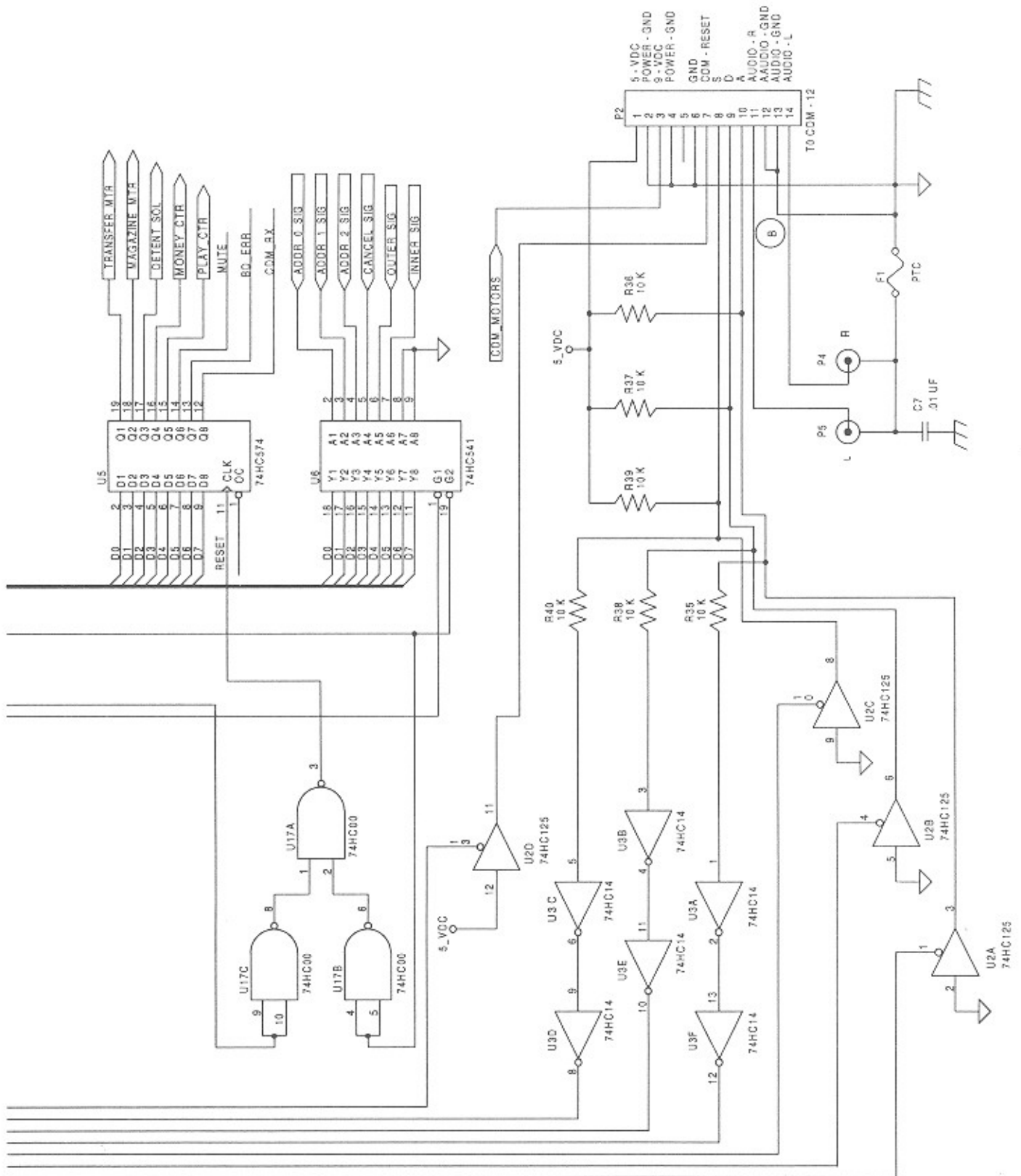
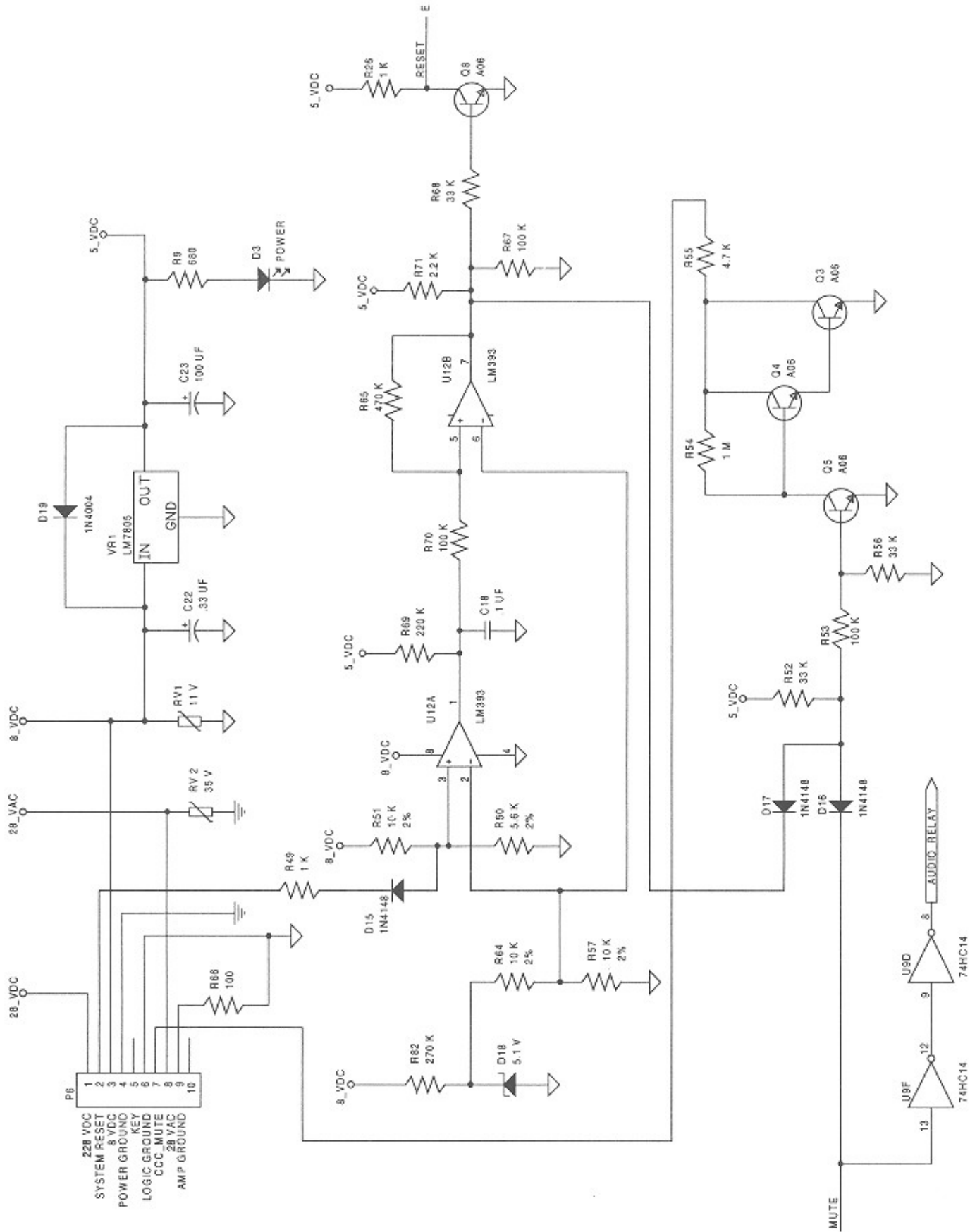


