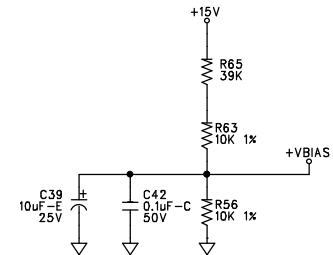
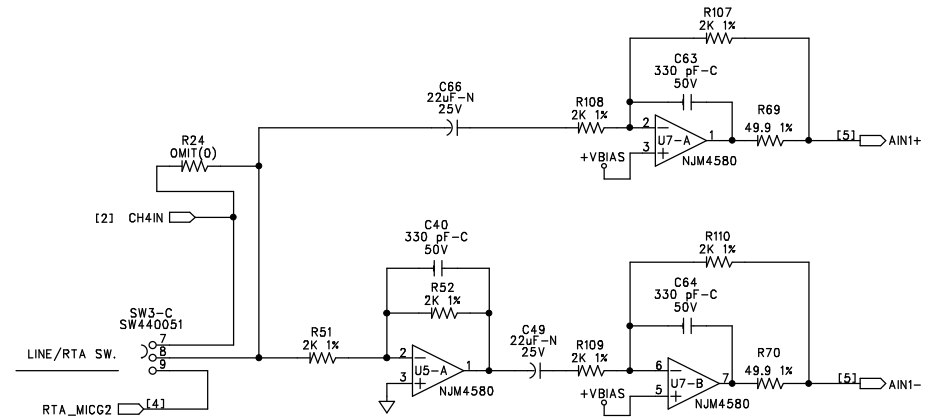
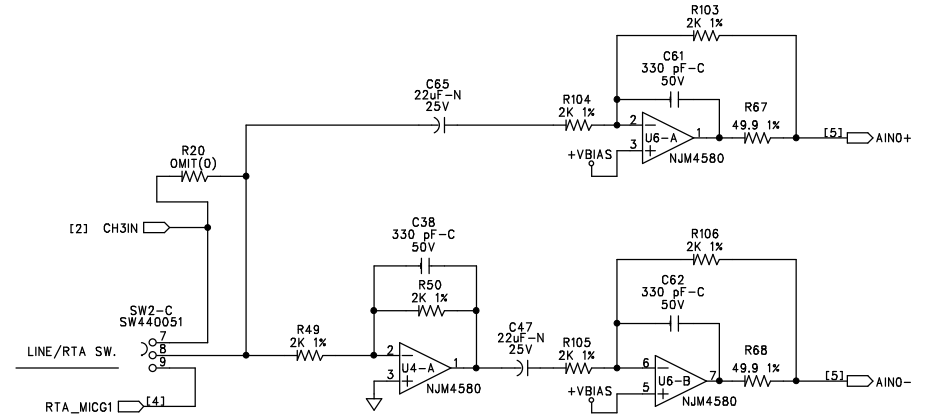
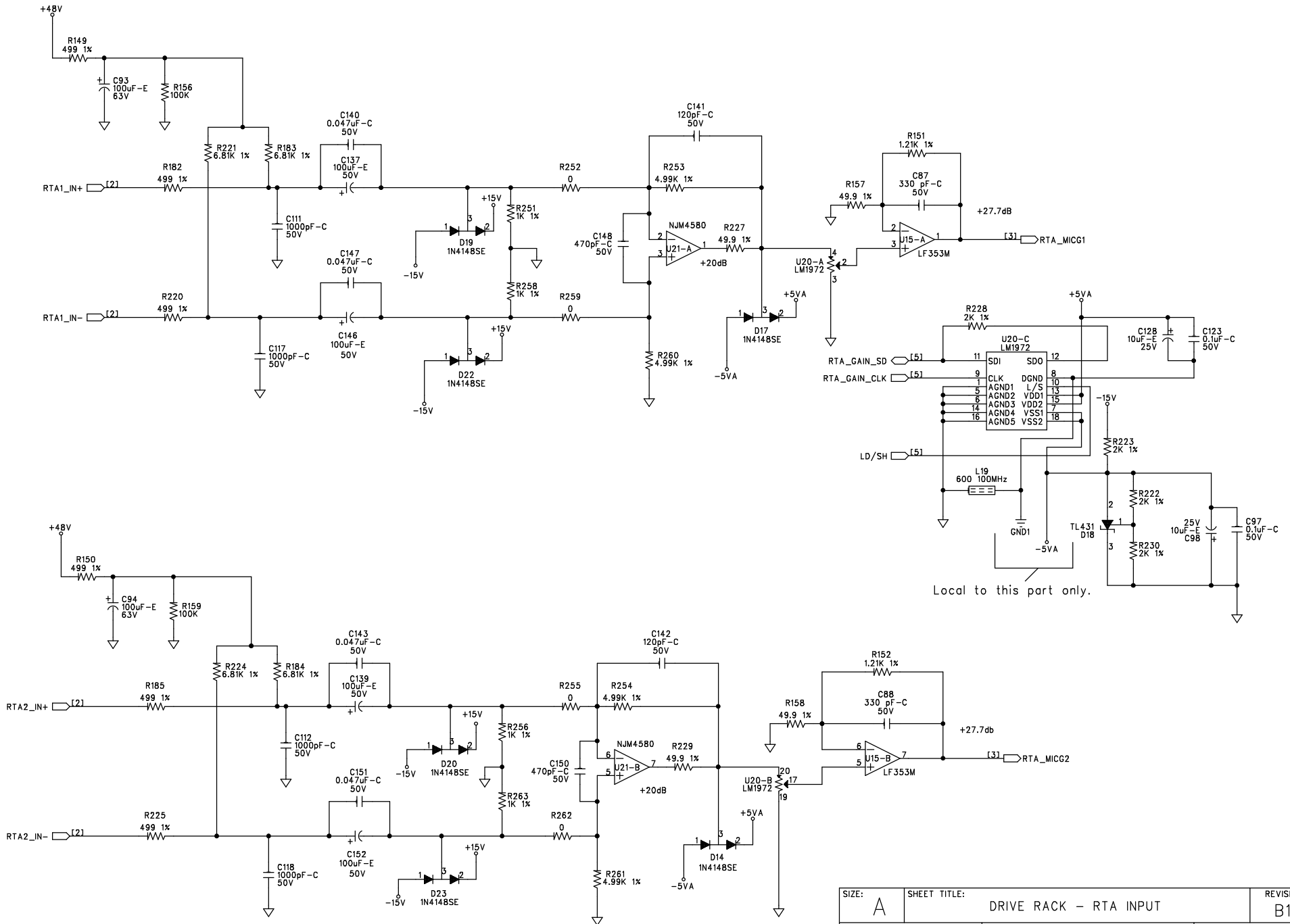


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DATE: 2-18-03	DRAWING NO: 05-5332	SHEET: 2 OF 9



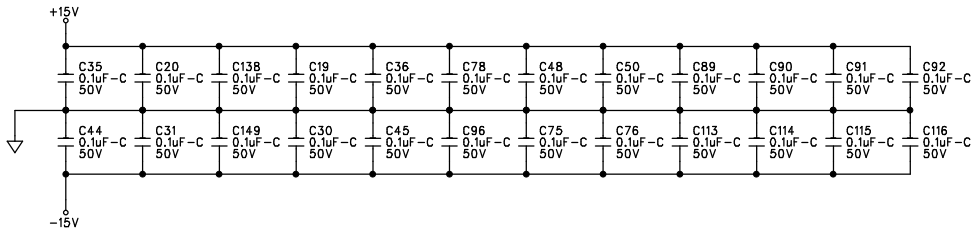
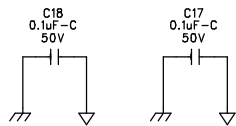
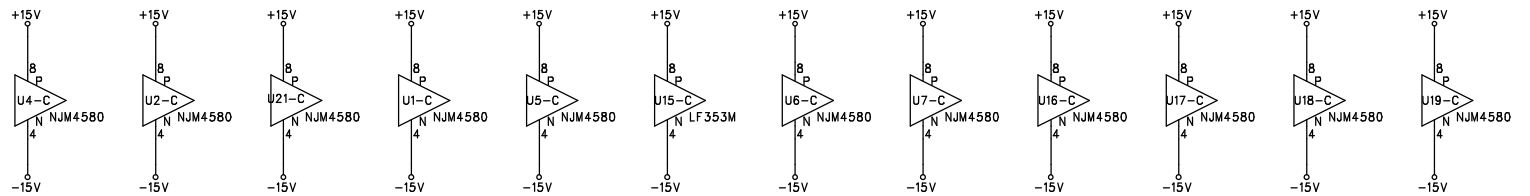
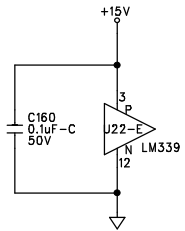
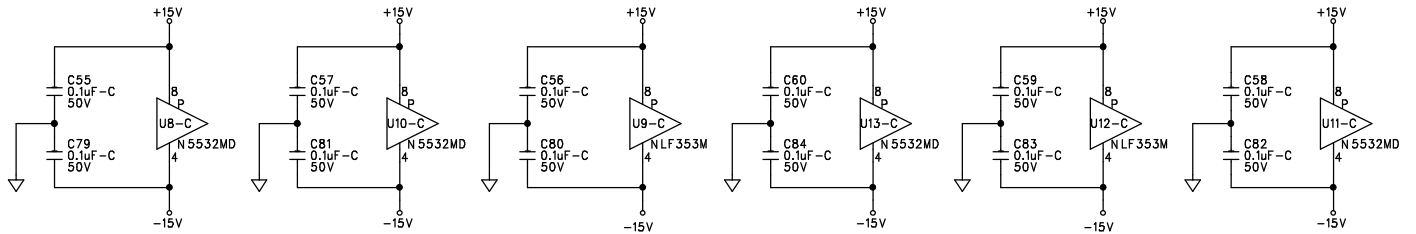
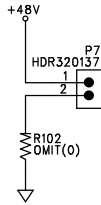
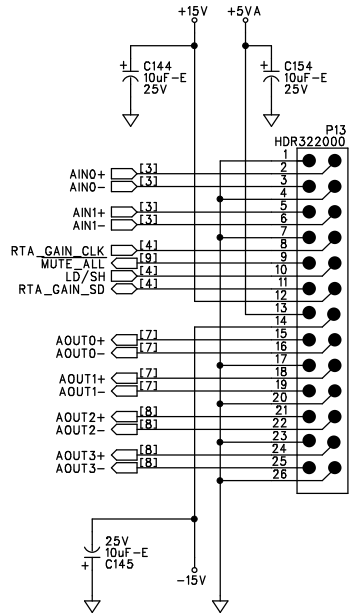
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DATE: 2-18-03	DRAWING NO: 05-5332	SHEET: 3 OF 9



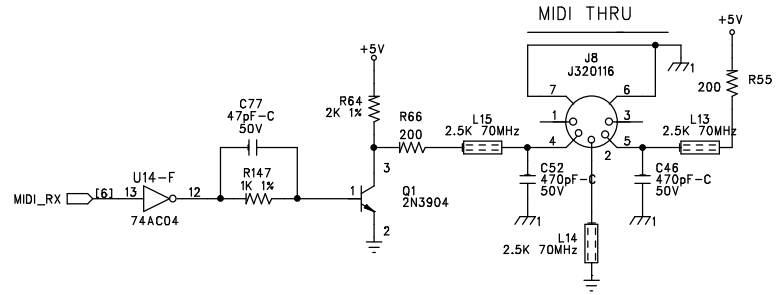
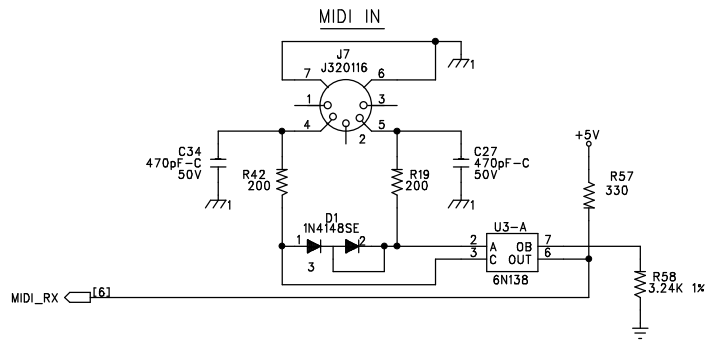
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DATE: 2-18-03	DRAWING NO: 05-5332	SHEET: 4 OF 9

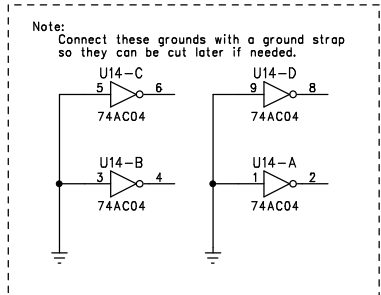
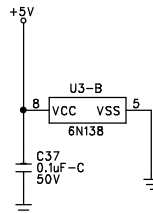
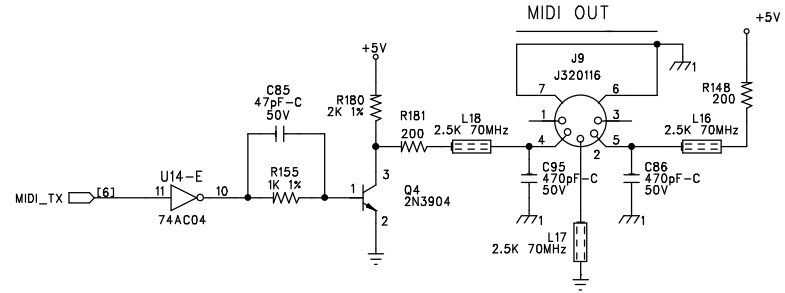
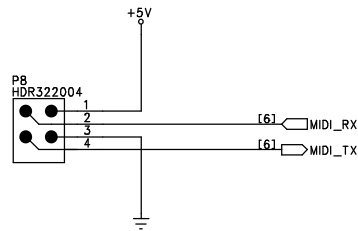
To Digital board



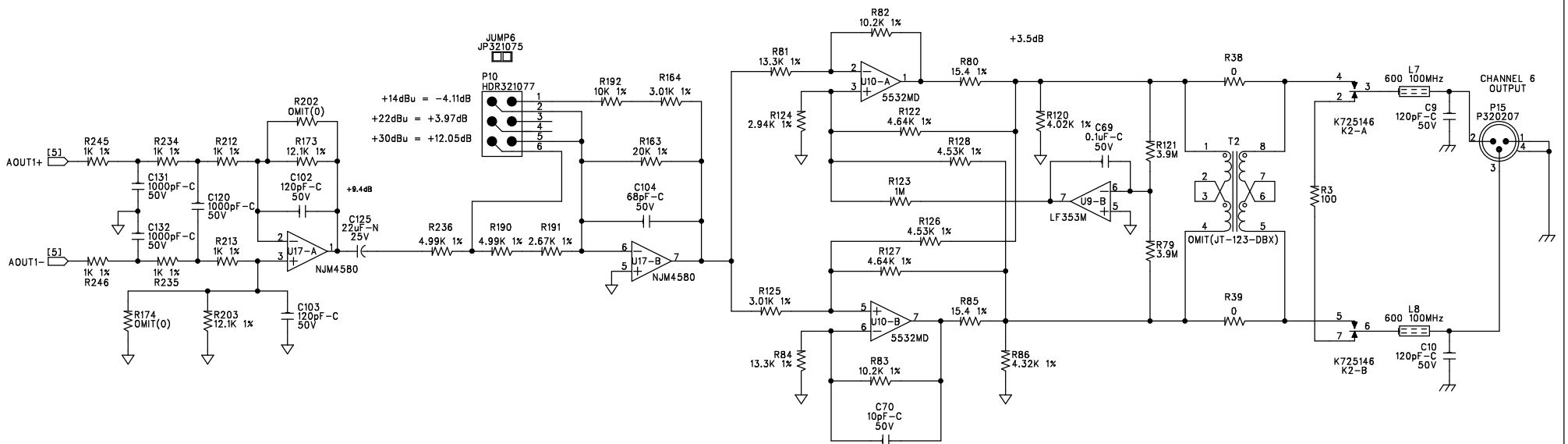
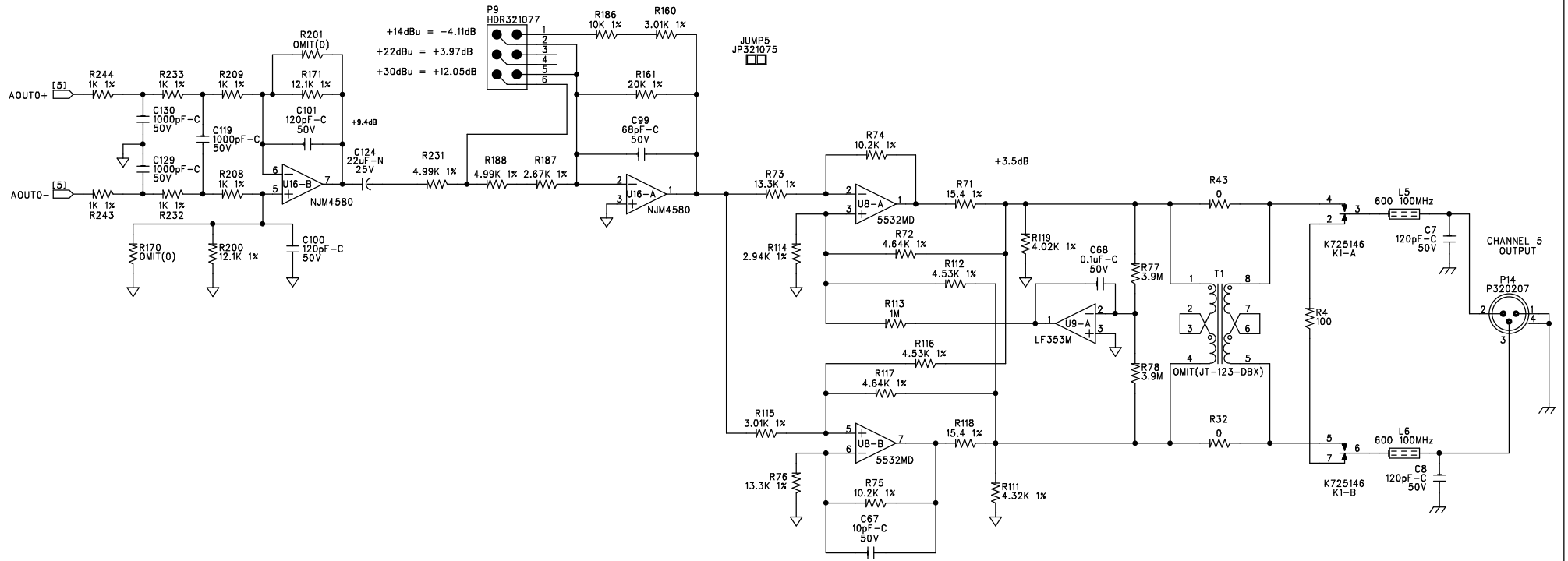
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DATE: 2-18-03	DRAWING NO: 05-5332	SHEET: 5 OF 9



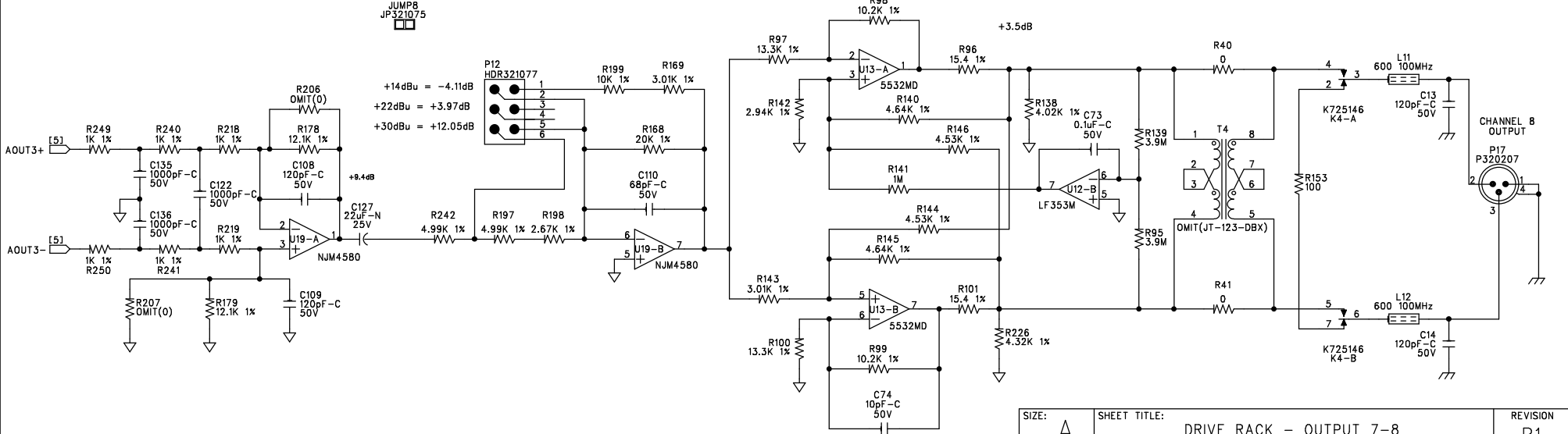
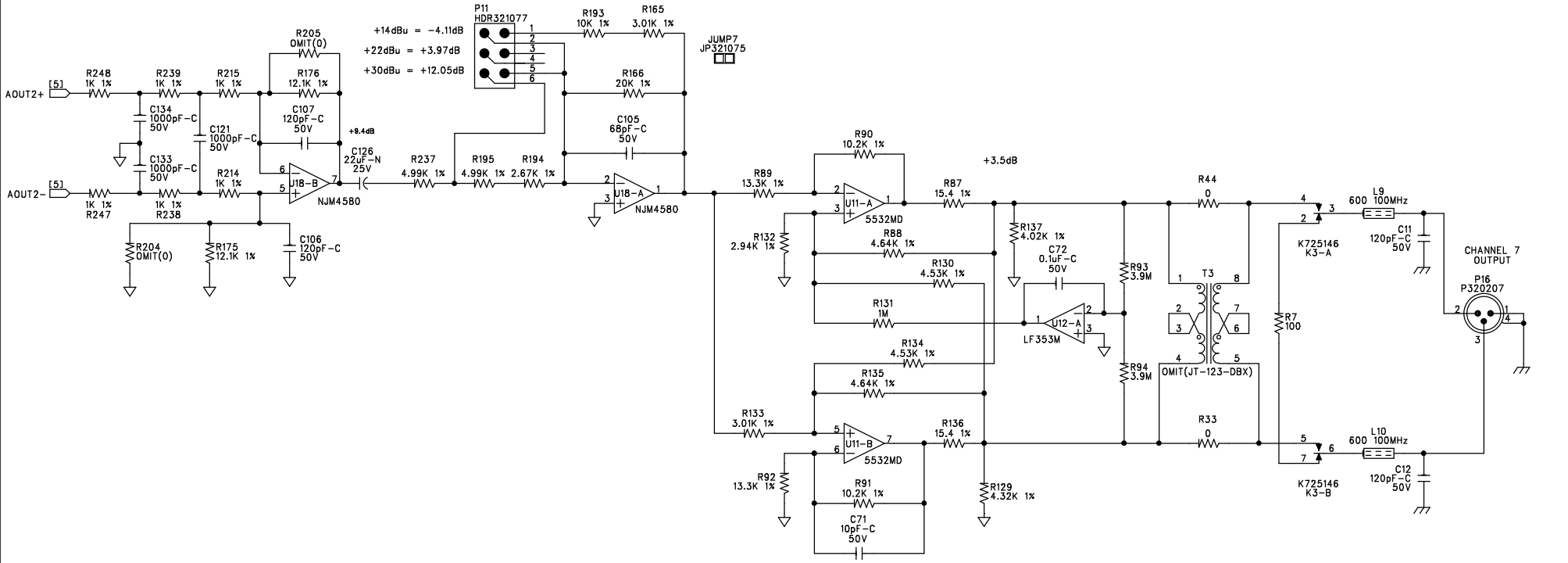
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DATE: 2-18-03	DRAWING NO: 05-5332	SHEET: 6 OF 9

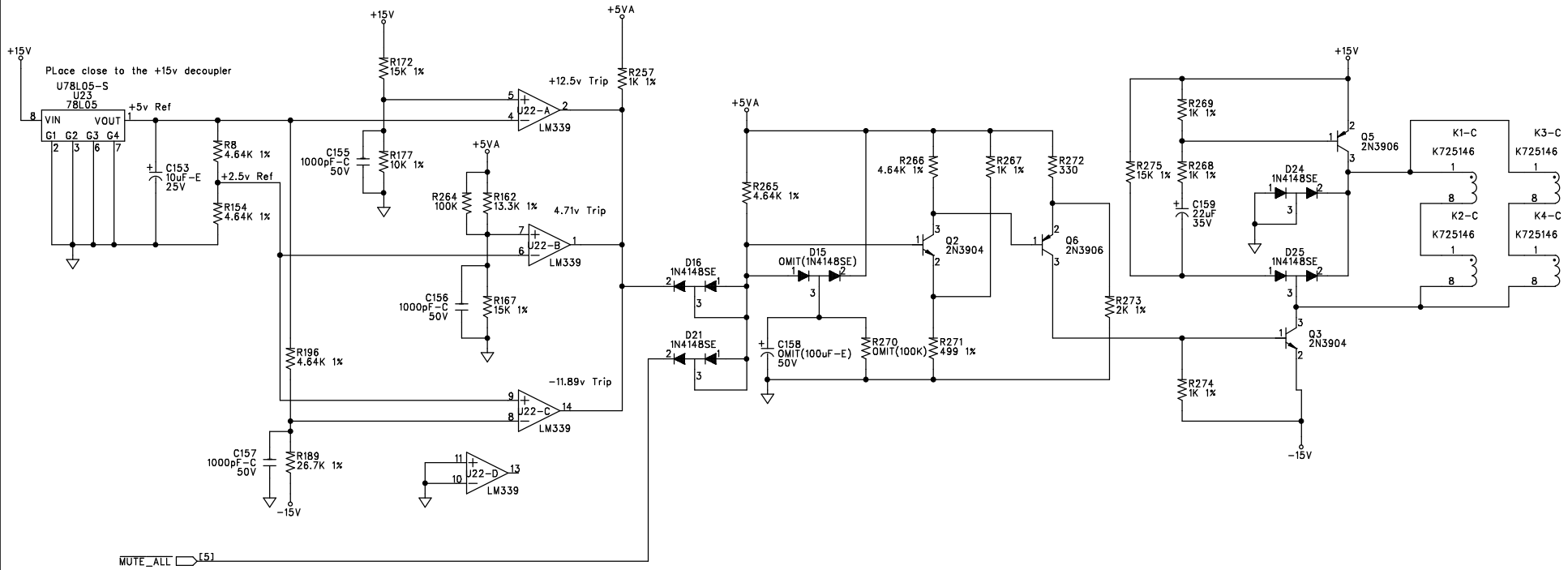


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DATE: 2-18-03	DRAWING NO: 05-5332	SHEET: 7 OF 9



