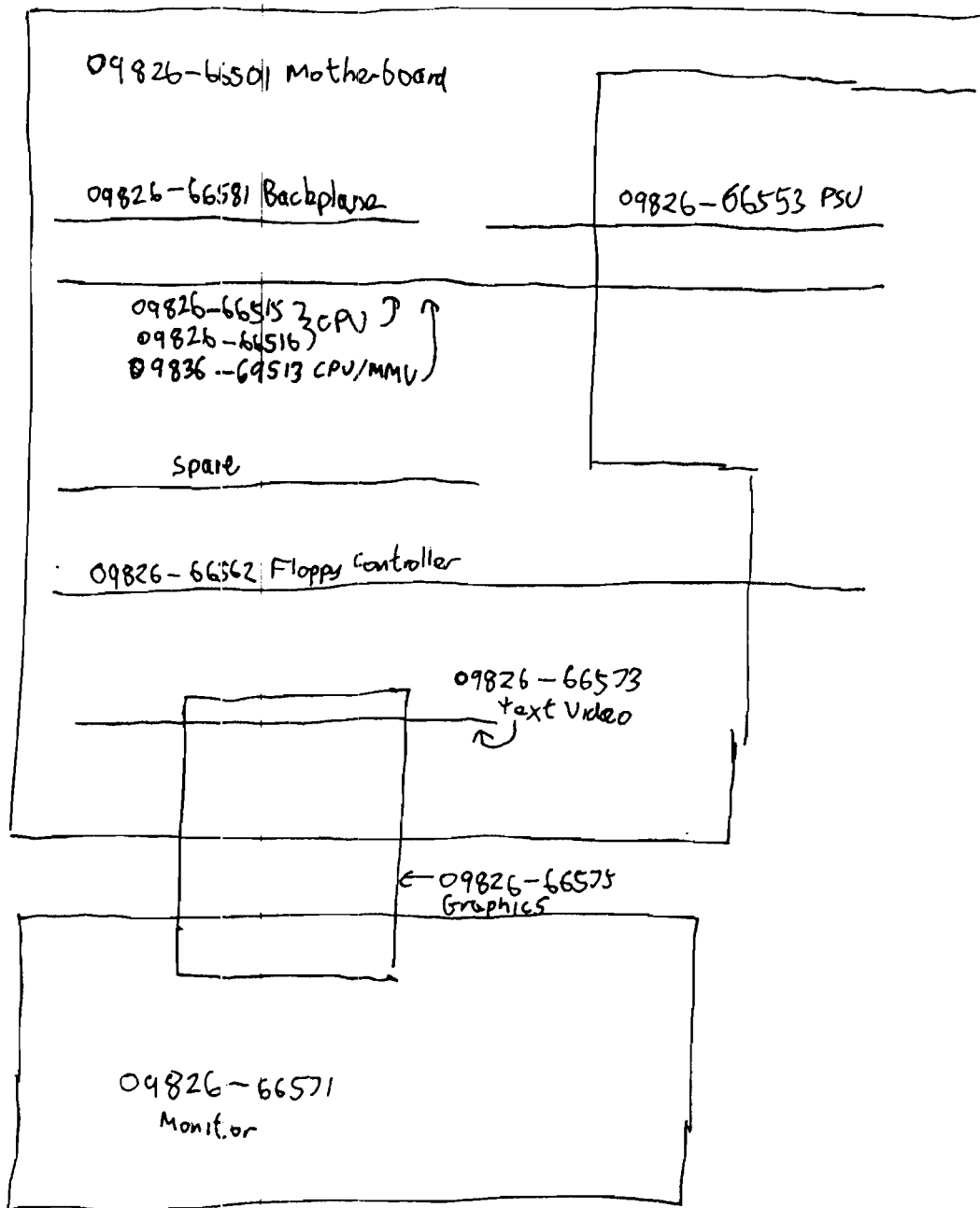
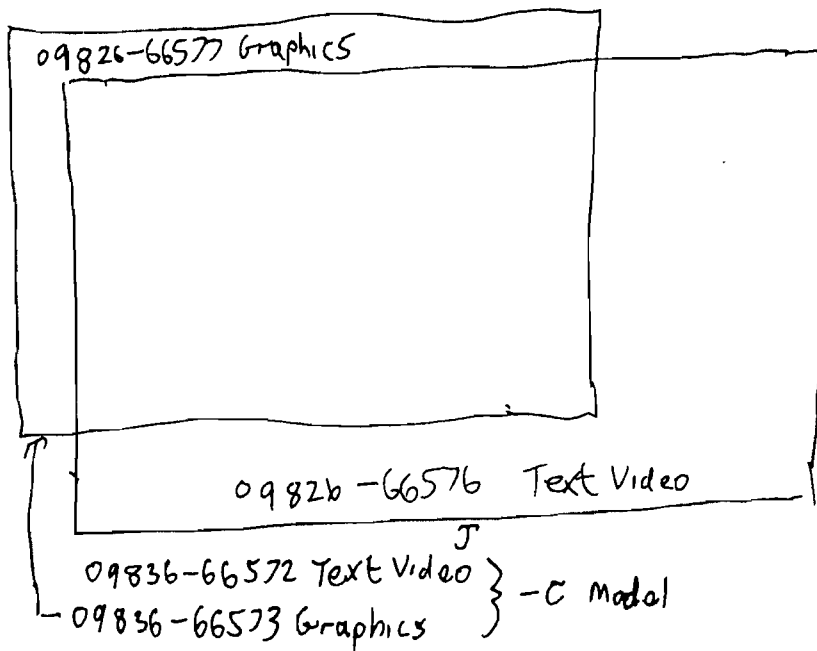
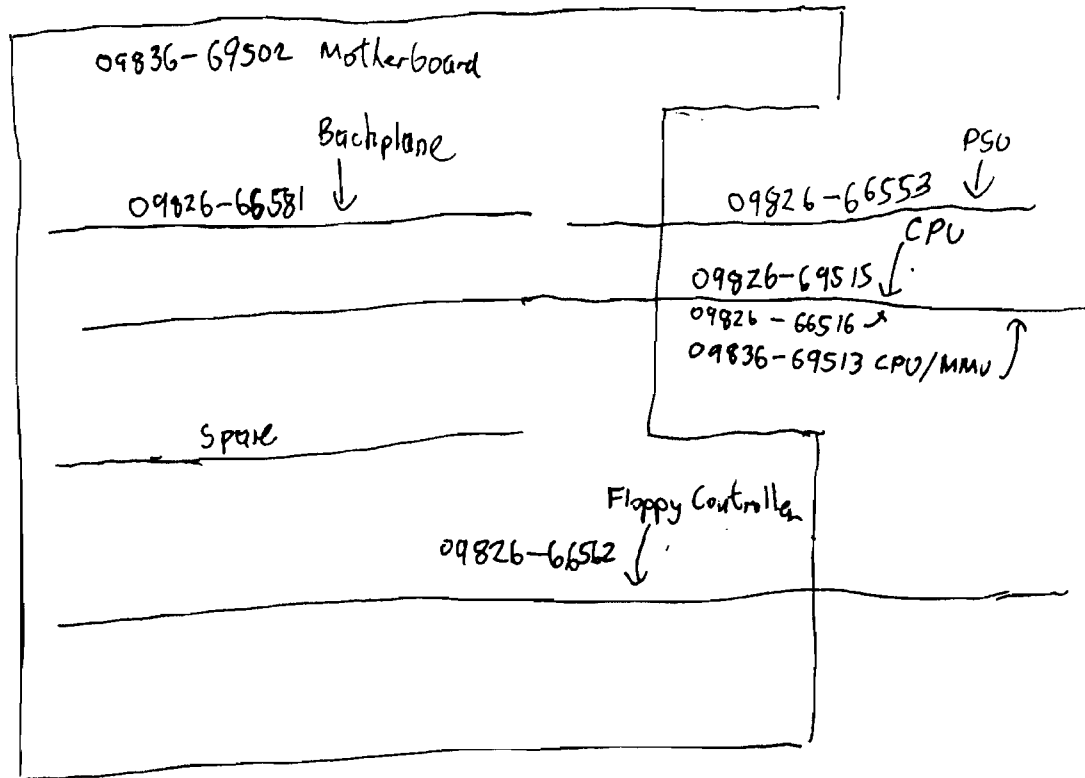


HP 9826

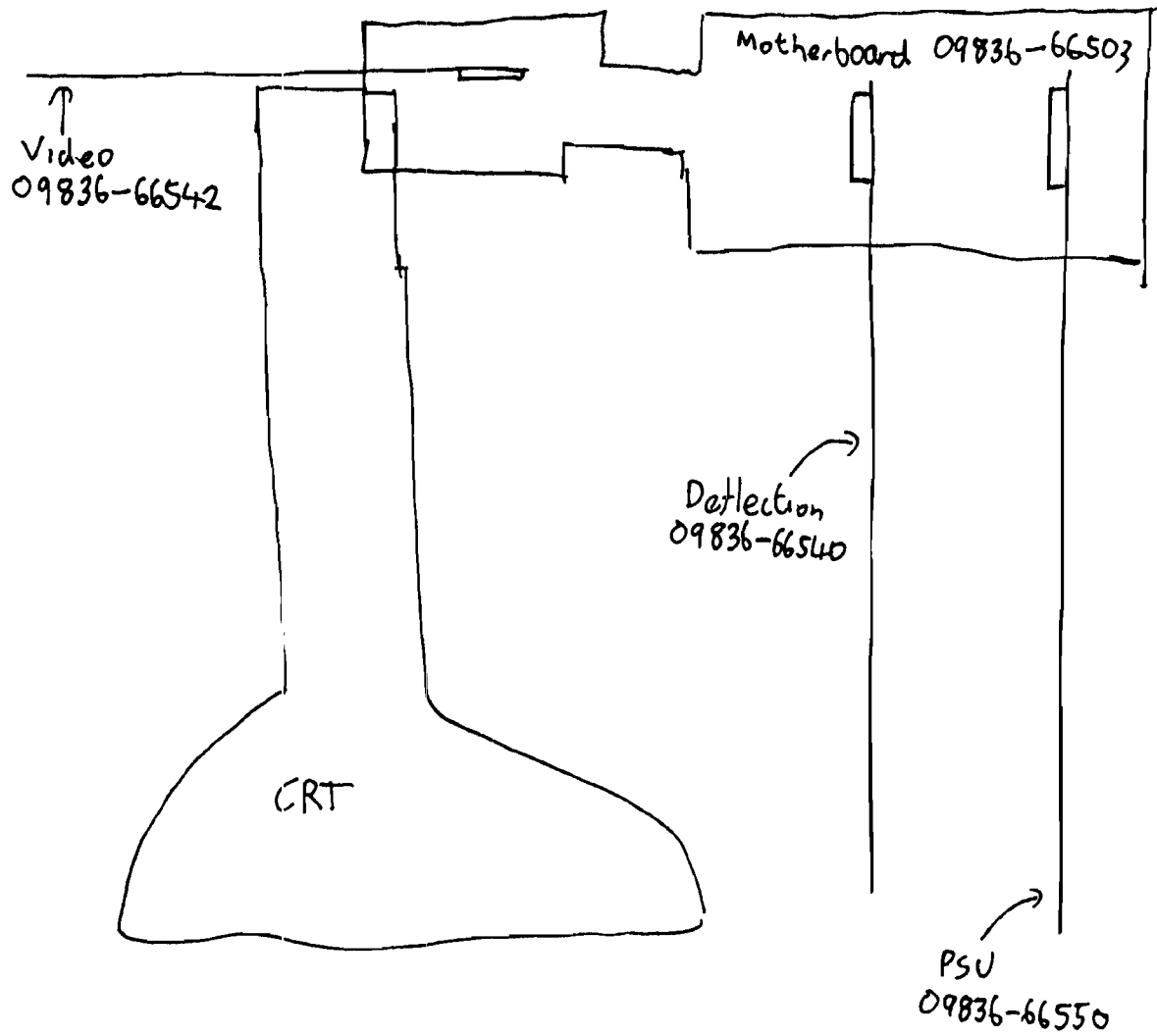


MP9836

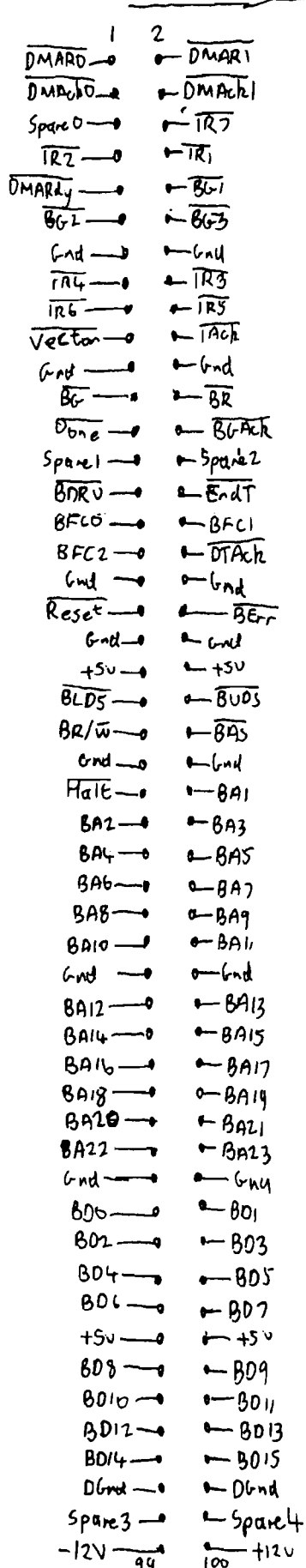
09826-66554 ^{Mains} ↓



HP9836C Monitor



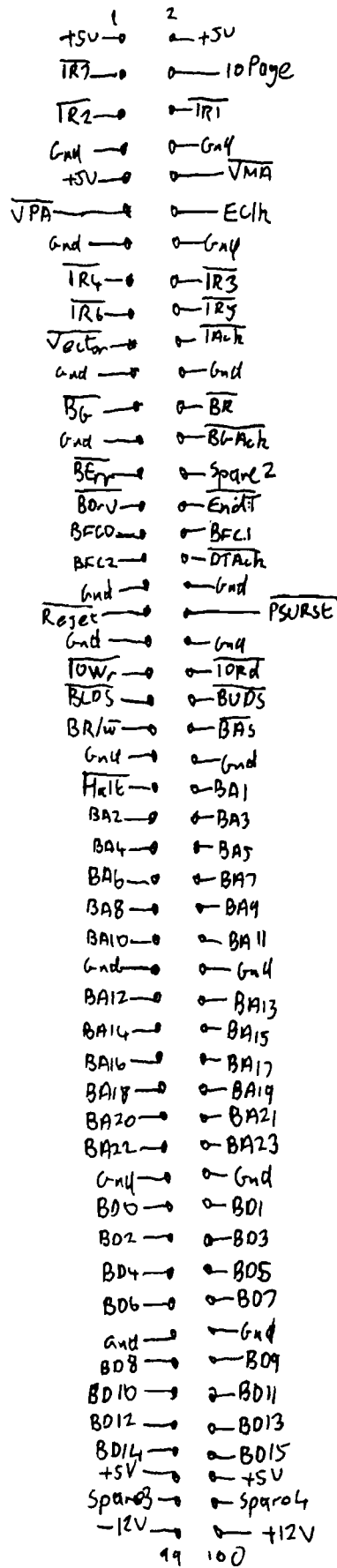
MP9826 / MP 9836 motherboard



J2

Backplane

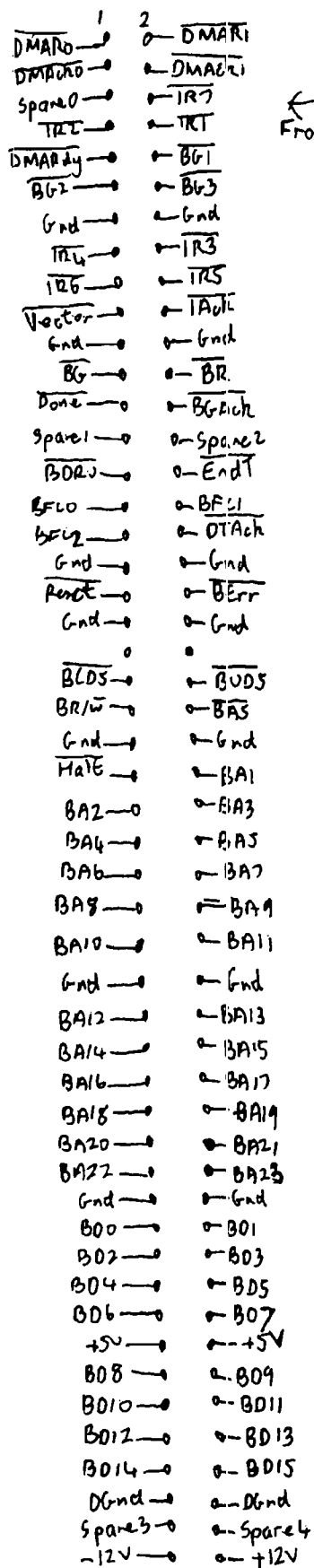
CHS
Front



J3

CPU

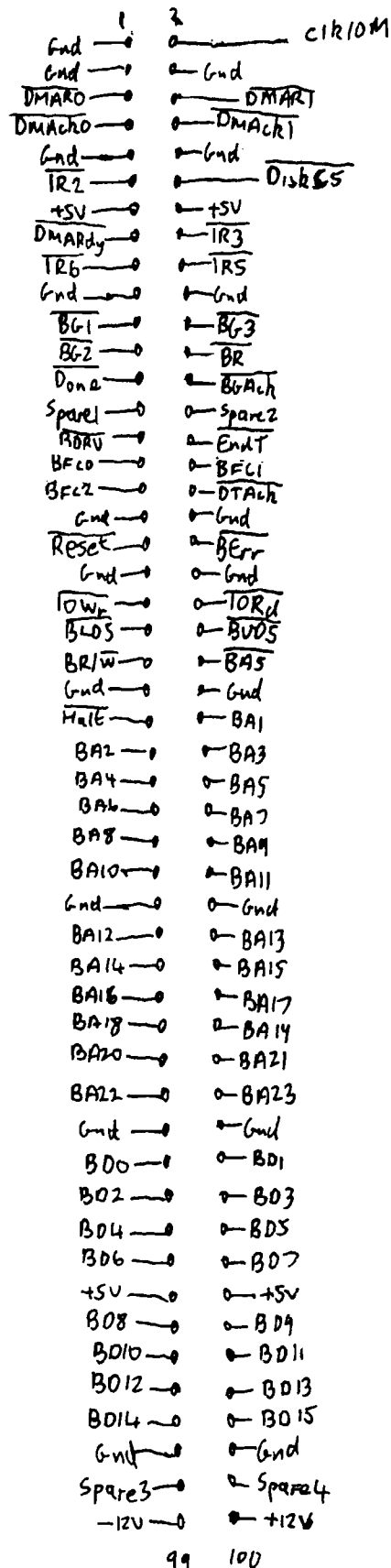
HP9826/ HP9836 Motherboard



99 100

J4

Spare

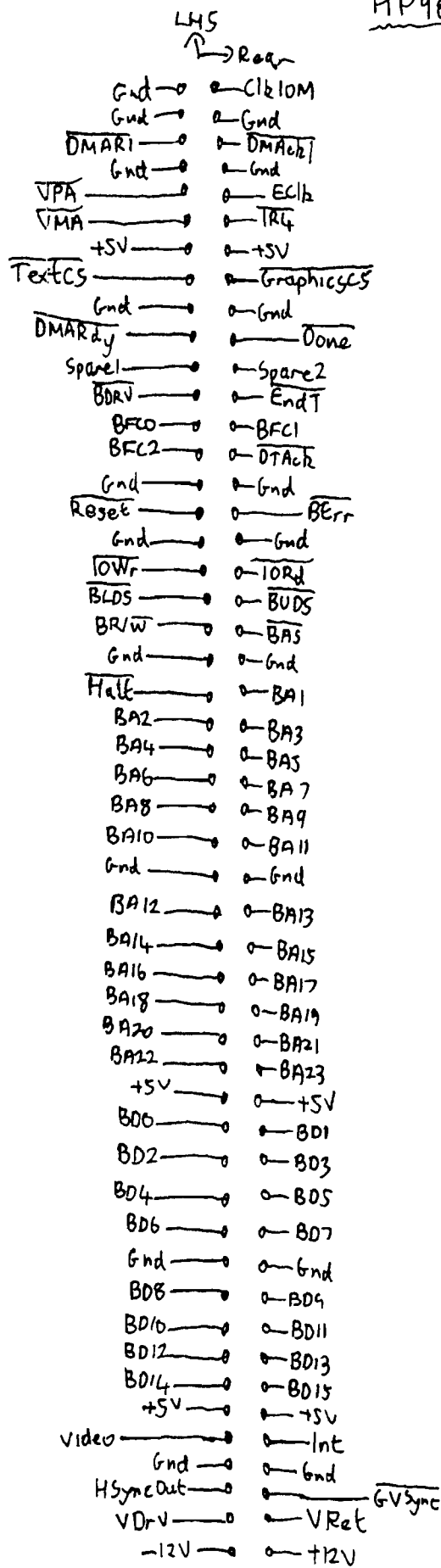


99 100

J5

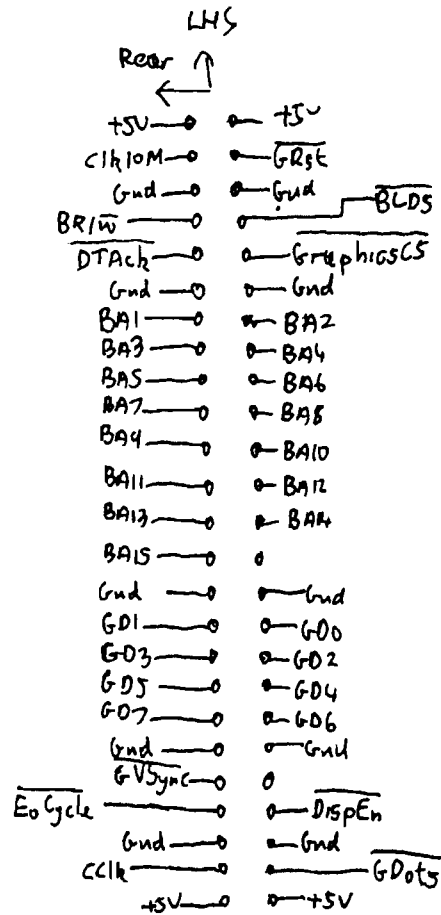
Floppy Controller

HP9826 Motherboard

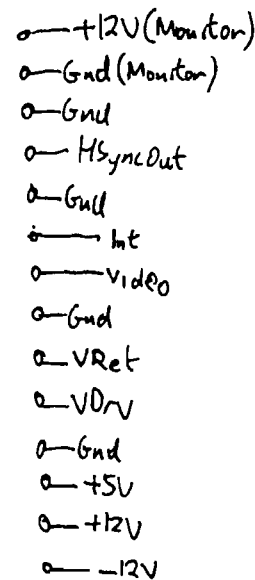


J6

Text Video



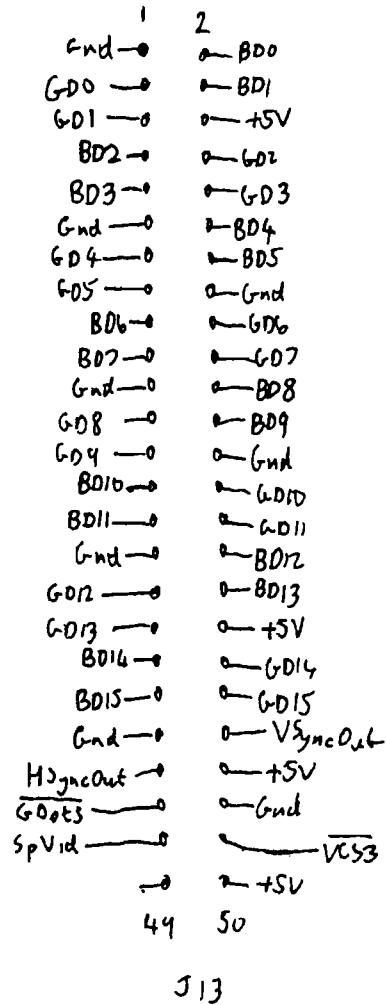
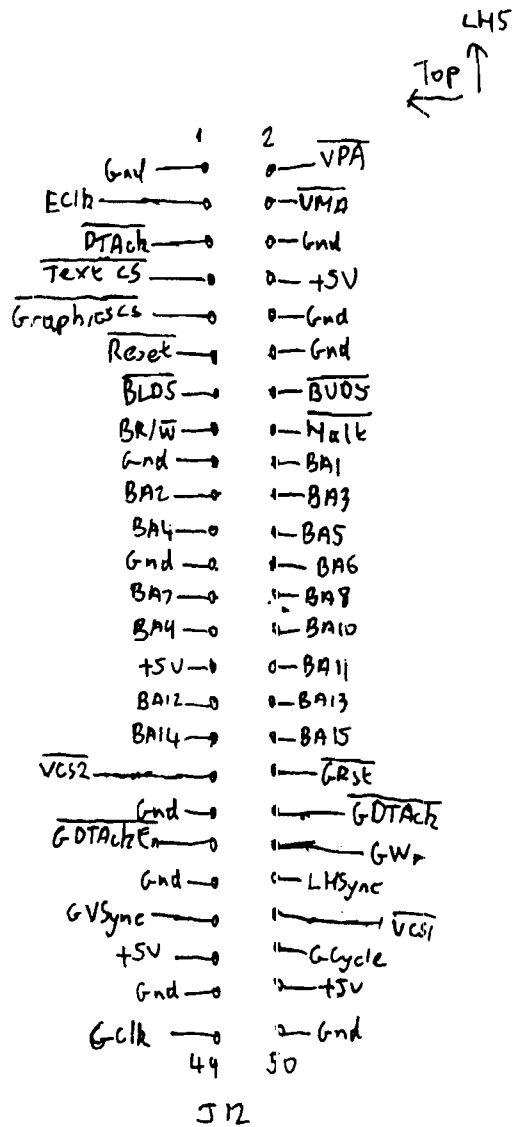
Text Video J2
(To Graphics PCB)



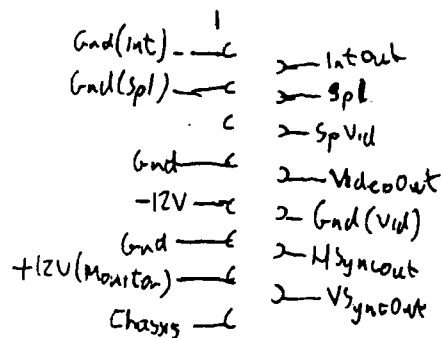
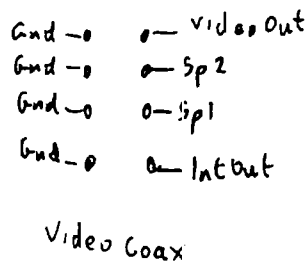
J7

Monitor

HP9836 Motherboard



Video PCB5



Monitor
J15

HP9836C Motherboard

LHS
Top ↑

Gnd → VPA
ECIR → VMA
DTACK → Gnd
TexCS → +5V
GraphicsCS → Gnd
Reset → Gnd
BLDS → BVDS
BR/W → Halt
Gnd → BA1
BA2 → BA3
BA4 → BA5
Gnd → BA6
BA7 → BA8
BA9 → BA10
+5V → BA11
BA12 → BA13
BA14 → BA15
VCS2 → GRes
Gnd → Comp
Gnd →
Gnd → GMS
GVS → VCS1
+5V → ABSync
Gnd → +5V
Gnd →

J12

Gnd → BD0
GD0 → BD1
GD1 → +5V
BD2 → G02
BD3 → GD3
Gnd → BD4
GD4 → BD5
GD5 → Gnd
BD6 → G06
BD7 → G07
Gnd → BD8
GD8 → BD9
GD9 → Gnd
BD10 → GD10
BD11 → GD11
Gnd → BD12
GD12 → BD13
GD13 → +5V
BD14 → GD14
BD15 → GD15
Gnd → VSync
VBlank → +5V
GCLK → Gnd
MSync → VCS3
+12V → +5V

J13

Video PCBs

Gnd → R
Gnd →
Gnd → G
Gnd → B

Video Coax

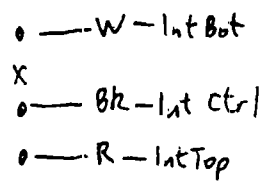
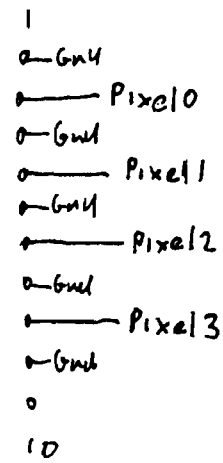
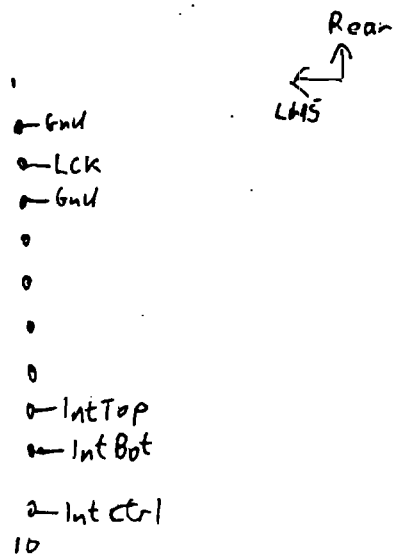
Gnd(B) → B
Gnd(G) → G
Gnd → MSync
Gnd → R
-12V → Gnd(R)
Gnd → VBlank
+12V → VSync
Shield →

Monitor

J15

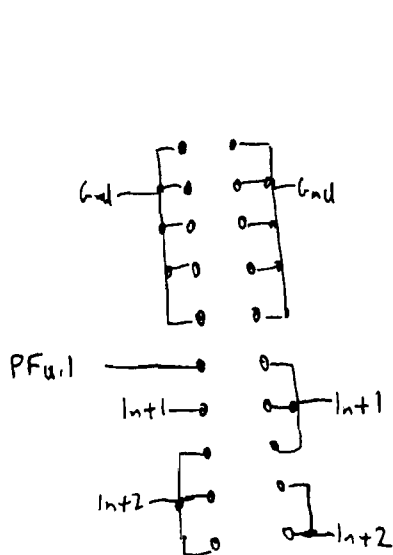
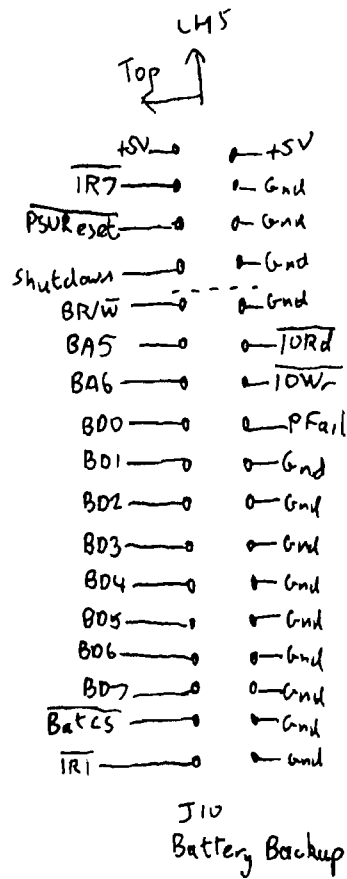
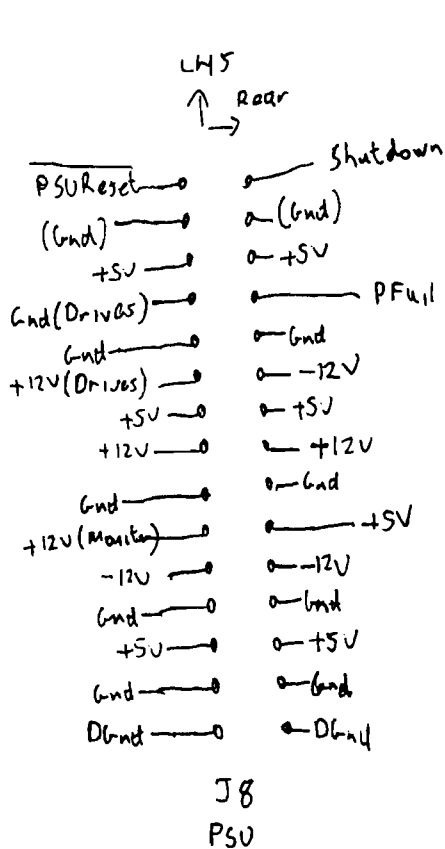
HP9835C

Video PCB Interconnect pins

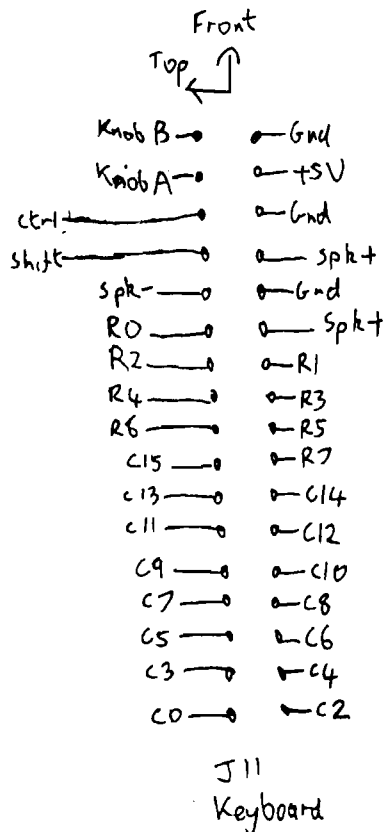
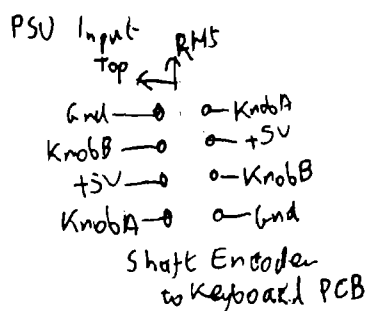


Graphics J3
Intensity Control

HP9826/ HP4836 Motherboard

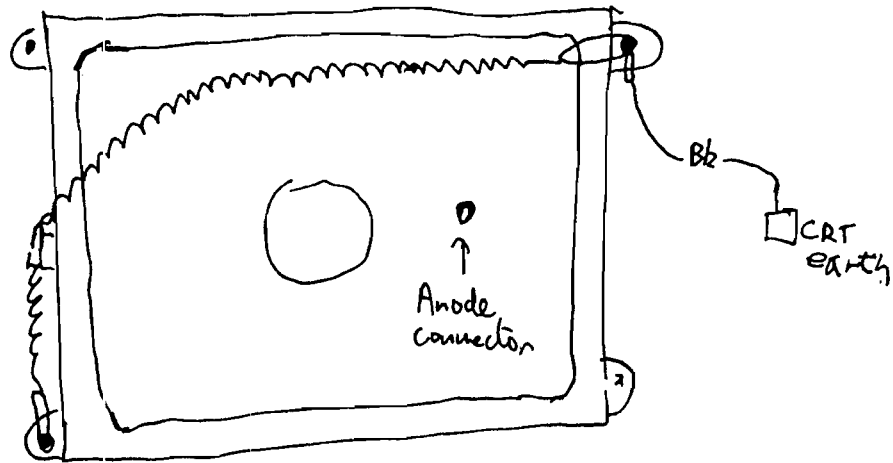


+5V
x
Gnd (Drives)
+12V (Drives)
J6, J4
Floppy Power

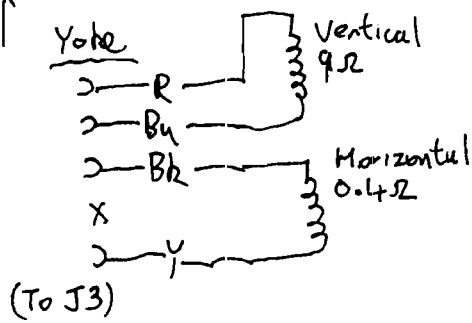


HP9826 Monitor HP9826 CRT Earthing

TOP
↑ → LHS

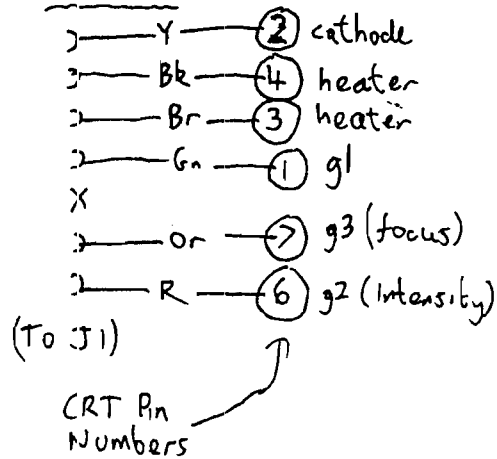


Rear
↑



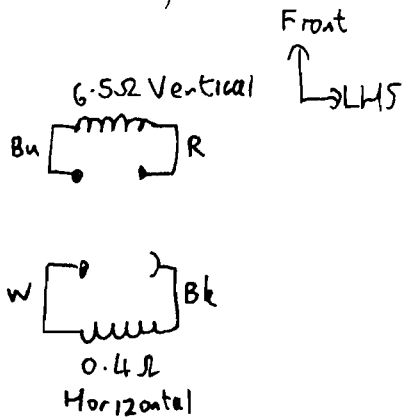
RHS
↑

CRT Base

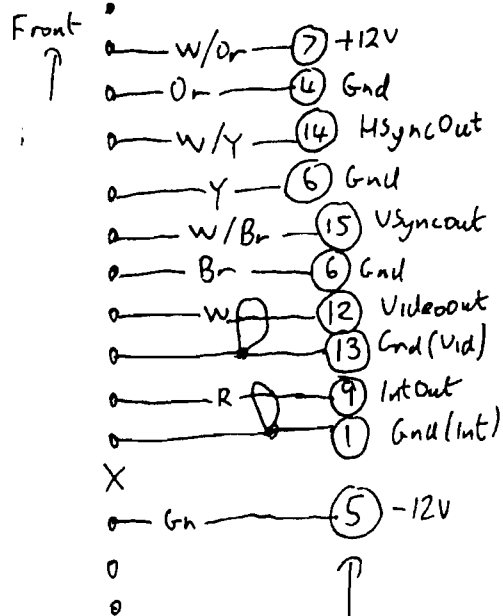


HP 9836 Monitor (09826-66580 PCB)

J1 (Yoke)

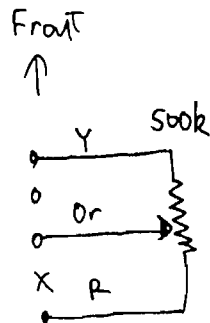


J2 (Input cable)

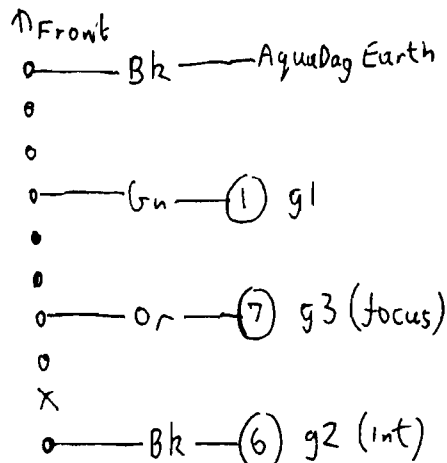


DA15 Pin numbers

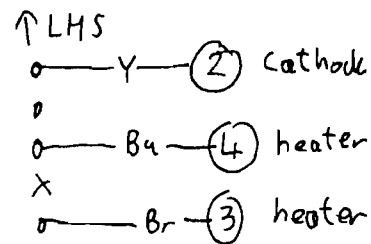
J3 (Intensity control)



J4 (CRT Base)

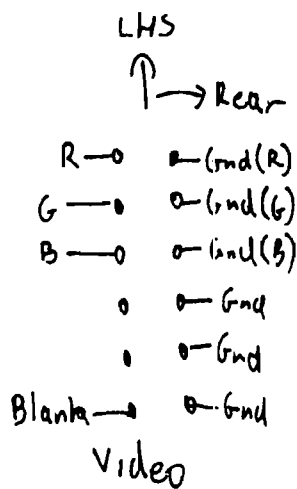
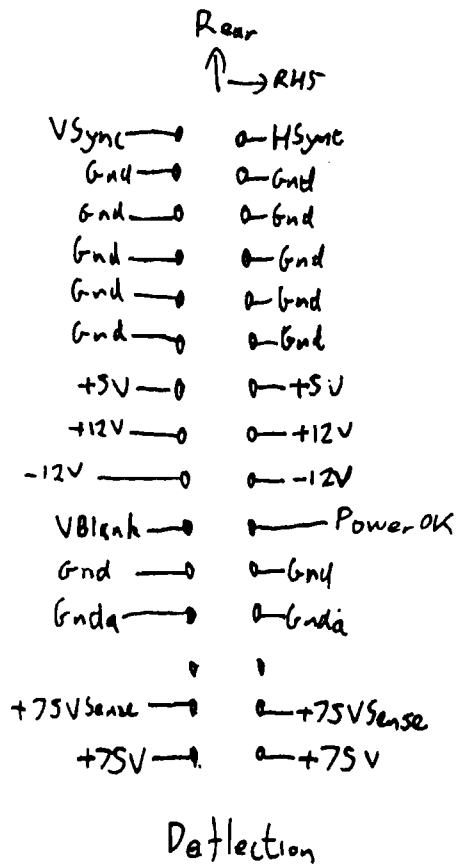
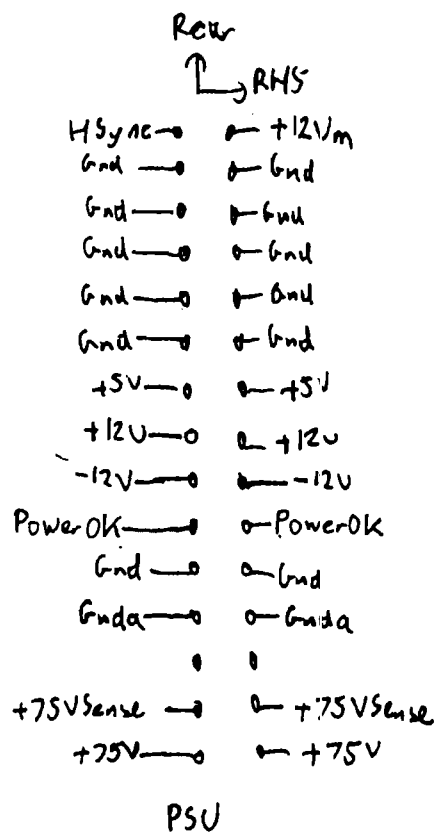


J5 (CRT Base)



CRT Pin numbers

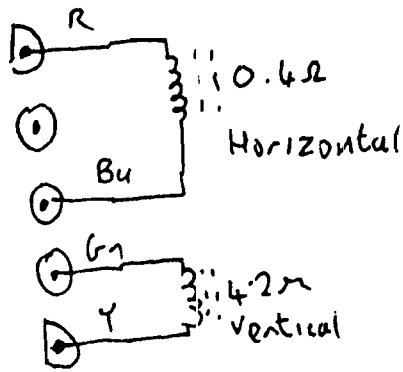
HP9836C Monitor



Motherboard Connectors

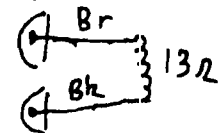
HP9836C Monitor

Front
↑



Deflection/JV
(Yoke)

Front
↑

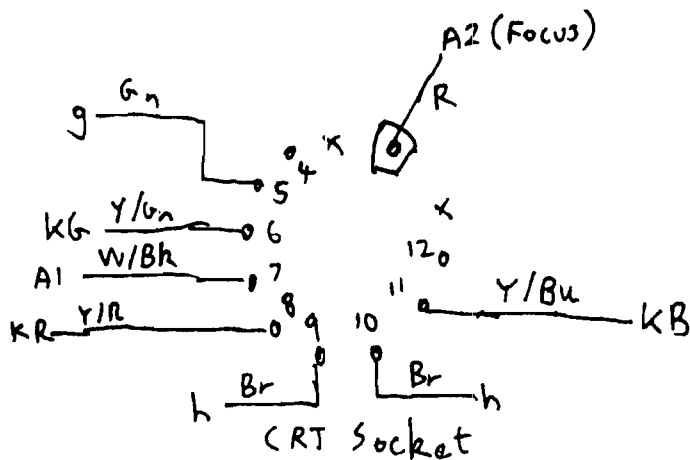


PSU/J3
(Degauss)

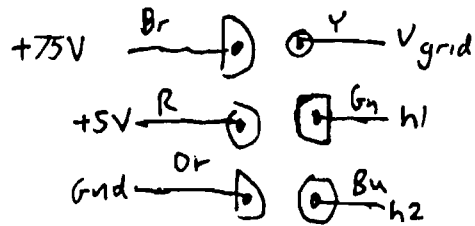
Front



PSU/J2
(Fan)

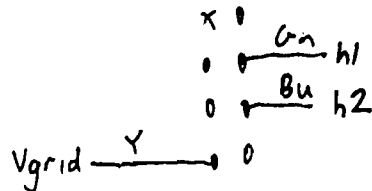
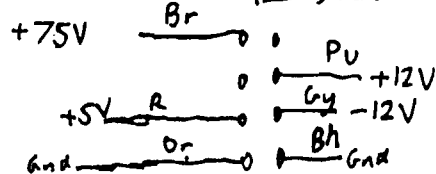


Top
↑ Front



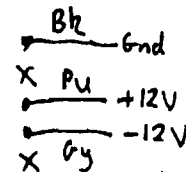
Deflection/JVid
(Video Power)

Top
↑ RHS

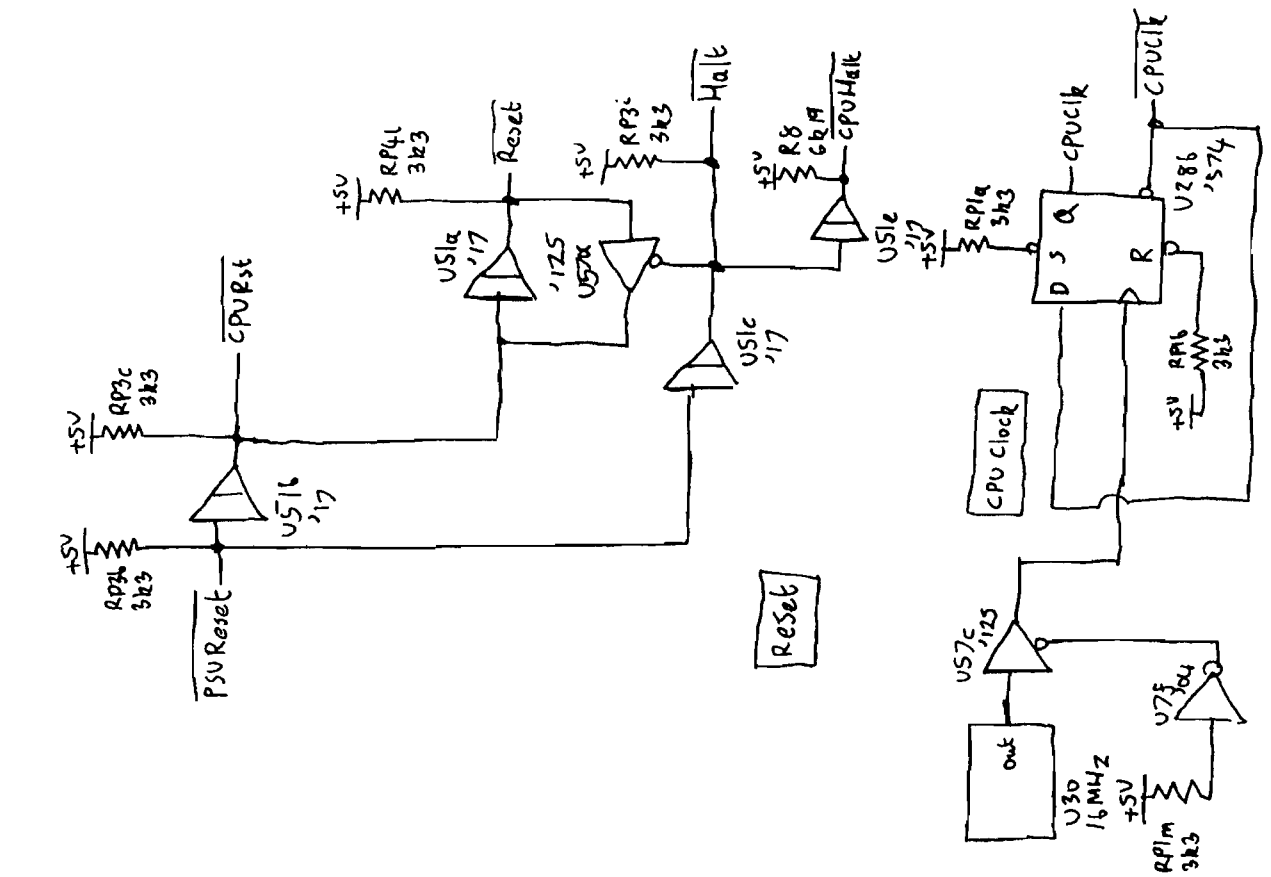
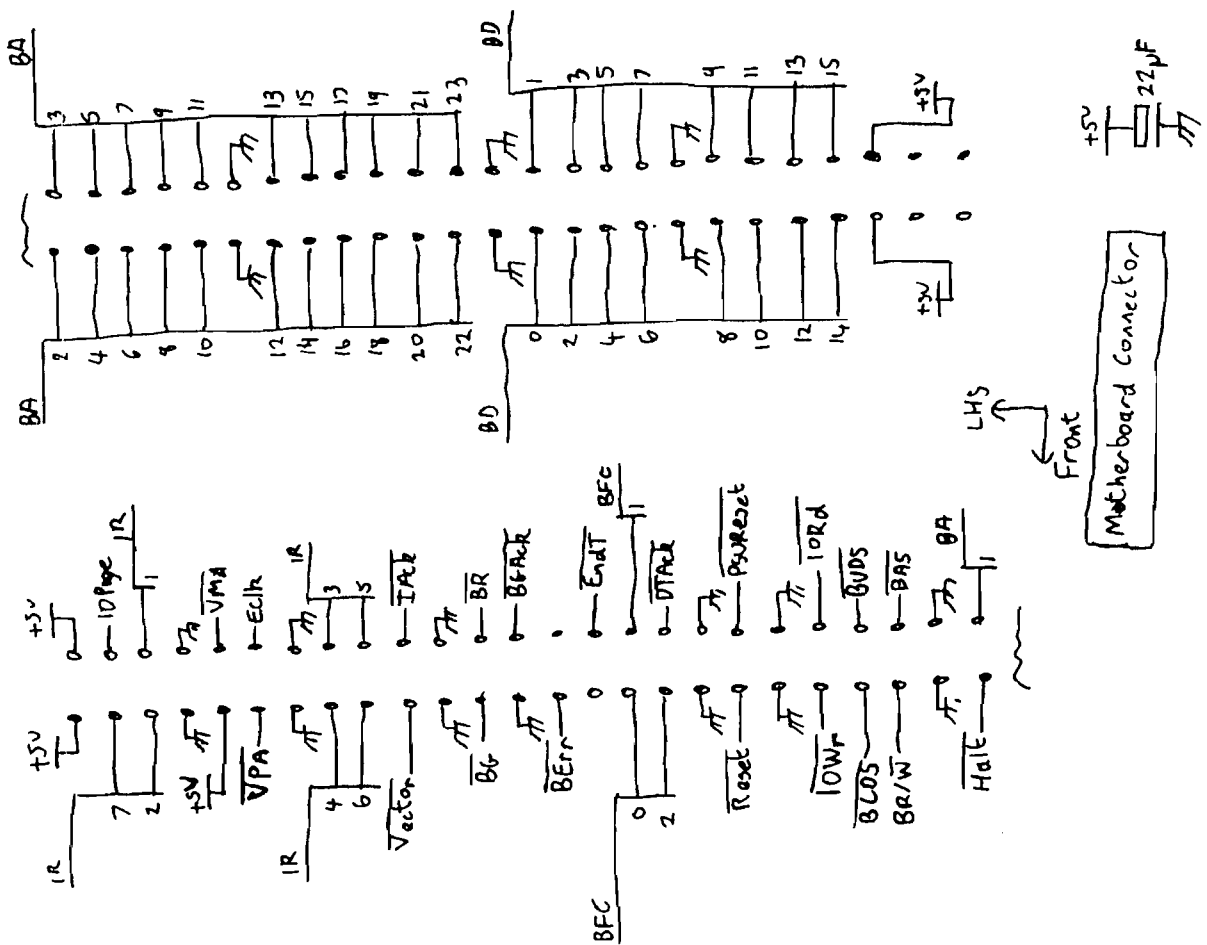


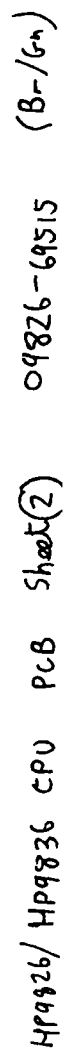
Video/P2
(Power)

