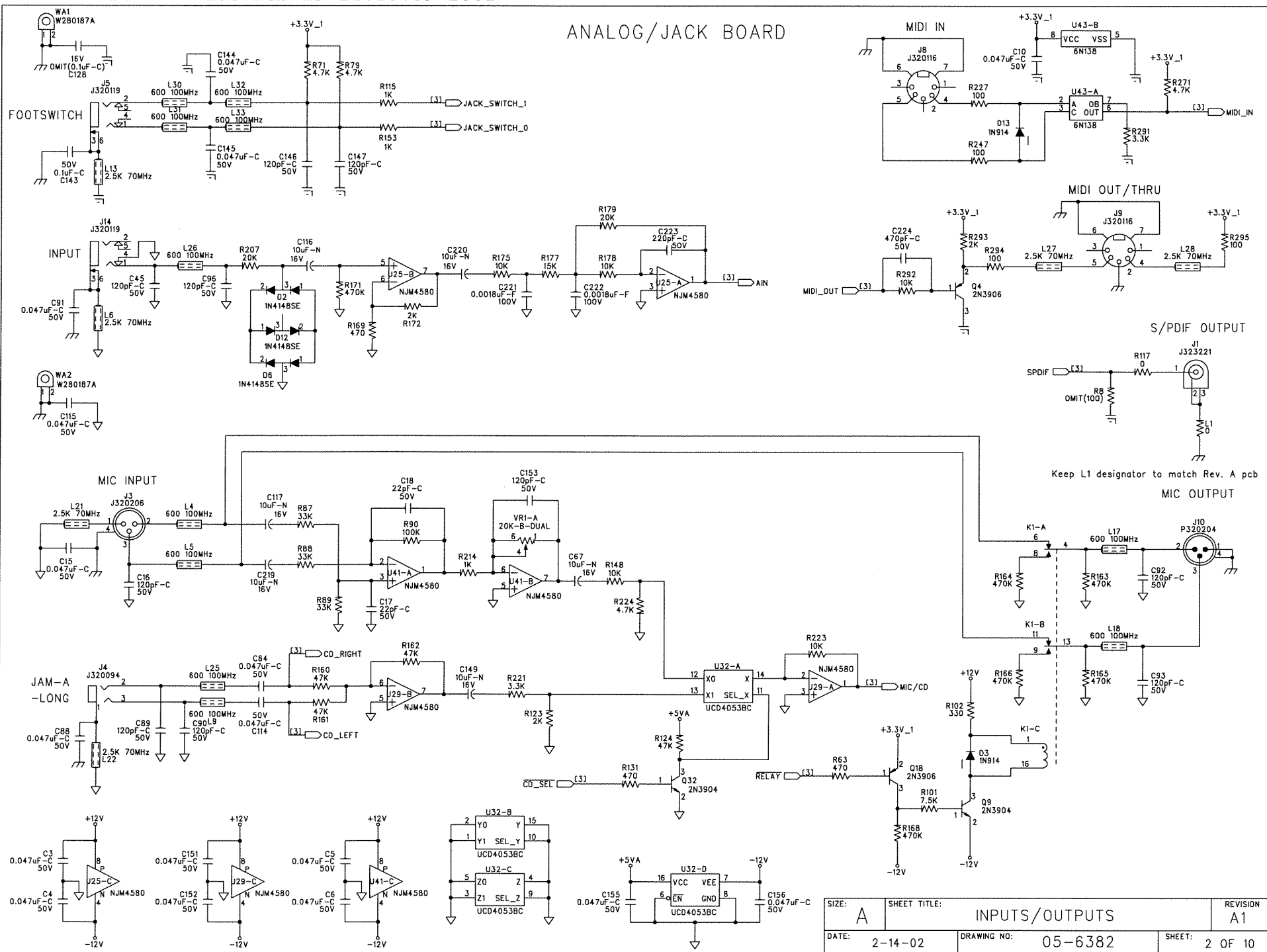


A1	PRE-PRODUCTION RELEASE	1960	ACL	2-14-02
A0	RELEASE RAW PCB FOR PRODUCTION		ACL	2-6-02
REV	DESCRIPTION	ECN #	INIT	DATE
REVISION HISTORY				
DigiTech 8760 South Sandy Parkway Sandy Utah 84070				
TITLE: GNX3				
DESIGNER: D. PECTOL		ENGINEER: A. LOVEGROVE		
SIZE: A	DRAWING NO: 05-6382			REVISION A1
DATE: 2-14-02	FILENAME: 056382A1.SCH	SHEET:	1 OF 10	

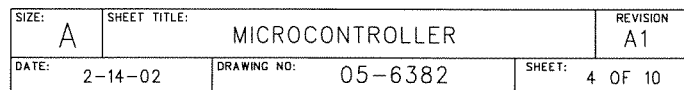
ANALOG/JACK BOARD

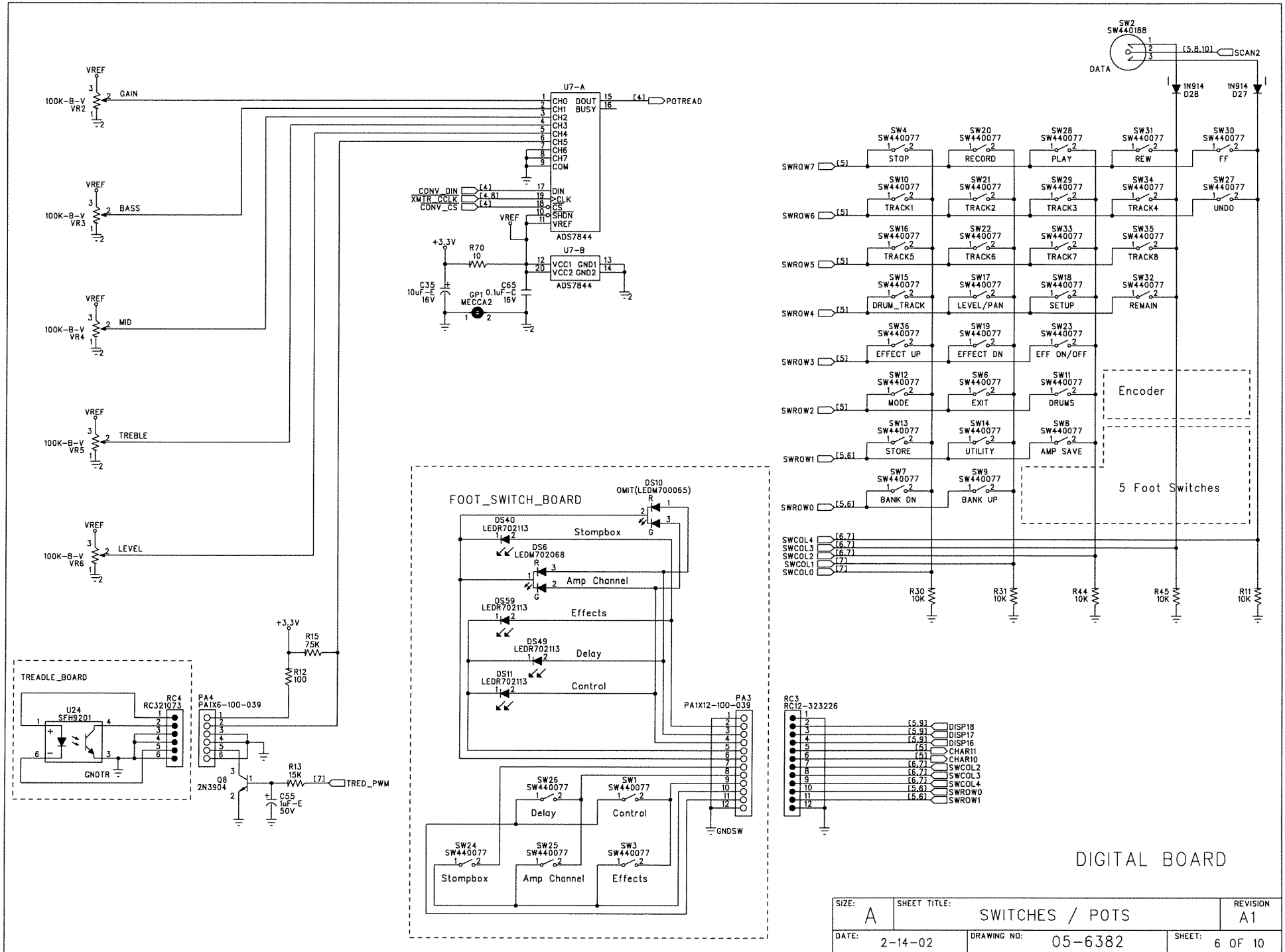


Keep L1 designator to match Rev. A pcb

MIC OUTPUT

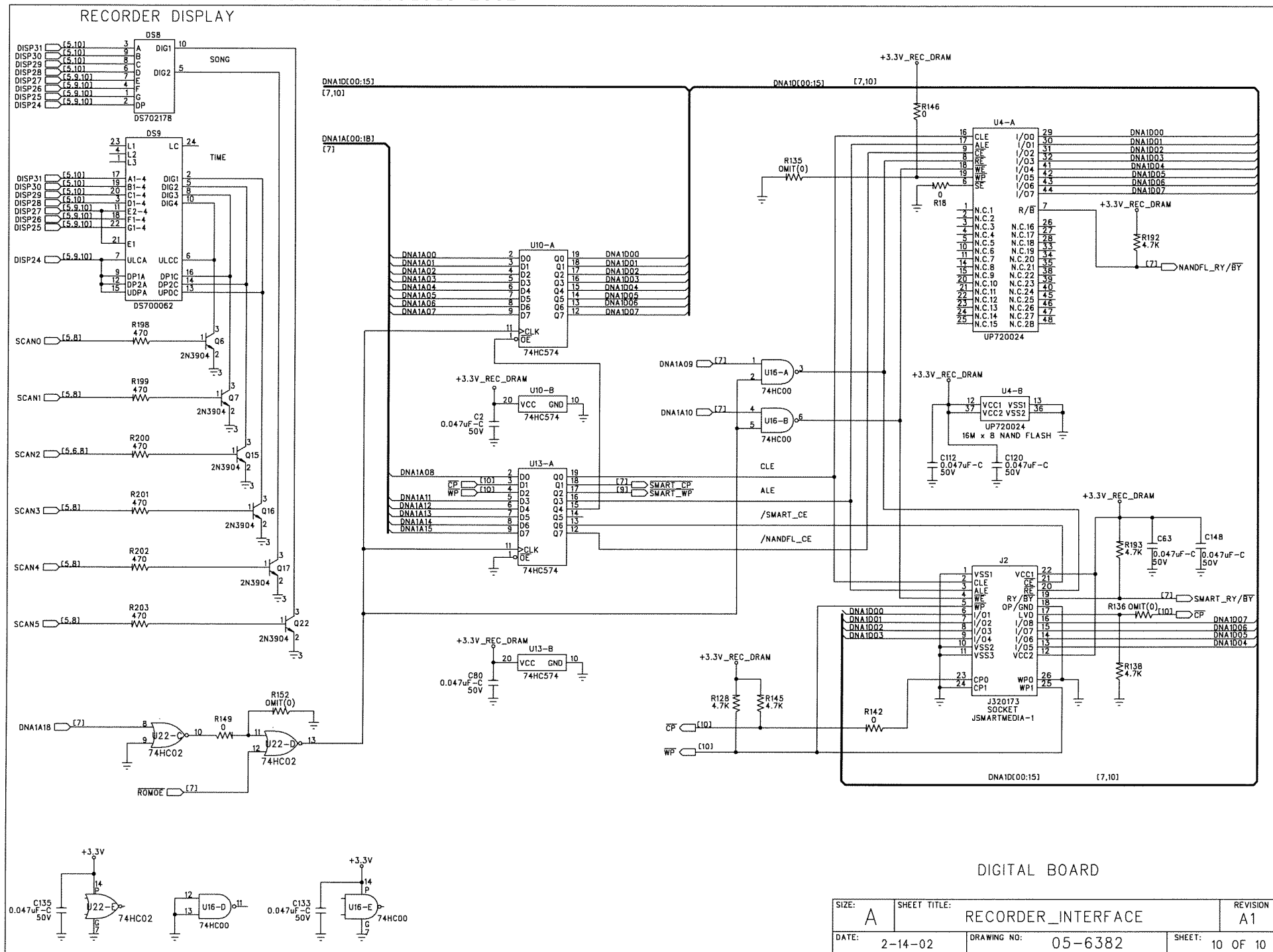
SIZE: A	SHEET TITLE: INPUTS/OUTPUTS	REVISION: A1
DATE: 2-14-02	DRAWING NO: 05-6382	SHEET: 2 OF 10





SIZE: A	SHEET TITLE: SWITCHES / POTS	REVISION: A1
DATE: 2-14-02	DRAWING NO: 05-6382	SHEET: 6 OF 10

SIZE: A	SHEET TITLE: AUDIO DNA STRAND #3	REVISION: A1
DATE: 2-14-02	DRAWING NO: 05-6382	SHEET: 9 OF 10



Bill Of Materials for 056382A1.sch on Thu Feb 14 09:45:34 2002

Qty	Reference	HMG#	Description	Audit	Schematic Part	PCB Decal
1	PCB1	80-6382	PCB 80-6382 GNX3 MAIN BOARD RAW	PT2044	80XXXXXXYY	BARCODE
4	A9-12	NON-PART	NON-PART, PCB ONLY, BREAKOFF PART	PT1481	BRKOFF	BRKOFF
2	C221-222	56-0026	CAP 0.0018uF FILM PTR 100V 5% RF TA	PT2313	C0.0018UF100JR	RFDC200
10	C22 C27 C58 C228-230 C233-236	56-0002	CAP 0.0022uF FILM PTR 100V 5% RF TA	PT1001	C0.0022UF100JR	RFCC200
94	C2-6 C9-13 C15 C19 C21 C23 C28-29 C36 C41-44 C46-47 C49-50 C53 C59 C62-64 C71-82 C84-85 C88 C91 C94-95 C97-104 C109 C111-112 C114-115 C118-127 C129-133 C135-136 C138-140 C142 C144-145 C148 C150-152 C155-156 C166-167 C217-218	62-1309	CAP 0.047uF CER 50V 20% Y5V 0603 TA	PT2650	C0.047UC50M0603	0603