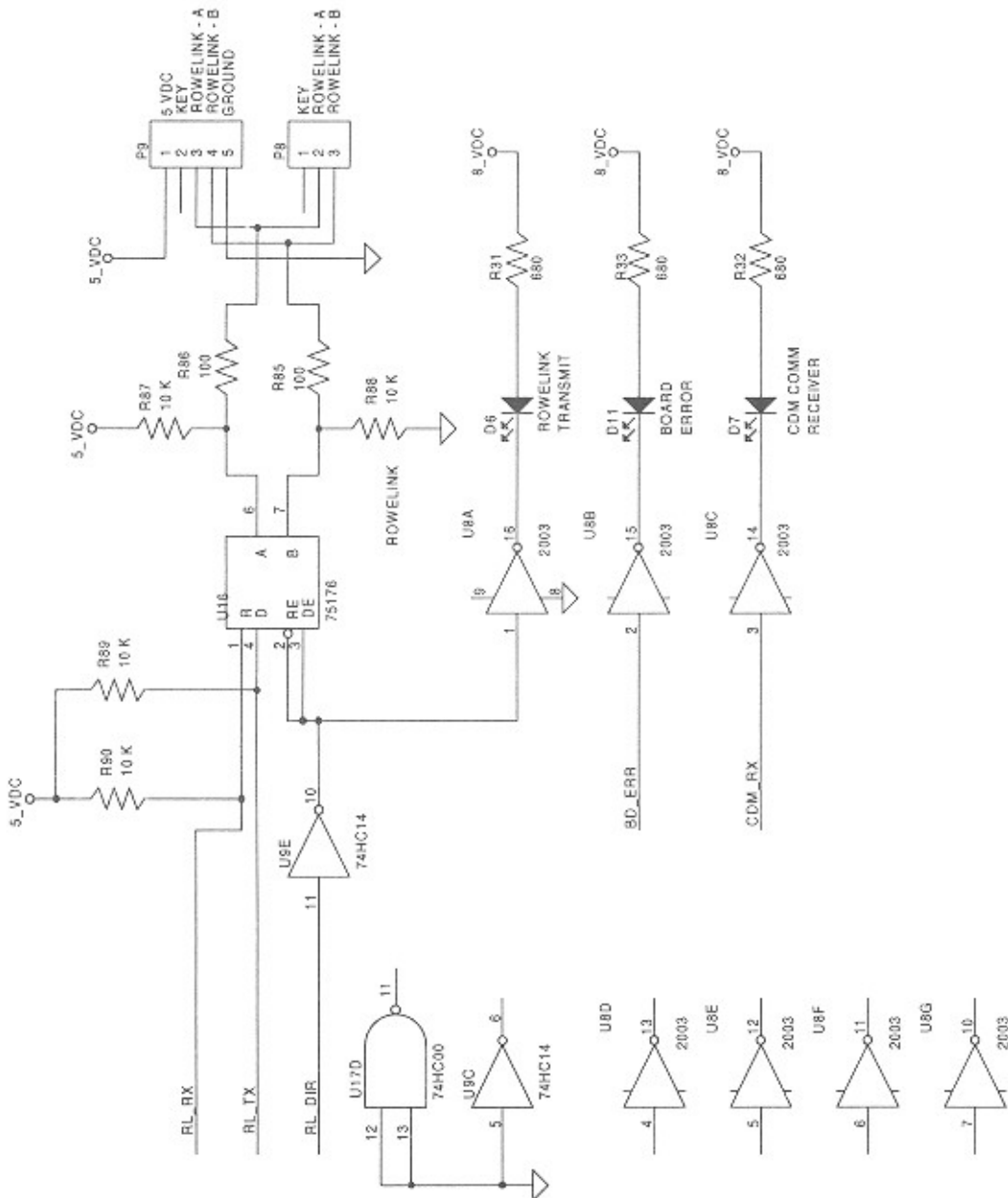
Figure 5-15A. Mechanism Control Assembly Block Diagram



