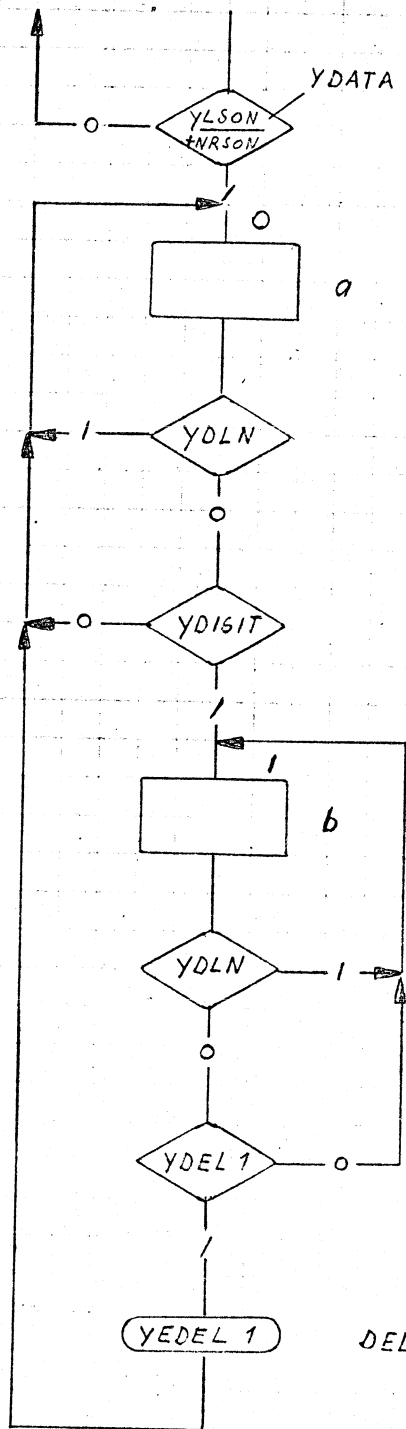


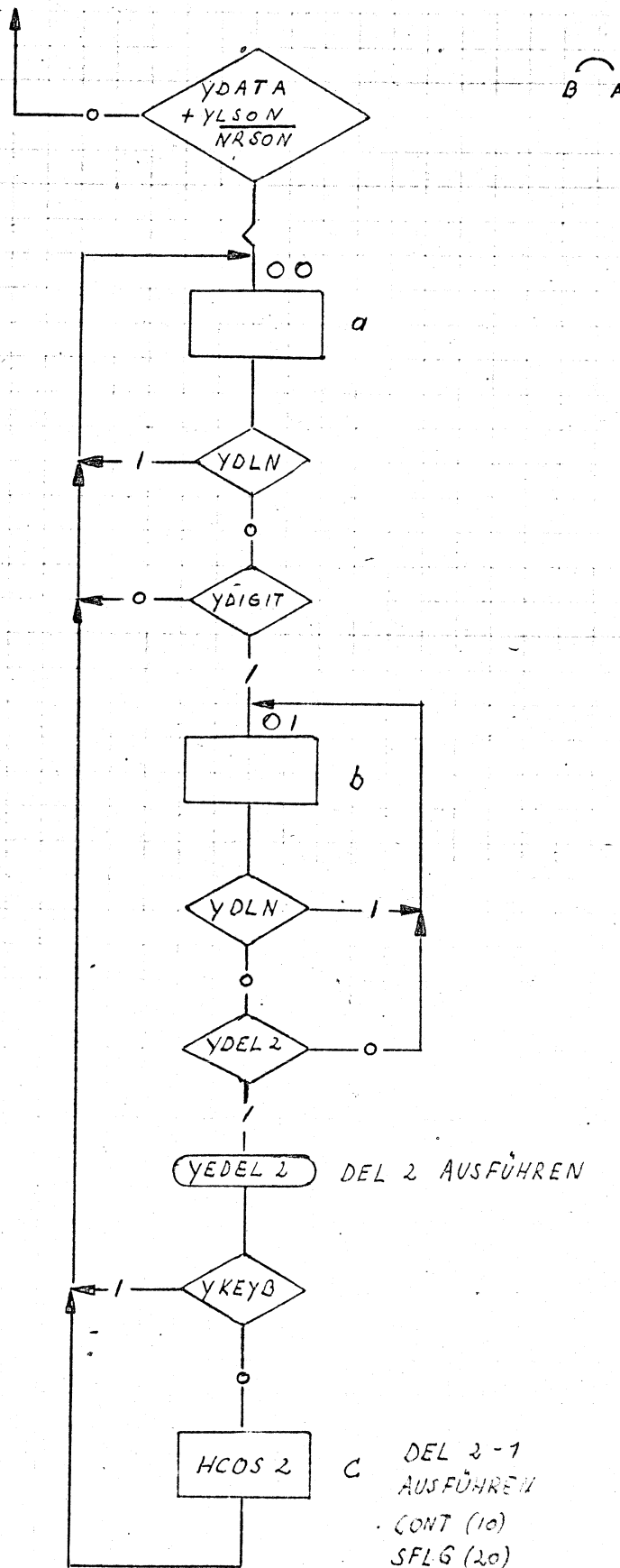
DEL 1 ASM



DEL 1 AUSFÜHREN

CONT (10)
CONT (20)

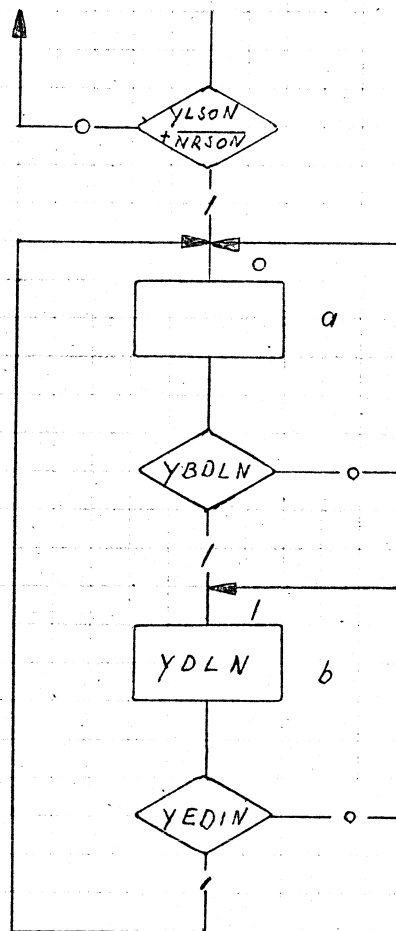
DEL 2 ASM



SFLG (10)
CONT (20/30)