4	C24-26 C65	62-1310	CAP 0.1uF CER 16V 20% Y5V 0603 TA	PT2696	C0.1UC16M0603	0603
1	C128	OMIT	OMIT CAP 0.1uF CER 16V 20% Y5V 0603 TA (62-1310)	PT2711	C0.1UC16M0603O	0603
3	C143 C157-158	62-1312	CAP 0.1uF CER 50V +80%/-20% Y5V 0603 TA	PT2687	C0.1UC50Z0603	0603
6	C1 C34 C105-108	62-1308	CAP 1000pF CER 50V 20% Y5V 0603 TA	PT2651	C1000PC50M0603	0603
4	C14 C54 C60 C154	60-0064	CAP 1000uF EL 16V 20% GP 10x17R 5LL BK	PT1334	C1000UE16MR	REM200P
3	C30 C39 C69	60-0094	CAP 1000uF EL 35V 20% GP 13x25R 15LL BK	PT2425	C1000UE35MR2	REQ200PHT
12	C35 C83 C110 C134 C141 C159-165	60-1071	CAP 10uF EL 16V 20% GP 4x5R 2.5LS TA	PT2197	C10UE16MR1	RED100P
5	C20 C31 C40 C61 C137	60-1074	CAP 10uF EL 50V 20% HT 5x11R 5LS TA	PT1972	C10UE50MR1	REE200P
12	C56-57 C67-68 C70 C86-87 C116-117 C149 C219-220	60-0051-01	CAP 10uF ELNP 16V 20% GP 5x11R 5LS TA	PT1449	C10UN16MR	REE200
12	C16 C32 C45 C66 C89-90 C92-93 C96 C146-147 C153	62-1304	CAP 120pF CER 50V 5% NPO 0603 TA	PT2655	C120PC50J0603	0603
4	C7-8 C37-38	62-1300	CAP 15pF CER 50V 5% NPO 0603 TA	PT2659	C15PC50J0603	0603
3	C51-52 C227	60-0044-01	CAP 1uF EL 50V 20% GP 5x7R 5LS TA	PT1079	C1UE50MR	RED200P
1	C55	60-1076	CAP 1uF EL 50V 20% GP 4x5R 2.5LS TA	PT2445	C1UE50MR1	RED100P
5	C223 C231-232 C238-239	62-1305	CAP 220pF CER 50V 10% X7R 0603 TA	PT2654	C220PC50K0603	0603
2	C17-18	62-1301	CAP 22pF CER 50V 5% NPO 0603 TA	PT2658	C22PC50J0603	0603
1	C113	62-1306	CAP 330pF CER 50V 10% X7R 0603 TA	PT2653	C330PC50K0603	0603