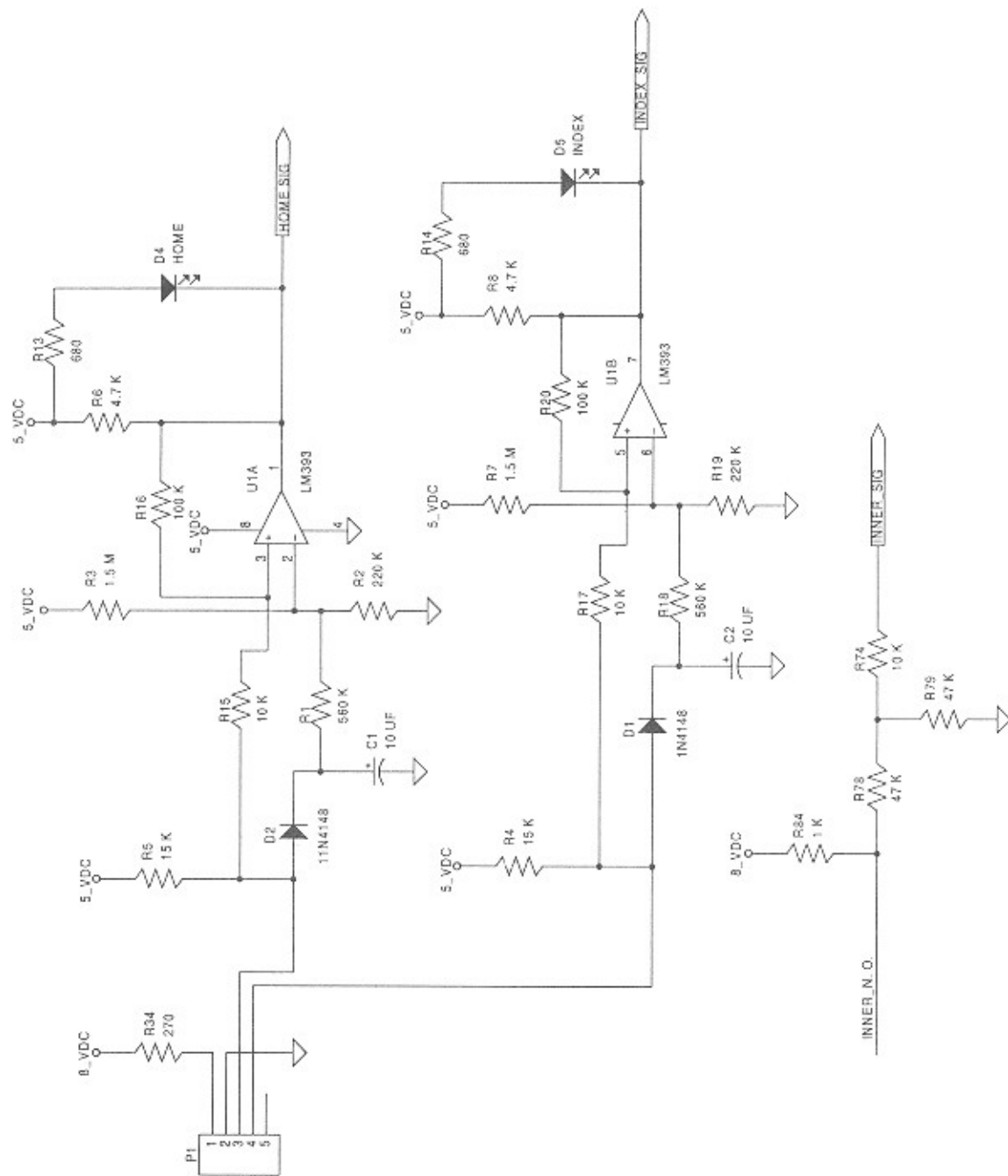


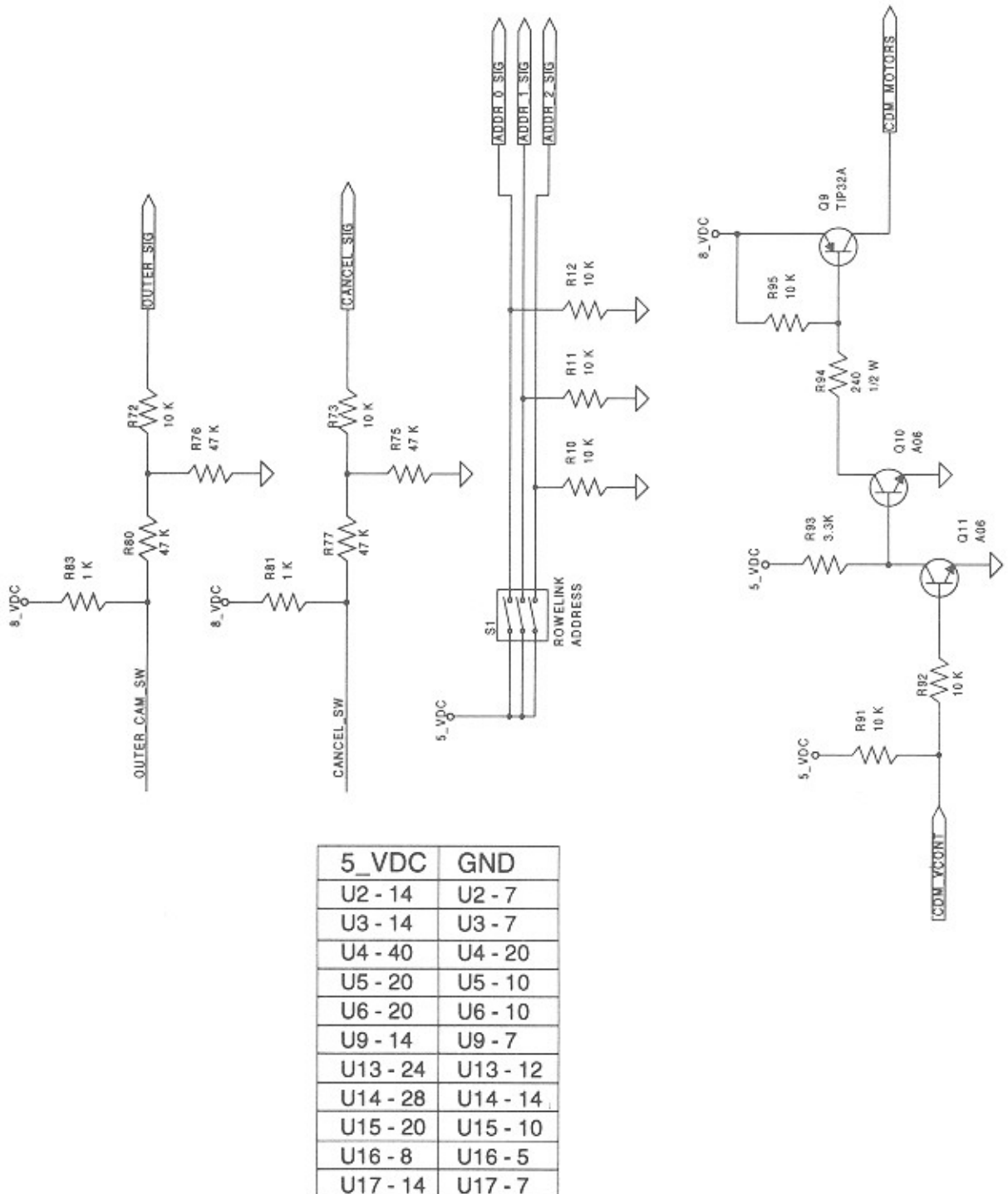
For Equivalent Engineering Drawing See 61085801-Q2
Figure 5-15B. Mechanism Control Assembly Schematic, Sheet 1



