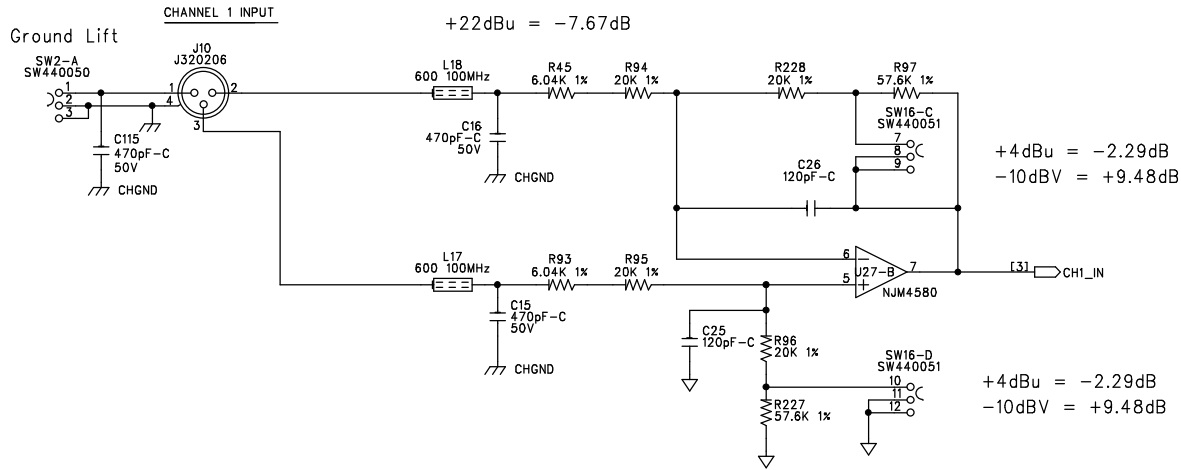
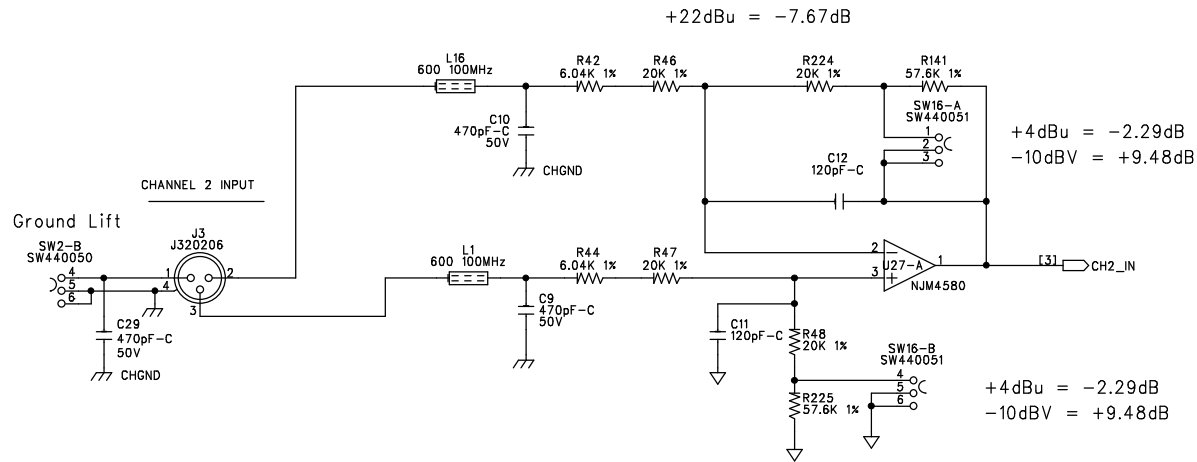


SC15 SC14
SC340125 SC340125

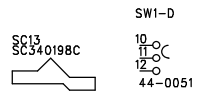
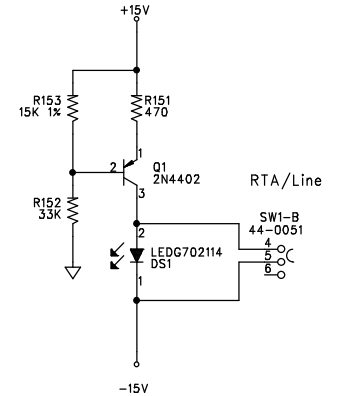
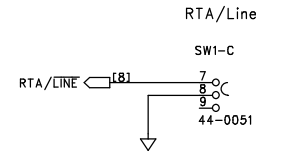
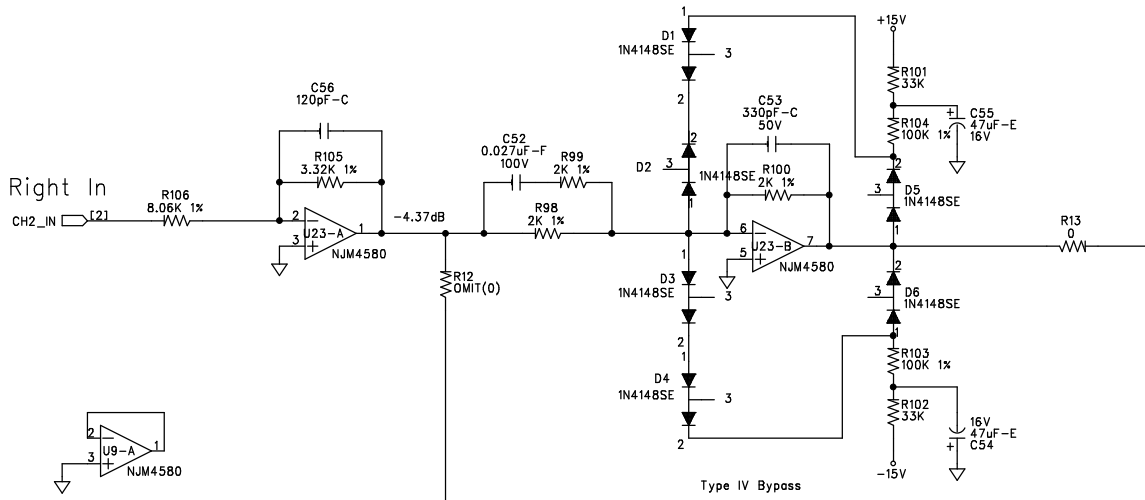
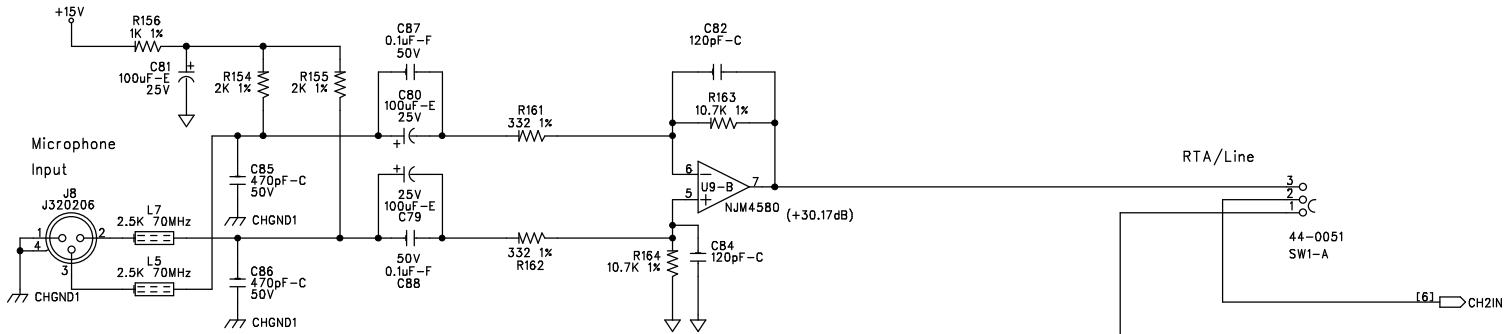
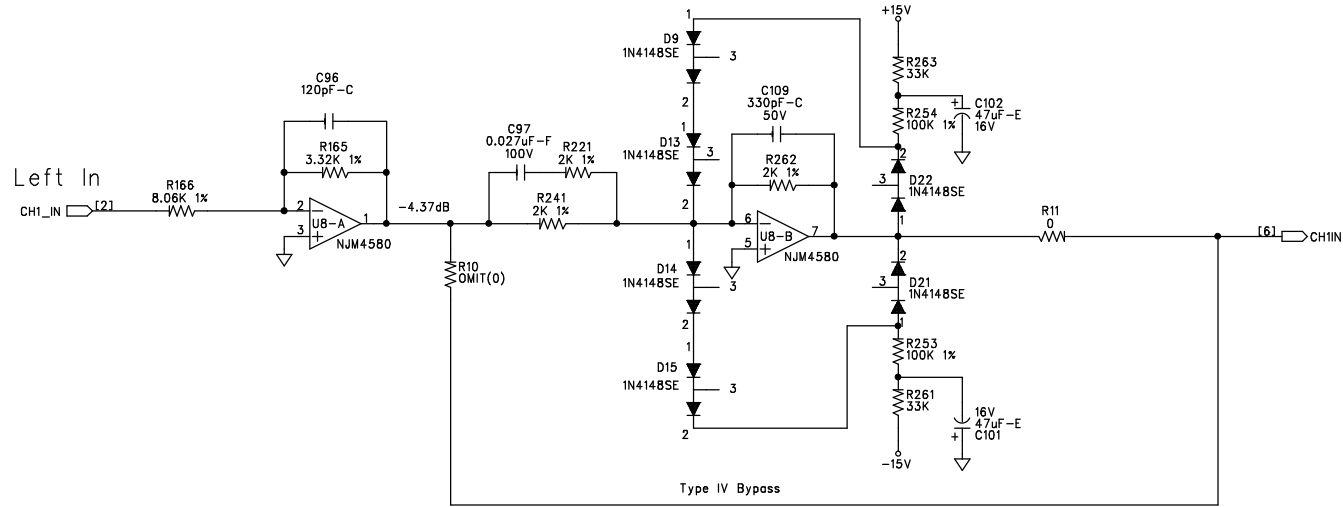


Left In

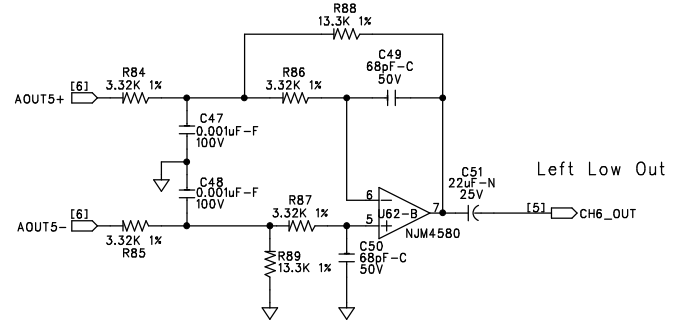
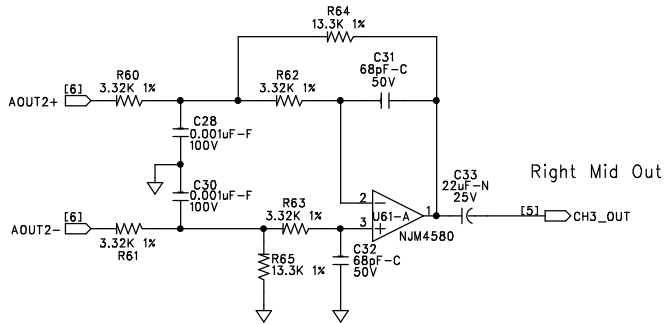
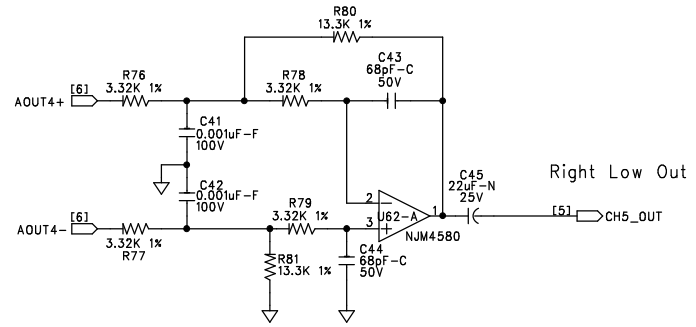
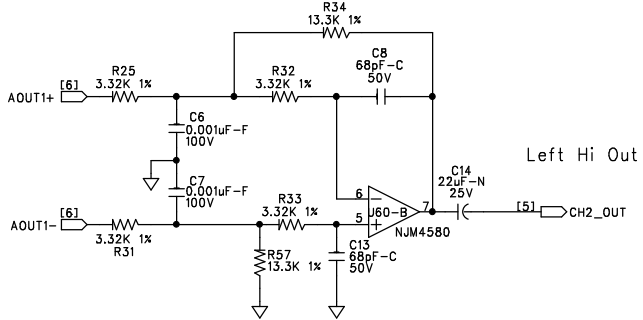
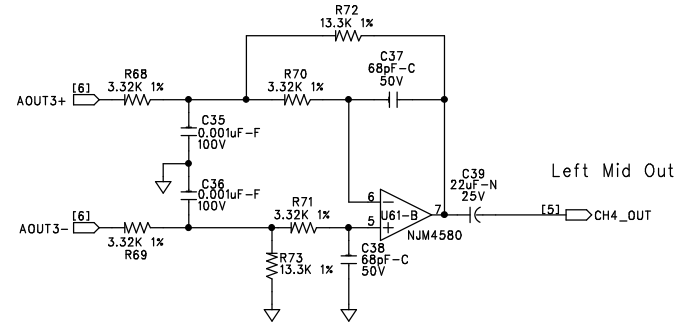
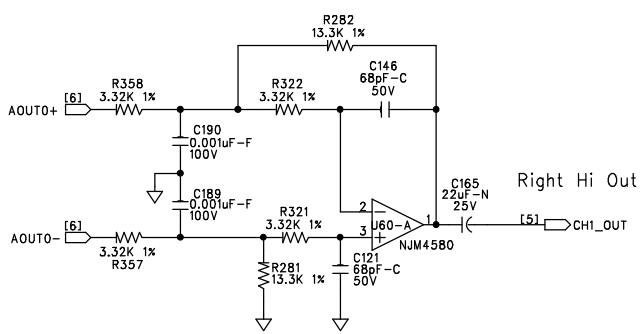


Right In

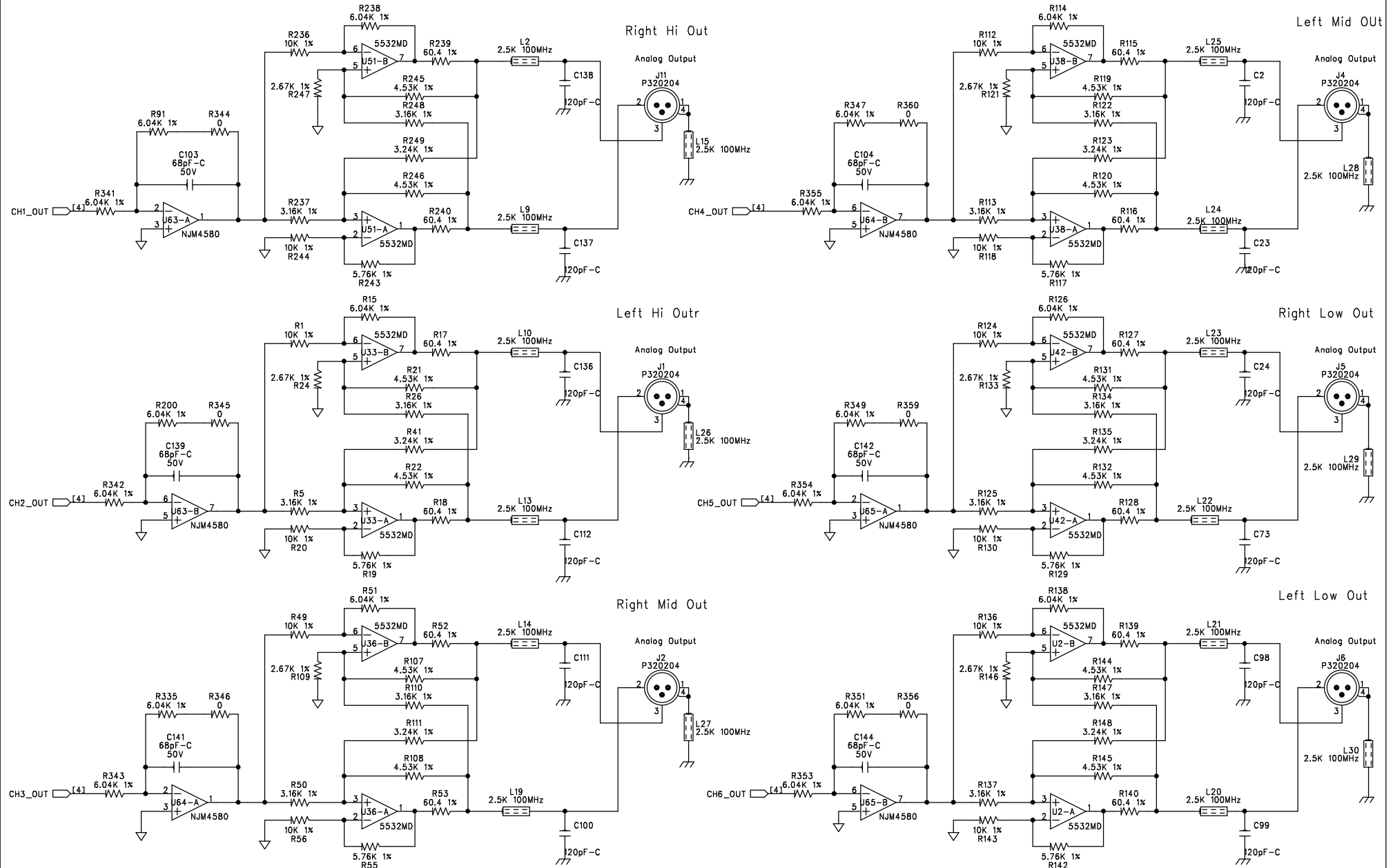
SIZE: A	SHEET TITLE: CHANNEL 1 & 2 INPUTS	REVISION: A2
START DATE: 4-9-02	DRAWING NO: 05-1790	SHEET: 2 OF 15



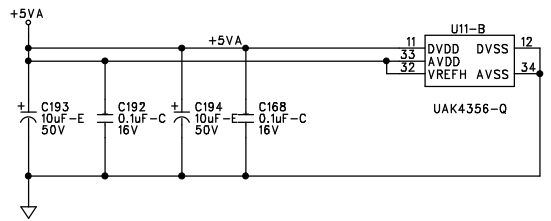
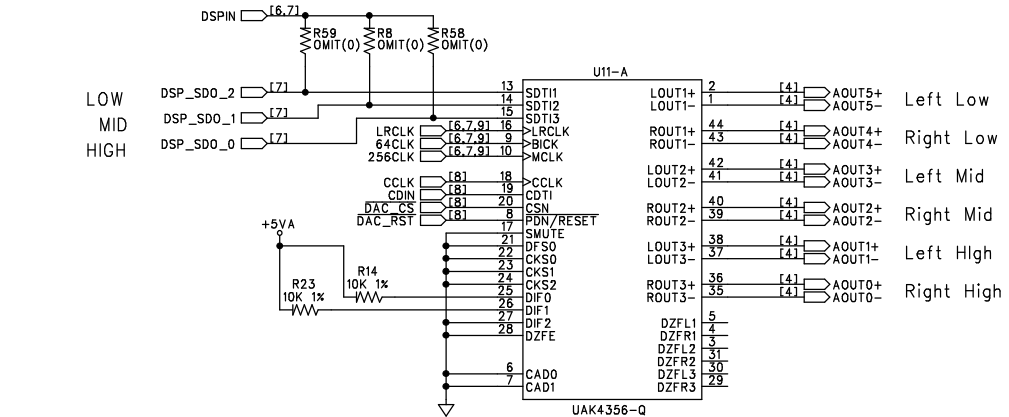
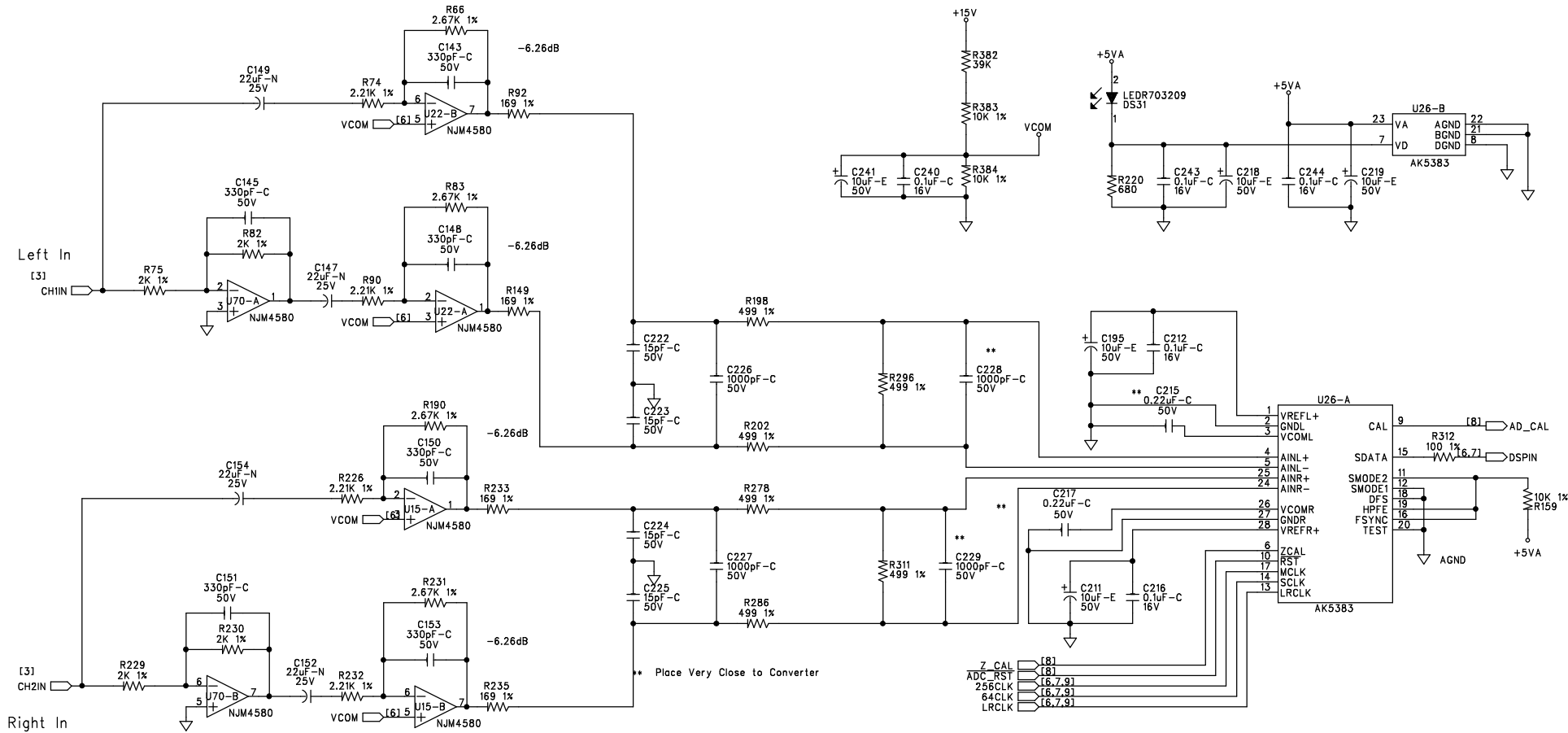
SIZE: A	SHEET TITLE: ANALOG CHANNEL 1 & 2 INPUTS	REVISION: A2
START DATE: 4-9-02	DRAWING NO: 05-1790	SHEET: 3 OF 15



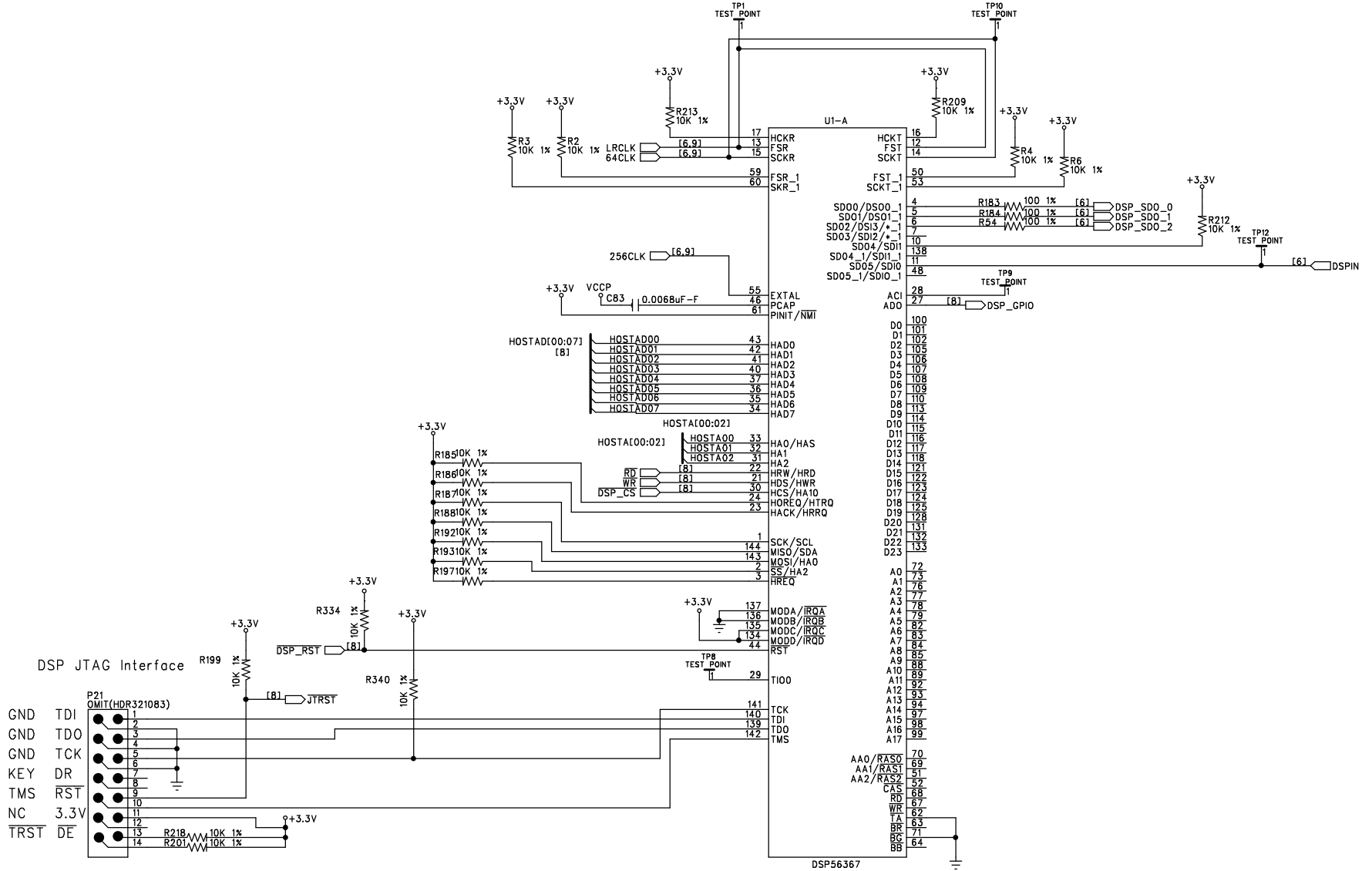
SIZE: A	SHEET TITLE: ANALOG OUTPUTS 1 - 6	REVISION: A2
START DATE: 4-9-02	DRAWING NO: 05-1790	SHEET: 4 OF 15

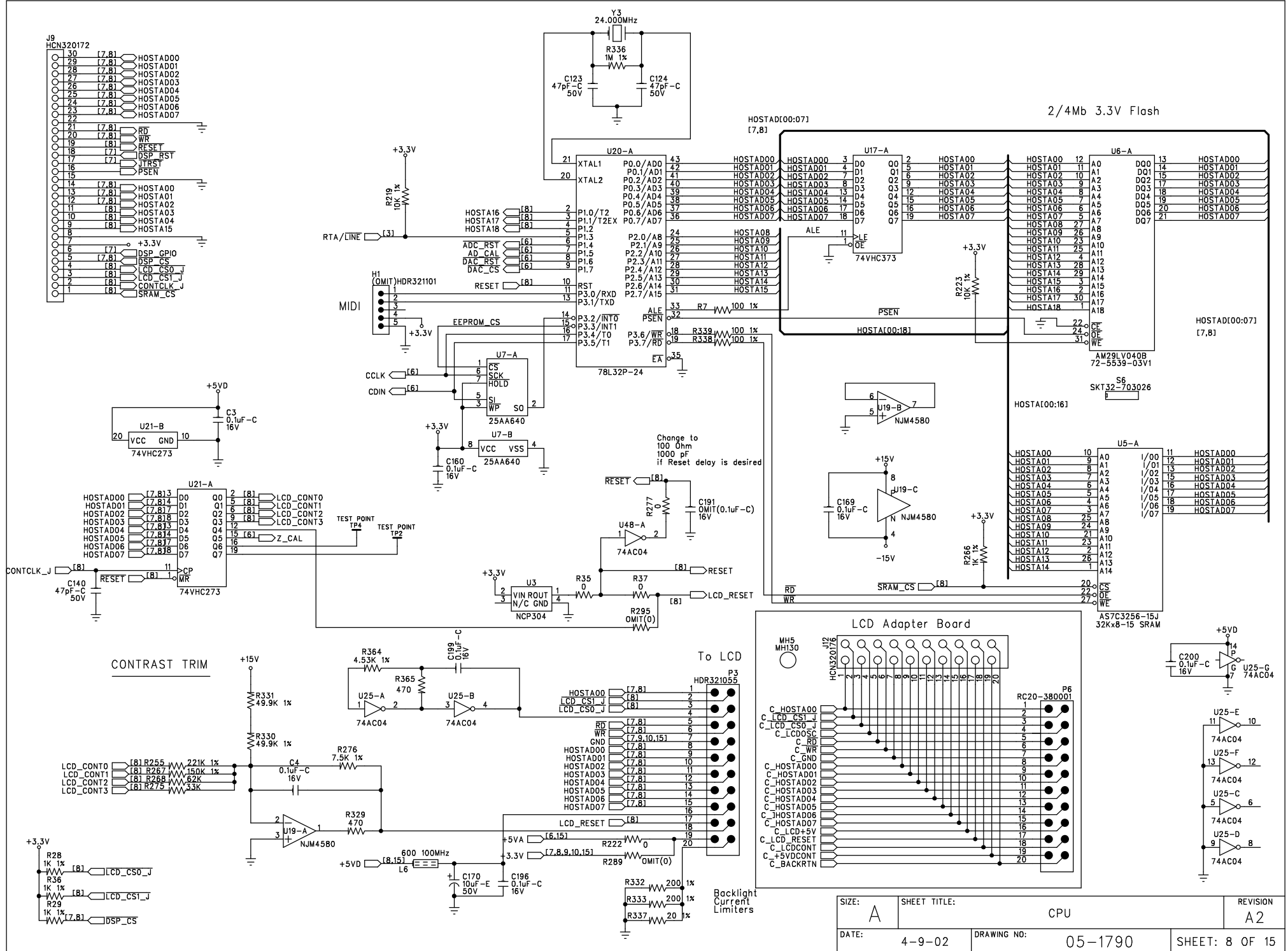


SIZE: A	SHEET TITLE: OUTPUT JACKS	REVISION: A2
DATE: 4-9-02	DRAWING NO: 05-1790	SHEET: 5 OF 15



SIZE: A	SHEET TITLE: CONVERTERS	REVISION: A2
DATE: 4-9-02	DRAWING NO: 05-1790	SHEET: 6 OF 15





J9 HCN320172

30	[7.8]	HOSTAD00
29	[7.8]	HOSTAD01
28	[7.8]	HOSTAD02
27	[7.8]	HOSTAD03
26	[7.8]	HOSTAD04
25	[7.8]	HOSTAD05
24	[7.8]	HOSTAD06
23	[7.8]	HOSTAD07
22	[7.8]	
21	[7.8]	RD
20	[7.8]	WR
19	[8]	RESET
18	[7]	DSP_RST
17	[7]	JTRST
16	[7]	PSEN
15	[7]	
14	[7.8]	HOSTA00
13	[7.8]	HOSTA01
12	[7.8]	HOSTA02
11	[7.8]	HOSTA03
10	[8]	HOSTA04
9	[8]	HOSTA15
8	[8]	
7	[7]	DSP_GPIO
6	[7.8]	RST_CS
5	[8]	LCD_CS0_J
4	[8]	LCD_CS1_J
3	[8]	LCD_CS2_J
2	[8]	CONTRCLK_J
1	[8]	SRAM_CS

2/4Mb 3.3V Flash

HOSTAD[00:07]
[7.8]

HOSTAD[00:07]
[7.8]

HOSTA[00:18]

HOSTA[00:16]

HOSTA[00:14]

U21-A

D0	[7.8]	HOSTAD00
D1	[7.8]	HOSTAD01
D2	[7.8]	HOSTAD02
D3	[7.8]	HOSTAD03
D4	[7.8]	HOSTAD04
D5	[7.8]	HOSTAD05
D6	[7.8]	HOSTAD06
D7	[7.8]	HOSTAD07
Q0	[8]	LCD_CONT0
Q1	[8]	LCD_CONT1
Q2	[8]	LCD_CONT2
Q3	[8]	LCD_CONT3
Q4	[8]	Z_CAL
Q5	[6]	TEST_POINT TP4
Q6	[6]	TEST_POINT TP2
Q7	[6]	

CONTRAST TRIM

To LCD

LCD Adapter Board

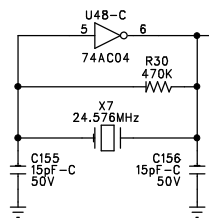
J12 HCN320176

1	1	C_HOSTA00
2	2	C_LCD_CS1_J
3	3	C_LCD_CS0_J
4	4	C_LCDOSC
5	5	C_RD
6	6	C_WR
7	7	C_GND
8	8	C_HOSTAD00
9	9	C_HOSTAD01
10	10	C_HOSTAD02
11	11	C_HOSTAD03
12	12	C_HOSTAD04
13	13	C_HOSTAD05
14	14	C_HOSTAD06
15	15	C_HOSTAD07
16	16	C_LCD+5V
17	17	C_LCD_RESET
18	18	C_LCDCONT
19	19	C_LCD+5V
20	20	C_BACKRTN

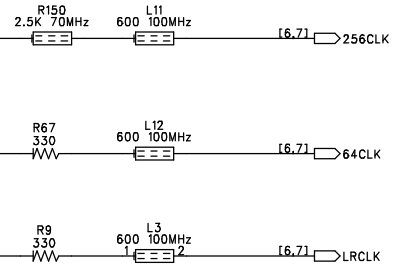
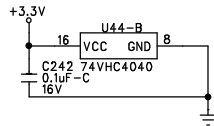
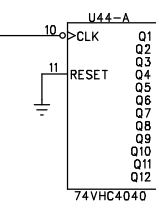
SIZE: A	SHEET TITLE: CPU	REVISION: A2
DATE: 4-9-02	DRAWING NO: 05-1790	SHEET: 8 OF 15

Divider/Clock Tree

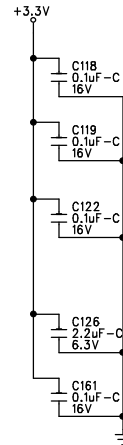
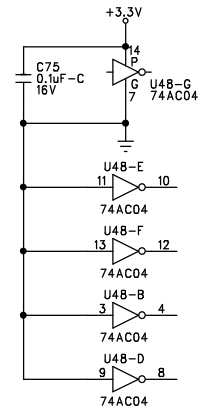
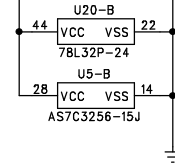
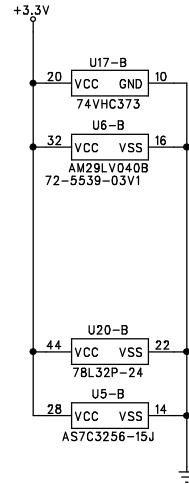
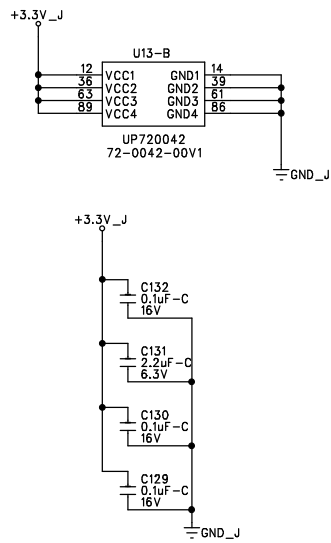
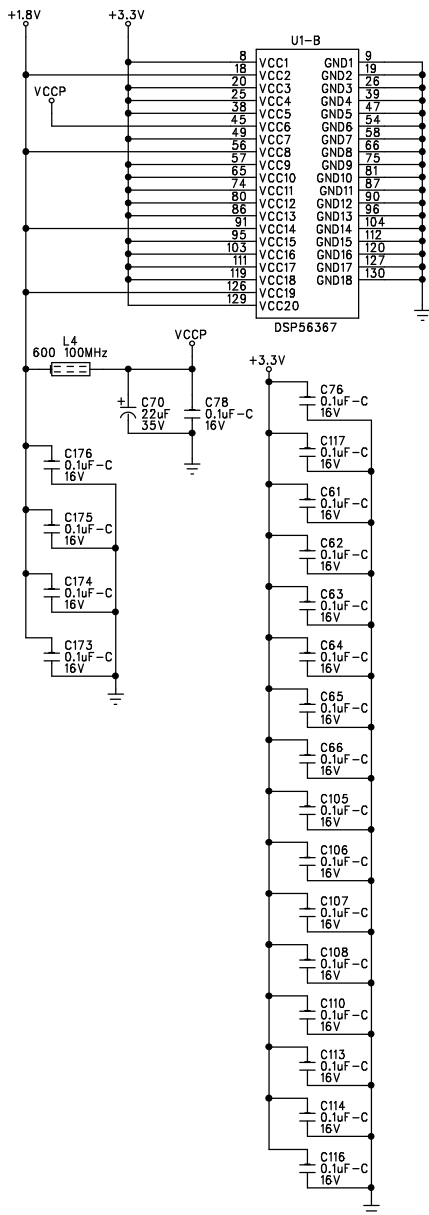
x512fs Crystal Oscillator
24.576 MHz



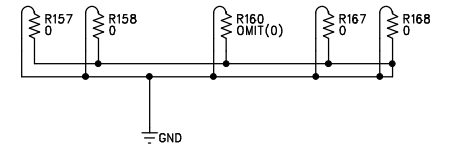
Change to 74VHC4040



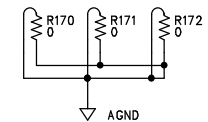
SIZE: A	SHEET TITLE: CLOCKS	REVISION: A2
DATE: 4-9-02	DRAWING NO: 05-1790	SHEET: 9 OF 15



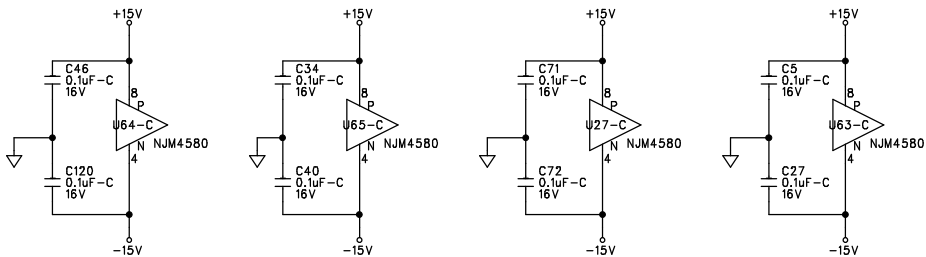
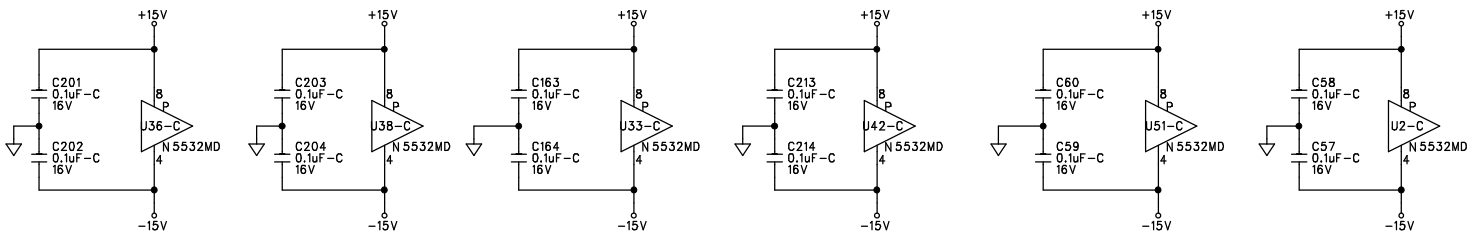
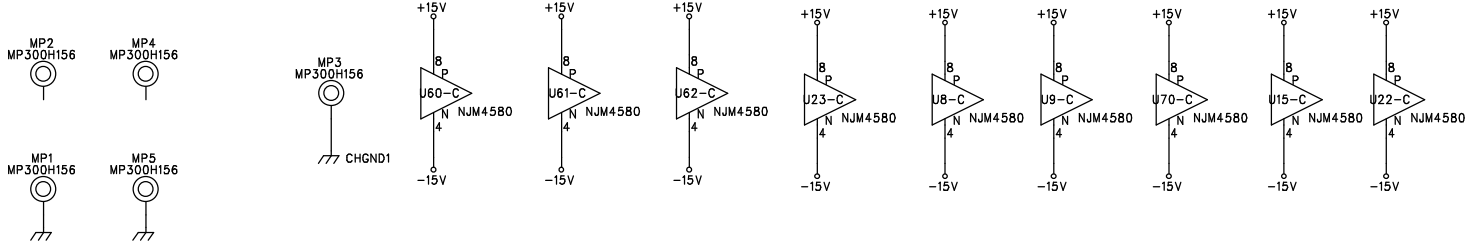
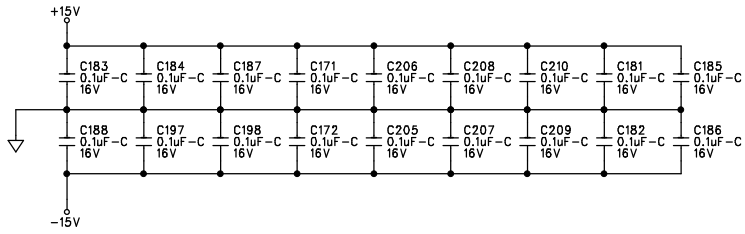
Digital Ground Test Points



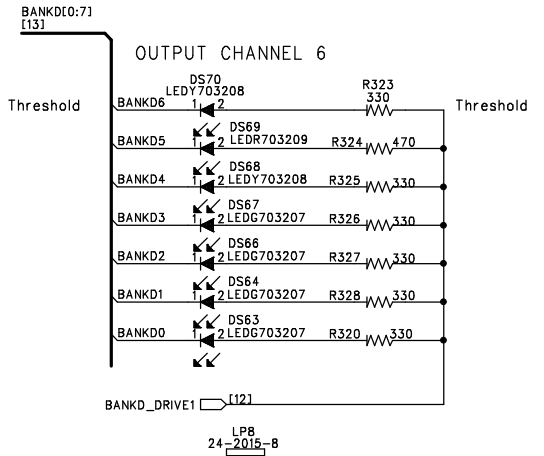
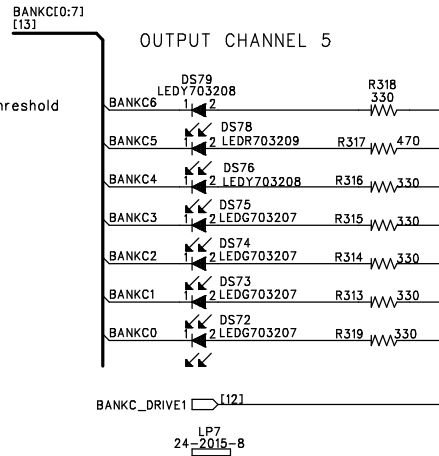
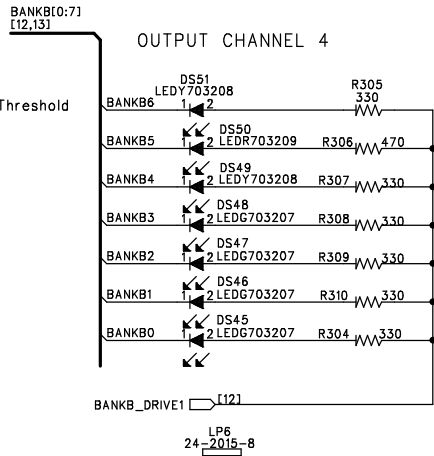
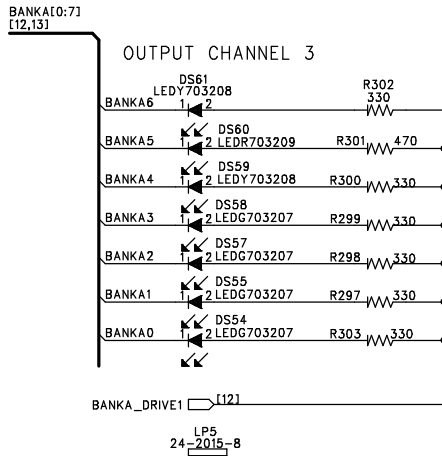
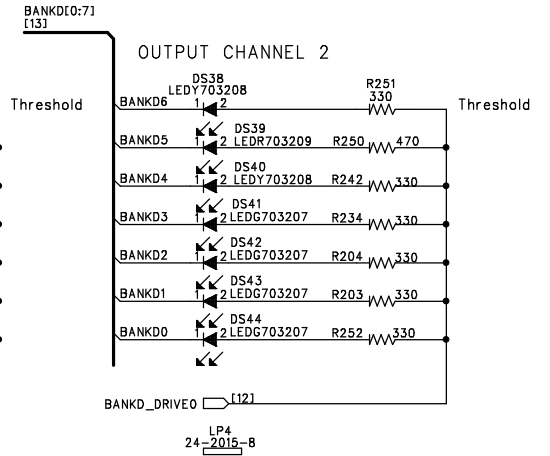
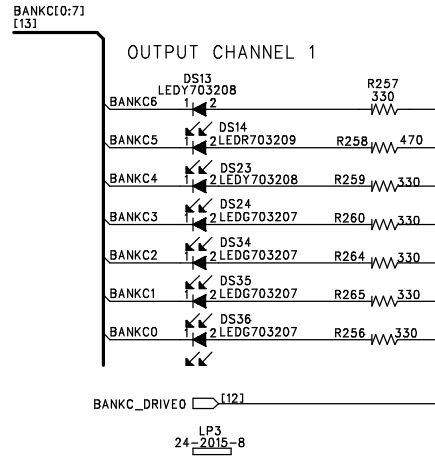
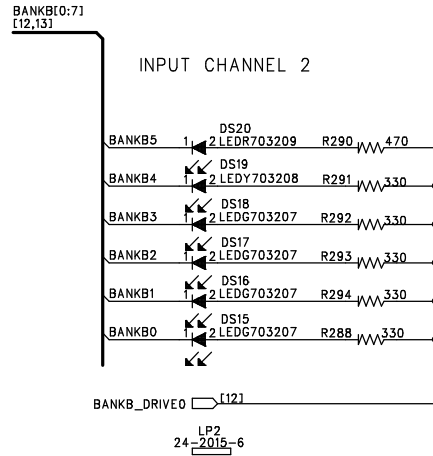
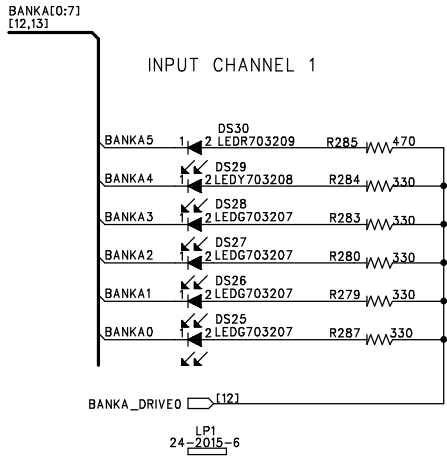
Analog Ground Test Points



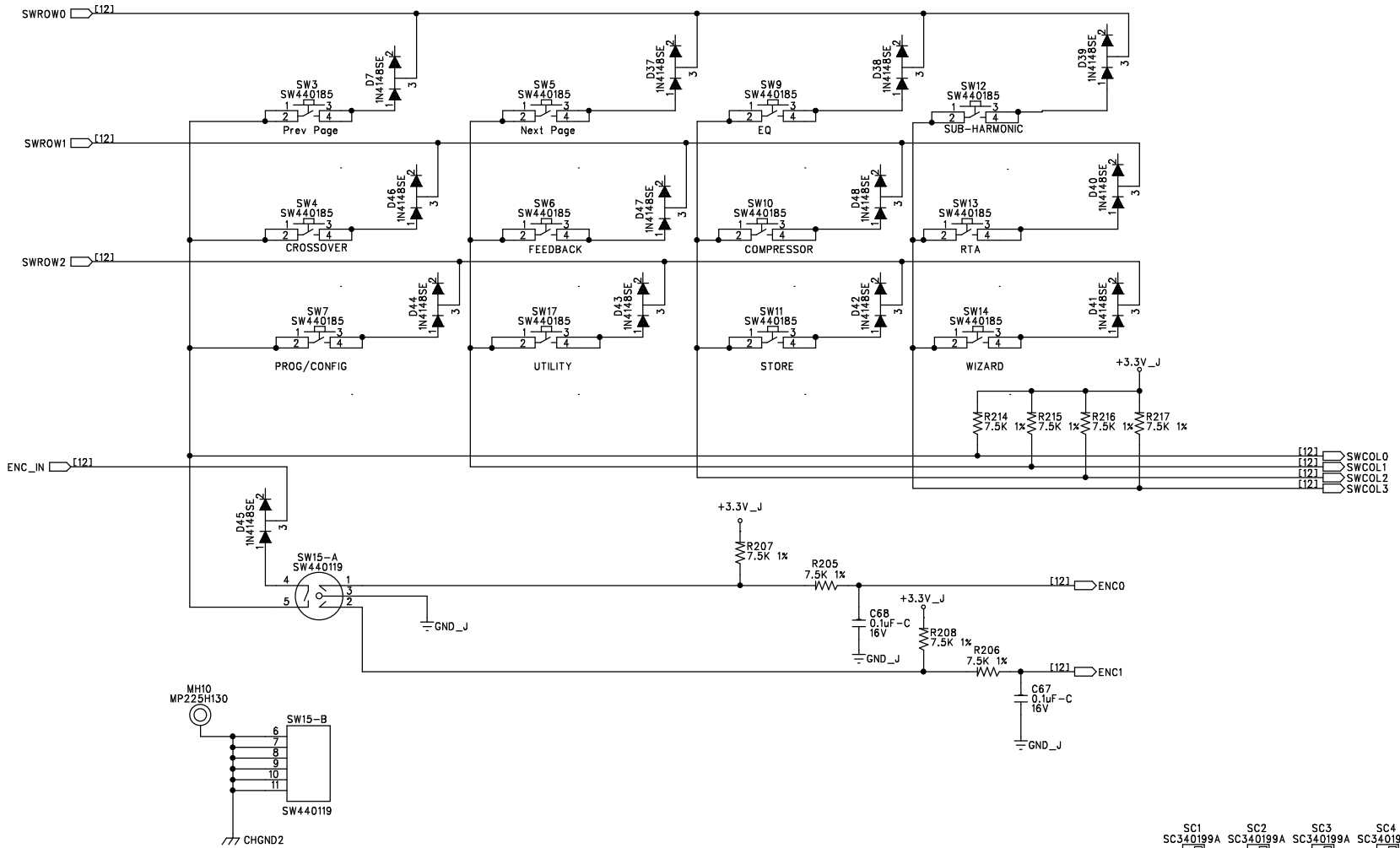
SIZE: A	SHEET TITLE: DIGITAL POWER GATES	REVISION: A2
DATE: 4-9-02	DRAWING NO: 05-1790	SHEET: 10 OF 15



SIZE: A	SHEET TITLE: ANALOG POWER GATES	REVISION: A2
START DATE: 4-9-02	DRAWING NO: 05-1790	SHEET: 11 OF 15

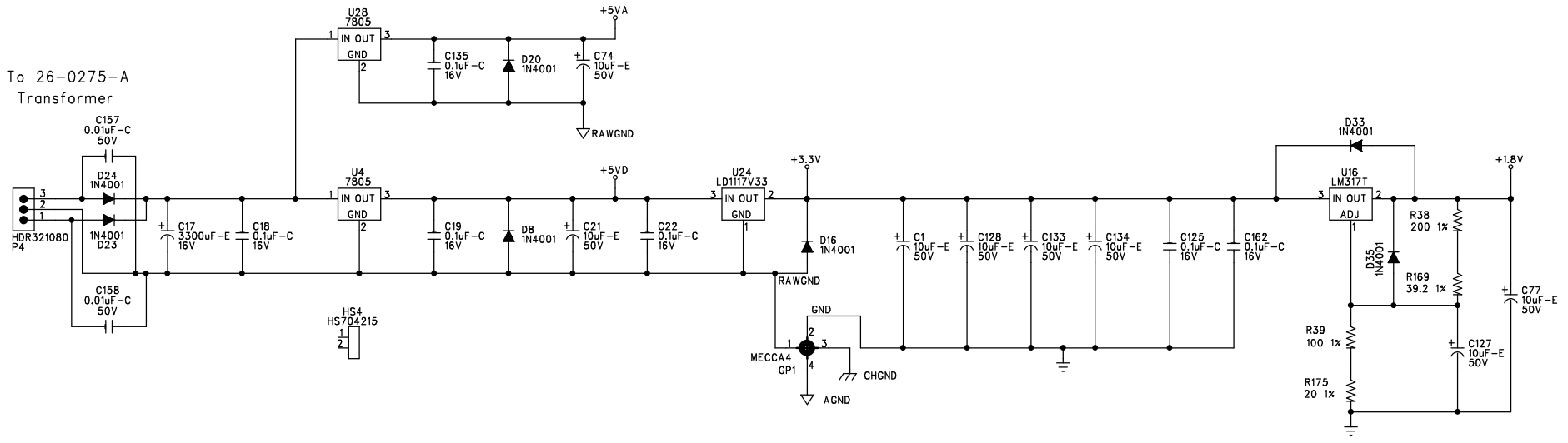
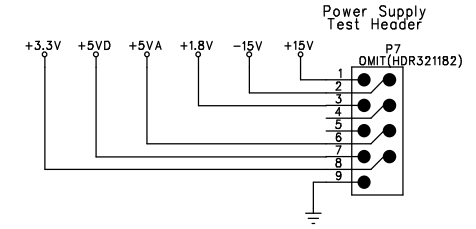
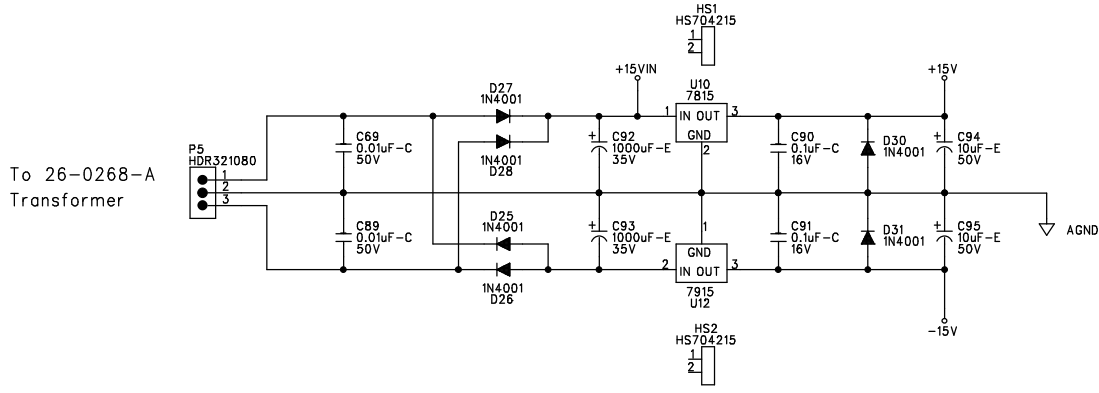


SIZE: A	SHEET TITLE: FRONT PANEL - METER LEDS	REVISION: A2
START DATE: 4-9-02	DRAWING NO: 05-1790	SHEET: 13 OF 15



- SC1 SC340199A
- SC2 SC340199A
- SC3 SC340199A
- SC4 SC340199A
- SC5 SC340199A
- SC6 SC340199A
- SC7 SC340199A
- SC8 SC340199A
- SC9 SC340199A
- SC10 SC340199A
- SC11 SC340199A
- SC12 SC340199A

SIZE:	FRONT PANEL - SWITCHES		REV: A2
DATE:	4-9-02	05-1790	SHEET: 14 OF 15



SIZE: A	SHEET TITLE: POWER SUPPLY	REVISION: A2
DATE: 4-9-02	DRAWING NO: 05-1790	SHEET: 15 OF 15

Bill Of Materials for 051790a2.sch on Tue Apr 16 16:31:54 2002

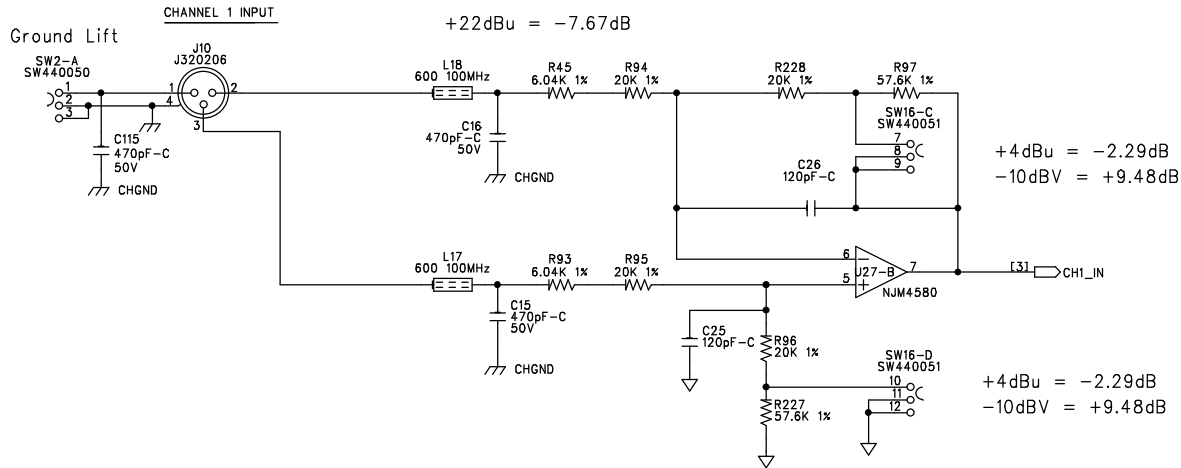
Qty	Reference	HMG#	Description	Audit	Schematic Part	PCB Decal
1	PCB1	80-1790	PCB 80-1790 dbx DriveRack 1000 MAIN PCB	PTxxxx	80XXXXXX	BARCODE
10	A6-9 A14-15 A17-18 A20 A22	NON-PART	NON-PART, PCB ONLY, BREAKOFF PART	PT1481	BRKOFF	BRKOFF
12	C6-7 C28 C30 C35-36 C41-42 C47-48 C189-190	56-0000	CAP 0.001uF FILM PTR 100V 5% AF TA	PT1629	C0.001UF100JR	RFCC200
1	C83	56-0005	CAP 0.0068uF FILM PTR 100V 5% RF TA	PT1307	C0.0068UF100JR	RFDC200
4	C69 C89 C157-158	62-1311	CAP 0.01uF CER 50V 20% Y5V 0603 TA	PT2665	C0.01UC50M0603	0603
2	C52 C97	56-0033	CAP 0.027uF FILM PTR 100V 5% RF TA	PT1282	C0.027UF100JR	RFEF200
93	C3-5 C18-20 C22 C27 C34 C40 C46 C57-68 C71-72 C75-76 C78 C90-91 C105-108 C110 C113-114 C116-120 C122 C125 C129-130 C132 C135 C160-164 C168-169 C171-176 C181-188 C192 C196-210 C212-214 C216 C240 C242-244	62-1310	CAP 0.1uF CER 16V 20% Y5V 0603 TA	PT2696	C0.1UC16M0603	0603
1	C191	OMIT	OMIT CAP 0.1uF CER 16V 20% Y5V 0603 TA (62-1310)	PT2711	C0.1UC16M06030	0603
2	C87-88	56-0012	CAP 0.1uF FILM MTPPT 50V 5% RF TA	PT1200	C0.1UF50JR	RFEC200
2	C215 C217	62-3209	CAP 0.22uF CER 50V 10% X7R 1206 TA	PT2271	C0.22UC50K1206	1206
4	C226-229	62-1308	CAP 1000pF CER 50V 20% Y5V 0603 TA	PT2651	C1000PC50M0603	0603
2	C92-93	60-1073	CAP 1000uF EL 35V 20% HT 13x25R 5LL BK	PT1971	C1000UE35MR1	REQ200P
4	C79-81 P1	60-0055	CAP 100uF EL 25V 20% GP 6x11R 5LS TA	PT1407	C100UE25MR	REG200P
18	C1 C21 C74 C77 C94-95 C127-128 C133-134 C170 C193-195 C211 C218-219 C241	60-1074	CAP 10uF EL 50V 20% HT 5x11R 5LS TA	PT1972	C10UE50MR1	REE200P
20	C2 C11-12 C23-26 C56 C73 C82 C84 C96 C98-100 C111-112 C136-138	62-1304	CAP 120pF CER 50V 5% NPO 0603 TA	PT2655	C120PC50J0603	0603
6	C155-156 C222-225	62-1300	CAP 15pF CER 50V 5% NPO 0603 TA	PT2659	C15PC50J0603	0603
2	C126 C131	62-0000	CAP 2.2uF CER 6.3V +80/-20% Y5V 0603 TA	PT2787	C2.2UC6.3Z0603	0603
1	C70	60-0010	CAP 22uF EL 35V 20% GP 5x11R 5LS TA	PT2110	C22UE35MR	REE200P
10	C14 C33 C39 C45 C51 C147 C149 C152 C154 C165	60-0402	CAP 22uF ELNP 25V 20% GP 6x11R 5LS TA	PT1084	C22UN25MR	REG200
1	C17	60-1072	CAP 3300UF ELEC 16V 20% 13x25 BULK 105c	PT1999	C3300UE16MR	REQ200P
8	C53 C109 C143 C145 C148 C150-151 C153	62-1306	CAP 330pF CER 50V 10% X7R 0603 TA	PT2653	C330PC50K0603	0603
8	C9-10 C15-16 C29 C85-86 C115	62-1307	CAP 470pF CER 50V 10% X7R 0603 TA	PT2652	C470PC50K0603	0603
3	C123-124 C140	62-1302	CAP 47pF CER 50V 5% NPO 0603 TA	PT2657	C47PC50J0603	0603
4	C54-55 C101-102	60-0054-01	CAP 47uF EL 16V 20% GP 5x11R 5LS TA	PT1108	C47UE16MR	REE200P
18	C8 C13 C31-32 C37-38 C43-44 C49-50 C103-104 C121 C139 C141-142 C144 C146	62-1303	CAP 68pF CER 50V 5% NPO 0603 TA	PT2656	C68PC50J0603	0603
13	D8 D16 D20 D23-28 D30-31 D33 D35	70-0000	DIO 1N4001 50V 1 AMP AMMO TA	PT1003	D1N4001-R	RDB200
25	D1-7 D9 D13-15 D21-22 D37-48	70-0113	DIO MMBD4148SE DUAL 75V 600mA SOT-23 TA	PT1326	D1N4148SE-S	SOT-23
5	A1-5	NON-PART	NON-PART, FIDUCIAL, TARGET FOR AUTO INSERTION	PT1271	FIDUCIAL	FIDUCIAL

2	J7 J9	32-0172	HCN CONN 30 PIN .5 MM CNTS 1X30 FML RA	PT2724 HCN320172	HC320172
1	J12	32-0176	HCN CONN 20 PIN FEM VRT MNT SMT	PT2773 HCN320176	HC102V079050FS
1	P3	32-1055	HDR, 20 PIN, 0.1" SPC, 2 X 10, VERT, MALE	PT1340 HDR321055	HC102
2	P4-5	32-1080	HDR, 3 PIN, 0.1" SPC, 1 X 3, LCK, R/A, MALE	PT1073 HDR321080	HC3L
1	P1-A	OMIT	OMIT HDR 3 PIN 0.1" SPC 1 X 3 VERT MALE CUT FROM 14 PIN (32-1067)	PT2703 HDR321067-O	HC31
1	P2	OMIT	OMIT HDR 5 PIN 0.1" SPC 1 X 5 VERT MALE	PT2788 HDR321074-O	HC51M
1	P21	OMIT	OMIT HDR 14 PIN 0.1" SPC 2 X 7 VERT MALE (32-1083)	PT2127 HDR321083-O	HC72
1	H1	OMIT	OMIT, HDR, 5 PN, 0.079" SP, 1 X 5, 0.020" PS LK SD PO VT MA (32-1101)	PT1825 HDR321101-O	HC579LSFPM
1	P7	OMIT	OMIT, HDR, 9 PIN, 0.1" SPC, PIN 10 MISSING, VERT, MALE, (32-1182)	PT1121 HDR321182-O	HDR321182
3	HS1-2 HS4	70-4215	HEATSINK, TO-220, VERT	PT1339 HS704215	HS704215
3	J3 J8 J10	32-0206	CON, JACK, XLR, R/A, PCA A SERIES	PT1219 J320206	XLRF-1
1	DS1	70-2114	LED, GRN, T1, RLC100, AMMO	PT1059 LEDG702114	RLC100
38	DS2 DS5 DS7-8	70-3207	LED GREEN D1206 T&R	PT1902 LEDG703207	D1206
	DS10-11 DS15-18				
	DS24-28 DS34-36				
	DS41-48 DS54-55				
	DS57-58 DS63-64				
	DS66-67 DS72-75				
10	DS9 DS14 DS20	70-3209	LED RED D1206 T&R	PT1901 LEDR703209	D1206
	DS30-31 DS39 DS50				
	DS60 DS69 DS78				
19	DS3-4 DS6 DS12-13	70-3208	LED YELLOW D1206 T&R	PT1900 LEDY703208	D1206
	DS19 DS23 DS29 DS33				
	DS38 DS40 DS49 DS51				
	DS59 DS61 DS68 DS70				
	DS76 DS79				
9	L1 L3-4 L6 L11-12	26-0000	IND FBD 600 OHM @ 100Hz 200mA 0603 TA	PT2728 LFB260000	0603
	L16-18				
18	L2 L9-10 L13-15	26-0001	IND FBD 2.5K OHM @ 100Hz, 50mA 0603 TA	PT2729 LFB260001	0603
	L19-30				
3	L5 L7 R150	26-0217	IND FBD 2.5K OHM @ 70MHz 0805 TA	PT1261 LFB260217	0805
2	LP1-2	NON-PART	NON-PART 6 POS NOT INSTALLED UNTIL MECHANICAL ASSY(LIGHT PIPE)	PT1967 LP242015-6	LP242015-6
6	LP3-8	NON-PART	NON-PART 8 POS NOT INSTALLED UNTIL MECHANICAL ASSY(LIGHT PIPE)	PT1968 LP242015-8	LP242015-8
1	GP1	NON-PART	NON-PART MECCA GND/PWR TIE POINT 4 POS	PT2482 MECCA4	MECCA4
6	MH3-6 MH8 MH12	NON-PART	NON-PART, MOUNTING HOLE, 0.130" NON-PLATED, #4	PT1242 MH130	MH130
2	MH1-2	NON-PART	NON-PART, TOOLING PIN HOLE, 156MIL HOLE	PT1416 MH156-TOOL	MH156-TOOL
1	MH10	NON-PART	NON-PART MECHANICAL PLATED HOLE 225 PAD 130 HOLE #4	PT1998 MP225H130	MP225H130
5	MP1-5	NON-PART	NON-PART, MECHANICAL PLATED HOLE, 300 PAD, 156 HOLE, #6	PT1045 MP300H156	MP300H156
6	J1-2 J4-6 J11	32-0204	CON, PLUG, XLR, R/A, PCA A SERIES	PT1218 P320204	XLRM-1
1	Q1	70-1035	XSTR, 2N44402, PNP, SIGNAL, TO-92, AMMO	PT1527 Q2N4402	TO92(EBC)-V
10	Q2-3 Q8-15	70-1058	XSTR, 2N3904, NPN, SOT-23, T&R	PT1203 Q2N3904-S	SOT-23
12	R11 R13 R35 R37	50-1300	RES 0 5% 1/16W SM 0603 TA	PT2508 R0-B5-0603	0603
	R222 R277 R344-346				
	R356 R359-360				
7	R8 R10 R12 R58-59	OMIT	OMIT RES 0 5% 1/16W SM 0603 TA (50-1300)	PT2509 R0-B5-0603O	0603
	R289 R295				
7	R157-158 R167-168	50-0317	RES 0 5% 1/4W CF RR TA	PT1008 R0-E5-R	RRA200
	R170-172				
1	R160	OMIT	OMIT RES 0 5% 1/4W CF RR TA (50-0317)	PT1596 R0-E5-RO	RRA200
2	R163-164	52-1340	RES 10.7K 1% 1/16W SM 0603 TA	PT2592 R10.7KB1-0603	0603
8	R7 R39 R54 R183-184	52-1304	RES 100 1% 1/16W SM 0603 TA	PT2512 R100-B1-0603	0603
	R312 R338-339				
4	R103-104 R253-254	52-1360	RES 100K 1% 1/16W SM 0603 TA	PT2613 R100KB1-0603	0603
38	R1-4 R6 R14 R20 R23	52-1338	RES 10K 1% 1/16W SM 0603 TA	PT2584 R10KB1-0603	0603
	R49 R56 R112 R118				
	R124 R130 R136 R143				
	R159 R185-188				
	R192-193 R197 R199				
	R201 R209 R212-213				
	R218-219 R223 R236				
	R244 R334 R340				
	R383-384				

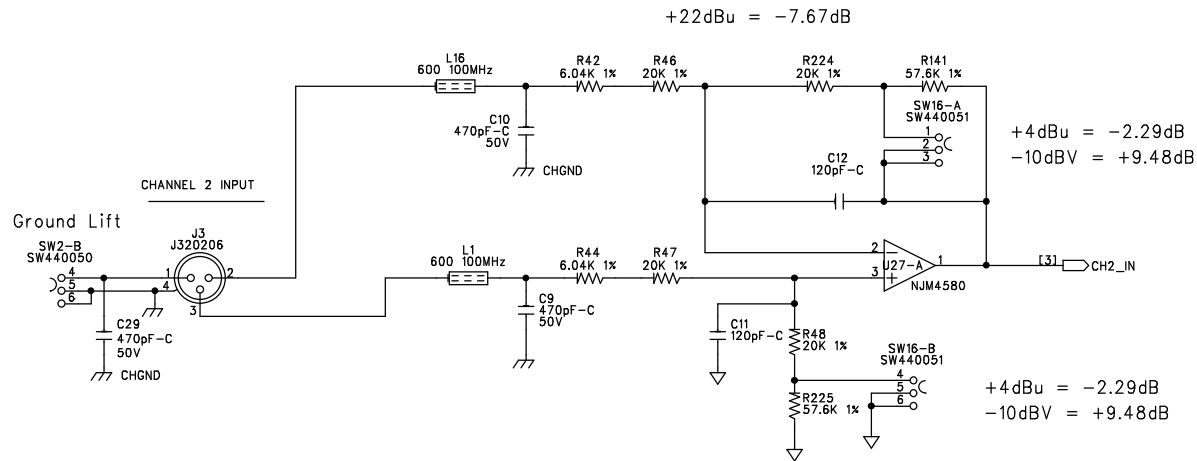
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1	R267	52-1362	RES 150K 1% 1/16W SM 0603 TA	PT2615 R150KB1-0603	0603
1	R153	52-1344	RES 15K 1% 1/16W SM 0603 TA	PT2596 R15KB1-0603	0603
4	R92 R149 R233 R235	52-1305	RES 169 1% 1/16W SM 0603 TA	PT2513 R169-B1-0603	0603
15	R28-29 R36 R156 R173-174 R210-211 R266 R269-274	52-1313	RES 1K 1% 1/16W SM 0603 TA	PT2550 R1KB1-0603	0603
1	R336	52-1372	RES 1M 1% 1/16W SM 0603 TA	PT2625 R1MB1-0603	0603
4	R74 R90 R226 R232	52-1317	RES 2.21K 1% 1/16W SM 0603 TA	PT2555 R2.21KB1-0603	0603
10	R24 R66 R83 R109 R121 R133 R146 R190 R231 R247	52-1319	RES 2.67K 1% 1/16W SM 0603 TA	PT2557 R2.67KB1-0603	0603
2	R175 R337	52-1300	RES 20 1% 1/16W SM 0603 TA	PT2507 R20-B1-0603	0603
15	R38 R176-182 R189 R191 R194-196 R332-333	52-1306	RES 200 1% 1/16W SM 0603 TA	PT2514 R200-B1-0603	0603
1	R43	50-1308	RES 200 5% 1/16W SM 0603 TA	PT2526 R200-B5-0603	0603
8	R46-48 R94-96 R224 R228	52-1346	RES 20K 1% 1/16W SM 0603 TA	PT2598 R20KB1-0603	0603
1	R255	52-1364	RES 221K 1% 1/16W SM 0603 TA	PT2617 R221KB1-0603	0603
12	R75 R82 R98-100 R154-155 R221 R229-230 R241 R262	52-1316	RES 2K 1% 1/16W SM 0603 TA	PT2553 R2KB1-0603	0603
12	R5 R26 R50 R110 R113 R122 R125 R134 R137 R147 R237 R248	52-1322	RES 3.16K 1% 1/16W SM 0603 TA	PT2560 R3.16KB1-0603	0603
6	R41 R111 R123 R135 R148 R249	52-1323	RES 3.24K 1% 1/16W SM 0603 TA	PT2561 R3.24KB1-0603	0603
26	R25 R31-33 R60-63 R68-71 R76-79 R84-87 R105 R165 R321-322 R357-358	52-1324	RES 3.32K 1% 1/16W SM 0603 TA	PT2562 R3.32KB1-0603	0603
48	R9 R67 R203-204 R234 R242 R251-252 R256-257 R259-260 R264-265 R279-280 R283-284 R287-288 R291-294 R297-300 R302-305 R307-310 R313-316 R318-320 R323 R325-328	50-1309	RES 330 5% 1/16W SM 0603 TA	PT2528 R330-B5-0603	0603
2	R161-162	52-1307	RES 332 1% 1/16W SM 0603 TA	PT2543 R332-B1-0603	0603
6	R101-102 R152 R261 R263 R275	50-1325	RES 33K 5% 1/16W SM 0603 TA	PT2589 R33KB5-0603	0603
1	R169	52-1301	RES 39.2 1% 1/16W SM 0603 TA	PT2515 R39.2-B1-0603	0603
1	R382	50-1326	RES 39K 5% 1/16W SM 0603 TA	PT2629 R39KB5-0603	0603
13	R21-22 R107-108 R119-120 R131-132 R144-145 R245-246 R364	52-1327	RES 4.53K 1% 1/16W SM 0603 TA	PT2565 R4.53KB1-0603	0603
1	R16	50-1317	RES 4.7K 5% 1/16W SM 0603 TA	PT2541 R4.7KB5-0603	0603
11	R151 R250 R258 R285 R290 R301 R306 R317 R324 R329 R365	50-1310	RES 470 5% 1/16W SM 0603 TA	PT2529 R470-B5-0603	0603
1	R30	50-1335	RES 470K 5% 1/16W SM 0603 TA	PT2643 R470KB5-0603	0603
2	R330-331	52-1356	RES 49.9K 1% 1/16W SM 0603 TA	PT2609 R49.9KB1-0603	0603
6	R198 R202 R278 R286 R296 R311	52-1308	RES 499 1% 1/16W SM 0603 TA	PT2545 R499-B1-0603	0603
6	R19 R55 R117 R129 R142 R243	52-1331	RES 5.76K 1% 1/16W SM 0603 TA	PT2576 R5.76KB1-0603	0603
4	R97 R141 R225 R227	52-1357	RES 57.6K 1% 1/16W SM 0603 TA	PT2610 R57.6KB1-0603	0603

22	R15 R42 R44-45 R51 R91 R93 R114 R126 R138 R200 R238 R335 R341-343 R347 R349 R351 R353-355	52-1332	RES 6.04K 1% 1/16W SM 0603 TA	PT2577	R6.04KB1-0603	0603
12	R17-18 R52-53 R115-116 R127-128 R139-140 R239-240	52-1303	RES 60.4 1% 1/16W SM 0603 TA	PT2511	R60.4-B1-0603	0603
1	R268	50-1328	RES 62K 5% 1/16W SM 0603 TA	PT2632	R62KB5-0603	0603
1	R220	50-1311	RES 680 5% 1/16W SM 0603 TA	PT2531	R680-B5-0603	0603
9	R205-208 R214-217 R276	52-1335	RES 7.5K 1% 1/16W SM 0603 TA	PT2581	R7.5KB1-0603	0603
2	R106 R166	52-1336	RES 8.06K 1% 1/16W SM 0603 TA	PT2582	R8.06KB1-0603	0603
1	P6	38-0001	RBN CBL 20 COND. 0.1", 4.25"	PT2772	RC20-380001	RC380001
2	SC14-15	34-0125	SWITCH CAP, BLACK, ROUND	PT1354	SC340125	SC340125-FPE
1	SC13	34-0198-C	SWITCH CAP LIGHT PIPE SNGL LED HORZ	PT2504	SC340198C	SC340198C
12	SC1-12	34-0199-A	SWITCH CAP dbx LIGHTED	PT2024	SC340199A	PCBNULL
1	S6	70-3026	SOCKET, PLCC 32, PLCC/R-32SKT	PT1419	SKT32-703026	PLCC/R-32SKT
1	SW2	44-0050	SWITCH DPDT MINI IN-OUT 6 PIN E-SWITCH	PT1256	SW440050	SW440050
2	SW1 SW16	44-0051	SWITCH, 4PDT, MINI IN-OUT, 12 PIN, E-SWITCH	PT1257	SW440051	SW440051
1	SW15	44-0119	ENCODER 20mm D SHAFT 30 POS W/SWITCH VERT MOUNT	PT1890	SW440119	SW440119
12	SW3-7 SW9-14 SW17	44-0185	SWITCH, SPST, LITE TOUCH, MINI, W/ PROJECTED PLUNGER SMT	PT1962	SW440185	SW4PTACT-3
7	TP1-2 TP4 TP8-10 TP12	NON-PART	NON-PART, TEST POINT, ENGINEERING PROBE POINT	PT1653	TESTPOINT	TESTPOINTSMT
2	U4 U28	70-4014	V-REG, 7805, +5V, 1.5 AMP, TO-220	PT1591	U7805	TO220(IGO)-V
1	U10	70-4123	V-REG, 7815, +15V, 1 AMP, TO-220	PT1592	U7815	TO220(IGO)-V
1	U12	70-4124	V-REG, 7915, -15V, 1 AMP, TO-220	PT1594	U7915	TO220(GIO)-V
1	U7	72-0046	IC 25AA640 64K SERIAL EEPROM TA	PT2774	U25AA260	SO8
1	U5	72-6318	IC 32K x 8 SRAM 15ns SOJ28	PT2294	U32K8S15-J	SOJ28-300
6	U2 U33 U36 U38 U42 U51	72-1439	IC, 5532MD, DUAL BIPOLAR OPAMP, SO8-200	PT1306	U5532MD-S	SO8-200
2	U25 U48	72-5426	IC, 74AC04, HEX INVERTER, SO14, T&R	PT1325	U74AC04-S	SO14
1	U21	72-5437	IC 74VHC273 FLIP-FLOP OCTAL-D SO20W T&R	PT1909	U74VHC273-S	SO20W
1	U17	72-0045	IC 74VHC373 OCTAL LATCH SO20W	PT2771	U74VHC373-S	SO20W
1	U44	72-0044	IC 74VHC4040 12 BIT RIPPLE COUNTER SO16	PT2759	U74VHC4040-S	SO16
1	U20	72-6316	IC 78L32P-24 8 BIT MICROCONTROLLER 3.3V	PT2316	U78L32P-24	PLCC-44
1	U11	72-1485	IC AK4356 192kHz 24 BIT 6 CHANNEL DAC	PT2717	UAK4356-Q	QFP44-10X10
1	U26	72-1266	IC, AK5383, 96 kHz, DUAL 24BIT ADC, SO28W	PT1557	UAK5383-S	SO28W
1	U1	72-6305	IC DSP56367 DSP 150MHZ QFP144-20X20	PT2452	UDSP56367-Q	QFP144-20X20
1	U24	70-4021	V-REG, LD1117V33, +3.3V, 0.8 AMP, TO-220, BULK	PT1795	ULD1117V33	TO220(GOI)-V
1	U16	70-4007	V-REG, LM317T, ADJ REG, 1.5 AMP, TO-220	PT1785	ULM317T	TO220(AOI)-V
1	U3	72-6308	IC NCP304 VOLTAGE DETECTOR SC-82AB	PT2393	UNCP304	SC-82AB
14	U8-9 U15 U19 U22-23 U27 U60-65 U70	72-1480	IC NUM4580 DUAL OP-AMP SO8	PT1374	UNJM4580-S	SO8
1	U13	72-0042-00V1	IC CPLD ispLSI2064VE dbx Driverack PA V1	PT2785	UP720042	QFP100-14X14
1	U6	72-5539-03V1	IC AM29LV040B 512K x 8 FLASH MEMORY dbx Driverack PA V1	PT2292	UP725539	PLCC/R-32
1	Y3	76-0202	XTAL 24.000MHz METAL CAN SURFACE MOUNT T&R	PT1928	Y24.000M760202	XTAL2-V
1	X7	76-0006	XTAL 24.576MHz SMT CX16F/CS49G PKG	PT2713	Y24.576M760006	YCX16F/CX49G

SC15 SC14
SC340125 SC340125

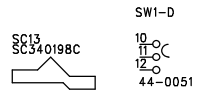
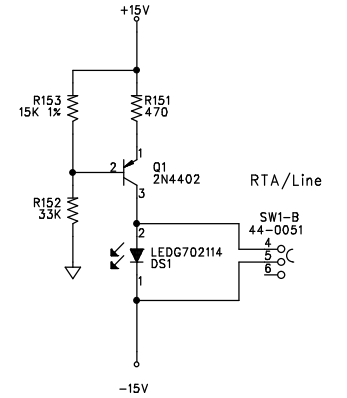
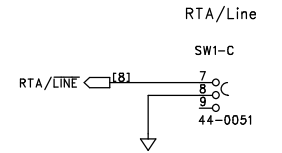
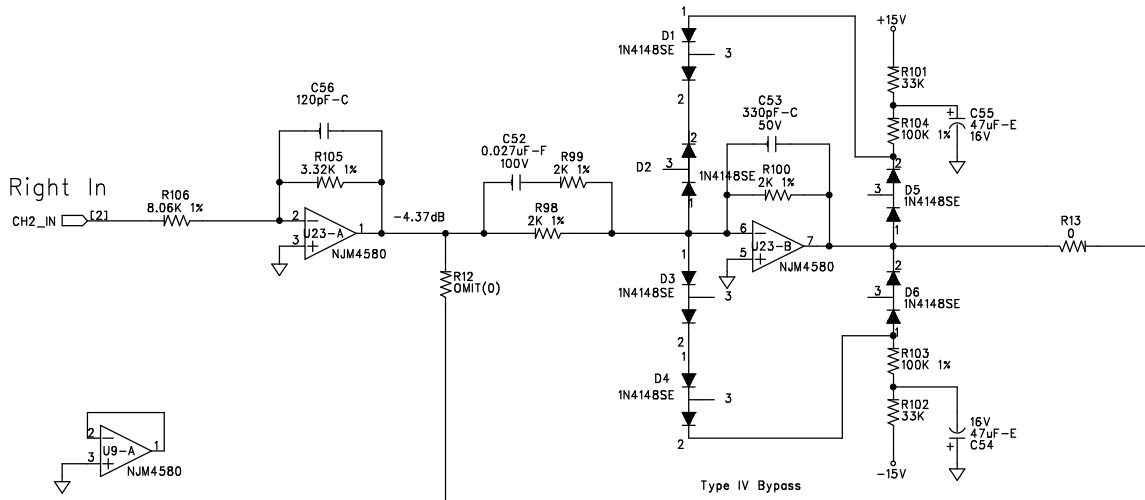
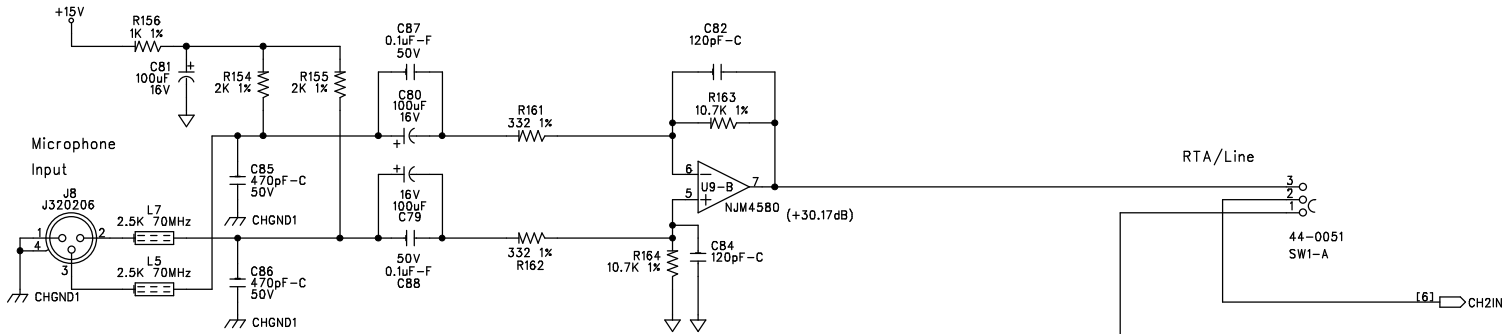
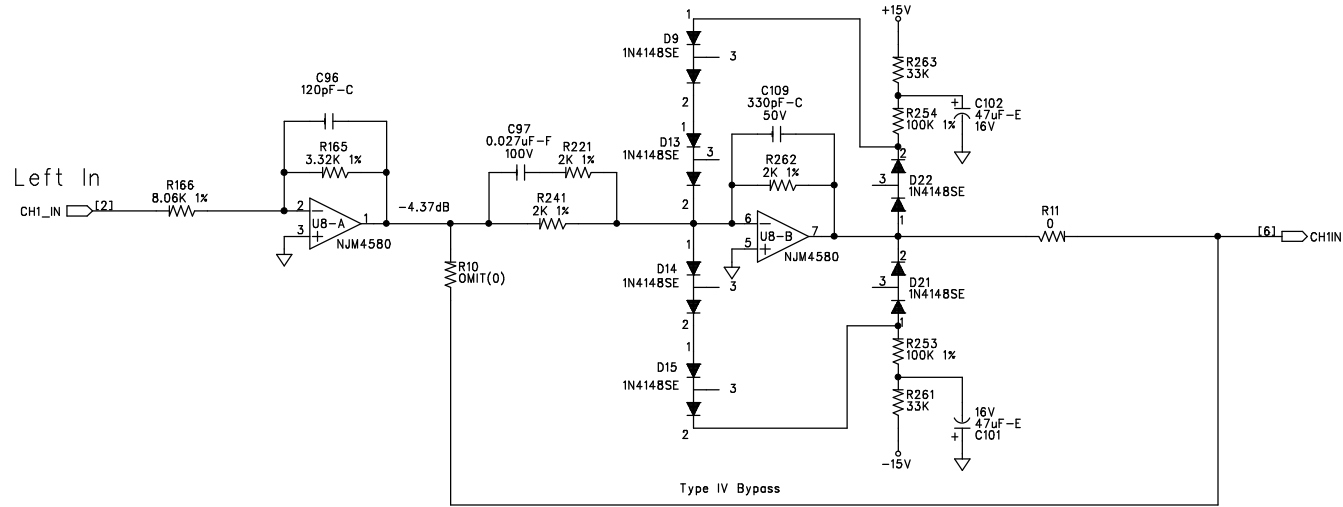


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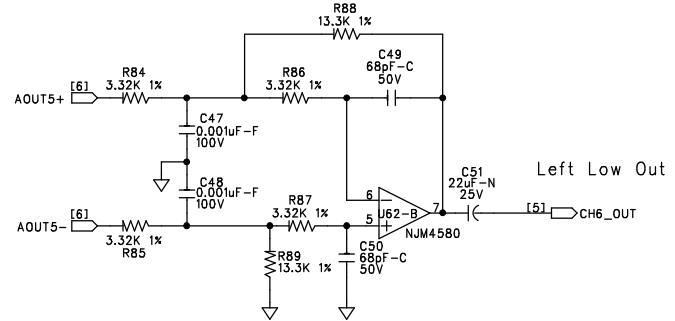
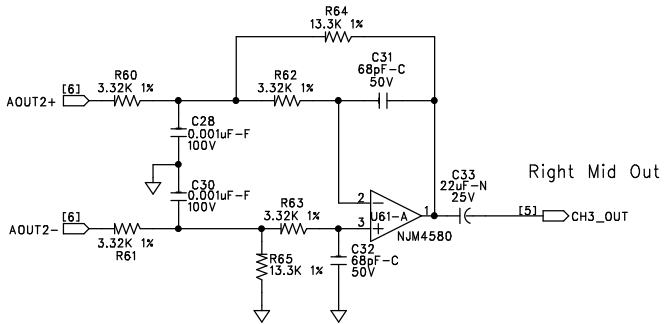
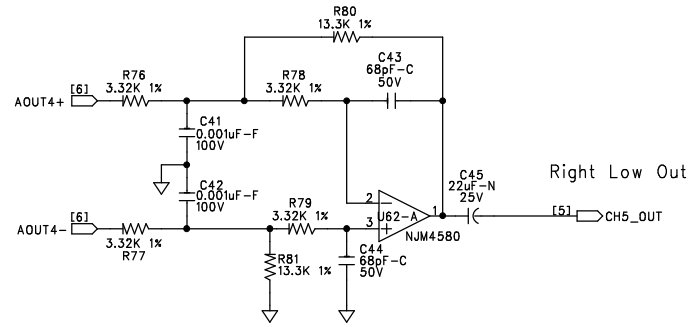
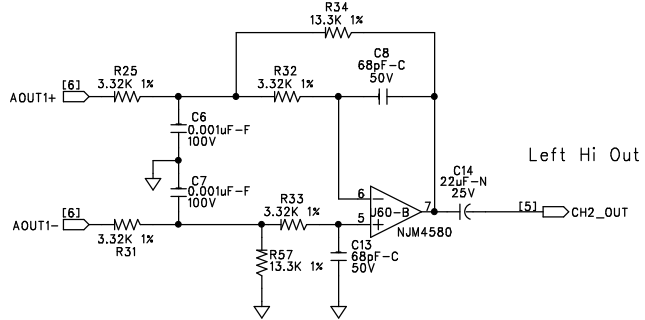
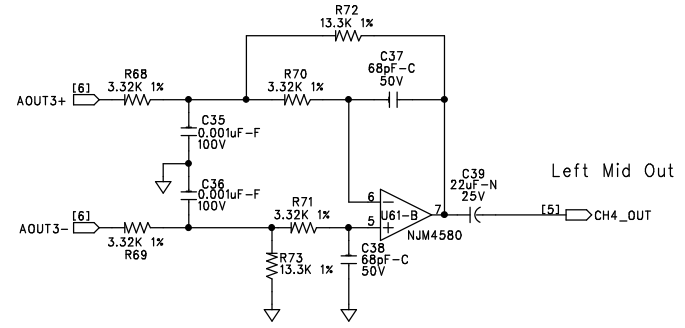
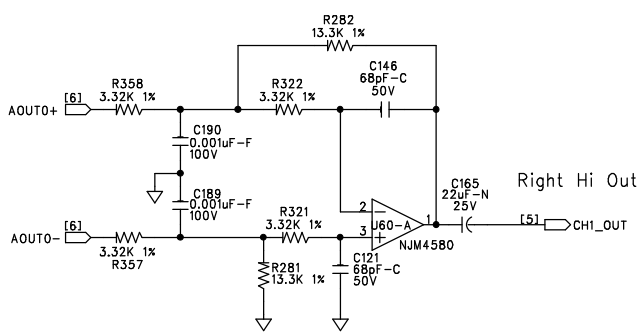


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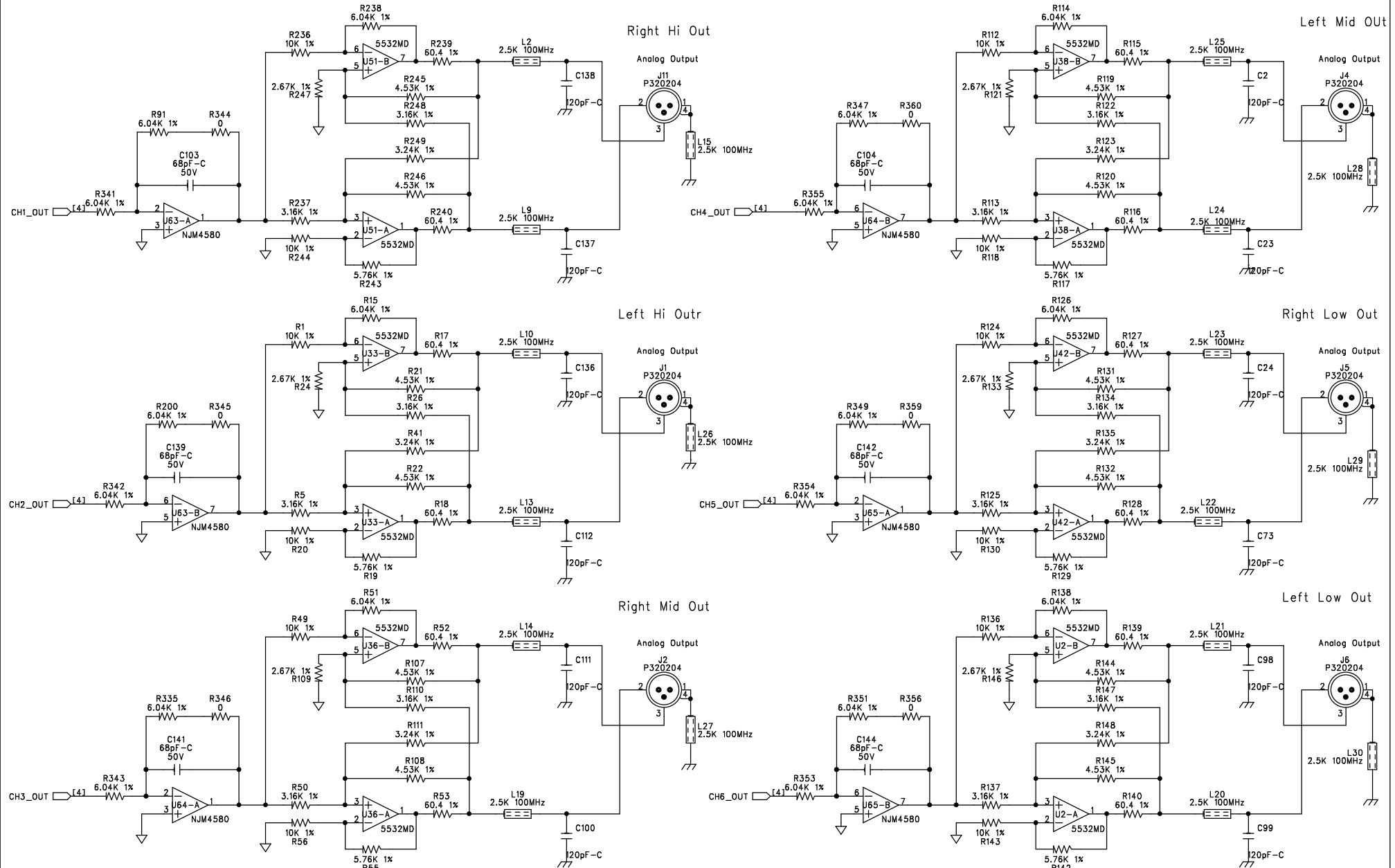
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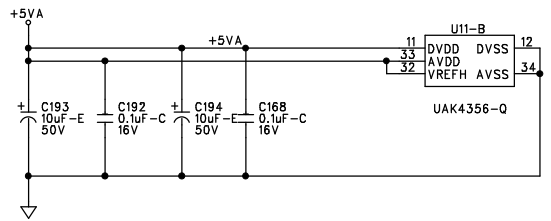
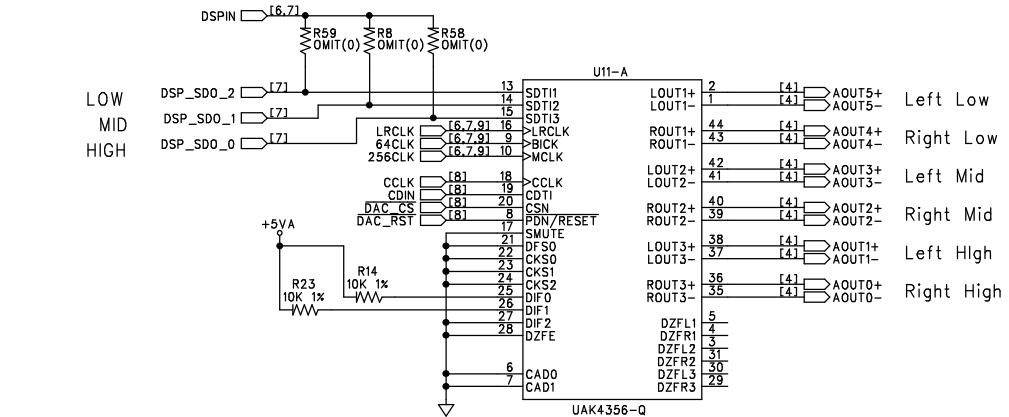
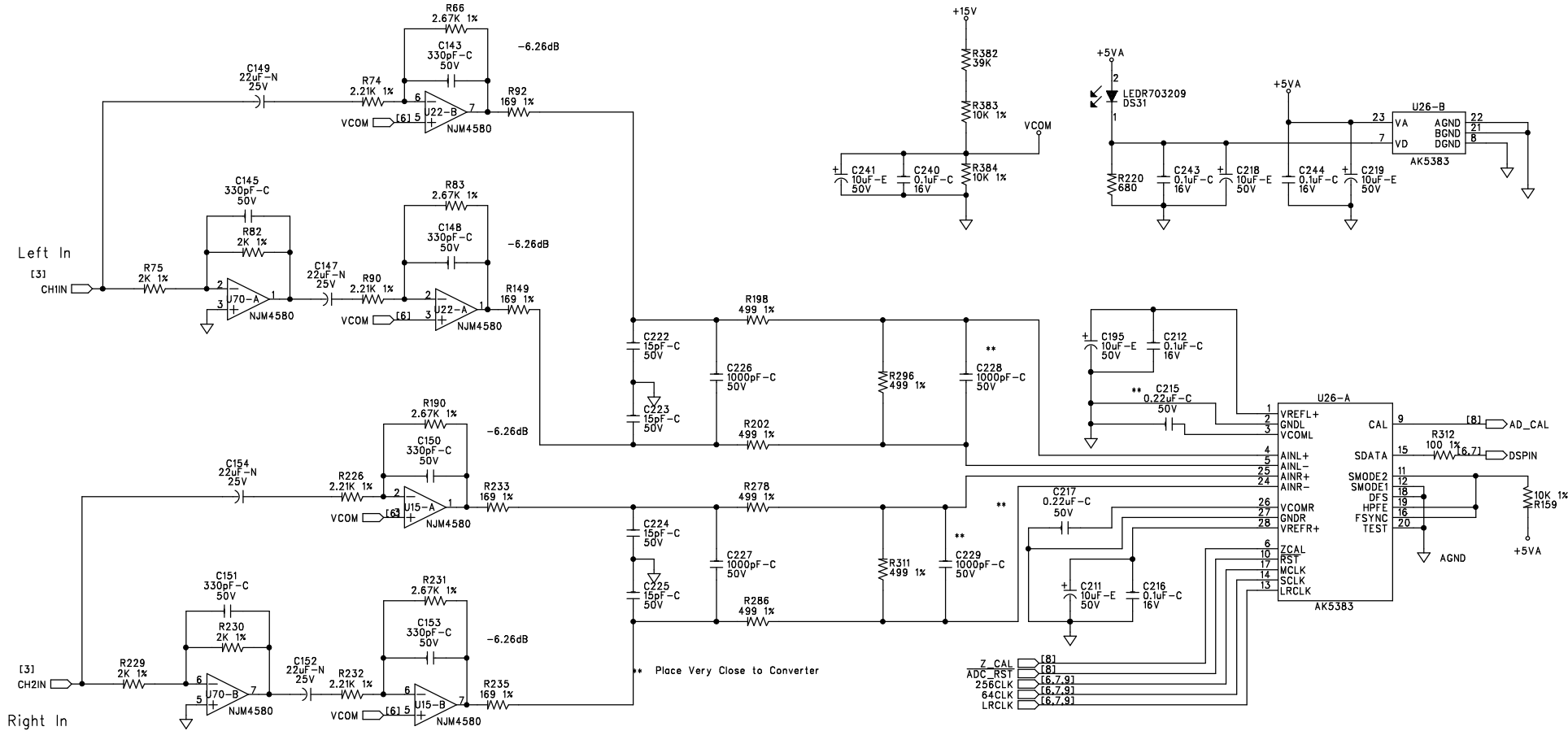
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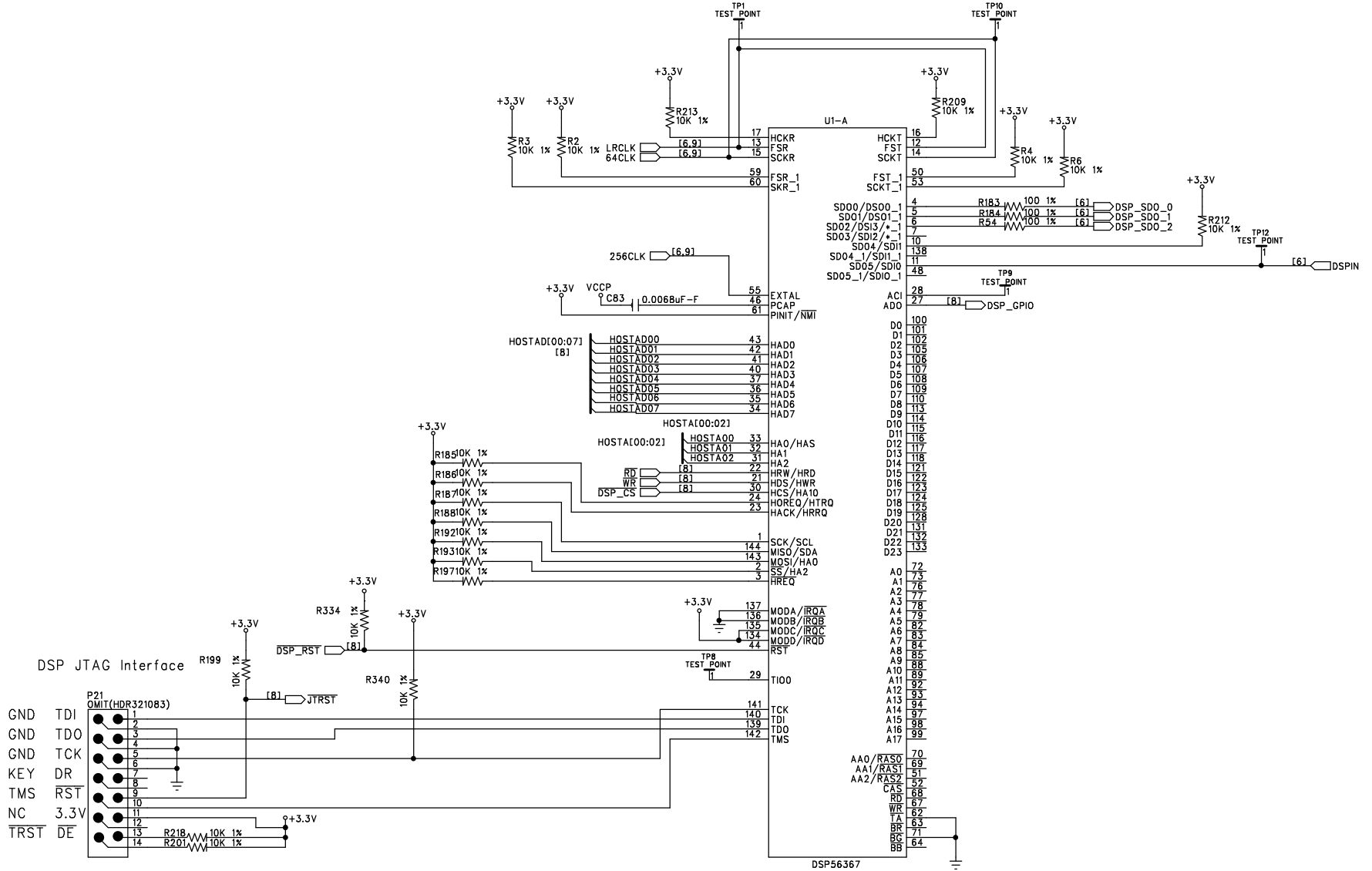


