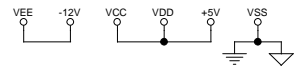
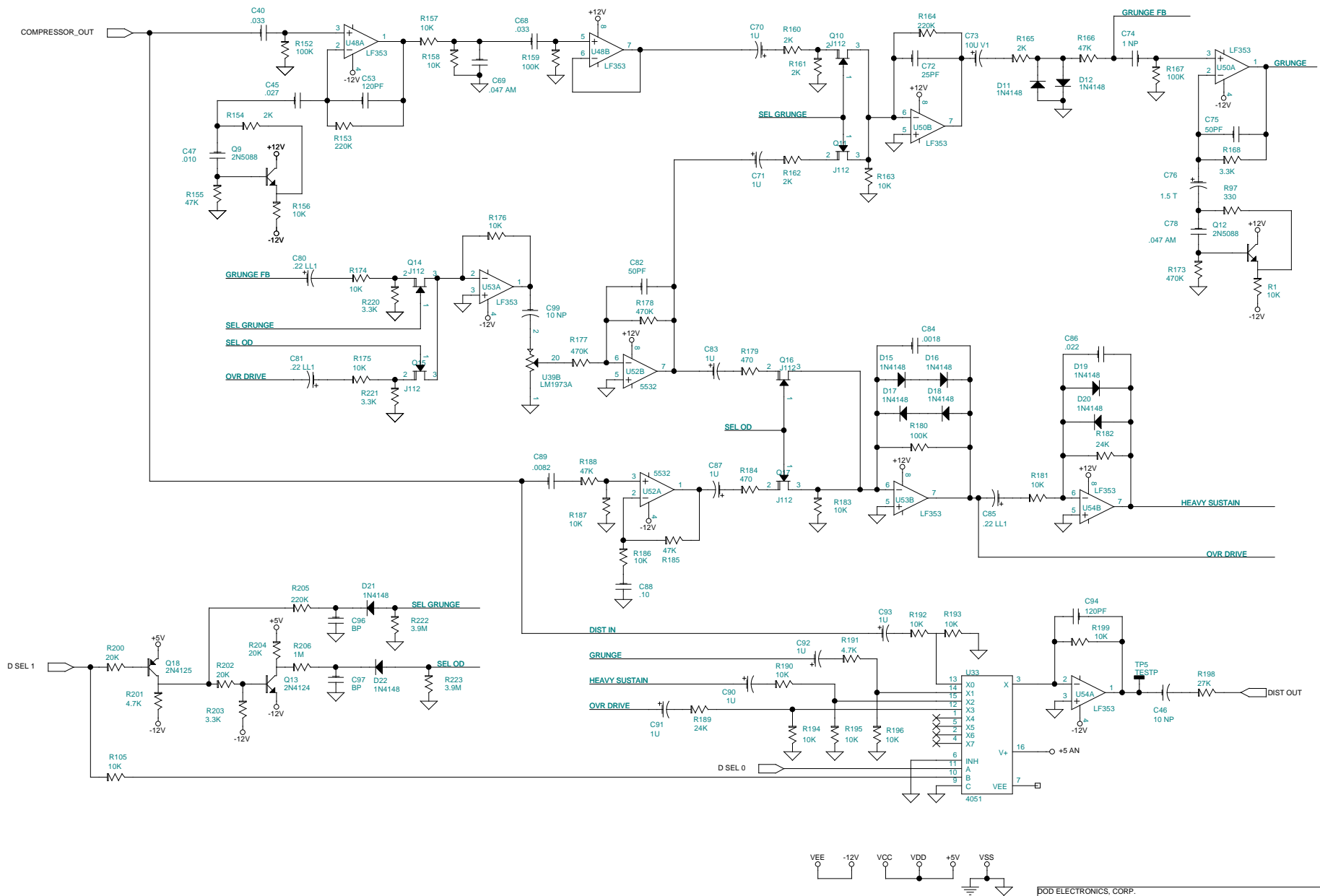


LINK
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 056107A3.003
 056107A3.004
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 056107A3.006