SIZE: A	SHEET TITLE: DRIVE RACK - OUTPUT 7-8	REVISION: B1
DATE: 2-18-03	DRAWING NO: 05-5332	SHEET: 8 OF 9





SIZE: A	SHEET TITLE: MUTE RELAY CONTROL	REVISION: B1
DATE: 2-18-03	DRAWING NO: 05-5332	SHEET: 9 OF 9

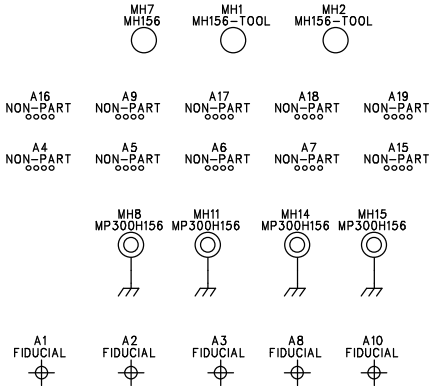
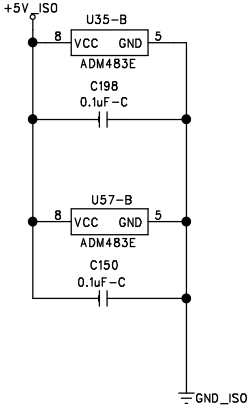
Bill Of Materials for 055332bl.sch on Tue Feb 18 15:58:32 2003

Qty	Reference	HMG#	Description	Audit	Schematic Part	PCB Decal
1	PCB1	80-5332	PCB 80-5332 dbx DRIDVE RACK ANALOG BOARD	PT2044	80XXXXXY	BARCODE
6	A1 A3-7	NON-PART	NON-PART, PCB ONLY, BREAKOFF PART	PT1481	BRKOFF	BRKOFF
2	C53-54	56-0033	CAP, 0.027uF, FILM, 100V, 5%, RFEF200, AMMO	PT1282	C0.027UF100JR	RFEF200
4	C140 C143 C147 C151	62-3129	CAP, 0.047uF, CER, 50V, 20%, 0805, T&R	PT1202	C0.047UC50M0805	0805
48	C17-20 C30-31	62-3139	CAP, 0.1uF, CER, 50V, 20%, 0805, T&R	PT1087	C0.1UC50M0805	0805
	C35-37 C42 C44-45					
	C48 C50-51 C55-60					
	C68-69 C72-73					
	C75-76 C78-84					
	C89-92 C96-97					
	C113-116 C123 C138					
	C149 C160					
19	C111-112 C117-122	62-3136	CAP, 1000pF, CER, 50V, 20%, 0805, T&R	PT1109	C1000PC50M0805	0805
	C129-136 C155-157					
4	C137 C139 C146 C152	60-1013	CAP, 100uF, ELEC, 50V, 20%, REJ200P, AMMO	PT1408	C100UE50MR	REJ200P
1	C158	OMIT	OMIT, CAP, 100uF, ELEC, 50V, 20%, REJ200P, AMMO, (60-1013)	PT1409	C100UE50MRO	REJ200P
2	C93-94	60-1034	CAP, 100uF, ELEC, 63V, 20%, REM200P, AMMO	PT1777	C100UE63MR	REM200P
8	C21 C23 C28-29 C67	62-3140	CAP, 10pF, CER, 50V, 5%, 0805, T&R	PT1088	C10PC50J0805	0805
	C70-71 C74					
7	C39 C98 C128	60-0050-01	CAP, 10uF, ELEC, 25V, 20%, RED200P, AMMO	PT1205	C10UE25MR	RED200P
	C144-145 C153-154					
20	C7-14 C22 C24	62-3135	CAP, 120pF, CER, 50V, 5%, 0805, T&R	PT1440	C120PC50J0805	0805
	C100-103 C106-109					
	C141-142					
1	C159	60-0010	CAP 22uF ELEC 35V 20% AMMO	PT2110	C22UE35MR	REE200P
10	C15-16 C47 C49	60-0402	CAP, 22uF, ELEC, NON-POL, 25V, 20%, REG200, AMMO	PT1084	C22UN25MR	REG200
	C65-66 C124-127					
10	C38 C40-41 C43	62-3131	CAP, 330pF, CER, 50V, 10%, 0805, T&R	PT1284	C330PC50K0805	0805
	C61-64 C87-88					
14	C1-6 C27 C34 C46	62-3133	CAP, 470pF, CER, 50V, 10%, 0805, T&R	PT1086	C470PC50K0805	0805
	C52 C86 C95 C148					
	C150					
2	C77 C85	62-3132	CAP, 47pF, CER, 50V, 5%, 0805, T&R	PT1085	C47PC50J0805	0805
4	C25-26 C32-33	60-0054-01	CAP, 47uF, ELEC, 16V, 20%, REE200P, AMMO	PT1108	C47UE16MR	REE200P
4	C99 C104-105 C110	62-3137	CAP, 68pF, CER, 50V, 5%, 0805, T&R	PT1285	C68PC50J0805	0805
23	D1-14 D16-17 D19-25	70-0113	DIO, MMBD4148SE, DUAL DIODE, 75V, 600mA, SOT-23, T&R	PT1326	D1N4148SE-S	SOT-23
1	D15	OMIT	OMIT, DIO, MMBD4148SE, DUAL DIODE, 75V, 600mA, SOT-23, T&R, (70-0113)	PT1327	D1N4148SE-S-O	SOT-23
1	D18	72-3601	DIODE, TL431, PROGRAMMABLE PRECISION REFERENCE, TO92(RAC)-V, AMMO	PT1469	DTL431-R	TO92(RAC)-V
2	A2 A8	NON-PART	NON-PART, FIDUCIAL, TARGET FOR AUTO INSERTION	PT1271	FIDUCIAL	FIDUCIAL
1	P7	32-0137	HDR, 2 PIN, .098 SPC, 2X1, SHROUDED, VERTICAL MT.	PT1854	HDR320137	HC21V98SP
4	P9-12	32-1077	HDR, 6 PIN, 0.1" SPC, 2 X 3, VERT, MALE	PT1683	HDR321077	HC32
6	P1-6	32-1079	HDR, 4 PIN, 0.1" SPC, 2 X 2, VERT, MALE	PT1414	HDR321079	HC22
1	P13	32-2000	HDR, 26 PIN, 0.1" SPC, 2 X 13, VERT, MALE	PT1298	HDR322000	HC132
1	P8	32-2004	HDR, 4 PIN, 0.118" SPC, 2 X 2, LKG, SHD, POL, VERT, MALE	PT1461	HDR322004	HC22118LSPM
3	J7-9	32-0116	CON, JACK, SHIELDED 5 PIN DIN, PCB MOUNT	PT1319	J320116	J320116
2	J1-2	32-0208	CON, JACK, XLR, CHASSIS PCB MOUNT, HORIZONTAL, B SERIES	PT1220	J320208	XLRF-1
8	JUMP1-8	32-1075	JUMPER, MINI, .100 SPC	PT1415	JP321075	PCBNUL
4	K1-4	72-5146	RELAY DPDT 12VDC POL SM	PT2219	K725146	KSLIM-8P
1	LBL1	30-0121	LABEL BARCODE AUTOINSERTABLE RAW	PT2790	LABEL300121	LABEL300121
6	L13-18	26-0217	IND, FERRITE BEAD, 2.5K OHM @ 70MHz, 0805, T&R	PT1261	LFB260217	0805
13	L1-12 L19	26-0219	INDUCTOR, FERRITE BEAD, 600 OHM @ 100MHz, 0805, T&R	PT1453	LFB260219	0805
4	MH1-3 MH5	NON-PART	NON-PART, MOUNTING HOLE, 0.156" NON-PLATED,#6	PT1044	MH156	MH156
2	MH4 MH6	NON-PART	NON-PART, TOOLING PIN HOLE, 156MIL HOLE	PT1416	MH156-TOOL	MH156-TOOL
1	MP1	NON-PART	NON-PART, MECHANICAL PLATED HOLE, 300 PAD, 156 HOLE, #6	PT1045	MP300H156	MP300H156
4	P14-17	32-0207	CON, PLUG, XLR, CHASSIS PCB MOUNT, HORIZONTAL, B SERIES	PT1217	P320207	XLRM-1
4	Q1-4	70-1058	XSTR, 2N3904, NPN, SOT-23, T&R	PT1203	Q2N3904-S	SOT-23
2	Q5-6	70-1059	XSTR, 2N3906, PNP, SOT-23, T&R	PT1057	Q2N3906-S	SOT-23
12	R32-33 R38-41	50-1531	RES 0 5% 1/10W SM 0805 TA	PT1099	R0-C5-0805	0805
	R43-44 R252 R255					

15	R259 R262 R20 R24 R102 R170 R174 R201-202 R204-207 R210-211 R216-217	OMIT	OMIT RES 0 5% 1/10W SM 0805 TA (50-1531)	PT1006 R0-C5-08050	0805
2	R151-152	52-4538	RES 1.21K 1% 1/10W SM 0805 TA	PT1810 R1.21KC1-0805	0805
8	R74-75 R82-83 R90-91 R98-99	52-4562	RES 10.2K 1% 1/10W SM 0805 TA	PT1831 R10.2KC1-0805	0805
4	R3-4 R7 R153	50-1515	RES 100 5% 1/10W SM 0805 TA	PT1018 R100-C5-0805	0805
7	R29 R31 R46 R48 R156 R159 R264	50-1504	RES 100K 5% 1/10W SM 0805 TA	PT1096 R100KC5-0805	0805
1	R270	OMIT	OMIT RES 100K 5% 1/10W SM 0805 TA (50-1504)	PT1576 R100KC5-08050	0805
7	R56 R63 R177 R186 R192-193 R199	52-4500	RES 10K 1% 1/10W SM 0805 TA	PT1034 R10KC1-0805	0805
12	R9 R14 R34 R36 R171 R173 R175-176 R178-179 R200 R203	52-3234	RES 12.1K 1% 1/10W SM 0805 TA	PT1707 R12.1KC1-0805	0805
9	R73 R76 R81 R84 R89 R92 R97 R100 R162	52-3227	RES 13.3K 1% 1/10W SM 0805 TA	PT1714 R13.3KC1-0805	0805
8	R71 R80 R85 R87 R96 R101 R118 R136	52-4563	RES 15.4 1% 1/10W SM 0805 TA	PT1832 R15.4C1-0805	0805
3	R167 R172 R275	52-3233	RES 15K 1% 1/10W SM 0805 TA	PT1708 R15KC1-0805	0805
35	R147 R155 R208-209 R212-215 R218-219 R232-235 R238-241 R243-251 R256-258 R263 R267-269 R274	52-4505	RES 1K 1% 1/10W SM 0805 TA	PT1037 R1KC1-0805	0805
4	R113 R123 R131 R141	50-1506	RES 1M 5% 1/10W SM 0805 TA	PT1011 R1MC5-0805	0805
4	R187 R191 R194 R198	52-4507	RES 2.67K 1% 1/10W SM 0805 TA	PT1039 R2.67KC1-0805	0805
4	R114 R124 R132 R142	52-4564	RES 2.94K 1% 1/10W SM 0805 TA	PT1833 R2.94KC1-0805	0805
6	R19 R42 R55 R66 R148 R181	50-1510	RES 200 5% 1/10W SM 0805 TA	PT1013 R200-C5-0805	0805
8	R11 R16 R22 R26 R161 R163 R166 R168	52-4501	RES 20K 1% 1/10W SM 0805 TA	PT1035 R20KC1-0805	0805
1	R189	52-0329	RES 26.7K 1% 1/10W SM 0805 TA	PT2115 R26.7KC1-0805	0805
4	R1-2 R5-6	52-3249	RES 27.4K 1% 1/10W SM 0805 TA	PT1701 R27.4KC1-0805	0805
25	R49-54 R59-62 R64 R103-110 R180 R222-223 R228 R230 R273	52-4506	RES 2K 1% 1/10W SM 0805 TA	PT1038 R2KC1-0805	0805
8	R115 R125 R133 R143 R160 R164-165 R169	52-3252	RES 3.01K 1% 1/10W SM 0805 TA	PT1704 R3.01KC1-0805	0805
3	R12 R17 R58	52-4509	RES 3.24K 1% 1/10W SM 0805 TA	PT1040 R3.24KC1-0805	0805
8	R77-79 R93-95 R121 R139	50-1537	RES 3.9M 5% 1/10W SM 0805 TA	PT1585 R3.9MC5-0805	0805
4	R21 R25 R35 R37	52-3220	RES 30.1K 1% 1/10W SM 0805 TA	PT1721 R30.1KC1-0805	0805
2	R57 R272	50-1517	RES 330 5% 1/10W SM 0805 TA	PT1020 R330-C5-0805	0805
4	R28 R30 R45 R47	50-1512	RES 33K 5% 1/10W SM 0805 TA	PT1015 R33KC5-0805	0805
1	R65	50-1528	RES 39K 5% 1/10W SM 0805 TA	PT1028 R39KC5-0805	0805
4	R119-120 R137-138	52-4524	RES 4.02K 1% 1/10W SM 0805 TA	PT1838 R4.02KC1-0805	0805
4	R86 R111 R129 R226	52-4520	RES 4.32K 1% 1/10W SM 0805 TA	PT1835 R4.32KC1-0805	0805
8	R112 R116 R126 R128 R130 R134 R144 R146	52-4510	RES 4.53K 1% 1/10W SM 0805 TA	PT1130 R4.53KC1-0805	0805
13	R8 R72 R88 R117 R122 R127 R135 R140 R145 R154 R196 R265-266	52-4565	RES 4.64K 1% 1/10W SM 0805 TA	PT1834 R4.64KC1-0805	0805
12	R188 R190 R195 R197 R231 R236-237 R242 R253-254 R260-261	52-4511	RES 4.99K 1% 1/10W SM 0805 TA	PT1041 R4.99KC1-0805	0805
8	R67-70 R157-158 R227 R229	52-4502	RES 49.9 1% 1/10W SM 0805 TA	PT1036 R49.9-C1-0805	0805
7	R149-150 R182 R185	52-4504	RES 499 1% 1/10W SM 0805 TA	PT1102 R499-C1-0805	0805

2	R220 R225 R271						
	R13 R18	52-4512	RES 5.76K 1% 1/10W SM 0805 TA		PT1131 R5.76KC1-0805	0805	
4	R183-184 R221 R224	52-4515	RES 6.81K 1% 1/10W SM 0805 TA		PT1281 R6.81KC1-0805	0805	
4	R10 R15 R23 R27	52-4517	RES 7.5K 1% 1/10W SM 0805 TA		PT1790 R7.5KC1-0805	0805	
3	SC1-3	34-0125	SWITCH CAP, BLACK, ROUND		PT1354 SC340125	SC340125-FPE	
1	SW1	44-0050	SWITCH DPDT MINI IN-OUT 6 PIN E-SWITCH		PT1256 SW440050	SW440050	
2	SW2-3	44-0051	SWITCH, 4PDT, MINI IN-OUT, 12 PIN, E-SWITCH		PT1257 SW440051	SW440051	
4	T1-4	OMIT	OMIT, TRANSFORMER, OUTPUT, JT-123-DBX SAME AS RE-123-DBX (26-0112)		PT1215 TR260112-0	XFR-1	
4	U8 U10-11 U13	72-1439	IC, 5532MD, DUAL BIPOLAR OPAMP, SO8-200		PT1306 U5532MD-S	SO8-200	
1	U3	70-2146	IC, 6N138, OPTO ISOLATOR, DIP8-300-S		PT1492 U6N138-S1	DIP8-300-S	
1	U14	72-5426	IC, 74AC04, HEX INVERTER, SO14, T&R		PT1325 U74AC04-S	SO14	
1	U23	70-4143	REG 78L05 +5V 100ma 3-TERM POS SM TA		PT2220 U78L05-S	SO8	
3	U9 U12 U15	72-4032	IC, LF353M, DUAL,WIDE BANDWIDTH JFET INPUT OPAMP, SO8		PT1252 ULF353M-S	SO8	
1	U20	72-4038	IC LM1972 uPOT 2-CHANNEL 78db AUDIO ATTEN W/MUTE		PT1872 ULM1972-S	SO20W	
1	U22	72-4034	IC, LM339, QUAD COMPARATOR, SO14, T&R		PT1048 ULM339-S	SO14	
11	U1-2 U4-7 U16-19 U21	72-1480	IC, NJM4580, DUAL OP-AMP, SO8		PT1374 UNJM4580-S	SO8	





LBL1  
30-0121  
PCB1  
80-6368-A

SIZE:	05-6368-A0 POWER & PCB DETAILS	REV:	A0
DATE:	8-28-02	SHEET:	2 OF 3

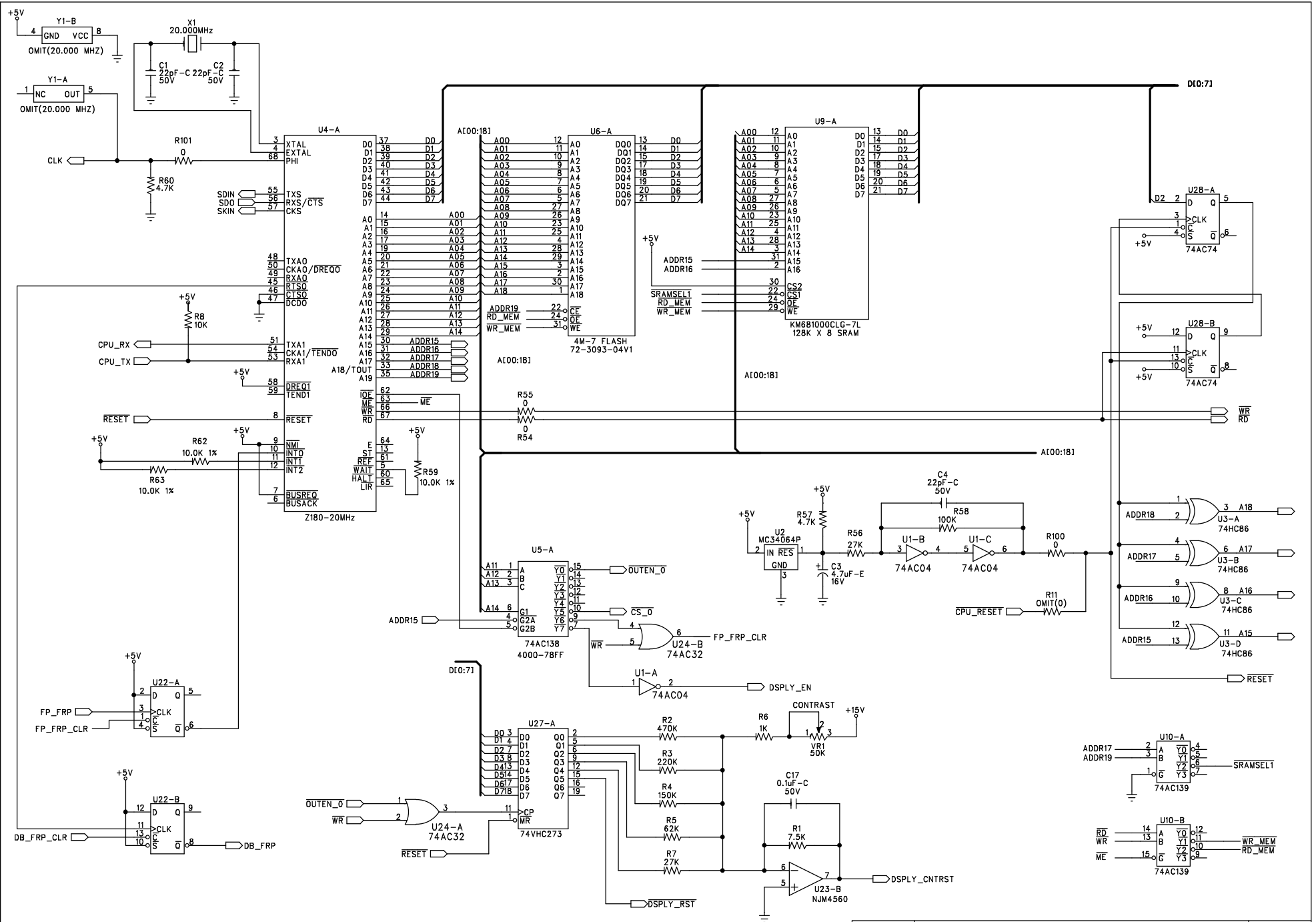


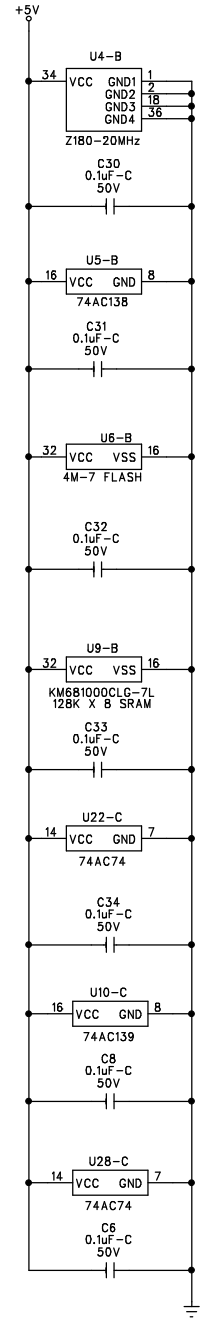
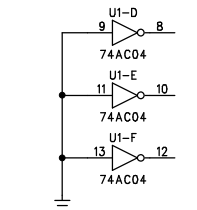
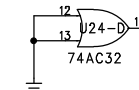
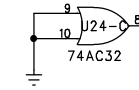
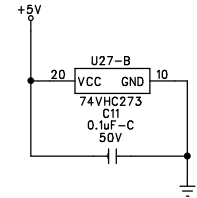
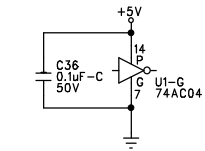
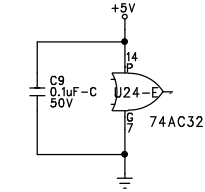
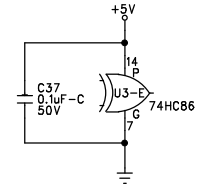
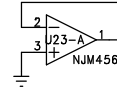
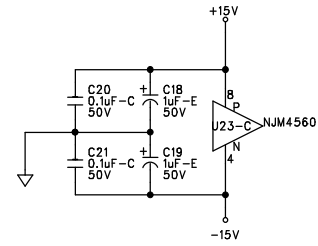
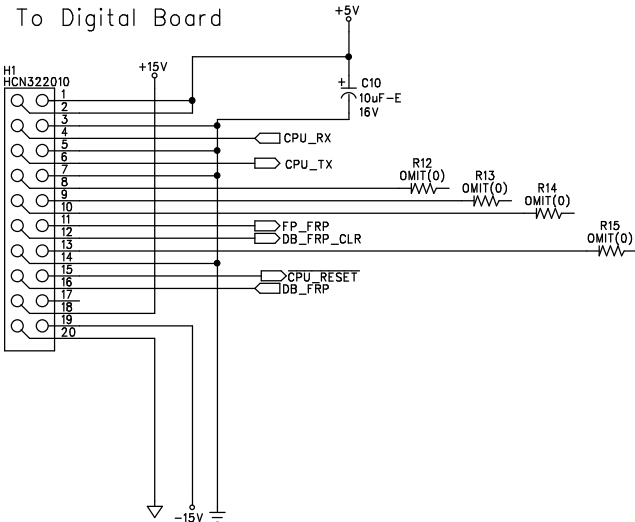
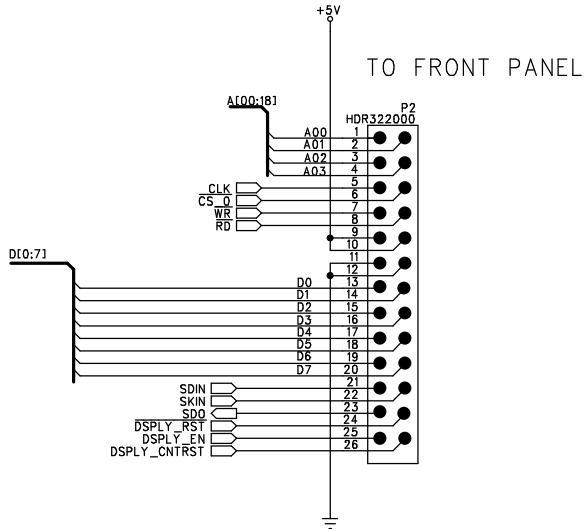
Bill Of Materials for 056368A0.sch on Wed Aug 28 09:55:07 2002

