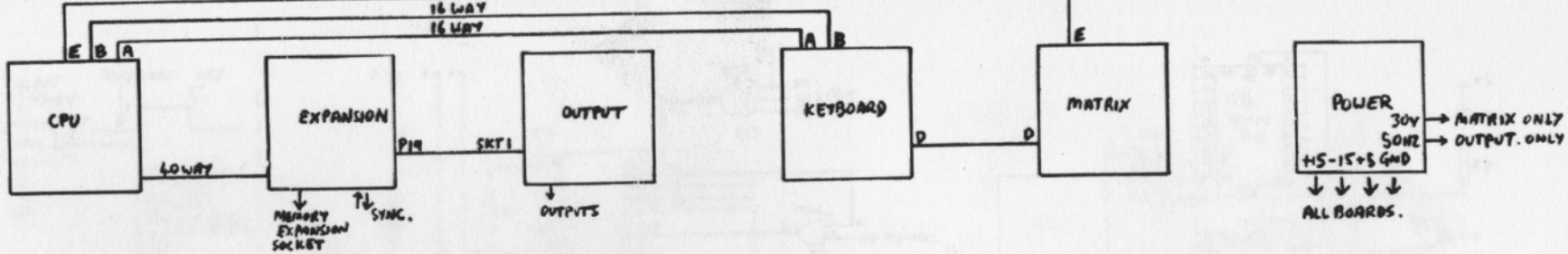
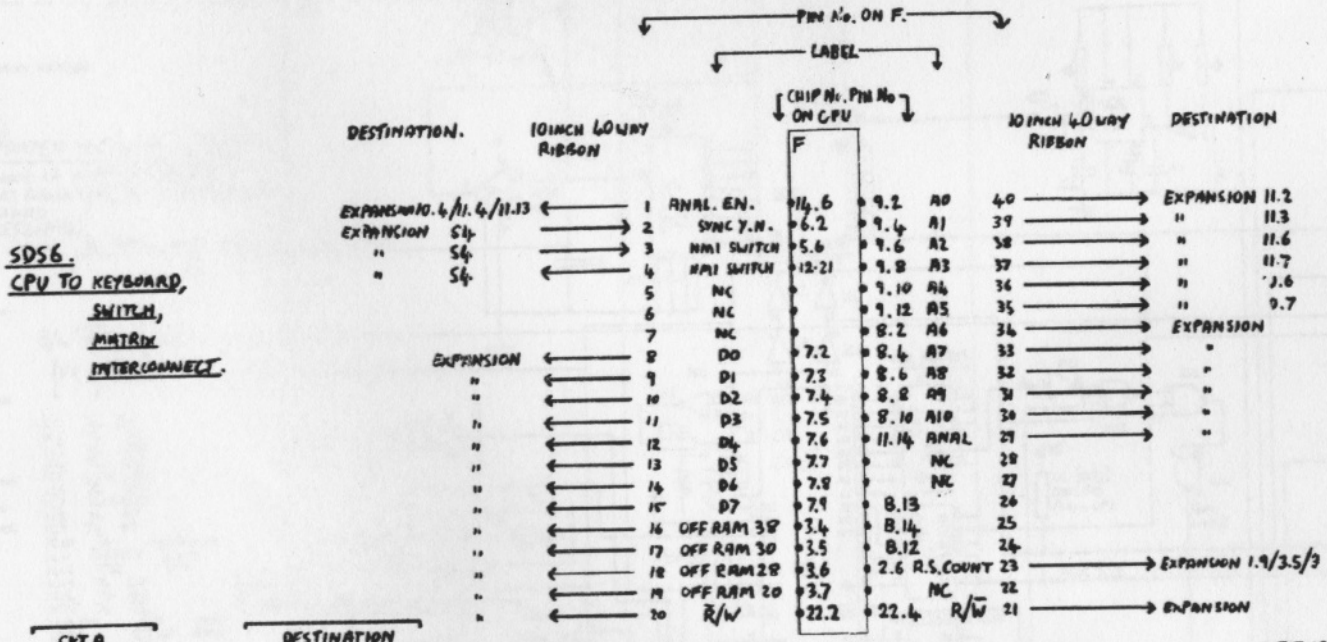


SDS6. CPU TO KEYBOARD, SWITCH, MATRIX INTERCONNECT.