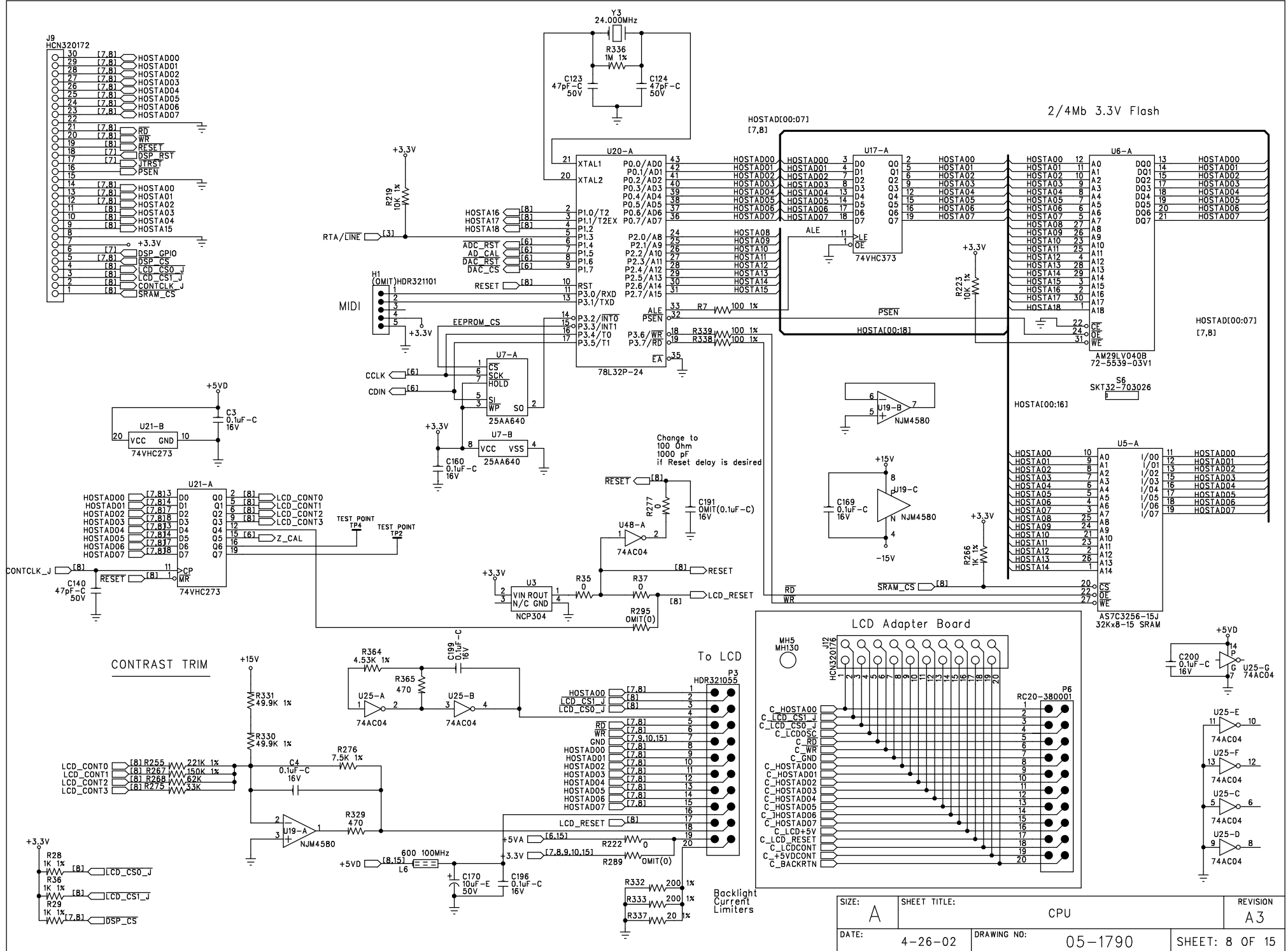
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- Z CAL [8]
- ADC_RST [8]
- 256CLK [6.7.9]
- 64CLK [6.7.9]
- LRCLK [6.7.9]

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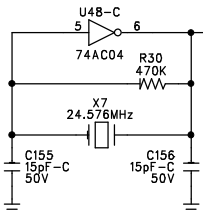




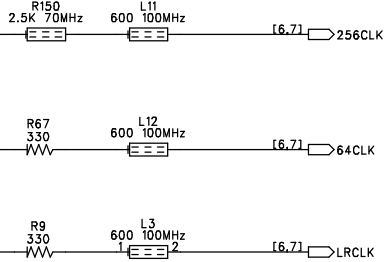
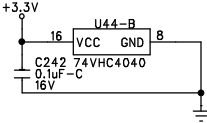
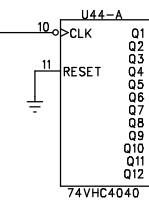
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Divider/Clock Tree

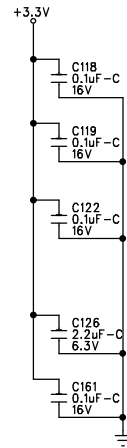
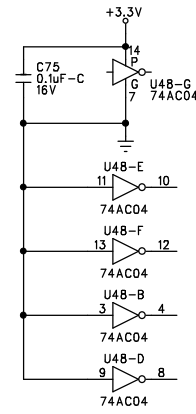
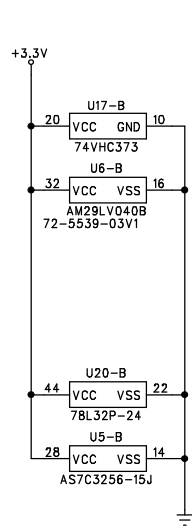
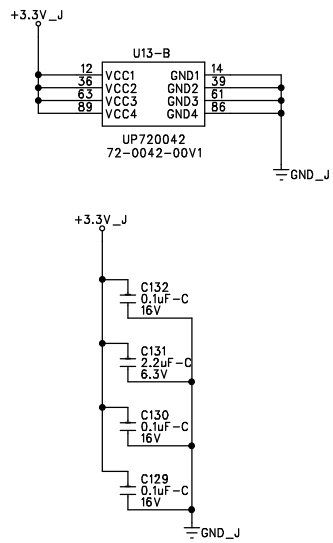
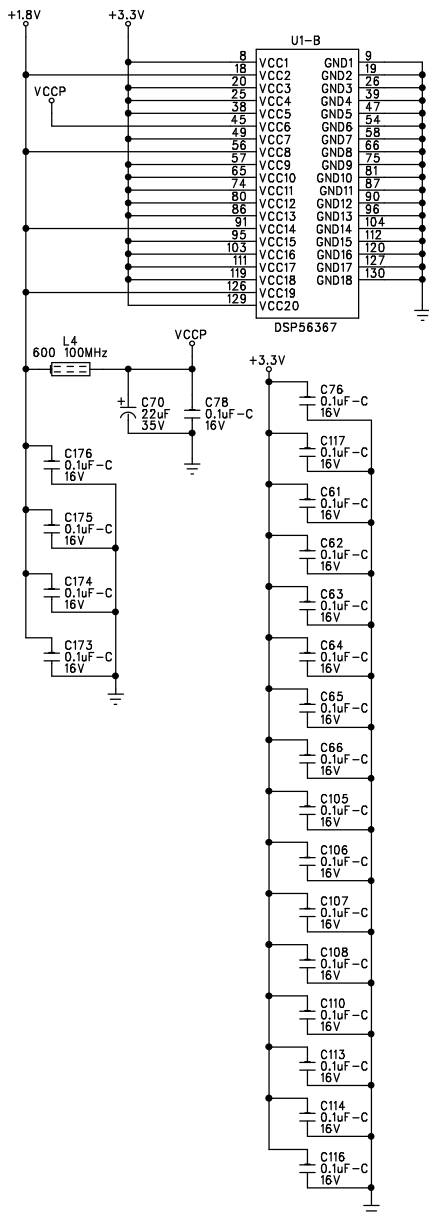
x512fs Crystal Oscillator
24.576 MHz



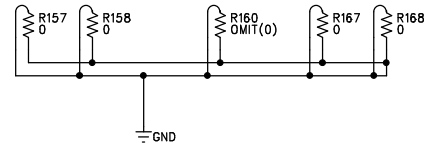
Change to 74VHC4040



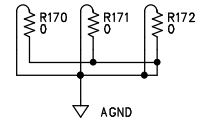
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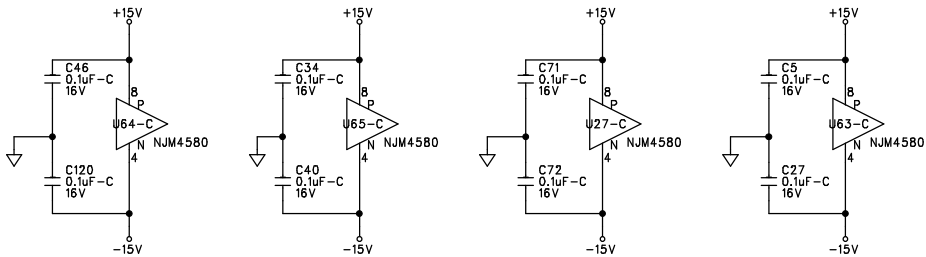
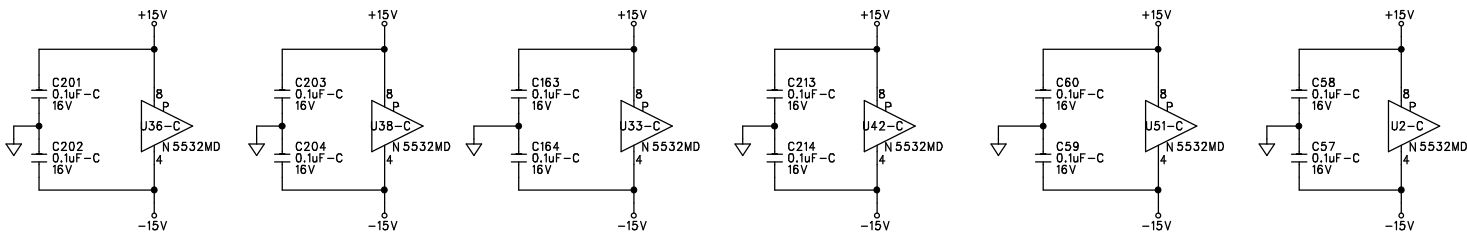
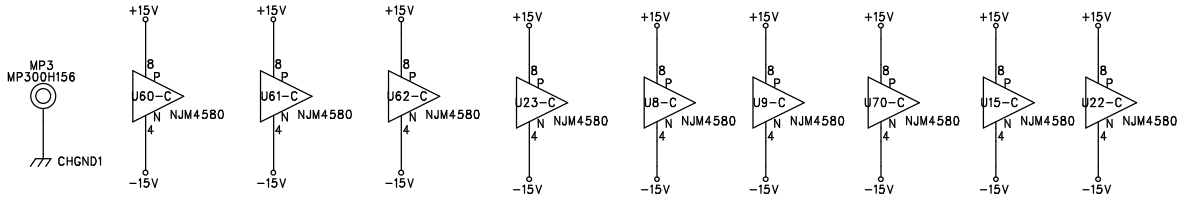
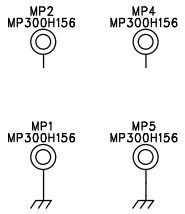
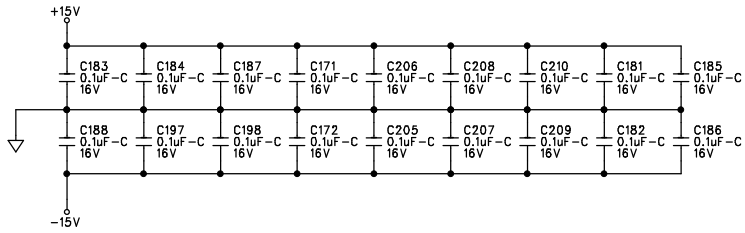
Digital Ground Test Points



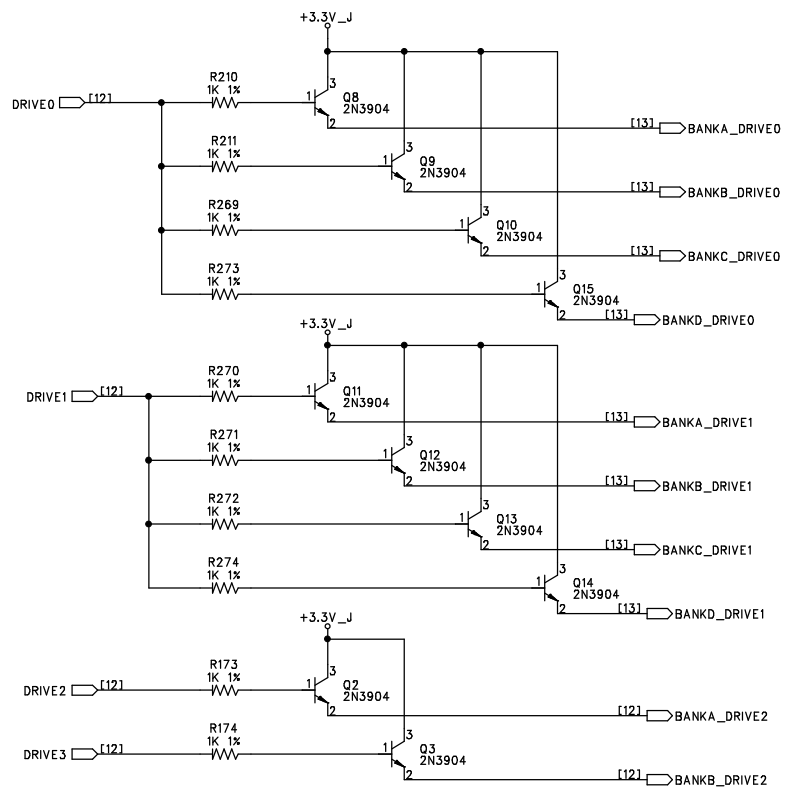
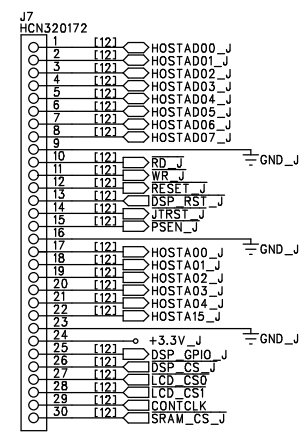
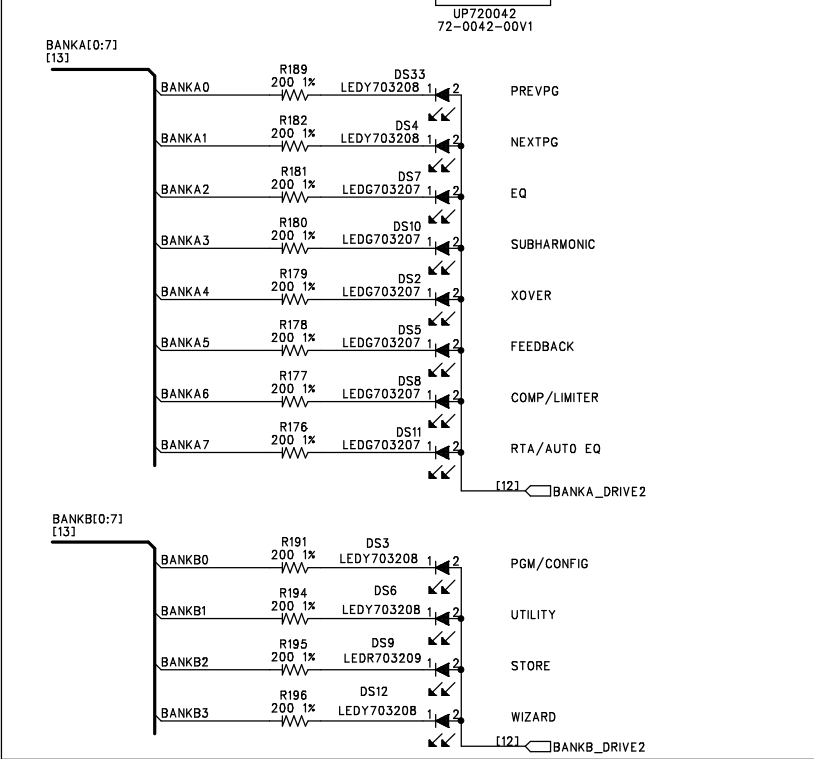
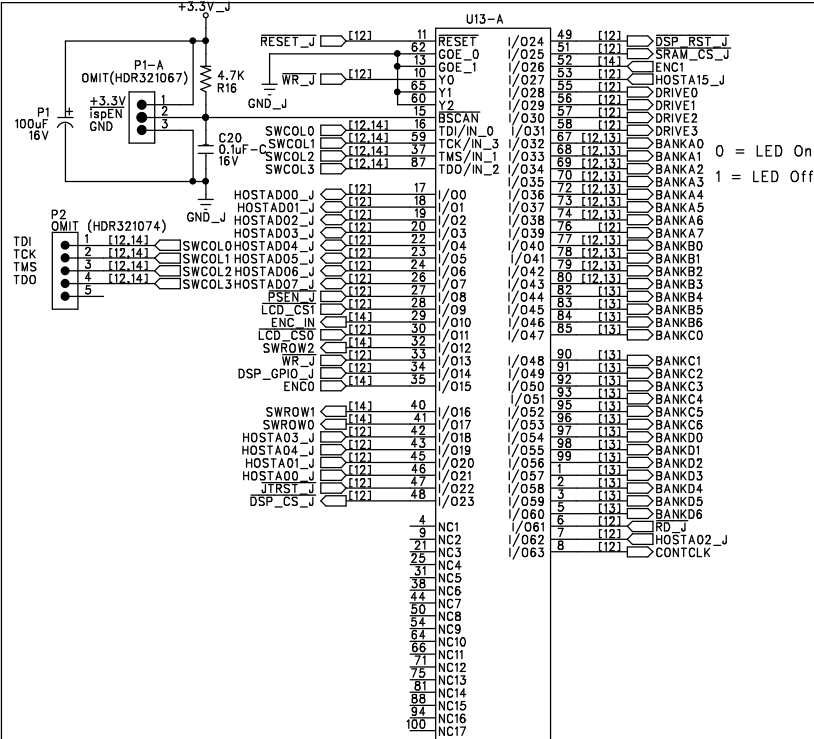
Analog Ground Test Points



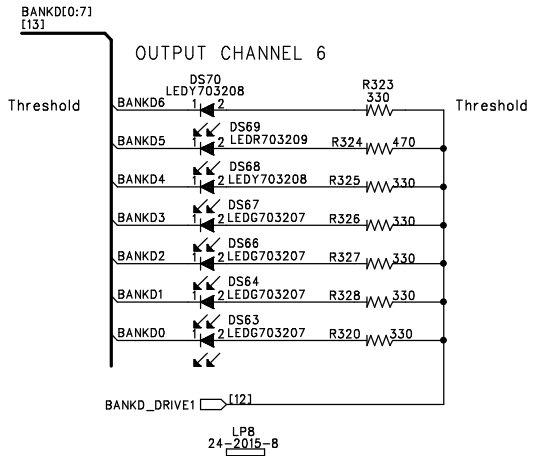
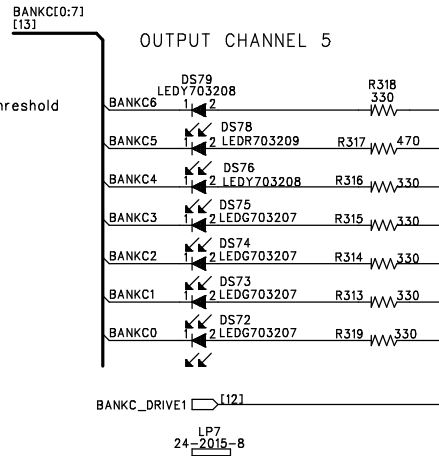
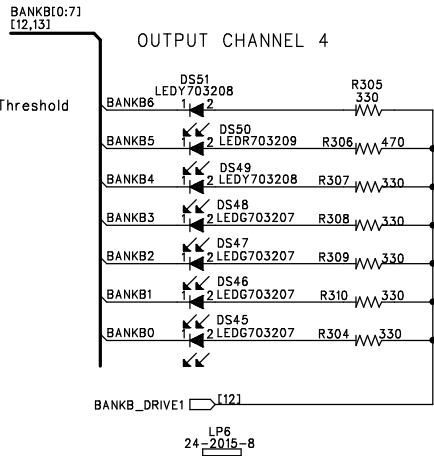
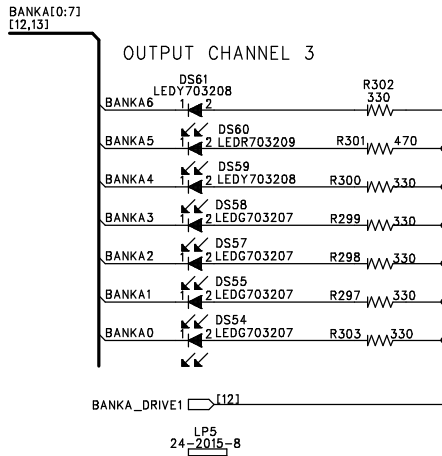
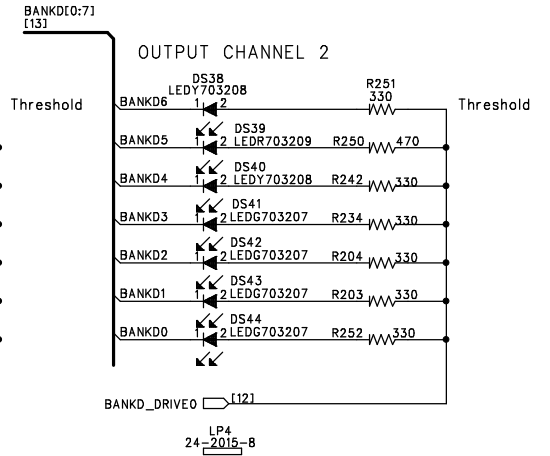
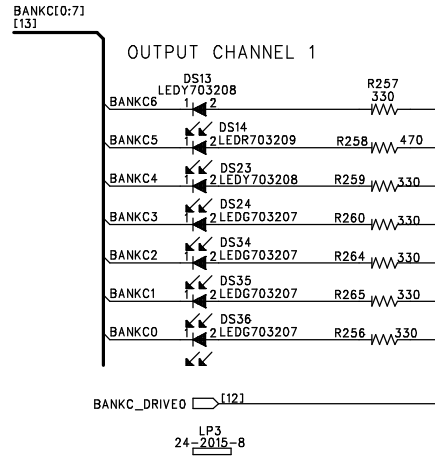
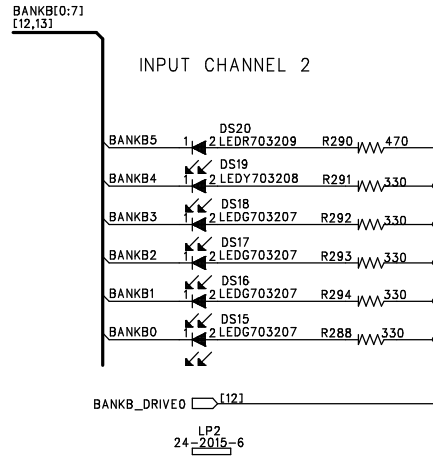
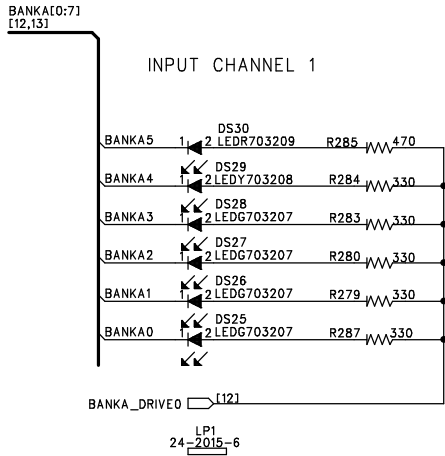
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DATE: 4-26-02	DRAWING NO: 05-1790	SHEET: 10 OF 15

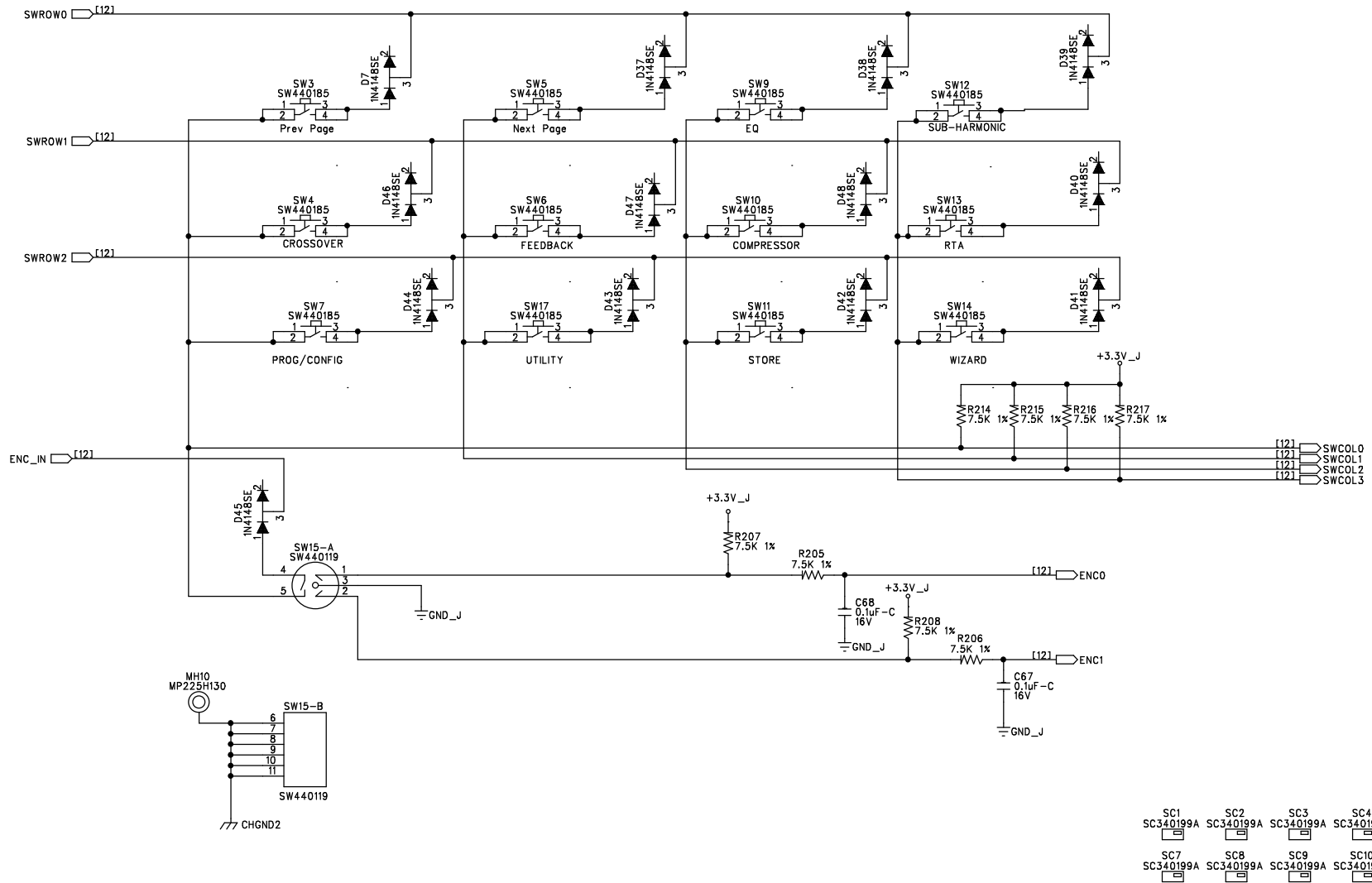


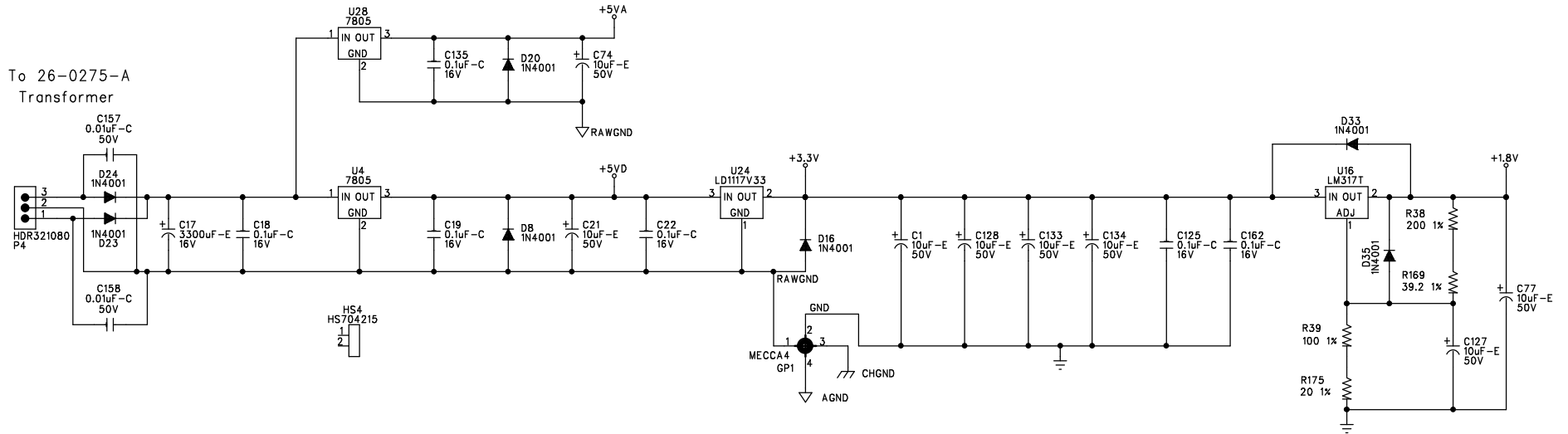
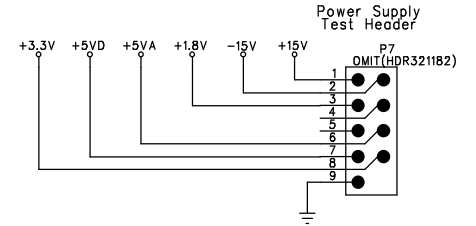
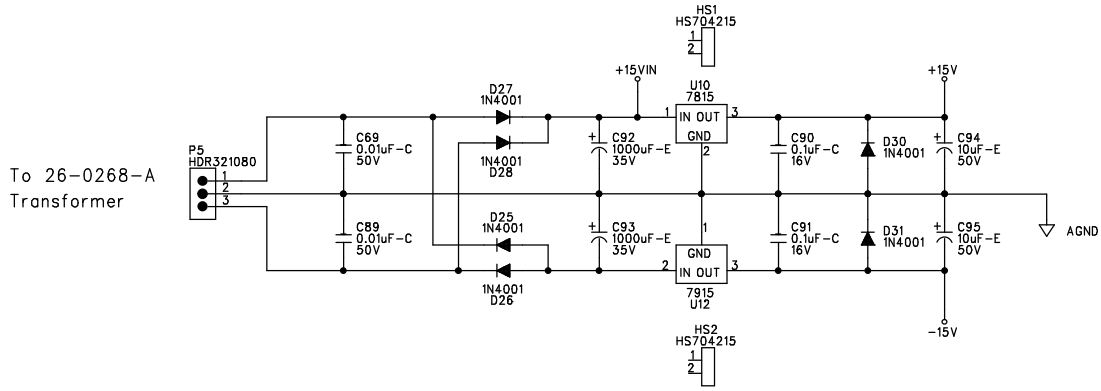
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START DATE: 4-26-02	DRAWING NO: 05-1790	SHEET: 11 OF 15



SIZE: A	SHEET TITLE: FRONT PANEL - LED/LCD CONTROL	REVISION: A3
DATE: 4-26-02	DRAWING NO: 05-1790	SHEET: 12 OF 15







SIZE: A	SHEET TITLE: POWER SUPPLY	REVISION: A3
DATE: 4-26-02	DRAWING NO: 05-1790	SHEET: 15 OF 15

Bill Of Materials for 051790a3.sch on Fri Apr 26 12:47:36 2002

Qty	Reference	HMG#	Description	Audit	Schematic Part	PCB Decal
1	PCB1	80-1790	PCB 80-1790 dbx DriveRack 1000 MAIN PCB	PTxxxx	80XXXXXX	BARCODE
10	A6-9 A14-15 A17-18 A20 A22	NON-PART	NON-PART, PCB ONLY, BREAKOFF PART	PT1481	BRKOFF	BRKOFF
12	C6-7 C28 C30 C35-36 C41-42 C47-48 C189-190	56-0000	CAP 0.001uF FILM PTR 100V 5% AF TA	PT1629	C0.001UF100JR	RFCC200
1	C83	56-0005	CAP 0.0068uF FILM PTR 100V 5% RF TA	PT1307	C0.0068UF100JR	RFDC200
4	C69 C89 C157-158	62-1311	CAP 0.01uF CER 50V 20% Y5V 0603 TA	PT2665	C0.01UC50M0603	0603
2	C52 C97	56-0033	CAP 0.027uF FILM PTR 100V 5% RF TA	PT1282	C0.027UF100JR	RFEF200
93	C3-5 C18-20 C22 C27 C34 C40 C46 C57-68 C71-72 C75-76 C78 C90-91 C105-108 C110 C113-114 C116-120 C122 C125 C129-130 C132 C135 C160-164 C168-169 C171-176 C181-188 C192 C196-210 C212-214 C216 C240 C242-244	62-1310	CAP 0.1uF CER 16V 20% Y5V 0603 TA	PT2696	C0.1UC16M0603	0603
1	C191	OMIT	OMIT CAP 0.1uF CER 16V 20% Y5V 0603 TA (62-1310)	PT2711	C0.1UC16M06030	0603
2	C87-88	56-0012	CAP 0.1uF FILM MTPT 50V 5% RF TA	PT1200	C0.1UF50JR	RFEC200
2	C215 C217	62-3209	CAP 0.22uF CER 50V 10% X7R 1206 TA	PT2271	C0.22UC50K1206	1206
4	C226-229	62-1308	CAP 1000pF CER 50V 20% Y5V 0603 TA	PT2651	C1000PC50M0603	0603
2	C92-93	60-1073	CAP 1000uF EL 35V 20% HT 13x25R 5LL BK	PT1971	C1000UE35MR1	REQ200P
4	C79-81 P1	60-0201	CAP 100uF EL 16V 20% GP 6x8R 5LS TA	PT1378	C100UE16MR	REG200P
18	C1 C21 C74 C77 C94-95 C127-128 C133-134 C170 C193-195 C211 C218-219 C241	60-1074	CAP 10uF EL 50V 20% HT 5x11R 5LS TA	PT1972	C10UE50MR1	REE200P
20	C2 C11-12 C23-26 C56 C73 C82 C84 C96 C98-100 C111-112 C136-138	62-1304	CAP 120pF CER 50V 5% NPO 0603 TA	PT2655	C120PC50J0603	0603
6	C155-156 C222-225	62-1300	CAP 15pF CER 50V 5% NPO 0603 TA	PT2659	C15PC50J0603	0603
2	C126 C131	62-0000	CAP 2.2uF CER 6.3V +80/-20% Y5V 0603 TA	PT2787	C2.2UC6.3Z0603	0603
1	C70	60-0010	CAP 22uF EL 35V 20% GP 5x11R 5LS TA	PT2110	C22UE35MR	REE200P
10	C14 C33 C39 C45 C51 C147 C149 C152 C154 C165	60-0402	CAP 22uF ELNP 25V 20% GP 6x11R 5LS TA	PT1084	C22UN25MR	REG200
1	C17	60-1072	CAP 3300UF ELEC 16V 20% 13x25 BULK 105c	PT1999	C3300UE16MR	REQ200P
8	C53 C109 C143 C145 C148 C150-151 C153	62-1306	CAP 330pF CER 50V 10% X7R 0603 TA	PT2653	C330PC50K0603	0603
8	C9-10 C15-16 C29 C85-86 C115	62-1307	CAP 470pF CER 50V 10% X7R 0603 TA	PT2652	C470PC50K0603	0603
3	C123-124 C140	62-1302	CAP 47pF CER 50V 5% NPO 0603 TA	PT2657	C47PC50J0603	0603
4	C54-55 C101-102	60-0054-01	CAP 47uF EL 16V 20% GP 5x11R 5LS TA	PT1108	C47UE16MR	REE200P
18	C8 C13 C31-32 C37-38 C43-44 C49-50 C103-104 C121 C139 C141-142 C144 C146	62-1303	CAP 68pF CER 50V 5% NPO 0603 TA	PT2656	C68PC50J0603	0603
13	D8 D16 D20 D23-28 D30-31 D33 D35	70-0000	DIO 1N4001 50V 1 AMP AMMO TA	PT1003	D1N4001-R	RDB200
25	D1-7 D9 D13-15 D21-22 D37-48	70-0113	DIO MMBD4148SE DUAL 75V 600mA SOT-23 TA	PT1326	D1N4148SE-S	SOT-23
5	A1-5	NON-PART	NON-PART, FIDUCIAL, TARGET FOR AUTO INSERTION	PT1271	FIDUCIAL	FIDUCIAL

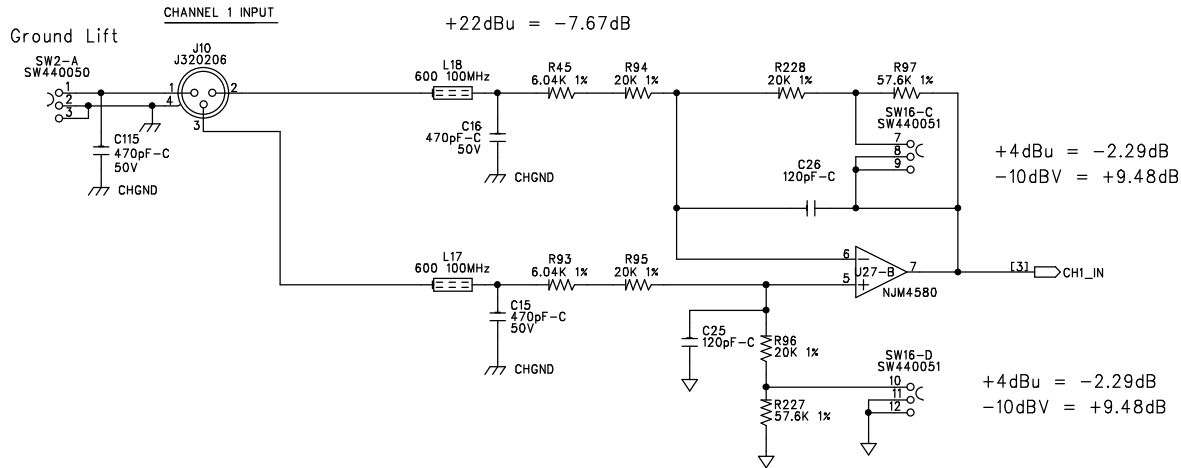
2	J7 J9	32-0172	HCN CONN 30 PIN .5 MM CNTS 1X30 FML RA	PT2724 HCN320172	HC320172
1	J12	32-0176	HCN CONN 20 PIN FEM VRT MNT SMT	PT2773 HCN320176	HC102V079050FS
1	P3	32-1055	HDR, 20 PIN, 0.1" SPC, 2 X 10, VERT, MALE	PT1340 HDR321055	HC102
2	P4-5	32-1080	HDR, 3 PIN, 0.1" SPC, 1 X 3, LCK, R/A, MALE	PT1073 HDR321080	HC3L
1	P1-A	OMIT	OMIT HDR 3 PIN 0.1" SPC 1 X 3 VERT MALE CUT FROM 14 PIN (32-1067)	PT2703 HDR321067-O	HC31
1	P2	OMIT	OMIT HDR 5 PIN 0.1" SPC 1 X 5 VERT MALE	PT2788 HDR321074-O	HC51M
1	P21	OMIT	OMIT HDR 14 PIN 0.1" SPC 2 X 7 VERT MALE (32-1083)	PT2127 HDR321083-O	HC72
1	H1	OMIT	OMIT, HDR, 5 PN, 0.079" SP, 1 X 5, 0.020" PS LK SD PO VT MA (32-1101)	PT1825 HDR321101-O	HC579LSFPM
1	P7	OMIT	OMIT, HDR, 9 PIN, 0.1" SPC, PIN 10 MISSING, VERT, MALE, (32-1182)	PT1121 HDR321182-O	HDR321182
3	HS1-2 HS4	70-4215	HEATSINK, TO-220, VERT	PT1339 HS704215	HS704215
3	J3 J8 J10	32-0206	CON, JACK, XLR, R/A, PCA A SERIES	PT1219 J320206	XLRF-1
1	DS1	70-2114	LED, GRN, T1, RLC100, AMMO	PT1059 LEDG702114	RLC100
38	DS2 DS5 DS7-8	70-3207	LED GREEN D1206 T&R	PT1902 LEDG703207	D1206
	DS10-11 DS15-18				
	DS24-28 DS34-36				
	DS41-48 DS54-55				
	DS57-58 DS63-64				
	DS66-67 DS72-75				
10	DS9 DS14 DS20	70-3209	LED RED D1206 T&R	PT1901 LEDR703209	D1206
	DS30-31 DS39 DS50				
	DS60 DS69 DS78				
19	DS3-4 DS6 DS12-13	70-3208	LED YELLOW D1206 T&R	PT1900 LEDY703208	D1206
	DS19 DS23 DS29 DS33				
	DS38 DS40 DS49 DS51				
	DS59 DS61 DS68 DS70				
	DS76 DS79				
9	L1 L3-4 L6 L11-12	26-0000	IND FBD 600 OHM @ 100Hz 200mA 0603 TA	PT2728 LFB260000	0603
	L16-18				
18	L2 L9-10 L13-15	26-0001	IND FBD 2.5K OHM @ 100Hz, 50mA 0603 TA	PT2729 LFB260001	0603
	L19-30				
3	L5 L7 R150	26-0217	IND FBD 2.5K OHM @ 70MHz 0805 TA	PT1261 LFB260217	0805
2	LP1-2	NON-PART	NON-PART 6 POS NOT INSTALLED UNTIL MECHANICAL ASSY(LIGHT PIPE)	PT1967 LP242015-6	LP242015-6
6	LP3-8	NON-PART	NON-PART 8 POS NOT INSTALLED UNTIL MECHANICAL ASSY(LIGHT PIPE)	PT1968 LP242015-8	LP242015-8
1	GP1	NON-PART	NON-PART MECCA GND/PWR TIE POINT 4 POS	PT2482 MECCA4	MECCA4
6	MH3-6 MH8 MH12	NON-PART	NON-PART, MOUNTING HOLE, 0.130" NON-PLATED, #4	PT1242 MH130	MH130
2	MH1-2	NON-PART	NON-PART, TOOLING PIN HOLE, 156MIL HOLE	PT1416 MH156-TOOL	MH156-TOOL
1	MH10	NON-PART	NON-PART MECHANICAL PLATED HOLE 225 PAD 130 HOLE #4	PT1998 MP225H130	MP225H130
5	MP1-5	NON-PART	NON-PART, MECHANICAL PLATED HOLE, 300 PAD, 156 HOLE, #6	PT1045 MP300H156	MP300H156
6	J1-2 J4-6 J11	32-0204	CON, PLUG, XLR, R/A, PCA A SERIES	PT1218 P320204	XLRM-1
1	Q1	70-1035	XSTR, 2N44402, PNP, SIGNAL, TO-92, AMMO	PT1527 Q2N4402	TO92(EBC)-V
10	Q2-3 Q8-15	70-1058	XSTR, 2N3904, NPN, SOT-23, T&R	PT1203 Q2N3904-S	SOT-23
12	R11 R13 R35 R37	50-1300	RES 0 5% 1/16W SM 0603 TA	PT2508 R0-B5-0603	0603
	R222 R277 R344-346				
	R356 R359-360				
7	R8 R10 R12 R58-59	OMIT	OMIT RES 0 5% 1/16W SM 0603 TA (50-1300)	PT2509 R0-B5-0603O	0603
	R289 R295				
7	R157-158 R167-168	50-0317	RES 0 5% 1/4W CF RR TA	PT1008 R0-E5-R	RRA200
	R170-172				
1	R160	OMIT	OMIT RES 0 5% 1/4W CF RR TA (50-0317)	PT1596 R0-E5-RO	RRA200
2	R163-164	52-1340	RES 10.7K 1% 1/16W SM 0603 TA	PT2592 R10.7KB1-0603	0603
8	R7 R39 R54 R183-184	52-1304	RES 100 1% 1/16W SM 0603 TA	PT2512 R100-B1-0603	0603
	R312 R338-339				
4	R103-104 R253-254	52-1360	RES 100K 1% 1/16W SM 0603 TA	PT2613 R100KB1-0603	0603
38	R1-4 R6 R14 R20 R23	52-1338	RES 10K 1% 1/16W SM 0603 TA	PT2584 R10KB1-0603	0603
	R49 R56 R112 R118				
	R124 R130 R136 R143				
	R159 R185-188				
	R192-193 R197 R199				
	R201 R209 R212-213				
	R218-219 R223 R236				
	R244 R334 R340				
	R383-384				

12	R34 R57 R64-65 R72-73 R80-81 R88-89 R281-282	52-1342	RES 13.3K 1% 1/16W SM 0603 TA	PT2594 R13.3KB1-0603	0603
1	R267	52-1362	RES 150K 1% 1/16W SM 0603 TA	PT2615 R150KB1-0603	0603
1	R153	52-1344	RES 15K 1% 1/16W SM 0603 TA	PT2596 R15KB1-0603	0603
4	R92 R149 R233 R235	52-1305	RES 169 1% 1/16W SM 0603 TA	PT2513 R169-B1-0603	0603
15	R28-29 R36 R156 R173-174 R210-211 R266 R269-274	52-1313	RES 1K 1% 1/16W SM 0603 TA	PT2550 R1KB1-0603	0603
1	R336	52-1372	RES 1M 1% 1/16W SM 0603 TA	PT2625 R1MB1-0603	0603
4	R74 R90 R226 R232	52-1317	RES 2.21K 1% 1/16W SM 0603 TA	PT2555 R2.21KB1-0603	0603
10	R24 R66 R83 R109 R121 R133 R146 R190 R231 R247	52-1319	RES 2.67K 1% 1/16W SM 0603 TA	PT2557 R2.67KB1-0603	0603
2	R175 R337	52-1300	RES 20 1% 1/16W SM 0603 TA	PT2507 R20-B1-0603	0603
15	R38 R176-182 R189 R191 R194-196 R332-333	52-1306	RES 200 1% 1/16W SM 0603 TA	PT2514 R200-B1-0603	0603
1	R43	50-1308	RES 200 5% 1/16W SM 0603 TA	PT2526 R200-B5-0603	0603
8	R46-48 R94-96 R224 R228	52-1346	RES 20K 1% 1/16W SM 0603 TA	PT2598 R20KB1-0603	0603
1	R255	52-1364	RES 221K 1% 1/16W SM 0603 TA	PT2617 R221KB1-0603	0603
12	R75 R82 R98-100 R154-155 R221 R229-230 R241 R262	52-1316	RES 2K 1% 1/16W SM 0603 TA	PT2553 R2KB1-0603	0603
12	R5 R26 R50 R110 R113 R122 R125 R134 R137 R147 R237 R248	52-1322	RES 3.16K 1% 1/16W SM 0603 TA	PT2560 R3.16KB1-0603	0603
6	R41 R111 R123 R135 R148 R249	52-1323	RES 3.24K 1% 1/16W SM 0603 TA	PT2561 R3.24KB1-0603	0603
26	R25 R31-33 R60-63 R68-71 R76-79 R84-87 R105 R165 R321-322 R357-358	52-1324	RES 3.32K 1% 1/16W SM 0603 TA	PT2562 R3.32KB1-0603	0603
48	R9 R67 R203-204 R234 R242 R251-252 R256-257 R259-260 R264-265 R279-280 R283-284 R287-288 R291-294 R297-300 R302-305 R307-310 R313-316 R318-320 R323 R325-328	50-1309	RES 330 5% 1/16W SM 0603 TA	PT2528 R330-B5-0603	0603
2	R161-162	52-1307	RES 332 1% 1/16W SM 0603 TA	PT2543 R332-B1-0603	0603
6	R101-102 R152 R261 R263 R275	50-1325	RES 33K 5% 1/16W SM 0603 TA	PT2589 R33KB5-0603	0603
1	R169	52-1301	RES 39.2 1% 1/16W SM 0603 TA	PT2515 R39.2-B1-0603	0603
1	R382	50-1326	RES 39K 5% 1/16W SM 0603 TA	PT2629 R39KB5-0603	0603
13	R21-22 R107-108 R119-120 R131-132 R144-145 R245-246 R364	52-1327	RES 4.53K 1% 1/16W SM 0603 TA	PT2565 R4.53KB1-0603	0603
1	R16	50-1317	RES 4.7K 5% 1/16W SM 0603 TA	PT2541 R4.7KB5-0603	0603
11	R151 R250 R258 R285 R290 R301 R306 R317 R324 R329 R365	50-1310	RES 470 5% 1/16W SM 0603 TA	PT2529 R470-B5-0603	0603
1	R30	50-1335	RES 470K 5% 1/16W SM 0603 TA	PT2643 R470KB5-0603	0603
2	R330-331	52-1356	RES 49.9K 1% 1/16W SM 0603 TA	PT2609 R49.9KB1-0603	0603
6	R198 R202 R278 R286 R296 R311	52-1308	RES 499 1% 1/16W SM 0603 TA	PT2545 R499-B1-0603	0603
6	R19 R55 R117 R129 R142 R243	52-1331	RES 5.76K 1% 1/16W SM 0603 TA	PT2576 R5.76KB1-0603	0603
4	R97 R141 R225 R227	52-1357	RES 57.6K 1% 1/16W SM 0603 TA	PT2610 R57.6KB1-0603	0603

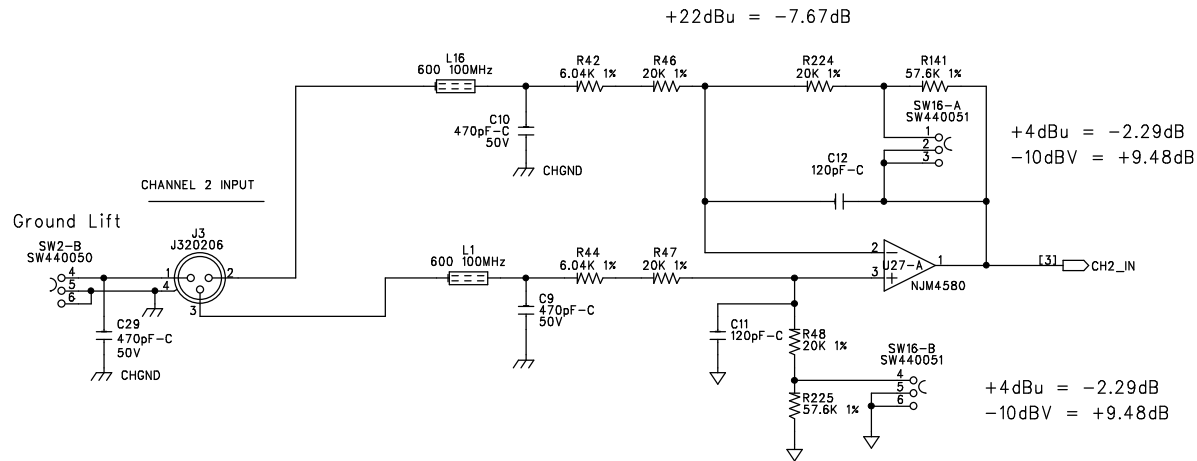
22	R15 R42 R44-45 R51 R91 R93 R114 R126 R138 R200 R238 R335 R341-343 R347 R349 R351 R353-355	52-1332	RES 6.04K 1% 1/16W SM 0603 TA	PT2577	R6.04KB1-0603	0603
12	R17-18 R52-53 R115-116 R127-128 R139-140 R239-240	52-1303	RES 60.4 1% 1/16W SM 0603 TA	PT2511	R60.4-B1-0603	0603
1	R268	50-1328	RES 62K 5% 1/16W SM 0603 TA	PT2632	R62KB5-0603	0603
1	R220	50-1311	RES 680 5% 1/16W SM 0603 TA	PT2531	R680-B5-0603	0603
9	R205-208 R214-217 R276	52-1335	RES 7.5K 1% 1/16W SM 0603 TA	PT2581	R7.5KB1-0603	0603
2	R106 R166	52-1336	RES 8.06K 1% 1/16W SM 0603 TA	PT2582	R8.06KB1-0603	0603
1	P6	38-0001	RBN CBL 20 COND. 0.1", 4.25"	PT2772	RC20-380001	RC380001
2	SC14-15	34-0125	SWITCH CAP, BLACK, ROUND	PT1354	SC340125	SC340125-FPE
1	SC13	34-0198-C	SWITCH CAP LIGHT PIPE SNGL LED HORZ	PT2504	SC340198C	SC340198C
12	SC1-12	34-0199-A	SWITCH CAP dbx LIGHTED	PT2024	SC340199A	PCBNULL
1	S6	70-3026	SOCKET, PLCC 32, PLCC/R-32SKT	PT1419	SKT32-703026	PLCC/R-32SKT
1	SW2	44-0050	SWITCH DPDT MINI IN-OUT 6 PIN E-SWITCH	PT1256	SW440050	SW440050
2	SW1 SW16	44-0051	SWITCH, 4PDT, MINI IN-OUT, 12 PIN, E-SWITCH	PT1257	SW440051	SW440051
1	SW15	44-0119	ENCODER 20mm D SHAFT 30 POS W/SWITCH VERT MOUNT	PT1890	SW440119	SW440119
12	SW3-7 SW9-14 SW17	44-0185	SWITCH, SPST, LITE TOUCH, MINI, W/ PROJECTED PLUNGER SMT	PT1962	SW440185	SW4PTACT-3
7	TP1-2 TP4 TP8-10 TP12	NON-PART	NON-PART, TEST POINT, ENGINEERING PROBE POINT	PT1653	TESTPOINT	TESTPOINTSMT
2	U4 U28	70-4014	V-REG, 7805, +5V, 1.5 AMP, TO-220	PT1591	U7805	TO220(IGO)-V
1	U10	70-4123	V-REG, 7815, +15V, 1 AMP, TO-220	PT1592	U7815	TO220(IGO)-V
1	U12	70-4124	V-REG, 7915, -15V, 1 AMP, TO-220	PT1594	U7915	TO220(GIO)-V
1	U7	72-0046	IC 25AA640 64K SERIAL EEPROM TA	PT2774	U25AA260	SO8
1	U5	72-6318	IC 32K x 8 SRAM 15ns SOJ28	PT2294	U32K8S15-J	SOJ28-300
6	U2 U33 U36 U38 U42 U51	72-1439	IC, 5532MD, DUAL BIPOLAR OPAMP, SO8-200	PT1306	U5532MD-S	SO8-200
2	U25 U48	72-5426	IC, 74AC04, HEX INVERTER, SO14, T&R	PT1325	U74AC04-S	SO14
1	U21	72-5437	IC 74VHC273 FLIP-FLOP OCTAL-D SO20W T&R	PT1909	U74VHC273-S	SO20W
1	U17	72-0045	IC 74VHC373 OCTAL LATCH SO20W	PT2771	U74VHC373-S	SO20W
1	U44	72-0044	IC 74VHC4040 12 BIT RIPPLE COUNTER SO16	PT2759	U74VHC4040-S	SO16
1	U20	72-6316	IC 78L32P-24 8 BIT MICROCONTROLLER 3.3V	PT2316	U78L32P-24	PLCC-44
1	U11	72-1485	IC AK4356 192kHz 24 BIT 6 CHANNEL DAC	PT2717	UAK4356-Q	QFP44-10X10
1	U26	72-1266	IC, AK5383, 96 kHz, DUAL 24BIT ADC, SO28W	PT1557	UAK5383-S	SO28W
1	U1	72-6305	IC DSP56367 DSP 150MHZ QFP144-20X20	PT2452	UDSP56367-Q	QFP144-20X20
1	U24	70-4021	V-REG, LD1117V33, +3.3V, 0.8 AMP, TO-220, BULK	PT1795	ULD1117V33	TO220(GOI)-V
1	U16	70-4007	V-REG, LM317T, ADJ REG, 1.5 AMP, TO-220	PT1785	ULM317T	TO220(AOI)-V
1	U3	72-6308	IC NCP304 VOLTAGE DETECTOR SC-82AB	PT2393	UNCP304	SC-82AB
14	U8-9 U15 U19 U22-23 U27 U60-65 U70	72-1480	IC NUM4580 DUAL OP-AMP SO8	PT1374	UNJM4580-S	SO8
1	U13	72-0042-00V1	IC CPLD ispLSI2064VE dbx Driverack PA V1	PT2785	UP720042	QFP100-14X14
1	U6	72-5539-03V1	IC AM29LV040B 512K x 8 FLASH MEMORY dbx Driverack PA V1	PT2292	UP725539	PLCC/R-32
1	Y3	76-0202	XTAL 24.000MHz METAL CAN SURFACE MOUNT T&R	PT1928	Y24.000M760202	XTAL2-V
1	X7	76-0006	XTAL 24.576MHz SMT CX16F/CS49G PKG	PT2713	Y24.576M760006	YCX16F/CX49G

SC15
SC340125

SC14
SC340125

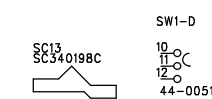
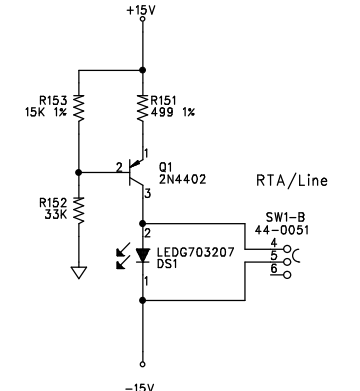
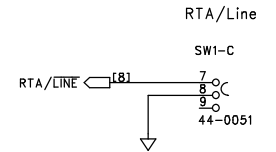
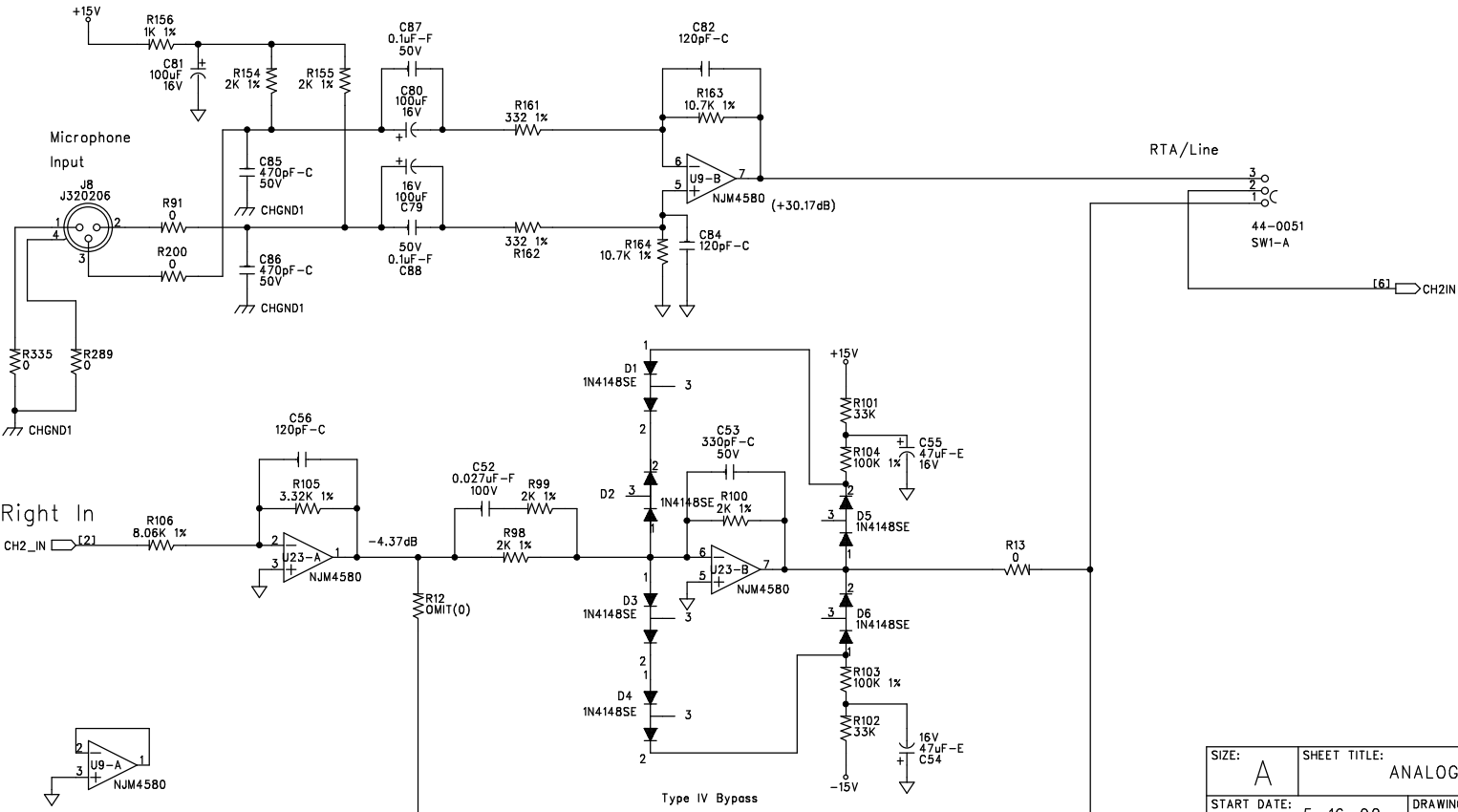
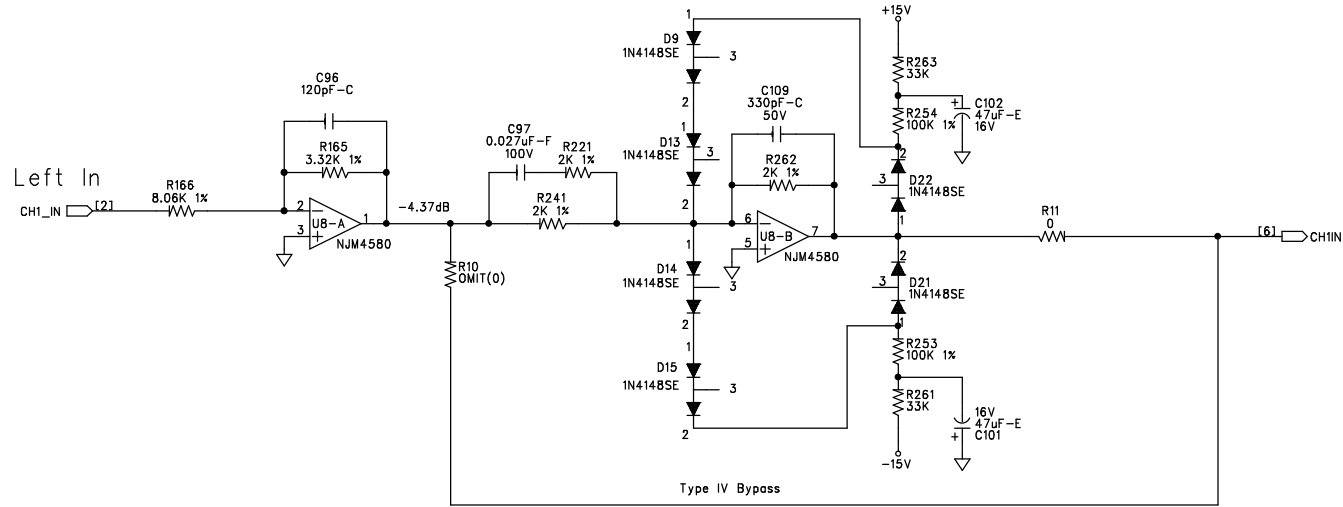


Left In

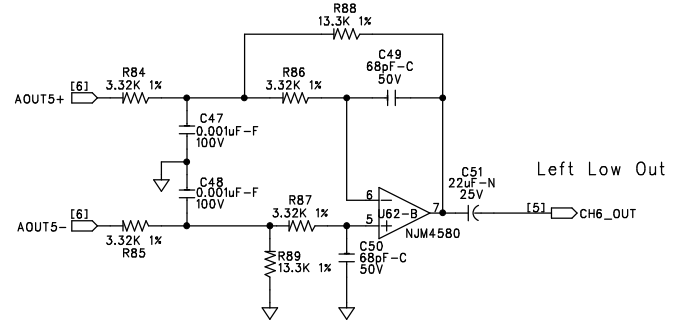
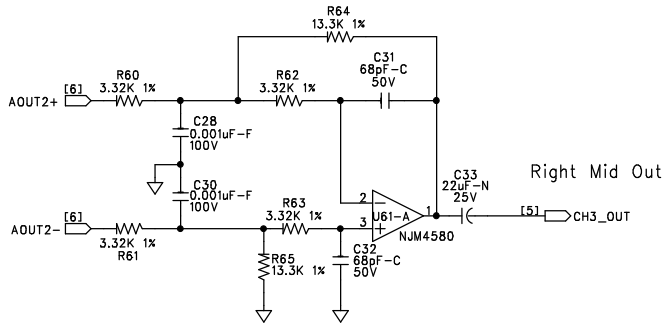
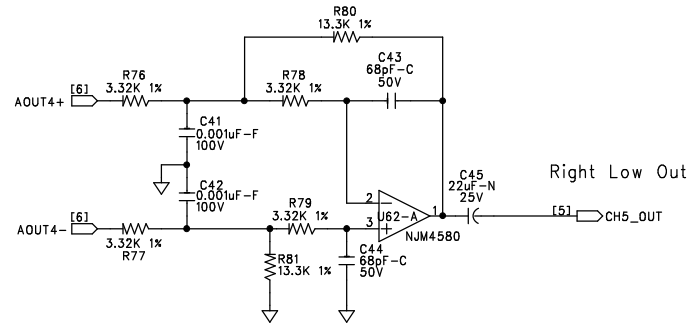
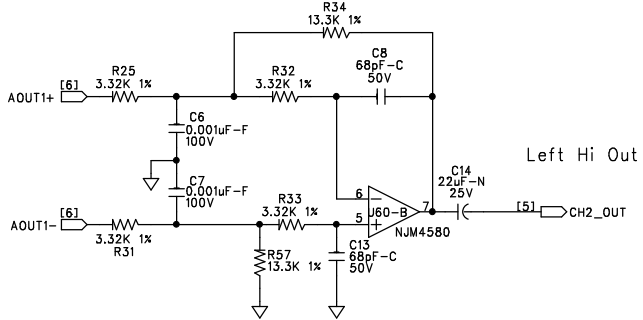
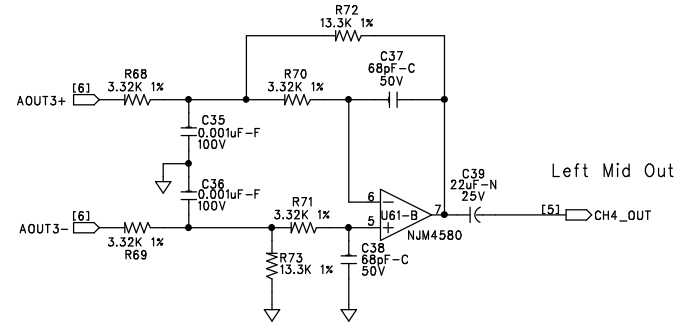
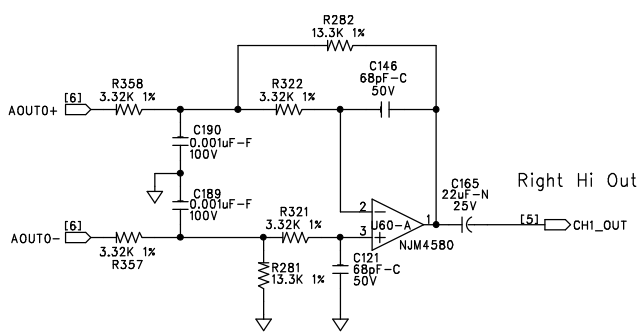


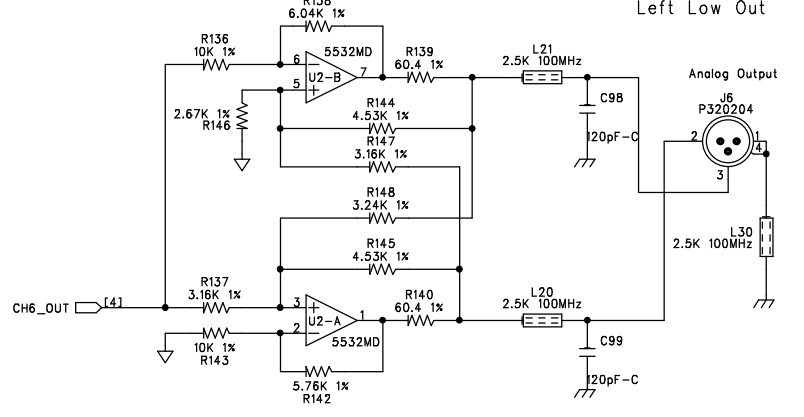
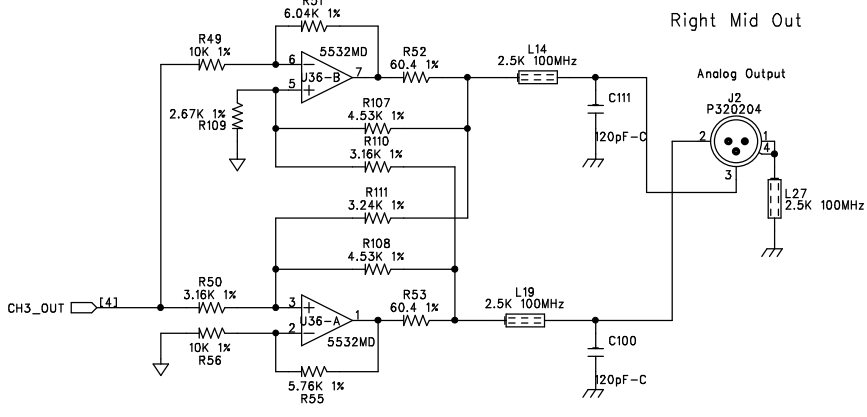
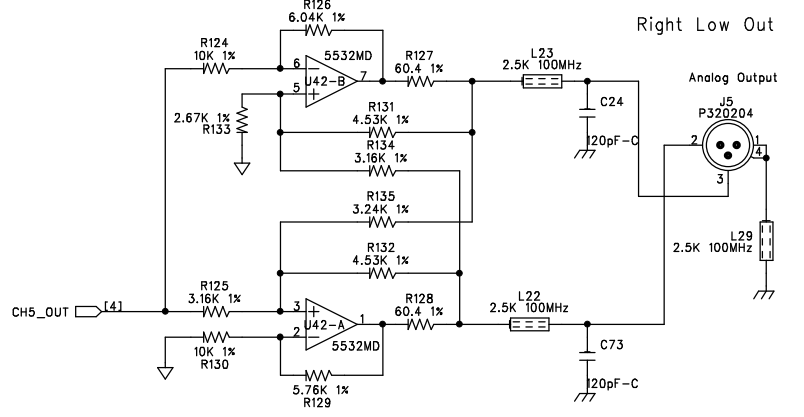
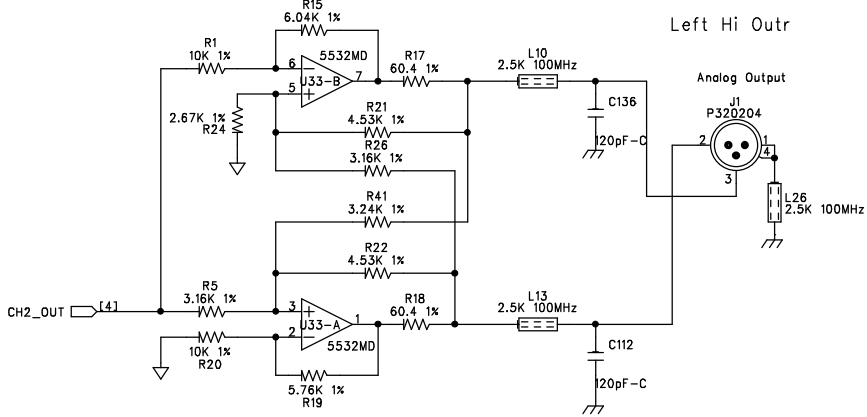
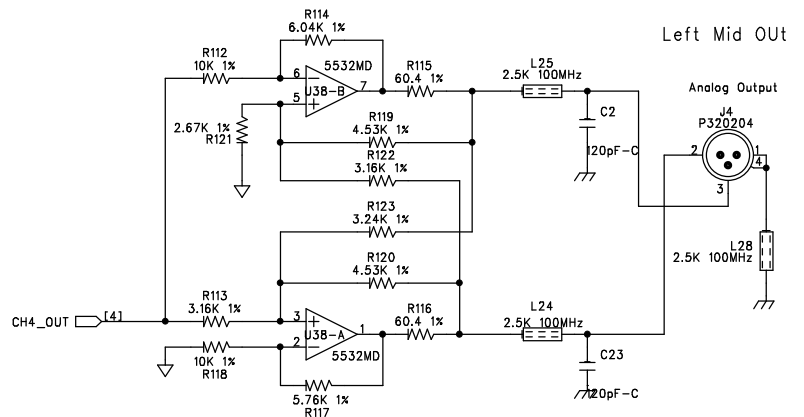
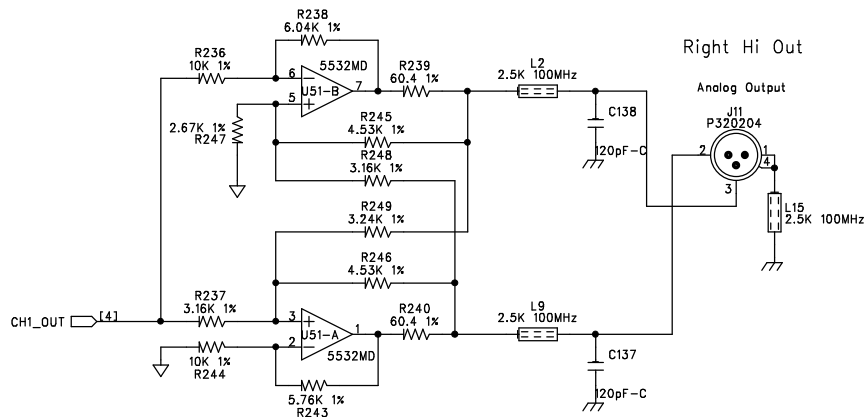
Right In

SIZE: A	SHEET TITLE: CHANNEL 1 & 2 INPUTS	REVISION: C0
START DATE: 5-16-02	DRAWING NO: 05-1790	SHEET: 2 OF 15

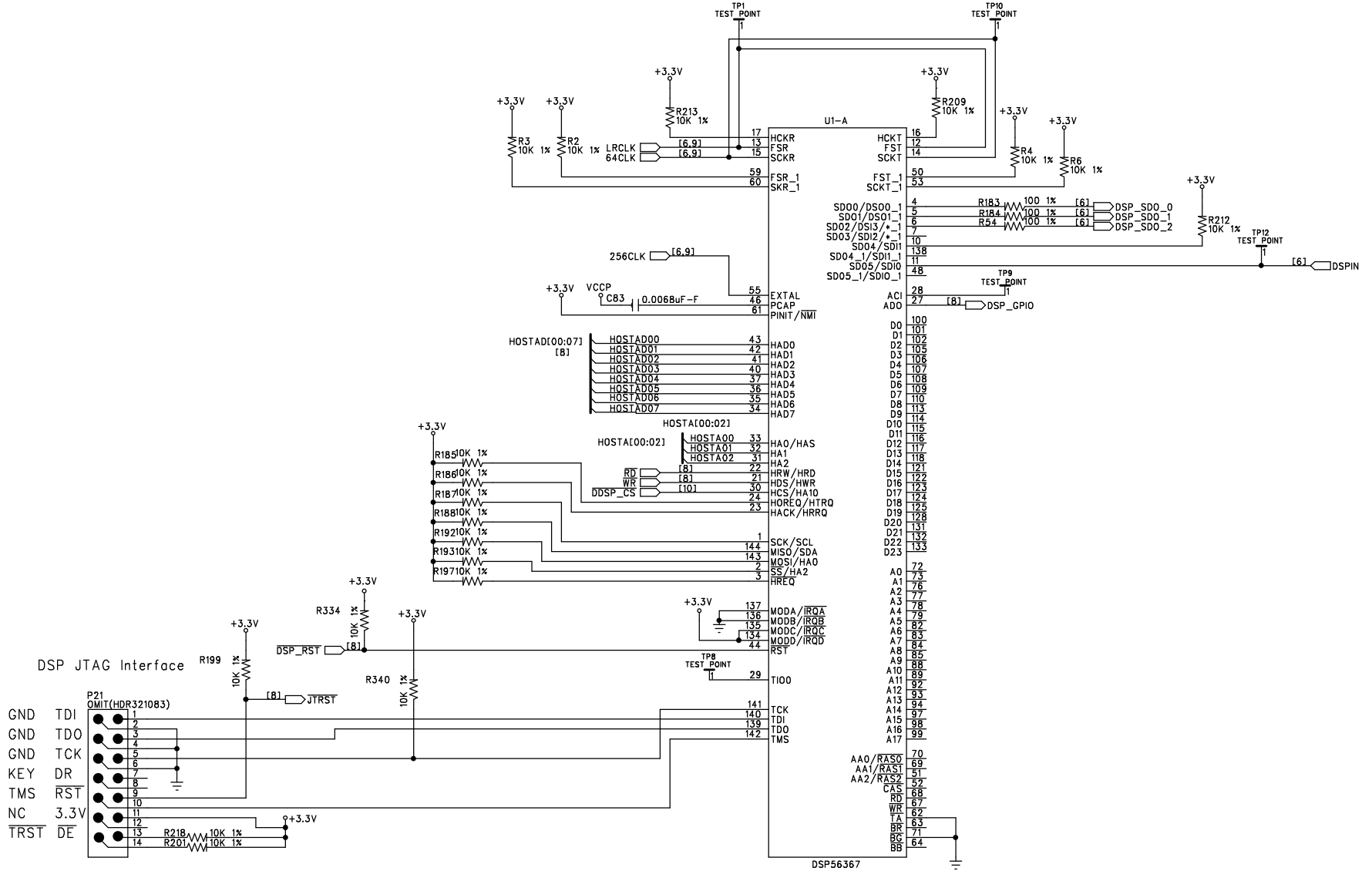


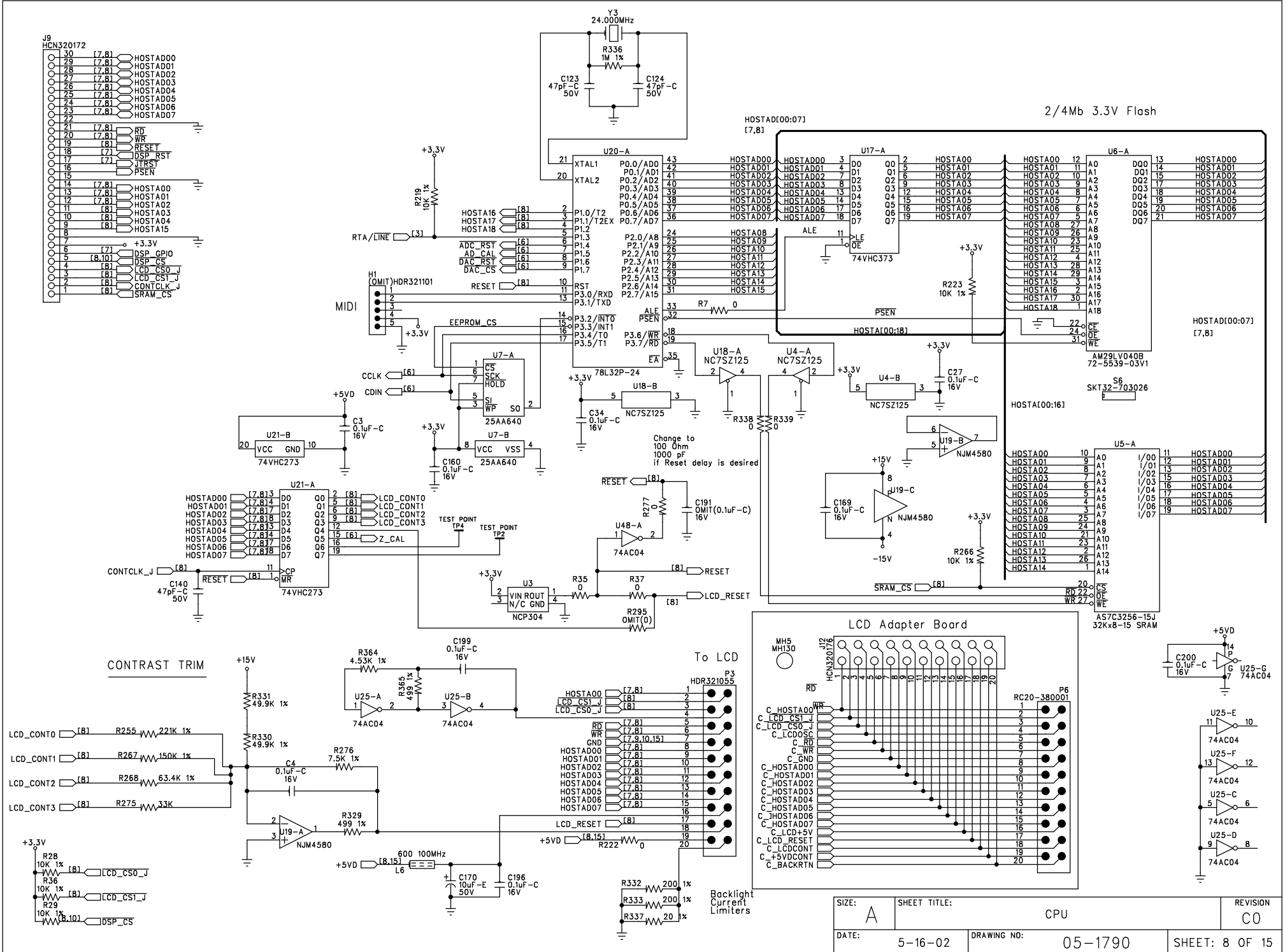
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START DATE: 5-16-02	DRAWING NO: 05-1790	SHEET: 3 OF 15





SIZE: A	SHEET TITLE: OUTPUT JACKS	REVISION: C0
DATE: 5-16-02	DRAWING NO: 05-1790	SHEET: 5 OF 15

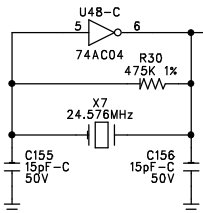




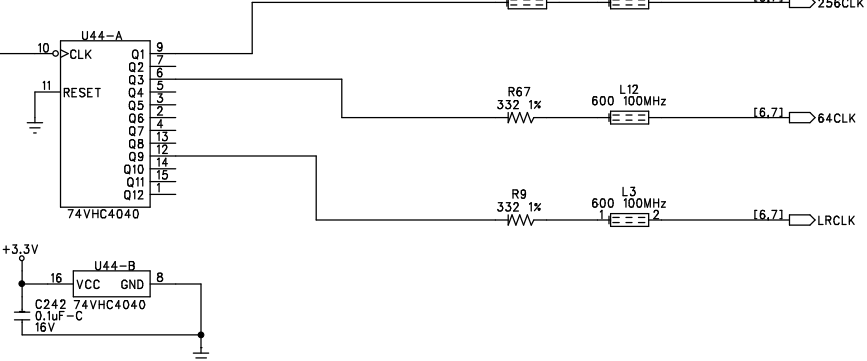
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DATE: 5-16-02	DRAWING NO: 05-1790	SHEET: 8 OF 15

Divider/Clock Tree

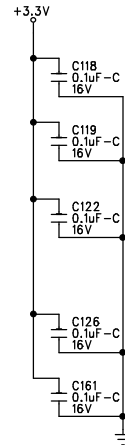
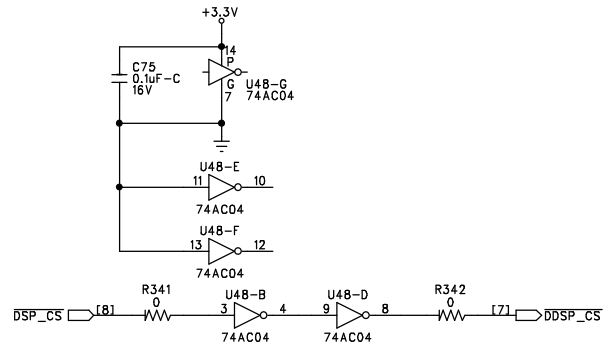
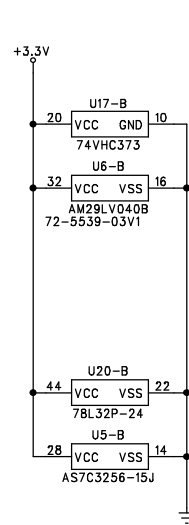
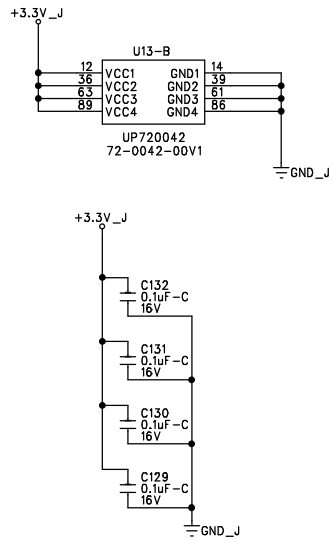
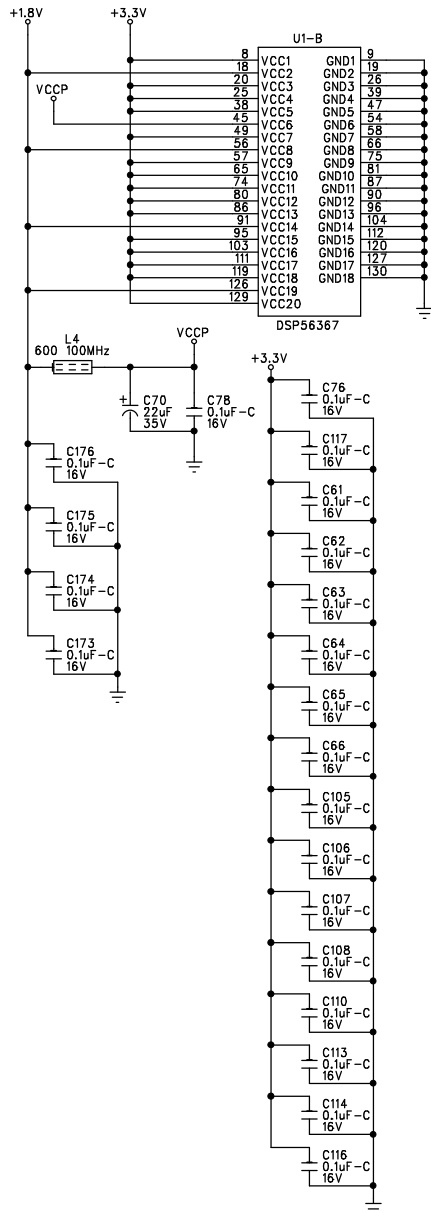
x512fs Crystal Oscillator
24.576 MHz



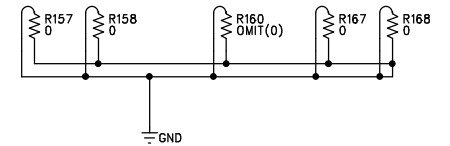
Change to 74VHC4040



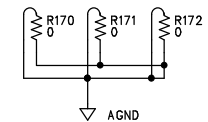
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DATE: 5-16-02	DRAWING NO: 05-1790	SHEET: 9 OF 15



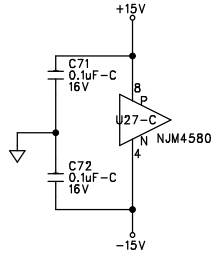
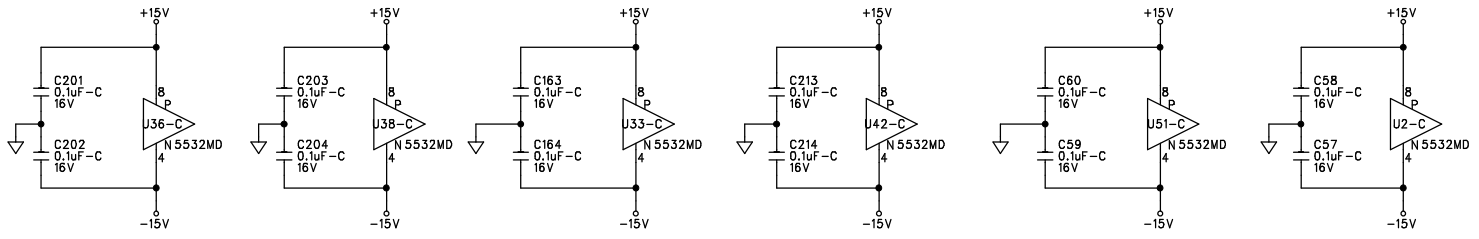
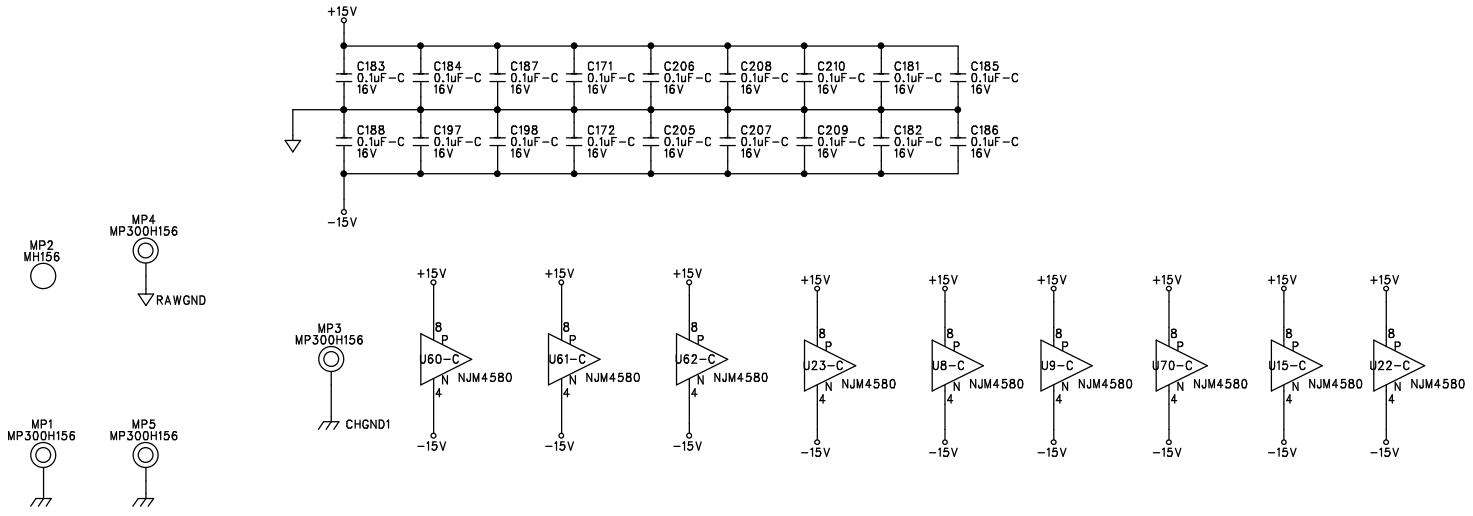
Digital Ground Test Points



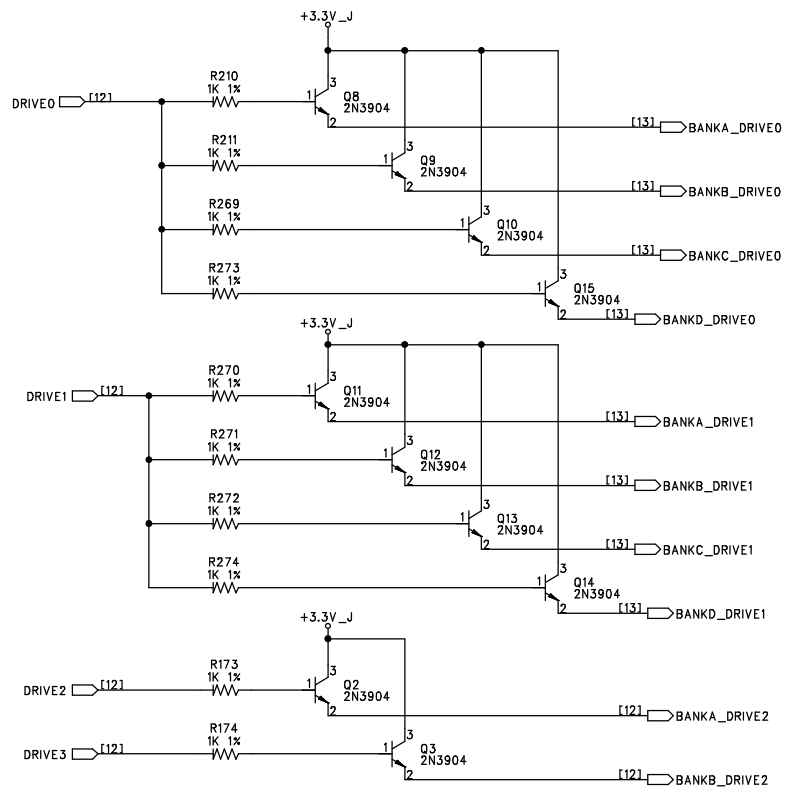
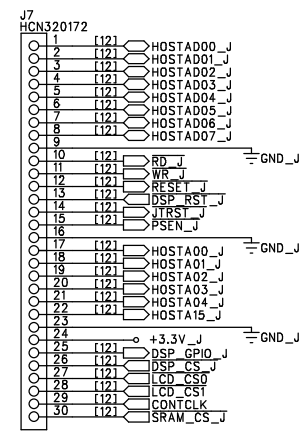
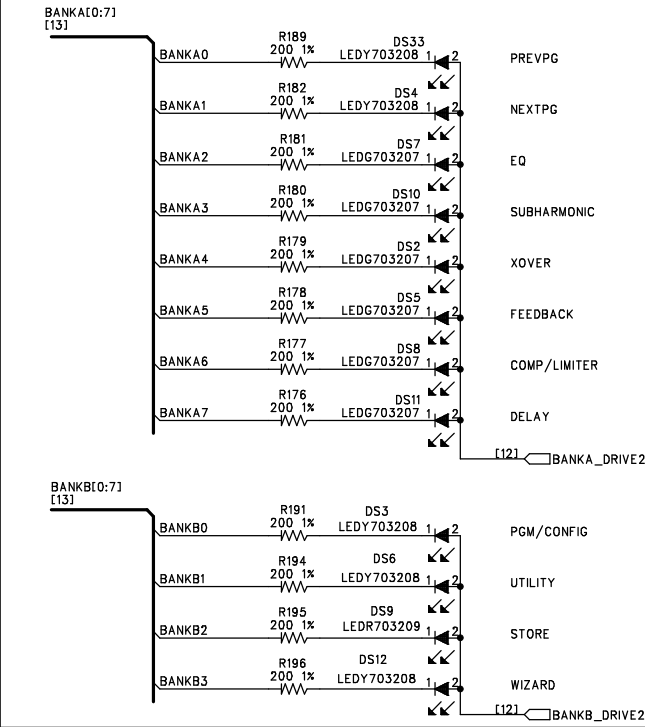
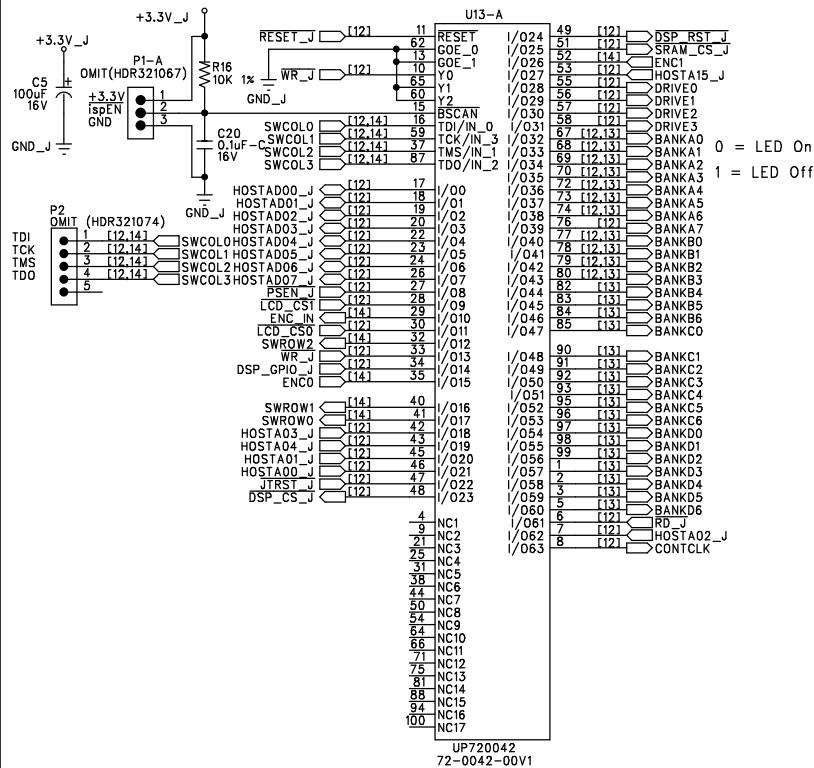
Analog Ground Test Points



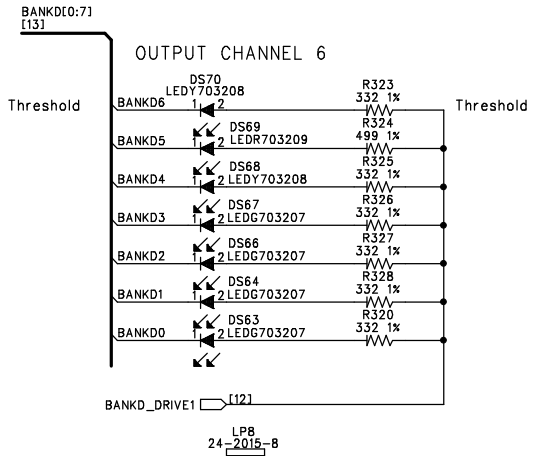
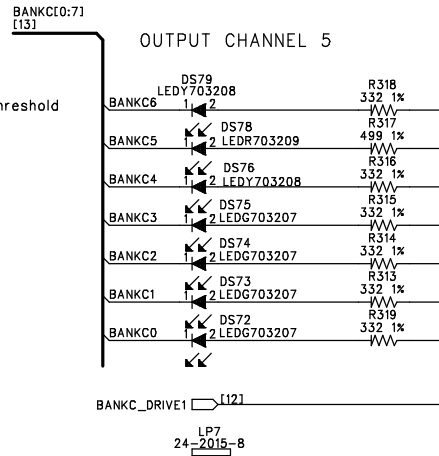
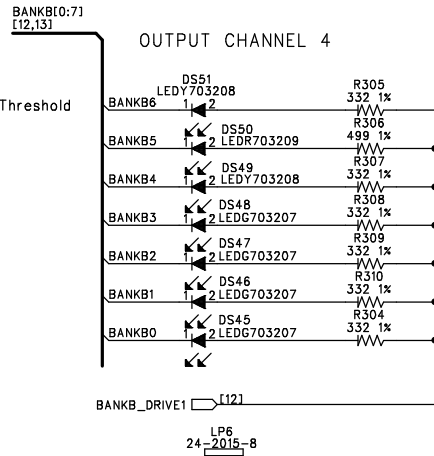
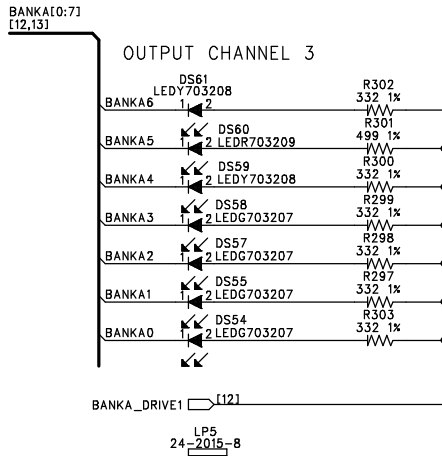
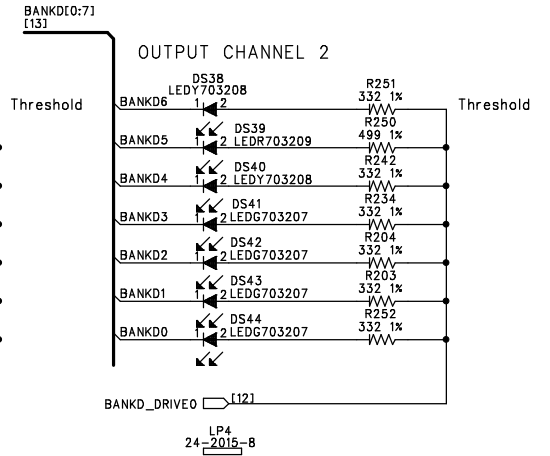
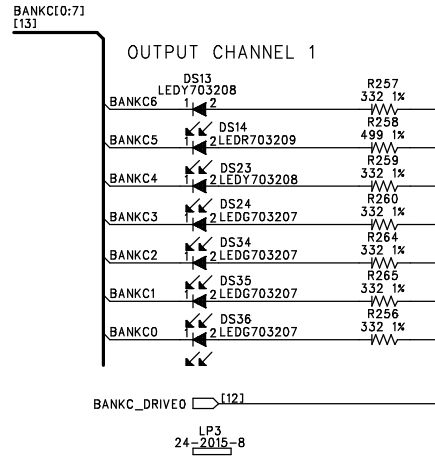
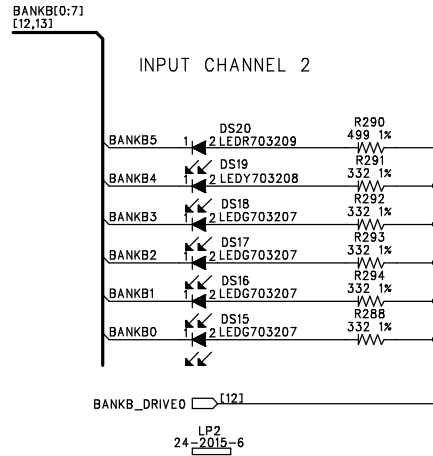
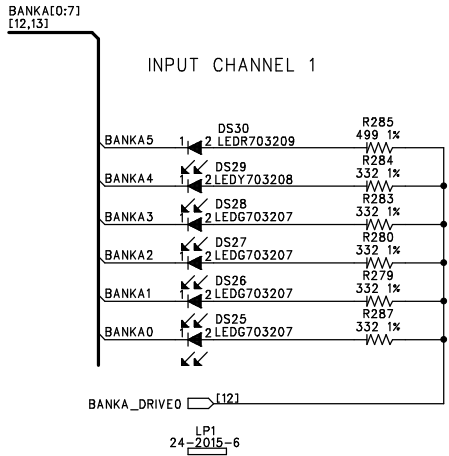
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DATE: 5-16-02	DRAWING NO: 05-1790	SHEET: 10 OF 15