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Title LEGEND II MAIN, INCOMP/DETECTOR 80-6107	
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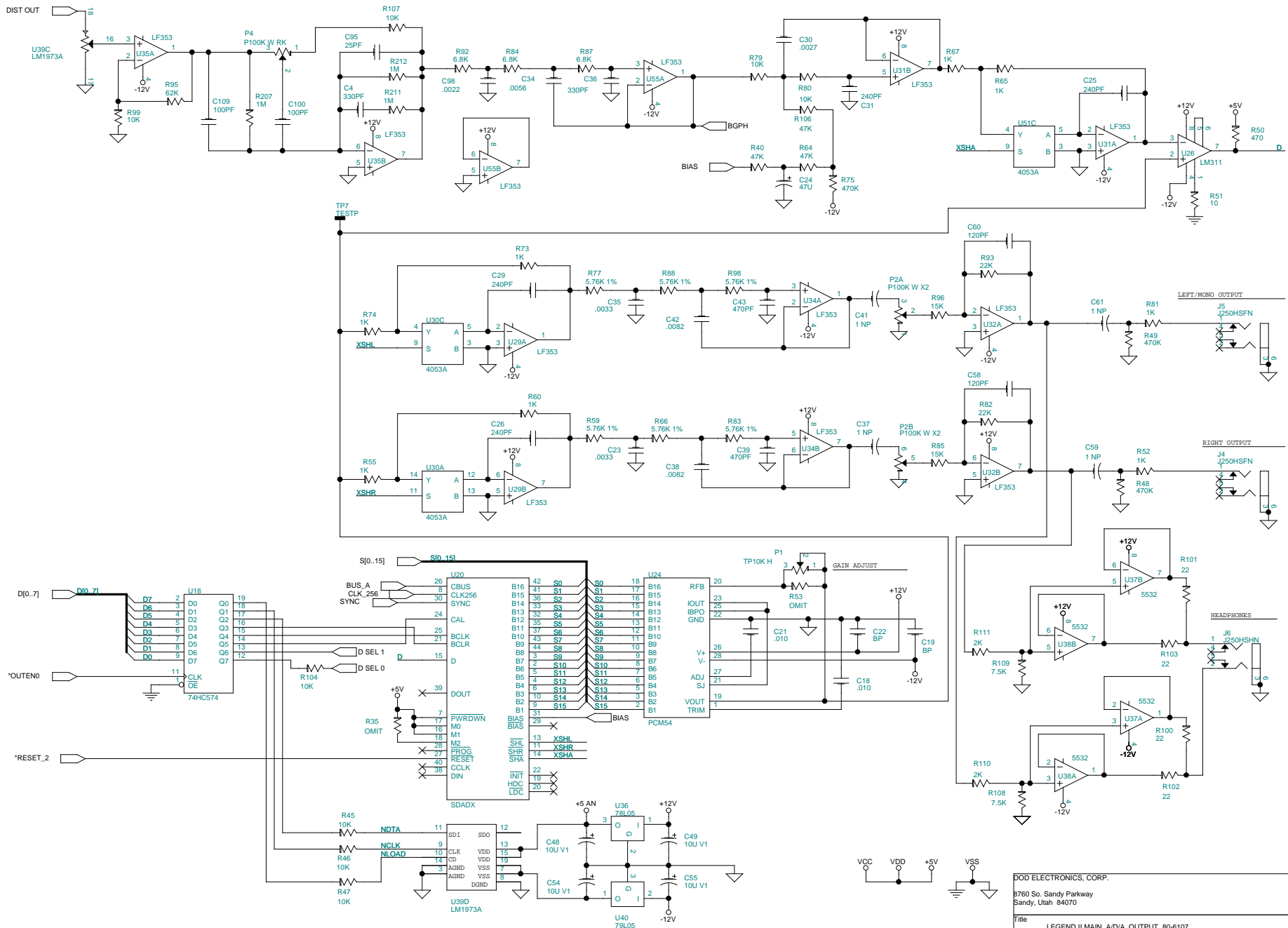