	A	
	b	a
B	c	-

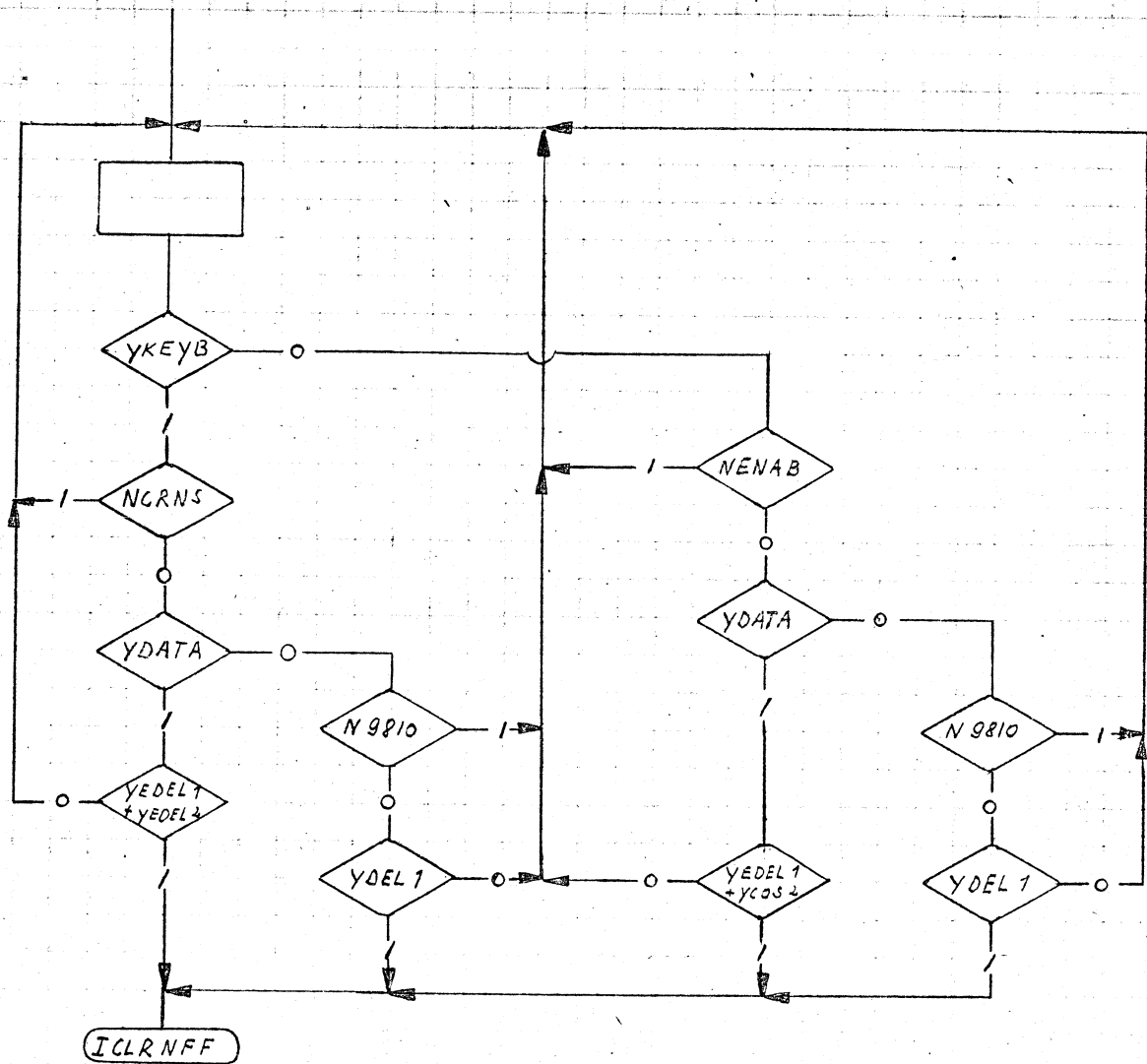
DELITION ASM



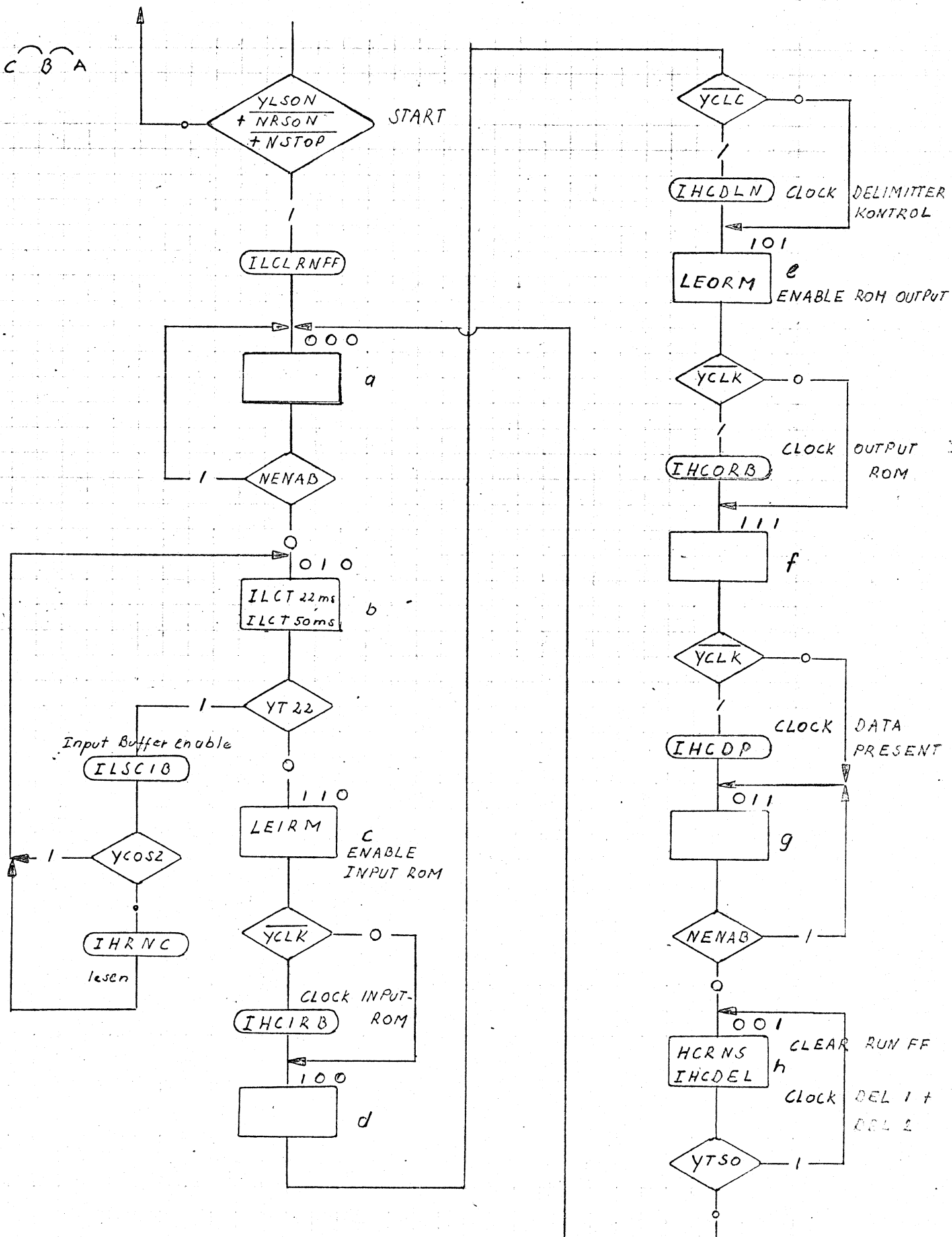
BEGINN DEL ?

ENDE DEL ?