1	C224	62-1307	CAP 470pF CER 50V 10% X7R 0603 TA	PT2652	C470PC50K0603	0603
2	C33 C48	62-1303	CAP 68pF CER 50V 5% NPO 0603 TA	PT2656	C68PC50J0603	0603
9	D1 D14-17 D23-26	70-0017	DIO, 1N4005, 600V, 1 AMP, RDB200, AMMO	PT1455	D1N4005-R	RDB200
5	D2 D6 D11-12 D18	70-0113	DIO MMBD4148SE DUAL 75V 600mA SOT-23 TA	PT1326	D1N4148SE-S	SOT-23
12	D3-5 D13 D19-20 D27-32	70-0110	DIO, 1N914, HIGH-SPEED SWITCHING, SOT-23, T&R	PT1004	D1N914-S	SOT-23
1	DS9	70-0062	DIS GRN 4 DIG CLOCK FREQ	PT2730	DS700062	DS7SEG4
4	DS19 DS23 DS36-37	70-2069	DIS LTP3784 GRN DUAL 14 SEGMENT	PT2303	DS702069	DS14SEG2
1	DS20	70-2129	DIS RED DUAL 7-SEG DIP	PT2298	DS702129	DISPLAY18
1	DS8	70-2178	DIS GRN DUAL 7-SEG DIP	PT2732	DS702178	DS7SEG-2
1	D7	70-0147	DIO SCHOTTKY 1A SS14 DO-214AC/SMA	PT1877	DSS14S	DO-214AC/SMA
1	F2	32-0024	FUSE, 2.5A, RESETTABLE FUSE, POLYSWITCH, BULK	PT1600	F2.5A320024	FUSE2
11	A1-8 A31-33	NON-PART	NON-PART, FIDUCIAL, TARGET FOR AUTO INSERTION	PT1271	FIDUCIAL	FIDUCIAL
1	PA5	OMIT	OMIT HDR 20 PIN 0.1" SPC 2 X 10 VERT MALE (32-1055)	PT2179	HDR321055-O	HC102
1	PA6	OMIT	OMIT HDR 14 PIN 0.1" SPC 2 X 7 VERT MALE (32-1083)	PT2127	HDR321083-O	HC72
1	J6	32-0089	JACK POWER BARREL JACK 2.5MM	PT1918	J320089	J320089
1	J4	32-0094	CON JACK 1/8" PHONE INS HZ MT	PT2443	J320094	J320094
2	J8-9	32-0116	CON JACK SHIELDED 5 PIN DIN PCB MOUNT	PT2370	J320116	J320116

056382a1.PPS					
5	J5 J11-14	32-0119	CON, JACK, 1/4 PHONO, FULL NOSE THREAD, SLIMLINE	PT1359 J320119	J320119
1	J2	32-0173	JACK SMART MEDIA PCB CONNECTOR CN015R SERIES SMT	BDP J320173	JSMARTMEDIA-1