SKT A. CPU. BOARD

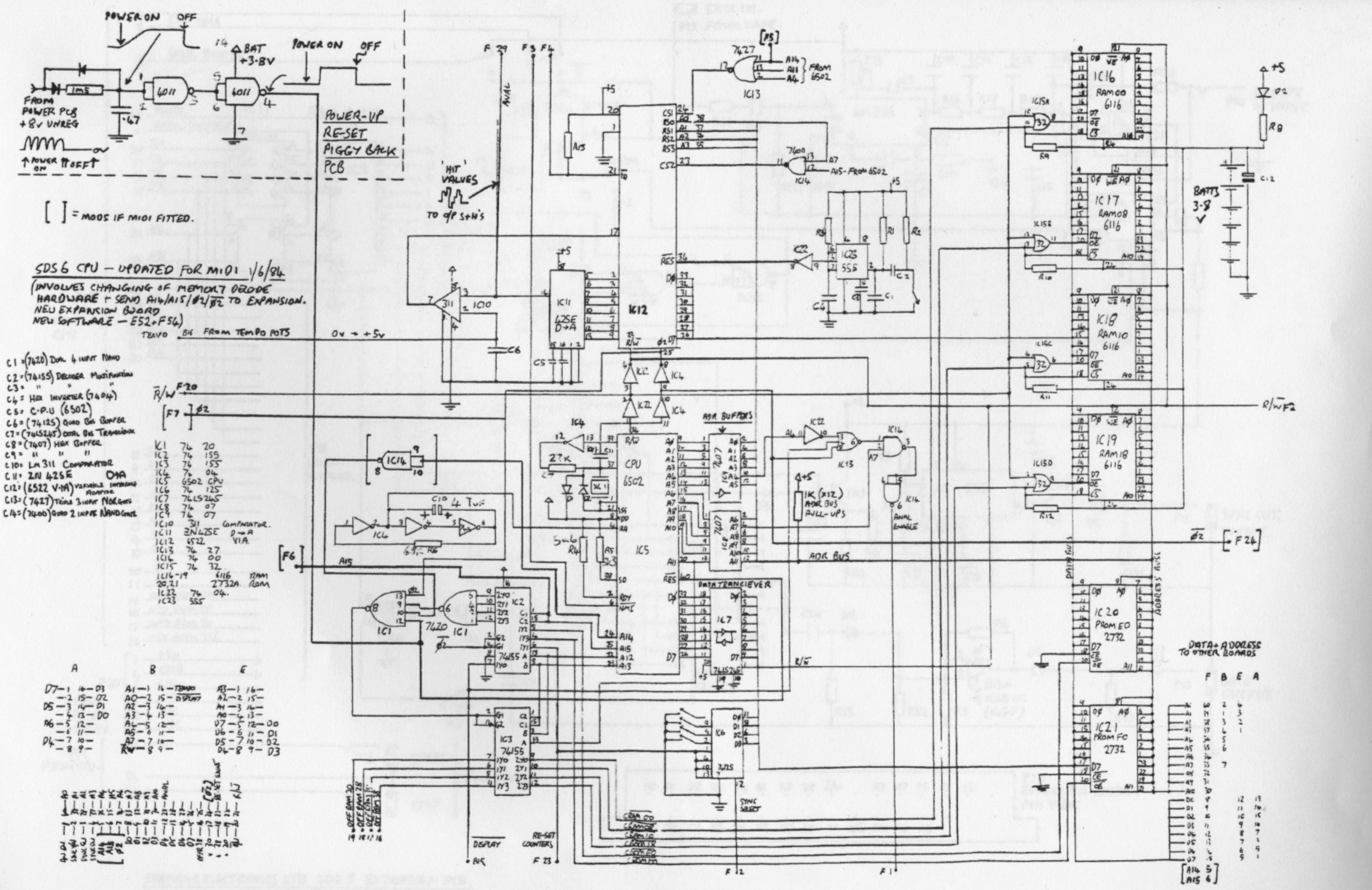
			16 INCH 16 WAY RIBBON	DESTINATION
1	D7	→	8.7/13.11	KEYBOARD
2				
3	D5	→	8.3/13.6	"
4				
5	D6	→	8.6/13.8	"
6				
7	D4	→	8.2/13.3	"
8				
9				
10				
11				
12				
13	D0	→	9.2/14.3	"
14	D1	→	9.3/14.6	"
15	D2	→	9.4/14.8	"
16	D3	→	9.7/14.11	"