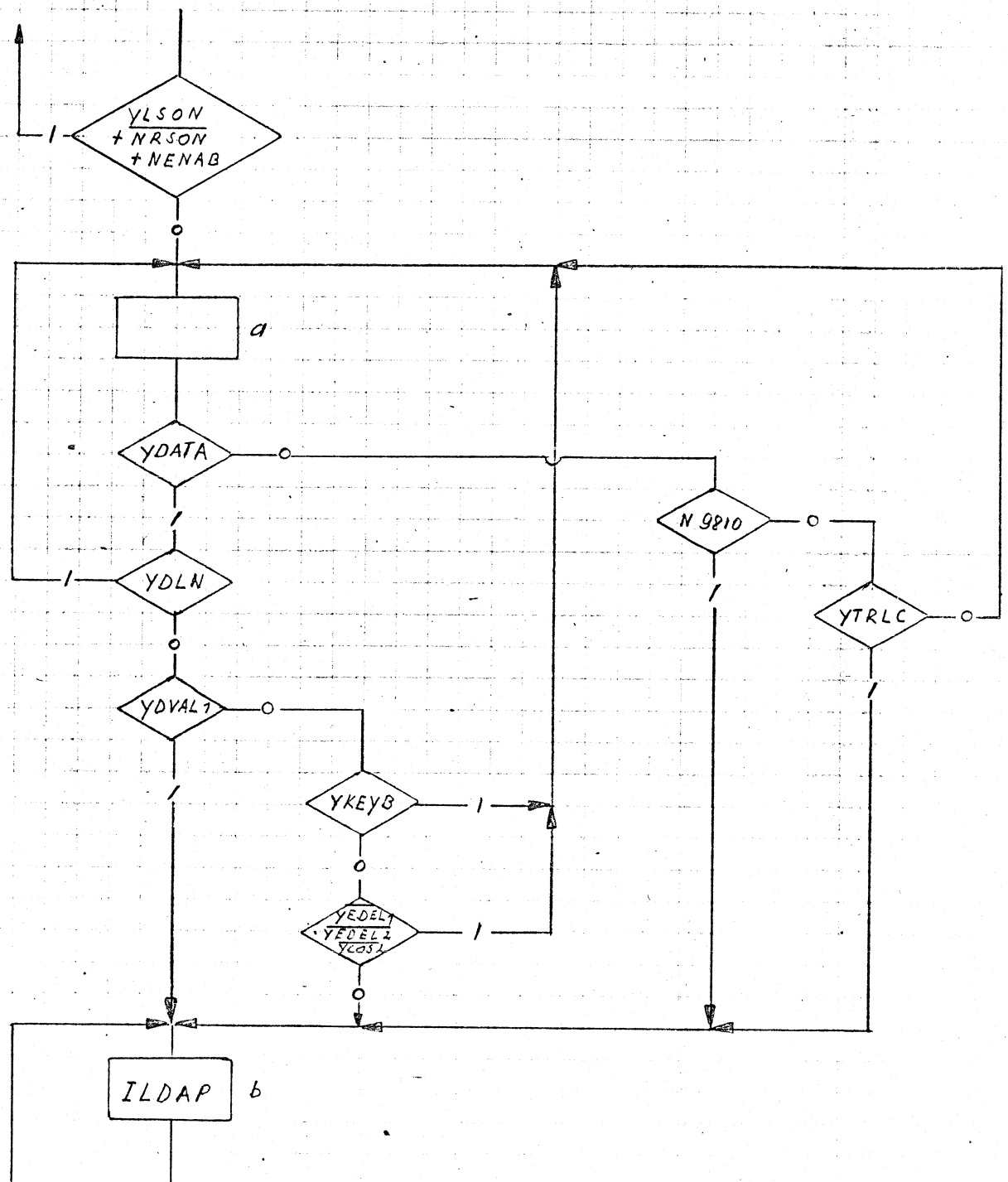
CLEAR RUN FF ASM #2



MAIN CONTROL ASM



DATA PRESENT ASM



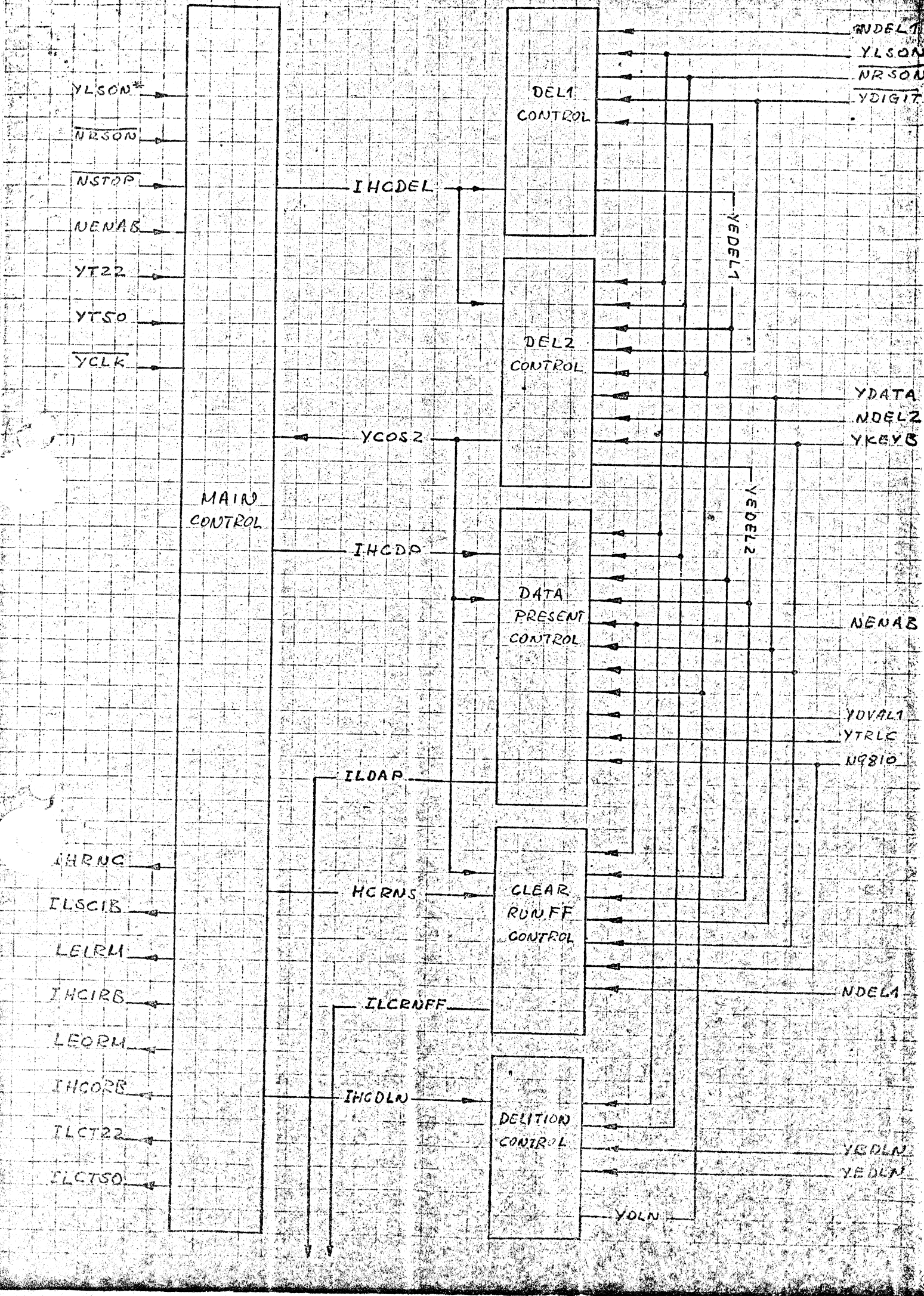
$$YDVAL1 = \overline{NDVAL0} + \overline{NENTE}$$

9863A TAPE READER SPECIAL

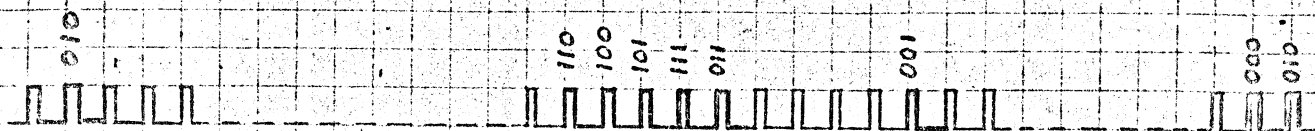
- SPARE HOLES
- ENT. EXP.
- END OF ENTRY, CONT.
- END OF ENTRY, SET FLAG/CONT.
- BEGIN DELETION
- END DELETION
- SPACE CR/LF () 1 2 3 F 1 2 OTHER 3
- BIT POSITION
- 1 1 2 2 3 3 4 4 5 5 6 6 7 7

7. Mode Switch of tape reader to DATA

			TITLE	PRODUCTION TEST PROCEDURE
			BY	H. Halverscheid
			DATE	
			APPROVED	
PC NO	APPR.	DATE	SHEET NO	OF
			SUPERSEDED	DWG. NO



IMPULSDIAGRAMM



YT22

YTSO

LEIRM

IHCIRB

LHCDLN

LEORM

IHCORB

IHCDP

ELDAP

SSI

SIH

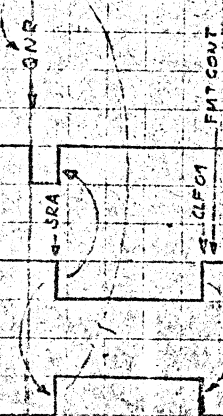
MEVAR

KORNS

JACBEL

MEVAR?

KORNS?



INPUTS

	<u>YLSON</u>	LINE SWITCH ON
	<u>NRSON</u>	RUN SWITCH ON
	<u>NSTOP</u>	CALC. STOP COMMAND
14	<u>NENAB</u>	CALC. ENABLE COMMAND
34	<u>YCLK</u>	MAIN CLOCK
	<u>NDEL1</u>	DELIMITER 1
	<u>NDEL2</u>	" 2
	<u>YDIGIT</u>	0, 1, 2, ... 9
	<u>YDATA</u>	DATA MODE
	<u>YKEY8</u>	KEYBOARD
	<u>N9810</u>	9810 CALC
	<u>YDAVL1</u>	DIGIT + MINUS + DP + ENT. EXP
	<u>YTRLC</u>	TRANSLATABLE CHARACTER
	<u>YBDLN</u>	BEGIN DELITION
	<u>YEDLN</u>	END DELITION

INTERNAL SIGNALS

	<u>YEDEL1</u>	EXECUTE DEL1
	<u>YEDEL2</u>	" DEL2
	<u>YCOS2</u>	CONTINUE SIGNAL AFTER DEL2
	<u>YTR2</u>	OUTPUT MONO 22 MS
	<u>YTSO</u>	" " 50 MS
	<u>ILCT22</u>	CLOCK FOR MONO 22 MS
	<u>ILCTSO</u>	" " " 50 MS
	<u>IHCDEL</u>	" " DELITION CONTROL
	<u>IHCOP</u>	" " DATA PRESENT CONTROL
	<u>IHCDEL</u>	" " DEL1 / DEL2 CONTROL
	<u>HCRNS</u>	CLEAR RUN FF STROBE
	<u>YDLN</u>	DELITION

OUTPUTS

	<u>ILDAP</u>	DATA PRESENT
	<u>ILCRNF</u>	CLEAR RUN FF
	<u>ILSCIB</u>	STORE CH IN INPUT BUFFER
	<u>IHRNC</u>	READ NEW CH
33	<u>LEIRM</u>	ENABLE INPUT ROM
	<u>IHCIRB</u>	CLOCK INPUT ROM BUFFER
	<u>LEORM</u>	ENABLE OUTPUT ROM
	<u>IHCORB</u>	CLOCK OUTPUT ROM BUFFER

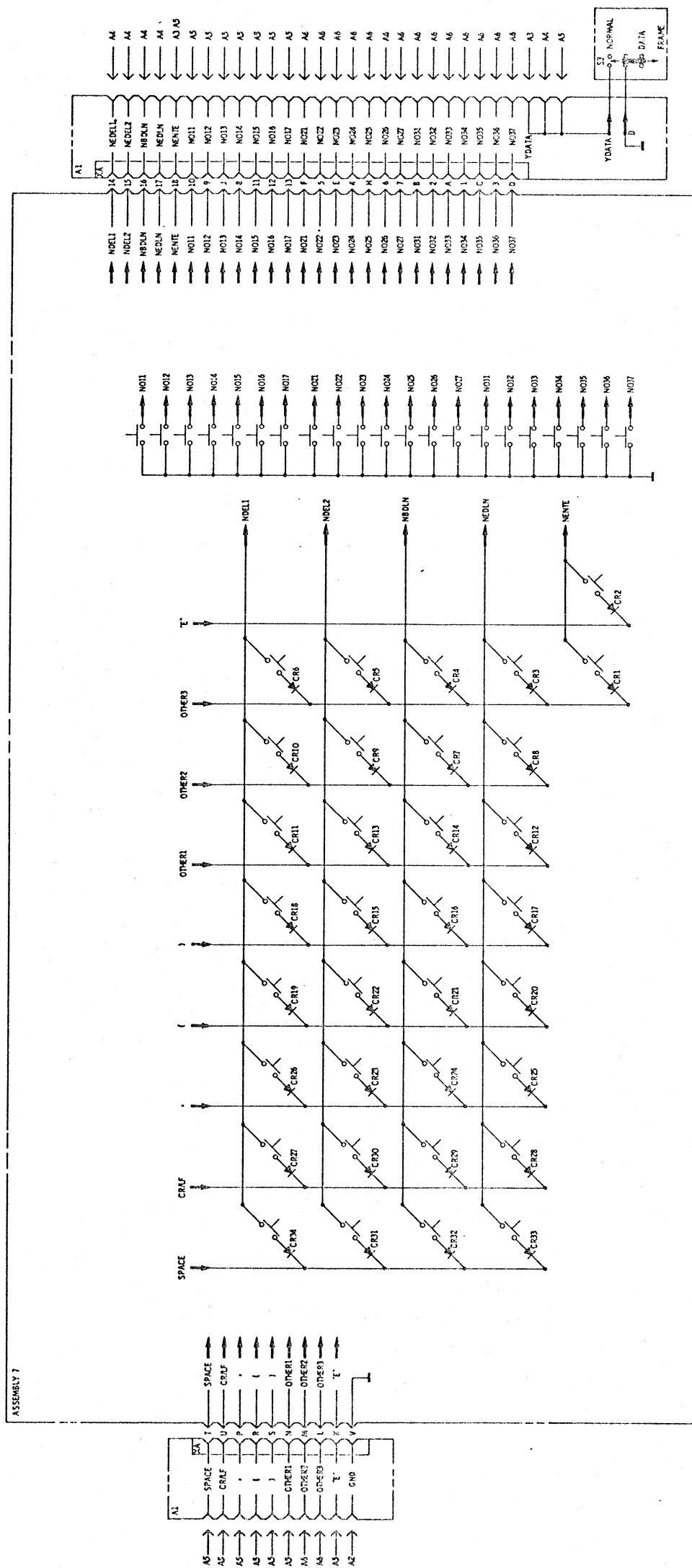


FIGURE X-14. CIRCUIT DIAGRAM - PROGRAM BOARD.