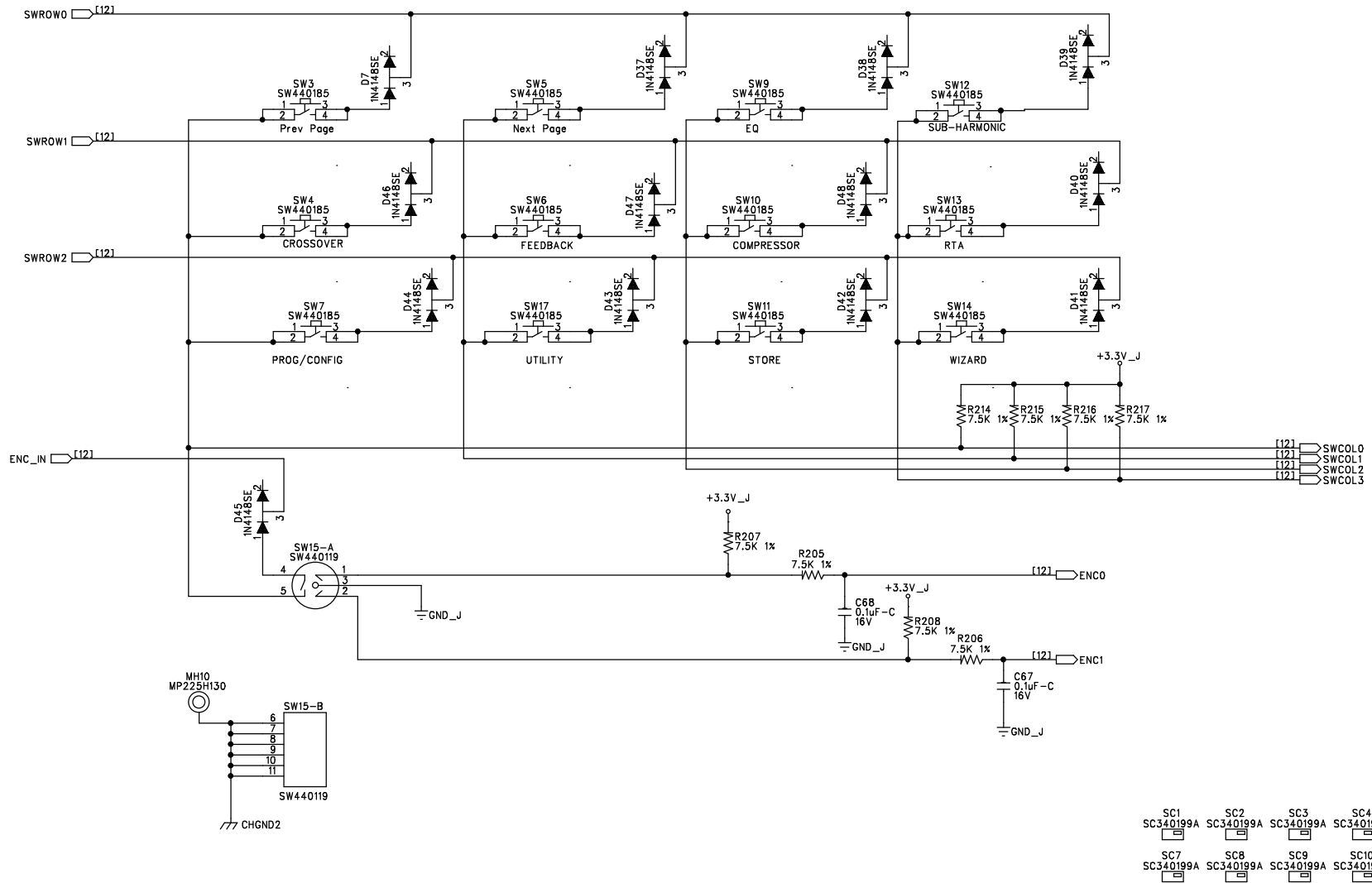


SIZE: A	SHEET TITLE: ANALOG POWER GATES	REVISION: C0
START DATE: 5-16-02	DRAWING NO: 05-1790	SHEET: 11 OF 15



SIZE: A	SHEET TITLE: FRONT PANEL - LED/LCD CONTROL	REVISION: C0
DATE: 5-16-02	DRAWING NO: 05-1790	SHEET: 12 OF 15





Bill Of Materials for 051790c0.sch on Thu May 16 14:27:20 2002

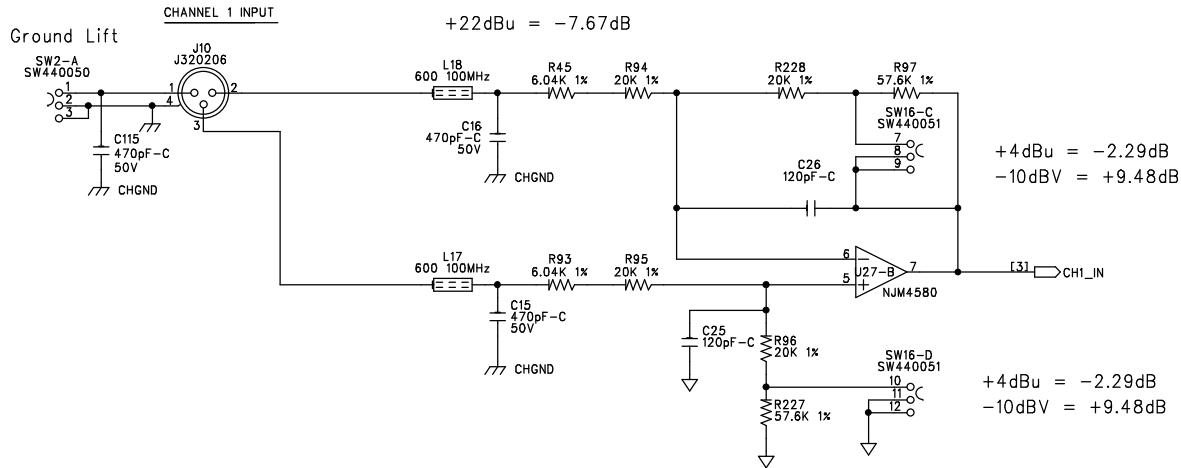
Qty	Reference	HMG#	Description	Audit	Schematic Part	PCB Decal
1	PCB1	80-1790	PCB 80-1790 dbx DRIVERACK PA	PT2044	80XXXXYY	BARCODE
8	A7-9 A15 A17-18 A20 A22	NON-PART	NON-PART, PCB ONLY, BREAKOFF PART	PT1481	BRKOFF	BRKOFF
12	C6-7 C28 C30 C35-36 C41-42 C47-48 C189-190	56-0000	CAP 0.001uF FILM PTR 100V 5% AF TA	PT1629	C0.001UF100JR	RFCC200
1	C83	56-0005	CAP 0.0068uF FILM PTR 100V 5% RF TA	PT1307	C0.0068UF100JR	RFDC200
4	C69 C89 C157-158	62-1311	CAP 0.01uF CER 50V 20% Y5V 0603 TA	PT2665	C0.01UC50M0603	0603
2	C52 C97	56-0033	CAP 0.027uF FILM PTR 100V 5% RF TA	PT1282	C0.027UF100JR	RFEF200
90	C3-4 C19-20 C22 C27 C34 C57-68 C71-72 C75-76 C78 C90-91 C105-108 C110 C113-114 C116-119 C122 C125-126 C129-132 C135 C160-164 C168-169 C171-176 C181-188 C192 C196-210 C212-214 C216 C240 C242-244	62-1310	CAP 0.1uF CER 16V 20% Y5V 0603 TA	PT2696	C0.1UC16M0603	0603
3	C17-18 C191	OMIT	OMIT CAP 0.1uF CER 16V 20% Y5V 0603 TA (62-1310)	PT2711	C0.1UC16M06030	0603
2	C87-88	56-0012	CAP 0.1uF FILM MTPPT 50V 5% RF TA	PT1200	C0.1UF50JR	RFEC200
2	C215 C217	62-3209	CAP 0.22uF CER 50V 10% X7R 1206 TA	PT2271	C0.22UC50K1206	1206
4	C226-229	62-1308	CAP 1000pF CER 50V 20% Y5V 0603 TA	PT2651	C1000PC50M0603	0603
2	C159 C177	60-0064	CAP 1000uF EL 16V 20% GP 10x17R 5LL BK	PT1334	C1000UE16MR	REM200P
2	C92-93	60-1073	CAP 1000uF EL 35V 20% HT 13x25R 5LL BK	PT1971	C1000UE35MR1	REQ200P
4	C5 C79-81	60-0201	CAP 100uF EL 16V 20% GP 6x8R 5LS TA	PT1378	C100UE16MR	REG200P
19	C1 C21 C74 C77 C94-95 C127-128 C133-134 C166 C170 C193-195 C211 C218-219 C241	60-1074	CAP 10uF EL 50V 20% HT 5x11R 5LS TA	PT1972	C10UE50MR1	REE200P
20	C2 C11-12 C23-26 C56 C73 C82 C84 C96 C98-100 C111-112 C136-138	62-1304	CAP 120pF CER 50V 5% NPO 0603 TA	PT2655	C120PC50J0603	0603
6	C155-156 C222-225	62-1300	CAP 15pF CER 50V 5% NPO 0603 TA	PT2659	C15PC50J0603	0603
1	C70	60-0010	CAP 22uF EL 35V 20% GP 5x11R 5LS TA	PT2110	C22UE35MR	REE200P
10	C14 C33 C39 C45 C51 C147 C149 C152 C154 C165	60-0402	CAP 22uF ELNP 25V 20% GP 6x11R 5LS TA	PT1084	C22UN25MR	REG200
8	C53 C109 C143 C145 C148 C150-151 C153	62-1306	CAP 330pF CER 50V 10% X7R 0603 TA	PT2653	C330PC50K0603	0603
8	C9-10 C15-16 C29 C85-86 C115	62-1307	CAP 470pF CER 50V 10% X7R 0603 TA	PT2652	C470PC50K0603	0603
3	C123-124 C140	62-1302	CAP 47pF CER 50V 5% NPO 0603 TA	PT2657	C47PC50J0603	0603
4	C54-55 C101-102	60-0054-01	CAP 47uF EL 16V 20% GP 5x11R 5LS TA	PT1108	C47UE16MR	REE200P
12	C8 C13 C31-32 C37-38 C43-44 C49-50 C121 C146	62-1303	CAP 68pF CER 50V 5% NPO 0603 TA	PT2656	C68PC50J0603	0603
12	D16 D20 D23-28 D30-31 D33 D35	70-0000	DIO 1N4001 50V 1 AMP AMMO TA	PT1003	D1N4001-R	RDB200
25	D1-7 D9 D13-15 D21-22 D37-48	70-0113	DIO MMBD4148SE DUAL 75V 600mA SOT-23 TA	PT1326	D1N4148SE-S	SOT-23
1	D8	OMIT	OMIT DIO MMBD4148SE DUAL 75V 600mA SOT-23 TA (70-0113)	PT1327	D1N4148SE-S-O	SOT-23
1	D34	70-0147	DIO SCHOTTKY 1A SS14 DO-214AC/SMA	PT1877	DSS14S	DO-214AC/SMA
2	A4-5	NON-PART	NON-PART, FIDUCIAL, TARGET FOR AUTO INSERTION	PT1271	FIDUCIAL	FIDUCIAL
4	A1-3 A6	NON-PART	NON-PART FIDUCIAL TARGET FOR AI AND XRAY	PT2796	FIDUCIAL-XRAY	FIDUCIAL-XRAY

2	J7 J9	32-0172	HCN CONN 30 PIN .5 MM CNTS 1X30 FML RA	PT2724 HCN320172	HC320172
1	J12	32-0176	HCN CONN 20 PIN FEM VRT MNT SMT	PT2773 HCN320176	HC102V079050FS
1	P3	32-1055	HDR, 20 PIN, 0.1" SPC, 2 X 10, VERT, MALE	PT1340 HDR321055	HC102
2	P4-5	32-1080	HDR, 3 PIN, 0.1" SPC, 1 X 3, LCK, R/A, MALE	PT1073 HDR321080	HC3L
1	P1-A	OMIT	OMIT HDR 3 PIN 0.1" SPC 1 X 3 VERT MALE CUT FROM 14 PIN (32-1067)	PT2703 HDR321067-0	HC31
1	P2	OMIT	OMIT HDR 5 PIN 0.1" SPC 1 X 5 VERT MALE	PT2788 HDR321074-0	HC51M
1	P21	OMIT	OMIT HDR 14 PIN 0.1" SPC 2 X 7 VERT MALE (32-1083)	PT2127 HDR321083-0	HC72
1	H1	OMIT	OMIT, HDR, 5 PN, 0.079" SP, 1 X 5, 0.020" PS LK SD PO VT MA (32-1101)	PT1825 HDR321101-0	HC579LSFPM
1	P8	OMIT	OMIT HDR 3 PIN .098 SPC 3X1 SHROUDED VERTICAL MT. (32-1243)	PT2795 HDR321243-0	HC31V98SP
4	HS1-4	70-4215	HEATSINK, TO-220, VERT	PT1339 HS704215	HS704215
3	J3 J8 J10	32-0206	CON, JACK, XLR, R/A, PCA A SERIES	PT1219 J320206	XLRF-1
1	LBL1	30-0121	LABEL BARCODE AUTOINSERTABLE RAW	PT2790 LABEL300121	LABEL300121
39	DS1-2 DS5 DS7-8 DS10-11 DS15-18 DS24-28 DS34-36 DS41-48 DS54-55 DS57-58 DS63-64 DS66-67 DS72-75	70-3207	LED GREEN D1206 T&R	PT1902 LEDG703207	D1206
10	DS9 DS14 DS20 DS30-31 DS39 DS50 DS60 DS69 DS78	70-3209	LED RED D1206 T&R	PT1901 LEDR703209	D1206
19	DS3-4 DS6 DS12-13 DS19 DS23 DS29 DS33 DS38 DS40 DS49 DS51 DS59 DS61 DS68 DS70 DS76 DS79	70-3208	LED YELLOW D1206 T&R	PT1900 LEDY703208	D1206
9	L1 L3-4 L6 L11-12 L16-18	26-0000	IND FBD 600 OHM @ 100Hz 200mA 0603 TA	PT2728 LFB260000	0603
18	L2 L9-10 L13-15 L19-30	26-0001	IND FBD 2.5K OHM @ 100Hz, 50mA 0603 TA	PT2729 LFB260001	0603
1	R150	26-0217	IND FBD 2.5K OHM @ 70MHz 0805 TA	PT1261 LFB260217	0805
1	L8	26-0002	IND PWR 100uH 3A	PT2754 LI260002	UP3B
2	LP1-2	NON-PART	NON-PART 6 POS NOT INSTALLED UNTIL MECHANICAL ASSY(LIGHT PIPE)	PT1967 LP242015-6	LP242015-6
6	LP3-8	NON-PART	NON-PART 8 POS NOT INSTALLED UNTIL MECHANICAL ASSY(LIGHT PIPE)	PT1968 LP242015-8	LP242015-8
1	GP1	NON-PART	NON-PART MECCA GND/PWR TIE POINT 4 POS	PT2482 MECCA4	MECCA4
6	MH3-6 MH8 MH12	NON-PART	NON-PART, MOUNTING HOLE, 0.130" NON-PLATED, #4	PT1242 MH130	MH130
2	MH7 MP2	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	PT2794 MH156-TOOL	MH156-TOOL
1	MH10	NON-PART	NON-PART MECHANICAL PLATED HOLE 225 PAD 130 HOLE #4	PT1998 MP225H130	MP225H130
4	MP1 MP3-5	NON-PART	NON-PART, MECHANICAL PLATED HOLE, 300 PAD, 156 HOLE, #6	PT1045 MP300H156	MP300H156
6	J1-2 J4-6 J11	32-0204	CON, PLUG, XLR, R/A, PCA A SERIES	PT1218 P320204	XLRM-1
1	Q1	70-1035	XSTR, 2N44402, PNP, SIGNAL, TO-92, AMMO	PT1527 Q2N4402	TO92(EBC)-V
10	Q2-3 Q8-15	70-1058	XSTR, 2N3904, NPN, SOT-23, T&R	PT1203 Q2N3904-S	SOT-23
15	R7 R11 R13 R35 R37 R91 R200 R222 R277 R289 R335 R338-339 R341-342	50-1300	RES 0 5% 1/16W SM 0603 TA	PT2508 R0-B5-0603	0603
6	R8 R10 R12 R58-59 R295	OMIT	OMIT RES 0 5% 1/16W SM 0603 TA (50-1300)	PT2509 R0-B5-06030	0603
7	R157-158 R167-168 R170-172	50-0317	RES 0 5% 1/4W CF RR TA	PT1008 R0-E5-R	RRA200
1	R160	OMIT	OMIT RES 0 5% 1/4W CF RR TA (50-0317)	PT1596 R0-E5-RO	RRA200
2	R163-164	52-1340	RES 10.7K 1% 1/16W SM 0603 TA	PT2592 R10.7KB1-0603	0603
5	R39 R54 R183-184 R312	52-1304	RES 100 1% 1/16W SM 0603 TA	PT2512 R100-B1-0603	0603
4	R103-104 R253-254	52-1360	RES 100K 1% 1/16W SM 0603 TA	PT2613 R100KB1-0603	0603
43	R1-4 R6 R14 R16 R20 R23 R28-29 R36 R49 R56 R112 R118 R124 R130 R136 R143 R159 R185-188 R192-193 R197 R199 R201 R209	52-1338	RES 10K 1% 1/16W SM 0603 TA	PT2584 R10KB1-0603	0603

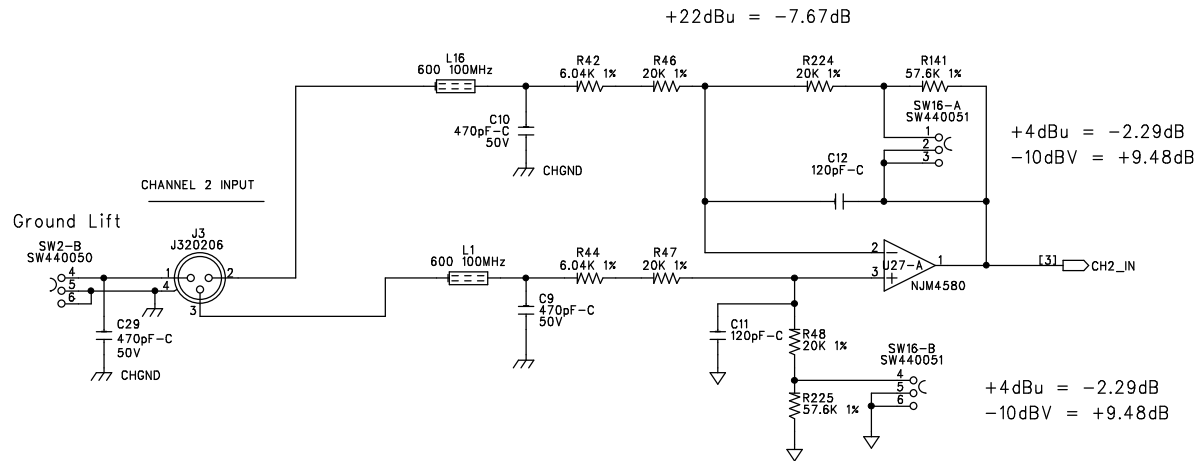
	R212-213 R218-219 R223 R236 R244 R266 R334 R340 R383-384							
12	R34 R57 R64-65 R72-73 R80-81 R88-89 R281-282	52-1342	RES 13.3K 1%	1/16W SM 0603 TA		PT2594 R13.3KB1-0603	0603	
1	R267	52-1362	RES 150K 1%	1/16W SM 0603 TA		PT2615 R150KB1-0603	0603	
1	R153	52-1344	RES 15K 1%	1/16W SM 0603 TA		PT2596 R15KB1-0603	0603	
4	R92 R149 R233 R235	52-1305	RES 169 1%	1/16W SM 0603 TA		PT2513 R169-B1-0603	0603	
11	R156 R173-174 R210-211 R269-274	52-1313	RES 1K 1%	1/16W SM 0603 TA		PT2550 R1KB1-0603	0603	
1	R336	52-1372	RES 1M 1%	1/16W SM 0603 TA		PT2625 R1MB1-0603	0603	
4	R74 R90 R226 R232	52-1317	RES 2.21K 1%	1/16W SM 0603 TA		PT2555 R2.21KB1-0603	0603	
10	R24 R66 R83 R109 R121 R133 R146 R190 R231 R247	52-1319	RES 2.67K 1%	1/16W SM 0603 TA		PT2557 R2.67KB1-0603	0603	
2	R175 R337	52-1300	RES 20 1%	1/16W SM 0603 TA		PT2507 R20-B1-0603	0603	
16	R38 R43 R176-182 R189 R191 R194-196 R332-333	52-1306	RES 200 1%	1/16W SM 0603 TA		PT2514 R200-B1-0603	0603	
8	R46-48 R94-96 R224 R228	52-1346	RES 20K 1%	1/16W SM 0603 TA		PT2598 R20KB1-0603	0603	
1	R255	52-1364	RES 221K 1%	1/16W SM 0603 TA		PT2617 R221KB1-0603	0603	
13	R40 R75 R82 R98-100 R154-155 R221 R229-230 R241 R262	52-1316	RES 2K 1%	1/16W SM 0603 TA		PT2553 R2KB1-0603	0603	
12	R5 R26 R50 R110 R113 R122 R125 R134 R137 R147 R237 R248	52-1322	RES 3.16K 1%	1/16W SM 0603 TA		PT2560 R3.16KB1-0603	0603	
6	R41 R111 R123 R135 R148 R249	52-1323	RES 3.24K 1%	1/16W SM 0603 TA		PT2561 R3.24KB1-0603	0603	
26	R25 R31-33 R60-63 R68-71 R76-79 R84-87 R105 R165 R321-322 R357-358	52-1324	RES 3.32K 1%	1/16W SM 0603 TA		PT2562 R3.32KB1-0603	0603	
50	R9 R67 R161-162 R203-204 R234 R242 R251-252 R256-257 R259-260 R264-265 R279-280 R283-284 R287-288 R291-294 R297-300 R302-305 R307-310 R313-316 R318-320 R323 R325-328	52-1307	RES 332 1%	1/16W SM 0603 TA		PT2543 R332-B1-0603	0603	
6	R101-102 R152 R261 R263 R275	50-1325	RES 33K 5%	1/16W SM 0603 TA		PT2589 R33KB5-0603	0603	
1	R169	52-1301	RES 39.2 1%	1/16W SM 0603 TA		PT2515 R39.2-B1-0603	0603	
1	R382	52-1355	RES 39.2K 1%	1/16W SM 0603 TA		PT2608 R39.2KB1-0603	0603	
13	R21-22 R107-108 R119-120 R131-132 R144-145 R245-246 R364	52-1327	RES 4.53K 1%	1/16W SM 0603 TA		PT2565 R4.53KB1-0603	0603	
1	R30	52-1368	RES 475K 1%	1/16W SM 0603 TA		PT2621 R475KB1-0603	0603	
2	R330-331	52-1356	RES 49.9K 1%	1/16W SM 0603 TA		PT2609 R49.9KB1-0603	0603	
17	R151 R198 R202 R250 R258 R278 R285-286 R290 R296 R301 R306 R311 R317 R324 R329 R365	52-1308	RES 499 1%	1/16W SM 0603 TA		PT2545 R499-B1-0603	0603	
6	R19 R55 R117 R129 R142 R243	52-1331	RES 5.76K 1%	1/16W SM 0603 TA		PT2576 R5.76KB1-0603	0603	
4	R97 R141 R225 R227	52-1357	RES 57.6K 1%	1/16W SM 0603 TA		PT2610 R57.6KB1-0603	0603	

				051790c0.pps			
11	R15 R27 R42 R44-45 R51 R93 R114 R126 R138 R238	52-1332	RES 6.04K 1% 1/16W SM 0603 TA	PT2577	R6.04KB1-0603	0603	
12	R17-18 R52-53 R115-116 R127-128 R139-140 R239-240	52-1303	RES 60.4 1% 1/16W SM 0603 TA	PT2511	R60.4-B1-0603	0603	
1	R268	52-1358	RES 63.4K 1% 1/16W SM 0603 TA	PT2611	R63.4KB1-0603	0603	
1	R220	52-1311	RES 681 1% 1/16W SM 0603 TA	PT2548	R681-B1-0603	0603	
9	R205-208 R214-217 R276	52-1335	RES 7.5K 1% 1/16W SM 0603 TA	PT2581	R7.5KB1-0603	0603	
2	R106 R166	52-1336	RES 8.06K 1% 1/16W SM 0603 TA	PT2582	R8.06KB1-0603	0603	
1	P6	38-0001	RBN CBL 20 COND. 0.1", 4.25"	PT2772	RC20-380001	RC380001	
2	SC14-15	34-0125	SWITCH CAP, BLACK, ROUND	PT1354	SC340125	SC340125-FPE	
1	SC13	34-0198-C	SWITCH CAP LIGHT PIPE SNGL LED HORZ	PT2504	SC340198C	SC340198C	
12	SC1-12	34-0199-A	SWITCH CAP dbx LIGHTED	PT2024	SC340199A	PCBNULL	
1	S6	70-3026	SOCKET, PLCC 32, PLCC/R-32SKT	PT1419	SKT32-703026	PLCC/R-32SKT	
1	SW2	44-0050	SWITCH DPDT MINI IN-OUT 6 PIN E-SWITCH	PT1256	SW440050	SW440050	
2	SW1 SW16	44-0051	SWITCH, 4PDT, MINI IN-OUT, 12 PIN, E-SWITCH	PT1257	SW440051	SW440051	
1	SW15	44-0119	ENCODER 20mm D SHAFT 30 POS W/SWITCH VERT MOUNT	PT1890	SW440119	SW440119	
12	SW3-7 SW9-14 SW17	44-0185	SWITCH, SPST, LITE TOUCH, MINI, W/ PROJECTED PLUNGER SMT	PT1962	SW440185	SW4PTACT-3	
7	TP1-2 TP4 TP8-10 TP12	NON-PART	NON-PART, TEST POINT, ENGINEERING PROBE POINT	PT1653	TESTPOINT	TESTPOINTSM	
1	U28	70-4014	V-REG, 7805, +5V, 1.5 AMP, TO-220	PT1591	U7805	TO220(IGO)-V	
1	U10	70-4123	V-REG, 7815, +15V, 1 AMP, TO-220	PT1592	U7815	TO220(IGO)-V	
1	U12	70-4124	V-REG, 7915, -15V, 1 AMP, TO-220	PT1594	U7915	TO220(GIO)-V	
1	U7	72-0046	IC 25AA640 64K SERIAL EEPROM TA	PT2774	U25AA260	SO8	
1	U5	72-6318	IC 32K x 8 SRAM 15ns SOJ28	PT2294	U32K8S15-J	SOJ28-300	
6	U2 U33 U36 U38 U42 U51	72-1439	IC, 5532MD, DUAL BIPOLAR OPAMP, SO8-200	PT1306	U5532MD-S	SO8-200	
2	U25 U48	72-5426	IC, 74AC04, HEX INVERTER, SO14, T&R	PT1325	U74AC04-S	SO14	
1	U21	72-5437	IC 74VHC273 FLIP-FLOP OCTAL-D SO20W T&R	PT1909	U74VHC273-S	SO20W	
1	U17	72-0045	IC 74VHC373 OCTAL LATCH SO20W	PT2771	U74VHC373-S	SO20W	
1	U44	72-0044	IC 74VHC4040 12 BIT RIPPLE COUNTER SO16	PT2759	U74VHC4040-S	SO16	
1	U20	72-6316	IC 78L32P-24 8 BIT MICROCONTROLLER 3.3V	PT2316	U78L32P-24	PLCC-44	
1	U11	72-1485	IC AK4356 192kHz 24 BIT 6 CHANNEL DAC	PT2717	UAK4356-Q	QFP44-10X10	
1	U26	72-1266	IC, AK5383, 96 kHz, DUAL 24BIT ADC, SO28W	PT1557	UAK5383-S	SO28W	
1	U1	72-6305	IC DSP56367 DSP 150MHZ QFP144-20X20	PT2452	UDSP56367-Q	QFP144-20X20	
1	U24	70-4021	V-REG, LD1117V33, +3.3V, 0.8 AMP, TO-220, BULK	PT1795	ULD1117V33	TO220(GOI)-V	
1	U14	70-0063	V-REG LM2575S-ADJ SWITCHING REG 1A TO-263(5)	PT2739	ULM2575S-ADJ	TO-263(5)	
1	U16	70-4007	V-REG, LM317T, ADJ REG, 1.5 AMP, TO-220	PT1785	ULM317T	TO220(AOI)-V	
2	U4 U18	72-5434	IC NC7SZ125 TINYLOGIC BUFFER SOT23-5 TA	PT1881	UNC7SZ125-S	SOT23-5	
1	U3	72-6308	IC NCP304 VOLTAGE DETECTOR SC-82AB	PT2393	UNCP304	SC-82AB	
11	U8-9 U15 U19 U22-23 U27 U60-62 U70	72-1480	IC NUM4580 DUAL OP-AMP SO8	PT1374	UNJM4580-S	SO8	
1	U13	72-0042-00V1	IC CPLD ispLSI2064VE dbx Driverack PA V1	PT2785	UP720042	QFP100-14X14	
1	U6	72-5539-03V1	IC AM29LV040B 512K x 8 FLASH MEMORY dbx Driverack PA V1	PT2292	UP725539	PLCC/R-32	
1	Y3	76-0202	XTAL 24.000MHz METAL CAN SURFACE MOUNT T&R	PT1928	Y24.000M760202	XTAL2-V	
1	X7	76-0006	XTAL 24.576MHz SMT CX16F/CS49G PKG	PT2713	Y24.576M760006	YCX16F/CX49G	

SC15 SC14
SC340125 SC340125

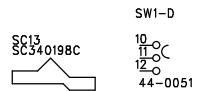
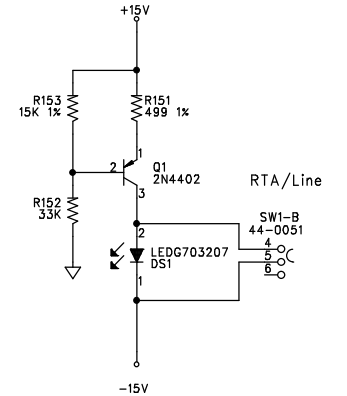
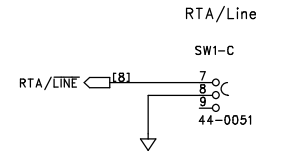
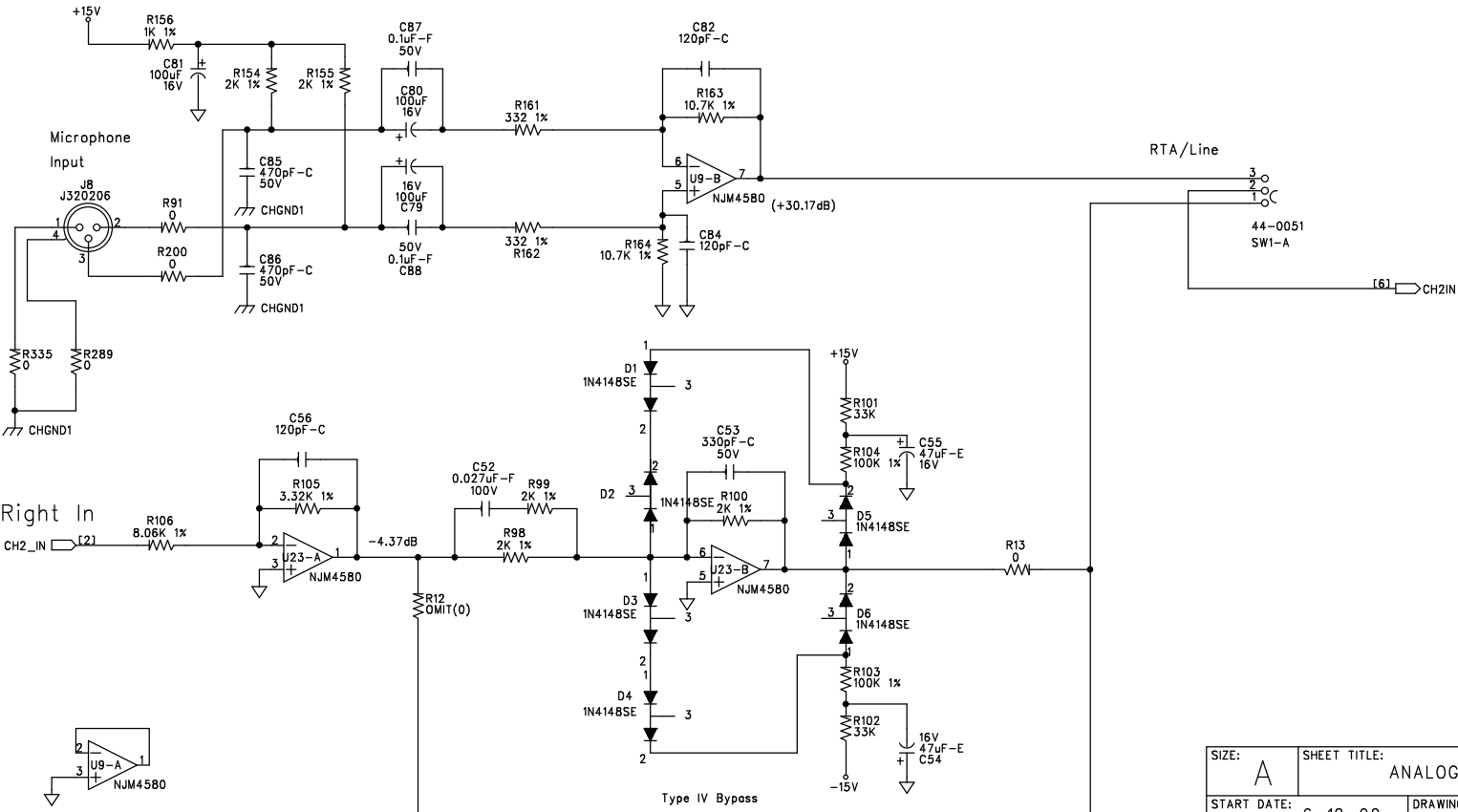
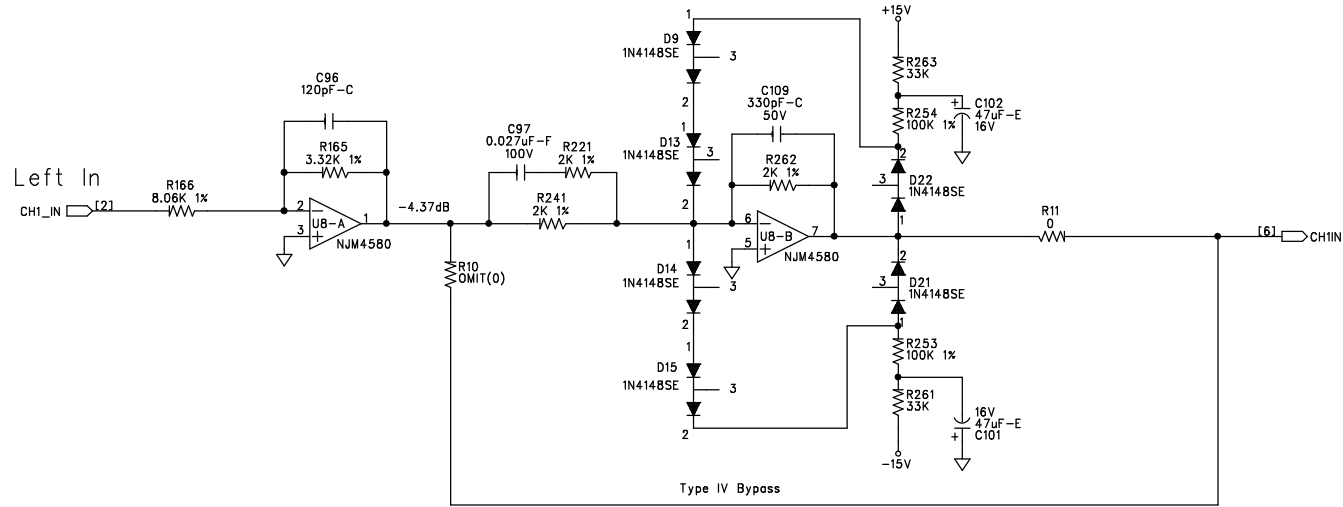


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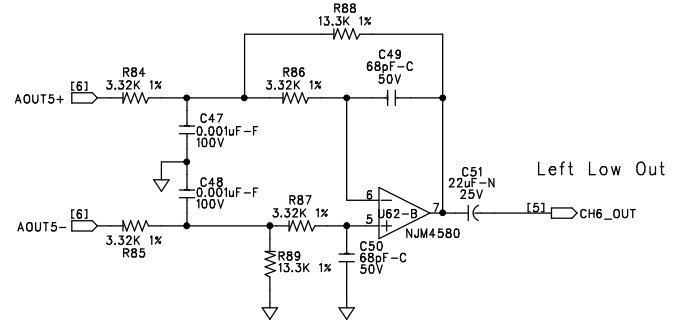
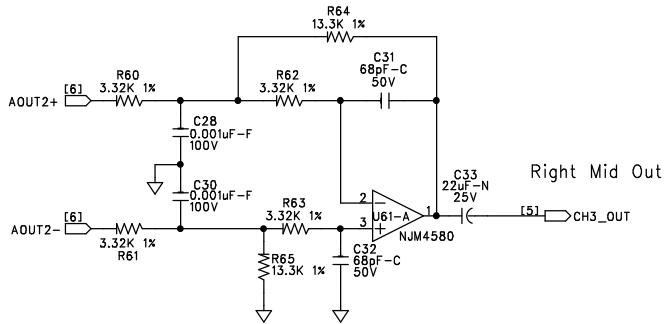
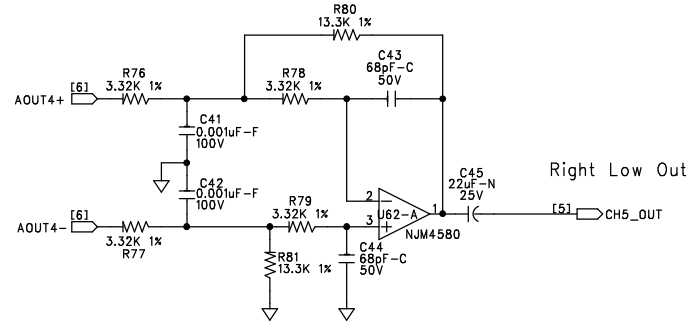
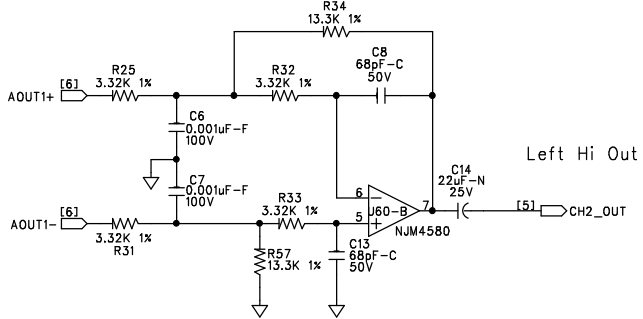
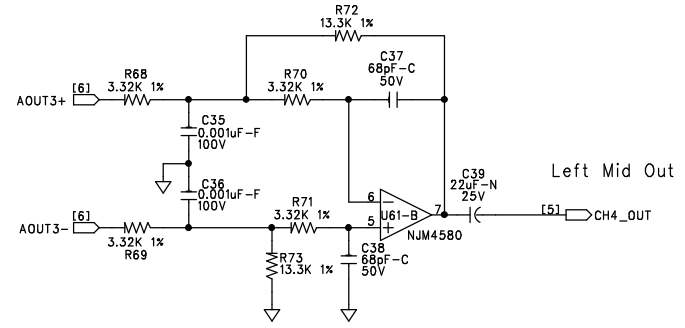
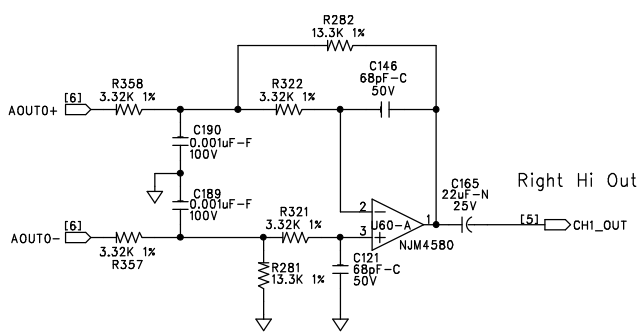


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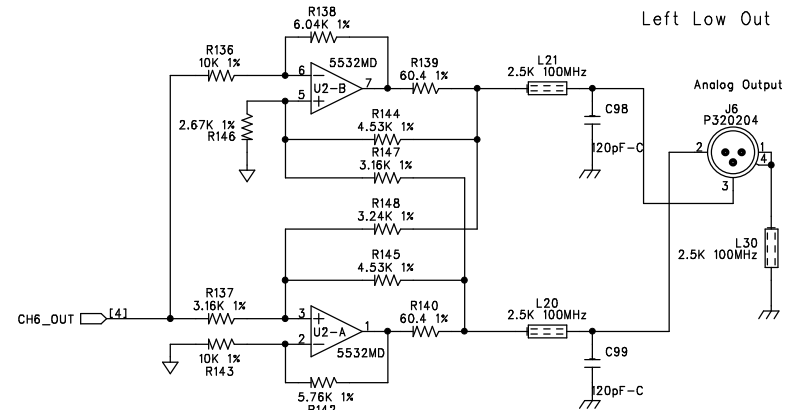
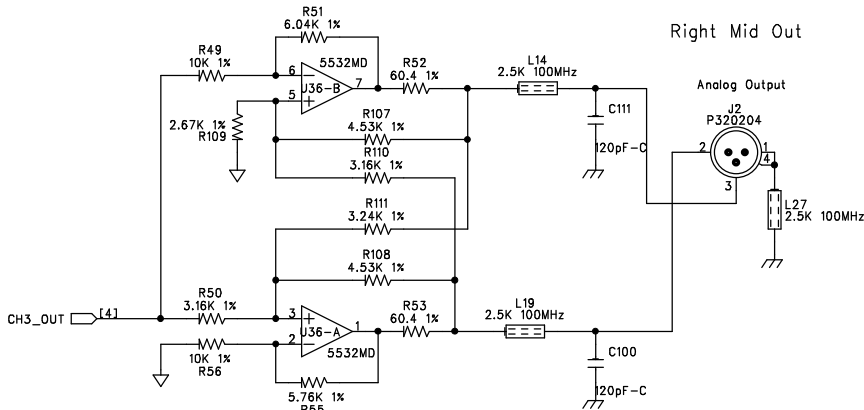
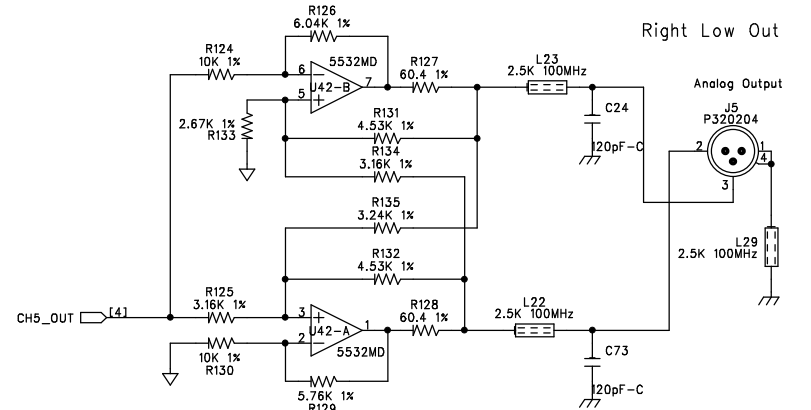
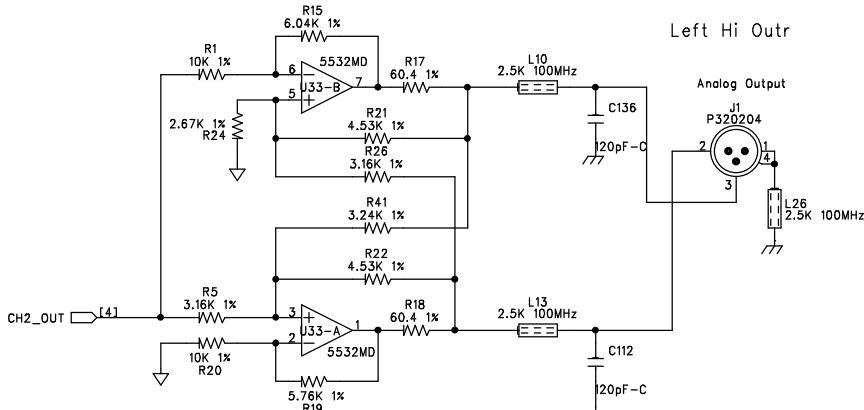
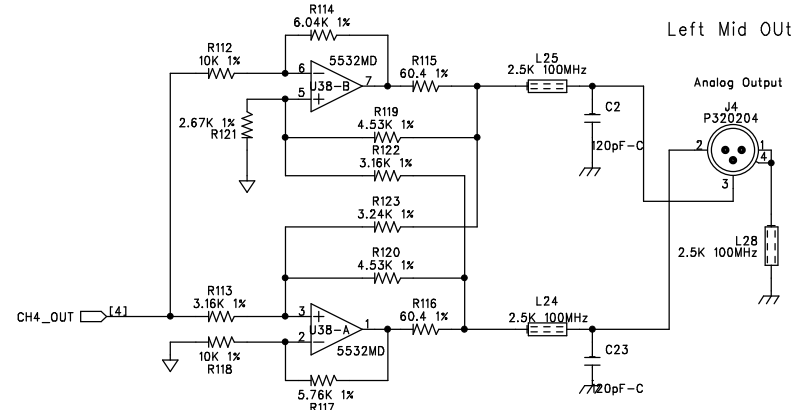
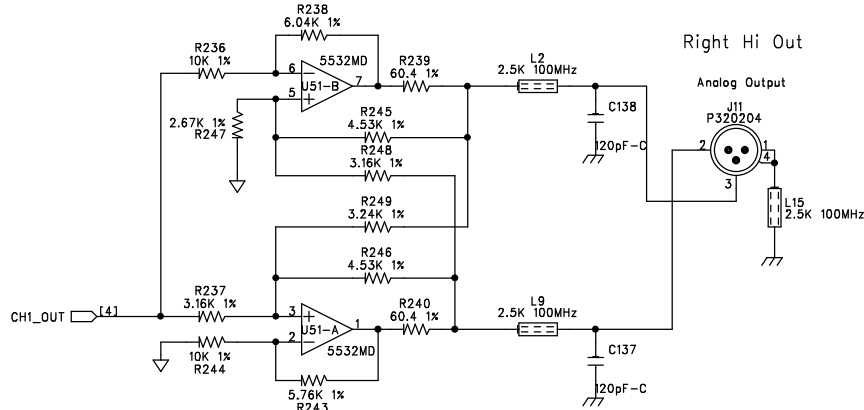
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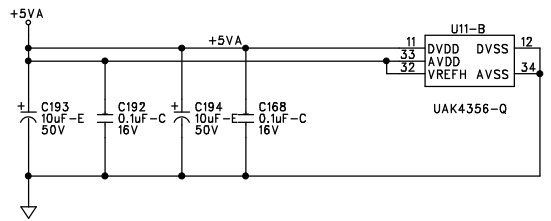
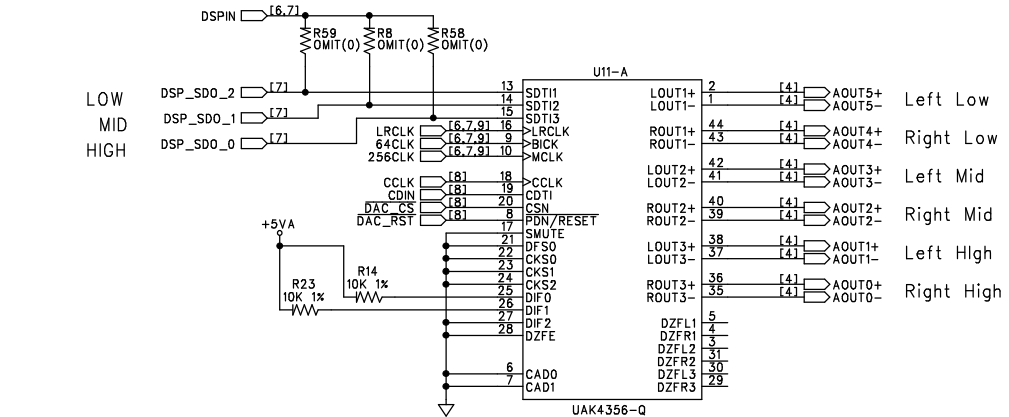
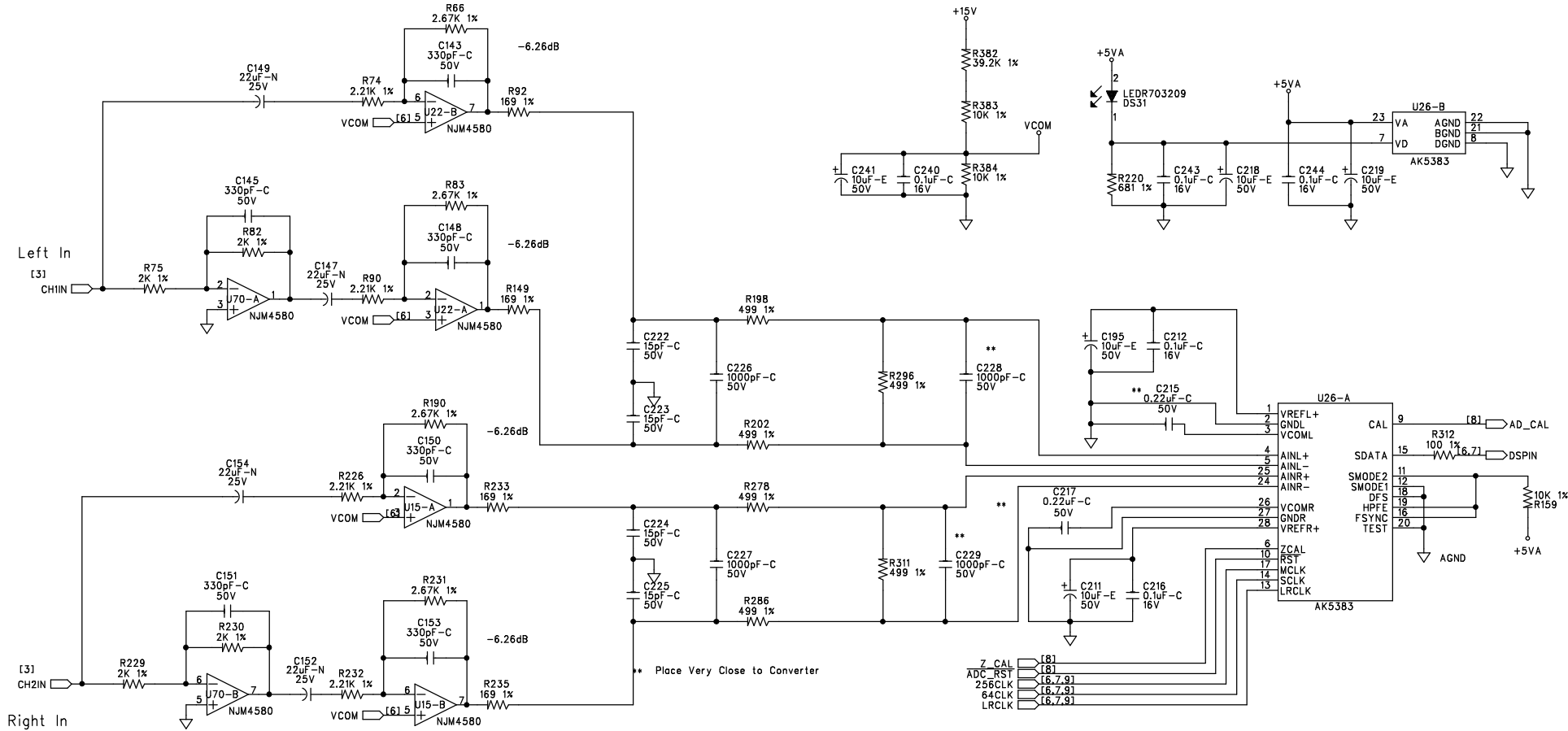
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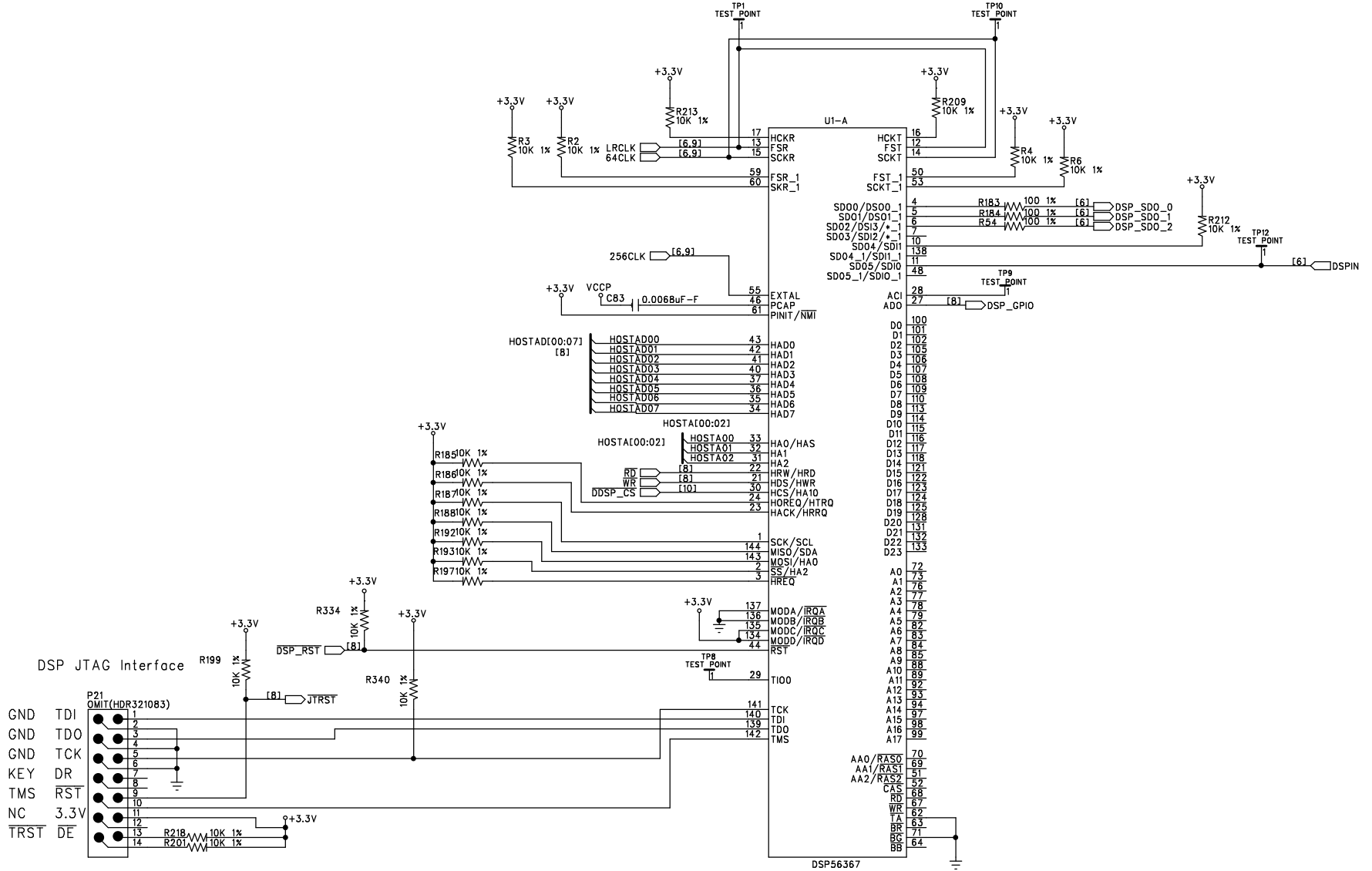
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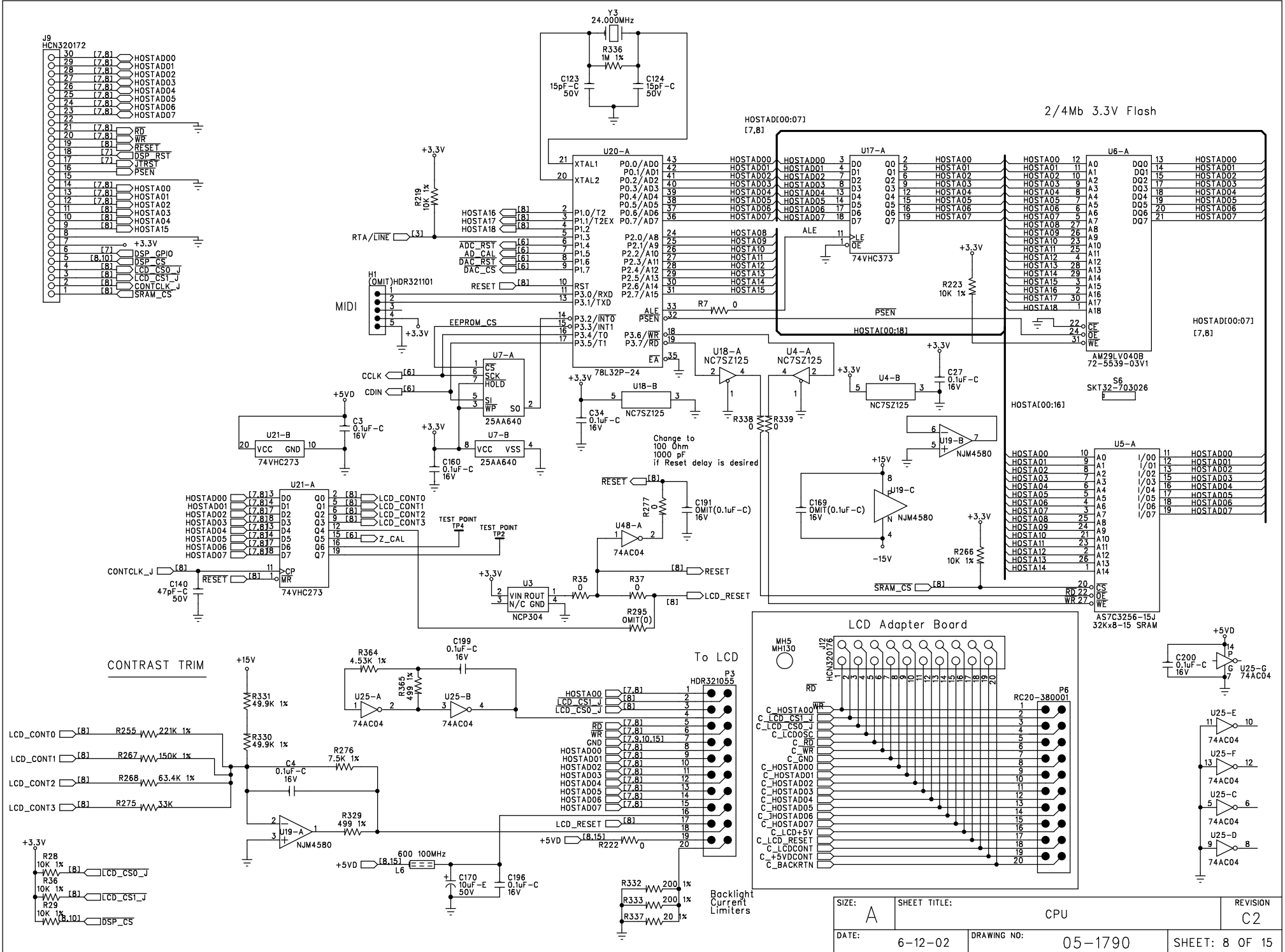


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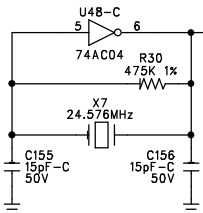




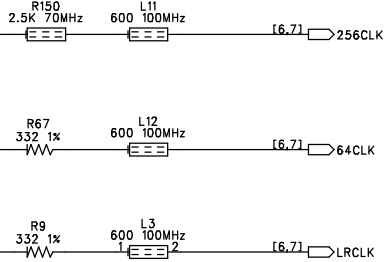
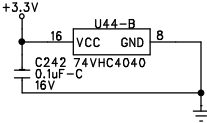
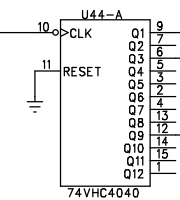
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Divider/Clock Tree

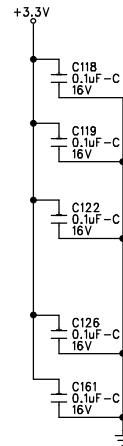
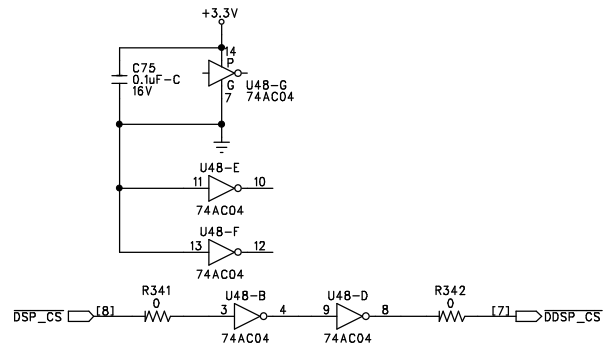
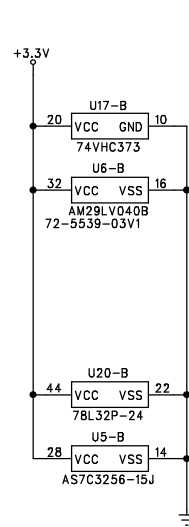
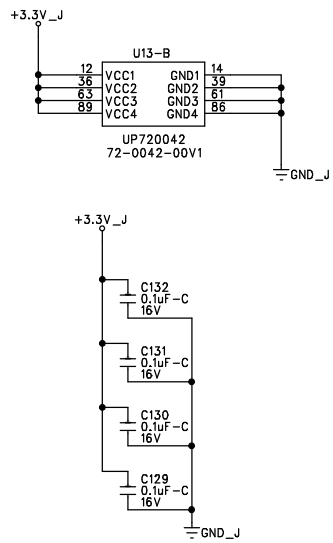
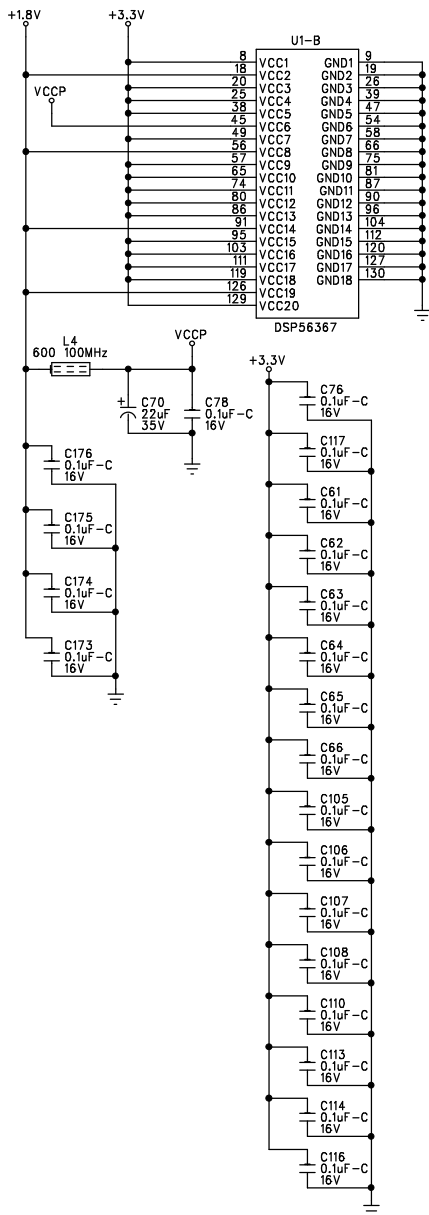
x512fs Crystal Oscillator
24.576 MHz



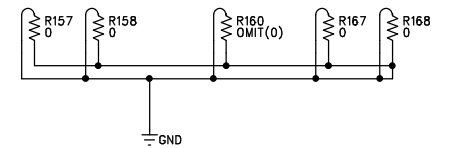
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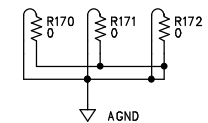
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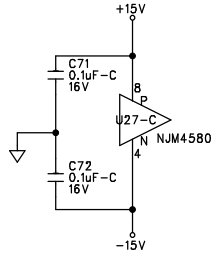
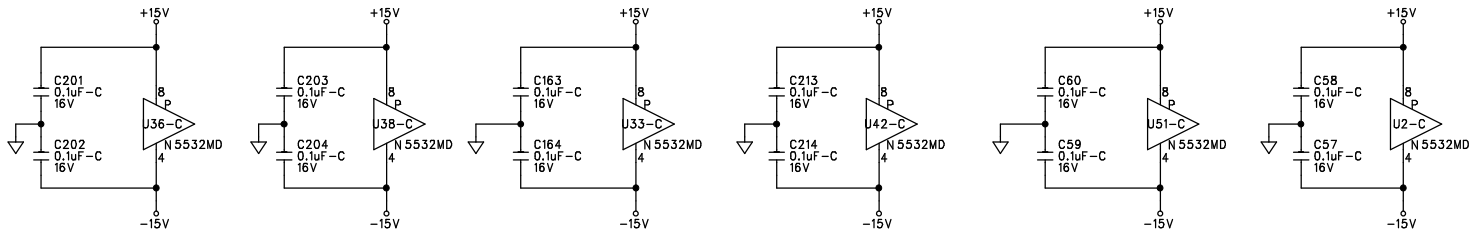
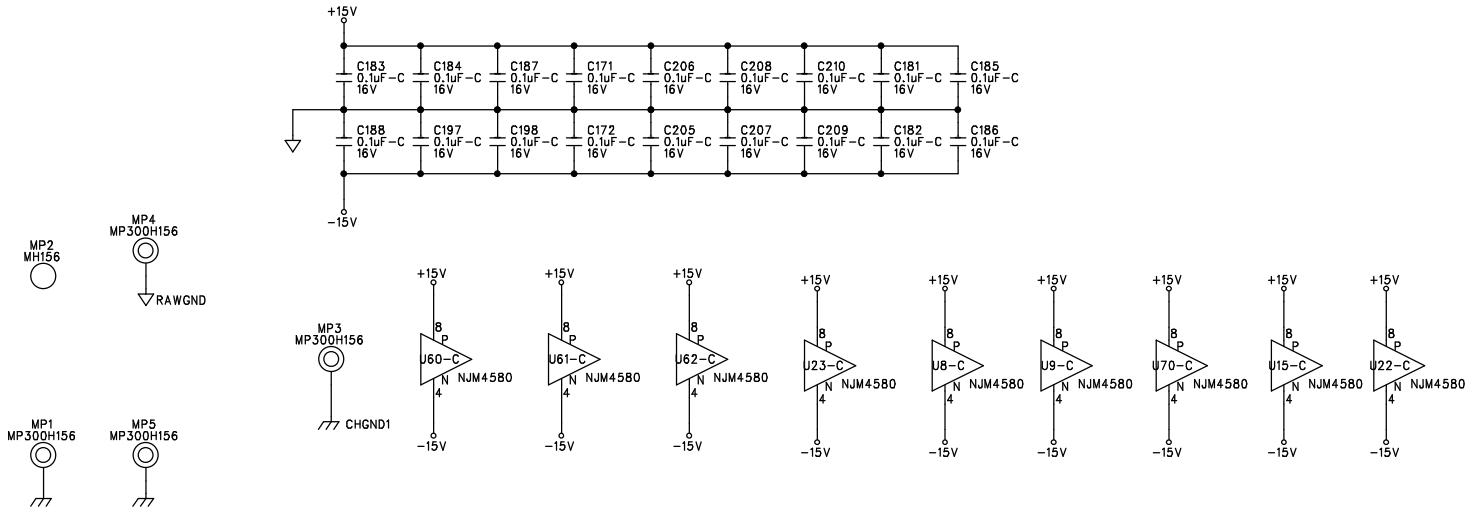
Digital Ground Test Points



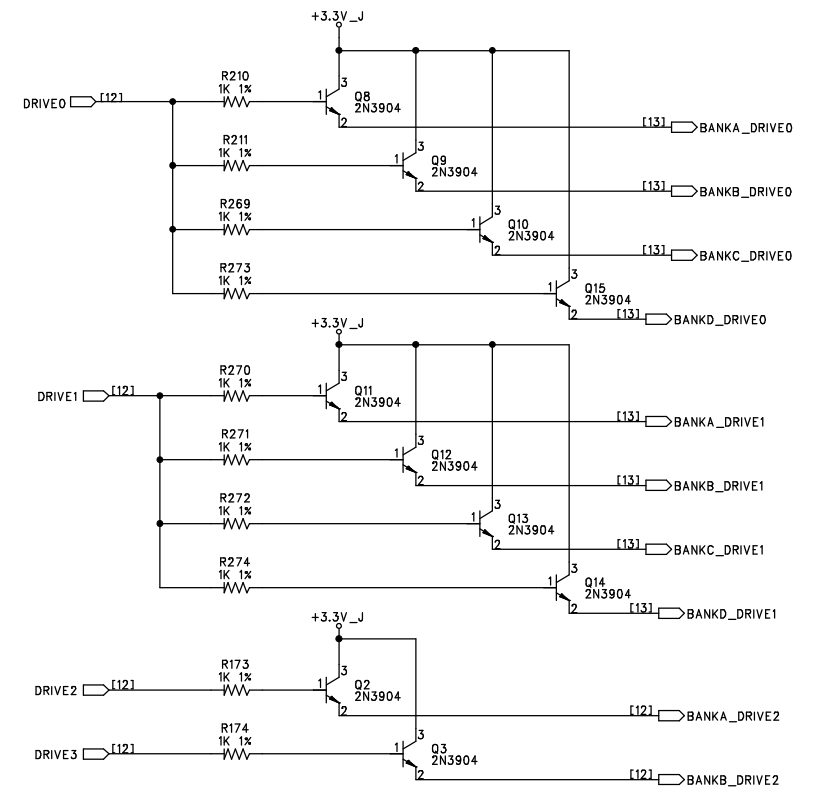
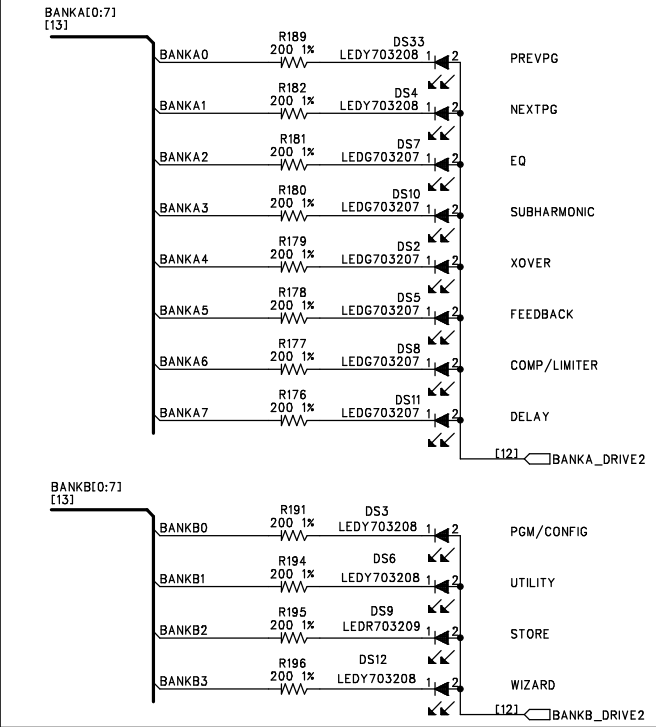
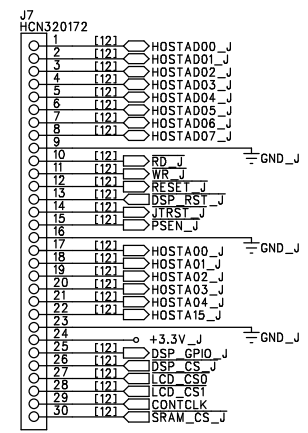
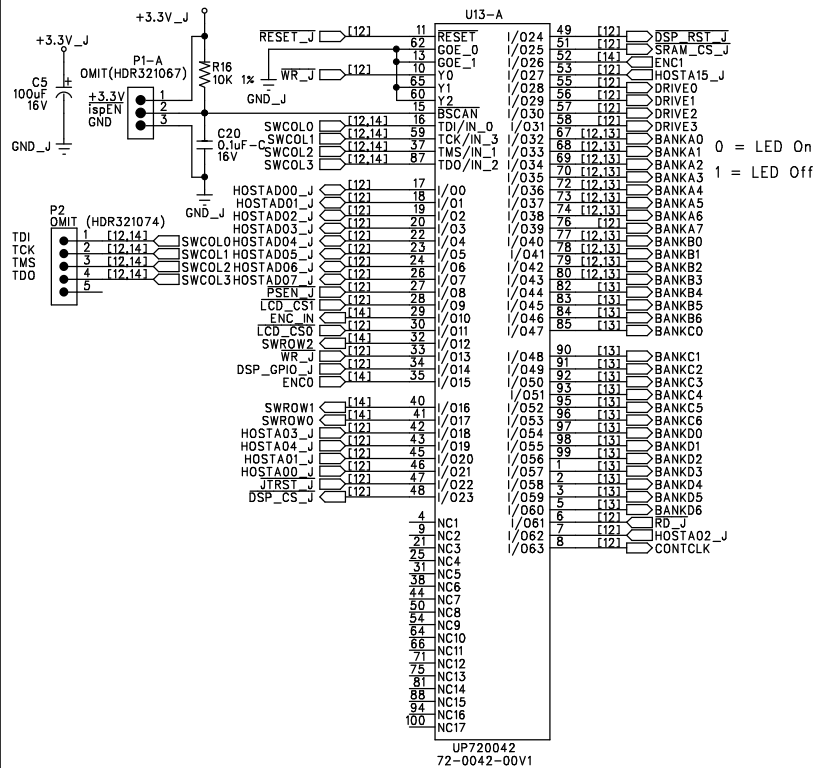
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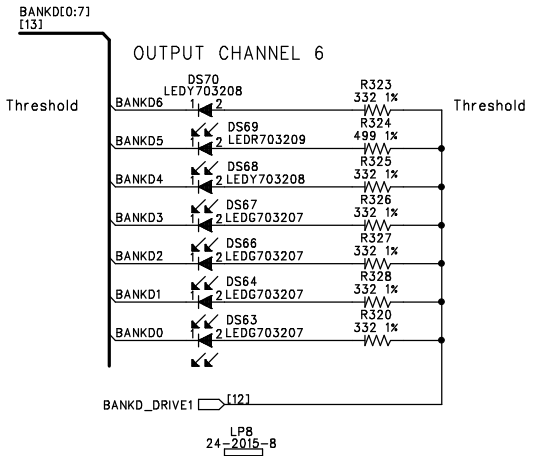
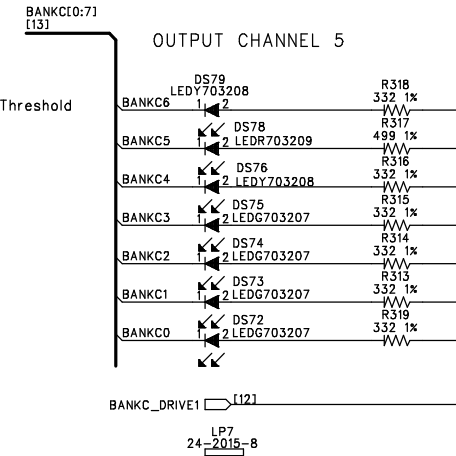
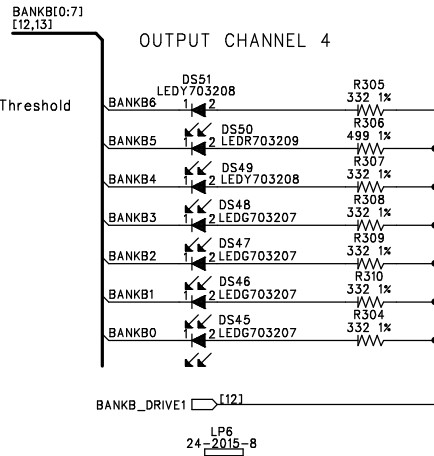
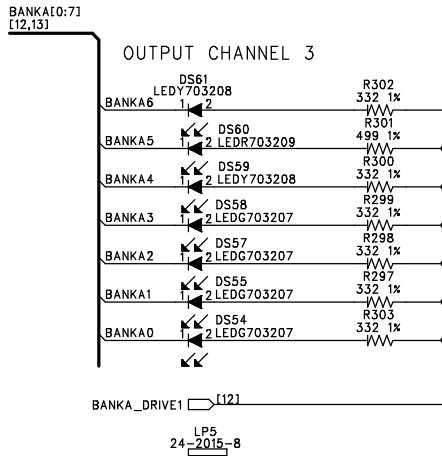
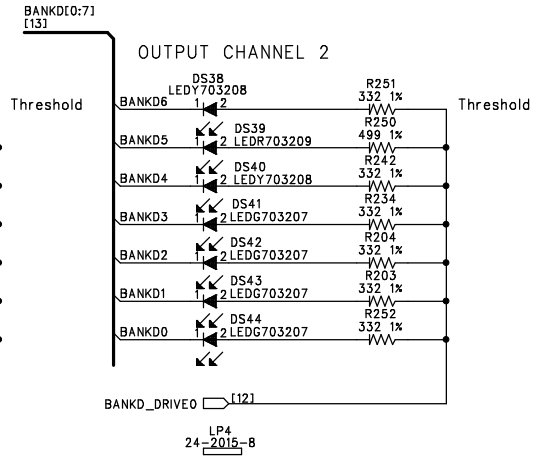
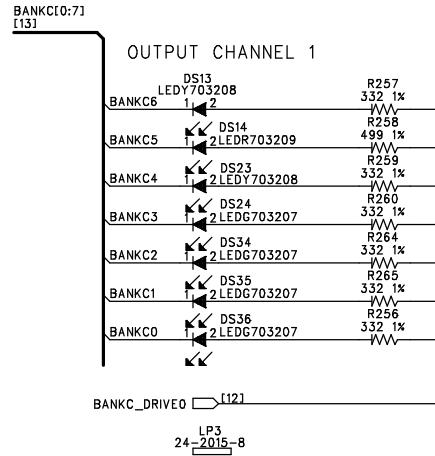
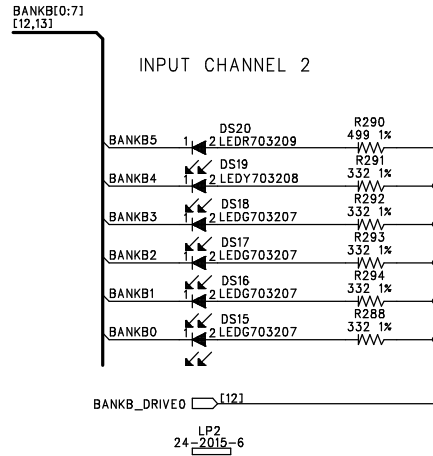
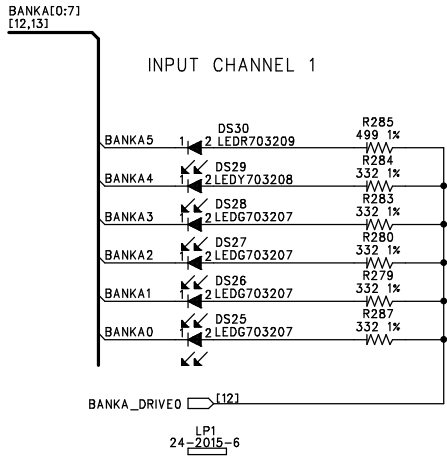
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DATE: 6-12-02	DRAWING NO: 05-1790	SHEET: 10 OF 15



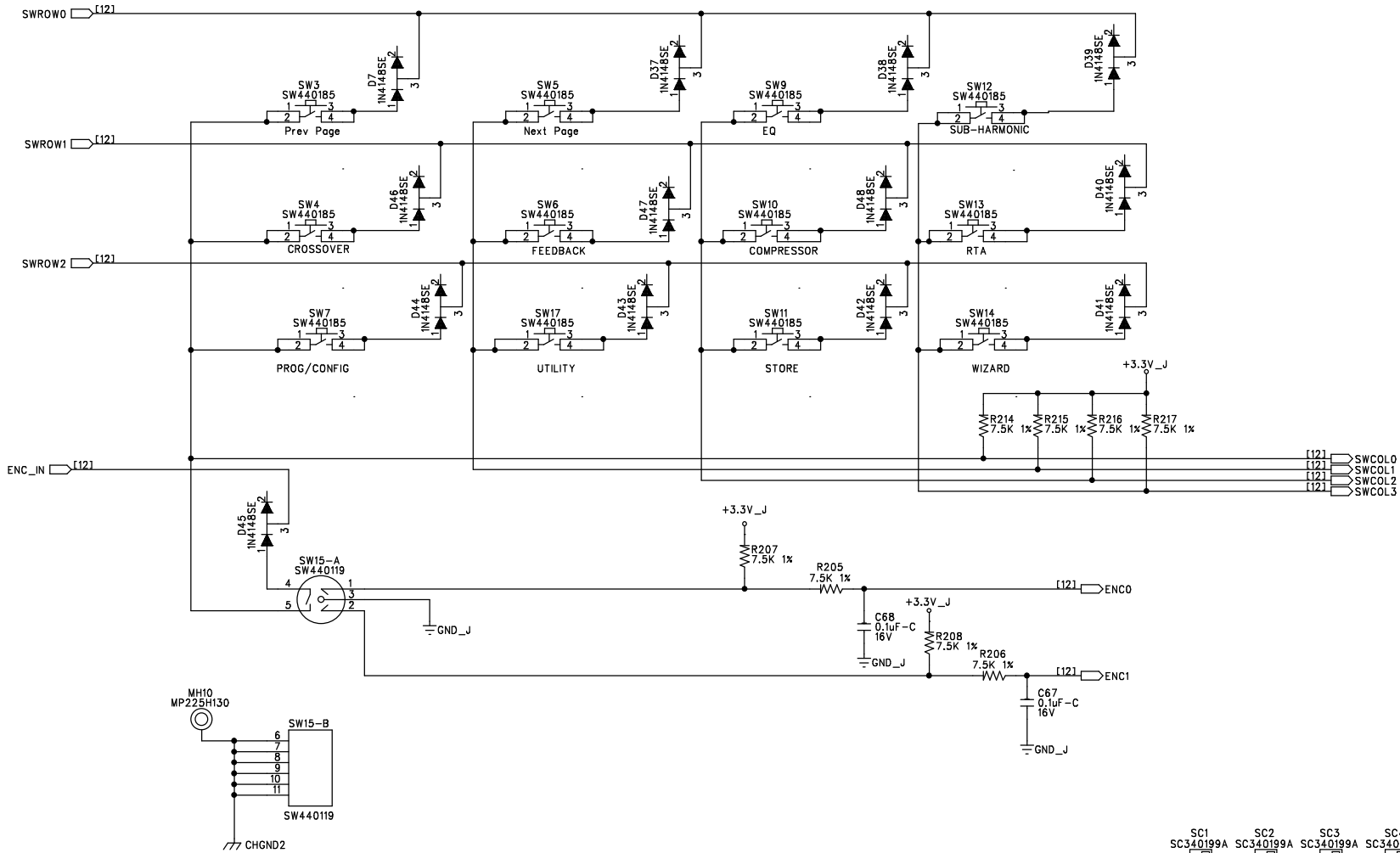
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START DATE: 6-12-02	DRAWING NO: 05-1790	SHEET: 11 OF 15



SIZE: A	SHEET TITLE: FRONT PANEL - LED/LCD CONTROL	REVISION: C2
DATE: 6-12-02	DRAWING NO: 05-1790	SHEET: 12 OF 15

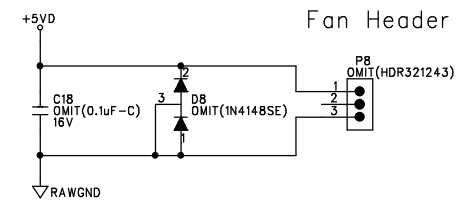
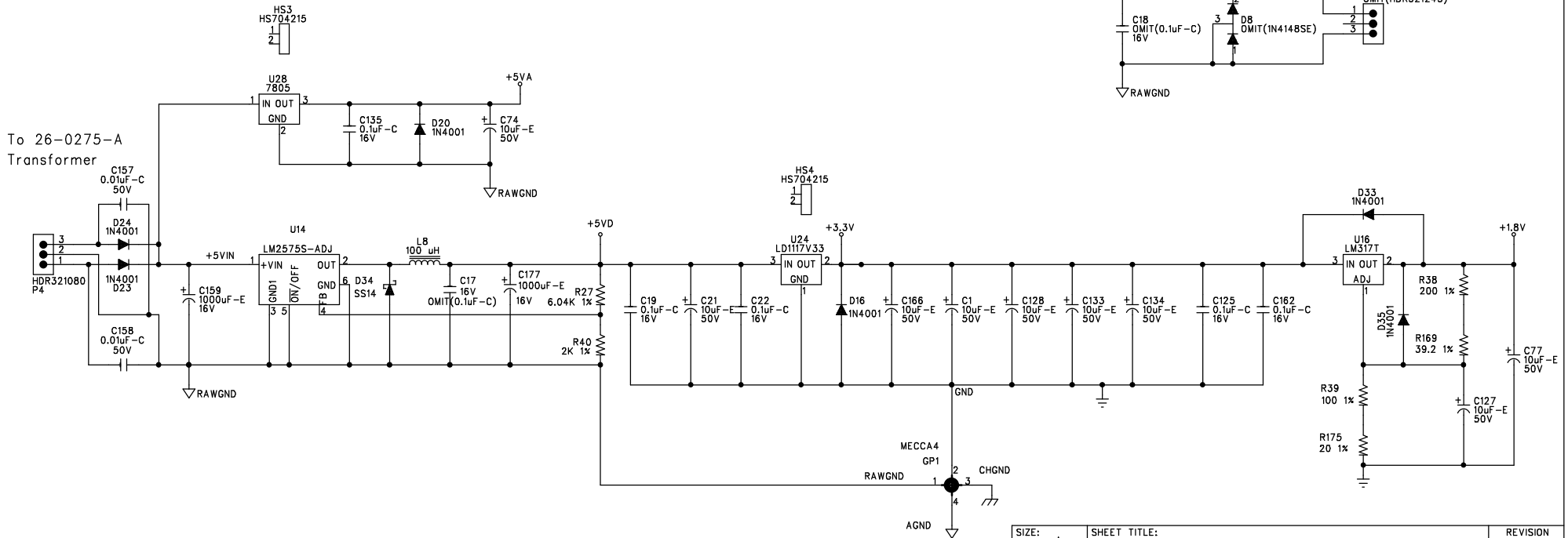
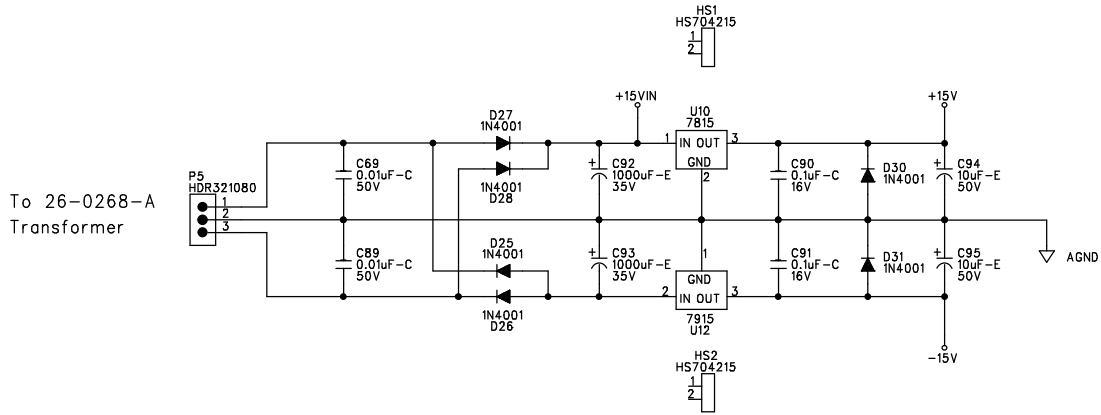


SIZE: A	SHEET TITLE: FRONT PANEL - METER LEDS	REVISION: C2
START DATE: 6-12-02	DRAWING NO: 05-1790	SHEET: 13 OF 15



- SC1 SC340199A
- SC2 SC340199A
- SC3 SC340199A
- SC4 SC340199A
- SC5 SC340199A
- SC6 SC340199A
- SC7 SC340199A
- SC8 SC340199A
- SC9 SC340199A
- SC10 SC340199A
- SC11 SC340199A
- SC12 SC340199A

SIZE:	FRONT PANEL - SWITCHES		REV: C2
DATE:	6-12-02	05-1790	SHEET: 14 OF 15



SIZE: A	SHEET TITLE: POWER SUPPLY	REVISION: C2
DATE: 6-12-02	DRAWING NO: 05-1790	SHEET: 15 OF 15

Bill Of Materials for 051790c2.sch on Wed Jun 12 14:55:16 2002

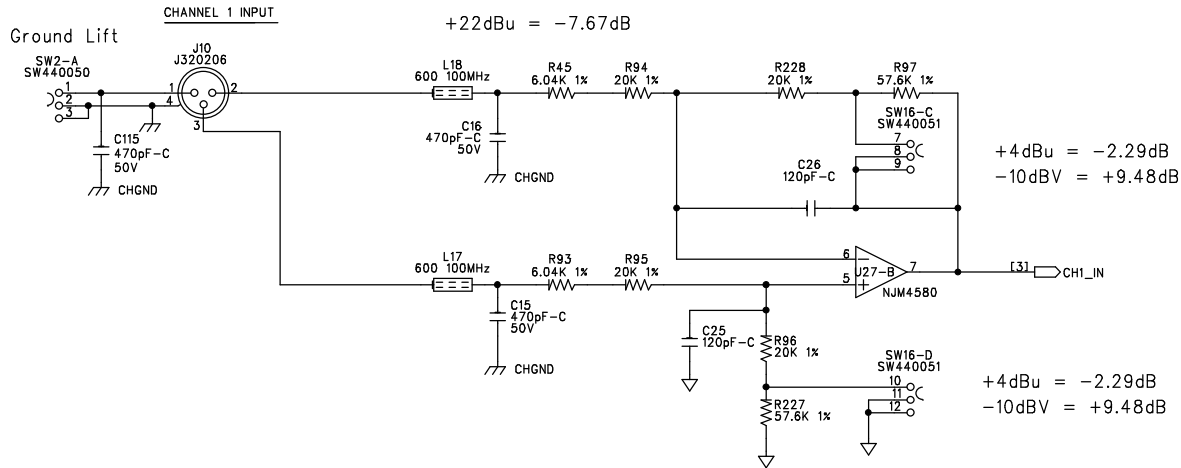
Qty	Reference	HMG#	Description	Audit	Schematic Part	PCB Decal
1	PCB1	80-1790	PCB 80-1790 dbx DRIVERACK PA	PT2044	80XXXXXY	BARCODE
8	A7-9 A15 A17-18 A20 A22	NON-PART	NON-PART, PCB ONLY, BREAKOFF PART	PT1481	BRKOFF	BRKOFF
12	C6-7 C28 C30 C35-36 C41-42 C47-48 C189-190	56-0000	CAP 0.001uF FILM PTR 100V 5% AF TA	PT1629	C0.001UF100JR	RFCC200
1	C83	56-0005	CAP 0.0068uF FILM PTR 100V 5% RF TA	PT1307	C0.0068UF100JR	RFDC200
4	C69 C89 C157-158	62-1311	CAP 0.01uF CER 50V 20% Y5V 0603 TA	PT2665	C0.01UC50M0603	0603
2	C52 C97	56-0033	CAP 0.027uF FILM PTR 100V 5% RF TA	PT1282	C0.027UF100JR	RFEF200
89	C3-4 C19-20 C22 C27 C34 C57-68 C71-72 C75-76 C78 C90-91 C105-108 C110 C113-114 C116-119 C122 C125-126 C129-132 C135 C160-164 C168 C171-176 C181-188 C192 C196-210 C212-214 C216 C240 C242-244	62-1310	CAP 0.1uF CER 16V 20% Y5V 0603 TA	PT2696	C0.1UC16M0603	0603
4	C17-18 C169 C191	OMIT	OMIT CAP 0.1uF CER 16V 20% Y5V 0603 TA (62-1310)	PT2711	C0.1UC16M06030	0603
2	C87-88	56-0012	CAP 0.1uF FILM MTPT 50V 5% RF TA	PT1200	C0.1UF50JR	RFEC200
2	C215 C217	62-3209	CAP 0.22uF CER 50V 10% X7R 1206 TA	PT2271	C0.22UC50K1206	1206
4	C226-229	62-1308	CAP 1000pF CER 50V 20% Y5V 0603 TA	PT2651	C1000PC50M0603	0603
2	C159 C177	60-0064	CAP 1000uF EL 16V 20% GP 10x17R 5LL BK	PT1334	C1000UE16MR	REM200P
2	C92-93	60-1073	CAP 1000uF EL 35V 20% HT 13x25R 5LL BK	PT1971	C1000UE35MR1	REQ200P
4	C5 C79-81	60-0201	CAP 100uF EL 16V 20% GP 6x8R 5LS TA	PT1378	C100UE16MR	REG200P
19	C1 C21 C74 C77 C94-95 C127-128 C133-134 C166 C170 C193-195 C211 C218-219 C241	60-1074	CAP 10uF EL 50V 20% HT 5x11R 5LS TA	PT1972	C10UE50MR1	REE200P
20	C2 C11-12 C23-26 C56 C73 C82 C84 C96 C98-100 C111-112 C136-138	62-1304	CAP 120pF CER 50V 5% NPO 0603 TA	PT2655	C120PC50J0603	0603
8	C123-124 C155-156 C222-225	62-1300	CAP 15pF CER 50V 5% NPO 0603 TA	PT2659	C15PC50J0603	0603
1	C70	60-0010	CAP 22uF EL 35V 20% GP 5x11R 5LS TA	PT2110	C22UE35MR	REE200P
10	C14 C33 C39 C45 C51 C147 C149 C152 C154 C165	60-0402	CAP 22uF ELNP 25V 20% GP 6x11R 5LS TA	PT1084	C22UN25MR	REG200
8	C53 C109 C143 C145 C148 C150-151 C153	62-1306	CAP 330pF CER 50V 10% X7R 0603 TA	PT2653	C330PC50K0603	0603
8	C9-10 C15-16 C29 C85-86 C115	62-1307	CAP 470pF CER 50V 10% X7R 0603 TA	PT2652	C470PC50K0603	0603
1	C140	62-1302	CAP 47pF CER 50V 5% NPO 0603 TA	PT2657	C47PC50J0603	0603
4	C54-55 C101-102	60-0054-01	CAP 47uF EL 16V 20% GP 5x11R 5LS TA	PT1108	C47UE16MR	REE200P
12	C8 C13 C31-32 C37-38 C43-44 C49-50 C121 C146	62-1303	CAP 68pF CER 50V 5% NPO 0603 TA	PT2656	C68PC50J0603	0603
12	D16 D20 D23-28 D30-31 D33 D35	70-0000	DIO 1N4001 50V 1 AMP AMMO TA	PT1003	D1N4001-R	RDB200
25	D1-7 D9 D13-15 D21-22 D37-48	70-0113	DIO MMBD4148SE DUAL 75V 600mA SOT-23 TA	PT1326	D1N4148SE-S	SOT-23
1	D8	OMIT	OMIT DIO MMBD4148SE DUAL 75V 600mA SOT-23 TA (70-0113)	PT1327	D1N4148SE-S-O	SOT-23
1	D34	70-0147	DIO SCHOTTKY 1A SS14 DO-214AC/SMA	PT1877	DSS14S	DO-214AC/SMA
2	A4-5	NON-PART	NON-PART, FIDUCIAL, TARGET FOR AUTO INSERTION	PT1271	FIDUCIAL	FIDUCIAL

4	A1-3 A6	NON-PART	NON-PART FIDUCIAL TARGET FOR AI AND XRAY	PT2796	FIDUCIAL-XRAY	FIDUCIAL-XRAY
2	J7 J9	32-0172	HCN CONN 30 PIN .5 MM CNTS 1X30 FML RA	PT2724	HCN320172	HC320172
1	J12	32-0176	HCN CONN 20 PIN FEM VRT MNT SMT	PT2773	HCN320176	HC102V079050FS
1	P3	32-1055	HDR, 20 PIN, 0.1" SPC, 2 X 10, VERT, MALE	PT1340	HDR321055	HC102
2	P4-5	32-1080	HDR, 3 PIN, 0.1" SPC, 1 X 3, LCK, R/A, MALE	PT1073	HDR321080	HC3L
1	P1-A	OMIT	OMIT HDR 3 PIN 0.1" SPC 1 X 3 VERT MALE CUT FROM 14 PIN (32-1067)	PT2703	HDR321067-0	HC31
1	P2	OMIT	OMIT HDR 5 PIN 0.1" SPC 1 X 5 VERT MALE	PT2788	HDR321074-0	HC51M
1	P21	OMIT	OMIT HDR 14 PIN 0.1" SPC 2 X 7 VERT MALE (32-1083)	PT2127	HDR321083-0	HC72
1	H1	OMIT	OMIT, HDR, 5 PN, 0.079" SP, 1 X 5, 0.020" PS LK SD PO VT MA (32-1101)	PT1825	HDR321101-0	HC579LSPM
1	P8	OMIT	OMIT HDR 3 PIN .098 SPC 3X1 SHROUDED VERTICAL MT. (32-1243)	PT2795	HDR321243-0	HC31V98SP
4	HS1-4	70-4215	HEATSINK, TO-220, VERT	PT1339	HS704215	HS704215
3	J3 J8 J10	32-0206	CON, JACK, XLR, R/A, PCA A SERIES	PT1219	J320206	XLRF-1
1	LBL1	30-0121	LABEL BARCODE AUTOINSERTABLE RAW	PT2790	LABEL300121	LABEL300121
39	DS1-2 DS5 DS7-8	70-3207	LED GREEN D1206 T&R	PT1902	LEDG703207	D1206
	DS10-11 DS15-18					
	DS24-28 DS34-36					
	DS41-48 DS54-55					
	DS57-58 DS63-64					
	DS66-67 DS72-75					
10	DS9 DS14 DS20	70-3209	LED RED D1206 T&R	PT1901	LEDR703209	D1206
	DS30-31 DS39 DS50					
	DS60 DS69 DS78					
19	DS3-4 DS6 DS12-13	70-3208	LED YELLOW D1206 T&R	PT1900	LEDY703208	D1206
	DS19 DS23 DS29 DS33					
	DS38 DS40 DS49 DS51					
	DS59 DS61 DS68 DS70					
	DS76 DS79					
9	L1 L3-4 L6 L11-12	26-0000	IND FBD 600 OHM @ 100Hz 200mA 0603 TA	PT2728	LFB260000	0603
	L16-18					
18	L2 L9-10 L13-15	26-0001	IND FBD 2.5K OHM @ 100Hz, 50mA 0603 TA	PT2729	LFB260001	0603
	L19-30					
1	R150	26-0217	IND FBD 2.5K OHM @ 70MHz 0805 TA	PT1261	LFB260217	0805
1	L8	26-0002	IND PWR 100uH 3A	PT2754	LI260002	UP3B
2	LP1-2	NON-PART	NON-PART 6 POS NOT INSTALLED UNTIL MECHANICAL ASSY(LIGHT PIPE)	PT1967	LP242015-6	LP242015-6
6	LP3-8	NON-PART	NON-PART 8 POS NOT INSTALLED UNTIL MECHANICAL ASSY(LIGHT PIPE)	PT1968	LP242015-8	LP242015-8
1	GP1	NON-PART	NON-PART MECCA GND/PWR TIE POINT 4 POS	PT2482	MECCA4	MECCA4
6	MH3-6 MH8 MH12	NON-PART	NON-PART, MOUNTING HOLE, 0.130" NON-PLATED, #4	PT1242	MH130	MH130
2	MH7 MP2	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	PT2794	MH156-TOOL	MH156-TOOL
1	MH10	NON-PART	NON-PART MECHANICAL PLATED HOLE 225 PAD 130 HOLE #4	PT1998	MP225H130	MP225H130
4	MP1 MP3-5	NON-PART	NON-PART, MECHANICAL PLATED HOLE, 300 PAD, 156 HOLE, #6	PT1045	MP300H156	MP300H156
6	J1-2 J4-6 J11	32-0204	CON, PLUG, XLR, R/A, PCA A SERIES	PT1218	P320204	XLRM-1
1	Q1	70-1035	XSTR, 2N44402, PNP, SIGNAL, TO-92, AMMO	PT1527	Q2N4402	TO92(EBC)-V
10	Q2-3 Q8-15	70-1058	XSTR, 2N3904, NPN, SOT-23, T&R	PT1203	Q2N3904-S	SOT-23
15	R7 R11 R13 R35 R37	50-1300	RES 0 5% 1/16W SM 0603 TA	PT2508	R0-B5-0603	0603
	R91 R200 R222 R277					
	R289 R335 R338-339					
	R341-342					
6	R8 R10 R12 R58-59	OMIT	OMIT RES 0 5% 1/16W SM 0603 TA (50-1300)	PT2509	R0-B5-06030	0603
	R295					
7	R157-158 R167-168	50-0317	RES 0 5% 1/4W CF RR TA	PT1008	R0-E5-R	RRA200
	R170-172					
1	R160	OMIT	OMIT RES 0 5% 1/4W CF RR TA (50-0317)	PT1596	R0-E5-RO	RRA200
2	R163-164	52-1340	RES 10.7K 1% 1/16W SM 0603 TA	PT2592	R10.7KB1-0603	0603
5	R39 R54 R183-184	52-1304	RES 100 1% 1/16W SM 0603 TA	PT2512	R100-B1-0603	0603
	R312					
4	R103-104 R253-254	52-1360	RES 100K 1% 1/16W SM 0603 TA	PT2613	R100KB1-0603	0603
43	R1-4 R6 R14 R16 R20	52-1338	RES 10K 1% 1/16W SM 0603 TA	PT2584	R10KB1-0603	0603
	R23 R28-29 R36 R49					
	R56 R112 R118 R124					
	R130 R136 R143 R159					
	R185-188 R192-193					

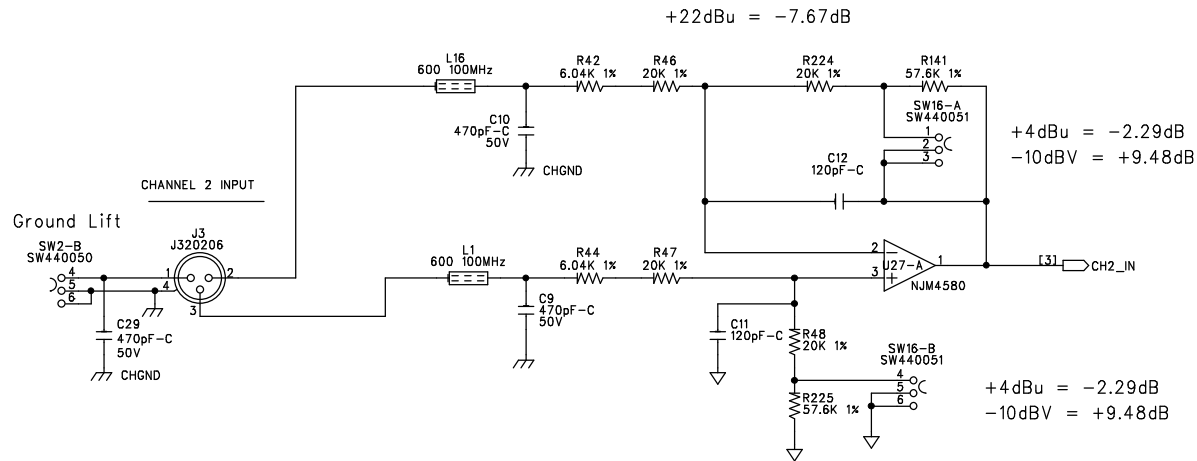
	R197 R199 R201 R209							
	R212-213 R218-219							
	R223 R236 R244 R266							
	R334 R340 R383-384							
12	R34 R57 R64-65	52-1342	RES 13.3K 1%	1/16W SM 0603 TA		PT2594 R13.3KB1-0603	0603	
	R72-73 R80-81							
	R88-89 R281-282							
1	R267	52-1362	RES 150K 1%	1/16W SM 0603 TA		PT2615 R150KB1-0603	0603	
1	R153	52-1344	RES 15K 1%	1/16W SM 0603 TA		PT2596 R15KB1-0603	0603	
4	R92 R149 R233 R235	52-1305	RES 169 1%	1/16W SM 0603 TA		PT2513 R169-B1-0603	0603	
11	R156 R173-174	52-1313	RES 1K 1%	1/16W SM 0603 TA		PT2550 R1KB1-0603	0603	
	R210-211 R269-274							
1	R336	52-1372	RES 1M 1%	1/16W SM 0603 TA		PT2625 R1MB1-0603	0603	
4	R74 R90 R226 R232	52-1317	RES 2.21K 1%	1/16W SM 0603 TA		PT2555 R2.21KB1-0603	0603	
10	R24 R66 R83 R109	52-1319	RES 2.67K 1%	1/16W SM 0603 TA		PT2557 R2.67KB1-0603	0603	
	R121 R133 R146 R190							
	R231 R247							
2	R175 R337	52-1300	RES 20 1%	1/16W SM 0603 TA		PT2507 R20-B1-0603	0603	
16	R38 R43 R176-182	52-1306	RES 200 1%	1/16W SM 0603 TA		PT2514 R200-B1-0603	0603	
	R189 R191 R194-196							
	R332-333							
8	R46-48 R94-96 R224	52-1346	RES 20K 1%	1/16W SM 0603 TA		PT2598 R20KB1-0603	0603	
	R228							
1	R255	52-1364	RES 221K 1%	1/16W SM 0603 TA		PT2617 R221KB1-0603	0603	
13	R40 R75 R82 R98-100	52-1316	RES 2K 1%	1/16W SM 0603 TA		PT2553 R2KB1-0603	0603	
	R154-155 R221							
	R229-230 R241 R262							
12	R5 R26 R50 R110	52-1322	RES 3.16K 1%	1/16W SM 0603 TA		PT2560 R3.16KB1-0603	0603	
	R113 R122 R125 R134							
	R137 R147 R237 R248							
6	R41 R111 R123 R135	52-1323	RES 3.24K 1%	1/16W SM 0603 TA		PT2561 R3.24KB1-0603	0603	
	R148 R249							
26	R25 R31-33 R60-63	52-1324	RES 3.32K 1%	1/16W SM 0603 TA		PT2562 R3.32KB1-0603	0603	
	R68-71 R76-79							
	R84-87 R105 R165							
	R321-322 R357-358							
50	R9 R67 R161-162	52-1307	RES 332 1%	1/16W SM 0603 TA		PT2543 R332-B1-0603	0603	
	R203-204 R234 R242							
	R251-252 R256-257							
	R259-260 R264-265							
	R279-280 R283-284							
	R287-288 R291-294							
	R297-300 R302-305							
	R307-310 R313-316							
	R318-320 R323							
	R325-328							
6	R101-102 R152 R261	50-1325	RES 33K 5%	1/16W SM 0603 TA		PT2589 R33KB5-0603	0603	
	R263 R275							
1	R169	52-1301	RES 39.2 1%	1/16W SM 0603 TA		PT2515 R39.2-B1-0603	0603	
1	R382	52-1355	RES 39.2K 1%	1/16W SM 0603 TA		PT2608 R39.2KB1-0603	0603	
13	R21-22 R107-108	52-1327	RES 4.53K 1%	1/16W SM 0603 TA		PT2565 R4.53KB1-0603	0603	
	R119-120 R131-132							
	R144-145 R245-246							
	R364							
1	R30	52-1368	RES 475K 1%	1/16W SM 0603 TA		PT2621 R475KB1-0603	0603	
2	R330-331	52-1356	RES 49.9K 1%	1/16W SM 0603 TA		PT2609 R49.9KB1-0603	0603	
17	R151 R198 R202 R250	52-1308	RES 499 1%	1/16W SM 0603 TA		PT2545 R499-B1-0603	0603	
	R258 R278 R285-286							
	R290 R296 R301 R306							
	R311 R317 R324 R329							
	R365							
6	R19 R55 R117 R129	52-1331	RES 5.76K 1%	1/16W SM 0603 TA		PT2576 R5.76KB1-0603	0603	
	R142 R243							