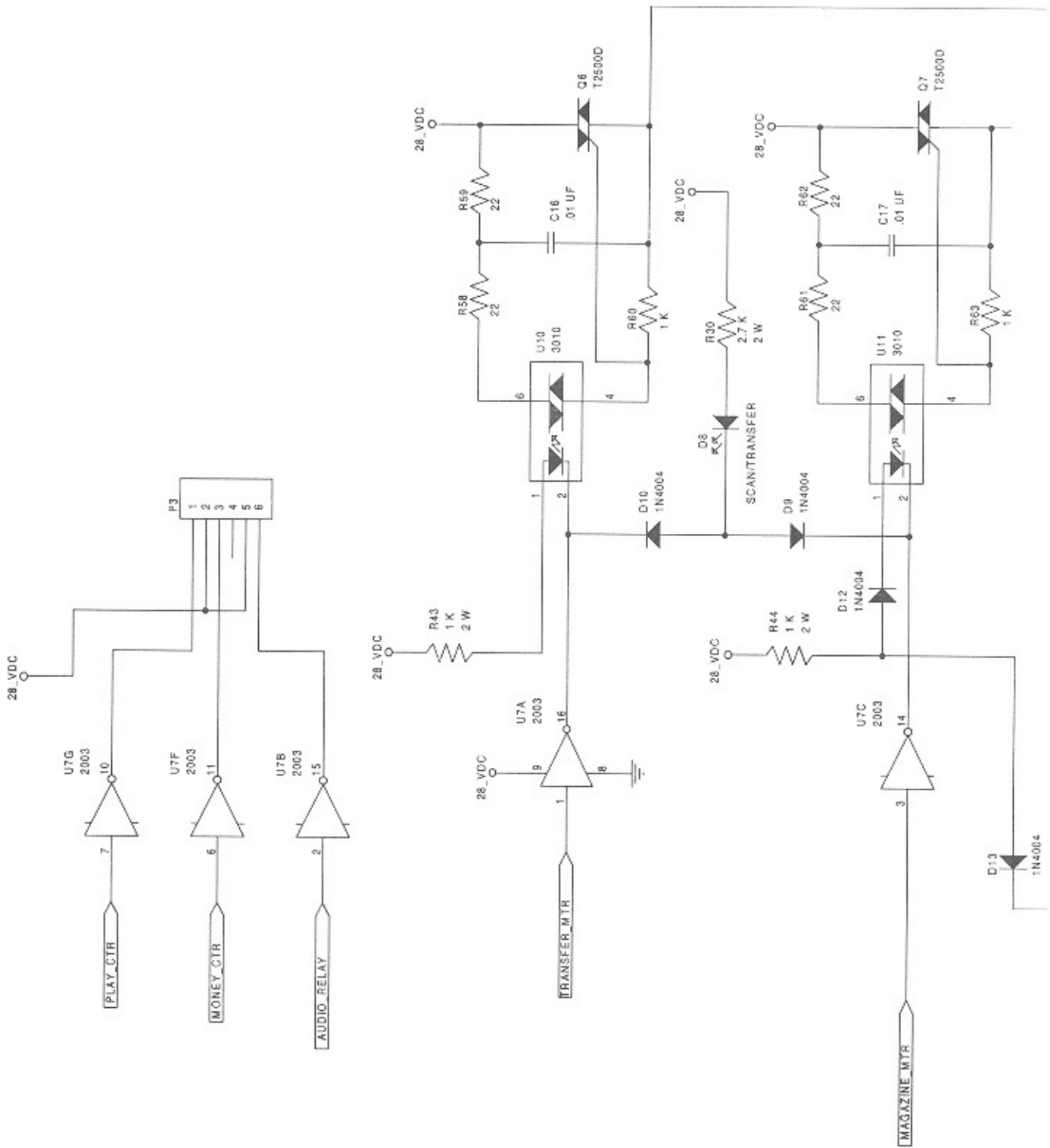


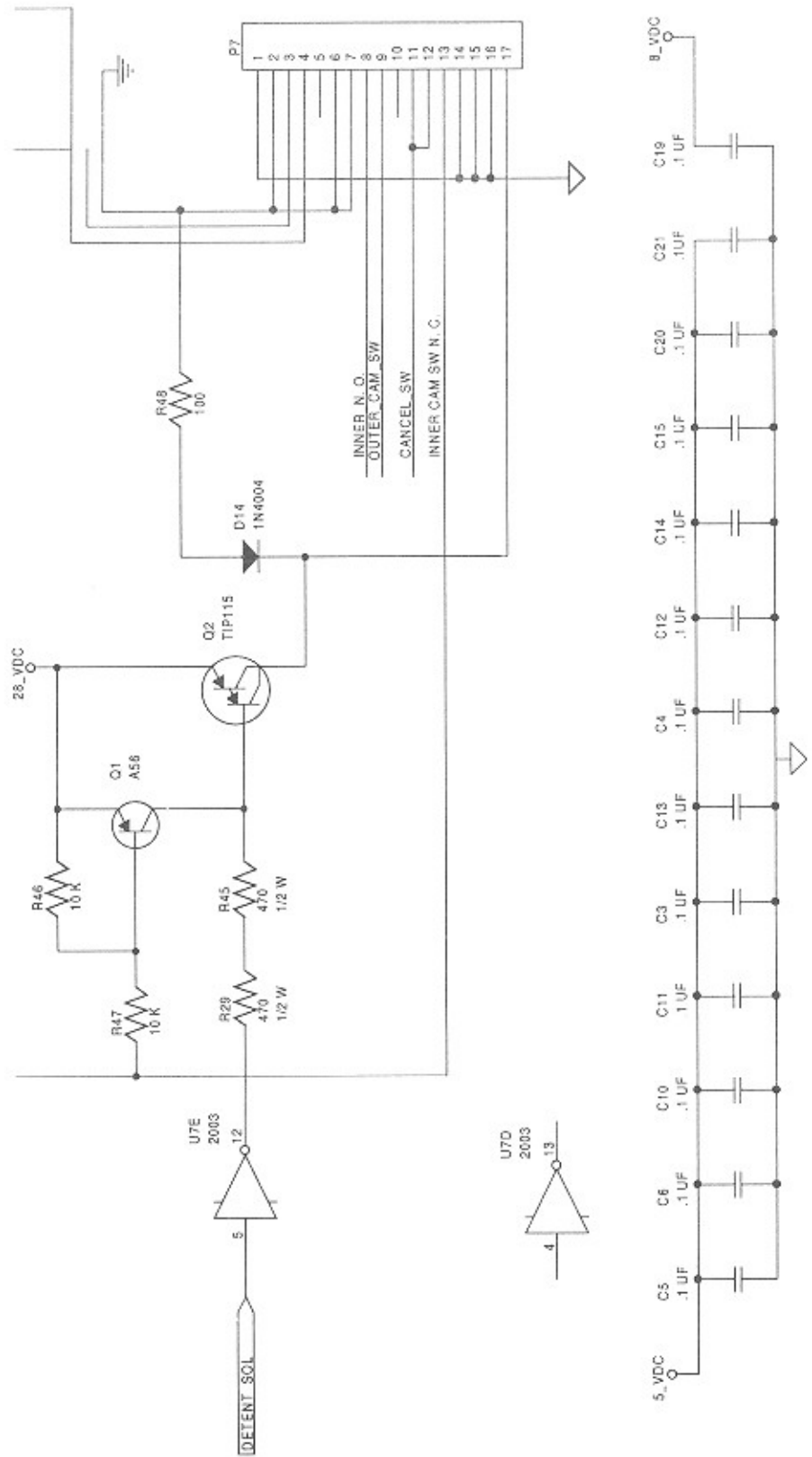
For Equivalent Engineering Drawing See 61085801-Q2
Figure 5-15B. Mechanism Control Assembly Schematic, Sheet 2





For Equivalent Engineering Drawing See 61085801-Q2
Figure 5-15B. Mechanism Control Assembly Schematic, Sheet 3





For Equivalent Engineering Drawing See 61085801-Q2
Figure 5-15B. Mechanism Control Assembly Schematic, Sheet 4

Table 5-5. CD-100F Mech. Controller C.C.C. IC Power and Common Pin Chart

Ref.	Generic Part #	Power		Common	
		+5 VDC	+28 VDC	Logic	Power
U1	ULN2003	—	9	8	—
U2	LM3302	—	—	—	—
U3	74HCT151	16	—	8	—
U4	74HCT151	16	—	8	—
U5	74HCT373	14	—	7	—
U6	63A03R	7	—	1	—
U7	27256	28	—	14	—
U8	74HCT04	20	—	10	—
U9	74HCT00	14	—	7	—
U10	74HCT04	14	—	7	—
U11	62564	28	—	14	—
U12	74HCT138	16	—	8	—
U13	74HCT00	14	—	7	—
U14	74HCT04	14	—	7	—
U15	88C168	28	—	14	—
U16	74LS374	20	—	10	—
U17	ULN2003	—	—	8	—

For Equivalent Engineering Drawing See 61085801-Q2

COMPONENT LIST FOR MECHANISM CONTROL BOARD (61085801)

C1	Capacitor - Electrolytic 50 VDC 20%	10 μ F	70028105
C2	Capacitor - Electrolytic 50 VDC 20%	10 μ F	70028105
C3	Capacitor - Monolythic Ceramic	.1 μ F	70028511
C4	Capacitor - Monolythic Ceramic	.1 μ F	70028511
C5	Capacitor - Monolythic Ceramic	.1 μ F	70028511
C6	Capacitor - Monolythic Ceramic	.1 μ F	70028511
C7	Capacitor - Ceramic Disc 1 KV 20%	.01 μ F	70022508
C8	Capacitor - Monolythic Ceramic 20%	18 pF	70028704
C9	Capacitor - Monolythic Ceramic 10%	18 pF	70028704
C10	Capacitor - Monolythic Ceramic	.1 μ F	70028511
C11	Capacitor - Monolythic Ceramic	.1 μ F	70028511
C12	Capacitor - Monolythic Ceramic	.1 μ F	70028511
C13	Capacitor - Monolythic Ceramic	.1 μ F	70028511
C14	Capacitor - Monolythic Ceramic	.1 μ F	70028511
C15	Capacitor - Monolythic Ceramic	.1 μ F	70028511
C16	Capacitor - Ceramic Disc 1 KV 20%	.01 μ F	70022508
C17	Capacitor - Ceramic Disc 1 KV 20%	.01 μ F	70022508
C18	Capacitor - Monolythic Ceramic	.1 μ F	70028511
C19	Capacitor - Monolythic Ceramic	.1 μ F	70028511
C20	Capacitor - Monolythic Ceramic	.1 μ F	70028511
C21	Capacitor - Monolythic Ceramic	.1 μ F	70028511
C22	Capacitor - Tantalum 35 VDC 20%	.33 μ F	70025119
C23	Capacitor - Electrolytic 16 VDC 20%	100 μ F	70028111
D1	Diode - Silicon	1N4148	70035021
D2	Diode - Silicon	1N4148	70035021
D3	Diode - Light Emitting 90 Degree		70035201
D4	Diode - Light Emitting 90 Degree		70035201
D5	Diode - Light Emitting 90 Degree		70035201
D6	Diode - Light Emitting 90 Degree		70035201
D7	Diode - Light Emitting 90 Degree		70035201
D8	Diode - Light Emitting 90 Degree		70035201
D9	Diode - Silicon	1N4004	70035005
D10	Diode - Silicon	1N4004	70035005
D11	Diode - Light Emitting 90 Degree		70035201
D12	Diode - Silicon	1N4004	70035005
D13	Diode - Silicon	1N4004	70035005
D14	Diode - Silicon	1N4004	70035005
D15	Diode - Silicon	1N4148	70035012
D16	Diode - Silicon	1N4148	70035012
D17	Diode - Silicon	1N4148	70035012
D18	Diode - Zener 5.1 V 1/2W 5%	1N5231B	70035526
D19	Diode - Silicon	1N4004	70035005
F1	Fuse - P.T.C.		70072504
P1	Header - Polarized .156 5 Position		70075005
P2	Header - Right Angle 2mm 14 Position		70088914
P3	Header - Polarized .156 6 Position		70075006
P4	Phono Jack		21540902
P5	Phono Jack		21540902
P6	Header - Polarized .156 10 Position		70075010
P7	Header - Polarized .156 17 Position		70075017
P8	Header - Polarized .156 3 Position		70075003
P9	Header - Polarized .156 5 Position		70075005

COMPONENT LIST FOR MECHANISM CONTROL BOARD (61085801)

(Continued)

Q1	Transistor - Silicon PNP	MPSA56	70030104
Q2	Transistor - Silicon Darlington	TIP115	70030805
Q3	Transistor - Silicon NPN	MPSA06	70030008
Q4	Transistor - Silicon NPN	MPSA06	70038008
Q5	Transistor - Silicon NPN	MPSA06	70038008
Q6	Thyristor Triac	T2500D	70038102
Q7	Thyristor Triac	T2500D	70038102
Q8	Transistor - Silicon NPN	MPSA06	70030008
Q9	Transistor - Silicon PNP	TIP32A	70030401
Q10	Transistor - Silicon NPN	MPSA06	70030008
Q11	Transistor - Silicon NPN	MPSA06	70030008

NOTE: All resistors are 1/4 watt 5% unless otherwise indicated.