Qty	Reference	HMG#	Description	Audit	Schematic Part	PCB Decal
1	PCB1	80-6368-A	PCB 80-6368 DRIVE RACK COMMUNICATION PCB	PT2044	80XXXXXX	BARCODE
10	A4-7 A9 A15-19	NON-PART	NON-PART, PCB ONLY, BREAKOFF PART	PT1481	BRKOFF	BRKOFF
13	C52 C191-192 C210 C252 C261 C269-270 C273-277	62-3051	CAP 0.001uF CER 1KV 10% BK	PT2028	C0.001UC1KKR	RCEE200
20	C146-150 C158 C182 C195 C198-199 C245 C248-251 C262-265 C272	62-3139	CAP, 0.1uF, CER, 50V, 20%, 0805, T&R	PT1087	C0.1UC50MS	0805
1	C246	60-0049-01	CAP, 10uF, ELEC, 16V, 20%, RED200P, AMMO	PT1080	C10UE16MR	RED200P
3	D12-13 D15	70-0113	DIO, MMBD4148SE, DUAL DIODE, 75V, 600mA, SOT-23, T&R	PT1326	D1N4148SE-S	SOT-23
5	A1-3 A8 A10	NON-PART	NON-PART, FIDUCIAL, TARGET FOR AUTO INSERTION	PT1271	FIDUCIAL	FIDUCIAL
1	H2	32-1055	HDR, 20 PIN, 0.1" SPC, 2 X 10, VERT, MALE	PT1340	HDR321055	HC102
3	H12-14	32-1243	HDR 3 PIN .098 SPC 3X1 SHROUDED VERTICAL MT.	PT1876	HDR321243	HC31V98SP
1	H8	32-2009	HDR 10 PIN 0.1" SPC 2 X 5 VERT MALE	PT1874	HDR322009	HC52
1	J10	32-1134	CON JACK RJ45 DUAL 8 PIN RA PCB MOUNT	PT1911	J321134	JRJ45_8P_DUAL
1	J9	32-3164	JACK D-CONN DUAL 9 PIN RIGHT ANGLE FEMALE PCB MOUNT	PT2036	J323164	DCON9PFDUAL
1	J8	32-3195	JACK DCONN DUAL PORT 9P RA M/F PC MNT	PT1929	J323195	DCON9PMFDUAL
1	J4	32-3301	JACK RJ45 SINGLE PORT 8 PIN R/A PCB MNT	PT2037	J323301	JRJ45_8P-LONG
1	LBL1	30-0121	LABEL BARCODE AUTOINSERTABLE RAW	PT2790	LABEL300121	LABEL300121
1	DS2	70-1900	LED GRN R/A ANTI-TIP HOUSING	PT2034	LEDG701900	D701902
1	DS1	70-1902	LED, RED, R/A, ANTI-TIP HOUSING	PT1133	LEDR701902	D701902
2	MH7 MH13	NON-PART	NON-PART, MOUNTING HOLE, 0.156" NON-PLATED, #6	PT1044	MH156	MH156
2	MH1-2	NON-PART	NON-PART, TOOLING PIN HOLE, 156MIL HOLE	PT1416	MH156-TOOL	MH156-TOOL
4	MH8 MH11 MH14-15	NON-PART	NON-PART, MECHANICAL PLATED HOLE, 300 PAD, 156 HOLE, #6	PT1045	MP300H156	MP300H156
1	Q5	70-1058	XSTR, 2N3904, NPN, SOT-23, T&R	PT1203	Q2N3904-S	SOT-23
1	Q6	70-1059	XSTR, 2N3906, PNP, SOT-23, T&R	PT1057	Q2N3906-S	SOT-23
2	R173-174	50-1503	RES 10K 5% 1/10W SM 0805 TA	PT1095	R10KC5-0805	0805
1	R179	50-0111	RES 120 5% 1/4W SM 1206 TA	PT1903	R120-C5-1206	1206
12	R21 R23 R34 R68 R99 R142 R144 R158-159 R161-162 R172	50-1505	RES 1K 5% 1/10W SM 0805 TA	PT1010	R1KC5-0805	0805
2	R177-178	52-0032	RES 1K 5% 1/4W SM 1206 TA	PT2035	R1KC5-1206	1206
9	R31-33 R143 R145 R150-151 R156-157	50-1529	RES 2.2K 5% 1/10W SM 0805 TA	PT1127	R2.2KC5-0805	0805
2	R163-164	50-1517	RES 330 5% 1/10W SM 0805 TA	PT1020	R330-C5-0805	0805
2	R126 R160	50-1509	RES 4.7K 5% 1/10W SM 0805 TA	PT1012	R4.7KC5-0805	0805
2	R175-176	50-1518	RES 470 5% 1/10W SM 0805 TA	PT1021	R470-C5-0805	0805
6	U62 U67-68 U72-74	70-2147	IC 6N137 OPTO-ISOLATOR HIGH SPEED DIP8-300	PT2039	U6N137	DIP8-300
4	U25 U63 U69-70	70-2146	IC, 6N138, OPTO ISOLATOR, DIP8-300-S	PT1492	U6N138-S1	DIP8-300-S
1	U26	72-5418	IC, 74HC00, QUAD 2-INPUT NAND, SO14, T&R	PT1348	U74HC00-S	SO14
1	U75	72-1085	IC, 74HC02, QUAD 2-INPUT NOR, SO14	PT1514	U74HC02-S	SO14
1	U37	72-5436	IC ADM211E RS-232 TRNSCVR EMC/EMI COMP	PT1865	UADM211E-S	SSOP28
3	U35-36 U57	72-1264	IC. TRANSCEIVER, EIA RS485, EMC COMPLIANT, SO8	PT1857	UADM483E-S	SO8







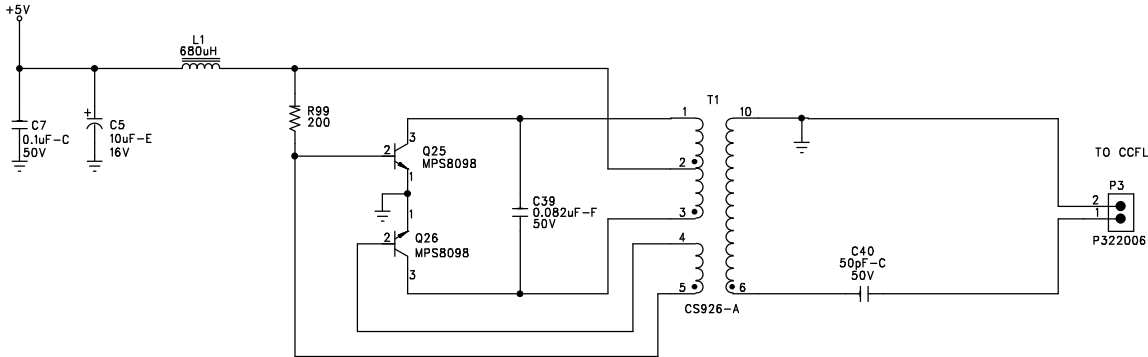


F1 FIDUCIAL  
 F2 FIDUCIAL  
 F3 FIDUCIAL



SIZE: A	SHEET TITLE: CONNECTORS & POWER	REVISION: A3
START DATE: 7-12-00	DRAWING NO: 05-6356-A3	SHEET: 3 OF 4

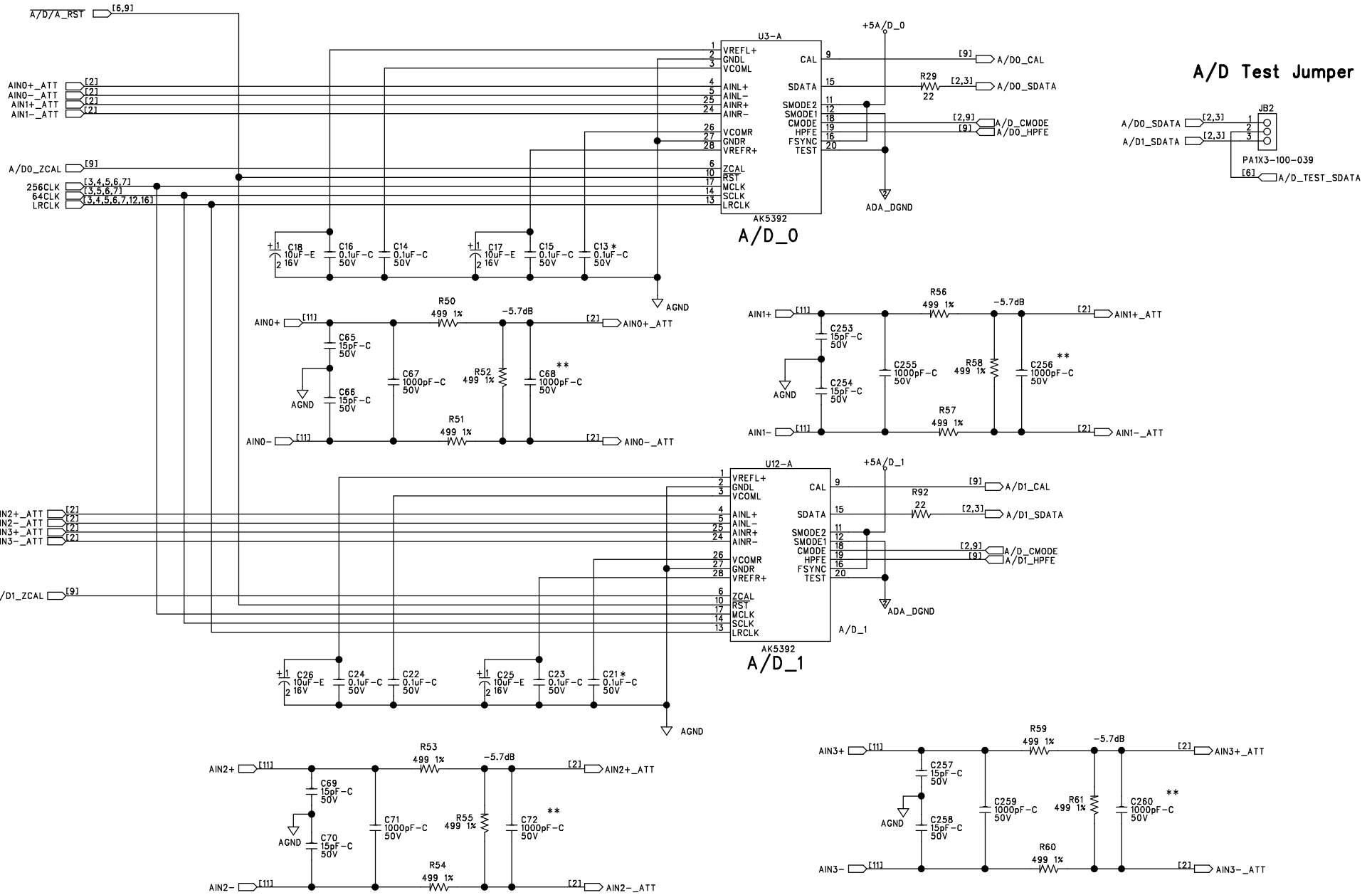
INVERTER



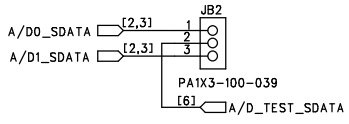
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DATE: 7-12-00	DRAWING NO: 05-6356-A3	SHEET: 4 OF 4

Qty	Reference	HMG#	Description	Audit	Schematic Part	PCB Decal
1	PCB1	80-6356-A	PCB 80-6356-A Drive Rack Daughter Board	PT2044	80XXXXXX	BARCODE
1	C39	56-0036	CAP 0.082uF FILM 50V 5% TA	PT2245	C0.082UF50JR	RFEC200
15	C6-9 C11 C17 C20-21 C30-34 C36-37	62-3139	CAP, 0.1uF, CER, 50V, 20%, 0805, T&R	PT1087	C0.1UC50MS	0805
2	C5 C10	60-0049-01	CAP, 10uF, ELEC, 16V, 20%, RED200P, AMMO	PT1080	C10UE16MR	RED200P
2	C18-19	60-0044-01	CAP, 1uF, ELEC, 50V, 20%, RED200P, AMMO	PT1079	C1UE50MR	RED200P
3	C1-2 C4	62-3134	CAP, 22pF, CER, 50V, 5%, 0805, T&R	PT1107	C22PC50JS	0805
1	C3	60-0048-01	CAP, 4.7uF, ELEC, 16V, 20%, REE200P, AMMO	PT1294	C4.7UE16MR	REE200P
1	C40	62-0008	CAP, 50pF, CER, 50V, 10%, RCCC200, AMMO	PT1769	C50PC50KR	RCCC200
3	F1-3	NON-PART	NON-PART, FIDUCIAL, TARGET FOR AUTO INSERTION	PT1271	FIDUCIAL	FIDUCIAL
1	H1	32-2010	HCN CONN 20 PIN FML VERT W/ ACCESS HOLES	PT1956	HCN322010	HC104SF
1	P2	32-2000	HDR, 26 PIN, 0.1" SPC, 2 X 13, VERT, MALE	PT1298	HDR322000	HC132
1	P1	32-2091	HDR 2P 0.2"S .250 TAB PCB QCK DISCON	PT1973	HDR322091	HC21V200M
1	L1	26-0191	IND 680uH 0.05A TA	PT1912	LI260191	RIM200
4	MH3-6	NON-PART	NON-PART, MOUNTING HOLE, 0.156" NON-PLATED,#6	PT1044	MH156	MH156
2	MH1-2	NON-PART	NON-PART, TOOLING PIN HOLE, 156MIL HOLE	PT1416	MH156-TOOL	MH156-TOOL
1	P3	32-2006	CON PLUG 8MM 2PIN SMT	PT1913	P322006	HC2H315LSPMS
2	Q25-26	70-1029	XSTR, MPS8098, NPN, AMPLIFIER, TO-92, AMMO	PT1234	QMP8098	TO92(EBC)-V
4	R54-55 R100-101	50-1531	RES 0 5% 1/10W SM 0805 TA	PT1099	R0-C5-0805	0805
5	R11-15	OMIT	OMIT RES 0 5% 1/10W SM 0805 TA (50-1531)	PT1006	R0-C5-0805O	0805
1	R9	50-0317	RES 0 5% 1/4W CF RR TA	PT1008	R0-E5-R	RRA200
3	R59 R62-63	52-4500	RES 10.0K 1% 1/10W SM 0805 TA	PT1034	R10.0KC1-0805	0805
1	R58	50-1504	RES 100K 5% 1/10W SM 0805 TA	PT1096	R100KC5-0805	0805
1	R8	50-1503	RES 10K 5% 1/10W SM 0805 TA	PT1095	R10KC5-0805	0805
1	R4	50-1526	RES 150K 5% 1/10W SM 0805 TA	PT1026	R150KC5-0805	0805
1	R6	50-1505	RES 1K 5% 1/10W SM 0805 TA	PT1010	R1KC5-0805	0805
1	R99	50-1510	RES 200 5% 1/10W SM 0805 TA	PT1013	R200-C5-0805	0805
1	R3	50-1514	RES 220K 5% 1/10W SM 0805 TA	PT1017	R220KC5-0805	0805
2	R7 R56	50-1527	RES 27K 5% 1/10W SM 0805 TA	PT1027	R27KC5-0805	0805
2	R57 R60	50-1509	RES 4.7K 5% 1/10W SM 0805 TA	PT1012	R4.7KC5-0805	0805
1	R2	50-1523	RES 470K 5% 1/10W SM 0805 TA	PT1025	R470KC5-0805	0805
1	R5	50-1501	RES 62K 5% 1/10W SM 0805 TA	PT1276	R62KC5-0805	0805
1	R1	50-1521	RES 7.5K 5% 1/10W SM 0805 TA	PT1024	R7.5KC5-0805	0805
1	T1	26-3603	TRANSFORMER CS926-A SMT	PT1884	TR263603	XFR-6
1	U9	72-5417	IC, 128K X 8, STATIC RAM, 70ns, SOP32	PT1333	U128K8S70-P	SOP32
1	U1	72-5426	IC, 74AC04, HEX INVERTER, SO14, T&R	PT1325	U74AC04-S	SO14
1	U5	72-1452	IC, 74AC138, 1-OF-8 DECODER/DEMULTIPLEXER, SO16	PT1420	U74AC138-S	SO16
1	U10	72-1483	IC, 74AC139, DUAL 2 TO 4 LINE DECODER, SO16, T&R	PT1174	U74AC139-S	SO16
1	U24	72-5435	IC 74AC32 QUAD 2-INPUT POS-OR SO14	PT1868	U74AC32-S	SO14
2	U22 U28	72-5425	IC, 74AC74, DUAL FLIP-FLOP, D-TYPE, SMT SO14	PT1247	U74AC74-S	SO14
1	U3	72-1404	IC, 74HC86, QUAD 2 - INPUT EXCLUSIVE OR, SO14	PT1491	U74HC86-S	SO14
1	U27	72-5437	IC 74VHC273 FLIP-FLOP OCTAL-D SO20W T&R	PT1909	U74VHC273-S	SO20W
1	U2	70-5004	IC, MC34064, UNDERVOLTAGE SENSING CIRCUIT, TO-226AA	PT1110	UMC34064P	TO226AA(RIG)-V
1	U23	72-4233	IC, NJM4560, DUAL OP-AMP, SO8	PT1134	UNJM4560-S	SO8
1	U6	72-3093-04V1	IC AT49F040-70JC 4 MEG FLASH EEPROM dbx480 DAUGHTER V1.00	PT1764	UP723093	PLCC/R-32
1	U4	72-4161	IC, CPU, Z180 MICROPROCESSOR, 20MHz, PLCC-68	PT1474	UZ180-20MHZ-L	PLCC-68
1	VR1	42-0221	POT, 50K, TRIM, HORIZONTAL MNT, VERT ADJUST, AMMO	PT1119	VR50K420221	VRTRIM1
1	X1	76-0321	XTAL, 20.000MHZ, METAL CAN, STANDARD PACKAGE	PT1431	Y20.000M700321	XTALV
1	Y1	OMIT	OMIT, OSC, 20.000 MHZ, DIP8, (00-0005)	PT1827	Y20.000M000005-O	OSC4300300



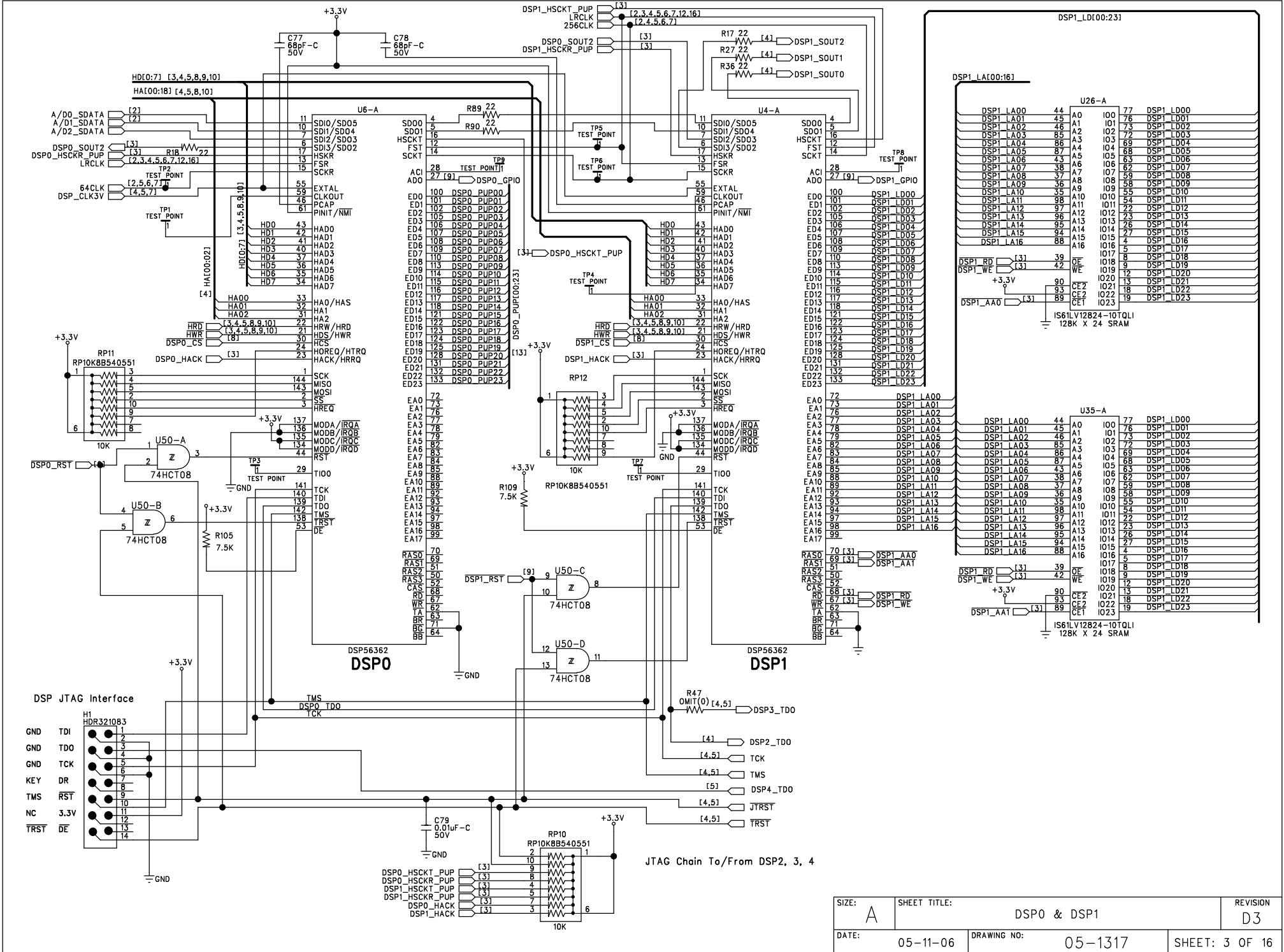


**A/D Test Jumper**



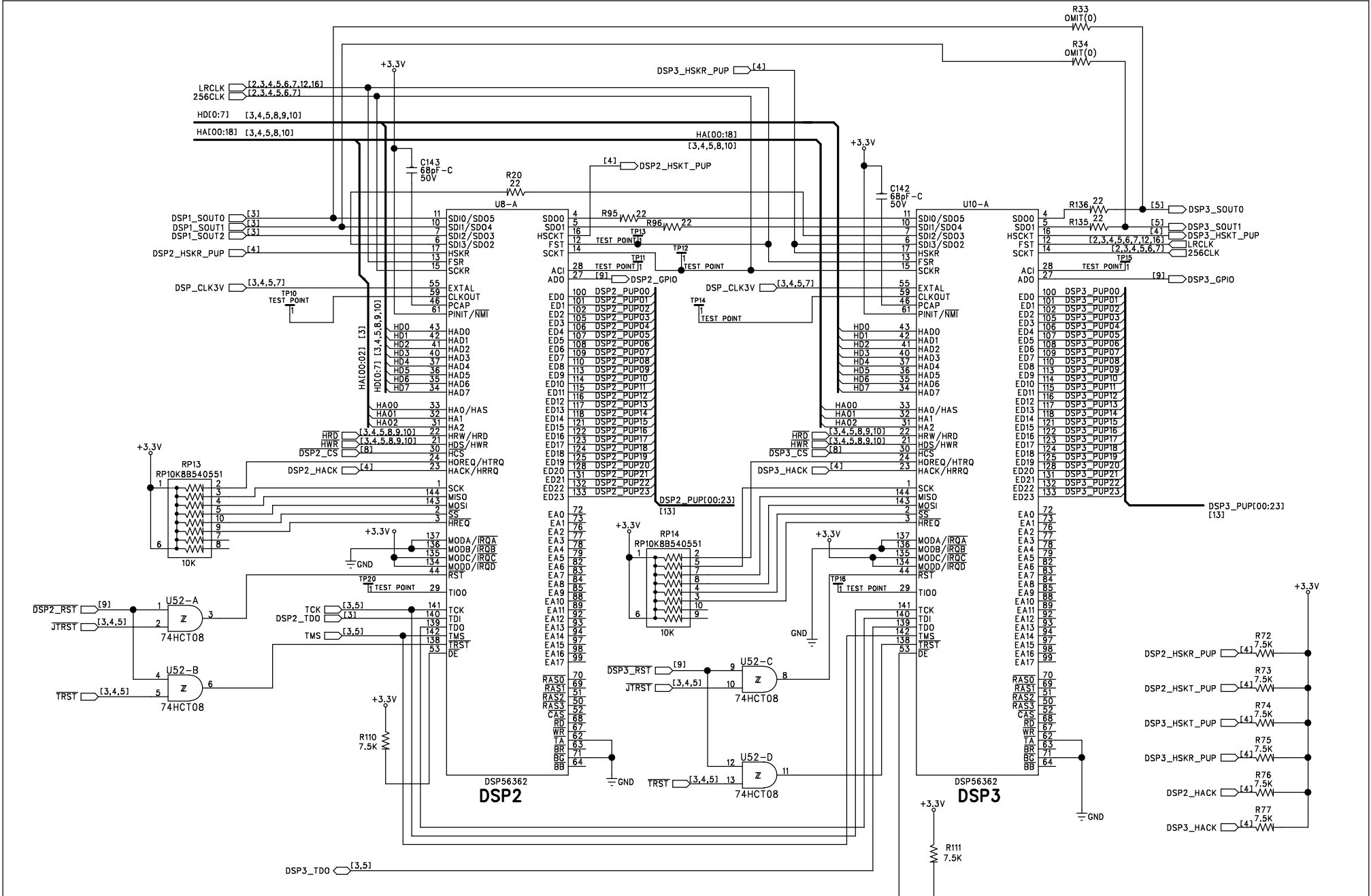
\*\* Place very close to the converter  
 \*LOCATE C21 AND C13 VERY CLOSE TO CONVERTER