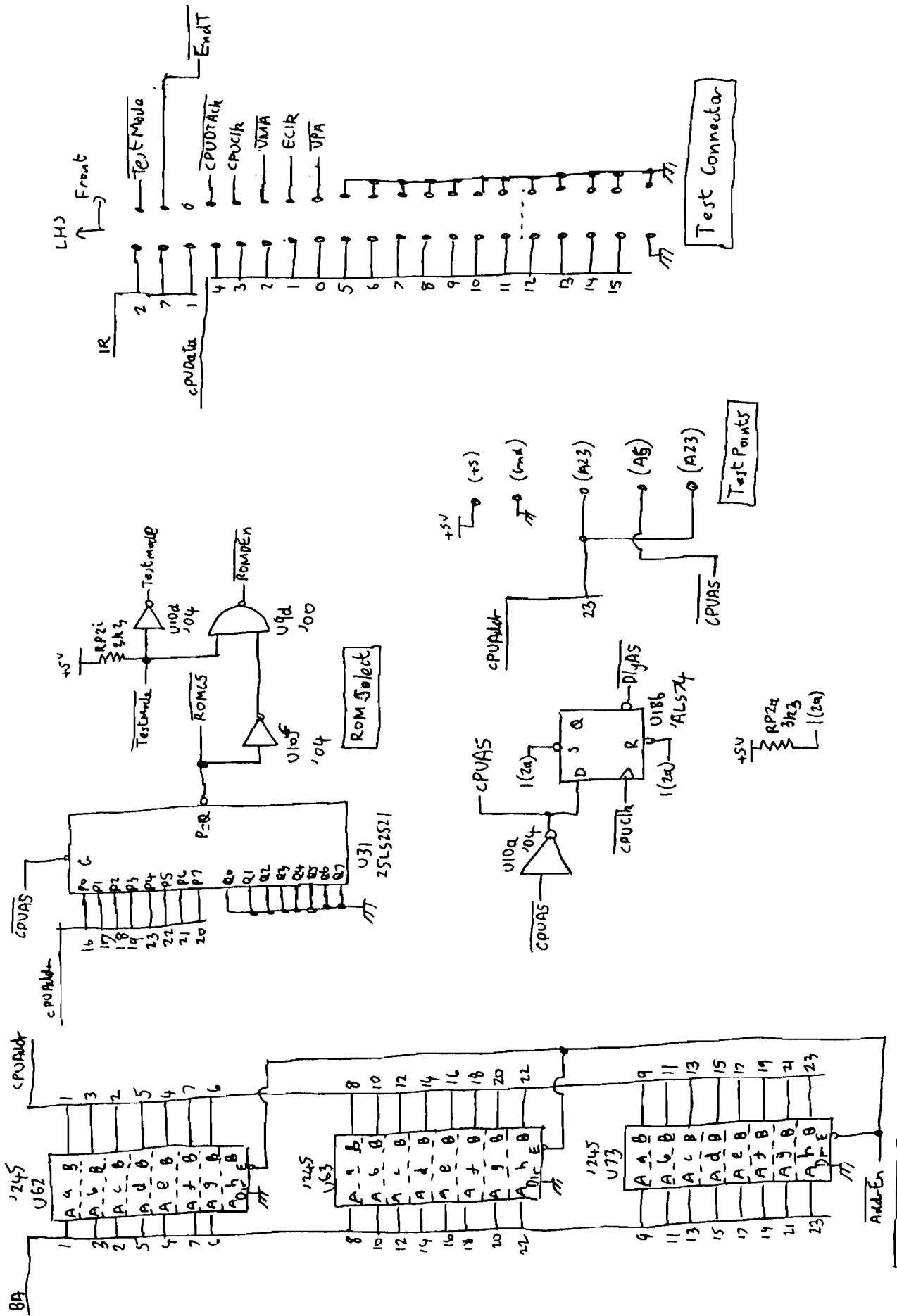
Rear

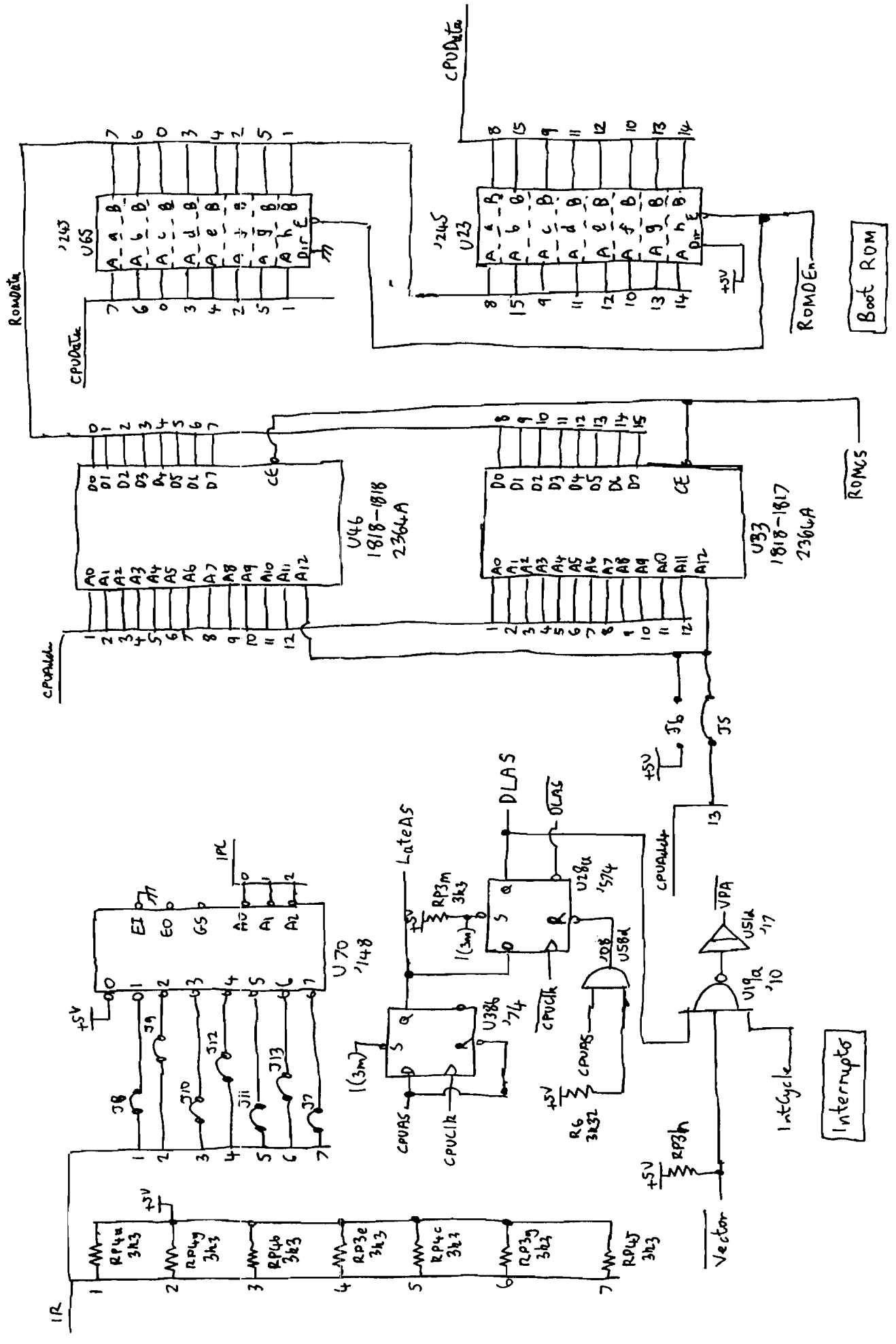


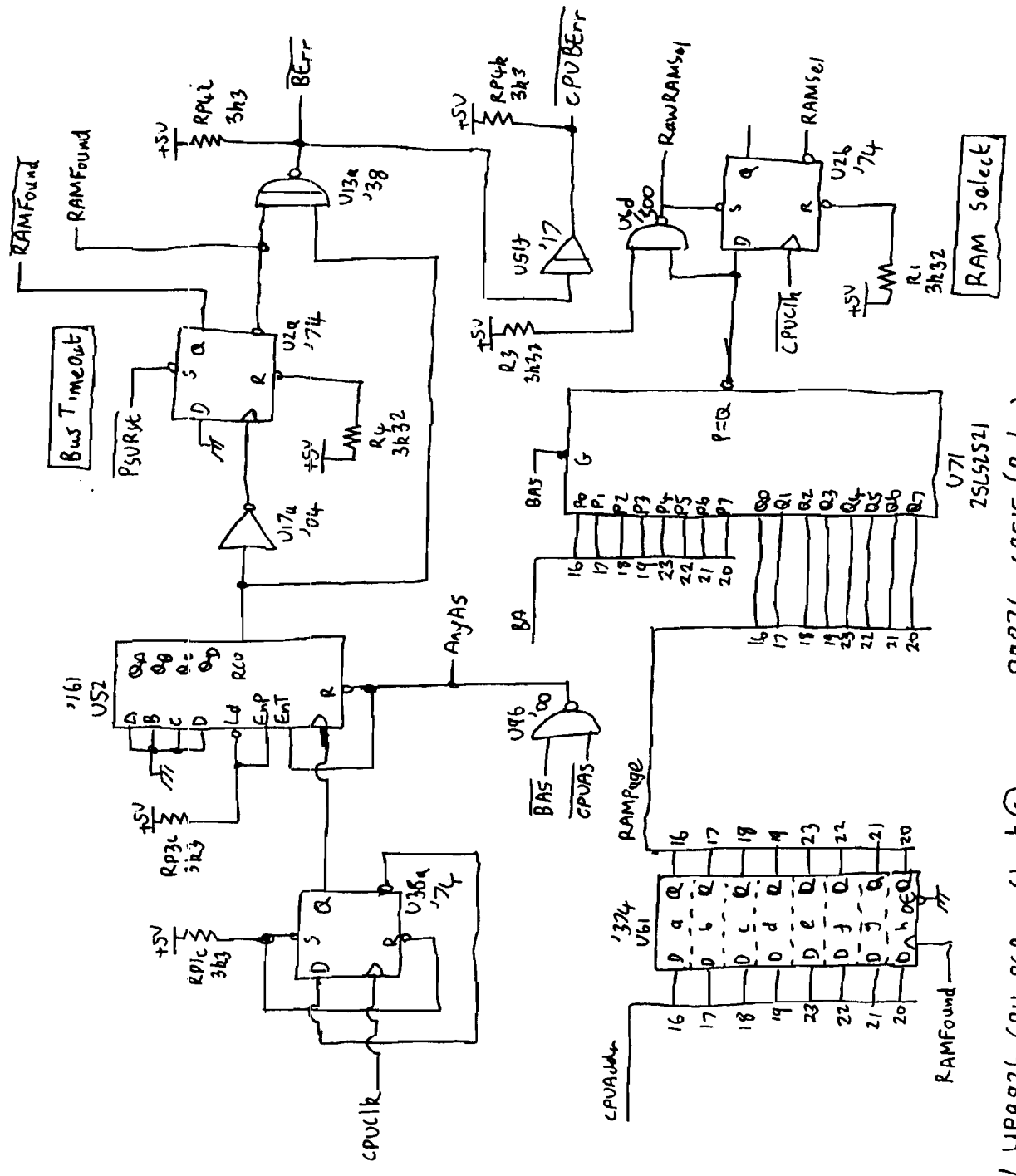
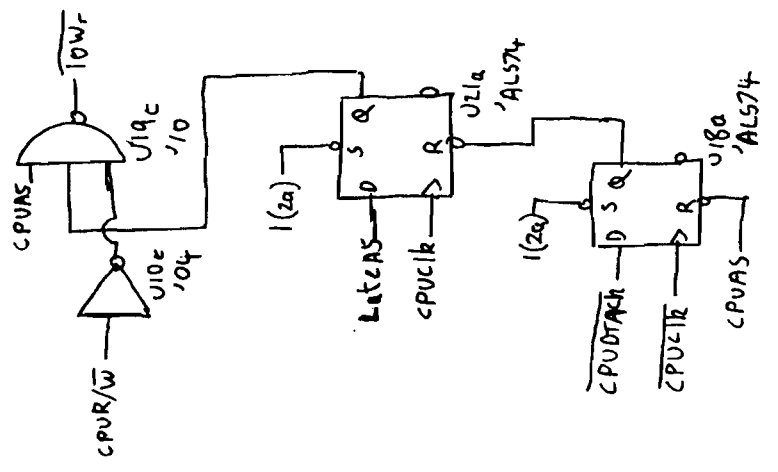
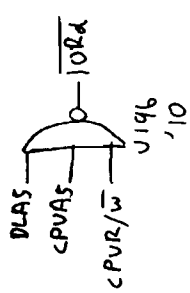
Mother-board/P3
(Video Power)

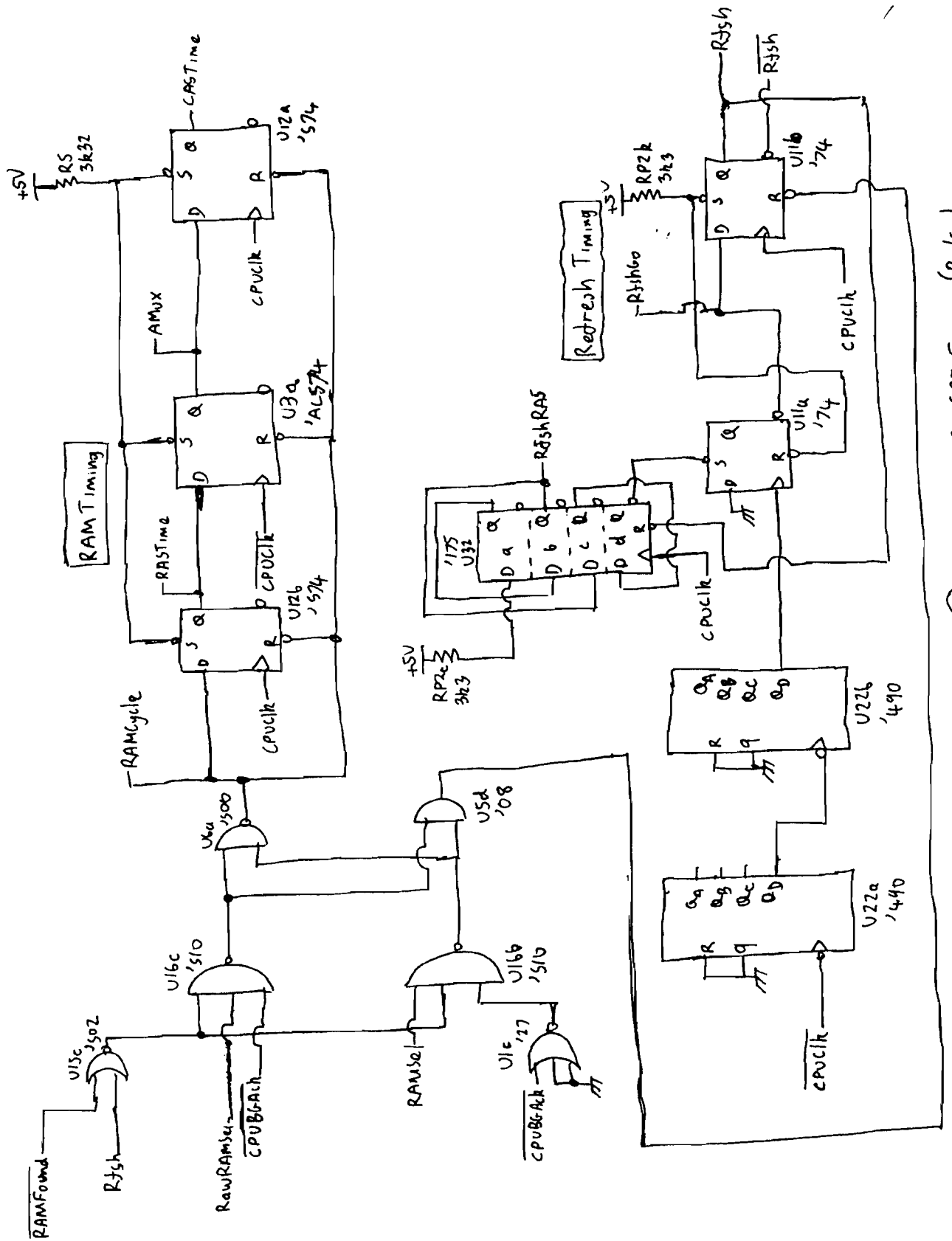










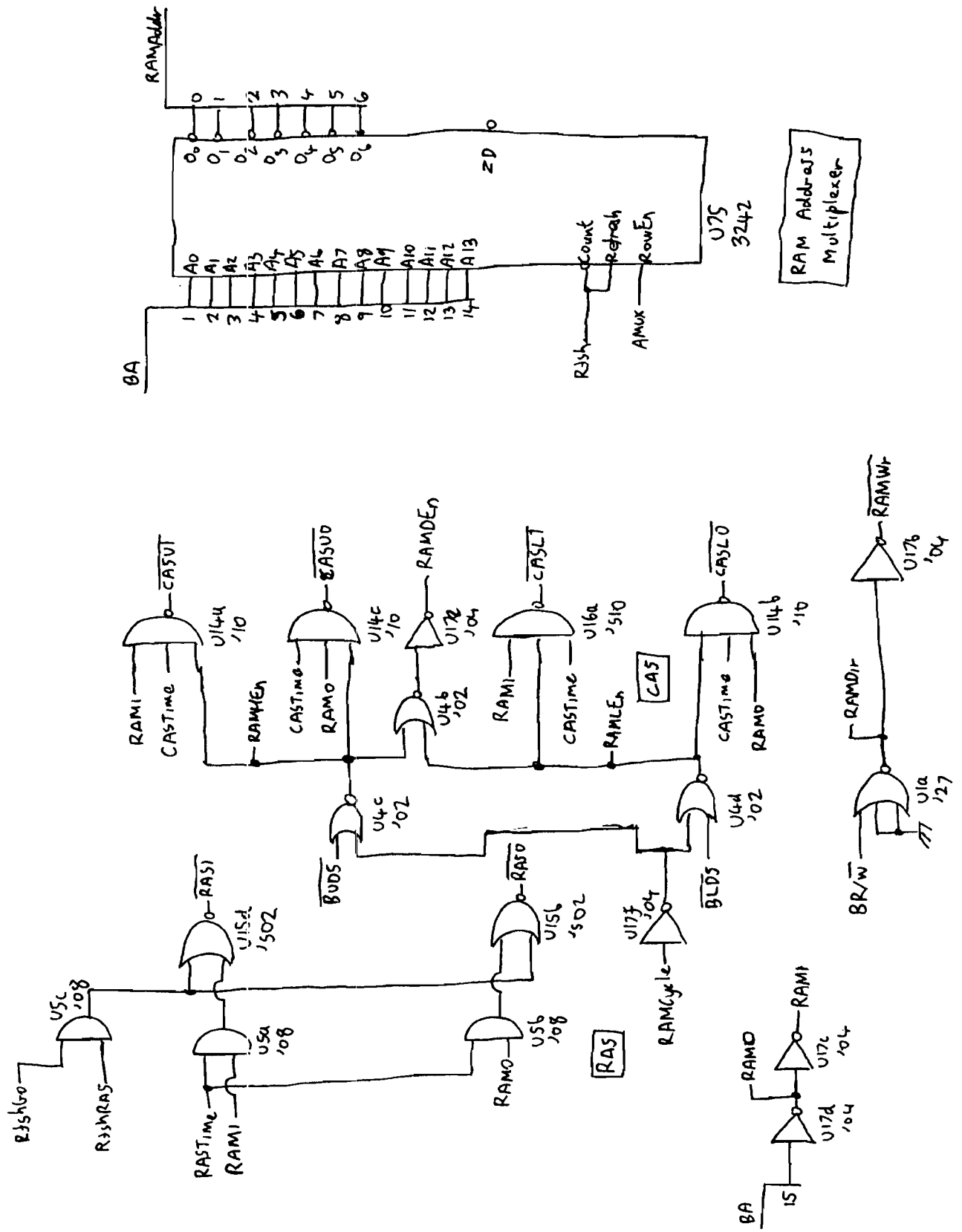


(B/GN)

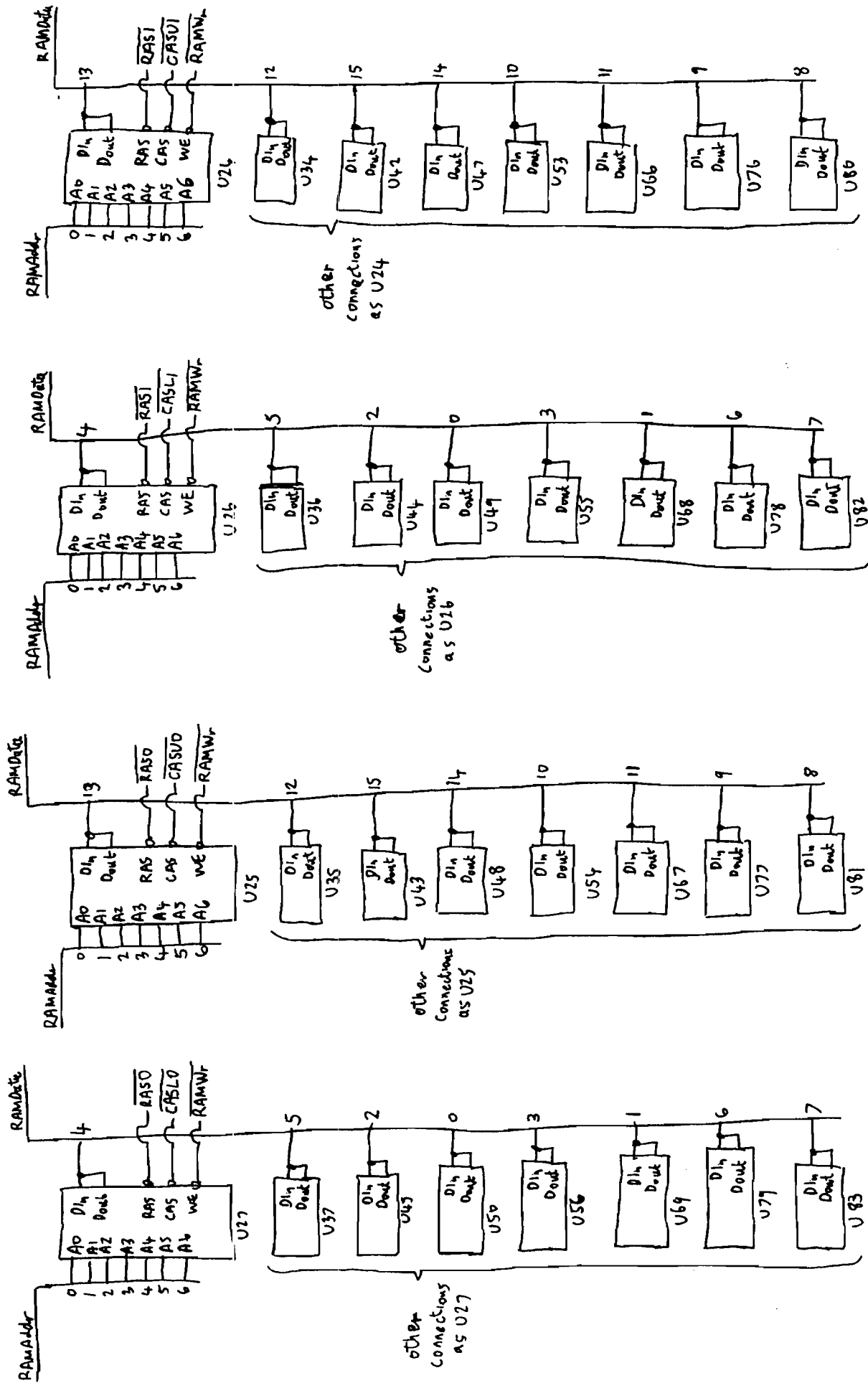
09826-69515

(7)

HP9976/HP99836 CPU PCB Sheet

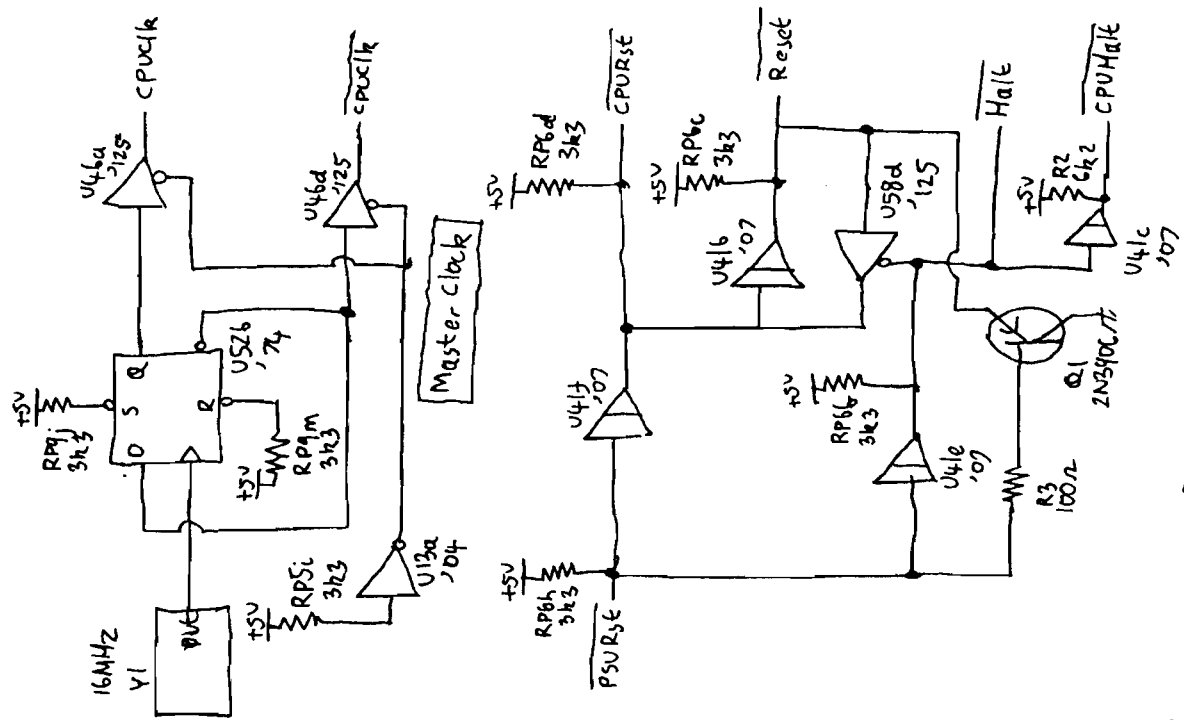
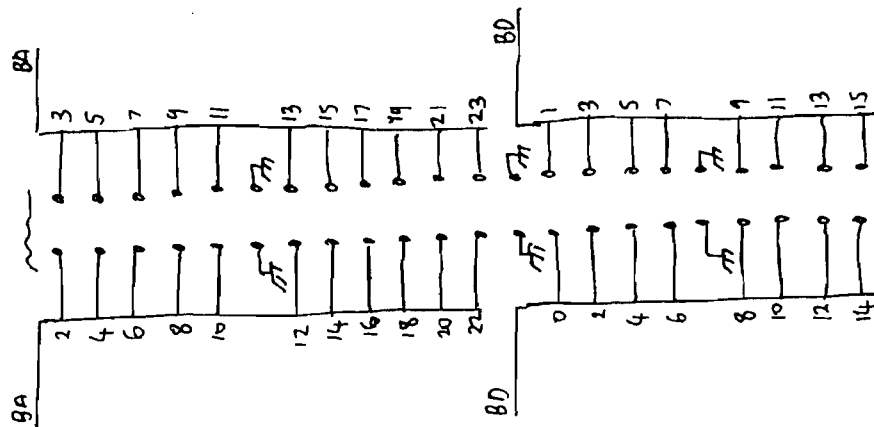
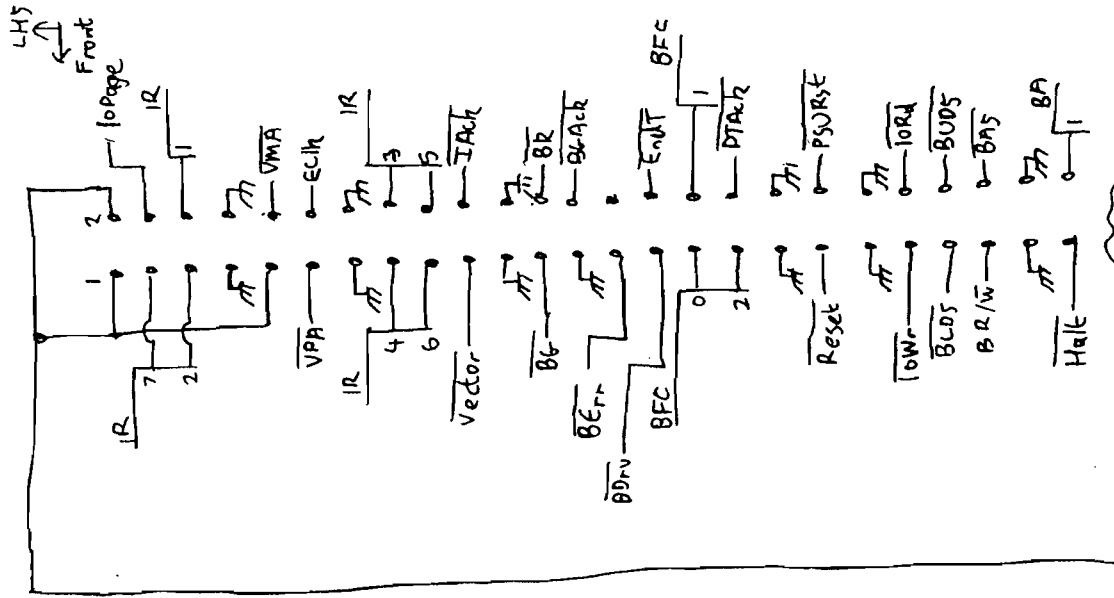


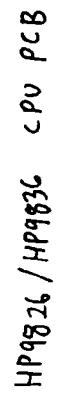




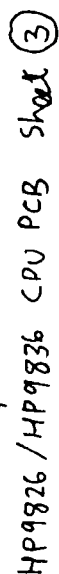
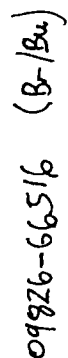
RAM

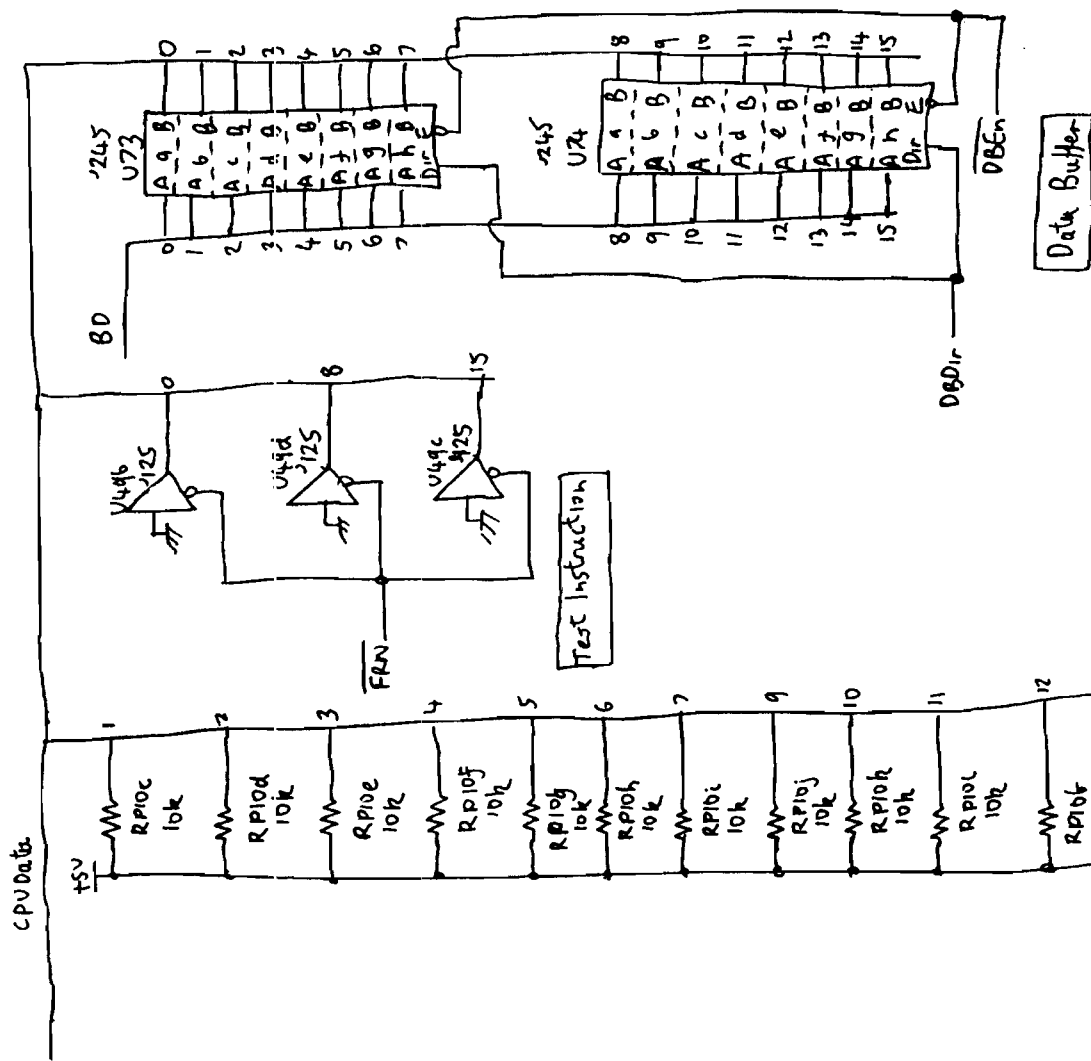
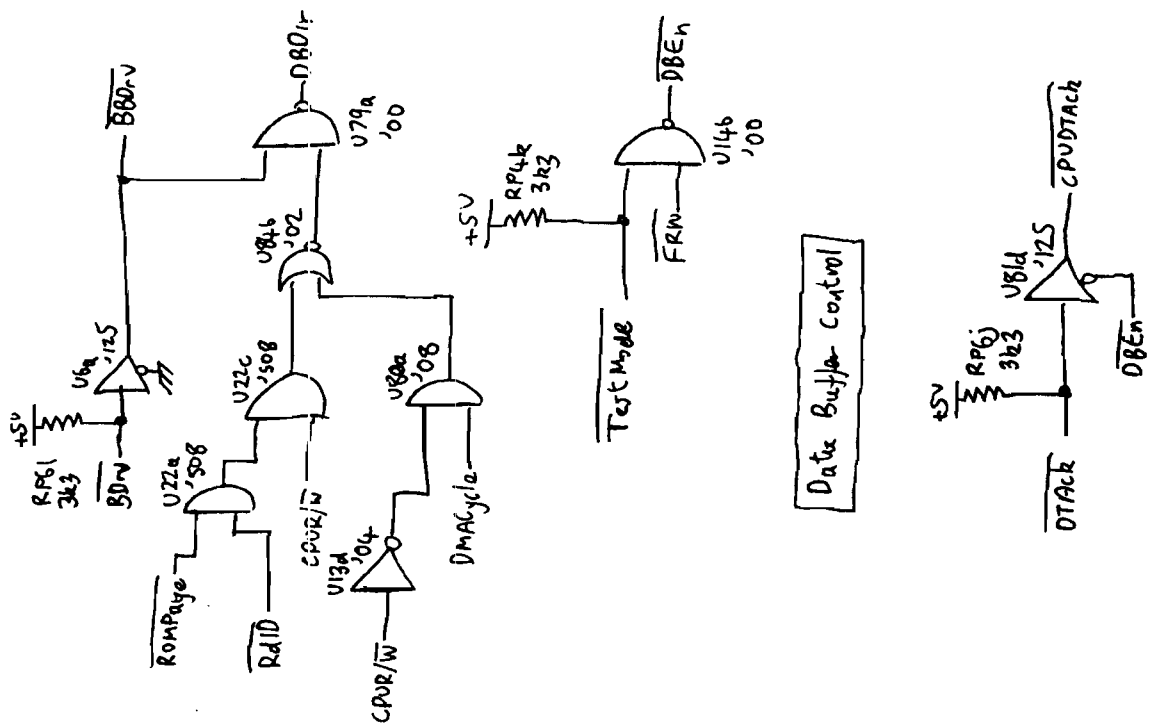
All RAMs: 4816

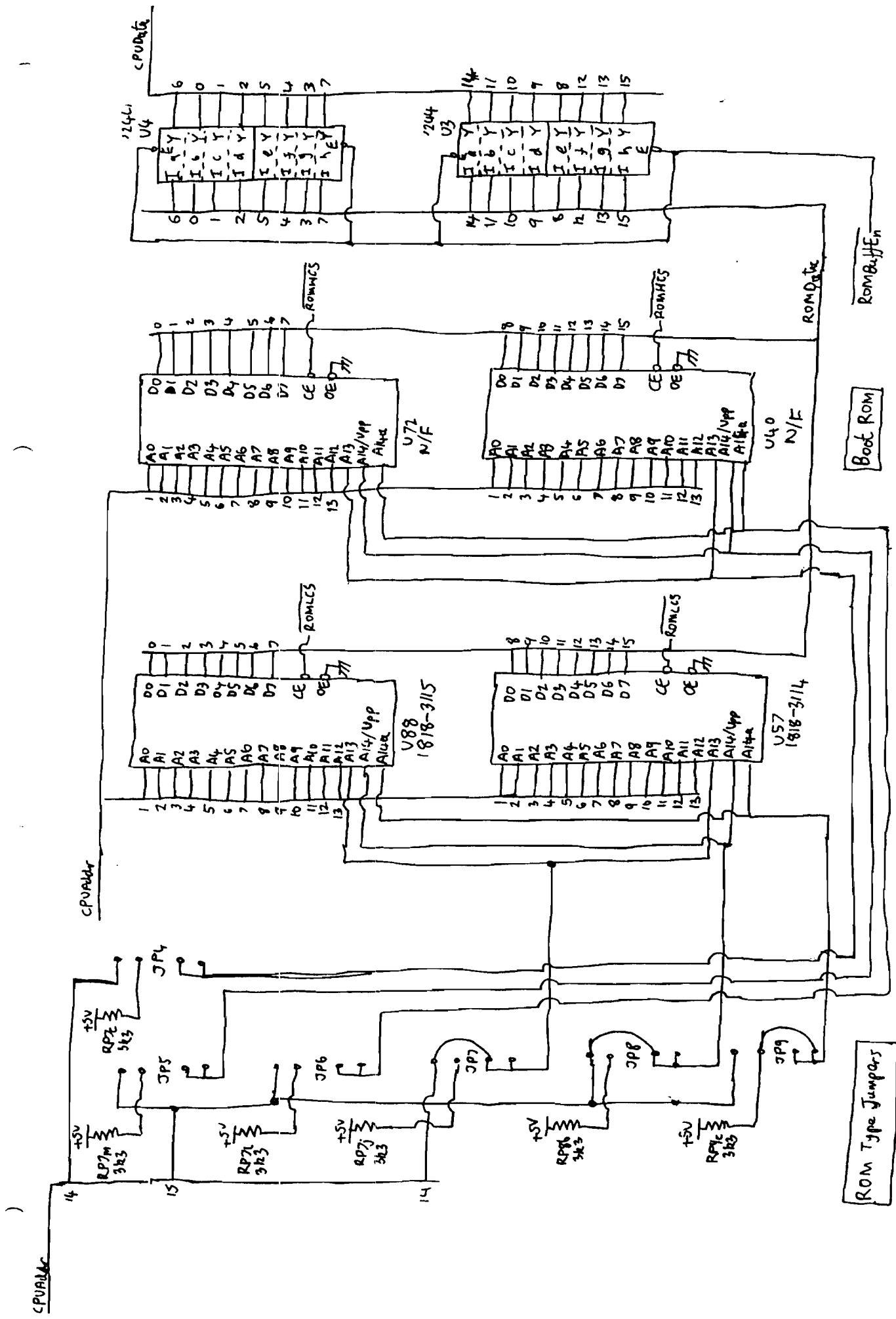


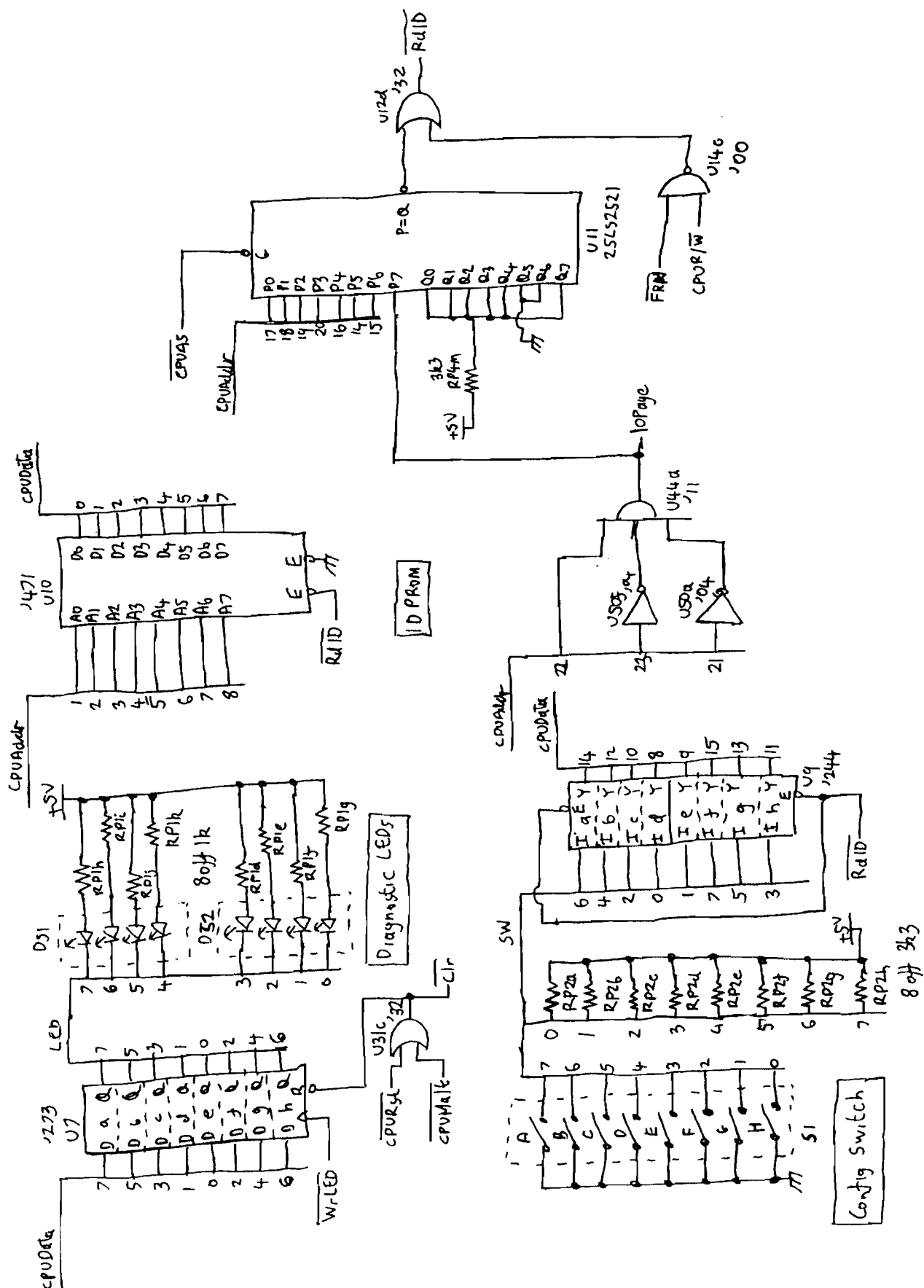


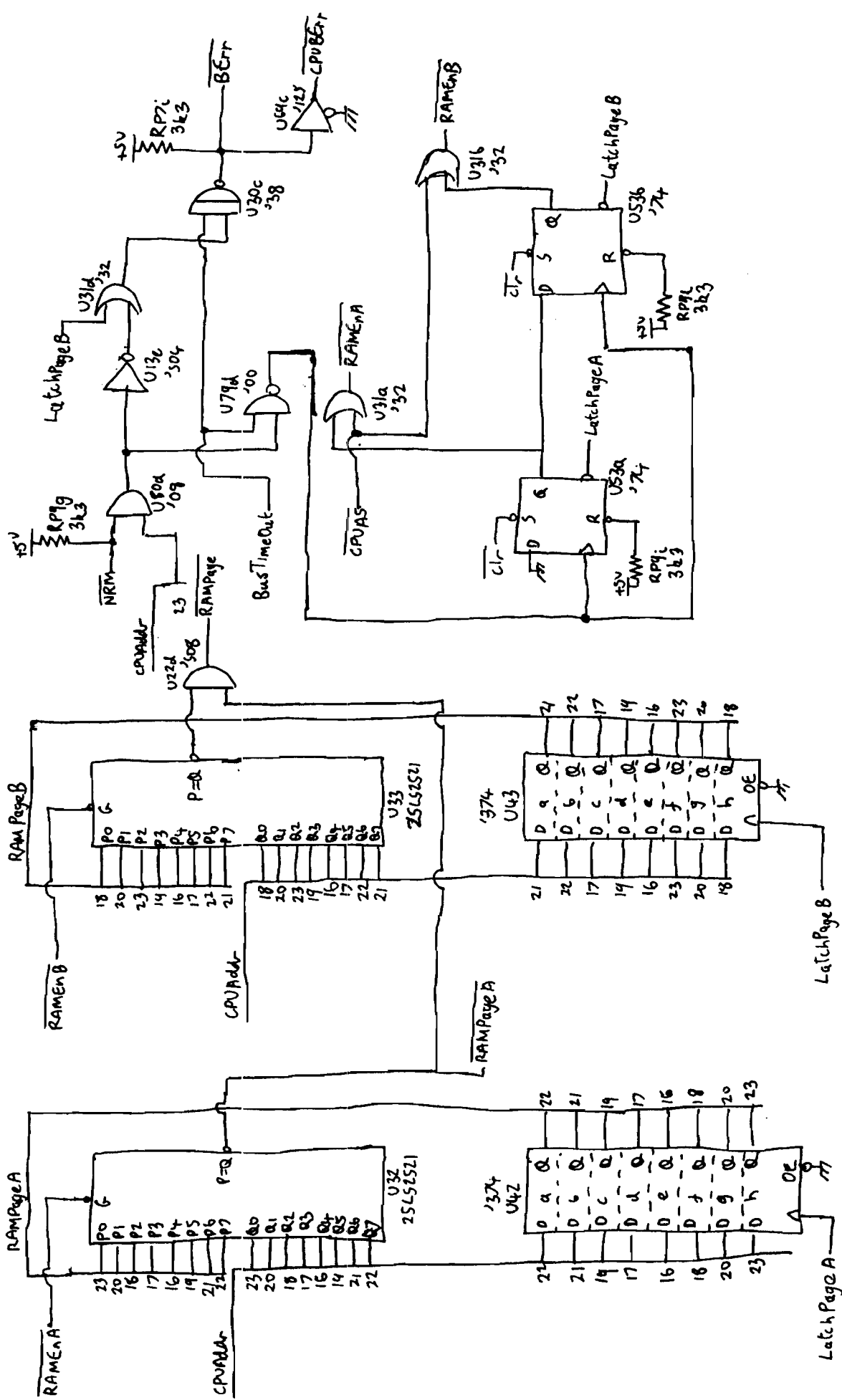
09826-66516 (B-13u)





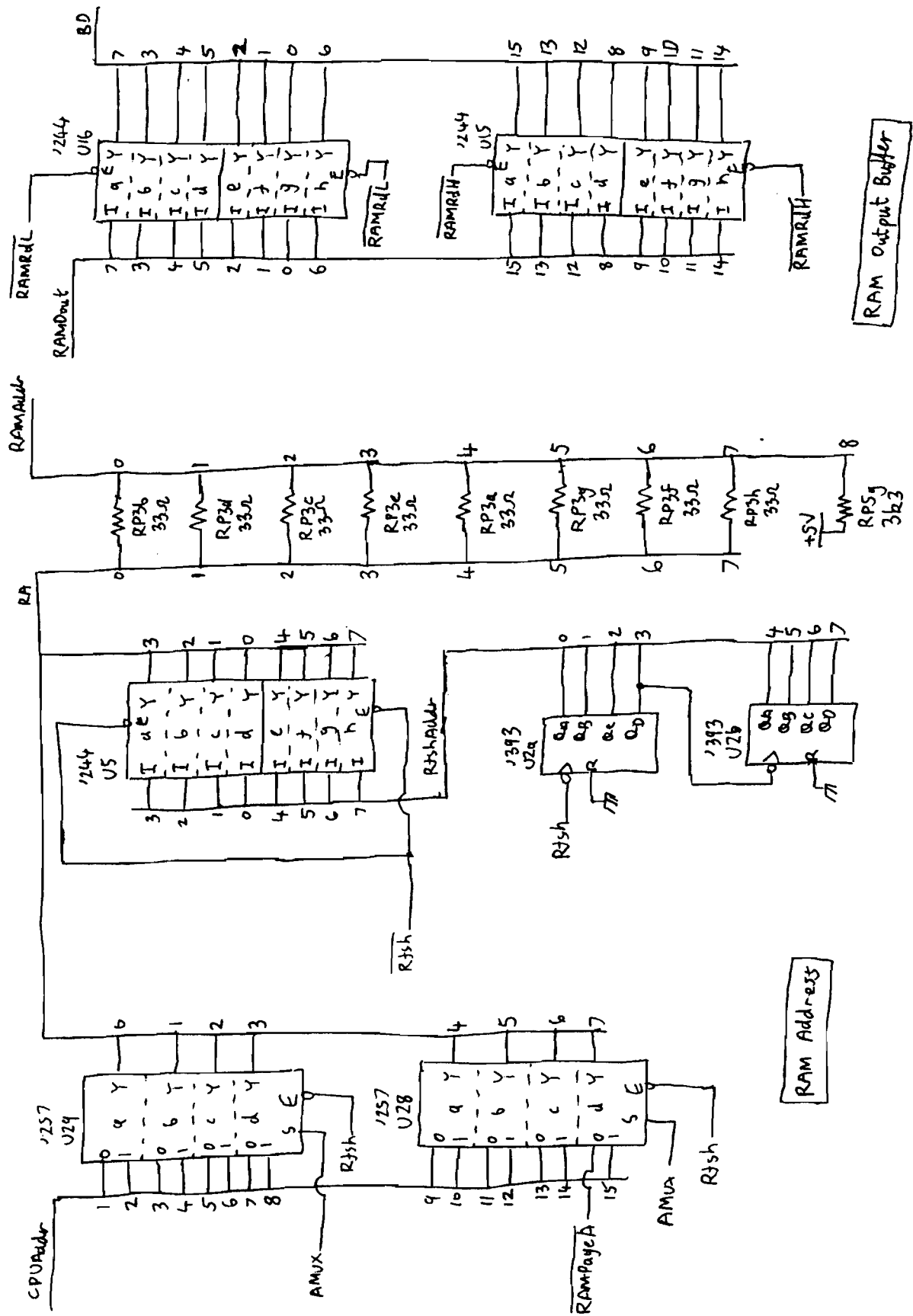






RAM Page Address



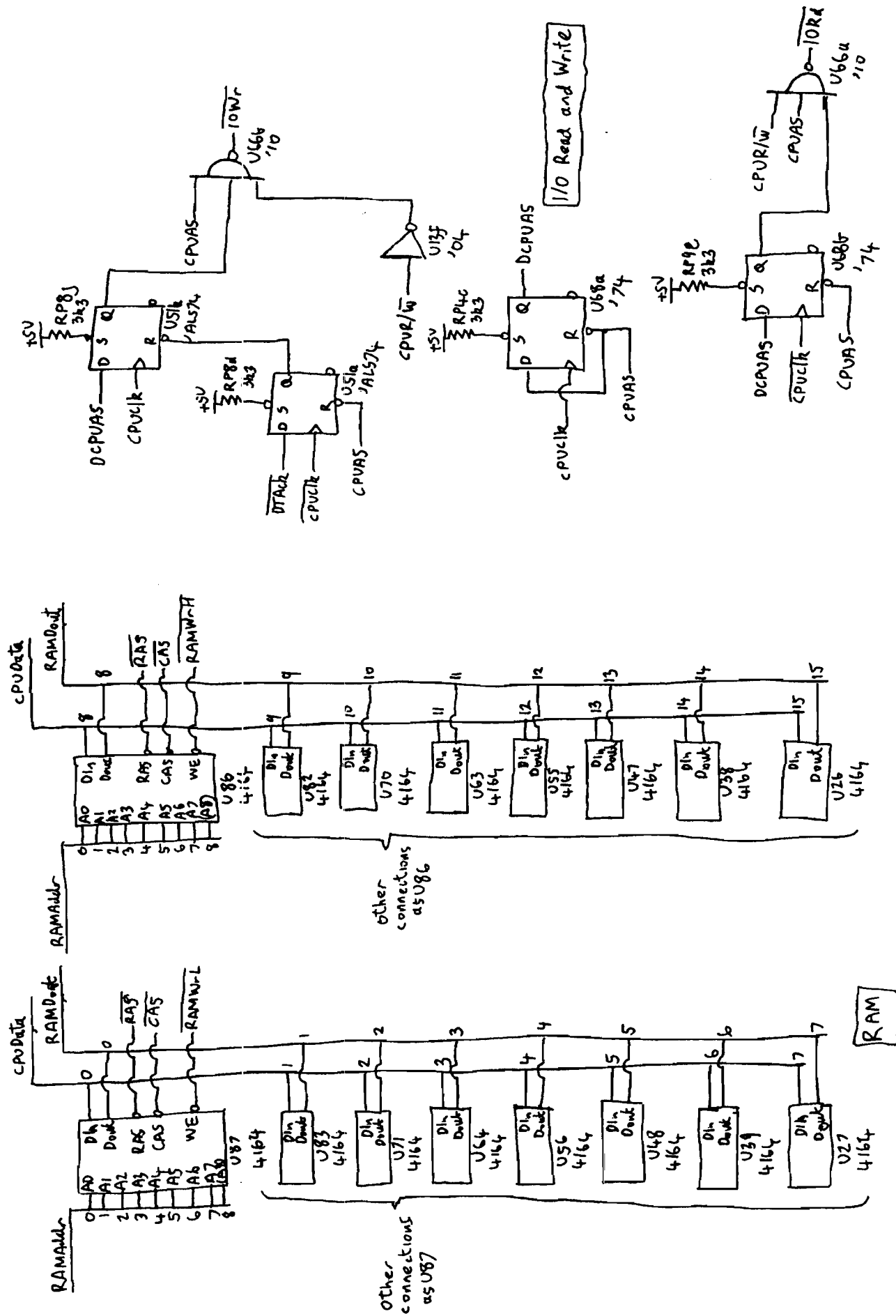


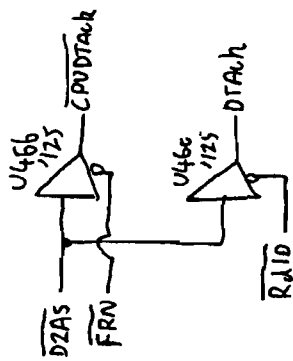
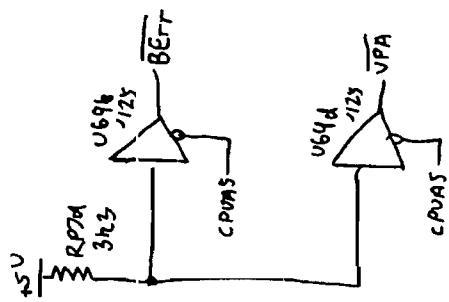
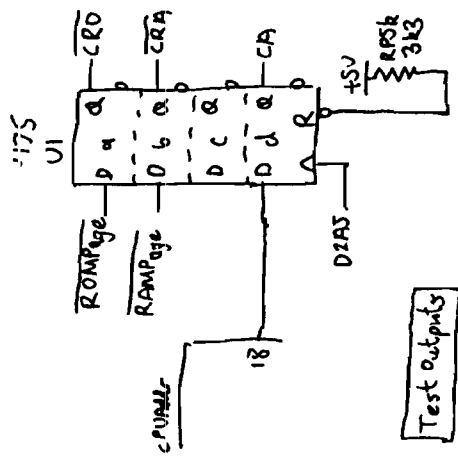
(B_r/B_n)