4	R97 R141 R225 R227	52-1357	RES 57.6K 1% 1/16W SM 0603 TA	PT2610 R57.6KB1-0603	0603
11	R15 R27 R42 R44-45 R51 R93 R114 R126 R138 R238	52-1332	RES 6.04K 1% 1/16W SM 0603 TA	PT2577 R6.04KB1-0603	0603
12	R17-18 R52-53 R115-116 R127-128 R139-140 R239-240	52-1303	RES 60.4 1% 1/16W SM 0603 TA	PT2511 R60.4-B1-0603	0603
1	R268	52-1358	RES 63.4K 1% 1/16W SM 0603 TA	PT2611 R63.4KB1-0603	0603
1	R220	52-1311	RES 681 1% 1/16W SM 0603 TA	PT2548 R681-B1-0603	0603
9	R205-208 R214-217 R276	52-1335	RES 7.5K 1% 1/16W SM 0603 TA	PT2581 R7.5KB1-0603	0603
2	R106 R166	52-1336	RES 8.06K 1% 1/16W SM 0603 TA	PT2582 R8.06KB1-0603	0603
1	P6	38-0001	RBN CBL 20 COND. 0.1", 4.25"	PT2772 RC20-380001	RC380001
2	SC14-15	34-0125	SWITCH CAP, BLACK, ROUND	PT1354 SC340125	SC340125-FPE
1	SC13	34-0198-C	SWITCH CAP LIGHT PIPE SNGL LED HORZ	PT2504 SC340198C	SC340198C
12	SC1-12	34-0199-A	SWITCH CAP dbx LIGHTED	PT2024 SC340199A	PCBNULL
1	S6	70-3026	SOCKET, PLCC 32, PLCC/R-32SKT	PT1419 SKT32-703026	PLCC/R-32SKT
1	SW2	44-0050	SWITCH DPDT MINI IN-OUT 6 PIN E-SWITCH	PT1256 SW440050	SW440050
2	SW1 SW16	44-0051	SWITCH, 4PDT, MINI IN-OUT, 12 PIN, E-SWITCH	PT1257 SW440051	SW440051
1	SW15	44-0119	ENCODER 20mm D SHAFT 30 POS W/SWITCH VERT MOUNT	PT1890 SW440119	SW440119
12	SW3-7 SW9-14 SW17	44-0185	SWITCH, SPST, LITE TOUCH, MINI, W/ PROJECTED PLUNGER SMT	PT1962 SW440185	SW44PTACT-3
7	TP1-2 TP4 TP8-10 TP12	NON-PART	NON-PART, TEST POINT, ENGINEERING PROBE POINT	PT1653 TESTPOINT	TESTPOINTSM
1	U28	70-4014	V-REG, 7805, +5V, 1.5 AMP, TO-220	PT1591 U7805	TO220(IGO)-V
1	U10	70-4123	V-REG, 7815, +15V, 1 AMP, TO-220	PT1592 U7815	TO220(IGO)-V
1	U12	70-4124	V-REG, 7915, -15V, 1 AMP, TO-220	PT1594 U7915	TO220(GIO)-V
1	U7	72-0046	IC 25AA640 64K SERIAL EEPROM TA	PT2774 U25AA260	SO8
1	U5	72-6318	IC 32K x 8 SRAM 15ns SOJ28	PT2294 U32K8S15-J	SOJ28-300
6	U2 U33 U36 U38 U42 U51	72-1439	IC, 5532MD, DUAL BIPOLAR OPAMP, SO8-200	PT1306 U5532MD-S	SO8-200
2	U25 U48	72-5426	IC, 74AC04, HEX INVERTER, SO14, T&R	PT1325 U74AC04-S	SO14
1	U21	72-5437	IC 74VHC273 FLIP-FLOP OCTAL-D SO20W T&R	PT1909 U74VHC273-S	SO20W
1	U17	72-0045	IC 74VHC373 OCTAL LATCH SO20W	PT2771 U74VHC373-S	SO20W
1	U44	72-0044	IC 74VHC4040 12 BIT RIPPLE COUNTER SO16	PT2759 U74VHC4040-S	SO16
1	U20	72-6316	IC 78L32P-24 8 BIT MICROCONTROLLER 3.3V	PT2316 U78L32P-24	PLCC-44
1	U11	72-1485	IC AK4356 192kHz 24 BIT 6 CHANNEL DAC	PT2717 UAK4356-Q	QFP44-10X10
1	U26	72-1266	IC, AK5383, 96 kHz, DUAL 24BIT ADC, SO28W	PT1557 UAK5383-S	SO28W
1	U1	72-6305	IC DSP56367 DSP 150MHZ QFP144-20X20	PT2452 UDSP56367-Q	QFP144-20X20
1	U24	70-4021	V-REG, LD1117V33, +3.3V, 0.8 AMP, TO-220, BULK	PT1795 ULD1117V33	TO220(GOI)-V
1	U14	70-0063	V-REG LM2575S-ADJ SWITCHING REG 1A TO-263(5)	PT2739 ULM2575S-ADJ	TO-263(5)
1	U16	70-4007	V-REG, LM317T, ADJ REG, 1.5 AMP, TO-220	PT1785 ULM317T	TO220(AOI)-V
2	U4 U18	72-5434	IC NC7SZ125 TINYLOGIC BUFFER SOT23-5 TA	PT1881 UNC7SZ125-S	SOT23-5
1	U3	72-6308	IC NCP304 VOLTAGE DETECTOR SC-82AB	PT2393 UNCP304	SC-82AB
11	U8-9 U15 U19 U22-23 U27 U60-62 U70	72-1480	IC NJM4580 DUAL OP-AMP SO8	PT1374 UNJM4580-S	SO8
1	U13	72-0042-00V1	IC CPLD ispLSI2064VE dbx Driverack PA V1	PT2785 UP720042	QFP100-14X14
1	U6	72-5539-03V1	IC AM29LV040B 512K x 8 FLASH MEMORY dbx Driverack PA V1	PT2292 UP725539	PLCC/R-32
1	Y3	76-0202	XTAL 24.000MHZ METAL CAN SURFACE MOUNT T&R	PT1928 Y24.000M760202	XTAL2-V
1	X7	76-0006	XTAL 24.576MHZ SMT CX16F/CS49G PKG	PT2713 Y24.576M760006	YCX16F/CX49G

SC15 SC14
SC340125 SC340125

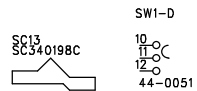
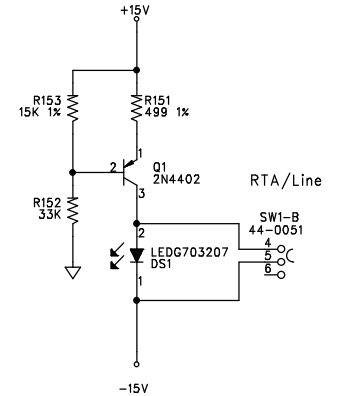
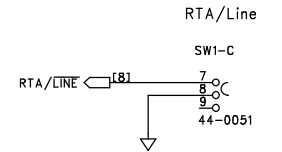
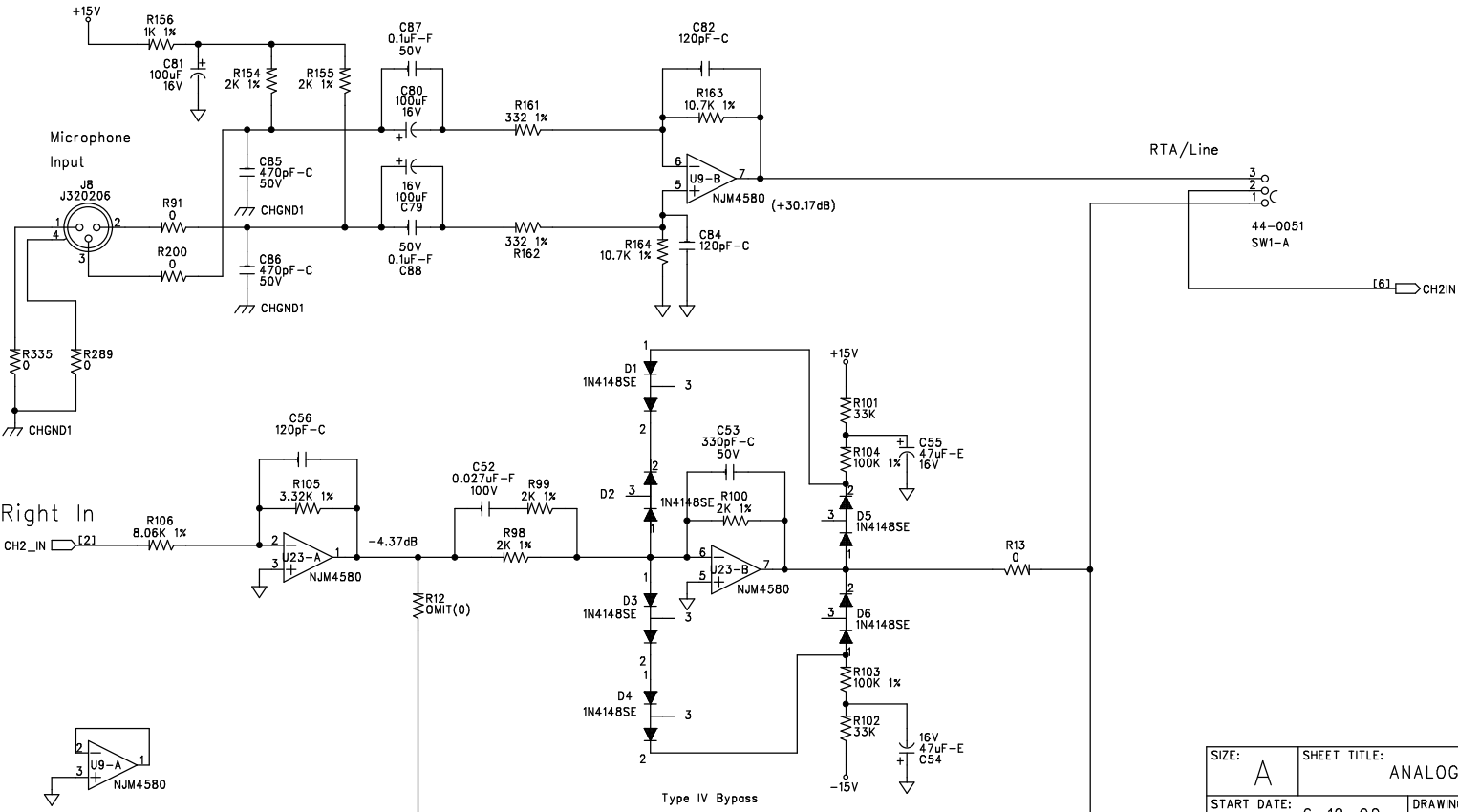
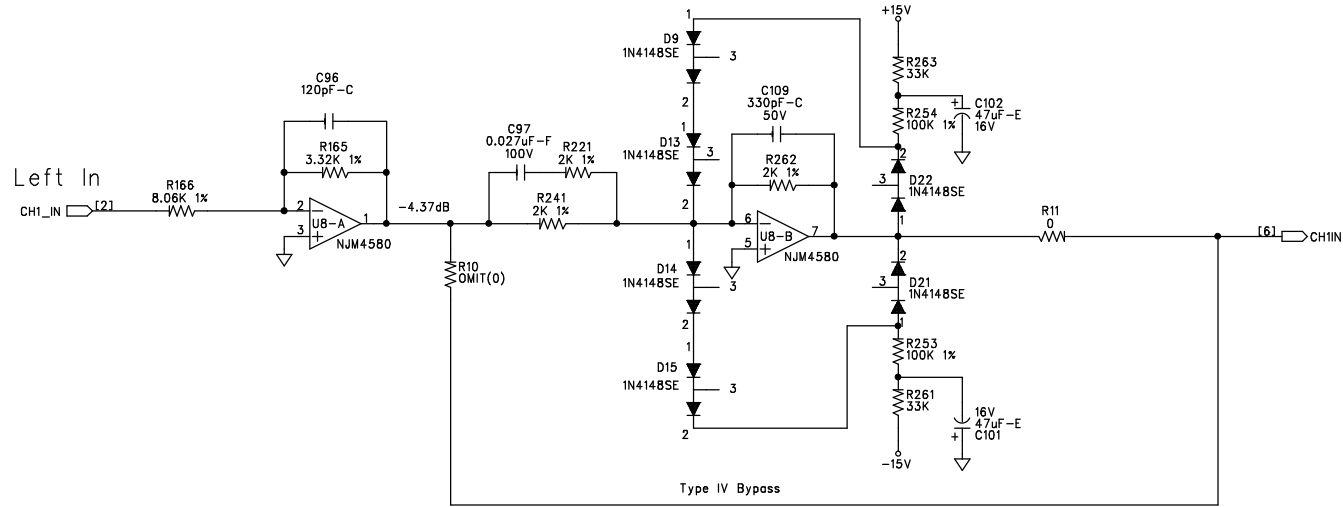


Left In

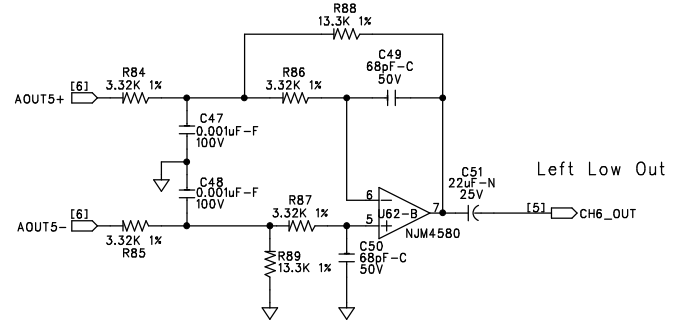
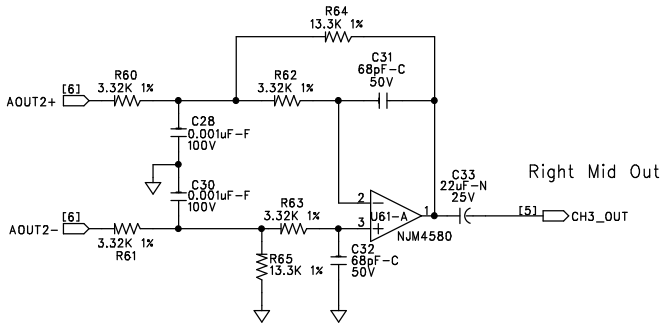
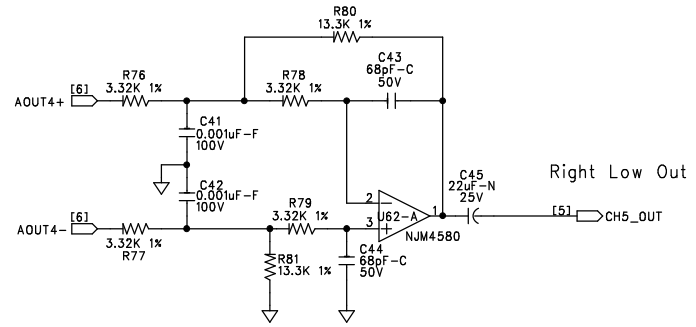
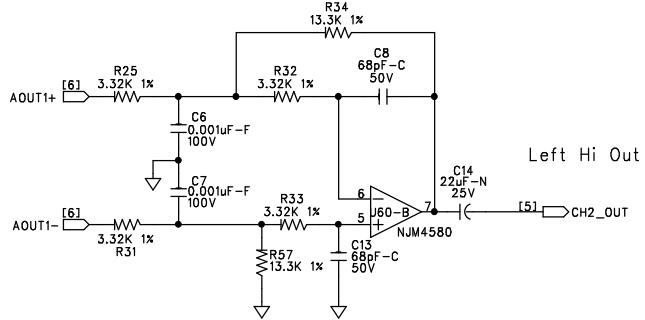
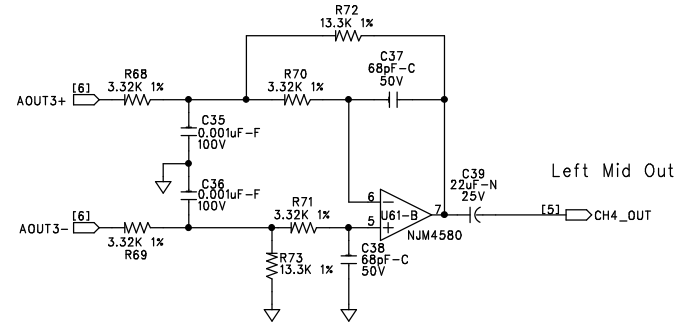
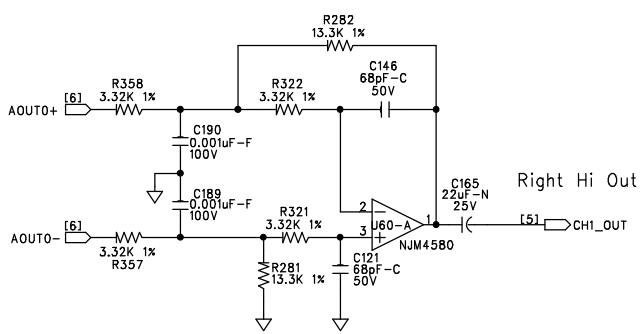


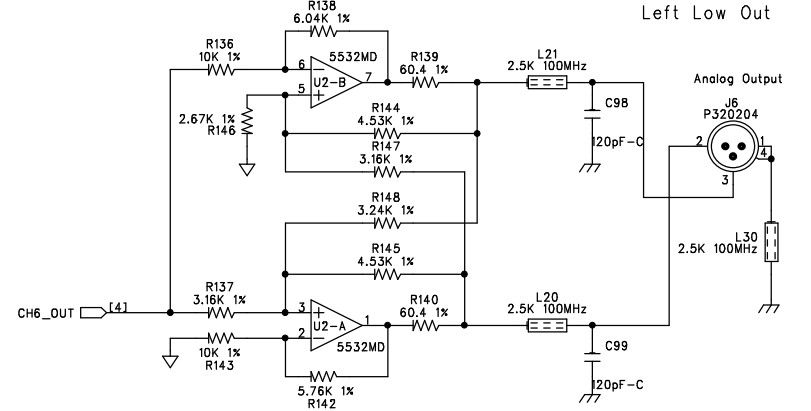
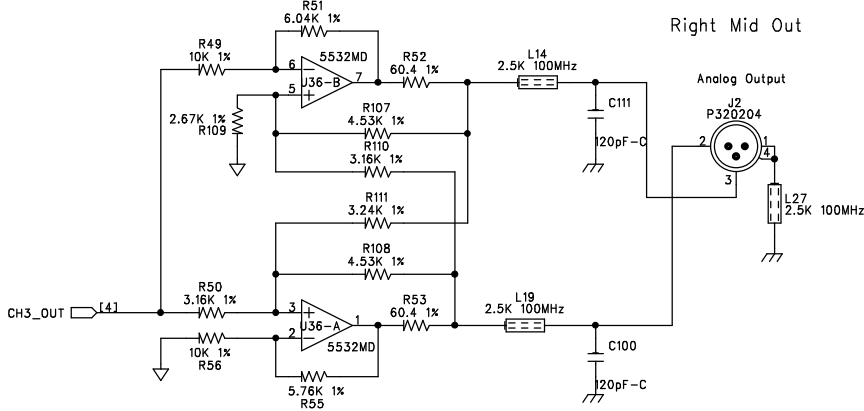
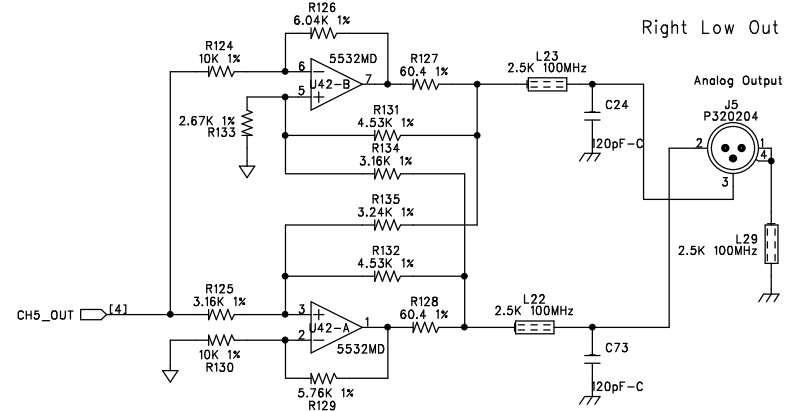
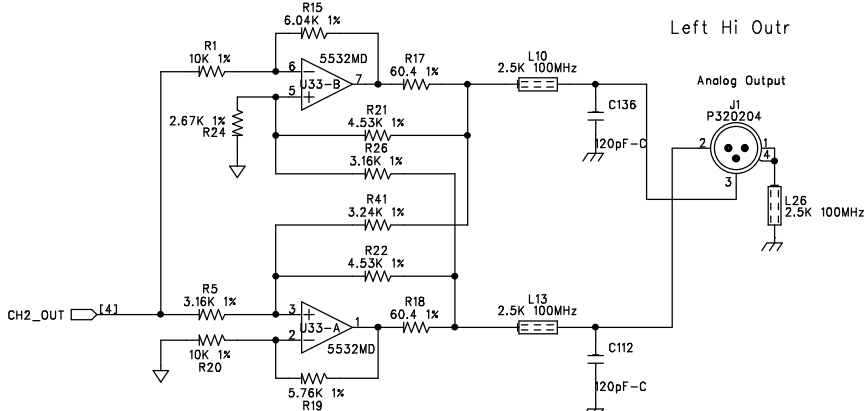
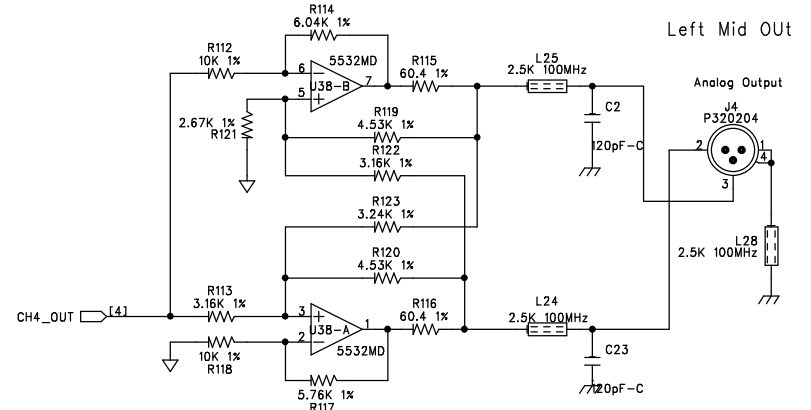
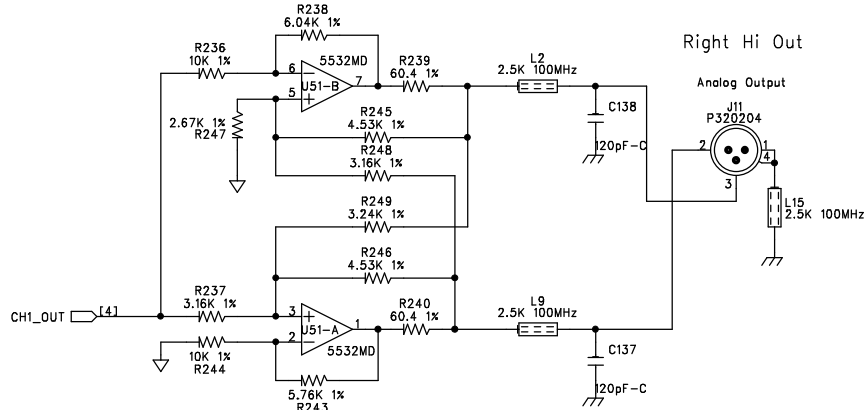
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START DATE: 6-12-02	DRAWING NO: 05-1790	SHEET: 2 OF 15

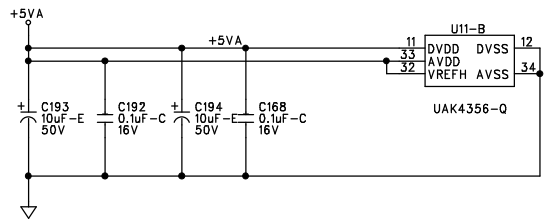
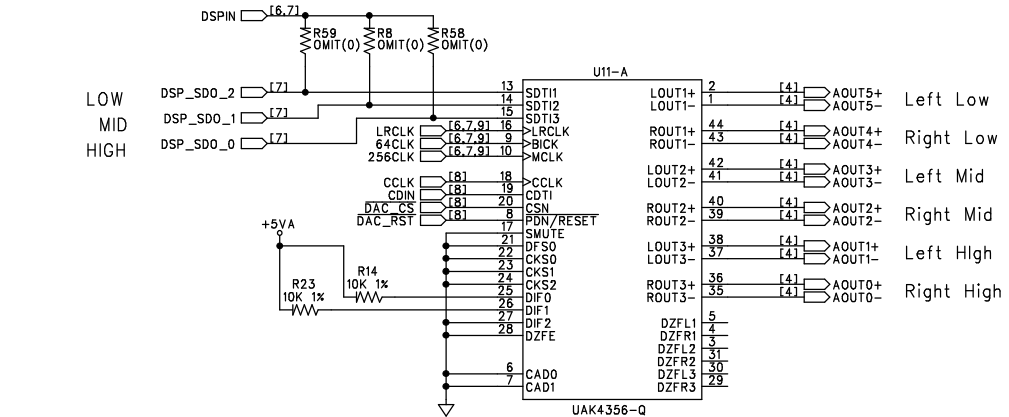
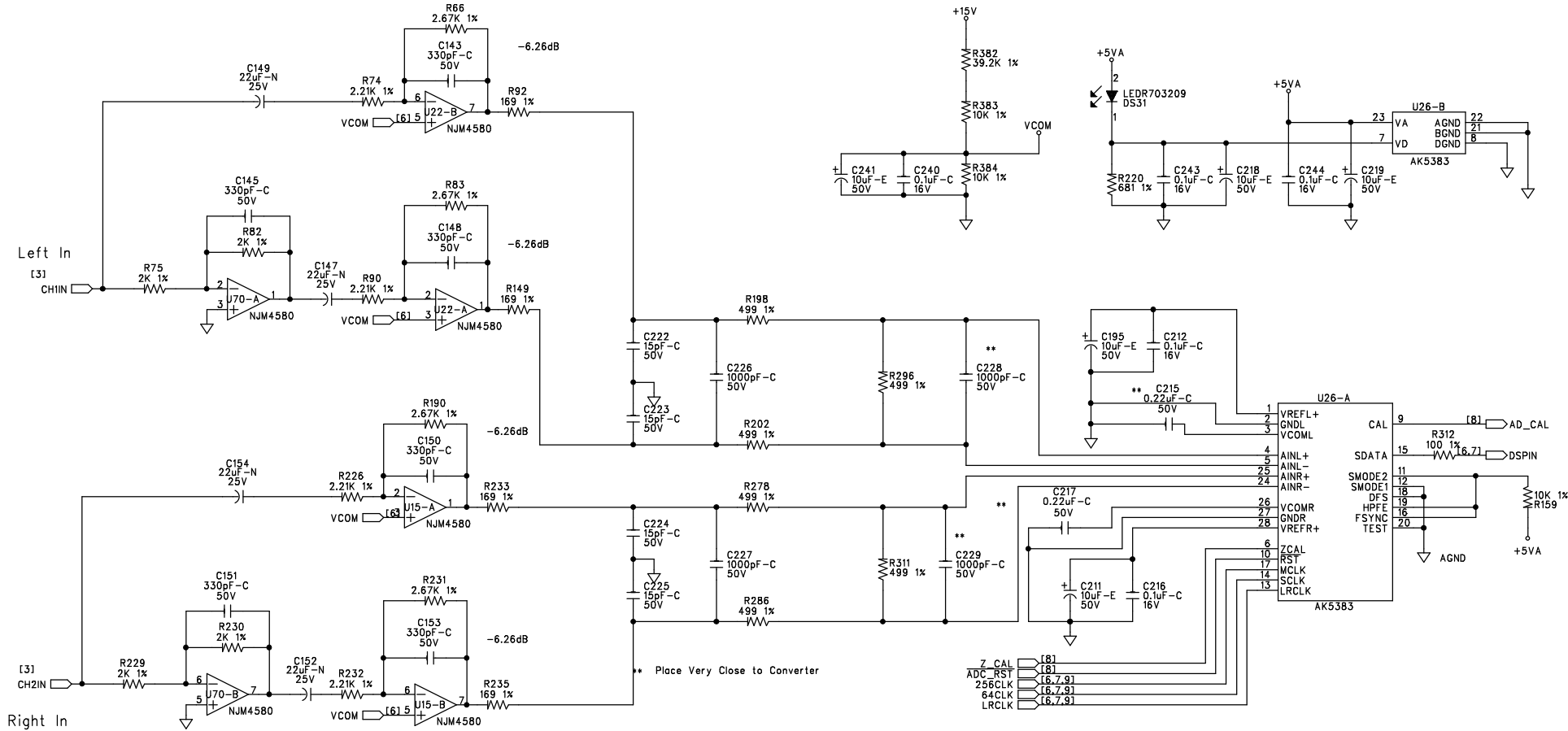


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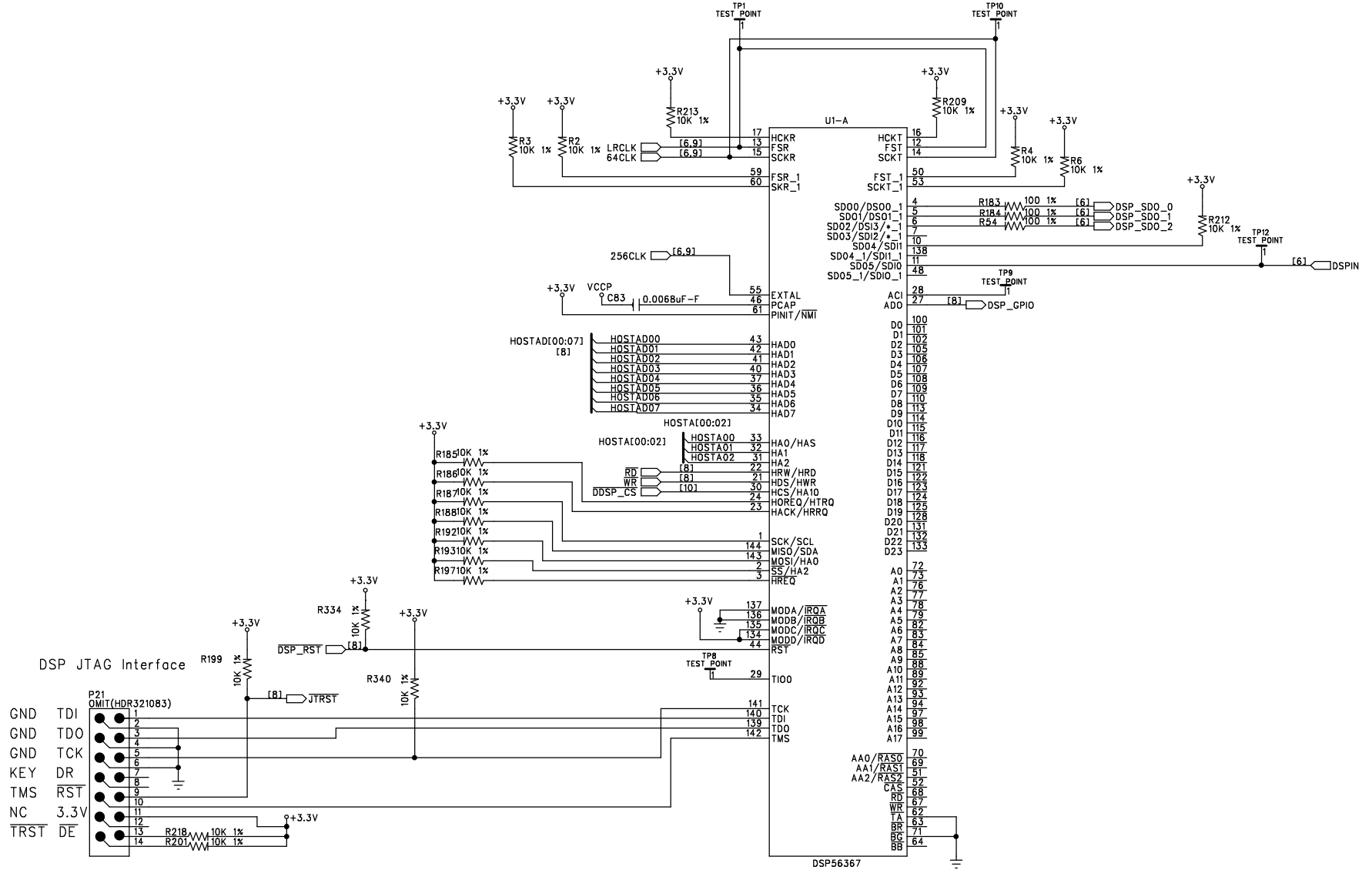


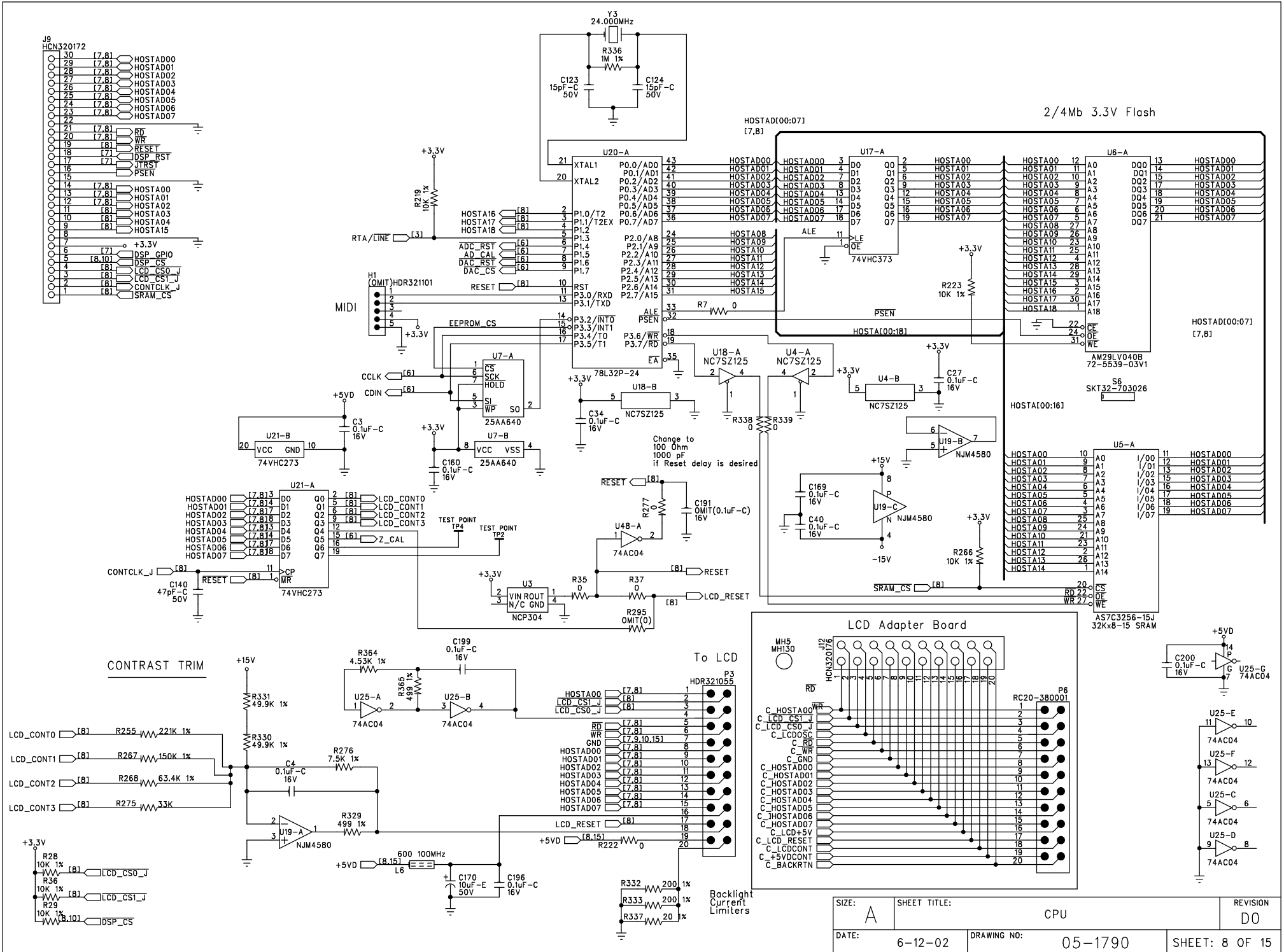


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DATE: 6-12-02	DRAWING NO: 05-1790	SHEET: 5 OF 15



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DATE: 6-12-02	DRAWING NO: 05-1790	SHEET: 6 OF 15

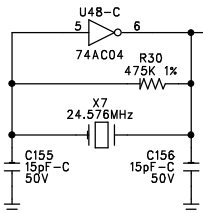




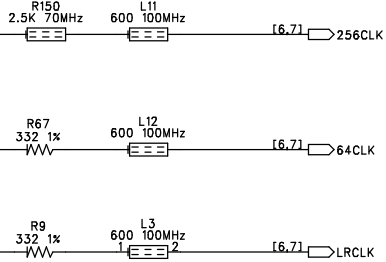
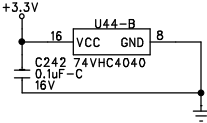
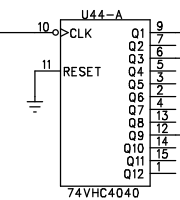
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DATE: 6-12-02	DRAWING NO: 05-1790	SHEET: 8 OF 15

Divider/Clock Tree

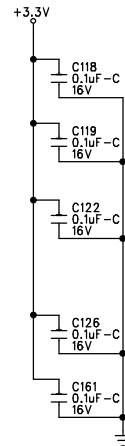
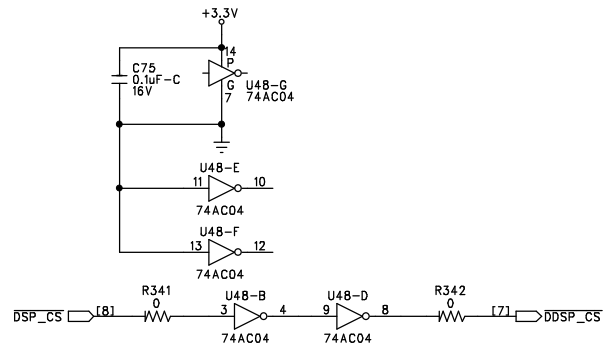
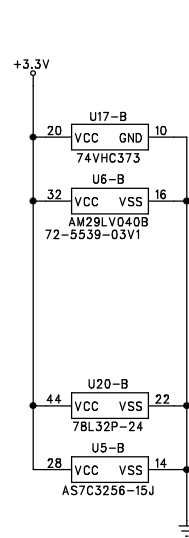
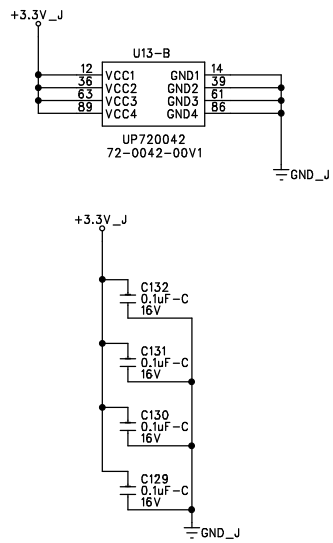
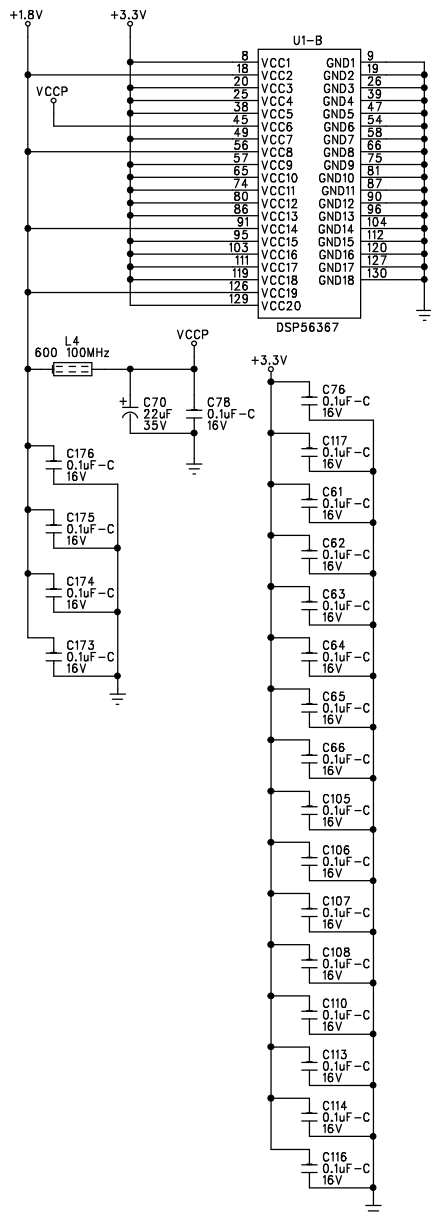
x512fs Crystal Oscillator
24.576 MHz



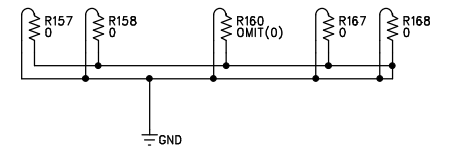
Change to 74VHC4040



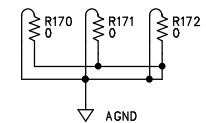
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DATE: 6-12-02	DRAWING NO: 05-1790	SHEET: 9 OF 15



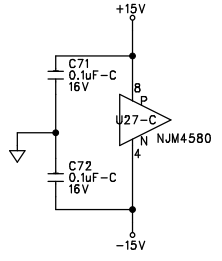
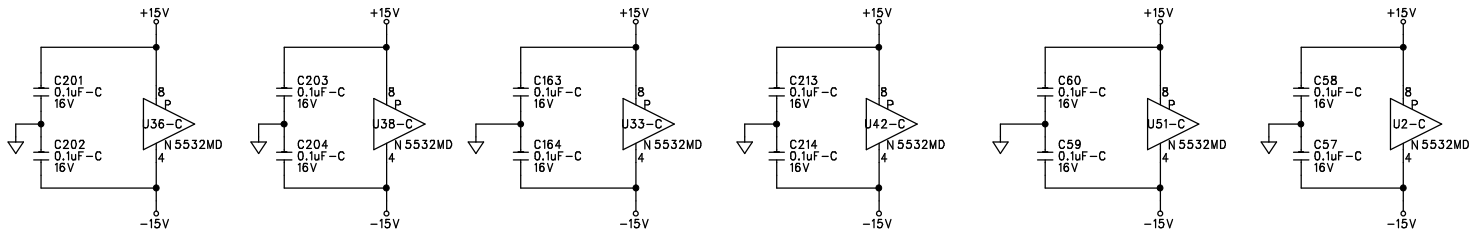
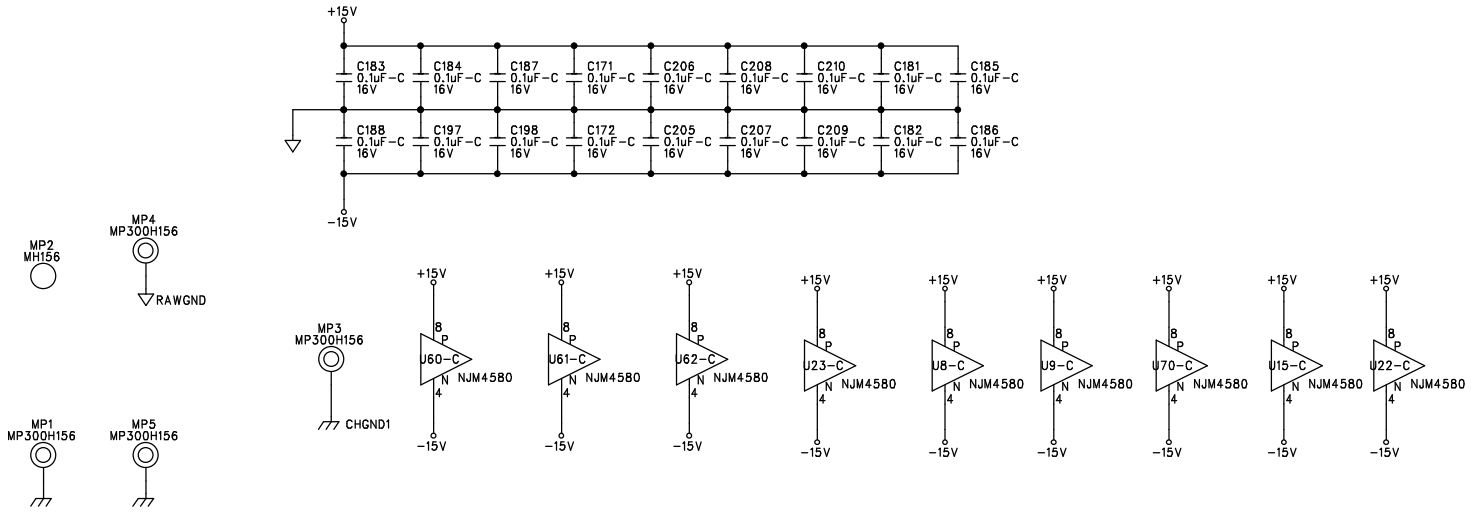
Digital Ground Test Points



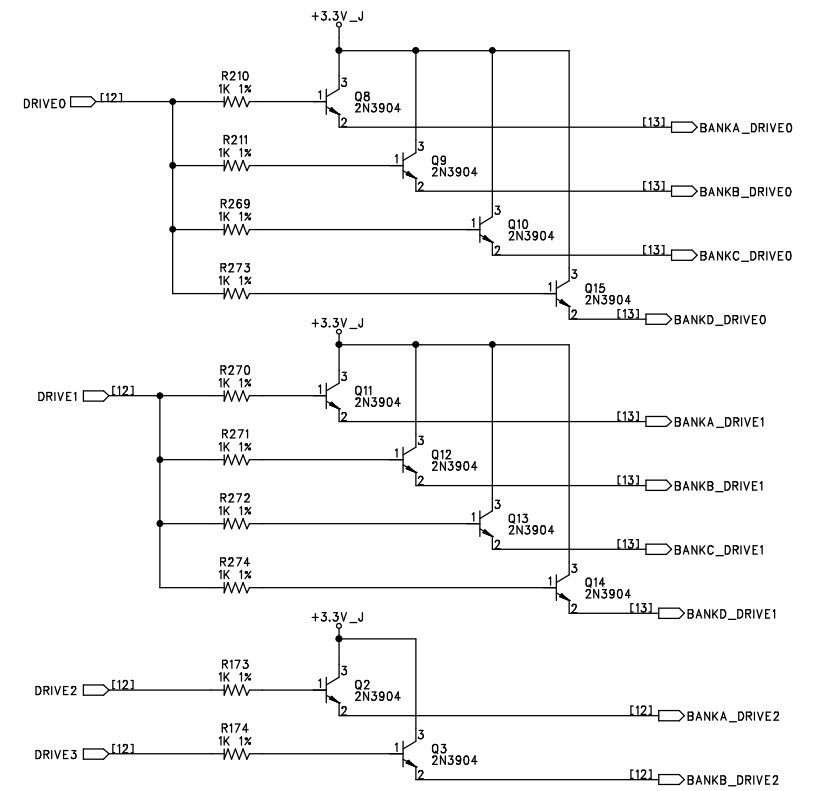
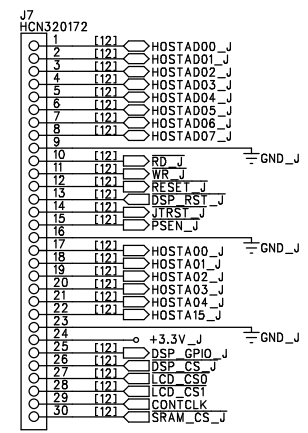
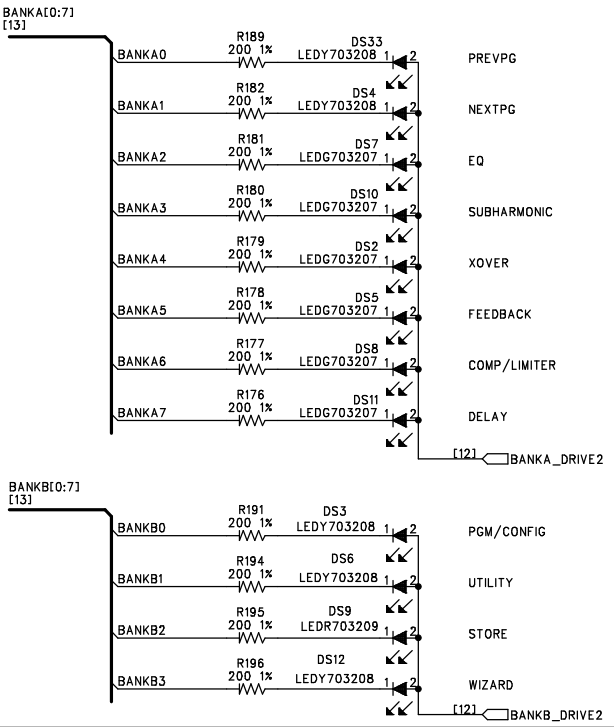
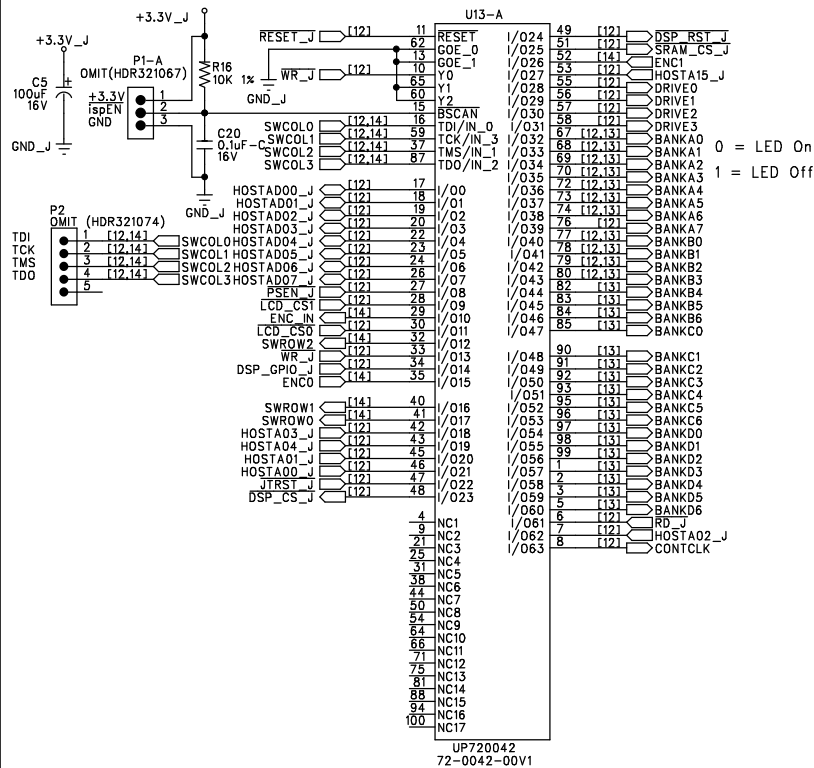
Analog Ground Test Points



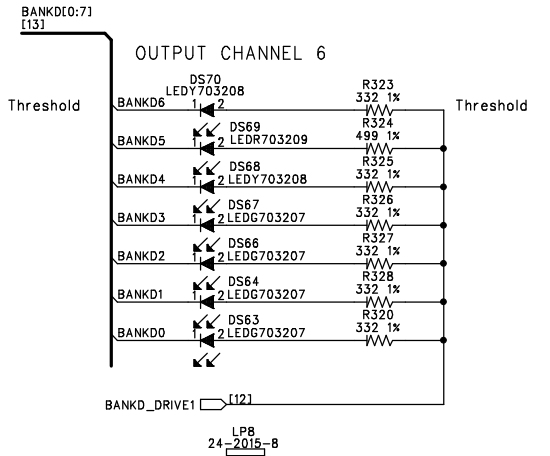
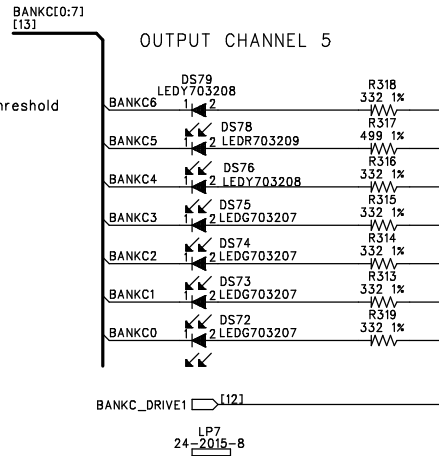
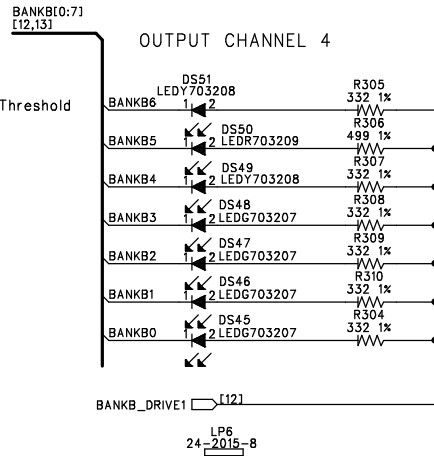
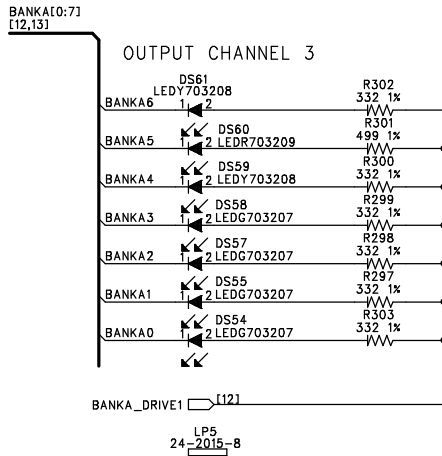
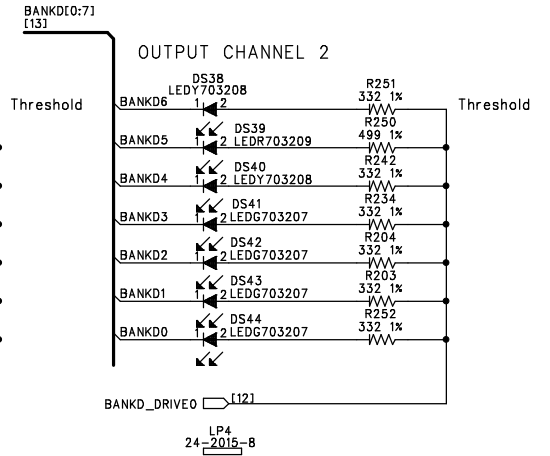
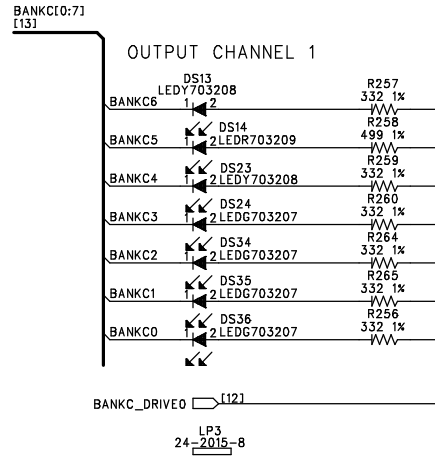
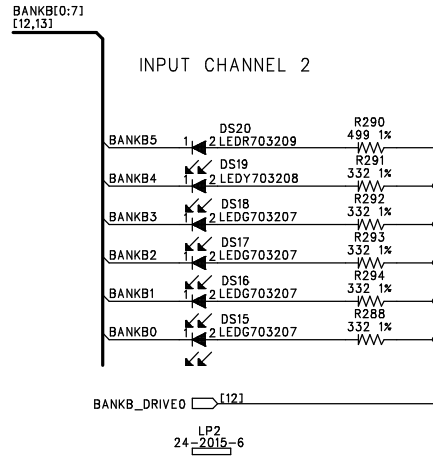
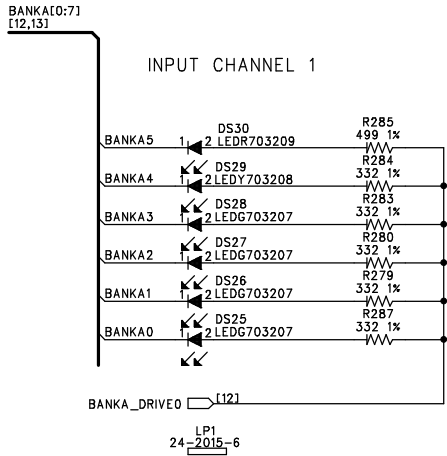
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DATE: 6-12-02	DRAWING NO: 05-1790	SHEET: 10 OF 15

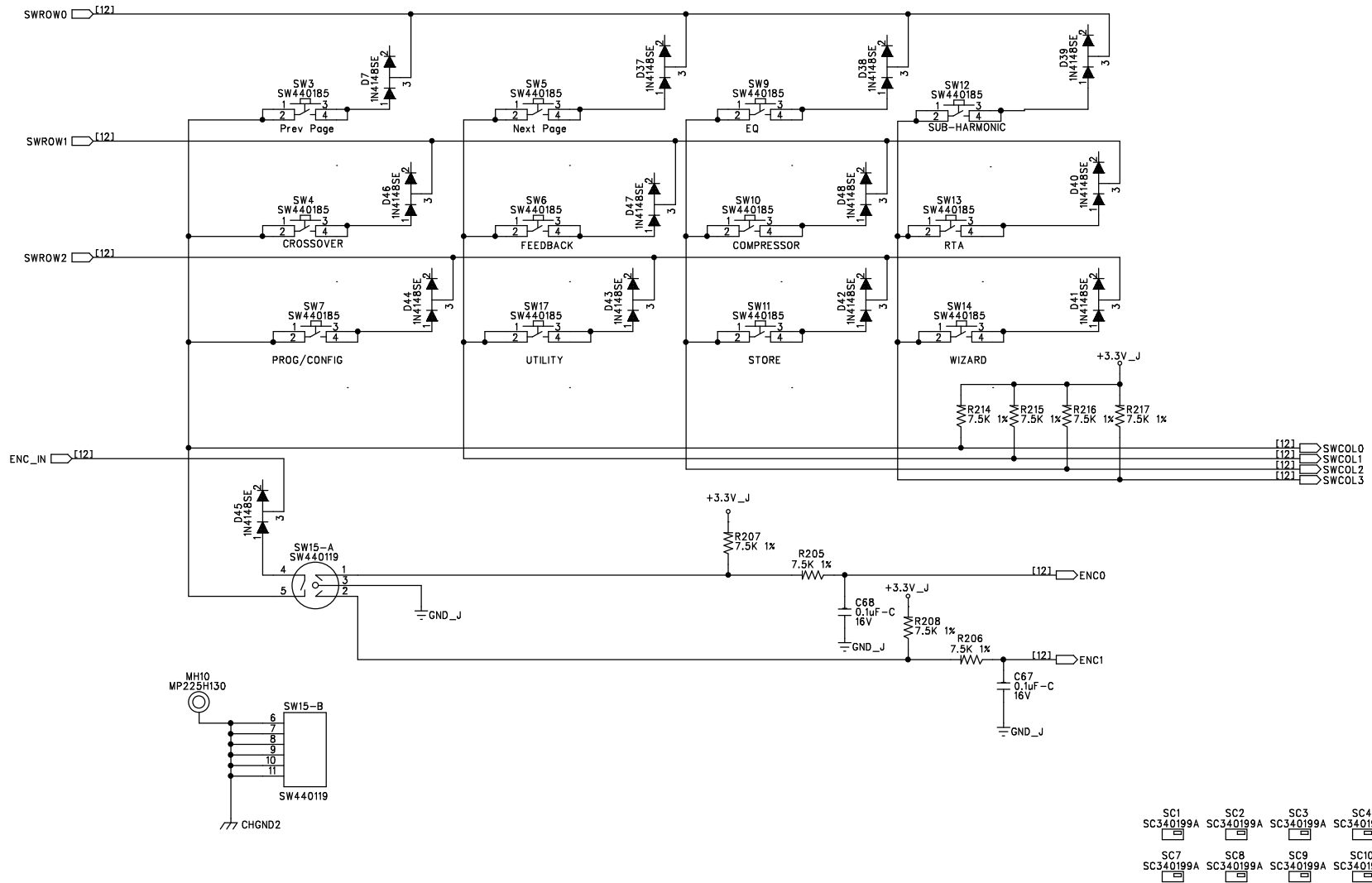


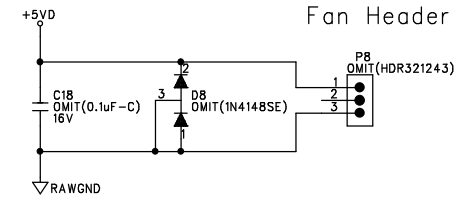
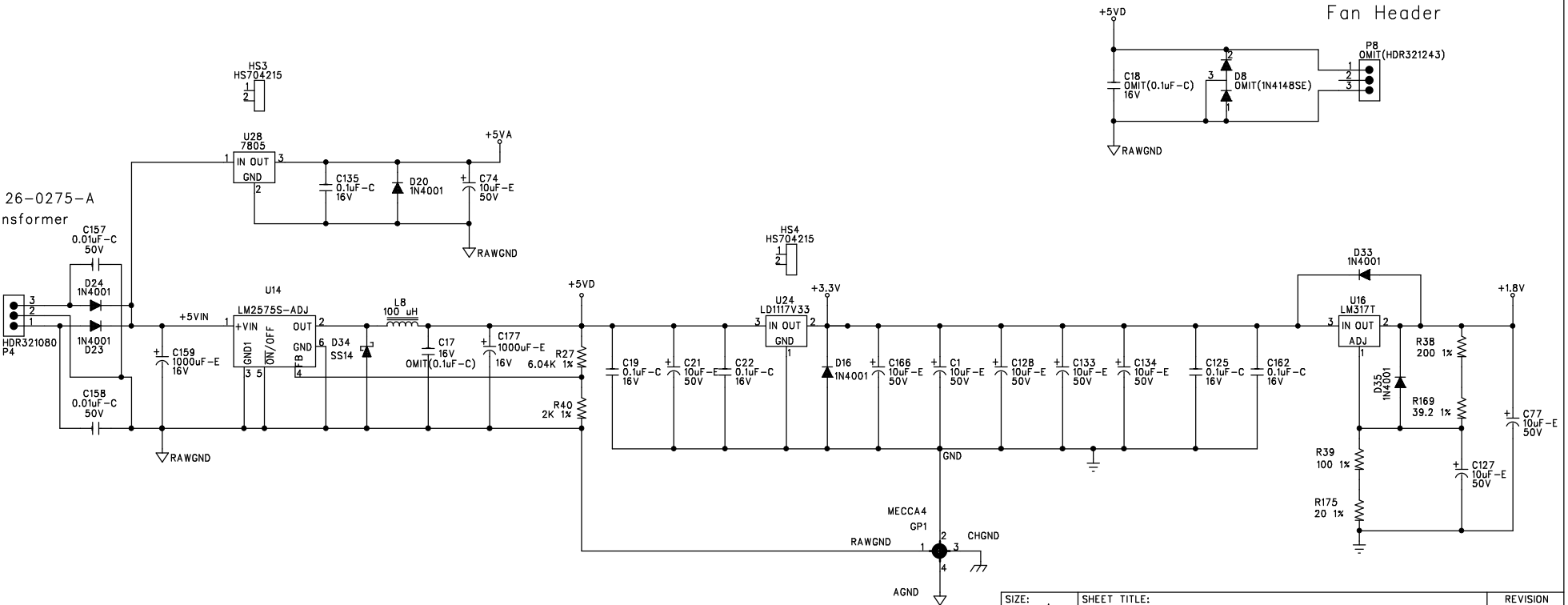
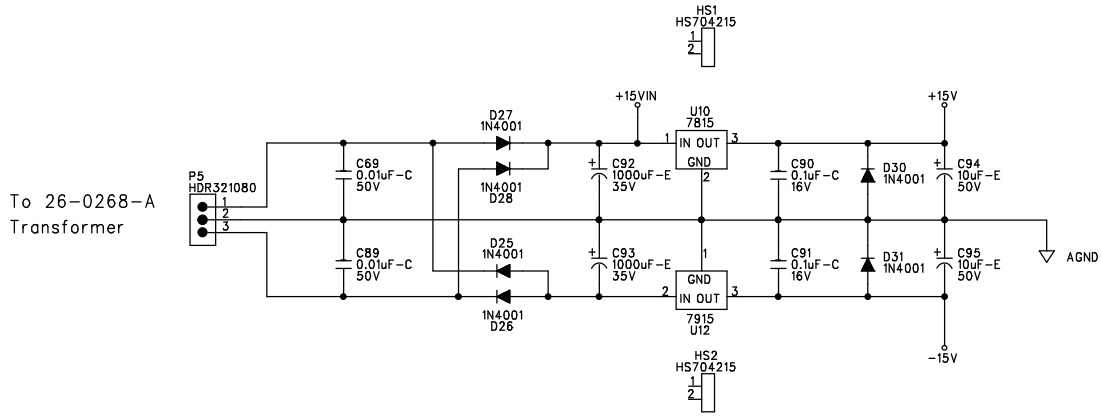
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START DATE: 6-12-02	DRAWING NO: 05-1790	SHEET: 11 OF 15



SIZE: A	SHEET TITLE: FRONT PANEL - LED/LCD CONTROL	REVISION: D0
DATE: 6-12-02	DRAWING NO: 05-1790	SHEET: 12 OF 15







SIZE: A	SHEET TITLE: POWER SUPPLY	REVISION: D0
DATE: 6-12-02	DRAWING NO: 05-1790	SHEET: 15 OF 15

Bill Of Materials for 051790D0.sch on Fri Jun 14 08:37:43 2002

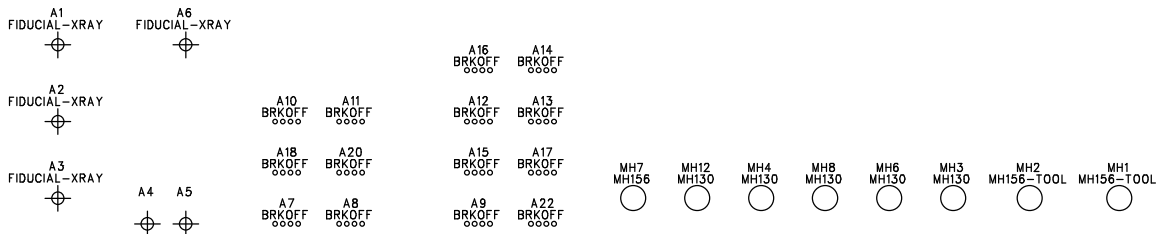
Qty	Reference	HMG#	Description	Audit	Schematic Part	PCB Decal
1	PCB1	80-1790	PCB 80-1790 dbx DRIVERACK PA	PT2044	80XXXXXX	BARCODE
14	A7-18 A20 A22	NON-PART	NON-PART, PCB ONLY, BREAKOFF PART	PT1481	BRKOFF	BRKOFF
12	C6-7 C28 C30 C35-36 C41-42 C47-48 C189-190	56-0000	CAP 0.001uF FILM PTR 100V 5% AF TA	PT1629	C0.001UF100JR	RFCC200
1	C83	56-0005	CAP 0.0068uF FILM PTR 100V 5% RF TA	PT1307	C0.0068UF100JR	RFDC200
4	C69 C89 C157-158	62-1311	CAP 0.01uF CER 50V 20% Y5V 0603 TA	PT2665	C0.01UC50M0603	0603
2	C52 C97	56-0033	CAP 0.027uF FILM PTR 100V 5% RF TA	PT1282	C0.027UF100JR	RFEF200
91	C3-4 C19-20 C22 C27 C34 C40 C57-68 C71-72 C75-76 C78 C90-91 C105-108 C110 C113-114 C116-119 C122 C125-126 C129-132 C135 C160-164 C168-169 C171-176 C181-188 C192 C196-210 C212-214 C216 C240 C242-244	62-1310	CAP 0.1uF CER 16V 20% Y5V 0603 TA	PT2696	C0.1UC16M0603	0603
3	C17-18 C191	OMIT	OMIT CAP 0.1uF CER 16V 20% Y5V 0603 TA (62-1310)	PT2711	C0.1UC16M06030	0603
2	C87-88	56-0012	CAP 0.1uF FILM MTPPT 50V 5% RF TA	PT1200	C0.1UF50JR	RFEC200
2	C215 C217	62-3209	CAP 0.22uF CER 50V 10% X7R 1206 TA	PT2271	C0.22UC50K1206	1206
4	C226-229	62-1308	CAP 1000pF CER 50V 20% Y5V 0603 TA	PT2651	C1000PC50M0603	0603
2	C159 C177	60-0064	CAP 1000uF EL 16V 20% GP 10x17R 5LL BK	PT1334	C1000UE16MR	REM200P
2	C92-93	60-1073	CAP 1000uF EL 35V 20% HT 13x25R 5LL BK	PT1971	C1000UE35MR1	REQ200P
4	C5 C79-81	60-0201	CAP 100uF EL 16V 20% GP 6x8R 5LS TA	PT1378	C100UE16MR	REG200P
19	C1 C21 C74 C77 C94-95 C127-128 C133-134 C166 C170 C193-195 C211 C218-219 C241	60-1074	CAP 10uF EL 50V 20% HT 5x11R 5LS TA	PT1972	C10UE50MR1	REE200P
20	C2 C11-12 C23-26 C56 C73 C82 C84 C96 C98-100 C111-112 C136-138	62-1304	CAP 120pF CER 50V 5% NPO 0603 TA	PT2655	C120PC50J0603	0603
8	C123-124 C155-156 C222-225	62-1300	CAP 15pF CER 50V 5% NPO 0603 TA	PT2659	C15PC50J0603	0603
1	C70	60-0010	CAP 22uF EL 35V 20% GP 5x11R 5LS TA	PT2110	C22UE35MR	REE200P
10	C14 C33 C39 C45 C51 C147 C149 C152 C154 C165	60-0402	CAP 22uF ELNP 25V 20% GP 6x11R 5LS TA	PT1084	C22UN25MR	REG200
8	C53 C109 C143 C145 C148 C150-151 C153	62-1306	CAP 330pF CER 50V 10% X7R 0603 TA	PT2653	C330PC50K0603	0603
8	C9-10 C15-16 C29 C85-86 C115	62-1307	CAP 470pF CER 50V 10% X7R 0603 TA	PT2652	C470PC50K0603	0603
1	C140	62-1302	CAP 47pF CER 50V 5% NPO 0603 TA	PT2657	C47PC50J0603	0603
4	C54-55 C101-102	60-0054-01	CAP 47uF EL 16V 20% GP 5x11R 5LS TA	PT1108	C47UE16MR	REE200P
12	C8 C13 C31-32 C37-38 C43-44 C49-50 C121 C146	62-1303	CAP 68pF CER 50V 5% NPO 0603 TA	PT2656	C68PC50J0603	0603
12	D16 D20 D23-28 D30-31 D33 D35	70-0000	DIO 1N4001 50V 1 AMP AMMO TA	PT1003	D1N4001-R	RDB200
25	D1-7 D9 D13-15 D21-22 D37-48	70-0113	DIO MMBD4148SE DUAL 75V 600mA SOT-23 TA	PT1326	D1N4148SE-S	SOT-23
1	D8	OMIT	OMIT DIO MMBD4148SE DUAL 75V 600mA SOT-23 TA (70-0113)	PT1327	D1N4148SE-S-O	SOT-23
1	D34	70-0147	DIO SCHOTTKY 1A SS14 DO-214AC/SMA	PT1877	DSS14S	DO-214AC/SMA
2	A4-5	NON-PART	NON-PART, FIDUCIAL, TARGET FOR AUTO INSERTION	PT1271	FIDUCIAL	FIDUCIAL
4	A1-3 A6	NON-PART	NON-PART FIDUCIAL TARGET FOR AI AND XRAY	PT2796	FIDUCIAL-XRAY	FIDUCIAL-XRAY

2	J7 J9	32-0172	HCN CONN 30 PIN .5 MM CNTS 1X30 FML RA	PT2724 HCN320172	HC320172
1	J12	32-0176	HCN CONN 20 PIN FEM VRT MNT SMT	PT2773 HCN320176	HC102V079050FS
1	P3	32-1055	HDR, 20 PIN, 0.1" SPC, 2 X 10, VERT, MALE	PT1340 HDR321055	HC102
2	P4-5	32-1080	HDR, 3 PIN, 0.1" SPC, 1 X 3, LCK, R/A, MALE	PT1073 HDR321080	HC3L
1	P1-A	OMIT	OMIT HDR 3 PIN 0.1" SPC 1 X 3 VERT MALE CUT FROM 14 PIN (32-1067)	PT2703 HDR321067-O	HC31
1	P2	OMIT	OMIT HDR 5 PIN 0.1" SPC 1 X 5 VERT MALE	PT2788 HDR321074-O	HC51M
1	P21	OMIT	OMIT HDR 14 PIN 0.1" SPC 2 X 7 VERT MALE (32-1083)	PT2127 HDR321083-O	HC72
1	H1	OMIT	OMIT, HDR, 5 PN, 0.079" SP, 1 X 5, 0.020" PS LK SD PO VT MA (32-1101)	PT1825 HDR321101-O	HC579LSFPM
1	P8	OMIT	OMIT HDR 3 PIN .098 SPC 3X1 SHROUDED VERTICAL MT. (32-1243)	PT2795 HDR321243-O	HC31V98SP
4	HS1-4	70-4215	HEATSINK, TO-220, VERT	PT1339 HS704215	HS704215
3	J3 J8 J10	32-0206	CON, JACK, XLR, R/A, PCA A SERIES	PT1219 J320206	XLRF-1
1	LBL1	30-0121	LABEL BARCODE AUTOINSERTABLE RAW	PT2790 LABEL300121	LABEL300121
39	DS1-2 DS5 DS7-8 DS10-11 DS15-18 DS24-28 DS34-36 DS41-48 DS54-55 DS57-58 DS63-64 DS66-67 DS72-75	70-3207	LED GREEN D1206 T&R	PT1902 LEDG703207	D1206
10	DS9 DS14 DS20 DS30-31 DS39 DS50 DS60 DS69 DS78	70-3209	LED RED D1206 T&R	PT1901 LEDR703209	D1206
19	DS3-4 DS6 DS12-13 DS19 DS23 DS29 DS33 DS38 DS40 DS49 DS51 DS59 DS61 DS68 DS70 DS76 DS79	70-3208	LED YELLOW D1206 T&R	PT1900 LEDY703208	D1206
9	L1 L3-4 L6 L11-12 L16-18	26-0000	IND FBD 600 OHM @ 100Hz 200mA 0603 TA	PT2728 LFB260000	0603
18	L2 L9-10 L13-15 L19-30	26-0001	IND FBD 2.5K OHM @ 100Hz, 50mA 0603 TA	PT2729 LFB260001	0603
1	R150	26-0217	IND FBD 2.5K OHM @ 70MHz 0805 TA	PT1261 LFB260217	0805
1	L8	26-0002	IND PWR 100uH 3A	PT2754 LI260002	UP3B
2	LP1-2	NON-PART	NON-PART 6 POS NOT INSTALLED UNTIL MECHANICAL ASSY(LIGHT PIPE)	PT1967 LP242015-6	LP242015-6
6	LP3-8	NON-PART	NON-PART 8 POS NOT INSTALLED UNTIL MECHANICAL ASSY(LIGHT PIPE)	PT1968 LP242015-8	LP242015-8
1	GP1	NON-PART	NON-PART MECCA GND/PWR TIE POINT 4 POS	PT2482 MECCA4	MECCA4
6	MH3-6 MH8 MH12	NON-PART	NON-PART, MOUNTING HOLE, 0.130" NON-PLATED, #4	PT1242 MH130	MH130
2	MH7 MP2	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	PT2794 MH156-TOOL	MH156-TOOL
1	MH10	NON-PART	NON-PART MECHANICAL PLATED HOLE 225 PAD 130 HOLE #4	PT1998 MP225H130	MP225H130
4	MP1 MP3-5	NON-PART	NON-PART, MECHANICAL PLATED HOLE, 300 PAD, 156 HOLE, #6	PT1045 MP300H156	MP300H156
6	J1-2 J4-6 J11	32-0204	CON, PLUG, XLR, R/A, PCA A SERIES	PT1218 P320204	XLRM-1
1	Q1	70-1035	XSTR, 2N44402, PNP, SIGNAL, TO-92, AMMO	PT1527 Q2N4402	TO92(EBC)-V
10	Q2-3 Q8-15	70-1058	XSTR, 2N3904, NPN, SOT-23, T&R	PT1203 Q2N3904-S	SOT-23
15	R7 R11 R13 R35 R37 R91 R200 R222 R277 R289 R335 R338-339 R341-342	50-1300	RES 0 5% 1/16W SM 0603 TA	PT2508 R0-B5-0603	0603
6	R8 R10 R12 R58-59 R295	OMIT	OMIT RES 0 5% 1/16W SM 0603 TA (50-1300)	PT2509 R0-B5-0603O	0603
7	R157-158 R167-168 R170-172	50-0317	RES 0 5% 1/4W CF RR TA	PT1008 R0-E5-R	RRA200
1	R160	OMIT	OMIT RES 0 5% 1/4W CF RR TA (50-0317)	PT1596 R0-E5-RO	RRA200
2	R163-164	52-1340	RES 10.7K 1% 1/16W SM 0603 TA	PT2592 R10.7KB1-0603	0603
5	R39 R54 R183-184 R312	52-1304	RES 100 1% 1/16W SM 0603 TA	PT2512 R100-B1-0603	0603
4	R103-104 R253-254	52-1360	RES 100K 1% 1/16W SM 0603 TA	PT2613 R100KB1-0603	0603
43	R1-4 R6 R14 R16 R20 R23 R28-29 R36 R49 R56 R112 R118 R124 R130 R136 R143 R159 R185-188 R192-193 R197 R199 R201 R209	52-1338	RES 10K 1% 1/16W SM 0603 TA	PT2584 R10KB1-0603	0603

	R212-213 R218-219 R223 R236 R244 R266 R334 R340 R383-384							
12	R34 R57 R64-65 R72-73 R80-81 R88-89 R281-282	52-1342	RES 13.3K 1%	1/16W SM 0603 TA		PT2594 R13.3KB1-0603	0603	
1	R267	52-1362	RES 150K 1%	1/16W SM 0603 TA		PT2615 R150KB1-0603	0603	
1	R153	52-1344	RES 15K 1%	1/16W SM 0603 TA		PT2596 R15KB1-0603	0603	
4	R92 R149 R233 R235	52-1305	RES 169 1%	1/16W SM 0603 TA		PT2513 R169-B1-0603	0603	
11	R156 R173-174 R210-211 R269-274	52-1313	RES 1K 1%	1/16W SM 0603 TA		PT2550 R1KB1-0603	0603	
1	R336	52-1372	RES 1M 1%	1/16W SM 0603 TA		PT2625 R1MB1-0603	0603	
4	R74 R90 R226 R232	52-1317	RES 2.21K 1%	1/16W SM 0603 TA		PT2555 R2.21KB1-0603	0603	
10	R24 R66 R83 R109 R121 R133 R146 R190 R231 R247	52-1319	RES 2.67K 1%	1/16W SM 0603 TA		PT2557 R2.67KB1-0603	0603	
2	R175 R337	52-1300	RES 20 1%	1/16W SM 0603 TA		PT2507 R20-B1-0603	0603	
16	R38 R43 R176-182 R189 R191 R194-196 R332-333	52-1306	RES 200 1%	1/16W SM 0603 TA		PT2514 R200-B1-0603	0603	
8	R46-48 R94-96 R224 R228	52-1346	RES 20K 1%	1/16W SM 0603 TA		PT2598 R20KB1-0603	0603	
1	R255	52-1364	RES 221K 1%	1/16W SM 0603 TA		PT2617 R221KB1-0603	0603	
13	R40 R75 R82 R98-100 R154-155 R221 R229-230 R241 R262	52-1316	RES 2K 1%	1/16W SM 0603 TA		PT2553 R2KB1-0603	0603	
12	R5 R26 R50 R110 R113 R122 R125 R134 R137 R147 R237 R248	52-1322	RES 3.16K 1%	1/16W SM 0603 TA		PT2560 R3.16KB1-0603	0603	
6	R41 R111 R123 R135 R148 R249	52-1323	RES 3.24K 1%	1/16W SM 0603 TA		PT2561 R3.24KB1-0603	0603	
26	R25 R31-33 R60-63 R68-71 R76-79 R84-87 R105 R165 R321-322 R357-358	52-1324	RES 3.32K 1%	1/16W SM 0603 TA		PT2562 R3.32KB1-0603	0603	
50	R9 R67 R161-162 R203-204 R234 R242 R251-252 R256-257 R259-260 R264-265 R279-280 R283-284 R287-288 R291-294 R297-300 R302-305 R307-310 R313-316 R318-320 R323 R325-328	52-1307	RES 332 1%	1/16W SM 0603 TA		PT2543 R332-B1-0603	0603	
6	R101-102 R152 R261 R263 R275	50-1325	RES 33K 5%	1/16W SM 0603 TA		PT2589 R33KB5-0603	0603	
1	R169	52-1301	RES 39.2 1%	1/16W SM 0603 TA		PT2515 R39.2-B1-0603	0603	
1	R382	52-1355	RES 39.2K 1%	1/16W SM 0603 TA		PT2608 R39.2KB1-0603	0603	
13	R21-22 R107-108 R119-120 R131-132 R144-145 R245-246 R364	52-1327	RES 4.53K 1%	1/16W SM 0603 TA		PT2565 R4.53KB1-0603	0603	
1	R30	52-1368	RES 475K 1%	1/16W SM 0603 TA		PT2621 R475KB1-0603	0603	
2	R330-331	52-1356	RES 49.9K 1%	1/16W SM 0603 TA		PT2609 R49.9KB1-0603	0603	
17	R151 R198 R202 R250 R258 R278 R285-286 R290 R296 R301 R306 R311 R317 R324 R329 R365	52-1308	RES 499 1%	1/16W SM 0603 TA		PT2545 R499-B1-0603	0603	
6	R19 R55 R117 R129 R142 R243	52-1331	RES 5.76K 1%	1/16W SM 0603 TA		PT2576 R5.76KB1-0603	0603	
4	R97 R141 R225 R227	52-1357	RES 57.6K 1%	1/16W SM 0603 TA		PT2610 R57.6KB1-0603	0603	

11	R15 R27 R42 R44-45 R51 R93 R114 R126 R138 R238	52-1332	RES 6.04K 1% 1/16W SM 0603 TA	PT2577 R6.04KB1-0603	0603
12	R17-18 R52-53 R115-116 R127-128 R139-140 R239-240	52-1303	RES 60.4 1% 1/16W SM 0603 TA	PT2511 R60.4-B1-0603	0603
1	R268	52-1358	RES 63.4K 1% 1/16W SM 0603 TA	PT2611 R63.4KB1-0603	0603
1	R220	52-1311	RES 681 1% 1/16W SM 0603 TA	PT2548 R681-B1-0603	0603
9	R205-208 R214-217 R276	52-1335	RES 7.5K 1% 1/16W SM 0603 TA	PT2581 R7.5KB1-0603	0603
2	R106 R166	52-1336	RES 8.06K 1% 1/16W SM 0603 TA	PT2582 R8.06KB1-0603	0603
1	P6	38-0001	RBN CBL 20 COND. 0.1", 4.25"	PT2772 RC20-380001	RC380001
2	SC14-15	34-0125	SWITCH CAP, BLACK, ROUND	PT1354 SC340125	SC340125-FPE
1	SC13	34-0198-C	SWITCH CAP LIGHT PIPE SNGL LED HORZ	PT2504 SC340198C	SC340198C
12	SC1-12	34-0199-A	SWITCH CAP dbx LIGHTED	PT2024 SC340199A	PCBNULL
1	S6	70-3026	SOCKET, PLCC 32, PLCC/R-32SKT	PT1419 SKT32-703026	PLCC/R-32SKT
1	SW2	44-0050	SWITCH DPDT MINI IN-OUT 6 PIN E-SWITCH	PT1256 SW440050	SW440050
2	SW1 SW16	44-0051	SWITCH, 4PDT, MINI IN-OUT, 12 PIN, E-SWITCH	PT1257 SW440051	SW440051
1	SW15	44-0119	ENCODER 20mm D SHAFT 30 POS W/SWITCH VERT MOUNT	PT1890 SW440119	SW440119
12	SW3-7 SW9-14 SW17	44-0185	SWITCH, SPST, LITE TOUCH, MINI, W/ PROJECTED PLUNGER SMT	PT1962 SW440185	SW4PTACT-3
7	TP1-2 TP4 TP8-10 TP12	NON-PART	NON-PART, TEST POINT, ENGINEERING PROBE POINT	PT1653 TESTPOINT	TESTPOINTSM
1	U28	70-4014	V-REG, 7805, +5V, 1.5 AMP, TO-220	PT1591 U7805	TO220(IGO)-V
1	U10	70-4123	V-REG, 7815, +15V, 1 AMP, TO-220	PT1592 U7815	TO220(IGO)-V
1	U12	70-4124	V-REG, 7915, -15V, 1 AMP, TO-220	PT1594 U7915	TO220(GIO)-V
1	U7	72-0046	IC 25AA640 64K SERIAL EEPROM TA	PT2774 U25AA260	SO8
1	U5	72-6318	IC 32K x 8 SRAM 15ns SOJ28	PT2294 U32K8S15-J	SOJ28-300
6	U2 U33 U36 U38 U42 U51	72-1439	IC, 5532MD, DUAL BIPOLAR OPAMP, SO8-200	PT1306 U5532MD-S	SO8-200
2	U25 U48	72-5426	IC, 74AC04, HEX INVERTER, SO14, T&R	PT1325 U74AC04-S	SO14
1	U21	72-5437	IC 74VHC273 FLIP-FLOP OCTAL-D SO20W T&R	PT1909 U74VHC273-S	SO20W
1	U17	72-0045	IC 74VHC373 OCTAL LATCH SO20W	PT2771 U74VHC373-S	SO20W
1	U44	72-0044	IC 74VHC4040 12 BIT RIPPLE COUNTER SO16	PT2759 U74VHC4040-S	SO16
1	U20	72-6316	IC 78L32P-24 8 BIT MICROCONTROLLER 3.3V	PT2316 U78L32P-24	PLCC-44
1	U11	72-1485	IC AK4356 192kHz 24 BIT 6 CHANNEL DAC	PT2717 UAK4356-Q	QFP44-10X10
1	U26	72-1266	IC, AK5383, 96 kHz, DUAL 24BIT ADC, SO28W	PT1557 UAK5383-S	SO28W
1	U1	72-6305	IC DSP56367 DSP 150MHZ QFP144-20X20	PT2452 UDSP56367-Q	QFP144-20X20
1	U24	70-4021	V-REG, LD1117V33, +3.3V, 0.8 AMP, TO-220, BULK	PT1795 ULD1117V33	TO220(GOI)-V
1	U14	70-0063	V-REG LM2575S-ADJ SWITCHING REG 1A TO-263(5)	PT2739 ULM2575S-ADJ	TO-263(5)
1	U16	70-4007	V-REG, LM317T, ADJ REG, 1.5 AMP, TO-220	PT1785 ULM317T	TO220(AOI)-V
2	U4 U18	72-5434	IC NC7SZ125 TINYLOGIC BUFFER SOT23-5 TA	PT1881 UNC7SZ125-S	SOT23-5
1	U3	72-6308	IC NCP304 VOLTAGE DETECTOR SC-82AB	PT2393 UNCP304	SC-82AB
11	U8-9 U15 U19 U22-23 U27 U60-62 U70	72-1480	IC NUM4580 DUAL OP-AMP SO8	PT1374 UNJM4580-S	SO8
1	U13	72-0042-00V1	IC CPLD ispLSI2064VE dbx Driverack PA V1	PT2785 UP720042	QFP100-14X14
1	U6	72-5539-03V1	IC AM29LV040B 512K x 8 FLASH MEMORY dbx Driverack PA V1	PT2292 UP725539	PLCC/R-32
1	Y3	76-0202	XTAL 24.000MHz METAL CAN SURFACE MOUNT T&R	PT1928 Y24.000M760202	XTAL2-V
1	X7	76-0006	XTAL 24.576MHz SMT CX16F/CS49G PKG	PT2713 Y24.576M760006	YCX16F/CX49G

Page 1 Title Page	Page 2 Input Jacks	Page 3 Analog Input	Page 4 Analog Output	Page 5 Output Jacks
Page 6 Converters	Page 7 DSP	Page 8 CPU	Page 9 Clocks	Page 10 Digital Pwrgates
Page 11 Analog Pwrgates	Page 12 LED Control	Page 13 Meter LEDS	Page 14 Switches	Page 15 Power Supply



LBL1
30-0121

PCB1
80-1790

REV	DESCRIPTION	ECN #	INIT	DATE
D0	REMOVE EPROM SOCKET, RELEASE TO PRODUCTION	2158	DWB	8-9-02
D0	RELEASE TO PRODUCTION	2085	DWB	6-12-02
C2	RELEASE TO PRODUCTION	2084	DWB	6-12-02
C1	NEVER RELEASED TO MANUFACTURING			
C0	RELEASE TO PRODUCTION	2060	DWB	5-16-02
B0	RELEASE TO PRODUCTION		BDP	5-7-02
A3	CHANGE CAPACITOR C79, C80, C81 AND P1 TO 60-0201	2047	DWB	4-26-02
A2	Change C131, C126 from .1uF to 2.2uF. Install 100uF cap at P3. Add 20 Ohm resistor at R537.	2036	RBB	4-15-02
A1	Change R2B, R29, R36 and R266 from 1K to 10K Remove 44 pin PLCC socket for microprocessor	2028	RBB	4-05-02
A0	RELEASE TO PRODUCTION		DWB	3-25-02

REVISION HISTORY

dbx PROFESSIONAL PRODUCTS
8760 South Sandy Parkway Sandy Utah 84070

TITLE: dbx DriveRack PA MAIN PCB

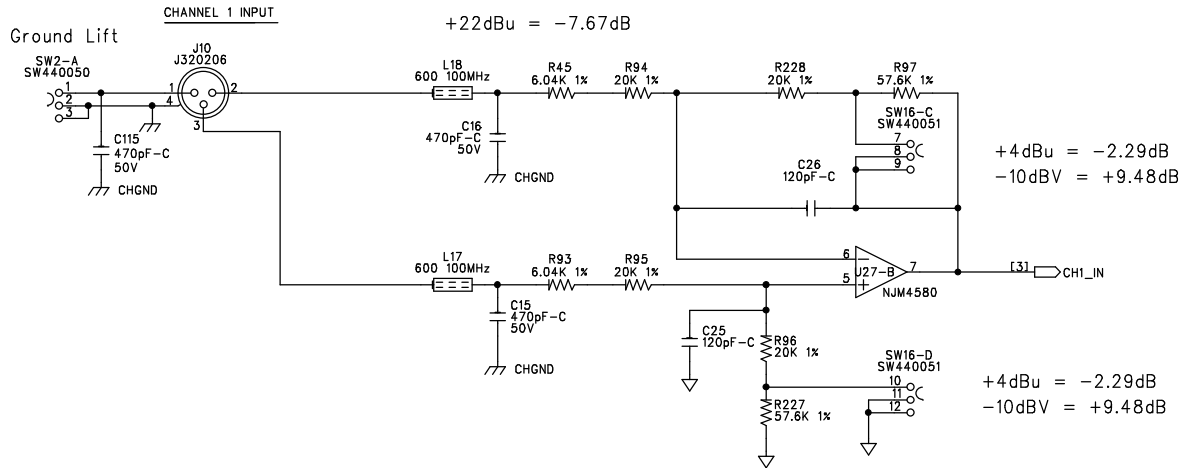
DESIGNER: DAVID W. BYBEE ENGINEER: R. BOATRIGHT

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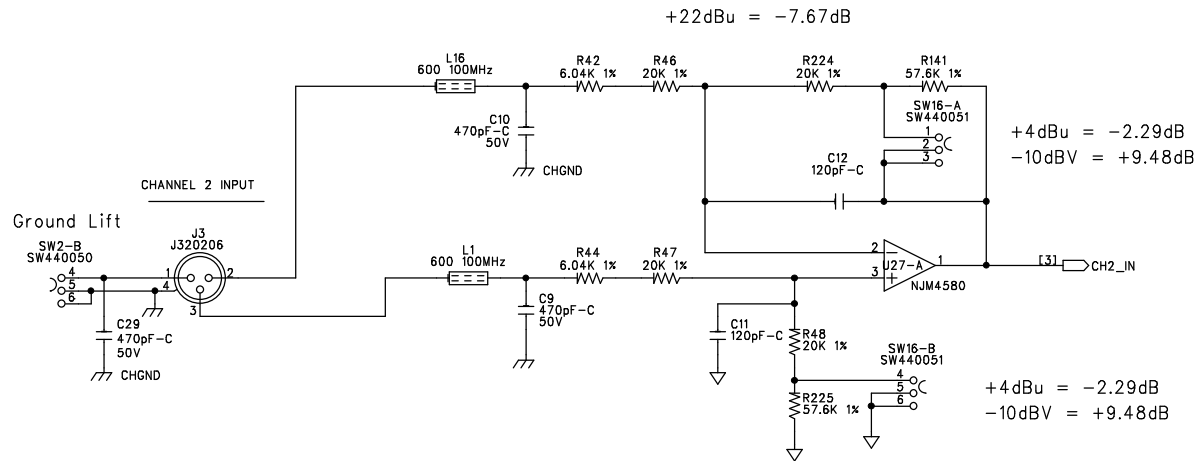
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SCI5
SC340125

SCI4
SC340125

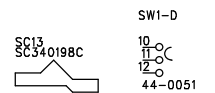
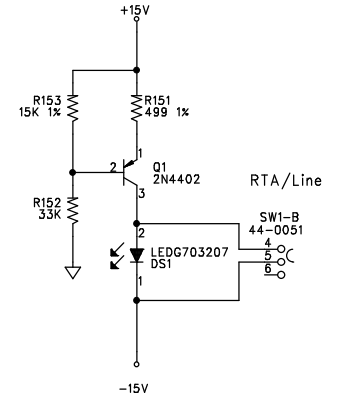
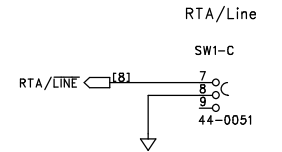
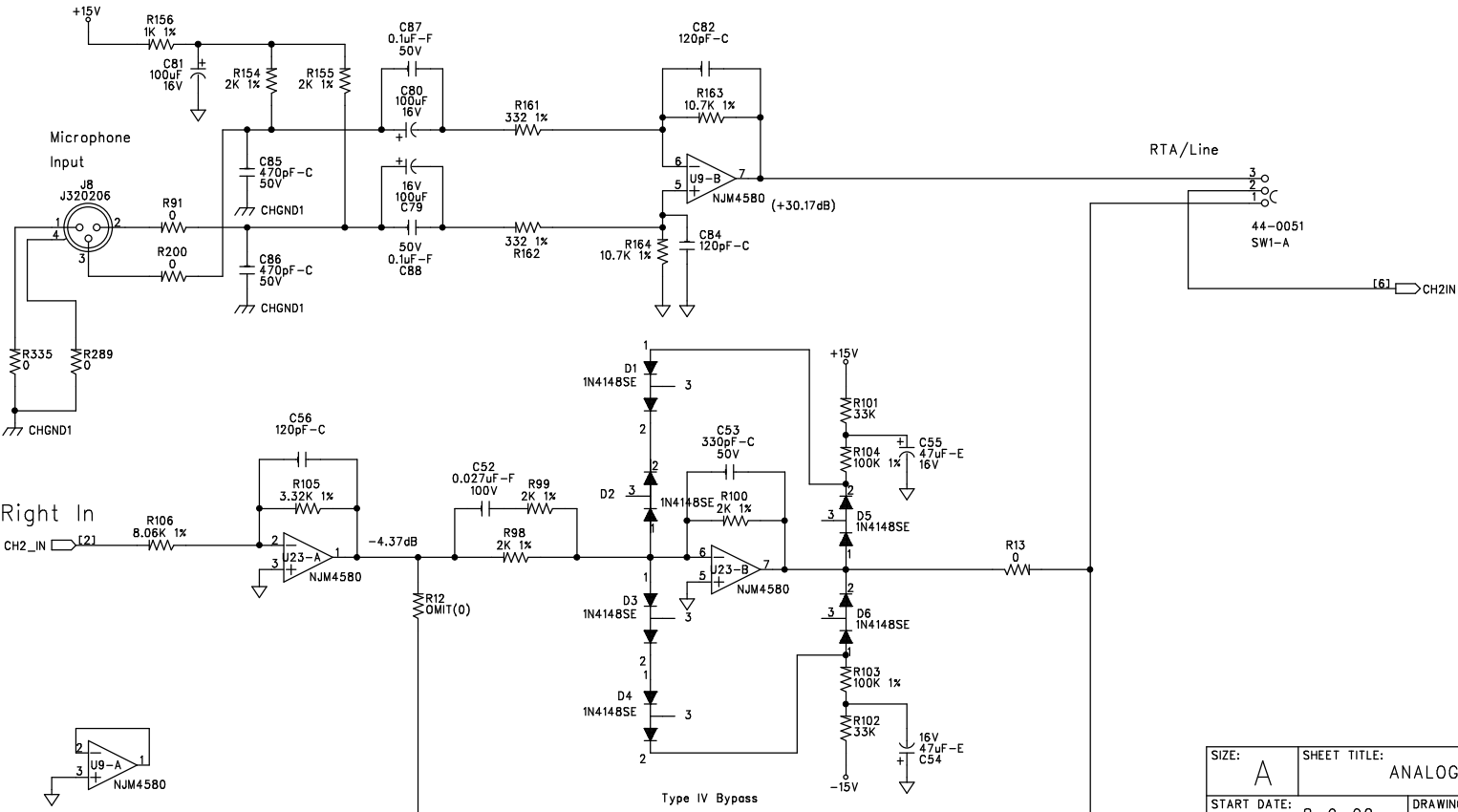
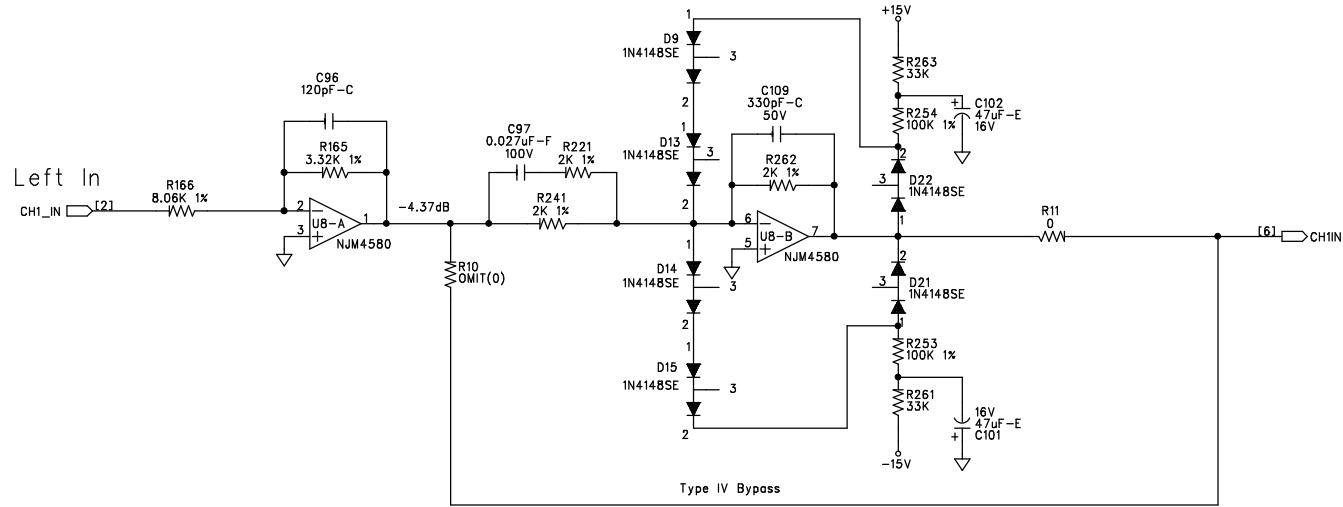


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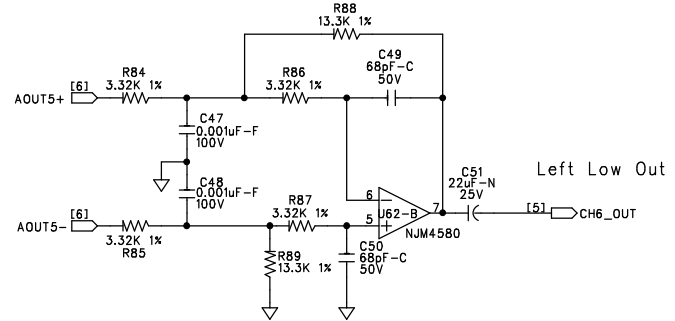
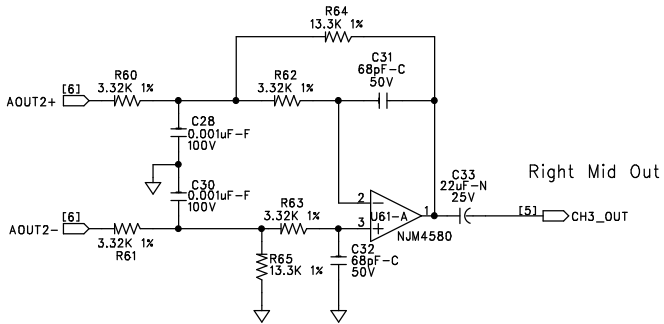
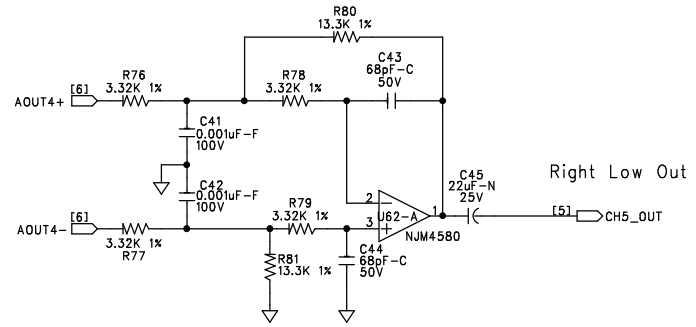
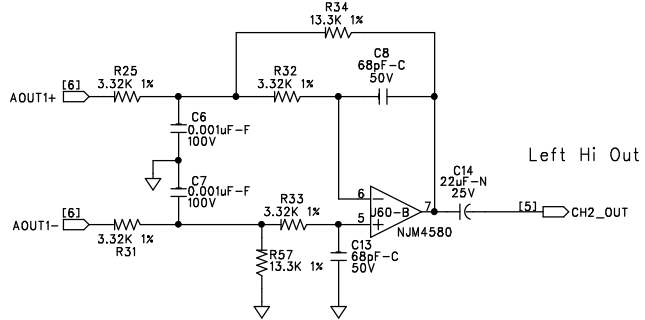
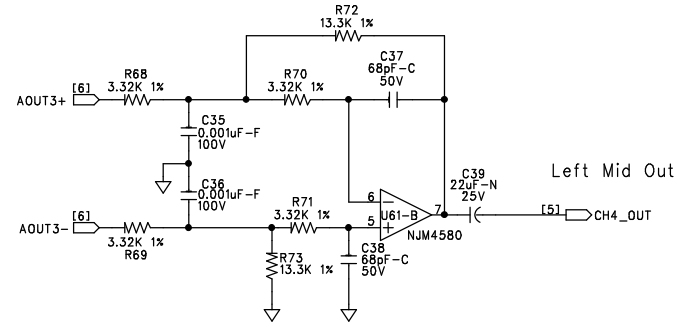
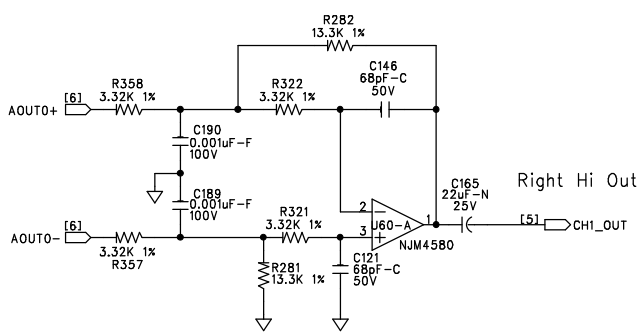