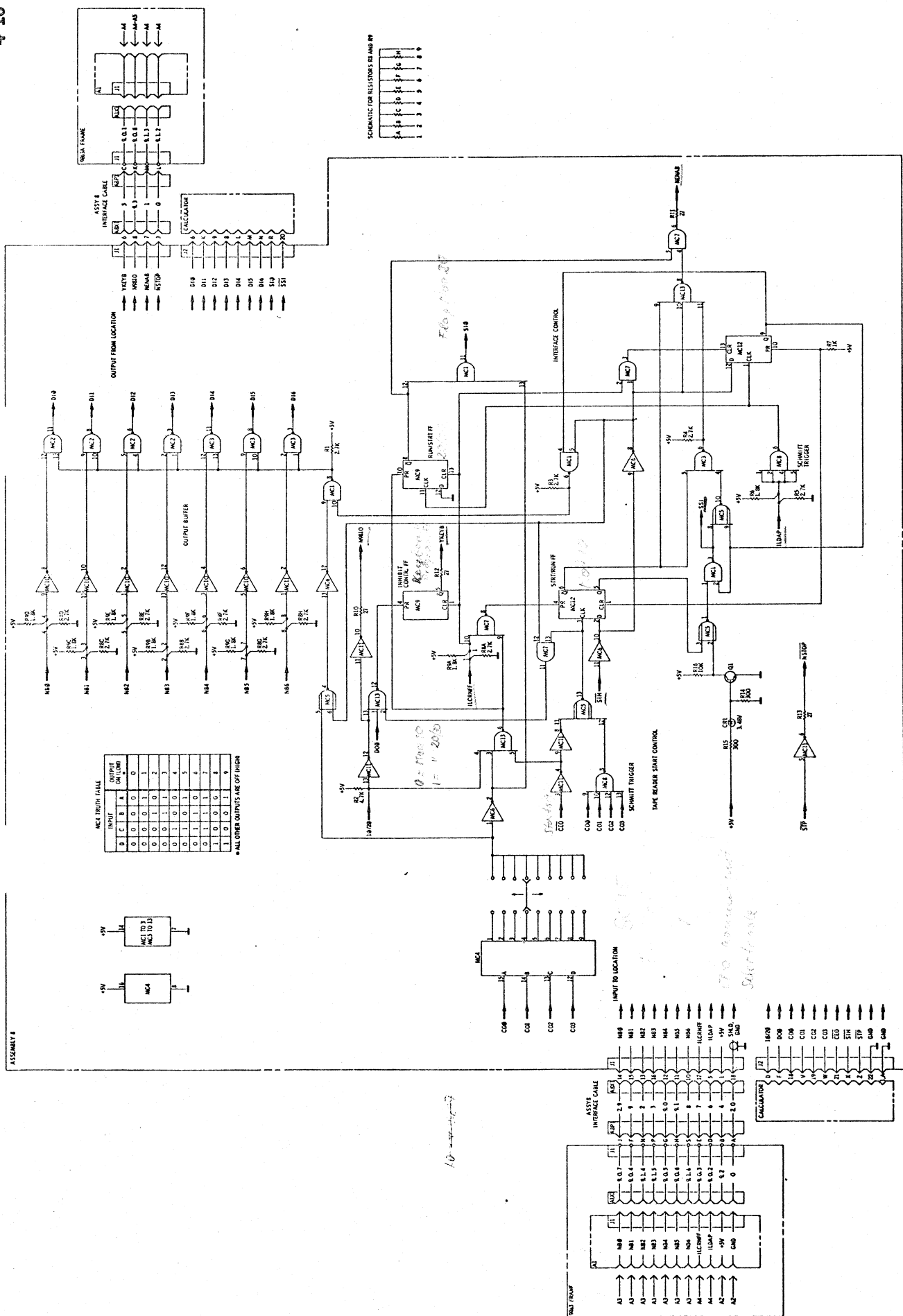


FIGURE 3-16: CIRCUIT DIAGRAM, INPUT/OUTPUT INTERFACE BOARD.

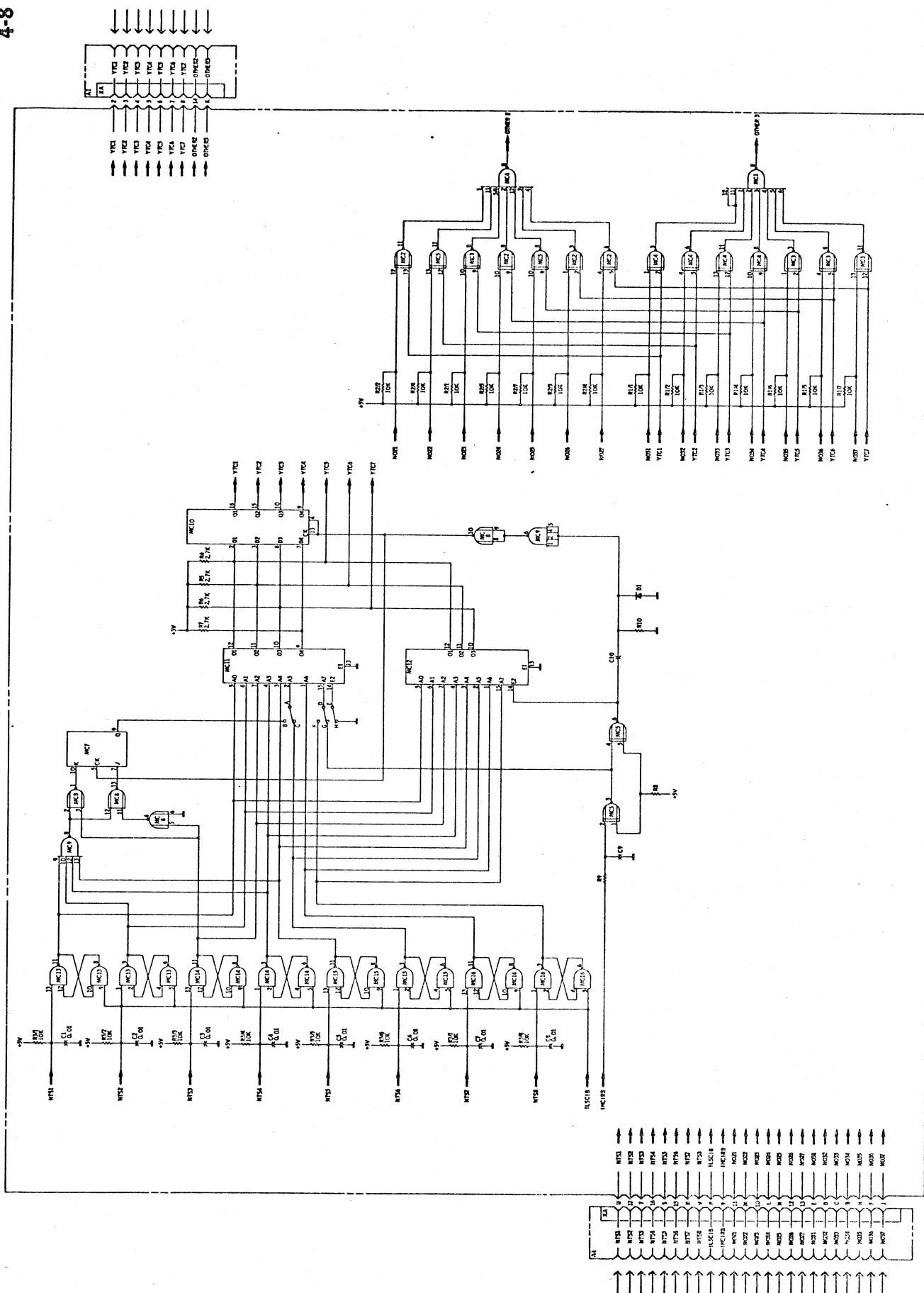


Figure 6b Assembly 6: Input Board (Special)