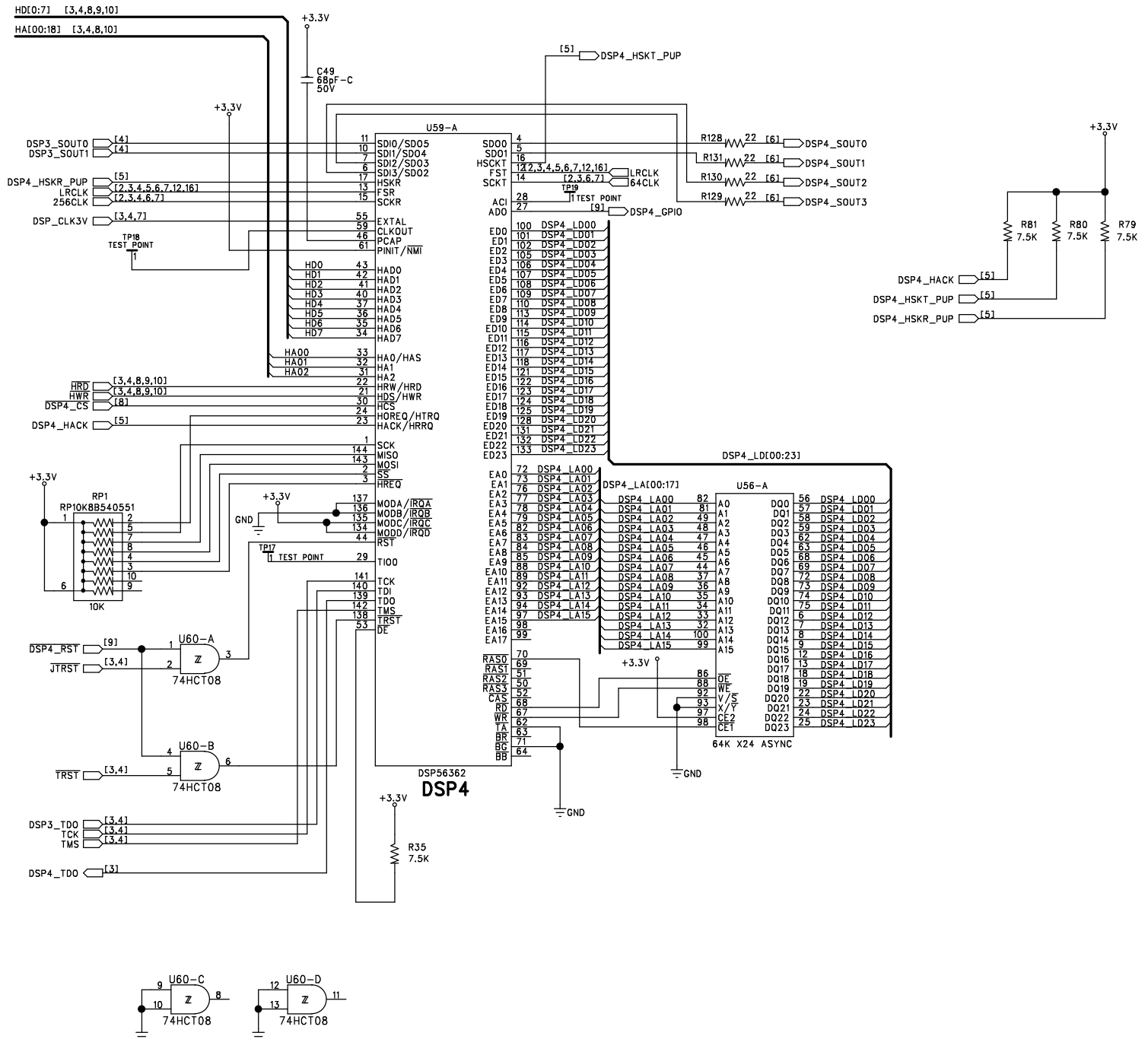
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DATE: 05-11-06	DRAWING NO: 05-1317	SHEET: 2 OF 16

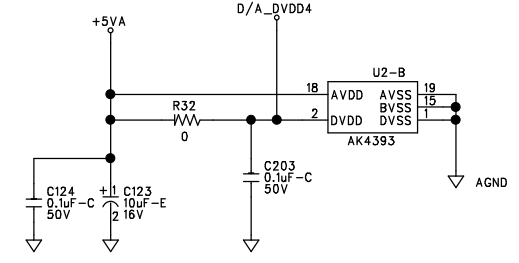
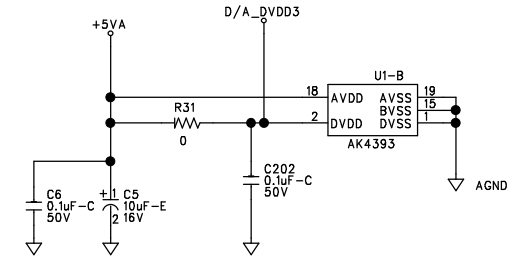
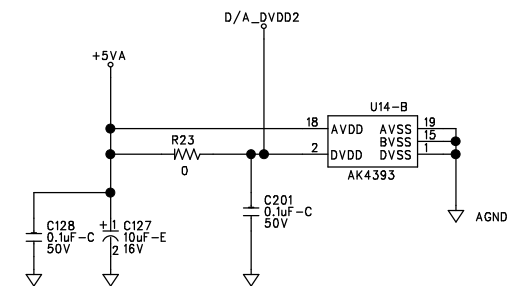
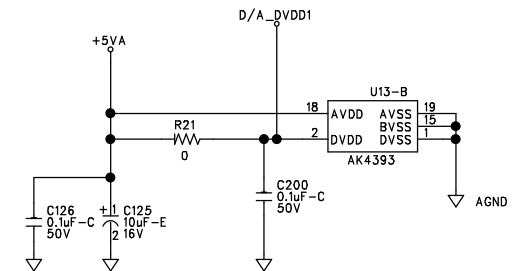
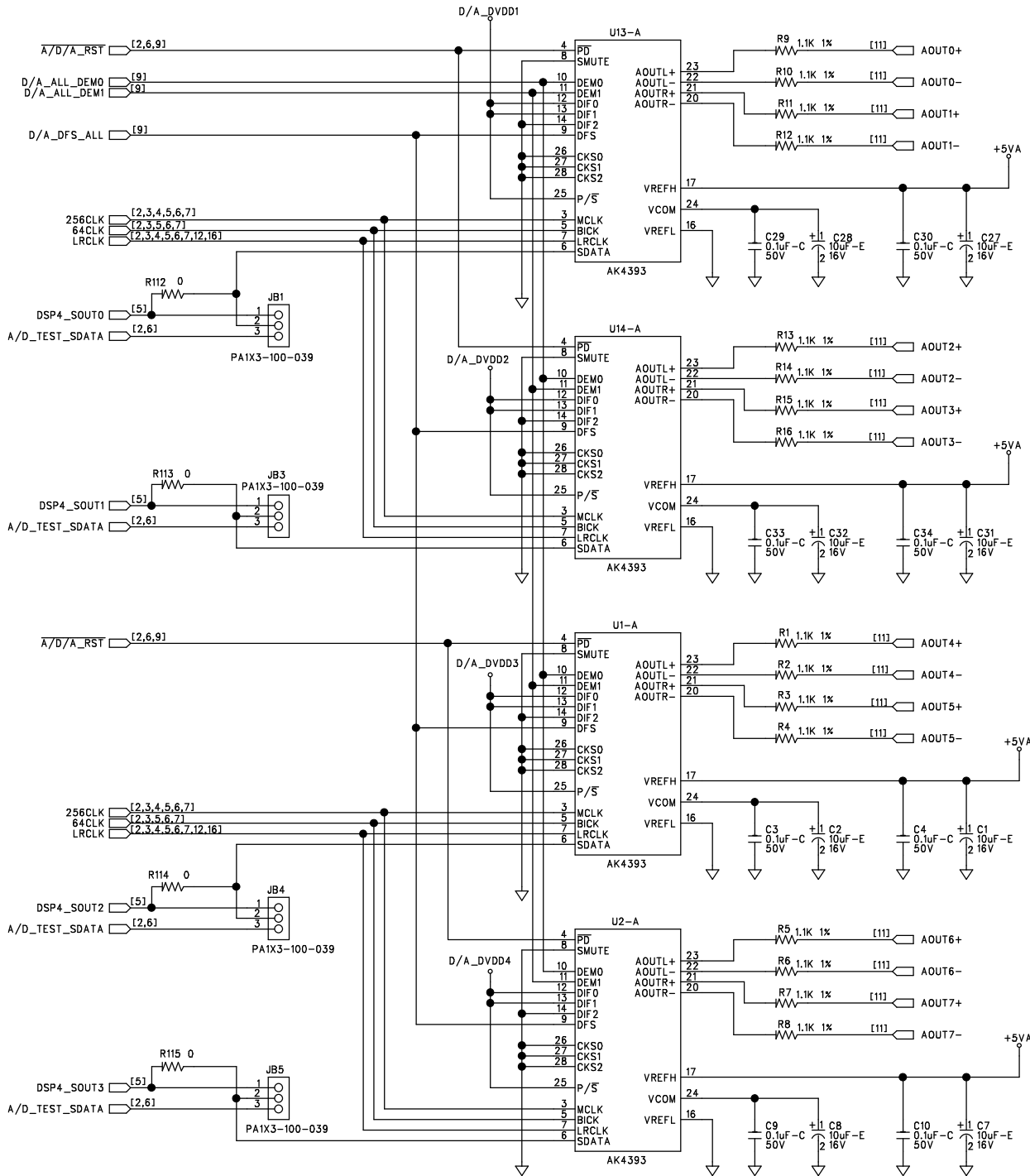


SIZE: A	SHEET TITLE: DSP0 & DSP1	REVISION: D3
DATE: 05-11-06	DRAWING NO: 05-1317	SHEET: 3 OF 16





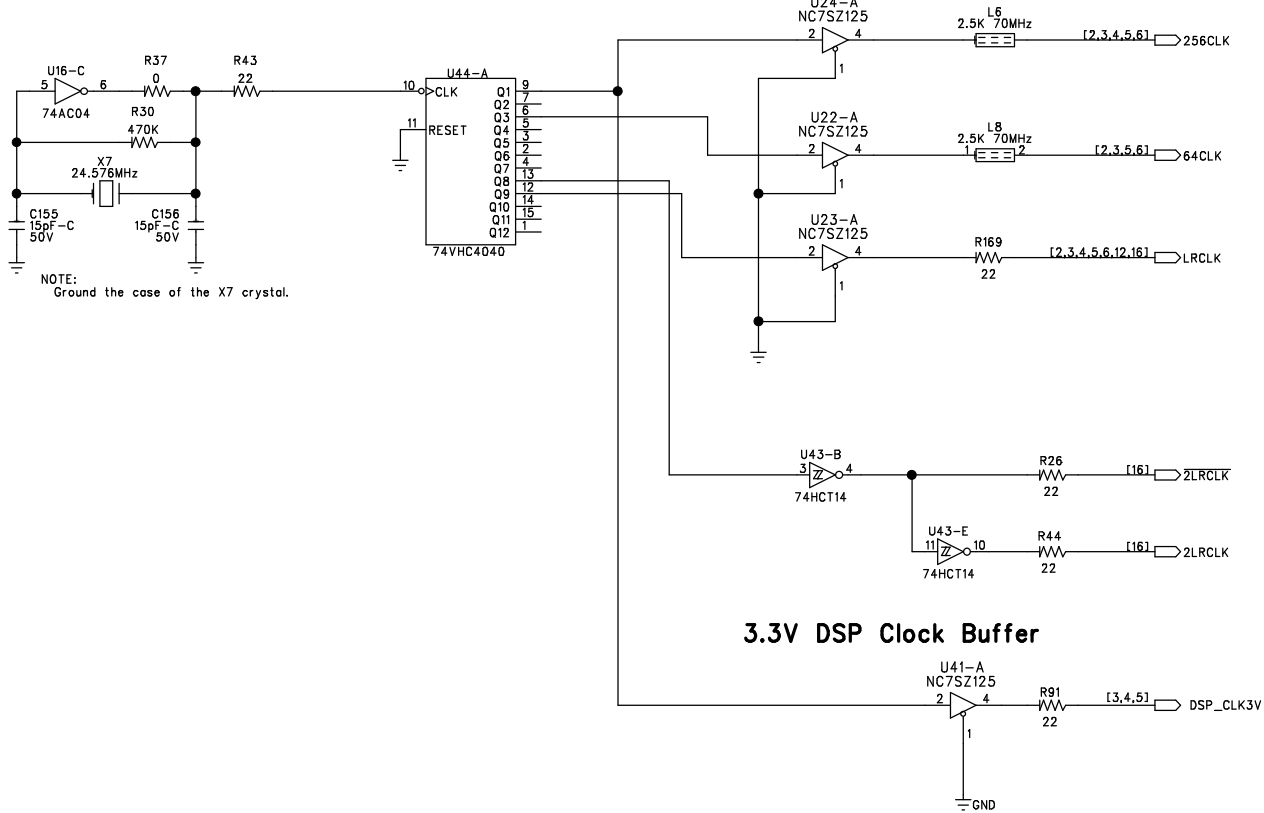




SIZE: A	SHEET TITLE: D/A CONVERTERS	REVISION: D3
DATE: 05-11-06	DRAWING NO: 05-1317	SHEET: 6 OF 16

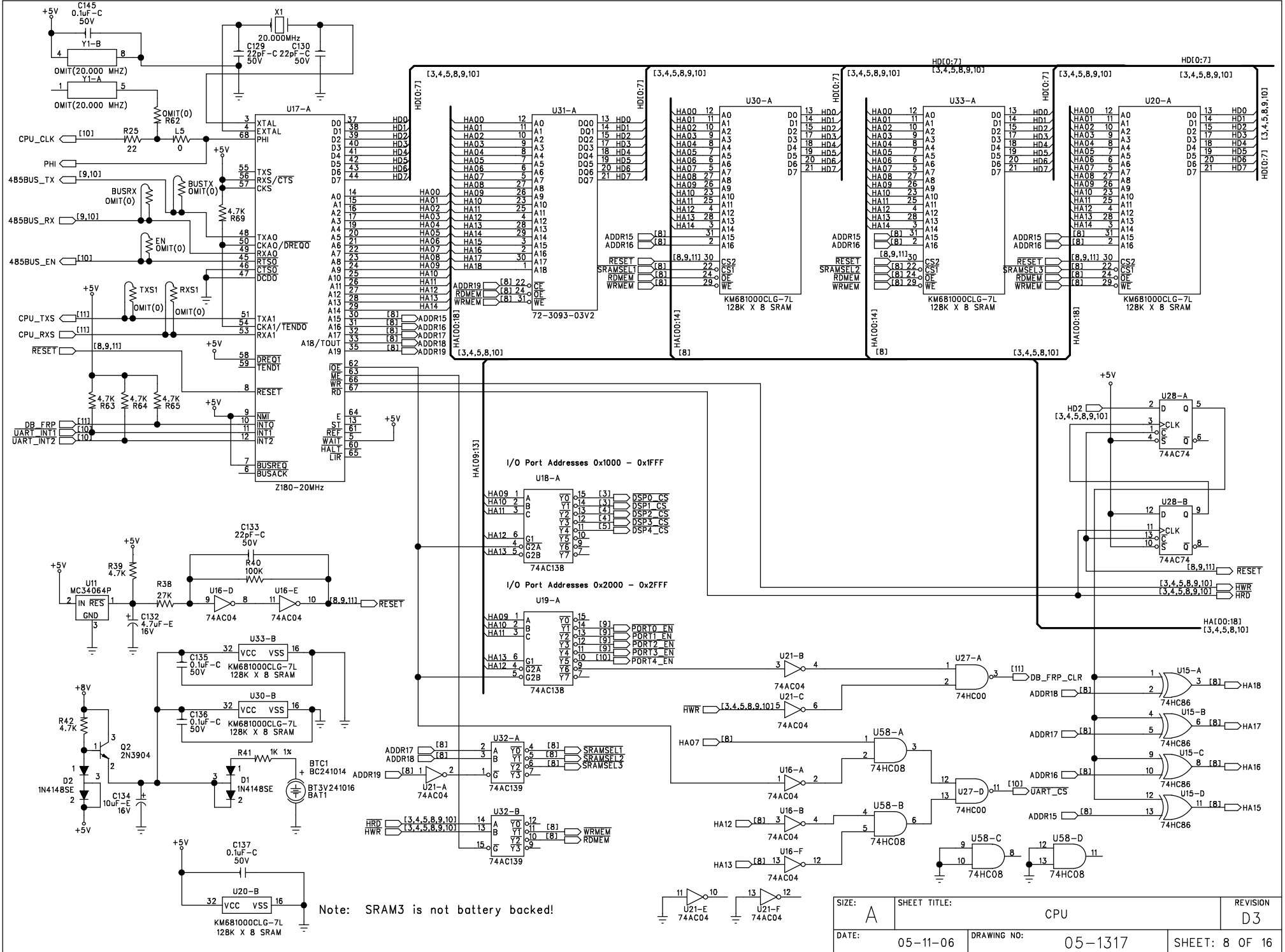
Divider/Clock Tree

512fs Crystal Oscillator



3.3V DSP Clock Buffer

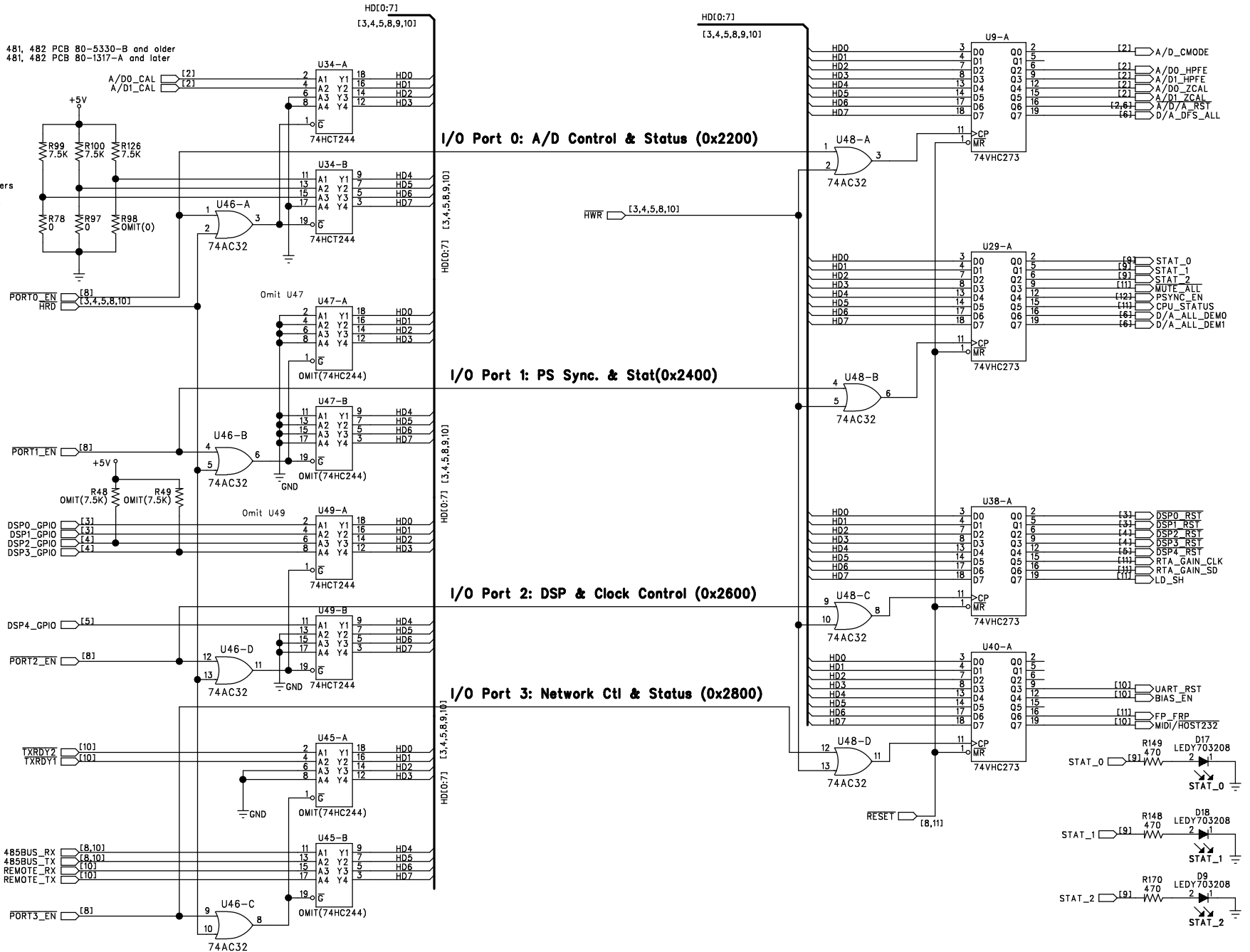
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DATE: 05-11-06	DRAWING NO: 05-1317	SHEET: 7 OF 16



SIZE: A	SHEET TITLE: CPU	REVISION: D3
DATE: 05-11-06	DRAWING NO: 05-1317	SHEET: 8 OF 16

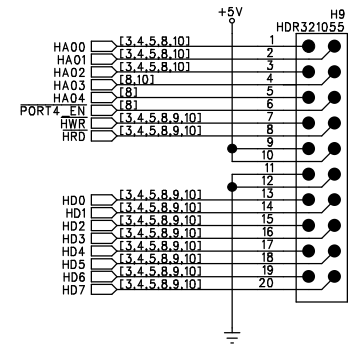
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0	0	1	dbx 480, 481, 482 PCB 80-1317-A and later
0	1	0	dbx 442
0	1	1	future
1	0	0	future
1	0	1	future
1	1	0	future
1	1	1	future

Product ID Jumpers  
See Table Above



SIZE: A	SHEET TITLE: CPU I/O PORTS	REVISION: D3
DATE: 05-11-06	DRAWING NO: 05-1317	SHEET: 9 OF 16

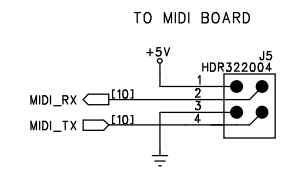
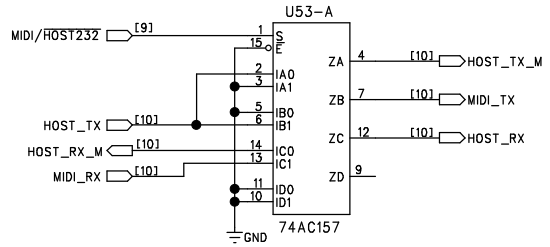
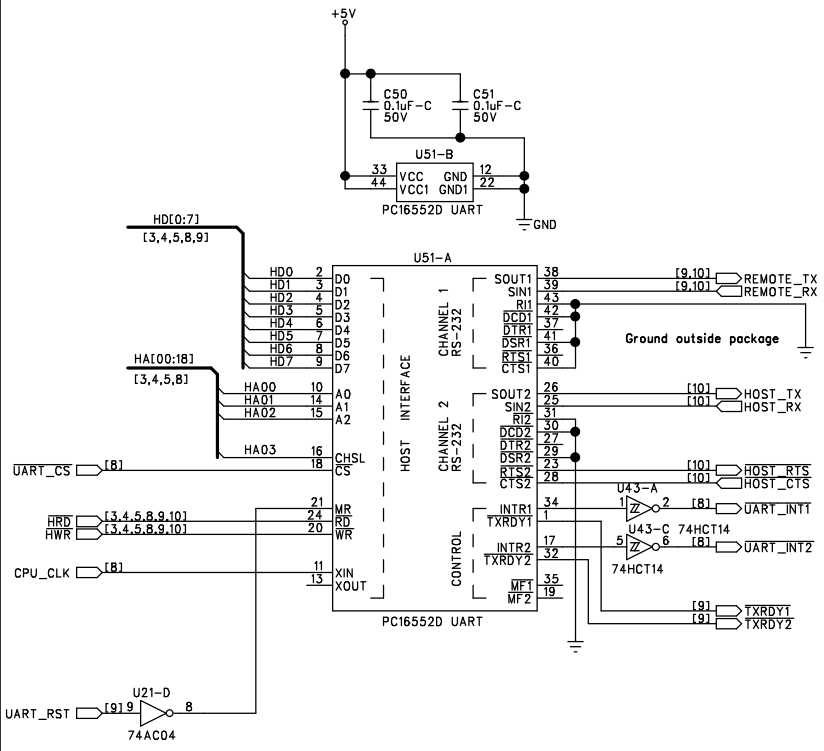
DIGITAL BOARD TO 481S/482S FRONT PANEL



