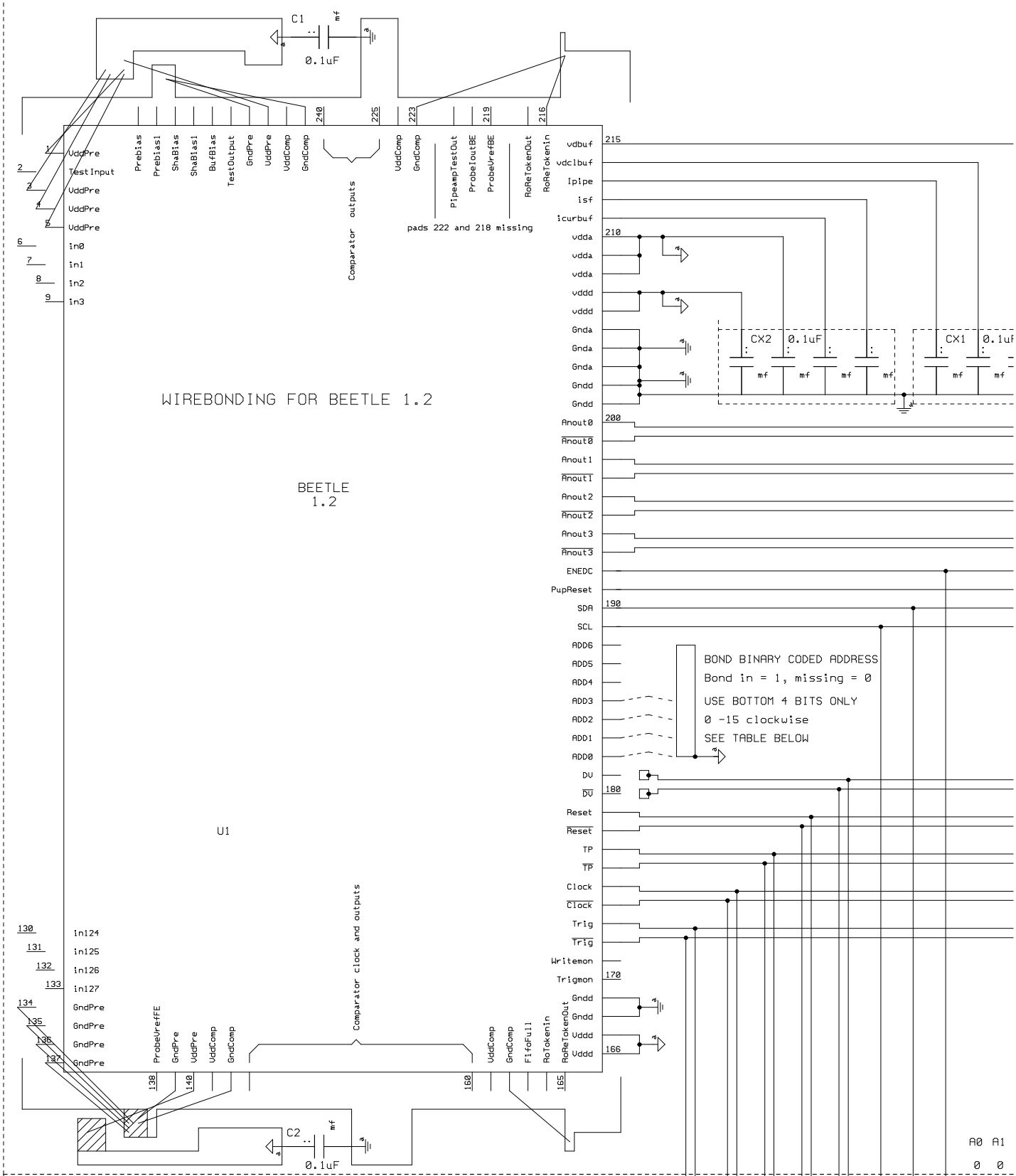
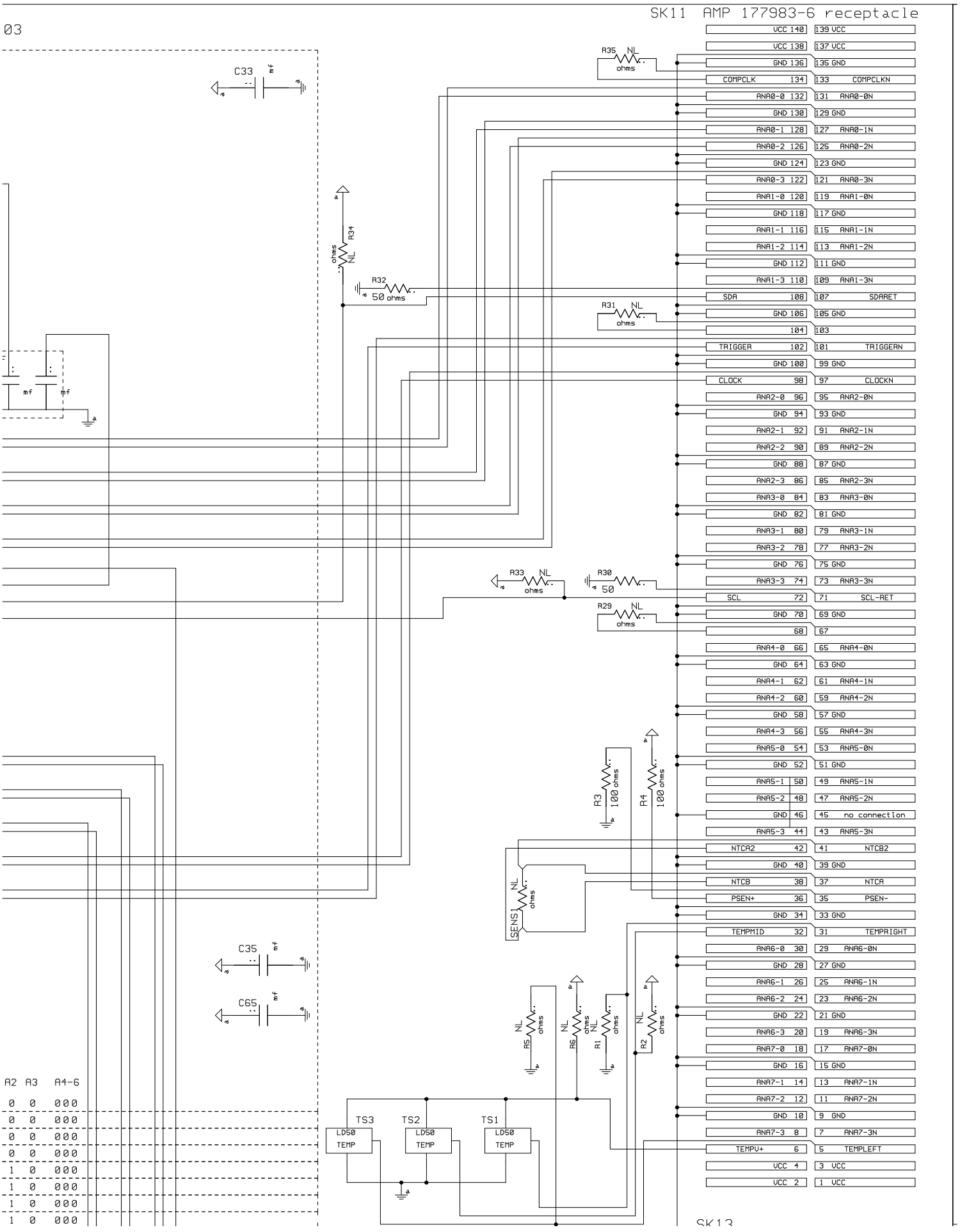
VELO BEETLE HYBRID VERSION 1.0