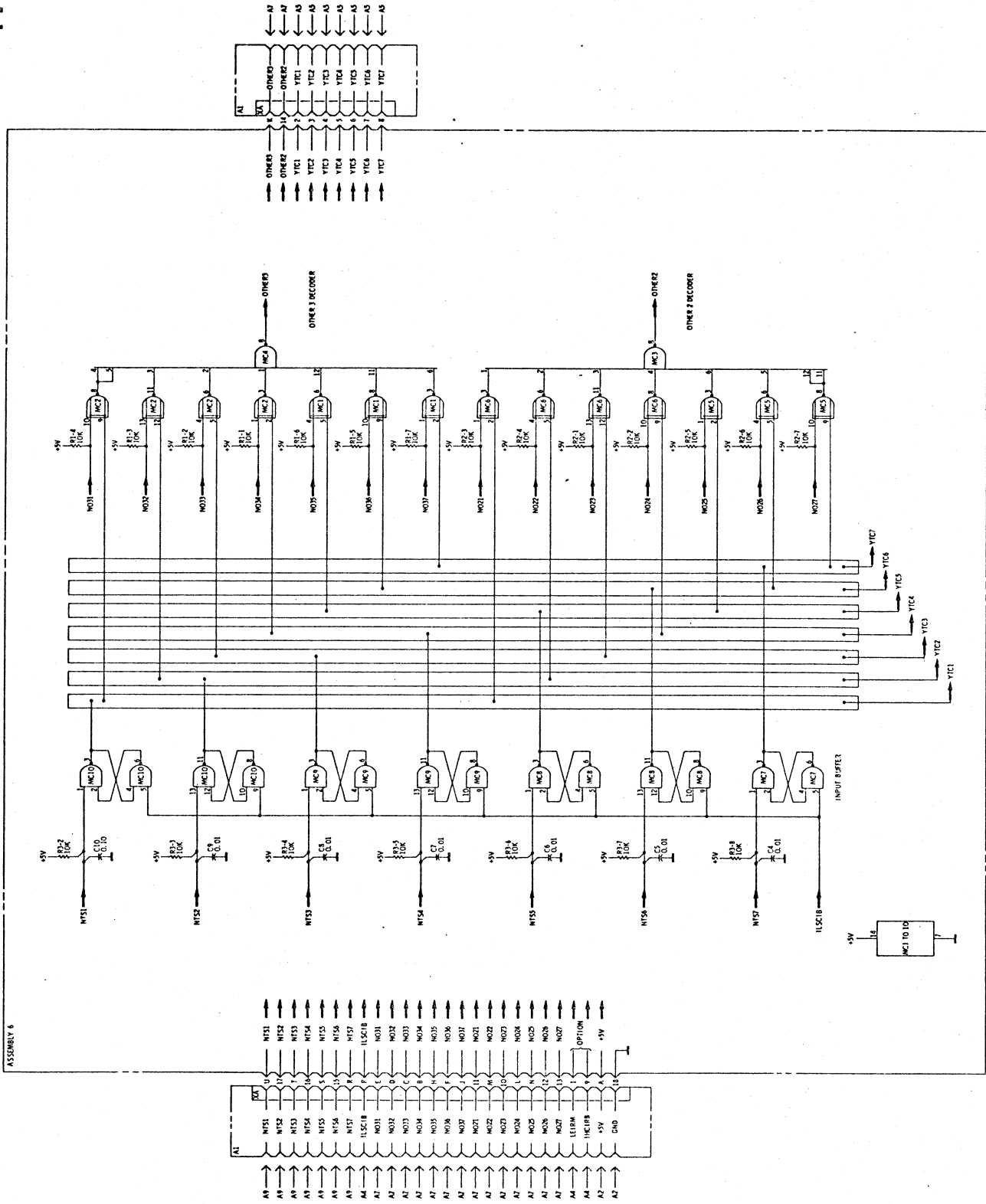


FIGURE 4-12 CIRCUIT DIAGRAM, INPUT BOARD

Figure 6a Assembly 6: Input Board (Standard)