SKT B. CPU BOARD

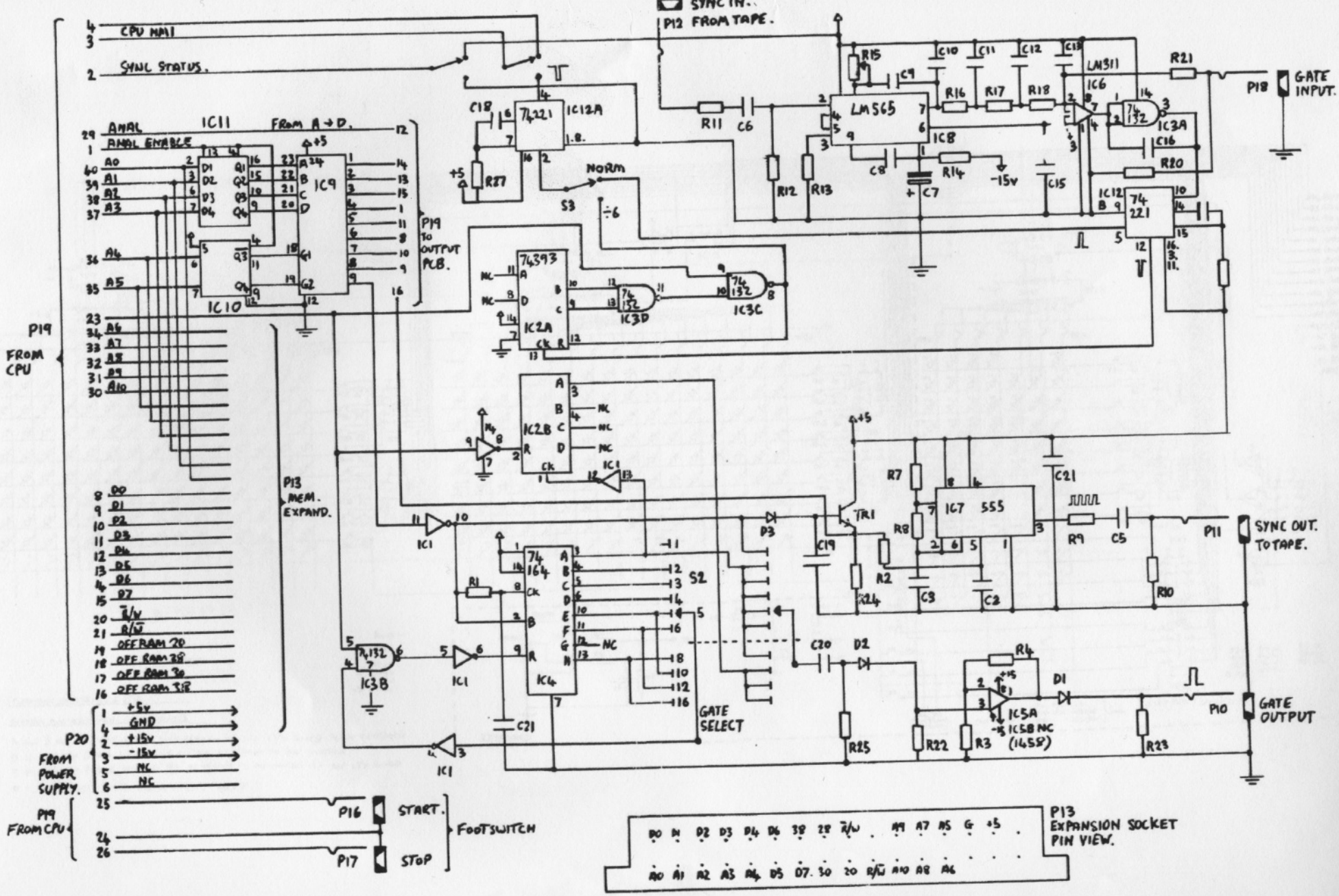
		16 INCH 16 WAY RIBBON	DESTINATION KEYBOARD PCB
1	A1	→	7.3
2	A0	→	7.2
3	A2	→	7.6
4	A3	→	7.7
5	A4	→	16.13
6	A5	→	16.3
7	A7	→	16.14
8	Φ2	→	15.9/15.8
9	NC		
10	NC		
11	NC		
12	FOOT COM	←	SWITCH
13	FOOT STOP	←	SWITCH
14	FOOT START	←	SWITCH
15	DISPLAY	→	16.15
16	TEMPO	←	R17/8.19