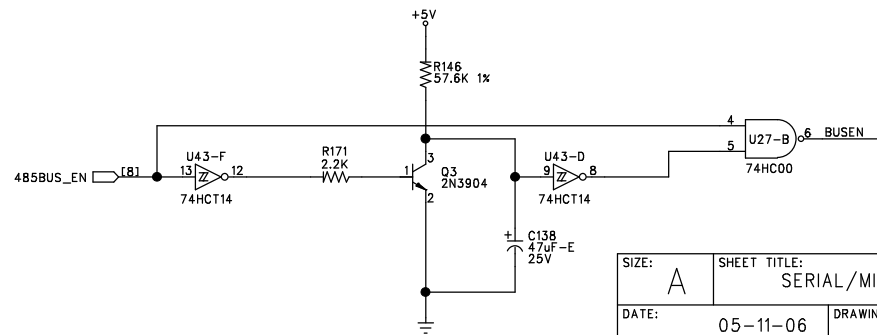
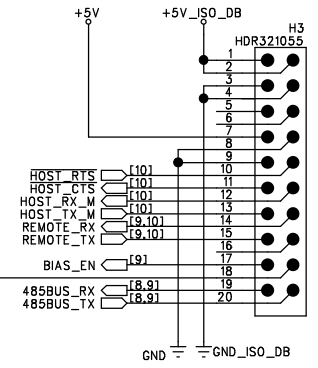
PLACE ON DIGITAL BOARD BELOW THE FRONT PANEL BOARD CONNECTOR

FP/GUI Table

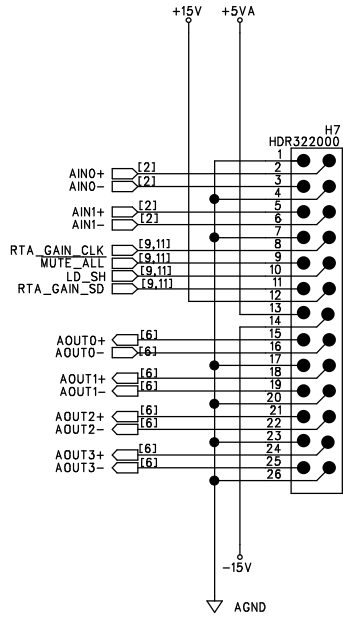
MIDI/HOST232#	Mode
0	GUI
1	MIDI



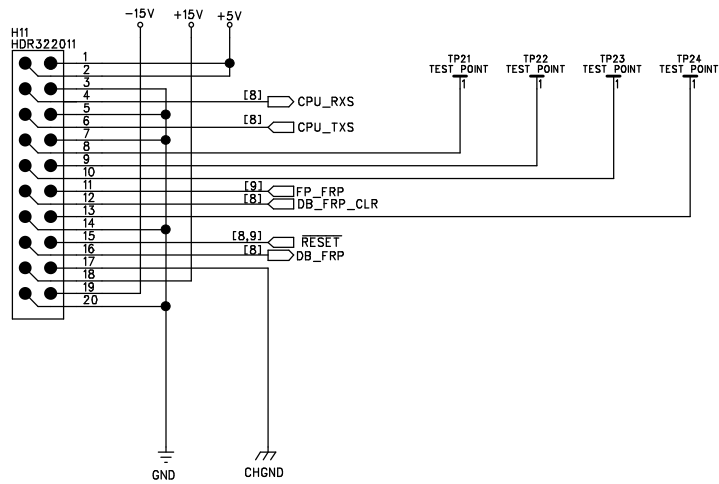
DIGITAL BOARD TO LOWER JACK CONNECTOR



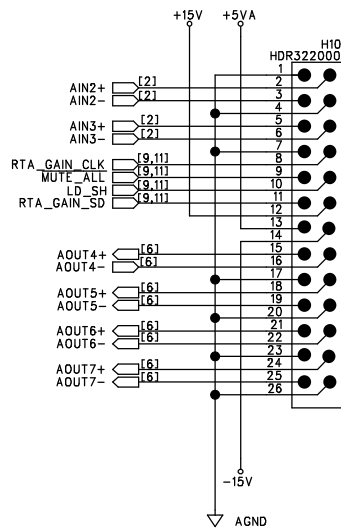
TO ANALOG TOP BOARD (INPUT 1, 2)



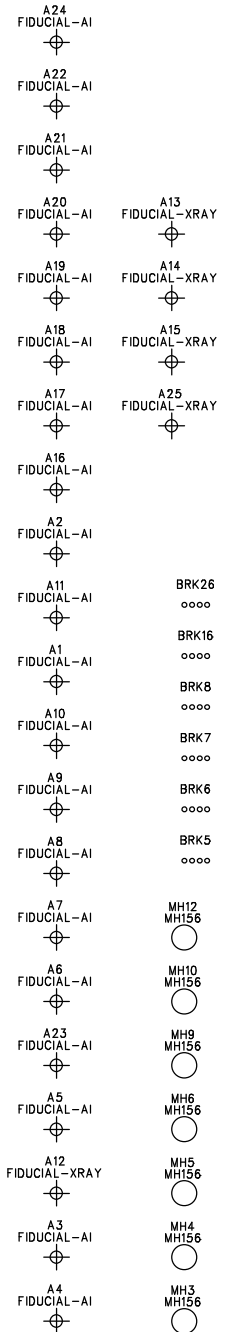
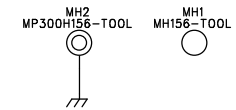
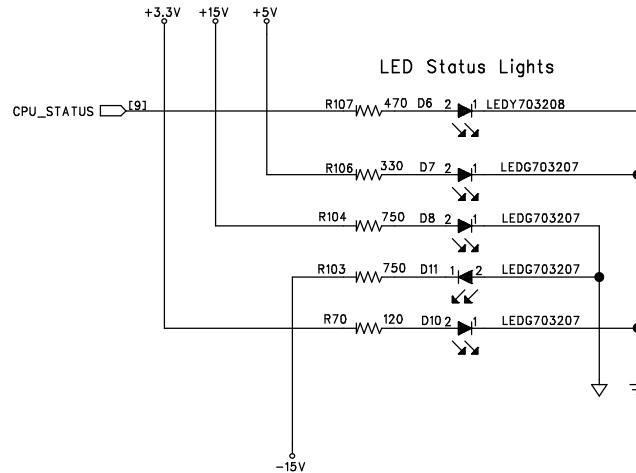
To/From 480 Front Panel



TO ANALOG BOTTOM BOARD (INPUT 3, 4)

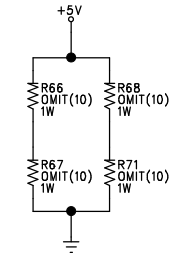
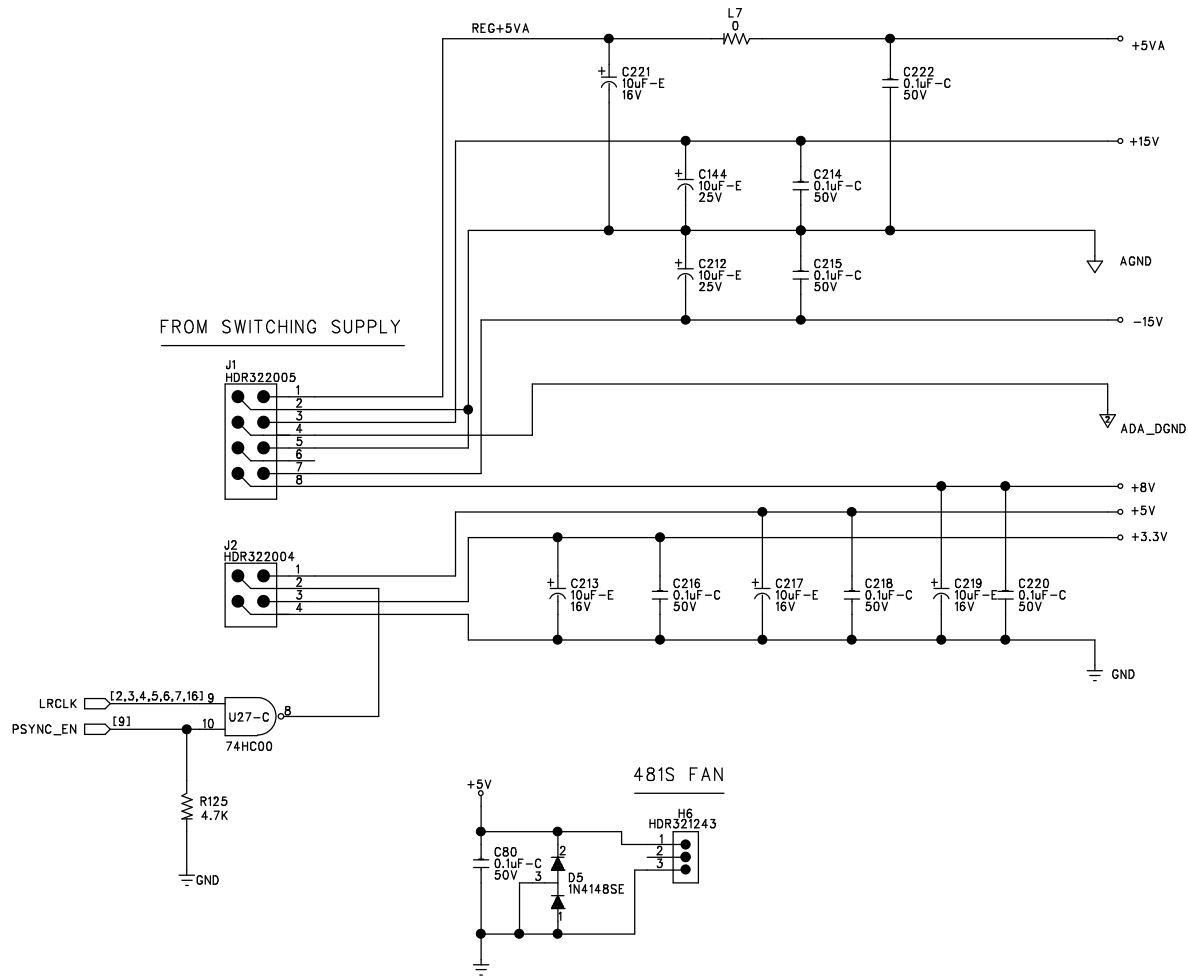


LED Status Lights

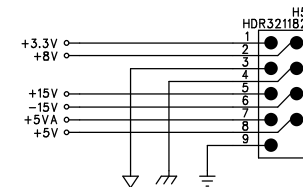


SIZE: A	SHEET TITLE: INTERBOARD I/O	REVISION: D3
DATE: 05-11-06	DRAWING NO: 05-1317	SHEET: 11 OF 16

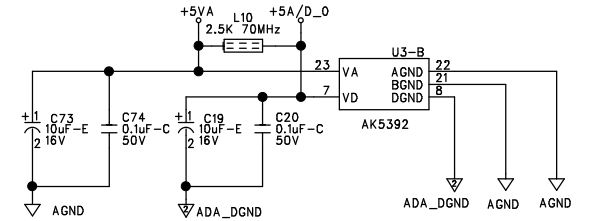
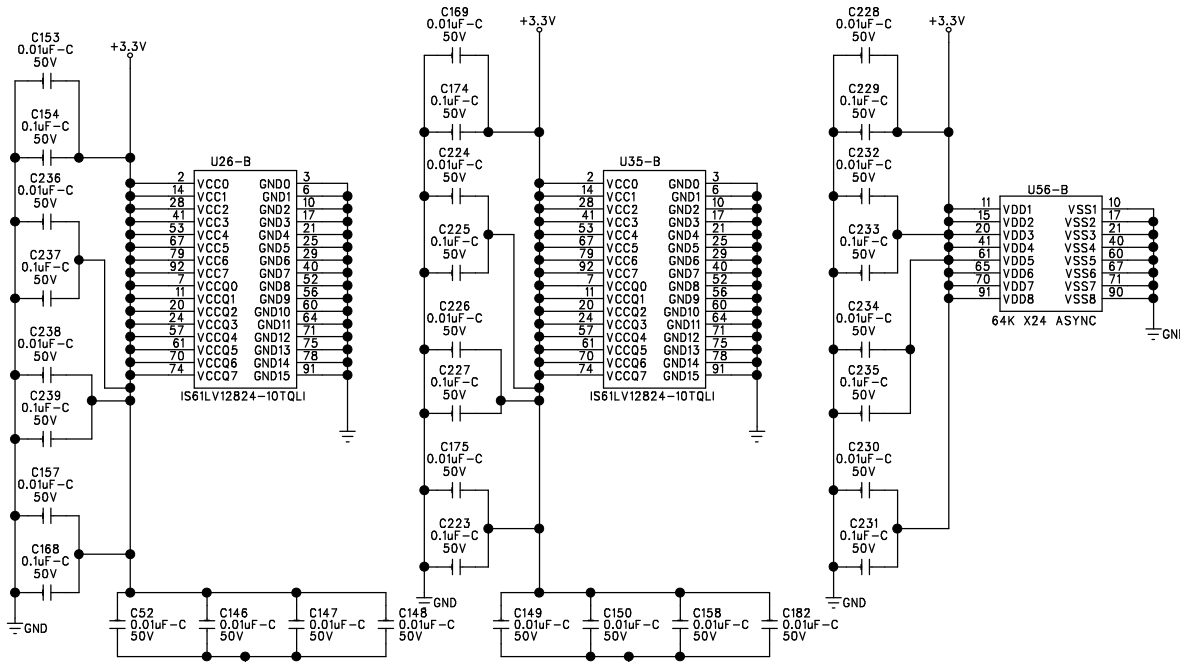




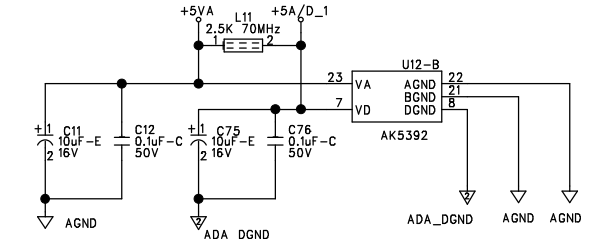
POWER SUPPLY TEST HEADER



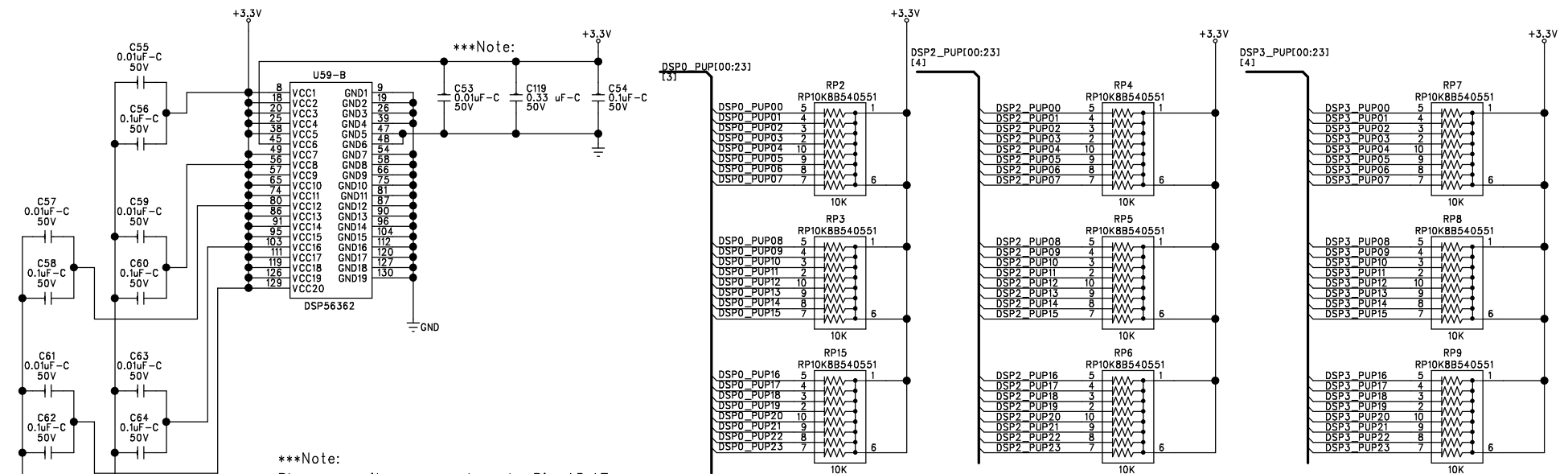
SIZE: A	SHEET TITLE: POWER SUPPLY	REVISION: D3
DATE: 05-11-06	DRAWING NO: 05-1317	SHEET: 12 OF 16



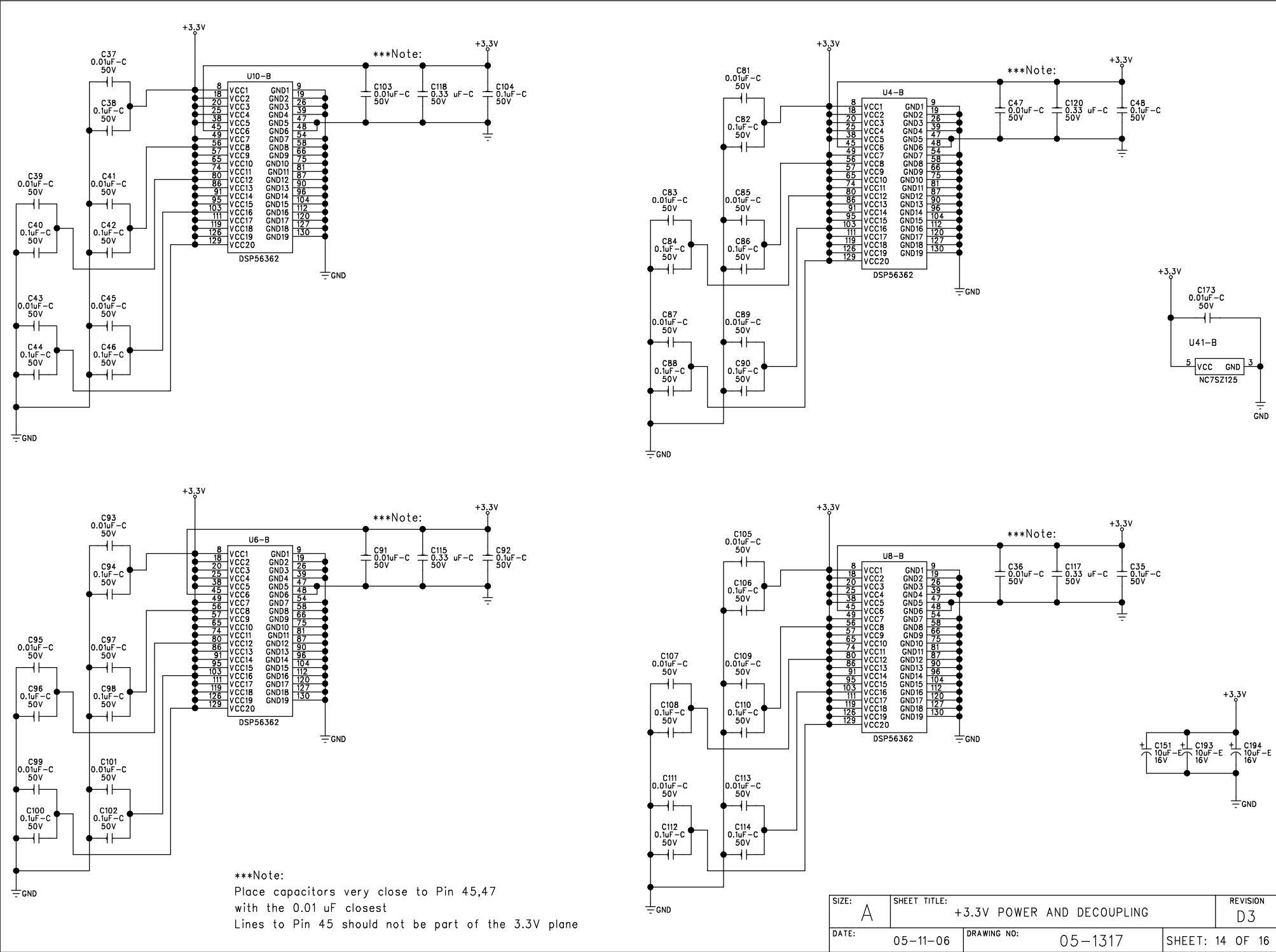
Place decoupling capacitors as close as possible to the pins indicated



Place decoupling capacitors as close as possible to the pins indicated

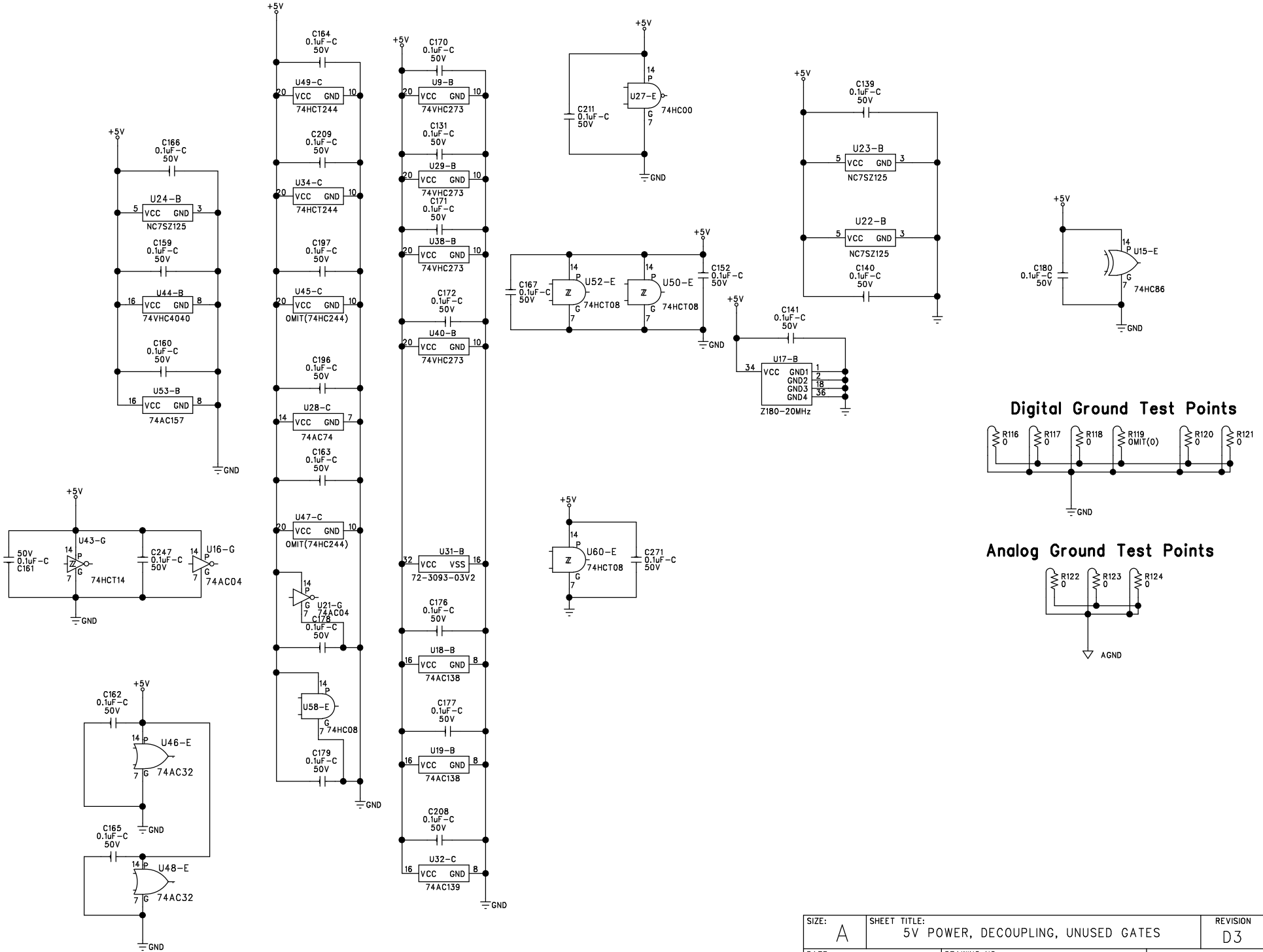


\*\*\*Note:  
Place capacitors very close to Pin 45,47  
with the 0.01 uF closest  
Lines to Pin 45 should not be part of the 3.3V plane

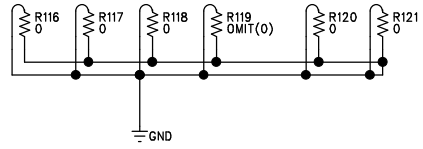


\*\*\*Note:  
Place capacitors very close to Pin 45,47  
with the 0.01 uF closest  
Lines to Pin 45 should not be part of the 3.3V plane

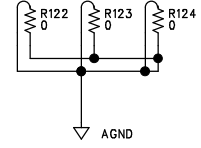
SIZE: A	SHEET TITLE: +3.3V POWER AND DECOUPLING	REVISION D3
DATE: 05-11-06	DRAWING NO: 05-1317	SHEET: 14 OF 16