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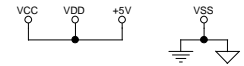
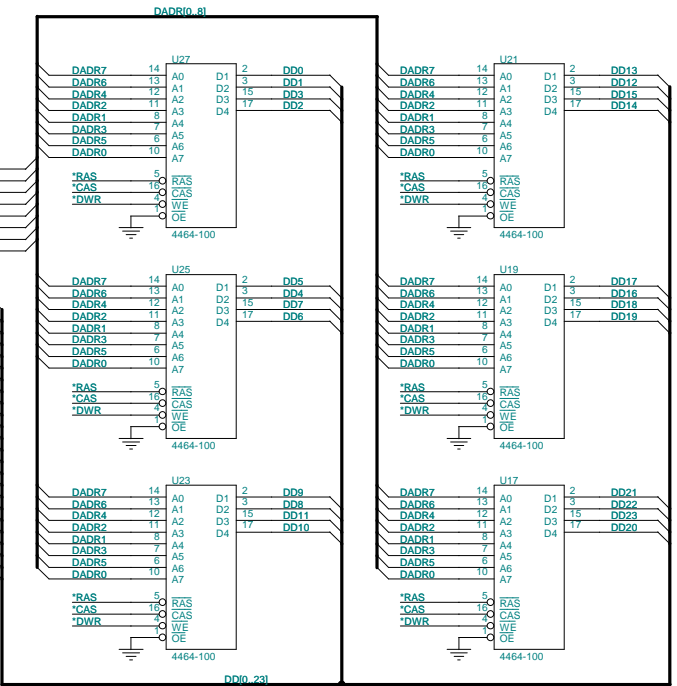
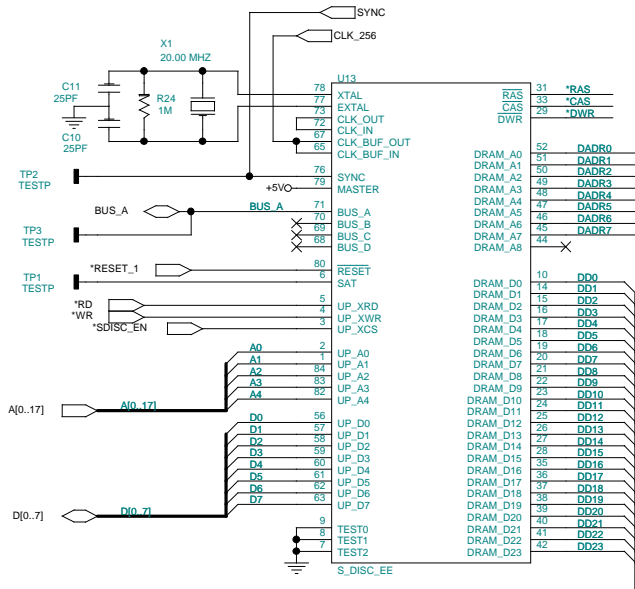


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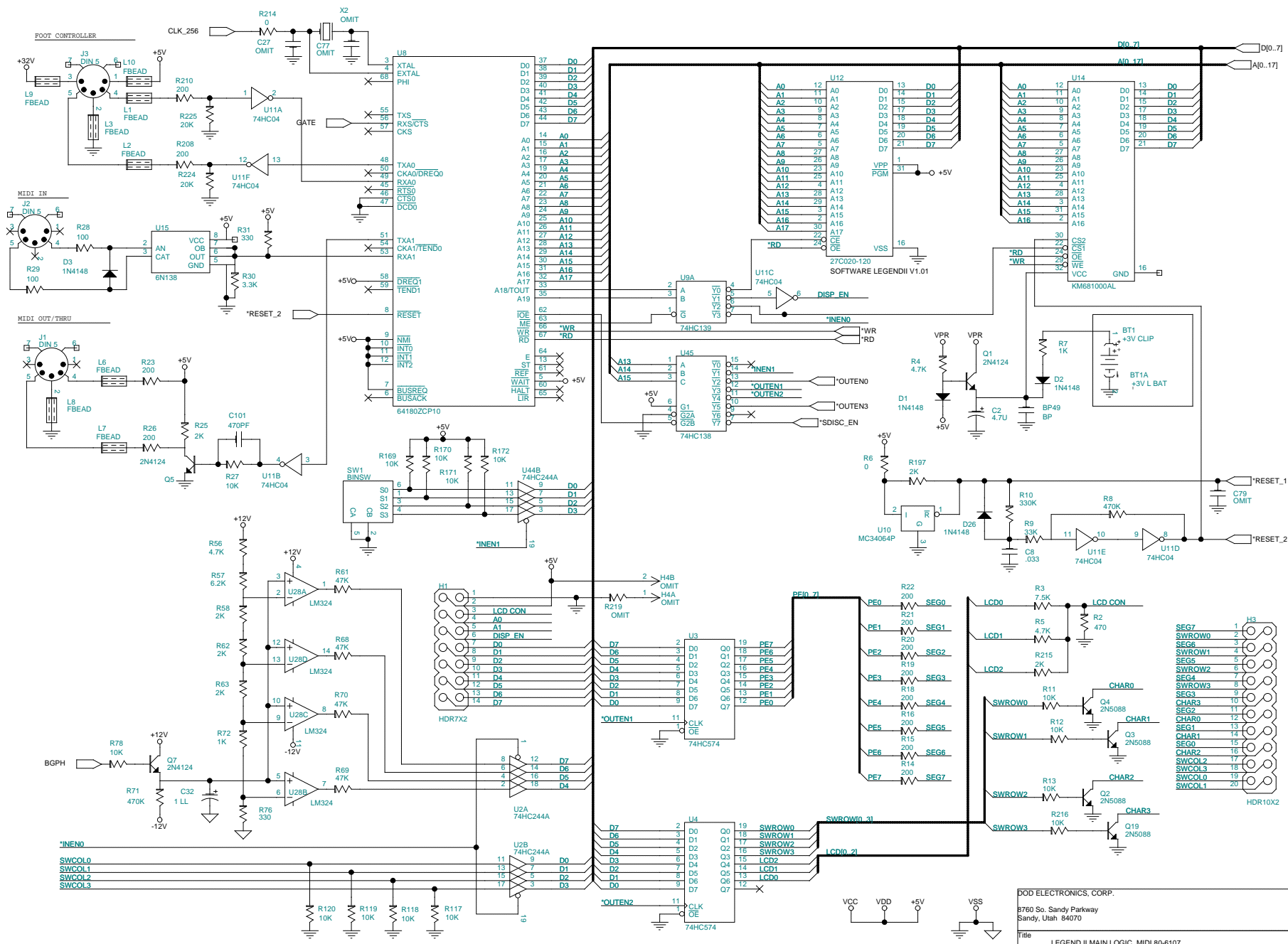
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 LEGEND II MAIN, A/D/A, OUTPUT 80-6107