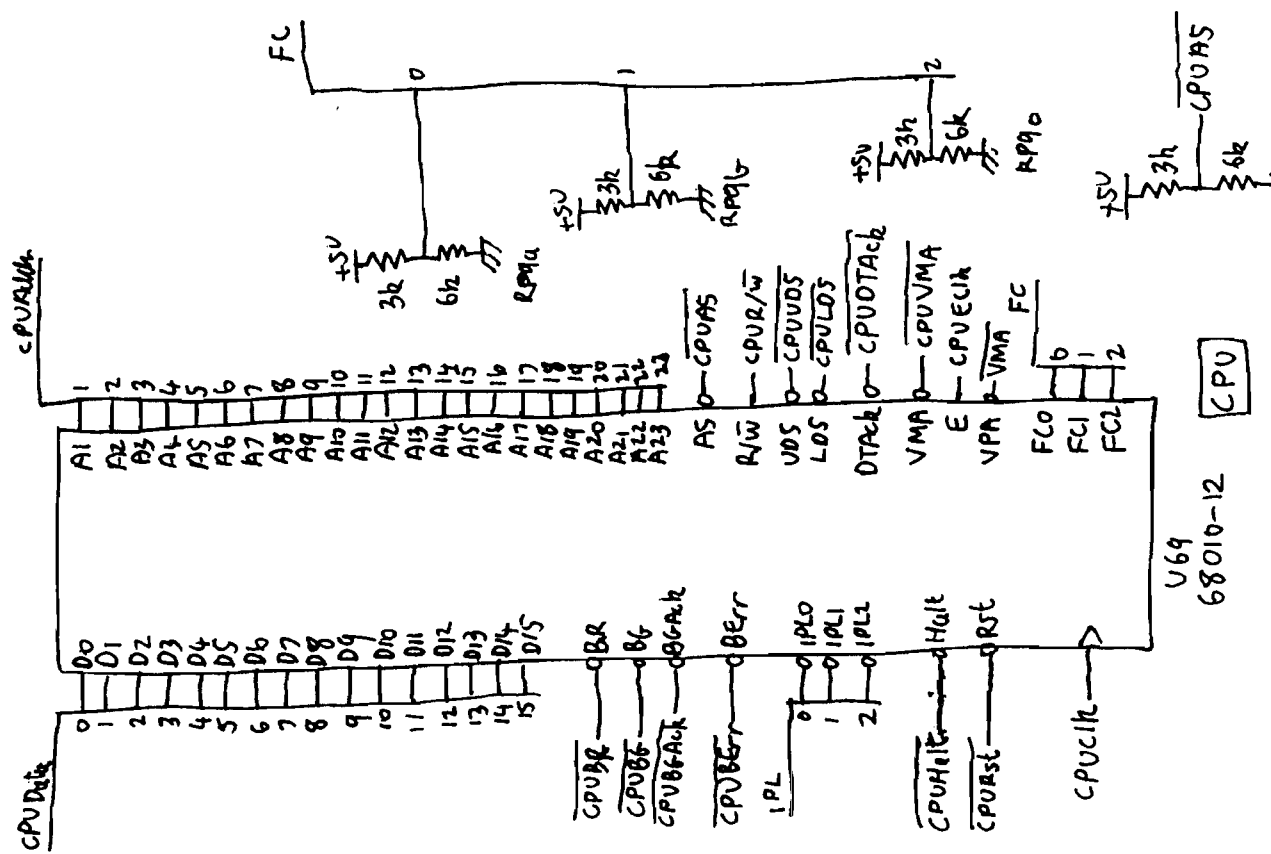
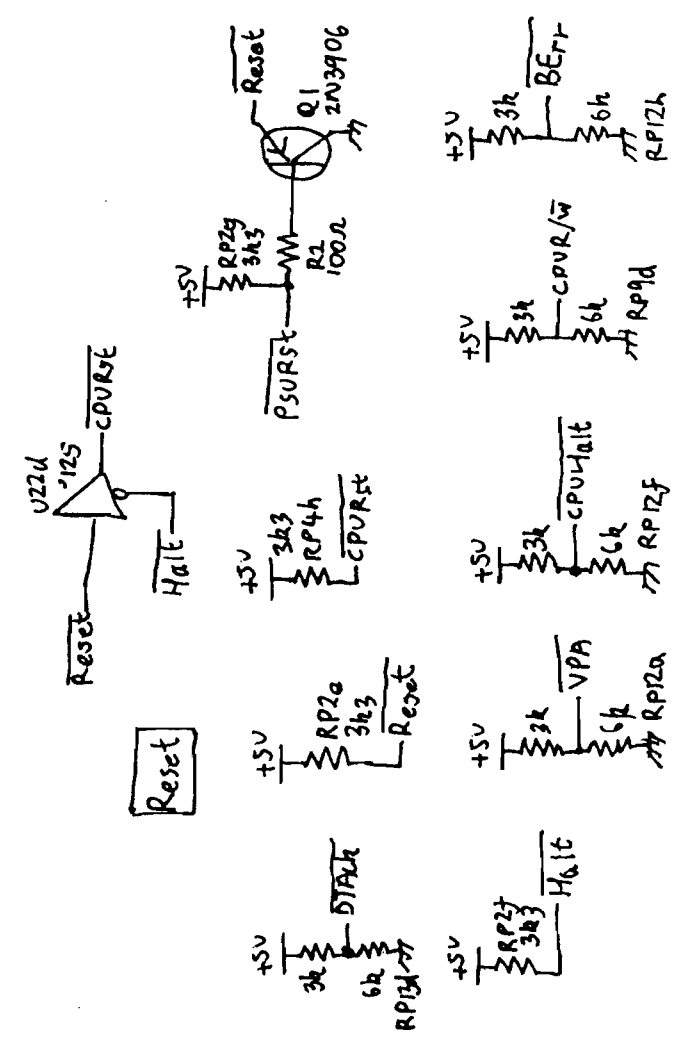
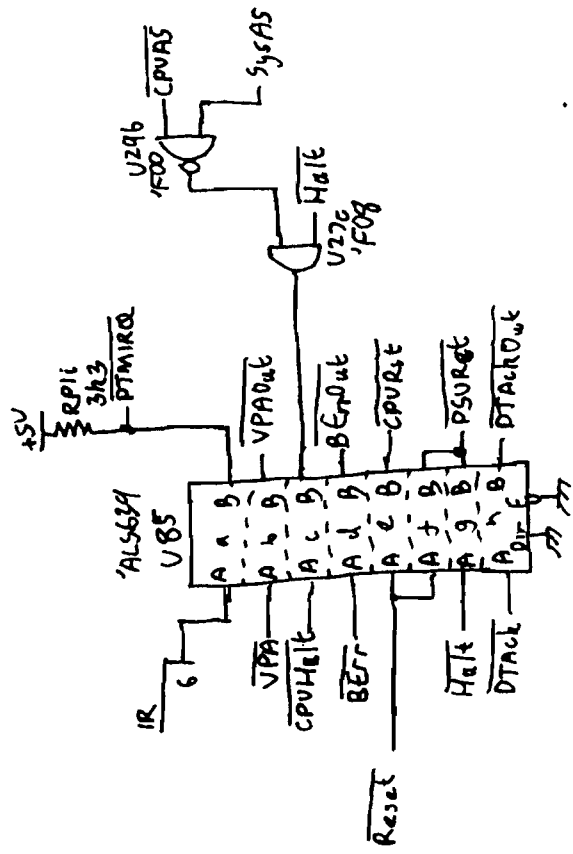
09826-66516

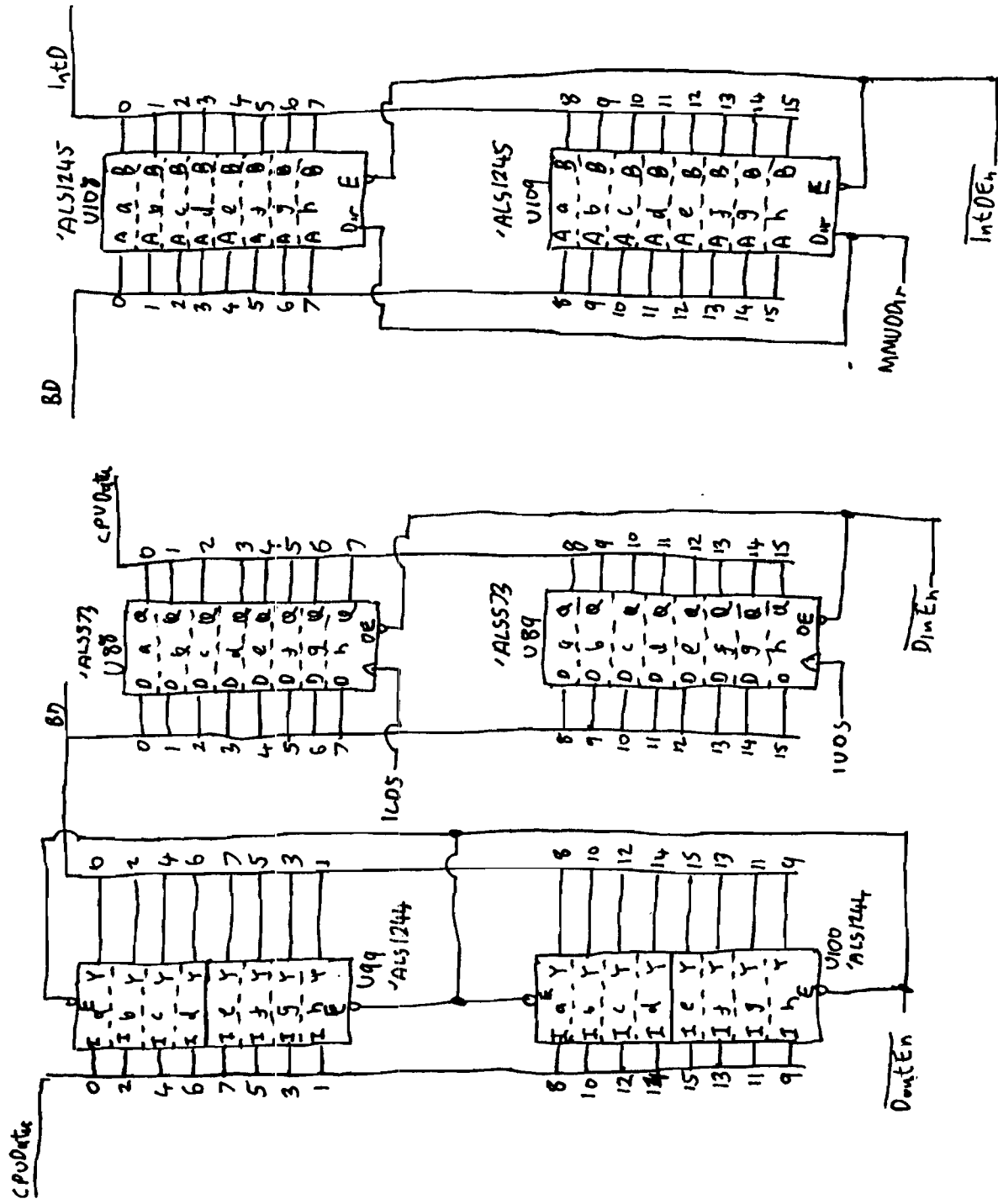
Sheet (11)

HP9826 / HP9836 CPU PCB

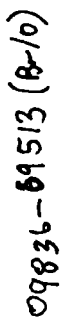


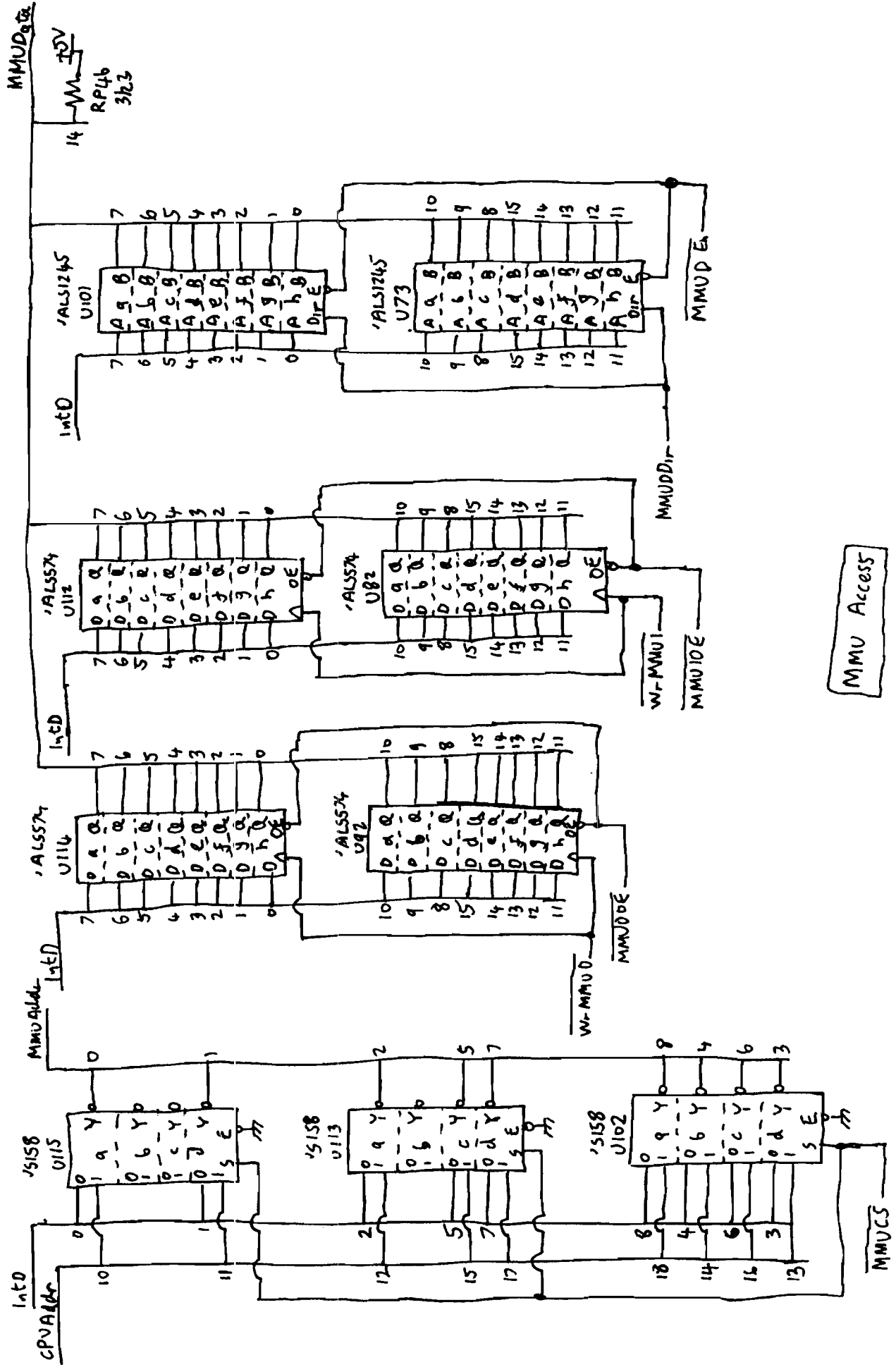


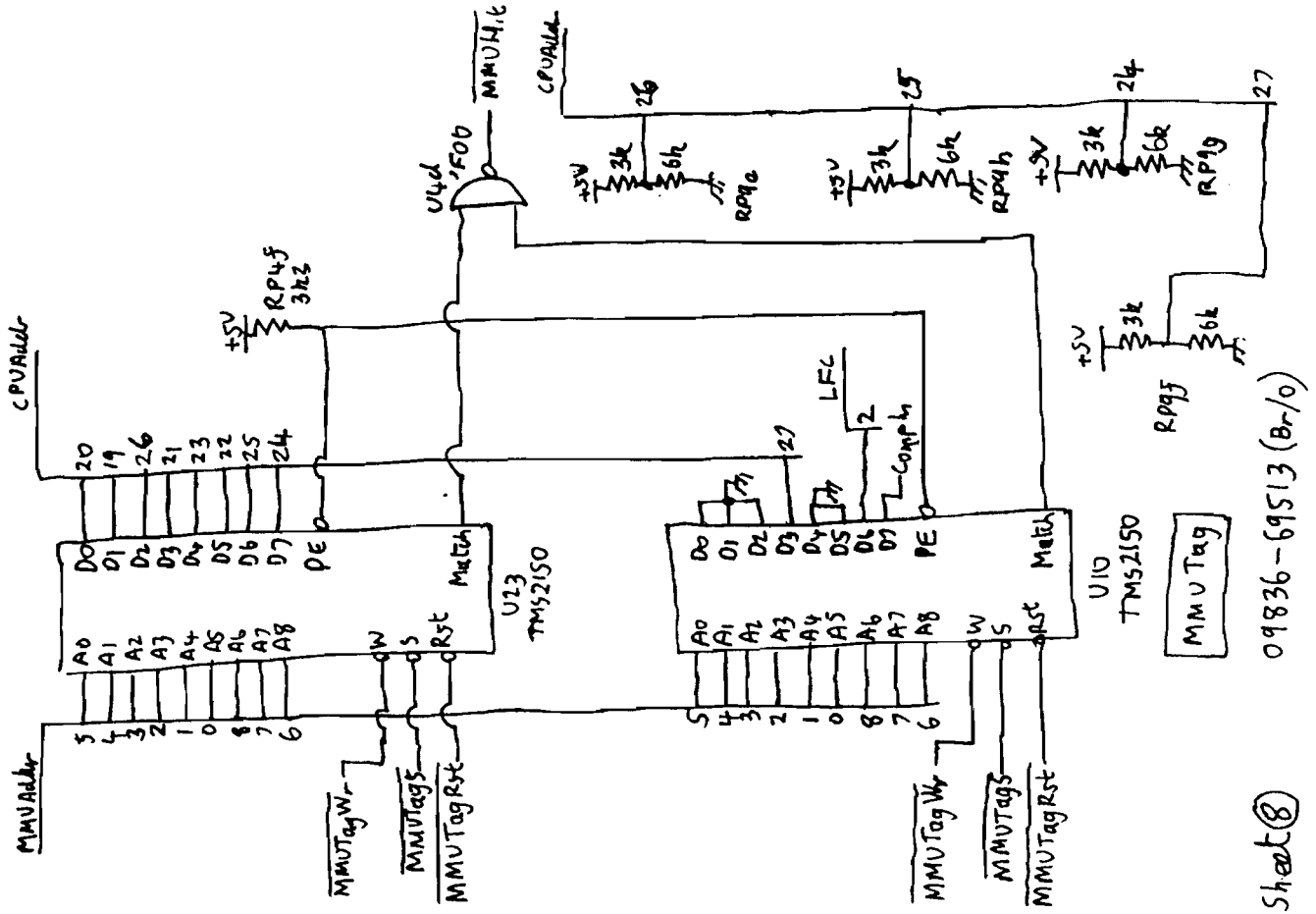
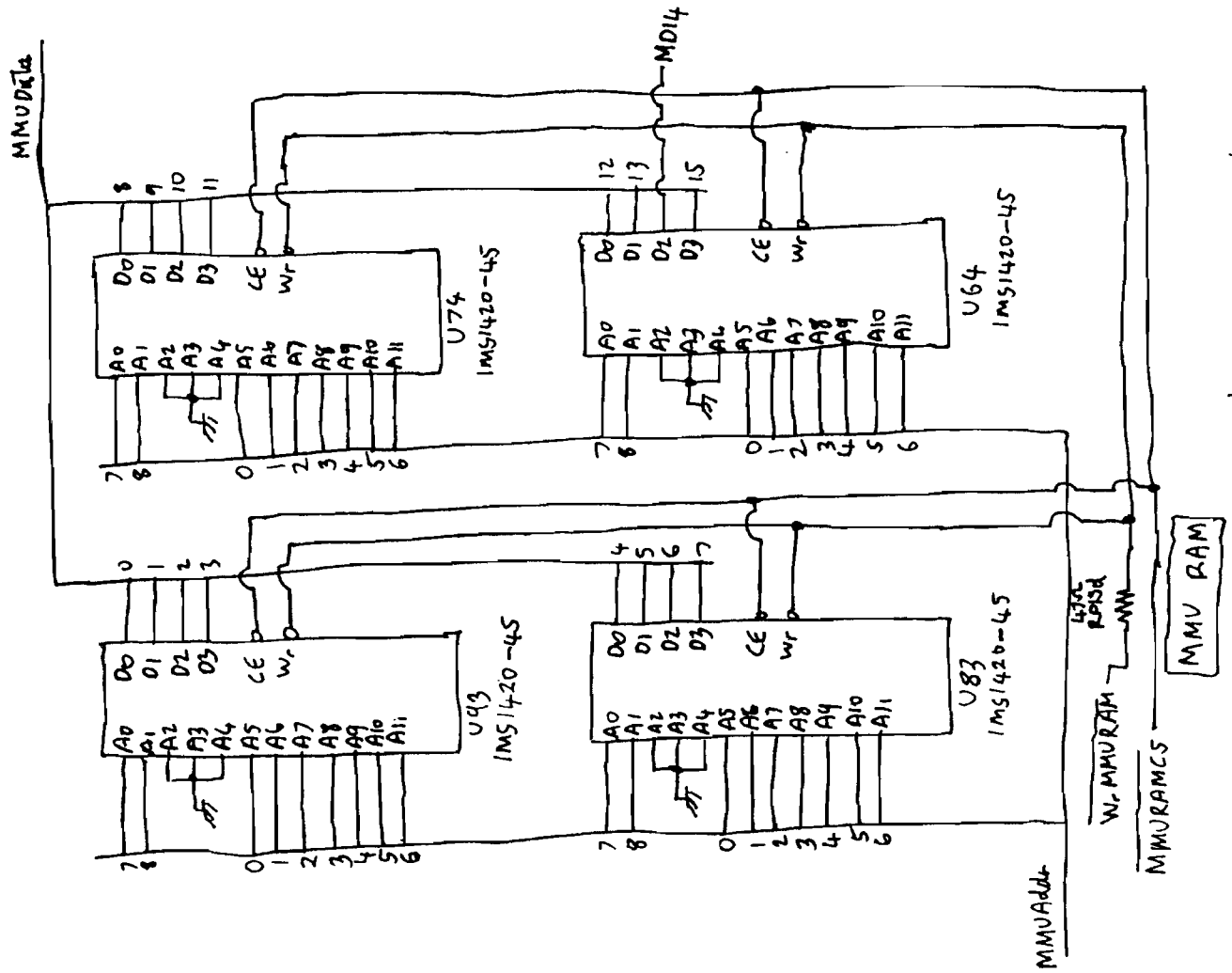




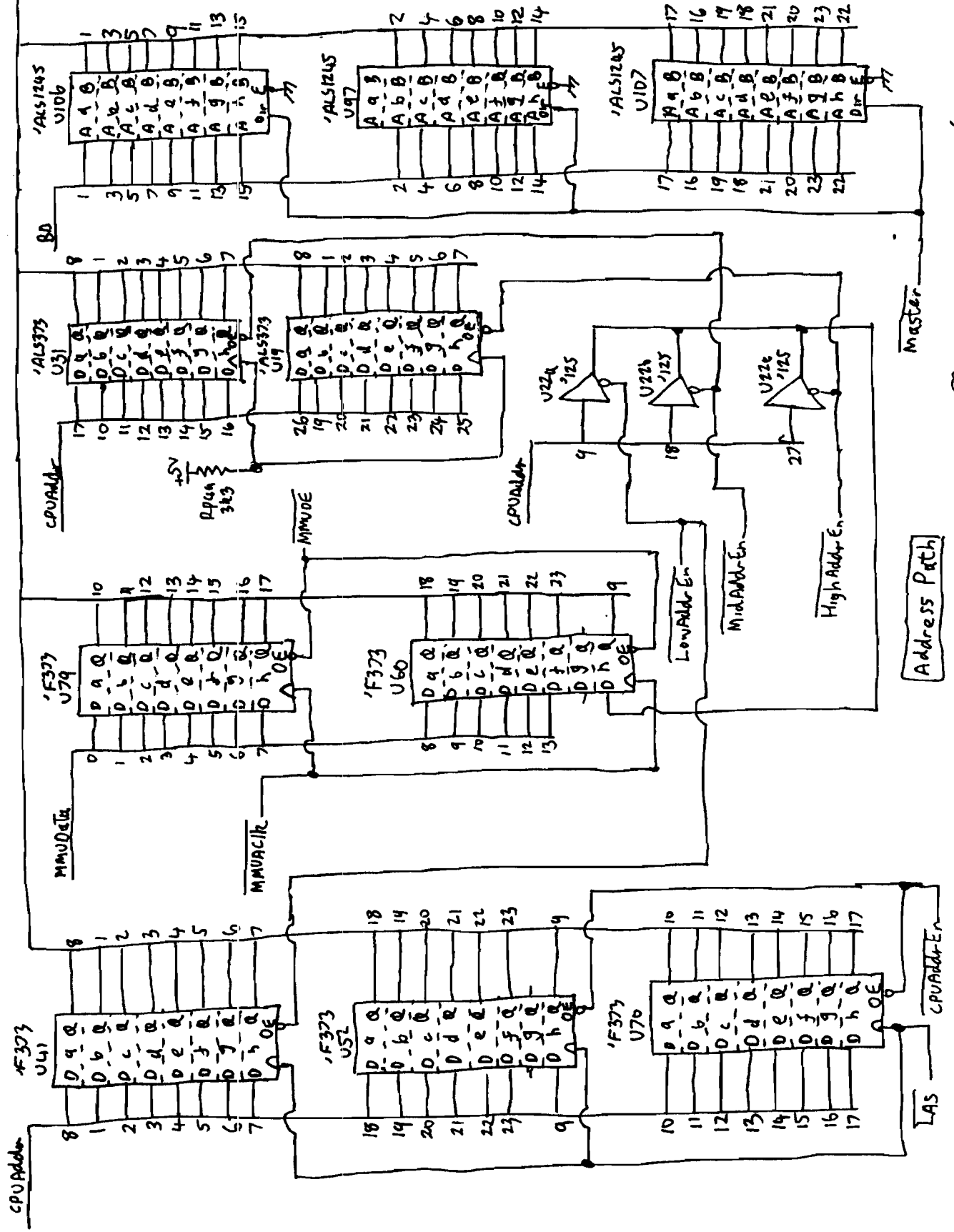
Data Buffers

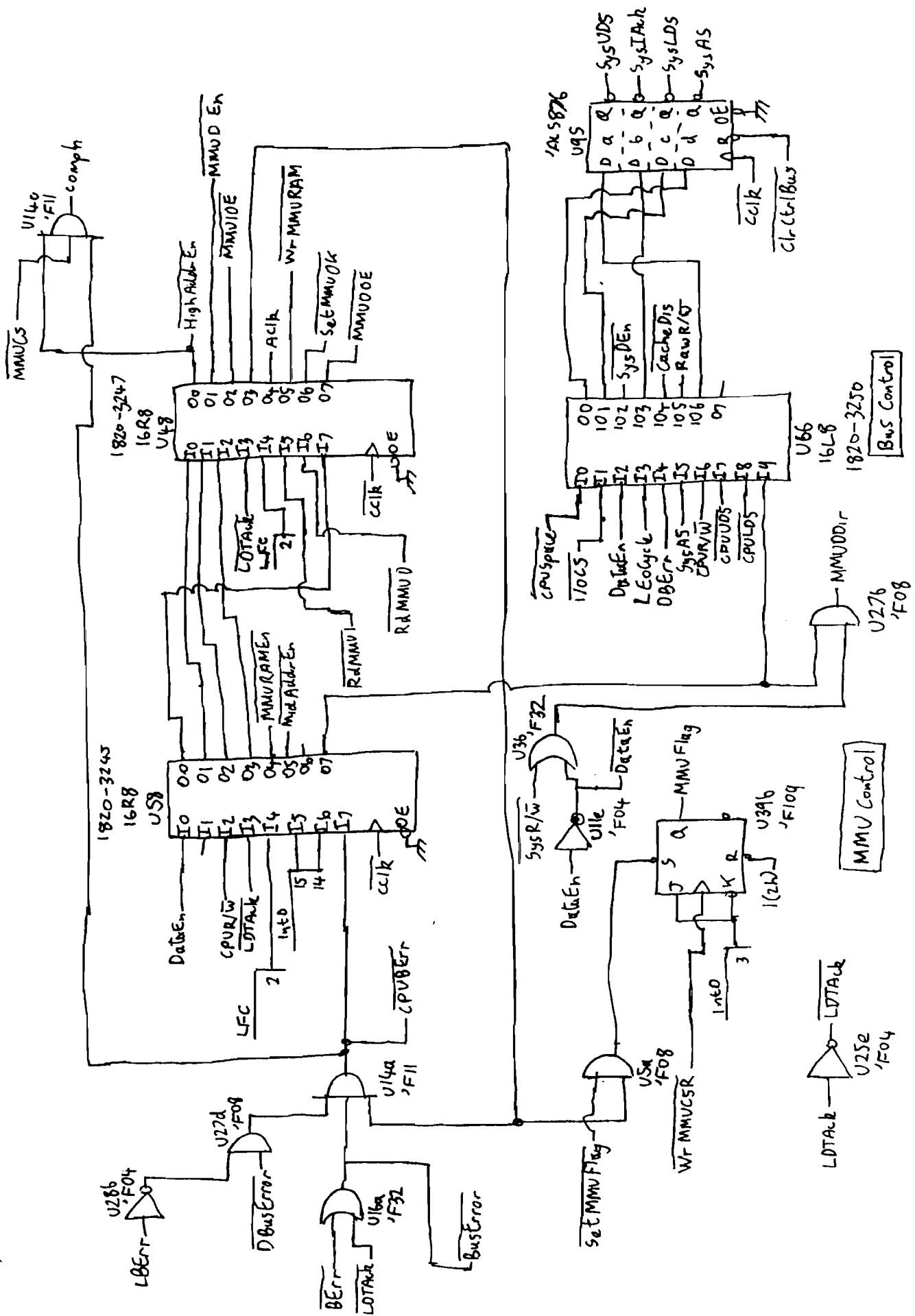


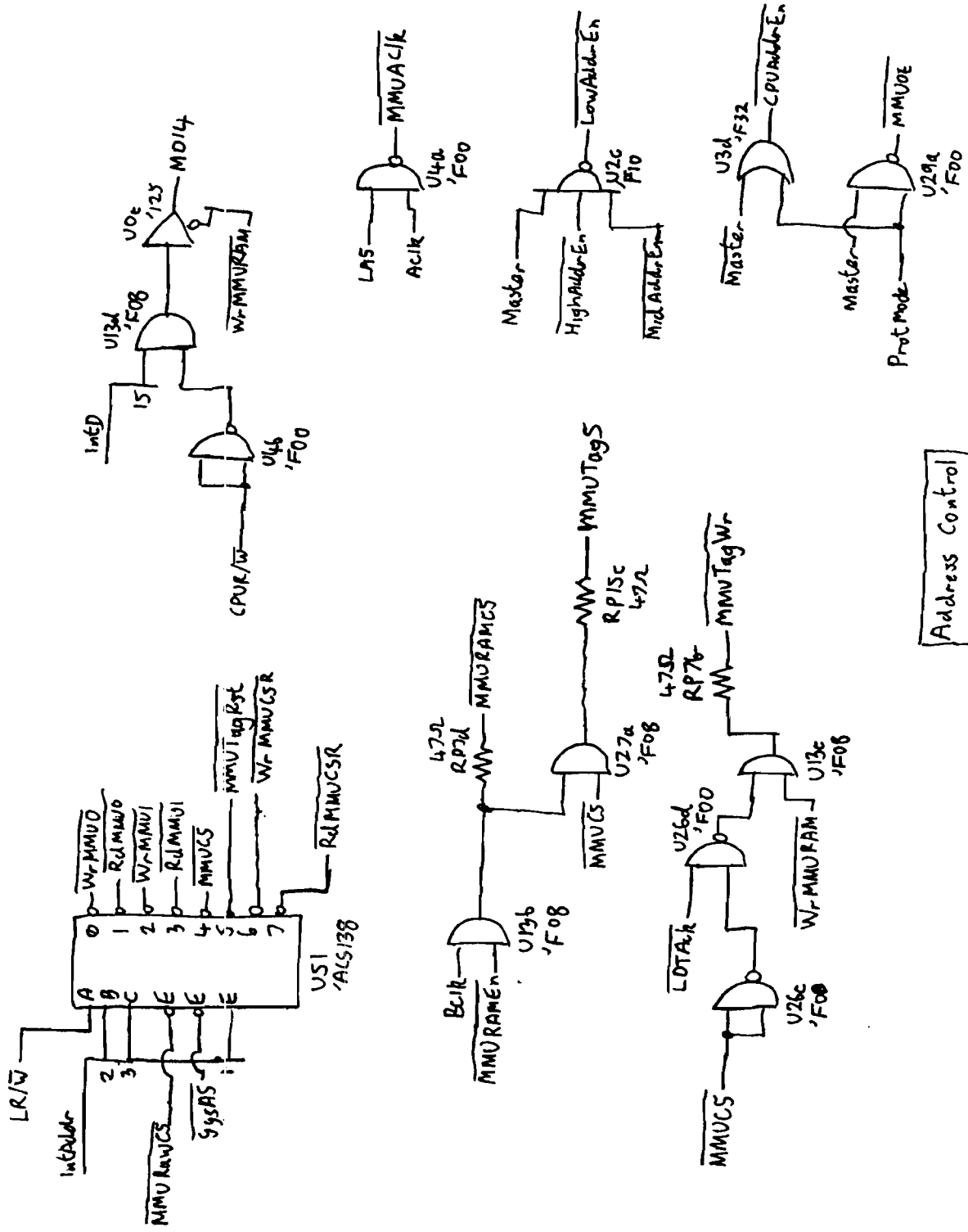




Internal

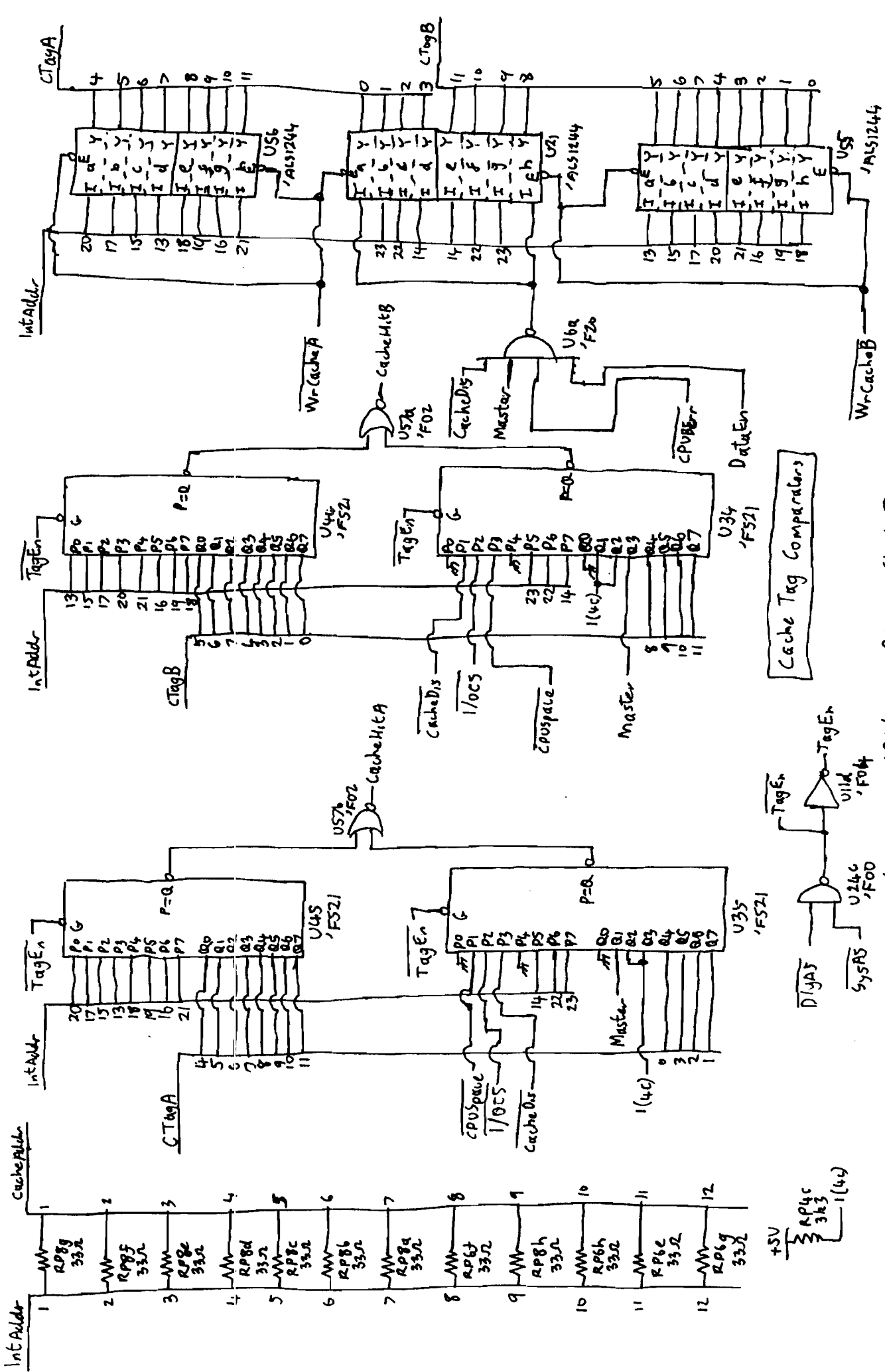




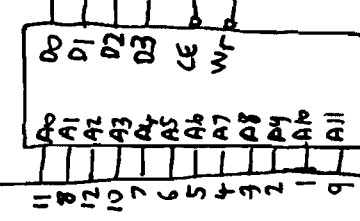
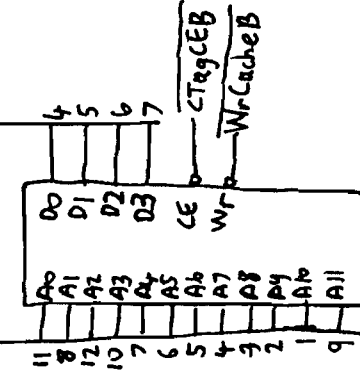
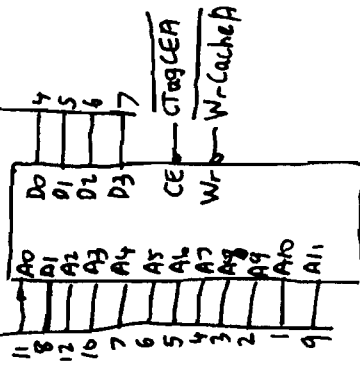
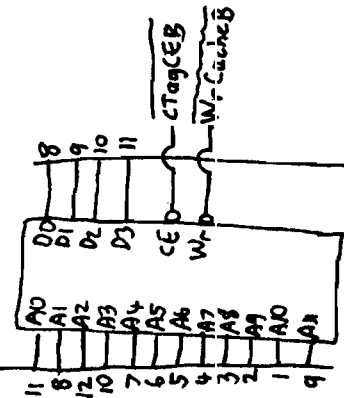
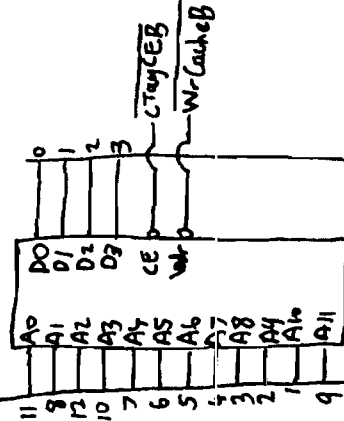
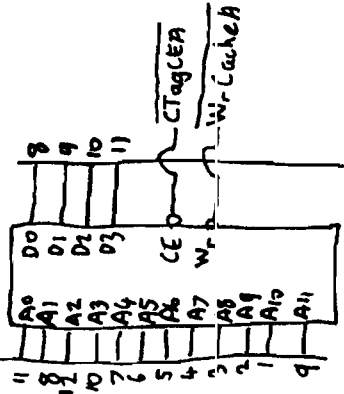
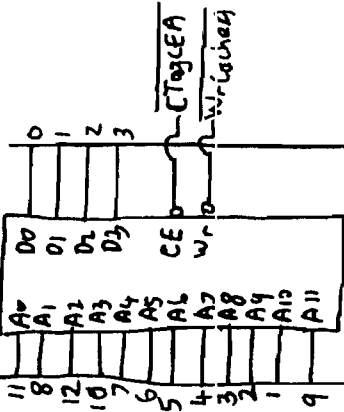


Address Control

)



Cache Address

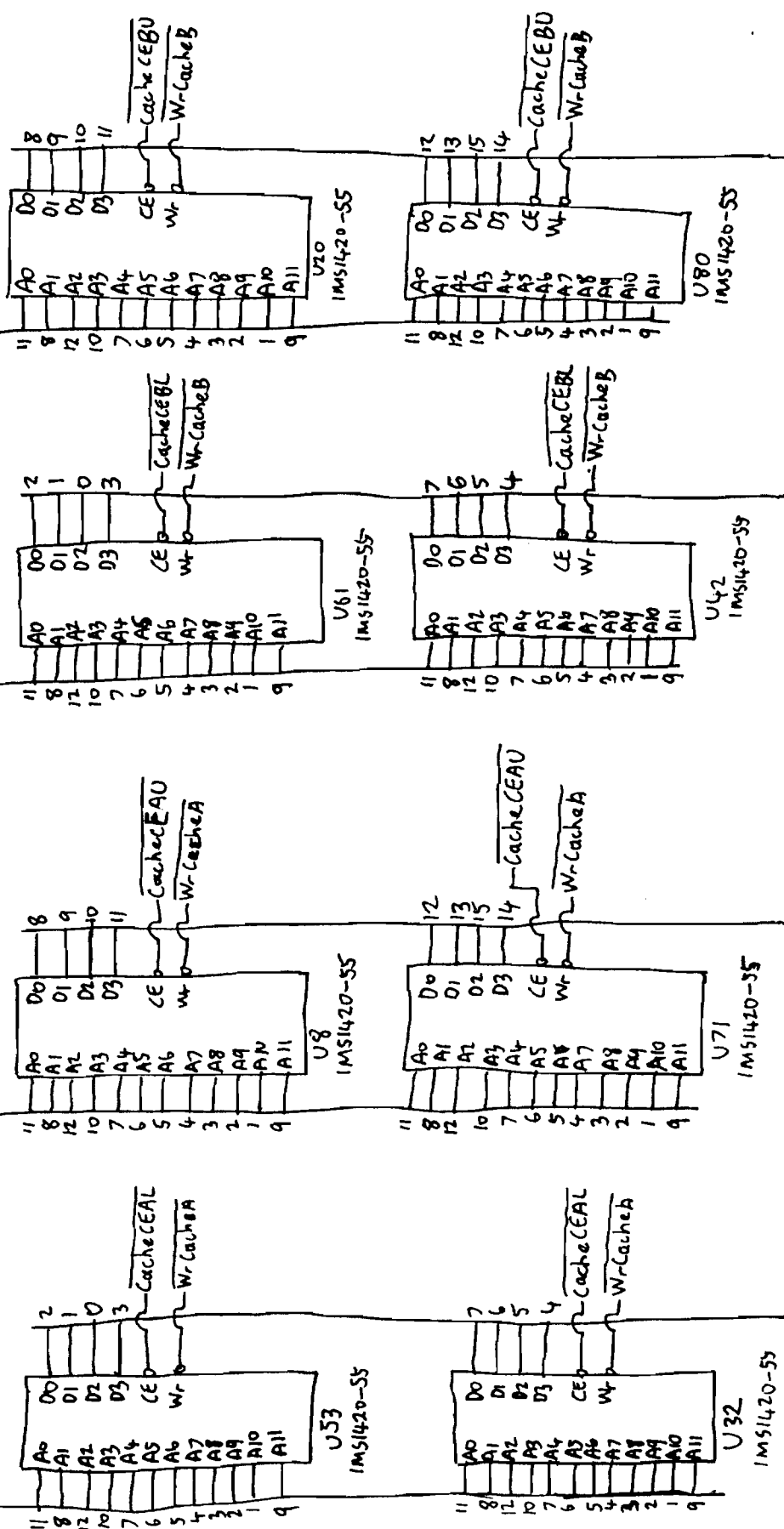


CTagA

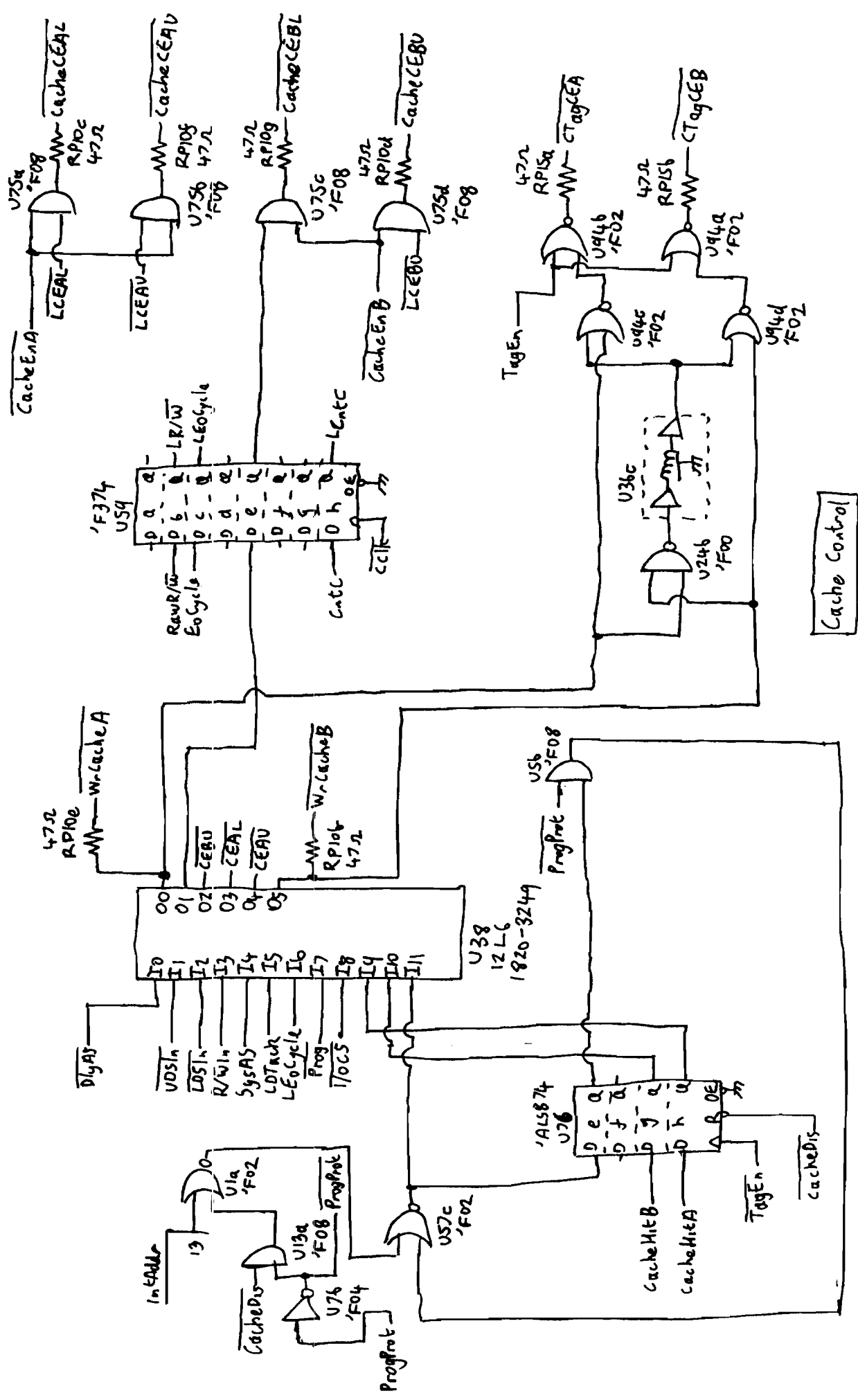
CTagB

Cache Tag

Cache Addr

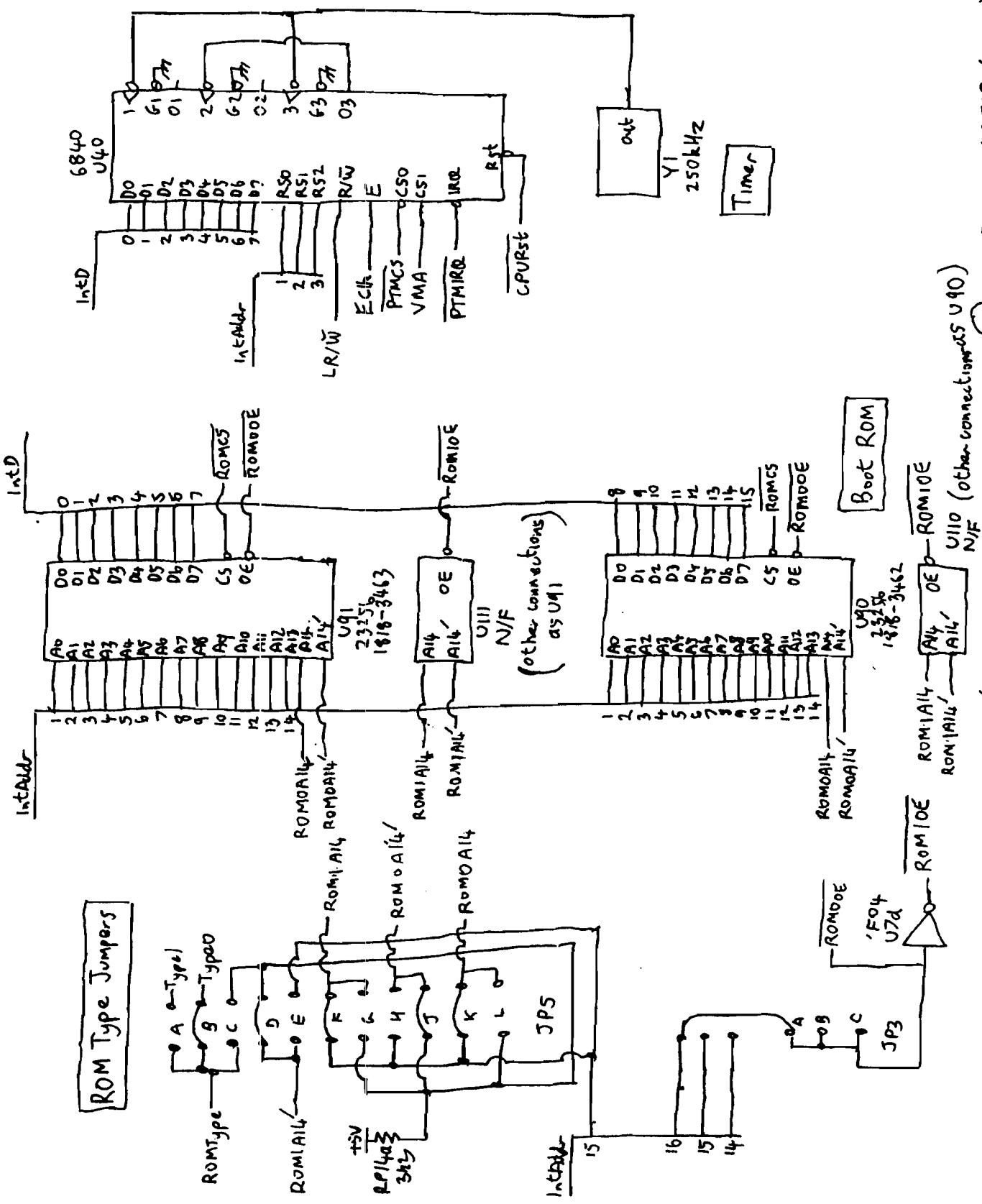


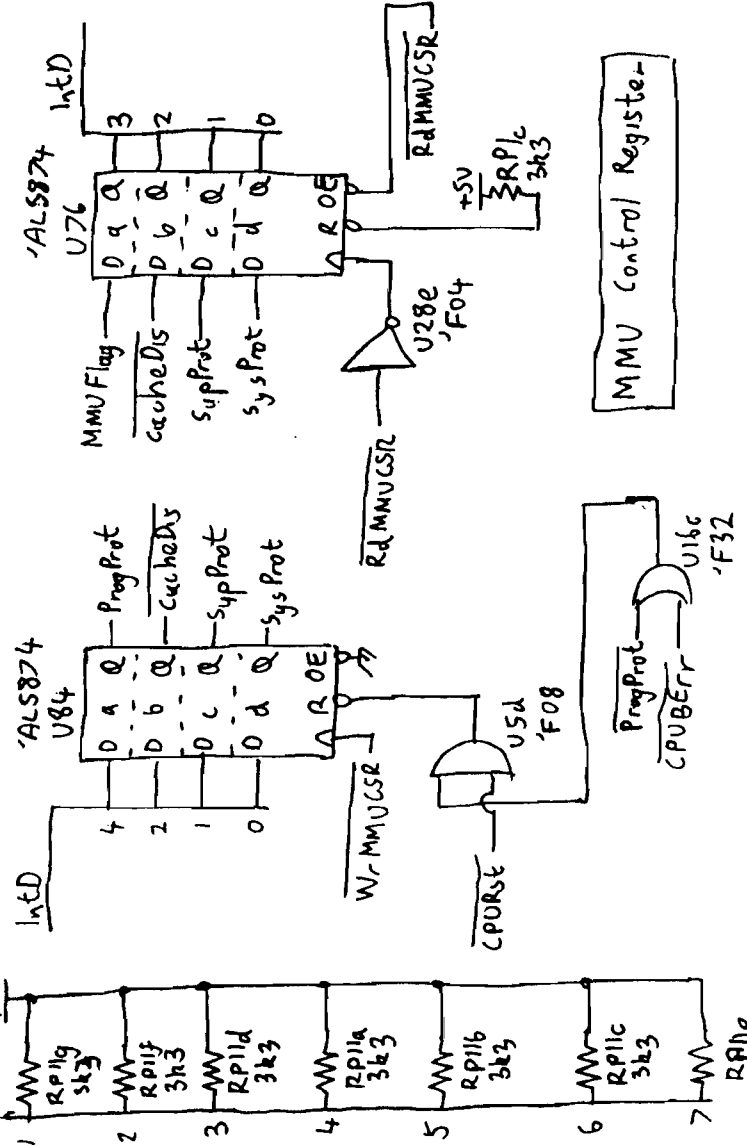
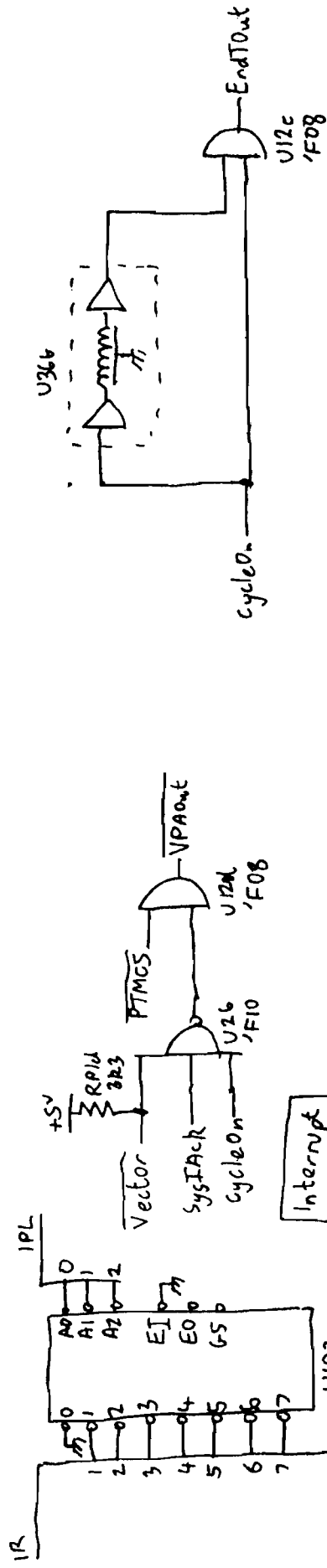
Cache RAM

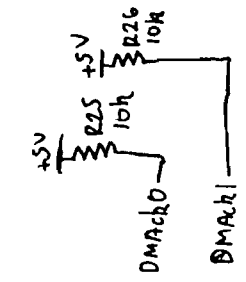
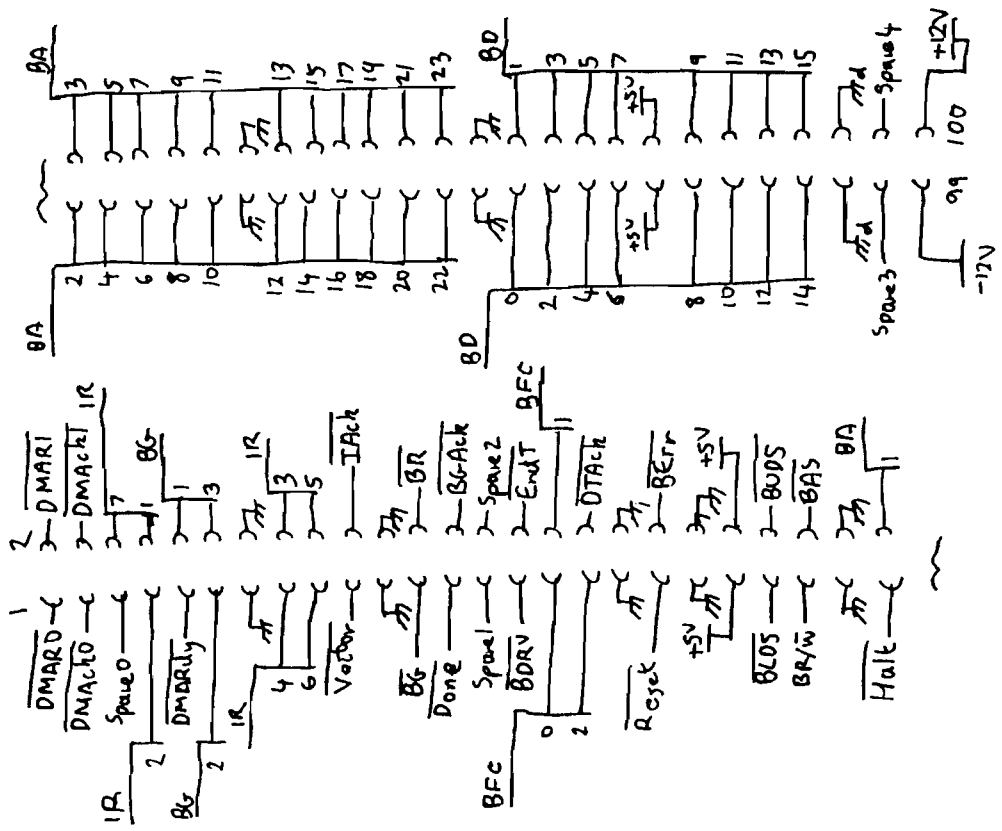