Tony Smith University of Liverpool March 20

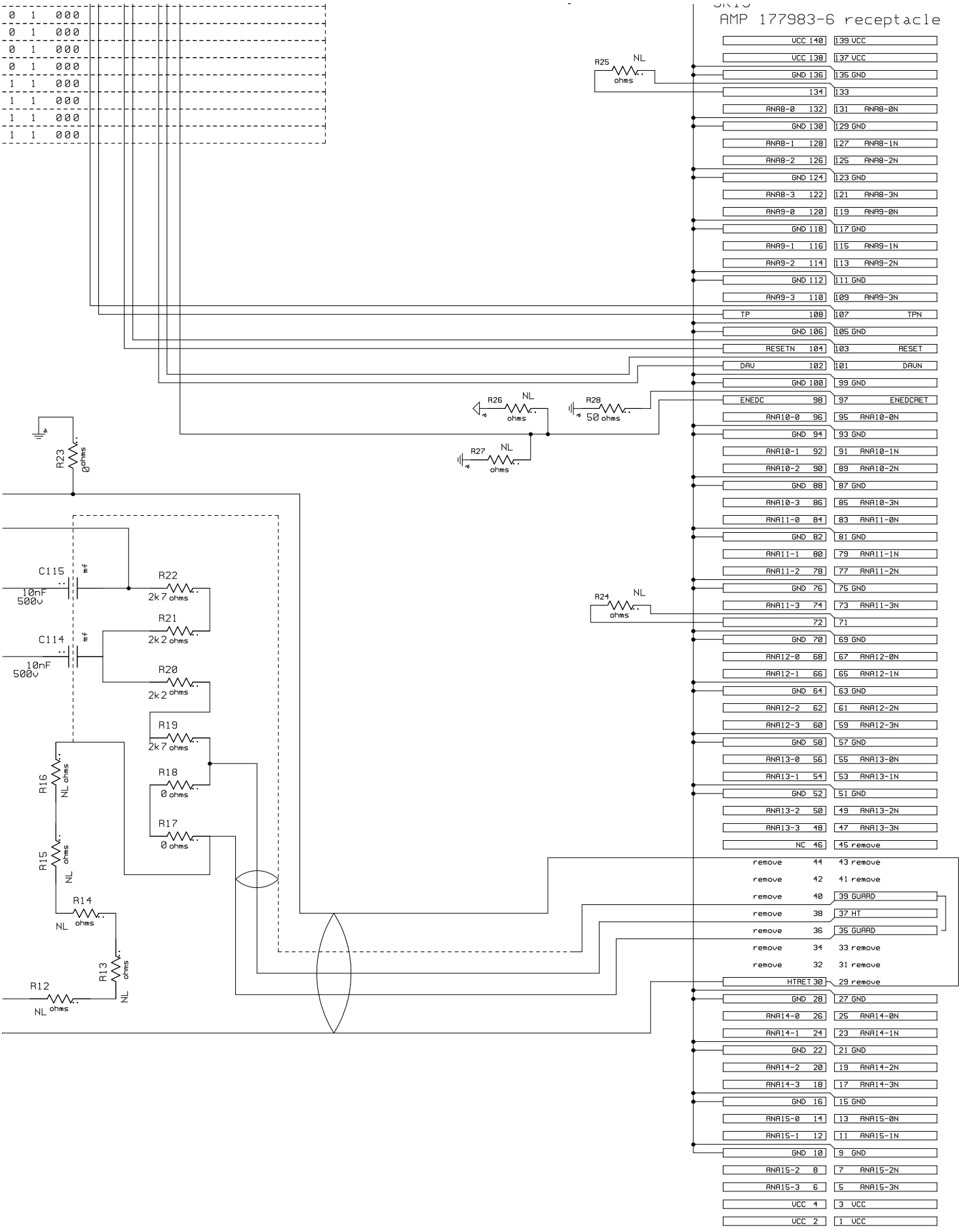


U2	C3	C4	0.1uF	CX3	CX4	C35	C36	C66	1 0
U3	C5	C6	0.1uF	CX5	CX6	C37	C38	C67	0 1
U4	C7	C8	0.1uF	CX7	CX8	C39	C40	C68	1 1
U5	C9	C10	0.1uF	CX9	CX10	C41	C42	C69	0 0
U6	C11	C12	0.1uF	CX11	CX12	C43	C44	C70	1 0
U7	C13	C14	0.1uF	CX13	CX14	C45	C46	C71	0 1
U8	C15	C16	0.1uF	CX15	CX16	C47	C48	C72	1 1

A0 A1


SK11 AMP 177983-6 receptacle
03
VCC 140 139 VCC
VCC 138 137 VCC
GND 136 135 GND
COMPCLK 134 133 COMPCLKN
ANA0-0 132 131 ANA0-0N
GND 130 129 GND
ANA0-1 128 127 ANA0-1N
ANA0-2 126 125 ANA0-2N
GND 124 123 GND
ANA0-3 122 121 ANA0-3N
ANA1-0 120 119 ANA1-0N
GND 118 117 GND
ANA1-1 116 115 ANA1-1N
ANA1-2 114 113 ANA1-2N
GND 112 111 GND
ANA1-3 110 109 ANA1-3N
SDA 108 107 SDARET
GND 106 105 GND
104 103
TRIGGER 102 101 TRIGGERN
GND 100 99 GND
CLOCK 98 97 CLOCKN
ANA2-0 96 95 ANA2-0N
GND 94 93 GND
ANA2-1 92 91 ANA2-1N
ANA2-2 90 89 ANA2-2N
GND 88 87 GND
ANA2-3 86 85 ANA2-3N
ANA3-0 84 83 ANA3-0N
GND 82 81 GND
ANA3-1 80 79 ANA3-1N