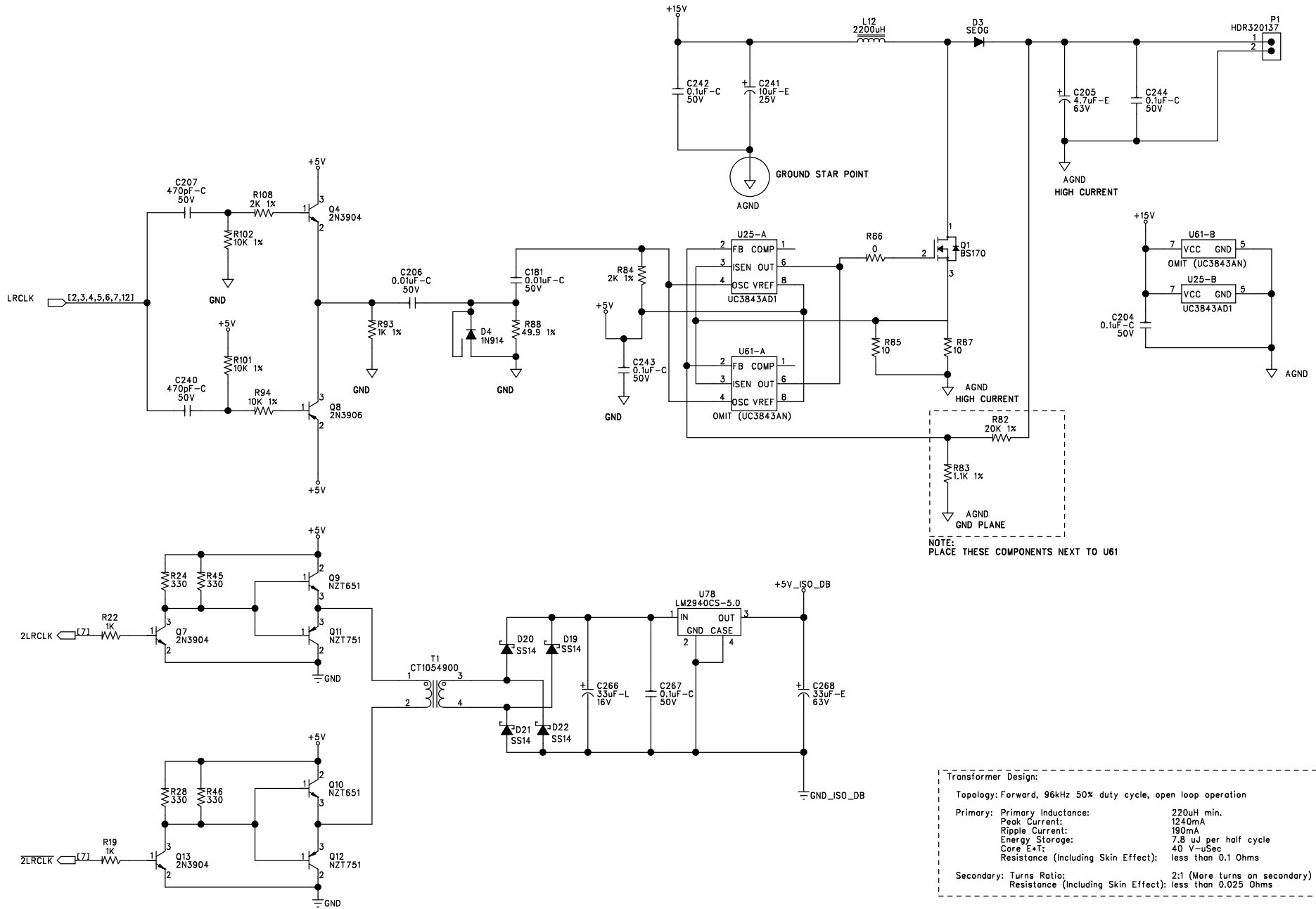
**Digital Ground Test Points**



**Analog Ground Test Points**



SIZE: A	SHEET TITLE: 5V POWER, DECOUPLING, UNUSED GATES	REVISION: D3
DATE: 05-11-06	DRAWING NO: 05-1317	SHEET: 15 OF 16



**Transformer Design:**

Topology: Forward, 96kHz 50% duty cycle, open loop operation

Primary: Primary Inductance: 220uH min.  
 Peak Current: 1240mA  
 Ripple Current: 190mA  
 Energy Storage: 7.8 uJ per half cycle  
 Core E\*I: 40 V-uSec  
 Resistance (including Skin Effect): less than 0.1 Ohms

Secondary: Turns Ratio: 2:1 (More turns on secondary)  
 Resistance (including Skin Effect): less than 0.025 Ohms

SIZE: A	SHEET TITLE: 48V AND ISOLATED POWER	REVISION: D3
DATE: 05-11-06	DRAWING NO: 05-1317	SHEET: 16 OF 16

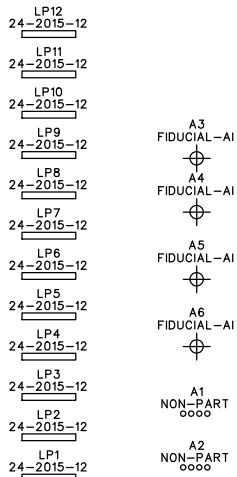
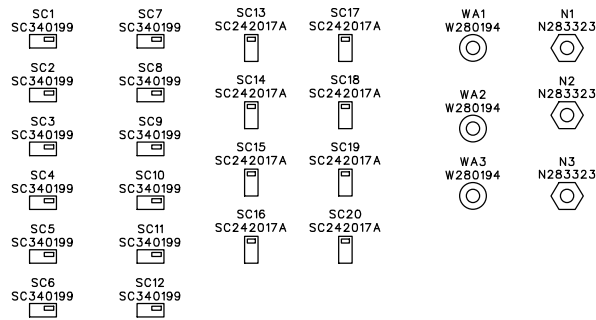
Bill Of Materials for 051317D3.sch on Thu May 11 13:10:13 2006

Qty	Reference	HMG#	Description	Audit	Schematic Part	PCB Decal
1	PCB1	80-1317	PCB 80-1317 dbx480, 481, 482, 442 DIGITAL BOARD	PT2044	80XXXXYY	BARCODE
1	BTC1	24-1014	BATTERY CLIP, 20mm DIA. X 3.2, HOLDS BUTTON STYLE BATTERIES, BULK	PT1328	BC241014	BCLIP1
6	BRK5-8 BRK16 BRK26	NON-PART	NON-PART, PCB ONLY, BREAKOFF PART	PT1481	BRKOFF	BRKOFF
1	BAT1	24-1016	BATTERY, 3V, LITHIUM, 20 X 3.2	PT1329	BT3V241016	BATTERY1
54	C36-37 C39 C41 C43 C45 C47 C52-53 C55 C57 C59 C61 C63 C79 C81 C83 C85 C87 C89 C91 C93 C95 C97 C99 C101 C103 C105 C107 C109 C111 C113 C146-150 C153 C157-158 C169 C173 C175 C181-182 C206 C224 C226 C228 C230 C232 C234 C236 C238	62-3142	CAP 0.01uF CER 50V 10% X7R 0805 TA	PT1118	C0.01UC50K0805	0805
117	C3-4 C6 C9-10 C12-16 C20-24 C29-30 C33-35 C38 C40 C42 C44 C46 C48 C50-51 C54 C56 C58 C60 C62 C64 C74 C76 C80 C82 C84 C86 C88 C90 C92 C94 C96 C98 C100 C102 C104 C106 C108 C110 C112 C114 C124 C126 C128 C131 C135-137 C139-141 C145 C152 C154 C159-168 C170-172 C174 C176-180 C196-197 C200-204 C208-209 C211 C214-216 C218 C220 C222-223 C225 C227 C229 C231 C233 C235 C237 C239 C242-244 C247 C267 C271	62-3139	CAP 0.1uF CER 50V 20% Y5V 0805 TA	PT1087	C0.1UC50M0805	0805
5	C115 C117-120	62-3210	CAP 0.33uF CER 50V 10% 1206 TA	PT1954	C0.33UC50K1206	1206
8	C67-68 C71-72 C255-256 C259-260	62-3136	CAP 1000pF CER 50V 20% X7R 0805 TA	PT1109	C1000PC50M0805	0805
1	C134	60-1063	CAP 10uF EL 16V 20% GP 4X5.5 SM TA	PT3218	C10UE16M4X5.5S	CAP4X5.4
27	C1-2 C5 C7-8 C11 C17-19 C25-28 C31-32 C73 C75 C123 C125 C127 C151 C193-194 C213 C217 C219 C221	60-0049-01	CAP 10uF EL 16V 20% GP 5x7R 5LS TA	PT1080	C10UE16MR	RED200P
3	C144 C212 C241	60-0403	CAP 10uF EL 25V 10% LL 5x11R 5LS TA	PT1208	C10UE25KR	REE200P
10	C65-66 C69-70 C155-156 C253-254 C257-258	62-3128	CAP 15pF CER 50V 5% COG 0805 TA	PT1106	C15PC50J0805	0805
3	C129-130 C133	62-3134	CAP, 22pF, CER, 50V, 5%, 0805, T&R	PT1107	C22PC50J0805	0805
1	C268	60-0324	CAP 33uF EL 63V 20% GP 6x11R 5LS TA	PT1436	C33UE63MR	REG200P
1	C266	60-0059-01	CAP 33uF EL 16V 20% LL 7x11R 5LS TA	PT1382	C33UL16MR	REG200P
1	C132	60-0048-01	CAP 4.7uF EL 16V 20% GP 5x7R 5LS TA	PT1294	C4.7UE16MR	REE200P
1	C205	60-0404	CAP 4.7uF EL 63V 20% LL 5x11R 5LS TA	PT1105	C4.7UE63MR	REE200P
2	C207 C240	62-3133	CAP 470pF CER 50V 10% X7R 0805 TA	PT1086	C470PC50K0805	0805
1	C138	60-0054-01	CAP 47uF EL 25V 20% GP 5x11R 5LS TA	PT2959	C47UE25MR1	REE200P

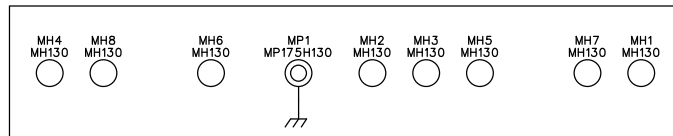
5	C49 C77-78 C142-143	62-3137	CAP, 68pF, CER, 50V, 5%, 0805, T&R	PT1285	C68PC50J0805	0805
3	D1-2 D5	70-0113	DIO, MMBD4148SE, DUAL DIODE, 75V, 600mA, SOT-23, T&R	PT1326	D1N4148SE-S	SOT-23
1	D4	70-0110	DIO, 1N914, HIGH-SPEED SWITCHING, SOT-23, T&R	PT1004	D1N914-S	SOT-23
1	D3	70-3601	RECTIFIER, 400V, 1.5 AMP, SMB, T&R	PT1466	DSEOG-S	DO-214AA/SMB
4	D19-22	70-0147	DIO SCHOTTKY 1A SS14 DO-214AC/SMA	PT1877	DSS14S	DO-214AC/SMA
20	A1-11 A16-24	NON-PART	NON-PART FIDUCIAL TARGET FOR AUTO INSERTION	PT2904	FIDUCIAL-AI	FIDUCIAL-AI
5	A12-15 A25	NON-PART	NON-PART FIDUCIAL TARGET FOR XRAY	PT2905	FIDUCIAL-XRAY	FIDUCIAL-XRAY
1	P1	32-0137	HDR 2 PN 0.098 SPC 2X1 SHR VRT MT	PT1854	HDR320137	HC21V98SP
2	H3 H9	32-1055	HDR, 20 PIN, 0.1" SPC, 2 X 10, VERT, MALE	PT1340	HDR321055	HC102
1	H1	32-1083	HDR, 14 PIN, 0.1" SPC, 2 X 7, VERT, MALE	PT1074	HDR321083	HC72
1	H5	32-1182	HDR, 9 PIN, 0.1" SPC, 1 X 5, PIN 10 MISSING, VERT, MALE	PT1120	HDR321182	HDR321182
1	H6	32-1243	HDR 3 PIN .098 SPC 3X1 SHROUDED VERTICAL MT.	PT1876	HDR321243	HC31V98SP
2	H7 H10	32-2000	HDR, 26 PIN, 0.1" SPC, 2 X 13, VERT, MALE	PT1298	HDR322000	HC132
2	J2 J5	32-2004	HDR, 4 PIN, 0.118" SPC, 2 X 2, LKG, SHD, POL, VERT, MALE	PT1461	HDR322004	HC22118LSPM
1	J1	32-2005	HDR 8 PIN .118" SPC 2X4 LKG SHR POL VRT	PT1462	HDR322005	HC24118LSPM
1	H11	32-2011	HDR 20 PIN .1 SPC 2X10 DUAL SHD VRT MALE	PT1955	HDR322011	HC102
1	LBL1	30-0121	LABEL BARCODE AUTOINSERTABLE RAW	PT2790	LABEL300121	LABEL300121
4	D7-8 D10-11	70-3207	LED GREEN D1206 T&R	PT1902	LEDG703207	D1206
4	D6 D9 D17-18	70-3208	LED YELLOW D1206 T&R	PT1900	LEDY703208	D1206
4	L6 L8 L10-11	26-0217	IND, FERRITE BEAD, 2.5K OHM @ 70MHz, 0805, T&R	PT1261	LFB260217	0805
1	L12	26-0192	IND 2200uH 0.05A TA	PT1889	LI260192	RIM200
11	MH3-6 MH9-10 MH12	NON-PART	NON-PART MOUNTING HOLE 0.156" NON-PLATED #6	PT3000	MH156	MH156
	MH16-19					
1	MH1	NON-PART	NON-PART TOOLING PIN HOLE 156MIL HOLE	PT2794	MH156-TOOL	MH156-TOOL
1	MH2	NON-PART	NON-PART, TOOLING PIN HOLE, PLATED, 156MIL HOLE, 300MIL PAD	PT1417	MP300H156-TOOL	MP300H156-TOOL
5	JB1-5	NON-PART	NON-PART PAD ARRAY 3PIN .1 SPC .039 HOLE	PT2030	PA1X3-100-039	PA1X3-100-039
5	Q2-4 Q7 Q13	70-1058	XSTR, 2N3904, NPN, SOT-23, T&R	PT1203	Q2N3904-S	SOT-23
1	Q8	70-1059	XSTR 2N3906 PNP SOT-23 SM TA	PT1057	Q2N3906-S	SOT-23
1	Q1	70-1071	XSTR BS170 MFET N-CHANNEL TO92(DGS) AMMO	PT1885	QBS170	TO92(DGS)-V
2	Q9-10	70-3196	XSTR NZT651 NPN SOT223	PT1880	QNZT651-S	SOT223
2	Q11-12	70-3197	XSTR NZT751 PNP SOT223	PT1879	QNZT751-S	SOT223
14	L5 L7 R21 R23	50-1531	RES 0 5% 1/10W SM 0805 TA	PT1099	R0-C5-0805	0805
	R31-32 R37 R78 R86					
	R97 R112-115					
5	R33-34 R47 R62 R98	OMIT	OMIT RES 0 5% 1/10W SM 0805 TA (50-1531)	PT1006	R0-C5-0805O	0805
8	R116-118 R120-124	50-0317	RES 0 5% 1/4W CF RR TA	PT1008	R0-E5-R	RRA200
6	BTC1 BTC1 D22 R119	OMIT	OMIT RES 0 5% 1/4W CF RR TA (50-0317)	PT1596	R0-E5-RO	RRA200
	RXS1 TXS1					
17	R1-16 R83	52-3248	RES 1.1K 1% 1/10W SM 0805 TA	PT1700	R1.1KC1-0805	0805
1	R40	50-1504	RES 100K 5% 1/10W SM 0805 TA	PT1096	R100KC5-0805	0805
2	R85 R87	50-1500	RES 10 5% 1/10W SM 0805 TA	PT1309	R10-C5-0805	0805
4	R66-68 R71	OMIT	OMIT RES 10 5% 1W SM 2512 TA (50-0057)	PT2679	R10-G5-2512O	2512
3	R94 R101-102	52-4500	RES 10K 1% 1/10W SM 0805 TA	PT1034	R10KC1-0805	0805
1	R70	50-1534	RES 120 5% 1/10W SM 0805 TA	PT1367	R120-C5-0805	0805
2	R41 R93	52-4505	RES 1K 1% 1/10W SM 0805 TA	PT1037	R1KC1-0805	0805
2	R19 R22	50-1505	RES 1K 5% 1/10W SM 0805 TA	PT1010	R1KC5-0805	0805
1	R171	50-1529	RES 2.2K 5% 1/10W SM 0805 TA	PT1127	R2.2KC5-0805	0805
1	R82	52-4501	RES 20K 1% 1/10W SM 0805 TA	PT1035	R20KC1-0805	0805
23	R17-18 R20 R25-27	50-1532	RES 22 5% 1/10W SM 0805 TA	PT1030	R22-C5-0805	0805
	R29 R36 R43-44					
	R89-92 R95-96					
	R128-131 R135-136					
	R169					
1	R38	50-1527	RES 27K 5% 1/10W SM 0805 TA	PT1027	R27KC5-0805	0805
2	R84 R108	52-4506	RES 2K 1% 1/10W SM 0805 TA	PT1038	R2KC1-0805	0805
5	R24 R28 R45-46 R106	50-1517	RES 330 5% 1/10W SM 0805 TA	PT1020	R330-C5-0805	0805
7	R39 R42 R63-65 R69	50-1509	RES 4.7K 5% 1/10W SM 0805 TA	PT1012	R4.7KC5-0805	0805
	R125					
4	R107 R148-149 R170	50-1518	RES 470 5% 1/10W SM 0805 TA	PT1021	R470-C5-0805	0805
1	R30	50-1523	RES 470K 5% 1/10W SM 0805 TA	PT1025	R470KC5-0805	0805
1	R88	52-4502	RES 49.9 1% 1/10W SM 0805 TA	PT1036	R49.9-C1-0805	0805
12	R50-61	52-4504	RES 499 1% 1/10W SM 0805 TA	PT1102	R499-C1-0805	0805
1	R146	52-4514	RES 57.6K 1% 1/10W SM 0805 TA	PT1042	R57.6KC1-0805	0805

17	R35 R72-77 R79-81 R99-100 R105 R109-111 R126	50-1521	RES 7.5K 5% 1/10W SM 0805 TA	PT1024 R7.5KC5-0805	0805
2	R48-49	OMIT	OMIT RES 7.5K 5% 1/10W SM 0805 TA (50-1521)	PT1338 R7.5KC5-0805O	0805
2	R103-104	50-1530	RES 750 5% 1/10W SM 0805 TA	PT1029 R750-C5-0805	0805
15	RP1-15	54-0551	RESNET 10K 5% 62.5mW BUS(1,6) 8E SM TA	PT1509 RP10K8B540551	RP1608
24	TP1-24	NON-PART	NON-PART, TEST POINT, ENGINEERING PROBE POINT	PT1653 TESTPOINT	TESTPOINTSM
1	T1	26-0249	XFMR TOROID 5V/5V 100kHz 3VA SM	PT3283 TR260249	XFR-3
2	U26 U35	72-0209	IC 128K x 24 STATIC RAM 10ns 3.3V QFP100-14X20	DB406 U128K24S10-3.3-Q	QFP100-14X20
3	U20 U30 U33	72-5417	IC, 128K X 8, STATIC RAM, 70ns, SOP32	PT1333 U128K8S70-P	SOP32
1	U56	72-1442	IC, SRAM, 64K x 24 ASYNCHRONOUS, 12ns, +3.3V, CMOS, TQFP100	PT1494 U64K24S12-Q	QFP100-14X20
2	U16 U21	72-5426	IC, 74AC04, HEX INVERTER, SO14, T&R	PT1325 U74AC04-S	SO14
2	U18-19	72-1452	IC, 74AC138, 1-OF-8 DECODER/DEMULTIPLEXER, SO16	PT1420 U74AC138-S	SO16
1	U32	72-1483	IC, 74AC139, DUAL 2 TO 4 LINE DECODER, SO16, T&R	PT1174 U74AC139-S	SO16
1	U53	72-5423	IC, 74AC157, QUAD 2-INPUT MULTIPLEXER, SO16	PT1246 U74AC157-S	SO16
2	U46 U48	72-5435	IC 74AC32 QUAD 2-INPUT POS-OR SO14	PT1868 U74AC32-S	SO14
1	U28	72-5425	IC, 74AC74, DUAL FLIP-FLOP, D-TYPE, SMT SO14	PT1247 U74AC74-S	SO14
1	U27	72-5418	IC, 74HC00, QUAD 2-INPUT NAND, SO14, T&R	PT1348 U74HC00-S	SO14
1	U58	72-1441	IC, 74HC08, QUAD 2-INPUT POS-AND, SO14	PT1421 U74HC08-S	SO14
2	U45 U47	OMIT	OMIT, IC, 74HC244, OCT BUF LNE DVR, 3-STATE OUT, SO20W, T&R, (72-1111 )	PT1573 U74HC244-SO	SO20W
1	U15	72-1404	IC, 74HC86, QUAD 2 - INPUT EXCLUSIVE OR, SO14	PT1491 U74HC86-S	SO14
3	U50 U52 U60	72-1268	IC 74HCT08 QUAD 2-INPUTAND SMITT SO14	PT2418 U74HCT08-S	SO14
1	U43	72-1401	IC, 74HCT14, HEX SCHMITT TRIGGER INVERTER, SO14	PT1356 U74HCT14-S	SO14
2	U34 U49	72-1487	IC 74HCT244 OCTAL BUFFER W/3-STATE SMITT SO20W TA	PT2417 U74HCT244-S	SO20W
4	U9 U29 U38 U40	72-5437	IC 74VHC273 FLIP-FLOP OCTAL-D SO20W T&R	PT1909 U74VHC273-S	SO20W
1	U44	72-0044	IC 74VHC4040 12 BIT RIPPLE COUNTER SO16	PT2759 U74VHC4040-S	SO16
4	U1-2 U13-14	72-1484	IC, AK4393, DAC, 24 BIT, 96 KHz, 115dB DR, VSOP28	PT1504 UAK4393-V	VSOP28
2	U3 U12	72-1464	IC, AK5392, DUAL 24BIT ADC, SO28W	PT1555 UAK5392-S	SO28W
5	U4 U6 U8 U10 U59	72-1466	IC, DSP56362, DSP PROCESSOR, QFP144-20X20	PT1316 UDSP56362-Q	QFP144-20X20
1	U78	70-4144	V-REG LM2940CS-5.0 5V 1A TO-263	PT1878 ULM2940CS-5-S	TO-263
1	U11	70-5004	IC, MC34064, UNDERVOLTAGE SENSING CIRCUIT, TO-226AA	PT1110 UMC34064P	TO226AA(RIG)-V
4	U22-24 U41	72-5434	IC NC7SZ125 TINYLOGIC BUFFER SOT23-5 TA	PT1881 UNC7SZ125-S	SOT23-5
1	U31	72-3093-03V2	IC AT49F040-70JC 4 MEG FLASH EEPROM DRIVERACK 480 V2	PT1764 UP723093	PLCC/R-32
1	U51	72-5518	IC PC16552D DUAL UART PLCC-44	PT1882 UPC16552D-L	PLCC-44
1	U25	72-5535	IC UC3843AD1 CURRENT MODE CNTLR SO8	PT1993 UUC3843AD1-S	SO8
1	U61	OMIT	OMIT IC UC3843AN CURRENT MODE CNTLR DIP8-300 (72-5525)	PT2831 UUC3843AN-D-O	DIP8-300
1	U17	72-4161	IC, CPU, Z180 MICROPROCESSOR, 20MHz, PLCC-68	PT1474 UZ180-20MHZ-L	PLCC-68
1	Y1	OMIT	OMIT OSC 20.000 MHZ DIP8 (00-0005)	PT1827 Y20.000M000005-O	OSC4300300
1	X1	76-0321	XTAL, 20.000MHz, METAL CAN, STANDARD PACKAGE	PT1431 Y20.000M700321	XTALV
1	X7	76-0315	XTAL, 24.576MHz, 18pF, LOW PROFILE, HC-49, T&R	PT1478 Y24.576M760315	XTALV





STANDOFF MOUNTING HOLES



LBL1  
30-0121

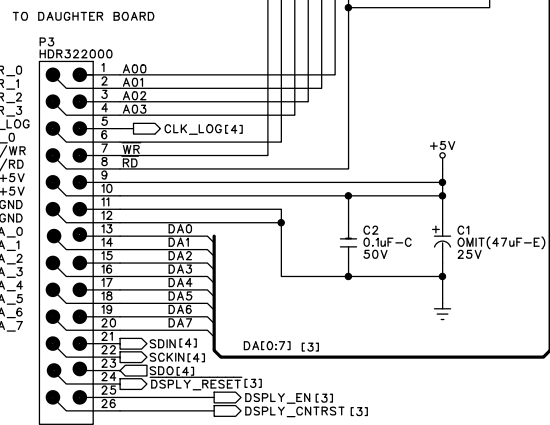
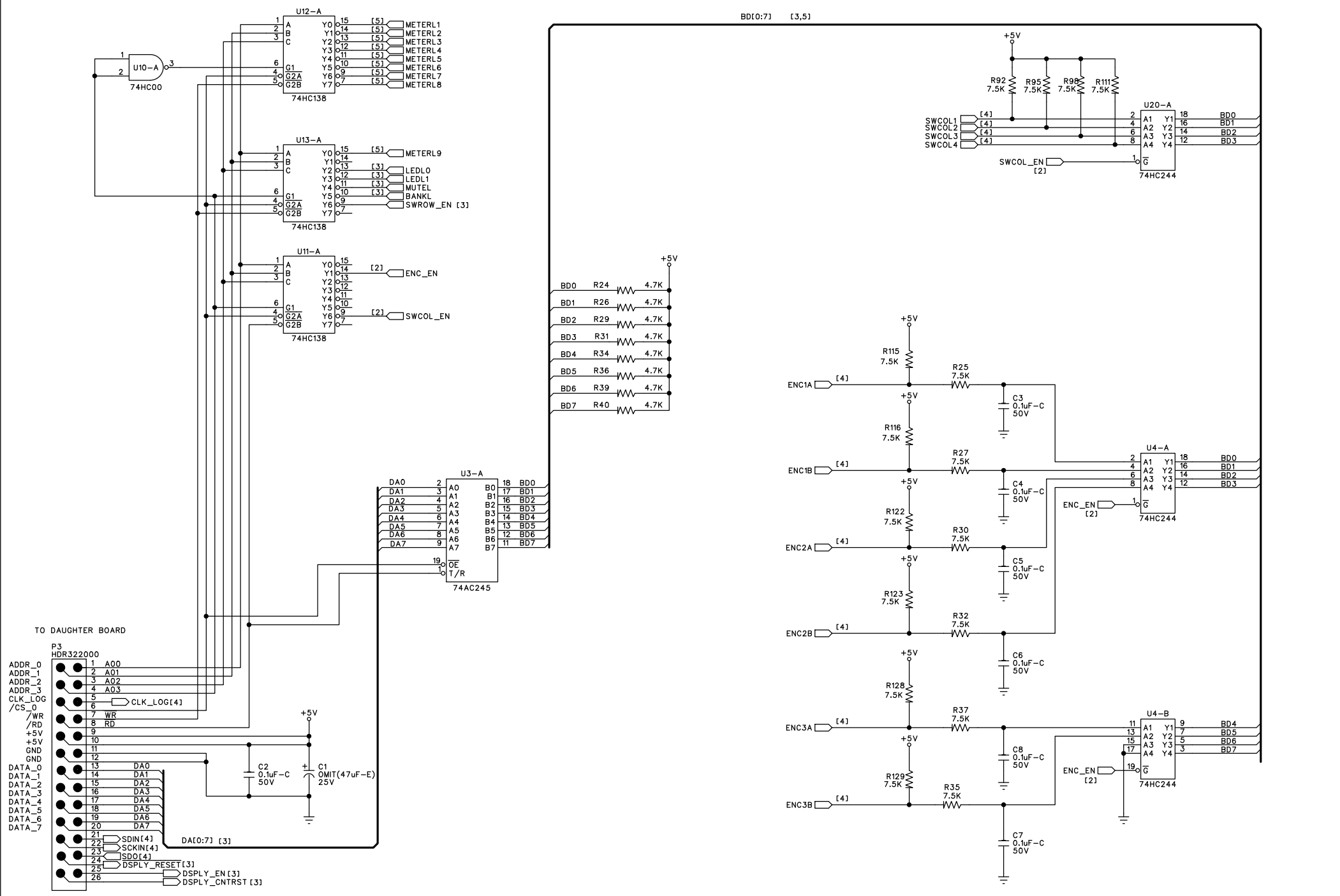
PCB1  
80-5331