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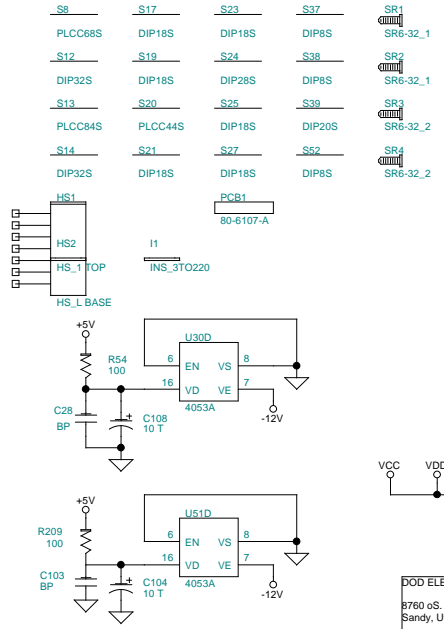
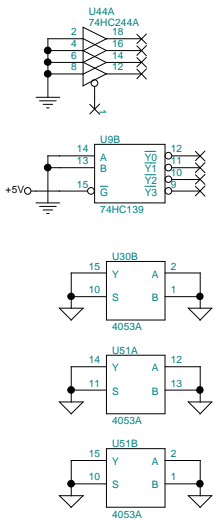
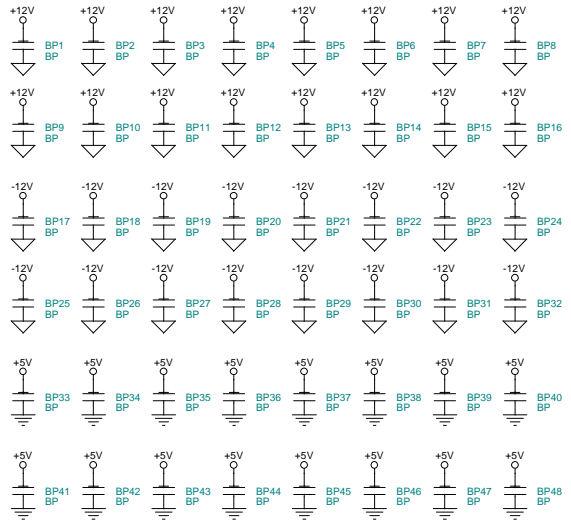
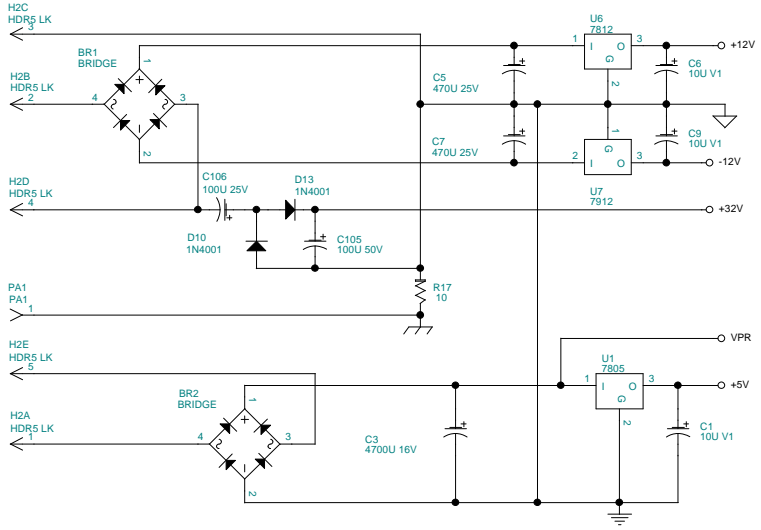