1	J3	32-0206	CON, JACK, XLR, R/A, PCA A SERIES	PT1219 J320206	XLRF-1
1	J1	32-3221	CON JACK RCA SINGLE W/SHIELD HSP-241V2B	PT2327 J323221	JHSP-241V2
1	K1	72-5142	RELAY, DPDT, 24VDC POLARIZED	PT1384 K725142	K725142
5	DS30 DS32-34 DS41	70-3207	LED GREEN D1206 T&R	PT1902 LEDG703207	D1206
16	DS1-5 DS7 DS12-18 DS21-22 DS25	70-1920	LED RED/GRN WT/DIF SM 1210 TA	PT2428 LEDM701920	LED1210
3	DS6 DS24 DS46	70-2068	LED, BI-CLR, RED/GRN, COMMON CATHODE, T-1	PT1568 LEDM702068	RL3E079
3	DS10 DS35 DS44	OMIT	OMIT LED, BI-CLR, RED/GRN, COMMON CATHODE, T-1 (70-0065)	BDP LEDM700065-O	RL3E100
4	DS11 DS40 DS49 DS59	70-2113	LED, RED, T1, RADIAL, AMMO	PT1058 LEDR702113	RLC100
17	DS26-29 DS31 DS38-39 DS42-43 DS91-98	70-3209	LED RED D1206 T&R	PT1901 LEDR703209	D1206
5	L2-3 L7 L12 L23	26-0215	IND FBD 70 OHM @ 100MHz RIC200 TA	PT1262 LFB260215	RIC200
10	L6 L13 L16 L19 L21-22 L24 L27-29	26-0217	IND FBD 2.5K OHM @ 70MHz 0805 TA	PT1261 LFB260217	0805
17	L4-5 L8-11 L14-15 L17-18 L20 L25-26 L30-33	26-0219	INDUCTOR, FERRITE BEAD, 600 OHM @ 100MHz, 0805, T&R	PT1453 LFB260219	0805
1	L36	26-0002	INDUCTOR POWER 100uH 3A	DWB LI260002	UP3B
1	GP1	NON-PART	NON-PART MECCA GND/PWR TIE POINT 2 POS	PT2480 MECCA2	MECCA2
26	MH3-20 MH25-28 MH30-33	NON-PART	NON-PART, MOUNTING HOLE, 0.130" NON-PLATED, #4	PT1242 MH130	MH130
5	MH21-24 MH29	NON-PART	NON-PART, MOUNTING HOLE, 0.156" NON-PLATED, #6	PT1044 MH156	MH156
1	MH34	NON-PART	NON-PART, MOUNTING HOLE, 0.312" NON-PLATED	BDP MH312	MH312
2	MH1-2	NON-PART	NON-PART, TOOLING PIN HOLE, 156MIL HOLE	PT1416 MH156-TOOL	MH156-TOOL