R1	Resistor - Carbon Film (1/8W 5%)	560 K Ω	79905564
R2	Resistor - Carbon Film (1/8W 5%)	220 K Ω	79905224
R3	Resistor - Carbon Film (1/8W 5%)	1.5 M Ω	79901155
R4	Resistor - Carbon Film (1/8W 5%)	15 K Ω	79905153
R5	Resistor - Carbon Film (1/8W 5%)	15 K Ω	79905153
R6	Resistor - Carbon Film (1/8W 5%)	4.7 K Ω	79905472
R7	Resistor - Carbon Film (1/8W 5%)	1.5 M Ω	79901155
R8	Resistor - Carbon Film (1/8W 5%)	4.7 K Ω	79905472
R9	Resistor - Carbon Film (1/8W 5%)	680 Ω	79905681
R10	Resistor - Carbon Film (1/8W 5%)	680 Ω	79905103
R11	Resistor - Carbon Film (1/8W 5%)	10 K Ω	79905103
R12	Resistor - Carbon Film (1/8W 5%)	10 K Ω	79905103
R13	Resistor - Carbon Film (1/8W 5%)	680 Ω	79905681
R14	Resistor - Carbon Film (1/8W 5%)	680 Ω	79905681
R15	Resistor - Carbon Film (1/8W 5%)	10 K Ω	79905103
R16	Resistor - Carbon Film (1/8W 5%)	100 K Ω	79905104
R17	Resistor - Carbon Film (1/8W 5%)	10 K Ω	79905103
R18	Resistor - Carbon Film (1/8W 5%)	560 K Ω	79905564
R19	Resistor - Carbon Film (1/8W 5%)	220 K Ω	79905224
R20	Resistor - Carbon Film (1/8W 5%)	100 K Ω	79905104
R21	Resistor - Carbon Film (1/8W 5%)	10 K Ω	79905103
R22	Resistor - Carbon Film (1/8W 5%)	10 Ω	79905103
R23	Resistor - Carbon Film (1/8W 5%)	10 Ω	79905103
R24	Resistor - Carbon Film (1/8W 5%)	10 Ω	79905103
R25	Resistor - Carbon Film	10 Ω	79905103
R26	Resistor - Carbon Film	1 Ω	79905102
R27	Resistor - Carbon Film	10 Ω	79905103
R28	Resistor - Carbon Film	10 Ω	79905103
R29	Resistor - Metal Film (1/2W 5%)	470 Ω	79904471
R30	Resistor - Wirewound (2W 10%)	2.7 K Ω	79920272
R31	Resistor - Carbon Film	680 Ω	79901681
R32	Resistor - Carbon Film	680 Ω	79901681
R33	Resistor - Carbon Film	680 Ω	79901681
R34	Resistor - Carbon Film	270 Ω	79901271
R35	Resistor - Carbon Film (1/8W 5%)	10 K Ω	79905103
R36	Resistor - Carbon Film (1/8W 5%)	10 K Ω	79905103
R37	Resistor - Carbon Film (1/8W 5%)	10 M Ω	79905103
R38	Resistor - Carbon Film (1/8W 5%)	10 K Ω	79905103
R39	Resistor - Carbon Film (1/8W 5%)	10 K Ω	79905103
R40	Resistor - Carbon Film (1/8W 5%)	10 K Ω	79905103
R41	Resistor - Carbon Film (1/8W 5%)	10 K Ω	79905103
R42	Resistor - Carbon Film (1/8W 5%)	10 K Ω	79905103
R43	Resistor - Wirewound (2W 10%)	1 K Ω	79920102

R44	Resistor - Wirewound (2W 10%)	1 K Ω	79920102
R45	Resistor - Metal Film (1/2W 5%)	470 Ω	79904471
R46	Resistor - Carbon Film (1/8W 5%)	10 K Ω	79905103
R47	Resistor - Carbon Film	10 K Ω	79901103
R48	Resistor - Carbon Film	100 Ω	79901101
R49	Resistor - Carbon Film (1/8W 5%)	1 Ω	79905102
R50	Resistor - Carbon Film (1/4W 2%)	5.6 K Ω	79902562
R51	Resistor - Carbon Film (1/4W 2%)	10 K Ω	79902103
R52	Resistor - Carbon Film (1/8W 5%)	33 K Ω	79905333
R53	Resistor - Carbon Film (1/8W 5%)	100 K Ω	79905104
R54	Resistor - Carbon Film (1/8W 5%)	1 M Ω	79905105
R55	Resistor - Carbon Film (1/8W 5%)	4.7 K Ω	79905472
R56	Resistor - Carbon Film (1/8W 5%)	33 K Ω	79905333
R57	Resistor - Carbon Film (1/4W 2%)	10 K Ω	79902103
R58	Resistor - Carbon Film	22 Ω	79901220
R59	Resistor - Carbon Film	22 Ω	79901220
R60	Resistor - Carbon Film	1 K Ω	79901102
R61	Resistor - Carbon Film	22 Ω	79901220
R62	Resistor - Carbon Film	22 Ω	79901220
R63	Resistor - Carbon Film	1 K Ω	79901102
R64	Resistor - Carbon Film	10 K Ω	79902103
R65	Resistor - Carbon Film (1/8W 5%)	470 K Ω	79905474
R66	Resistor - Carbon Film	100 Ω	79901101
R67	Resistor - Carbon Film (1/8W 5%)	100 K Ω	79905104
R68	Resistor - Carbon Film (1/8W 5%)	33 K Ω	79905333
R69	Resistor - Carbon Film (1/8W 5%)	220 K Ω	79905224
R70	Resistor - Carbon Film (1/8W 5%)	100 K Ω	79905104
R71	Resistor - Carbon Film (1/8W 5%)	2.2 K Ω	79905222
R72	Resistor - Carbon Film (1/8W 5%)	10 K Ω	79905103
R73	Resistor - Carbon Film (1/8W 5%)	10 K Ω	79905103
R74	Resistor - Carbon Film (1/8W 5%)	10 K Ω	79905103
R75	Resistor - Carbon Film (1/8W 5%)	47 K Ω	79905473
R76	Resistor - Carbon Film (1/8W 5%)	47 K Ω	79905473
R77	Resistor - Carbon Film (1/8W 5%)	47 K Ω	79905473
R78	Resistor - Carbon Film (1/8W 5%)	47 K Ω	79905473
R79	Resistor - Carbon Film (1/8W 5%)	47 K Ω	79905473
R80	Resistor - Carbon Film (1/8W 5%)	47 K Ω	79905473
R81	Resistor - Carbon Film	1 K Ω	79901102
R82	Resistor - Carbon Film	270 Ω	79901271
R83	Resistor - Carbon Film	1 K Ω	79901102
R84	Resistor - Carbon Film	1 K Ω	79901102
R85	Resistor - Carbon Film	100 Ω	79901101
R86	Resistor - Carbon Film	100 Ω	79901101
R87	Resistor - Carbon Film (1/8W 5%)	10 K Ω	79905103
R88	Resistor - Carbon Film (1/8W 5%)	10 K Ω	79905103
R89	Resistor - Carbon Film (1/8W 5%)	10 K Ω	79905103
R90	Resistor - Carbon Film (1/8W 5%)	10 K Ω	79905103
R91	Resistor - Carbon Film (1/8W 5%)	10 K Ω	79905103
R92	Resistor - Carbon Film (1/8W 5%)	10 K Ω	79905103
R93	Resistor - Carbon Film (1/8W 5%)	3.3 K Ω	79905332
R94	Resistor - Metal Film (1/2W 5%)	240 Ω	79904241
R95	Resistor - Carbon Film (1/8W 5%)	10 K Ω	79905103
RV1	Metal Oxide Varistor 14 VDC		70037505
RV2	Metal Oxide Varistor 45 VDC		70037506
SI	Not Used		