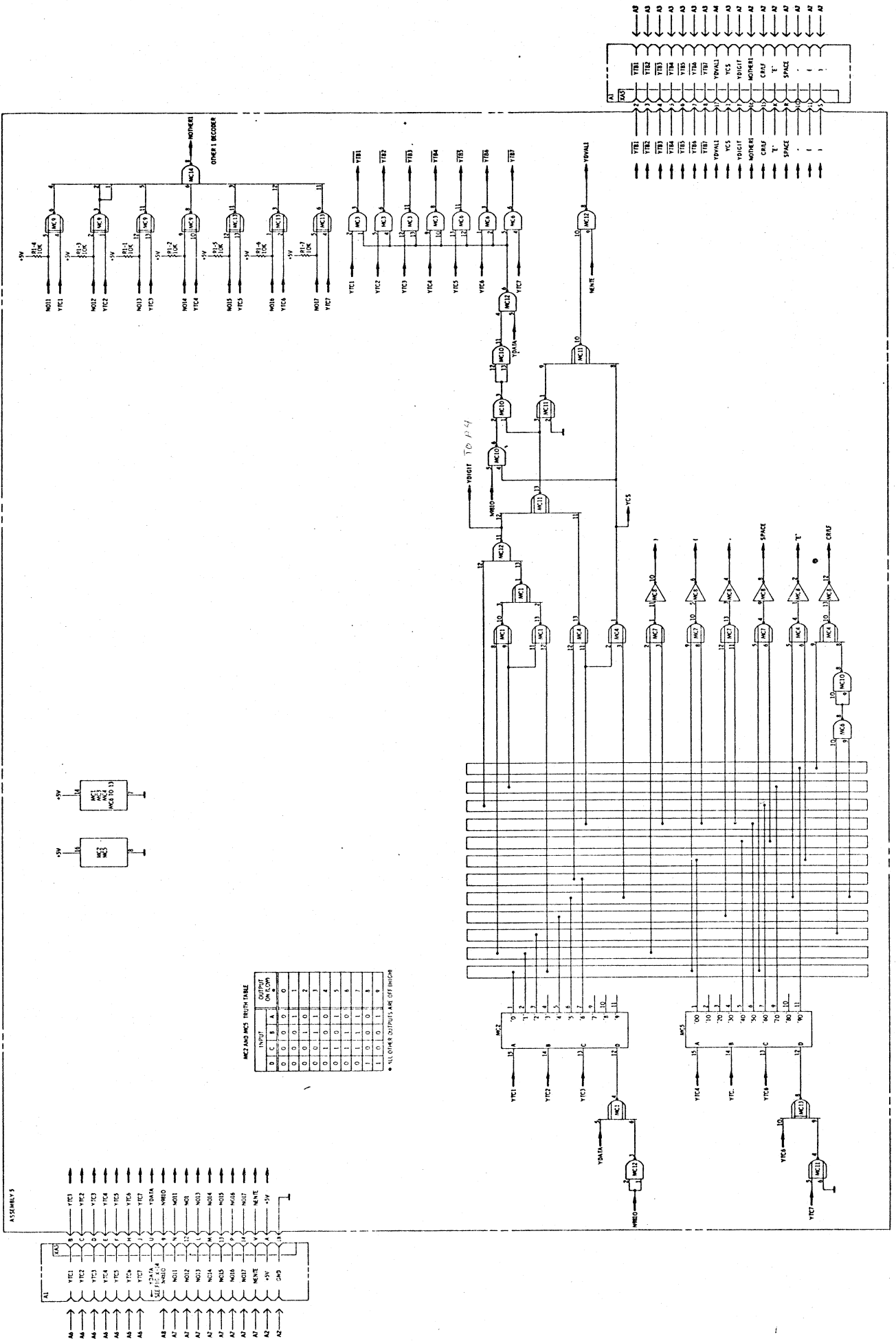


FIGURE 5-10. CIRCUIT DIAGRAM: CHARACTER ROUTER BOARD

Figure 5 Assembly 5: Character Router Board

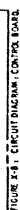
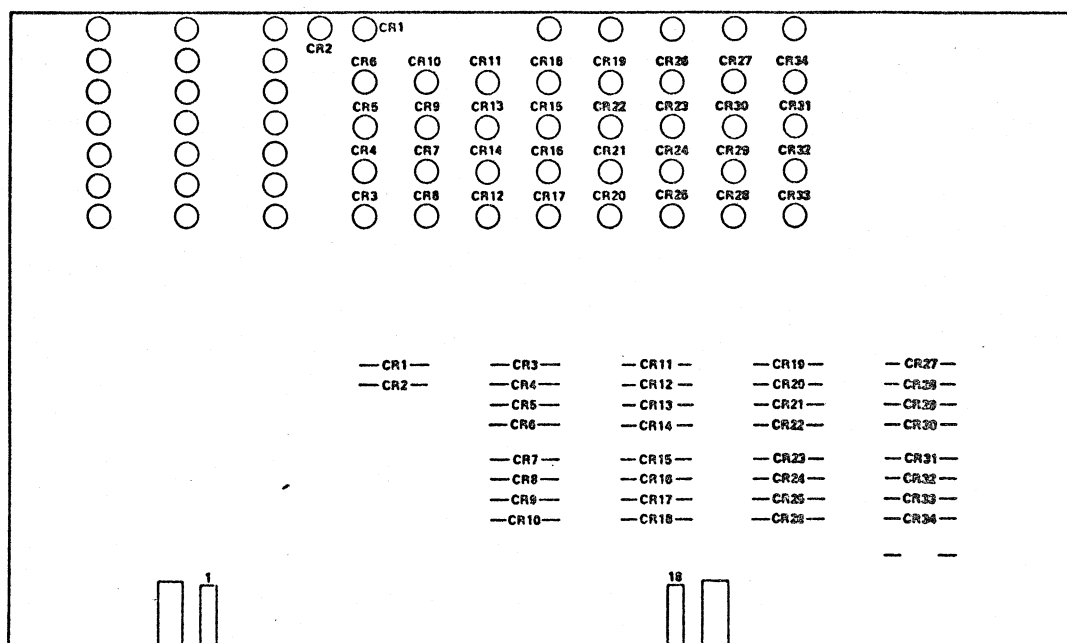
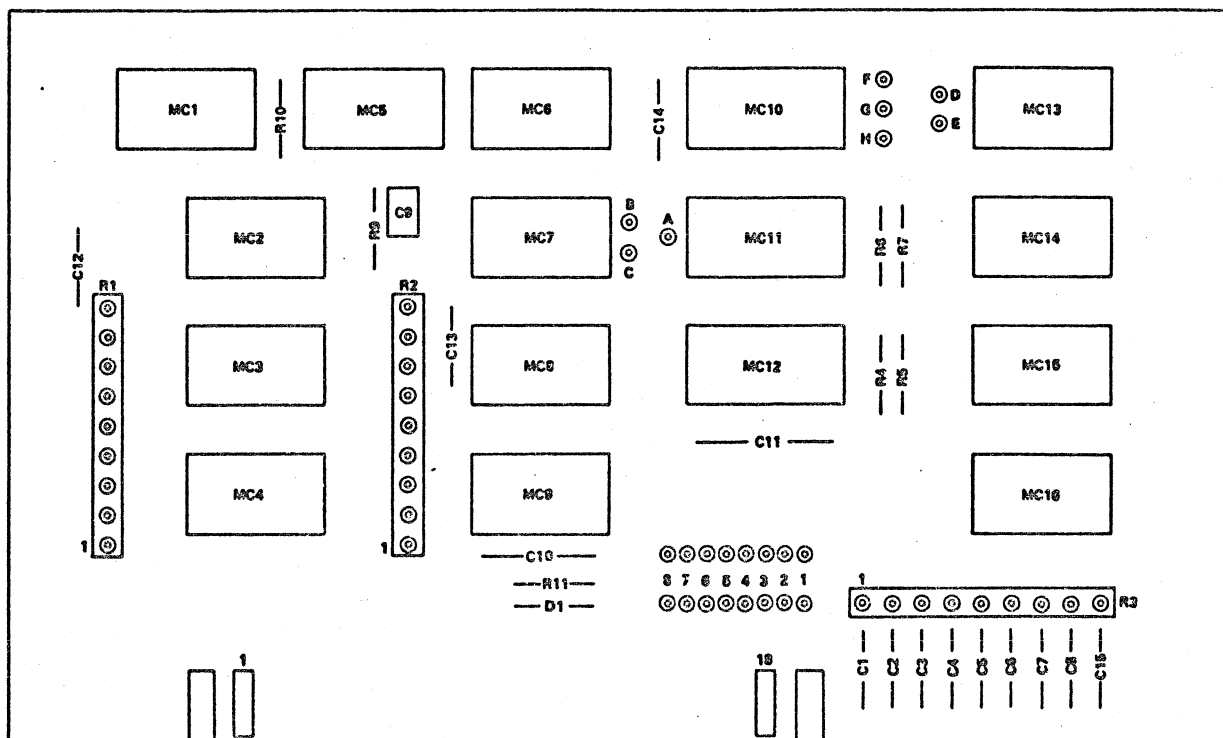


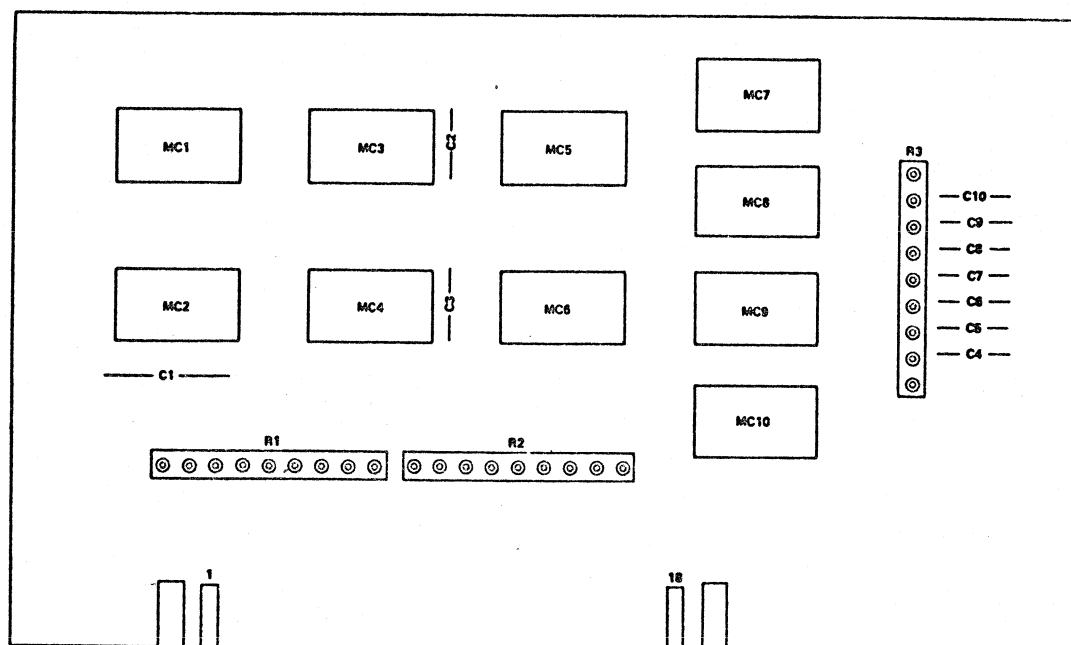
Figure 4 Assembly 4: Control Board



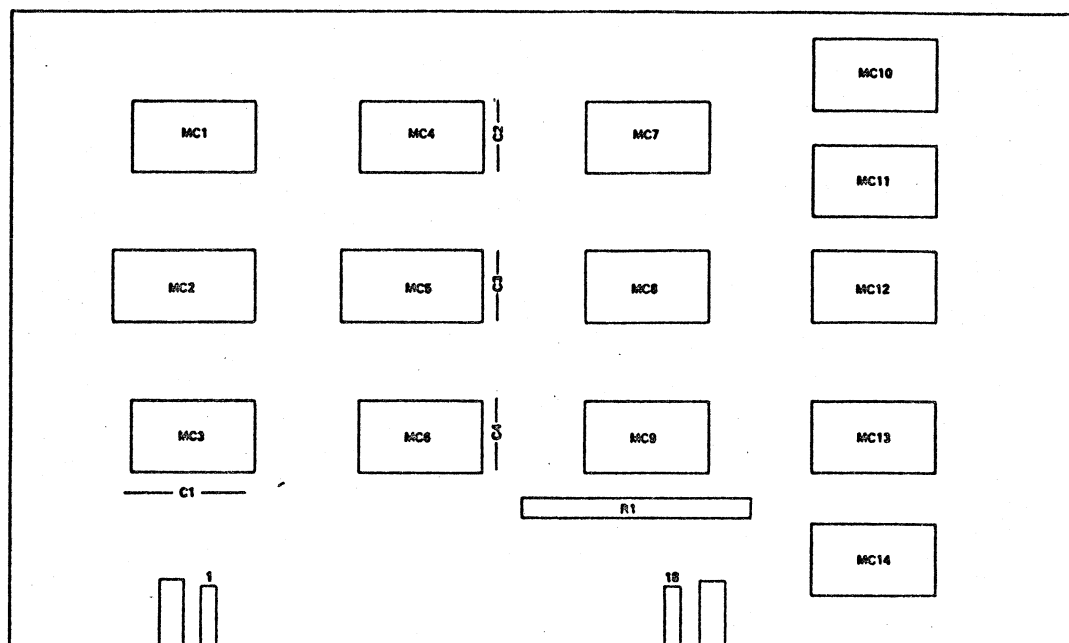
REFERENCE DESIGNATOR	H-P PART NUMBER	DESCRIPTION	CIRCUIT DIAGRAM		COMPONENT LAYOUT
			SHEET NUMBER	GRID REFERENCE	
A7	C81	1910-0022	010-GF	5V 3.595	
A7	C82	1910-0022	010-GF	5V 3.595	
A7	C83	1910-0022	010-GF	5V 3.595	
A7	C84	1910-0022	010-GF	5V 3.595	
A7	C85	1910-0022	010-GF	5V 3.595	
A7	C86	1910-0022	010-GF	5V 3.595	
A7	C87	1910-0022	010-GF	5V 3.595	
A7	C88	1910-0022	010-GF	5V 3.595	
A7	C89	1910-0022	010-GF	5V 3.595	
A7	C90	1910-0022	010-GF	5V 3.595	
A7	C91	1910-0022	010-GF	5V 3.595	
A7	C92	1910-0022	010-GF	5V 3.595	
A7	C93	1910-0022	010-GF	5V 3.595	
A7	C94	1910-0022	010-GF	5V 3.595	
A7	C95	1910-0022	010-GF	5V 3.595	
A7	C96	1910-0022	010-GF	5V 3.595	
A7	C97	1910-0022	010-GF	5V 3.595	
A7	C98	1910-0022	010-GF	5V 3.595	
A7	C99	1910-0022	010-GF	5V 3.595	
A7	C100	1910-0022	010-GF	5V 3.595	
A7	C101	1910-0022	010-GF	5V 3.595	
A7	C102	1910-0022	010-GF	5V 3.595	
A7	C103	1910-0022	010-GF	5V 3.595	
A7	C104	1910-0022	010-GF	5V 3.595	
A7	C105	1910-0022	010-GF	5V 3.595	
A7	C106	1910-0022	010-GF	5V 3.595	
A7	C107	1910-0022	010-GF	5V 3.595	
A7	C108	1910-0022	010-GF	5V 3.595	
A7	C109	1910-0022	010-GF	5V 3.595	
A7	C110	1910-0022	010-GF	5V 3.595	
A7	C111	1910-0022	010-GF	5V 3.595	
A7	C112	1910-0022	010-GF	5V 3.595	
A7	C113	1910-0022	010-GF	5V 3.595	
A7	C114	1910-0022	010-GF	5V 3.595	
A7	C115	1910-0022	010-GF	5V 3.595	
A7	C116	1910-0022	010-GF	5V 3.595	
A7	C117	1910-0022	010-GF	5V 3.595	
A7	C118	1910-0022	010-GF	5V 3.595	
A7	C119	1910-0022	010-GF	5V 3.595	
A7	C120	1910-0022	010-GF	5V 3.595	
A7	C121	1910-0022	010-GF	5V 3.595	
A7	C122	1910-0022	010-GF	5V 3.595	
A7	C123	1910-0022	010-GF	5V 3.595	
A7	C124	1910-0022	010-GF	5V 3.595	
A7	C125	1910-0022	010-GF	5V 3.595	
A7	C126	1910-0022	010-GF	5V 3.595	
A7	C127	1910-0022	010-GF	5V 3.595	
A7	C128	1910-0022	010-GF	5V 3.595	
A7	C129	1910-0022	010-GF	5V 3.595	
A7	C130	1910-0022	010-GF	5V 3.595	
A7	C131	1910-0022	010-GF	5V 3.595	
A7	C132	1910-0022	010-GF	5V 3.595	
A7	C133	1910-0022	010-GF	5V 3.595	
A7	C134	1910-0022	010-GF	5V 3.595	