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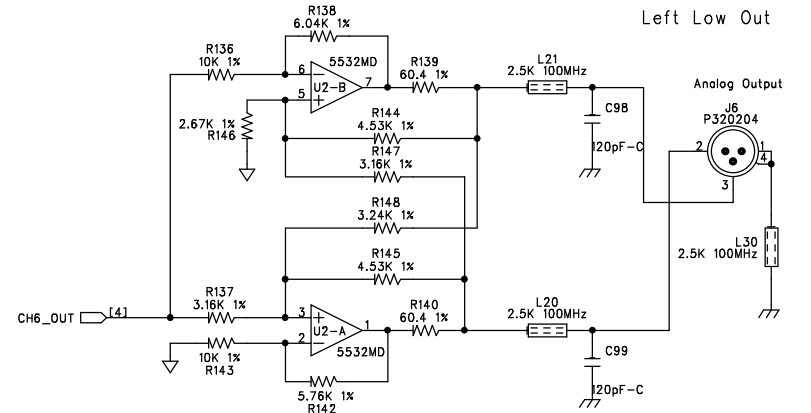
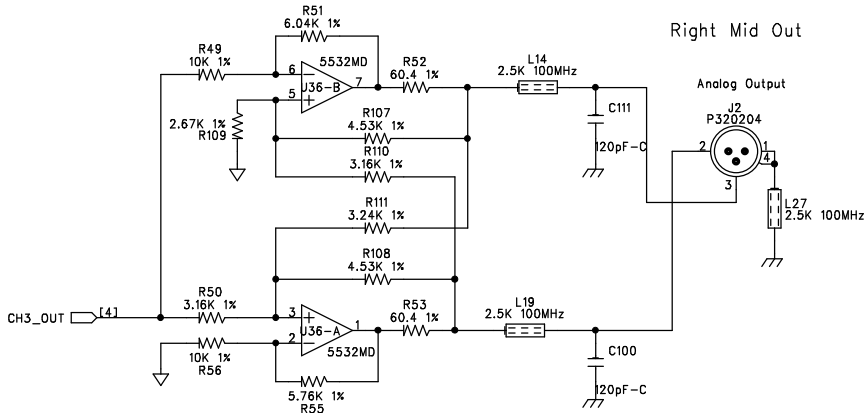
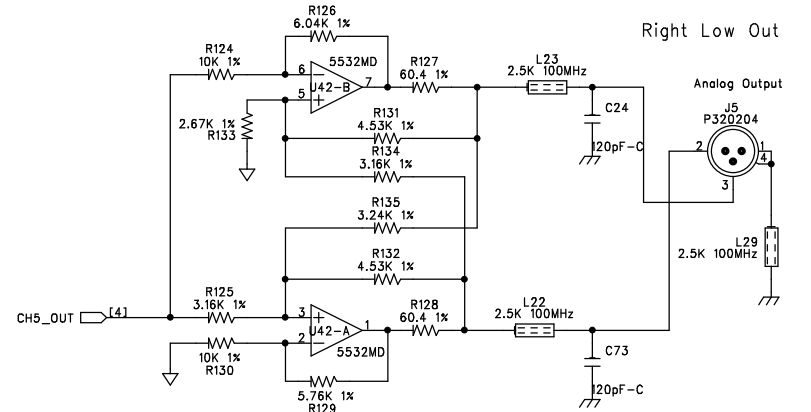
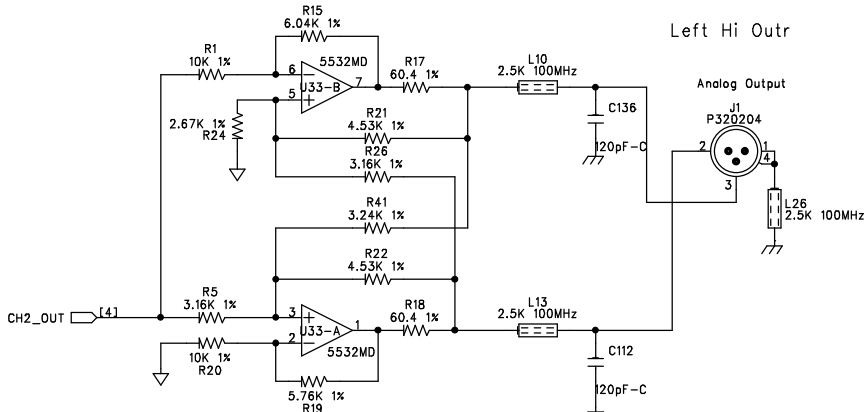
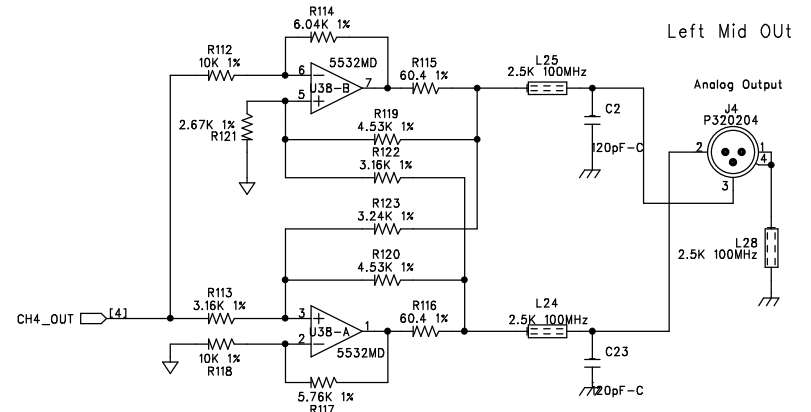
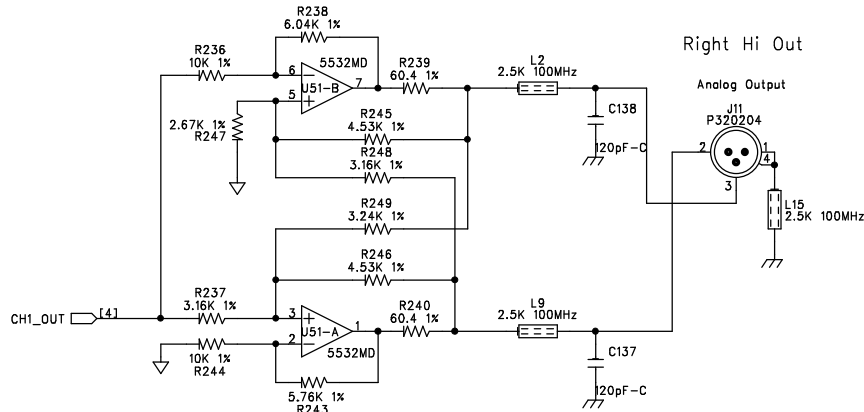
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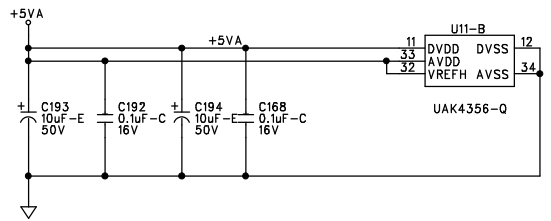
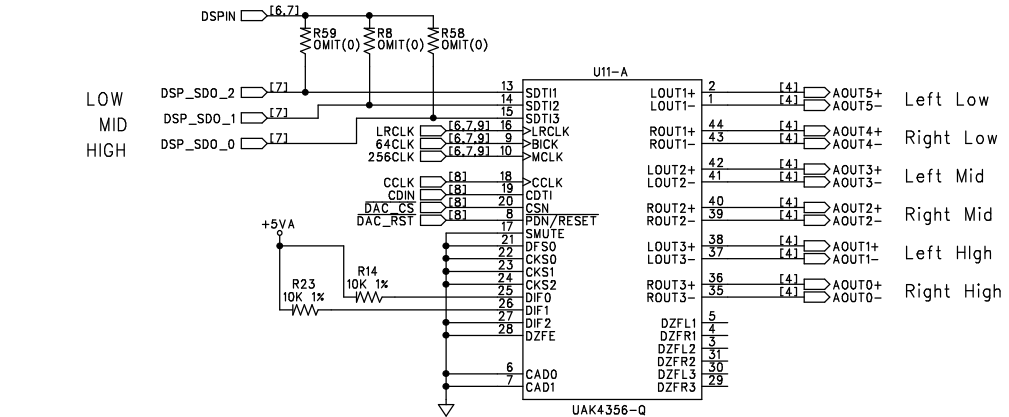
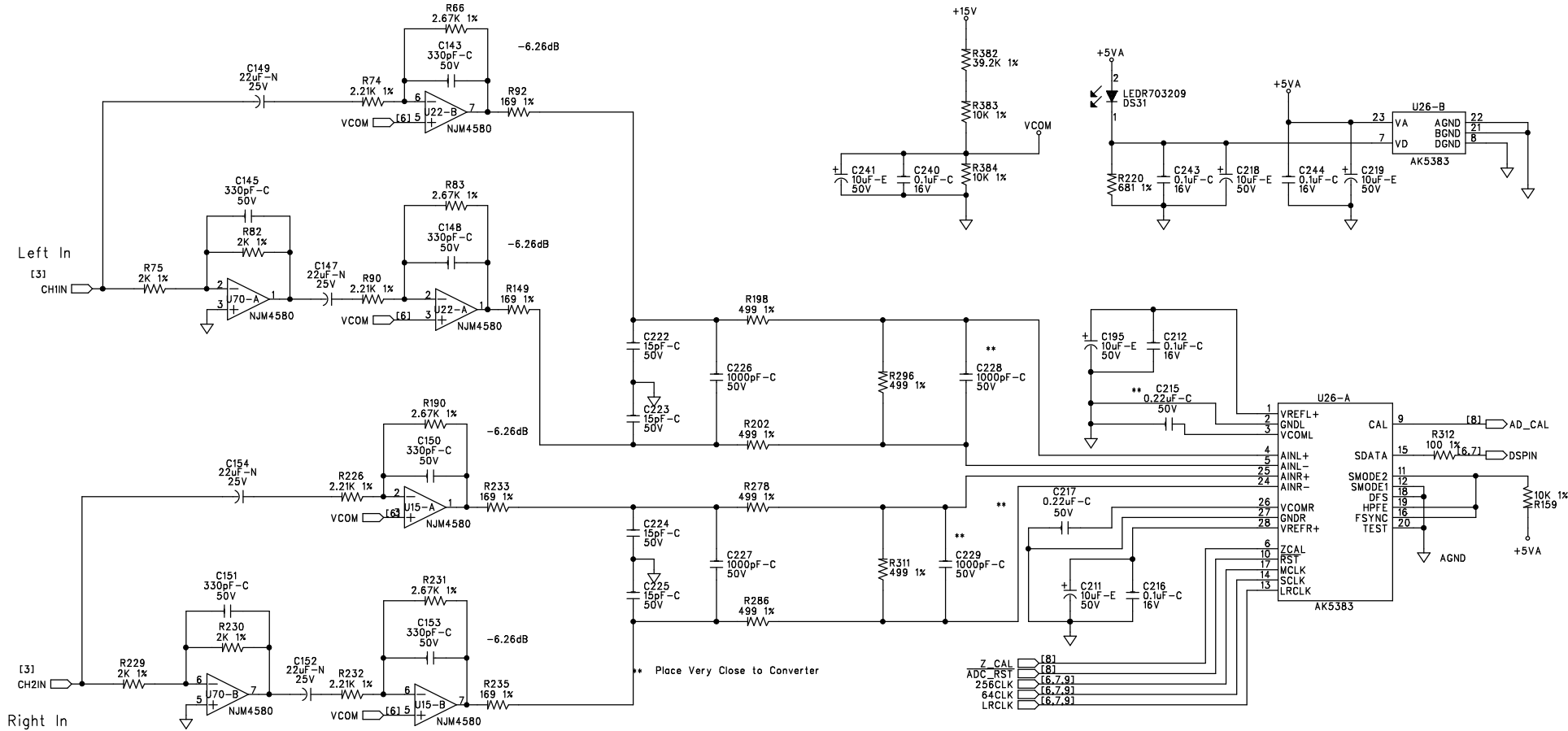
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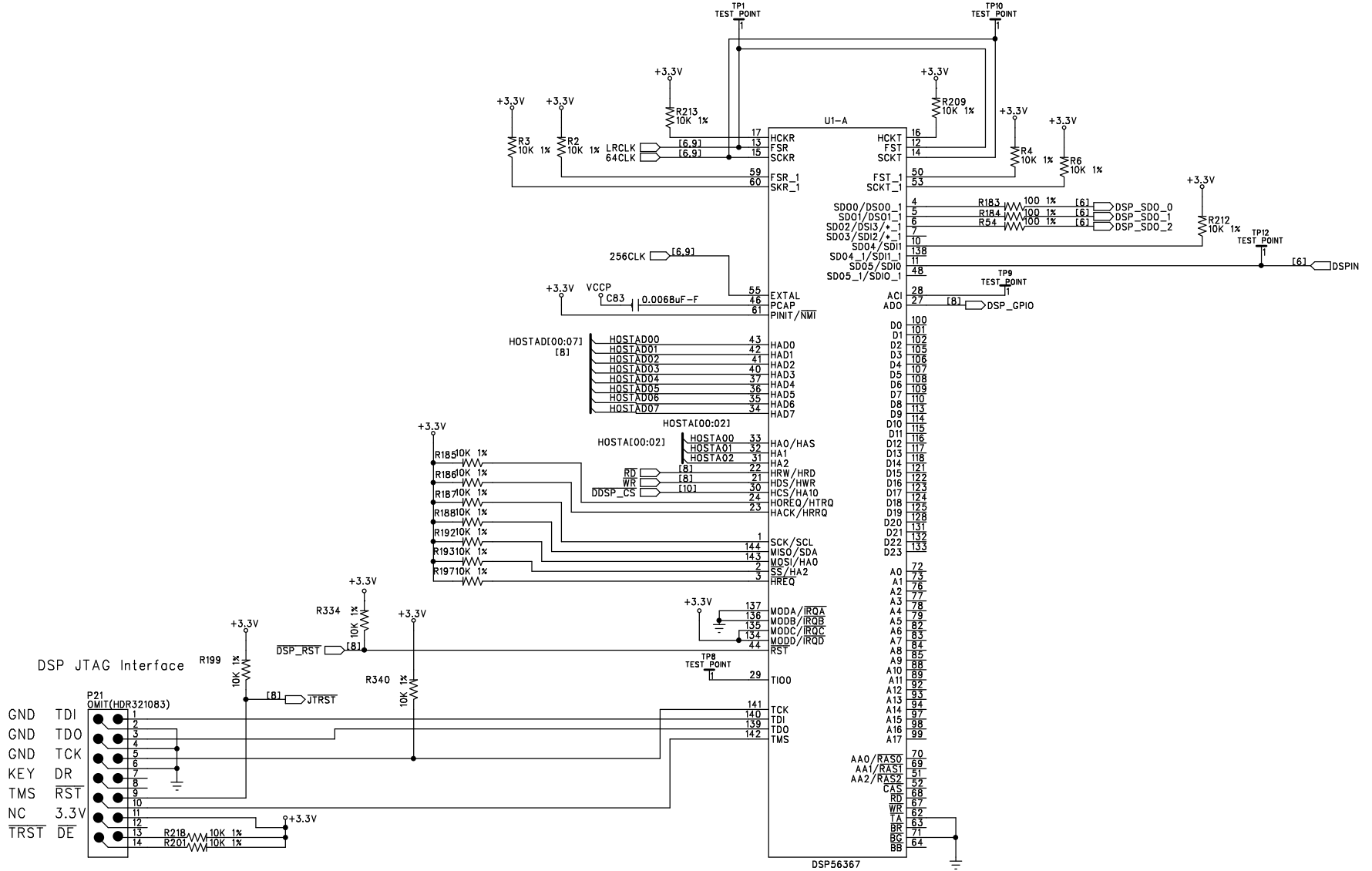
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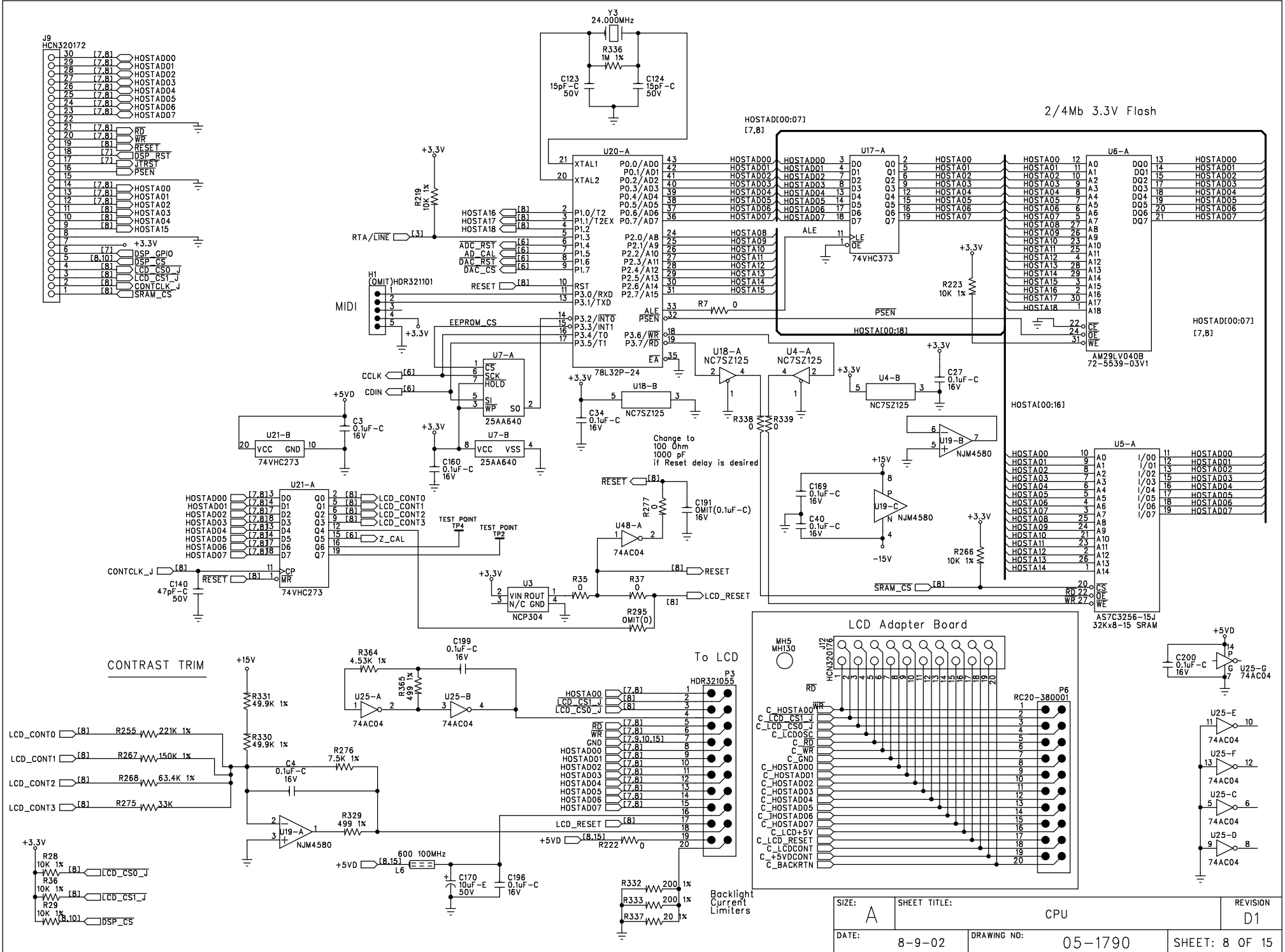


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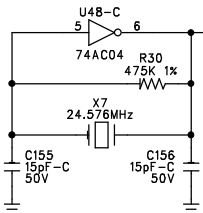




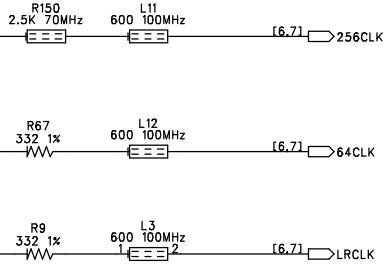
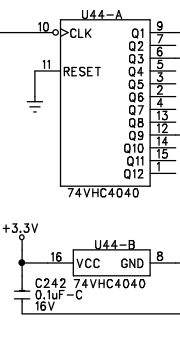
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Divider/Clock Tree

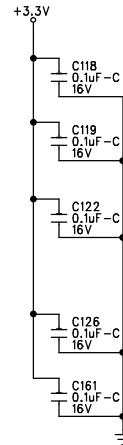
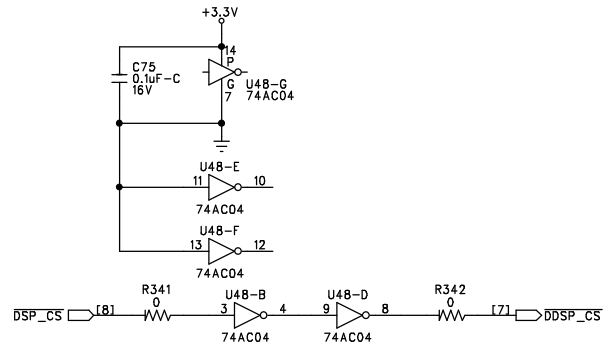
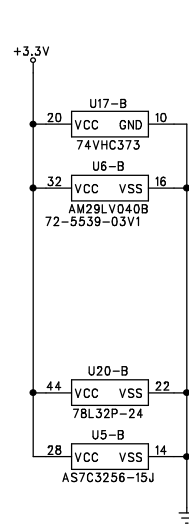
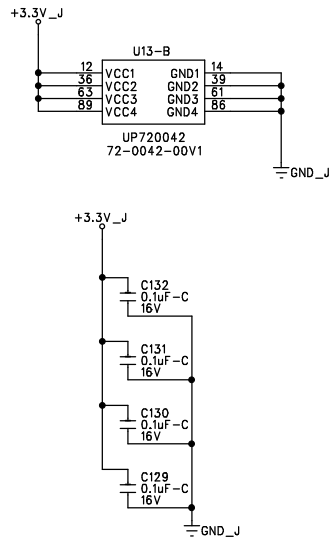
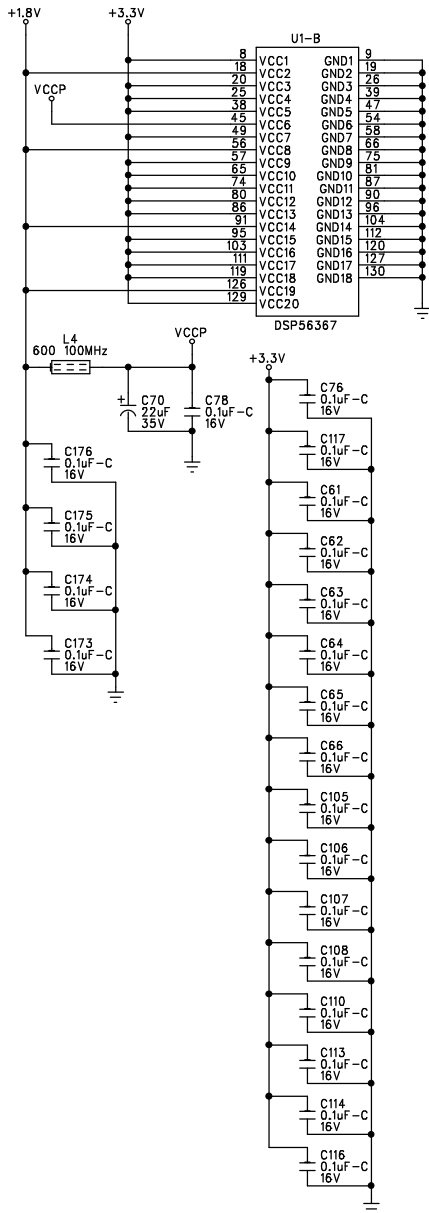
x512fs Crystal Oscillator
24.576 MHz



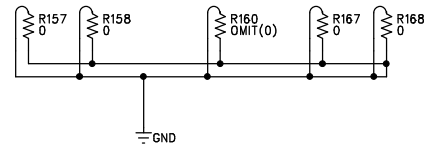
Change to 74VHC4040



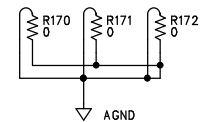
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DATE: 8-9-02	DRAWING NO: 05-1790	SHEET: 9 OF 15



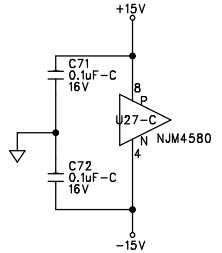
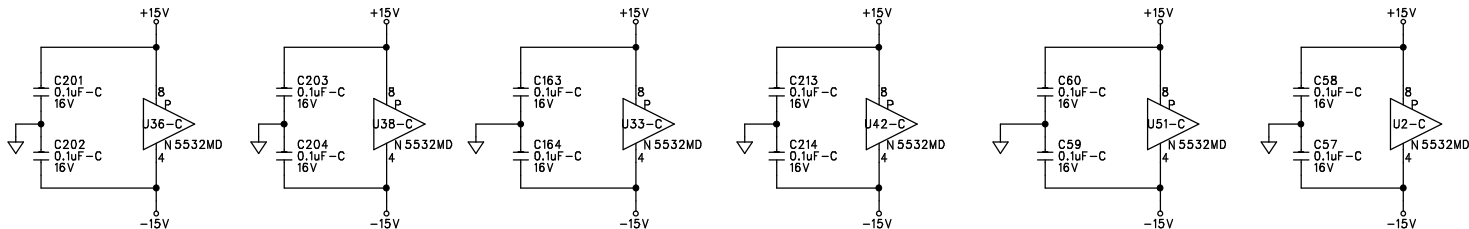
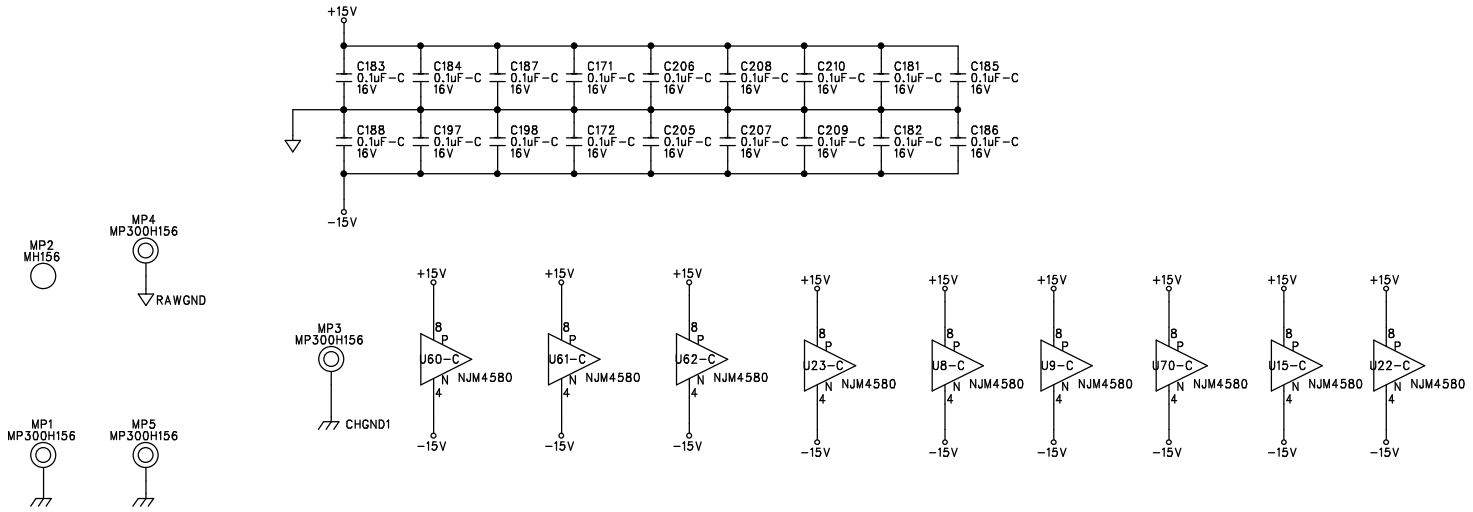
Digital Ground Test Points



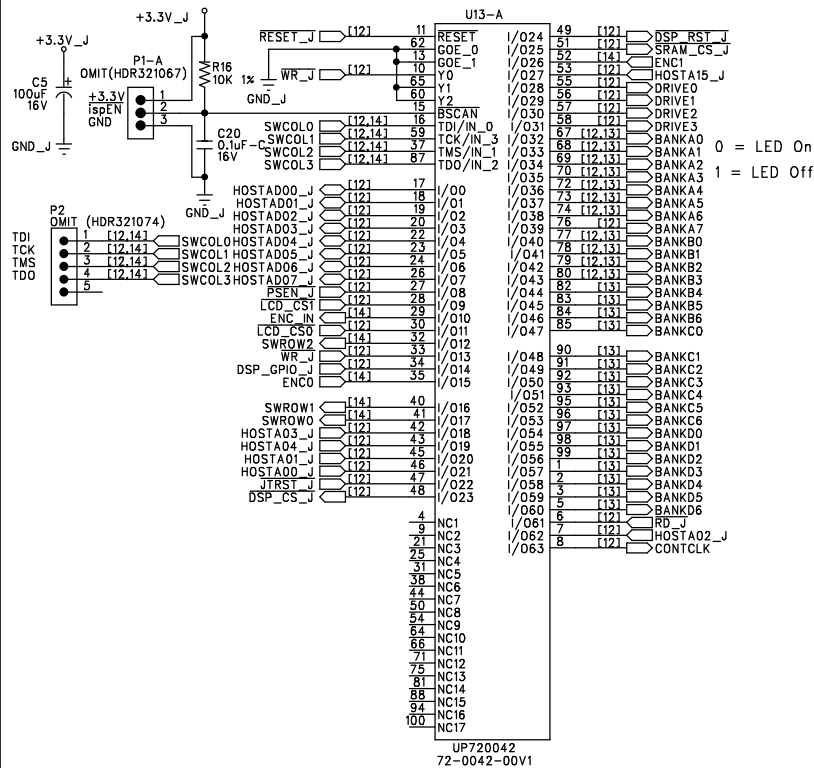
Analog Ground Test Points

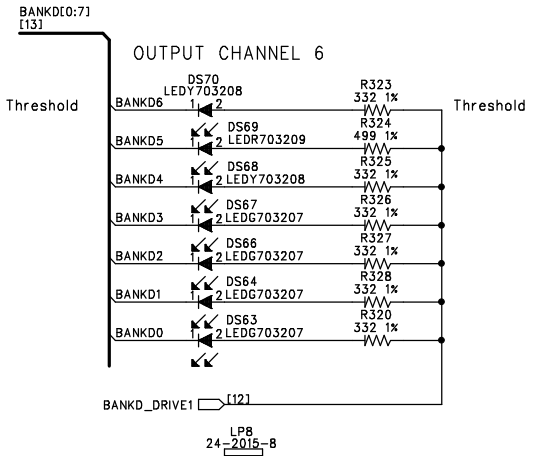
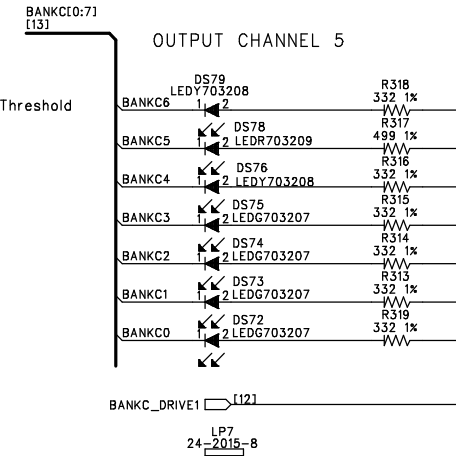
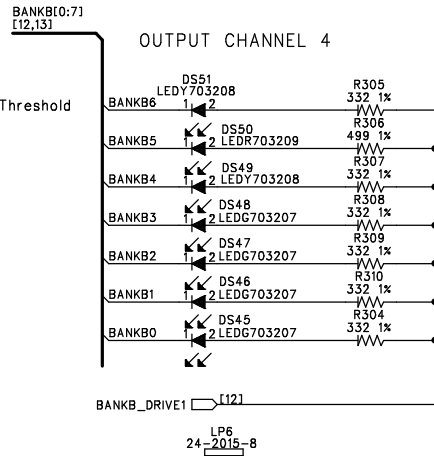
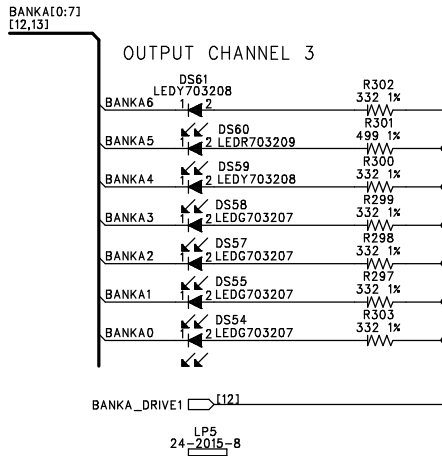
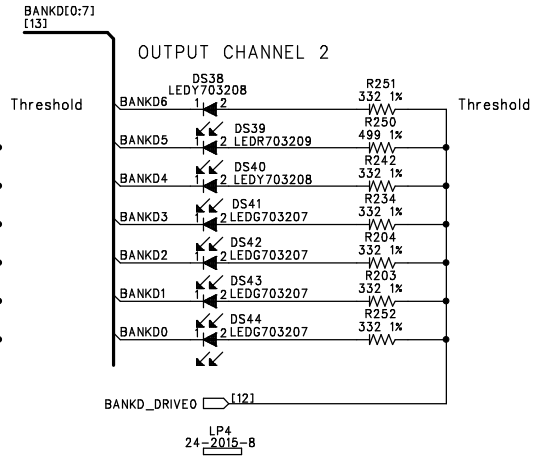
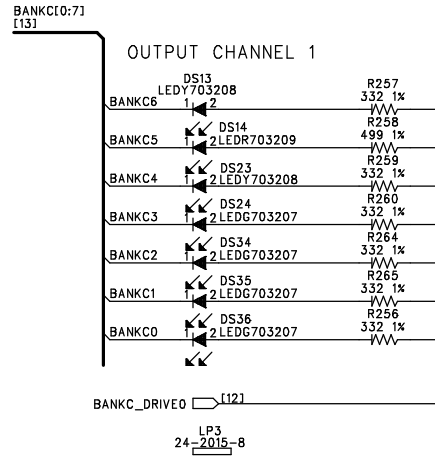
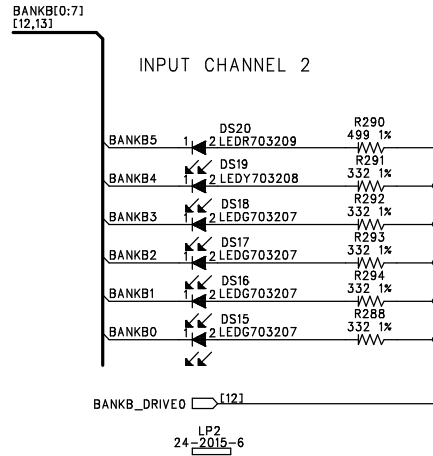
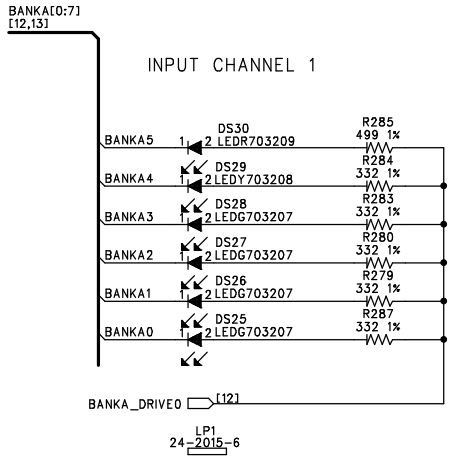


SIZE: A	SHEET TITLE: DIGITAL POWER GATES	REVISION: D1
DATE: 8-9-02	DRAWING NO: 05-1790	SHEET: 10 OF 15

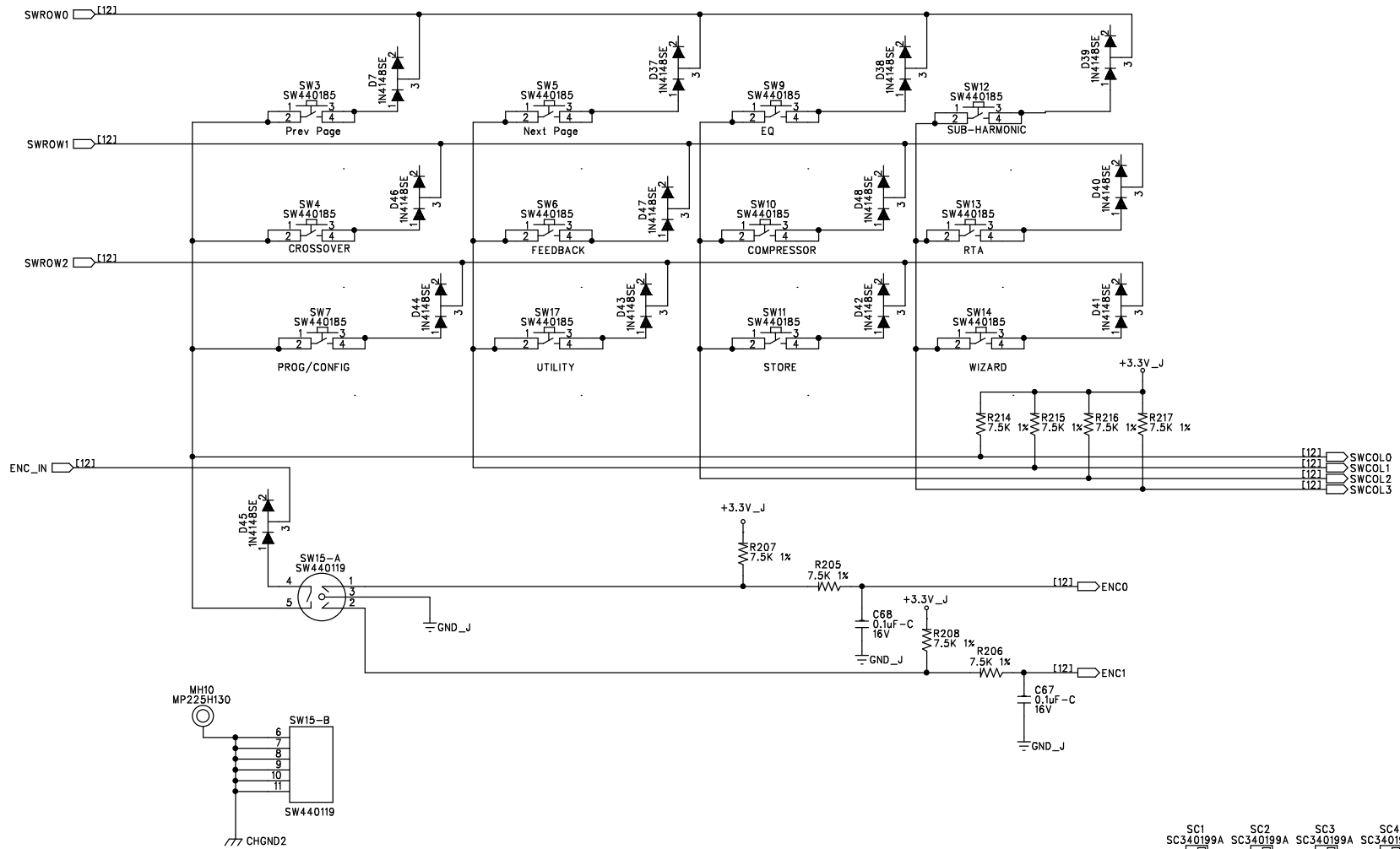


SIZE: A	SHEET TITLE: ANALOG POWER GATES	REVISION: D1
START DATE: 8-9-02	DRAWING NO: 05-1790	SHEET: 11 OF 15

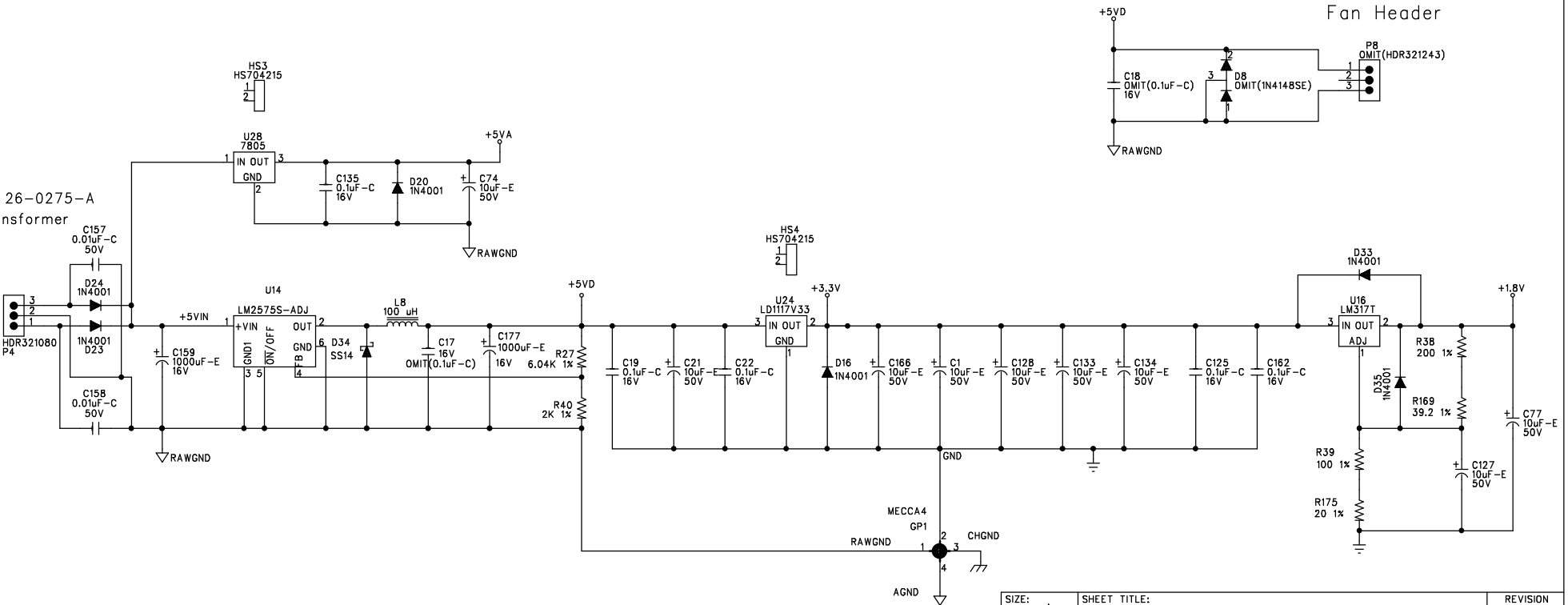
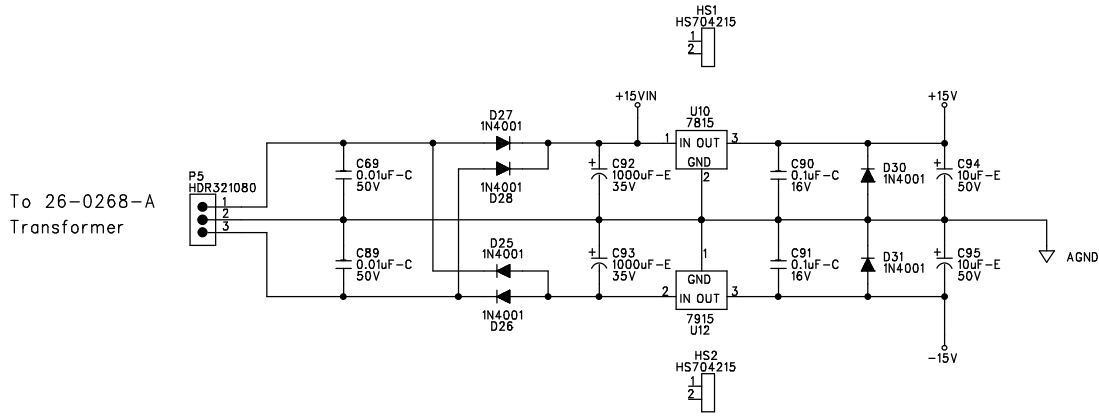




SIZE: A	SHEET TITLE: FRONT PANEL - METER LEDS	REVISION: D1
START DATE: 8-9-02	DRAWING NO: 05-1790	SHEET: 13 OF 15



- | | | | | | |
|------------------|------------------|------------------|-------------------|-------------------|-------------------|
| SC1
SC340199A | SC2
SC340199A | SC3
SC340199A | SC4
SC340199A | SC5
SC340199A | SC6
SC340199A |
| SC7
SC340199A | SC8
SC340199A | SC9
SC340199A | SC10
SC340199A | SC11
SC340199A | SC12
SC340199A |



SIZE: A	SHEET TITLE: POWER SUPPLY	REVISION: D1
DATE: 8-9-02	DRAWING NO: 05-1790	SHEET: 15 OF 15

Bill Of Materials for 051790D1.sch on Fri Aug 09 11:42:15 2002

Qty	Reference	HMG#	Description	Audit	Schematic Part	PCB Decal
1	PCB1	80-1790	PCB 80-1790 dbx DRIVERACK PA	PT2044	80XXXXXX	BARCODE
14	A7-18 A20 A22	NON-PART	NON-PART, PCB ONLY, BREAKOFF PART	PT1481	BRKOFF	BRKOFF
12	C6-7 C28 C30 C35-36 C41-42 C47-48 C189-190	56-0000	CAP 0.001uF FILM PTR 100V 5% AF TA	PT1629	C0.001UF100JR	RFCC200
1	C83	56-0005	CAP 0.0068uF FILM PTR 100V 5% RF TA	PT1307	C0.0068UF100JR	RFDC200
4	C69 C89 C157-158	62-1311	CAP 0.01uF CER 50V 20% Y5V 0603 TA	PT2665	C0.01UC50M0603	0603
2	C52 C97	56-0033	CAP 0.027uF FILM PTR 100V 5% RF TA	PT1282	C0.027UF100JR	RFEF200
91	C3-4 C19-20 C22 C27 C34 C40 C57-68 C71-72 C75-76 C78 C90-91 C105-108 C110 C113-114 C116-119 C122 C125-126 C129-132 C135 C160-164 C168-169 C171-176 C181-188 C192 C196-210 C212-214 C216 C240 C242-244	62-1310	CAP 0.1uF CER 16V 20% Y5V 0603 TA	PT2696	C0.1UC16M0603	0603
3	C17-18 C191	OMIT	OMIT CAP 0.1uF CER 16V 20% Y5V 0603 TA (62-1310)	PT2711	C0.1UC16M06030	0603
2	C87-88	56-0012	CAP 0.1uF FILM MTPPT 50V 5% RF TA	PT1200	C0.1UF50JR	RFEC200
2	C215 C217	62-3209	CAP 0.22uF CER 50V 10% X7R 1206 TA	PT2271	C0.22UC50K1206	1206
4	C226-229	62-1308	CAP 1000pF CER 50V 20% Y5V 0603 TA	PT2651	C1000PC50M0603	0603
2	C159 C177	60-0064	CAP 1000uF EL 16V 20% GP 10x17R 5LL BK	PT1334	C1000UE16MR	REM200P
2	C92-93	60-1073	CAP 1000uF EL 35V 20% HT 13x25R 5LL BK	PT1971	C1000UE35MR1	REQ200P
4	C5 C79-81	60-0201	CAP 100uF EL 16V 20% GP 6x8R 5LS TA	PT1378	C100UE16MR	REG200P
19	C1 C21 C74 C77 C94-95 C127-128 C133-134 C166 C170 C193-195 C211 C218-219 C241	60-1074	CAP 10uF EL 50V 20% HT 5x11R 5LS TA	PT1972	C10UE50MR1	REE200P
20	C2 C11-12 C23-26 C56 C73 C82 C84 C96 C98-100 C111-112 C136-138	62-1304	CAP 120pF CER 50V 5% NPO 0603 TA	PT2655	C120PC50J0603	0603
8	C123-124 C155-156 C222-225	62-1300	CAP 15pF CER 50V 5% NPO 0603 TA	PT2659	C15PC50J0603	0603
1	C70	60-0010	CAP 22uF EL 35V 20% GP 5x11R 5LS TA	PT2110	C22UE35MR	REE200P
10	C14 C33 C39 C45 C51 C147 C149 C152 C154 C165	60-0402	CAP 22uF ELNP 25V 20% GP 6x11R 5LS TA	PT1084	C22UN25MR	REG200
8	C53 C109 C143 C145 C148 C150-151 C153	62-1306	CAP 330pF CER 50V 10% X7R 0603 TA	PT2653	C330PC50K0603	0603
8	C9-10 C15-16 C29 C85-86 C115	62-1307	CAP 470pF CER 50V 10% X7R 0603 TA	PT2652	C470PC50K0603	0603
1	C140	62-1302	CAP 47pF CER 50V 5% NPO 0603 TA	PT2657	C47PC50J0603	0603
4	C54-55 C101-102	60-0054-01	CAP 47uF EL 16V 20% GP 5x11R 5LS TA	PT1108	C47UE16MR	REE200P
12	C8 C13 C31-32 C37-38 C43-44 C49-50 C121 C146	62-1303	CAP 68pF CER 50V 5% NPO 0603 TA	PT2656	C68PC50J0603	0603
12	D16 D20 D23-28 D30-31 D33 D35	70-0000	DIO 1N4001 50V 1 AMP AMMO TA	PT1003	D1N4001-R	RDB200
25	D1-7 D9 D13-15 D21-22 D37-48	70-0113	DIO MMBD4148SE DUAL 75V 600mA SOT-23 TA	PT1326	D1N4148SE-S	SOT-23
1	D8	OMIT	OMIT DIO MMBD4148SE DUAL 75V 600mA SOT-23 TA (70-0113)	PT1327	D1N4148SE-S-O	SOT-23
1	D34	70-0147	DIO SCHOTTKY 1A SS14 DO-214AC/SMA	PT1877	DSS14S	DO-214AC/SMA
2	A4-5	NON-PART	NON-PART, FIDUCIAL, TARGET FOR AUTO INSERTION	PT1271	FIDUCIAL	FIDUCIAL
4	A1-3 A6	NON-PART	NON-PART FIDUCIAL TARGET FOR AI AND XRAY	PT2796	FIDUCIAL-XRAY	FIDUCIAL-XRAY

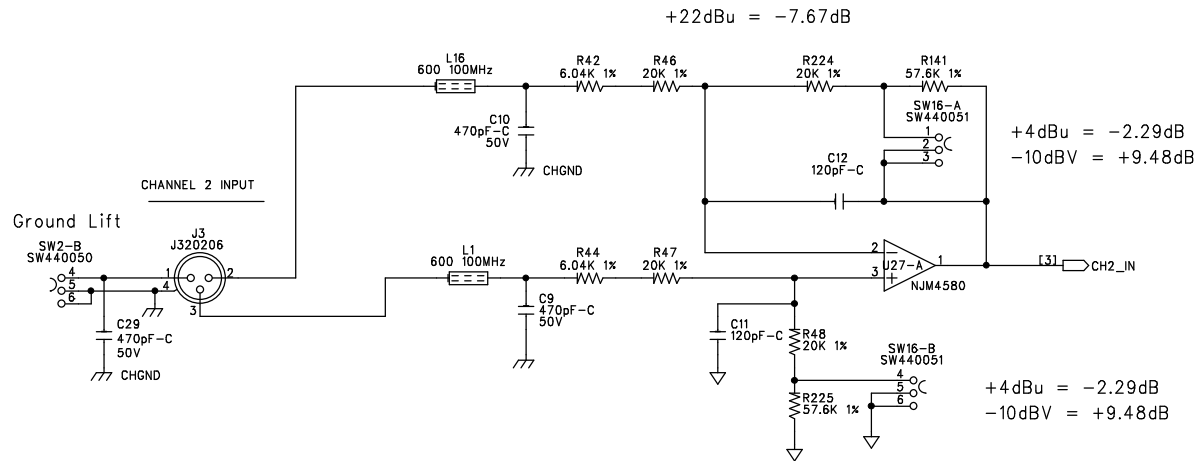
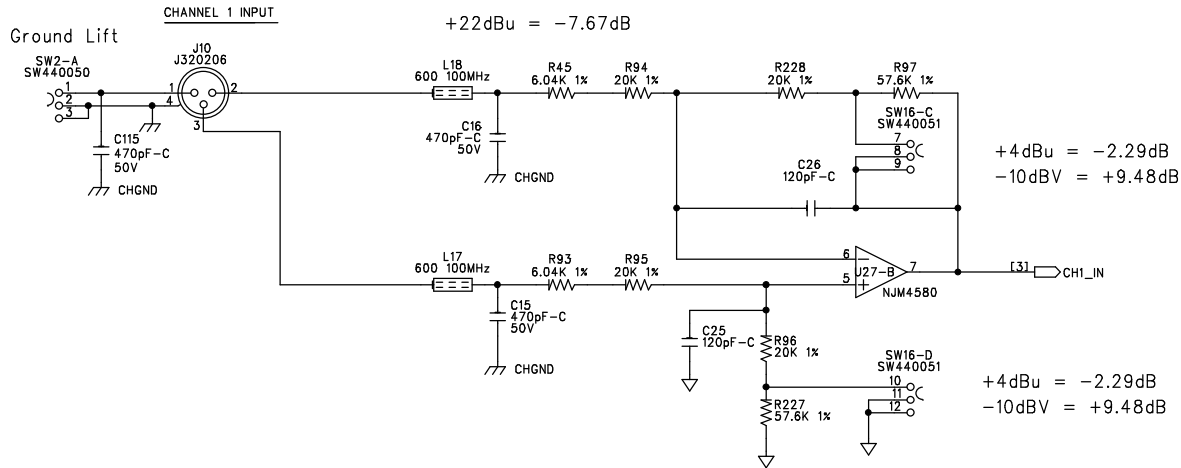
2	J7 J9	32-0172	HCN CONN 30 PIN .5 MM CNTS 1X30 FML RA	PT2724 HCN320172	HC320172
1	J12	32-0176	HCN CONN 20 PIN FEM VRT MNT SMT	PT2773 HCN320176	HC102V079050FS
1	P3	32-1055	HDR, 20 PIN, 0.1" SPC, 2 X 10, VERT, MALE	PT1340 HDR321055	HC102
2	P4-5	32-1080	HDR, 3 PIN, 0.1" SPC, 1 X 3, LCK, R/A, MALE	PT1073 HDR321080	HC3L
1	P1-A	OMIT	OMIT HDR 3 PIN 0.1" SPC 1 X 3 VERT MALE CUT FROM 14 PIN (32-1067)	PT2703 HDR321067-O	HC31
1	P2	OMIT	OMIT HDR 5 PIN 0.1" SPC 1 X 5 VERT MALE	PT2788 HDR321074-O	HC51M
1	P21	OMIT	OMIT HDR 14 PIN 0.1" SPC 2 X 7 VERT MALE (32-1083)	PT2127 HDR321083-O	HC72
1	H1	OMIT	OMIT, HDR, 5 PN, 0.079" SP, 1 X 5, 0.020" PS LK SD PO VT MA (32-1101)	PT1825 HDR321101-O	HC579LSFPM
1	P8	OMIT	OMIT HDR 3 PIN .098 SPC 3X1 SHROUDED VERTICAL MT. (32-1243)	PT2795 HDR321243-O	HC31V98SP
4	HS1-4	70-4215	HEATSINK, TO-220, VERT	PT1339 HS704215	HS704215
3	J3 J8 J10	32-0206	CON, JACK, XLR, R/A, PCA A SERIES	PT1219 J320206	XLRF-1
1	LBL1	30-0121	LABEL BARCODE AUTOINSERTABLE RAW	PT2790 LABEL300121	LABEL300121
39	DS1-2 DS5 DS7-8 DS10-11 DS15-18 DS24-28 DS34-36 DS41-48 DS54-55 DS57-58 DS63-64 DS66-67 DS72-75	70-3207	LED GREEN D1206 T&R	PT1902 LEDG703207	D1206
10	DS9 DS14 DS20 DS30-31 DS39 DS50 DS60 DS69 DS78	70-3209	LED RED D1206 T&R	PT1901 LEDR703209	D1206
19	DS3-4 DS6 DS12-13 DS19 DS23 DS29 DS33 DS38 DS40 DS49 DS51 DS59 DS61 DS68 DS70 DS76 DS79	70-3208	LED YELLOW D1206 T&R	PT1900 LEDY703208	D1206
9	L1 L3-4 L6 L11-12 L16-18	26-0000	IND FBD 600 OHM @ 100Hz 200mA 0603 TA	PT2728 LFB260000	0603
18	L2 L9-10 L13-15 L19-30	26-0001	IND FBD 2.5K OHM @ 100Hz, 50mA 0603 TA	PT2729 LFB260001	0603
1	R150	26-0217	IND FBD 2.5K OHM @ 70MHz 0805 TA	PT1261 LFB260217	0805
1	L8	26-0002	IND PWR 100uH 3A	PT2754 LI260002	UP3B
2	LP1-2	NON-PART	NON-PART 6 POS NOT INSTALLED UNTIL MECHANICAL ASSY(LIGHT PIPE)	PT1967 LP242015-6	LP242015-6
6	LP3-8	NON-PART	NON-PART 8 POS NOT INSTALLED UNTIL MECHANICAL ASSY(LIGHT PIPE)	PT1968 LP242015-8	LP242015-8
1	GP1	NON-PART	NON-PART MECCA GND/PWR TIE POINT 4 POS	PT2482 MECCA4	MECCA4
6	MH3-6 MH8 MH12	NON-PART	NON-PART, MOUNTING HOLE, 0.130" NON-PLATED, #4	PT1242 MH130	MH130
2	MH7 MP2	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	PT2794 MH156-TOOL	MH156-TOOL
1	MH10	NON-PART	NON-PART MECHANICAL PLATED HOLE 225 PAD 130 HOLE #4	PT1998 MP225H130	MP225H130
4	MP1 MP3-5	NON-PART	NON-PART, MECHANICAL PLATED HOLE, 300 PAD, 156 HOLE, #6	PT1045 MP300H156	MP300H156
6	J1-2 J4-6 J11	32-0204	CON, PLUG, XLR, R/A, PCA A SERIES	PT1218 P320204	XLRM-1
1	Q1	70-1035	XSTR, 2N44402, PNP, SIGNAL, TO-92, AMMO	PT1527 Q2N4402	TO92(EBC)-V
10	Q2-3 Q8-15	70-1058	XSTR, 2N3904, NPN, SOT-23, T&R	PT1203 Q2N3904-S	SOT-23
15	R7 R11 R13 R35 R37 R91 R200 R222 R277 R289 R335 R338-339 R341-342	50-1300	RES 0 5% 1/16W SM 0603 TA	PT2508 R0-B5-0603	0603
6	R8 R10 R12 R58-59 R295	OMIT	OMIT RES 0 5% 1/16W SM 0603 TA (50-1300)	PT2509 R0-B5-0603O	0603
7	R157-158 R167-168 R170-172	50-0317	RES 0 5% 1/4W CF RR TA	PT1008 R0-E5-R	RRA200
1	R160	OMIT	OMIT RES 0 5% 1/4W CF RR TA (50-0317)	PT1596 R0-E5-RO	RRA200
2	R163-164	52-1340	RES 10.7K 1% 1/16W SM 0603 TA	PT2592 R10.7KB1-0603	0603
5	R39 R54 R183-184 R312	52-1304	RES 100 1% 1/16W SM 0603 TA	PT2512 R100-B1-0603	0603
4	R103-104 R253-254	52-1360	RES 100K 1% 1/16W SM 0603 TA	PT2613 R100KB1-0603	0603
43	R1-4 R6 R14 R16 R20 R23 R28-29 R36 R49 R56 R112 R118 R124 R130 R136 R143 R159 R185-188 R192-193 R197 R199 R201 R209	52-1338	RES 10K 1% 1/16W SM 0603 TA	PT2584 R10KB1-0603	0603

	R212-213 R218-219 R223 R236 R244 R266 R334 R340 R383-384							
12	R34 R57 R64-65 R72-73 R80-81 R88-89 R281-282	52-1342	RES 13.3K 1% 1/16W SM 0603 TA			PT2594 R13.3KB1-0603	0603	
1	R267	52-1362	RES 150K 1% 1/16W SM 0603 TA			PT2615 R150KB1-0603	0603	
1	R153	52-1344	RES 15K 1% 1/16W SM 0603 TA			PT2596 R15KB1-0603	0603	
4	R92 R149 R233 R235	52-1305	RES 169 1% 1/16W SM 0603 TA			PT2513 R169-B1-0603	0603	
11	R156 R173-174 R210-211 R269-274	52-1313	RES 1K 1% 1/16W SM 0603 TA			PT2550 R1KB1-0603	0603	
1	R336	52-1372	RES 1M 1% 1/16W SM 0603 TA			PT2625 R1MB1-0603	0603	
4	R74 R90 R226 R232	52-1317	RES 2.21K 1% 1/16W SM 0603 TA			PT2555 R2.21KB1-0603	0603	
10	R24 R66 R83 R109 R121 R133 R146 R190 R231 R247	52-1319	RES 2.67K 1% 1/16W SM 0603 TA			PT2557 R2.67KB1-0603	0603	
2	R175 R337	52-1300	RES 20 1% 1/16W SM 0603 TA			PT2507 R20-B1-0603	0603	
16	R38 R43 R176-182 R189 R191 R194-196 R332-333	52-1306	RES 200 1% 1/16W SM 0603 TA			PT2514 R200-B1-0603	0603	
8	R46-48 R94-96 R224 R228	52-1346	RES 20K 1% 1/16W SM 0603 TA			PT2598 R20KB1-0603	0603	
1	R255	52-1364	RES 221K 1% 1/16W SM 0603 TA			PT2617 R221KB1-0603	0603	
13	R40 R75 R82 R98-100 R154-155 R221 R229-230 R241 R262	52-1316	RES 2K 1% 1/16W SM 0603 TA			PT2553 R2KB1-0603	0603	
12	R5 R26 R50 R110 R113 R122 R125 R134 R137 R147 R237 R248	52-1322	RES 3.16K 1% 1/16W SM 0603 TA			PT2560 R3.16KB1-0603	0603	
6	R41 R111 R123 R135 R148 R249	52-1323	RES 3.24K 1% 1/16W SM 0603 TA			PT2561 R3.24KB1-0603	0603	
26	R25 R31-33 R60-63 R68-71 R76-79 R84-87 R105 R165 R321-322 R357-358	52-1324	RES 3.32K 1% 1/16W SM 0603 TA			PT2562 R3.32KB1-0603	0603	
50	R9 R67 R161-162 R203-204 R234 R242 R251-252 R256-257 R259-260 R264-265 R279-280 R283-284 R287-288 R291-294 R297-300 R302-305 R307-310 R313-316 R318-320 R323 R325-328	52-1307	RES 332 1% 1/16W SM 0603 TA			PT2543 R332-B1-0603	0603	
6	R101-102 R152 R261 R263 R275	50-1325	RES 33K 5% 1/16W SM 0603 TA			PT2589 R33KB5-0603	0603	
1	R169	52-1301	RES 39.2 1% 1/16W SM 0603 TA			PT2515 R39.2-B1-0603	0603	
1	R382	52-1355	RES 39.2K 1% 1/16W SM 0603 TA			PT2608 R39.2KB1-0603	0603	
13	R21-22 R107-108 R119-120 R131-132 R144-145 R245-246 R364	52-1327	RES 4.53K 1% 1/16W SM 0603 TA			PT2565 R4.53KB1-0603	0603	
1	R30	52-1368	RES 475K 1% 1/16W SM 0603 TA			PT2621 R475KB1-0603	0603	
2	R330-331	52-1356	RES 49.9K 1% 1/16W SM 0603 TA			PT2609 R49.9KB1-0603	0603	
17	R151 R198 R202 R250 R258 R278 R285-286 R290 R296 R301 R306 R311 R317 R324 R329 R365	52-1308	RES 499 1% 1/16W SM 0603 TA			PT2545 R499-B1-0603	0603	
6	R19 R55 R117 R129 R142 R243	52-1331	RES 5.76K 1% 1/16W SM 0603 TA			PT2576 R5.76KB1-0603	0603	
4	R97 R141 R225 R227	52-1357	RES 57.6K 1% 1/16W SM 0603 TA			PT2610 R57.6KB1-0603	0603	

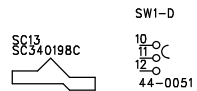
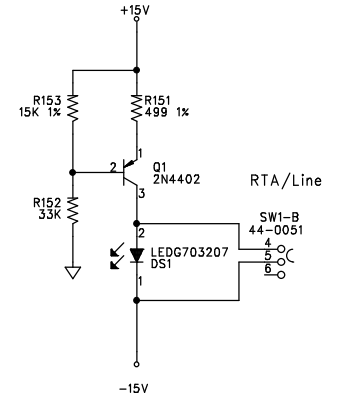
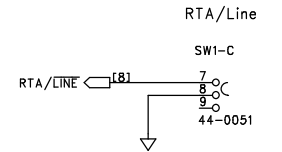
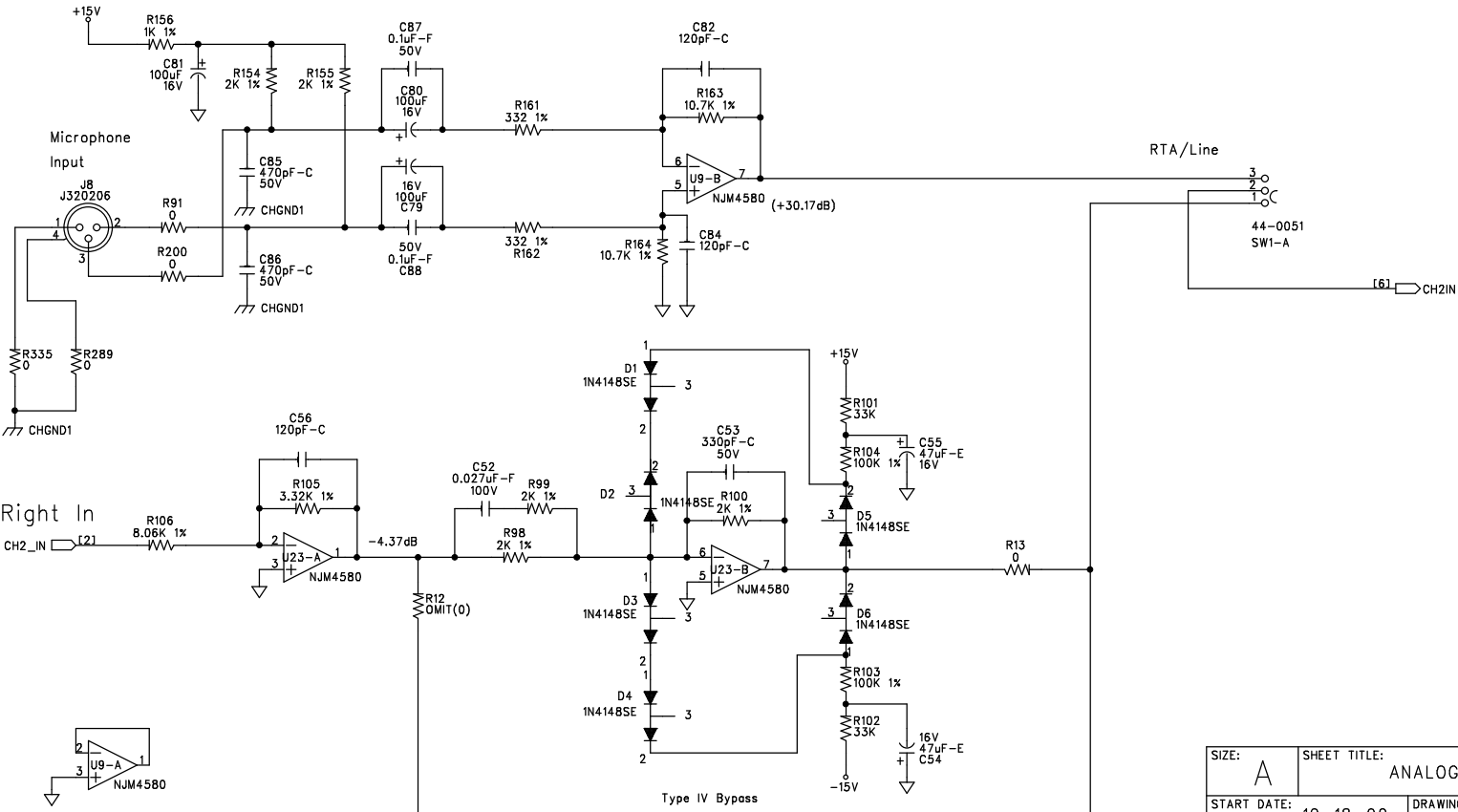
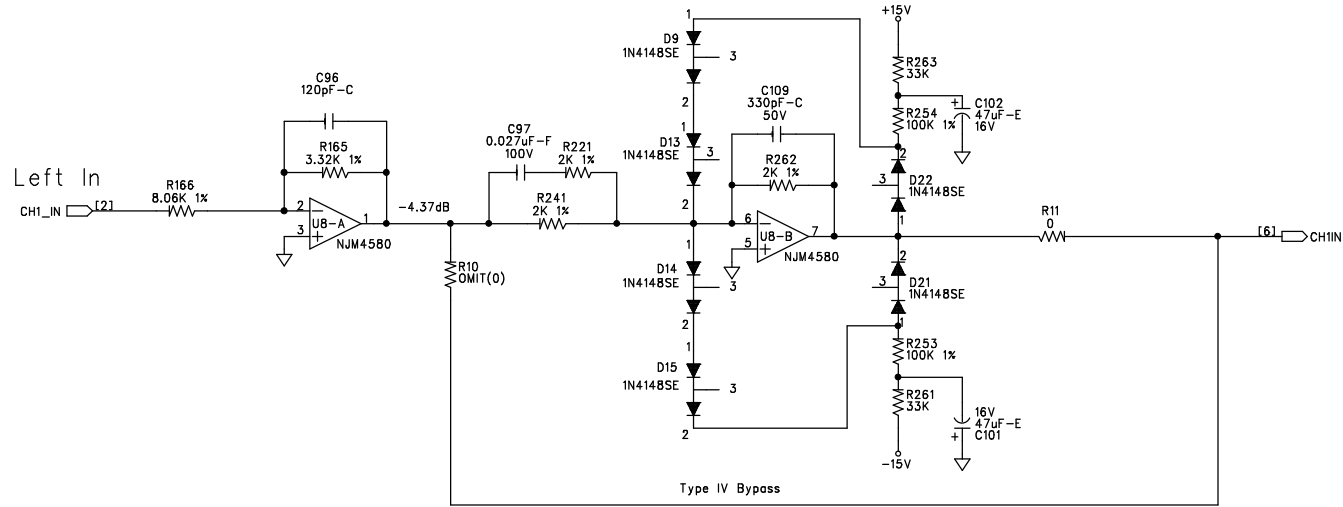
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11	R15 R27 R42 R44-45 R51 R93 R114 R126 R138 R238	52-1332	RES 6.04K 1% 1/16W SM 0603 TA		PT2577	R6.04KB1-0603	0603	
12	R17-18 R52-53 R115-116 R127-128 R139-140 R239-240	52-1303	RES 60.4 1% 1/16W SM 0603 TA		PT2511	R60.4-B1-0603	0603	
1	R268	52-1358	RES 63.4K 1% 1/16W SM 0603 TA		PT2611	R63.4KB1-0603	0603	
1	R220	52-1311	RES 681 1% 1/16W SM 0603 TA		PT2548	R681-B1-0603	0603	
9	R205-208 R214-217 R276	52-1335	RES 7.5K 1% 1/16W SM 0603 TA		PT2581	R7.5KB1-0603	0603	
2	R106 R166	52-1336	RES 8.06K 1% 1/16W SM 0603 TA		PT2582	R8.06KB1-0603	0603	
1	P6	38-0001	RBN CBL 20 COND. 0.1", 4.25"		PT2772	RC20-380001	RC380001	
2	SC14-15	34-0125	SWITCH CAP, BLACK, ROUND		PT1354	SC340125	SC340125-FPE	
1	SC13	34-0198-C	SWITCH CAP LIGHT PIPE SNGL LED HORZ		PT2504	SC340198C	SC340198C	
12	SC1-12	34-0199-A	SWITCH CAP dbx LIGHTED		PT2024	SC340199A	PCBNULL	
1	SW2	44-0050	SWITCH DPDT MINI IN-OUT 6 PIN E-SWITCH		PT1256	SW440050	SW440050	
2	SW1 SW16	44-0051	SWITCH, 4PDT, MINI IN-OUT, 12 PIN, E-SWITCH		PT1257	SW440051	SW440051	
1	SW15	44-0119	ENCODER 20mm D SHAFT 30 POS W/SWITCH VERT MOUNT		PT1890	SW440119	SW440119	
12	SW3-7 SW9-14 SW17	44-0185	SWITCH, SPST, LITE TOUCH, MINI, W/ PROJECTED PLUNGER SMT		PT1962	SW440185	SW44PTACT-3	
7	TP1-2 TP4 TP8-10 TP12	NON-PART	NON-PART, TEST POINT, ENGINEERING PROBE POINT		PT1653	TESTPOINT	TESTPOINTSM	
1	U28	70-4014	V-REG, 7805, +5V, 1.5 AMP, TO-220		PT1591	U7805	TO220(IGO)-V	
1	U10	70-4123	V-REG, 7815, +15V, 1 AMP, TO-220		PT1592	U7815	TO220(IGO)-V	
1	U12	70-4124	V-REG, 7915, -15V, 1 AMP, TO-220		PT1594	U7915	TO220(GIO)-V	
1	U7	72-0046	IC 25AA640 64K SERIAL EEPROM TA		PT2774	U25AA260	SO8	
1	U5	72-6318	IC 32K x 8 SRAM 15ns SOJ28		PT2294	U32K8S15-J	SOJ28-300	
6	U2 U33 U36 U38 U42 U51	72-1439	IC, 5532MD, DUAL BIPOLAR OPAMP, SO8-200		PT1306	U5532MD-S	SO8-200	
2	U25 U48	72-5426	IC, 74AC04, HEX INVERTER, SO14, T&R		PT1325	U74AC04-S	SO14	
1	U21	72-5437	IC 74VHC273 FLIP-FLOP OCTAL-D SO20W T&R		PT1909	U74VHC273-S	SO20W	
1	U17	72-0045	IC 74VHC373 OCTAL LATCH SO20W		PT2771	U74VHC373-S	SO20W	
1	U44	72-0044	IC 74VHC4040 12 BIT RIPPLE COUNTER SO16		PT2759	U74VHC4040-S	SO16	
1	U20	72-6316	IC 78L32P-24 8 BIT MICROCONTROLLER 3.3V		PT2316	U78L32P-24	PLCC-44	
1	U11	72-1485	IC AK4356 192kHz 24 BIT 6 CHANNEL DAC		PT2717	UAK4356-Q	QFP44-10X10	
1	U26	72-1266	IC, AK5383, 96 kHz, DUAL 24BIT ADC, SO28W		PT1557	UAK5383-S	SO28W	
1	U1	72-6305	IC DSP56367 DSP 150MHZ QFP144-20X20		PT2452	UDSP56367-Q	QFP144-20X20	
1	U24	70-4021	V-REG, LD1117V33, +3.3V, 0.8 AMP, TO-220, BULK		PT1795	ULD1117V33	TO220(GOI)-V	
1	U14	70-0063	V-REG LM2575S-ADJ SWITCHING REG 1A TO-263(5)		PT2739	ULM2575S-ADJ	TO-263(5)	
1	U16	70-4007	V-REG, LM317T, ADJ REG, 1.5 AMP, TO-220		PT1785	ULM317T	TO220(AOI)-V	
2	U4 U18	72-5434	IC NC7SZ125 TINYLOGIC BUFFER SOT23-5 TA		PT1881	UNC7SZ125-S	SOT23-5	
1	U3	72-6308	IC NCP304 VOLTAGE DETECTOR SC-82AB		PT2393	UNCP304	SC-82AB	
11	U8-9 U15 U19 U22-23 U27 U60-62 U70	72-1480	IC NJM4580 DUAL OP-AMP SO8		PT1374	UNJM4580-S	SO8	
1	U13	72-0042-00V1	IC CPLD ispLSI2064VE dbx Driverack PA V1		PT2785	UP720042	QFP100-14X14	
1	U6	72-5539-03V1	IC AM29LV040B 512K x 8 FLASH MEMORY dbx Driverack PA V1		PT2292	UP725539	PLCC/R-32	
1	Y3	76-0202	XTAL 24.000MHz METAL CAN SURFACE MOUNT T&R		PT1928	Y24.000M760202	XTAL2-V	
1	X7	76-0006	XTAL 24.576MHz SMT CX16F/CS49G PKG		PT2713	Y24.576M760006	YCX16F/CX49G	

SC15
SC340125

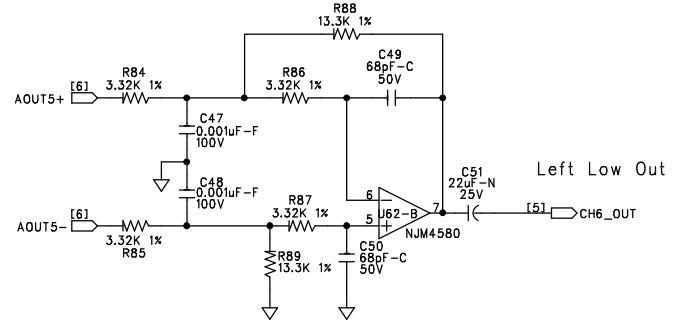
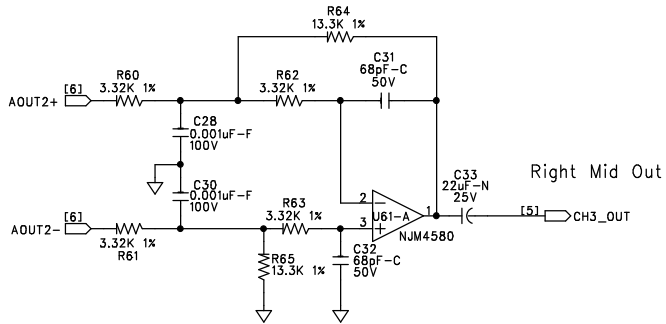
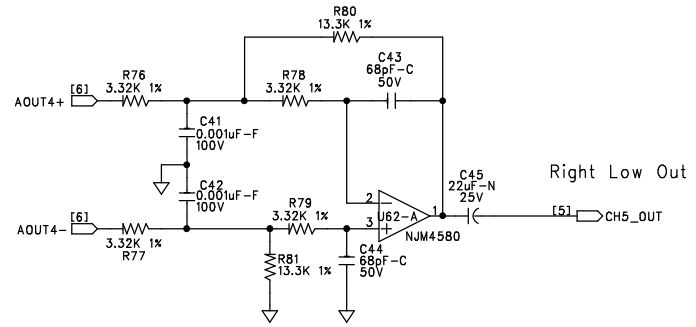
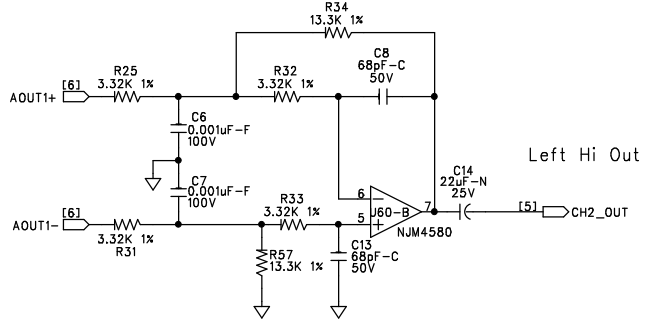
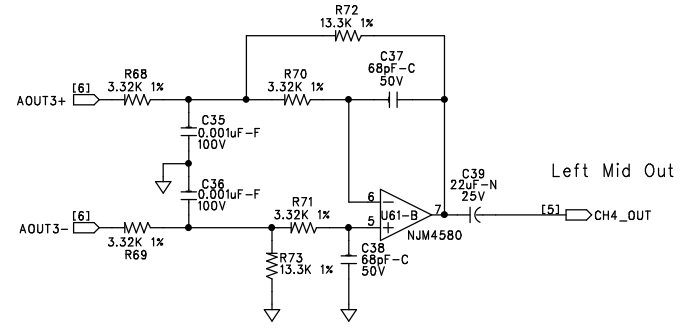
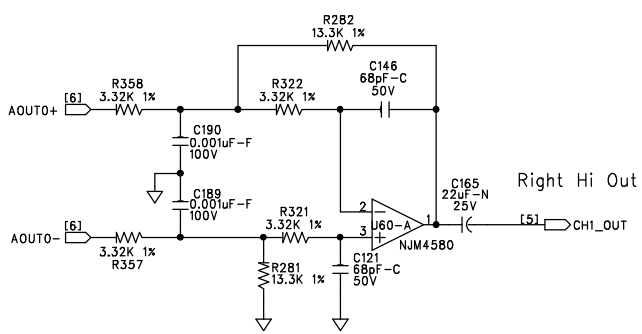
SC14
SC340125



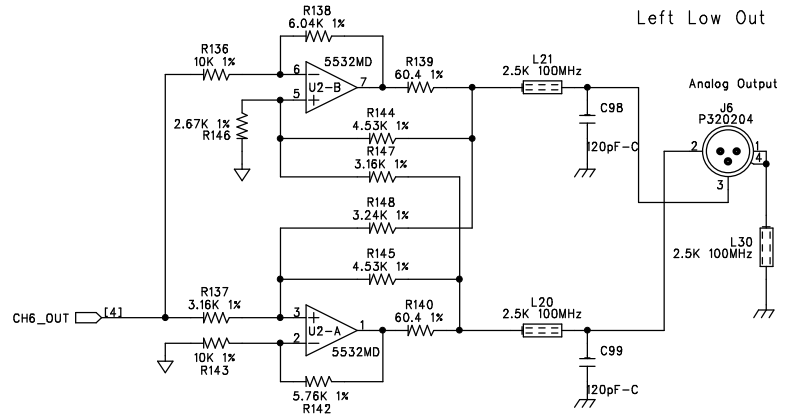
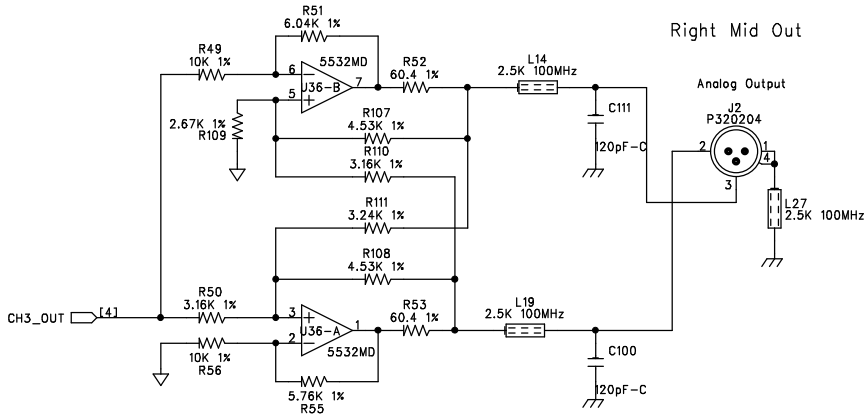
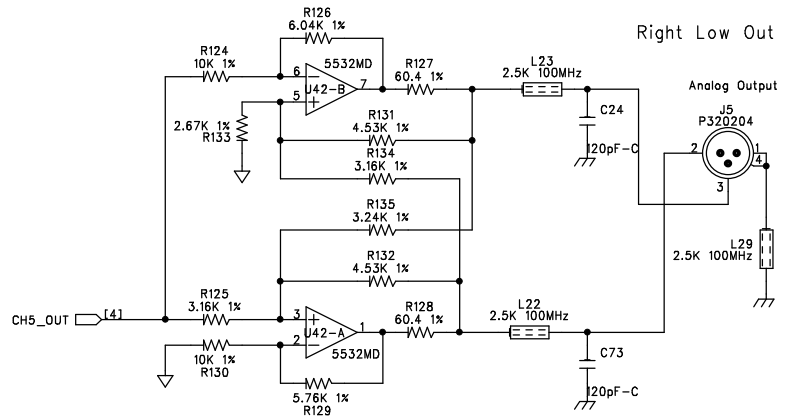
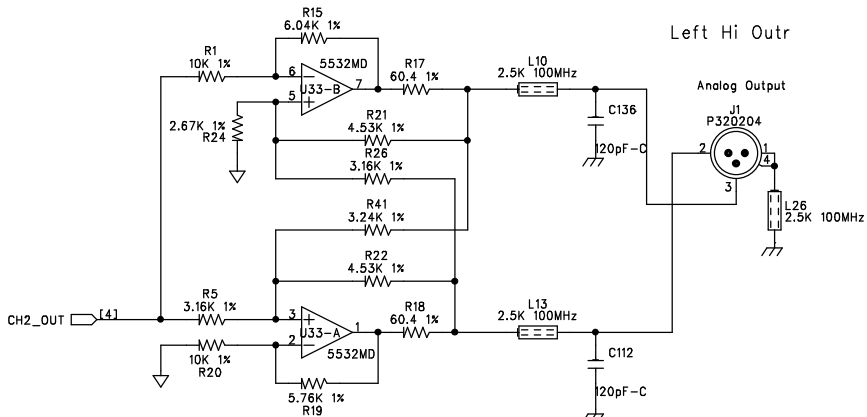
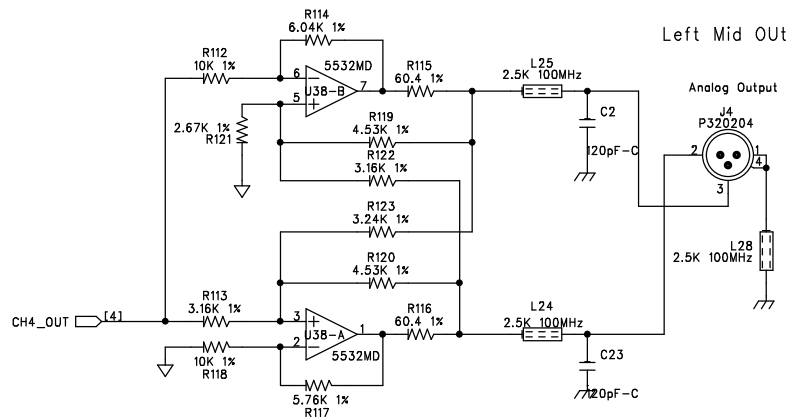
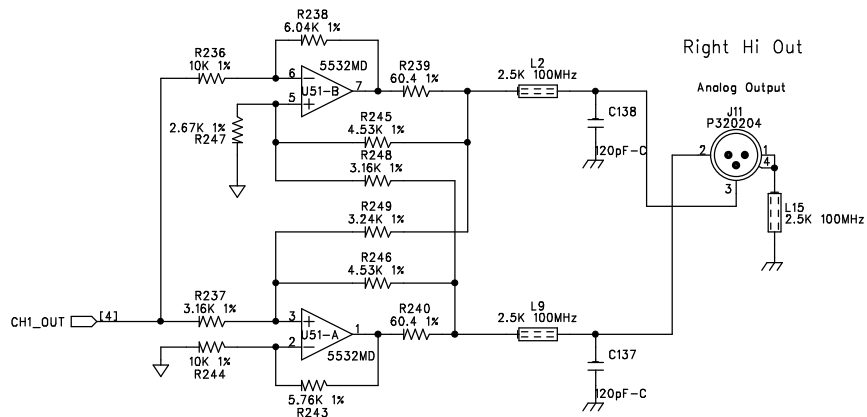
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START DATE: 10-18-02	DRAWING NO: 05-1790	SHEET: 2 OF 15



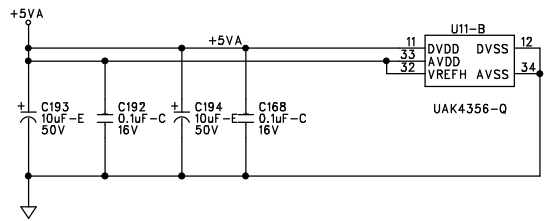
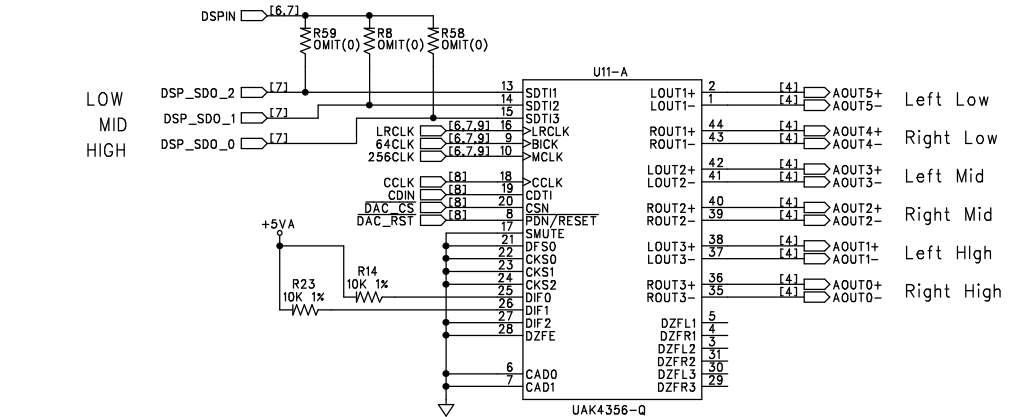
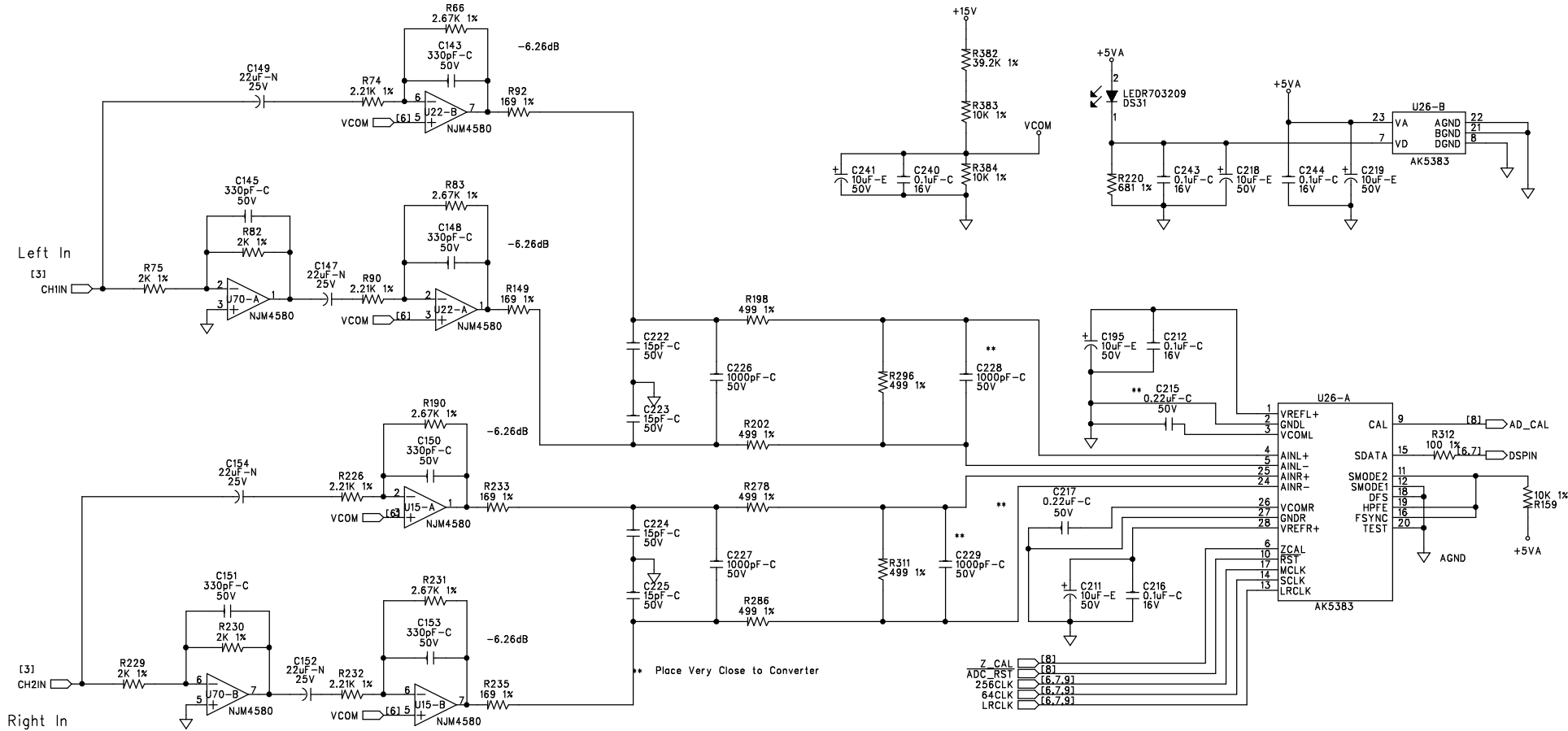
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START DATE: 10-18-02	DRAWING NO: 05-1790	SHEET: 3 OF 15



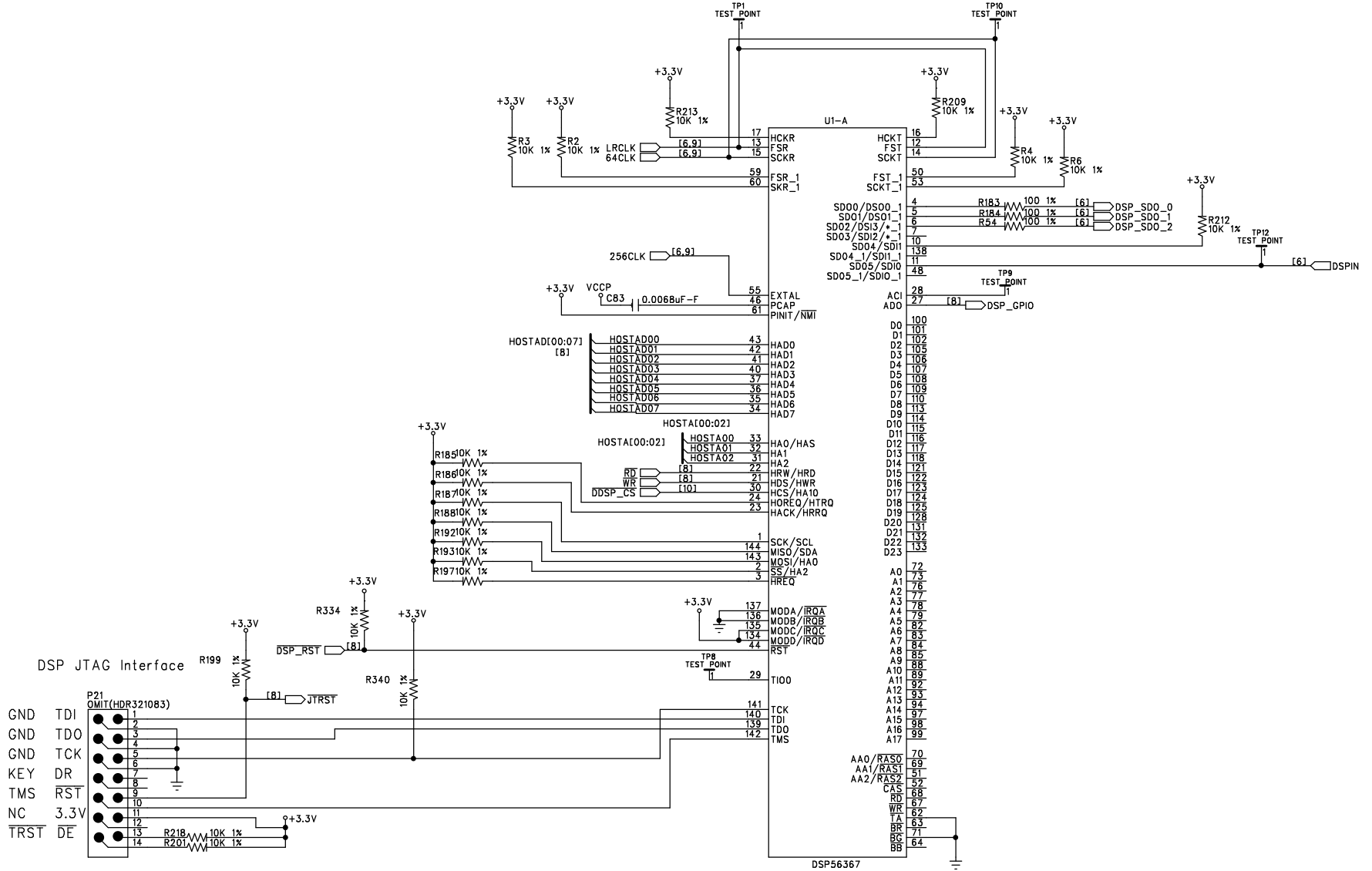
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START DATE: 10-18-02	DRAWING NO: 05-1790	SHEET: 4 OF 15

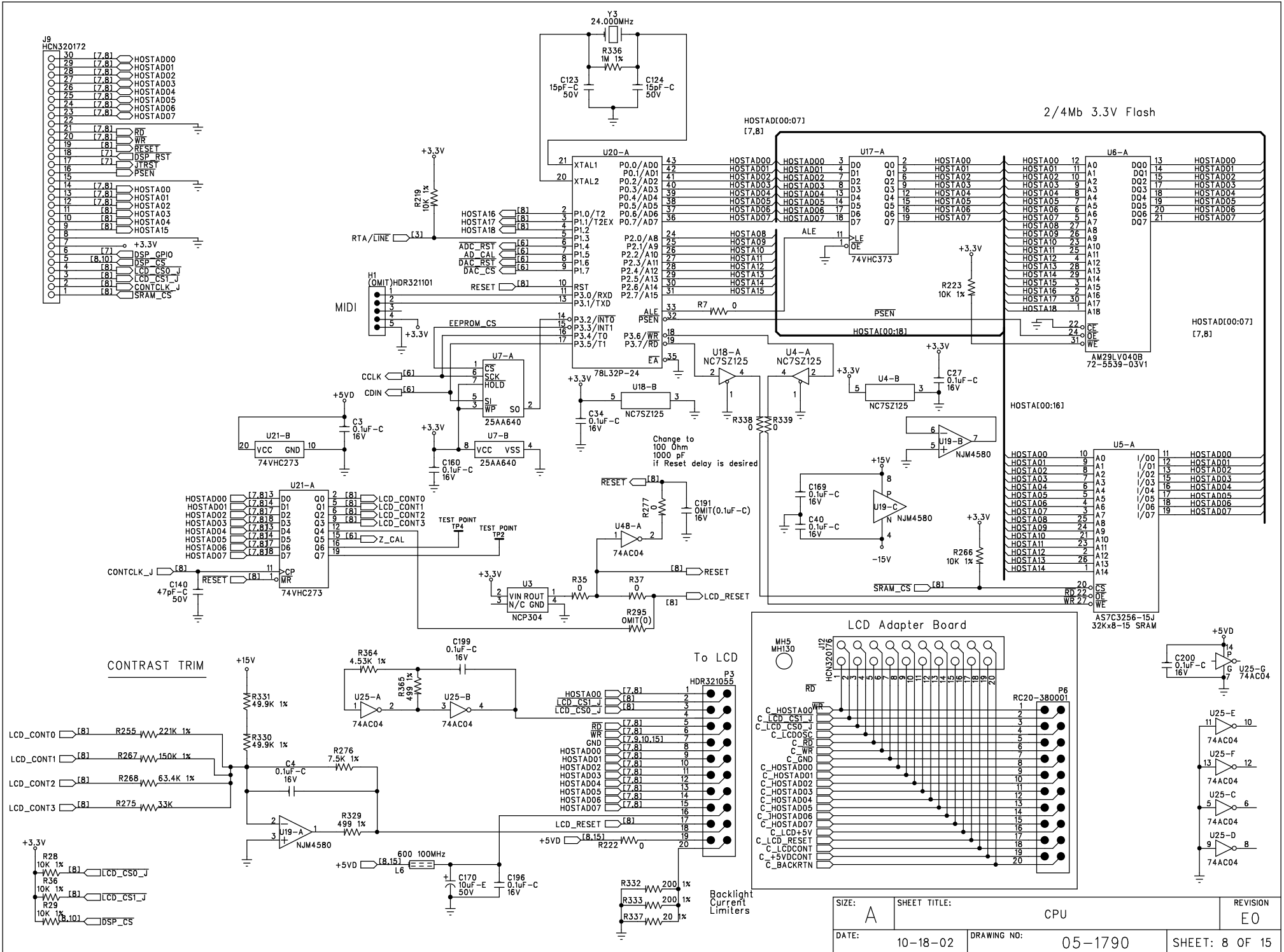


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DATE: 10-18-02	DRAWING NO: 05-1790	SHEET: 5 OF 15



SIZE: A	SHEET TITLE: CONVERTERS	REVISION: E0
DATE: 10-18-02	DRAWING NO: 05-1790	SHEET: 6 OF 15

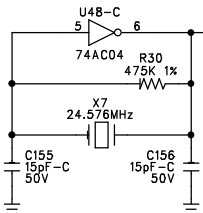




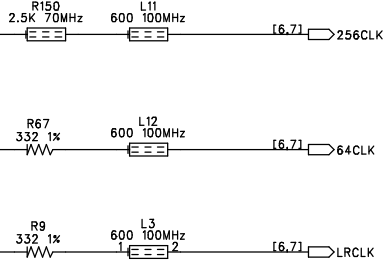
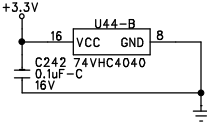
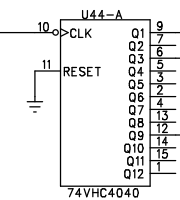
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DATE: 10-18-02	DRAWING NO: 05-1790	SHEET: 8 OF 15

Divider/Clock Tree

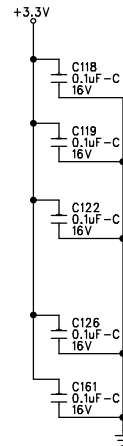
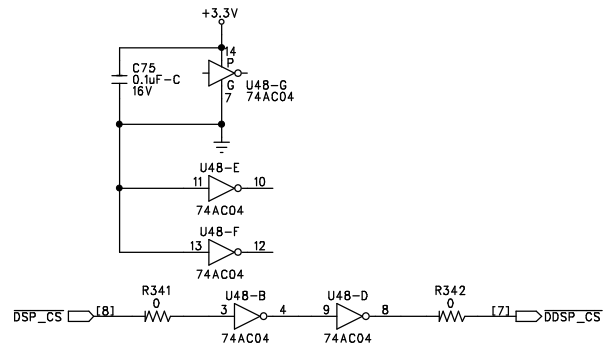
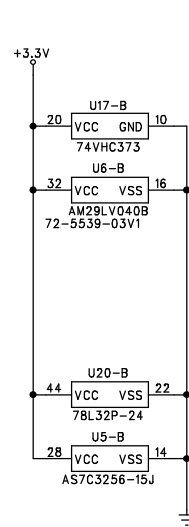
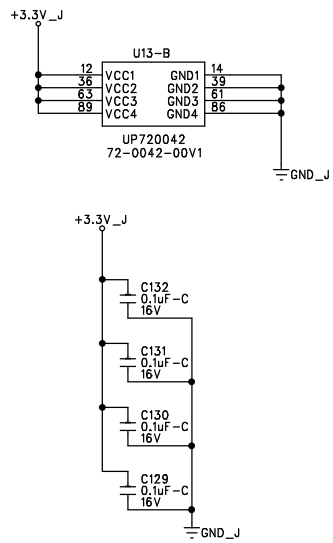
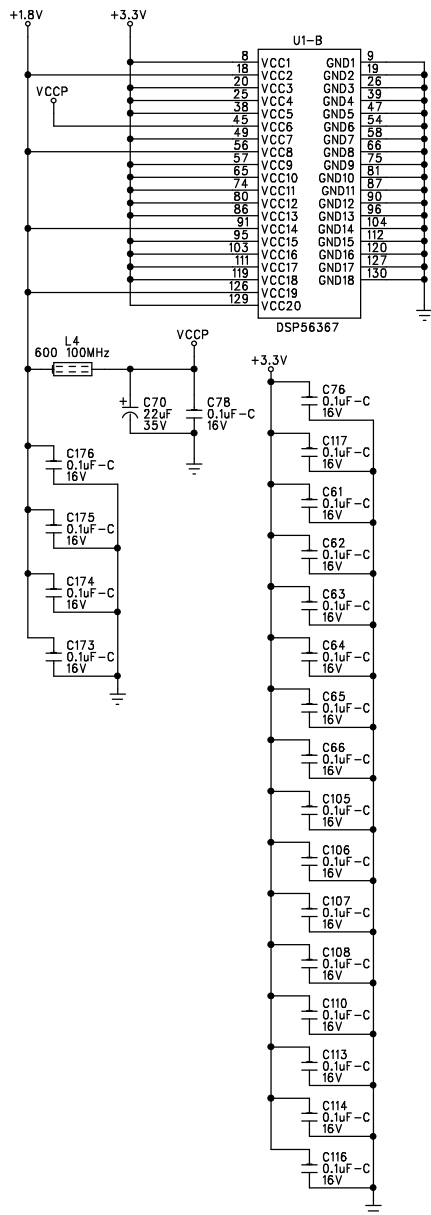
x512fs Crystal Oscillator
24.576 MHz



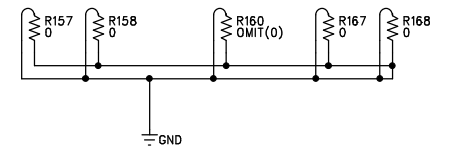
Change to 74VHC4040



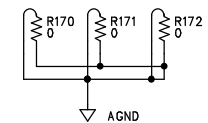
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DATE: 10-18-02	DRAWING NO: 05-1790	SHEET: 9 OF 15	



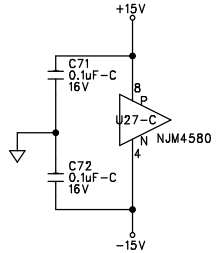
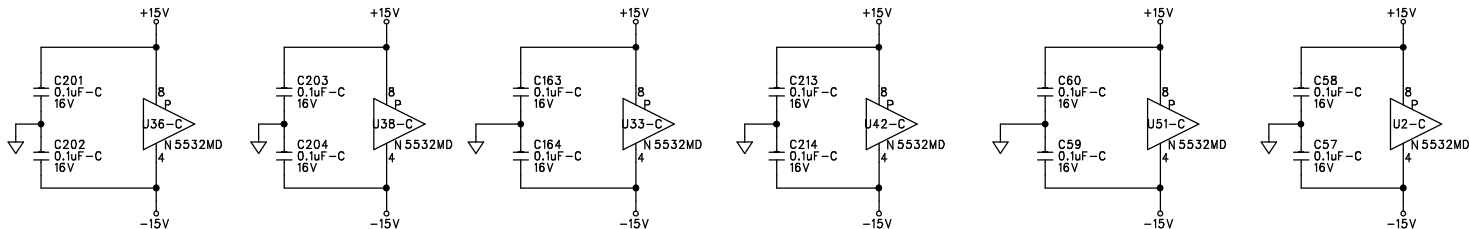
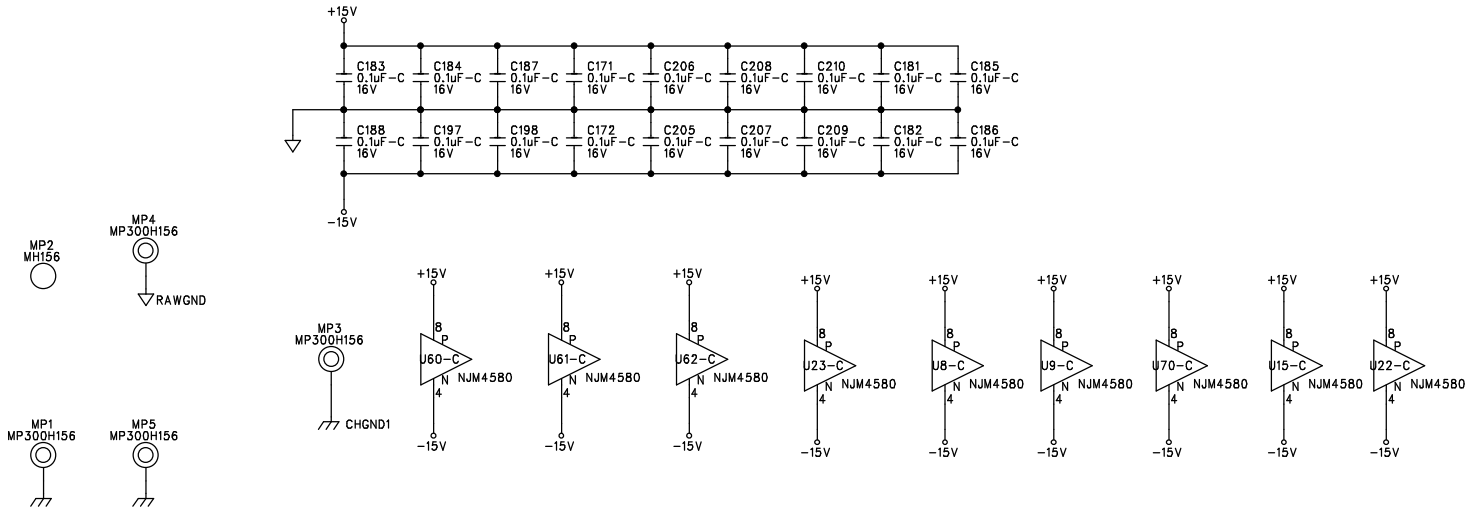
Digital Ground Test Points