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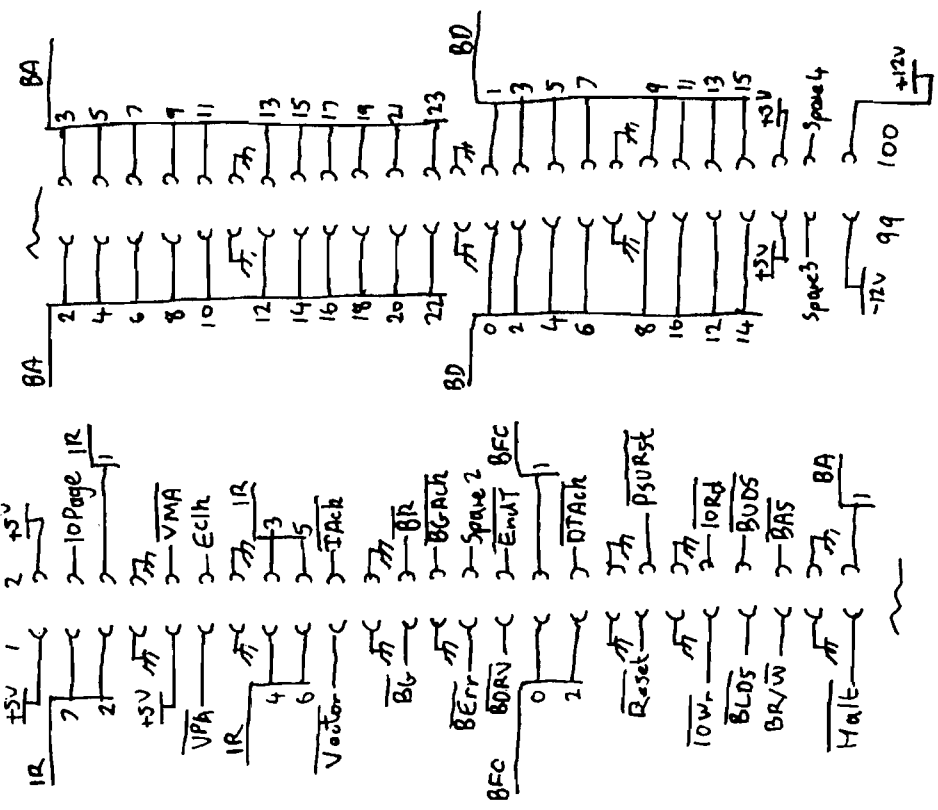




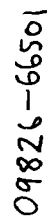


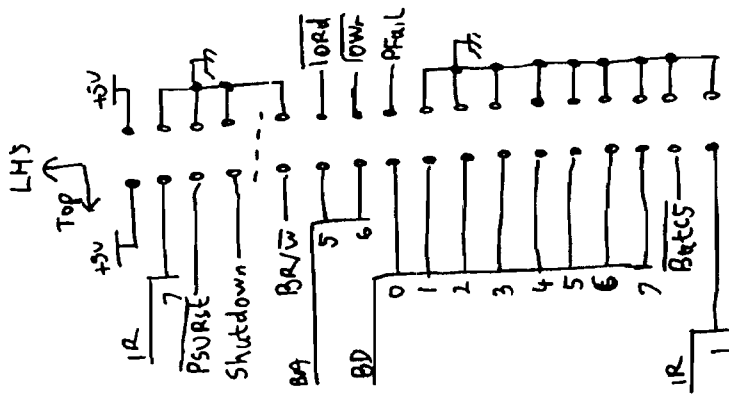
J2
(Backplane)

LHS
↑
RHS

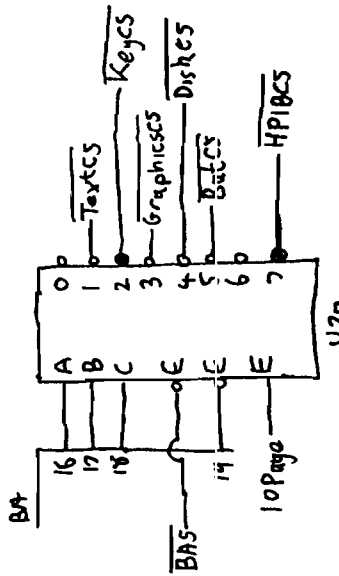
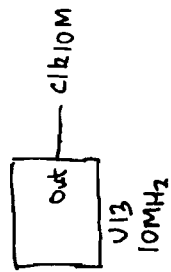


J3
(CPU)

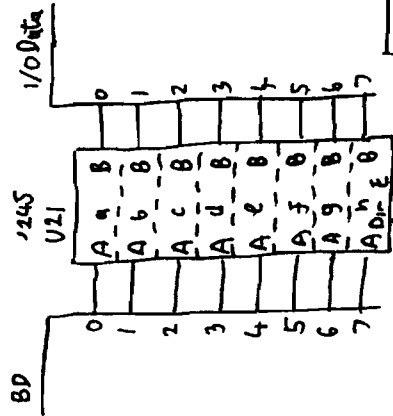




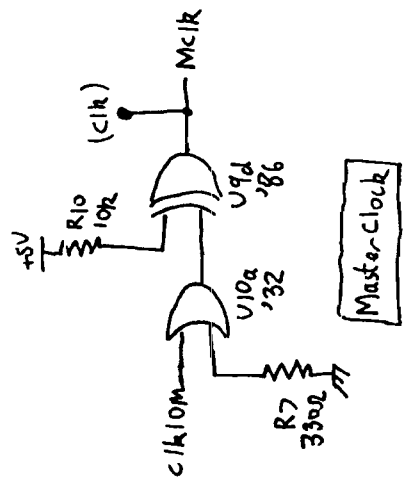
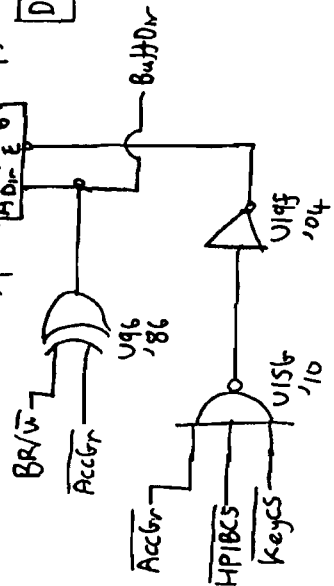
J10
(Battery Backup)

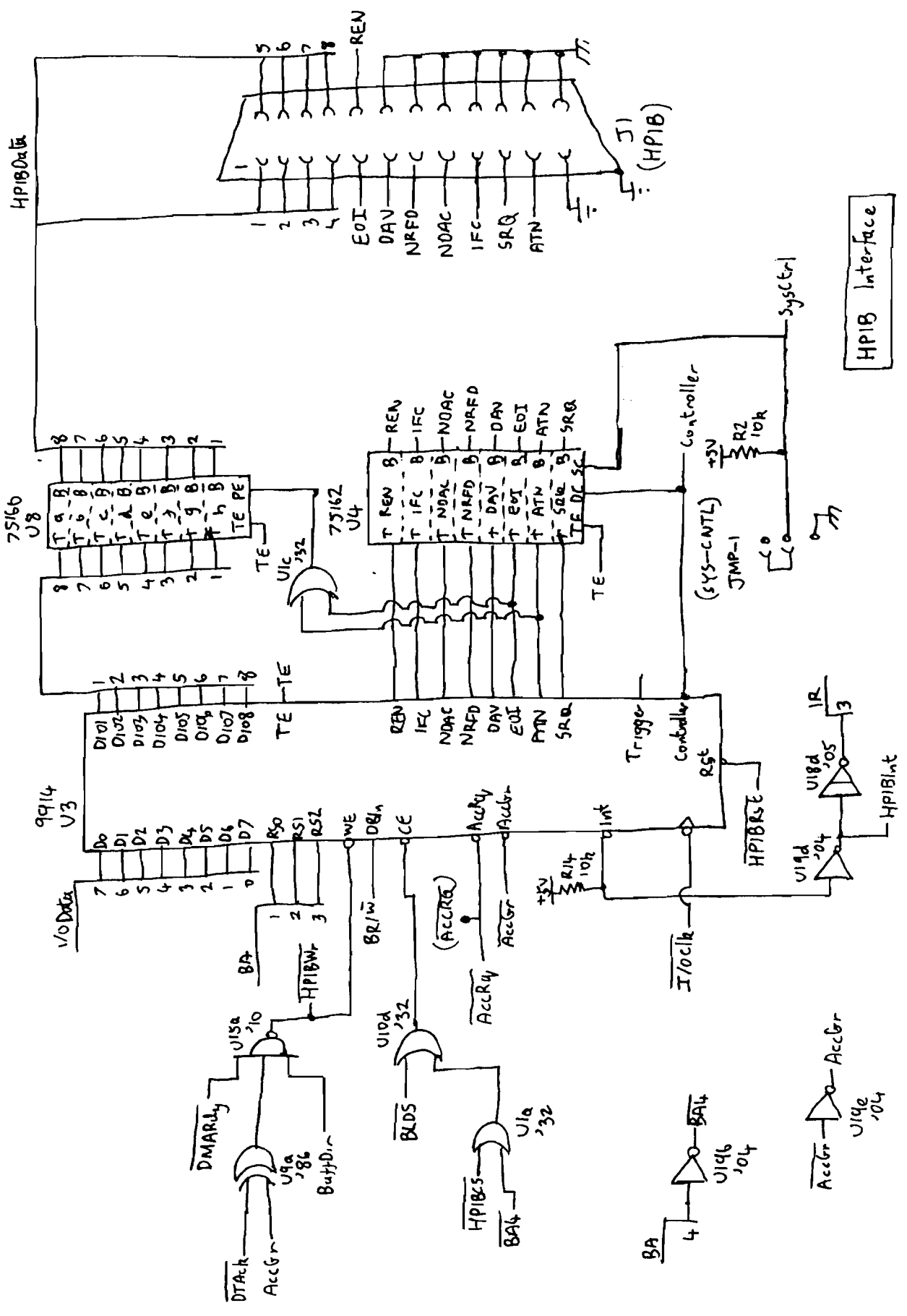


Address Decoder

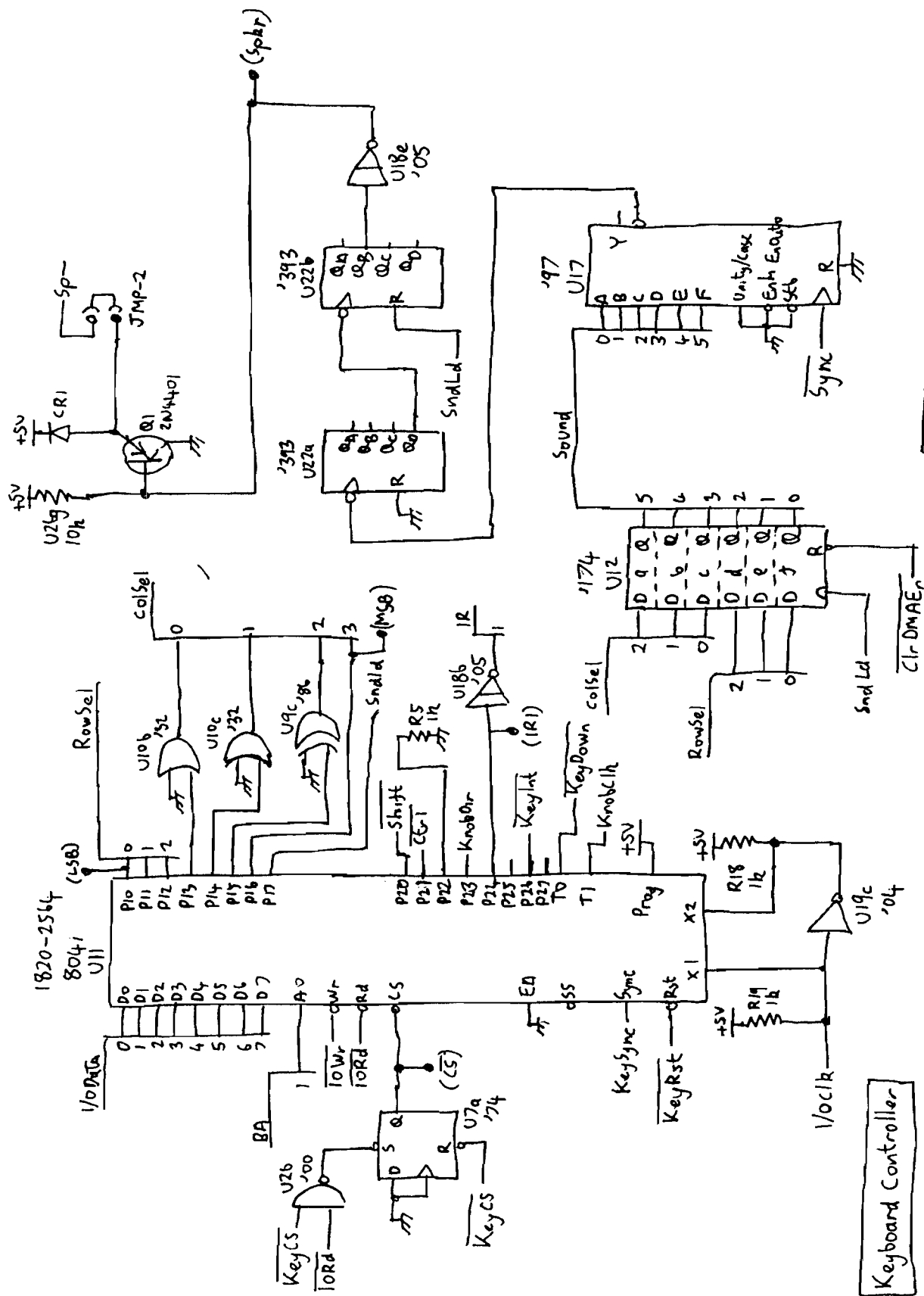


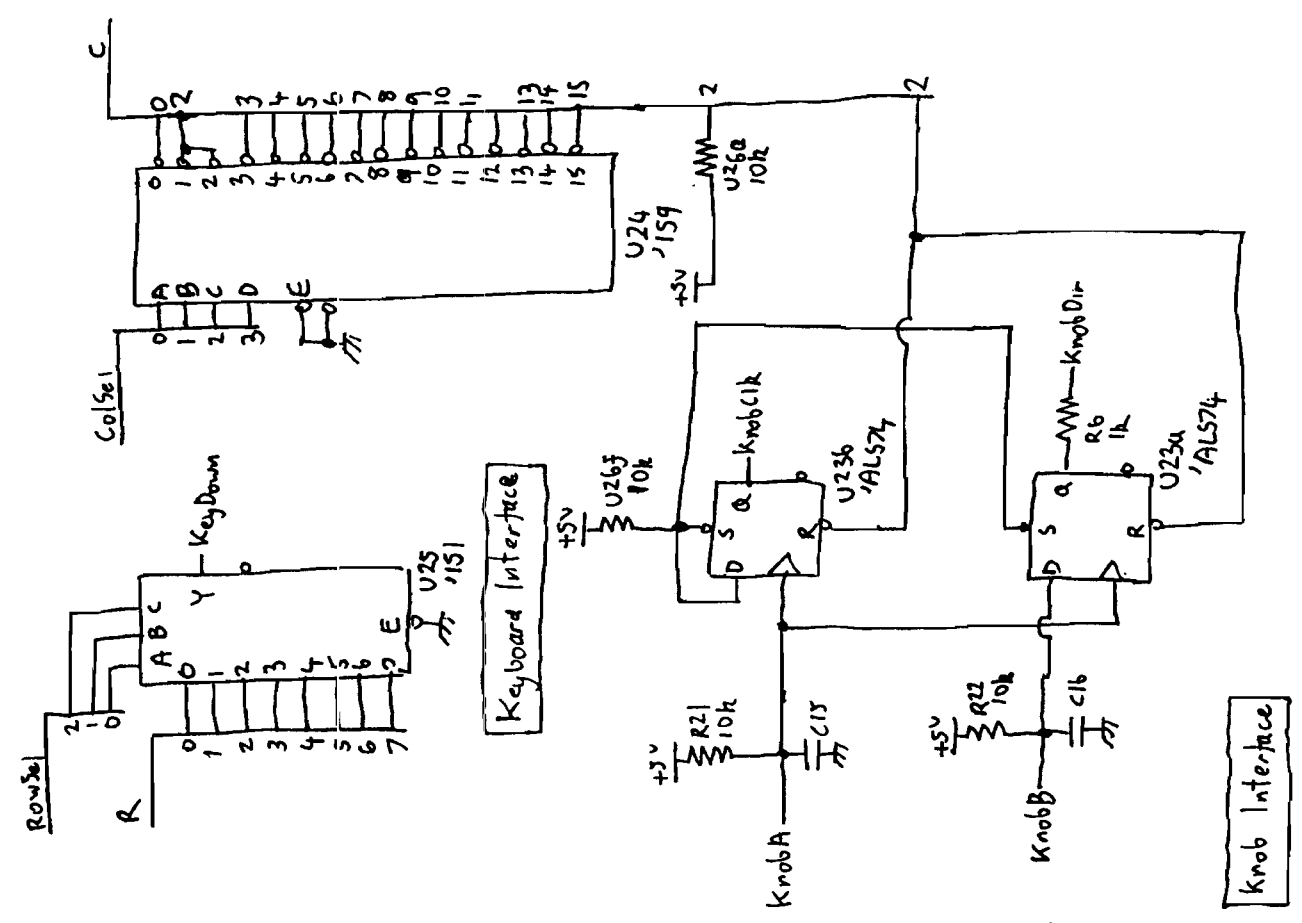
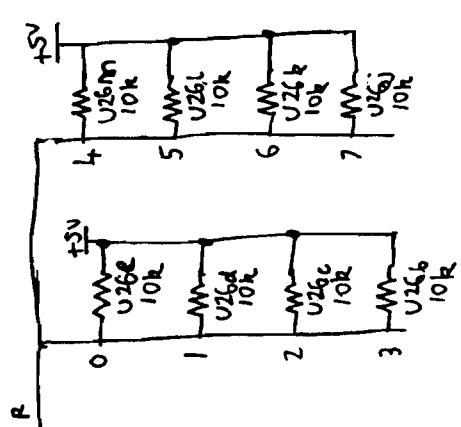
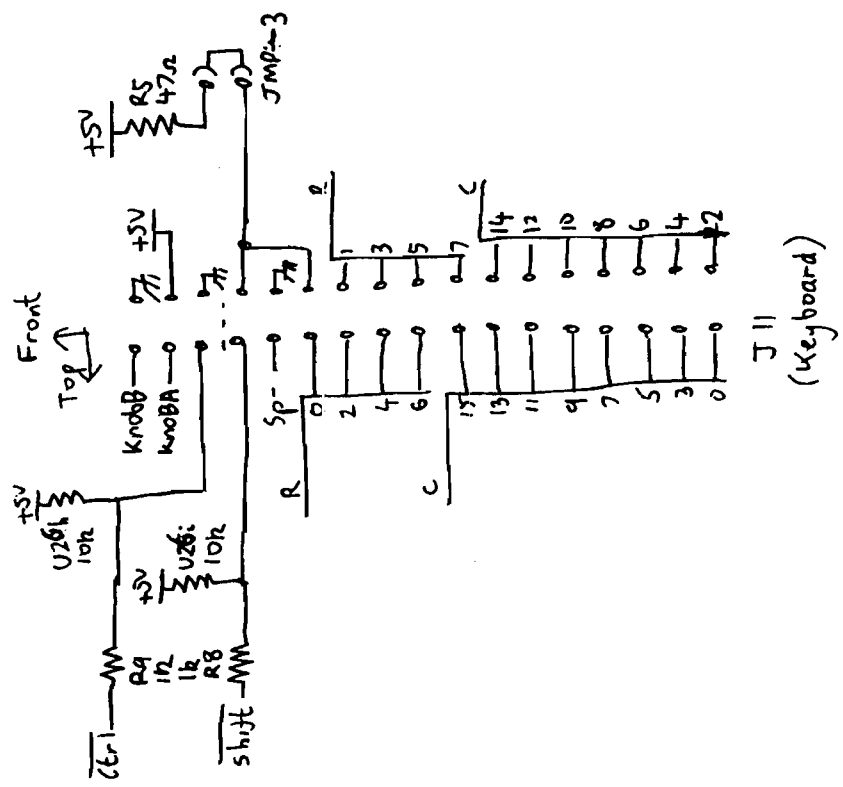
Data Buffer

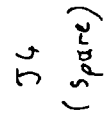
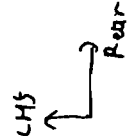
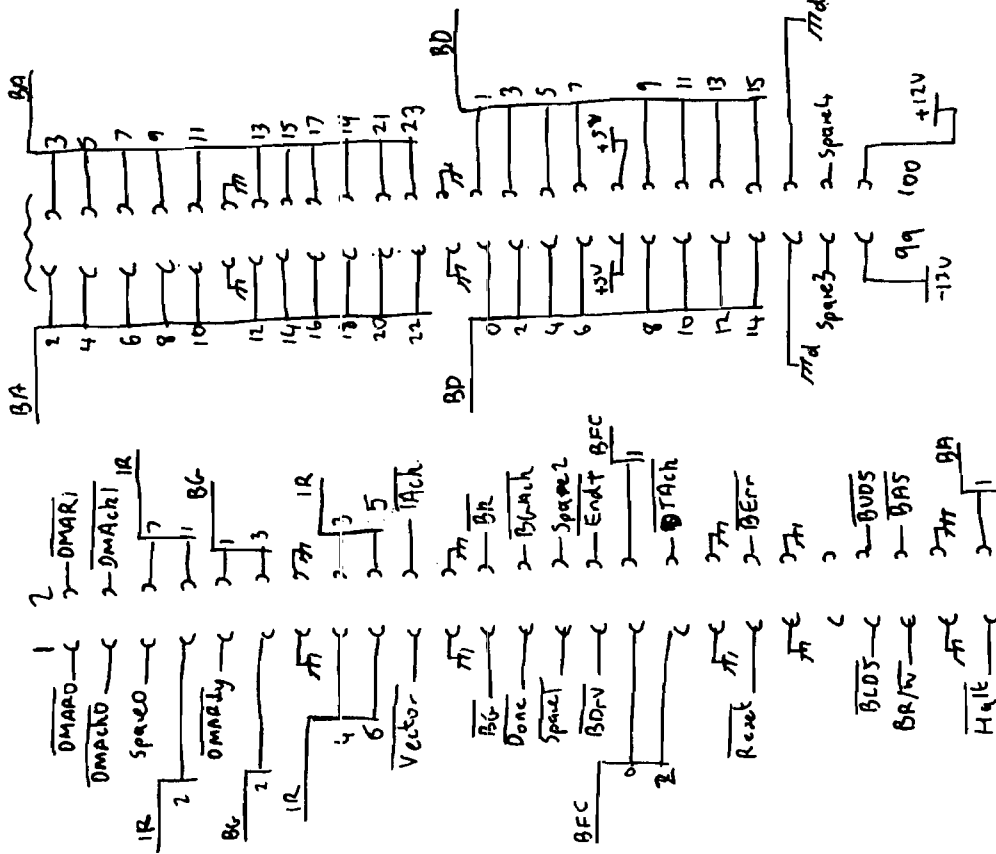
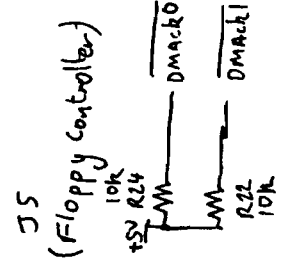
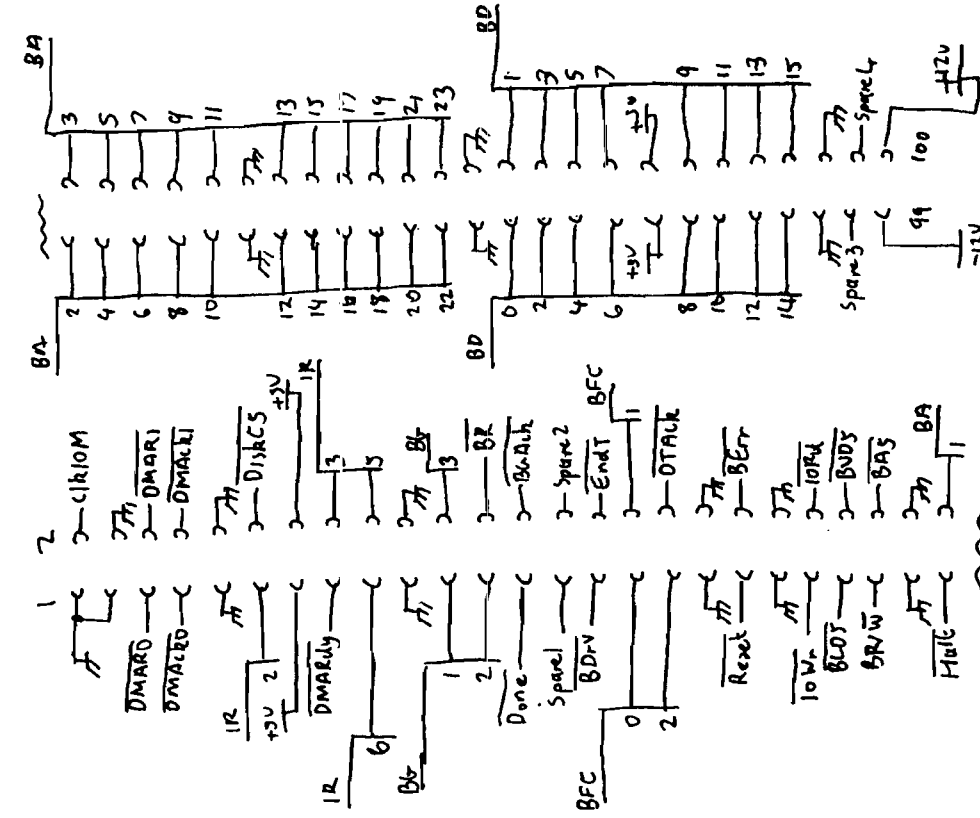




HP1800 Interface

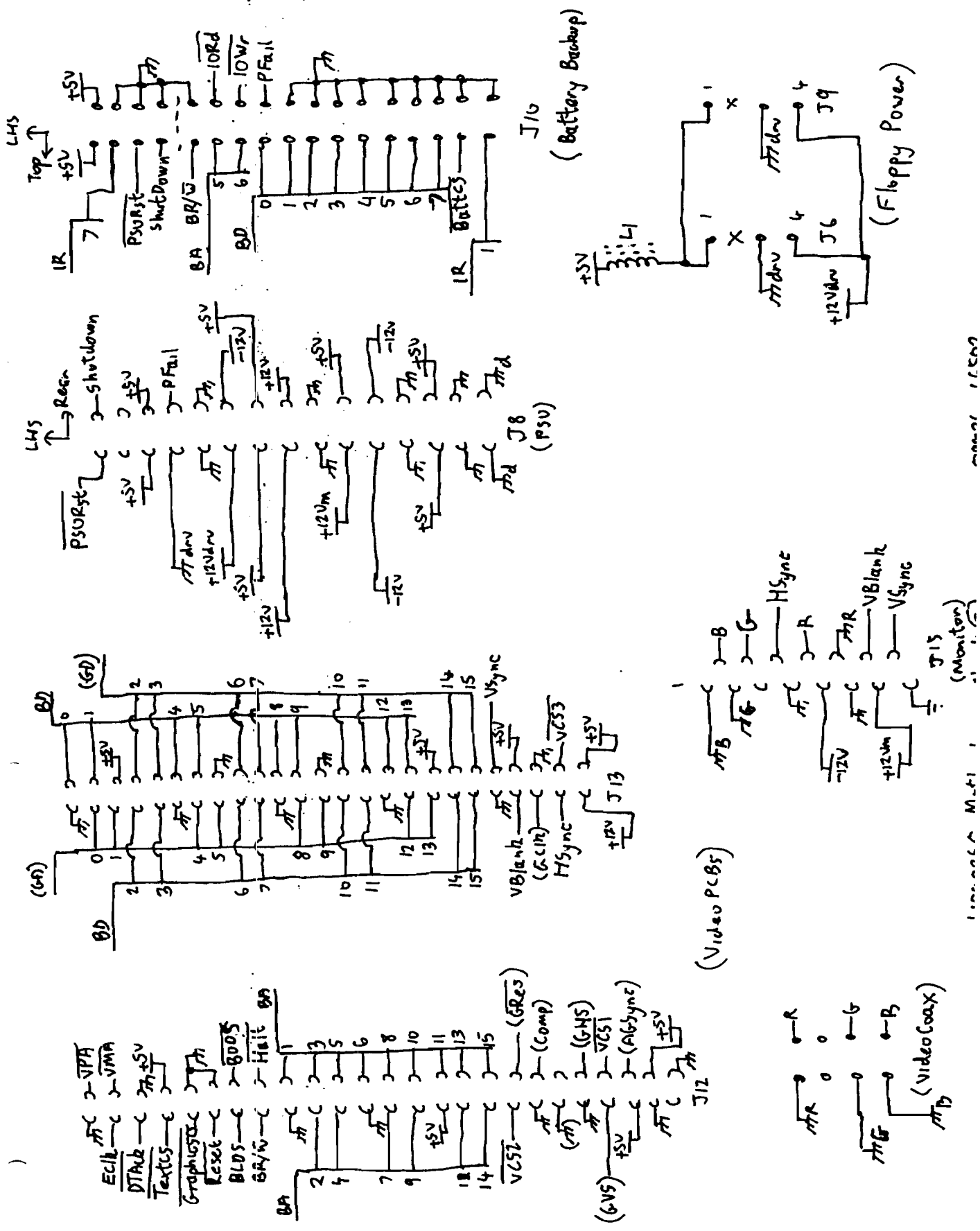






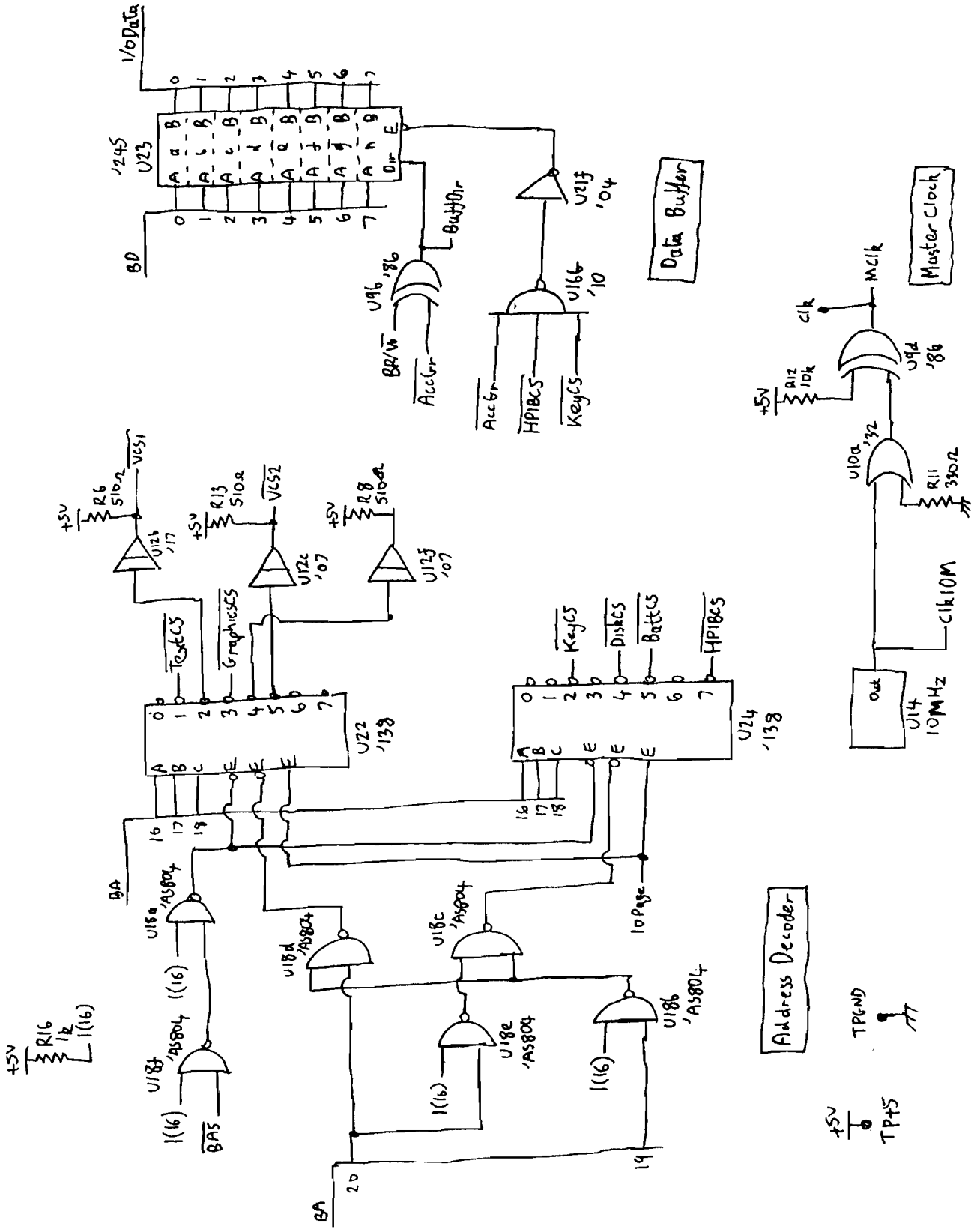
09836-69502

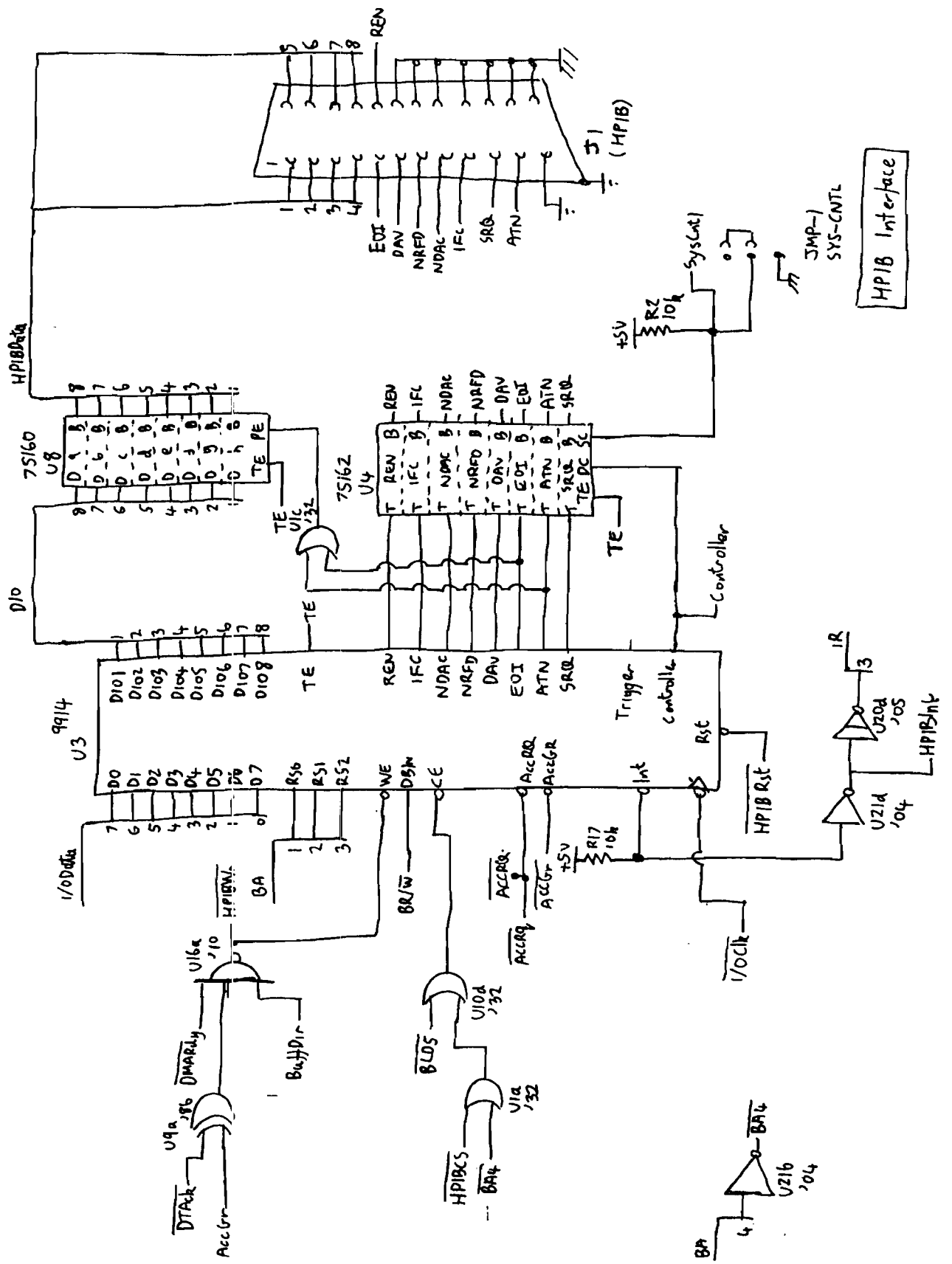
HP9836 Motherboard Sheet 2

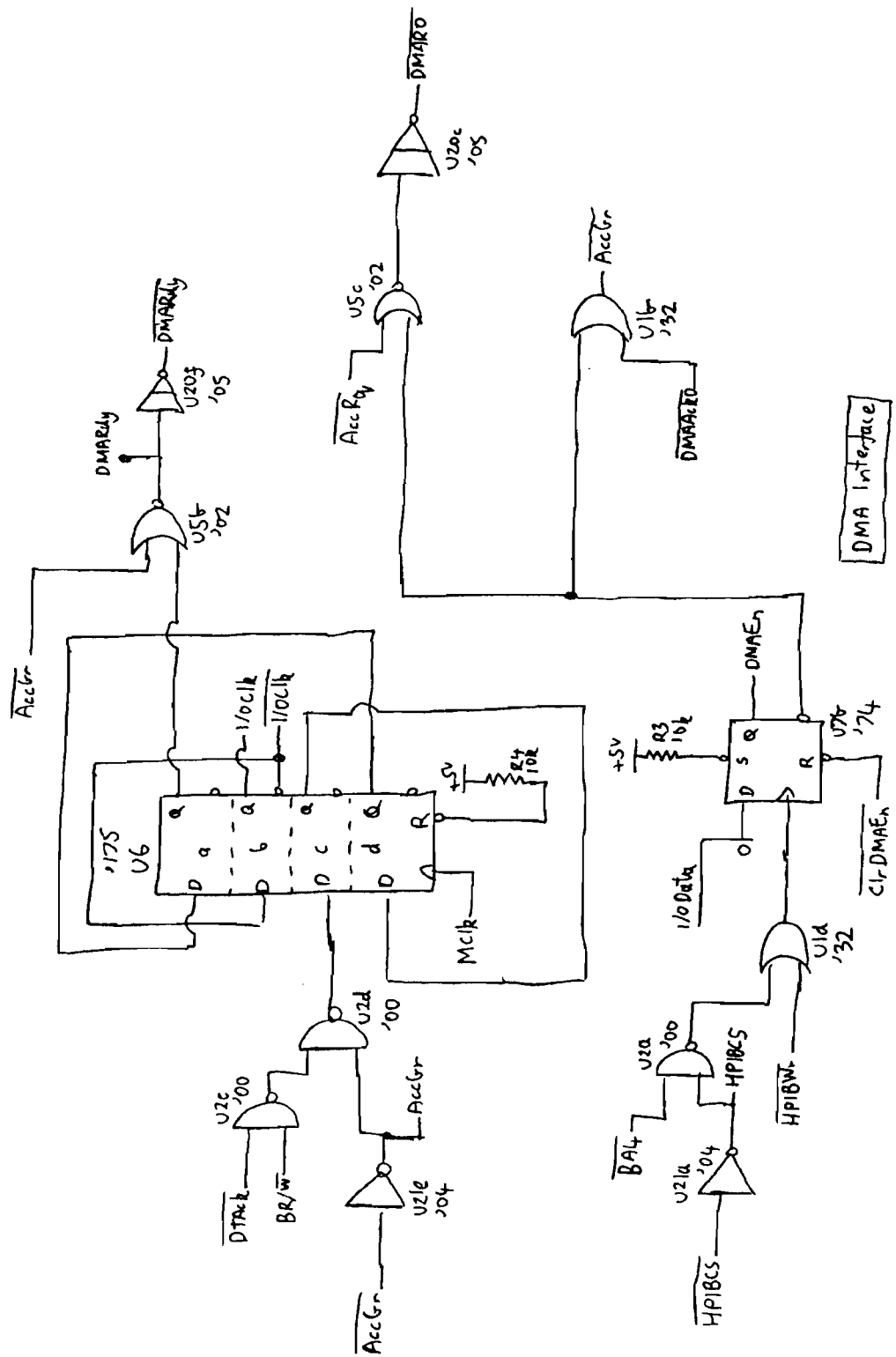


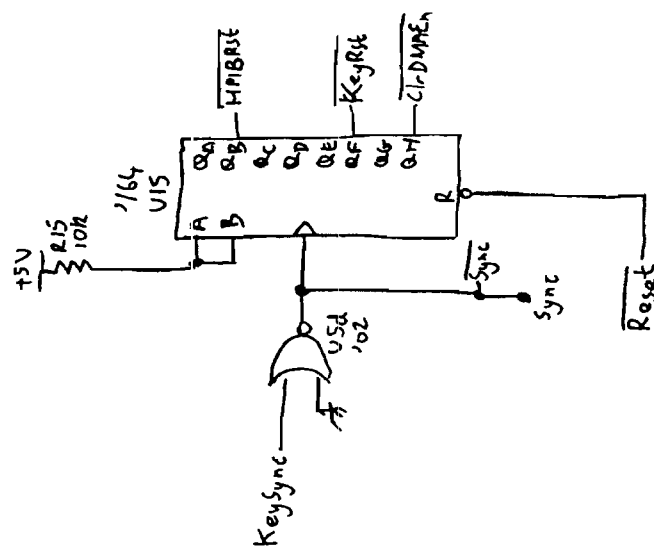
main 1.25V

main 1.25V

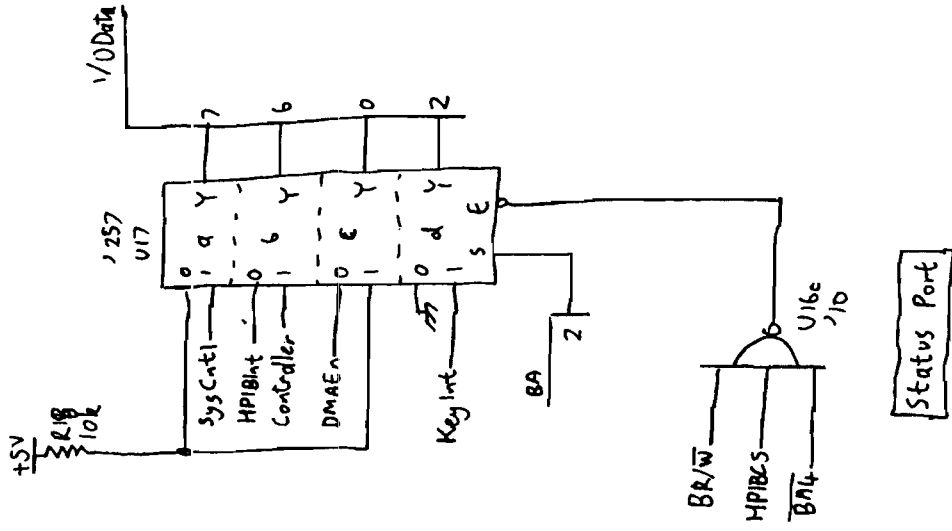
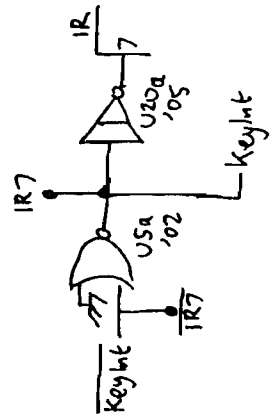


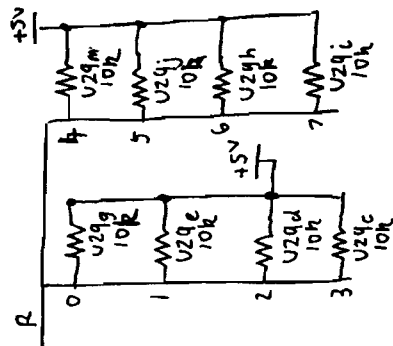
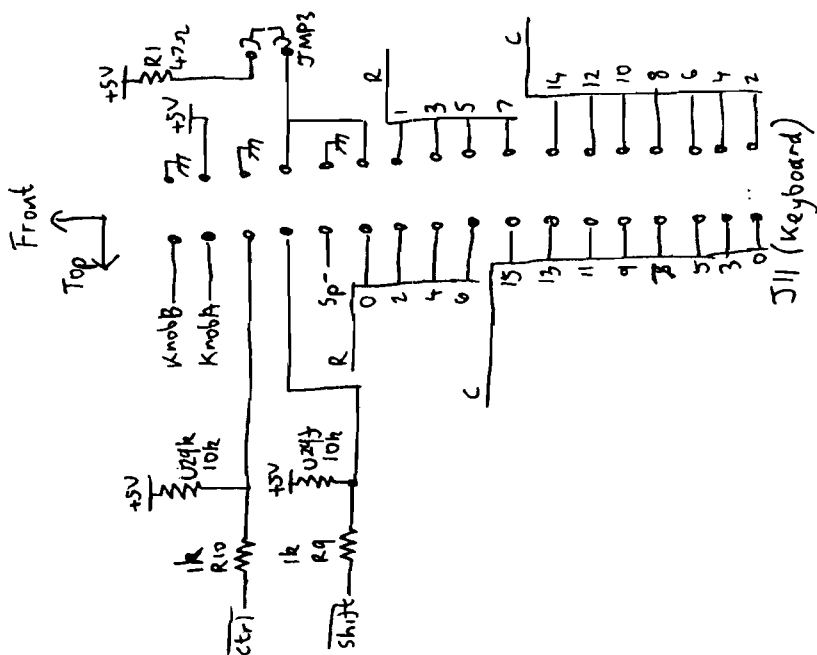
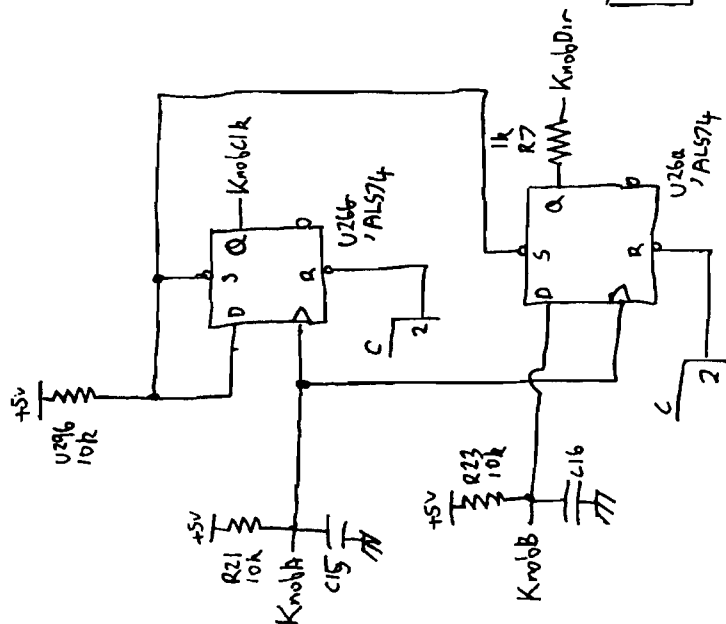
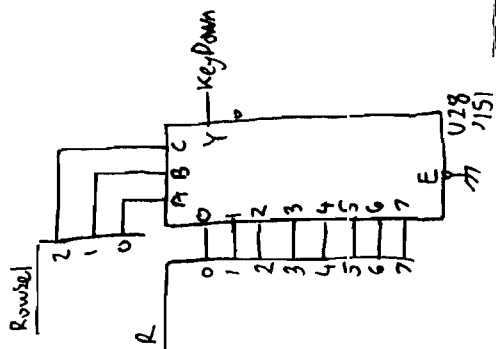
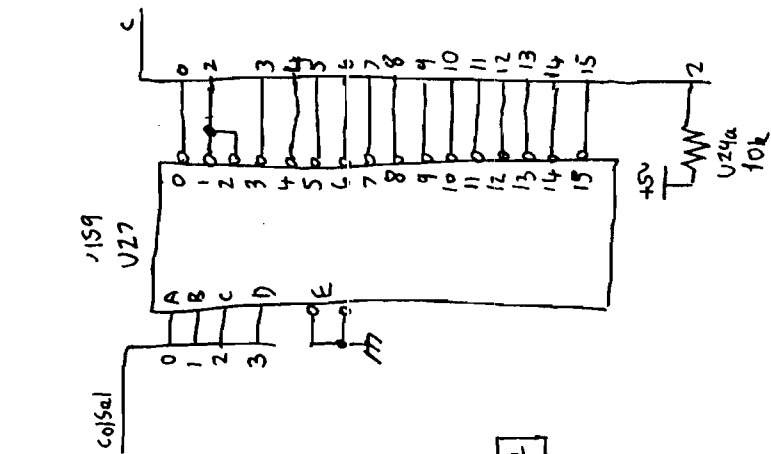


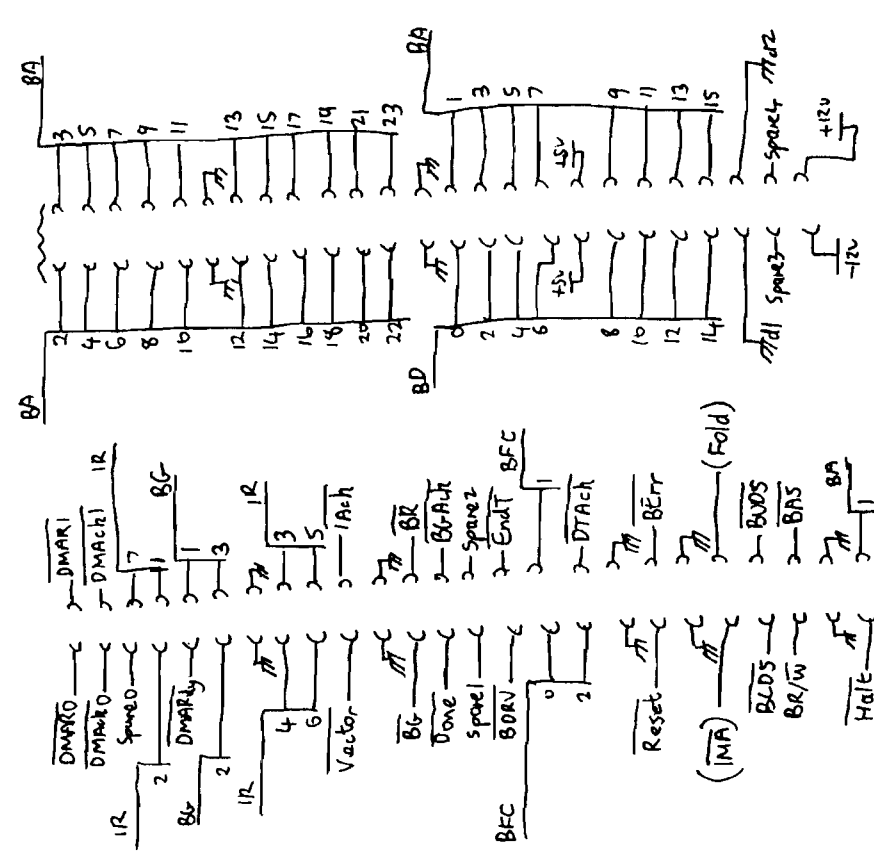
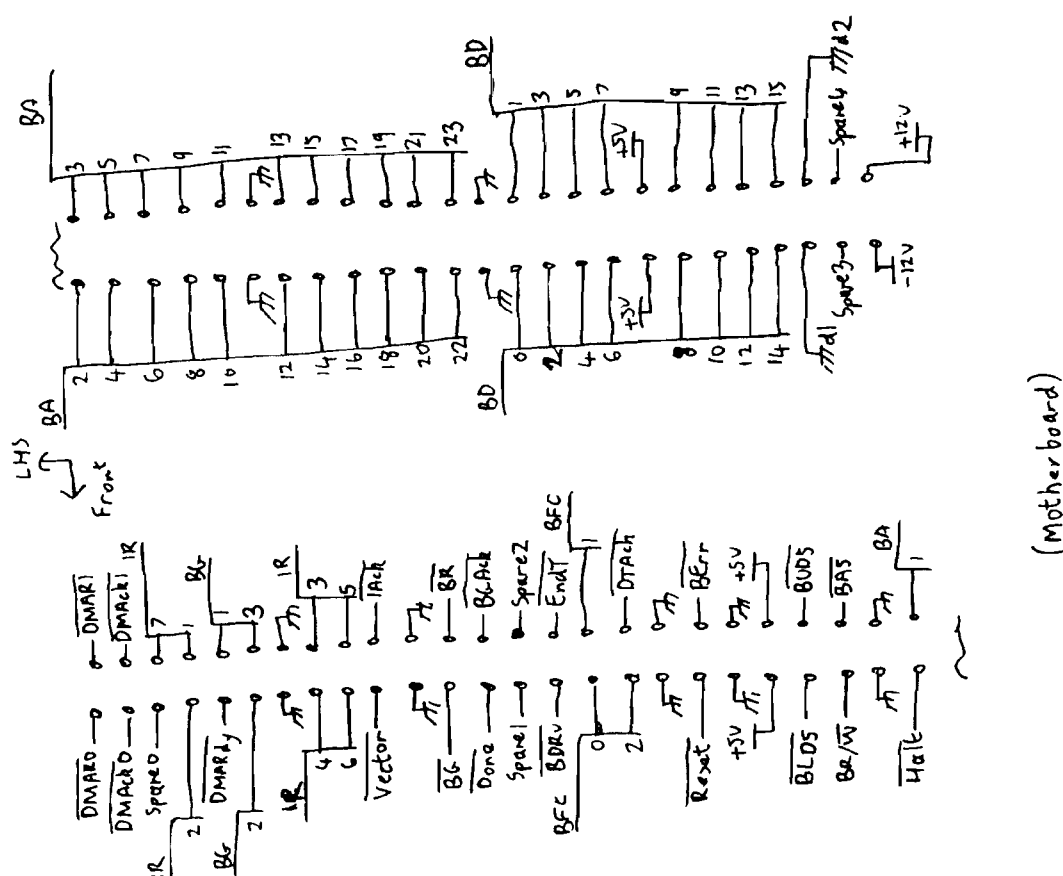