1	J10	32-0204	CON, PLUG, XLR, R/A, PCA A SERIES	PT1218 P320204	XLRM-1
2	PA1-2	NON-PART	NON-PART, PAD ARRAY, 12 PIN, 2mm SPACING, 0.039" HOLE	PT1545 PA1X12-079-039	PA1X12-079-039
1	PA3	NON-PART	NON-PART, PAD ARRAY, 12 PIN, 0.1"SPACING, 0.039" HOLE	jb PA1X12-100-039	PA1X12-100-039
1	PA4	NON-PART	NON-PART PAD ARRAY 6 PN 0.1"SPC 0.039" HLE	PT2134 PA1X6-100-039	PA1X6-100-039
2	Q13 Q25	70-1155	XSTR, 2N6714, NPN, MEDIUM POWER, RADIAL	PT1595 Q2N6714	TO92 (EBC) -V
2	Q24 Q26	70-1156	XSTR, 2N6726, PNP, MED POWER TRANSISTOR, TO92 (EBC) -V, AMMO	PT1534 Q2N6726	TO92 (EBC) -V
26	Q1-3 Q5-12 Q14-17 Q19-23 Q27-32	70-1058	XSTR, 2N3904, NPN, SOT-23, T&R	PT1203 Q2N3904-S	SOT-23
2	Q4 Q18	70-1059	XSTR 2N3906 PNP SOT-23 SM TA	PT1057 Q2N3906-S	SOT-23
23	L1 R1 R17-19 R76 R91 R117-118 R130 R142-143 R146-147 R149 R189-191 R208-209 R216-218	50-1300	RES 0 5% 1/16W SM 0603 TA	PT2508 R0-B5-0603	0603
6	R4 R116 R135-136 R144 R152	OMIT	OMIT RES 0 5% 1/16W SM 0603 TA (50-1300)	PT2509 R0-B5-0603O	0603
2	R122 R187	50-0317	RES 0 5% 1/4W CF RR TA	PT1008 R0-E5-R	RRA200
6	R33-34 R46-47 R70 R111	50-1301	RES 10 5% 1/16W SM 0603 TA	PT2516 R10-B5-0603	0603
65	R5 R7 R12 R27-29 R32 R37 R48-58 R72-73 R75 R96-100 R103 R108-110 R114 R121 R125-127 R134 R137 R139-141 R157 R173-174 R176 R180-186 R188 R194-197 R206 R210-212 R227 R247 R294-295	50-1305	RES 100 5% 1/16W SM 0603 TA	PT2522 R100-B5-0603	0603
1	R8	OMIT	OMIT RES 100 5% 1/16W SM 0603 TA (50-1305)	PT2523 R100-B5-0603O	0603
1	R90	50-1331	RES 100K 5% 1/16W SM 0603 TA	PT2637 R100KB5-0603	0603