ANA3-2 78 77 ANA3-2N
GND 76 75 GND
ANA3-3 74 73 ANA3-3N
SCL 72 71 SCL-RET
GND 70 69 GND
68 67
ANA4-0 66 65 ANA4-0N
GND 64 63 GND
ANA4-1 62 61 ANA4-1N
ANA4-2 60 59 ANA4-2N
GND 58 57 GND
ANA4-3 56 55 ANA4-3N
ANA5-0 54 53 ANA5-0N
GND 52 51 GND
ANA5-1 50 49 ANA5-1N
ANA5-2 48 47 ANA5-2N
GND 46 45 no connection
ANA5-3 44 43 ANA5-3N
NTCA2 42 41 NTCB2
GND 40 39 GND
NTCB 38 37 NTCA
PSEN+ 36 35 PSEN-
GND 34 33 GND
TEMPMID 32 31 TEMPRIGHT
ANA6-0 30 29 ANA6-0N
GND 28 27 GND
ANA6-1 26 25 ANA6-1N
ANA6-2 24 23 ANA6-2N
GND 22 21 GND
ANA6-3 20 19 ANA6-3N
ANA7-0 18 17 ANA7-0N
GND 16 15 GND
ANA7-1 14 13 ANA7-1N
ANA7-2 12 11 ANA7-2N
GND 10 9 GND
ANA7-3 8 7 ANA7-3N
TEMPV+ 6 5 TEMPLEFT
VCC 4 3 VCC
VCC 2 1 VCC
SK13
C33 mf
C35 mf
C65 mf
mf mf
R35 NL ohms
R34 NL ohms
R32 50 ohms
R31 NL ohms
R33 NL ohms
R30 50
R29 NL ohms
R3 100 ohms
R4 100 ohms
SENS1 NL ohms
R5 NL ohms
R6 NL ohms
R1 NL ohms
R2 NL ohms
TS3 LD50 TEMP
TS2 LD50 TEMP
TS1 LD50 TEMP
A2 A3 A4-6
0 0 000
0 0 000
0 0 000
0 0 000
1 0 000
1 0 000
1 0 000
1 0 000