Reset

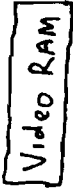


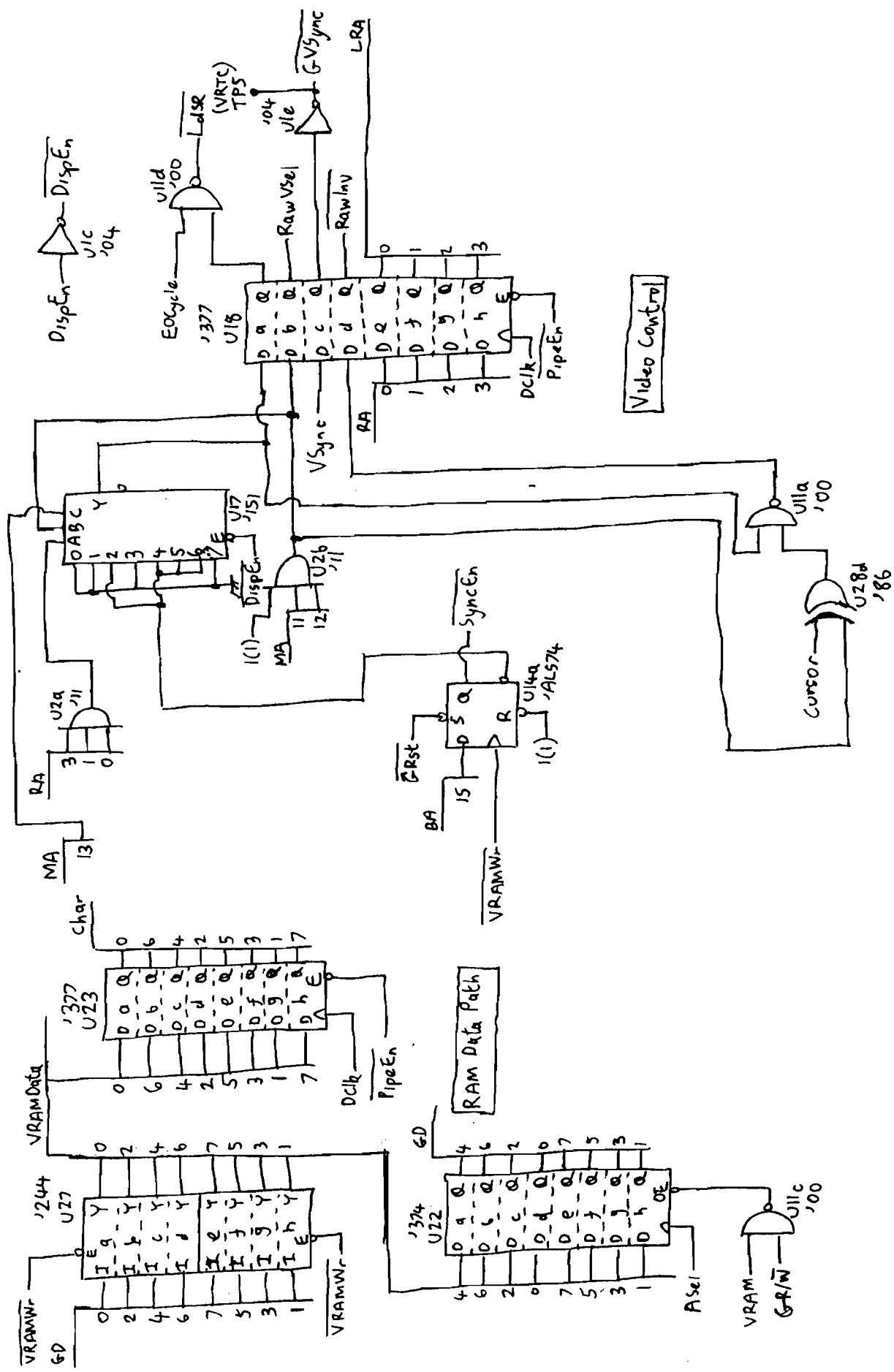


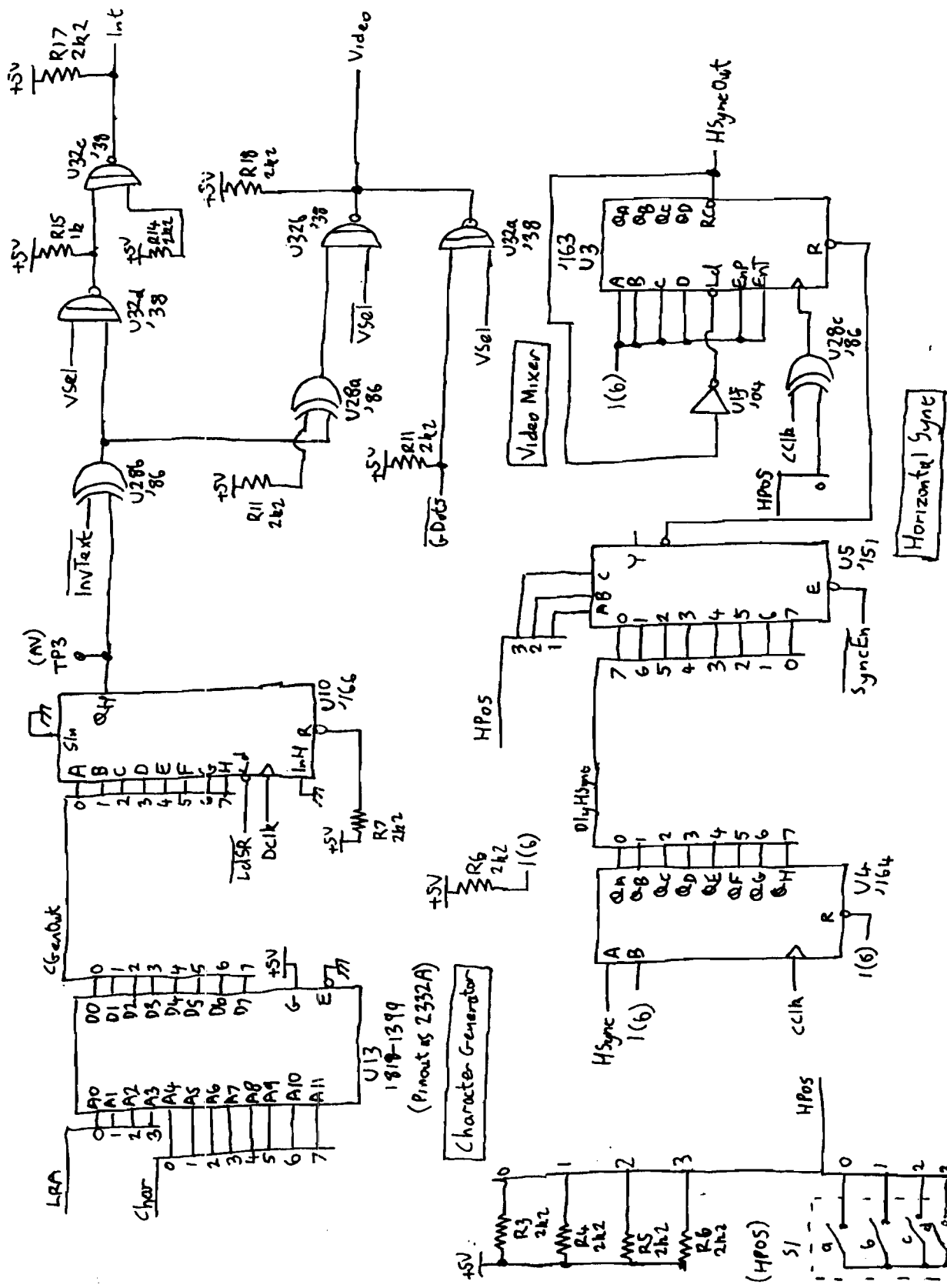


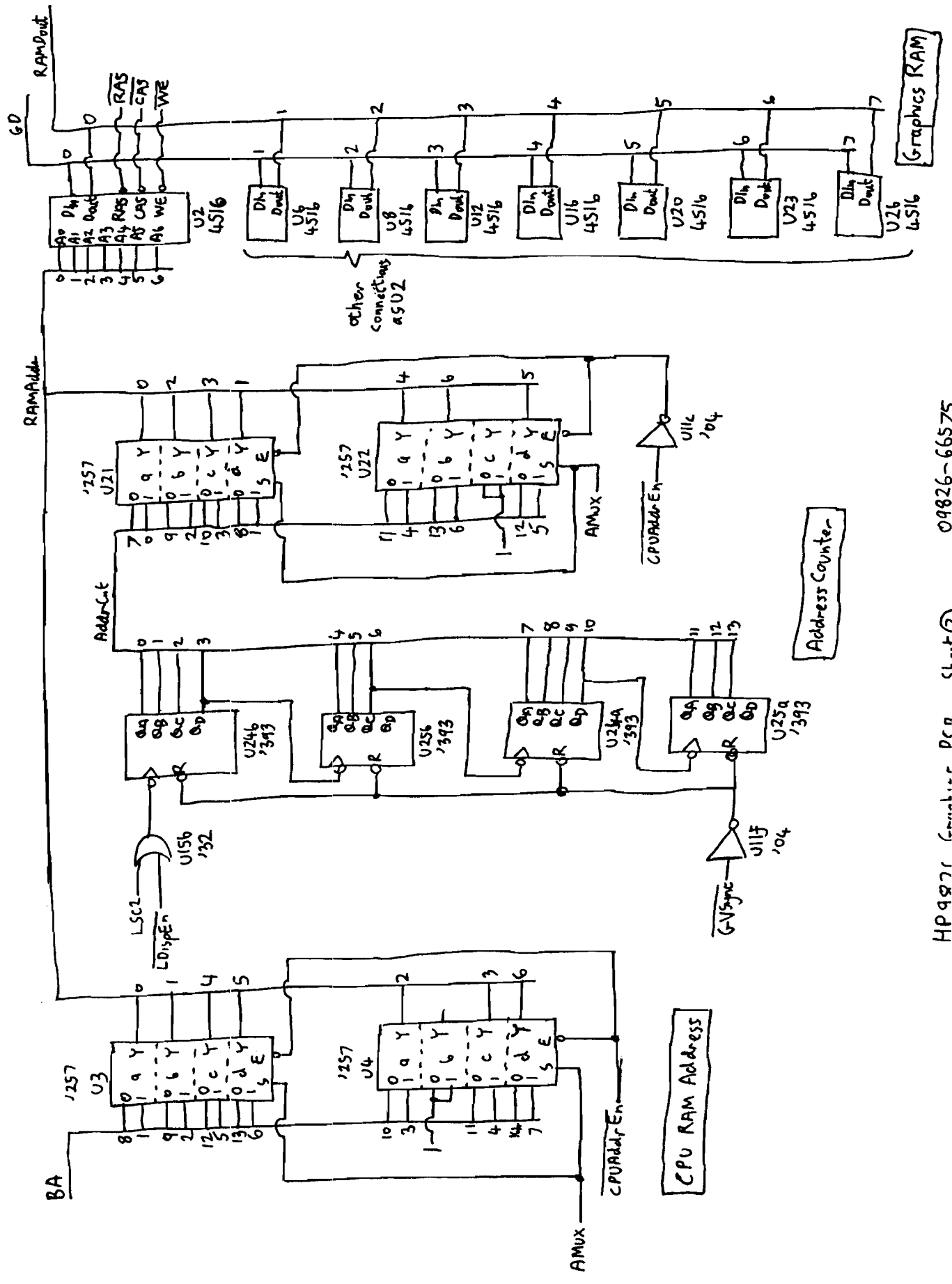
09826-66581

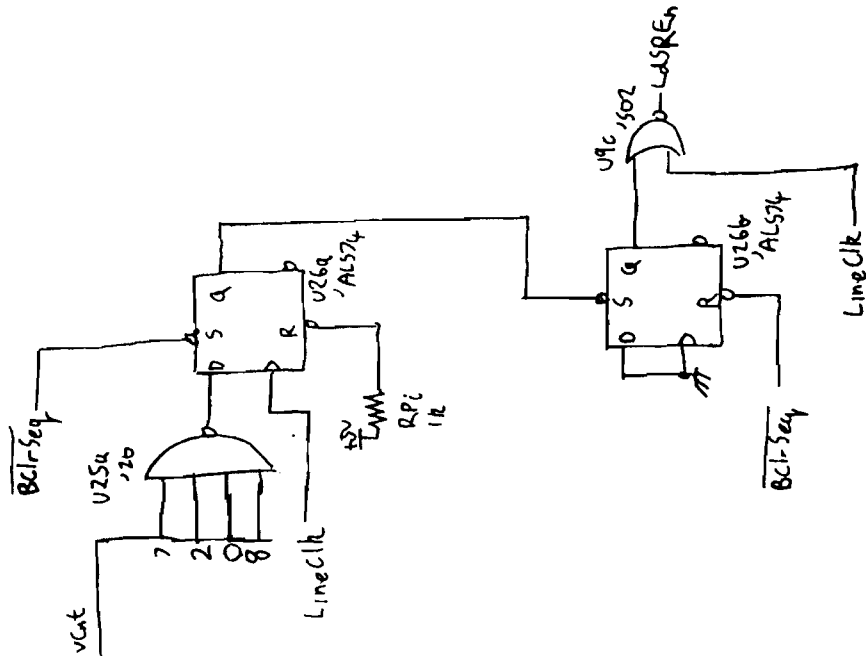
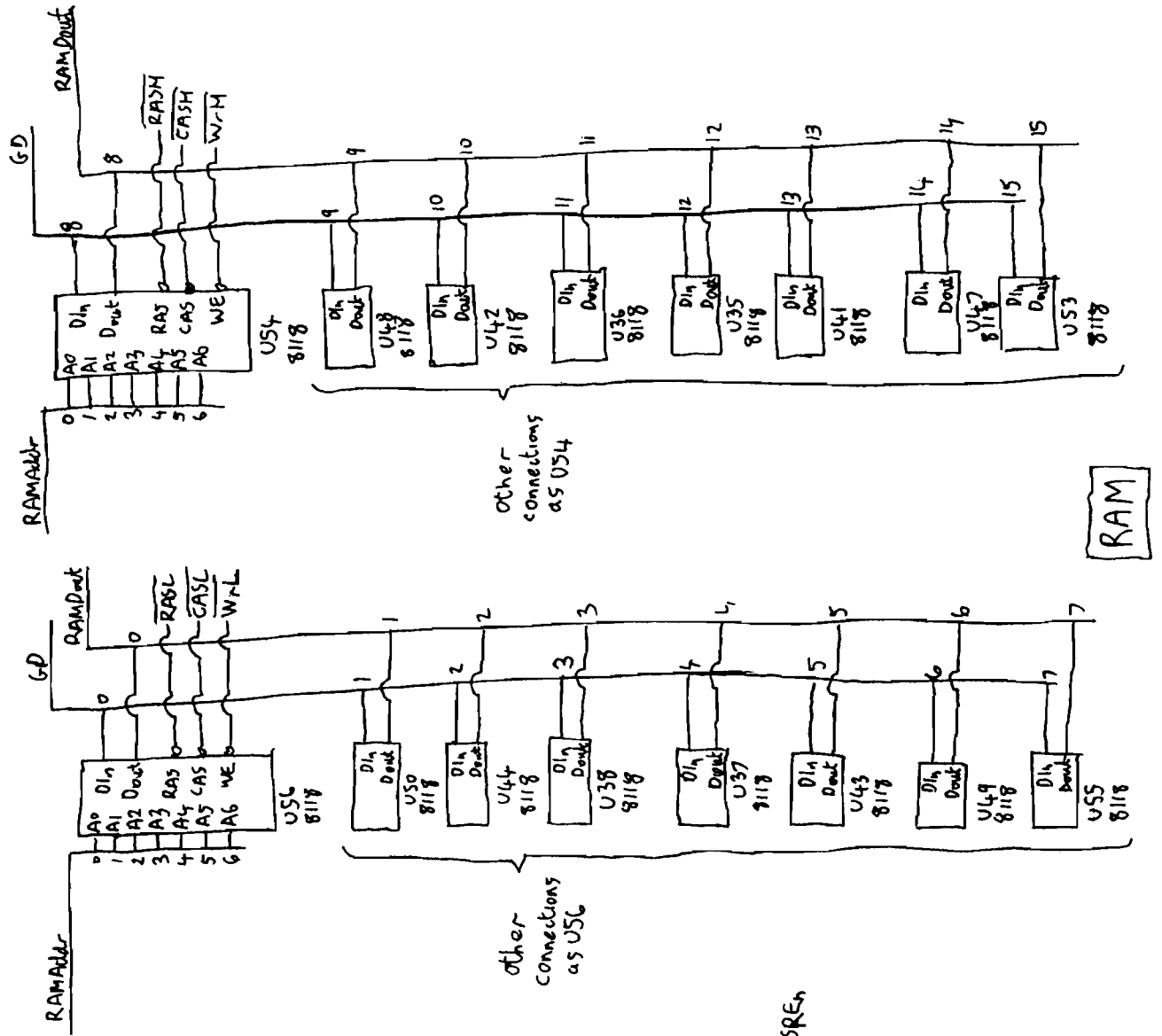
HP9826 / HP9836 Backplane





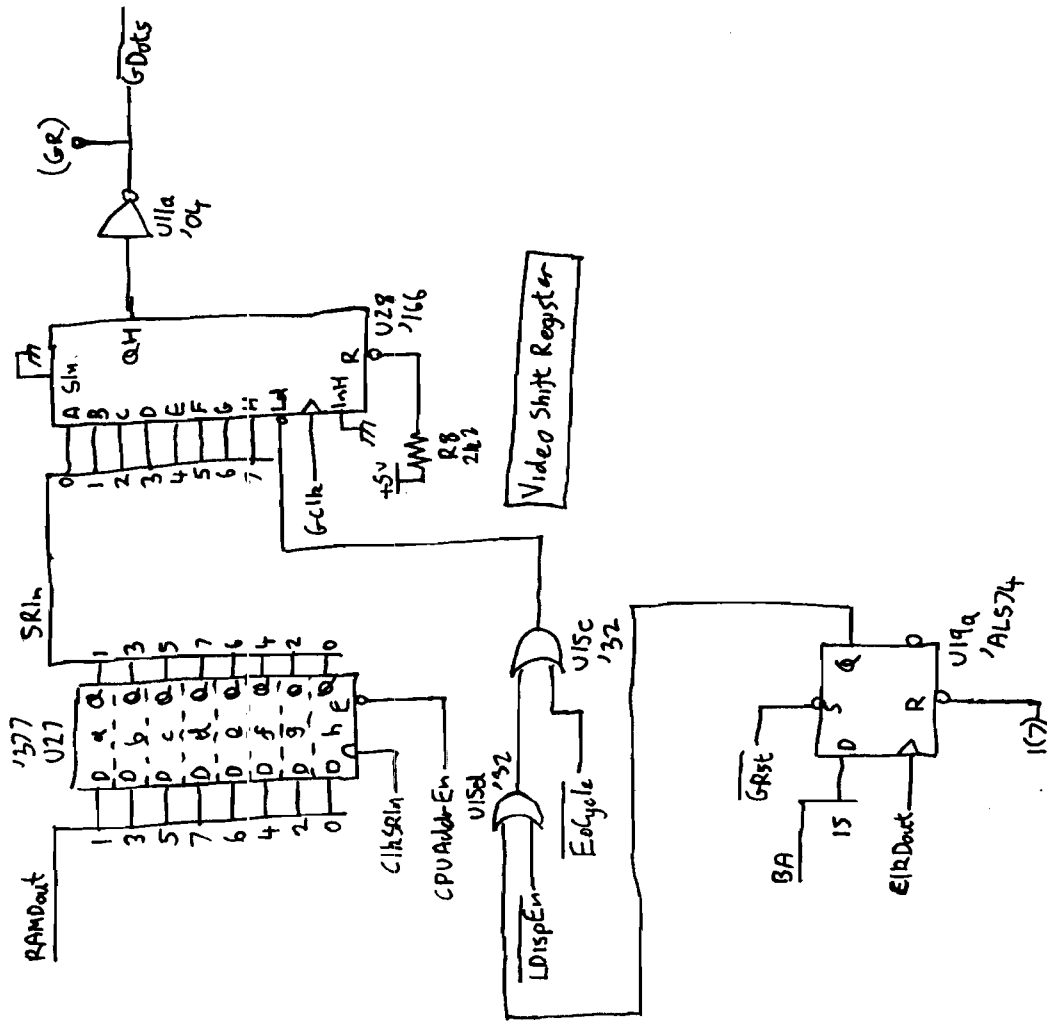
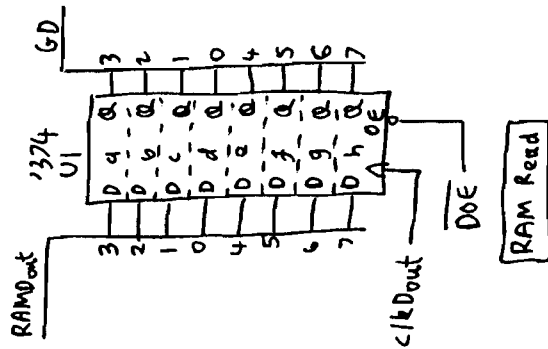
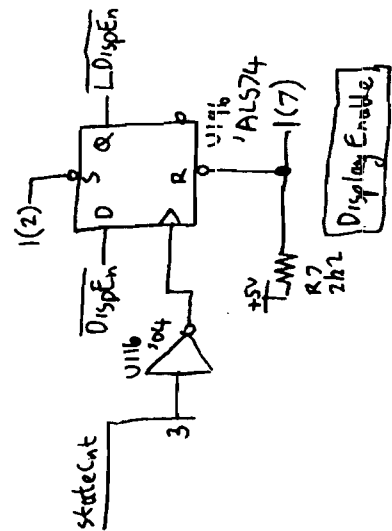




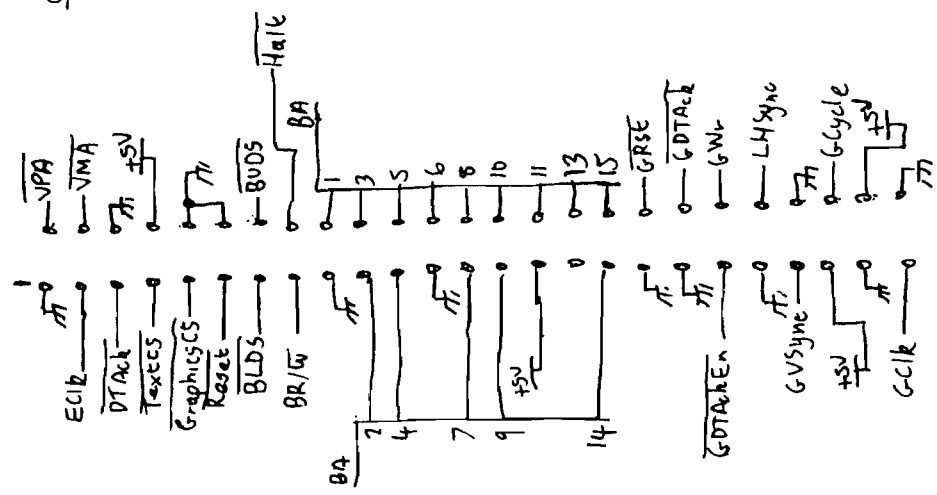


End of Picture

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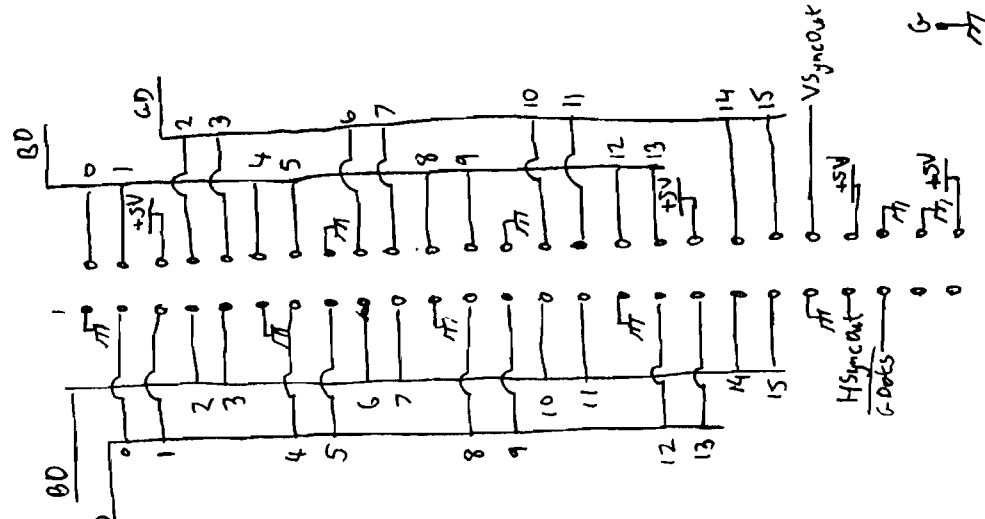


LH3
To 1



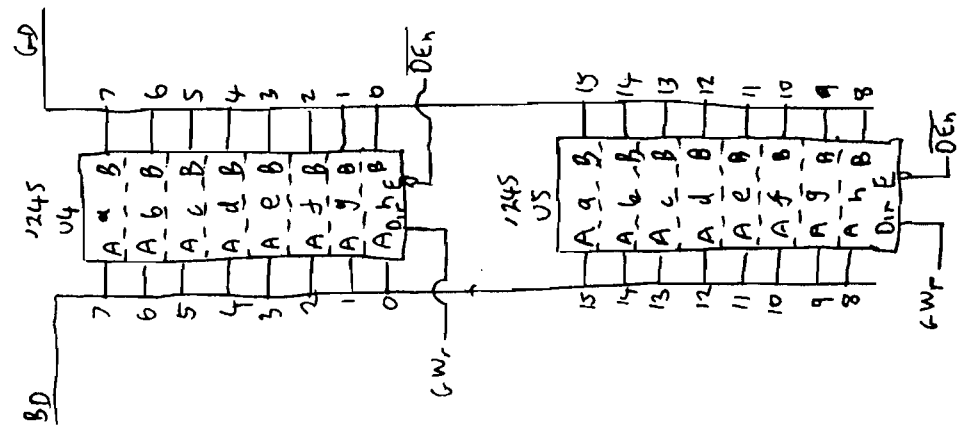
J1

(To Motherboard J12 Cable)

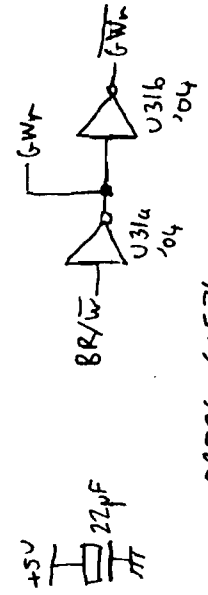


J2

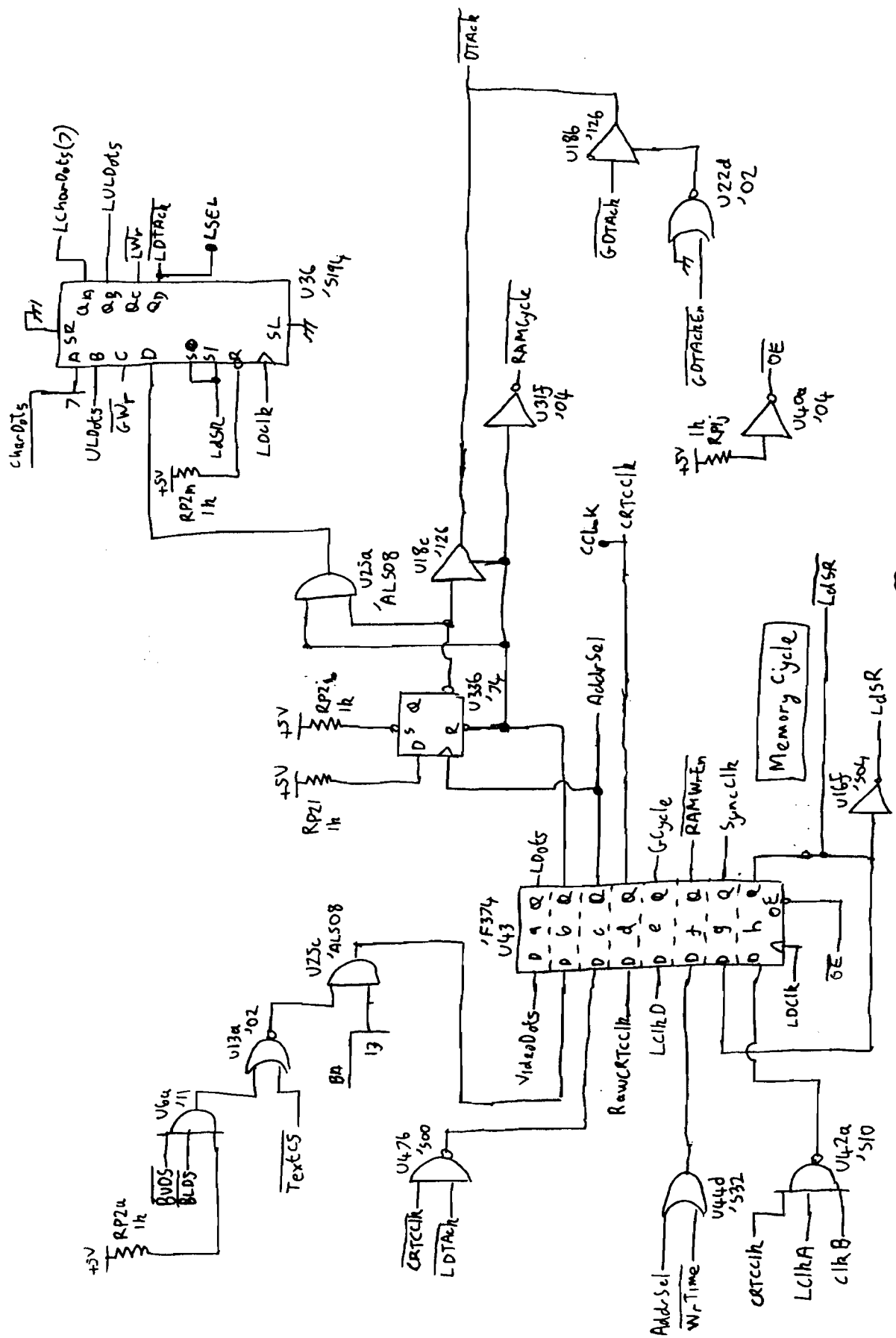
(To Motherboard J13 Cable)

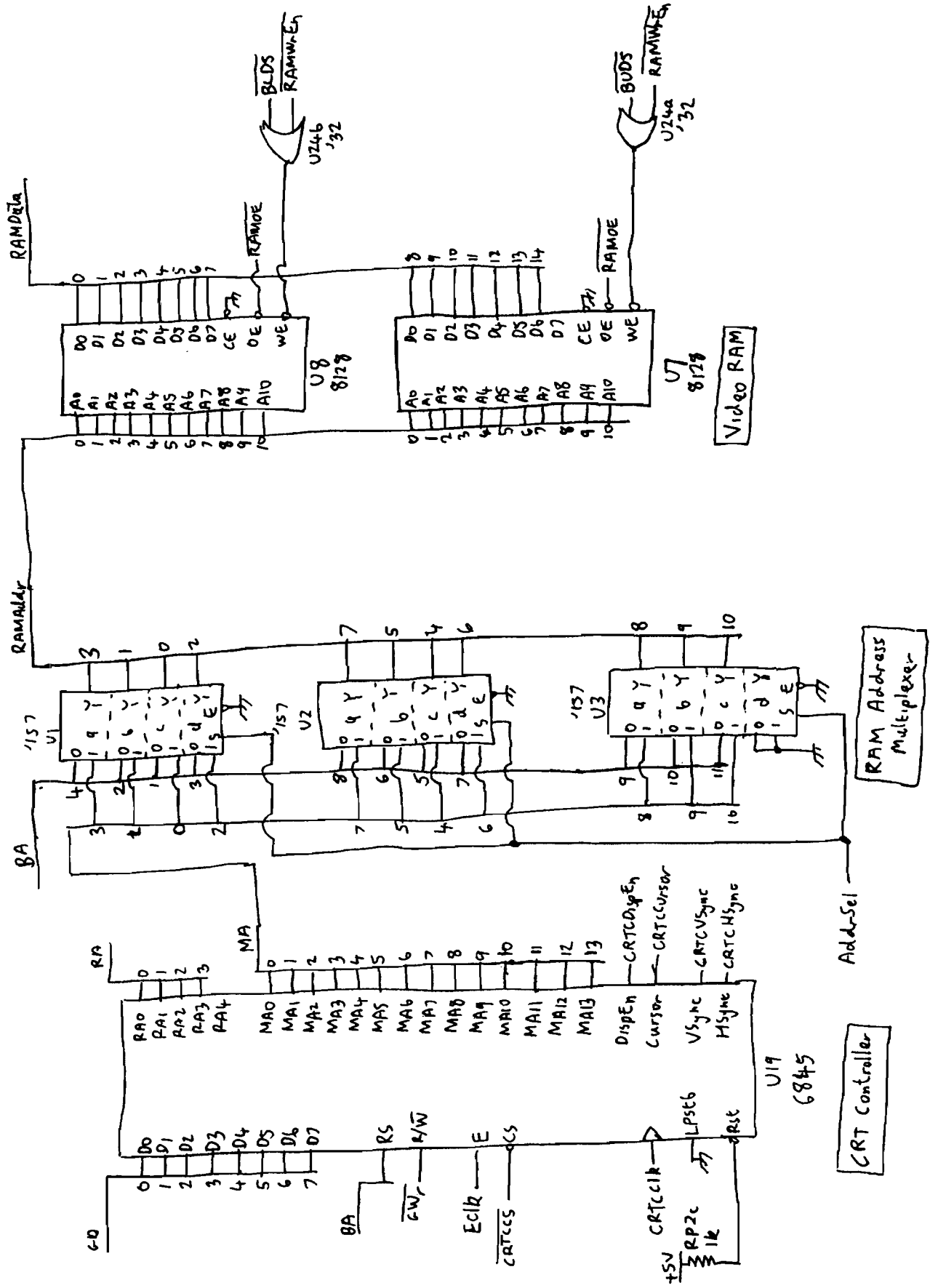


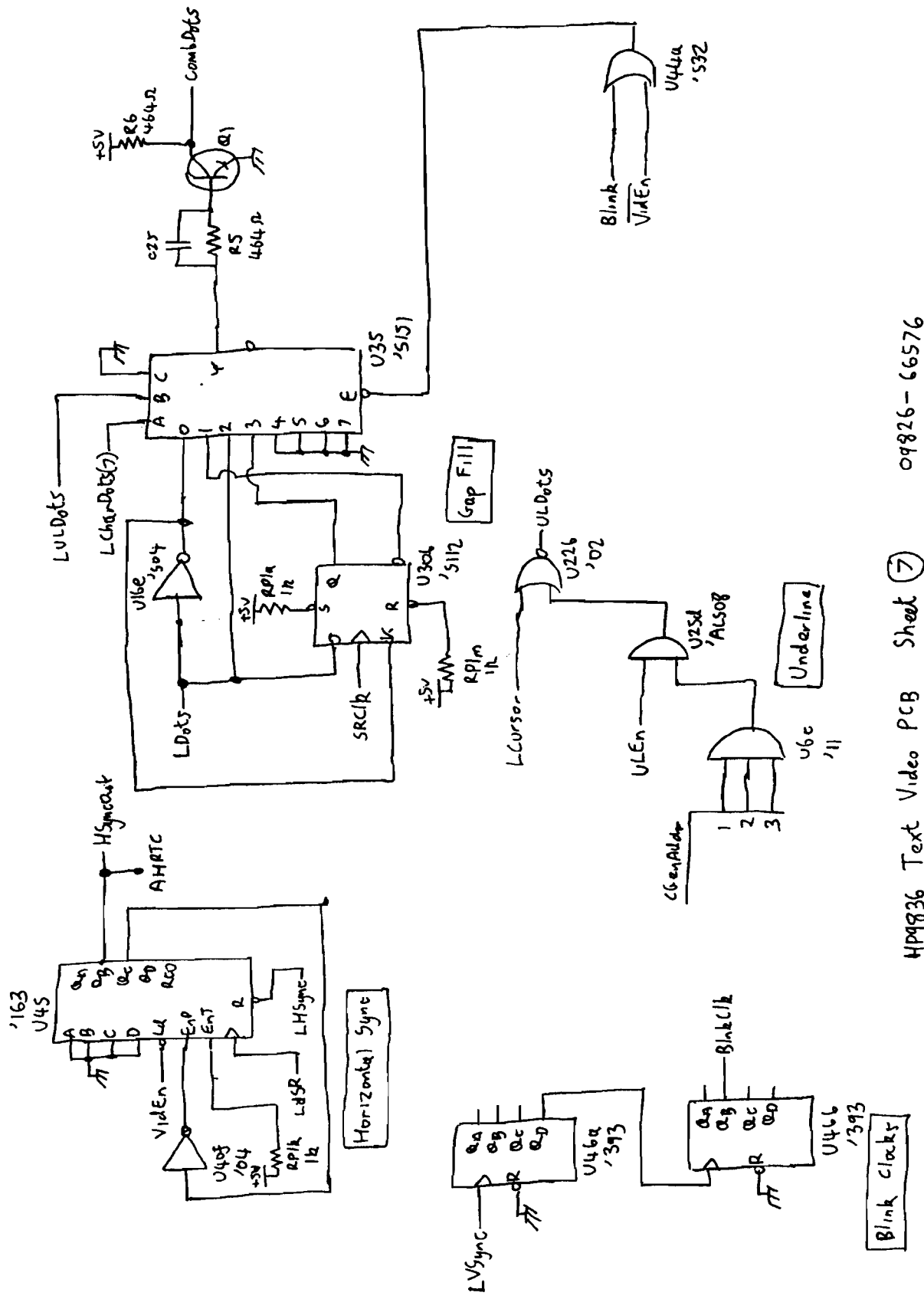
Data Buffer

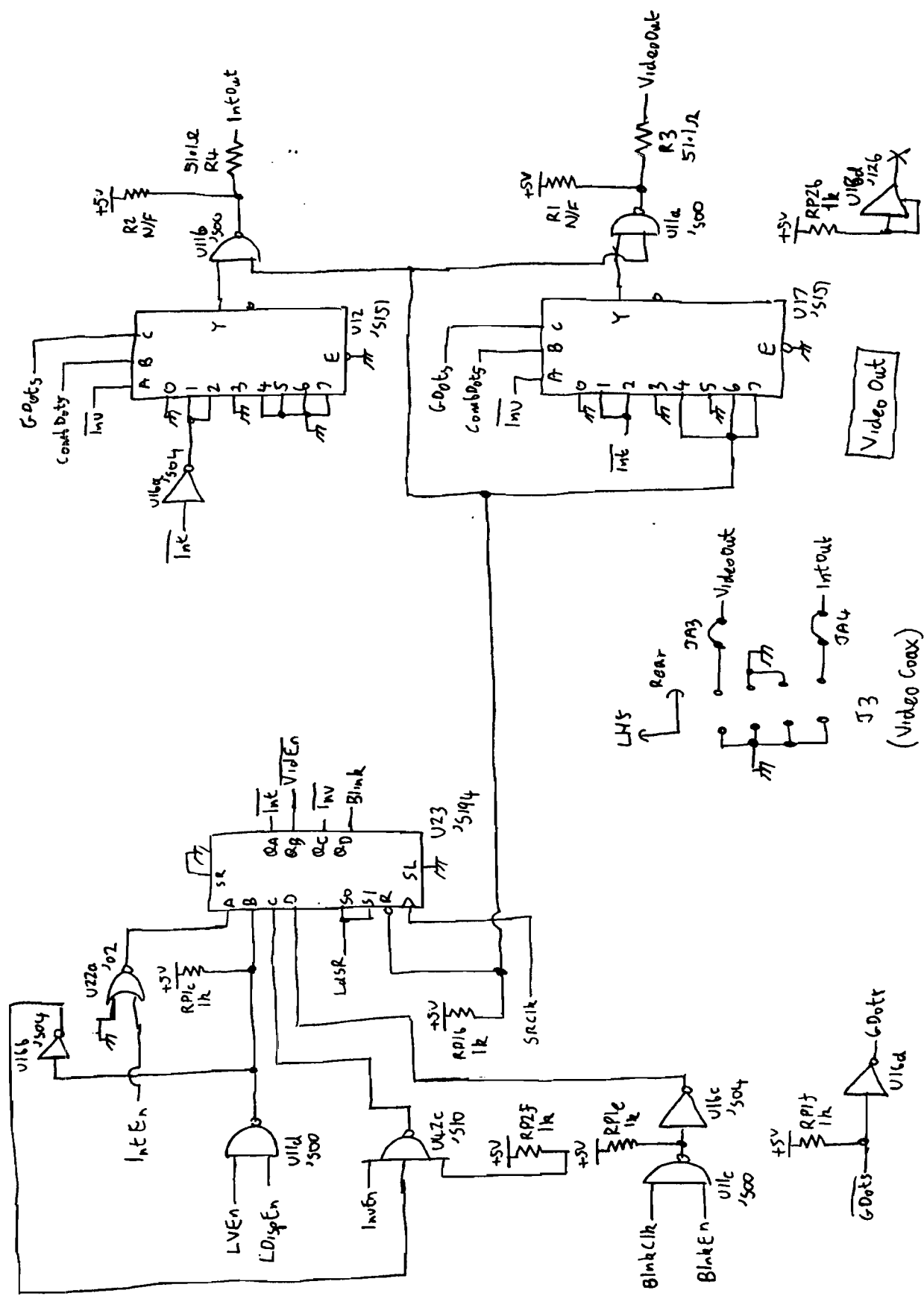


09826-66576

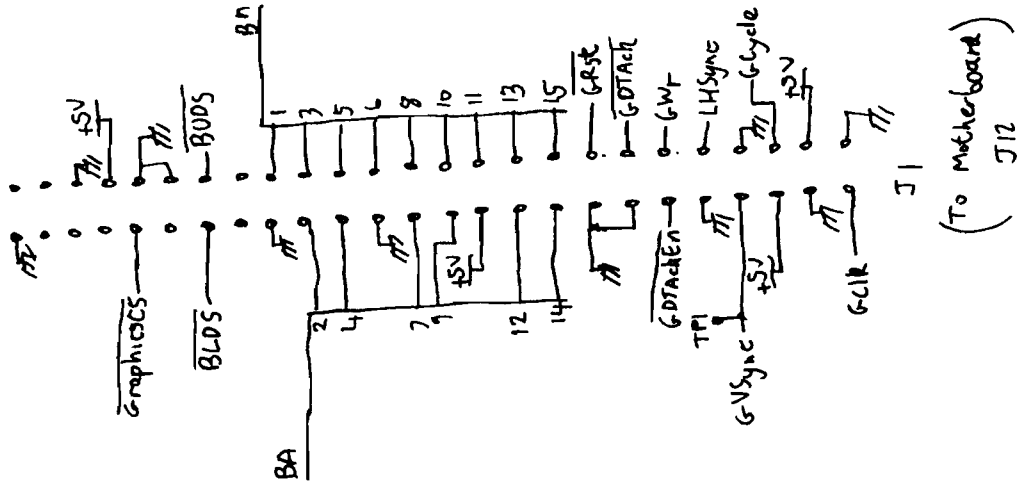




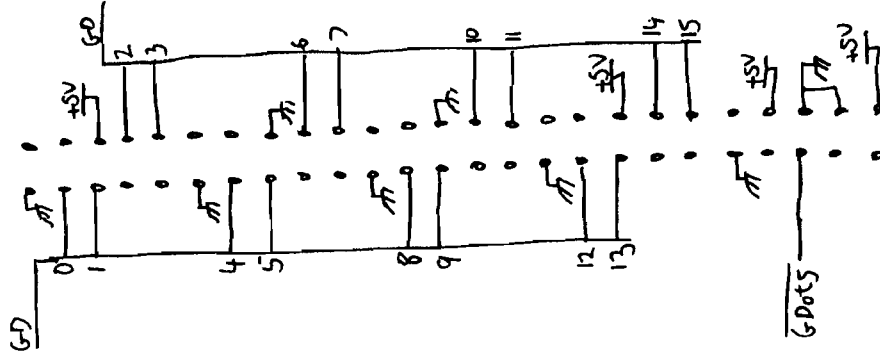
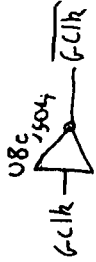




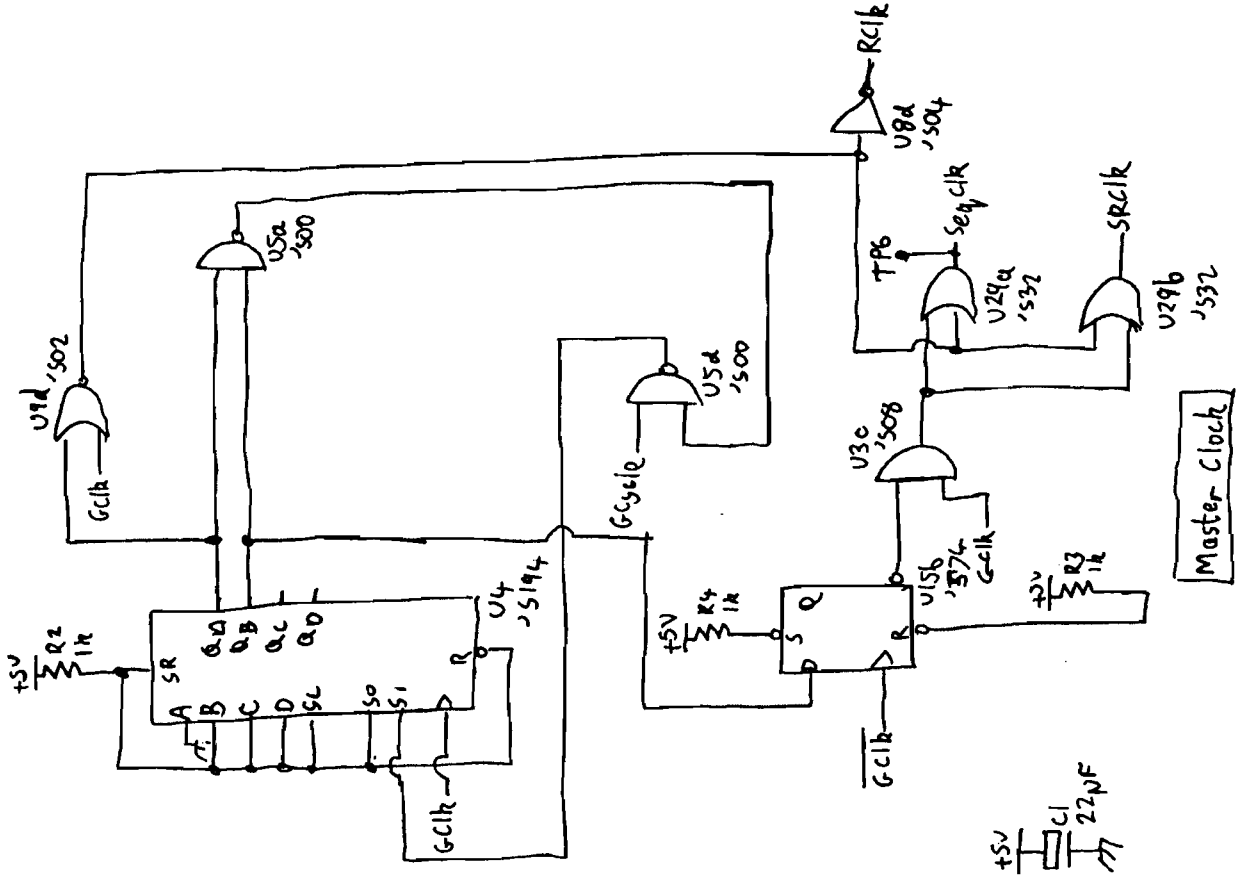
LHS
Top



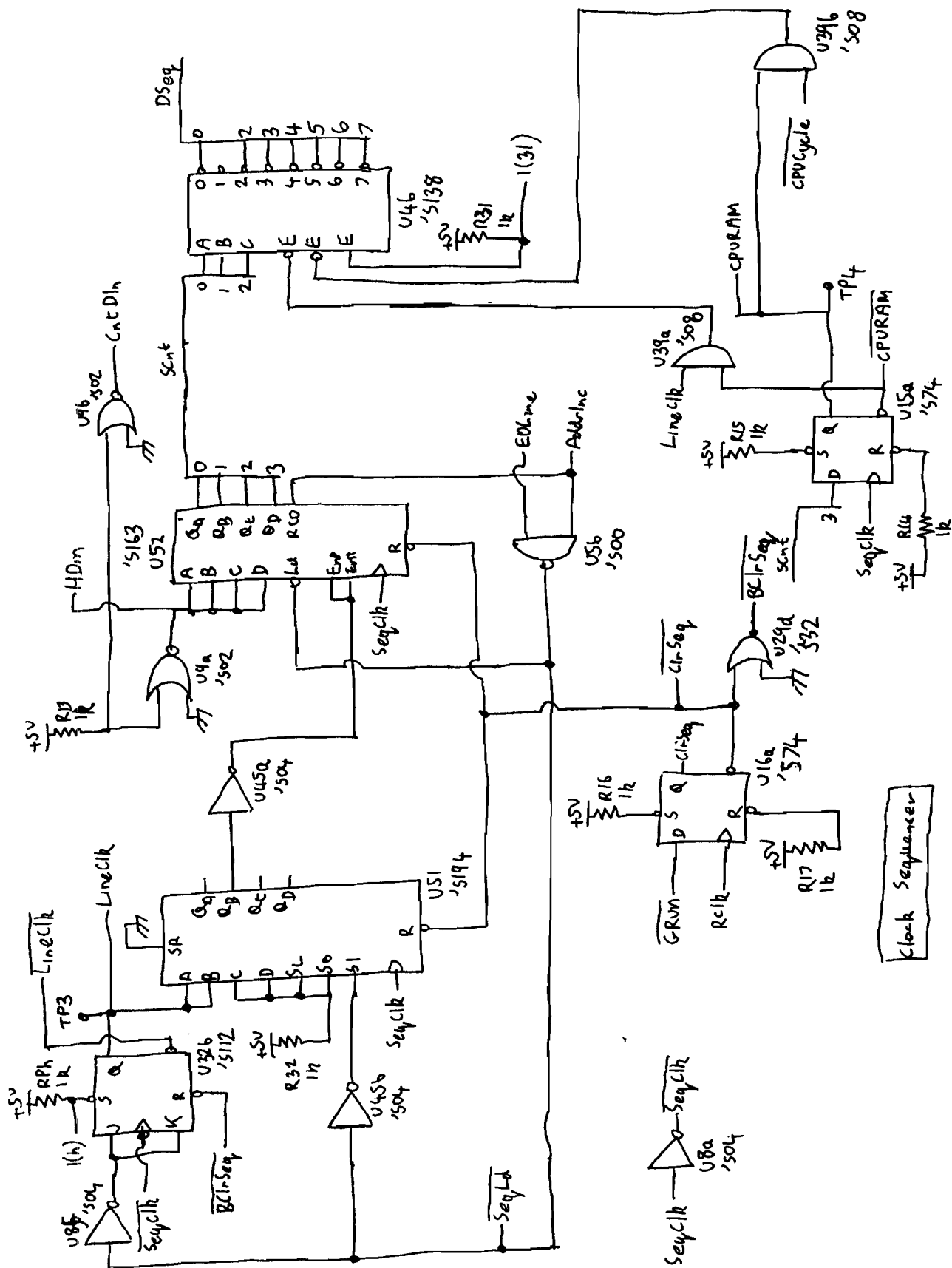
(To Motherboard)
J12



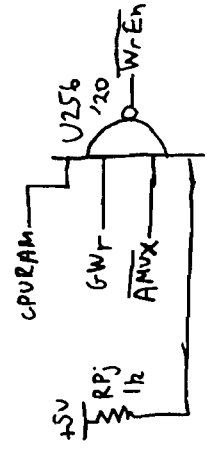
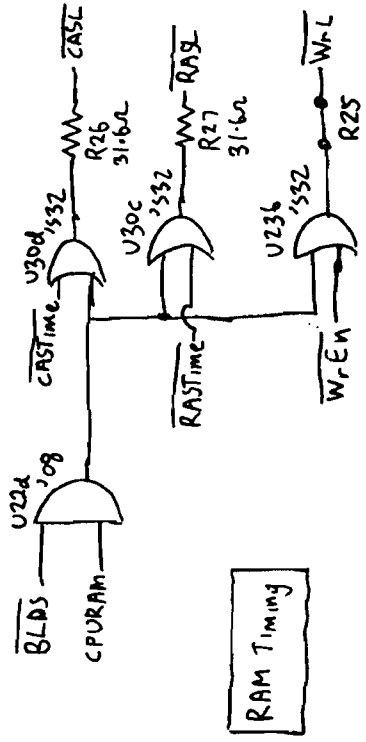
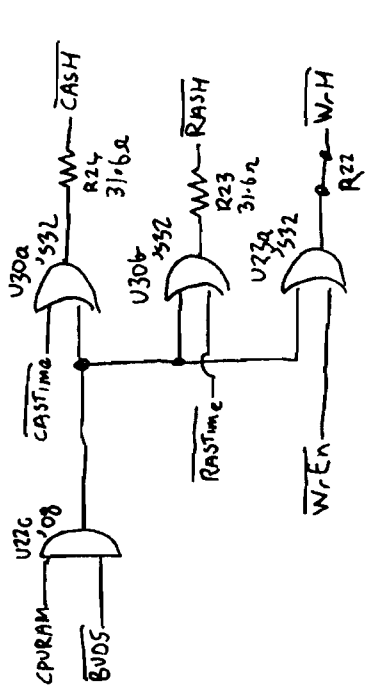
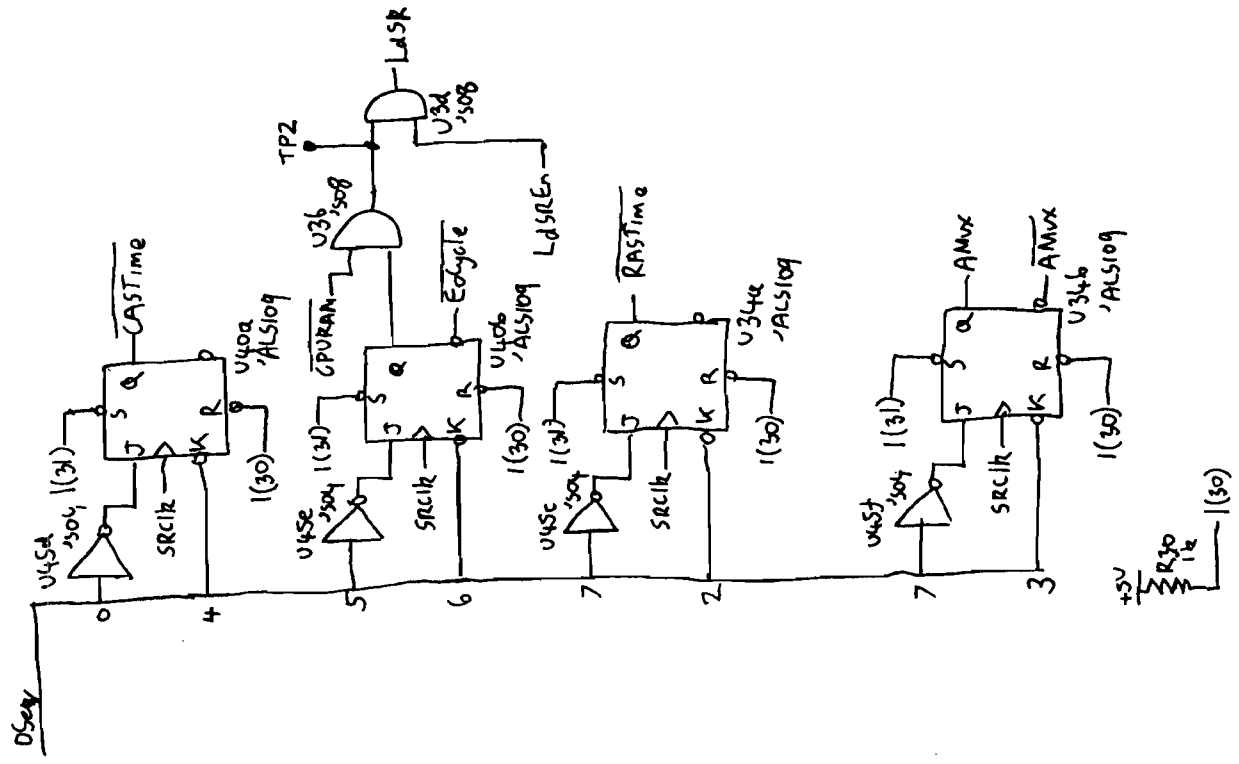
(To Motherboard)
J13