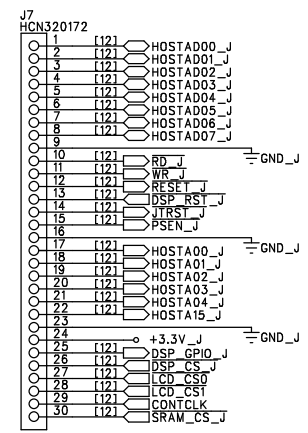
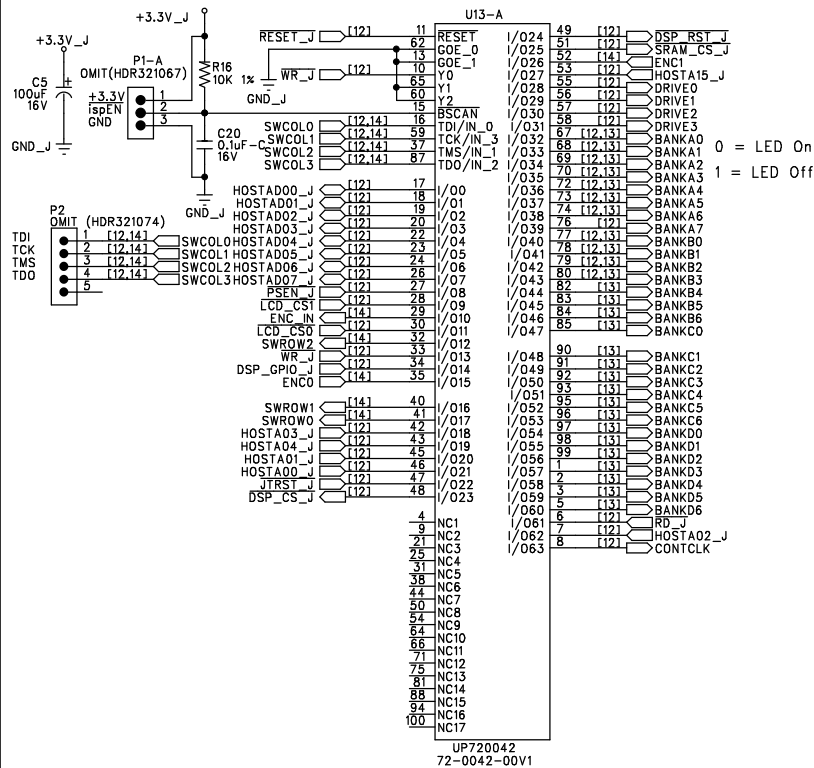
Analog Ground Test Points



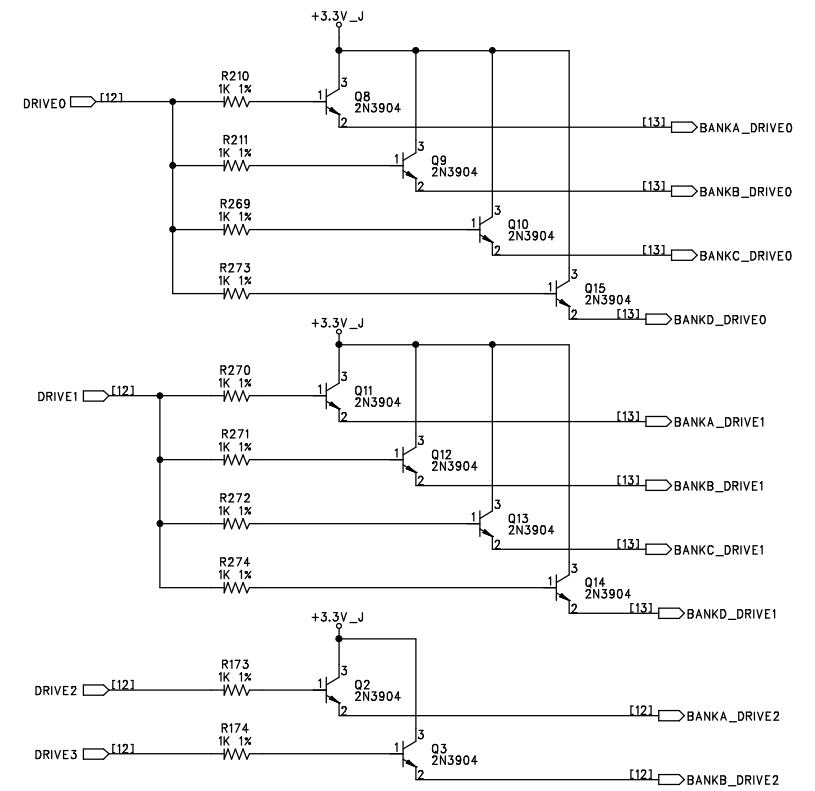
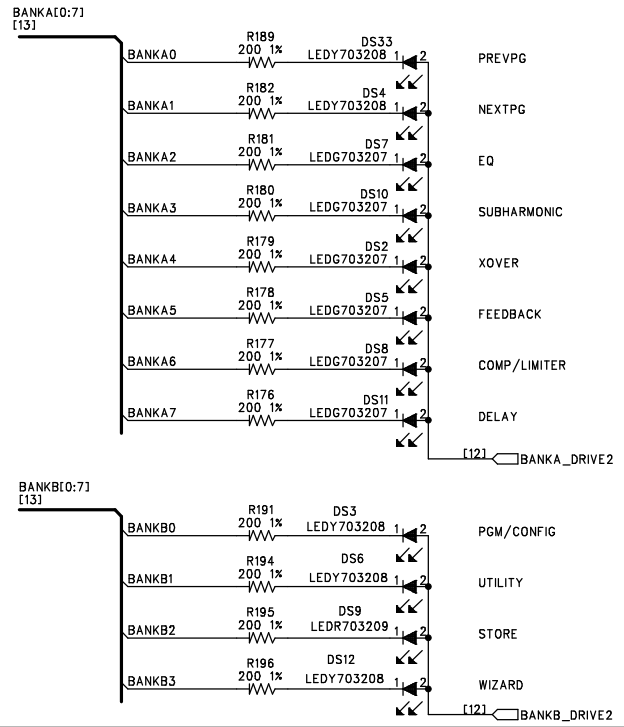
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DATE: 10-18-02	DRAWING NO: 05-1790	SHEET: 10 OF 15



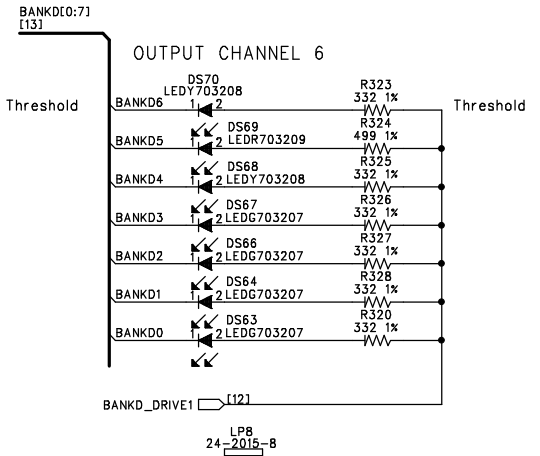
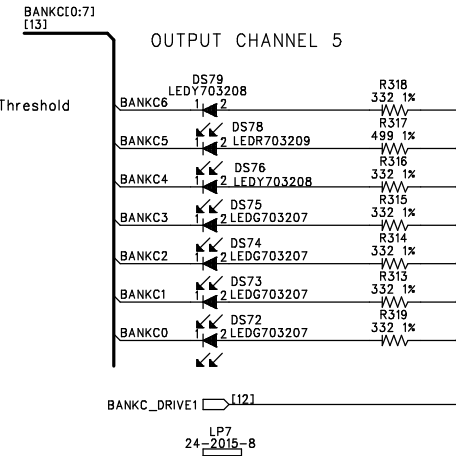
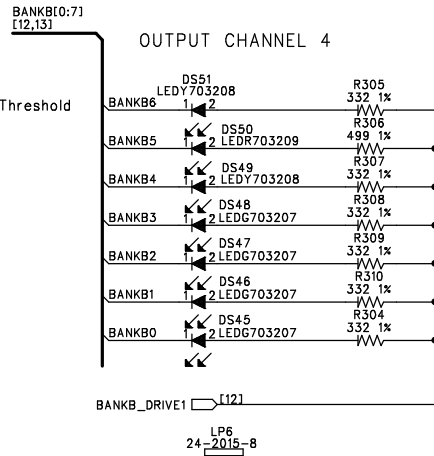
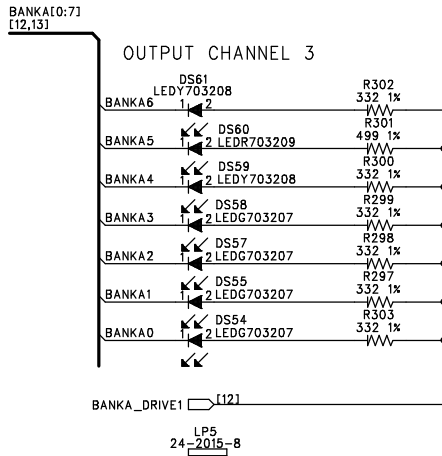
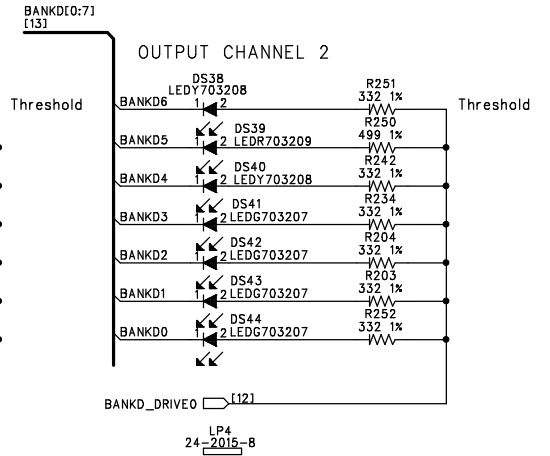
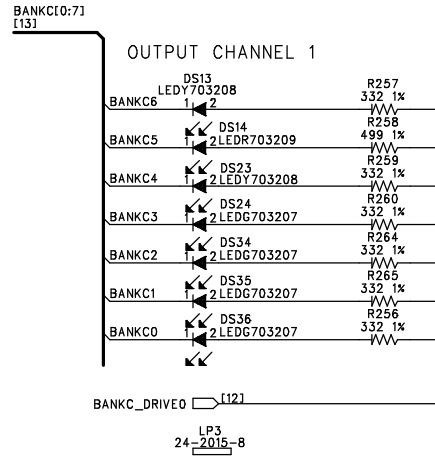
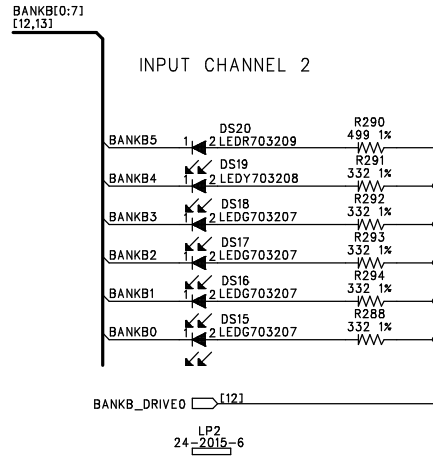
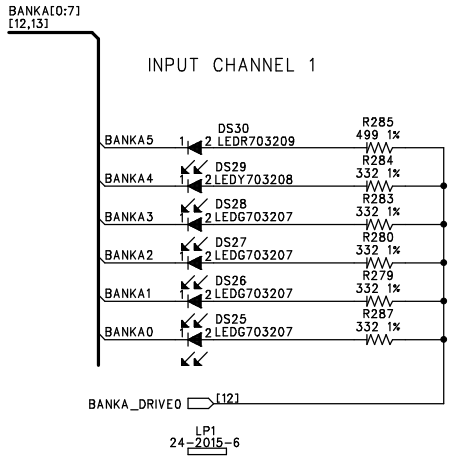
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START DATE: 10-18-02	DRAWING NO: 05-1790	SHEET: 11 OF 15

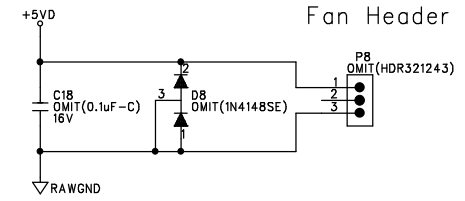
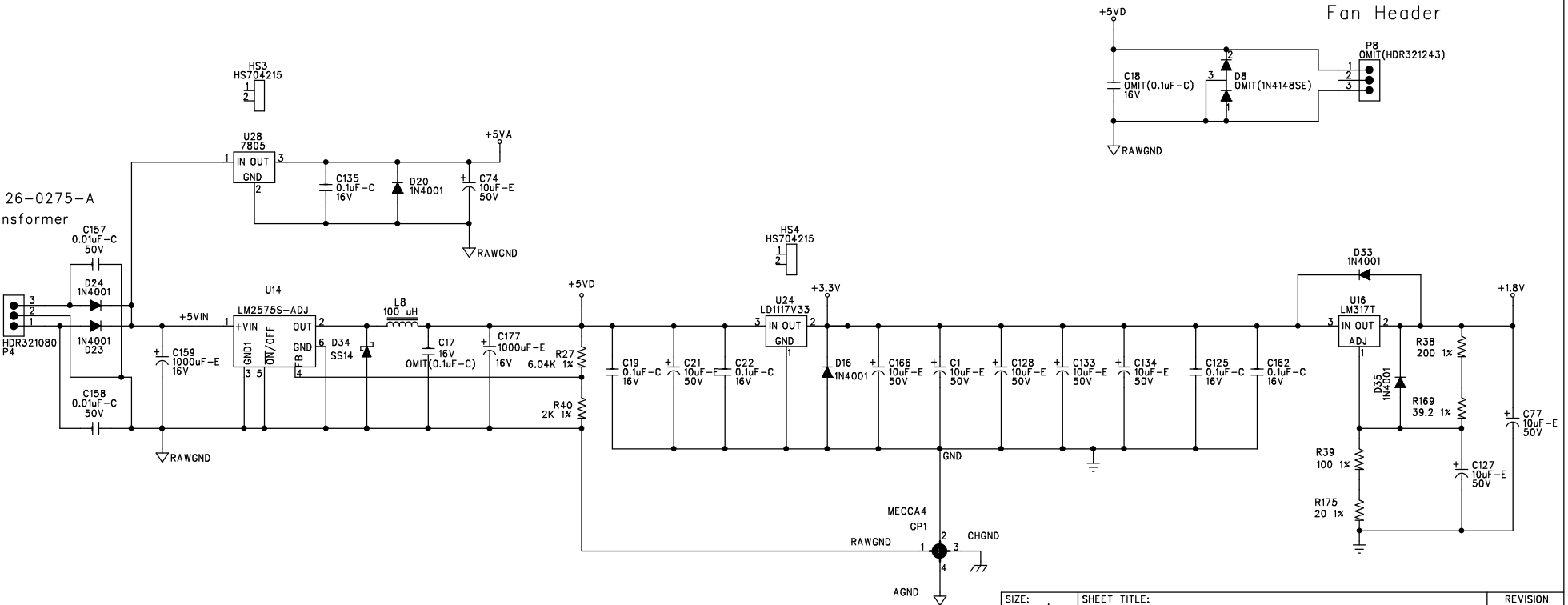
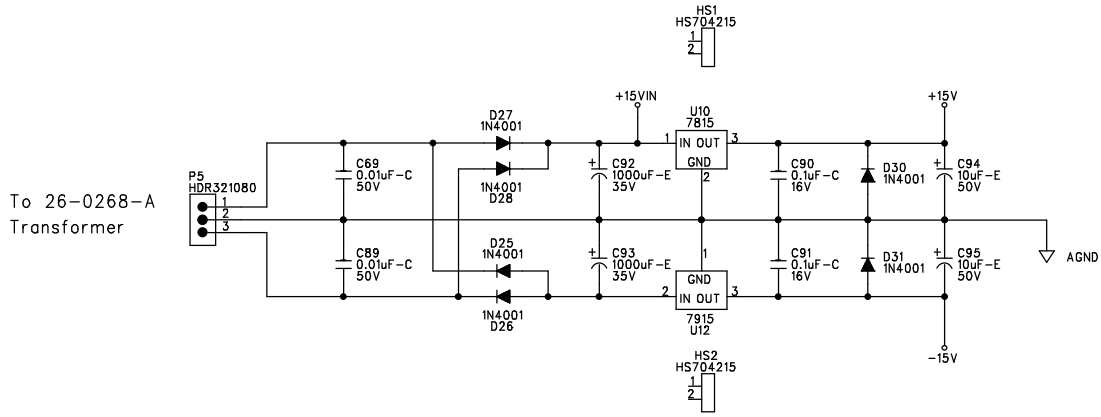


UP720042
72-0042-00V1



SIZE: A	SHEET TITLE: FRONT PANEL - LED/LCD CONTROL	REVISION: E0
DATE: 10-18-02	DRAWING NO: 05-1790	SHEET: 12 OF 15





SIZE: A	SHEET TITLE: POWER SUPPLY	REVISION: E0
DATE: 10-18-02	DRAWING NO: 05-1790	SHEET: 15 OF 15

Bill Of Materials for 051790E0.sch on Thu Oct 24 09:16:18 2002

Qty	Reference	HMG#	Description	Audit	Schematic Part	PCB Decal
1	PCB1	80-1790	PCB 80-1790 dbx DRIVERACK PA	PT2044	80XXXXXX	BARCODE
14	A7-18 A20 A22	NON-PART	NON-PART, PCB ONLY, BREAKOFF PART	PT1481	BRKOFF	BRKOFF
12	C6-7 C28 C30 C35-36 C41-42 C47-48 C189-190	56-0000	CAP 0.001uF FILM PTR 100V 5% AF TA	PT1629	C0.001UF100JR	RFCC200
1	C83	56-0005	CAP 0.0068uF FILM PTR 100V 5% RF TA	PT1307	C0.0068UF100JR	RFDC200
4	C69 C89 C157-158	62-1311	CAP 0.01uF CER 50V 20% Y5V 0603 TA	PT2665	C0.01UC50M0603	0603
2	C52 C97	56-0033	CAP 0.027uF FILM PTR 100V 5% RF TA	PT1282	C0.027UF100JR	RFEF200
91	C3-4 C19-20 C22 C27 C34 C40 C57-68 C71-72 C75-76 C78 C90-91 C105-108 C110 C113-114 C116-119 C122 C125-126 C129-132 C135 C160-164 C168-169 C171-176 C181-188 C192 C196-210 C212-214 C216 C240 C242-244	62-1310	CAP 0.1uF CER 16V 20% Y5V 0603 TA	PT2696	C0.1UC16M0603	0603
3	C17-18 C191	OMIT	OMIT CAP 0.1uF CER 16V 20% Y5V 0603 TA (62-1310)	PT2711	C0.1UC16M0603O	0603
2	C87-88	56-0012	CAP 0.1uF FILM MTPT 50V 5% RF TA	PT1200	C0.1UF50JR	RFEC200
2	C215 C217	62-3209	CAP 0.22uF CER 50V 10% X7R 1206 TA	PT2271	C0.22UC50K1206	1206
4	C226-229	62-1308	CAP 1000pF CER 50V 20% Y5V 0603 TA	PT2651	C1000PC50M0603	0603
2	C159 C177	60-0064	CAP 1000uF EL 16V 20% GP 10x17R 5LL BK	PT1334	C1000UE16MR	REM200P
2	C92-93	60-1073	CAP 1000uF EL 35V 20% HT 13x25R 5LL BK	PT1971	C1000UE35MR1	REQ200P
4	C5 C79-81	60-0201	CAP 100uF EL 16V 20% GP 6x8R 5LS TA	PT1378	C100UE16MR	REG200P
19	C1 C21 C74 C77 C94-95 C127-128 C133-134 C166 C170 C193-195 C211 C218-219 C241	60-1074	CAP 10uF EL 50V 20% HT 5x11R 5LS TA	PT1972	C10UE50MR1	REE200P
20	C2 C11-12 C23-26 C56 C73 C82 C84 C96 C98-100 C111-112 C136-138	62-1304	CAP 120pF CER 50V 5% NPO 0603 TA	PT2655	C120PC50J0603	0603
8	C123-124 C155-156 C222-225	62-1300	CAP 15pF CER 50V 5% NPO 0603 TA	PT2659	C15PC50J0603	0603
1	C70	60-0010	CAP 22uF EL 35V 20% GP 5x11R 5LS TA	PT2110	C22UE35MR	REE200P
10	C14 C33 C39 C45 C51 C147 C149 C152 C154 C165	60-0402	CAP 22uF ELNP 25V 20% GP 6x11R 5LS TA	PT1084	C22UN25MR	REG200
8	C53 C109 C143 C145 C148 C150-151 C153	62-1306	CAP 330pF CER 50V 10% X7R 0603 TA	PT2653	C330PC50K0603	0603
8	C9-10 C15-16 C29 C85-86 C115	62-1307	CAP 470pF CER 50V 10% X7R 0603 TA	PT2652	C470PC50K0603	0603
1	C140	62-1302	CAP 47pF CER 50V 5% NPO 0603 TA	PT2657	C47PC50J0603	0603
4	C54-55 C101-102	60-0054-01	CAP 47uF EL 16V 20% GP 5x11R 5LS TA	PT1108	C47UE16MR	REE200P
12	C8 C13 C31-32 C37-38 C43-44 C49-50 C121 C146	62-1303	CAP 68pF CER 50V 5% NPO 0603 TA	PT2656	C68PC50J0603	0603
12	D16 D20 D23-28 D30-31 D33 D35	70-0000	DIO 1N4001 50V 1 AMP AMMO TA	PT1003	D1N4001-R	RDB200
25	D1-7 D9 D13-15 D21-22 D37-48	70-0113	DIO MMBD4148SE DUAL 75V 600mA SOT-23 TA	PT1326	D1N4148SE-S	SOT-23
1	D8	OMIT	OMIT DIO MMBD4148SE DUAL 75V 600mA SOT-23 TA (70-0113)	PT1327	D1N4148SE-S-O	SOT-23
1	D34	70-0147	DIO SCHOTTKY 1A SS14 DO-214AC/SMA	PT1877	DSS14S	DO-214AC/SMA
2	A4-5	NON-PART	NON-PART, FIDUCIAL, TARGET FOR AUTO INSERTION	PT1271	FIDUCIAL	FIDUCIAL
4	A1-3 A6	NON-PART	NON-PART FIDUCIAL TARGET FOR AI AND XRAY	PT2796	FIDUCIAL-XRAY	FIDUCIAL-XRAY
2	J7 J9	32-0172	HCN CONN 30 PIN .5 MM CNTS 1X30 FML RA	PT2724	HCN320172	HC320172
1	J12	32-0176	HCN CONN 20 PIN FEM VRT MNT SMT	PT2773	HCN320176	HC102V079050FS
1	P3	32-1055	HDR, 20 PIN, 0.1" SPC, 2 X 10, VERT, MALE	PT1340	HDR321055	HC102
2	P4-5	32-1080	HDR, 3 PIN, 0.1" SPC, 1 X 3, LCK, R/A, MALE	PT1073	HDR321080	HC3L
1	P1-A	OMIT	OMIT HDR 3 PIN 0.1" SPC 1 X 3 VERT MALE CUT FROM 14 PIN (32-1067)	PT2703	HDR321067-O	HC31
1	P2	OMIT	OMIT HDR 5 PIN 0.1" SPC 1 X 5 VERT MALE	PT2788	HDR321074-O	HC51M
1	P21	OMIT	OMIT HDR 14 PIN 0.1" SPC 2 X 7 VERT MALE (32-1083)	PT2127	HDR321083-O	HC72
1	H1	OMIT	OMIT, HDR, 5 PN, 0.079" SP, 1 X 5, 0.020" PS LK SD PO VT MA (32-1101)	PT1825	HDR321101-O	HC579LSPM
1	P8	OMIT	OMIT HDR 3 PIN .098 SPC 3X1 SHROUDED VERTICAL MT. (32-1243)	PT2795	HDR321243-O	HC31V98SP

4	HS1-4	70-4215	HEATSINK, TO-220, VERT	PT1339 HS704215	HS704215
3	J3 J8 J10	32-0206	CON, JACK, XLR, R/A, PCA A SERIES	PT1219 J320206	XLRF-1
1	LBL1	30-0121	LABEL BARCODE AUTOINSERTABLE RAW	PT2790 LABEL300121	LABEL300121
39	DS1-2 DS5 DS7-8 DS10-11 DS15-18 DS24-28 DS34-36 DS41-48 DS54-55 DS57-58 DS63-64 DS66-67 DS72-75	70-3207	LED GREEN D1206 T&R	PT1902 LEDG703207	D1206
10	DS9 DS14 DS20 DS30-31 DS39 DS50 DS60 DS69 DS78	70-3209	LED RED D1206 T&R	PT1901 LEDR703209	D1206
19	DS3-4 DS6 DS12-13 DS19 DS23 DS29 DS33 DS38 DS40 DS49 DS51 DS59 DS61 DS68 DS70 DS76 DS79	70-3208	LED YELLOW D1206 T&R	PT1900 LEDY703208	D1206
9	L1 L3-4 L6 L11-12 L16-18	26-0000	IND FBD 600 OHM @ 100Hz 200mA 0603 TA	PT2728 LFB260000	0603
18	L2 L9-10 L13-15 L19-30	26-0001	IND FBD 2.5K OHM @ 100Hz, 50mA 0603 TA	PT2729 LFB260001	0603
1	R150	26-0217	IND FBD 2.5K OHM @ 70MHz 0805 TA	PT1261 LFB260217	0805
1	L8	26-0002	IND PWR 100uH 3A	PT2754 LI260002	UP3B
2	LP1-2	NON-PART	NON-PART 6 POS NOT INSTALLED UNTIL MECHANICAL ASSY(LIGHT PIPE)	PT1967 LP242015-6	LP242015-6
6	LP3-8	NON-PART	NON-PART 8 POS NOT INSTALLED UNTIL MECHANICAL ASSY(LIGHT PIPE)	PT1968 LP242015-8	LP242015-8
1	GP1	NON-PART	NON-PART MECCA GND/PWR TIE POINT 4 POS	PT2482 MECCA4	MECCA4
6	MH3-6 MH8 MH12	NON-PART	NON-PART, MOUNTING HOLE, 0.130" NON-PLATED, #4	PT1242 MH130	MH130
2	MH7 MP2	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	PT2794 MH156-TOOL	MH156-TOOL
1	MH10	NON-PART	NON-PART MECHANICAL PLATED HOLE 225 PAD 130 HOLE #4	PT1998 MP225H130	MP225H130
4	MP1 MP3-5	NON-PART	NON-PART, MECHANICAL PLATED HOLE, 300 PAD, 156 HOLE, #6	PT1045 MP300H156	MP300H156
6	J1-2 J4-6 J11	32-0204	CON, PLUG, XLR, R/A, PCA A SERIES	PT1218 P320204	XLRM-1
1	Q1	70-1035	XSTR, 2N44402, PNP, SIGNAL, TO-92, AMMO	PT1527 Q2N4402	TO92(EBC)-V
10	Q2-3 Q8-15	70-1058	XSTR, 2N3904, NPN, SOT-23, T&R	PT1203 Q2N3904-S	SOT-23
15	R7 R11 R13 R35 R37 R91 R200 R222 R277 R289 R335 R338-339 R341-342	50-1300	RES 0 5% 1/16W SM 0603 TA	PT2508 R0-B5-0603	0603
6	R8 R10 R12 R58-59 R295	OMIT	OMIT RES 0 5% 1/16W SM 0603 TA (50-1300)	PT2509 R0-B5-06030	0603
7	R157-158 R167-168 R170-172	50-0317	RES 0 5% 1/4W CF RR TA	PT1008 R0-E5-R	RRA200
1	R160	OMIT	OMIT RES 0 5% 1/4W CF RR TA (50-0317)	PT1596 R0-E5-RO	RRA200
2	R163-164	52-1340	RES 10.7K 1% 1/16W SM 0603 TA	PT2592 R10.7KB1-0603	0603
5	R39 R54 R183-184 R312	52-1304	RES 100 1% 1/16W SM 0603 TA	PT2512 R100-B1-0603	0603
4	R103-104 R253-254	52-1360	RES 100K 1% 1/16W SM 0603 TA	PT2613 R100KB1-0603	0603
43	R1-4 R6 R14 R16 R20 R23 R28-29 R36 R49 R56 R112 R118 R124 R130 R136 R143 R159 R185-188 R192-193 R197 R199 R201 R209 R212-213 R218-219 R223 R236 R244 R266 R334 R340 R383-384	52-1338	RES 10K 1% 1/16W SM 0603 TA	PT2584 R10KB1-0603	0603
12	R34 R57 R64-65 R72-73 R80-81 R88-89 R281-282	52-1342	RES 13.3K 1% 1/16W SM 0603 TA	PT2594 R13.3KB1-0603	0603
1	R267	52-1362	RES 150K 1% 1/16W SM 0603 TA	PT2615 R150KB1-0603	0603
1	R153	52-1344	RES 15K 1% 1/16W SM 0603 TA	PT2596 R15KB1-0603	0603
4	R92 R149 R233 R235	52-1305	RES 169 1% 1/16W SM 0603 TA	PT2513 R169-B1-0603	0603
11	R156 R173-174 R210-211 R269-274	52-1313	RES 1K 1% 1/16W SM 0603 TA	PT2550 R1KB1-0603	0603
1	R336	52-1372	RES 1M 1% 1/16W SM 0603 TA	PT2625 R1MB1-0603	0603
4	R74 R90 R226 R232	52-1317	RES 2.21K 1% 1/16W SM 0603 TA	PT2555 R2.21KB1-0603	0603
10	R24 R66 R83 R109 R121 R133 R146 R190 R231 R247	52-1319	RES 2.67K 1% 1/16W SM 0603 TA	PT2557 R2.67KB1-0603	0603
2	R175 R337	52-1300	RES 20 1% 1/16W SM 0603 TA	PT2507 R20-B1-0603	0603
16	R38 R43 R176-182 R189 R191 R194-196 R332-333	52-1306	RES 200 1% 1/16W SM 0603 TA	PT2514 R200-B1-0603	0603

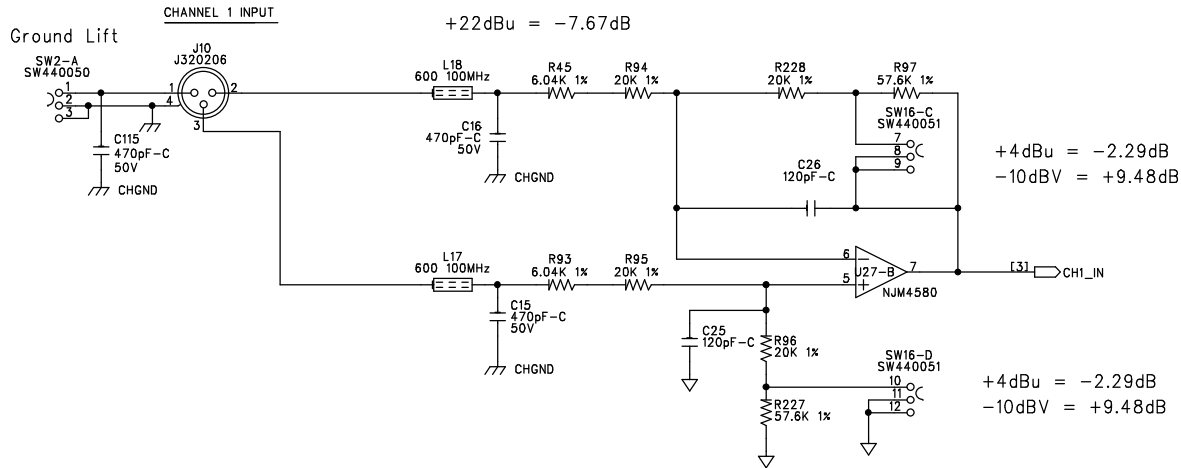
8	R46-48 R94-96 R224 R228	52-1346	RES 20K 1% 1/16W SM 0603 TA	PT2598 R20KB1-0603	0603
1	R255	52-1364	RES 221K 1% 1/16W SM 0603 TA	PT2617 R221KB1-0603	0603
13	R40 R75 R82 R98-100 R154-155 R221 R229-230 R241 R262	52-1316	RES 2K 1% 1/16W SM 0603 TA	PT2553 R2KB1-0603	0603
12	R5 R26 R50 R110 R113 R122 R125 R134 R137 R147 R237 R248	52-1322	RES 3.16K 1% 1/16W SM 0603 TA	PT2560 R3.16KB1-0603	0603
6	R41 R111 R123 R135 R148 R249	52-1323	RES 3.24K 1% 1/16W SM 0603 TA	PT2561 R3.24KB1-0603	0603
26	R25 R31-33 R60-63 R68-71 R76-79 R84-87 R105 R165 R321-322 R357-358	52-1324	RES 3.32K 1% 1/16W SM 0603 TA	PT2562 R3.32KB1-0603	0603
50	R9 R67 R161-162 R203-204 R234 R242 R251-252 R256-257 R259-260 R264-265 R279-280 R283-284 R287-288 R291-294 R297-300 R302-305 R307-310 R313-316 R318-320 R323 R325-328	52-1307	RES 332 1% 1/16W SM 0603 TA	PT2543 R332-B1-0603	0603
6	R101-102 R152 R261 R263 R275	50-1325	RES 33K 5% 1/16W SM 0603 TA	PT2589 R33KB5-0603	0603
1	R169	52-1301	RES 39.2 1% 1/16W SM 0603 TA	PT2515 R39.2-B1-0603	0603
1	R382	52-1355	RES 39.2K 1% 1/16W SM 0603 TA	PT2608 R39.2KB1-0603	0603
13	R21-22 R107-108 R119-120 R131-132 R144-145 R245-246 R364	52-1327	RES 4.53K 1% 1/16W SM 0603 TA	PT2565 R4.53KB1-0603	0603
1	R30	52-1368	RES 475K 1% 1/16W SM 0603 TA	PT2621 R475KB1-0603	0603
2	R330-331	52-1356	RES 49.9K 1% 1/16W SM 0603 TA	PT2609 R49.9KB1-0603	0603
17	R151 R198 R202 R250 R258 R278 R285-286 R290 R296 R301 R306 R311 R317 R324 R329 R365	52-1308	RES 499 1% 1/16W SM 0603 TA	PT2545 R499-B1-0603	0603
6	R19 R55 R117 R129 R142 R243	52-1331	RES 5.76K 1% 1/16W SM 0603 TA	PT2576 R5.76KB1-0603	0603
4	R97 R141 R225 R227	52-1357	RES 57.6K 1% 1/16W SM 0603 TA	PT2610 R57.6KB1-0603	0603
11	R15 R27 R42 R44-45 R51 R93 R114 R126 R138 R238	52-1332	RES 6.04K 1% 1/16W SM 0603 TA	PT2577 R6.04KB1-0603	0603
12	R17-18 R52-53 R115-116 R127-128 R139-140 R239-240	52-1303	RES 60.4 1% 1/16W SM 0603 TA	PT2511 R60.4-B1-0603	0603
1	R268	52-1358	RES 63.4K 1% 1/16W SM 0603 TA	PT2611 R63.4KB1-0603	0603
1	R220	52-1311	RES 681 1% 1/16W SM 0603 TA	PT2548 R681-B1-0603	0603
9	R205-208 R214-217 R276	52-1335	RES 7.5K 1% 1/16W SM 0603 TA	PT2581 R7.5KB1-0603	0603
2	R106 R166	52-1336	RES 8.06K 1% 1/16W SM 0603 TA	PT2582 R8.06KB1-0603	0603
1	P6	38-0001	RBN CBL 20 COND. 0.1", 4.25"	PT2772 RC20-380001	RC380001
2	SC14-15	34-0125	SWITCH CAP, BLACK, ROUND	PT1354 SC340125	SC340125-FPE
1	SC13	34-0198-C	SWITCH CAP LIGHT PIPE SNGL LED HORZ	PT2504 SC340198C	SC340198C
12	SC1-12	34-0199-A	SWITCH CAP dbx LIGHTED	PT2024 SC340199A	PCBNUL
1	SW2	44-0050	SWITCH DPDT MINI IN-OUT 6 PIN E-SWITCH	PT1256 SW440050	SW440050
2	SW1 SW16	44-0051	SWITCH, 4PDT, MINI IN-OUT, 12 PIN, E-SWITCH	PT1257 SW440051	SW440051
1	SW15	44-0119	ENCODER 20mm D SHAFT 30 POS W/SWITCH VERT MOUNT	PT1890 SW440119	SW440119
12	SW3-7 SW9-14 SW17	44-0185	SWITCH, SPST, LITE TOUCH, MINI, W/ PROJECTED PLUNGER SMT	PT1962 SW440185	SW4PTACT-3
7	TP1-2 TP4 TP8-10 TP12	NON-PART	NON-PART, TEST POINT, ENGINEERING PROBE POINT	PT1653 TESTPOINT	TESTPOINTSMT
1	U28	70-4014	V-REG, 7805, +5V, 1.5 AMP, TO-220	PT1591 U7805	TO220(IGO)-V
1	U10	70-4123	V-REG, 7815, +15V, 1 AMP, TO-220	PT1592 U7815	TO220(IGO)-V
1	U12	70-4124	V-REG, 7915, -15V, 1 AMP, TO-220	PT1594 U7915	TO220(GIO)-V
1	U7	72-0046	IC 25AA640 64K SERIAL EEPROM TA	PT2774 U25AA260	SO8
1	U5	72-6318	IC 32K x 8 SRAM 15ns SOJ28	PT2294 U32K8S15-J	SOJ28-300
6	U2 U33 U36 U38 U42 U51	72-1439	IC, 5532MD, DUAL BIPOLAR OPAMP, SO8-200	PT1306 U5532MD-S	SO8-200
2	U25 U48	72-5426	IC, 74AC04, HEX INVERTER, SO14, T&R	PT1325 U74AC04-S	SO14
1	U21	72-5437	IC 74VHC273 FLIP-FLOP OCTAL-D SO20W T&R	PT1909 U74VHC273-S	SO20W

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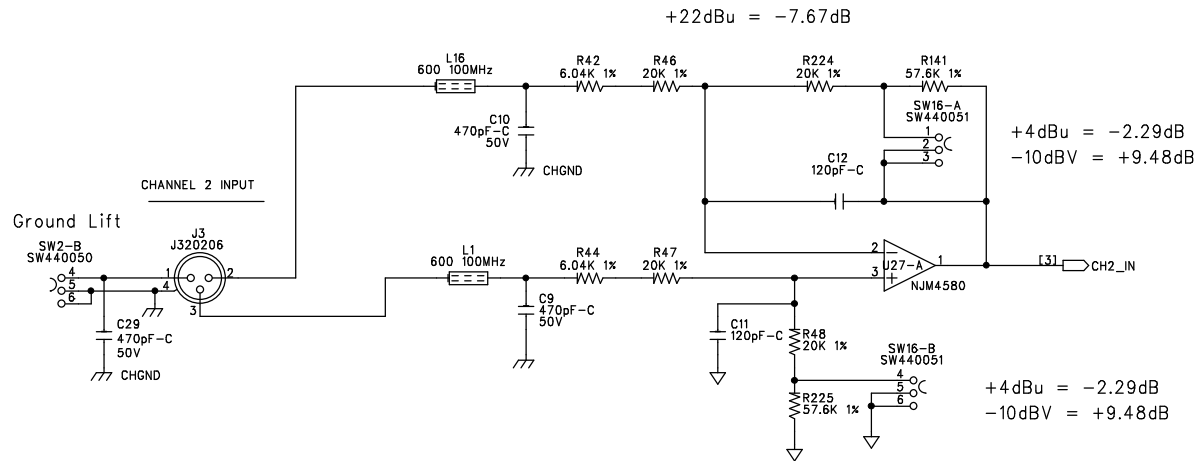
1	U17	72-0045	IC 74VHC373 OCTAL LATCH SO20W	PT2771	U74VHC373-S	SO20W
1	U44	72-0044	IC 74VHC4040 12 BIT RIPPLE COUNTER SO16	PT2759	U74VHC4040-S	SO16
1	U20	72-6316	IC 78L32P-24 8 BIT MICROCONTROLLER 3.3V	PT2316	U78L32P-24	PLCC-44
1	U11	72-1485	IC AK4356 192kHz 24 BIT 6 CHANNEL DAC	PT2717	UAK4356-Q	QFP44-10X10
1	U26	72-1266	IC, AK5383, 96 kHz, DUAL 24BIT ADC, SO28W	PT1557	UAK5383-S	SO28W
1	U1	72-6305	IC DSP56367 DSP 150MHZ QFP144-20X20	PT2452	UDSP56367-Q	QFP144-20X20
1	U24	70-4021	V-REG, LD1117V33, +3.3V, 0.8 AMP, TO-220, BULK	PT1795	ULD1117V33	TO220(GOI)-V
1	U14	70-0063	V-REG LM2575S-ADJ SWITCHING REG 1A TO-263(5)	PT2739	ULM2575S-ADJ	TO-263(5)
1	U16	70-4007	V-REG, LM317T, ADJ REG, 1.5 AMP, TO-220	PT1785	ULM317T	TO220(AOI)-V
2	U4 U18	72-5434	IC NC7SZ125 TINYLOGIC BUFFER SOT23-5 TA	PT1881	UNC7SZ125-S	SOT23-5
1	U3	72-6308	IC NCP304 VOLTAGE DETECTOR SC-82AB	PT2393	UNCP304	SC-82AB
11	U8-9 U15 U19 U22-23 U27 U60-62 U70	72-1480	IC NJM4580 DUAL OP-AMP SO8	PT1374	UNJM4580-S	SO8
1	U13	72-0042-00V1	IC CPLD ispLSI2064VE dbx Driverack PA V1	PT2785	UP720042	QFP100-14X14
1	U6	72-5539-03V1	IC AM29LV040B 512K x 8 FLASH MEMORY dbx Driverack PA V1	PT2292	UP725539	PLCC/R-32
1	Y3	76-0202	XTAL 24.000MHz METAL CAN SURFACE MOUNT T&R	PT1928	Y24.000M760202	XTAL2-V
1	X7	76-0006	XTAL 24.576MHz SMT CX16F/CS49G PKG	PT2713	Y24.576M760006	YCX16F/CX49G

SC15
SC340125

SC14
SC340125

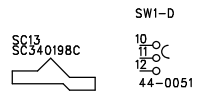
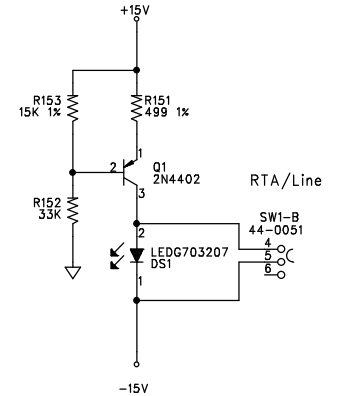
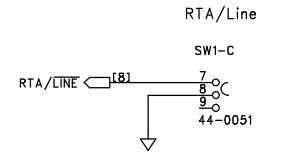
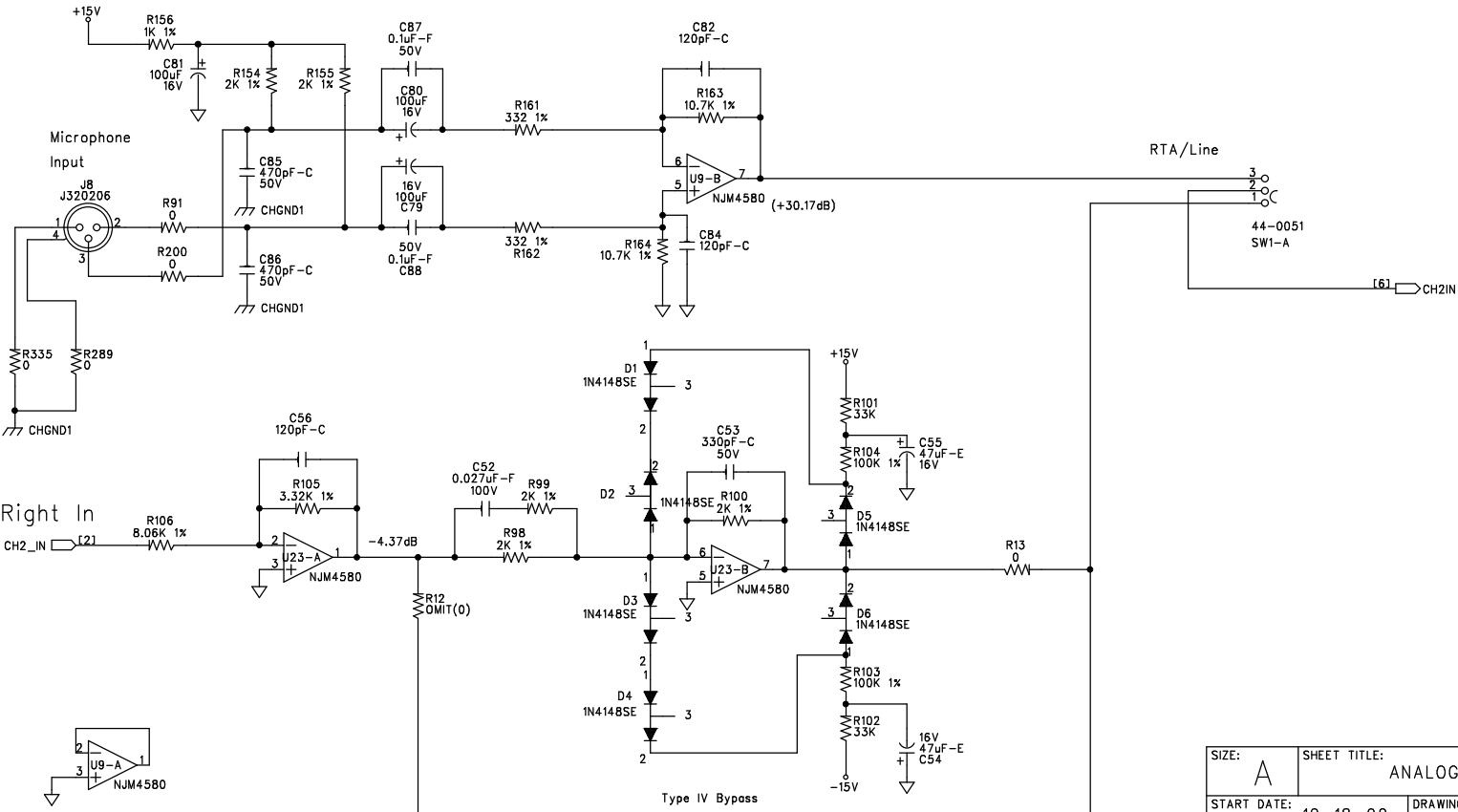
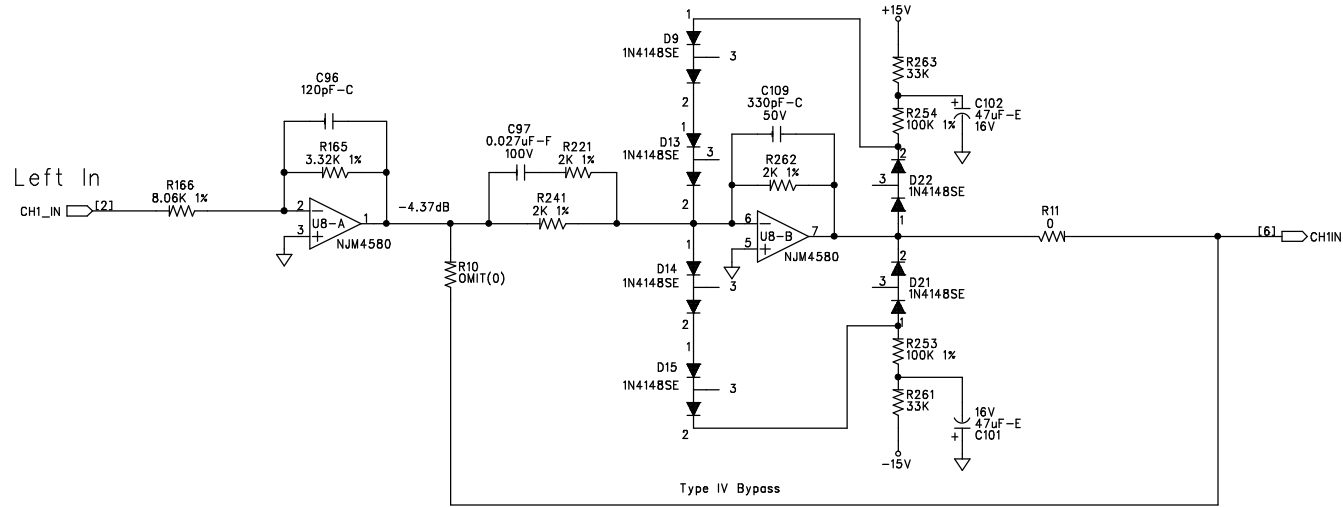


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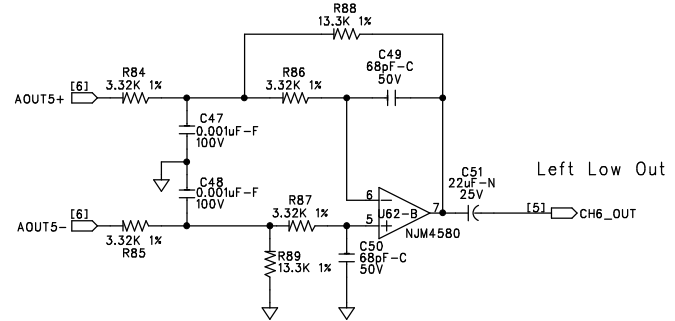
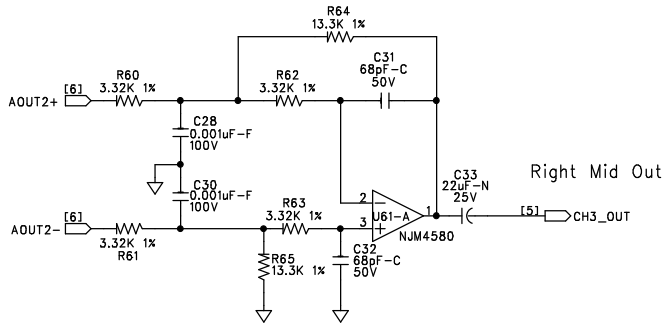
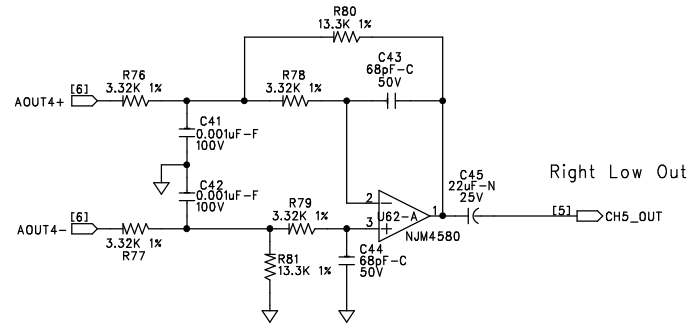
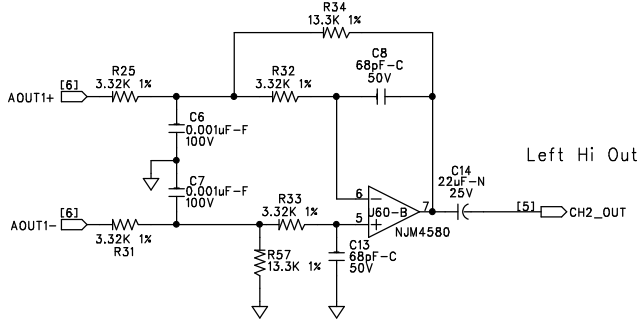
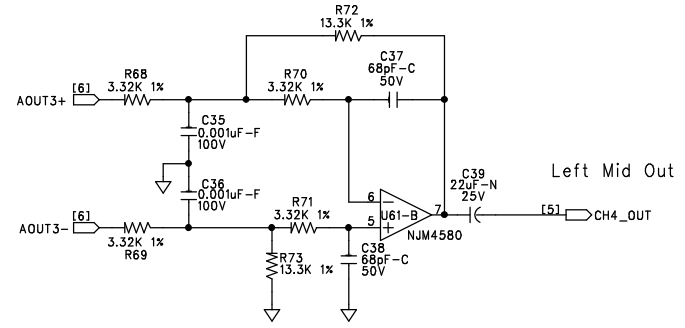
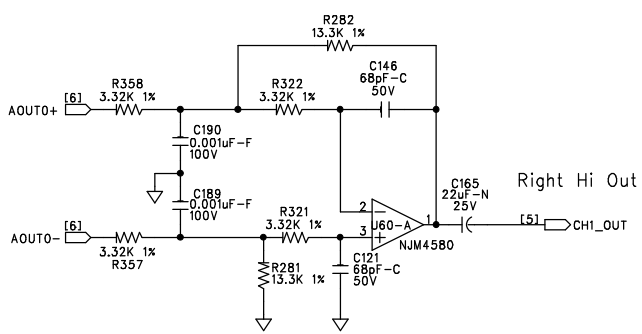


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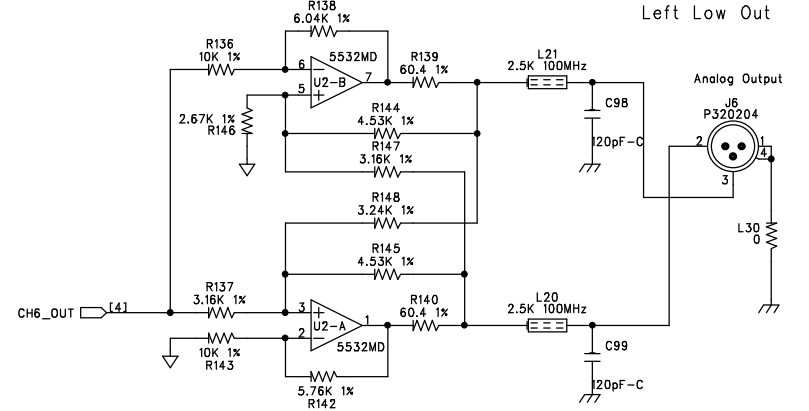
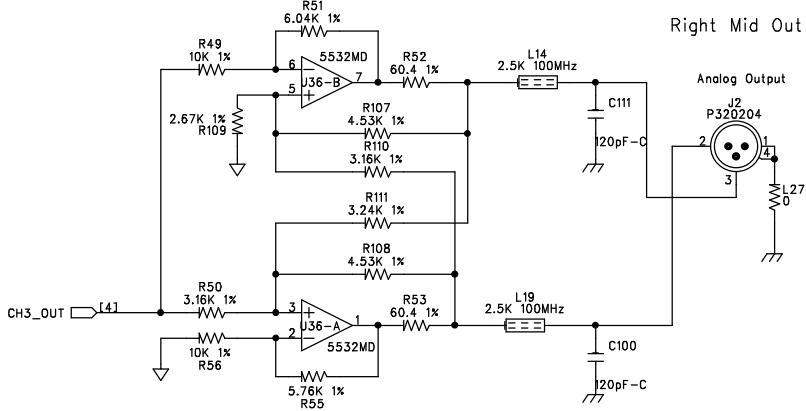
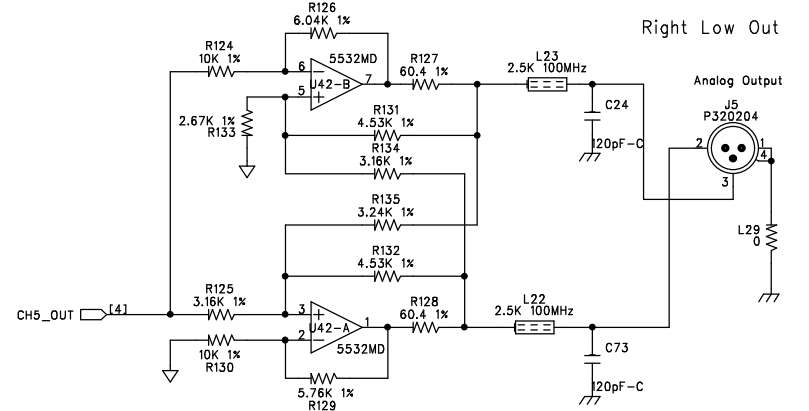
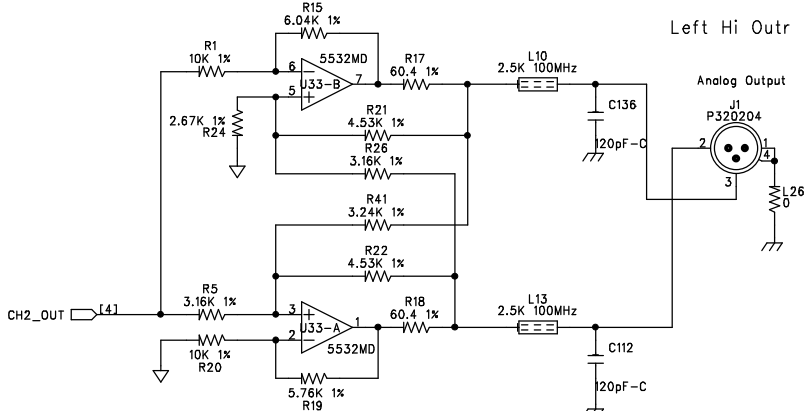
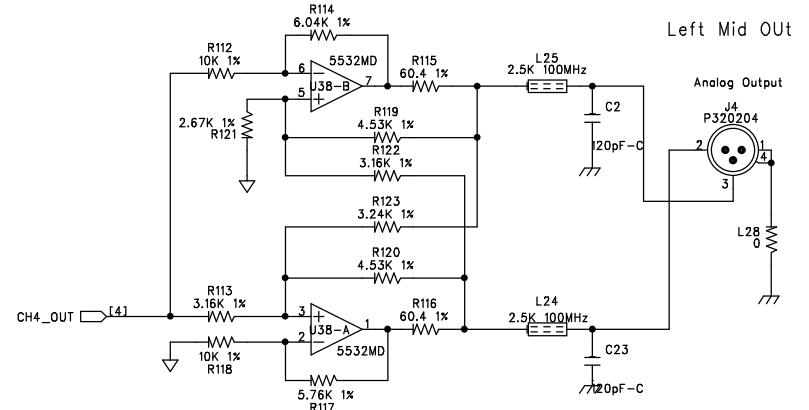
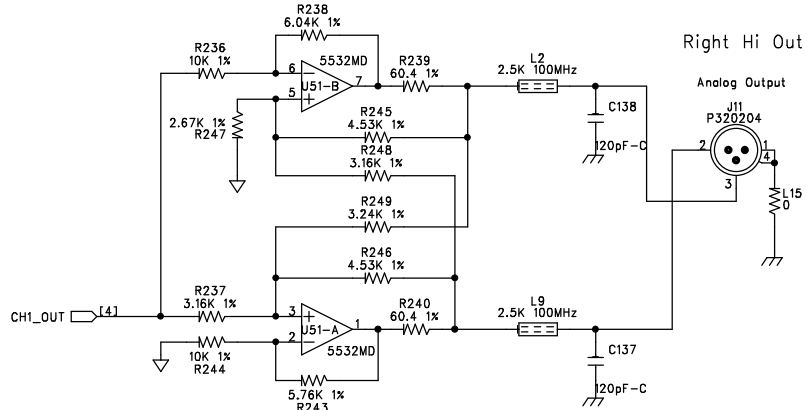
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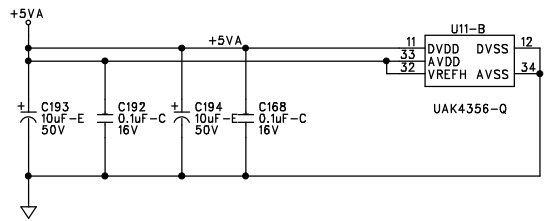
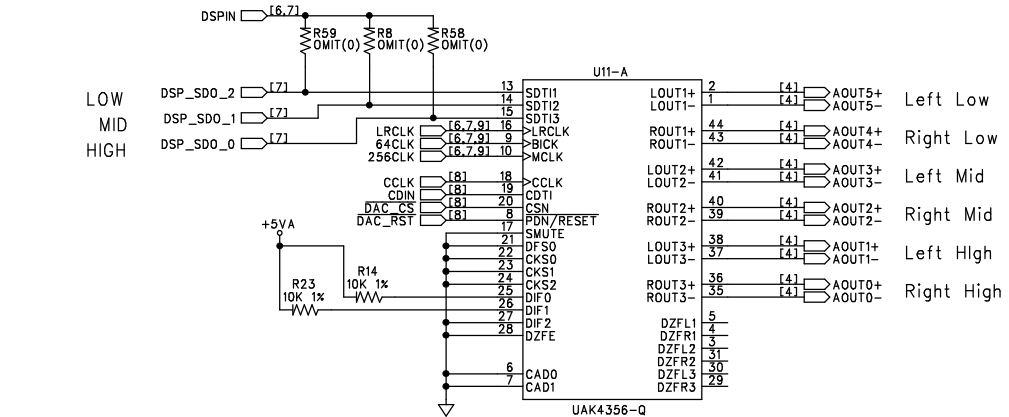
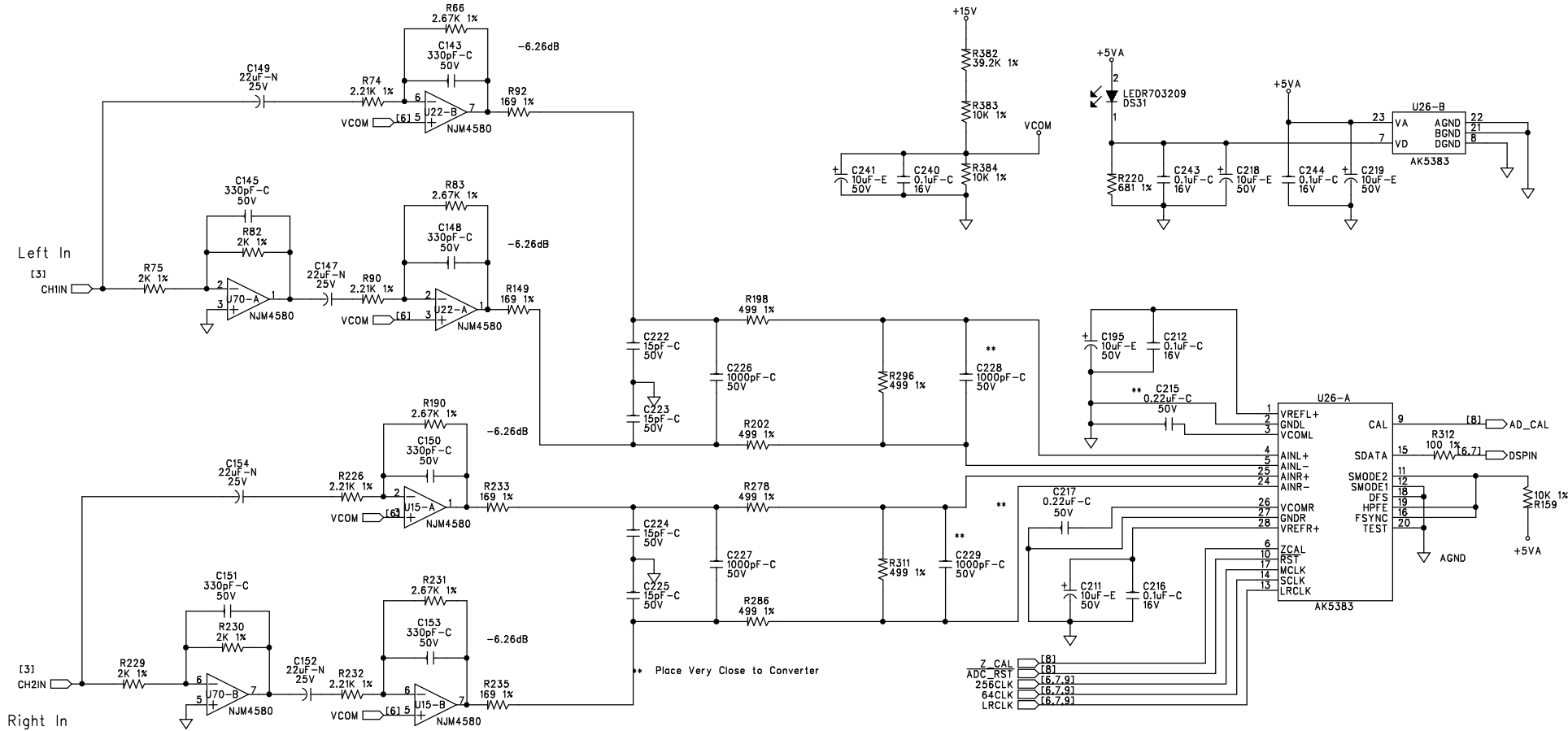
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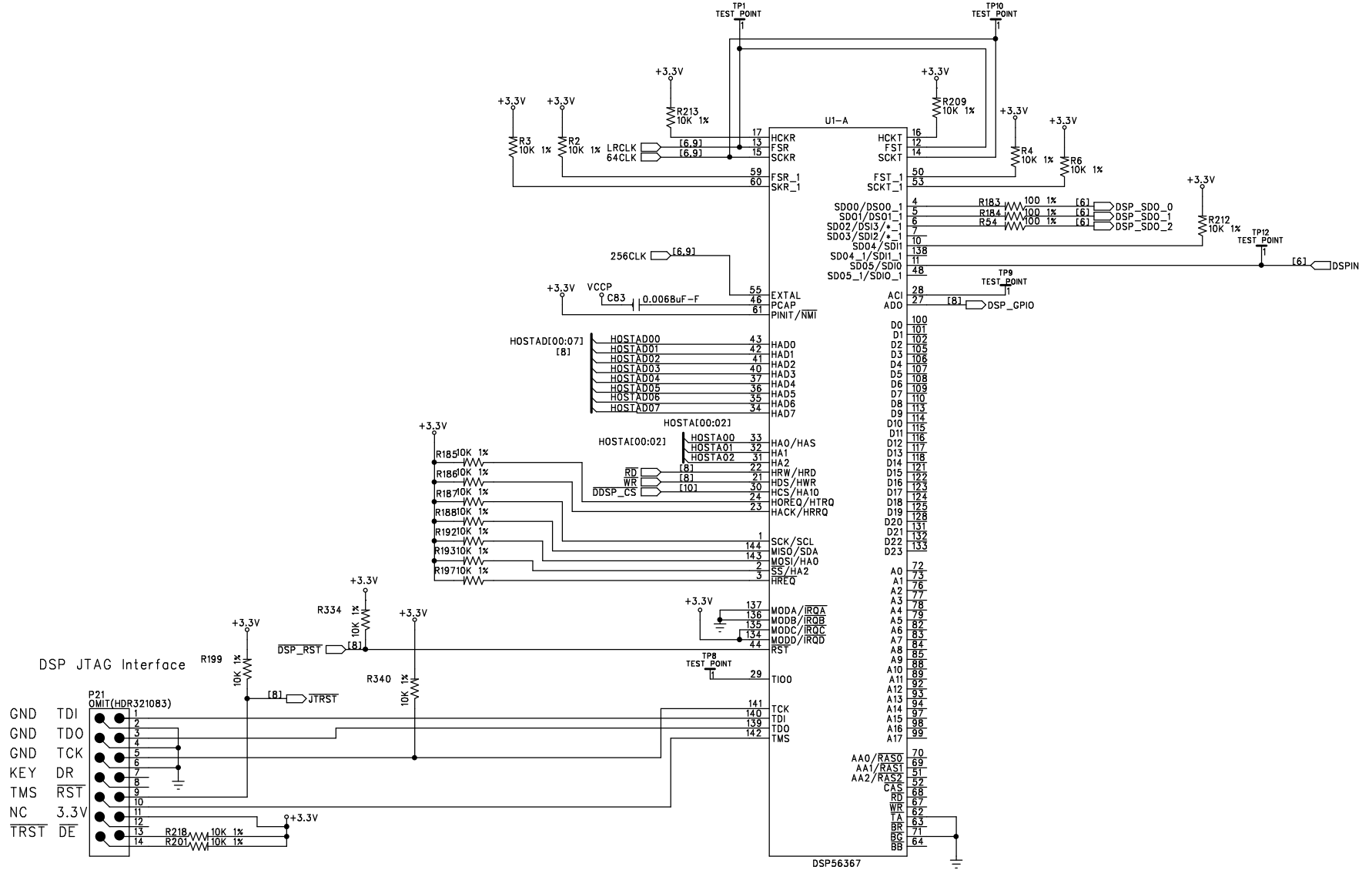
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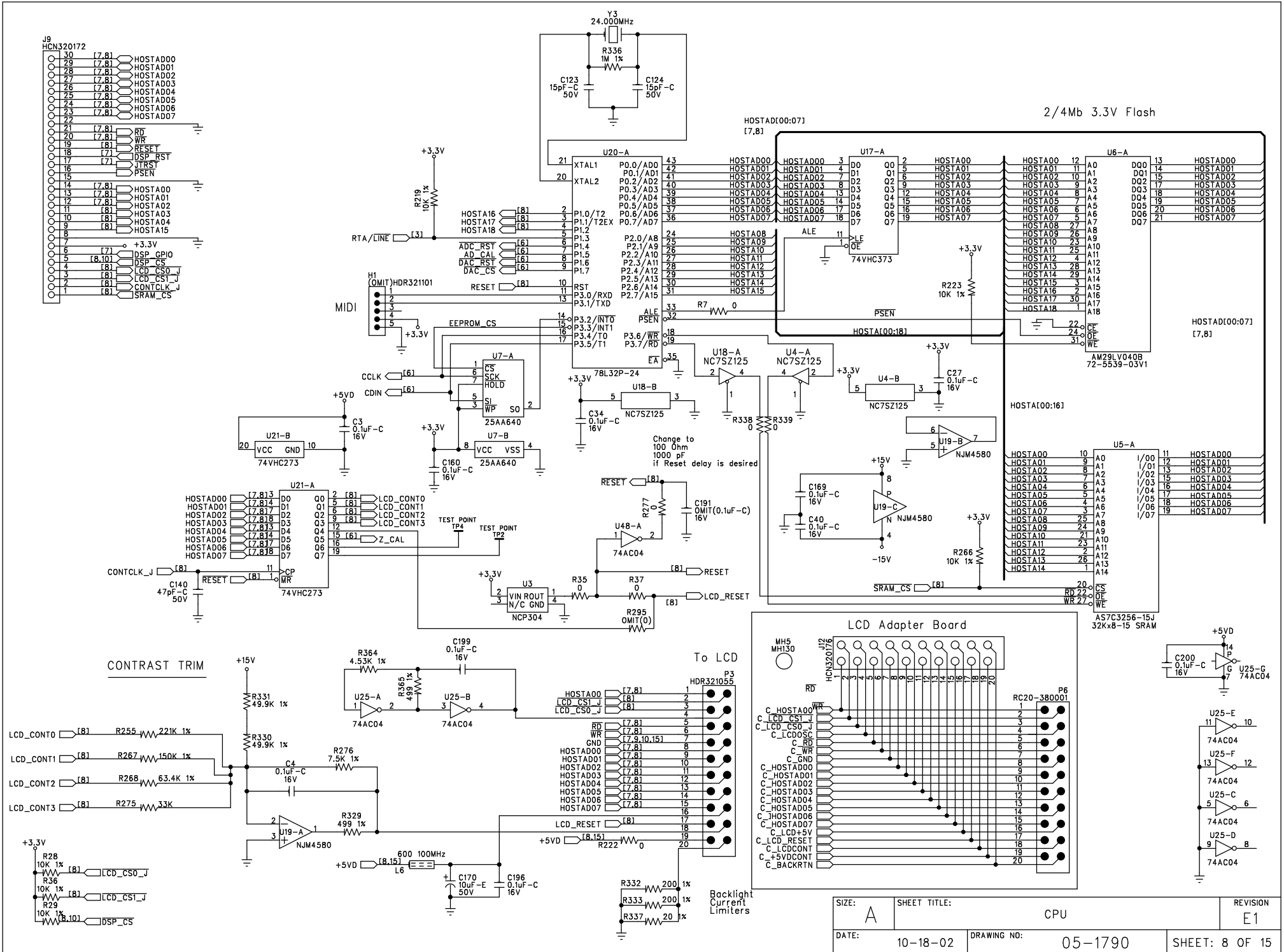


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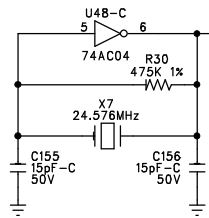




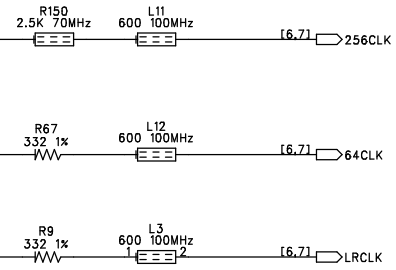
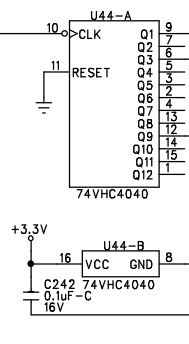
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Divider/Clock Tree

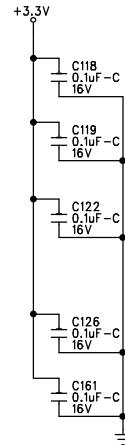
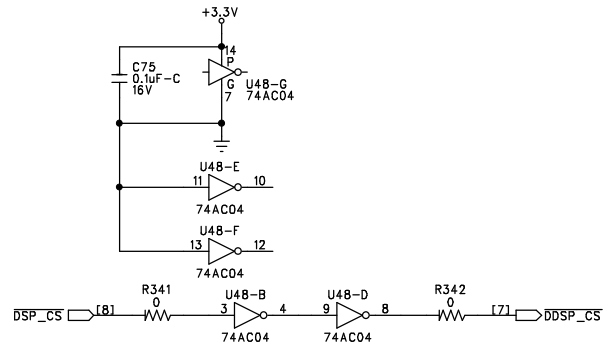
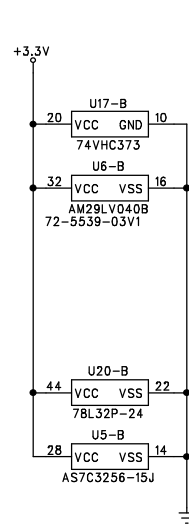
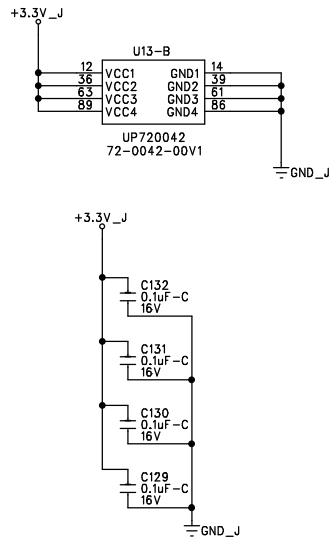
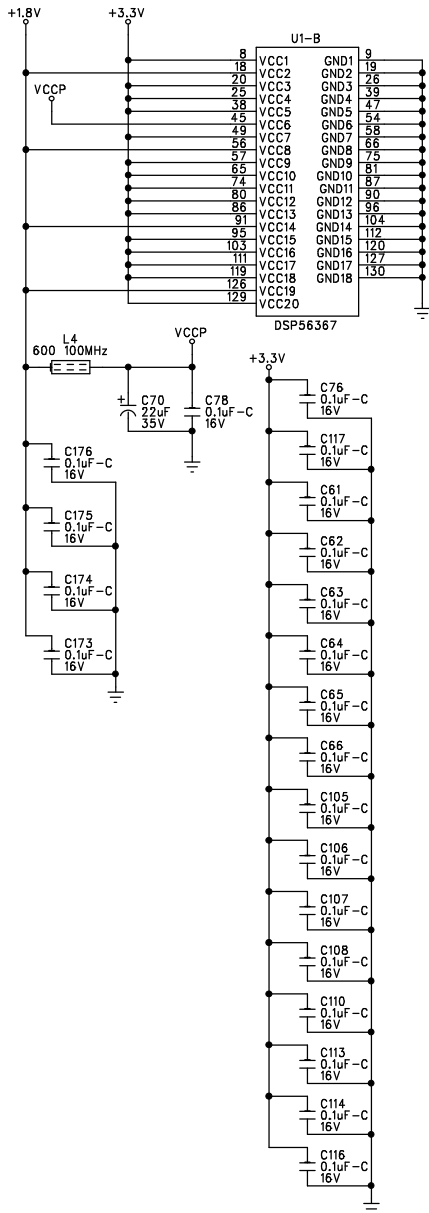
x512fs Crystal Oscillator
24.576 MHz



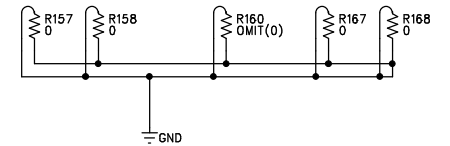
Change to 74VHC4040



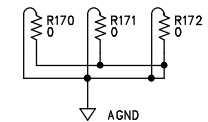
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DATE: 10-18-02	DRAWING NO: 05-1790	SHEET: 9 OF 15	



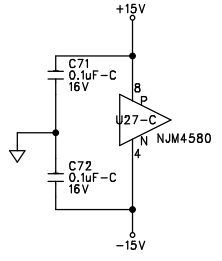
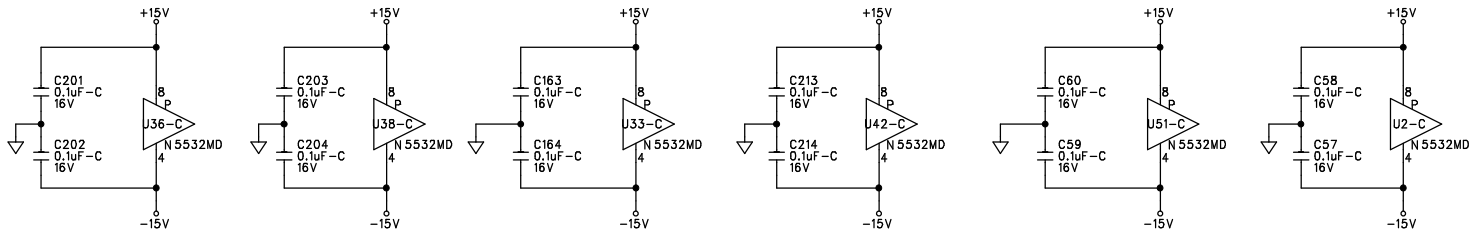
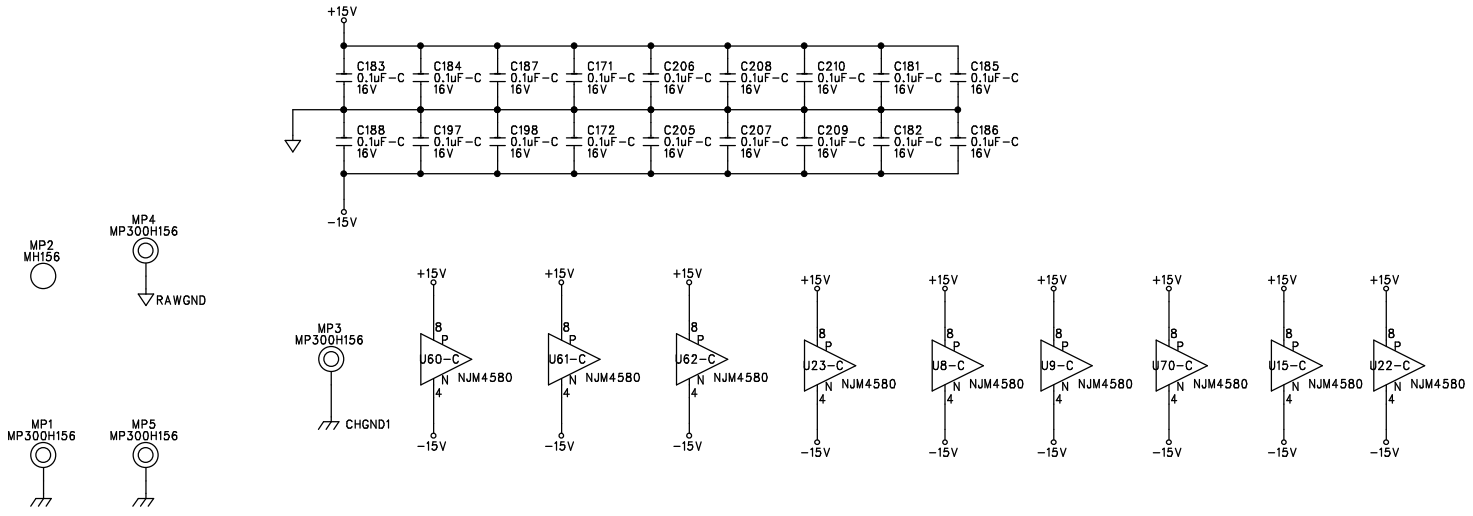
Digital Ground Test Points



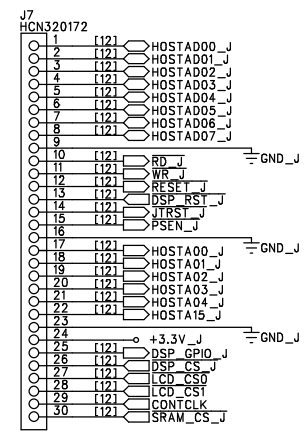
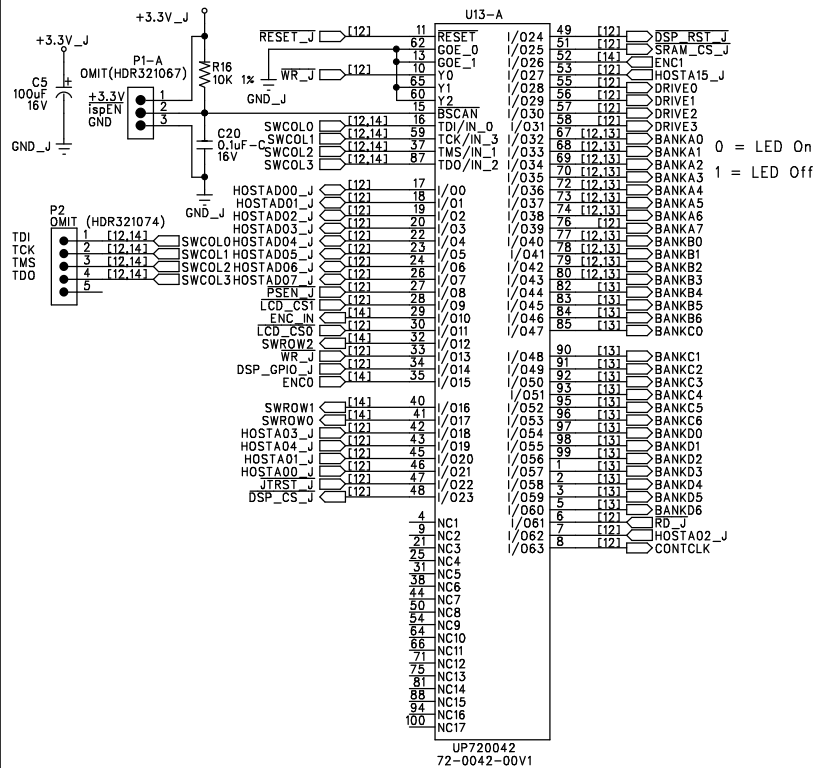
Analog Ground Test Points



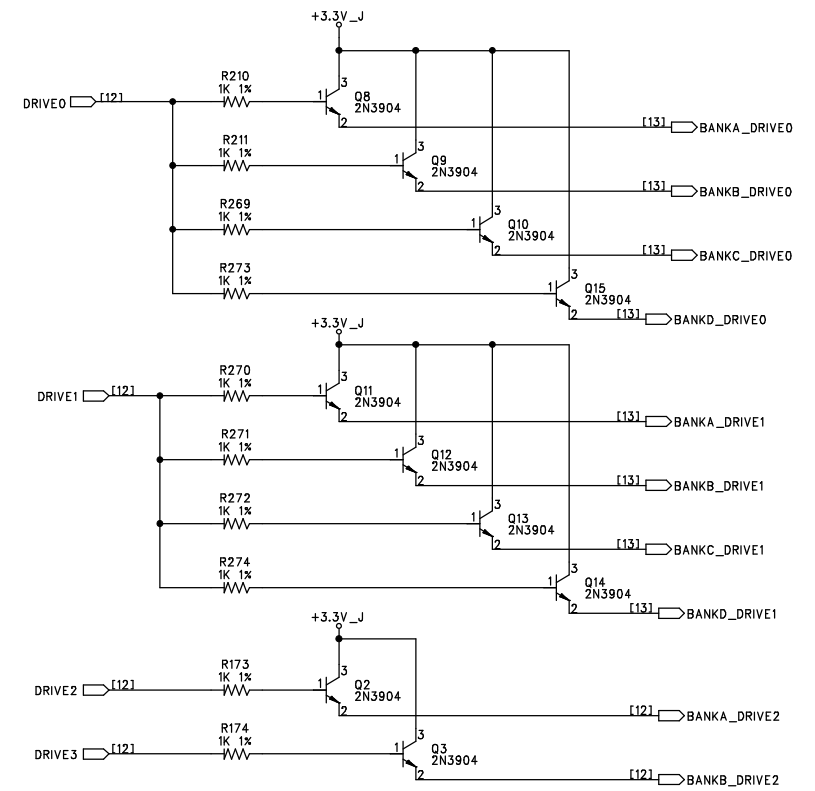
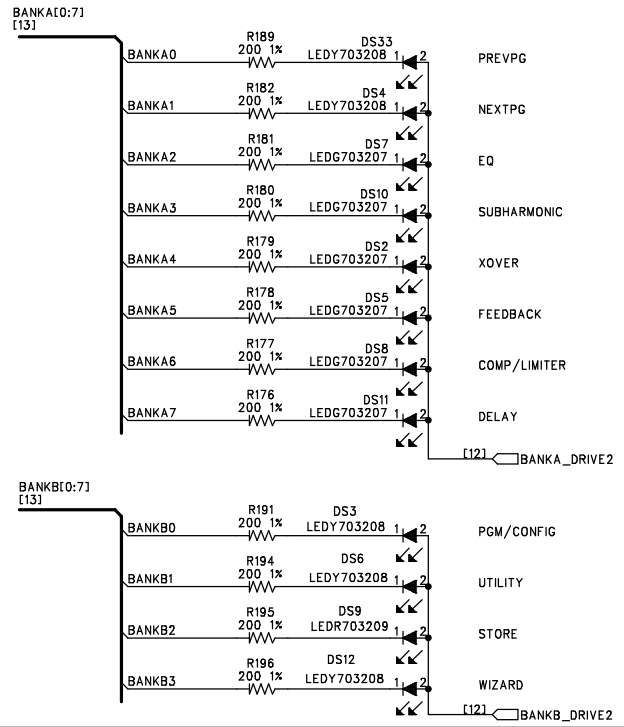
SIZE: A	SHEET TITLE: DIGITAL POWER GATES	REVISION: E1
DATE: 10-18-02	DRAWING NO: 05-1790	SHEET: 10 OF 15



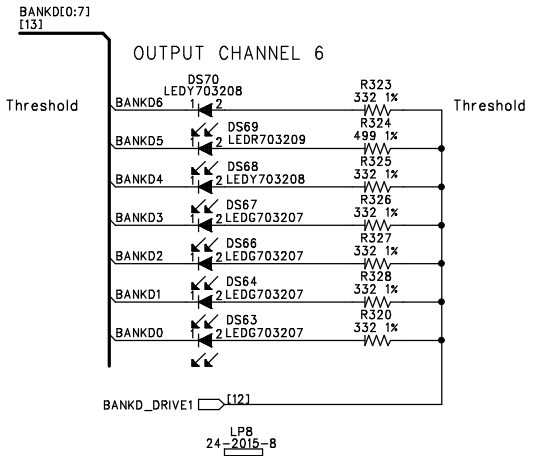
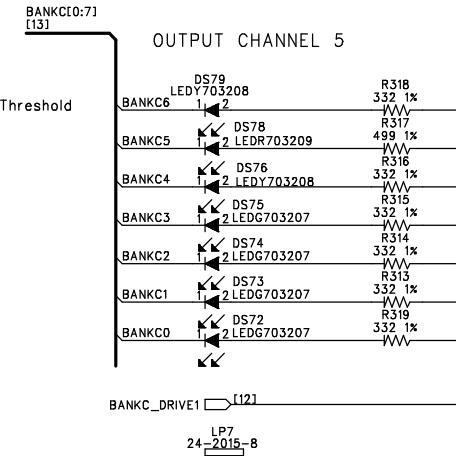
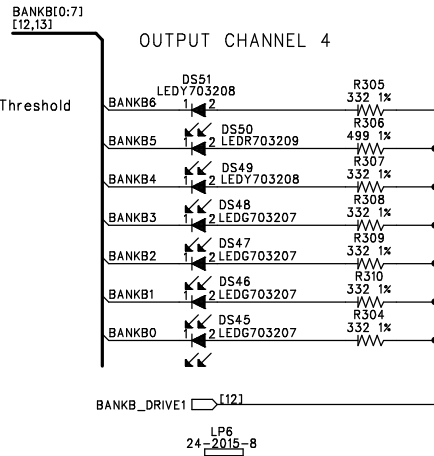
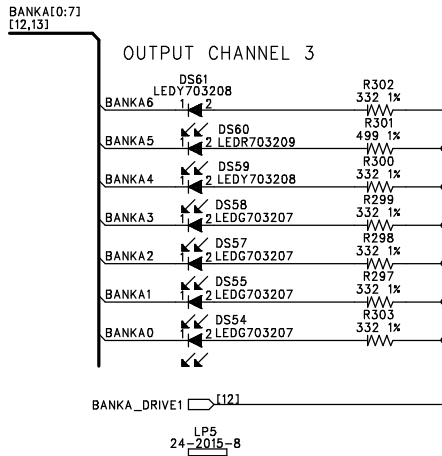
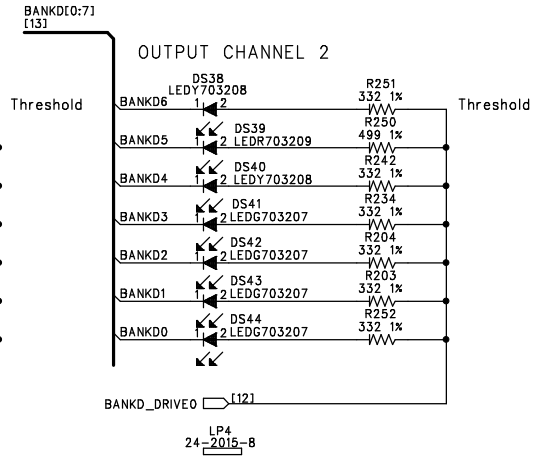
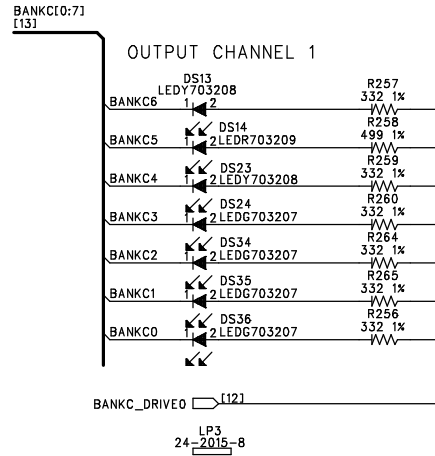
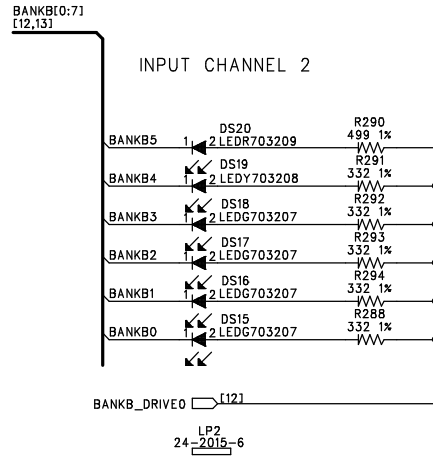
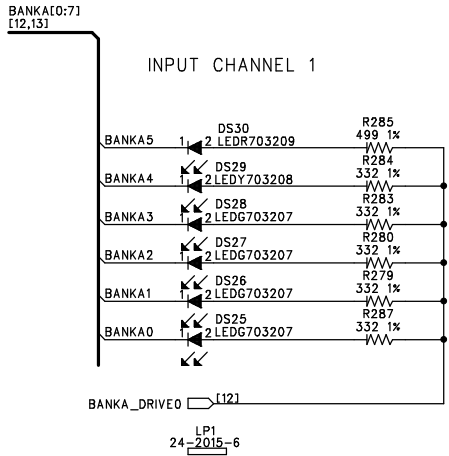
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START DATE: 10-18-02	DRAWING NO: 05-1790	SHEET: 11 OF 15



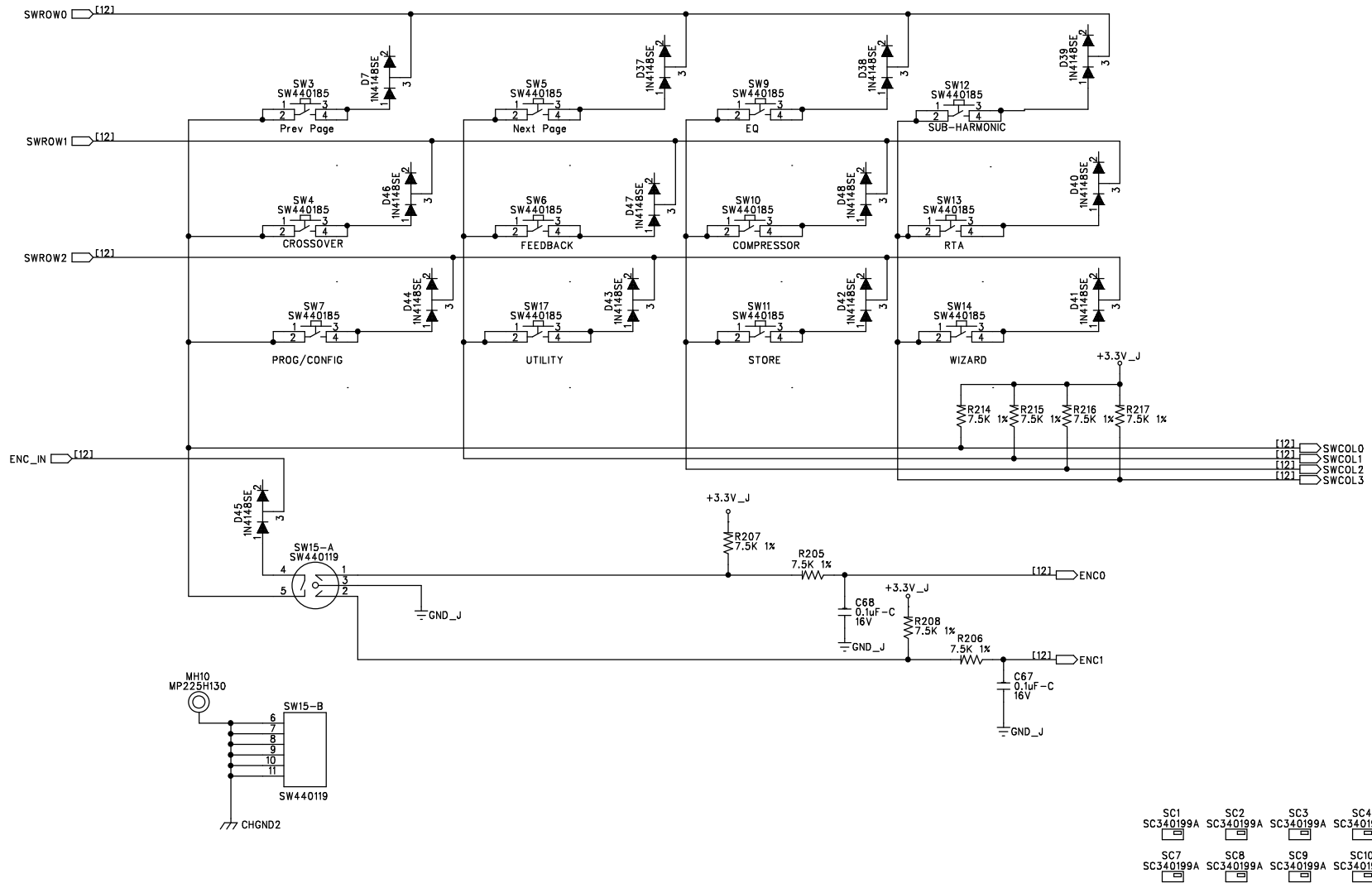
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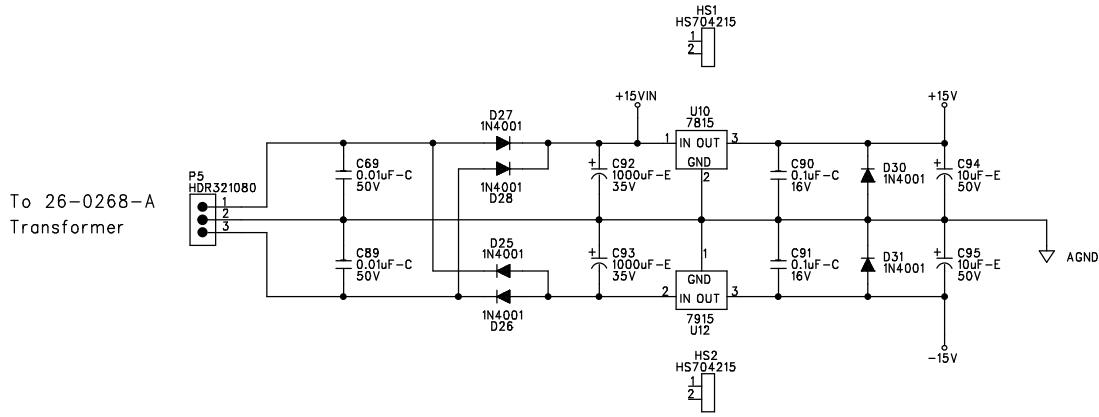


SIZE: A	SHEET TITLE: FRONT PANEL - LED/LCD CONTROL	REVISION: E1
DATE: 10-18-02	DRAWING NO: 05-1790	SHEET: 12 OF 15

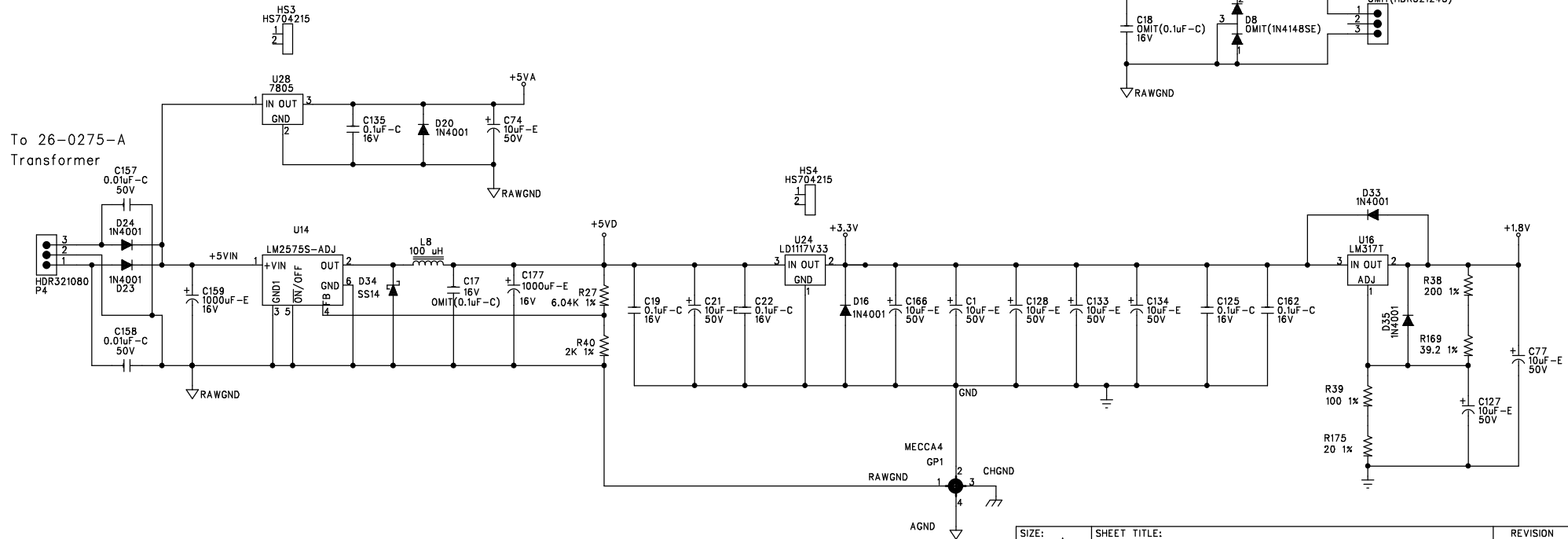


SIZE: A	SHEET TITLE: FRONT PANEL - METER LEDS	REVISION: E1
START DATE: 10-18-02	DRAWING NO: 05-1790	SHEET: 13 OF 15

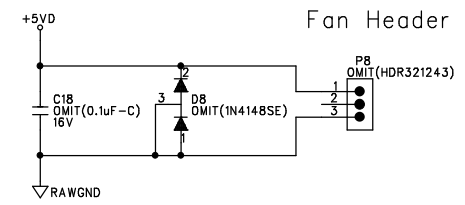




To 26-0268-A
Transformer



To 26-0275-A
Transformer



Fan Header

SIZE: A	SHEET TITLE: POWER SUPPLY	REVISION: E1
DATE: 10-18-02	DRAWING NO: 05-1790	SHEET: 15 OF 15

Bill Of Materials for 051790E1.sch on Wed Oct 01 10:51:41 2003

Qty	Reference	HMG#	Description	Audit	Schematic Part	PCB Decal
1	PCB1	80-1790	PCB 80-1790 dbx DRIVERACK PA	PT2044	80XXXXXX	BARCODE
14	A7-18 A20 A22	NON-PART	NON-PART, PCB ONLY, BREAKOFF PART	PT1481	BRKOFF	BRKOFF
12	C6-7 C28 C30 C35-36 C41-42 C47-48 C189-190	56-0000	CAP 0.001uF FILM PTR 100V 5% AF TA	PT1629	C0.001UF100JR	RFCC200
1	C83	56-0005	CAP 0.0068uF FILM PTR 100V 5% RF TA	PT1307	C0.0068UF100JR	RFDC200
4	C69 C89 C157-158	62-1311	CAP 0.01uF CER 50V 20% Y5V 0603 TA	PT2665	C0.01UC50M0603	0603
2	C52 C97	56-0033	CAP 0.027uF FILM PTR 100V 5% RF TA	PT1282	C0.027UF100JR	RFEF200
91	C3-4 C19-20 C22 C27 C34 C40 C57-68 C71-72 C75-76 C78 C90-91 C105-108 C110 C113-114 C116-119 C122 C125-126 C129-132 C135 C160-164 C168-169 C171-176 C181-188 C192 C196-210 C212-214 C216 C240 C242-244	62-1310	CAP 0.1uF CER 16V 20% Y5V 0603 TA	PT2696	C0.1UC16M0603	0603
3	C17-18 C191	OMIT	OMIT CAP 0.1uF CER 16V 20% Y5V 0603 TA (62-1310)	PT2711	C0.1UC16M06030	0603
2	C87-88	56-0012	CAP 0.1uF FILM MTPPT 50V 5% RF TA	PT1200	C0.1UF50JR	RFEC200
2	C215 C217	62-3209	CAP 0.22uF CER 50V 10% X7R 1206 TA	PT2271	C0.22UC50K1206	1206
4	C226-229	62-1308	CAP 1000pF CER 50V 20% Y5V 0603 TA	PT2651	C1000PC50M0603	0603
2	C159 C177	60-0064	CAP 1000uF EL 16V 20% GP 10x17R 5LL BK	PT1334	C1000UE16MR	REM200P
2	C92-93	60-1073	CAP 1000uF EL 35V 20% HT 13x25R 5LL BK	PT1971	C1000UE35MR1	REQ200P
4	C5 C79-81	60-0201	CAP 100uF EL 16V 20% GP 6x8R 5LS TA	PT1378	C100UE16MR	REG200P
19	C1 C21 C74 C77 C94-95 C127-128 C133-134 C166 C170 C193-195 C211 C218-219 C241	60-1074	CAP 10uF EL 50V 20% HT 5x11R 5LS TA	PT1972	C10UE50MR1	REE200P
20	C2 C11-12 C23-26 C56 C73 C82 C84 C96 C98-100 C111-112 C136-138	62-1304	CAP 120pF CER 50V 5% NPO 0603 TA	PT2655	C120PC50J0603	0603
8	C123-124 C155-156 C222-225	62-1300	CAP 15pF CER 50V 5% NPO 0603 TA	PT2659	C15PC50J0603	0603
1	C70	60-0010	CAP 22uF EL 35V 20% GP 5x11R 5LS TA	PT2110	C22UE35MR	REE200P
10	C14 C33 C39 C45 C51 C147 C149 C152 C154 C165	60-0402	CAP 22uF ELNP 25V 20% GP 6x11R 5LS TA	PT1084	C22UN25MR	REG200
8	C53 C109 C143 C145 C148 C150-151 C153	62-1306	CAP 330pF CER 50V 10% X7R 0603 TA	PT2653	C330PC50K0603	0603
8	C9-10 C15-16 C29 C85-86 C115	62-1307	CAP 470pF CER 50V 10% X7R 0603 TA	PT2652	C470PC50K0603	0603
1	C140	62-1302	CAP 47pF CER 50V 5% NPO 0603 TA	PT2657	C47PC50J0603	0603
4	C54-55 C101-102	60-0054-01	CAP 47uF EL 16V 20% GP 5x11R 5LS TA	PT1108	C47UE16MR	REE200P
12	C8 C13 C31-32 C37-38 C43-44 C49-50 C121 C146	62-1303	CAP 68pF CER 50V 5% NPO 0603 TA	PT2656	C68PC50J0603	0603
12	D16 D20 D23-28 D30-31 D33 D35	70-0000	DIO 1N4001 50V 1 AMP AMMO TA	PT1003	D1N4001-R	RDB200
25	D1-7 D9 D13-15 D21-22 D37-48	70-0113	DIO MMBD4148SE DUAL 75V 600mA SOT-23 TA	PT1326	D1N4148SE-S	SOT-23
1	D8	OMIT	OMIT DIO MMBD4148SE DUAL 75V 600mA SOT-23 TA (70-0113)	PT1327	D1N4148SE-S-O	SOT-23
1	D34	70-0147	DIO SCHOTTKY 1A SS14 DO-214AC/SMA	PT1877	DSS14S	DO-214AC/SMA
2	A4-5	NON-PART	NON-PART, FIDUCIAL, TARGET FOR AUTO INSERTION	PT1271	FIDUCIAL	FIDUCIAL
4	A1-3 A6	NON-PART	NON-PART FIDUCIAL TARGET FOR AI AND XRAY	PT2796	FIDUCIAL-XRAY	FIDUCIAL-XRAY