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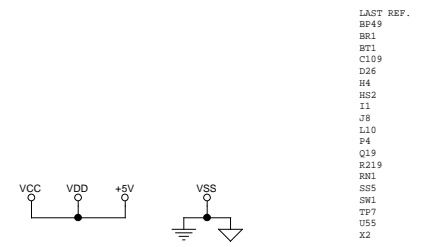
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 LEGEND II MAIN LOGIC, MIDI 80-6107

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S8	S17	S23	S37	SR1
PLCC68S	DIP18S	DIP18S	DIP8S	SR6-32_1
S12	S19	S24	S38	SR2
DIP32S	DIP18S	DIP28S	DIP8S	SR6-32_1
S13	S20	S25	S39	SR3
PLCC84S	PLCC44S	DIP18S	DIP20S	SR6-32_2
S14	S21	S27	S52	SR4
DIP32S	DIP18S	DIP18S	DIP8S	SR6-32_2
		PCB1		
		80-6107-A		
	I1	INS_3TO220		



- LAST REF.
 BP49
 BR1
 BT1
 C109
 D26
 H4
 HS2
 I1
 J8
 L10
 P4
 Q19
 R219
 RN1
 S85
 SW1
 T97
 U55
 X2

DOD ELECTRONICS, CORP. 8760 oS, Sandy Parkway Sandy, Utah 84070	
Title LEGEND II MAIN, POWER 80-6107	
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Part

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Description

55	BP1,BP2,BP3,BP4,BP5,BP6, BP7,BP8,BP9,BP10,BP11, BP12,BP13,BP14,BP15,BP16, BP17,BP18,BP19,C19,BP20, BP21,BP22,C22,BP23,BP24, BP25,BP26,BP27,BP28,C28, BP29,BP30,BP31,BP32,BP33, BP34,BP35,BP36,BP37,BP38, BP39,BP40,BP41,BP42,BP43, BP44,BP45,BP46,BP47,BP48, BP49,C96,C97,C103	BP	62-0067	0.047	uF Capacitor	20%	50V Axial Monolithic
2	BR1,BR2	BRIDGE	70-0129		Bridge Rectifer		
1	BT1	+3V CLIP	24-1014		Holder For 3V Battery		
1	BT1A	+3V L BAT	24-1016		3V Battery, Lithium, Eveready Part #CR2032		
8	C1,C6,C9,C48,C49,C54,C55, C73	10U V1	60-0049-01	10.0	uF Capacitor	-20%,+80%	16V Electrolytic-D
2	C2,C51	4.7U	60-0048-01	4.7	uF Capacitor	-20%,+80%	16V Electrolytic
1	C3	4700U 16V	60-0062	4700.0	uF Capacitor	-20%,+80%	16V Electrolytic
2	C4,C36	330PF	62-0006	330	pF Capacitor	20%	50V Ceramic Disc
2	C5,C7	470U 25V	60-0058	470.0	uF Capacitor	-20%,+80%	25V Electrolytic
3	C8,C40,C68	.033	56-2027	0.033	uF Capacitor	10%	100V Polyester Film
4	C10,C11,C72,C95	25PF	62-0001	25	pF Capacitor	5%	50V Ceramic Disc
1	C12	200PF	62-0009	200	pF Capacitor	20%	50V Ceramic Disc
9	C13,C14,C62,C63,C66,C67, C80,C81,C85	.22 LL1	60-0039-01	0.22	uF Capacitor	20%	50V Electrolytic, LL-D
5	C15,C25,C26,C29,C31	240PF	62-0010	240	pF Capacitor	20%	50V Ceramic Disc
6	C16,C37,C41,C59,C61,C74	1 NP	60-0046-01	1.0	uF Capacitor	-20%,+80%	16V Elect., N.P.
2	C17,C86	.022	56-2025	0.022	uF Capacitor	10%	100V Polyester Film
4	C18,C21,C47,C56	.010	56-2022	0.010	uF Capacitor	10%	100V Polyester Film
4	C20,C69,C78,C102	.047 AM	62-0067	0.047	uF Capacitor	20%	50V Axial Monolithic
2	C23,C35	.0033	56-2014	0.0033	uF Capacitor	10%	100V Polyester Film
1	C24	47U	60-0054-01	47.0	uF Capacitor	-20%,+80%	16V Electrolytic
1	C30	.0027	56-2013	0.0027	uF Capacitor	10%	100V Polyester Film
1	C32	1 LL	60-0045-01	1.0	uF Capacitor	20%	50V Elect., LL
1	C34	.0056	56-2017	0.0056	uF Capacitor	10%	100V Polyester Film
3	C38,C42,C89	.0082	56-2019	0.0082	uF Capacitor	10%	100V Polyester Film
3	C39,C43,C101	470PF	62-0003	470	pF Capacitor	20%	50V Ceramic Disc
1	C45	.027	56-2026	0.027	uF Capacitor	10%	100V Polyester Film
2	C46,C99	10 NP	60-0051-01	10.0	uF Capacitor	-20%,+80%	16V Elect., NP
2	C50,C57	.33 LL	60-0061-01	0.33	uF Capacitor	20%	50V Electrolytic, LL
6	C52,C53,C58,C60,C64,C94	120PF	62-0002	120	pF Capacitor	20%	50V Ceramic Disc
2	C65,C106	100U 25V	60-0055	100.0	uF Capacitor	-20%,+80%	25V Electrolytic-S
8	C70,C71,C83,C87,C90,C91, C92,C93	1U	60-0044-01	1.0	uF Capacitor	-20%,+80%	50V Electrolytic
2	C75,C82	50PF	62-0008	50	pF Capacitor	5%	50V Ceramic Disc
1	C76	1.5 T	62-0164	1.5	uF Capacitor	20%	25V Tantalum
1	C84	.0018	56-2011	0.0018	uF Capacitor	10%	100V Polyester Film
1	C88	.10	56-2035	0.10	uF Capacitor	10%	100V Polyester Film
1	C98	.0022	56-2012	0.0022	uF Capacitor	10%	100V Polyester Film
2	C100,C109	100PF	62-0020	100	pF Capacitor	20%	50V Ceramic Disc
2	C104,C108	10 T	62-0163	10.0	uF Capacitor	10%	16V Tantalum
1	C105	100U 50V	60-0068	100.0	uF Capacitor	-20%,+80%	50V Electrolytic