REV	DESCRIPTION	ECN #	INIT	DATE
B2	UPDATE PART NUMBER FOR SWITCH CAP 34-0199.	37217	MTB	7-15-09
B1	OMIT P1, ADD LBL1 TO ASSEMBLY, UPDATE PCB1	2164	DWB	8-21-02
B0	MODIFICATON TO MASKING FILES	XXXX	MRC	5-17-00
A0	PROTOTYPE	XXXX	MRC	3-22-00

REVISION HISTORY

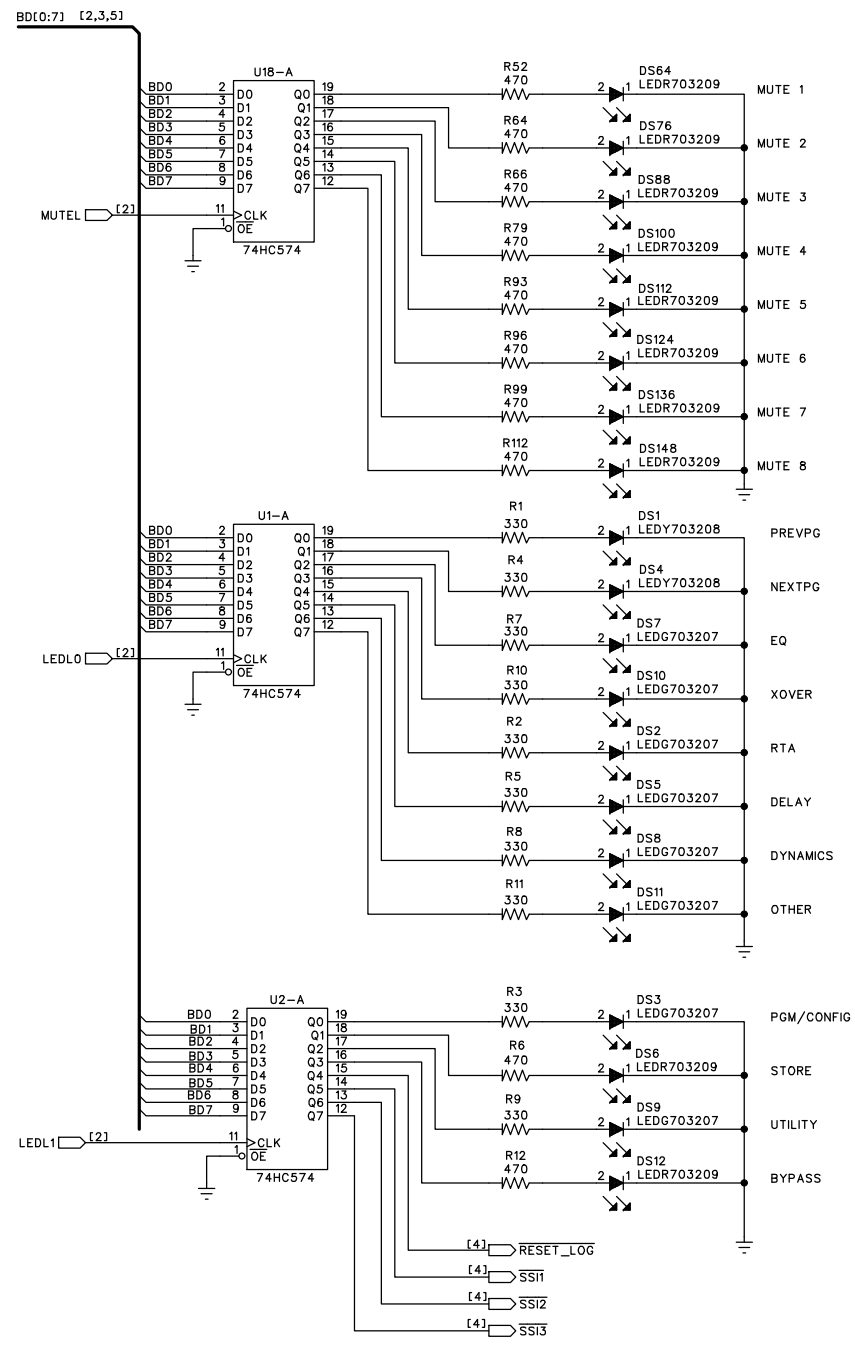
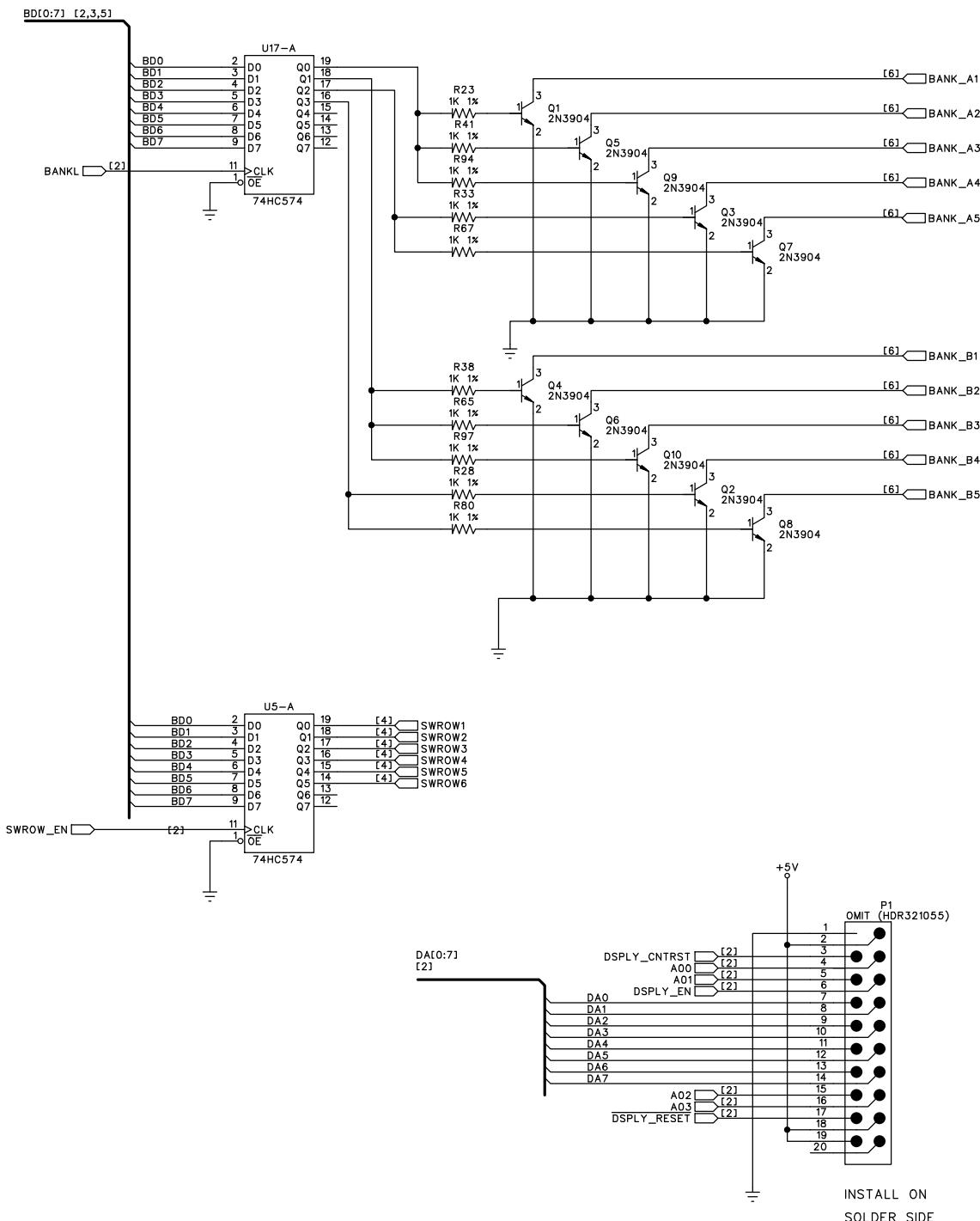
dbx Professional Products  
8760 South Sandy Parkway Sandy Utah 84070

TITLE: DRIVE RACK 480 FRONT PANEL BOARD				
DESIGNER: DAVID BYBEE		ENGINEER: DAN BURDETTE		
SIZE: A	DRAWING NO: 05-5331		REVISION B2	
DATE: 7-15-09	FILENAME: 055331B2.SCH	SHEET: 1 OF 7		

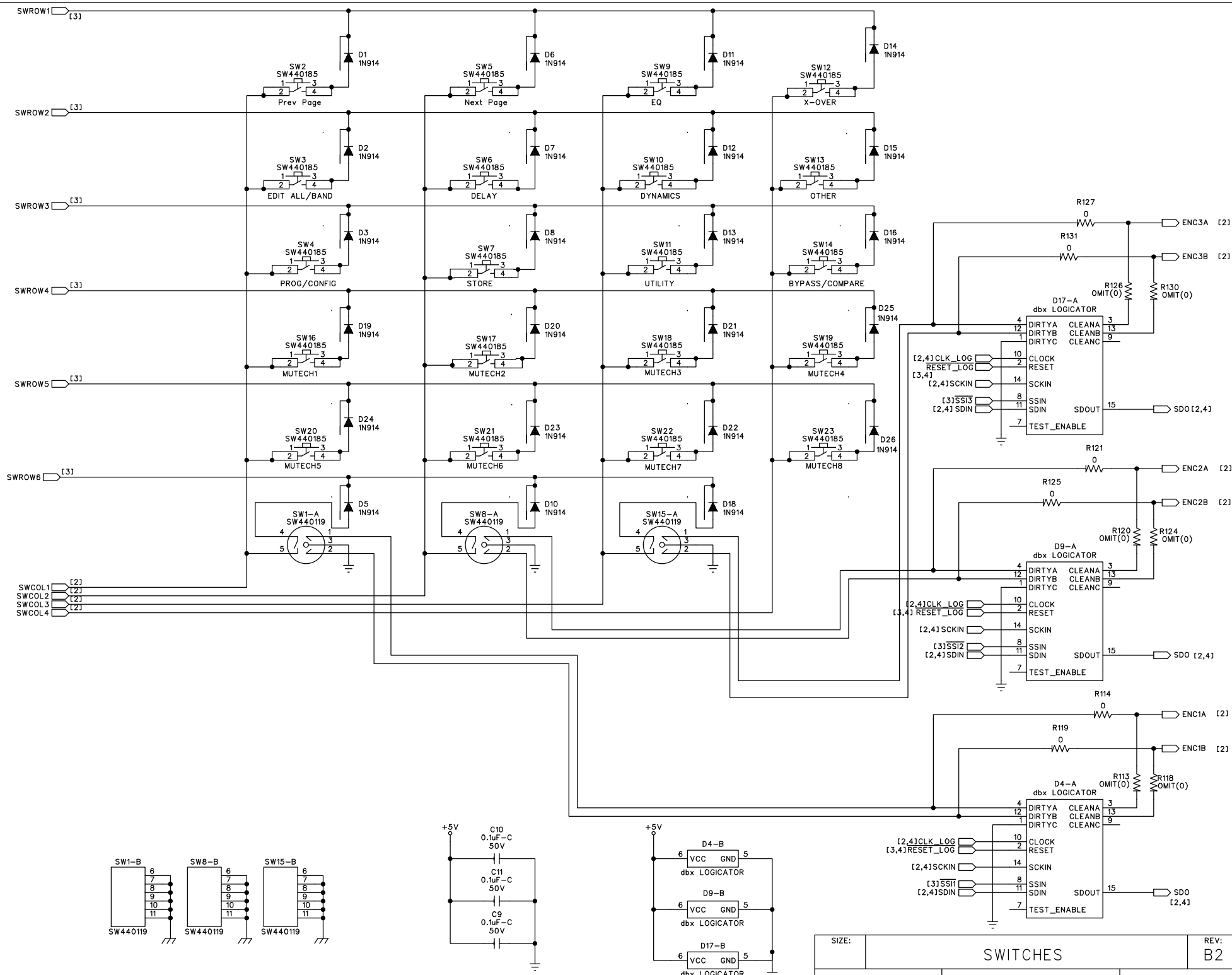


INSTALL ON  
SOLDER SIDE

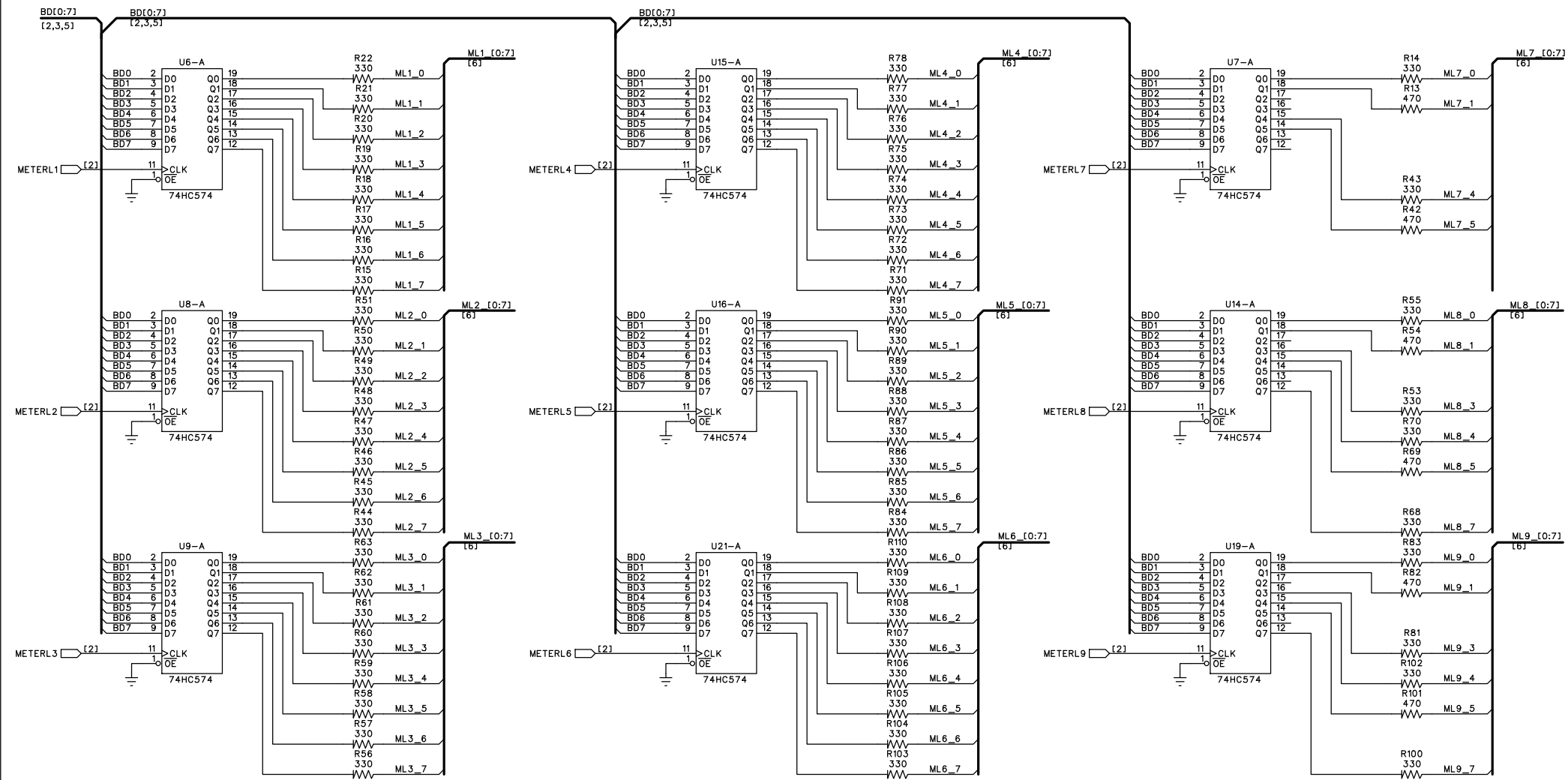
SIZE: A	SHEET TITLE: ADDRESS DECODE	REVISION: B2
START DATE: 7-15-09	DRAWING NO: 05-5331	SHEET: 2 OF 7



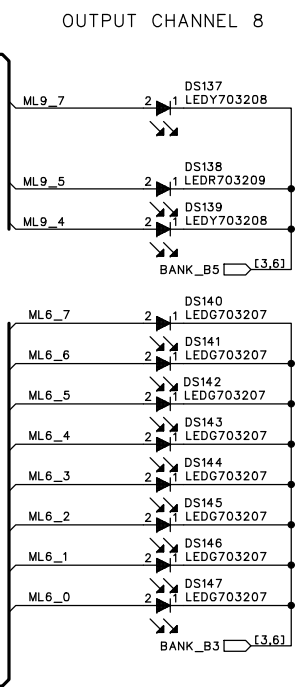
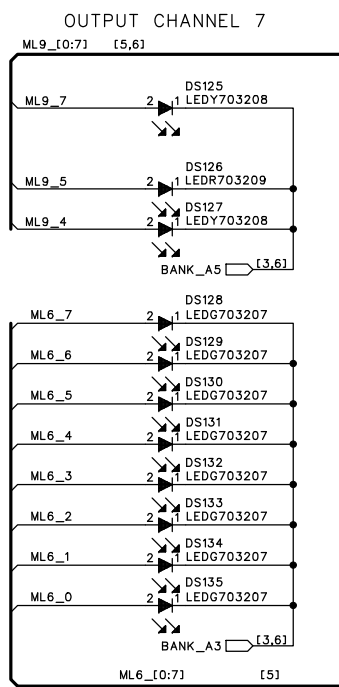
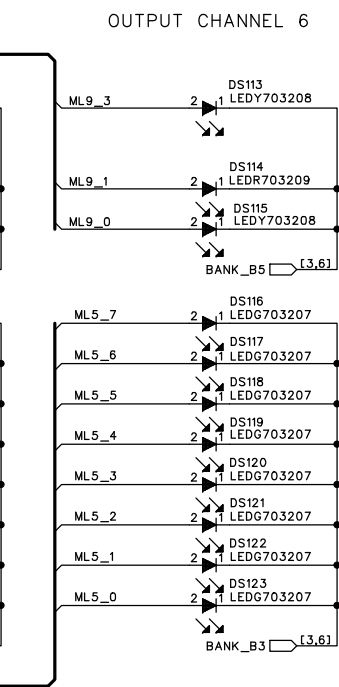
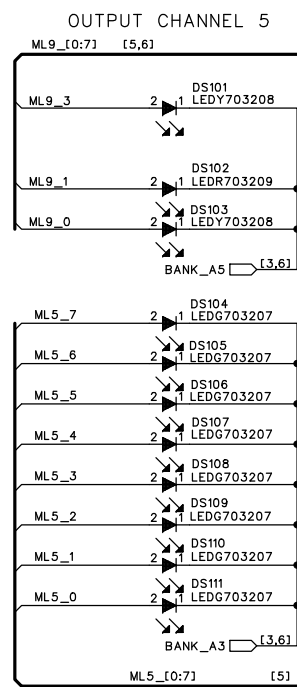
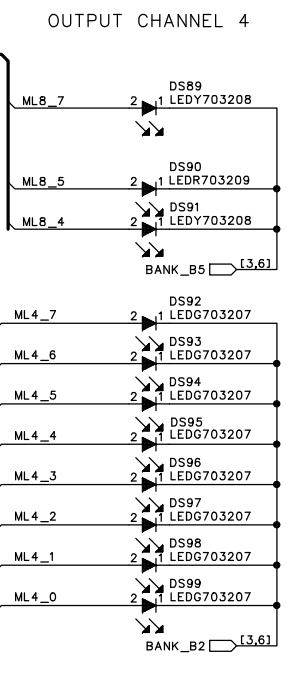
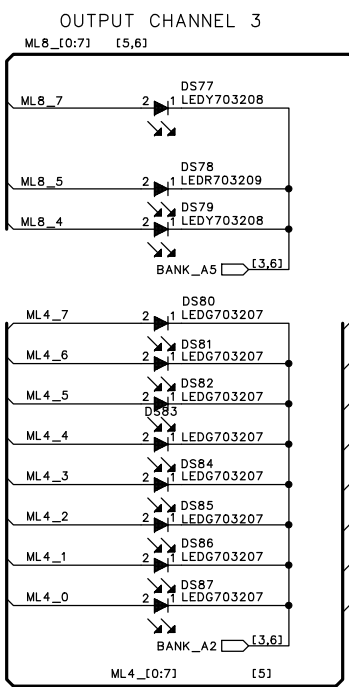
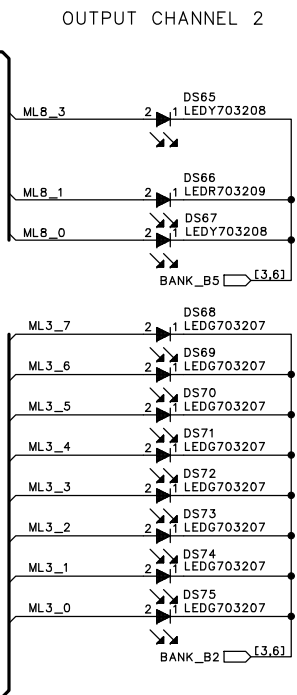
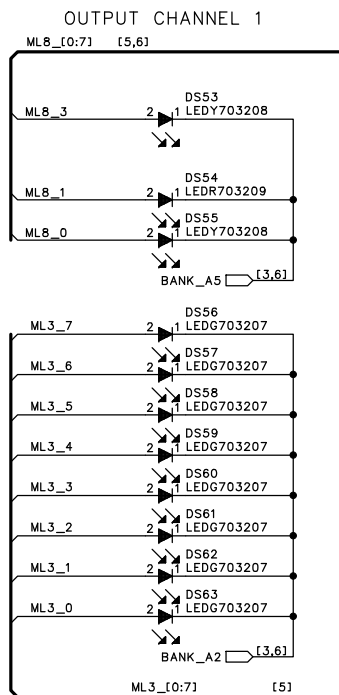
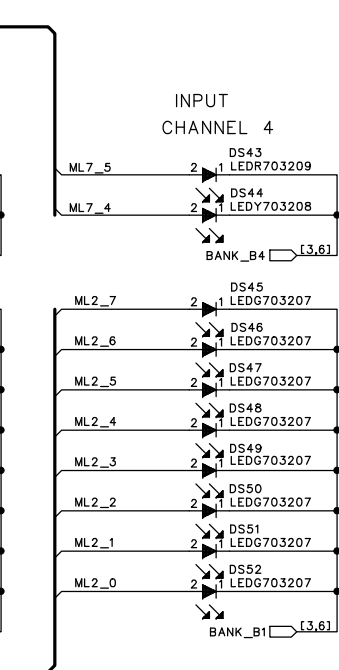
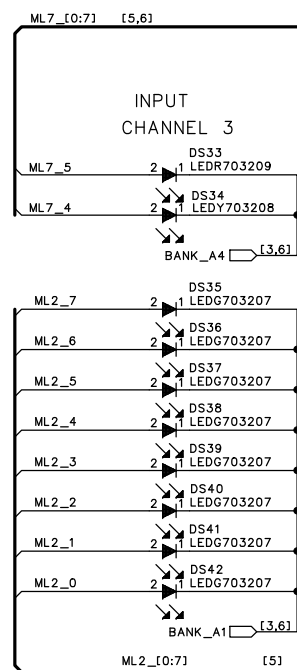
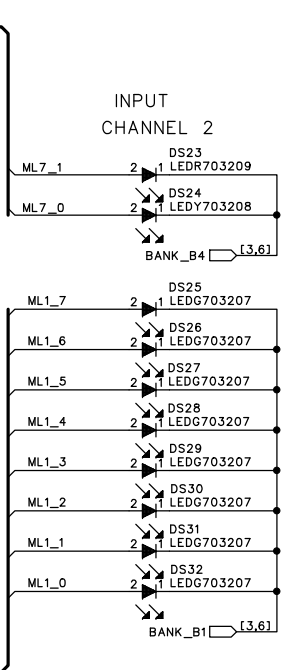
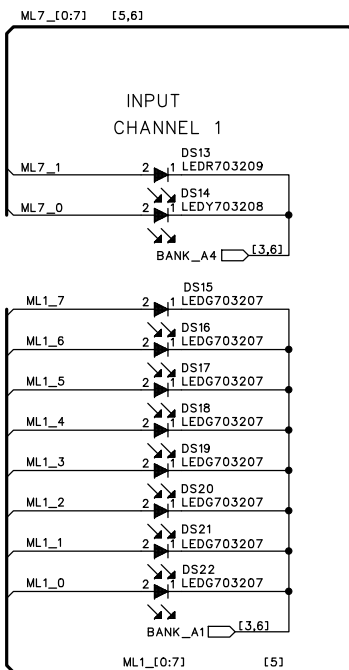
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START DATE: 7-15-09	DRAWING NO: 05-5331	SHEET: 3 OF 7