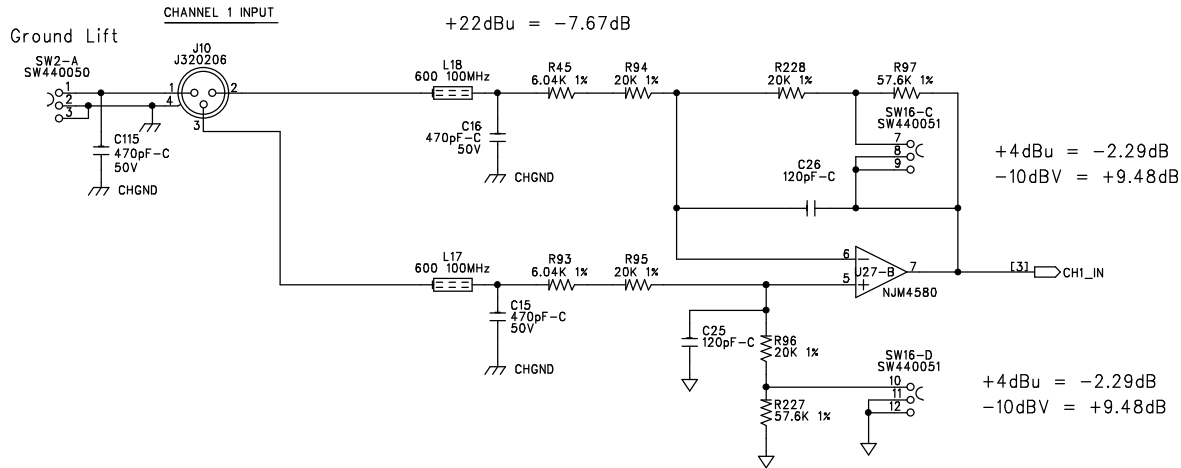
2	J7 J9	32-0172	HCN CONN 30 PIN .5 MM CNTS 1X30 FML RA	PT2724 HCN320172	HC320172
1	J12	32-0176	HCN CONN 20 PIN FEM VRT MNT SMT	PT2773 HCN320176	HC102V079050FS
1	P3	32-1055	HDR, 20 PIN, 0.1" SPC, 2 X 10, VERT, MALE	PT1340 HDR321055	HC102
2	P4-5	32-1080	HDR, 3 PIN, 0.1" SPC, 1 X 3, LCK, R/A, MALE	PT1073 HDR321080	HC3L
1	P1-A	OMIT	OMIT HDR 3 PIN 0.1" SPC 1 X 3 VERT MALE CUT FROM 14 PIN (32-1067)	PT2703 HDR321067-O	HC31
1	P2	OMIT	OMIT HDR 5 PIN 0.1" SPC 1 X 5 VERT MALE	PT2788 HDR321074-O	HC51M
1	P21	OMIT	OMIT HDR 14 PIN 0.1" SPC 2 X 7 VERT MALE (32-1083)	PT2127 HDR321083-O	HC72
1	H1	OMIT	OMIT, HDR, 5 PN, 0.079" SP, 1 X 5, 0.020" PS LK SD PO VT MA (32-1101)	PT1825 HDR321101-O	HC579LSFPM
1	P8	OMIT	OMIT HDR 3 PIN .098 SPC 3X1 SHROUDED VERTICAL MT. (32-1243)	PT2795 HDR321243-O	HC31V98SP
4	HS1-4	70-4215	HEATSINK, TO-220, VERT	PT1339 HS704215	HS704215
3	J3 J8 J10	32-0206	CON, JACK, XLR, R/A, PCA A SERIES	PT1219 J320206	XLRF-1
1	LBL1	30-0121	LABEL BARCODE AUTOINSERTABLE RAW	PT2790 LABEL300121	LABEL300121
39	DS1-2 DS5 DS7-8 DS10-11 DS15-18 DS24-28 DS34-36 DS41-48 DS54-55 DS57-58 DS63-64 DS66-67 DS72-75	70-3207	LED GREEN D1206 T&R	PT1902 LEDG703207	D1206
10	DS9 DS14 DS20 DS30-31 DS39 DS50 DS60 DS69 DS78	70-3209	LED RED D1206 T&R	PT1901 LEDR703209	D1206
19	DS3-4 DS6 DS12-13 DS19 DS23 DS29 DS33 DS38 DS40 DS49 DS51 DS59 DS61 DS68 DS70 DS76 DS79	70-3208	LED YELLOW D1206 T&R	PT1900 LEDY703208	D1206
9	L1 L3-4 L6 L11-12 L16-18	26-0000	IND FBD 600 OHM @ 100Hz 200mA 0603 TA	PT2728 LFB260000	0603
12	L2 L9-10 L13-14 L19-25	26-0001	IND FBD 2.5K OHM @ 100Hz, 50mA 0603 TA	PT2729 LFB260001	0603
1	R150	26-0217	IND FBD 2.5K OHM @ 70MHz 0805 TA	PT1261 LFB260217	0805
1	L8	26-0002	IND PWR 100uH 3A	PT2754 LI260002	UP3B
2	LP1-2	NON-PART	NON-PART 6 POS NOT INSTALLED UNTIL MECHANICAL ASSY(LIGHT PIPE)	PT1967 LP242015-6	LP242015-6
6	LP3-8	NON-PART	NON-PART 8 POS NOT INSTALLED UNTIL MECHANICAL ASSY(LIGHT PIPE)	PT1968 LP242015-8	LP242015-8
1	GP1	NON-PART	NON-PART MECCA GND/PWR TIE POINT 4 POS	PT2482 MECCA4	MECCA4
6	MH3-6 MH8 MH12	NON-PART	NON-PART, MOUNTING HOLE, 0.130" NON-PLATED, #4	PT1242 MH130	MH130
2	MH7 MP2	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	PT2794 MH156-TOOL	MH156-TOOL
1	MH10	NON-PART	NON-PART MECHANICAL PLATED HOLE 225 PAD 130 HOLE #4	PT1998 MP225H130	MP225H130
4	MP1 MP3-5	NON-PART	NON-PART, MECHANICAL PLATED HOLE, 300 PAD, 156 HOLE, #6	PT1045 MP300H156	MP300H156
6	J1-2 J4-6 J11	32-0204	CON, PLUG, XLR, R/A, PCA A SERIES	PT1218 P320204	XLRM-1
1	Q1	70-1035	XSTR, 2N44402, PNP, SIGNAL, TO-92, AMMO	PT1527 Q2N4402	TO92(EBC)-V
10	Q2-3 Q8-15	70-1058	XSTR, 2N3904, NPN, SOT-23, T&R	PT1203 Q2N3904-S	SOT-23
21	L15 L26-30 R7 R11 R13 R35 R37 R91 R200 R222 R277 R289 R335 R338-339 R341-342	50-1300	RES 0 5% 1/16W SM 0603 TA	PT2508 R0-B5-0603	0603
6	R8 R10 R12 R58-59 R295	OMIT	OMIT RES 0 5% 1/16W SM 0603 TA (50-1300)	PT2509 R0-B5-0603O	0603
7	R157-158 R167-168 R170-172	50-0317	RES 0 5% 1/4W CF RR TA	PT1008 R0-E5-R	RRA200
1	R160	OMIT	OMIT RES 0 5% 1/4W CF RR TA (50-0317)	PT1596 R0-E5-RO	RRA200
2	R163-164	52-1340	RES 10.7K 1% 1/16W SM 0603 TA	PT2592 R10.7KB1-0603	0603
5	R39 R54 R183-184 R312	52-1304	RES 100 1% 1/16W SM 0603 TA	PT2512 R100-B1-0603	0603
4	R103-104 R253-254	52-1360	RES 100K 1% 1/16W SM 0603 TA	PT2613 R100KB1-0603	0603
43	R1-4 R6 R14 R16 R20 R23 R28-29 R36 R49 R56 R112 R118 R124 R130 R136 R143 R159 R185-188 R192-193	52-1338	RES 10K 1% 1/16W SM 0603 TA	PT2584 R10KB1-0603	0603

	R197 R199 R201 R209							
	R212-213 R218-219							
	R223 R236 R244 R266							
	R334 R340 R383-384							
12	R34 R57 R64-65	52-1342	RES 13.3K 1%	1/16W SM 0603 TA		PT2594 R13.3KB1-0603	0603	
	R72-73 R80-81							
	R88-89 R281-282							
1	R267	52-1362	RES 150K 1%	1/16W SM 0603 TA		PT2615 R150KB1-0603	0603	
1	R153	52-1344	RES 15K 1%	1/16W SM 0603 TA		PT2596 R15KB1-0603	0603	
4	R92 R149 R233 R235	52-1305	RES 169 1%	1/16W SM 0603 TA		PT2513 R169-B1-0603	0603	
11	R156 R173-174	52-1313	RES 1K 1%	1/16W SM 0603 TA		PT2550 R1KB1-0603	0603	
	R210-211 R269-274							
1	R336	52-1372	RES 1M 1%	1/16W SM 0603 TA		PT2625 R1MB1-0603	0603	
4	R74 R90 R226 R232	52-1317	RES 2.21K 1%	1/16W SM 0603 TA		PT2555 R2.21KB1-0603	0603	
10	R24 R66 R83 R109	52-1319	RES 2.67K 1%	1/16W SM 0603 TA		PT2557 R2.67KB1-0603	0603	
	R121 R133 R146 R190							
	R231 R247							
2	R175 R337	52-1300	RES 20 1%	1/16W SM 0603 TA		PT2507 R20-B1-0603	0603	
16	R38 R43 R176-182	52-1306	RES 200 1%	1/16W SM 0603 TA		PT2514 R200-B1-0603	0603	
	R189 R191 R194-196							
	R332-333							
8	R46-48 R94-96 R224	52-1346	RES 20K 1%	1/16W SM 0603 TA		PT2598 R20KB1-0603	0603	
	R228							
1	R255	52-1364	RES 221K 1%	1/16W SM 0603 TA		PT2617 R221KB1-0603	0603	
13	R40 R75 R82 R98-100	52-1316	RES 2K 1%	1/16W SM 0603 TA		PT2553 R2KB1-0603	0603	
	R154-155 R221							
	R229-230 R241 R262							
12	R5 R26 R50 R110	52-1322	RES 3.16K 1%	1/16W SM 0603 TA		PT2560 R3.16KB1-0603	0603	
	R113 R122 R125 R134							
	R137 R147 R237 R248							
6	R41 R111 R123 R135	52-1323	RES 3.24K 1%	1/16W SM 0603 TA		PT2561 R3.24KB1-0603	0603	
	R148 R249							
26	R25 R31-33 R60-63	52-1324	RES 3.32K 1%	1/16W SM 0603 TA		PT2562 R3.32KB1-0603	0603	
	R68-71 R76-79							
	R84-87 R105 R165							
	R321-322 R357-358							
50	R9 R67 R161-162	52-1307	RES 332 1%	1/16W SM 0603 TA		PT2543 R332-B1-0603	0603	
	R203-204 R234 R242							
	R251-252 R256-257							
	R259-260 R264-265							
	R279-280 R283-284							
	R287-288 R291-294							
	R297-300 R302-305							
	R307-310 R313-316							
	R318-320 R323							
	R325-328							
6	R101-102 R152 R261	50-1325	RES 33K 5%	1/16W SM 0603 TA		PT2589 R33KB5-0603	0603	
	R263 R275							
1	R169	52-1301	RES 39.2 1%	1/16W SM 0603 TA		PT2515 R39.2-B1-0603	0603	
1	R382	52-1355	RES 39.2K 1%	1/16W SM 0603 TA		PT2608 R39.2KB1-0603	0603	
13	R21-22 R107-108	52-1327	RES 4.53K 1%	1/16W SM 0603 TA		PT2565 R4.53KB1-0603	0603	
	R119-120 R131-132							
	R144-145 R245-246							
	R364							
1	R30	52-1368	RES 475K 1%	1/16W SM 0603 TA		PT2621 R475KB1-0603	0603	
2	R330-331	52-1356	RES 49.9K 1%	1/16W SM 0603 TA		PT2609 R49.9KB1-0603	0603	
17	R151 R198 R202 R250	52-1308	RES 499 1%	1/16W SM 0603 TA		PT2545 R499-B1-0603	0603	
	R258 R278 R285-286							
	R290 R296 R301 R306							
	R311 R317 R324 R329							
	R365							
6	R19 R55 R117 R129	52-1331	RES 5.76K 1%	1/16W SM 0603 TA		PT2576 R5.76KB1-0603	0603	
	R142 R243							

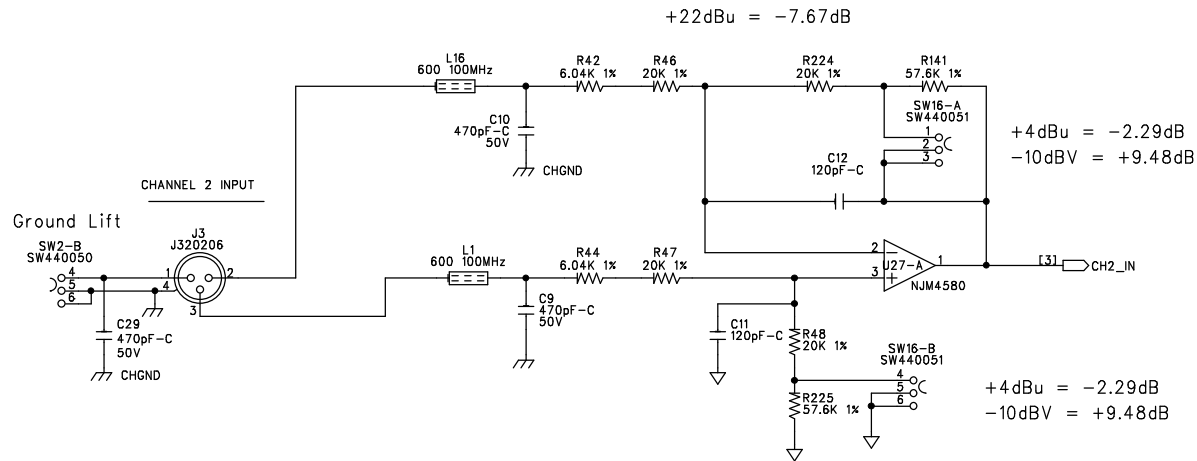
4	R97 R141 R225 R227	52-1357	RES 57.6K 1% 1/16W SM 0603 TA	PT2610 R57.6KB1-0603	0603
11	R15 R27 R42 R44-45 R51 R93 R114 R126 R138 R238	52-1332	RES 6.04K 1% 1/16W SM 0603 TA	PT2577 R6.04KB1-0603	0603
12	R17-18 R52-53 R115-116 R127-128 R139-140 R239-240	52-1303	RES 60.4 1% 1/16W SM 0603 TA	PT2511 R60.4-B1-0603	0603
1	R268	52-1358	RES 63.4K 1% 1/16W SM 0603 TA	PT2611 R63.4KB1-0603	0603
1	R220	52-1311	RES 681 1% 1/16W SM 0603 TA	PT2548 R681-B1-0603	0603
9	R205-208 R214-217 R276	52-1335	RES 7.5K 1% 1/16W SM 0603 TA	PT2581 R7.5KB1-0603	0603
2	R106 R166	52-1336	RES 8.06K 1% 1/16W SM 0603 TA	PT2582 R8.06KB1-0603	0603
1	P6	38-0001	RBN CBL 20 COND. 0.1", 4.25"	PT2772 RC20-380001	RC380001
2	SC14-15	34-0125	SWITCH CAP, BLACK, ROUND	PT1354 SC340125	SC340125-FPE
1	SC13	34-0198-C	SWITCH CAP LIGHT PIPE SNGL LED HORZ	PT2504 SC340198C	SC340198C
12	SC1-12	34-0199-A	SWITCH CAP dbx LIGHTED	PT2024 SC340199A	PCBNULL
1	SW2	44-0050	SWITCH DPDT MINI IN-OUT 6 PIN E-SWITCH	PT1256 SW440050	SW440050
2	SW1 SW16	44-0051	SWITCH, 4PDT, MINI IN-OUT, 12 PIN, E-SWITCH	PT1257 SW440051	SW440051
1	SW15	44-0119	ENCODER 20mm D SHAFT 30 POS W/SWITCH VERT MOUNT	PT1890 SW440119	SW440119
12	SW3-7 SW9-14 SW17	44-0185	SWITCH, SPST, LITE TOUCH, MINI, W/ PROJECTED PLUNGER SMT	PT1962 SW440185	SW4PTACT-3
7	TP1-2 TP4 TP8-10 TP12	NON-PART	NON-PART, TEST POINT, ENGINEERING PROBE POINT	PT1653 TESTPOINT	TESTPOINTS
1	U28	70-4014	V-REG, 7805, +5V, 1.5 AMP, TO-220	PT1591 U7805	TO220(IGO)-V
1	U10	70-4123	V-REG, 7815, +15V, 1 AMP, TO-220	PT1592 U7815	TO220(IGO)-V
1	U12	70-4124	V-REG, 7915, -15V, 1 AMP, TO-220	PT1594 U7915	TO220(GIO)-V
1	U7	72-0046	IC 25AA640 64K SERIAL EEPROM TA	PT2774 U25AA260	SO8
1	U5	72-6318	IC 32K x 8 SRAM 15ns SOJ28	PT2294 U32K8S15-J	SOJ28-300
6	U2 U33 U36 U38 U42 U51	72-1439	IC, 5532MD, DUAL BIPOLAR OPAMP, SO8-200	PT1306 U5532MD-S	SO8-200
2	U25 U48	72-5426	IC, 74AC04, HEX INVERTER, SO14, T&R	PT1325 U74AC04-S	SO14
1	U21	72-5437	IC 74VHC273 FLIP-FLOP OCTAL-D SO20W T&R	PT1909 U74VHC273-S	SO20W
1	U17	72-0045	IC 74VHC373 OCTAL LATCH SO20W	PT2771 U74VHC373-S	SO20W
1	U44	72-0044	IC 74VHC4040 12 BIT RIPPLE COUNTER SO16	PT2759 U74VHC4040-S	SO16
1	U20	72-6316	IC 78L32P-24 8 BIT MICROCONTROLLER 3.3V	PT2316 U78L32P-24	PLCC-44
1	U11	72-1485	IC AK4356 192kHz 24 BIT 6 CHANNEL DAC	PT2717 UAK4356-Q	QFP44-10X10
1	U26	72-1266	IC, AK5383, 96 kHz, DUAL 24BIT ADC, SO28W	PT1557 UAK5383-S	SO28W
1	U1	72-6305	IC DSP56367 DSP 150MHZ QFP144-20X20	PT2452 UDSP56367-Q	QFP144-20X20
1	U24	70-4021	V-REG, LD1117V33, +3.3V, 0.8 AMP, TO-220, BULK	PT1795 ULD1117V33	TO220(GOI)-V
1	U14	70-0063	V-REG LM2575S-ADJ SWITCHING REG 1A TO-263(5)	PT2739 ULM2575S-ADJ	TO-263(5)
1	U16	70-4007	V-REG, LM317T, ADJ REG, 1.5 AMP, TO-220	PT1785 ULM317T	TO220(AOI)-V
2	U4 U18	72-5434	IC NC7SZ125 TINYLOGIC BUFFER SOT23-5 TA	PT1881 UNC7SZ125-S	SOT23-5
1	U3	72-6308	IC NCP304 VOLTAGE DETECTOR SC-82AB	PT2393 UNCP304	SC-82AB
11	U8-9 U15 U19 U22-23 U27 U60-62 U70	72-1480	IC NJM4580 DUAL OP-AMP SO8	PT1374 UNJM4580-S	SO8
1	U13	72-0042-00V1	IC CPLD ispLSI2064VE dbx Driverack PA V1	PT2785 UP720042	QFP100-14X14
1	U6	72-5539-03V1	IC AM29LV040B 512K x 8 FLASH MEMORY dbx Driverack PA V1	PT2292 UP725539	PLCC/R-32
1	Y3	76-0202	XTAL 24.000MHz METAL CAN SURFACE MOUNT T&R	PT1928 Y24.000M760202	XTAL2-V
1	X7	76-0006	XTAL 24.576MHz SMT CX16F/CS49G PKG	PT2713 Y24.576M760006	YCX16F/CX49G

SCI5
SC340125

SCI4
SC340125

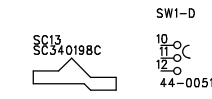
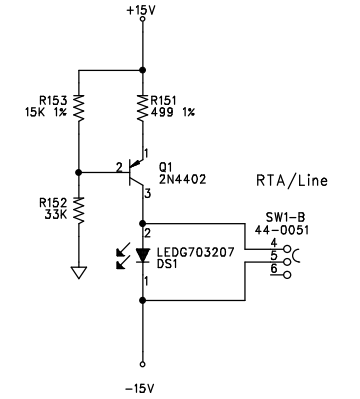
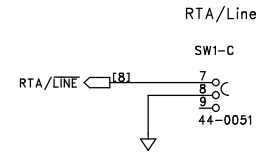
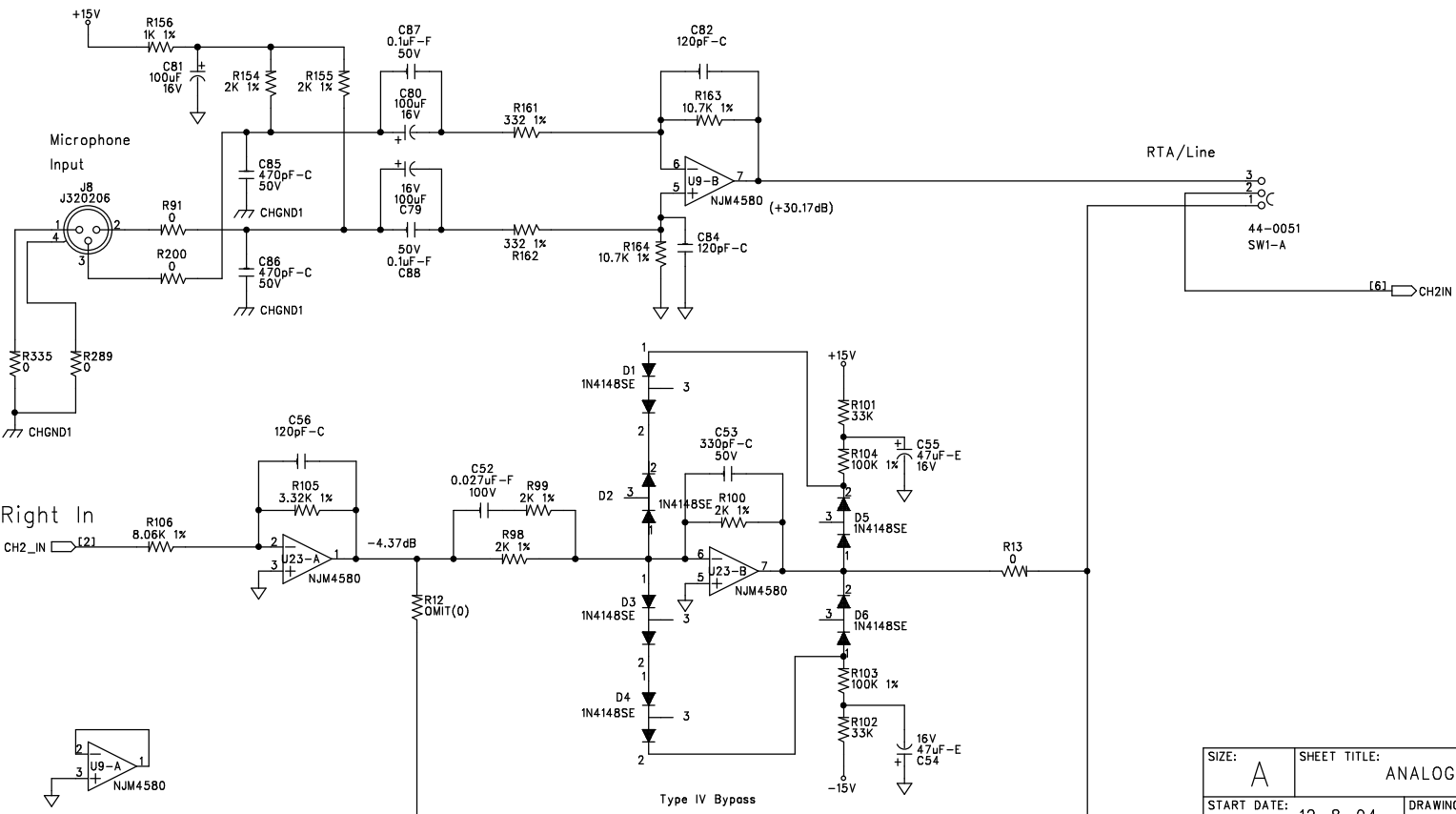
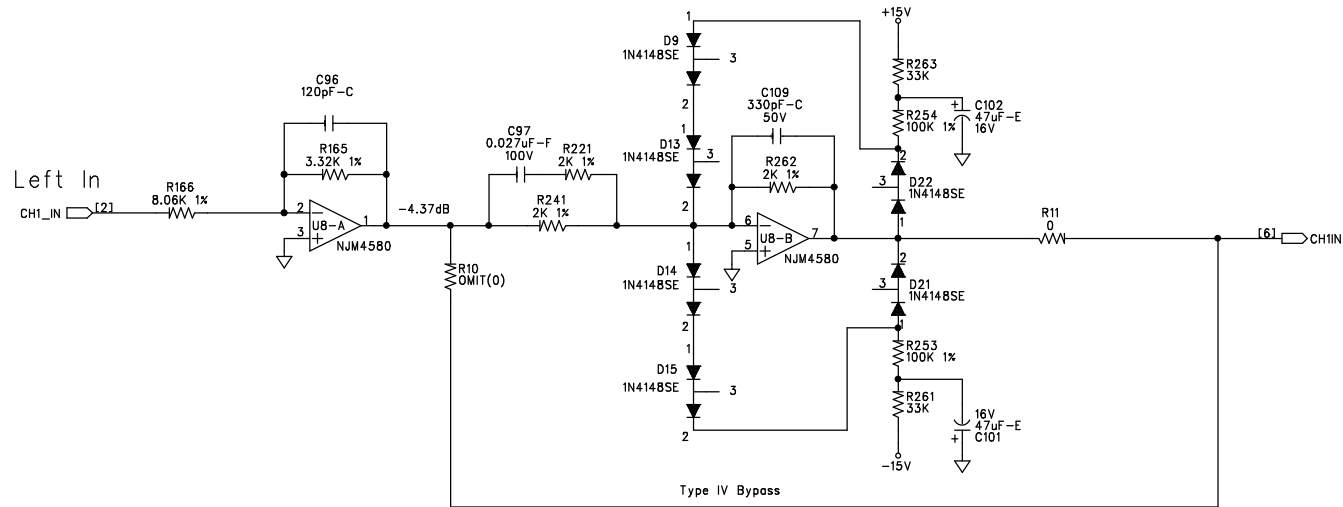


Left In

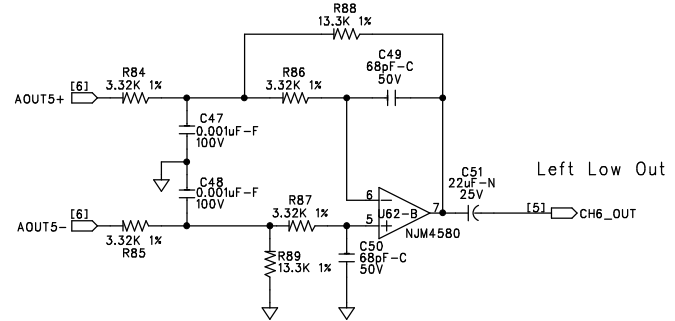
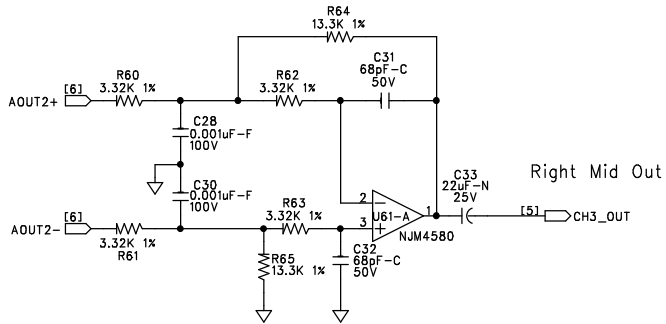
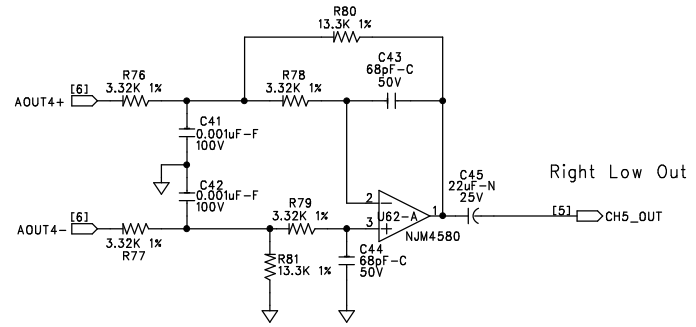
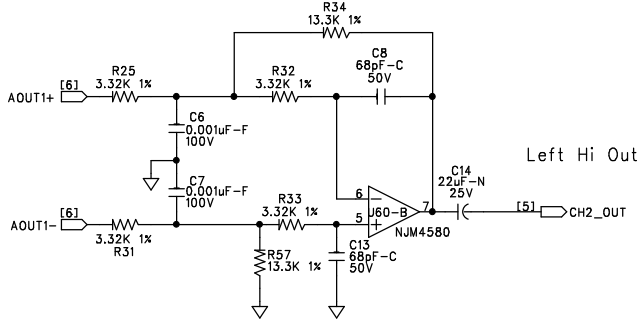
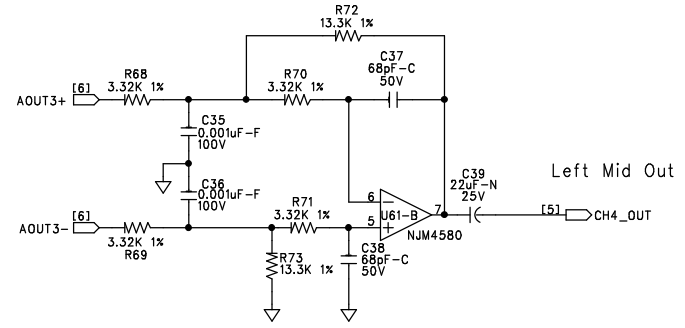
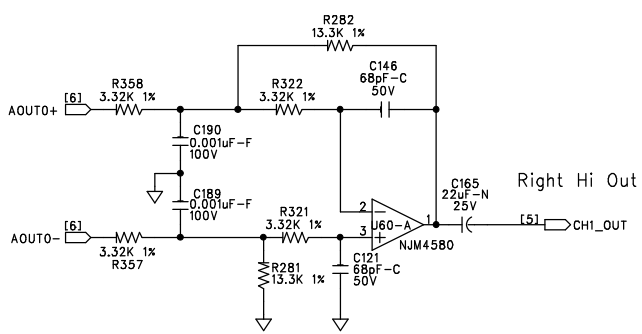


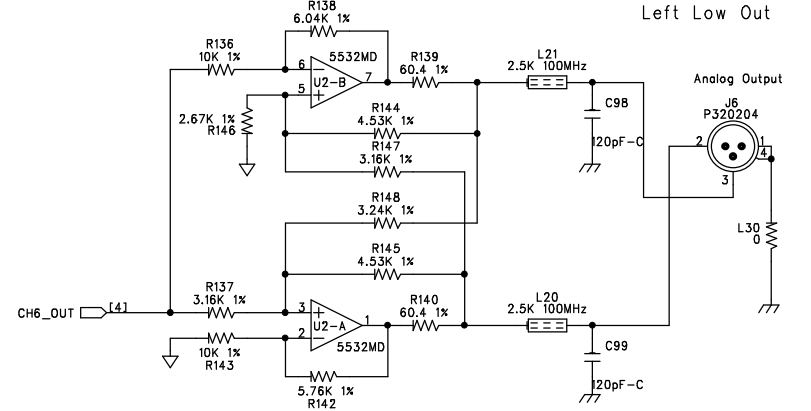
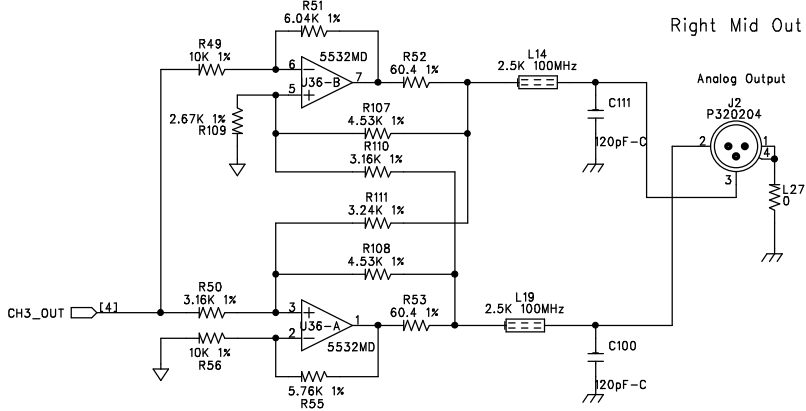
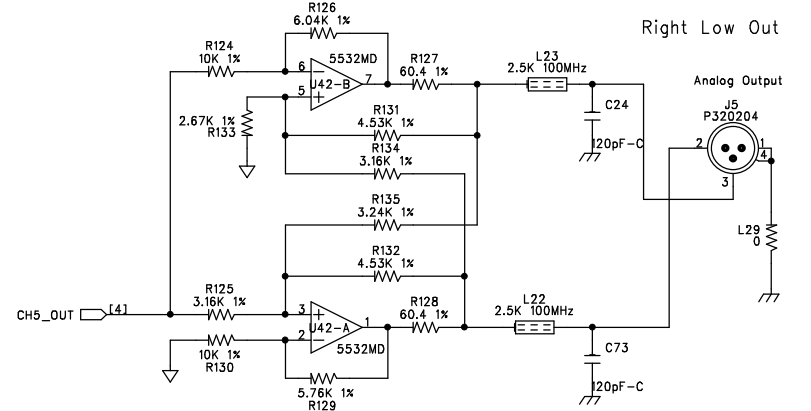
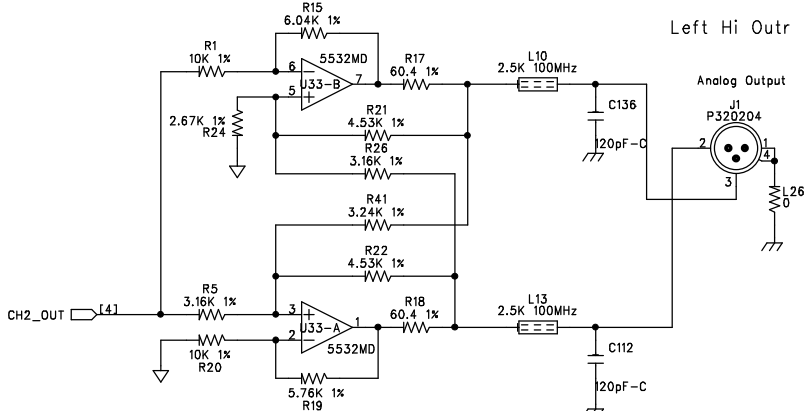
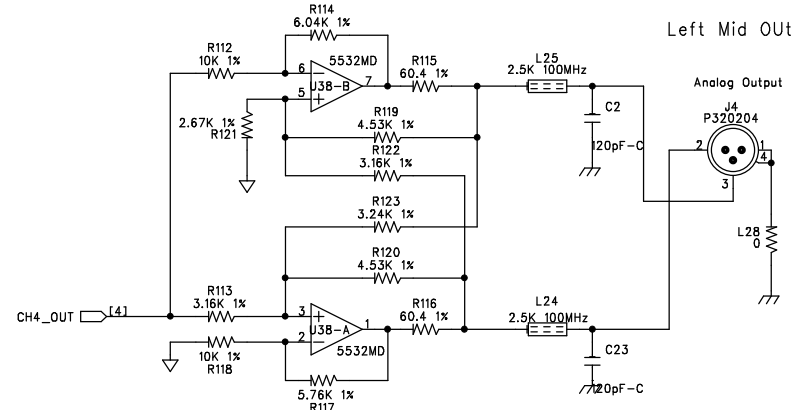
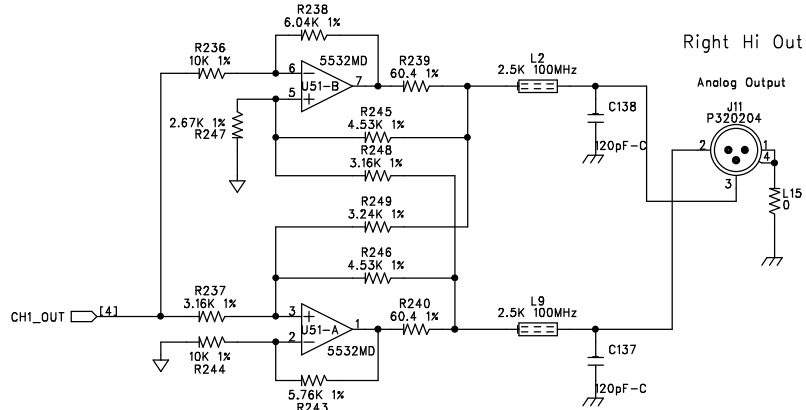
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SIZE: A	SHEET TITLE: CHANNEL 1 & 2 INPUTS	REVISION: F0
START DATE: 12-8-04	DRAWING NO: 05-1790	SHEET: 2 OF 15

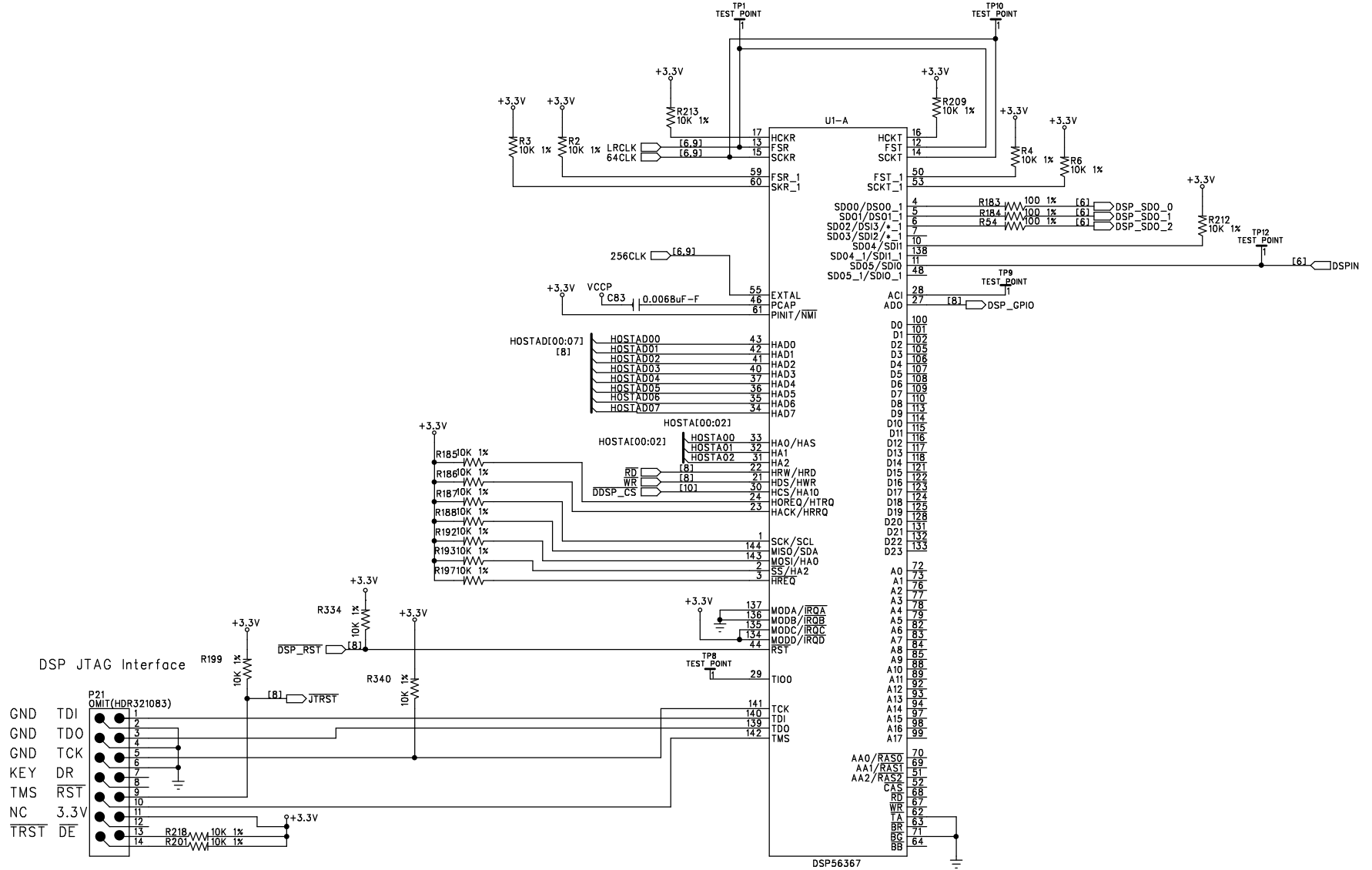


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START DATE: 12-8-04	DRAWING NO: 05-1790	SHEET: 3 OF 15



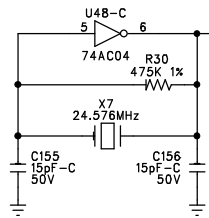


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DATE: 12-8-04	DRAWING NO: 05-1790	SHEET: 5 OF 15

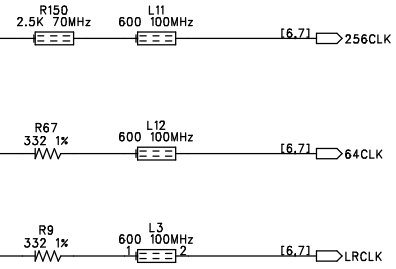
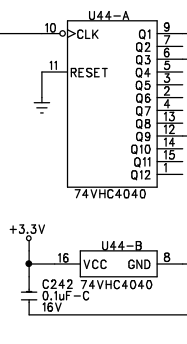


Divider/Clock Tree

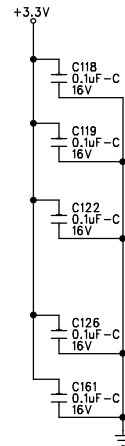
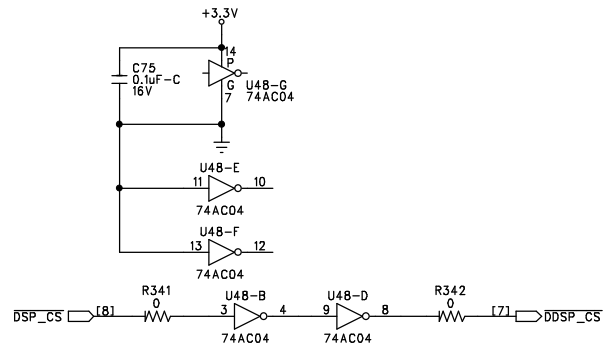
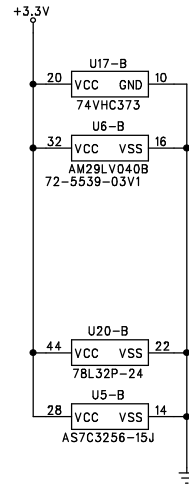
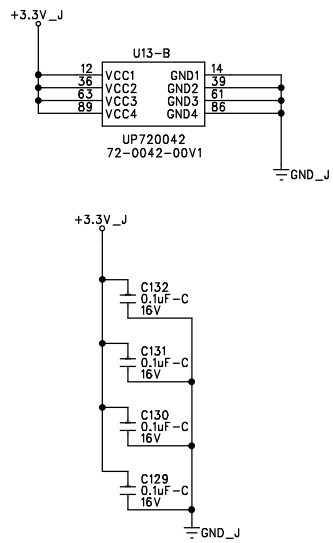
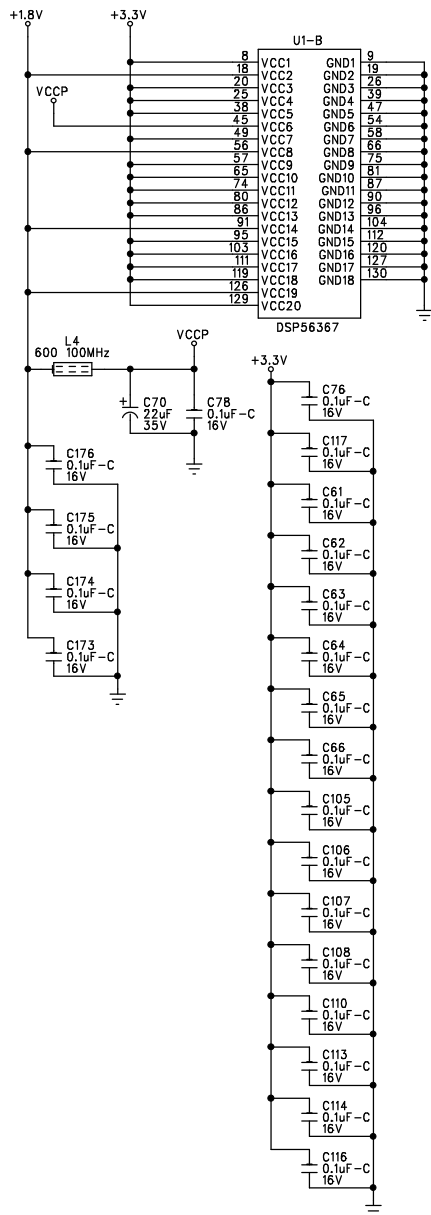
x512fs Crystal Oscillator
24.576 MHz



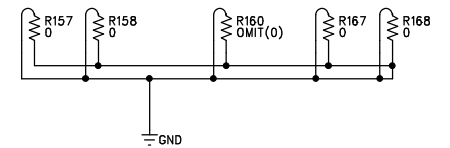
Change to 74VHC4040



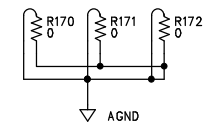
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DATE: 12-8-04	DRAWING NO: 05-1790	SHEET: 9 OF 15	



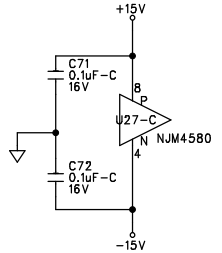
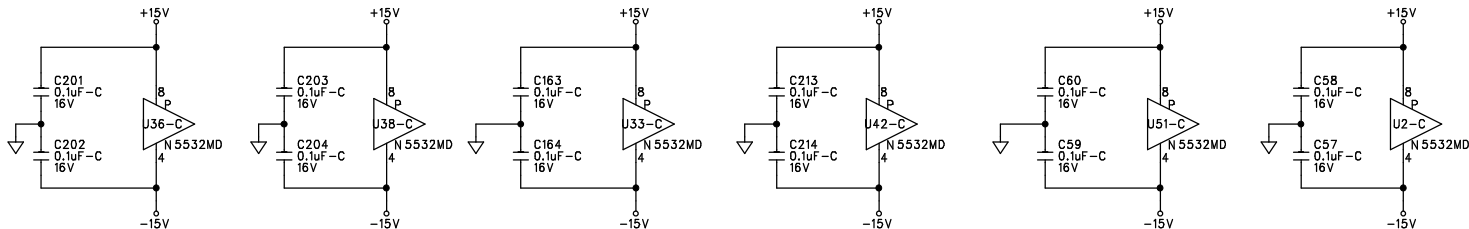
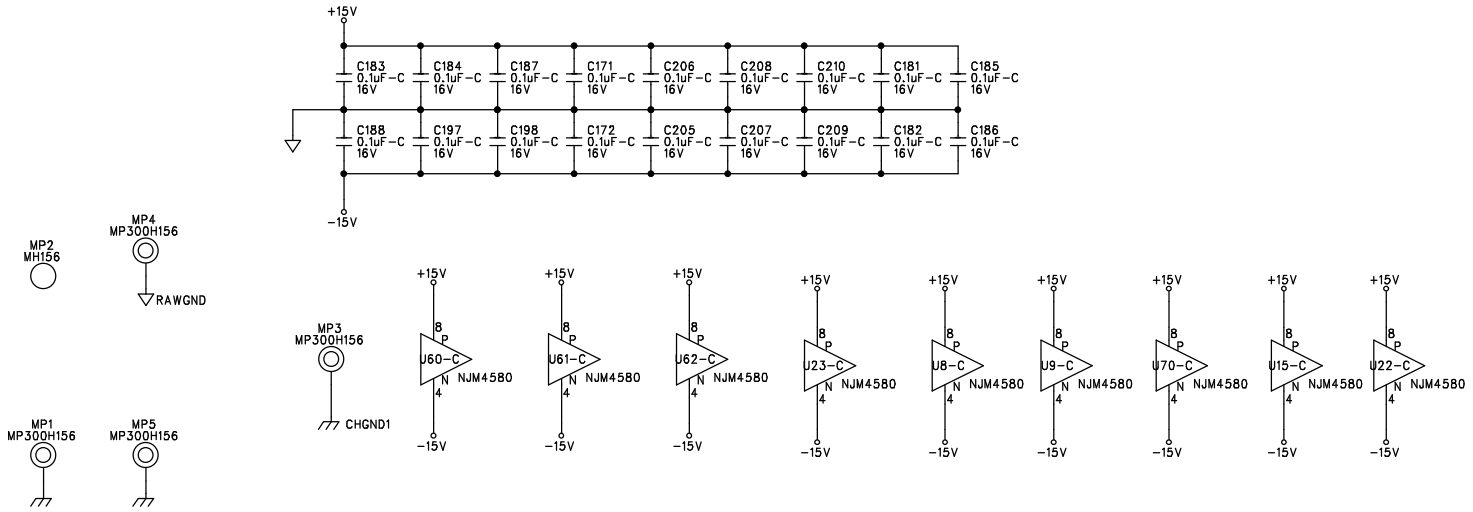
Digital Ground Test Points



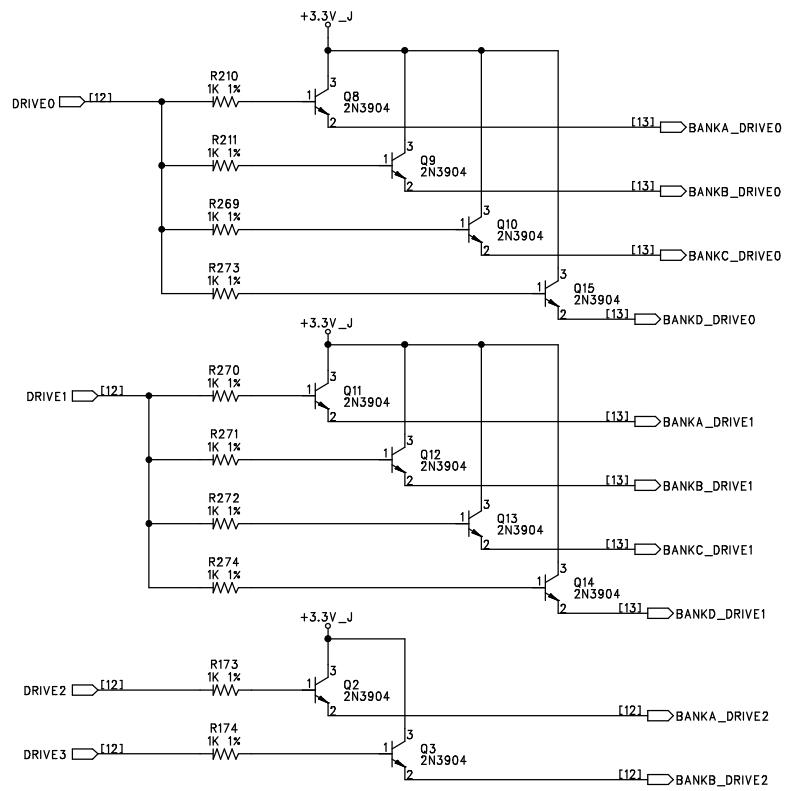
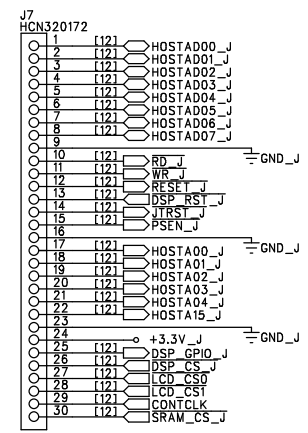
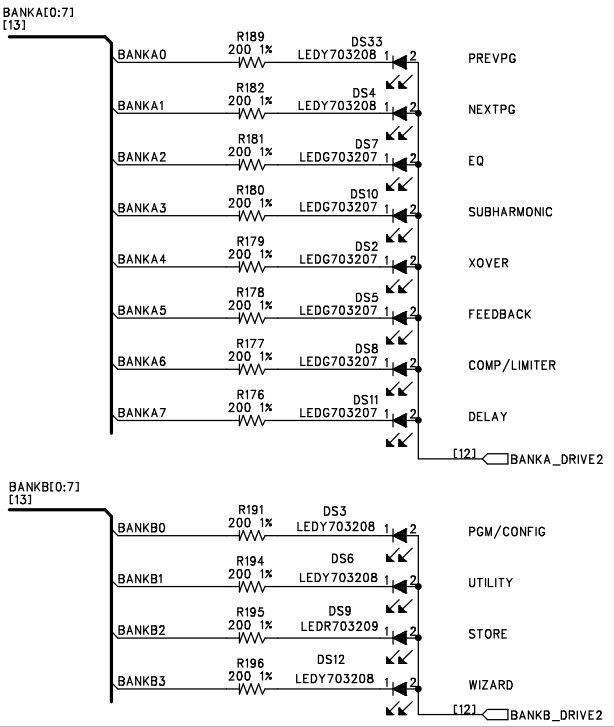
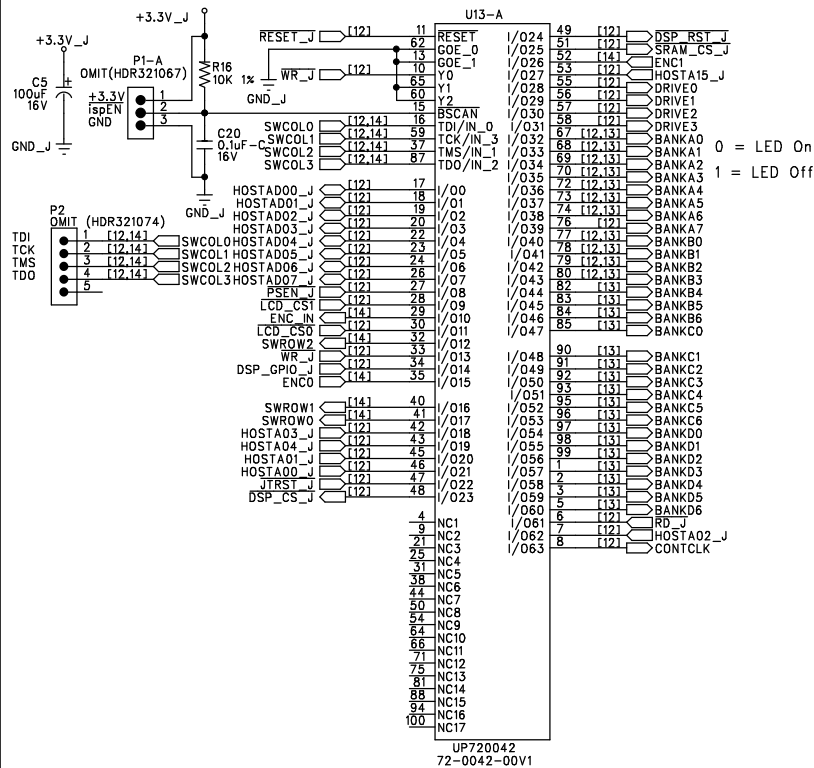
Analog Ground Test Points



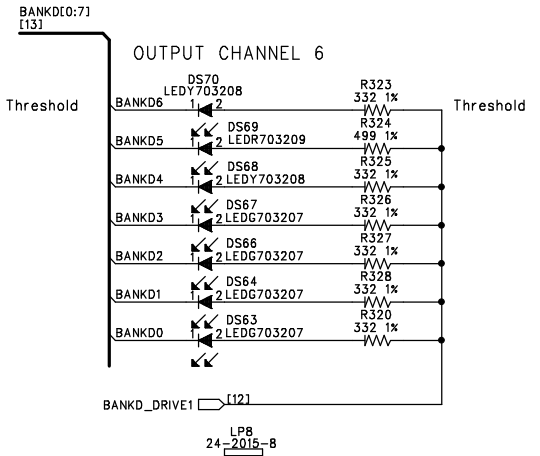
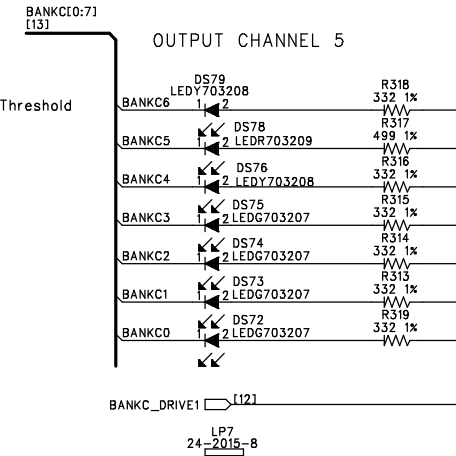
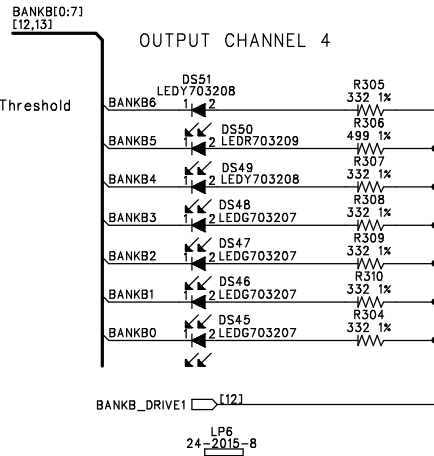
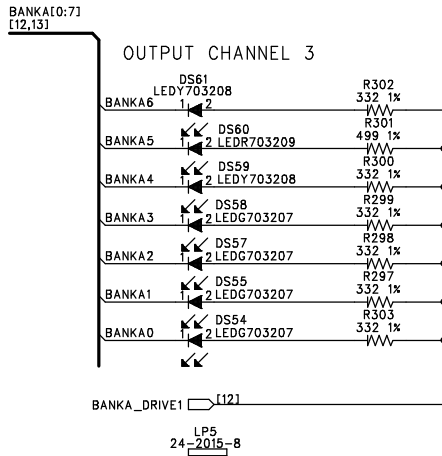
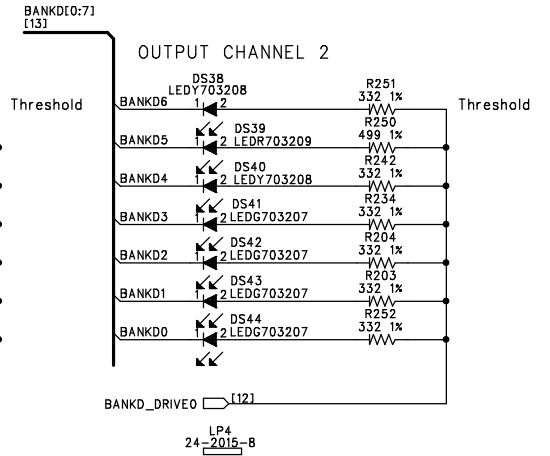
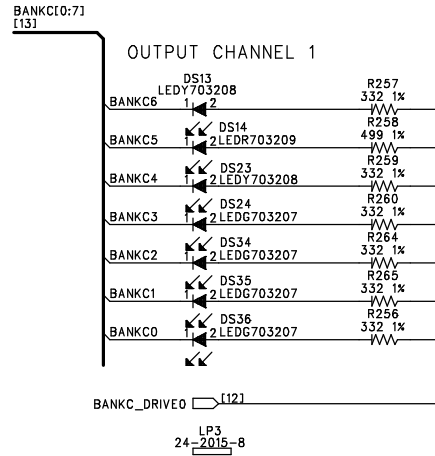
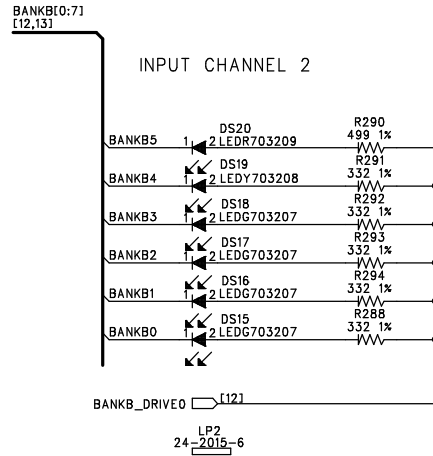
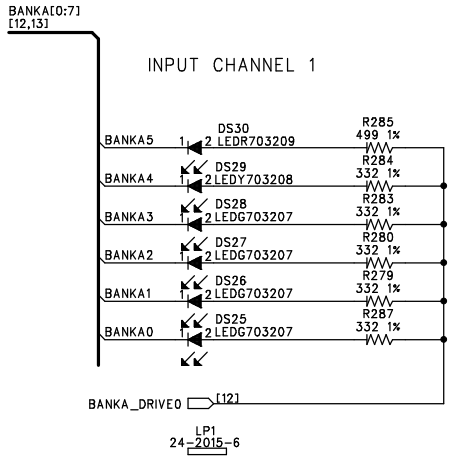
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DATE: 12-8-04	DRAWING NO: 05-1790	SHEET: 10 OF 15

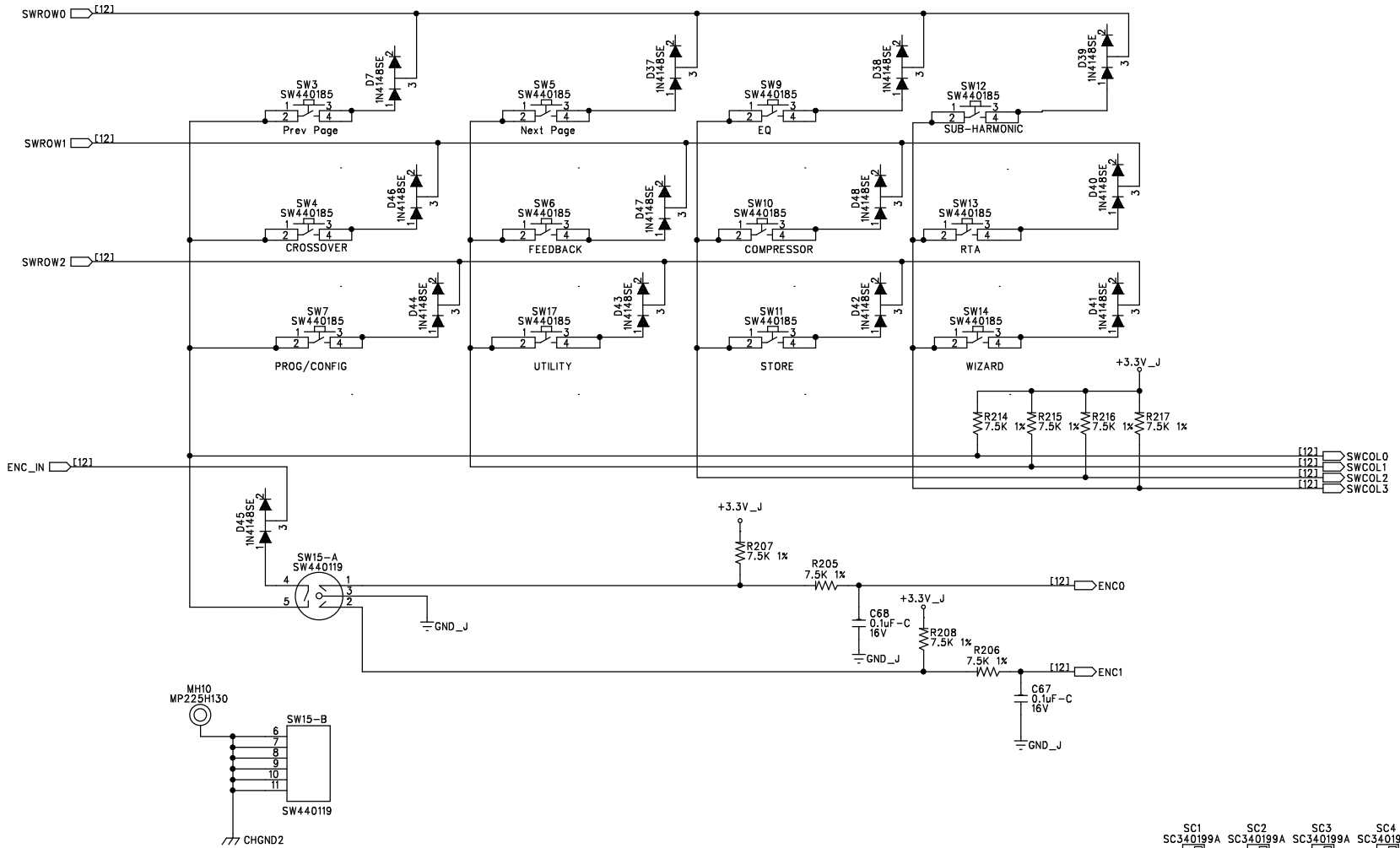


SIZE: A	SHEET TITLE: ANALOG POWER GATES	REVISION: F0
START DATE: 12-8-04	DRAWING NO: 05-1790	SHEET: 11 OF 15

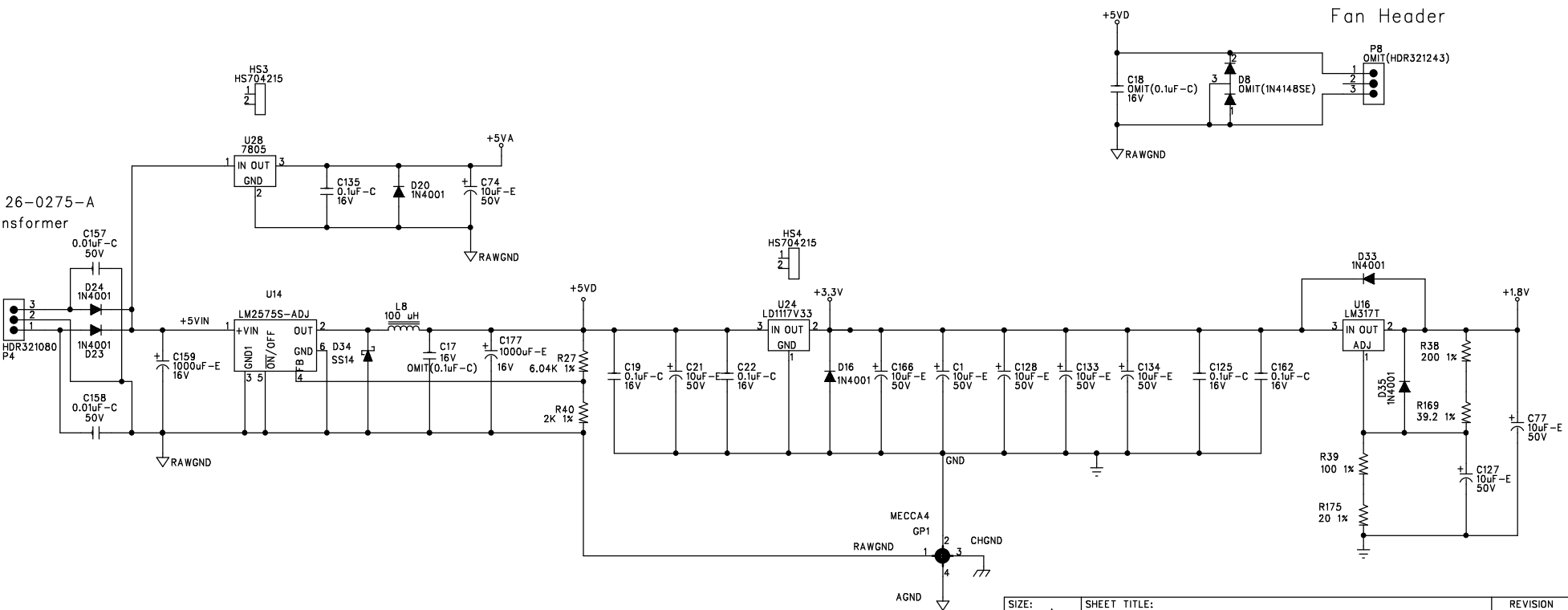
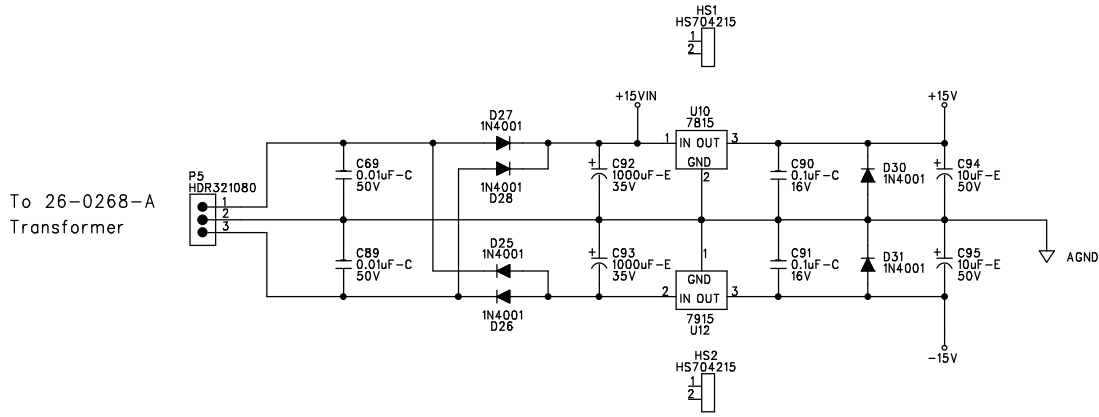


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DATE: 12-8-04	DRAWING NO: 05-1790	SHEET: 12 OF 15





- | | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| SC1 | SC2 | SC3 | SC4 | SC5 | SC6 |
| SC340199A | SC340199A | SC340199A | SC340199A | SC340199A | SC340199A |
| SC7 | SC8 | SC9 | SC10 | SC11 | SC12 |
| SC340199A | SC340199A | SC340199A | SC340199A | SC340199A | SC340199A |



SIZE: A	SHEET TITLE: POWER SUPPLY	REVISION: F0
DATE: 12-8-04	DRAWING NO: 05-1790	SHEET: 15 OF 15

Bill Of Materials for 051790F0.sch on Wed Dec 08 10:48:26 2004

Qty	Reference	HMG#	Description	Audit	Schematic Part	PCB Decal
1	P6	NON-PART	PAD ARRAY EDGE CONN 20 COND 0.1"LS	DWB122	20PIN-FINGERS	20PIN-FINGERS
1	PCB1	80-1790	PCB 80-1790 dbx DRIVERACK PA	PT2044	80XXXXXX	BARCODE
14	A7-18 A20 A22	NON-PART	NON-PART, PCB ONLY, BREAKOFF PART	PT1481	BRKOFF	BRKOFF
12	C6-7 C28 C30 C35-36	56-0000	CAP 0.001uF FILM PTR 100V 5% AF TA	PT1629	C0.001UF100JR	RFCC200
	C41-42 C47-48					
	C189-190					
1	C83	56-0005	CAP 0.0068uF FILM PTR 100V 5% RF TA	PT1307	C0.0068UF100JR	RFDC200
4	C69 C89 C157-158	62-1311	CAP 0.01uF CER 50V 20% Y5V 0603 TA	PT2665	C0.01UC50M0603	0603
2	C52 C97	56-0033	CAP 0.027uF FILM PTR 100V 5% RF TA	PT1282	C0.027UF100JR	RFEF200
91	C3-4 C19-20 C22 C27	62-1310	CAP 0.1uF CER 16V 20% Y5V 0603 TA	PT2696	C0.1UC16M0603	0603
	C34 C40 C57-68					
	C71-72 C75-76 C78					
	C90-91 C105-108					
	C110 C113-114					
	C116-119 C122					
	C125-126 C129-132					
	C135 C160-164					
	C168-169 C171-176					
	C181-188 C192					
	C196-210 C212-214					
	C216 C240 C242-244					
3	C17-18 C191	OMIT	OMIT CAP 0.1uF CER 16V 20% Y5V 0603 TA (62-1310)	PT2711	C0.1UC16M06030	0603
2	C87-88	56-0012	CAP 0.1uF FILM MTPPT 50V 5% RF TA	PT1200	C0.1UF50JR	RFEC200
2	C215 C217	62-3209	CAP 0.22uF CER 50V 10% X7R 1206 TA	PT2271	C0.22UC50K1206	1206
4	C226-229	62-1308	CAP 1000pF CER 50V 20% Y5V 0603 TA	PT2651	C1000PC50M0603	0603
2	C159 C177	60-0064	CAP 1000uF EL 16V 20% GP 10x17R 5LL BK	PT1334	C1000UE16MR	REM200P
2	C92-93	60-1073	CAP 1000uF EL 35V 20% HT 13x25R 5LL BK	PT1971	C1000UE35MR1	REQ200P
4	C5 C79-81	60-0201	CAP 100uF EL 16V 20% GP 6x8R 5LS TA	PT1378	C100UE16MR	REG200P
19	C1 C21 C74 C77	60-1074	CAP 10uF EL 50V 20% HT 5x11R 5LS TA	PT1972	C10UE50MR1	REE200P
	C94-95 C127-128					
	C133-134 C166 C170					
	C193-195 C211					
	C218-219 C241					
20	C2 C11-12 C23-26	62-1304	CAP 120pF CER 50V 5% NPO 0603 TA	PT2655	C120PC50J0603	0603
	C56 C73 C82 C84 C96					
	C98-100 C111-112					
	C136-138					
8	C123-124 C155-156	62-1300	CAP 15pF CER 50V 5% NPO 0603 TA	PT2659	C15PC50J0603	0603
	C222-225					
1	C70	60-0010	CAP 22uF EL 35V 20% GP 5x11R 5LS TA	PT2110	C22UE35MR	REE200P
10	C14 C33 C39 C45 C51	60-0402	CAP 22uF ELNP 25V 20% GP 6x11R 5LS TA	PT1084	C22UN25MR	REG200
	C147 C149 C152 C154					
	C165					
8	C53 C109 C143 C145	62-1306	CAP 330pF CER 50V 10% X7R 0603 TA	PT2653	C330PC50K0603	0603
	C148 C150-151 C153					
8	C9-10 C15-16 C29	62-1307	CAP 470pF CER 50V 10% X7R 0603 TA	PT2652	C470PC50K0603	0603
	C85-86 C115					
1	C140	62-1302	CAP 47pF CER 50V 5% NPO 0603 TA	PT2657	C47PC50J0603	0603
4	C54-55 C101-102	60-0054-01	CAP 47uF EL 16V 20% GP 5x11R 5LS TA	PT1108	C47UE16MR	REE200P
12	C8 C13 C31-32	62-1303	CAP 68pF CER 50V 5% NPO 0603 TA	PT2656	C68PC50J0603	0603
	C37-38 C43-44					
	C49-50 C121 C146					
12	D16 D20 D23-28	70-0000	DIO 1N4001 50V 1 AMP AMMO TA	PT1003	D1N4001-R	RDB200
	D30-31 D33 D35					
25	D1-7 D9 D13-15	70-0113	DIO MMBD4148SE DUAL 75V 600mA SOT-23 TA	PT1326	D1N4148SE-S	SOT-23
	D21-22 D37-48					
1	D8	OMIT	OMIT DIO MMBD4148SE DUAL 75V 600mA SOT-23 TA (70-0113)	PT1327	D1N4148SE-S-O	SOT-23
1	D34	70-0147	DIO SCHOTTKY 1A SS14 DO-214AC/SMA	PT1877	DSS14S	DO-214AC/SMA

051790F0.PPS

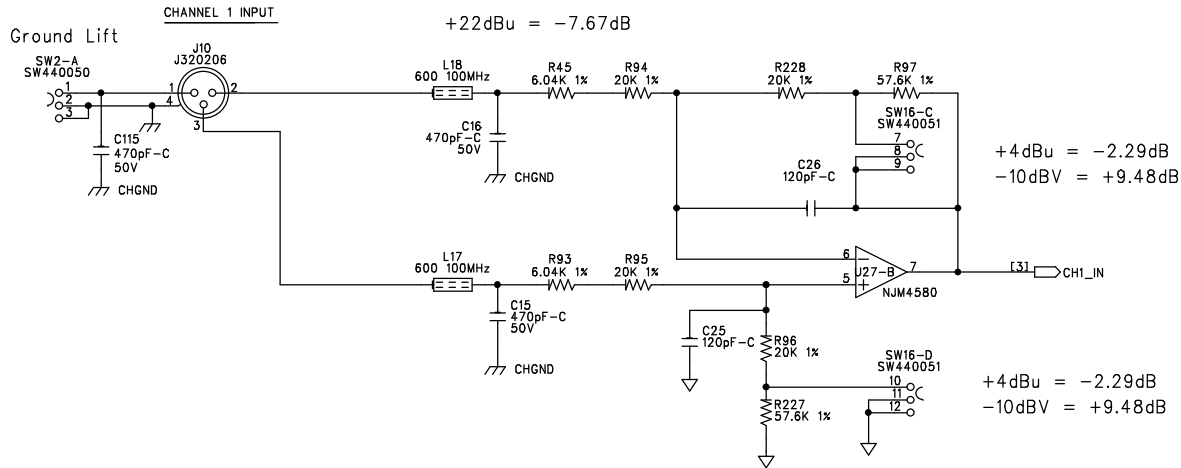
2	A4-5	NON-PART	NON-PART, FIDUCIAL, TARGET FOR AUTO INSERTION	PT1271 FIDUCIAL	FIDUCIAL
4	A1-3 A6	NON-PART	NON-PART FIDUCIAL TARGET FOR AI AND XRAY	PT2796 FIDUCIAL-XRAY	FIDUCIAL-XRAY
2	J7 J9	32-0172	HCN CONN 30 PIN .5 MM CNTS 1X30 FML RA	PT2724 HCN320172	HC320172
1	J12	32-0176	HCN CONN 20 PIN FEM VRT MNT SMT	PT2773 HCN320176	HC102V079050FS
1	P3	32-1055	HDR, 20 PIN, 0.1" SPC, 2 X 10, VERT, MALE	PT1340 HDR321055	HC102
2	P4-5	32-1080	HDR, 3 PIN, 0.1" SPC, 1 X 3, LCK, R/A, MALE	PT1073 HDR321080	HC3L
1	P1-A	OMIT	OMIT HDR 3 PIN 0.1" SPC 1 X 3 VERT MALE CUT FROM 14 PIN (32-1067)	PT2703 HDR321067-O	HC31
1	P2	OMIT	OMIT HDR 5 PIN 0.1" SPC 1 X 5 VERT MALE	PT2788 HDR321074-O	HC51M
1	P21	OMIT	OMIT HDR 14 PIN 0.1" SPC 2 X 7 VERT MALE (32-1083)	PT2127 HDR321083-O	HC72
1	H1	OMIT	OMIT, HDR, 5 PN, 0.079" SP, 1 X 5, 0.020" PS LK SD PO VT MA (32-1101)	PT1825 HDR321101-O	HC579LSPM
1	P8	OMIT	OMIT HDR 3 PIN .098 SPC 3X1 SHROUDED VERTICAL MT. (32-1243)	PT2795 HDR321243-O	HC31V98SP
4	HS1-4	70-4215	HEATSINK, TO-220, VERT	PT1339 HS704215	HS704215
3	J3 J8 J10	32-0206	CON, JACK, XLR, R/A, PCA A SERIES	PT1219 J320206	XLRF-1
1	LBL1	30-0121	LABEL BARCODE AUTOINSERTABLE RAW	PT2790 LABEL300121	LABEL300121
39	DS1-2 DS5 DS7-8	70-3207	LED GREEN D1206 T&R	PT1902 LEDG703207	D1206
	DS10-11 DS15-18				
	DS24-28 DS34-36				
	DS41-48 DS54-55				
	DS57-58 DS63-64				
	DS66-67 DS72-75				
10	DS9 DS14 DS20	70-3209	LED RED D1206 T&R	PT1901 LEDR703209	D1206
	DS30-31 DS39 DS50				
	DS60 DS69 DS78				
19	DS3-4 DS6 DS12-13	70-3208	LED YELLOW D1206 T&R	PT1900 LEDY703208	D1206
	DS19 DS23 DS29 DS33				
	DS38 DS40 DS49 DS51				
	DS59 DS61 DS68 DS70				
	DS76 DS79				
9	L1 L3-4 L6 L11-12	26-0000	IND FBD 600 OHM @ 100Hz 200mA 0603 TA	PT2728 LFB260000	0603
	L16-18				
12	L2 L9-10 L13-14	26-0001	IND FBD 2.5K OHM @ 100Hz, 50mA 0603 TA	PT2729 LFB260001	0603
	L19-25				
1	R150	26-0217	IND FBD 2.5K OHM @ 70MHz 0805 TA	PT1261 LFB260217	0805
1	L8	26-0002	IND PWR 100uH 3A	PT2754 LI260002	UP3B
2	LP1-2	NON-PART	NON-PART 6 POS NOT INSTALLED UNTIL MECHANICAL ASSY(LIGHT PIPE)	PT1967 LP242015-6	LP242015-6
6	LP3-8	NON-PART	NON-PART 8 POS NOT INSTALLED UNTIL MECHANICAL ASSY(LIGHT PIPE)	PT1968 LP242015-8	LP242015-8
1	GP1	NON-PART	NON-PART MECCA GND/PWR TIE POINT 4 POS	PT2482 MECCA4	MECCA4
6	MH3-6 MH8 MH12	NON-PART	NON-PART, MOUNTING HOLE, 0.130" NON-PLATED, #4	PT1242 MH130	MH130
2	MH7 MP2	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	PT2794 MH156-TOOL	MH156-TOOL
1	MH10	NON-PART	NON-PART MECHANICAL PLATED HOLE 225 PAD 130 HOLE #4	PT1998 MP225H130	MP225H130
4	MP1 MP3-5	NON-PART	NON-PART, MECHANICAL PLATED HOLE, 300 PAD, 156 HOLE, #6	PT1045 MP300H156	MP300H156
6	J1-2 J4-6 J11	32-0204	CON, PLUG, XLR, R/A, PCA A SERIES	PT1218 P320204	XLRM-1
1	Q1	70-1035	XSTR, 2N44402, PNP, SIGNAL, TO-92, AMMO	PT1527 Q2N44402	TO92(EBC)-V
10	Q2-3 Q8-15	70-1058	XSTR, 2N3904, NPN, SOT-23, T&R	PT1203 Q2N3904-S	SOT-23
21	L15 L26-30 R7 R11	50-1300	RES 0 5% 1/16W SM 0603 TA	PT2508 R0-B5-0603	0603
	R13 R35 R37 R91				
	R200 R222 R277 R289				
	R335 R338-339				
	R341-342				
6	R8 R10 R12 R58-59	OMIT	OMIT RES 0 5% 1/16W SM 0603 TA (50-1300)	PT2509 R0-B5-0603O	0603
	R295				
7	R157-158 R167-168	50-0317	RES 0 5% 1/4W CF RR TA	PT1008 R0-E5-R	RRA200
	R170-172				
1	R160	OMIT	OMIT RES 0 5% 1/4W CF RR TA (50-0317)	PT1596 R0-E5-RO	RRA200
2	R163-164	52-1340	RES 10.7K 1% 1/16W SM 0603 TA	PT2592 R10.7KB1-0603	0603
5	R39 R54 R183-184	52-1304	RES 100 1% 1/16W SM 0603 TA	PT2512 R100-B1-0603	0603
	R312				
4	R103-104 R253-254	52-1360	RES 100K 1% 1/16W SM 0603 TA	PT2613 R100KB1-0603	0603
43	R1-4 R6 R14 R16 R20	52-1338	RES 10K 1% 1/16W SM 0603 TA	PT2584 R10KB1-0603	0603
	R23 R28-29 R36 R49				
	R56 R112 R118 R124				

	R130 R136 R143 R159							
	R185-188 R192-193							
	R197 R199 R201 R209							
	R212-213 R218-219							
	R223 R236 R244 R266							
	R334 R340 R383-384							
12	R34 R57 R64-65	52-1342	RES 13.3K 1%	1/16W SM 0603 TA		PT2594 R13.3KB1-0603	0603	
	R72-73 R80-81							
	R88-89 R281-282							
1	R267	52-1362	RES 150K 1%	1/16W SM 0603 TA		PT2615 R150KB1-0603	0603	
1	R153	52-1344	RES 15K 1%	1/16W SM 0603 TA		PT2596 R15KB1-0603	0603	
4	R92 R149 R233 R235	52-1305	RES 169 1%	1/16W SM 0603 TA		PT2513 R169-B1-0603	0603	
11	R156 R173-174	52-1313	RES 1K 1%	1/16W SM 0603 TA		PT2550 R1KB1-0603	0603	
	R210-211 R269-274							
1	R336	52-1372	RES 1M 1%	1/16W SM 0603 TA		PT2625 R1MB1-0603	0603	
4	R74 R90 R226 R232	52-1317	RES 2.21K 1%	1/16W SM 0603 TA		PT2555 R2.21KB1-0603	0603	
10	R24 R66 R83 R109	52-1319	RES 2.67K 1%	1/16W SM 0603 TA		PT2557 R2.67KB1-0603	0603	
	R121 R133 R146 R190							
	R231 R247							
2	R175 R337	52-1300	RES 20 1%	1/16W SM 0603 TA		PT2507 R20-B1-0603	0603	
16	R38 R43 R176-182	52-1306	RES 200 1%	1/16W SM 0603 TA		PT2514 R200-B1-0603	0603	
	R189 R191 R194-196							
	R332-333							
8	R46-48 R94-96 R224	52-1346	RES 20K 1%	1/16W SM 0603 TA		PT2598 R20KB1-0603	0603	
	R228							
1	R255	52-1364	RES 221K 1%	1/16W SM 0603 TA		PT2617 R221KB1-0603	0603	
13	R40 R75 R82 R98-100	52-1316	RES 2K 1%	1/16W SM 0603 TA		PT2553 R2KB1-0603	0603	
	R154-155 R221							
	R229-230 R241 R262							
12	R5 R26 R50 R110	52-1322	RES 3.16K 1%	1/16W SM 0603 TA		PT2560 R3.16KB1-0603	0603	
	R113 R122 R125 R134							
	R137 R147 R237 R248							
6	R41 R111 R123 R135	52-1323	RES 3.24K 1%	1/16W SM 0603 TA		PT2561 R3.24KB1-0603	0603	
	R148 R249							
26	R25 R31-33 R60-63	52-1324	RES 3.32K 1%	1/16W SM 0603 TA		PT2562 R3.32KB1-0603	0603	
	R68-71 R76-79							
	R84-87 R105 R165							
	R321-322 R357-358							
50	R9 R67 R161-162	52-1307	RES 332 1%	1/16W SM 0603 TA		PT2543 R332-B1-0603	0603	
	R203-204 R234 R242							
	R251-252 R256-257							
	R259-260 R264-265							
	R279-280 R283-284							
	R287-288 R291-294							
	R297-300 R302-305							
	R307-310 R313-316							
	R318-320 R323							
	R325-328							
6	R101-102 R152 R261	50-1325	RES 33K 5%	1/16W SM 0603 TA		PT2589 R33KB5-0603	0603	
	R263 R275							
1	R169	52-1301	RES 39.2 1%	1/16W SM 0603 TA		PT2515 R39.2-B1-0603	0603	
1	R382	52-1355	RES 39.2K 1%	1/16W SM 0603 TA		PT2608 R39.2KB1-0603	0603	
13	R21-22 R107-108	52-1327	RES 4.53K 1%	1/16W SM 0603 TA		PT2565 R4.53KB1-0603	0603	
	R119-120 R131-132							
	R144-145 R245-246							
	R364							
1	R30	52-1368	RES 475K 1%	1/16W SM 0603 TA		PT2621 R475KB1-0603	0603	
2	R330-331	52-1356	RES 49.9K 1%	1/16W SM 0603 TA		PT2609 R49.9KB1-0603	0603	
17	R151 R198 R202 R250	52-1308	RES 499 1%	1/16W SM 0603 TA		PT2545 R499-B1-0603	0603	
	R258 R278 R285-286							
	R290 R296 R301 R306							
	R311 R317 R324 R329							
	R365							

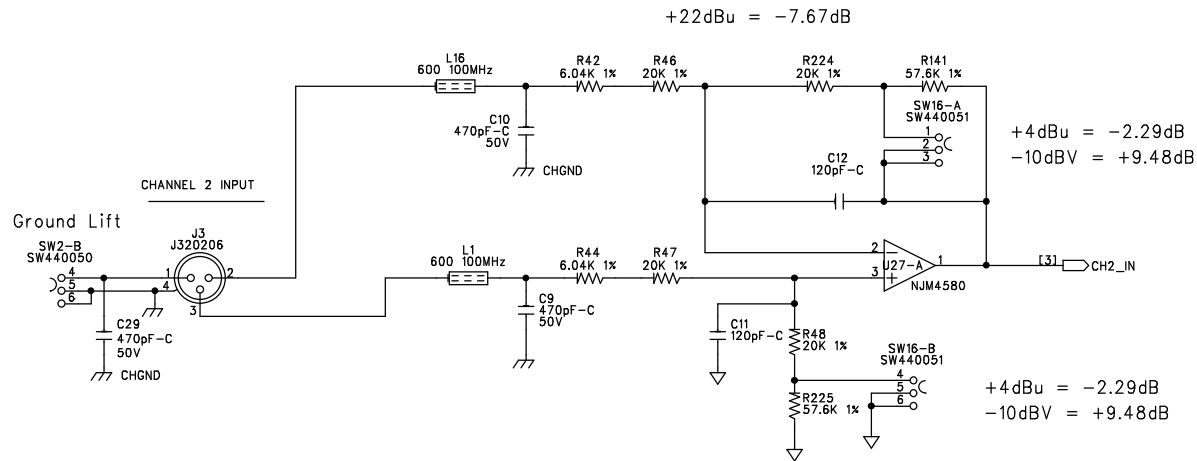
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6	R19 R55 R117 R129 R142 R243	52-1331	RES 5.76K 1% 1/16W SM 0603 TA	PT2576	R5.76KB1-0603	0603	
4	R97 R141 R225 R227	52-1357	RES 57.6K 1% 1/16W SM 0603 TA	PT2610	R57.6KB1-0603	0603	
11	R15 R27 R42 R44-45 R51 R93 R114 R126 R138 R238	52-1332	RES 6.04K 1% 1/16W SM 0603 TA	PT2577	R6.04KB1-0603	0603	
12	R17-18 R52-53 R115-116 R127-128 R139-140 R239-240	52-1303	RES 60.4 1% 1/16W SM 0603 TA	PT2511	R60.4-B1-0603	0603	
1	R268	52-1358	RES 63.4K 1% 1/16W SM 0603 TA	PT2611	R63.4KB1-0603	0603	
1	R220	52-1311	RES 681 1% 1/16W SM 0603 TA	PT2548	R681-B1-0603	0603	
9	R205-208 R214-217 R276	52-1335	RES 7.5K 1% 1/16W SM 0603 TA	PT2581	R7.5KB1-0603	0603	
2	R106 R166	52-1336	RES 8.06K 1% 1/16W SM 0603 TA	PT2582	R8.06KB1-0603	0603	
2	SC14-15	34-0125	SWITCH CAP, BLACK, ROUND	PT1354	SC340125	SC340125-FPE	
1	SC13	34-0198-C	SWITCH CAP LIGHT PIPE SNGL LED HORZ	PT2504	SC340198C	SC340198C	
12	SC1-12	34-0199-A	SWITCH CAP dbx LIGHTED	PT2024	SC340199A	PCBNULL	
1	SW2	44-0050	SWITCH DPDT MINI IN-OUT 6 PIN E-SWITCH	PT1256	SW440050	SW440050	
2	SW1 SW16	44-0051	SWITCH, 4PDT, MINI IN-OUT, 12 PIN, E-SWITCH	PT1257	SW440051	SW440051	
1	SW15	44-0119	ENCODER 20mm D SHAFT 30 POS W/SWITCH VERT MOUNT	PT1890	SW440119	SW440119	
12	SW3-7 SW9-14 SW17	44-0185	SWITCH, SPST, LITE TOUCH, MINI, W/ PROJECTED PLUNGER SMT	PT1962	SW440185	SW44PTACT-3	
7	TP1-2 TP4 TP8-10 TP12	NON-PART	NON-PART, TEST POINT, ENGINEERING PROBE POINT	PT1653	TESTPOINT	TESTPOINTSM	
1	U28	70-4014	V-REG, 7805, +5V, 1.5 AMP, TO-220	PT1591	U7805	TO220(IGO)-V	
1	U10	70-4123	V-REG, 7815, +15V, 1 AMP, TO-220	PT1592	U7815	TO220(IGO)-V	
1	U12	70-4124	V-REG, 7915, -15V, 1 AMP, TO-220	PT1594	U7915	TO220(GIO)-V	
1	U7	72-0046	IC 25AA640 64K SERIAL EEPROM TA	PT2774	U25AA260	SO8	
1	U5	72-6318	IC 32K x 8 SRAM 15ns SOJ28	PT2294	U32K8S15-J	SOJ28-300	
6	U2 U33 U36 U38 U42 U51	72-1439	IC, 5532MD, DUAL BIPOLAR OPAMP, SO8-200	PT1306	U5532MD-S	SO8-200	
2	U25 U48	72-5426	IC, 74AC04, HEX INVERTER, SO14, T&R	PT1325	U74AC04-S	SO14	
1	U21	72-5437	IC 74VHC273 FLIP-FLOP OCTAL-D SO20W T&R	PT1909	U74VHC273-S	SO20W	
1	U17	72-0045	IC 74VHC373 OCTAL LATCH SO20W	PT2771	U74VHC373-S	SO20W	
1	U44	72-0044	IC 74VHC4040 12 BIT RIPPLE COUNTER SO16	PT2759	U74VHC4040-S	SO16	
1	U20	72-6316	IC 78L32P-24 8 BIT MICROCONTROLLER 3.3V	PT2316	U78L32P-24	PLCC-44	
1	U11	72-1485	IC AK4356 192kHz 24 BIT 6 CHANNEL DAC	PT2717	UAK4356-Q	QFP44-10X10	
1	U26	72-1266	IC, AK5383, 96 kHz, DUAL 24BIT ADC, SO28W	PT1557	UAK5383-S	SO28W	
1	U1	72-6305	IC DSP56367 DSP 150MHZ QFP144-20X20	PT2452	UDSP56367-Q	QFP144-20X20	
1	U24	70-4021	V-REG, LD1117V33, +3.3V, 0.8 AMP, TO-220, BULK	PT1795	ULD1117V33	TO220(GOI)-V	
1	U14	70-0063	V-REG LM2575S-ADJ SWITCHING REG 1A TO-263(5)	PT2739	ULM2575S-ADJ	TO-263(5)	
1	U16	70-4007	V-REG, LM317T, ADJ REG, 1.5 AMP, TO-220	PT1785	ULM317T	TO220(AOI)-V	
2	U4 U18	72-5434	IC NC7SZ125 TINYLOGIC BUFFER SOT23-5 TA	PT1881	UNC7SZ125-S	SOT23-5	
1	U3	72-6308	IC NCP304 VOLTAGE DETECTOR SC-82AB	PT2393	UNCP304	SC-82AB	
11	U8-9 U15 U19 U22-23 U27 U60-62 U70	72-1480	IC NJM4580 DUAL OP-AMP SO8	PT1374	UNJM4580-S	SO8	
1	U13	72-0042-00V1	IC CPLD ispLSI2064VE dbx Driverack PA V1	PT2785	UP720042	QFP100-14X14	
1	U6	72-5539-03V1	IC AM29LV040B 512K x 8 FLASH MEMORY dbx Driverack PA V1	PT2292	UP725539	PLCC/R-32	
1	Y3	76-0202	XTAL 24.000MHZ METAL CAN SURFACE MOUNT T&R	PT1928	Y24.000M760202	XTAL2-V	
1	X7	76-0006	XTAL 24.576MHZ SMT CX16F/CS49G PKG	PT2713	Y24.576M760006	YCX16F/CX49G	

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SCI4
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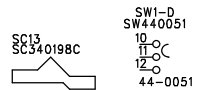
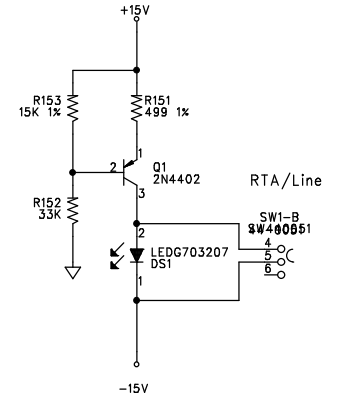
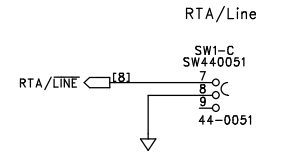
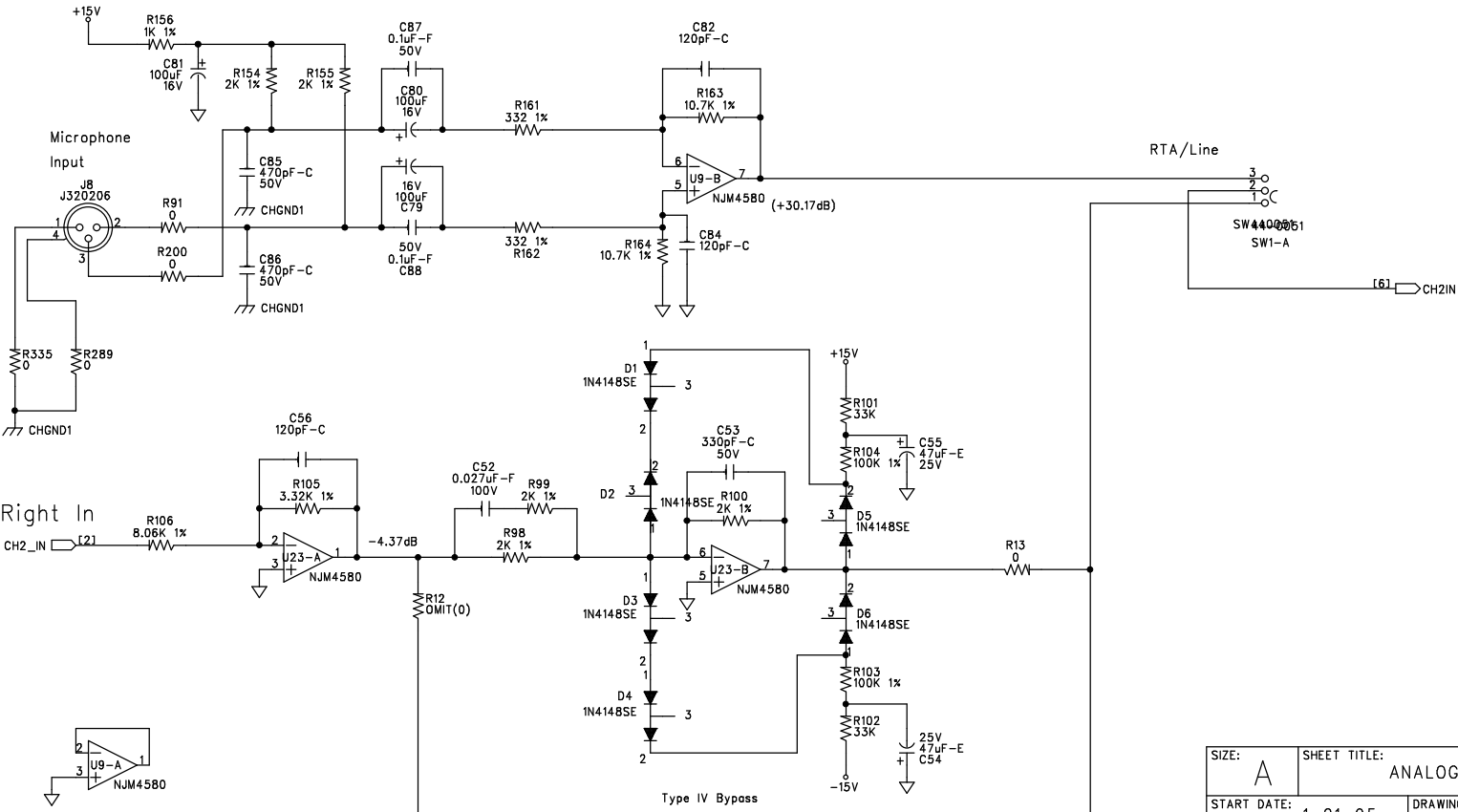
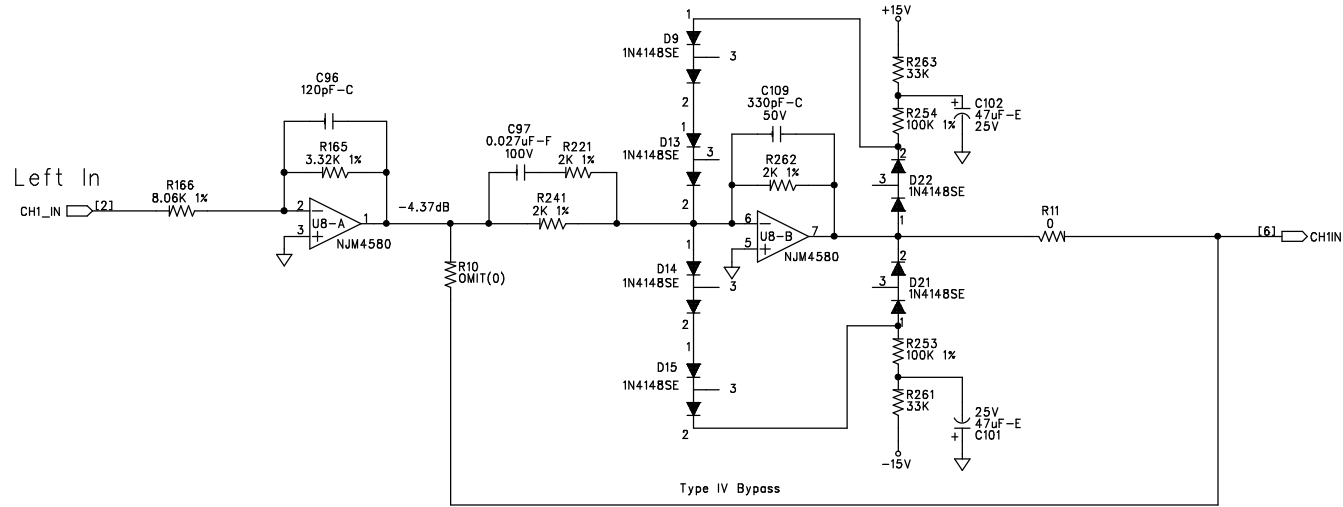


