

SDS6.
 CPU TO KEYBOARD,
 SWITCH,
 MATRIX
 INTERCONNECT.

PIN No. ON F.

LABEL

CHIP No. PIN No. ON CPU

DESTINATION.	10 INCH 40WAY RIBBON	F	10 INCH 40WAY RIBBON	DESTINATION
EXPANSION 4/11.4/11.13	← 1 ANAL. EN.	16.6	→ 9.2 A0	EXPANSION 11.2
EXPANSION 54	← 2 SYNC Y.N.	6.2	→ 9.4 A1	" 11.3
" 54	← 3 NMI SWITCH	5.6	→ 9.6 A2	" 11.6
" 54	← 4 NMI SWITCH	12.21	→ 9.8 A3	" 11.7
	5 NC	9.10	→ 9.10 A4	" 11.6
	6 NC	9.12	→ 9.12 A5	" 9.7
	7 NC	8.2	→ 9.12 A6	EXPANSION
EXPANSION	← 8 D0	7.2	→ 8.4 A7	"
"	← 9 D1	7.3	→ 8.6 A8	"
"	← 10 D2	7.4	→ 8.8 A9	"
"	← 11 D3	7.5	→ 8.10 A10	"
"	← 12 D4	7.6	→ 11.14 ANAL	"
"	← 13 D5	7.7	→ NC	"
"	← 14 D6	7.8	→ NC	"
"	← 15 D7	7.9	→ 8.13	"
"	← 16 OFF RAM 38	3.4	→ 8.14	"
"	← 17 OFF RAM 30	3.5	→ 8.12	"
"	← 18 OFF RAM 28	3.6	→ 2.6 R.S.COUNT	EXPANSION 1.9/3.5/3
"	← 19 OFF RAM 20	3.7	→ NC	"
"	← 20 R/W	22.2	→ 22.4 R/W	EXPANSION

SKT A. CPU BOARD

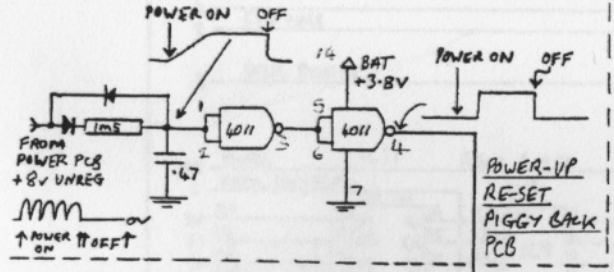
SKT A. CPU BOARD	16 INCH 16WAY RIBBON	DESTINATION
1 • D7	→ 8.7/13.11	KEYBOARD
2 •	→	"
3 • D5	→ 8.3/13.6	"
4 •	→	"
5 • D6	→ 8.6/13.8	"
6 •	→	"
7 • D4	→ 8.2/13.3	"
8 •	→	"
9 •	→	"
10 •	→	"
11 •	→	"
12 •	→	"
13 • D0	→ 9.2/14.3	"
14 • D1	→ 9.3/14.6	"
15 • D2	→ 9.4/14.8	"
16 • D3	→ 9.7/14.11	"

SKT B. CPU BOARD

SKT B. CPU BOARD	16 INCH 16WAY RIBBON	DESTINATION
1 • A1	→ 7.3	KEYBOARD PCB
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/R19	"

SKT E. CPU.

SKT E. CPU.	16 INCH 16WAY RIBBON	DESTINATION
1 • A3	→ 1.7/4.7/12.2	MATRIX
2 • A2	→ 1.6/4.6/12.6	"
3 • A1	→ 1.3/4.3	"
4 • A0	→ 1.2/4.2	"
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	→ 6.2/3.2	"
13 • NC	→	"
14 • NC	→	"
15 • NC	→	"
16 • NC	→	"