20	R11 R16 R30-31 R36 R44-45 R104-105 R148 R158-159 R175 R178 R223 R292	50-1320	RES 10K 5% 1/16W SM 0603 TA	PT2571 R10KB5-0603	0603

3	R297-298 R311-312	50-1307	RES 120 5% 1/16W SM 0603 TA	PT2525	R120-B5-0603	0603
6	R40 R119-120	50-1321	RES 15K 5% 1/16W SM 0603 TA	PT2573	R15KB5-0603	0603
	R13 R177 R301 R308 R315-316					
7	R81 R93 R115 R132 R153-154 R214	50-1313	RES 1K 5% 1/16W SM 0603 TA	PT2534	R1KB5-0603	0603
2	R3 R113	50-1336	RES 1M 5% 1/16W SM 0603 TA	PT2645	R1MB5-0603	0603
2	R22 R112	50-1315	RES 2.2K 5% 1/16W SM 0603 TA	PT2538	R2.2KB5-0603	0603
2	R179 R207	50-1322	RES 20K 5% 1/16W SM 0603 TA	PT2575	R20KB5-0603	0603
1	R67	50-1323	RES 22K 5% 1/16W SM 0603 TA	PT2586	R22KB5-0603	0603
1	R215	52-1316	RES 2K 1% 1/16W SM 0603 TA	PT2553	R2KB1-0603	0603
7	R61-62 R64 R66 R123 R172 R293	50-1314	RES 2K 5% 1/16W SM 0603 TA	PT2536	R2KB5-0603	0603
1	R225	52-1324	RES 3.32K 1% 1/16W SM 0603 TA	PT2562	R3.32KB1-0603	0603
10	R170 R221 R291 R296 R299-300 R309-310 R313-314	50-1316	RES 3.3K 5% 1/16W SM 0603 TA	PT2539	R3.3KB5-0603	0603
3	R74 R80 R102	50-1309	RES 330 5% 1/16W SM 0603 TA	PT2528	R330-B5-0603	0603
5	R38 R59 R87-89	50-1325	RES 33K 5% 1/16W SM 0603 TA	PT2589	R33KB5-0603	0603
18	R2 R6 R14 R23-24 R65 R71 R79 R128-129 R138 R145 R192-193 R219 R222 R224 R271	50-1317	RES 4.7K 5% 1/16W SM 0603 TA	PT2541	R4.7KB5-0603	0603
31	R20-21 R25-26 R35 R39 R41 R63 R68-69 R82-86 R92 R94-95 R106-107 R131 R169 R198-205 R213	50-1310	RES 470 5% 1/16W SM 0603 TA	PT2529	R470-B5-0603	0603
12	R9-10 R42-43 R133 R155 R163-166 R168 R171	50-1335	RES 470K 5% 1/16W SM 0603 TA	PT2643	R470KB5-0603	0603