SKT E. CPU.

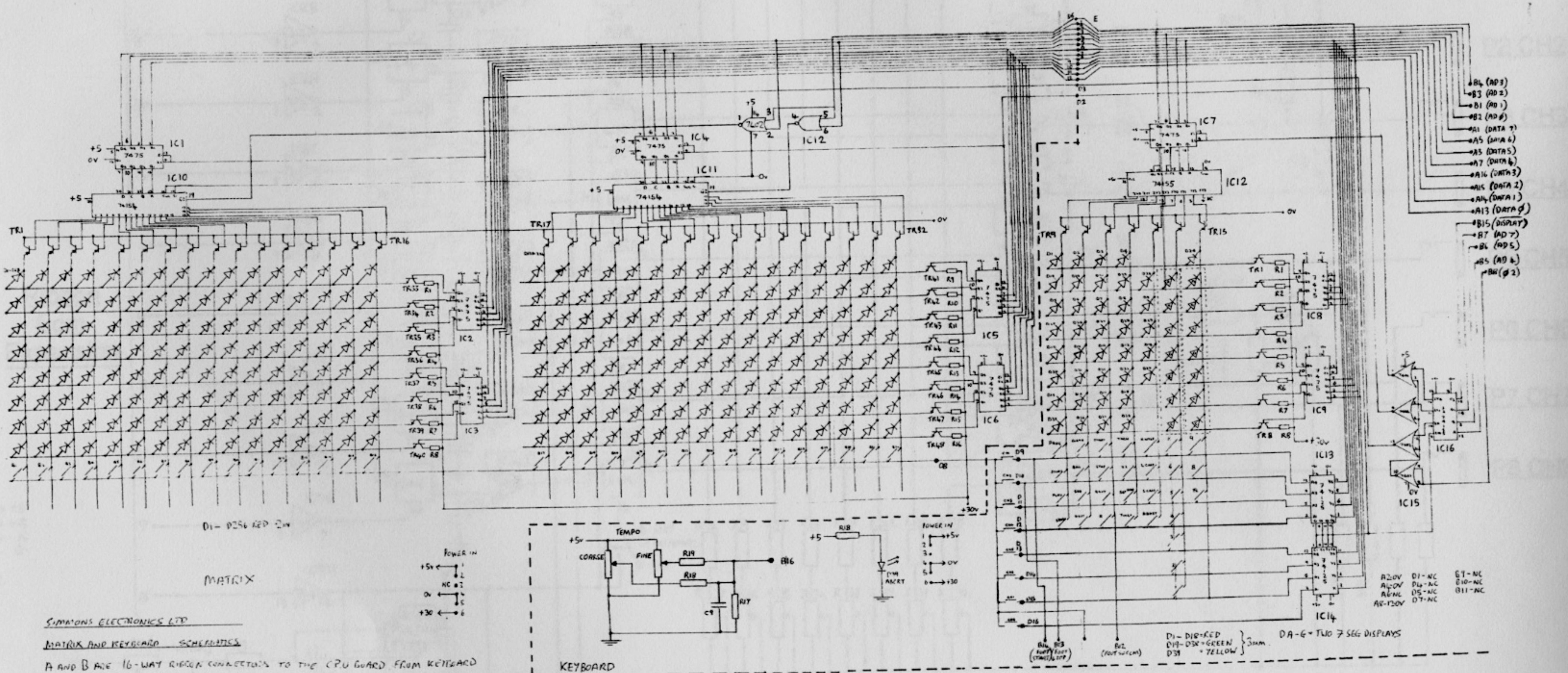
		16 INCH 16 WAY RIBBON	DESTINATION
1	A3	→	1.7/4.7/12.2 MATRIX
2	A2	→	1.6/4.6/12.6 "
3	A1	→	1.5/4.3 "
4	A0	→	1.4/4.2 "
5	D7	→	5.7/2.7 "
6	D6	→	5.6/2.6 "
7	D5	→	5.3/2.3 "
8	D4	→	5.2/2.2 "
9	D3	→	6.7/3.7 "
10	D2	→	6.6/3.6 "
11	D1	→	6.5/3.5 "
12	D0	→	6.4/3.2 "
13	NC		
14	NC		
15	NC		
16	NC		