COMPONENT LIST FOR MECHANISM CONTROL BOARD (61085801)

(Continued)

U1	I.C. - Dual Comparitor	(LM393)	70036802
U2	I.C. - Quad Buffer - Tristate	(74HC125)	79940125
U3	I.C. - Hex Schmitt Trigger Inverter	(74HC14)	79940014
U4	I.C. - Microprocessor	(80C31)	70039402
U5	I.C. - Octal D Latch	(74HC574)	79940574
U6	I.C. - Octal Buffer	(74HC541)	79940541
U7	I.C. - Darlington Array	(ULN2003)	70036901
U8	I.C. - Darlington Array	(ULN2003)	70036901
U9	I.C. - Hex Schmitt Trigger Inverter	(74HC14)	79940014
U10	Photocoupler Opto-Triac	(3010)	70033703
U11	Photocoupler Opto-Triac	(3010)	70033703
U12	I.C. - Dual Comparator	(LM393)	70036802
U13	I.C. - 2K x 8 CMOS RAM	(6116)	79800359
U14	I.C. - 8K x 8 CMOS EPROM Programmed CD Mech Ver 5.3	(27C256)	
U15	I.C. - Octal D Latch	(74HC574)	79940574
U16	I.C. - Transceiver RS-485	(75176)	70037801
U17	I.C. - Quad 2 Input Nand	(74HCOO)	79940000
VR1	I.C. - Voltage Regulator 5V	(LM340T5)	70036506
Y1	Crystal - Quartz 9.216 MHz		25167323