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Quan	Reference	Part	SYMAN	Description
1	C107	15PF	62-0007	15 pF Capacitor 5% 50V Ceramic Disc
21	D1 ,D2,D3 ,D4 ,D5 ,D6 ,D7 ,D8 , D9 ,D11 ,D12 ,D15 ,D16 ,D17 , D18 ,D19 ,D20 ,D21 ,D22 ,D26 , D27	1N4148	70-0002	1N4148 Silicon Switching Diode, 75 Volts PIV
2	D10 ,D13	1N4001	70-0001	1N4001 Silicon Rectifier, 1 Amp, 50 Volts PIV
1	H1	HDR7X2	32-1083	14 Pin Hdr, 7x2, 0.1" spacing, 0.025" pins, .375
1	H2	HDR5 LK	32-1071	5 Pin Header, 0.1" spacing, 0.025" sq pins Lockin
1	H3	HDR10X2	32-1055	20 Pin Hdr, 10X2, 0.1" spacing, 0.025 pins
1	HS1	HS_L BASE	70-4205	Heatsink,
1	HS2	HS_1 TOP	70-4204	Heatsink, 3 Regulator, Top
1	I1	INS_3TO220	70-4209	Insulator, 3 Regulator Heatsink
3	J1 ,J2 ,J3	DIN 5	32-0092	5 Pin DIN Jack
3	J4 ,J5 ,J7	J250HSFN	32-0119	1/4 HPC Mount Jack Full Nose Thread Slimline
2	J6 ,J8	J250HSHN	32-0118	1/4 HPC Mount Jack 1/2 Nose Thread Slimline
8	L1 ,L2 ,L3 ,L6 ,L7 ,L8 ,L9 ,L10	FBEAD	26-0221	Ferrite Bead - 1 Hole
1	P1	TP10K H	42-0211	10 K Trim Pot, Horizontal Mount, 3/4 turn
1	P2	P100K W X2	40-2011	100 K "W" Rot Pot x2, Rack Leads
1	P3	TP50K H	42-0222	50 K Trim Pot, Horizontal Mount, 3/4 turn
1	P4	P100K W RK	40-2012	100 K "W" Rot Pot, Rack Style Leads
1	PA1	PA1	-----	1 Pin Pad, Not a part
1	PCB1	80-6107-A	80-6107-A	LEGENDII MAIN PCB RAW
5	Q1 ,Q5 ,Q6 ,Q7 ,Q13	2N4124	70-1009	2N4124 NPN Gen. Purp. Amplifier/Switching Transis
6	Q2 ,Q3 ,Q4 ,Q9 ,Q12 ,Q19	2N5088	70-1007	2N5088 NPN Low Level Amplifier Transistor
2	Q8 ,Q18	2N4125	70-1008	2N4125 PNP Gen. Purp. Amplifier/Switching Transis
6	Q10 ,Q11 ,Q14 ,Q15 ,Q16 ,Q17	J112	70-1012	J112A JFET National
55	R1 ,R11 ,R12 ,R13 ,R27 ,R42 , R45 ,R46 ,R47 ,R78 ,R79 ,R80 , R99 ,R104 ,R105 ,R107 ,R114 , R116 ,R117 ,R118 ,R119 ,R120 , R127 ,R128 ,R129 ,R130 ,R140 , R141 ,R142 ,R144 ,R147 ,R156 , R157 ,R158 ,R163 ,R169 ,R170 , R171 ,R172 ,R174 ,R175 ,R176 , R181 ,R183 ,R186 ,R187 ,R190 , R192 ,R193 ,R194 ,R195 ,R196 , R199 ,R216 ,R217	10K	50-0020	10 KOhm Resistor 5% 1/4 Watt Carbon Film
4	R2 ,R50 ,R179 ,R184	470	50-0006	470 Ohm Resistor 5% 1/4 Watt Carbon Film
3	R3 ,R108 ,R109	7.5K	50-0017	7.5 KOhm Resistor 5% 1/4 Watt Carbon Film
6	R4 ,R5 ,R56 ,R112 ,R191 ,R201	4.7K	50-0015	4.7 KOhm Resistor 5% 1/4 Watt Carbon Film
2	R6 ,R214	0	50-0050	0 Ohm Resistor 5% 1/4 Watt Carbon Film
10	R7 ,R52 ,R55 ,R60 ,R65 ,R67 , R72 ,R73 ,R74 ,R81	1K	50-0012	1 KOhm Resistor 5% 1/4 Watt Carbon Film
10	R8 ,R32 ,R48 ,R49 ,R71 ,R75 , R113 ,R173 ,R177 ,R178	470K	50-0042	470 KOhm Resistor 5% 1/4 Watt Carbon Film
2	R9 ,R138	33K	50-0028	33 KOhm Resistor 5% 1/4 Watt Carbon Film
1	R10	330K	50-0041	330 KOhm Resistor 5% 1/4 Watt Carbon Film
12	R14 ,R15 ,R16 ,R18 ,R19 ,R20 , R21 ,R22 ,R23 ,R26 ,R208 , R210	200	50-0004	200 Ohm Resistor 5% 1/4 Watt Carbon Film
2	R17 ,R51	10	50-0001	10 Ohm Resistor 5% 1/4 Watt Carbon Film
6	R24 ,R132 ,R206 ,R207 ,R211 ,	1M	50-0045	1 MOhm Resistor 5% 1/4 Watt Carbon Film