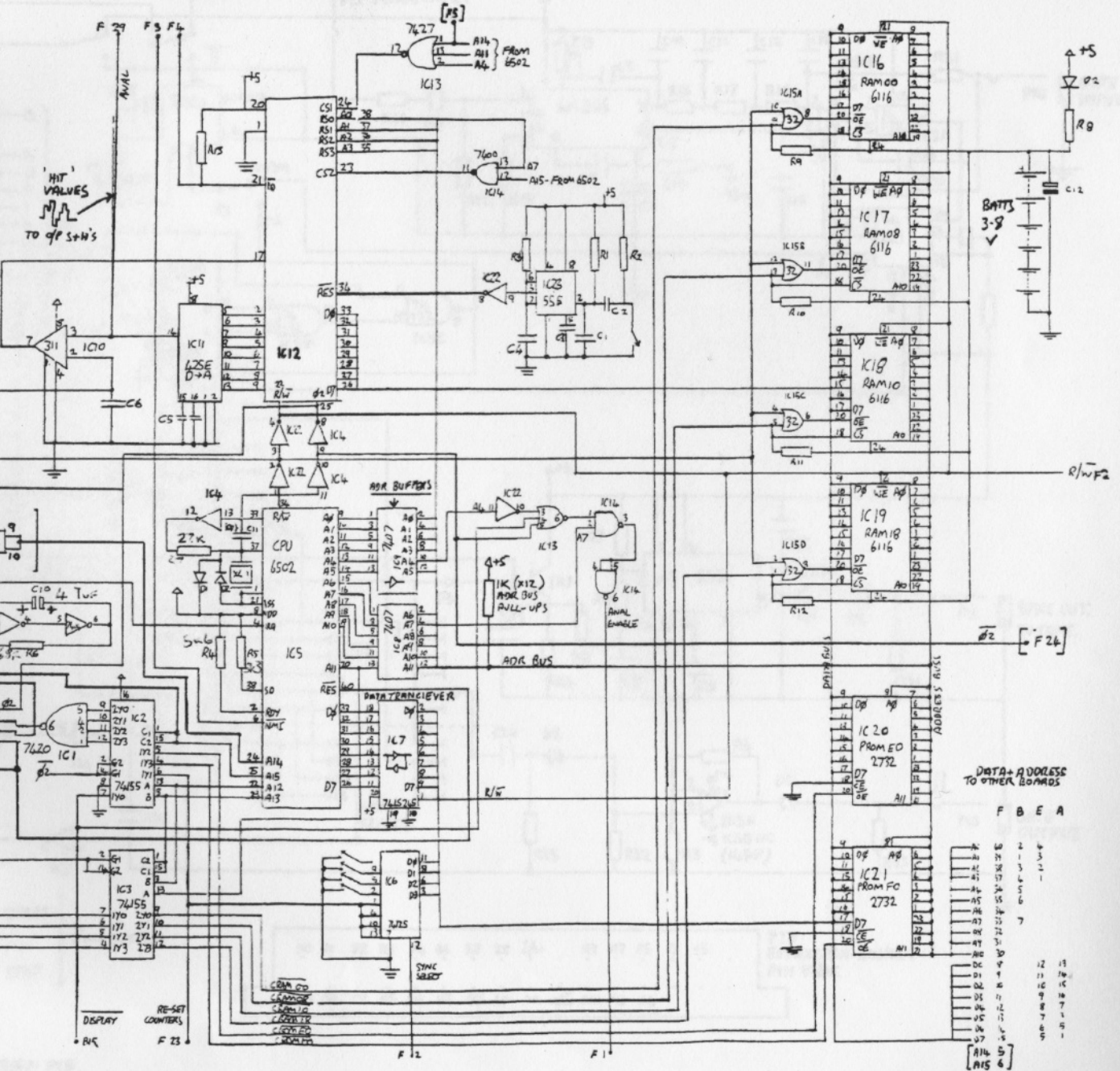
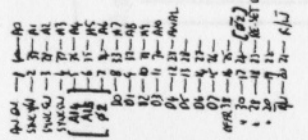
[] = MOOS IF M101 FITTED.

SDS 6 CPU - UPDATED FOR M101 1/6/84
 (INVOLVES CHANGING OF MEMORY DECODE
 HARDWARE + SEND A14/A15/#12L TO EXPANSION.
 NEW EXPANSION BOARD
 NEW SOFTWARE - E52+F54)