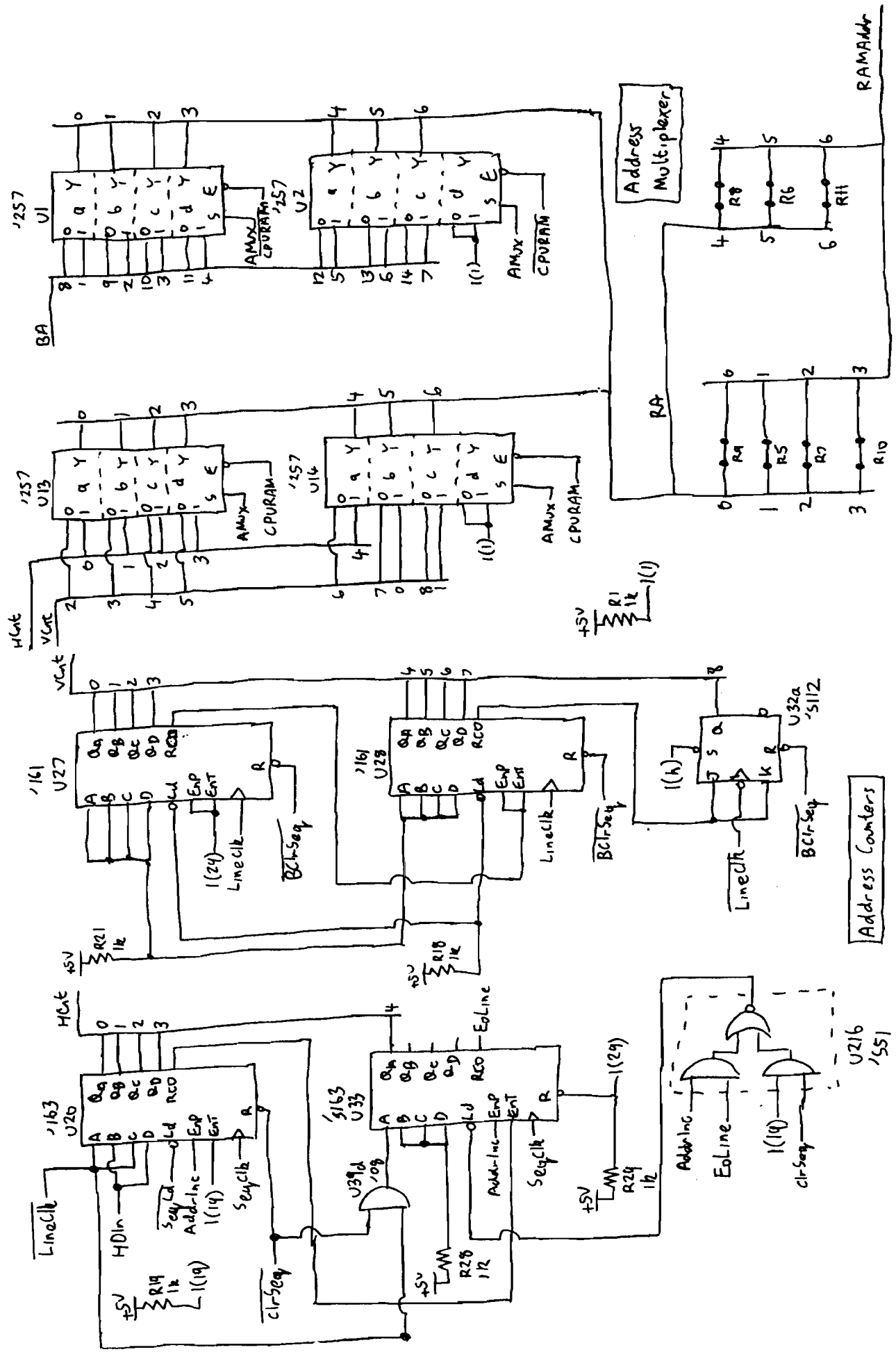


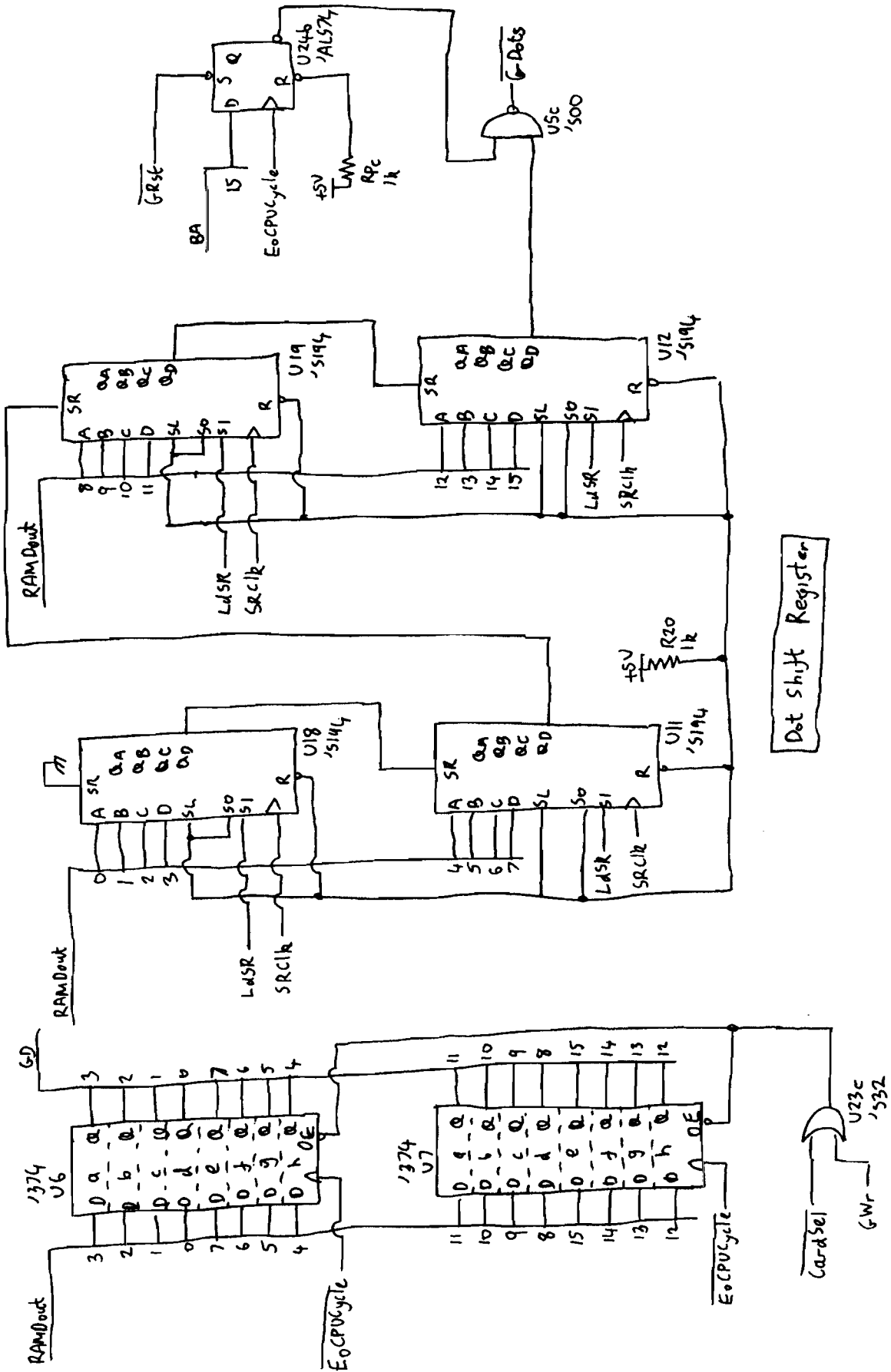
09826-66577

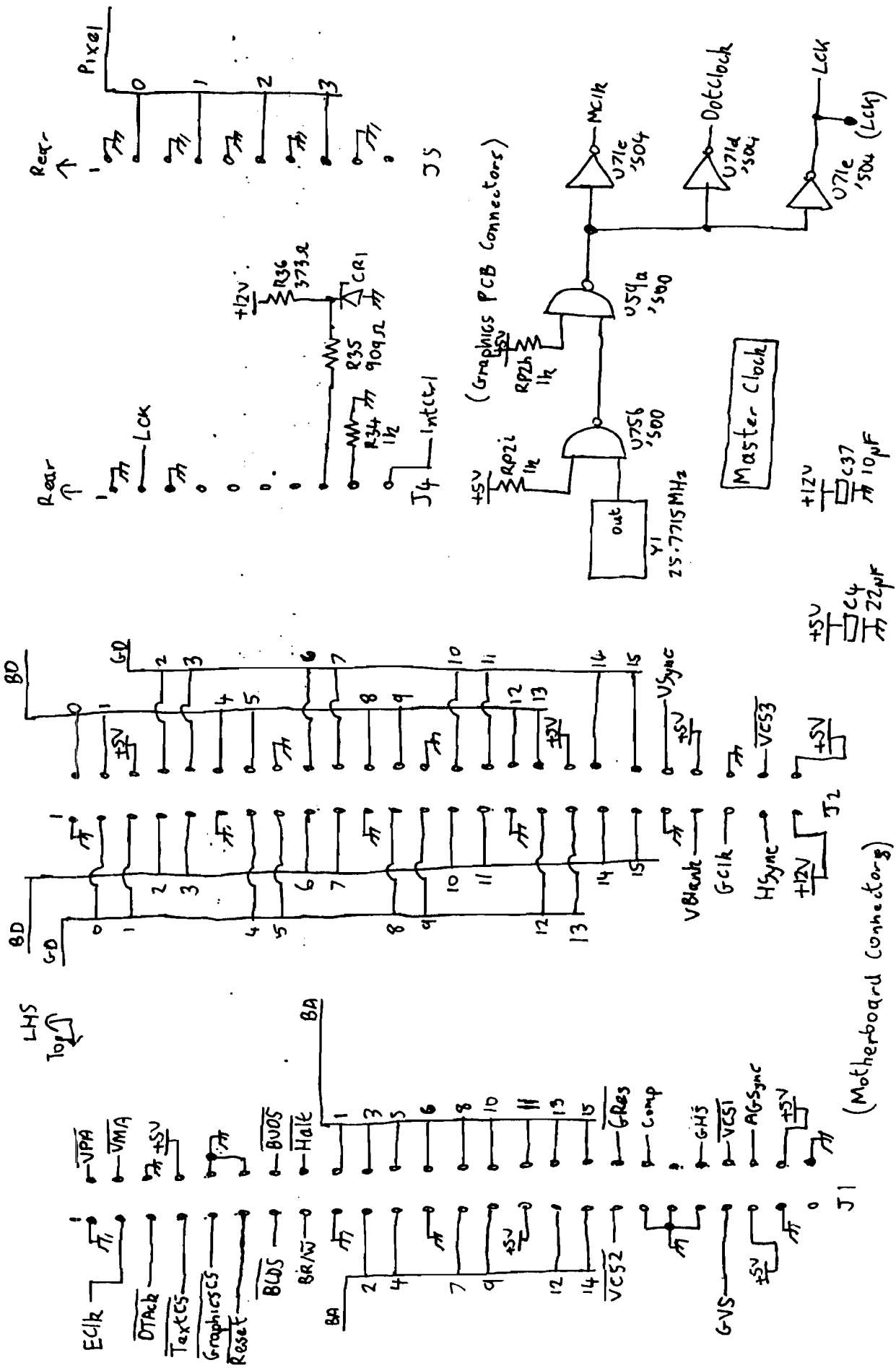


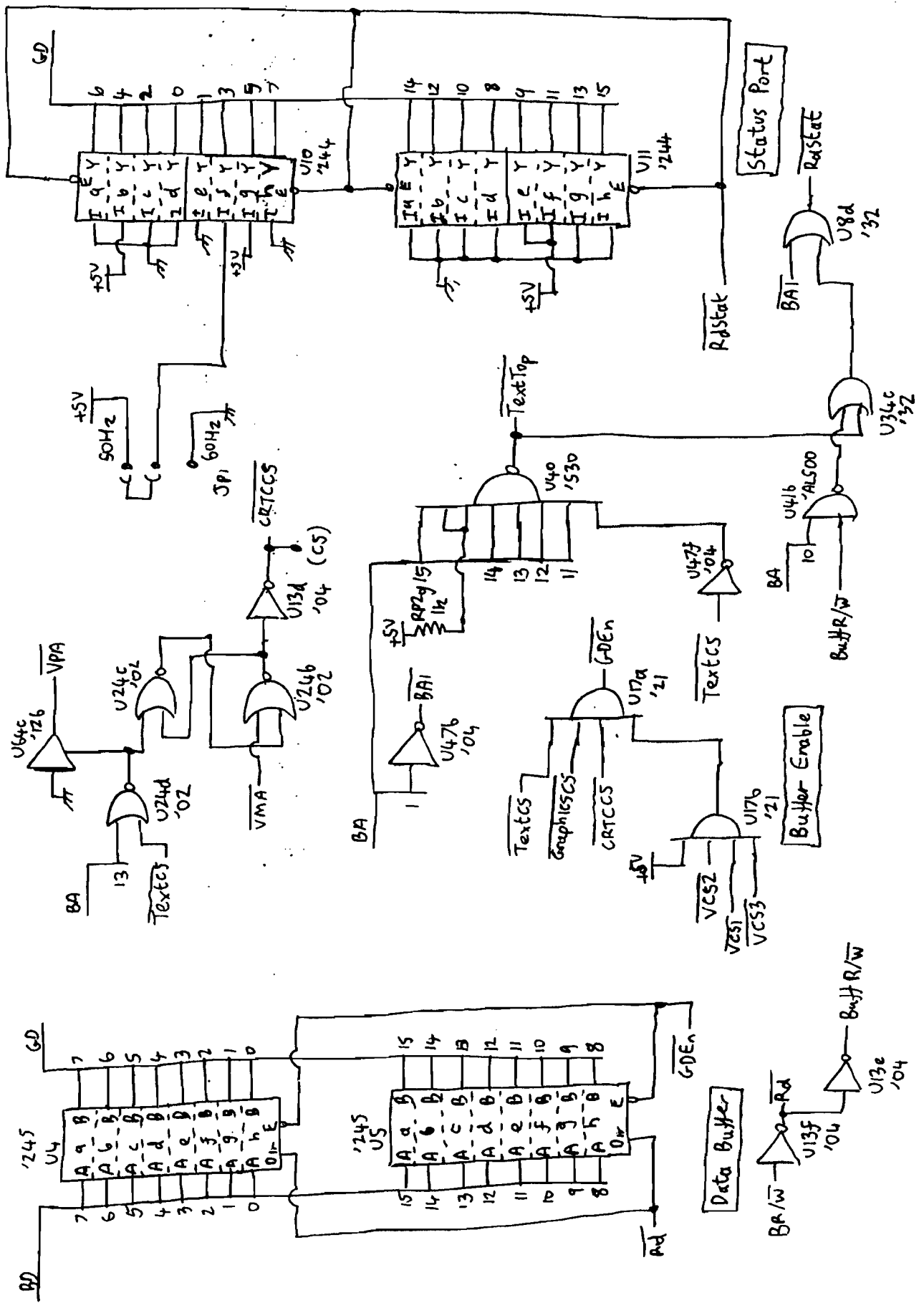


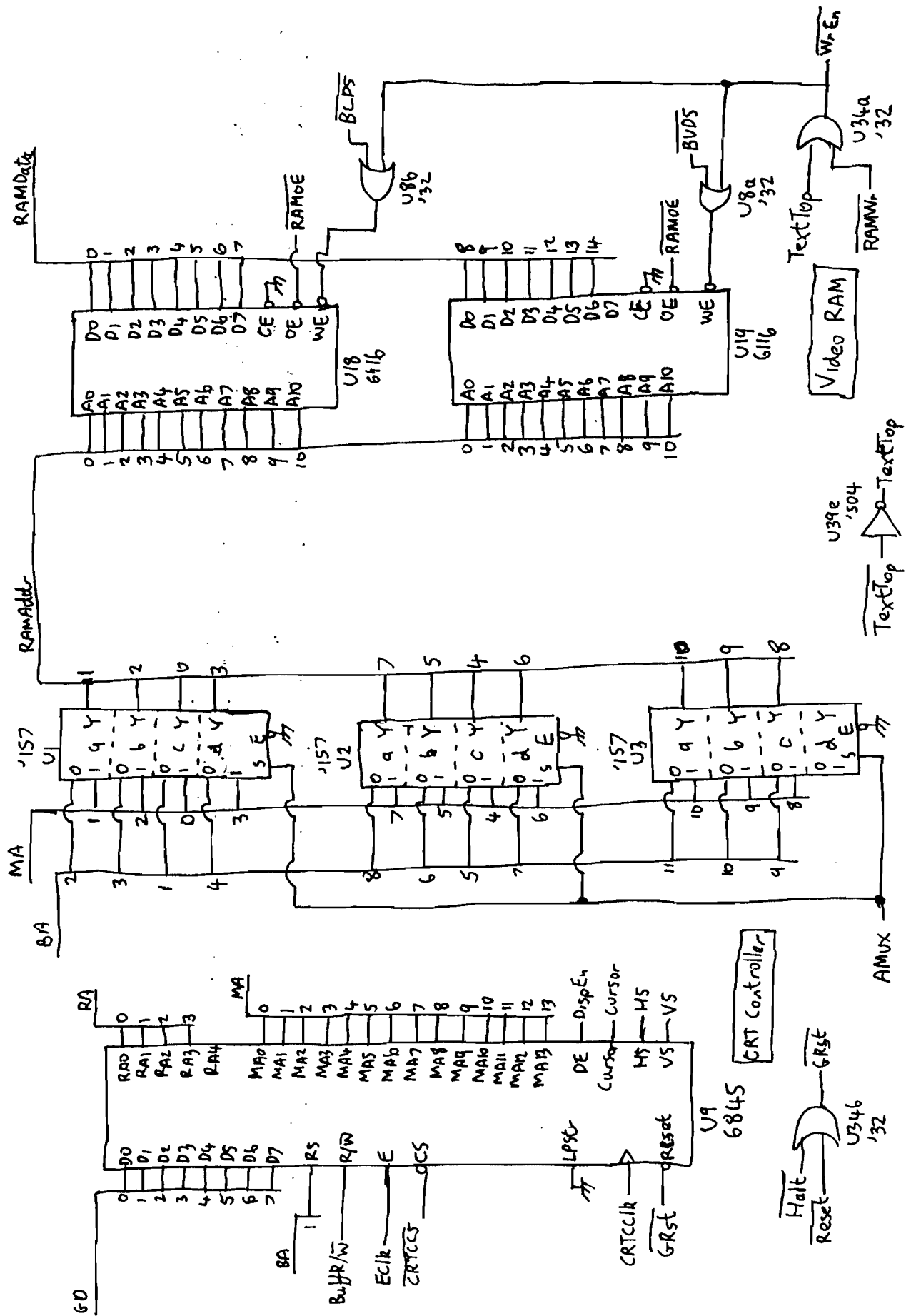


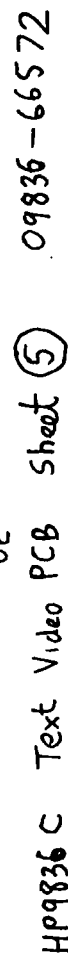


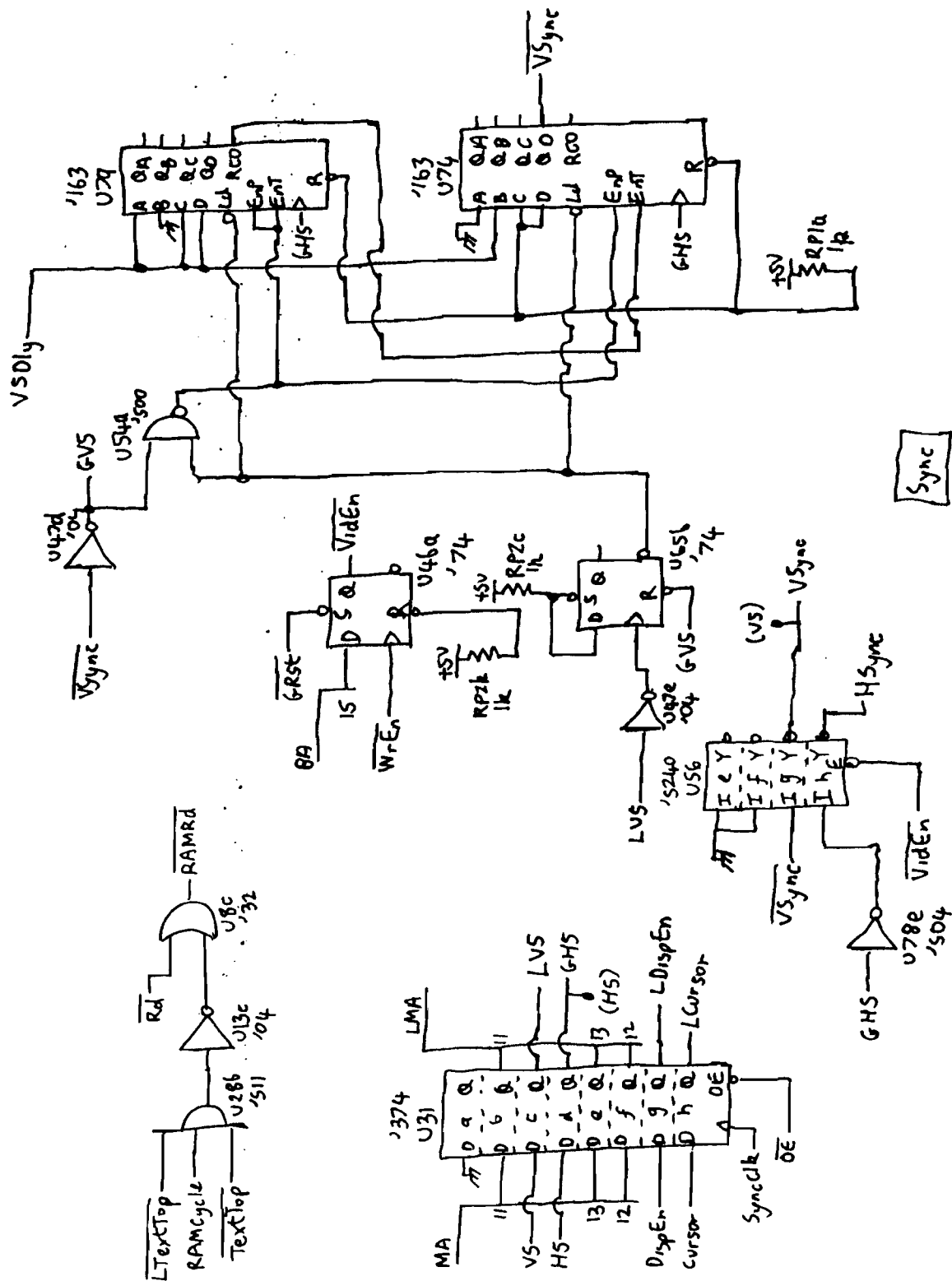


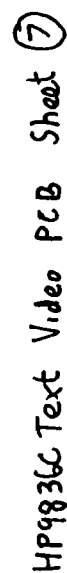


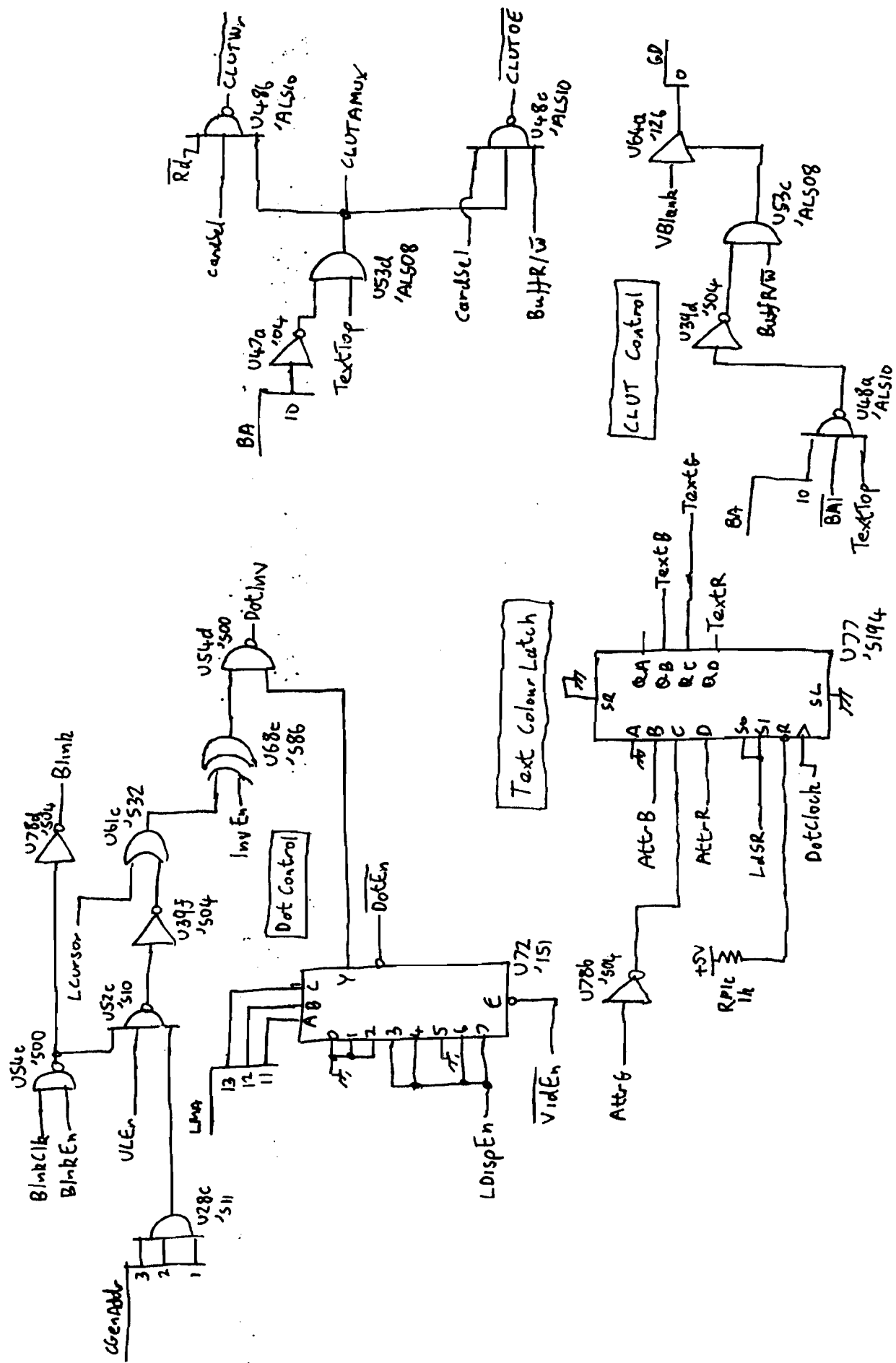


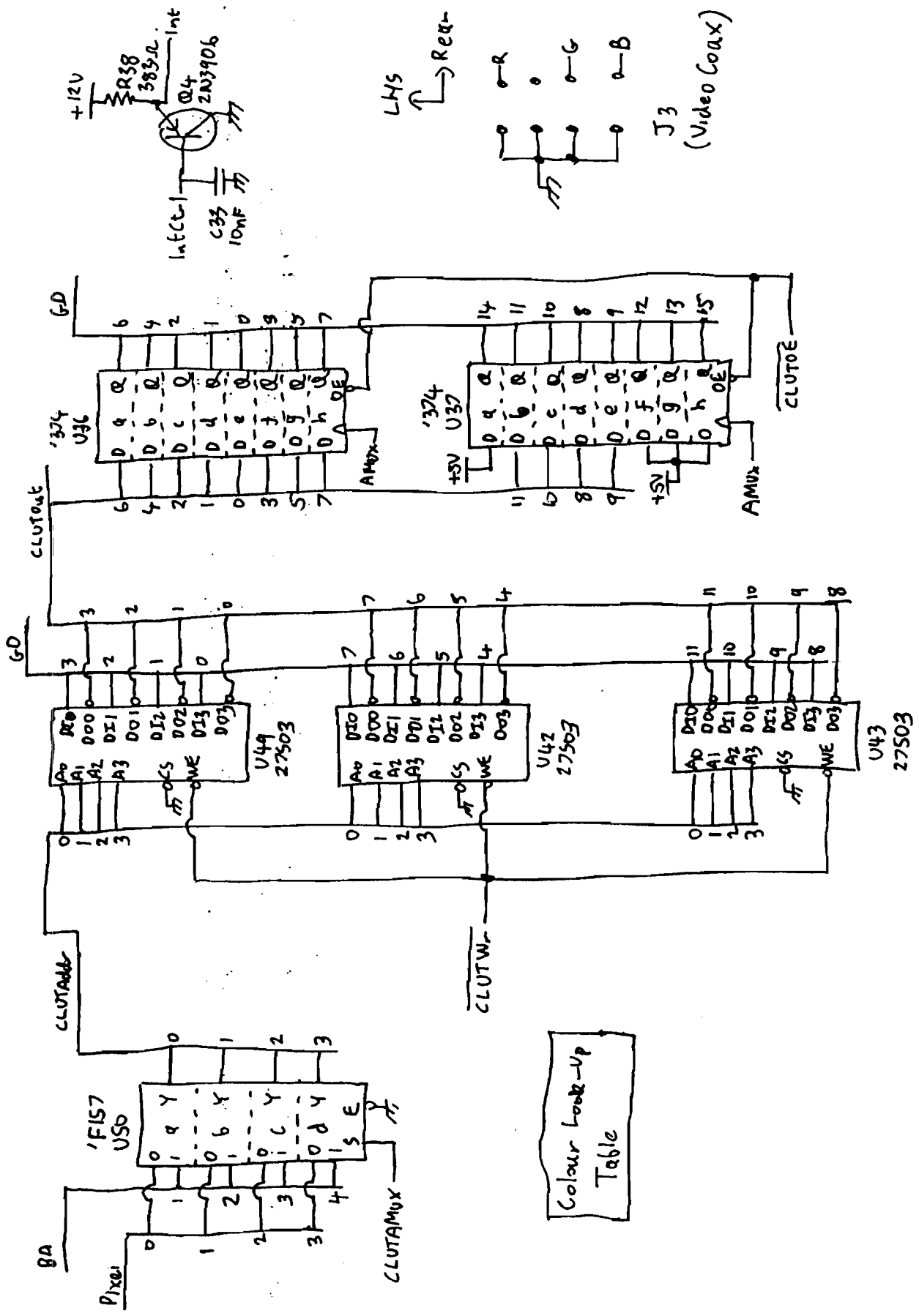


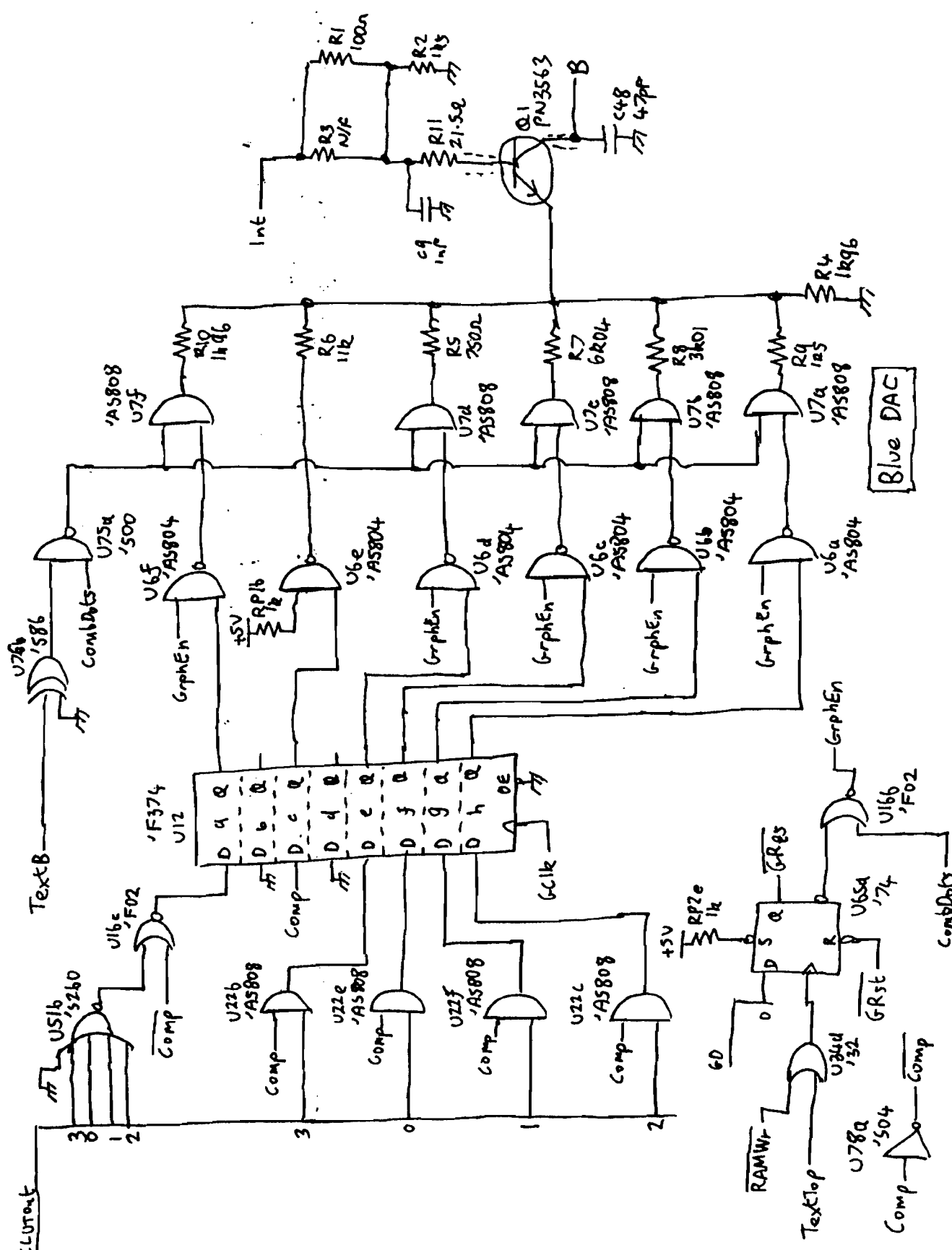


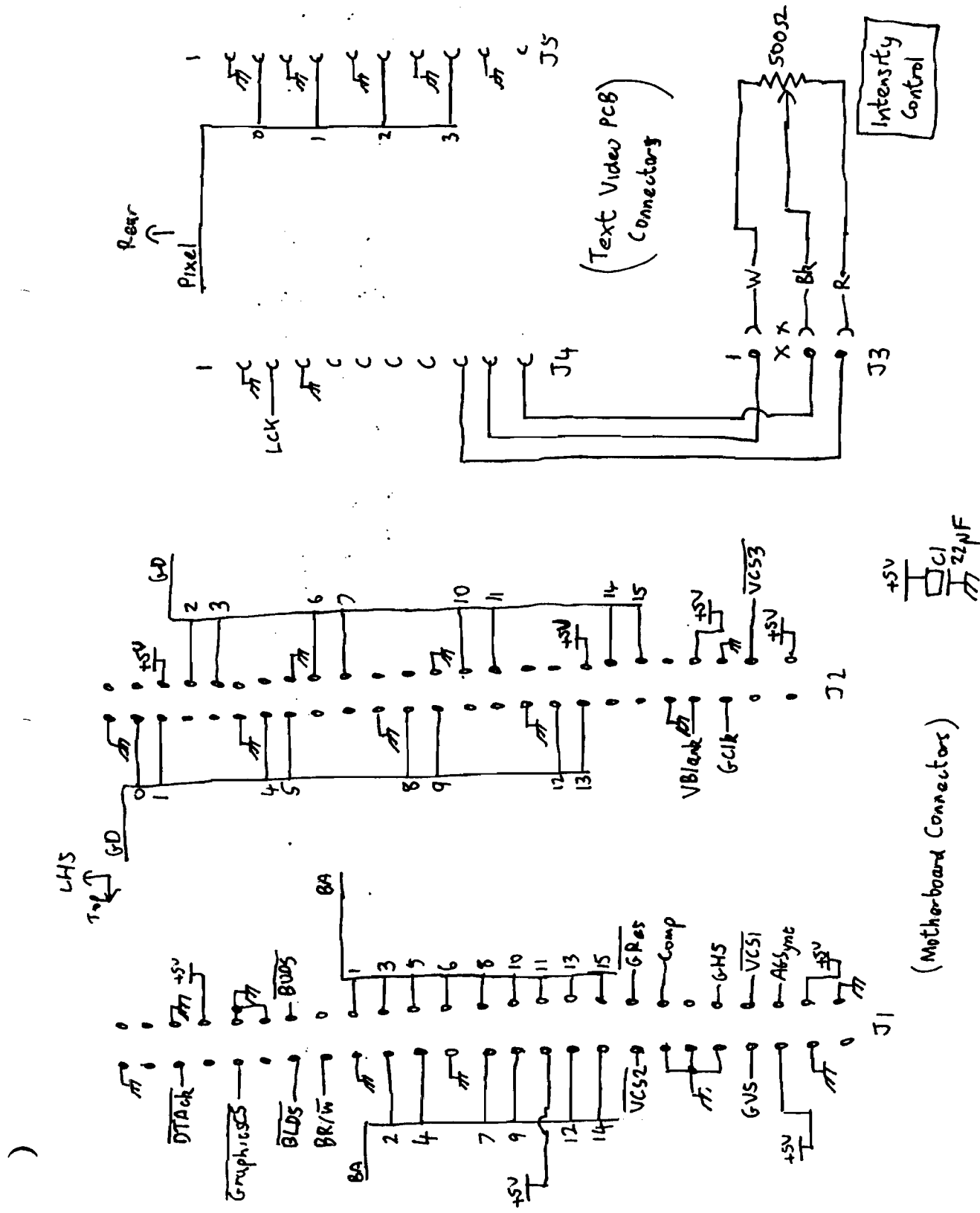


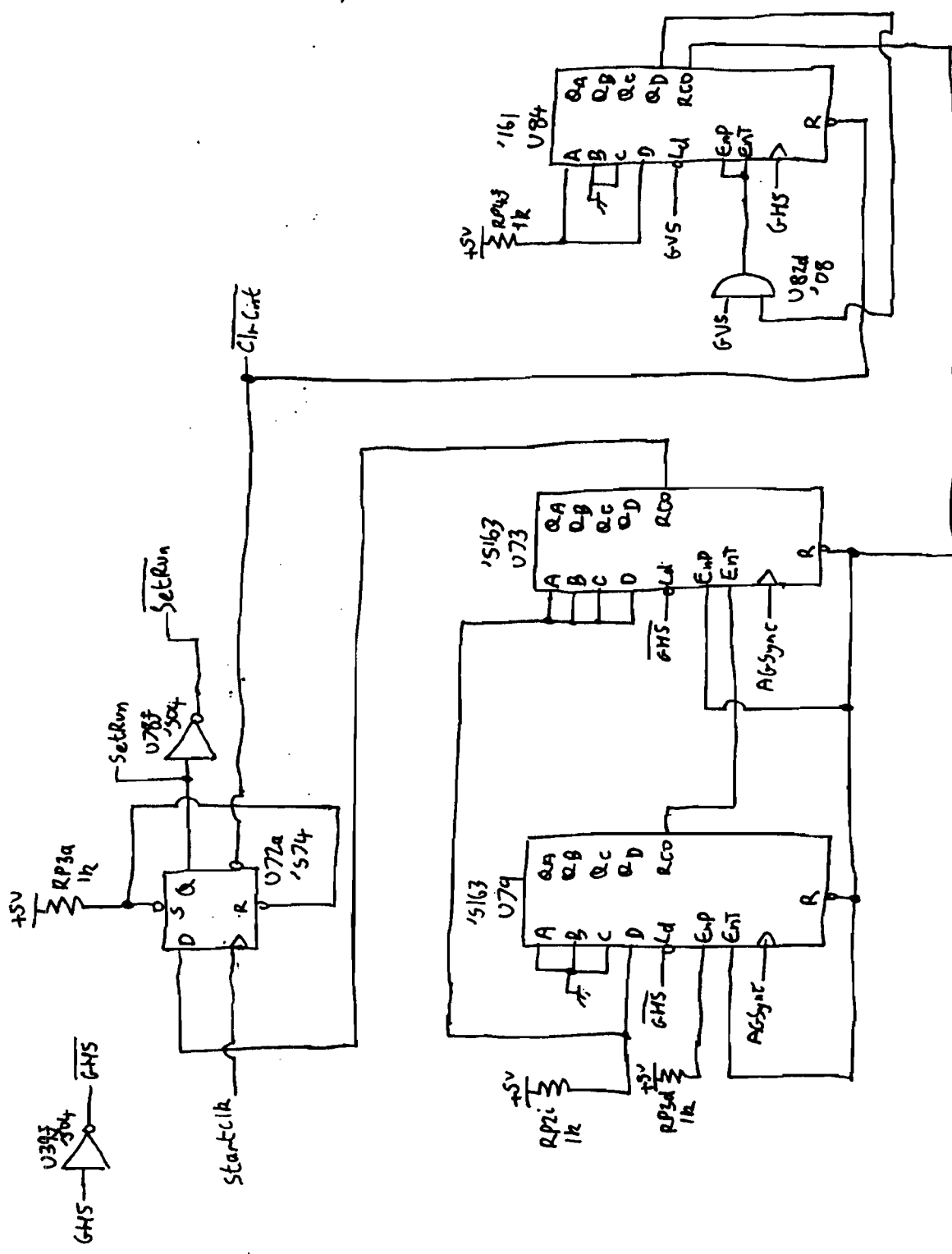




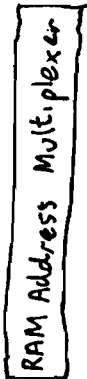


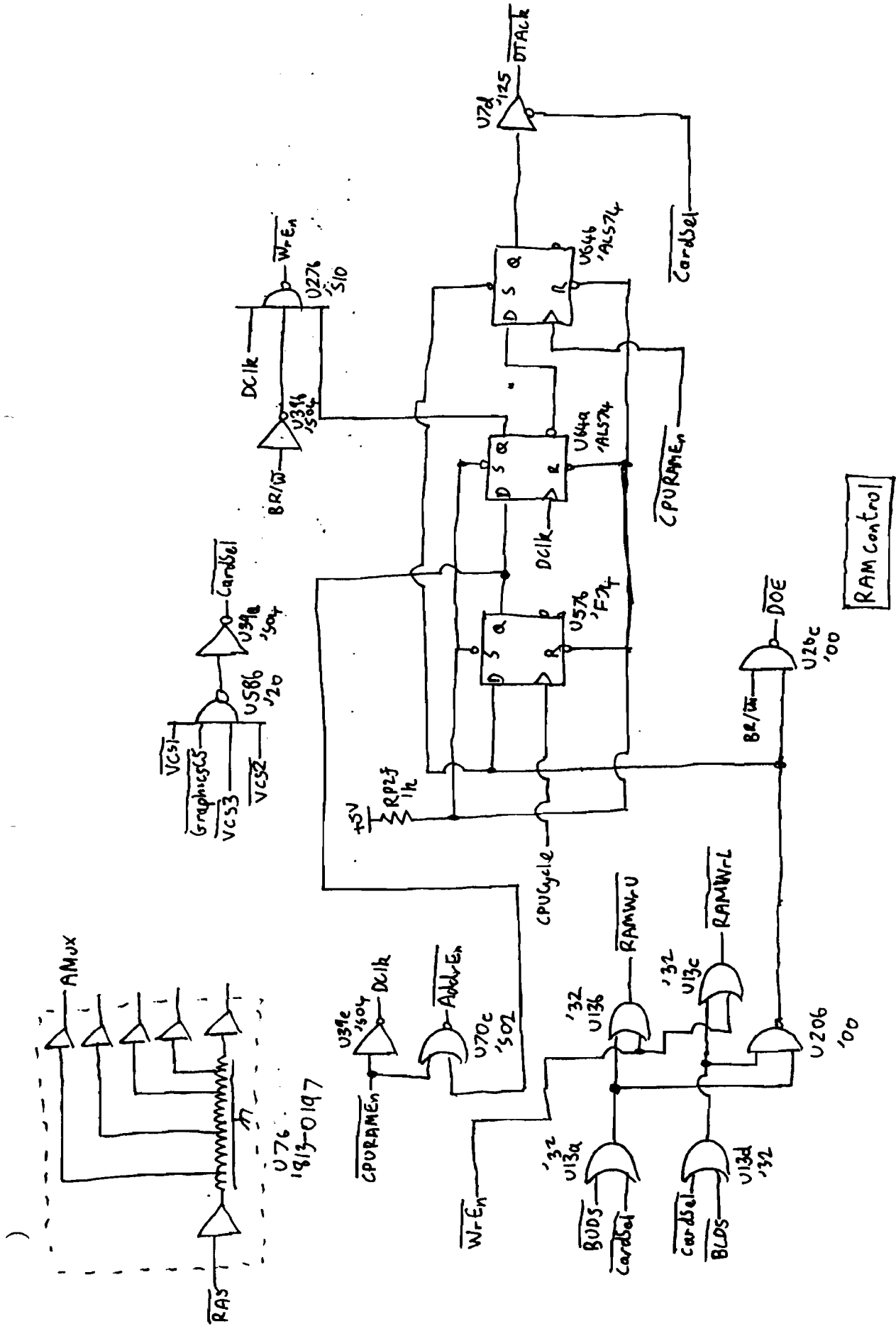


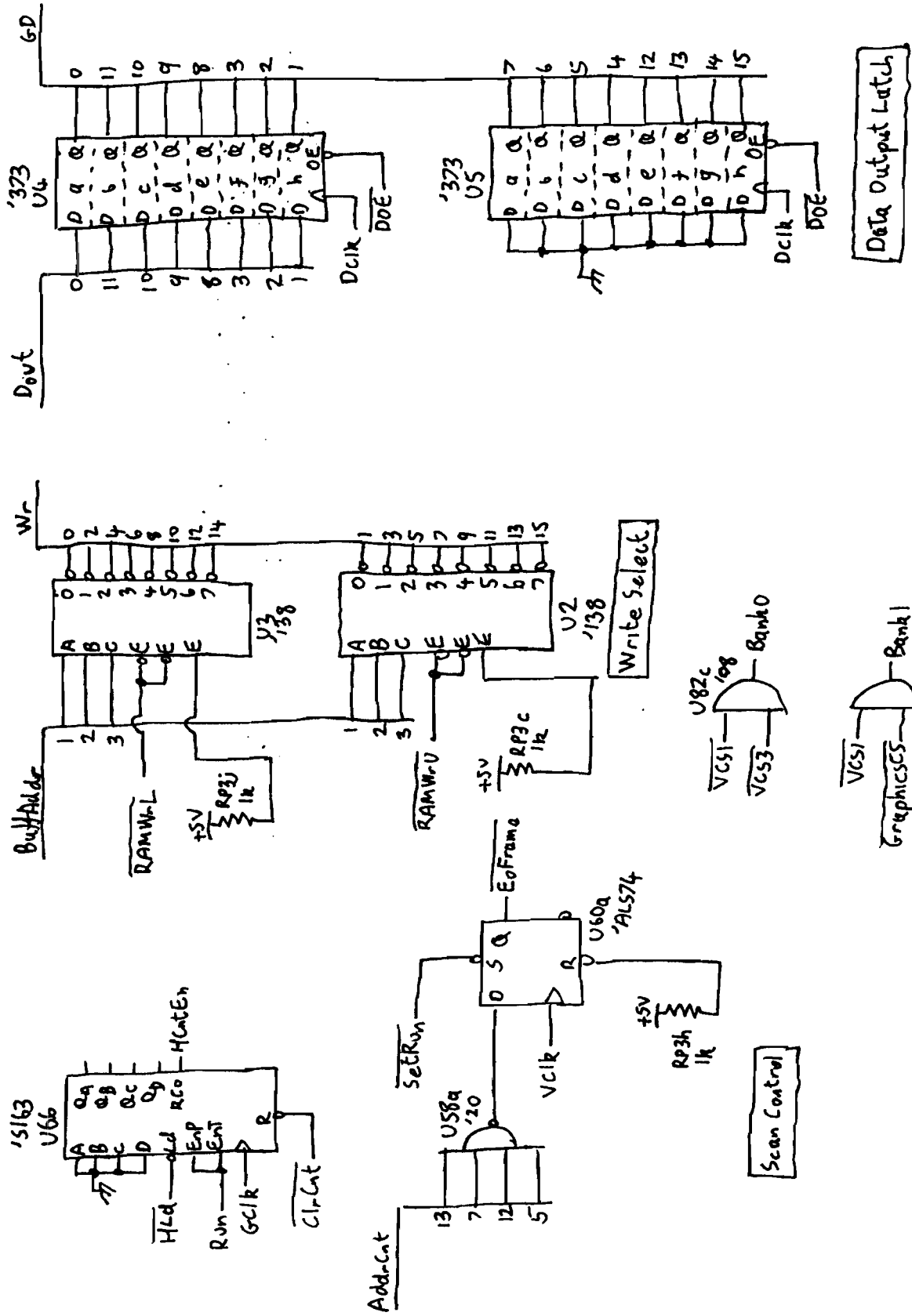


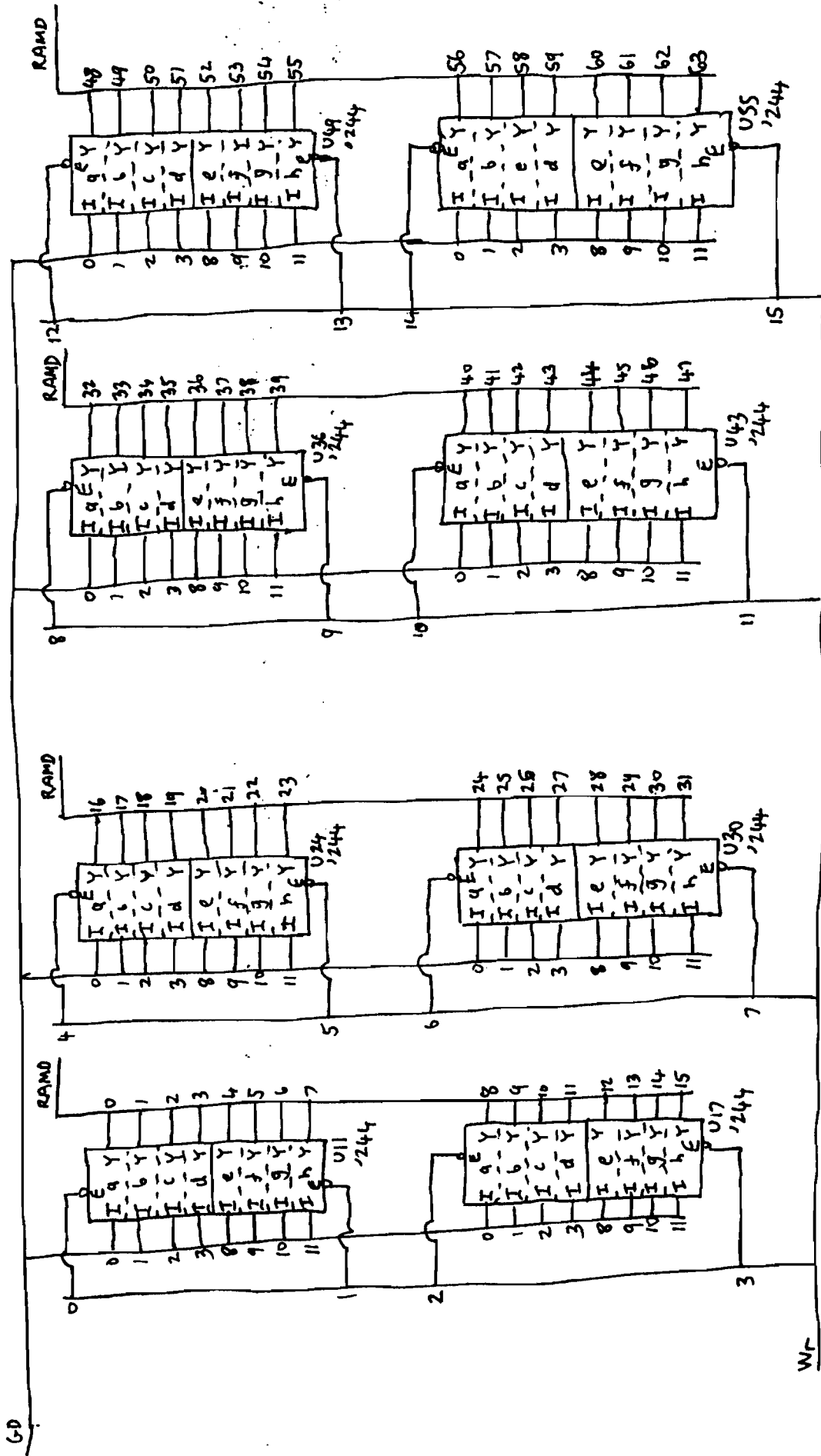


Display start

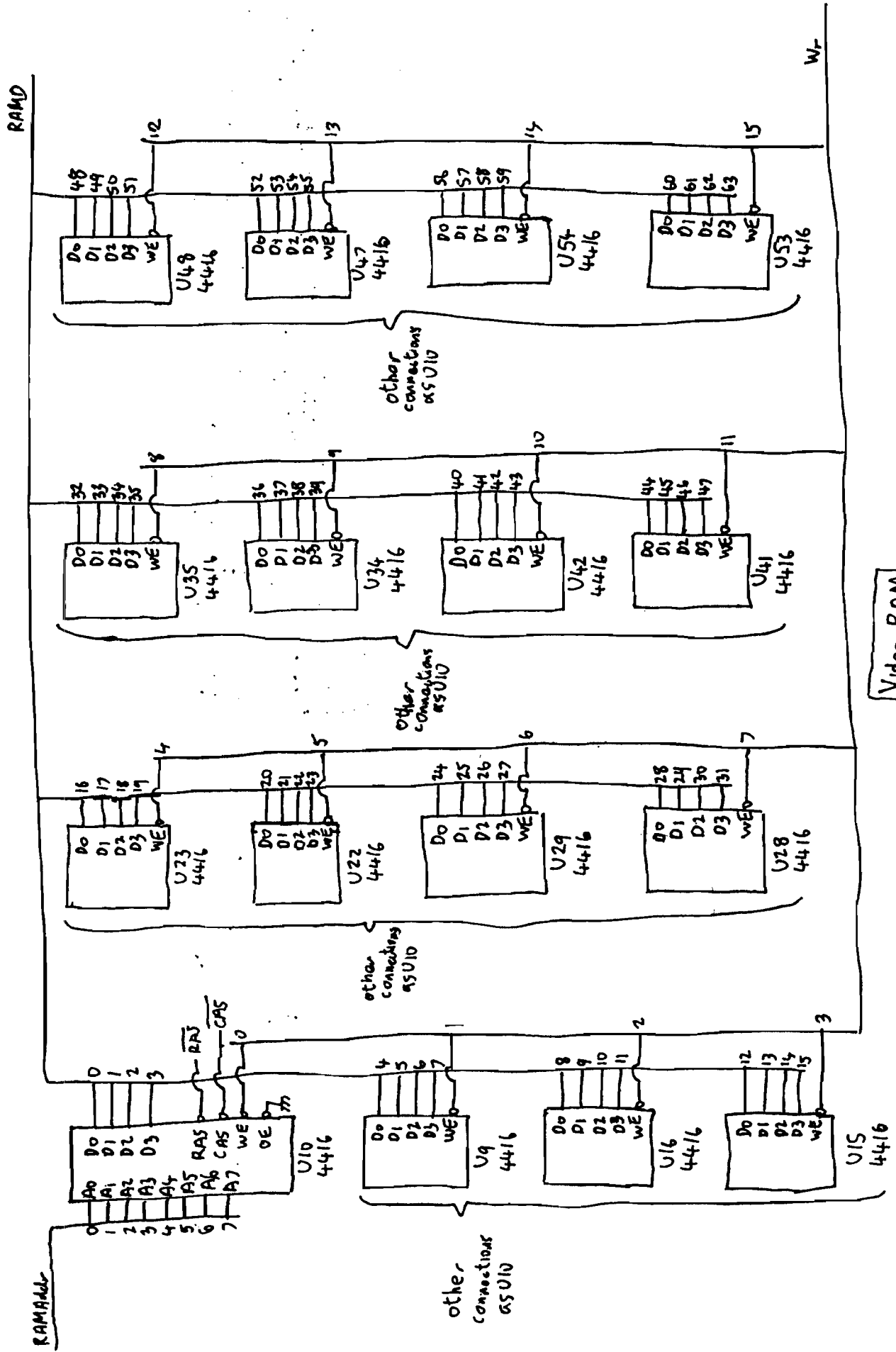




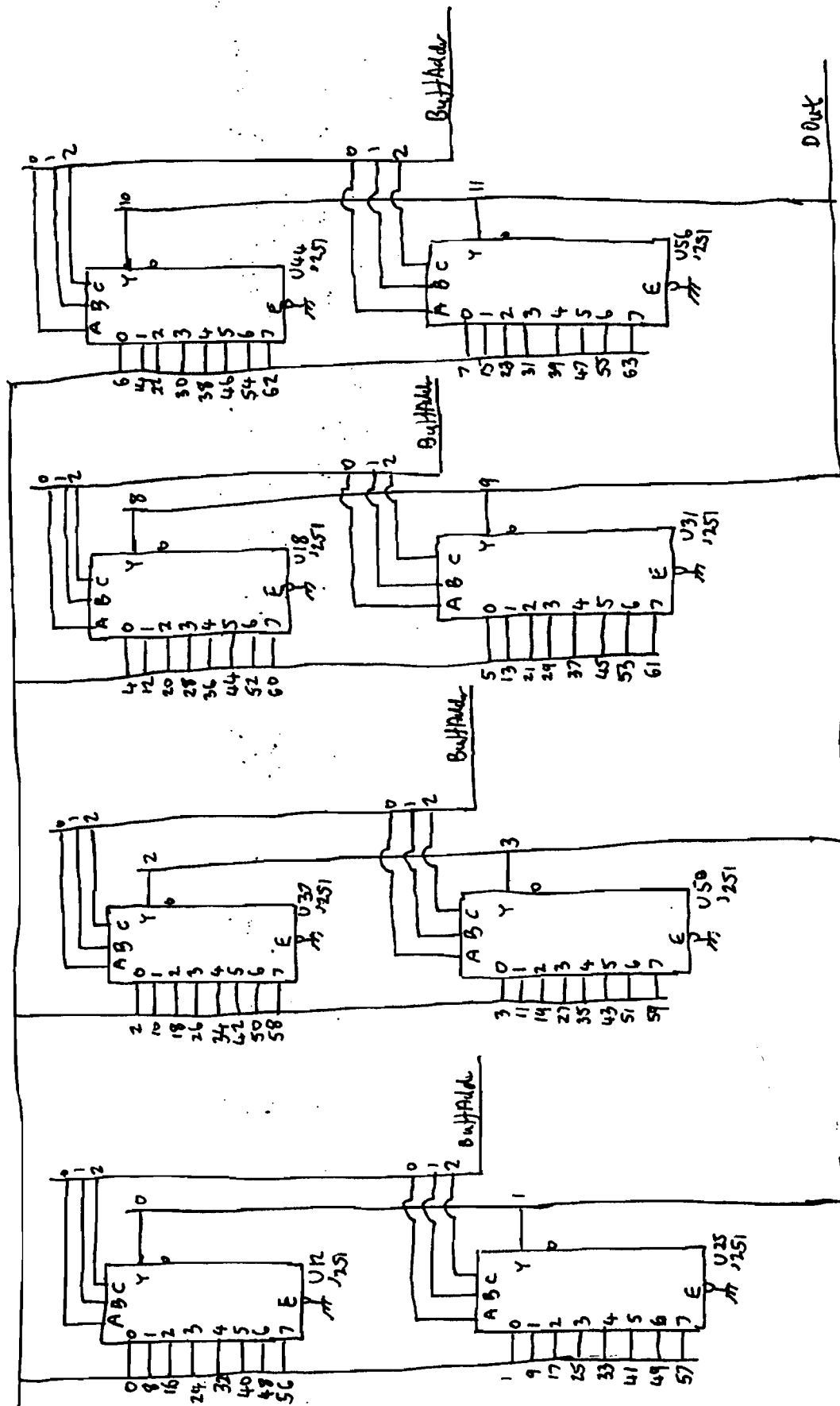




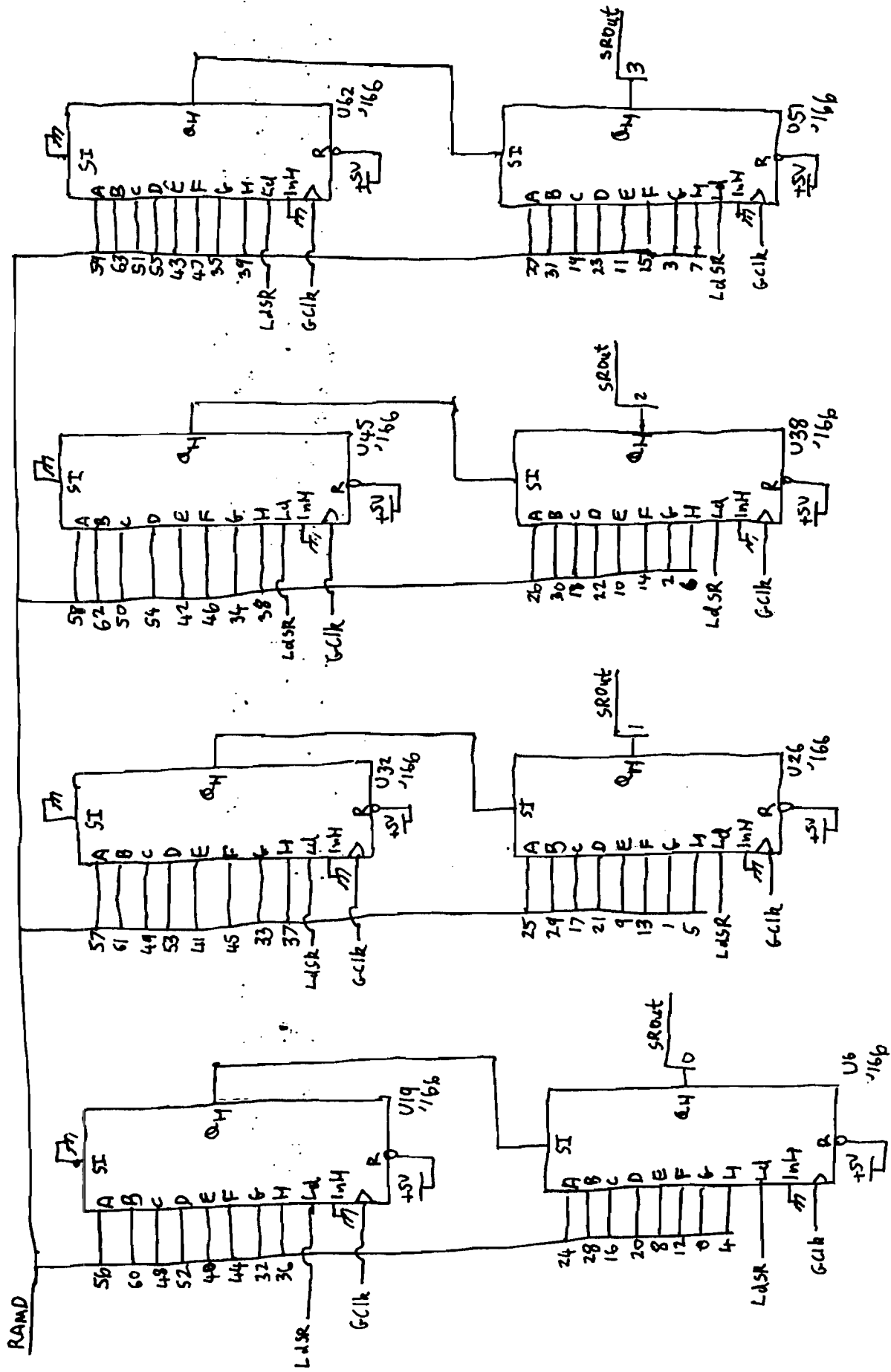
RAM Input Buffers