SDS6 CPU – UPDATED FOR MIDI 1/6/84
(INVOLVES CHANGING OF MEMORY DECODE HARDWARE + SEND A14/A15/Ø2/Ø2 TO EXPANSION.
NEW EXPANSION BOARD
NEW SOFTWARE – E52+F56)
[ ] = MODS IF MIDI FITTED.
POWER-UP RE-SET PIGGY BACK PCB
FROM POWER PCB +8v UNREG
POWER ON OFF
BAT +3.8V
C1 = (7420) DUAL 4 INPUT NAND
C2 = (74155) DECODER MULTIFUNCTION
C4 = HEX INVERTER (7404)
C5 = C.P.U (6502)
C6 = (74125) QUAD BUS BUFFER
C7 = (74LS245) OCTAL BUS TRANSCEIVER
C8 = (7407) HEX BUFFER
C10 = LM311 COMPARATOR
C11 = ZN 425E D/A
C12 = (6522 VIA) VERSATILE INTERFACE ADAPTOR
C13 = (7427) TRIPLE 3 INPUT NOR GATE
C14 = (7400) QUAD 2 INPUT NAND GATE
HIT VALVES TO O/P S+H'S
TEMPO BUS FROM TEMPO POTS
ADR BUFFERS
ADR BUS
DATA TRANCIEVER
DATA BUS
ADDRESS BUSS
IC16 RAM00 6116
IC17 RAM08 6116
IC18 RAM10 6116
IC19 RAM18 6116
IC20 PROM E0 2732
IC21 PROM F0 2732
BATTS 3.8V
DATA + ADDRESS TO OTHER BOARDS
SYNC SELECT
DISPLAY
RE-SET COUNTERS
R/W F2
Ø2 F24
F6
F7
F20
ANAL ENABLE
1K (x12) ADR BUS PULL-UPS



SIMMONS ELECTRONICS LTD SDS 6 EXPANSION PCB.