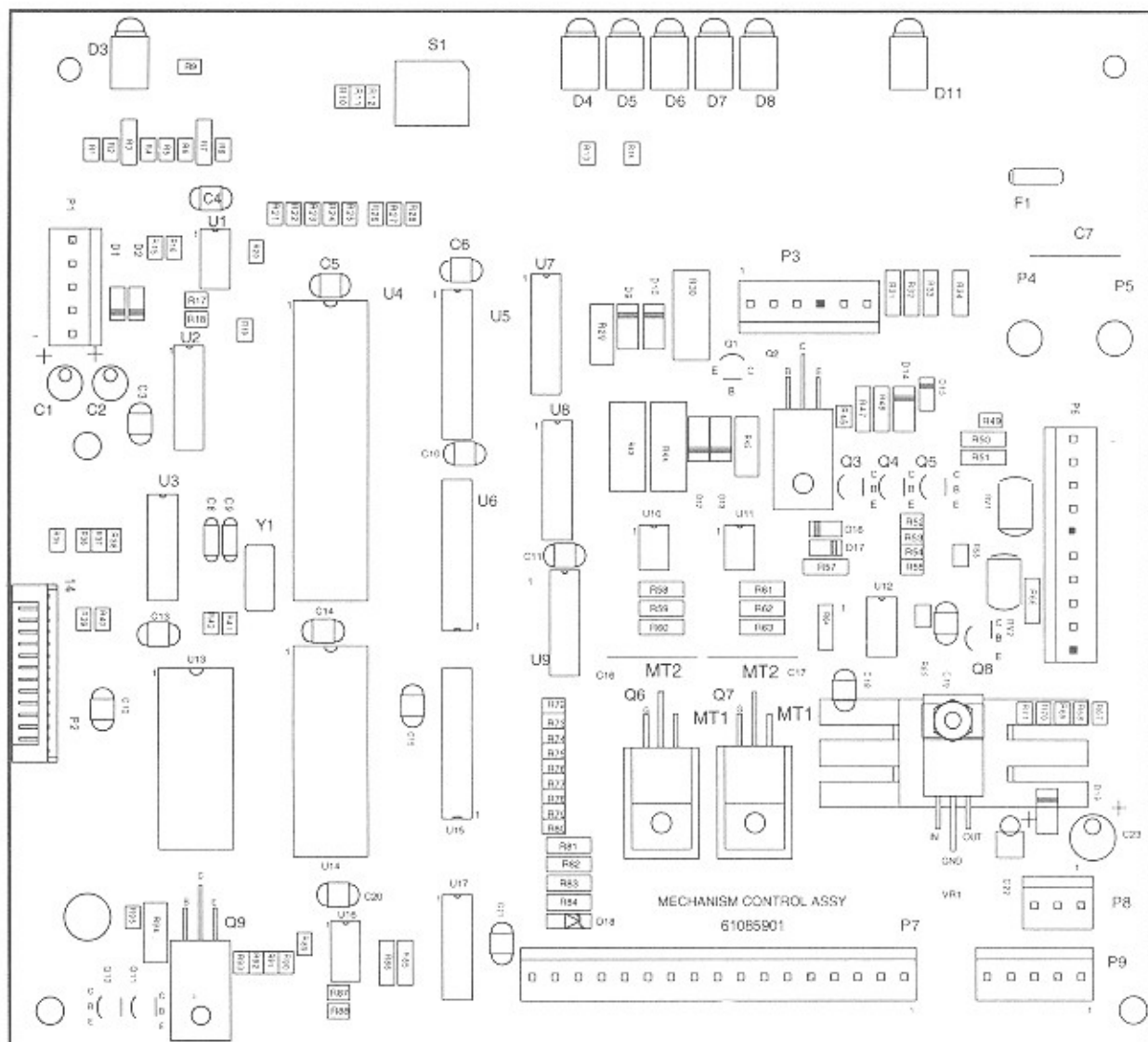
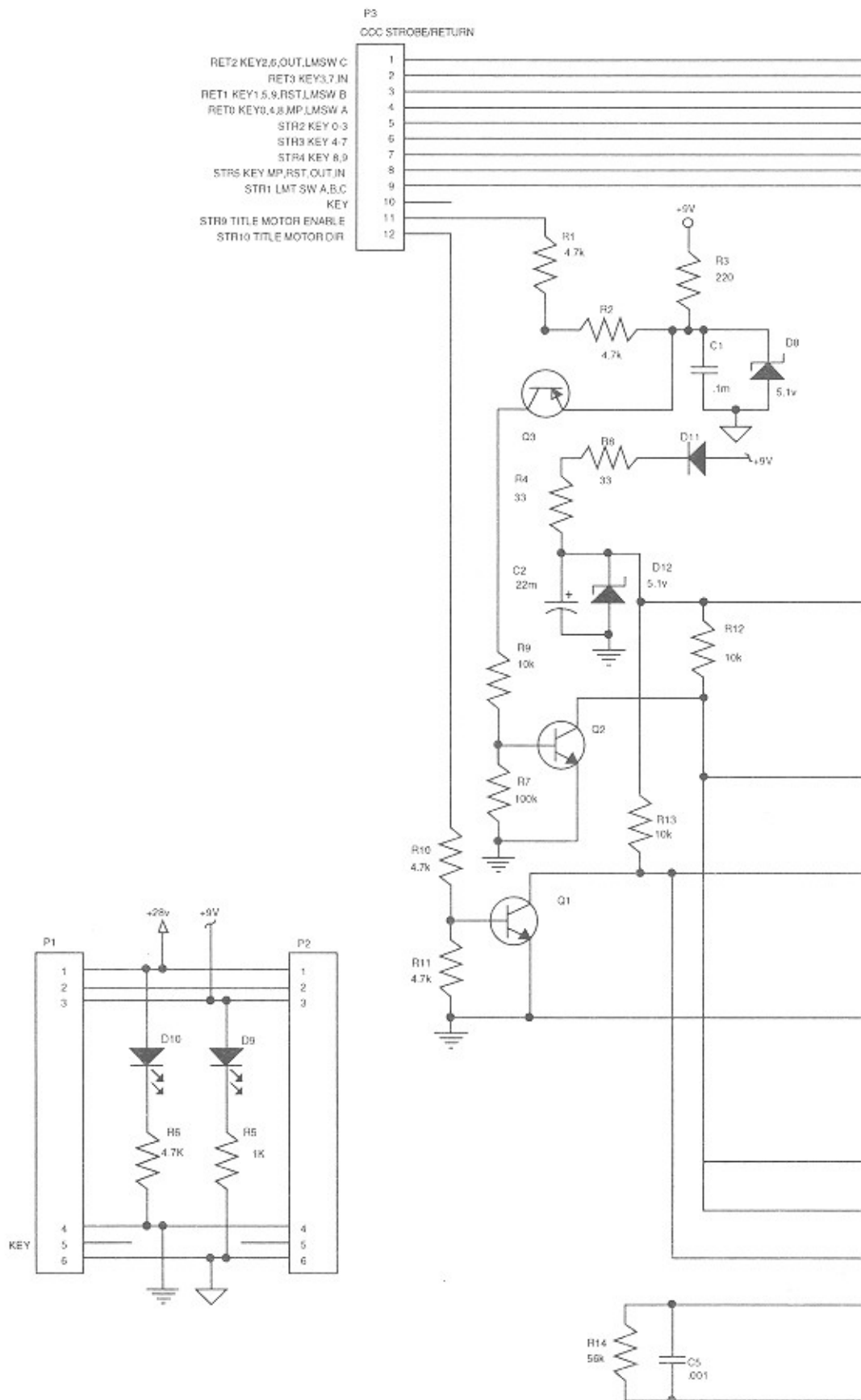
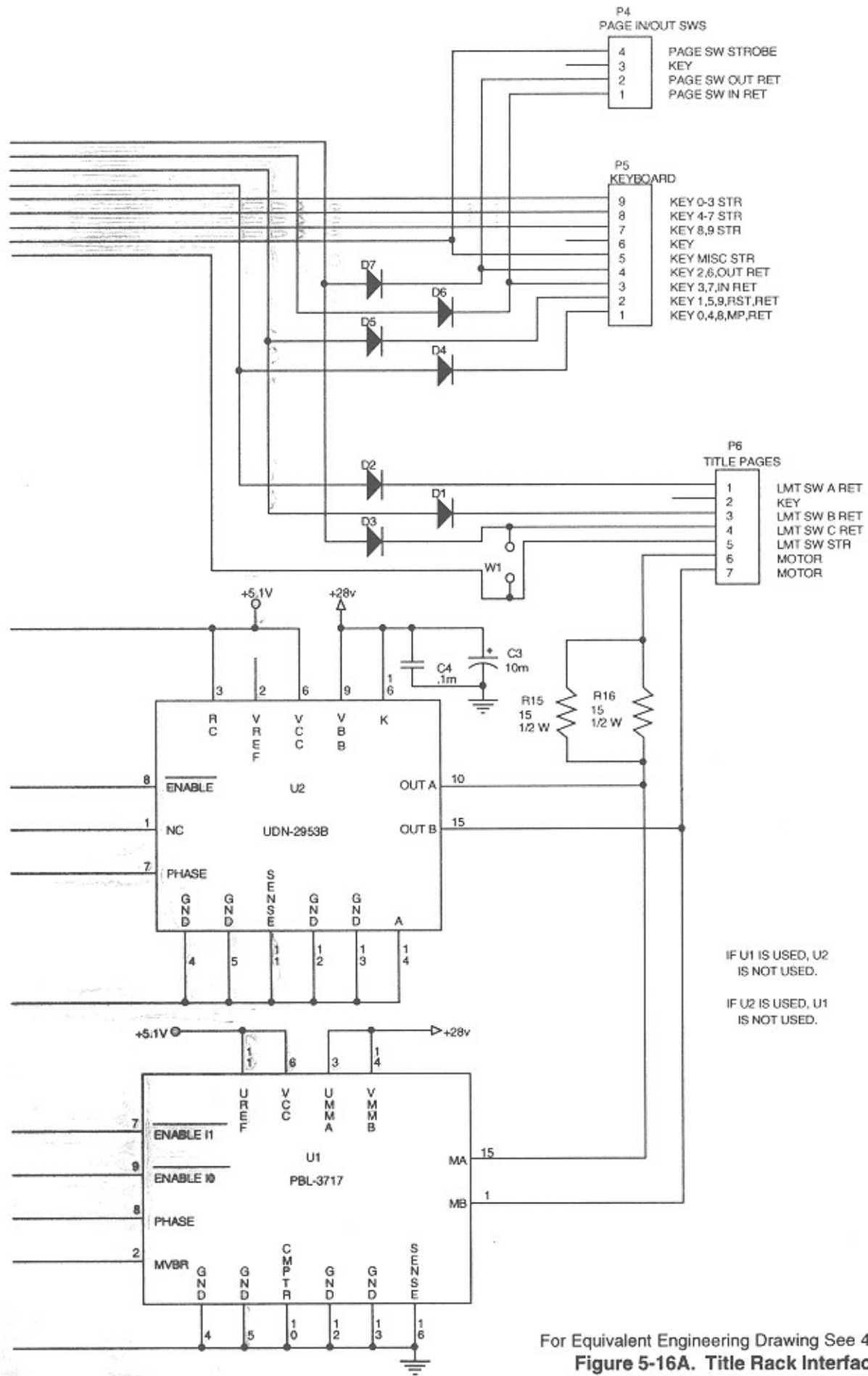