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14	R212 R25 ,R33 ,R58 ,R62 ,R63 ,R110 ,	2K	50-0013	2 KOhm Resistor 5% 1/4 Watt Carbon Film
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	R111,R154,R160,R161,R162, R165,R197,R215								
5	R28,R29,R54,R145,R209	100	50-0003	100	Ohm Resistor	5%	1/4 Watt	Carbon Film	
7	R30,R44,R91,R168,R203, R220,R221	3.3K	50-0014	3.3	KOhm Resistor	5%	1/4 Watt	Carbon Film	
3	R31,R76,R97	330	50-0005	330	Ohm Resistor	5%	1/4 Watt	Carbon Film	
16	R34,R121,R122,R123,R124, R125,R126,R146,R148,R149, R150,R200,R202,R204,R224, R225	20K	50-0023	20	KOhm Resistor	5%	1/4 Watt	Carbon Film	
7	R36,R85,R86,R89,R96,R115, R137	15K	50-0019	15	KOhm Resistor	5%	1/4 Watt	Carbon Film	
4	R37,R153,R164,R205	220K	50-0040	220	KOhm Resistor	5%	1/4 Watt	Carbon Film	
7	R38,R131,R135,R152,R159, R167,R180	100K	50-0036	100	KOhm Resistor	5%	1/4 Watt	Carbon Film	
2	R39,R151	150K	50-0038	150	KOhm Resistor	5%	1/4 Watt	Carbon Film	
15	R40,R41,R61,R64,R68,R69, R70,R94,R106,R133,R143, R155,R166,R185,R188	47K	50-0030	47	KOhm Resistor	5%	1/4 Watt	Carbon Film	
1	R57	6.2K	50-0219	6.2	KOhm Resistor	5%	1/4 Watt	Carbon Film	
6	R59,R66,R77,R83,R88,R98	5.76K 1%	52-0116	5.76	KOhm Resistor	1%	1/4 Watt	Metal Film	
3	R82,R93,R134	22K	50-0025	22	KOhm Resistor	5%	1/4 Watt	Carbon Film	
3	R84,R87,R92	6.8K	50-0016	6.8	KOhm Resistor	5%	1/4 Watt	Carbon Film	
1	R90	51	50-0002	51	Ohm Resistor	5%	1/4 Watt	Carbon Film	
2	R95,R139	62K	50-0032	62	KOhm Resistor	5%	1/4 Watt	Carbon Film	
4	R100,R101,R102,R103	22	50-0158	22	Ohm Resistor	5%	1/4 Watt	Carbon Film	
1	R136	120K	50-0037	120	KOhm Resistor	5%	1/4 Watt	Carbon Film	
2	R182,R189	24K	50-0026	24	KOhm Resistor	5%	1/4 Watt	Carbon Film	
1	R198	27K	50-0027	27	KOhm Resistor	5%	1/4 Watt	Carbon Film	
1	R218	12K	50-0021	12	KOhm Resistor	5%	1/4 Watt	Carbon Film	
2	R222,R223	3.9M	50-0048	3.9	MOhm Resistor	5%	1/4 Watt	Carbon Film	
1	RN1	10KRX9	54-0355	10	Pin SIP BX-103	10K			
1	S8	PLCC68S	70-3164	68	PLCC Socket				
2	S12,S14	DIP32S	70-3017	32	Pin Dip Socket				
1	S13	PLCC84S	70-3163	84	PLCC Socket				
6	S17,S19,S21,S23,S25,S27	DIP18S	70-3160	18	Pin Dip Socket				
1	S20	PLCC44S	70-3024	44	PLCC Socket				
1	S24	DIP28S	70-3161	28	Pin Dip Socket				
3	S37,S38,S52	DIP8S	70-3020	8	Pin Dip Socket				
1	S39	DIP20S	70-3018	20	Pin Dip Socket				
2	SR1,SR2	SR6-32_1	28-0058		Screw, 6-32 x 3/8",	Pozi-pan, Black			
2	SR3,SR4	SR6-32_2	28-0059		Screw, 6-32 x 1/4",	Pozi-pan, Black			
1	SW1	BINSW	44-0092		16 Bit Grey Code Rotary Switch				
7	TP1,TP2,TP3,TP4,TP5,TP6, TP7	TESTP	-----		This is not a part.				
1	U1	7805	70-4014	7805	+5 Volt	1 Amp	Voltage Regulator	TO-220	
2	U2,U44	74HC244A	72-1107		Octal Buffer-Line Driver W/3-State Outputs				
4	U3,U4,U18,U42	74HC574	72-1112		Octal D-Type Pos. Edge Triggered Flip-Flops				
1	U6	7812	70-4013	7812	+12 Volt	1 Amp	Voltage Regulator	TO-220	
1	U7	7912	70-4017	7912	-12 Volt	1 Amp	Voltage Regulator	TO-220	