10	R60 R124 R156 R160-162 R167 R220 R306-307	50-1327	RES 47K 5% 1/16W SM 0603 TA	PT2630	R47KB5-0603	0603
1	R101	50-1319	RES 7.5K 5% 1/16W SM 0603 TA	PT2569	R7.5KB5-0603	0603
2	R77-78	50-1312	RES 750 5% 1/16W SM 0603 TA	PT2533	R750-B5-0603	0603
1	R15	50-1330	RES 75K 5% 1/16W SM 0603 TA	PT2635	R75KB5-0603	0603
2	RC1-2	32-1207	RBN CBL 12 COND 2mm SP STRIPPED BOTH ENDS 8" LONG	PT2302	RC12-321207	PA1X12-079-039
1	RC3	32-3226	RBN CBL 12 COND. 0.1 SPC 2" LONG	PT2708	RC12-323226	PA1X12-100-039
1	RC4	32-1073	RBN CBL 6 COND 0.1 SP 4" LONG	PT2346	RC6-321073	PA1X6-100-039
4	RH1_A RH1_B RH2_A RH2_B	32-1222	RIBBON CABLE HOLDER, 12 PIN, 2mm PITCH	PT1638	RCH321222	RCH12-079
1	SW5	44-0013	SWITCH PWR ROCKER DPST DA250VAC	PT2394	SW440013	SW440013-AL1
34	SW1 SW3-4 SW6-36	44-0077	SWITCH SPST TACT RADIAL	PT1612	SW440077	SW440077
1	SW2	44-0188	ENCODER 12mm 24 DTNT 20mm SHAFT VERT	PT2661	SW440188	SW440188
1	U3	70-4014	V-REG, 7805, +5V, 1.5 AMP, TO-220	PT1591	U7805	TO220 (IGO) -V
1	U15	70-4013	V-REG, 7812, +12V, 1 AMP, TO-220	PT1646	U7812	TO220 (IGO) -V
1	U19	70-4017	V-REG, 7912, -12V, 1 AMP, TO-220	PT1654	U7912	TO220 (GIO) -V
2	U26 U31	72-0023	IC DRAM 1M x16 50ns CMOS SM TSOP11	PT2715	U1M16D50T	TSOP1150-21X12
1	U12	72-6318	IC 32K x 8 SRAM 15ns SOJ28	PT2294	U32K8S15-J	SOJ28-300
1	U43	70-2146	IC, 6N138, OPTO ISOLATOR, DIP8-300-S	PT1492	U6N138-S1	DIP8-300-S
1	U16	72-5418	IC, 74HC00, QUAD 2-INPUT NAND, SO14, T&R	PT1348	U74HC00-S	SO14
1	U22	72-1085	IC, 74HC02, QUAD 2-INPUT NOR, SO14	PT1514	U74HC02-S	SO14
5	U10 U13-14 U18 U21	72-1263	IC, 74HC574, FLIP-FLOP, EDGE TRIGGERED, OCTAL, SO20W, T&R	PT1352	U74HC574-S	SO20W