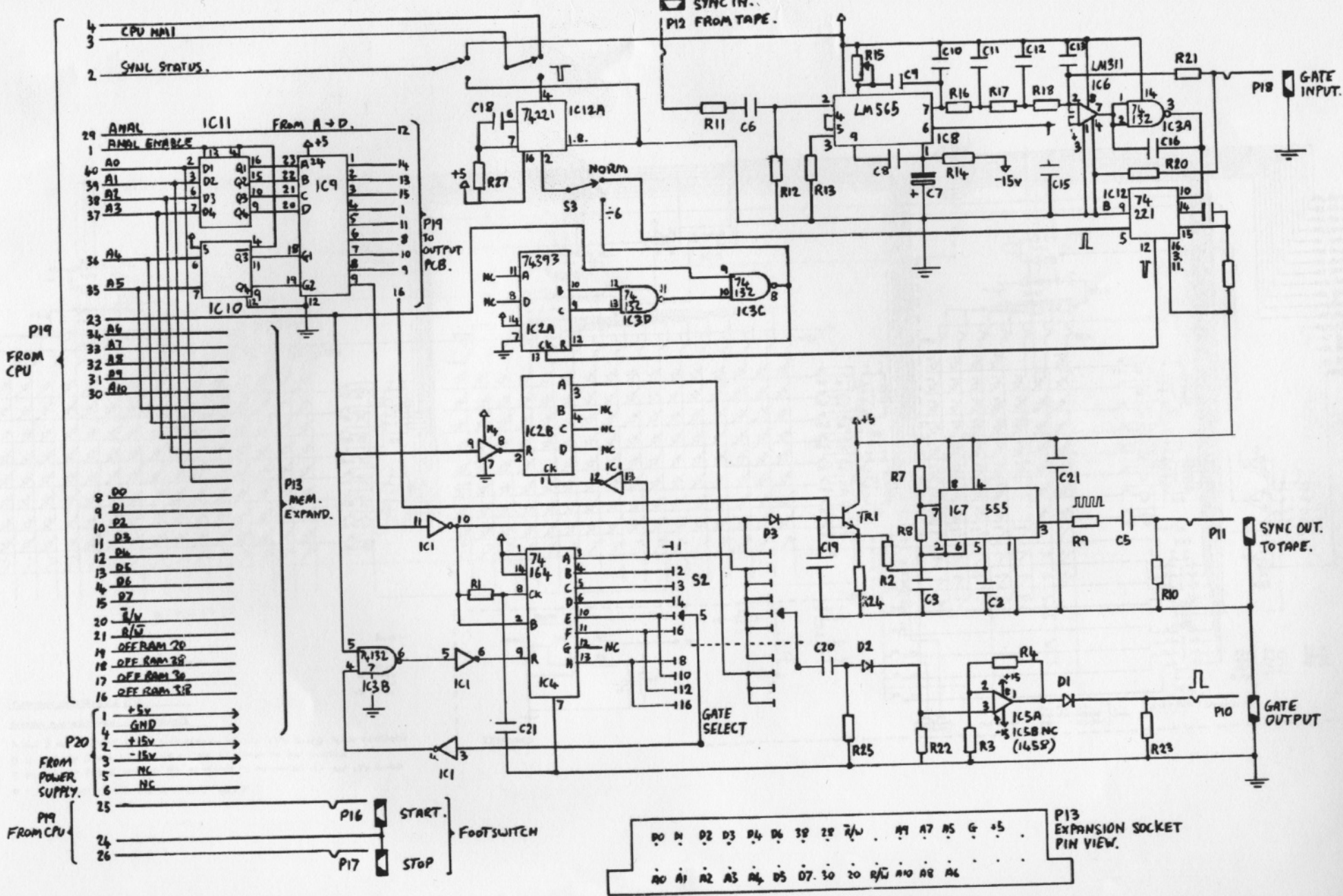
- C1 = (74120) Dual 4 input NAND
- C2 = (74155) Decoder Multiplexer
- C3 = " " " " " "
- C4 = Hex Inverter (7404)
- C5 = C.P.U. (6502)
- C6 = (74125) Quad Bus Buffer
- C7 = (74125) Quad Bus Buffer
- C8 = (7407) Hex Buffer
- C9 = " " " " " "
- C10 = " " " " " "
- C11 = LM 311 Comparator
- C12 = (6522 V-M) ADDRESS DECODE
- C13 = (7427) Tri-state Buffer
- C14 = (7400) Quad 2 input NAND gate

K1	74	20
K2	74	155
K3	74	155
K4	74	04
K5	6502	CPU
K6	74	125
K7	74LS245	
K8	74	07
K9	74	07
K10	311	COMPARATOR
K11	ENL52	D-A VIA
K12	6522	
K13	74	27
K14	74	00
K15	74	32
K16-19	6116	RAM
K20,21	2732A	ROM
K22	74	04
K23	555	