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1	U8	64180ZCP10	72-3154		CPU Z180 Microprocessor			
1	U9	74HC139	72-1100		Dual 2 Line to 4 Line Decoder/Demultiplexer			
1	U10	MC34064P	70-5004		MC34064 Undervoltage Sensing Circuit			
1	U11	74HC04	72-1098		Hex Inverter			
1	U12	27C020-120	72-3076		27C020-120 EPROM Black w/window			
1	U13	S_DISC_EE	72-3172		ASIC, Digitech Custom DSP			84-PLCC
1	U14	KM681000AL	72-3059		128K X 8 RAM Static			

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1	U15	6N138	70-2139	Opto-Isolator
14	U16,U22,U29,U31,U32,U34, U35,U41,U47,U48,U50,U53, U54,U55	LF353	72-4030	LF353 Wide Bandwidth Dual JFET Input Op-Amp
6	U17,U19,U21,U23,U25,U27	4464-100	72-3149-10	64K X 4 Dynamic RAM -100ns
1	U20	SDADX	72-3176	A/D/A Interface ASIC
1	U24	PCM54	72-3079	16 BIT DAC
1	U26	LM311	72-4027	LM311 Analog Voltage Comparator
1	U28	LM324	72-4028	Low Power Quad Operational Amplifier
2	U30,U51	4053A	72-0086	Triple 2 Pole Analog Mux
2	U33,U43	4051	72-0081	8 CH Analog Multiplex
1	U36	78L05	70-4012	78L05 +5 Volt 100 mA Voltage Regulator TO-92
3	U37,U38,U52	5532	72-4023	5532 Low Noise Dual Op-Amp
1	U39	LM1973A	72-4043	LM1973 Triple digital controlled analog attenuator
1	U40	79L05	70-4127	78L05 -5 Volt 100 mA Voltage Regulator TO-92
1	U45	74HC138	72-1108	3 Line to 8 Line Decoder/Demultiplexer
1	U46	LM833	72-4246	Low Noise Dual Audio Operational Amp
1	U49	DBX2155	72-4055	dbx 2155 Voltage Controlled Amplifier
1	X1	20.00 MHZ	76-0321	20.00 MHZ Crystal
9	X2,H4,C27,R35,R43,R53, C77,C79,R219	OMIT	-----	These parts have been omitted