SIMMONS ELECTRONICS LTD

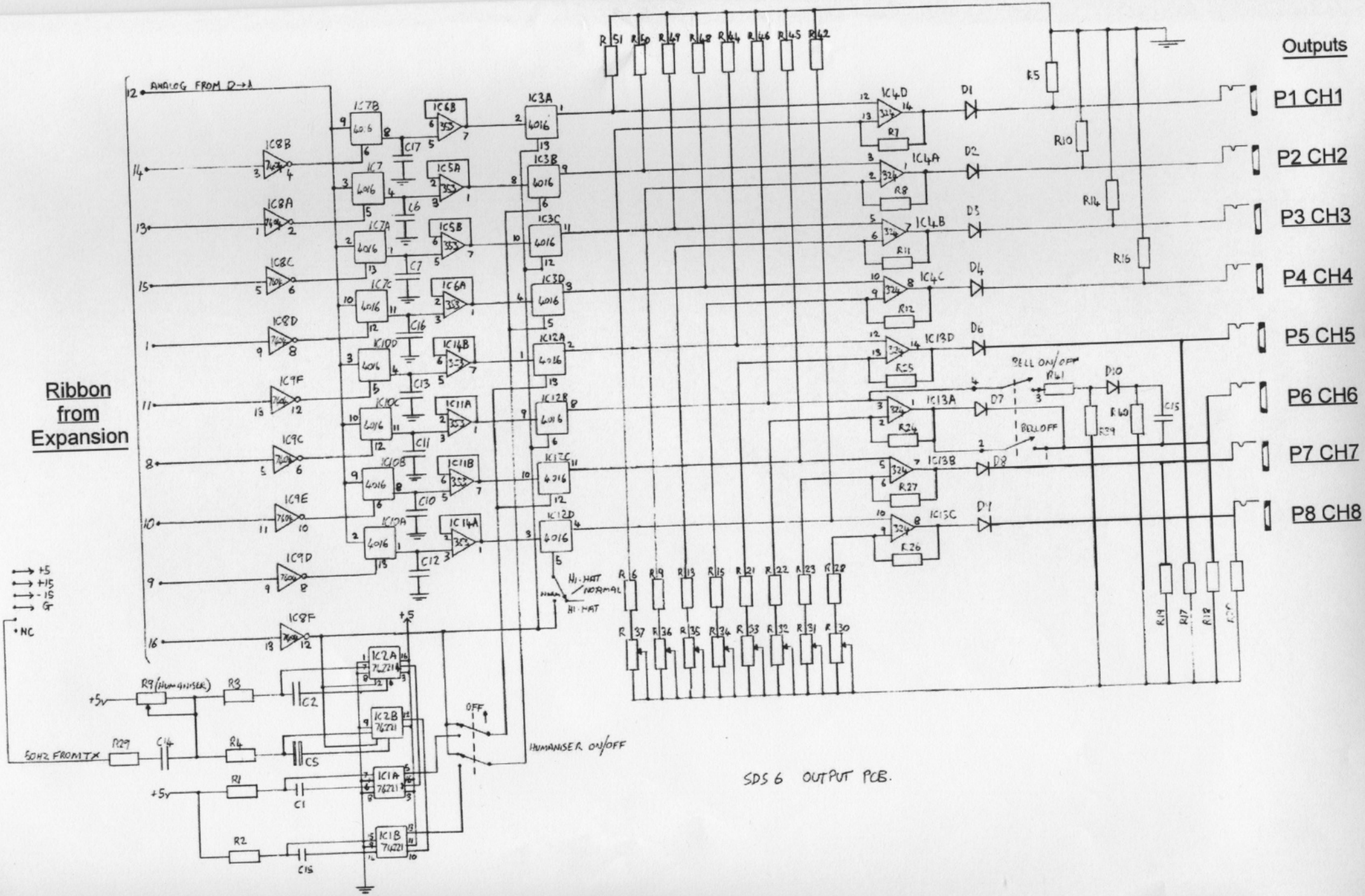
MATRIX AND KEYBOARD SCHEMATICS

A AND B ARE 16-WAY RIBBON CONNECTORS TO THE C.P.U BOARD FROM KEYBOARD

D IS A 16 WAY RIBBON CABLE LINKING THE KEYBOARD TO THE MATRIX.

E IS A 16 WAY CABLE LINKING THE KEYBOARD TO THE MATRIX VIA THE CPU BOARD

● = CONNECTIONS TO THE RIBBON CABLES A,B,D,E



SDS 6 OUTPUT PCB.