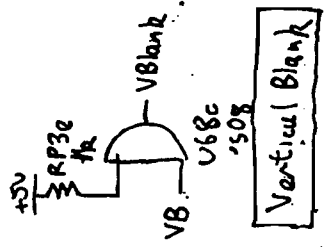
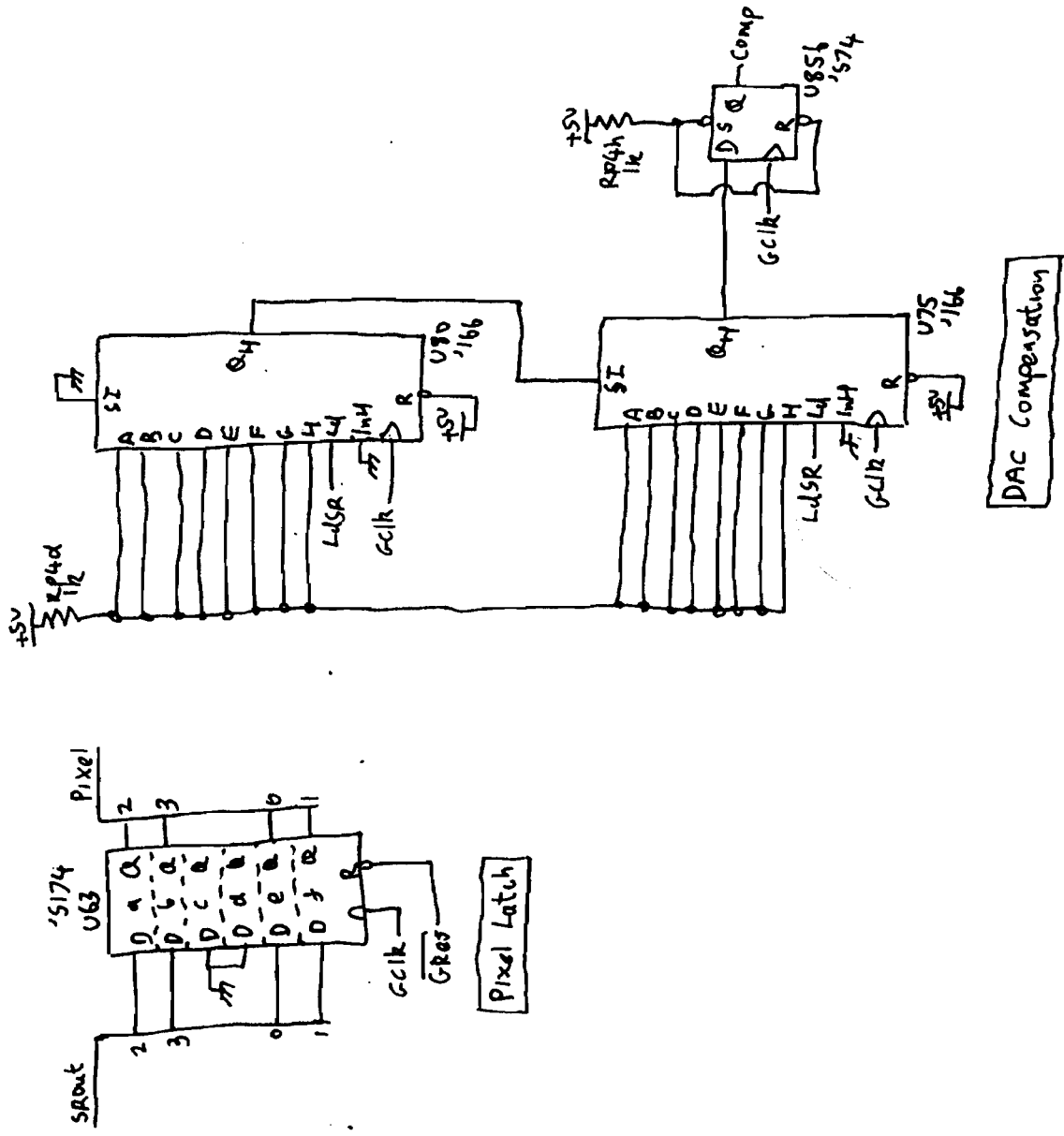
RAND

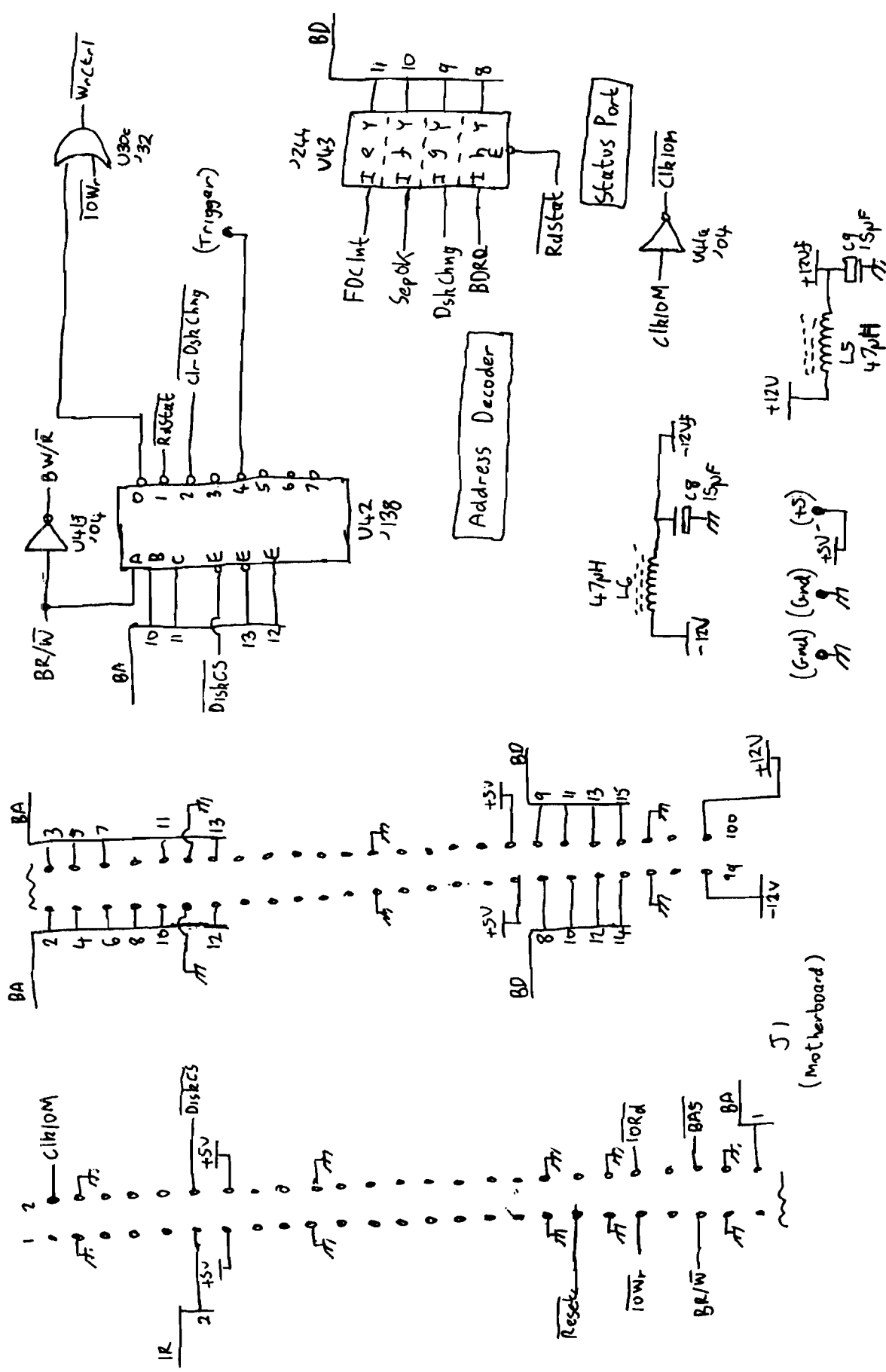


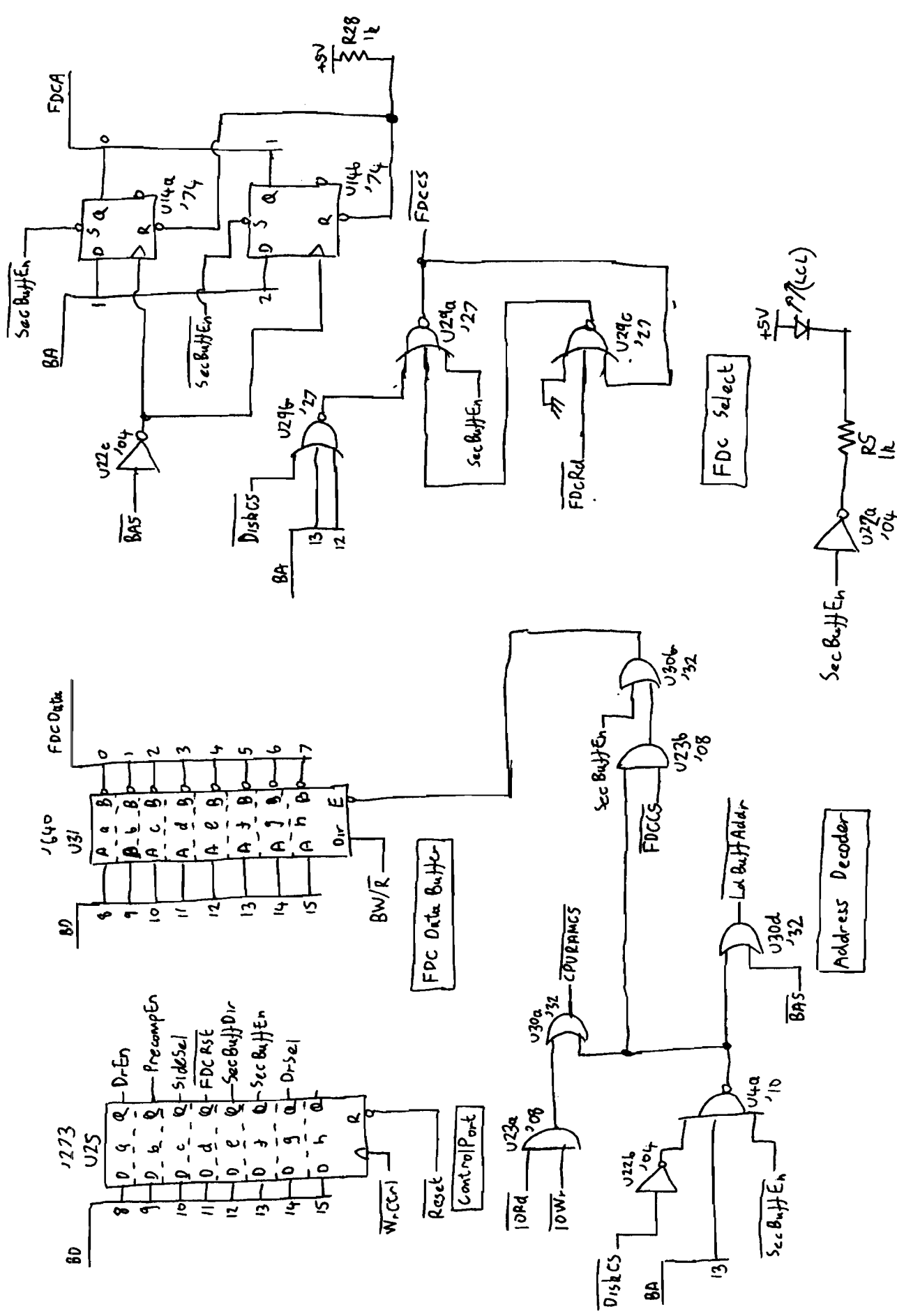
RAM Read Multiplexer

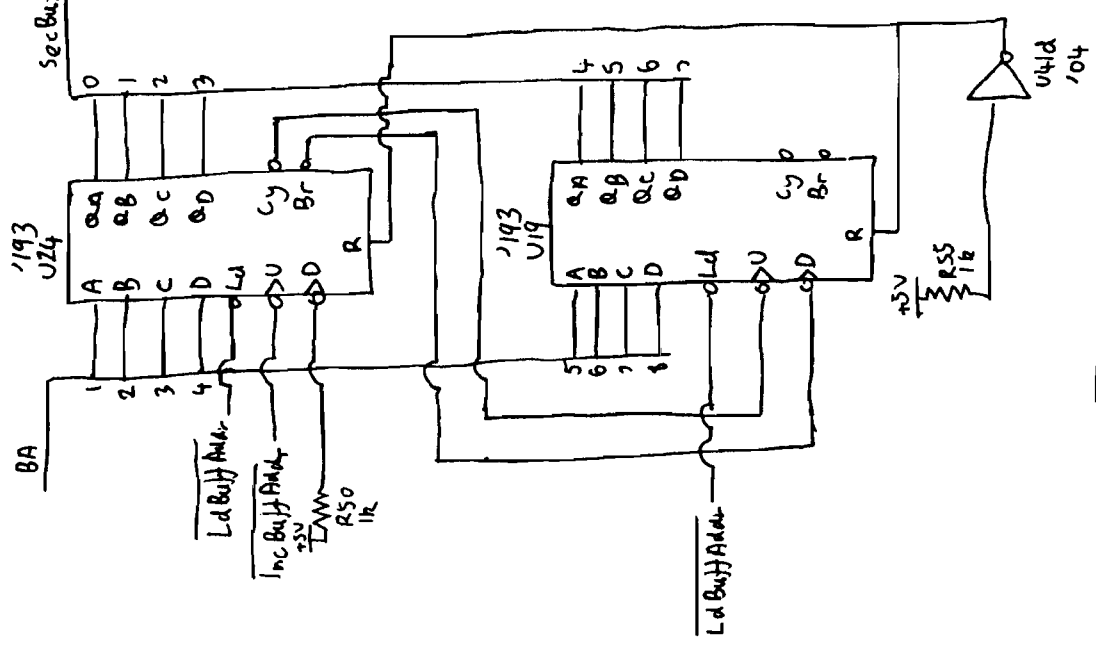


Dot Shift Register

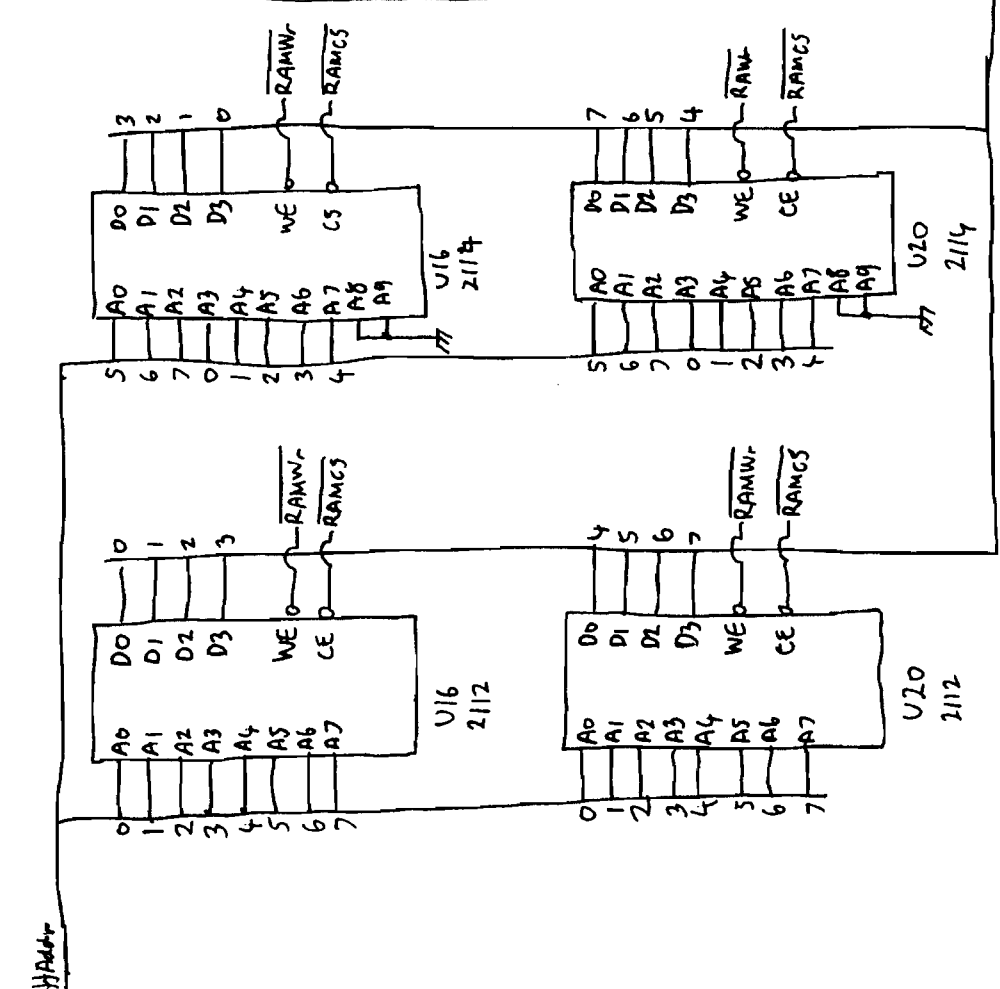






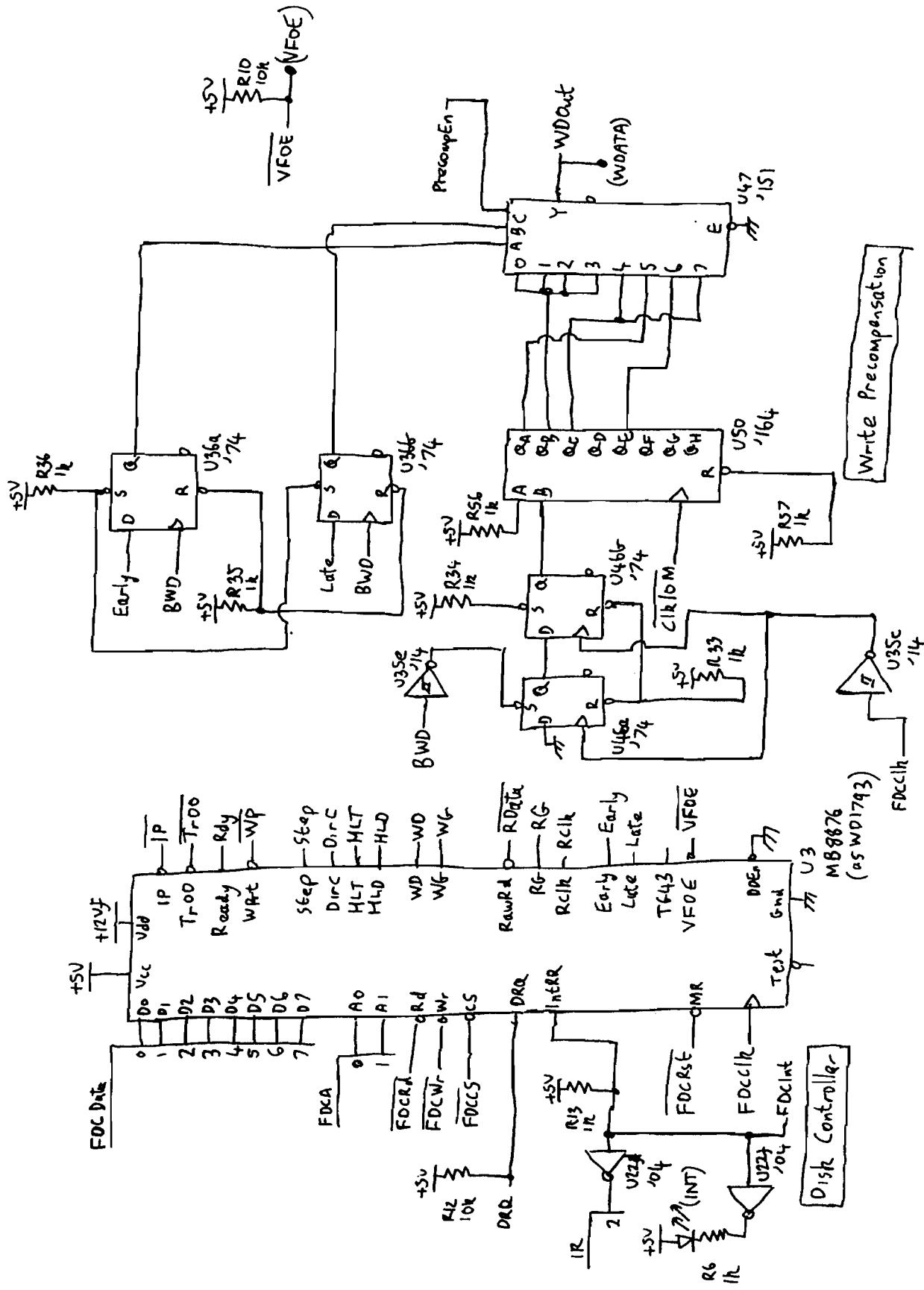


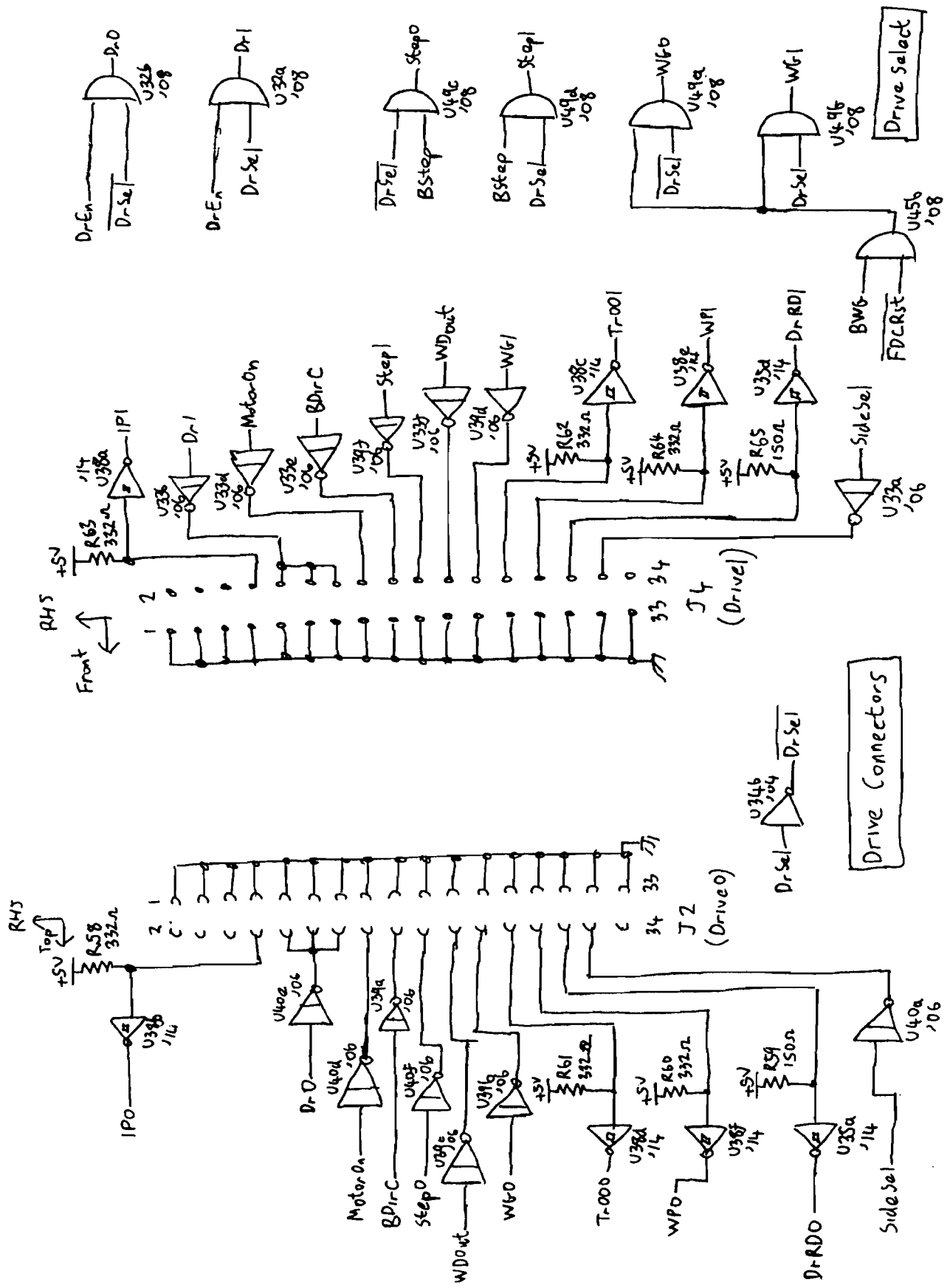
RAM Address Counter



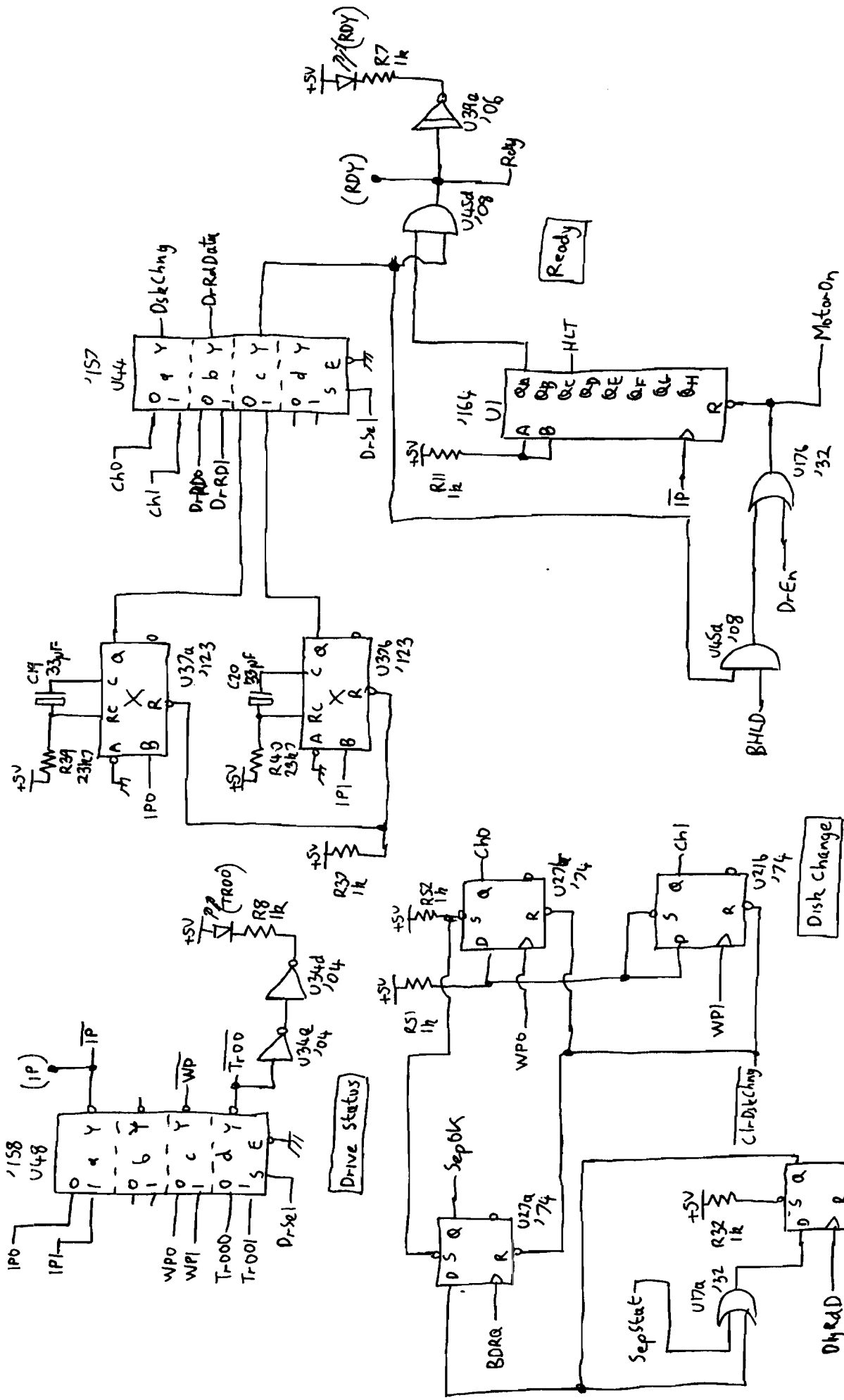
Sector Buffer RAM

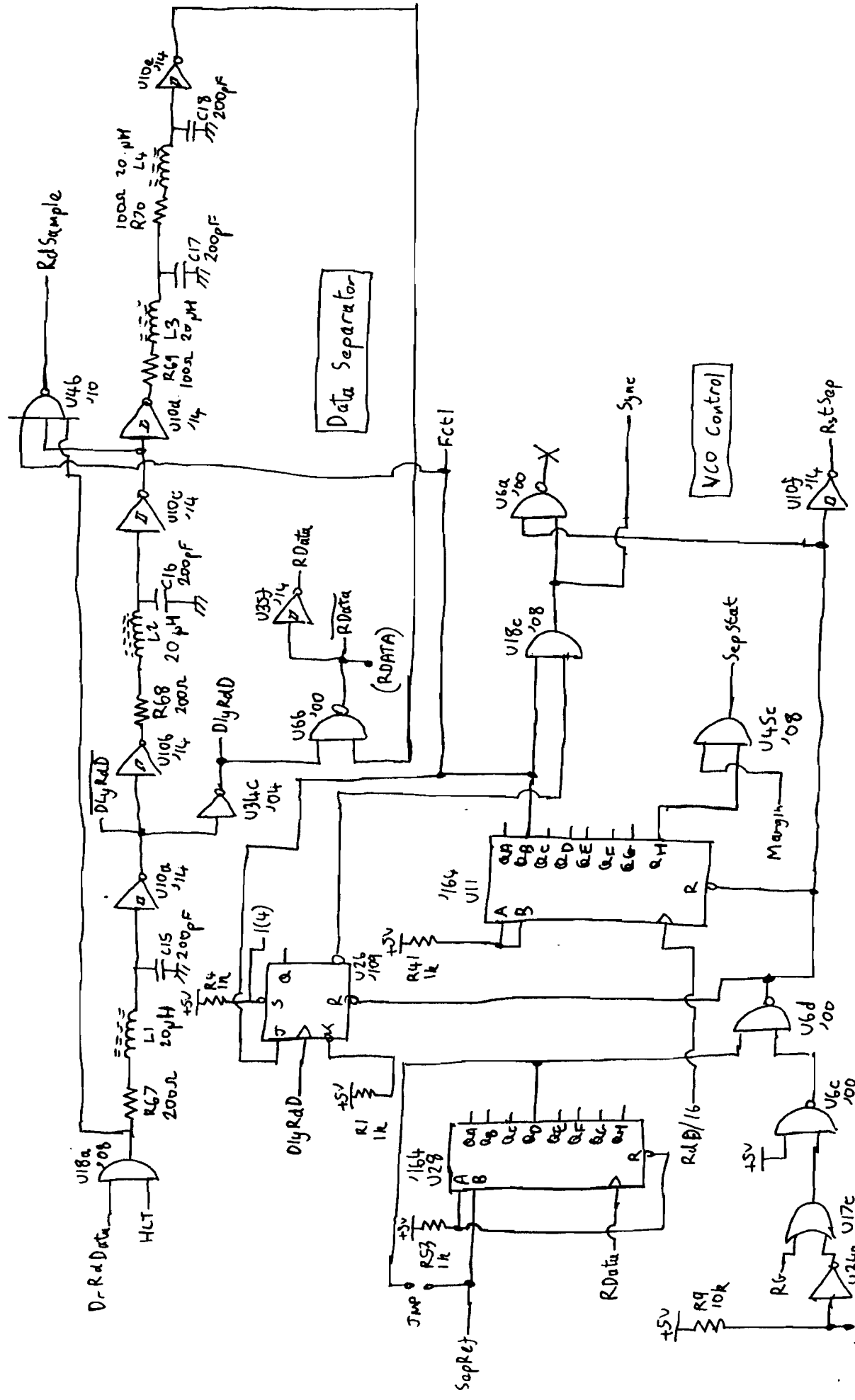
Note: U16, U20 may be either 2112 or 2114. Re-ordering of address and data lines is due to different pinouts of the 2 devices. Only one IC fitted at each location, but U16, U20 do not have to be the same type

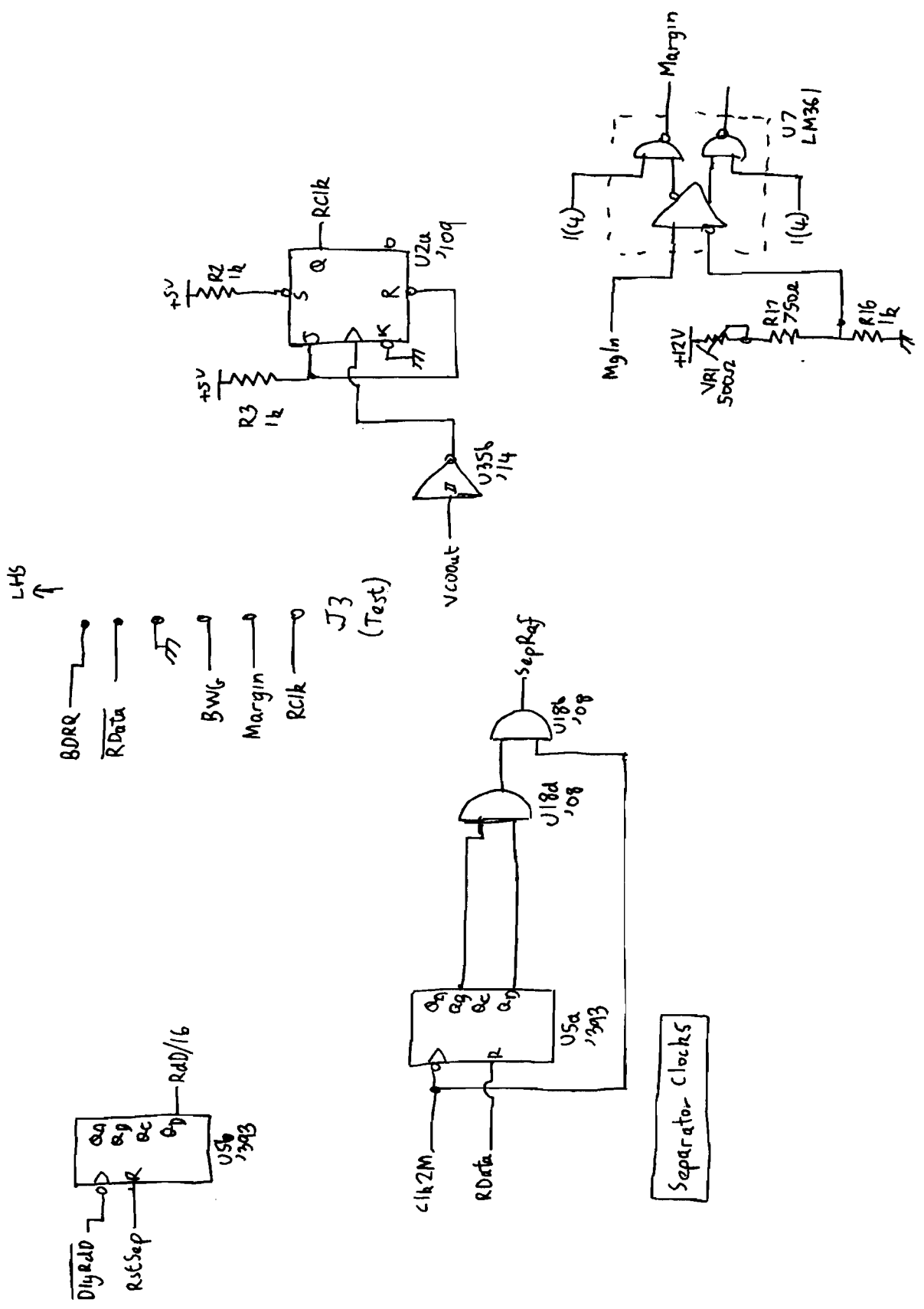


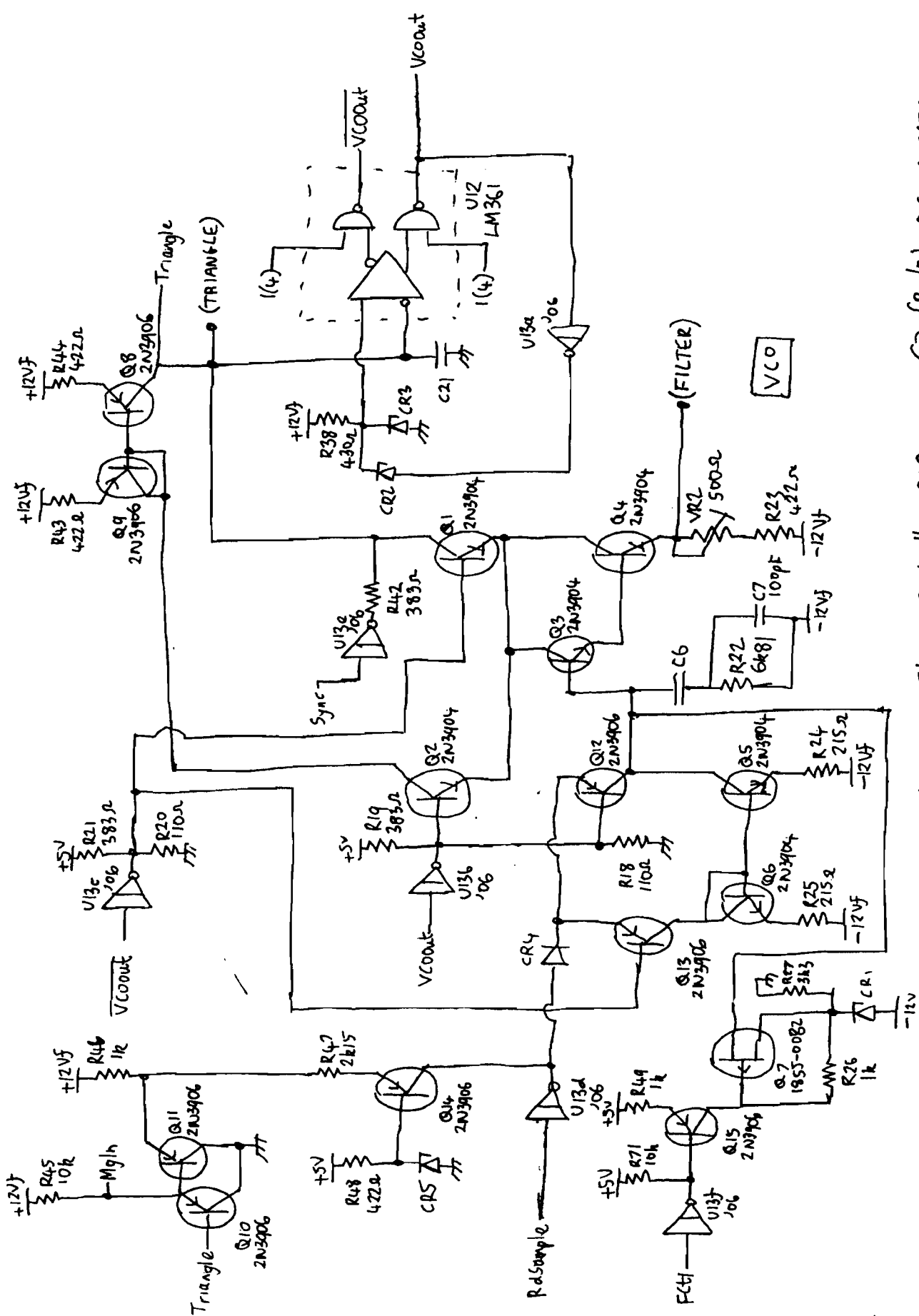


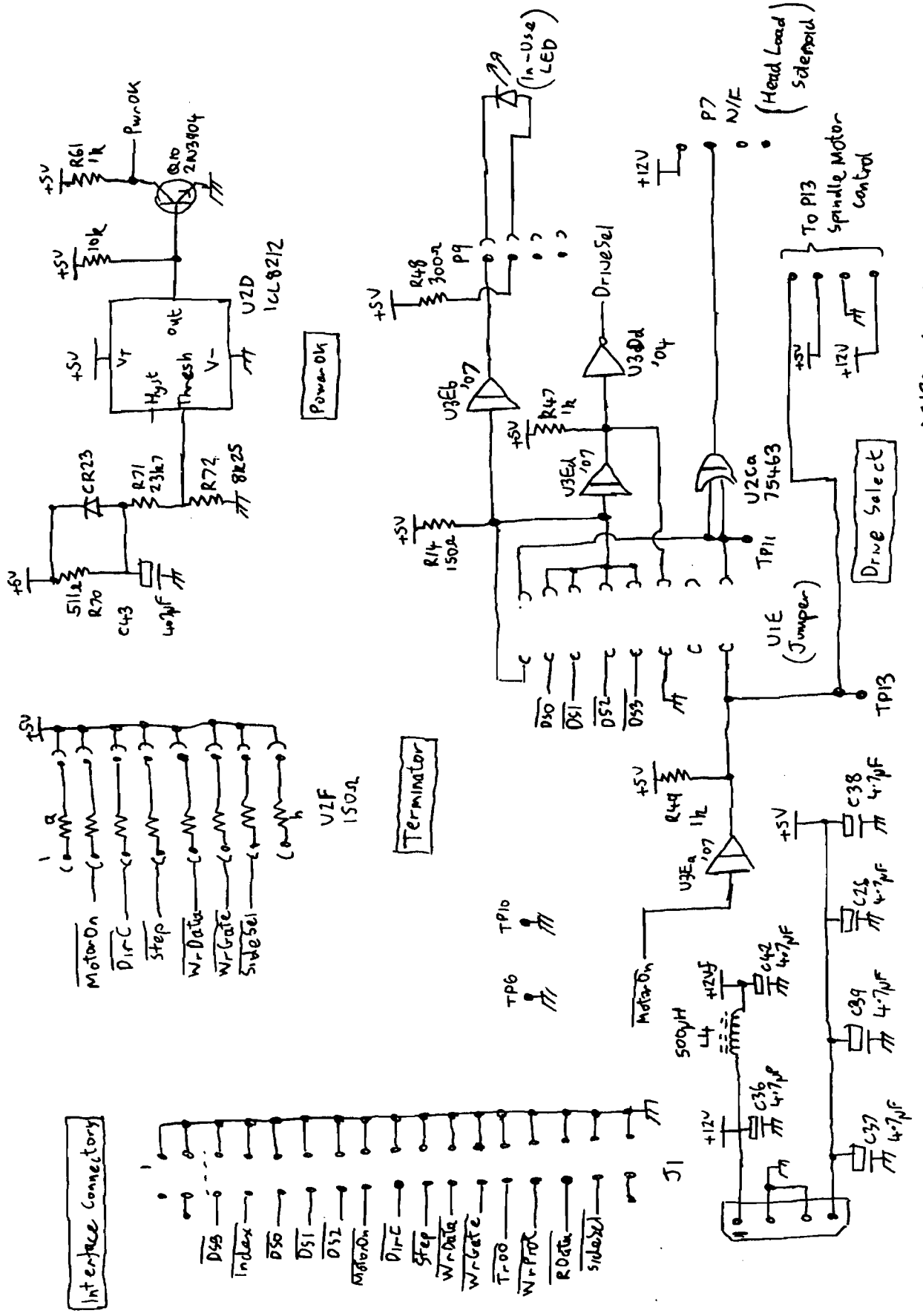
HP9826/HP9836 Floppy Controller PCB sheet 6 (B./R) 09826-66562