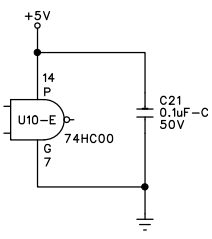
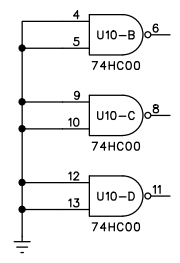
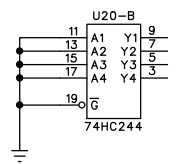
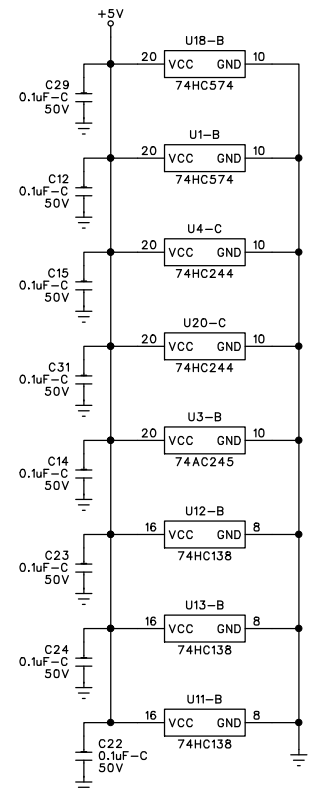
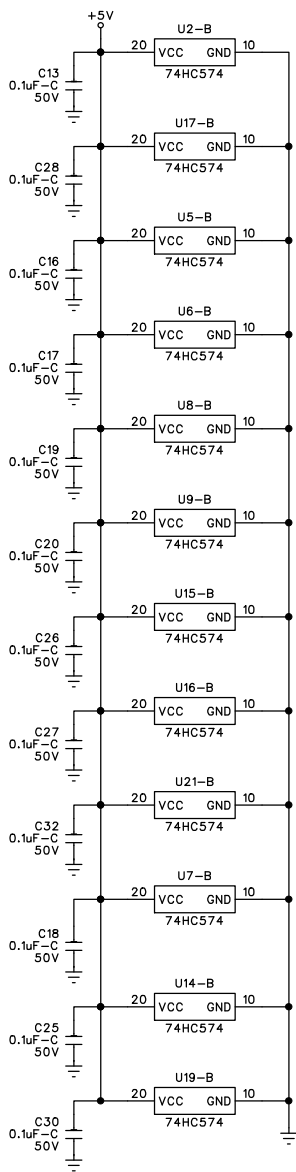
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DATE:	7-15-09	05-5331	SHEET: 4 OF 7



SIZE: A	SHEET TITLE: LATCHES	REVISION: B2
START DATE: 7-15-09	DRAWING NO: 05-5331	SHEET: 5 OF 7



SIZE: A	SHEET TITLE: METER LEDS	REVISION: B2
START DATE: 7-15-09	DRAWING NO: 05-5331	SHEET: 6 OF 7



SIZE: A	SHEET TITLE: POWER	REVISION: B2
START DATE: 7-15-09	DRAWING NO: 05-5331	SHEET: 7 OF 7

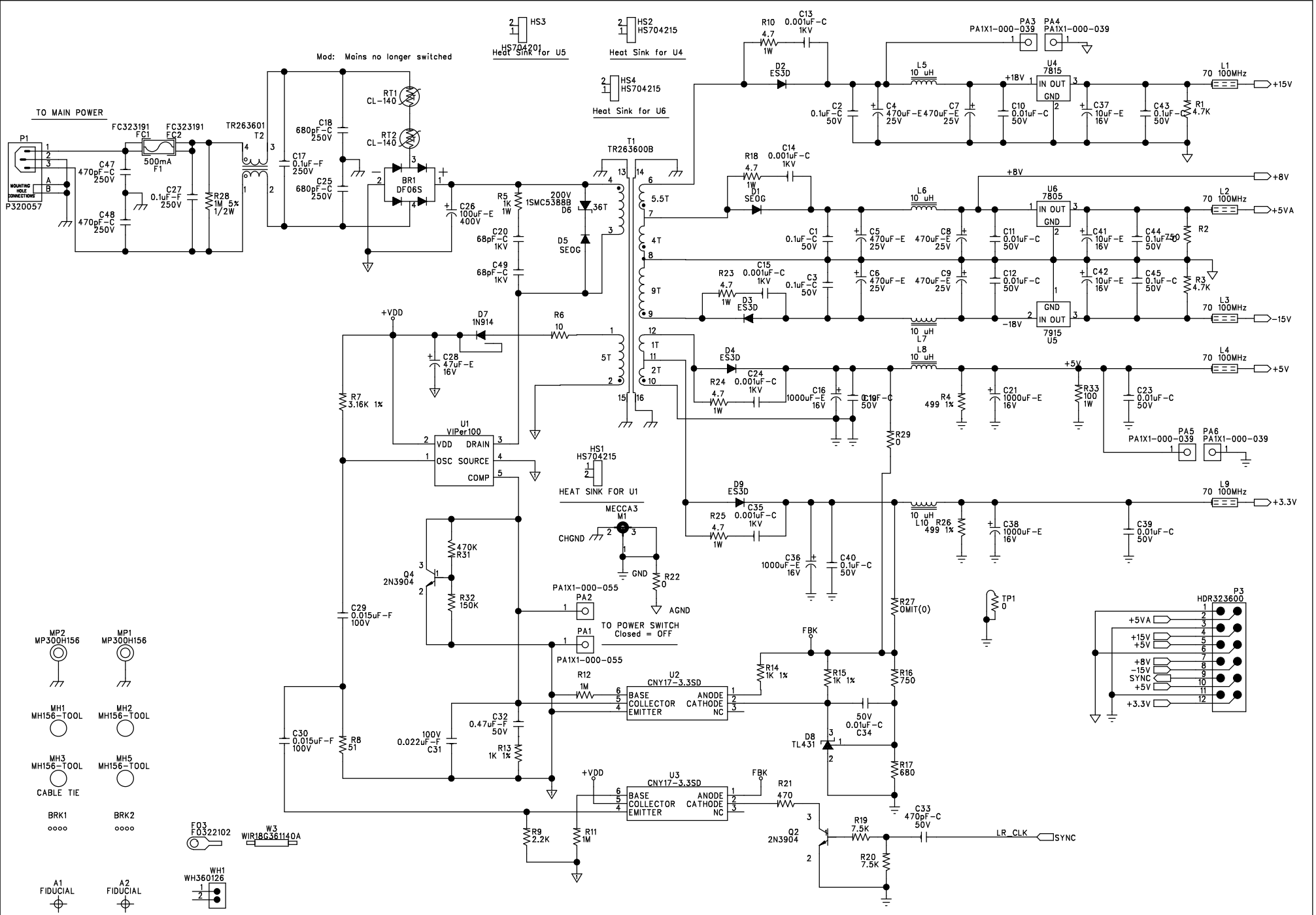
Bill Of Materials for 055331B2.sch on Wed Jul 15 16:05:43 2009

Qty	Reference	HMG#	Description	Audit	Schematic Part	PCB Decal
1	PCB1	80-5331	PCB 80-5331-B Drive Rack FP Control Inverter Boards	PT2044	80XXXXYY	BARCODE
2	A1-2	NON-PART	NON-PART, PCB ONLY, BREAKOFF PART	PT1481	BRKOFF	BRKOFF
31	C2-32	62-3139	CAP 0.1uF CER 50V 20% Y5V 0805 TA	PT1087	C0.1UC50M0805	0805
1	C1	OMIT	OMIT CAP 47uF EL 25V 20% GP 5x11R 5LS TA (60-0054-01)	PT2960	C47UE25MR10	REE200P
23	D1-3 D5-8 D10-16 D18-26	70-0110	DIO, 1N914, HIGH-SPEED SWITCHING, SOT-23, T&R	PT1004	D1N914-S	SOT-23
3	D4 D9 D17	70-2185	dbx, LOGICATOR ASSEMBLY MODULE	PT1938	DS702185	DSLOGICATOR1
4	A3-6	NON-PART	NON-PART FIDUCIAL TARGET FOR AUTO INSERTION	PT2904	FIDUCIAL-AI	FIDUCIAL-AI
1	P1	OMIT	OMIT HDR 20 PIN 0.1" SPC 2 X 10 VERT MALE (32-1055)	PT2179	HDR321055-0	HC102
1	P3	32-2000	HDR, 26 PIN, 0.1" SPC, 2 X 13, VERT, MALE	PT1298	HDR322000	HC132
1	LBL1	30-0121	LABEL BARCODE AUTOINSERTABLE RAW	PT2790	LABEL300121	LABEL300121
104	DS2-3 DS5 DS7-11 DS15-22 DS25-32 DS35-42 DS45-52 DS56-63 DS68-75 DS80-87 DS92-99 DS104-111 DS116-123 DS128-135 DS140-147	70-3207	LED GREEN D1206 T&R	PT1902	LEDG703207	D1206
22	DS6 DS12-13 DS23 DS33 DS43 DS54 DS64 DS66 DS76 DS78 DS88 DS90 DS100 DS102 DS112 DS114 DS124 DS126 DS136 DS138 DS148	70-3209	LED RED D1206 T&R	PT1901	LEDR703209	D1206
22	DS1 DS4 DS14 DS24 DS34 DS44 DS53 DS55 DS65 DS67 DS77 DS79 DS89 DS91 DS101 DS103 DS113 DS115 DS125 DS127 DS137 DS139	70-3208	LED YELLOW D1206 T&R	PT1900	LEDY703208	D1206
12	LP1-12	NON-PART	NON-PART 12 POS NOT INSTALLED UNTIL MECHANICAL ASSY(LIGHT PIPE)	PT1964	LP242015-12	LP242015-12
8	MH1-8	NON-PART	NON-PART, MOUNTING HOLE, 0.130" NON-PLATED, #4	PT1242	MH130	MH130
1	MP1	NON-PART	NON-PART, MECHANICAL PLATED HOLE, 175 PAD, 130 HOLE, #4	PT1970	MP175H130	MP175H130
3	N1-3	28-3323	NUT HEX BLK M7X.75 2MM THK	PT2026	N283323	PCBNUL
10	Q1-10	70-1058	XSTR, 2N3904, NPN, SOT-23, T&R	PT1203	Q2N3904-S	SOT-23
6	R114 R119 R121 R125 R127 R131	50-1531	RES 0 5% 1/10W SM 0805 TA	PT1099	R0-C5-0805	0805
6	R113 R118 R120 R124 R126 R130	OMIT	OMIT RES 0 5% 1/10W SM 0805 TA (50-1531)	PT1006	R0-C5-08050	0805
10	R23 R28 R33 R38 R41 R65 R67 R80 R94 R97	52-4505	RES 1K 1% 1/10W SM 0805 TA	PT1037	R1KC1-0805	0805
68	R1-5 R7-11 R14-22 R43-51 R53 R55-63 R68 R70-78 R81 R83-91 R100 R102-110	50-1517	RES 330 5% 1/10W SM 0805 TA	PT1020	R330-C5-0805	0805
8	R24 R26 R29 R31 R34 R36 R39-40	50-1509	RES 4.7K 5% 1/10W SM 0805 TA	PT1012	R4.7KC5-0805	0805
16	R6 R12-13 R42 R52 R54 R64 R66 R69 R79 R82 R93 R96 R99 R101 R112	50-1518	RES 470 5% 1/10W SM 0805 TA	PT1021	R470-C5-0805	0805
16	R25 R27 R30 R32 R35 R37 R92 R95 R98 R111 R115-116 R122-123 R128-129	50-1521	RES 7.5K 5% 1/10W SM 0805 TA	PT1024	R7.5KC5-0805	0805

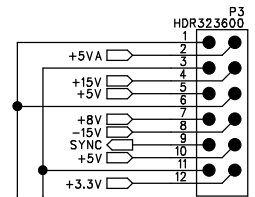


8	SC13-20	24-2017-A	SWITCHCAP dbx LIGHTED MUTE BUTTON	PT2025	SC242017A	
12	SC1-12	34-0199	SWITCHCAP LIGHTPIPE DUAL LED VRT (dbx)	PT3883	SC340199	PCBNULL
3	SW1 SW8 SW15	44-0119	ENCODER 20mm D SHAFT 30 POS W/SWITCH VERT MOUNT	PT1890	SW440119	SW440119
20	SW2-7 SW9-14 SW16-23	44-0185	SWITCH, SPST, LITE TOUCH, MINI, W/ PROJECTED PLUNGER SMT	PT1962	SW440185	SW4PTACT-3
1	U3	72-1267	IC 74AC245 OCTAL BUS TRANCEIVER SO20W	PT1945	U74AC245-S	SO20W
1	U10	72-5418	IC, 74HC00, QUAD 2-INPUT NAND, SO14, T&R	PT1348	U74HC00-S	SO14
3	U11-13	72-5419	IC, 74HC138, 3-TO-8 LINE DECODER, SO16, T&R	PT1650	U74HC138-S	SO16
2	U4 U20	72-1111	IC, 74HC244, OCTAL BUFFER LINE DRIVER W/3-STATE OUTPUTS, SO20W, T&R	PT1351	U74HC244-S	SO20W
14	U1-2 U5-9 U14-19 U21	72-1263	IC, 74HC574, FLIP-FLOP, EDGE TRIGGERED, OCTAL, SO20W, T&R	PT1352	U74HC574-S	SO20W
3	WA1-3	28-0194	WASHER FLT NYL 5/16 OD .156 ID .020 THK	PT2027	WA280194	PCBNULL





- MP2 MP300H156
- MP1 MP300H156
- MH1 MH156-TOOL
- MH2 MH156-TOOL
- MH3 MH156-TOOL
- MH5 MH156-TOOL
- CABLE TIE
- BRK1
- BRK2
- A1 FIDUCIAL
- A2 FIDUCIAL
- WH1 WH360126
- F03 F0322102
- W3 WIR18G361140A



Bill Of Materials for 055384C1.sch on Thu Mar 20 16:18:16 2003

Qty	Reference	HMG#	Description	Audit	Schematic Part	PCB Decal
1	PCB1	80-5384	PCB 80-5384 HMG 35W SWITCH MODE POWER SUPPLY	PT1046	80XXXXXX	PCBNUL
1	BR1	70-3600	BRG RECT IC 600V 1 AMP TA	PT1465	BR703600	BRIDGE1
2	BRK1-2	NON-PART	NON-PART, PCB ONLY, BREAKOFF PART	PT1481	BRKOFF	BRKOFF
5	C13-15 C24 C35	62-3051	CAP 0.001uF CER 1KV 10% Y5P RC TA	PT2028	C0.001UC1KKR	RCCE200
2	C29-30	56-0007	CAP 0.015uF FILM PTR 100V 5% RF TA	PT1198	C0.015UF100JR	RFDD200
6	C10-12 C23 C34 C39	62-3142	CAP 0.01uF CER 50V 10% X7R 0805 TA	PT1118	C0.01UC50K0805	0805
1	C31	56-0008	CAP 0.022uF FILM PTR 100V 5% RF TA	PT1399	C0.022UF100JR	RFED200
8	C1-3 C19 C40 C43-45	62-3139	CAP 0.1uF CER 50V 20% Y5V 0805 TA	PT1087	C0.1UC50M0805	0805
2	C17 C27	62-3600	CAP 0.1uF FILM MTPT 250VAC 10% RF BK	PT1553	C0.1UF250KR	RFVI590
1	C32	56-0016	CAP 0.47uF FILM MTPT 50V 5% RF TA	PT1308	C0.47UF50JR	RFEF200
4	C16 C21 C36 C38	60-0064	CAP 1000uF EL 16V 20% GP 10x17R 5LL BK	PT1334	C1000UE16MR	REM200P
1	C26	60-3600	CAP 100uF EL 400V 20% GP 25x25R 10LL BK	PT1386	C100UE400MR	REZ400P
3	C37 C41-42	60-0049-01	CAP 10uF EL 16V 20% GP 5x7R 5LS TA	PT1080	C10UE16MR	RED200P
2	C47-48	62-3050	CAP 470pF CER 250VAC 10% Y5P RC BK	PT1582	C470PC250KR	RCHG300
1	C33	62-3133	CAP 470pF CER 50V 10% X7R 0805 TA	PT1086	C470PC50K0805	0805
6	C4-9	60-0058	CAP 470uF EL 25V 20% GP 10x16R 5LL BK	PT1457	C470UE25MR	REM200P
1	C28	60-0054-01	CAP 47uF EL 16V 20% GP 5x11R 5LS TA	PT1108	C47UE16MR	REE200P
2	C18 C25	62-3516	CAP 680pF CER 250VAC 10% Y5P RC BK	PT1643	C680PC250KR	RCIG300
2	C20 C49	62-3038	CAP 68pF CER 1KV 10% SL RC BK	PT2791	C68PC1KKR	RCCE200
1	D7	70-0110	DIO, 1N914, HIGH-SPEED SWITCHING, SOT-23, T&R	PT1004	D1N914-S	SOT-23
1	D6	70-3603	DIODE, 1SMC5388B, ZENER, GLASS, 5W, 200V, 5%, SMC, T&R	PT1456	D1SMC5388B-S	DO-214AB/SMC
4	D2-4 D9	70-3602	RECTIFIER, 35ns, 200V, 3 AMP, SMC, T&R	PT1467	DES3D-S	DO-214AB/SMC
2	D1 D5	70-3601	RECTIFIER, 400V, 1.5 AMP, SMB, T&R	PT1466	DSEOG-S	DO-214AA/SMB
1	D8	72-3601	DIODE, TL431, PROGRAMMABLE PRECISION REFERENCE, TO92(RAC)-V, AMMO	PT1469	DTL431-R	TO92(RAC)-V
1	F1	32-0025	FUSE, 500mA, 250V, TIME LAG, AXIAL, 5 X20mm	PT1537	F0.5A320025	FUSE1
2	FC1-2	32-3191	FUSE CLIP FOR 5 X 20mm FUSES	PT2792	FC323191	FCLIP2-5X20
2	AI-2	NON-PART	NON-PART, FIDUCIAL, TARGET FOR AUTO INSERTION	PT1271	FIDUCIAL	FIDUCIAL
1	FO3	32-2102	FAST ON LUG #6 STAR RING 18-22 AWG DBL	PT2040	FO322102	PCBNUL
1	P3	32-3600	HDR, 12 PIN, 0.118" SPC, 2 X 6 , LKG, SHD, POL, VERT, MALE	PT1460	HDR323600	HC26118LSPM
1	HS3	70-4201	HSK TO-220 VRT BK	PT1346	HS704201	HS704201
3	HS1-2 HS4	70-4215	HEATSINK, TO-220, VERT	PT1339	HS704215	HS704215
1	LBL2	30-0106	LABEL dbx SPS35W RATINGS	PT2685	LABEL300106	LABEL300106
1	LBL1	30-0121	LABEL BARCODE AUTOINSERTABLE RAW	PT2790	LABEL300121	LABEL300121
5	L1-4 L9	26-0215	IND FBD 70 OHM @ 100MHz RIC200 TA	PT1262	LFB260215	RIC200
5	L5-8 L10	26-3602	IND, 10 uH, 3 AMPS, RIK200, BULK	PT1471	LI263602	RIK200
1	M1	NON-PART	NON-PART MECCA GND/PWR TIE POINT 3 POS	PT2481	MECCA3	MECCA3
4	MH1-3 MH5	NON-PART	NON-PART TOOLING PIN HOLE 156MIL HOLE	PT2794	MH156-TOOL	MH156-TOOL
2	MP1-2	NON-PART	NON-PART, 300 PAD, 156 HOLE, PLATED	PT1045	MP300H156	MP300H156
1	P1	32-0057	CON, PLUG, PC MOUNT AC RECEPTACLE, 3 PIN	PT1581	P320057	ACPLUG-1
4	PA3-6	NON-PART	NON PART, PAD ARRAY, 1 PIN, 0.039" HOLE	PT1550	PA1X1-000-039	PA1X1-000-039
2	PA1-2	NON-PART	PAD ARRAY, 1 PIN, 0.055" HOLE	PT1536	PA1X1-000-055	PA1X1-000-055
2	Q2 Q4	70-1058	XSTR, 2N3904, NPN, SOT-23, T&R	PT1203	Q2N3904-S	SOT-23
2	R22 R29	50-1531	RES 0 5% 1/10W SM 0805 TA	PT1099	R0-C5-0805	0805
1	R27	OMIT	OMIT RES 0 5% 1/10W SM 0805 TA (50-1531)	PT1006	R0-C5-08050	0805
1	TP1	50-0317	RES 0 5% 1/4W CF RR TA	PT1008	R0-E5-R	RRA200
1	R6	50-1500	RES 10 5% 1/10W SM 0805 TA	PT1309	R10-C5-0805	0805
1	R33	50-1160	RES 100 5% 1W CF RR BK	PT1569	R100-G5-R	RRC200
1	R32	50-1526	RES 150K 5% 1/10W SM 0805 TA	PT1026	R150KC5-0805	0805
3	R13-15	52-4505	RES 1K 1% 1/10W SM 0805 TA	PT1037	R1KC1-0805	0805
1	R5	50-3601	RES 1K 5% 1W MOF BK	PT1389	R1KG5-R	RRC200
2	R11-12	50-1506	RES 1M 5% 1/10W SM 0805 TA	PT1011	R1MC5-0805	0805
1	R28	50-1950	RES 1M 5% 1/2W SM 2010 TA	PT2793	R1MF5-2010	2010
1	R9	50-1529	RES 2.2K 5% 1/10W SM 0805 TA	PT1127	R2.2KC5-0805	0805
1	R7	52-4508	RES 3.16K 1% 1/10W SM 0805 TA	PT1129	R3.16KC1-0805	0805
5	R10 R18 R23-25	50-3600	RES 4.7 5% 1W MOF BK	PT1390	R4.7-G5-R	RRC200
2	R1 R3	50-1509	RES 4.7K 5% 1/10W SM 0805 TA	PT1012	R4.7KC5-0805	0805
1	R21	50-1518	RES 470 5% 1/10W SM 0805 TA	PT1021	R470-C5-0805	0805
1	R31	50-1523	RES 470K 5% 1/10W SM 0805 TA	PT1025	R470KC5-0805	0805
2	R4 R26	52-4504	RES 499 1% 1/10W SM 0805 TA	PT1102	R499-C1-0805	0805

1	R8	50-1524	RES 51 5% 1/10W SM 0805 TA	PT1279	R51-C5-0805	0805
1	R17	50-1511	RES 680 5% 1/10W SM 0805 TA	PT1014	R680-C5-0805	0805
2	R19-20	50-1521	RES 7.5K 5% 1/10W SM 0805 TA	PT1024	R7.5KC5-0805	0805
2	R2 R16	50-1530	RES 750 5% 1/10W SM 0805 TA	PT1029	R750-C5-0805	0805
2	RT1-2	50-3602	THERMISTOR NTC, INRUSH CURRENT LIMITER, 3 A, RRKE250170, BULK	PT1464	RTCL-140-R	RRKE250170
1	T2	26-3601	TRANSFORMER, COMMON MODE CHOKE COIL	PT1472	TR263601	XFR-5
1	T1	26-3600-B	TRANSFORMER, 45W, 50KHZ, MULTI-TAP	PT1607	TR263600B	XFR-4
1	U6	70-4014	V-REG, 7805, +5V, 1.5 AMP, TO-220	PT1591	U7805	TO220(IGO)-V
1	U4	70-4123	V-REG, 7815, +15V, 1 AMP, TO-220	PT1592	U7815	TO220(IGO)-V
1	U5	70-4124	V-REG, 7915, -15V, 1 AMP, TO-220	PT1594	U7915	TO220(GIO)-V
2	U2-3	72-5431	IC, OPTO-ISOLATOR, HIGH INSULATION, DIP6-400-S (SMT), T&R	PT1470	UCNY17-3.3SD-S1	DIP6-400-S
1	U1	72-3600	IC, VIPer100, SMPS PRIMARY I.C., TO-220(5)-V, BULK	PT1468	UVIPER100-V	TO220(5)-V
1	WH1	36-0126	WIRE HAR 2C 18AWG 10"	PT2938	WH360126	
1	W3	36-1140-A	WIRE 18 AWG GREEN W/YELLOW STRIPE 4"	PT2041	WIR18G361140A	PCBNULL