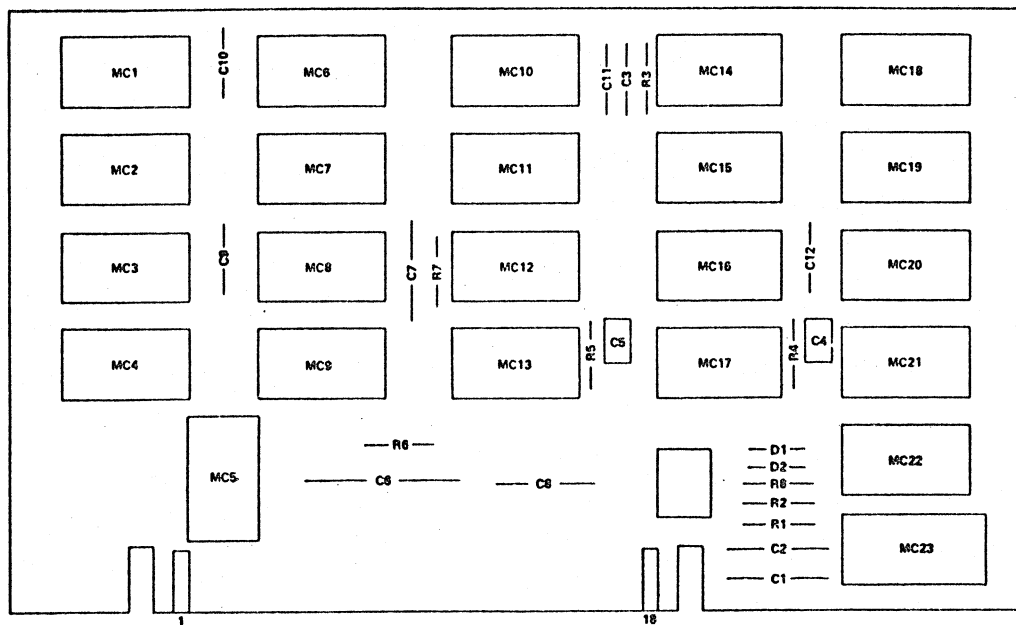
REFERENCE DESIGNATOR	H-F PART NUMBER	DESCRIPTION	CIRCUIT DIAGRAM		COMPONENT LAYOUT
			SHEET NUMBER	GRID REFERENCE	
A6	09863-66506	SPECIAL BOARD ASSY-INPUT			
REFERENCE DESIGNATOR	HP PART NUMBER	DESCRIPTION			
A6 C1	0160-3847	C-F .01UF 25V			
A6 C2	0160-3847	C-F .01UF 25V			
A6 C3	0160-3847	C-F .01UF 25V			
A6 C4	0160-3847	C-F .01UF 25V			
A6 C5	0160-3847	C-F .01UF 25V			
A6 C6	0160-3847	C-F .01UF 25V			
A6 C7	0160-3847	C-F .01UF 25V			
A6 C8	0160-3847	C-F .01UF 25V			
A6 C9	0160-2930	C-F .01UF 25V			
A6 C10	0180-0291	C-F 1UF 25V			
A6 C11	0180-0116	C-F 6.8UF 35V			
A6 C12	0160-3847	C-F .01UF 25V			
A6 C13	0160-3847	C-F .01UF 25V			
A6 C14	0160-3847	C-F .01UF 25V			
A6 C15	0160-3347	C-F .01UF 25V			
A6 CR1	1901-0040	DIO S1			
A6 MC1	1820-0070	IC 442 ONE QUIN			
A6 MC2	1820-0282	IC DIG QUAD OR			
A6 MC3	1820-0282	IC DIG QUAD OR			
A6 MC4	1820-0282	IC DIG QUAD OR			
A6 MC5	1820-0282	IC DIG QUAD OR			
A6 MC6	1820-0070	IC 4420N EQUIV			
A6 MC7	1820-0075	IC 7473N EQUIV			
A6 MC8	1820-0328	IC 7402N EQUIV			
A6 MC9	1820-0669	IC 7420N EQUIV			
A6 MC10	1820-0301	IC 7475N EQUIV			
A6 MC11	--	ROM. TYPE DEPENDS ON REQUIREMENT			
A6 MC12	--	ROM. TYPE DEPENDS ON REQUIREMENT			
A6 MC13	1820-0054	IC 7400 N EQUIV			
A6 MC14	1820-0054	IC 7400 N EQUIV			
A6 MC15	1820-0054	IC 7400 N EQUIV			
A6 MC16	1820-0054	IC 7400 N EQUIV			
A6 R1	1810-0055	RES-NETWORK 10K			
A6 R2	1810-0055	RES-NETWORK 10K			
A6 R3	1810-0055	RES-NETWORK 10K			
A6 R4	0698-4264	R-F 2.7K 1/4W			
A6 R5	0698-4264	R-F 2.7K 1/4W			
A6 R6	0698-4264	R-F 2.7K 1/4W			
A6 R7	0698-4264	R-F 2.7K 1/4W			
A6 R8	0698-4264	R-F 2.7K 1/4W			
A6 R9	0698-4242	R-F 200 1/4W			
A6 R10	0698-4242	R-F 200 1/4W			



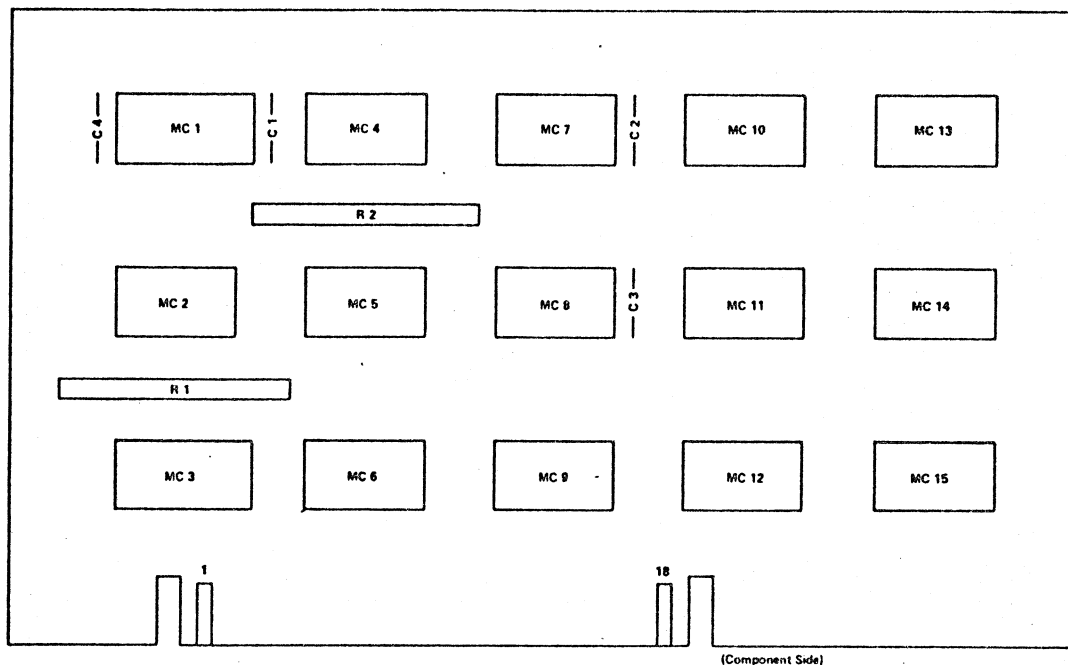
REFERENCE DESIGNATOR	H.P. PART NUMBER	DESCRIPTION	CIRCUIT DIAGRAM		COMPONENT LAYOUT
			SHEET NUMBER	GRID REFERENCE	
46 C1	0160-2116	C-F 6.2UF 35V			
46 C2	0160-3847	C-F .01UF 25V			
46 C3	0160-3847	C-F .01UF 25V			
46 C4	0160-3847	C-F .01UF 25V			
46 C5	0160-3847	C-F .01UF 25V			
46 C6	0160-3847	C-F .01UF 25V			
46 C7	0160-3847	C-F .01UF 25V			
46 C8	0160-3847	C-F .01UF 25V			
46 C9	0160-3847	C-F .01UF 25V			
46 C10	0160-3847	C-F .01UF 25V			
46 MC1	1820-0242	IC DIG 2040 JR			
46 MC2	1820-0242	IC DIG 2040 JR			
46 MC3	1820-0242	IC 740CN 5011V			
46 MC4	1820-0242	IC 740CN 5011V			
46 MC5	1820-0242	IC 740CN 5011V			
46 MC6	1820-0242	IC 740CN 5011V			
46 MC7	1820-0242	IC 740CN 5011V			
46 MC8	1820-0242	IC 740CN 5011V			
46 MC9	1820-0242	IC 740CN 5011V			
46 MC10	1820-0242	IC 740CN 5011V			
46 R1	1810-0055	RES-NET 40K			
46 R2	1810-0055	RES-NET 40K			
46 R3	1810-0055	RES-NET 40K			