1	U5	72-6319	IC W78L52 8 BIT MICROCONTROLLER PLCC44	PT2329	U78L52P-24	PLCC-44
1	U7	72-5540	IC ADS7844 12-BIT ADC 8CH MUX 3.3V SSOP20	PT2315	UADS7844-SS	SSOP20
3	U2 U8 U27	72-5433	IC AUDIO DNA ATMEL QFP-144	PT2374	UAUDI0DNA	QFP144-20X20
1	U20	70-4146	V-REG +3.3V Low Dropout 1 AMP TO-220	PT2261	UBA033T/FP	TO220 (IGO) -V
1	U32	72-1422	IC, CD4053, MUX, TRIPLE 2 CHANNEL ANALOG, SO16	PT1577	UCD4053BC-S	SO16
1	U23	72-1470	IC, CS4224, 24 BIT CODEC CONVERTER, SSOP28	PT1483	UCS4224-S	SSOP28
1	U11	72-6317	IC CS8405A 96kHz DIGITAL AUDIO INTERFACE XMITTER	PT2449	UCS8405A-S	SO28W
1	U30	70-0063	V-REG LM2575S-ADJ SWITCHING REG 1A TO-263(5)	PT2739	ULM2575S-ADJ	TO-263 (5)

			056382a1.PPS		
1	U1	72-6308	IC NCP304 VOLTAGE DETECTOR SC-82AB	PT2393 UNCP304	SC-82AB
8	U6 U9 U25 U28-29 U33 U35 U41	72-1480	IC NJM4580 DUAL OP-AMP SO8	PT1374 UNJM4580-S	SO8
1	U4	72-0024-xxVy	IC 16M x 8 NAND 128 BIT TSOP FRAM <Enter Product Name>Vy	PT2723 UP720024	TSOP48
1	U17	72-6306-02V1	IC TE28F00B3T110 8 MEG FLASH GNX3 V1	PT2430 UP726306	TSOP48
1	U24	70-3169	IC SPH9201 REFLECTIVE INTERRUPTER SM SO6	PT2333 USFH9201-S	SO6-1
5	VR2-6	40-0081	POT 100K B 9mm ROT 300Deg 25mm D-SFT-V	PT2411 VR100K400081	VR9-25DV
2	VR1 VR7	40-2162	POT 20K B DUAL 14mm ROT 25mm D-SHAFT	PT2476 VR20K402162	VR14-25DH
5	WA1-2 WA5-7	28-0187-A	WASHER, GROUNDING FOR 32-0118/32-0119	PT1361 WA280187A	WA280187A
1	Y2	76-0004	XTAL 22.5792 MHz 18pF MTL CAN SM TA	PT2689 Y22.5792M760004	XTAL2-V
1	Y1	76-0202	XTAL 24.000MHz METAL CAN SURFACE MOUNT T&R	PT1928 Y24.000M760202	XTAL2-V