| | | |


AMP 177983-6 receptacle
0 1 000
0 1 000
0 1 000
0 1 000
1 1 000
1 1 000
1 1 000
1 1 000
R25 NL ohms
R26 NL ohms
R27 NL ohms
R28 50 ohms
R23 0ohms
R24 NL ohms
C115 mf 10nF 500v
C114 mf 10nF 500v
R22 2k7 ohms
R21 2k2 ohms
R20 2k2 ohms
R19 2k7 ohms
R18 0 ohms
R17 0 ohms
R16 NL ohms
R15 NL ohms
R14 NL ohms
R13 NL ohms
R12 NL ohms
VCC 140 139 VCC
VCC 138 137 VCC
GND 136 135 GND
134 133
ANA8-0 132 131 ANA8-0N
GND 130 129 GND
ANA8-1 128 127 ANA8-1N
ANA8-2 126 125 ANA8-2N
GND 124 123 GND
ANA8-3 122 121 ANA8-3N
ANA9-0 120 119 ANA9-0N
GND 118 117 GND
ANA9-1 116 115 ANA9-1N
ANA9-2 114 113 ANA9-2N
GND 112 111 GND
ANA9-3 110 109 ANA9-3N
TP 108 107 TPN
GND 106 105 GND
RESETN 104 103 RESET
DAV 102 101 DAVN
GND 100 99 GND
ENEDC 98 97 ENEDCRET
ANA10-0 96 95 ANA10-0N
GND 94 93 GND
ANA10-1 92 91 ANA10-1N
ANA10-2 90 89 ANA10-2N
GND 88 87 GND
ANA10-3 86 85 ANA10-3N
ANA11-0 84 83 ANA11-0N
GND 82 81 GND
ANA11-1 80 79 ANA11-1N
ANA11-2 78 77 ANA11-2N
GND 76 75 GND
ANA11-3 74 73 ANA11-3N
72 71
GND 70 69 GND
ANA12-0 68 67 ANA12-0N
ANA12-1 66 65 ANA12-1N
GND 64 63 GND
ANA12-2 62 61 ANA12-2N
ANA12-3 60 59 ANA12-3N
GND 58 57 GND
ANA13-0 56 55 ANA13-0N
ANA13-1 54 53 ANA13-1N
GND 52 51 GND
ANA13-2 50 49 ANA13-2N
ANA13-3 48 47 ANA13-3N
NC 46 45 remove
remove 44 43 remove
remove 42 41 remove
remove 40 39 GUARD
remove 38 37 HT
remove 36 35 GUARD
remove 34 33 remove
remove 32 31 remove
HTRET 30 29 remove
GND 28 27 GND
ANA14-0 26 25 ANA14-0N
ANA14-1 24 23 ANA14-1N
GND 22 21 GND
ANA14-2 20 19 ANA14-2N
ANA14-3 18 17 ANA14-3N
GND 16 15 GND
ANA15-0 14 13 ANA15-0N
ANA15-1 12 11 ANA15-1N
GND 10 9 GND
ANA15-2 8 7 ANA15-2N
ANA15-3 6 5 ANA15-3N
VCC 4 3 VCC
VCC 2 1 VCC