Figure 5-15B. Mechanism Control Assembly Circuit Board Layout 61085801

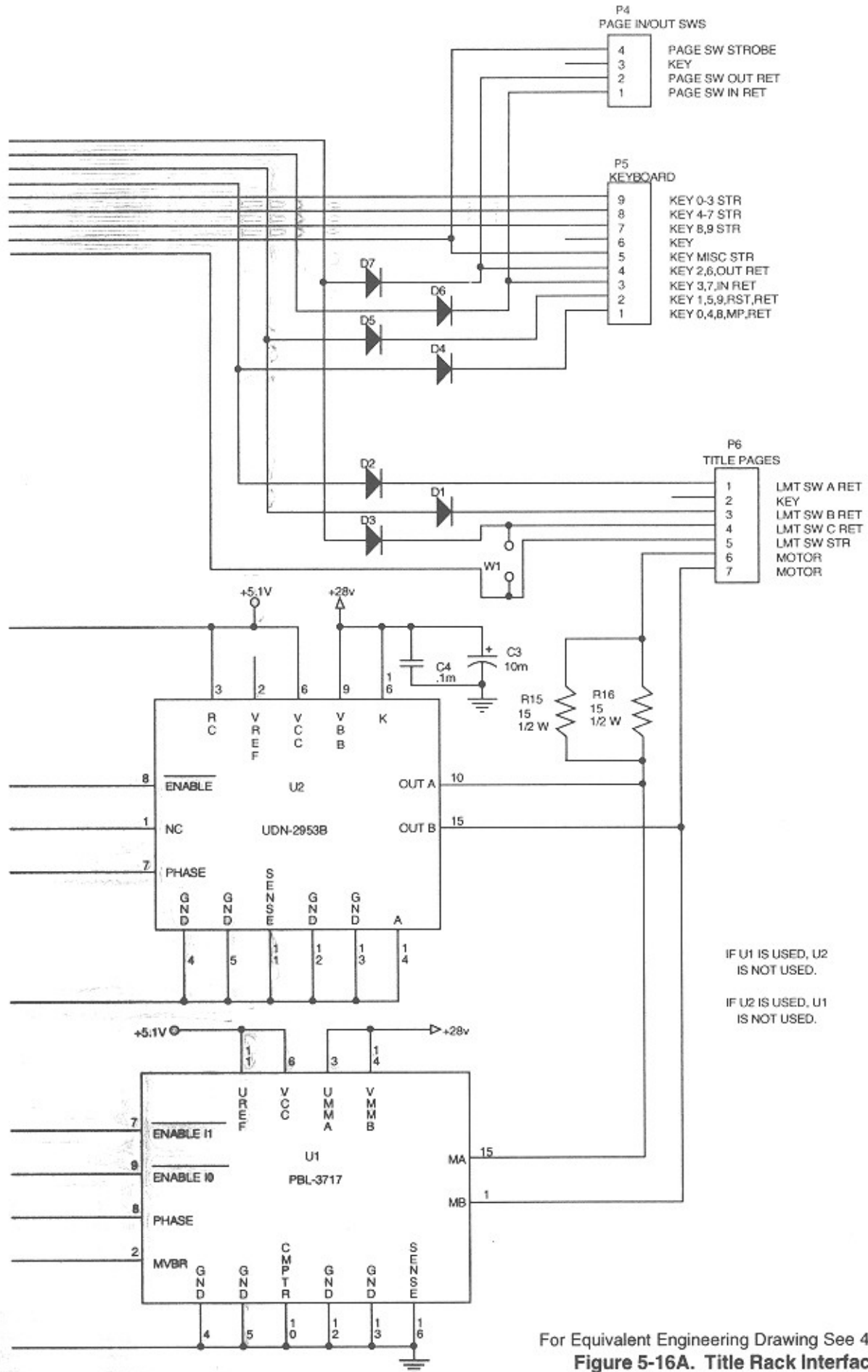




For Equivalent Engineering Drawing See 40853001-Q2 B
Figure 5-16A. Title Rack Interface Schematic

COMPONENT LIST FOR TITLE RACK INTERFACE BOARD (40853001)

C1	Capacitor - Monolythic Ceramic	.1 μ F	70028511
C2	Capacitor - Tantalum 15 VDC 10%	22 μ F	70025104
C3	Capacitor - Electrolytic 50 VDC 20%	10 μ F	70023808
C4	Capacitor - Monolythic Ceramic	.1 μ F	70028511
C5	Capacitor - Monolythic Ceramic	.001 μ F	70028518
D1	Diode - Silicon	1N4004	70035005
D2	Diode - Silicon	1N4004	70035005
D3	Diode - Silicon	1N4004	70035005
D4	Diode - Silicon	1N4004	70035005
D5	Diode - Silicon	1N4004	70035005
D6	Diode - Silicon	1N4004	70035005
D7	Diode - Silicon	1N4004	70035005
D8	Diode - Zener 5.1V 1/2W 5%	1N5231B	70035526
D9	Diode - Light Emitting Red Diffused		70035305
D10	Diode - Light Emitting Red Diffused		70035305
D11	Diode - Silicon	1N4148	70035012
D12	Diode - Zener 5.1V 1/2W 5%	1N5231B	70035526
P1	Header - Polarized .156 6 Position		70075006
P2	Header - Polarized .156 6 Position		70075006
P3	Header - Polarized .156 12 Position		70075012
P4	Header - Polarized .156 4 Position		70075004
P5	Header - Polarized .156 9 Position		70075009
P6	Header - Polarized .156 7 Position		70075007
Q1	Transistor - Silicon NPN	MPSA06	70030008
Q2	Transistor - Silicon NPN	MPSA06	70030008
Q3	Transistor - Silicon PNP	MPSA56	70030104
NOTE: All resistors are 1/4 watt 5% unless otherwise indicated.			
R1	Resistor - Carbon	4.7 K Ω	79901472
R2	Resistor - Carbon	4.7 K Ω	79901472
R3	Resistor - Carbon	220 Ω	79901221
R4	Resistor - Carbon	33 Ω	79901330
R5	Resistor - Carbon	1 K Ω	79901102
R6	Resistor - Carbon	4.7 K Ω	79901472
R7	Resistor - Carbon	100 K Ω	79901104
R8	Resistor - Carbon	33 Ω	79901330
R9	Resistor - Carbon	10 K Ω	79901103
R10	Resistor - Carbon	4.7 K Ω	79901472
R11	Resistor - Carbon	4.7 K Ω	79901472
R12	Resistor - Carbon	10 K Ω	79901103
R13	Resistor - Carbon	10 K Ω	79901103
R14	Resistor - Carbon	56 K Ω	79901563
R15	Resistor - Metal Film (1/2W 5%)	15 Ω	79904150
R16	Resistor - Metal Film (1/2W 5%)	15 Ω	79904150
U1	I.C. - Motor Driver	CS3717A	30800241
U2	I.C. - Motor Driver	UDN-2953B	30800229
W1	NOT USED		



IF U1 IS USED, U2 IS NOT USED.
IF U2 IS USED, U1 IS NOT USED.

For Equivalent Engineering Drawing See 40853001-Q2 B
Figure 5-16A. Title Rack Interface Schematic

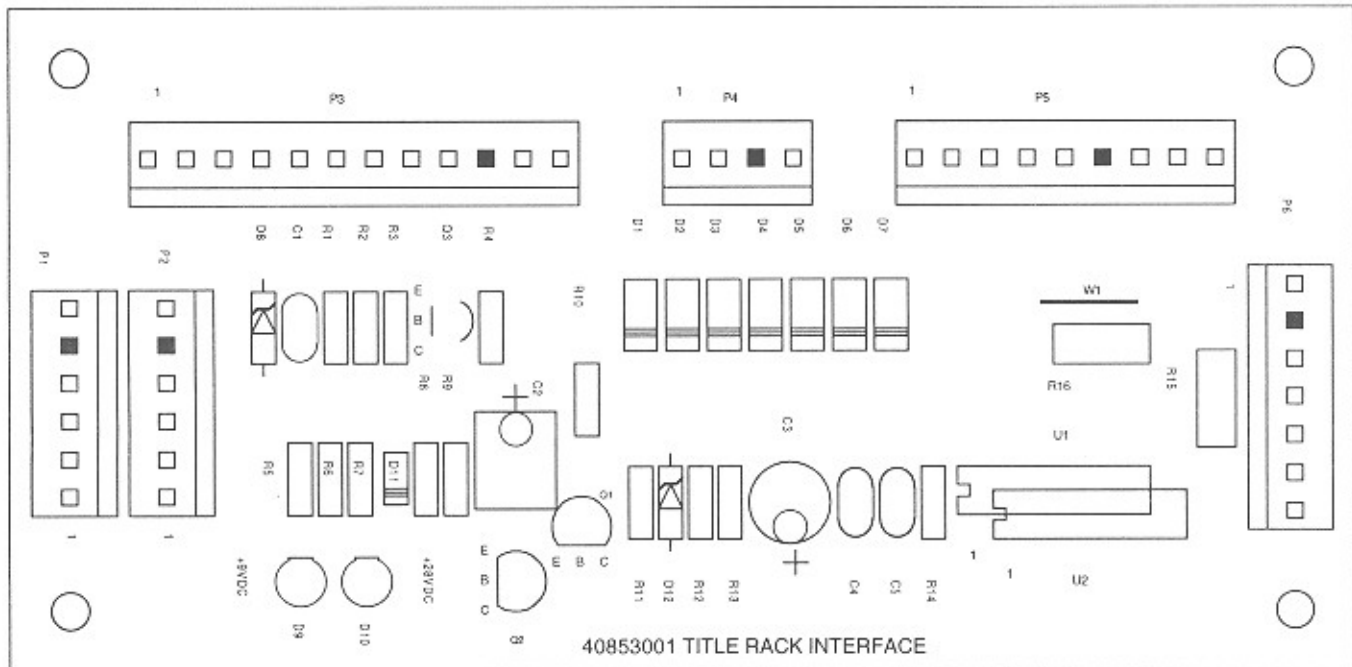


Figure 5-16B. Title Rack Interface Circuit Board Layout 40853001

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