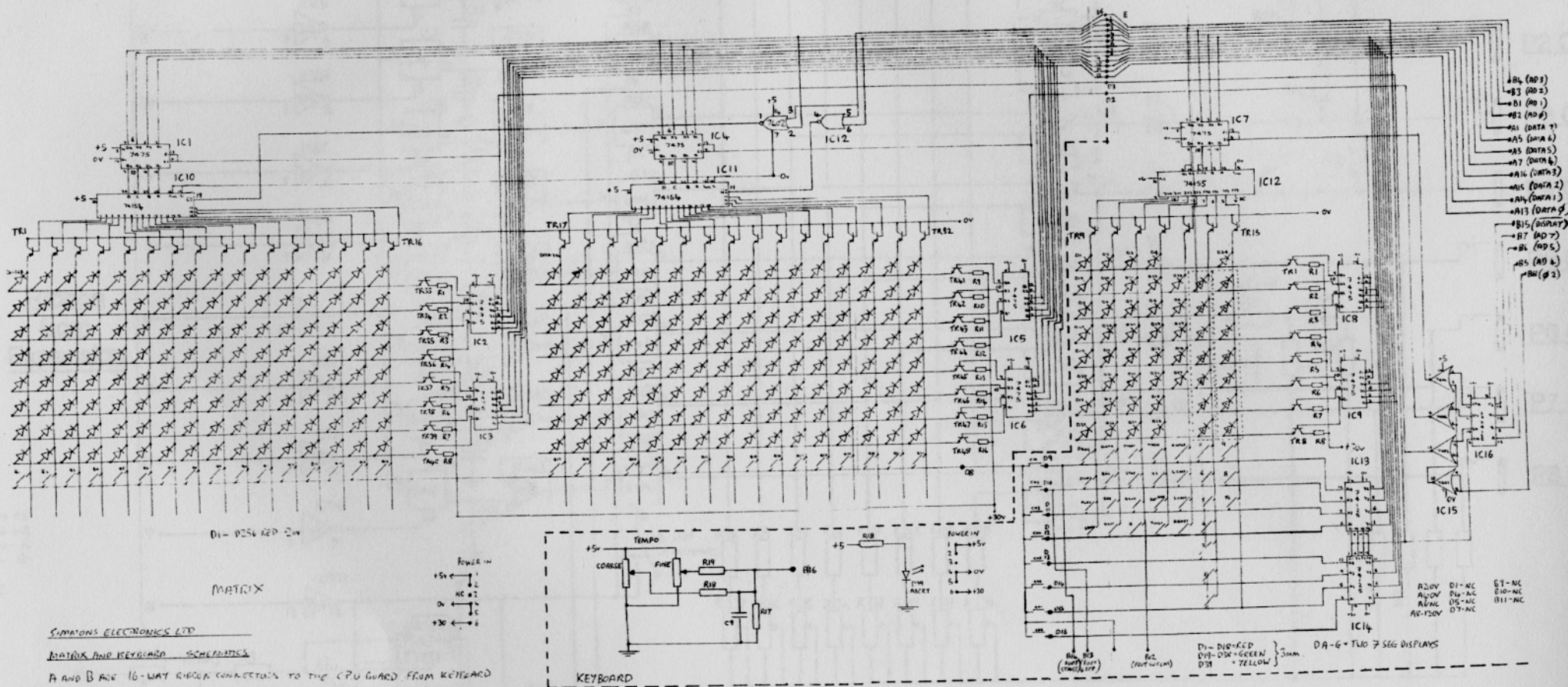
A	B	E
D7-1 16-D3	A1-1 14-TEMP	A3-1 16-
-2 15-D2	A0-2 15-DIRTY	A2-2 15-
D5-3 14-D1	A2-3 16-	A1-3 16-
-4 13-D0	A3-4 13-	A0-4 13-D0
R6-5 12-	A5-5 11-	U6-5 11-D1
-6 11-	A5-6 11-	U6-6 11-D2
D4-7 10-	A7-7 14-	D5-7 10-D3
-8 9-	R4-8 9-	D4-8 9-D3



[A14 B] [A15 6]



SHAMONS ELECTRONICS LTD SDS 6 EXPANSION PCB.



D1 - 0256 RED 2W

MATRIX

SIMONS ELECTRONICS LTD

MATRIX AND KEYBOARD SCHEMATICS

A AND B ARE 16-WAY RIBBON CONNECTIONS TO THE CPU 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 CASSET AS/D/E

KEYBOARD

A2-0V D1-NC E3-NC
 A3-0V D2-NC E4-NC
 A4-NC D3-NC E5-NC
 A5-NC D4-NC E6-NC
 A6-120V D5-NC E7-NC

DA-6 - TWO 7 SEG DISPLAYS