REFERENCE DESIGNATOR	H-P PART NUMBER	DESCRIPTION	CIRCUIT DIAGRAM		COMPONENT LAYOUT
			SHEET NUMBER	GRID REFERENCE	
AS	C1	318C-1116			
AS	C2	318C-3847			
AS	C3	318C-3847			
AS	C4	318C-3847			
AS	MC1	182C-0324			
AS	MC2	182C-0214			
AS	MC3	182C-0054			
AS	MC4	182C-0324			
AS	MC5	182C-0214			
AS	MC6	182C-0054			
AS	MC7	182C-0324			
AS	MC8	182C-0174			
AS	MC9	182C-0247			
AS	MC10	182C-0054			
AS	MC11	182C-0328			
AS	MC12	182C-0054			
AS	MC13	182C-0212			
AS	MC14	182C-0070			
AS	R1	181C-0055			



REFERENCE DESIGNATOR	H-P PART NUMBER	DESCRIPTION	CIRCUIT DIAGRAM		COMPONENT LAYOUT
			SHEET NUMBER	GRID REFERENCE	
A4 C1	0140-2125	C-F 150F 10V			
A4 C2	0140-2124	C-F 450F 10V			
A4 C3	0140-2127	C-F 2.20F 20V			
A4 C4	0160-2207	C-F 300PF 330V			
A4 C5	0160-2207	C-F 300PF 330V			
A4 C6	0140-0137	C-F 1000F 17V			
A4 C7	0140-0224	C-F 330F 10V			
A4 C8	0140-0110	C-F 6.20F 35V			
A4 C9	0160-3847	C-F .010F 25V			
A4 C10	0160-3847	C-F .010F 25V			
A4 C11	0160-3847	C-F .010F 25V			
A4 C12	0160-3847	C-F .010F 25V			
A4 C81	1901-0740	D10 51 10V .03A			
A4 C82	1901-0740	D10 51 10V .03A			
A4 MC1	1820-0054	IC 7400N EQUIV			
A4 MC2	1820-0069	IC 7400N			
A4 MC3	1820-0511	IC TTL 2INGATE			
A4 MC4	1820-0064	IC 7410N EQUIV			
A4 MC5	1820-0174	IC 7404N EQUIV			
A4 MC6	1820-0075	IC 7473N EQUIV			
A4 MC7	1820-0329	IC 7402N EQUIV			
A4 MC8	1820-0064	IC 7410N EQUIV			
A4 MC9	1820-0069	IC 7400N			
A4 MC10	1820-0329	IC 7402N EQUIV			
A4 MC11	1820-0075	IC 7473N EQUIV			
A4 MC12	1820-0054	IC 7400N EQUIV			
A4 MC13	1820-0174	IC 7404N EQUIV			
A4 MC14	1820-0064	IC 7410N EQUIV			
A4 MC15	1820-0174	IC 7404N EQUIV			
A4 MC16	1820-0075	IC 7473N EQUIV			
A4 MC17	1820-0329	IC 7402N EQUIV			
A4 MC21	1820-0329	IC 7402N EQUIV			
A4 MC22	1820-0329	IC 7402N EQUIV			
A4 MC23	1820-0329	IC 7402N EQUIV			
A4 C1	0781-0030	R-F 5.6K1%			
A4 C2	0600-4220	R-F 9.5K1%			
A4 C3	0600-4243	R-F 330 5% .125W			
A4 C4	0600-4243	R-F 330 5% .125W			
A4 C5	0600-4243	R-F 330 5% .125W			
A4 C6	0600-4273	R-F 10K5% .125W			
A4 C7	0600-4273	R-F 10K5% .125W			
A4 C8	0600-4023	R-F 9.5K1%			



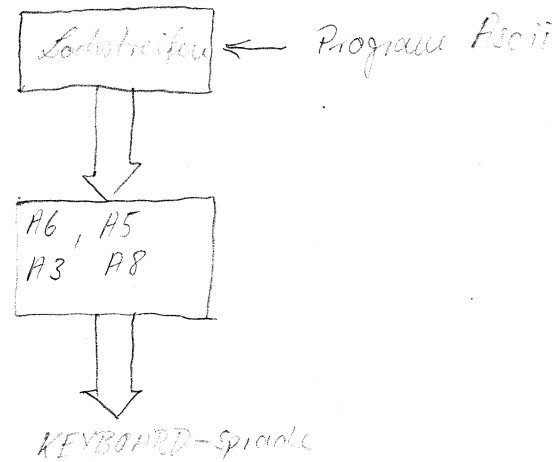
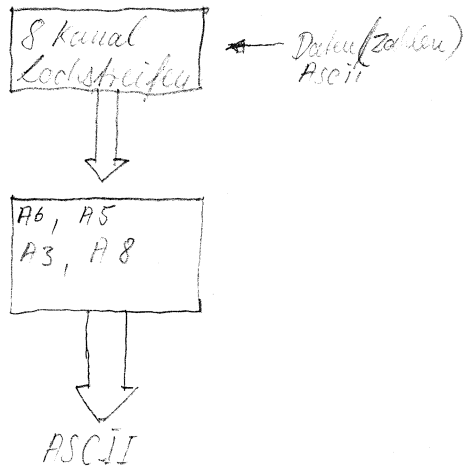
REFERENCE DESIGNATOR	H-P PART NUMBER	DESCRIPTION	CIRCUIT DIAGRAM		COMPONENT LAYOUT
			SHEET NUMBER	GRID REFERENCE	
A3	C1	016C-1847			
A3	C2	016C-1847			
A3	C3	016C-1847			
A3	C4	018C-0116			
A3	MC1	182C-0301			
A3	MC2	182C-0269			
A3	MC3	1816-2041			
A3	MC4	182C-0299			
A3	MC5	182C-0269			
A3	MC6	182C-0269			
A3	MC7	182C-0269			
A3	MC8	182C-0174			
A3	MC9	182C-0034			
A3	MC10	182C-0034			
A3	MC11	182C-0064			
A3	MC12	182C-0064			
A3	MC13	182C-0064			
A3	MC14	182C-0069			
A3	MC15	182C-0070			
A3	-1	181C-0041			
A3	-2	181C-0041			

9863 H

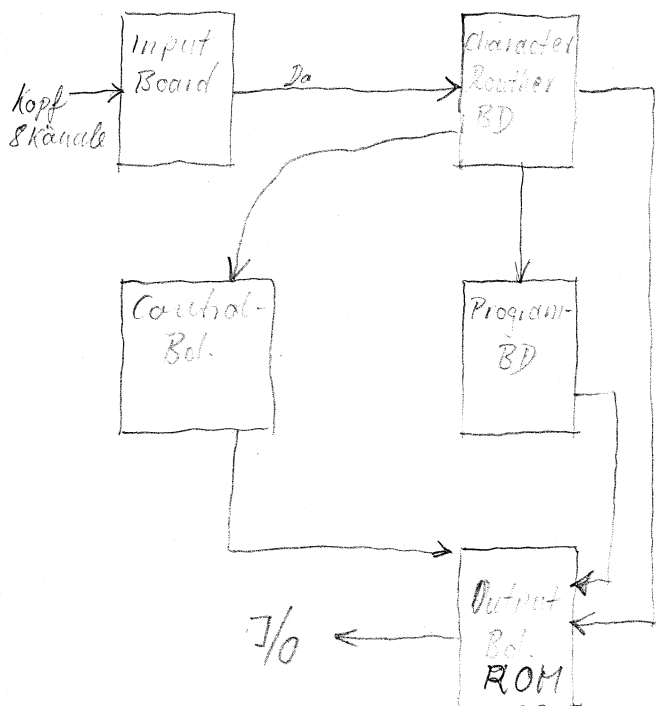
5.2.75

Tape m. 8 Kanäle

Datenfluß vom Tape z. Calc. Mod. 10



Mit Model 10 Normal - Mode zum Progr.
 einlesen
~~11 10 DATA Mode~~
 nach dem Einlesen auf DATA Mode



Data - Mode Mod. 10

Tape Book gibt nur Zahlen von 0...9, (.), E

z.B. 3.75 E 08

3,796 ~ 678 A Das A ist ein Character, den das Router-Bd. nicht an den Calc. weitergibt.

Space

CR/LF

Bei diesen Zeichen gibt das CR-Bd ein Sign. an d. Progr. Bd.

Other	1
"	2
"	3

7
1
6

~~Statt dem Space kann ein~~

End of Entry / CONT
SFL-CONT

Prog. Definition
END " "

Starten mit FMT, Cont.

z.B. 3785 LF

LF sagt dem Rechner, daß die Zahl zu Ende ist. (End of Entry/Cont.)
und stoppt d. Tape-Reader

z.B. 3785 SFL LF (SFL-Cont.)

Progr. - Definition
END - "

 aussch. f. Tape-Reader

z.B. 3 (78) 5 LF

Officer 1 }
" 2 } können zusätzlich programmiert werden
" 3 }

z.B. 528 + 397 x 82 +

Das + wird mit Officer 1, 2 oder 3 programmiert.

Das + bekommt eine bestimmte Bit-Konfiguration (Officer-Bit)