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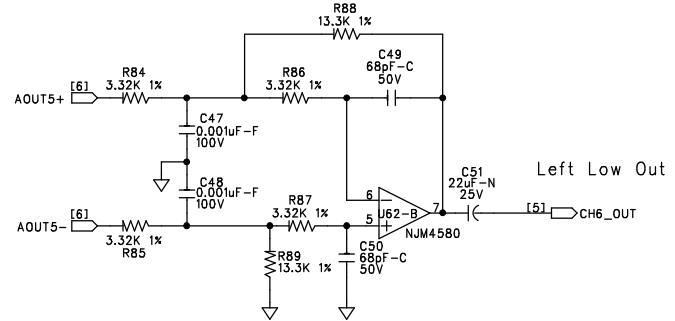
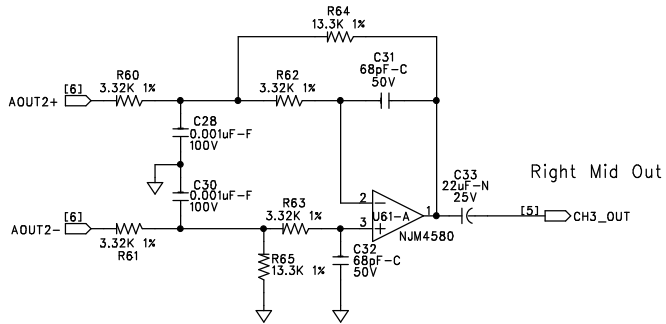
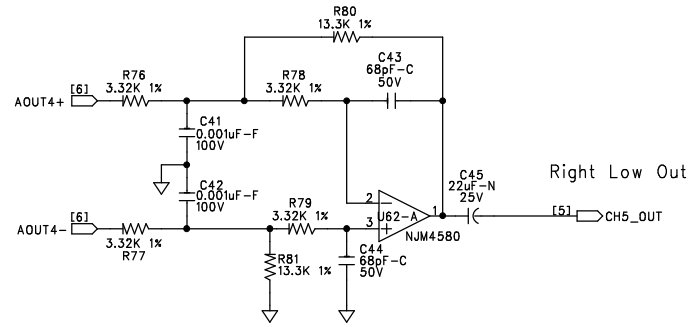
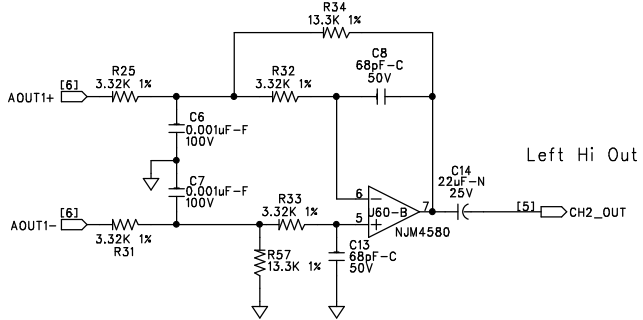
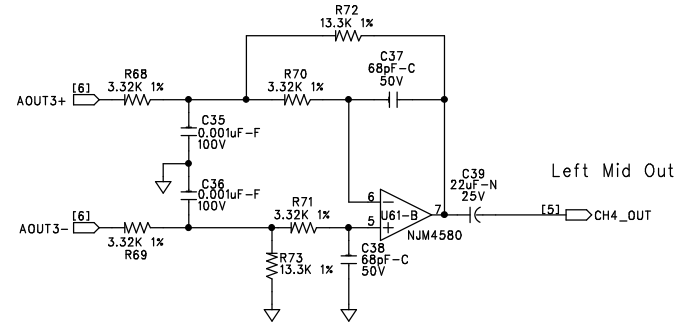
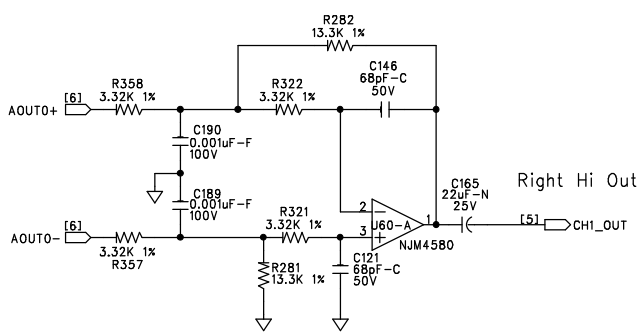


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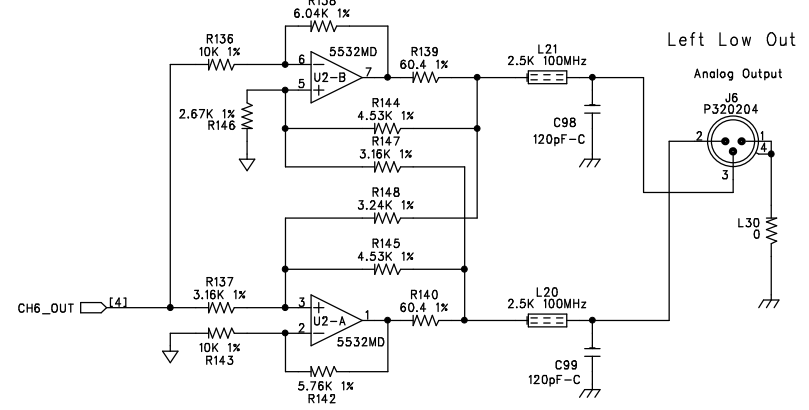
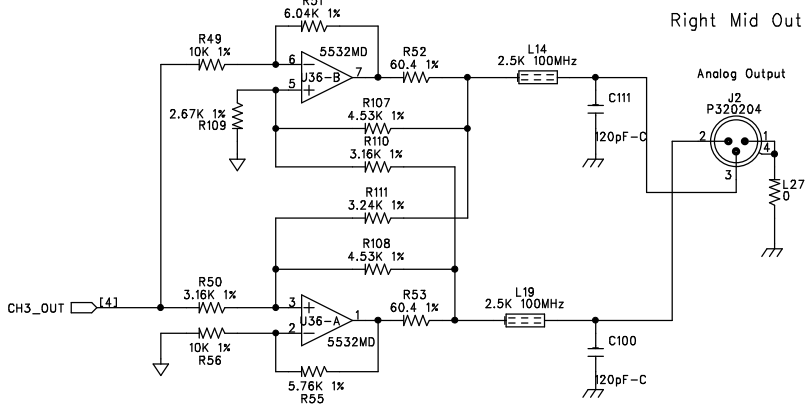
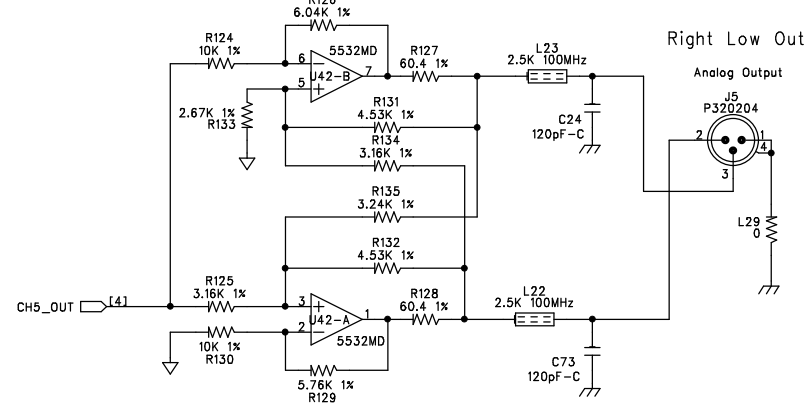
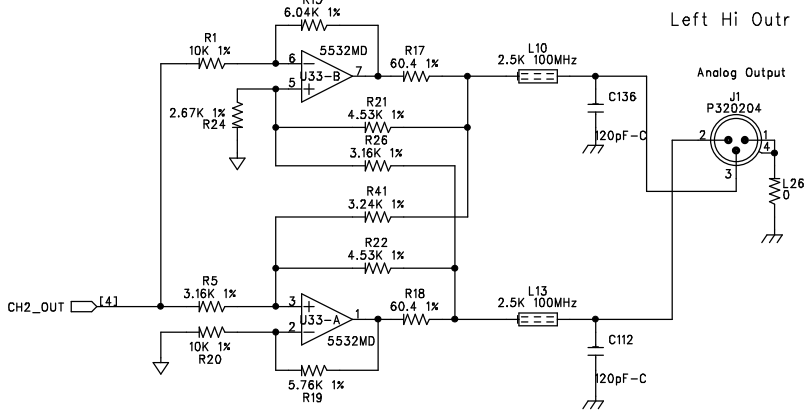
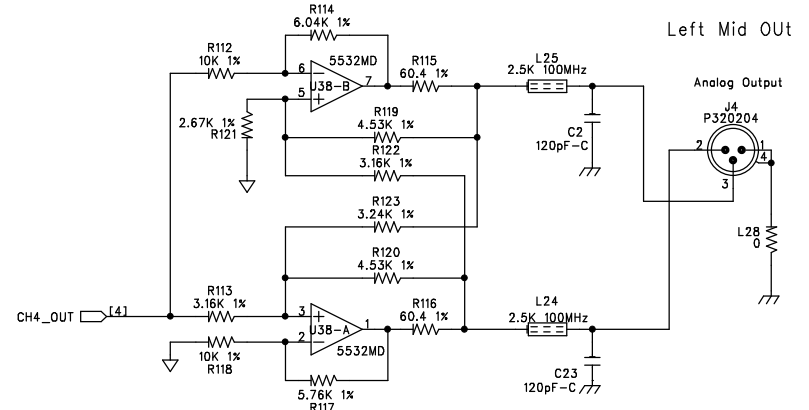
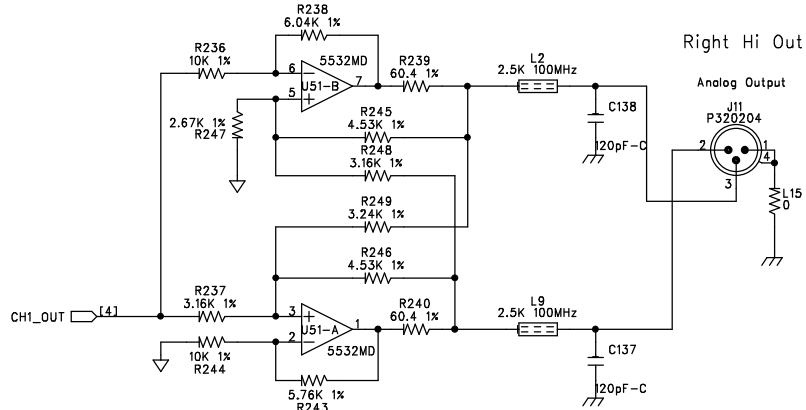
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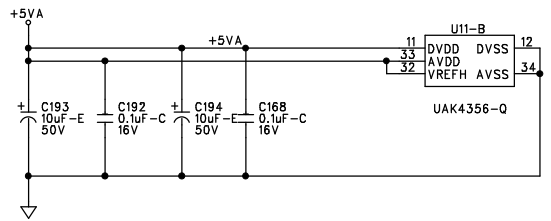
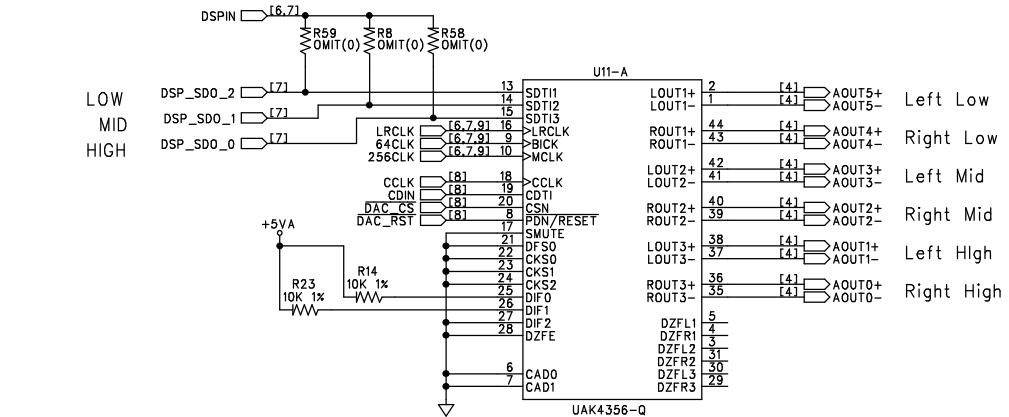
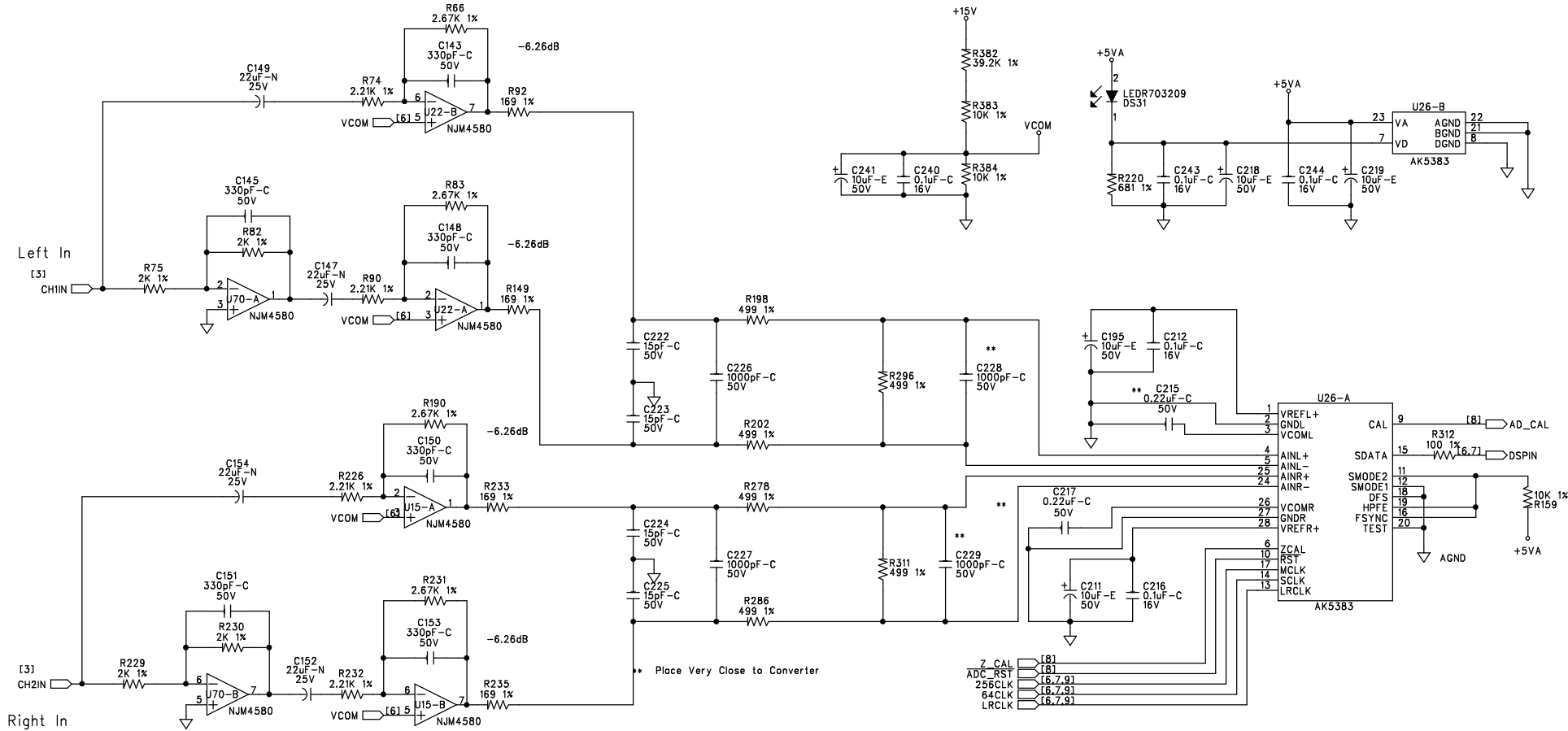
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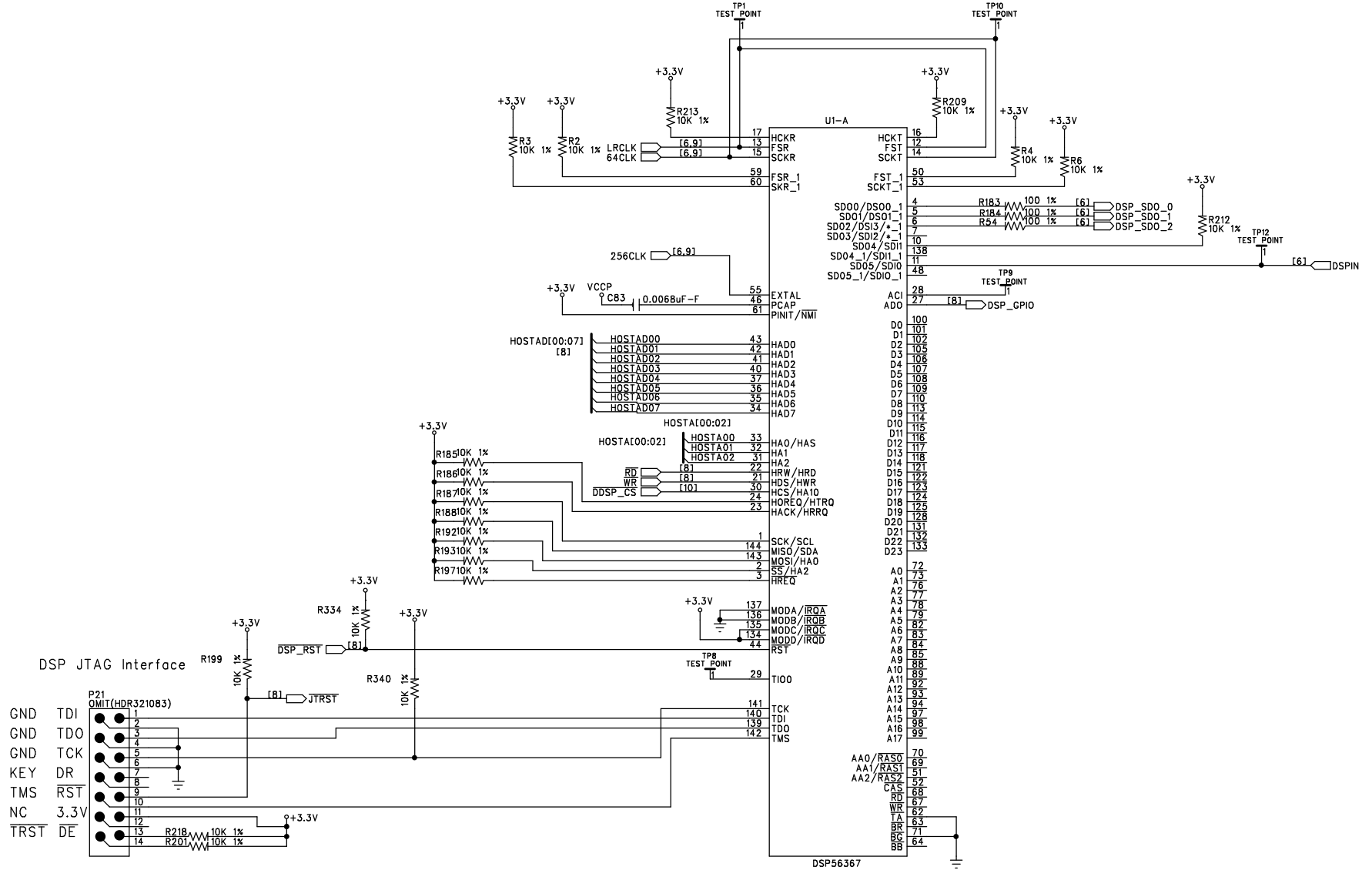
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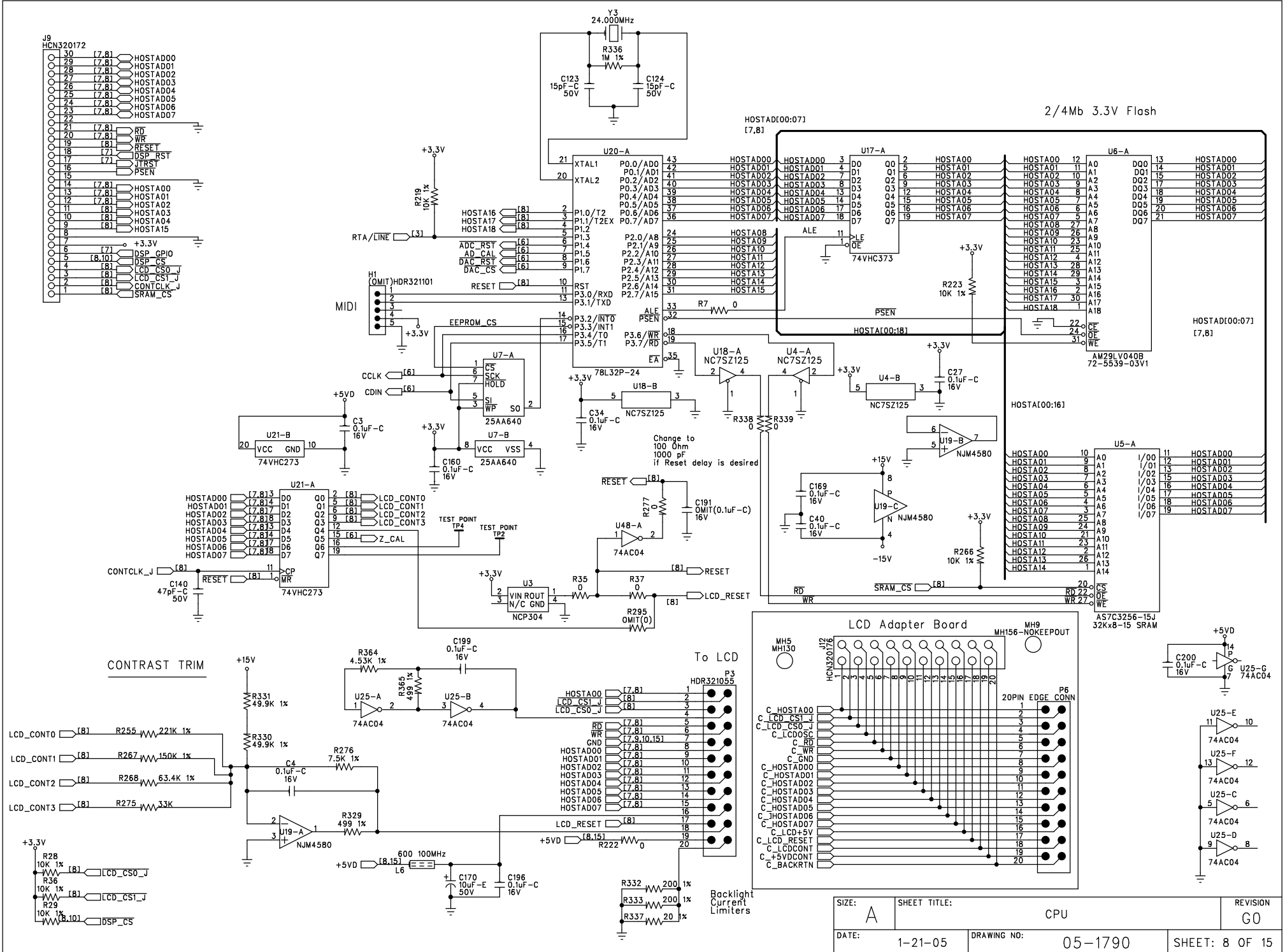


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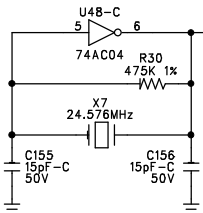




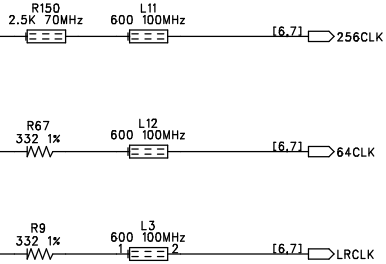
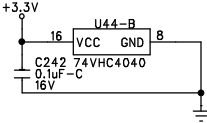
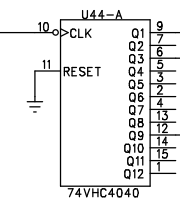
SIZE: A	SHEET TITLE: CPU	REVISION: G0
DATE: 1-21-05	DRAWING NO: 05-1790	SHEET: 8 OF 15

Divider/Clock Tree

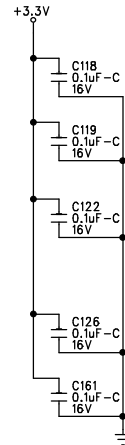
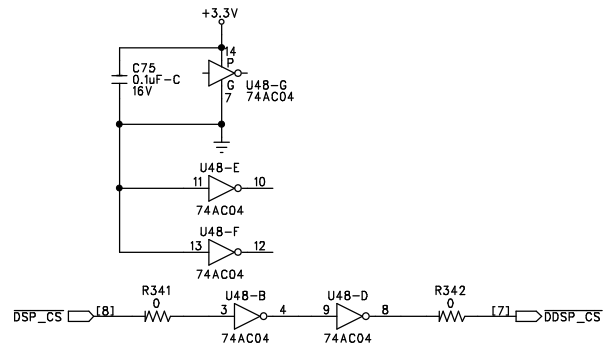
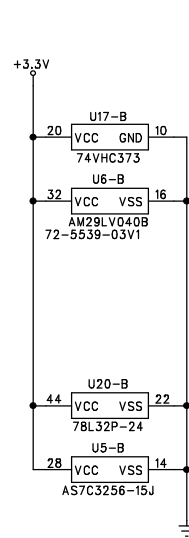
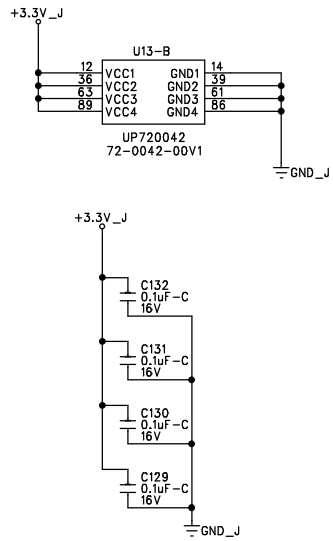
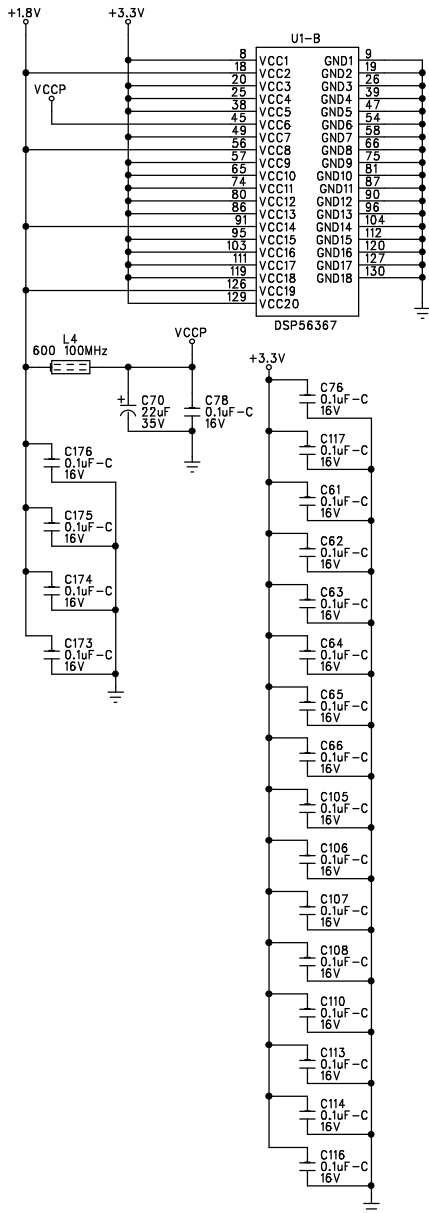
x512fs Crystal Oscillator
24.576 MHz



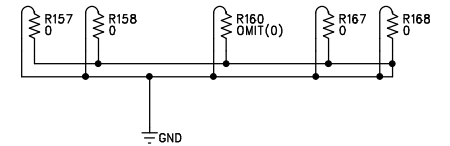
Change to 74VHC4040



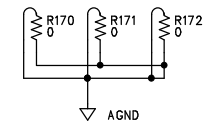
SIZE: A	SHEET TITLE: CLOCKS		REVISION G0
DATE: 1-21-05	DRAWING NO: 05-1790	SHEET: 9 OF 15	



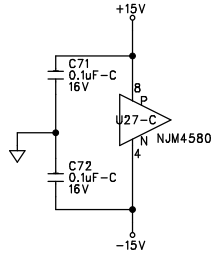
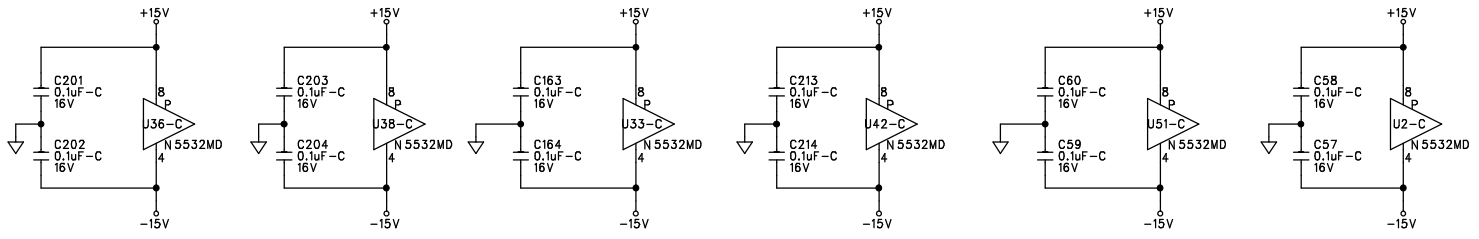
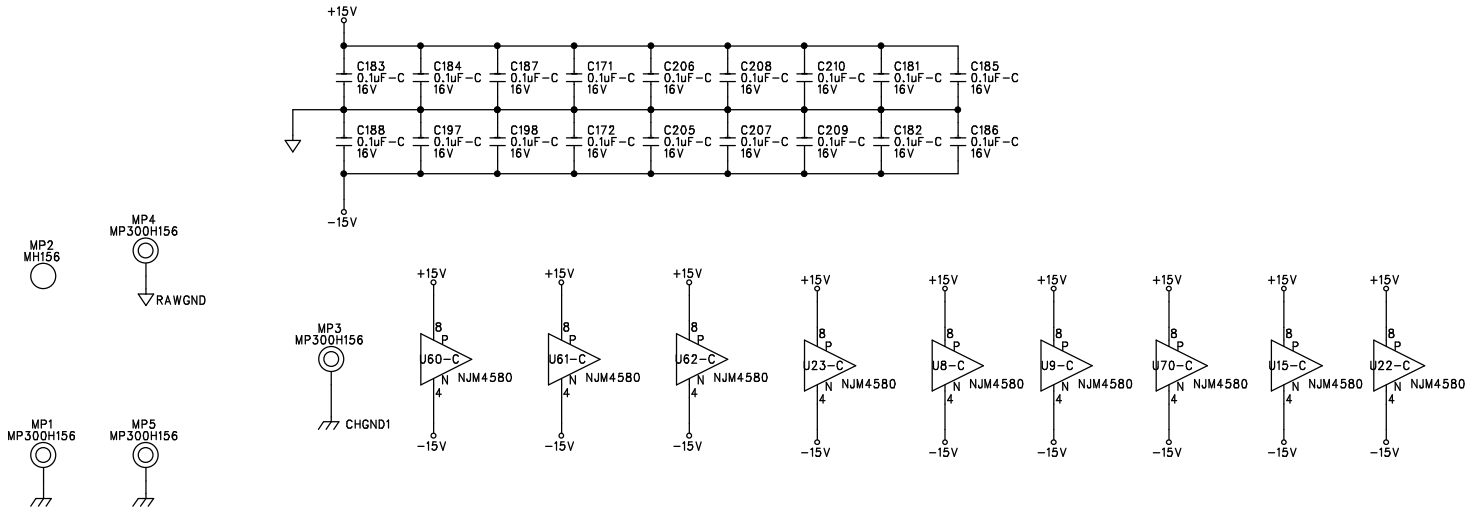
Digital Ground Test Points



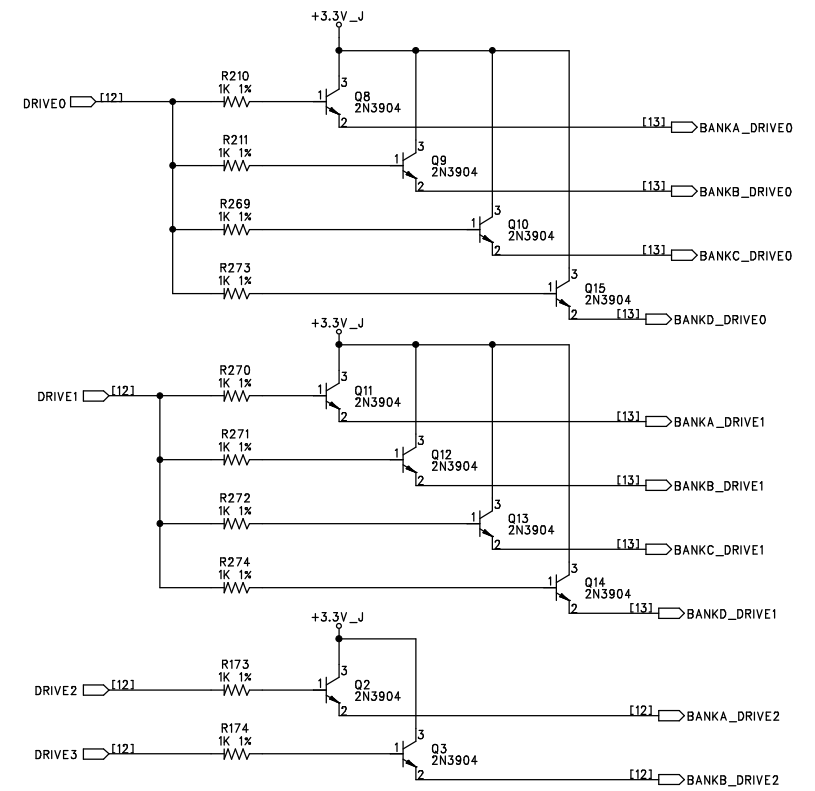
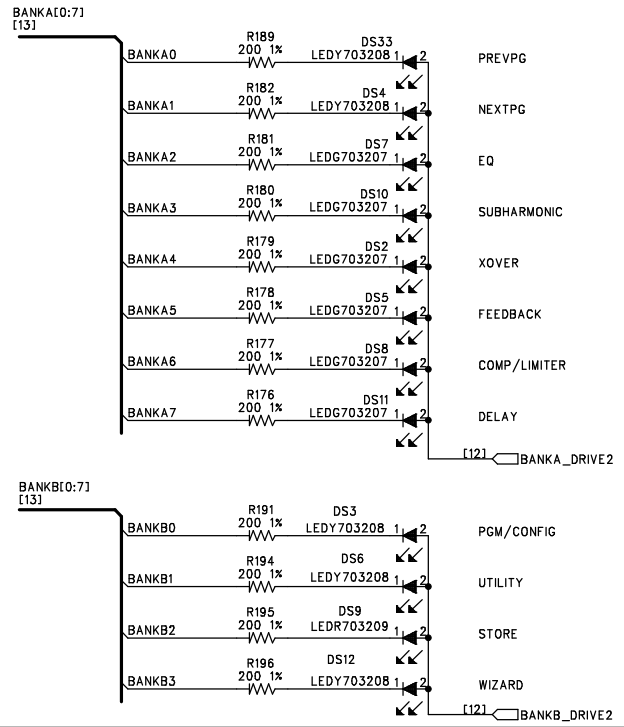
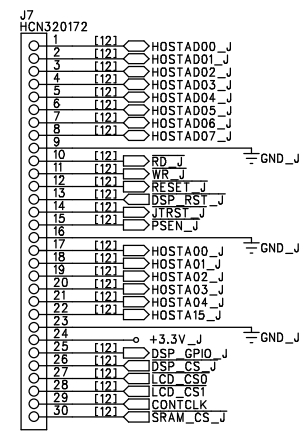
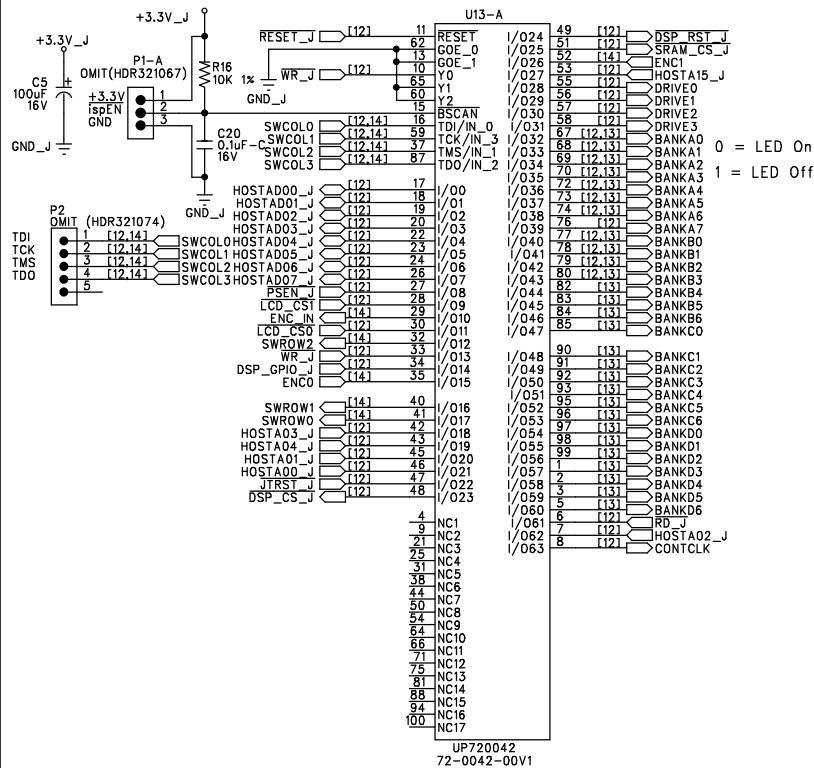
Analog Ground Test Points



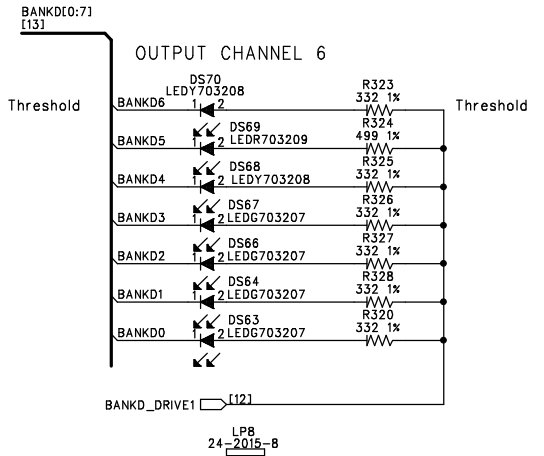
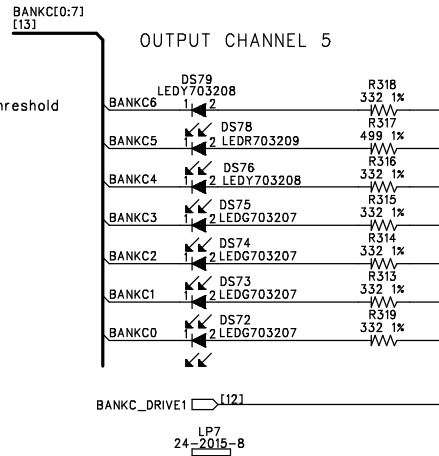
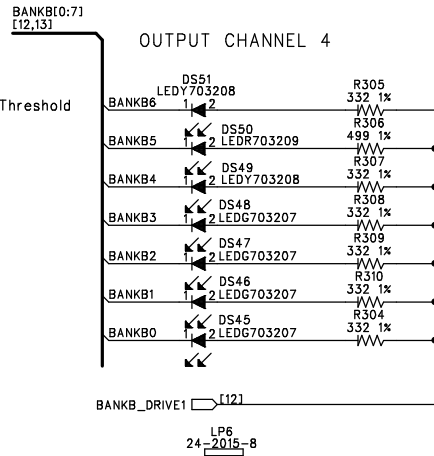
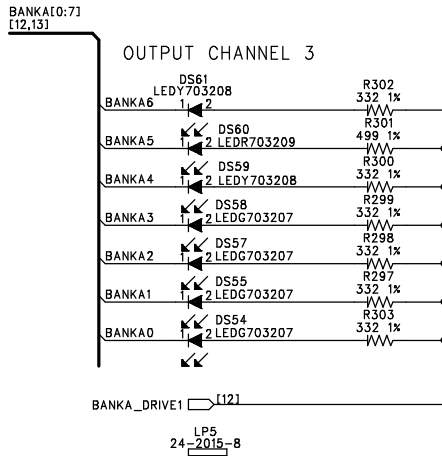
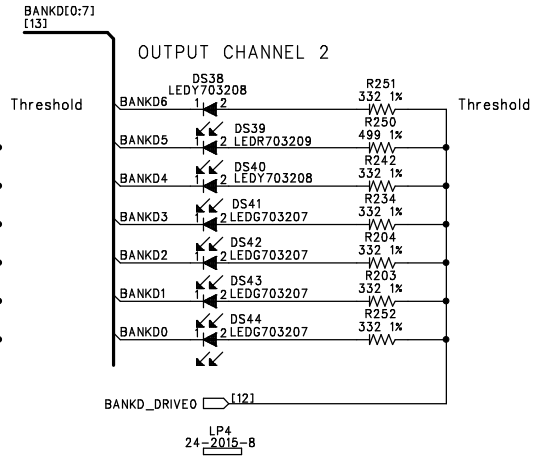
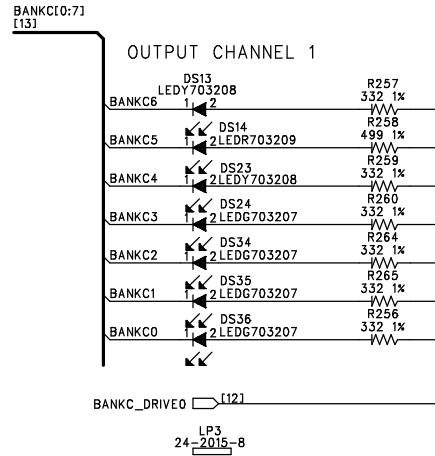
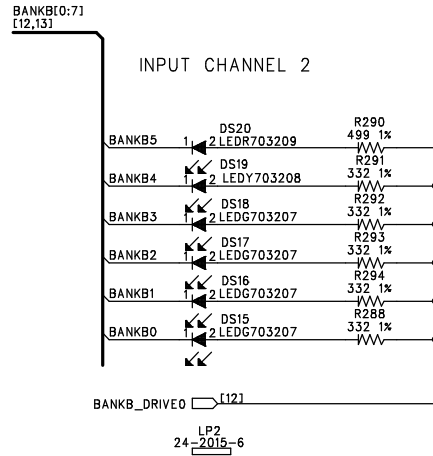
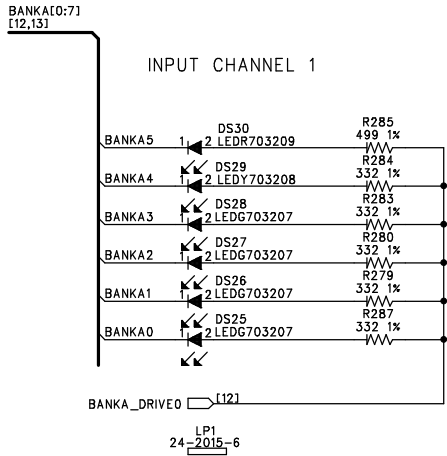
SIZE: A	SHEET TITLE: DIGITAL POWER GATES	REVISION: G0
DATE: 1-21-05	DRAWING NO: 05-1790	SHEET: 10 OF 15



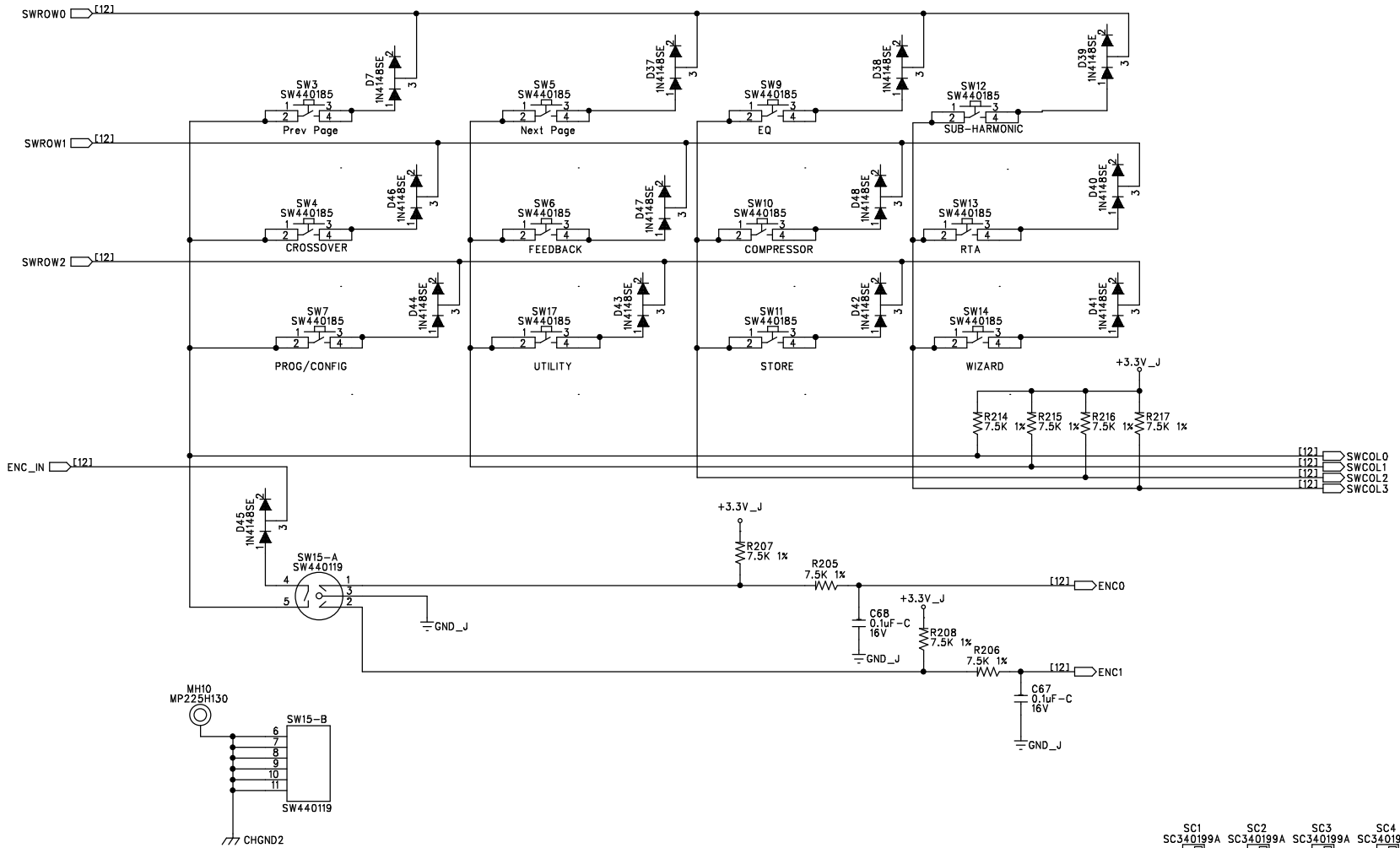
SIZE: A	SHEET TITLE: ANALOG POWER GATES	REVISION: G0
START DATE: 1-21-05	DRAWING NO: 05-1790	SHEET: 11 OF 15



SIZE: A	SHEET TITLE: FRONT PANEL - LED/LCD CONTROL	REVISION: G0
DATE: 1-21-05	DRAWING NO: 05-1790	SHEET: 12 OF 15

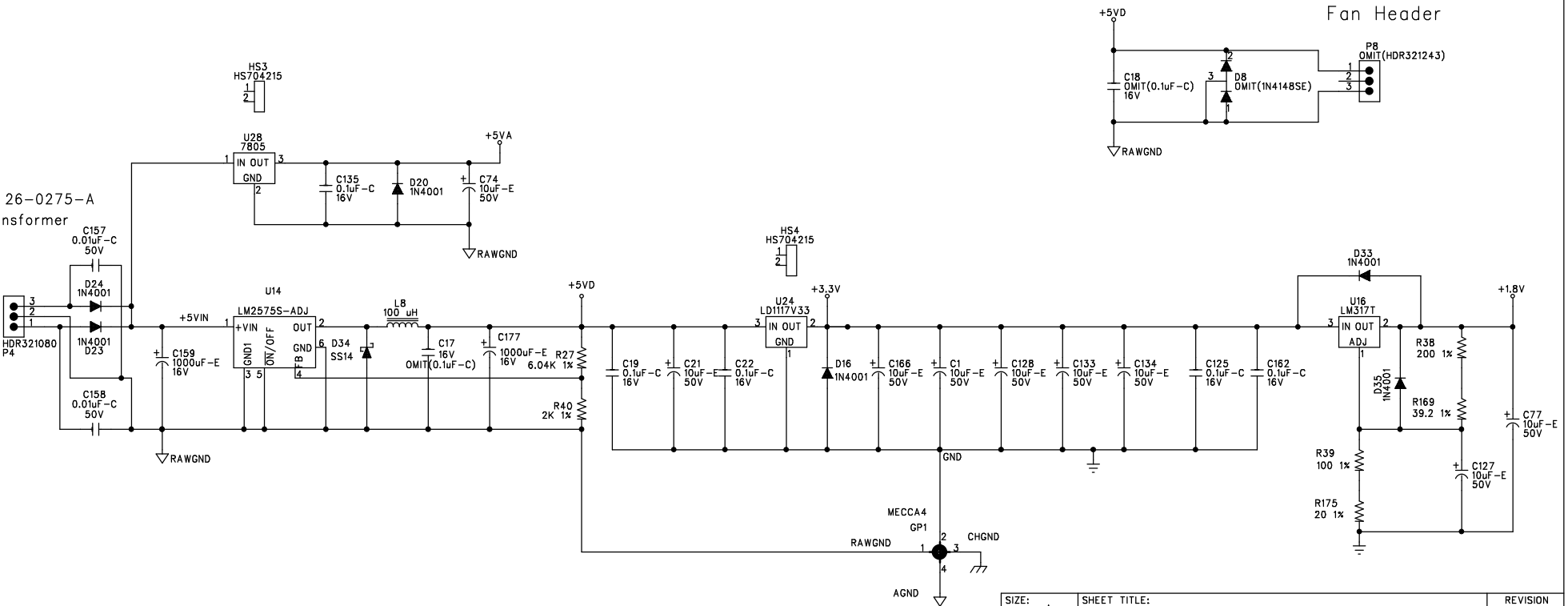
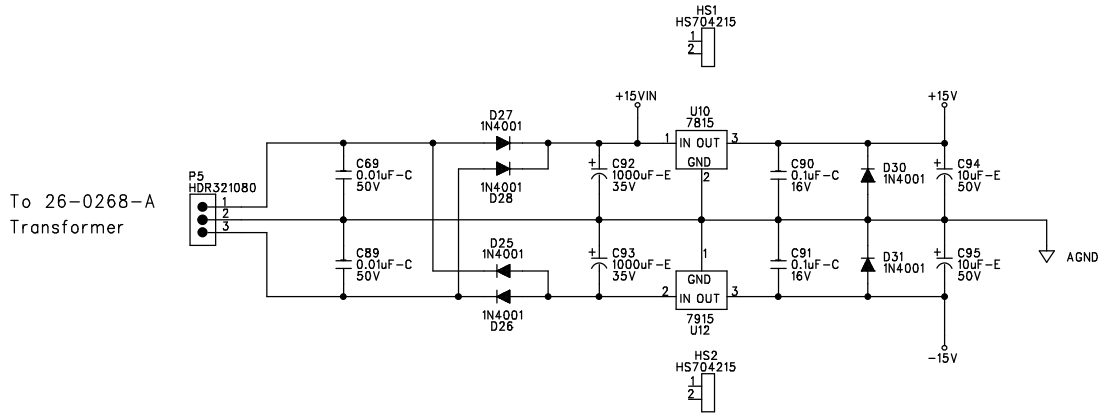


SIZE: A	SHEET TITLE: FRONT PANEL - METER LEDS	REVISION: G0
START DATE: 1-21-05	DRAWING NO: 05-1790	SHEET: 13 OF 15



- SC1 SC340199A
- SC2 SC340199A
- SC3 SC340199A
- SC4 SC340199A
- SC5 SC340199A
- SC6 SC340199A
- SC7 SC340199A
- SC8 SC340199A
- SC9 SC340199A
- SC10 SC340199A
- SC11 SC340199A
- SC12 SC340199A

SIZE:	FRONT PANEL - SWITCHES		REV: GO
DATE:	1-21-05	05-1790	SHEET: 14 OF 15



SIZE: A	SHEET TITLE: POWER SUPPLY	REVISION: G0
DATE: 1-21-05	DRAWING NO: 05-1790	SHEET: 15 OF 15

Bill Of Materials for 051790G0.sch on Fri Jan 21 12:11:01 2005

Qty	Reference	HMG#	Description	Audit	Schematic Part	PCB Decal
1	P6	NON-PART	PAD ARRAY EDGE CONN 20 COND 0.1"LS	DWB122	20PIN-FINGERS	20PIN-FINGERS
1	PCB1	80-1790	PCB 80-1790 dbx DRIVERACK PA	PT2142	80XXXXYY	BARCODE
14	A7-18 A20 A22	NON-PART	NON-PART, PCB ONLY, BREAKOFF PART	PT1481	BRKOFF	BRKOFF
12	C6-7 C28 C30 C35-36 C41-42 C47-48 C189-190	56-0000	CAP 0.001uF FILM PTR 100V 5% AF TA	PT1629	C0.001UF100JR	RFCC200
1	C83	56-0005	CAP 0.0068uF FILM PTR 100V 5% RF TA	PT1307	C0.0068UF100JR	RFDC200
4	C69 C89 C157-158	62-1311	CAP 0.01uF CER 50V 20% Y5V 0603 TA	PT2665	C0.01UC50M0603	0603
2	C52 C97	56-0033	CAP 0.027uF FILM PTR 100V 5% RF TA	PT1282	C0.027UF100JR	RFEF200
91	C3-4 C19-20 C22 C27 C34 C40 C57-68 C71-72 C75-76 C78 C90-91 C105-108 C110 C113-114 C116-119 C122 C125-126 C129-132 C135 C160-164 C168-169 C171-176 C181-188 C192 C196-210 C212-214 C216 C240 C242-244	62-1310	CAP 0.1uF CER 16V 20% Y5V 0603 TA	PT2696	C0.1UC16M0603	0603
3	C17-18 C191	OMIT	OMIT CAP 0.1uF CER 16V 20% Y5V 0603 TA (62-1310)	PT2711	C0.1UC16M0603O	0603
2	C87-88	56-0012	CAP 0.1uF FILM MTPPT 50V 5% RF TA	PT1200	C0.1UF50JR	RFEC200
2	C215 C217	62-3209	CAP 0.22uF CER 50V 10% X7R 1206 TA	PT2271	C0.22UC50K1206	1206
4	C226-229	62-1308	CAP 1000pF CER 50V 20% Y5V 0603 TA	PT2651	C1000PC50M0603	0603
2	C159 C177	60-0064	CAP 1000uF EL 16V 20% GP 10x17R 5LL TA	PT1334	C1000UE16MR	REM200P
2	C92-93	60-1073	CAP 1000uF EL 35V 20% HT 13x25R 5LL BK	PT1971	C1000UE35MR1	REQ200P
4	C5 C79-81	60-0201	CAP 100uF EL 16V 20% GP 6x8R 5LS TA	PT1378	C100UE16MR	REG200P
19	C1 C21 C74 C77 C94-95 C127-128 C133-134 C166 C170 C193-195 C211 C218-219 C241	60-1074	CAP 10uF EL 50V 20% HT 5x11R 5LS TA	PT1972	C10UE50MR1	REE200P
20	C2 C11-12 C23-26 C56 C73 C82 C84 C96 C98-100 C111-112 C136-138	62-1304	CAP 120pF CER 50V 5% NPO 0603 TA	PT2655	C120PC50J0603	0603
8	C123-124 C155-156 C222-225	62-1300	CAP 15pF CER 50V 5% NPO 0603 TA	PT2659	C15PC50J0603	0603
1	C70	60-0010	CAP 22uF EL 35V 20% GP 5x11R 5LS TA	PT2110	C22UE35MR	REE200P
10	C14 C33 C39 C45 C51 C147 C149 C152 C154 C165	60-0402	CAP 22uF ELNPP 25V 20% GP 6x11R 5LS TA	PT1084	C22UN25MR	REG200
8	C53 C109 C143 C145 C148 C150-151 C153	62-1306	CAP 330pF CER 50V 10% X7R 0603 TA	PT2653	C330PC50K0603	0603
8	C9-10 C15-16 C29 C85-86 C115	62-1307	CAP 470pF CER 50V 10% X7R 0603 TA	PT2652	C470PC50K0603	0603
1	C140	62-1302	CAP 47pF CER 50V 5% NPO 0603 TA	PT2657	C47PC50J0603	0603
4	C54-55 C101-102	60-0054-01	CAP 47uF EL 25V 20% GP 5x11R 5LS TA	PT2959	C47UE25MR1	REE200P
12	C8 C13 C31-32 C37-38 C43-44 C49-50 C121 C146	62-1303	CAP 68pF CER 50V 5% NPO 0603 TA	PT2656	C68PC50J0603	0603
12	D16 D20 D23-28 D30-31 D33 D35	70-0000	DIO 1N4001 50V 1 AMP AMMO TA	PT1003	D1N4001-R	RDB200
25	D1-7 D9 D13-15 D21-22 D37-48	70-0113	DIO MMBD4148SE DUAL 75V 600mA SOT-23 TA	PT1326	D1N4148SE-S	SOT-23
1	D8	OMIT	OMIT DIO MMBD4148SE DUAL 75V 600mA SOT-23 TA (70-0113)	PT1327	D1N4148SE-S-O	SOT-23
1	D34	70-0147	DIO SCHOTTKY 1A SS14 DO-214AC/SMA	PT1877	DSS14S	DO-214AC/SMA
8	A4-5 A19 A21 A23-26	NON-PART	NON-PART FIDUCIAL TARGET FOR AUTO INSERTION	PT2904	FIDUCIAL-AI	FIDUCIAL-AI

6	A1-3 A6 A27-28	NON-PART	NON-PART FIDUCIAL TARGET FOR AI AND XRAY	PT2796	FIDUCIAL-XRAY	FIDUCIAL-XRAY
2	J7 J9	32-0172	HCN CONN 30 PIN .5 MM CNTS 1X30 FML RA	PT2724	HCN320172	HC320172
1	J12	32-0176	HCN CONN 20 PIN FEM VRT MNT SMT	PT2773	HCN320176	HC102V079050FS
1	P3	32-1055	HDR 20 PIN 0.1" SPC 2 X 10 VERT MALE	PT1340	HDR321055	HC102
1	P1-A	OMIT	OMIT HDR 3 PIN 0.1" SPC 1 X 3 VERT MALE CUT FROM 14 PIN (32-1067)	PT2703	HDR321067-0	HC31
1	P2	OMIT	OMIT HDR 5 PIN 0.1" SPC 1 X 5 VERT MALE	PT2788	HDR321074-0	HC51M
2	P4-5	32-1080	HDR 3 PIN 0.1" SPC 1 X 3 LCK VERT MALE	PT1073	HDR321080	HC3L
1	P21	OMIT	OMIT HDR 14 PIN 0.1" SPC 2 X 7 VERT MALE (32-1083)	PT2127	HDR321083-0	HC72
1	H1	OMIT	OMIT, HDR, 5 PN, 0.079" SP, 1 X 5, 0.020" PS LK SD PO VT MA (32-1101)	PT1825	HDR321101-0	HC579LSPM
1	P8	OMIT	OMIT HDR 3 PIN .098 SPC 3X1 SHROUDED VERTICAL MT. (32-1243)	PT2795	HDR321243-0	HC31V98SP
4	HS1-4	70-4215	HEATSINK TO-220 VERT	PT1339	HS704215	HS704215
3	J3 J8 J10	32-0206	CON JACK XLR R/A PCA A SERIES	PT1219	J320206	XLRF-1
1	LBL1	30-0121	LABEL BARCODE AUTOINSERTABLE RAW	PT2790	LABEL300121	LABEL300121
39	DS1-2 DS5 DS7-8	70-3207	LED GREEN D1206 T&R	PT1902	LEDG703207	D1206
	DS10-11 DS15-18					
	DS24-28 DS34-36					
	DS41-48 DS54-55					
	DS57-58 DS63-64					
	DS66-67 DS72-75					
10	DS9 DS14 DS20	70-3209	LED RED D1206 T&R	PT1901	LEDR703209	D1206
	DS30-31 DS39 DS50					
	DS60 DS69 DS78					
19	DS3-4 DS6 DS12-13	70-3208	LED YEL 1206 TA	PT1900	LEDY703208	D1206
	DS19 DS23 DS29 DS33					
	DS38 DS40 DS49 DS51					
	DS59 DS61 DS68 DS70					
	DS76 DS79					
9	L1 L3-4 L6 L11-12	26-0000	IND FBD 600 OHM @ 100Hz 200mA 0603 TA	PT2728	LFB260000	0603
	L16-18					
12	L2 L9-10 L13-14	26-0001	IND FBD 2.5K OHM @ 100Hz, 50mA 0603 TA	PT2729	LFB260001	0603
	L19-25					
1	R150	26-0217	IND FBD 2.5K OHM @ 70MHz 0805 TA	PT1261	LFB260217	0805
1	L8	26-0002	IND PWR 100uH 3A	PT2754	LI260002	UP3B
2	LP1-2	NON-PART	NON-PART 6 POS NOT INSTALLED UNTIL MECHANICAL ASSY(LIGHT PIPE)	PT1967	LP242015-6	LP242015-6
6	LP3-8	NON-PART	NON-PART 8 POS NOT INSTALLED UNTIL MECHANICAL ASSY(LIGHT PIPE)	PT1968	LP242015-8	LP242015-8
1	GP1	NON-PART	NON-PART MECCA GND/PWR TIE POINT 4 POS	PT2482	MECCA4	MECCA4
6	MH3-6 MH8 MH12	NON-PART	NON-PART, MOUNTING HOLE, 0.130" NON-PLATED, #4	PT1242	MH130	MH130
2	MH2 MH7	NON-PART	NON-PART, MOUNTING HOLE, 0.156" NON-PLATED,#6	PT1044	MH156	MH156
1	MH9	NON-PART	NON-PART	DB105	MH156-NOKEEPOUT	MH156-NOKEEPOUT
2	MH1-2	NON-PART	NON-PART TOOLING PIN HOLE 156MIL HOLE	PT2794	MH156-TOOL	MH156-TOOL
1	MH10	NON-PART	NON-PART MECHANICAL PLATED HOLE 225 PAD 130 HOLE #4	PT1998	MP225H130	MP225H130
4	MP1 MP3-5	NON-PART	NON-PART, MECHANICAL PLATED HOLE, 300 PAD, 156 HOLE, #6	PT1045	MP300H156	MP300H156
6	J1-2 J4-6 J11	32-0204	CON PLUG XLR R/A PCA A SERIES	PT1218	P320204	XLRM-1
10	Q2-3 Q8-15	70-1058	XSTR 2N3904 NPN SOT-23 TA	PT1203	Q2N3904-S	SOT-23
1	Q1	70-1035	XSTR 2N44402 PNP SIGNAL TO-92 TA	PT1527	Q2N4402	TO92(EBC)-V
21	L7 L11 L13 L15	50-1300	RES 0 5% 1/16W SM 0603 TA	PT2508	R0-B5-0603	0603
	L26-30 L35 L37 L91					
	L200 L222 L277 L289					
	L335 L338-339					
	L341-342					
6	R8 R10 R12 R58-59	OMIT	OMIT RES 0 5% 1/16W SM 0603 TA (50-1300)	PT2509	R0-B5-0603O	0603
	R295					
7	R157-158 R167-168	50-0317	RES 0 5% 1/4W CF RR TA	PT1008	R0-E5-R	RRA200
	R170-172					
1	R160	OMIT	OMIT RES 0 5% 1/4W CF RR TA (50-0317)	PT1596	R0-E5-RO	RRA200
2	R163-164	52-1340	RES 10.7K 1% 1/16W SM 0603 TA	PT2592	R10.7KB1-0603	0603
5	R39 R54 R183-184	52-1304	RES 100 1% 1/16W SM 0603 TA	PT2512	R100-B1-0603	0603
	R312					
4	R103-104 R253-254	52-1360	RES 100K 1% 1/16W SM 0603 TA	PT2613	R100KB1-0603	0603
43	R1-4 R6 R14 R16 R20	52-1338	RES 10K 1% 1/16W SM 0603 TA	PT2584	R10KB1-0603	0603
	R23 R28-29 R36 R49					
	R56 R112 R118 R124					

	R130 R136 R143 R159							
	R185-188 R192-193							
	R197 R199 R201 R209							
	R212-213 R218-219							
	R223 R236 R244 R266							
	R334 R340 R383-384							
12	R34 R57 R64-65	52-1342	RES 13.3K 1%	1/16W SM 0603 TA		PT2594 R13.3KB1-0603	0603	
	R72-73 R80-81							
	R88-89 R281-282							
1	R267	52-1362	RES 150K 1%	1/16W SM 0603 TA		PT2615 R150KB1-0603	0603	
1	R153	52-1344	RES 15K 1%	1/16W SM 0603 TA		PT2596 R15KB1-0603	0603	
4	R92 R149 R233 R235	52-1305	RES 169 1%	1/16W SM 0603 TA		PT2513 R169-B1-0603	0603	
11	R156 R173-174	52-1313	RES 1K 1%	1/16W SM 0603 TA		PT2550 R1KB1-0603	0603	
	R210-211 R269-274							
1	R336	52-1372	RES 1M 1%	1/16W SM 0603 TA		PT2625 R1MB1-0603	0603	
4	R74 R90 R226 R232	52-1317	RES 2.21K 1%	1/16W SM 0603 TA		PT2555 R2.21KB1-0603	0603	
10	R24 R66 R83 R109	52-1319	RES 2.67K 1%	1/16W SM 0603 TA		PT2557 R2.67KB1-0603	0603	
	R121 R133 R146 R190							
	R231 R247							
16	R38 R43 R176-182	52-1306	RES 200 1%	1/16W SM 0603 TA		PT2514 R200-B1-0603	0603	
	R189 R191 R194-196							
	R332-333							
2	R175 R337	52-1300	RES 20 1%	1/16W SM 0603 TA		PT2507 R20-B1-0603	0603	
8	R46-48 R94-96 R224	52-1346	RES 20K 1%	1/16W SM 0603 TA		PT2598 R20KB1-0603	0603	
	R228							
1	R255	52-1364	RES 221K 1%	1/16W SM 0603 TA		PT2617 R221KB1-0603	0603	
13	R40 R75 R82 R98-100	52-1316	RES 2K 1%	1/16W SM 0603 TA		PT2553 R2KB1-0603	0603	
	R154-155 R221							
	R229-230 R241 R262							
12	R5 R26 R50 R110	52-1322	RES 3.16K 1%	1/16W SM 0603 TA		PT2560 R3.16KB1-0603	0603	
	R113 R122 R125 R134							
	R137 R147 R237 R248							
6	R41 R111 R123 R135	52-1323	RES 3.24K 1%	1/16W SM 0603 TA		PT2561 R3.24KB1-0603	0603	
	R148 R249							
26	R25 R31-33 R60-63	52-1324	RES 3.32K 1%	1/16W SM 0603 TA		PT2562 R3.32KB1-0603	0603	
	R68-71 R76-79							
	R84-87 R105 R165							
	R321-322 R357-358							
50	R9 R67 R161-162	52-1307	RES 332 1%	1/16W SM 0603 TA		PT2543 R332-B1-0603	0603	
	R203-204 R234 R242							
	R251-252 R256-257							
	R259-260 R264-265							
	R279-280 R283-284							
	R287-288 R291-294							
	R297-300 R302-305							
	R307-310 R313-316							
	R318-320 R323							
	R325-328							
6	R101-102 R152 R261	50-1325	RES 33K 5%	1/16W SM 0603 TA		PT2589 R33KB5-0603	0603	
	R263 R275							
1	R169	52-1301	RES 39.2 1%	1/16W SM 0603 TA		PT2515 R39.2-B1-0603	0603	
1	R382	52-1355	RES 39.2K 1%	1/16W SM 0603 TA		PT2608 R39.2KB1-0603	0603	
13	R21-22 R107-108	52-1327	RES 4.53K 1%	1/16W SM 0603 TA		PT2565 R4.53KB1-0603	0603	
	R119-120 R131-132							
	R144-145 R245-246							
	R364							
1	R30	52-1368	RES 475K 1%	1/16W SM 0603 TA		PT2621 R475KB1-0603	0603	
2	R330-331	52-1356	RES 49.9K 1%	1/16W SM 0603 TA		PT2609 R49.9KB1-0603	0603	
17	R151 R198 R202 R250	52-1308	RES 499 1%	1/16W SM 0603 TA		PT2545 R499-B1-0603	0603	
	R258 R278 R285-286							
	R290 R296 R301 R306							
	R311 R317 R324 R329							
	R365							

051790G0.pps							
6	R19 R55 R117 R129 R142 R243	52-1331	RES 5.76K 1% 1/16W SM 0603 TA	PT2576	R5.76KB1-0603	0603	
4	R97 R141 R225 R227	52-1357	RES 57.6K 1% 1/16W SM 0603 TA	PT2610	R57.6KB1-0603	0603	
11	R15 R27 R42 R44-45 R51 R93 R114 R126 R138 R238	52-1332	RES 6.04K 1% 1/16W SM 0603 TA	PT2577	R6.04KB1-0603	0603	
12	R17-18 R52-53 R115-116 R127-128 R139-140 R239-240	52-1303	RES 60.4 1% 1/16W SM 0603 TA	PT2511	R60.4-B1-0603	0603	
1	R268	52-1358	RES 63.4K 1% 1/16W SM 0603 TA	PT2611	R63.4KB1-0603	0603	
1	R220	52-1311	RES 681 1% 1/16W SM 0603 TA	PT2548	R681-B1-0603	0603	
9	R205-208 R214-217 R276	52-1335	RES 7.5K 1% 1/16W SM 0603 TA	PT2581	R7.5KB1-0603	0603	
2	R106 R166	52-1336	RES 8.06K 1% 1/16W SM 0603 TA	PT2582	R8.06KB1-0603	0603	
2	SC14-15	34-0125	SWITCH CAP BLACK ROUND	PT1354	SC340125	SC340125-FPE	
1	SC13	34-0198-C	SWITCH CAP LIGHT PIPE SNGL LED HORZ	PT2504	SC340198C	SC340198C	
12	SC1-12	34-0199-A	SWITCH CAP dbx LIGHTED	PT2024	SC340199A	PCBNULL	
1	SW2	44-0050	SWITCH DPDT MINI IN-OUT 6 PIN E-SWITCH	PT1256	SW440050	SW440050	
2	SW1 SW16	44-0051	SWITCH 4PDT MINI IN-OUT 12 PIN E-SWITCH	PT1257	SW440051	SW440051	
1	SW15	44-0119	SWITCH ENCODER 20mm D-SHAFT 30 POS W/SW VERT MNT	PT1890	SW440119	SW440119	
12	SW3-7 SW9-14 SW17	44-0185	SWITCH SPST LITE TOUCH MINI W/ PROJECTED PLUNGER SMT	PT1962	SW440185	SW44PTACT-3	
7	TP1-2 TP4 TP8-10 TP12	NON-PART	NON-PART, TEST POINT, ENGINEERING PROBE POINT	PT1653	TESTPOINT	TESTPOINTSM	
1	U7	72-0046	IC 25AA640 64K SERIAL EEPROM TA	PT2774	U25AA260	SO8	
1	U5	72-6318	IC 32K x 8 SRAM 15ns SOJ28	PT2294	U32K8S15-J	SOJ28-300	
6	U2 U33 U36 U38 U42 U51	72-1439	IC, 5532MD, DUAL BIPOLAR OPAMP, SO8-200	PT1306	U5532MD-S	SO8-200	
2	U25 U48	72-5426	IC, 74AC04, HEX INVERTER, SO14, T&R	PT1325	U74AC04-S	SO14	
1	U21	72-5437	IC 74VHC273 FLIP-FLOP OCTAL-D SO20W T&R	PT1909	U74VHC273-S	SO20W	
1	U17	72-0045	IC 74VHC373 OCTAL LATCH SO20W	PT2771	U74VHC373-S	SO20W	
1	U44	72-0044	IC 74VHC4040 12 BIT RIPPLE COUNTER SO16	PT2759	U74VHC4040-S	SO16	
1	U28	70-4014	V-REG, 7805, +5V, 1.5 AMP, TO-220	PT1591	U7805	TO220(IGO)-V	
1	U10	70-4123	V-REG, 7815, +15V, 1 AMP, TO-220	PT1592	U7815	TO220(IGO)-V	
1	U20	72-6316	IC 78L32P-24 8 BIT MICROCONTROLLER 3.3V	PT2316	U78L32P-24	PLCC-44	
1	U12	70-4124	V-REG, 7915, -15V, 1 AMP, TO-220	PT1594	U7915	TO220(GIO)-V	
1	U11	72-1485	IC AK4356 192kHz 24 BIT 6 CHANNEL DAC	PT2717	UAK4356-Q	QFP44-10X10	
1	U26	72-1266	IC, AK5383, 96 kHz, DUAL 24BIT ADC, SO28W	PT1557	UAK5383-S	SO28W	
1	U1	72-6305	IC DSP56367 DSP 150MHZ QFP144-20X20	PT2452	UDSP56367-Q	QFP144-20X20	
1	U24	70-4021	V-REG, LD1117V33, +3.3V, 0.8 AMP, TO-220, BULK	PT1795	ULD1117V33	TO220(GOI)-V	
1	U14	70-0063	V-REG LM2575S-ADJ SWITCHING REG 1A TO-263(5)	PT2739	ULM2575S-ADJ	TO-263(5)	
1	U16	70-4007	V-REG, LM317T, ADJ REG, 1.5 AMP, TO-220	PT1785	ULM317T	TO220(AOI)-V	
2	U4 U18	72-5434	IC NC7SZ125 TINYLOGIC BUFFER SOT23-5 TA	PT1881	UNC7SZ125-S	SOT23-5	
1	U3	72-6308	IC NCP304 VOLTAGE DETECTOR SC-82AB	PT2393	UNCP304	SC-82AB	
11	U8-9 U15 U19 U22-23 U27 U60-62 U70	72-1480	IC NJM4580 DUAL OP-AMP SO8	PT1374	UNJM4580-S	SO8	
1	U13	72-0042-00V1	IC CPLD ispLSI2064VE dbx Driverack PA V1	PT2785	UP720042	QFP100-14X14	
1	U6	72-5539-03V1	IC AM29LV040B 512K x 8 FLASH MEMORY dbx Driverack PA V1	PT2292	UP725539	PLCC/R-32	
1	Y3	76-0202	XTAL 24.000MHz MTL CAN SM TA	PT1928	Y24.000M760202	XTAL2-V	
1	X7	76-0006	XTAL 24.576MHz CX16F/CS49G SM TA	PT2919	Y24.576M760006	XTAL2-V	

Date: 4/5/02	Project #: 512	Project Engineer: Robert Boatright	ECN # 2028
Product: dbx PA	Assy. Name: dbxPA Main PCB Assy	Reason For Change: Component value substitutions and removal of R&D headers from schematic/BOM.	
Assy. Number: 05-1790	Revision: A0	To: A1	

Instructions:

Change value of R28, R29, R36, and R266 from 10KOhms 1% to 1KOhms 1%.

Remove 44 pin PLCC socket. Microprocessor will not be socketed in production.

Change all 10uF Electrolytic capacitors to 105°C, 50V.

Change CPLD JTAG header (P2) to an "omit" part.

Change DSP JTAG header (P21) to an "omit" part.

Change Power Supply Test Header (P7) to an "omit" part.

**** Delete ****		Quantity	
Item Description	Item #	From	To
SOCKET 44 PIN PLCC SM TA	70-3168	1	0
RES 10K 1% 1/16W SM 0603 TA	52-1338	42	38
10uF 50V 85°C	60-0090	2	0
1000uF 50V 85°C	60-0096	2	0
22uF 35V 85°C	60-0010	3	1
10uF 16V 85°C	60-0049-01	7	0
10uF 25V 85°C	60-0050-01	7	0
Header 5 Pin Vert .1"	32-1074	1	0
Header 9 Pin Vert .1"	32-1182	1	0
Header 14 Pin Vert .1"	32-1083	1	0

**** Add ****		Quantity	
Item Description	Item #	From	To
RES 1K 1% 1/16W SM 0603 TA	52-1313	11	15
01uF 50V 105°C	60-1074	0	18
1000uF 35V 105°C	60-1073	0	2

Reason for Change	Reason:	Effectivity / Priority	Priority:	Signatures	Date
Continuous Improvement	<input type="checkbox"/> CI	After Depletion of Current	<input type="checkbox"/> ADC	Engineering Manager	4/8/02
Cost Reduction	<input type="checkbox"/> CR	Next Job Release	<input checked="" type="checkbox"/> NJR	Materials	
Component Substitution	<input checked="" type="checkbox"/> CS	(2 nd or 4 th Friday of Month)		Set Effectivity Below	4-8-02
Marketing Change	<input type="checkbox"/> MC	Rework Parts		Manufacturing Engineering	4/9/02
Manufacturing Release	<input type="checkbox"/> MR	On Order	<input type="checkbox"/> ROO	Project Engineer	4/8/02
Omission or Error	<input type="checkbox"/> OE	In Stock	<input type="checkbox"/> RIS		
Product Enhancement	<input type="checkbox"/> PE	In Process	<input type="checkbox"/> RIP	All Documents approved	4/8/02
Regulatory Requirement	<input type="checkbox"/> RR	In Finished Goods	<input type="checkbox"/> RIF	Effectivity	
Software Update	<input type="checkbox"/> SU	Other: Explain	<input type="checkbox"/> OTH		4/9/02
Specification Change	<input type="checkbox"/> SC				
Other:	<input type="checkbox"/> OTH				
See Attached Impact Sheet	Cost Δ \$			ECN Distribution	4/9/02

Date: 4/5/02	Project #: 512	Project Engineer: Robert Boatright	ECN # 2036
Product: dbx PA		Reason For Change: Component value substitutions.	
Assy. Name: dbxPA Main PCB			
	Assy		
Assy. Number: 05-1790			
Revision: A1	To: A2		

Instructions:
 Change value of C131 from .1uF(62-1312) to 2.2uF (62-0000).
 Change value of C126 from .1uF(62-1312) to 2.2uF (62-0000).
 Install 100uF cap (60-0055) on front panel PCB at location P1. Install positive lead of cap to P1 pin 1; install negative lead of cap to P1 pin 3. After wave solder, capacitor will need to be "bent over".
 Add 20 Ohm resistor (52-1300) at location R337 (previously an "omit" location) to brighten LCD backlight.

**** Delete ****		Quantity	
Item Description	Item #	From	To
CAP .1uF CER 16V 20% Y5V 0603	62-1310	95	93

**** Add ****		Quantity	
Item Description	Item #	From	To
CAP 2.2uF CER 6.3V	62-0000	0	2
CAP 100uF EL 25V 20% GP 6x11R 5LS TA	60-0055	3	4
Resistor 20 1% 1/16W SM 0603 TA	52-1300	0	1

Reason for Change	Reason:	Effectivity / Priority	Priority:	Signatures	Date
Continuous Improvement	<input type="checkbox"/> CI	After Depletion of Current	<input type="checkbox"/> ADC	Engineering Manager	4/15/02
Cost Reduction	<input type="checkbox"/> CR	Next Job Release	<input checked="" type="checkbox"/> NJR	Materials	4/15/02
Component Substitution	<input checked="" type="checkbox"/> CS	(2 nd or 4 th Friday of Month)		Manufacturing Engineering	4/15/02
Marketing Change	<input type="checkbox"/> MC	Rework Parts	<input type="checkbox"/> ROO	Project Engineer	4/16/02
Manufacturing Release	<input type="checkbox"/> MR	On Order	<input type="checkbox"/> RIS	All Documents approved	4/15/02
Omission or Error	<input type="checkbox"/> OE	In Stock	<input type="checkbox"/> RIP	Effectivity	4/15/02
Product Enhancement	<input type="checkbox"/> PE	In Process	<input type="checkbox"/> RIF	ECN Distribution	4/23/02
Regulatory Requirement	<input type="checkbox"/> RR	In Finished Goods	<input type="checkbox"/> OTH		
Software Update	<input type="checkbox"/> SU	Other: Explain			
Specification Change	<input type="checkbox"/> SC				
Other:	<input type="checkbox"/> OTH				
See Attached Impact Sheet	CostΔ \$				

ECN_H April 21, 1998

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BK

Date: 4/5/02	Project #: 512	Project Engineer: Robert Boatright	ECN # 2047
Product:	dbx PA	Reason For Change: ECN number #2036 called for the wrong capacitor (60-0055) to be installed. It was too tall and 60-0201 should be used instead. Rather than have (3) 100uF capacitors of one type and (1) of the other, all (4) 100uF caps will be changed to 60-0201.	
Assy. Name:	dbxPA Main PCB Assy		
Assy. Number:	05-1790		
Revision: A2	To: A3		

Instructions:
 Install 100uF cap (60-0201) on front panel PCB at location P1. Install positive lead of cap to P1 pin 1; install negative lead of cap to P1 pin 3.

In schematic, change capacitors C79-C81 and P1 to 60-0201.

**** Delete ****		Quantity	
Item Description	Item #	From	To
CAP 100uF EL 25V 20% GP 6x11R 5LS TA	60-0055	4	0

**** Add ****		Quantity	
Item Description	Item #	From	To
CAP 100uF EL 10V 20% GP	60-0201	0	4

Reason for Change	Reason:	Effectivity / Priority	Priority:	Signatures	Date
Continuous Improvement	<input type="checkbox"/> CI	After Depletion of Current	<input type="checkbox"/> ADC	Engineering Manager	4/24/02
Cost Reduction	<input type="checkbox"/> CR	Next Job Release	<input checked="" type="checkbox"/> NJR	Materials	Set Effectivity Below
Component Substitution	<input checked="" type="checkbox"/> CS	(2 nd or 4 th Friday of Month)		David Meller	4/24/02
Marketing Change	<input type="checkbox"/> MC	Rework Parts		Manufacturing Engineering	4/24/02
Manufacturing Release	<input type="checkbox"/> MR	On Order	<input type="checkbox"/> ROO	Project Engineer	All Documents approved
Omission or Error	<input type="checkbox"/> OE	In Stock	<input type="checkbox"/> RIS	Robert Boatright	4/26/02
Product Enhancement	<input type="checkbox"/> PE	In Process	<input type="checkbox"/> RIP		
Regulatory Requirement	<input type="checkbox"/> RR	In Finished Goods	<input type="checkbox"/> RIF		
Software Update	<input type="checkbox"/> SU	Other: Explain	<input type="checkbox"/> OTH		
Specification Change	<input type="checkbox"/> SC				Effectivity 4/14/12
Other:	<input type="checkbox"/> OTH				ECN Distribution 4/30/02
See Attached Impact Sheet	Cost Δ \$				

ECN_H April 21, 1998

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BU

Date: 4/02/02	Project #: 512	Project Engineer: Robert Boatright	ECN # 2060
Product/Drive: DriveRack PA	Assy. Name: DriveRack PA	Reason For Change: Release dbx DriveRack PA PCB to Rev C.	
Assy. Number: 05-1790	Revision: A3	To: C0	

Instructions:

**** Delete ****		Quantity	
Item Description	Item #	From	To
Ferrite Bead 2.5K 70 MHz 0805 SM	26-0217	3	1
CAP 68pF CER 50V 5% NPO 0603 TA	62-1303	18	12
Res 100 1% 1/16W SM 0603	52-1304	8	5
Res 1K 1% 1/16W SM 0603	52-1313	15	11
Res 330 5% 1/16W SM 0603	50-1309	48	0
Res 4.7K 5% 1/16W SM 0603	50-1317	1	0
Res 470 5% 1/16W SM 0603	50-1310	11	0
Res 470K 5% 1/16W SM 0603	50-1335	1	0
Res 6.04K 1% 1/16W SM 0603	52-1332	22	11
IC NJM4580 Lw Noise Dual Op Amp	72-1480	14	11
Res 39K 5% 1/16W SM 0603	50-1326	1	0
Res 200 5% 1/16W SM 0603	50-1308	1	0
Res 62K 5% 1/16W SM 0603	50-1328	1	0
Res 680 5% 1/16W SM 0603	50-1311	1	0
CAP 0.1uF CER 16V 20% Y5V 0603	62-1310	93	90
CAP 2.2uF CER 6.3V +80/-20% Y5V	62-0000	2	0
Dio 1N4001 50V 1AMP Ammo	70-0000	13	12
LED Grn Diffsd T1 Ammo	70-2114	1	0
Reg 7805 +5V 1500mA TO-220	70-4014	2	1
CAP 3300uF EL 16V 20% HT 13x25R	60-1072	1	0

**** Add ****		Quantity	
Item Description	Item #	From	To
LED Grn 568nm 1206 SM	70-3207	38	39
Res 10K 1% 1/16W SM 0603	52-1338	38	43
Res 200 1% 1/16W SM 0603	52-1306	15	16
Res 2K 1% 1/16W SM 0603	52-1316	12	13
Res 332 1% 1/16W SM 0603	52-1307	2	50
Res 0 5% 1/16W SM 0603	50-1300	12	15
Res 499 1% 1/16W SM 0603	52-1308	6	17
CAP 10uF EL 50V 20% HT 5x11R	60-1074	18	19
Heatsink Clip-on TO-220 PCB Mnt	70-4215	3	4
CAP 1000uF EL 16V 20% GP 10x17R	60-0064	0	2
DIO SCHOTTKY 1A SS14 DO-214A	70-0147	0	1
LABEL BARCODE AUTOINSERTABL	30-0121	0	1
IND PWR 100uH 3A	26-0002	0	1
RES 39.2K 1% 1/16W SM 0603	52-1355	0	1
RES 475K 1% 1/16W SM 0603	52-1368	0	1
RES 63.4K 1% 1/16W SM 0603	52-1358	0	1
RES 681 1% 1/16W SM 0603	52-1311	0	1
V-REG LM2575S-ADJ SWITCHING R	70-0063	0	1
IC NC7SZ125 TINYLOGIC BUFFER	72-5434	0	2

Reason for Change	Reason:	Effectivity / Priority	Priority:	Signatures	Date
Continuous Improvement	<input type="checkbox"/> CI	After Depletion of Current	<input type="checkbox"/> ADC	Engineering Manager	
Cost Reduction	<input type="checkbox"/> CR	Next Job Release	<input checked="" type="checkbox"/> NJR	<i>John W. Hanson</i>	5-16-02
Component Substitution	<input type="checkbox"/> CS	(2 nd or 4 th Friday of Month)		Materials Set Effectivity Below	
Marketing Change	<input type="checkbox"/> MC	Rework Parts		<i>[Signature]</i>	5/14/02
Manufacturing Release	<input checked="" type="checkbox"/> MR	On Order	<input type="checkbox"/> ROO	Manufacturing Engineering	5/16/02
Omission or Error	<input type="checkbox"/> OE	In Stock	<input type="checkbox"/> RIS	<i>[Signature]</i>	
Product Enhancement	<input type="checkbox"/> PE	In Process	<input type="checkbox"/> RIP	Project Engineer All Documents approved	5/14/02
Regulatory Requirement	<input type="checkbox"/> RR	In Finished Goods	<input type="checkbox"/> RIF	<i>[Signature]</i>	
Software Update	<input type="checkbox"/> SU	Other: Explain	<input type="checkbox"/> OTH		
Specification Change	<input type="checkbox"/> SC			Effectivity	5/16/02
Other:	<input type="checkbox"/> OTH			ECN Distribution	5/22/02

ECN_H April 21, 1998

Dist: STD; Engineering Files, Materials, Manuf. Eng., Manufacturing, Stockroom, Sales/Customer Service, Technical Service, Product Development, Proj. Engineer

Date:	Project #: 512	Project Engineer: Robert Boatright	ECN # 2084
Product:	dbx PA	Reason For Change: Wrong caps specified.	
Assy. Name:	Main PCB Assy		
Assy. Number:	05-1790		
Revision: C0	To: C2		

Instructions:

Change C123 & C124 to 15pF capacitors (62-1300) in SAP BOM and on Sheet 8 of schematics. Change schematic revision to C2.

Replace these capacitors in all new builds, finished goods, and WIP.

Remove C169 on all new builds, finished goods, and WIP. Change to an OMIT part on schematics.

Item Description	Item #	Quantity	
		From	To
CAP 47pF CER 50V	62-1302	3	1
CAP 0.1uF CER 16V 0603	62-1310	90	89

Item Description	Item #	Quantity	
		From	To
CAP 15pF CER 50V 5% NPO 0603 TA	62-1300	6	8

Reason for Change	Reason:	Effectivity / Priority	Priority:	Signatures	Date
Continuous Improvement	<input type="checkbox"/> CI	After Depletion of Current	<input type="checkbox"/> ADC	Engineering Manager	6/12/02
Cost Reduction	<input type="checkbox"/> CR	Next Job Release	<input checked="" type="checkbox"/> NJR	Materials	Set Effectivity Below
Component Substitution	<input checked="" type="checkbox"/> CS	(2 nd or 4 th Friday of Month)		David Mellen	6-12-02
Marketing Change	<input type="checkbox"/> MC	Rework Parts	<input type="checkbox"/> ROO	Manufacturing/Engineering	6/12/02
Manufacturing Release	<input type="checkbox"/> MR	On Order	<input checked="" type="checkbox"/> RIS	Project Engineer	All Documents approved
Omission or Error	<input type="checkbox"/> OE	In Stock	<input checked="" type="checkbox"/> RIP		6-12-02
Product Enhancement	<input type="checkbox"/> PE	In Process	<input checked="" type="checkbox"/> RIF		
Regulatory Requirement	<input type="checkbox"/> RR	In Finished Goods	<input type="checkbox"/> OTH		
Software Update	<input type="checkbox"/> SU	Other: Explain			
Specification Change	<input type="checkbox"/> SC				Effectivity 6-12-02
Other:	<input type="checkbox"/> OTH				ECN Distribution 6/12/02
See Attached Impact Sheet	Cost Δ \$				

ECN_H April 21, 1998

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BK

Date: 6/12/02	Project #:	Project Engineer: Robert Boatright / Ray Larsen	ECN # 2005
Product: dbx PA		Reason For Change:	
Assy. Name: dbx PA PCB		Manufacturability	
Assy. Number: 05-1790			
Revision: C2	To: D0		

Instructions:
 Change the Front Panel V score to a rout with break-aways and move holes in oposit side break-aways .025.
 On the display adaptor breakaway by A15 add holes to the Display Adaptor side of the breakaway.
 Change C169 from omit to 62-1310
 Add C40 0.1uf 62-1310 to filter the -15V supply to U19 pin 4

**** Delete ****		Quantity	
Item Description	Item #	From	To

**** Add ****		Quantity	
Item Description	Item #	From	To
CAP 0.1uf CER 16V 20% Y5V	62-1310	89	91

Reason for Change	Reason:	Effectivity / Priority	Priority:	Signatures	Date
Continuous Improvement	<input checked="" type="checkbox"/> CI	After Depletion of Current	<input checked="" type="checkbox"/> ADC	Engineering Manager	6/12/02
Cost Reduction	<input type="checkbox"/> CR	Next Job Release	<input type="checkbox"/> NJR	Materials	7-11-02
Component Substitution	<input type="checkbox"/> CS	(2 nd or 4 th Friday of Month)		Set Effectivity Below	6/12/02
Marketing Change	<input type="checkbox"/> MC	Rework Parts		Manufacturing Engineering	6-25-02
Manufacturing Release	<input type="checkbox"/> MR	On Order	<input type="checkbox"/> ROO	Project Engineer	6-25-02
Omission or Error	<input type="checkbox"/> OE	In Stock	<input type="checkbox"/> RIS	All Documents approved	7-11-02
Product Enhancement	<input type="checkbox"/> PE	In Process	<input type="checkbox"/> RIP	Effectivity	6/25/02
Regulatory Requirement	<input type="checkbox"/> RR	In Finished Goods	<input type="checkbox"/> RIF	ECN Distribution	6/25/02
Software Update	<input type="checkbox"/> SU	Other: <small>Explain</small>	<input type="checkbox"/> OTH		
Specification Change	<input type="checkbox"/> SC				
Other:	<input type="checkbox"/> OTH				
See Attached Impact Sheet	CostΔ \$ 0				

ECN_H April 21, 1998

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BK

Date: 08/09/01	Project #: 512	Project Engineer: R. Boatright	ECN # 2158
Product: dbx DriveRack PA	Assy. Name: dbx DriveRack PA	Reason For Change: Remove the EPROM socket from the BOM.	
Assy. Number: 05-1790	Revision: 00	To: 01	

Instructions:

EPROM software is apparently stable. Remove the socket from the BOM and directly solder the EPROM to the PCB on all future builds.

**** Delete ****		Quantity	
Item Description	Item #	From	To
Socket, PLCC, 32-Pin	70-3026	1	0

**** Add ****		Quantity	
Item Description	Item #	From	To

Reason for Change	Reason:	Effectivity / Priority	Priority:	Signatures	Date
Continuous Improvement	<input type="checkbox"/> CI	After Depletion of Current	<input type="checkbox"/> ADC	Engineering Manager	8/9/02
Cost Reduction	<input checked="" type="checkbox"/> CR	Next Job Release	<input checked="" type="checkbox"/> NJR	Materials	8/9/02
Component Substitution	<input type="checkbox"/> CS	(2 nd or 4 th Friday of Month)		Manufacturing Engineering	8/9/02
Marketing Change	<input type="checkbox"/> MC	Rework Parts		Project Engineers	8/9/02
Manufacturing Release	<input type="checkbox"/> MR	On Order	<input type="checkbox"/> ROO		8/9/02
Omission or Error	<input type="checkbox"/> OE	In Stock	<input type="checkbox"/> RIS		8/9/02
Product Enhancement	<input type="checkbox"/> PE	In Process	<input type="checkbox"/> RIP		8/9/02
Regulatory Requirement	<input type="checkbox"/> RR	In Finished Goods	<input type="checkbox"/> RIF		8/9/02
Software Update	<input type="checkbox"/> SU	Other: Explain	<input type="checkbox"/> OTH		8/9/02
Specification Change	<input type="checkbox"/> SC				8/9/02
Other:	<input type="checkbox"/> OTH				8/9/02
See Attached Impact Sheet		Cost Δ \$		Effectivity	8/9/02
				ECN Distribution	8/9/02

ECN_H April 21, 1998

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BK

Date:	Project #:	Project Engineer: Robert Boatright / Ray Larsen	ECN # 2278
Product: Drive Rack	Reason For Change:		
Assy. Name: PA	Add solder mask to vias on solder side of board		
Assy. Number: 80-1790			
Revision: D	To: E		

Instructions:

Add solder mask to vias on solder side of board for PCB 80-1790

Up date the following 05 and related assemblies to match new board revision.
05-1790 dbx PA

Update all 0603 parts on the PCB to remove the silkscreen outline

**** Delete ****		Quantity	
Item Description	Item #	From	To

**** Add ****		Quantity	
Item Description	Item #	From	To

Reason for Change	Reason:	Effectivity / Priority	Priority:	Signatures	Date
Continuous Improvement	<input checked="" type="checkbox"/> CI	After Depletion of Current	<input type="checkbox"/> ADC	Engineering Manager	
Cost Reduction	<input type="checkbox"/> CR	Next Job Release	<input checked="" type="checkbox"/> NJR	<i>John S. Harmon</i>	10/17/02
Component Substitution	<input type="checkbox"/> CS	(2 nd or 4 th Friday of Month)		Materials	Set Effectivity Below
Marketing Change	<input type="checkbox"/> MC	Rework Parts		<i>David Mellen</i>	10/17/02
Manufacturing Release	<input type="checkbox"/> MR	On Order	<input type="checkbox"/> ROO	Manufacturing Engineering	
Omission or Error	<input type="checkbox"/> OE	In Stock	<input type="checkbox"/> RIS	<i>Ray Larsen</i>	10/17/02
Product Enhancement	<input type="checkbox"/> PE	In Process	<input type="checkbox"/> RIP	Project Engineer	All Documents approved
Regulatory Requirement	<input type="checkbox"/> RR	In Finished Goods	<input type="checkbox"/> RIF	<i>Ray Larsen</i>	10/30/02
Software Update	<input type="checkbox"/> SU	Other: Explain	<input type="checkbox"/> OTH		
Specification Change	<input type="checkbox"/> SC				Effectivity 10/21/02
Other:	<input type="checkbox"/> OTH				
See Attached Impact Sheet Cost Δ				ECN Distribution	10/31/02

ECN_H April 21, 1998

Dist: STD; Engineering Files, Materials, Manuf. Eng., Manufacturing, Stockroom, Sales/Customer Service, Technical Service, Product Development, Proj. Engineer

84

Date: 9-28-03	Project #: 512	Project Engineer: Robert Boatright	ECN # 2672
Product: dbxPA,-EU,-B	Assy. Name: dbxPA PCB	Reason For Change: Output jacks can pick up radio stations.	
Assy. Number: 05-1790	Revision: E0	To: E1	

Instructions:
 Revise schematics to substitute R0-C5-0603 (50-1300) resistors at reference designators L15, L26, L27, L28, L29, & L30 for the existing LFB260001 (26-0001) ferrite beads.

Roll revision of 05-1790 from E0 to E1. Update BOM as specified below.

**** Delete ****		Quantity	
Item Description	Item #	From	To
Ind Ferrite Bead 2.5k ohm SM 0603	26-001	18	12

**** Add ****		Quantity	
Item Description	Item #	From	To
RES 5% 0 OHM 0603 SM	50-1300	15	21

Reason for Change	Reason:	Effectivity / Priority	Priority:	Signatures	Date
Continuous Improvement	<input checked="" type="checkbox"/> CI	After Depletion of Current	<input type="checkbox"/> ADC	Engineering Manager	9/29/03
Cost Reduction	<input type="checkbox"/> CR	Next Job Release	<input checked="" type="checkbox"/> NJR	Materials	9/29/03
Component Substitution	<input type="checkbox"/> CS	(2 nd or 4 th Friday of Month)		Set Effectivity Below	
Marketing Change	<input type="checkbox"/> MC	Rework Parts		David Mellan	9.29.03
Manufacturing Release	<input type="checkbox"/> MR	On Order	<input type="checkbox"/> ROO	Manufacturing Engineering	9/29/03
Omission or Error	<input type="checkbox"/> OE	In Stock	<input type="checkbox"/> RIS	Project Engineer	9.29.03
Product Enhancement	<input type="checkbox"/> PE	In Process	<input type="checkbox"/> RIP	All Documents approved	9.29.03
Regulatory Requirement	<input type="checkbox"/> RR	In Finished Goods	<input type="checkbox"/> RIF		
Software Update	<input type="checkbox"/> SU	Other: Explain	<input type="checkbox"/> OTH		
Specification Change	<input type="checkbox"/> SC				
Other:	<input type="checkbox"/> OTH				
See Attached Impact Sheet Cost Δ \$				Effectivity	9.29.03
				ECN Distribution	

ECN_H April 21, 1998

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Date: 7/16/03 **Project #:** 512
Product: dbx PA,-EU, -B
Assy. Name: IC AM29LV040B
Assy. Number: 72-5539-03V1
Revision: 00 **To:** 01

Project Engineer: Robert Boatright **ECN #** 2611
Reason For Change: Misc S/W bugs and AFS algorithm enhancement.

Instructions:
 Update system flash software from 72-5539-03V1.00 to 72-5539-03V1.01.

**** Delete ****		Quantity	
Item Description	Item #	From	To

**** Add ****		Quantity	
Item Description	Item #	From	To

Reason for Change	Reason:	Effectivity / Priority	Priority:	Signatures	Date
Continuous Improvement	◆ CI	After Depletion of Current	<input type="checkbox"/> ADC	Engineering Manager	7-16-03
Cost Reduction	<input type="checkbox"/> CR	Next Job Release	◆ NJR	Materials	7-21-03
Component Substitution	<input type="checkbox"/> CS	(2 nd or 4 th Friday of Month)		Set Effectivity Below	
Marketing Change	<input type="checkbox"/> MC	Rework Parts		Manufacturing Engineering	7-17-03
Manufacturing Release	<input type="checkbox"/> MR	On Order	<input type="checkbox"/> ROO	Project Engineer	7-17-03
Omission or Error	<input type="checkbox"/> OE	In Stock	<input type="checkbox"/> RIS	All Documents approved	7-17-03
Product Enhancement	◆ PE	In Process	<input type="checkbox"/> RIP	Effectivity	7-21-03
Regulatory Requirement	<input type="checkbox"/> RR	In Finished Goods	<input type="checkbox"/> RIF	ECN Distribution	
Software Update	◆ SU	Other: Explain	<input type="checkbox"/> OTH		
Specification Change	<input type="checkbox"/> SC				
Other:	<input type="checkbox"/> OTH				
See Attached Impact Sheet	CostΔ \$				

ECN_H April 21, 1998

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DriveRack PA Software Release: V1.010

Date: July 16, 2003

Product: dbx DriveRack PA

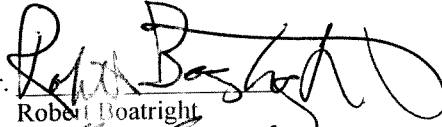
Part Number: 72-5539-03V1 Rev. 01

Previous Software Version: V1.000

DriveRack PA File Names: 23101001.h01, 23101001.h02, 23101001.h03, 23101001.h04,
23101001.h05, 23101001.h06, 23101001.h07, 23101001.h08

DriveRack PA Check Sum: 0x9826

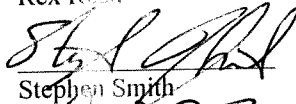
Project Engineer:


Robert Boatright

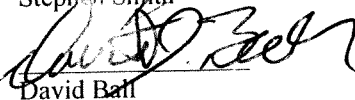
DSP Eng.


Rex Reed

Software Eng.


Stephen Smith

AP Tester


David Ball

DriveRack PA Additions to V1.000:

None

DriveRack PA Bugs Fixed in V1.000:

1. GEQ filter double-precision up to and including band 6.3kHz.
2. Fixed gain in crossover OUT for Butterworth low-pass filter.
3. Fixed coefficients in PEQ low-pass shelf (Wizard parameters for cases affected by this have been adjusted to compensate).

DriveRack PA Changes to V1.000:

1. AFS algorithm variables changed from ULONG to UINT where possible and rd_new_peak_bin() has been created and used by the AFS algorithm. The algorithm will run faster.

Date: 8 FEB 05	Project #: 512	Project Engineer: Dan Burdette	ECN # 30146
Product: dbx PA,-EU, -B	Reason For Change: Software upgrade. Added wizard for Crown amps, fixed two bug, updated amplifier tables.		
Assy. Name: IC AM29LV040B			
Assy. Number: 72-5539-03V1			
Revision: 01	To: 10		

Instructions:
Update system flash software from 72-5539-03V1.010 to 72-5539-03V1.100.

**** Delete ****		Quantity	
Item Description	Item #	From	To

**** Add ****		Quantity	
Item Description	Item #	From	To

Reason for Change	Reason:	Effectivity / Priority	Priority:	Signatures	Date
Continuous Improvement	◆ CI	After Depletion of Current	<input type="checkbox"/> ADC	Engineering Manager	2/8/05
Cost Reduction	<input type="checkbox"/> CR	Next Job Release	◆ NJR	<i>Chore D/V</i>	2/8/05
Component Substitution	<input type="checkbox"/> CS	(2 nd or 4 th Friday of Month)		Materials	2/9/05
Marketing Change	<input type="checkbox"/> MC	Rework Parts		<i>Bonner</i>	2/9/05
Manufacturing Release	<input type="checkbox"/> MR	On Order	<input type="checkbox"/> ROO	Manufacturing Engineering	2/10/05
Omission or Error	<input type="checkbox"/> OE	In Stock	<input type="checkbox"/> RIS	<i>Wey</i>	2/10/05
Product Enhancement	◆ PE	In Process	<input type="checkbox"/> RIP	Project Engineer	2/10/05
Regulatory Requirement	<input type="checkbox"/> RR	In Finished Goods	<input type="checkbox"/> RIF	<i>Dan Burdette</i>	2/10/05
Software Update	◆ SU	Other: ^{Explain}	<input type="checkbox"/> OTH	<i>Bonner</i>	2/9/05
Specification Change	<input type="checkbox"/> SC			Effectivity	2/9/05
Other:	<input type="checkbox"/> OTH			<i>BK</i>	2-11-05
See Attached Impact Sheet		Cost Δ \$		ECN Distribution	2-11-05

ECN_H April 21, 1998
Dist: STD; Engineering Files, Materials, Manuf. Eng., Manufacturing, Stockroom, Sales/Customer Service, Technical Service, Product Development, Proj. Engineer

BK

DriveRack PA Software Release: V1.100

Date: February 8, 2005

Product: dbx DriveRack PA


Part Number: 72-5539-03V1 Rev. 10

Previous Software Version: V1.010

DriveRack PA File Names: 23110001.h01, 23110001.h02, 23110001.h03, 23110001.h04,
23110001.h05, 23110001.h06, 23110001.h07, 23110001.h08

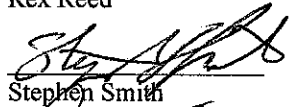
DriveRack PA Check Sum: 0xC08E

DSP Eng.



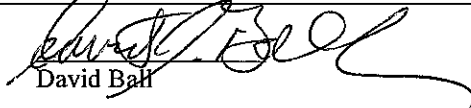
Rex Reed

Software Eng.



Stephen Smith

AP Tester



David Bah

DriveRack PA Additions to V1.010:

1. Wizard support for the following Crown Amplifiers:

Xs500
Xs700
Xs900
Xs4300.

2. Wizard support for the following JBL speakers:

SoundFactor SF12M

JRX 112M
JRX 115
JRX 125
JRX 118S (Sub)
JRX 118SP (Powered Sub)

SRX 712X
SRX 715X
SRX 722X
SRX 725X
SRX 738X
SRX 718 (Sub)
SRX 728 (Sub)

DriveRack PA Bugs Fixed in V1.010:

1. Get_initial_amp_level() fixed to accommodate negative number in the amp tables as per initial fix in DriveRack 260.
2. Modify_amp_selection() fixed as per initial fix in DriveRack 260. If an amp selection is changed, the amp->sensitivity is reset to zero before resetting the initial amp level.

DriveRack PA Changes to V1.010:

1. Changes to the following amplifier tables as per latest values in the DriveRack 260:
Crown PowerTech 1.1 (0.775 Volt Sensitivity and 1.4 Volt Sensitivity)
Crown PowerTech 2.1 (1.4 Volt Sensitivity)
Crown K1 (1.4 Volt and 26dB Sensitivity)