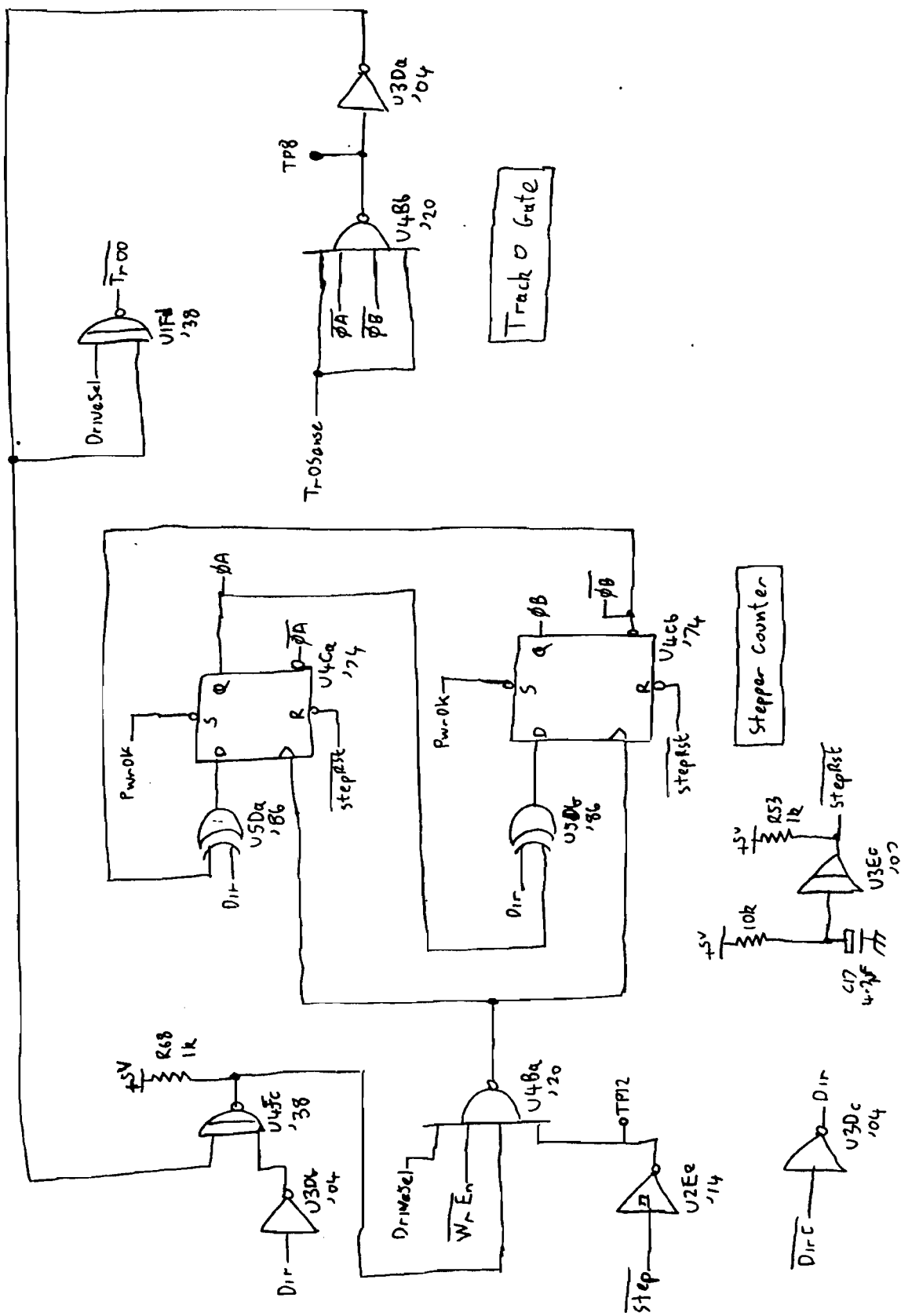


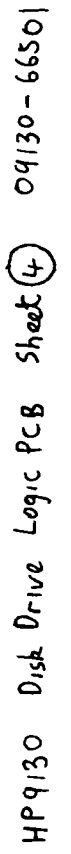


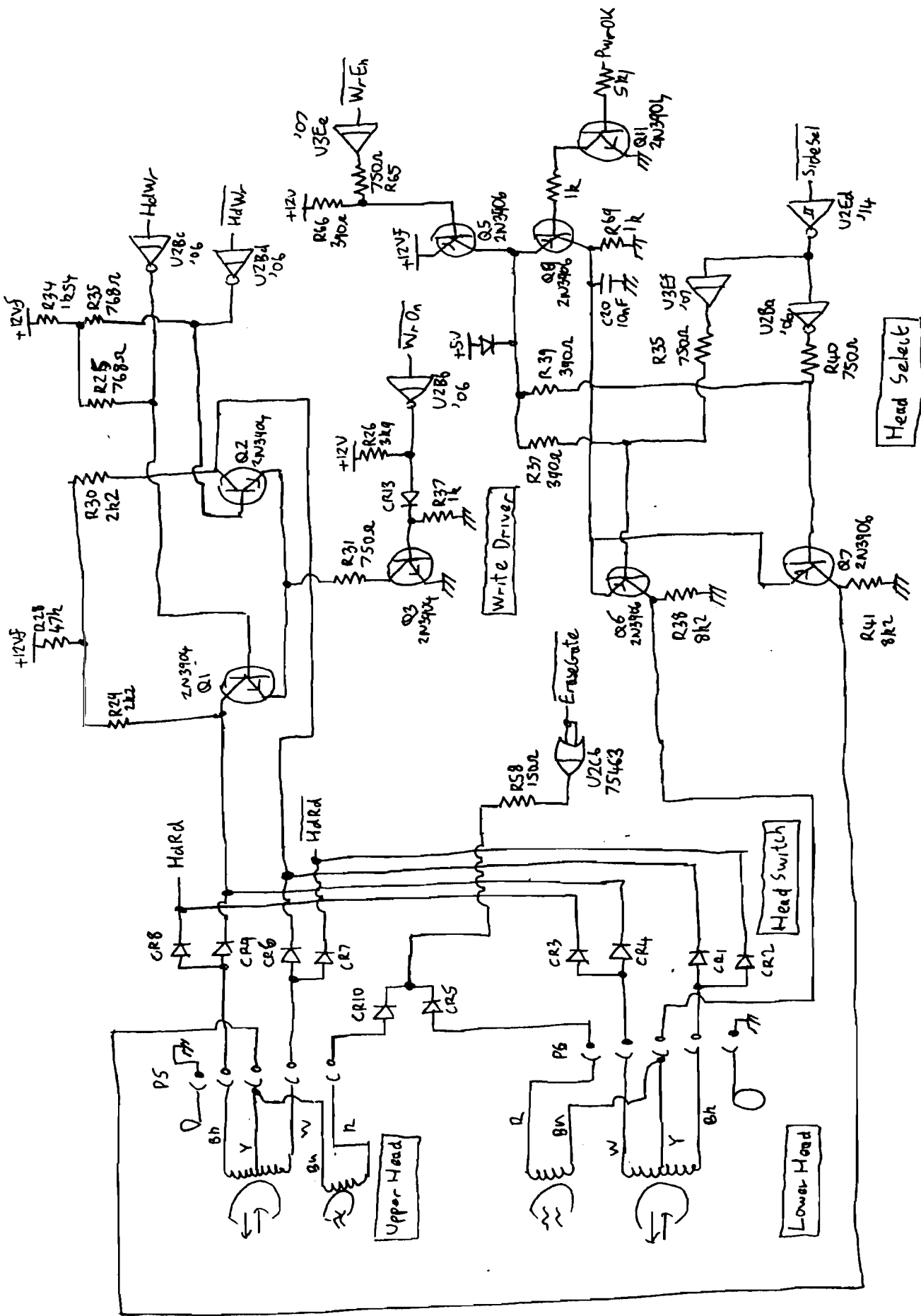


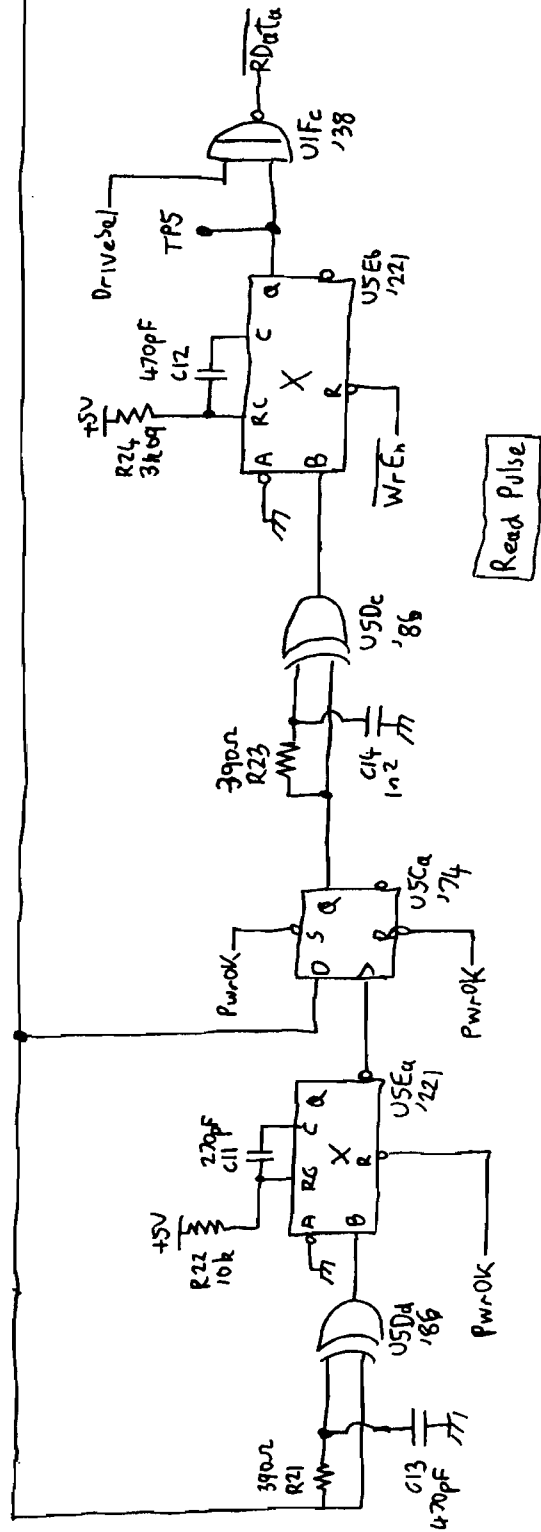
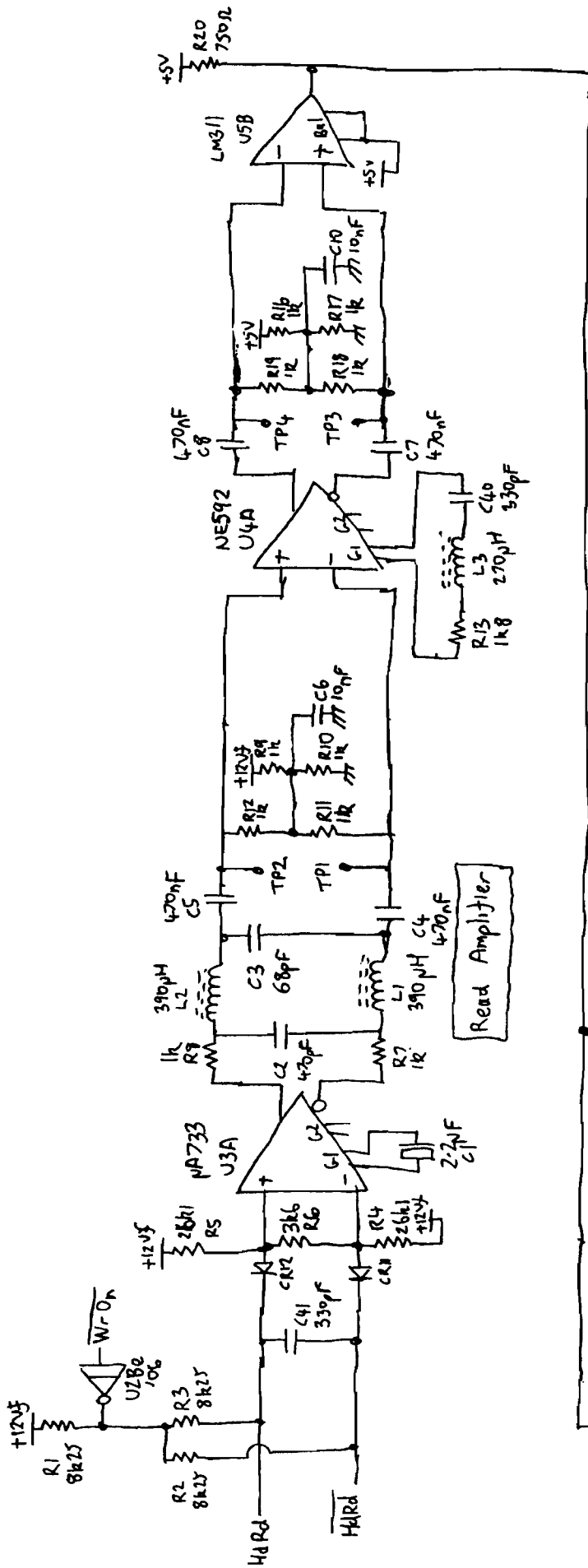


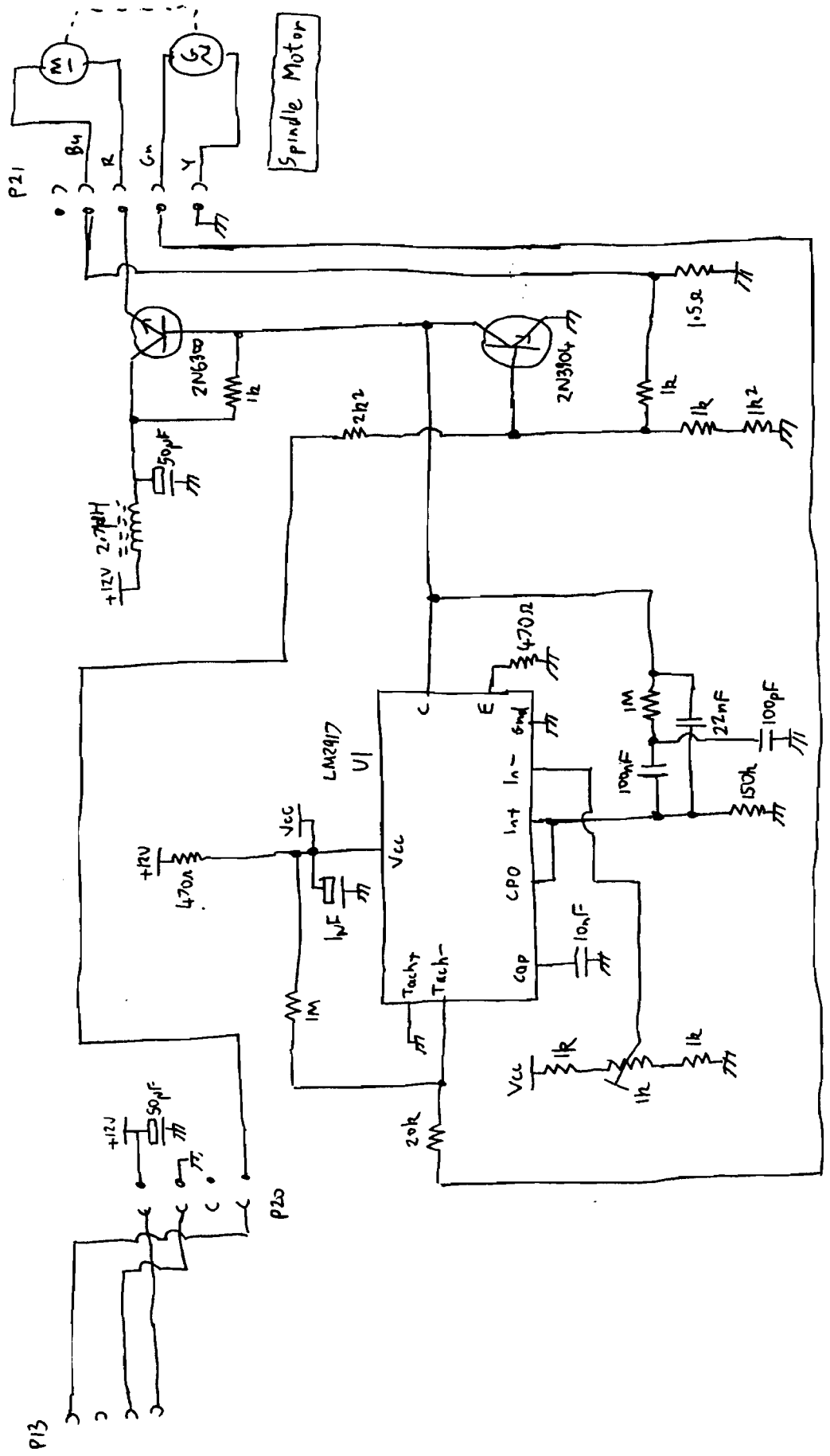


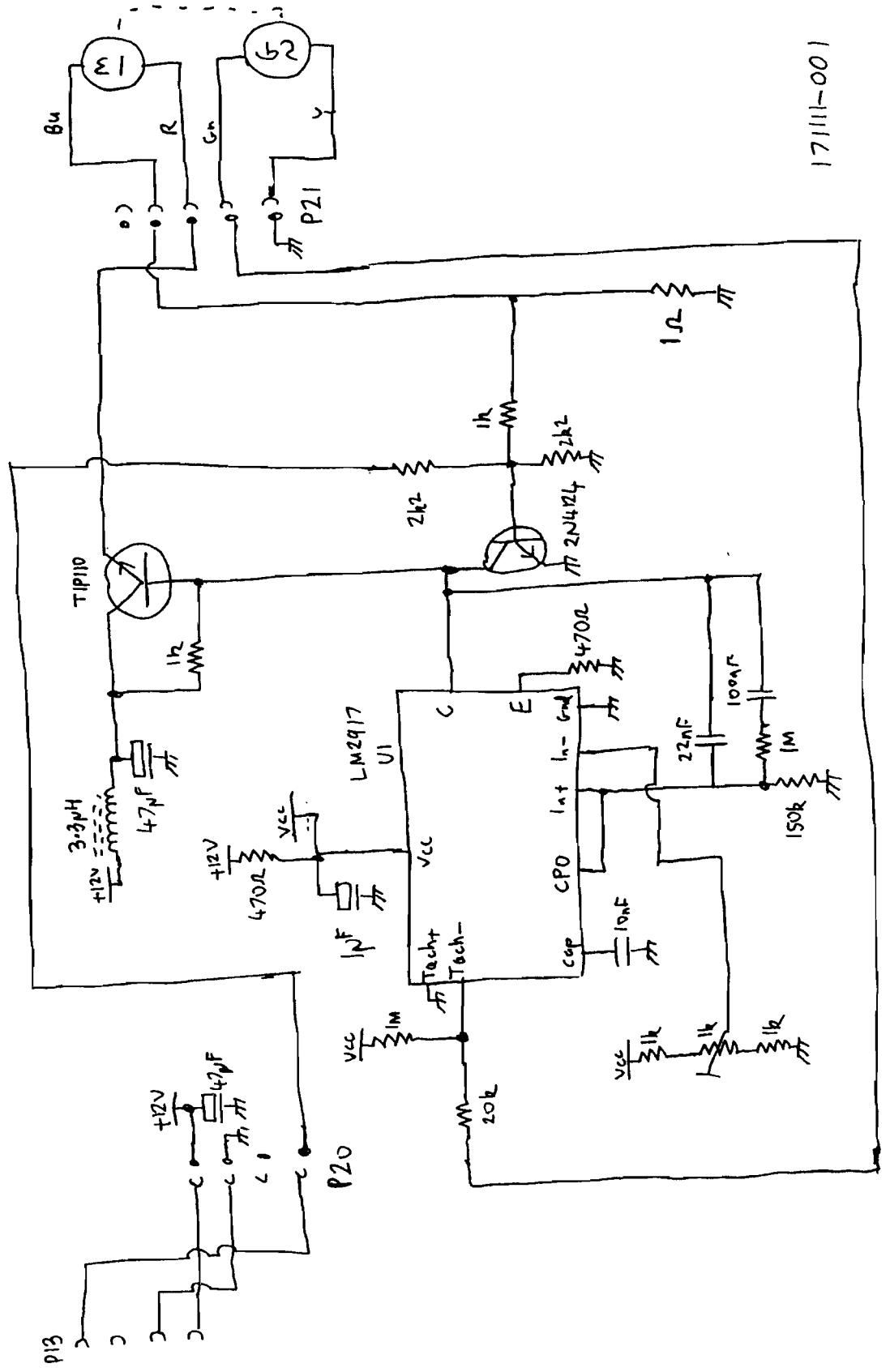






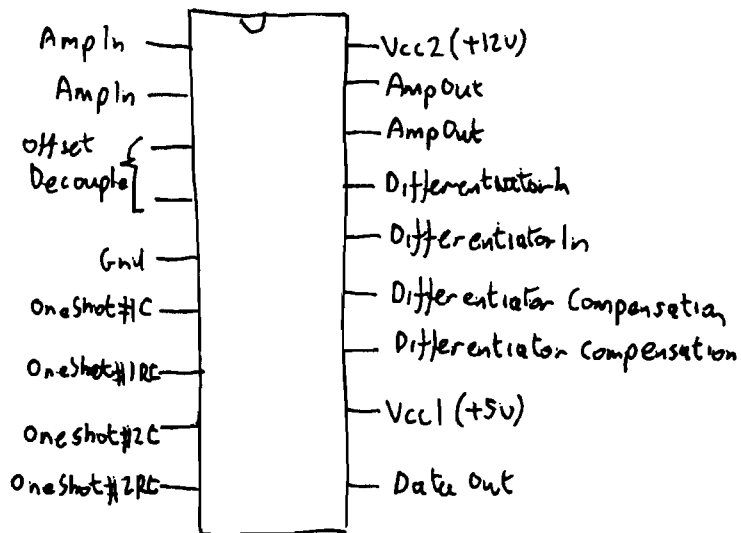




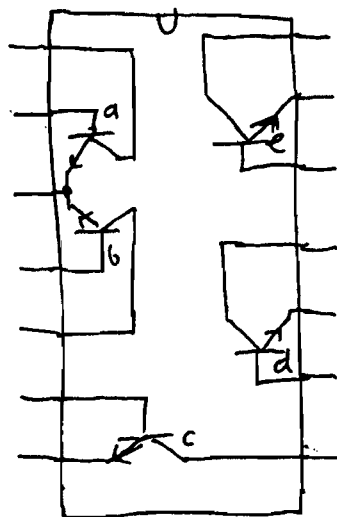


171111-001

HP9130 (CDC/mPI)

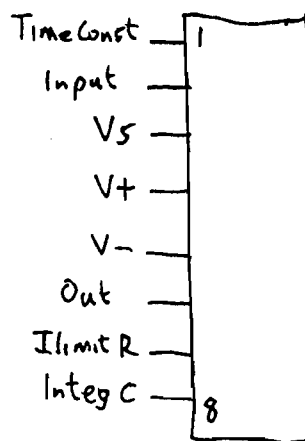


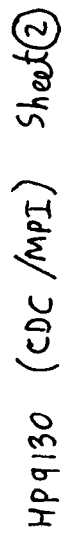
MC3740
Disk Read Chain

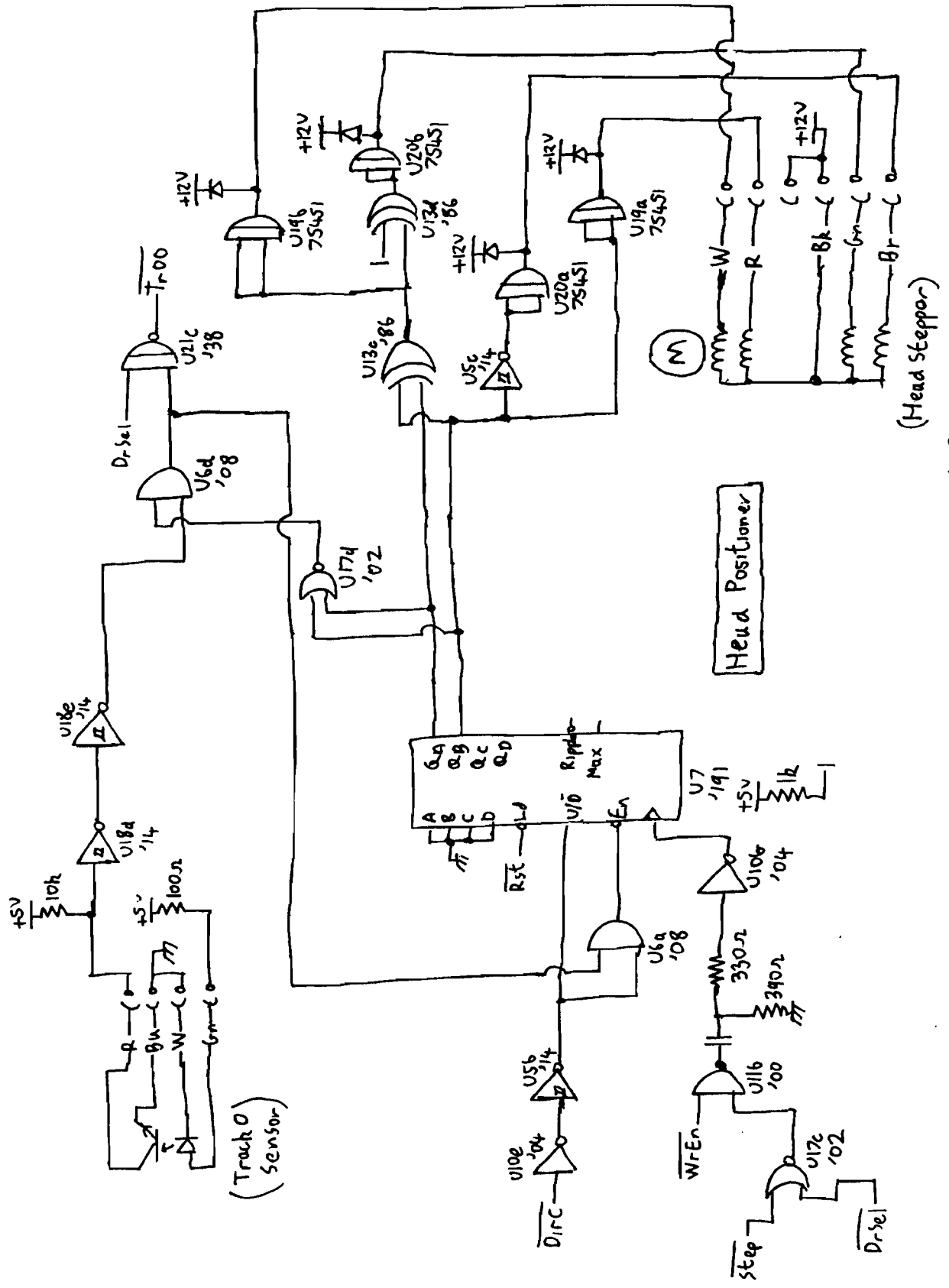


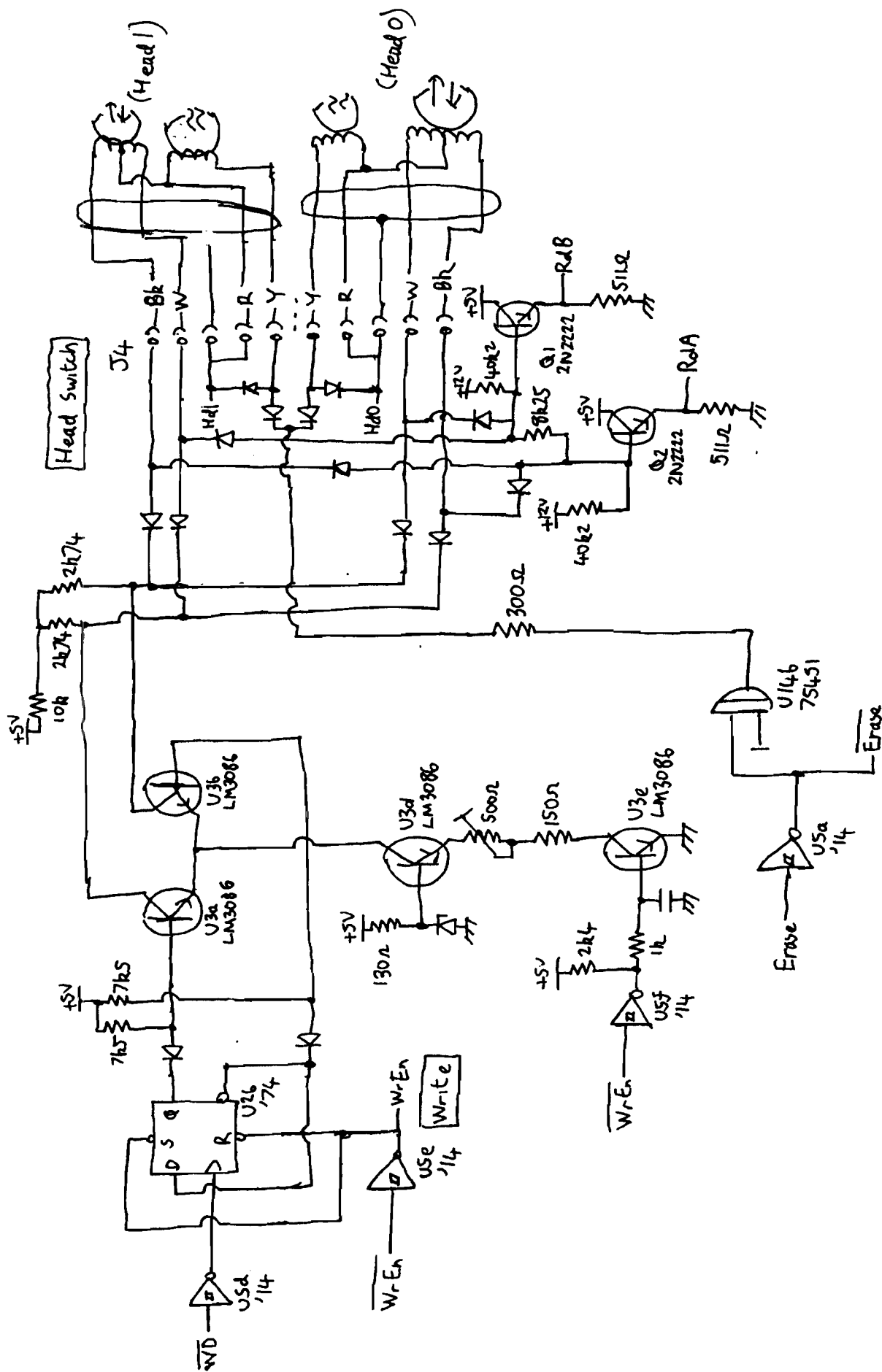
LM3086

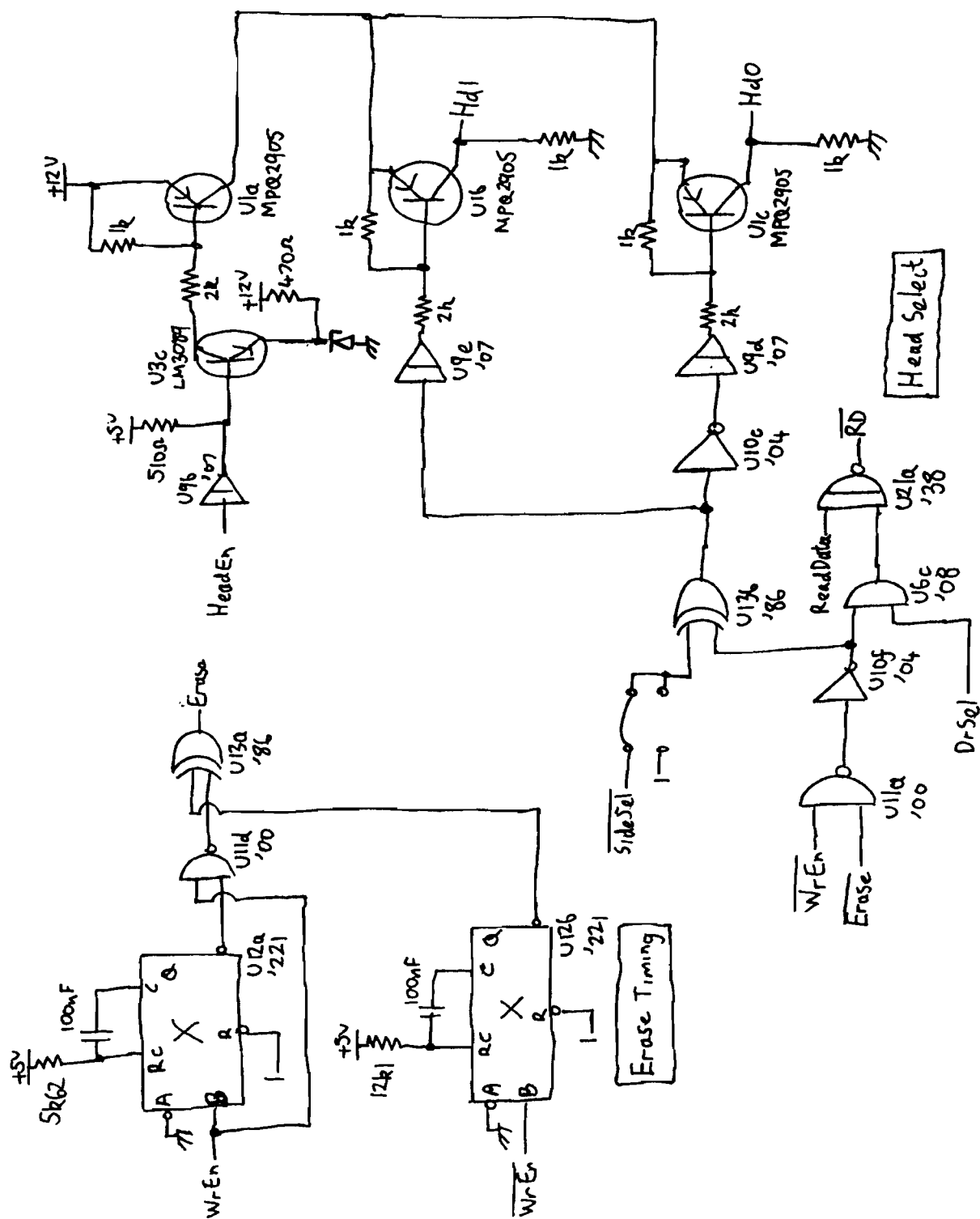
Motor Control
MS1970L

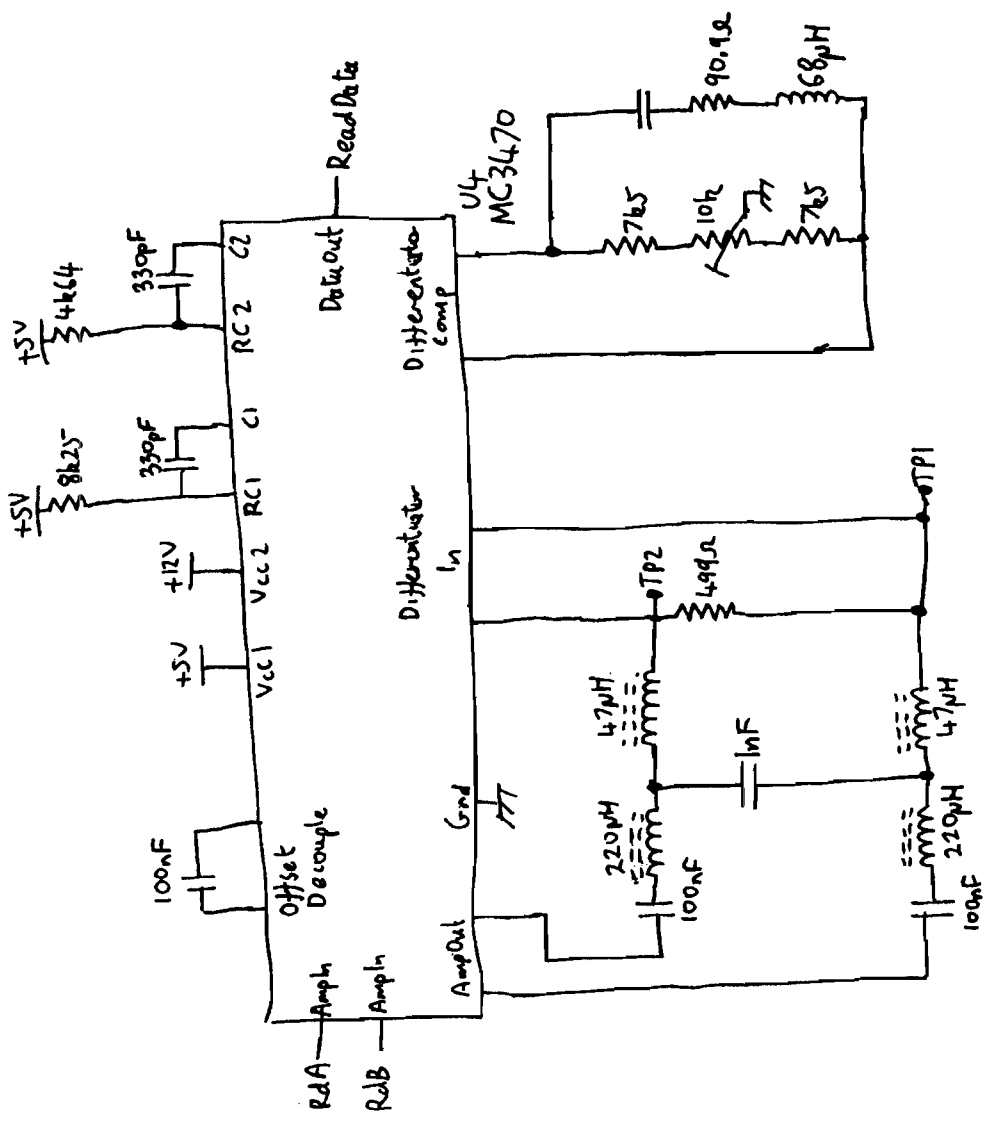




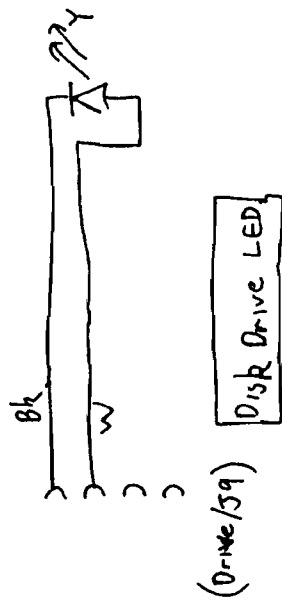
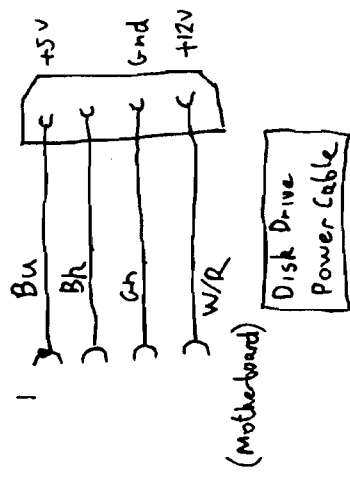




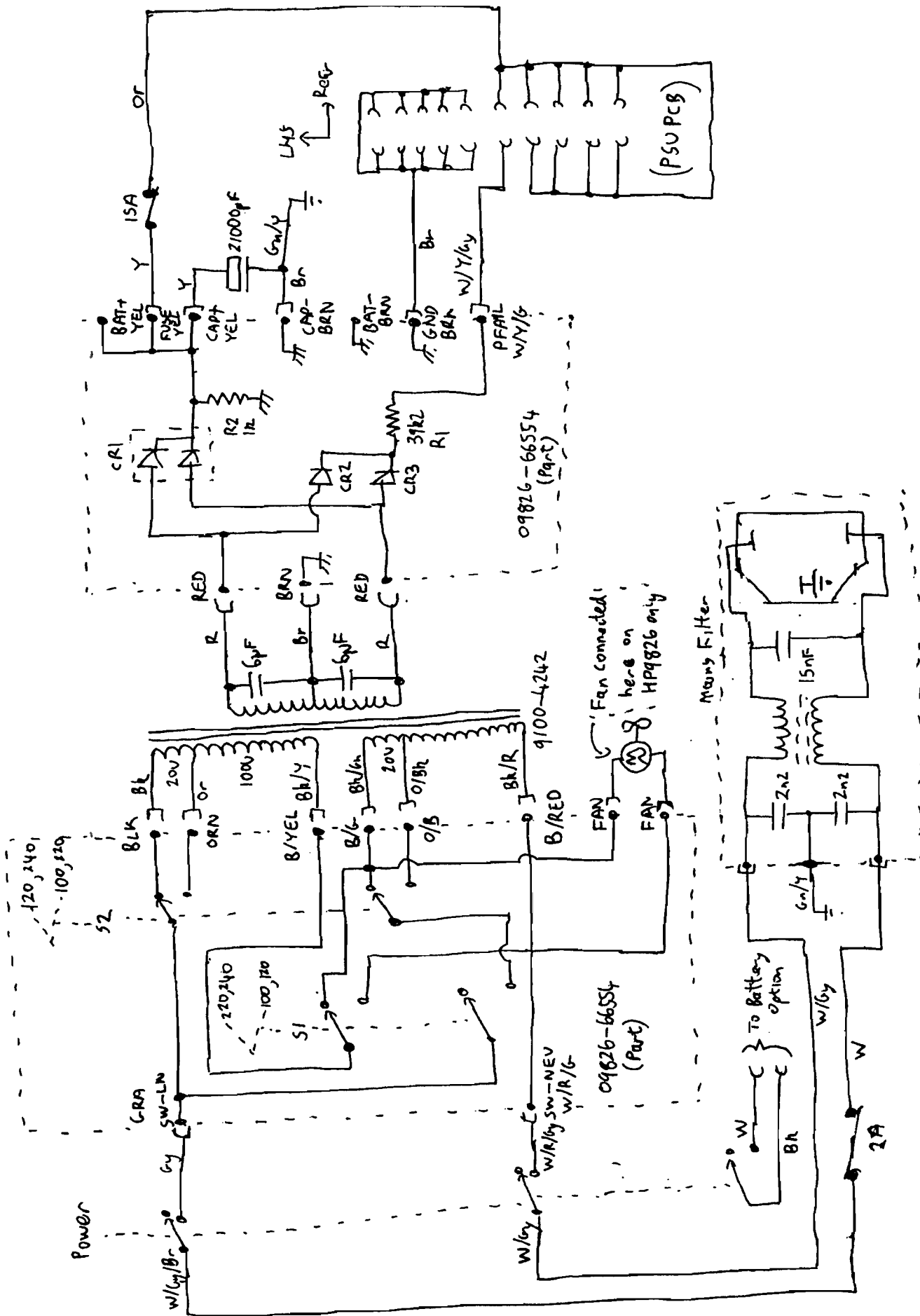




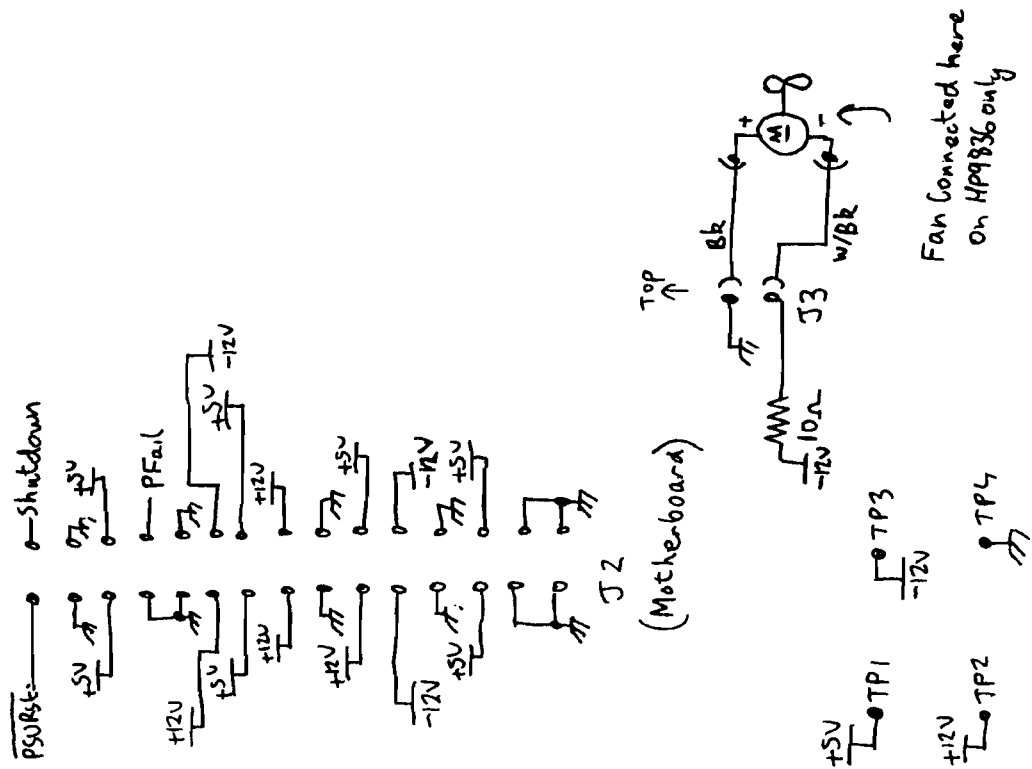
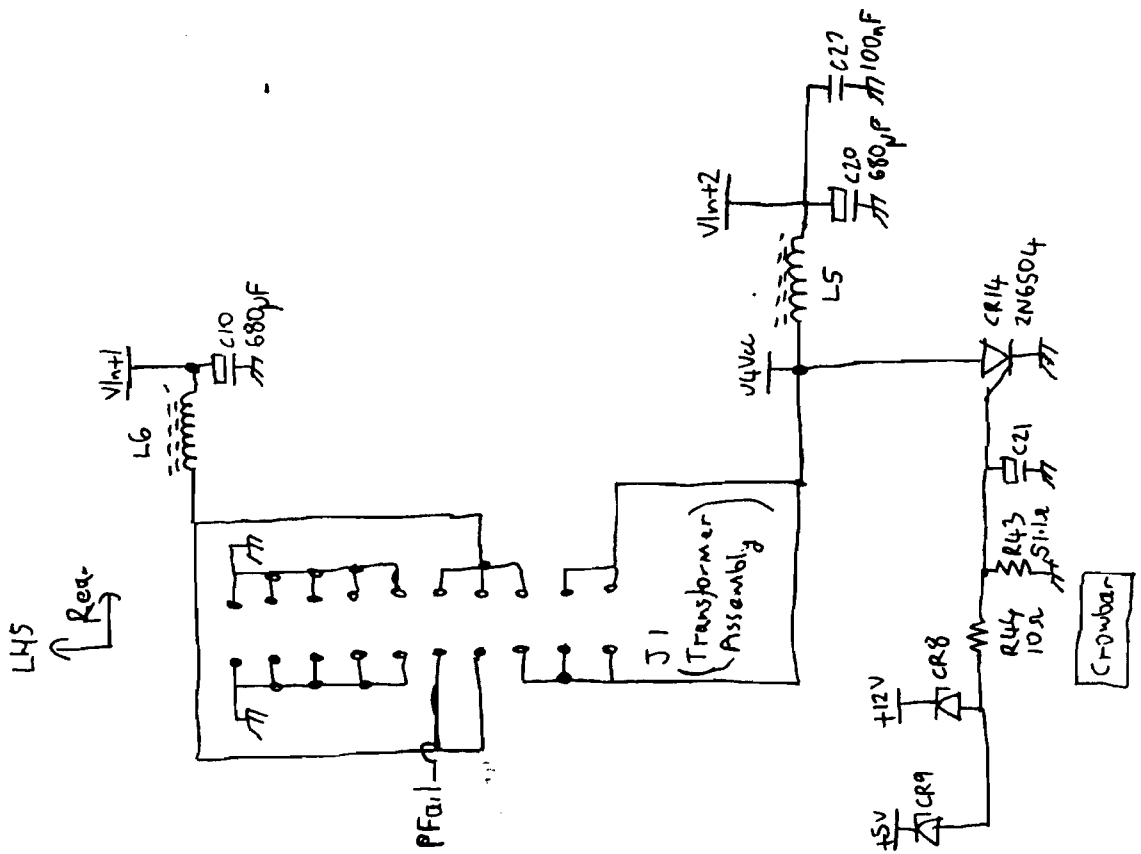
Read



HP9826/HP9836 Disk Drive Cables



HP9826/HP9836 Transformer wiring



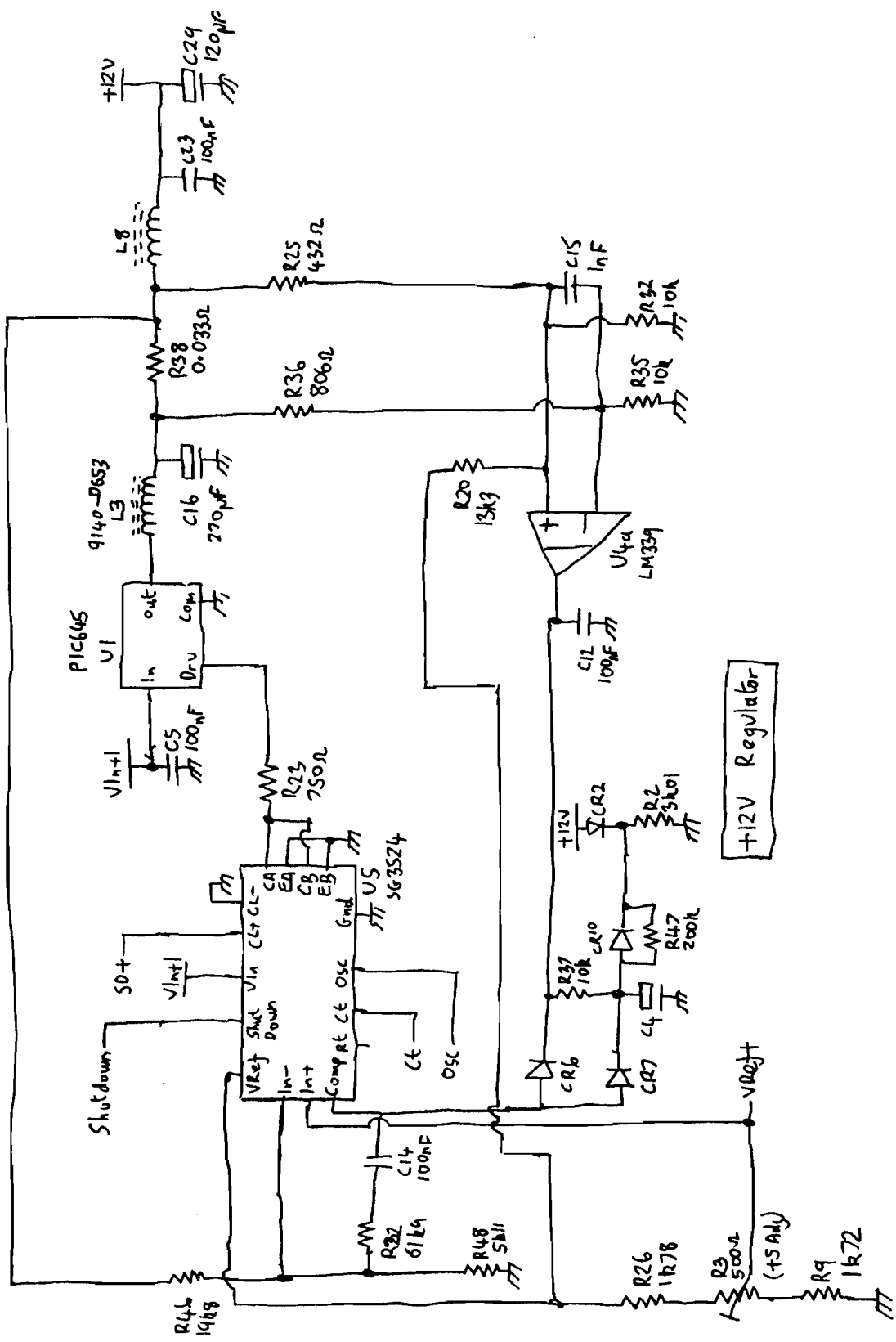
09826-66553

Sheet ①

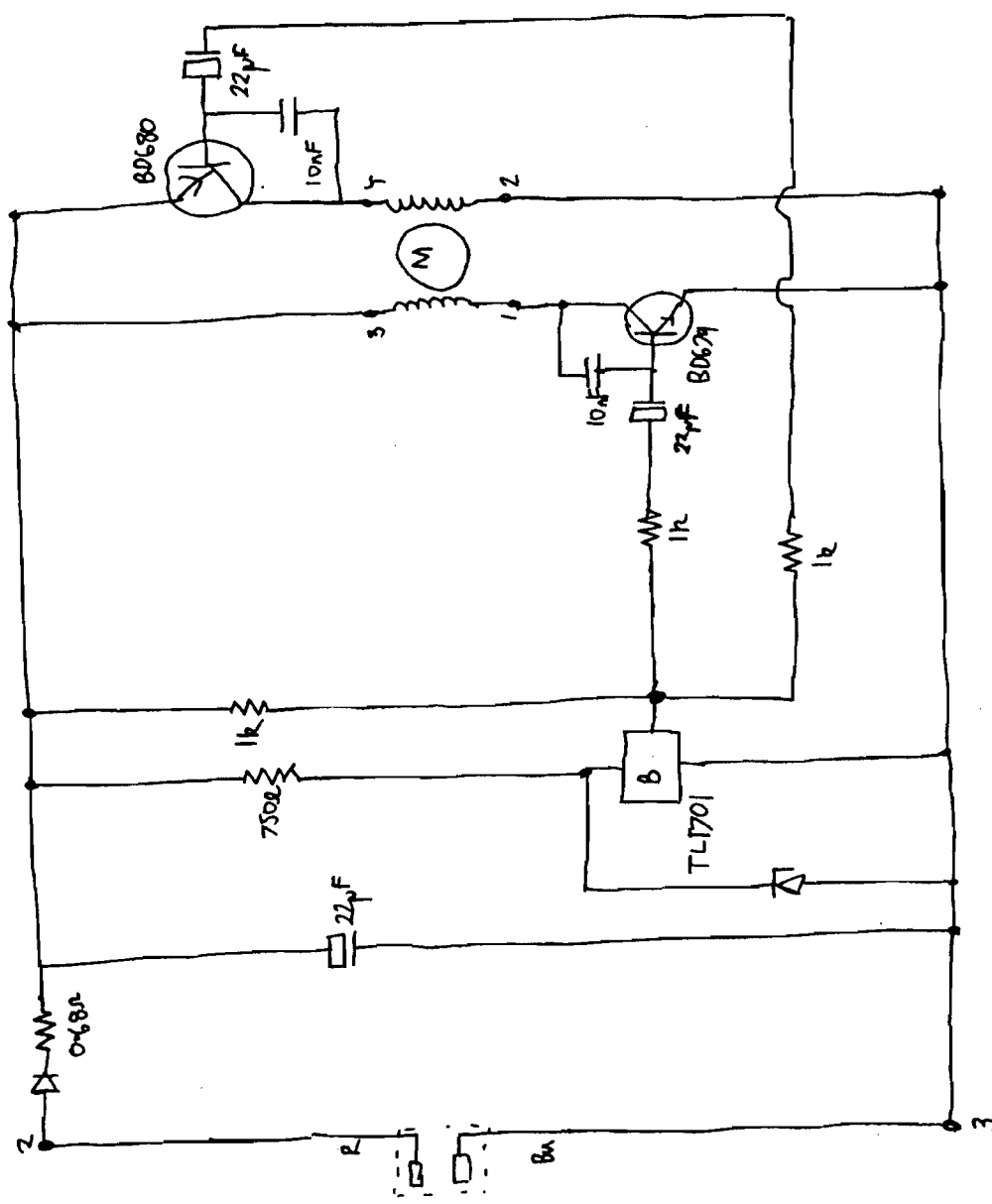
HP9826/HP9836 PSU PCB

Fan Connected here
on HP9836 only









HP9836 Fan Papst 6027-030 PCB

ctrl	!	@	#	\$	%	^	&	*	(	)	_	+	BACK SPACE
TAB	Q	W	E	R	T	Y	U	I	O	P	[	]	ENTER
CAPS LOCK	A	S	D	F	G	H	J	K	L	;	'	ENTER	
SHIFT	Z	X	C	V	B	N	M	,	.	/	?	SHIFT	
Space Bar													

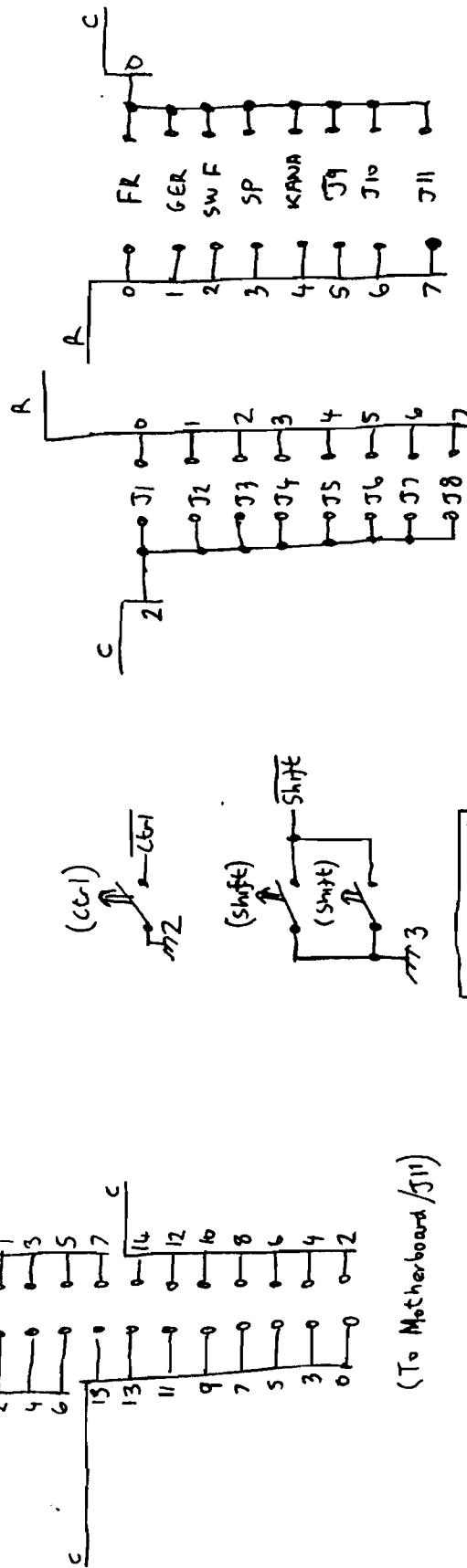
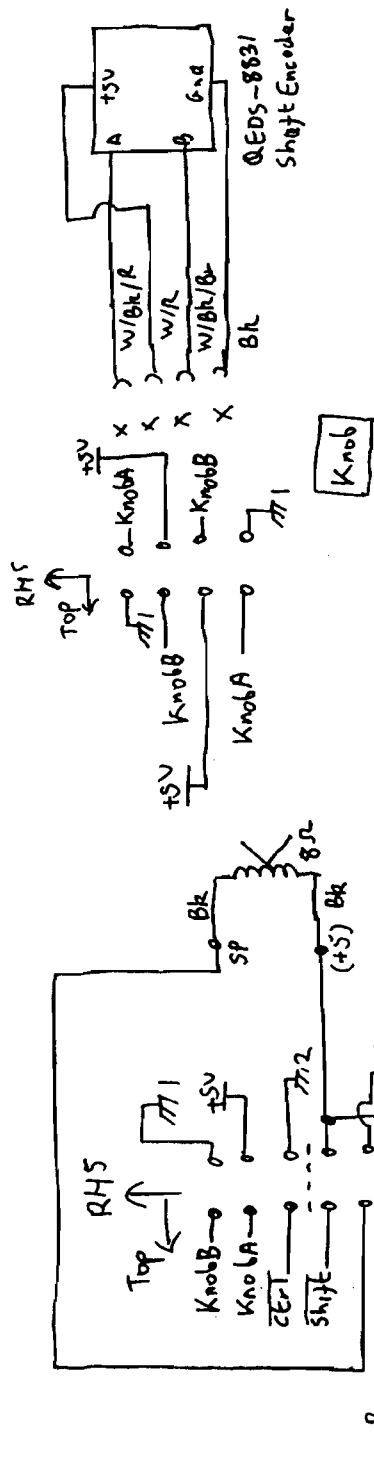
INS LN	DEL LN	RECALL
INS CHR	DEL CHR	CONVERT

RD	K1	K2	K3	K4
K5	K6	K7	K8	K9

EDIT	ALPHA	GRAPHICS	STEP
CR LN	RESET	PRG ALL	CLR V/D

PAUSE	E	(	)	^
RUN	7	8	9	/
CONTINUE	4	5	6	*
	1	2	3	-
EXECUTE	0	.	,	+

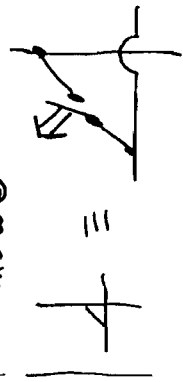
HP9836 / HP9836 Keycaps



(To Motherboard/J11)

Note: on sheet 2

Config Links

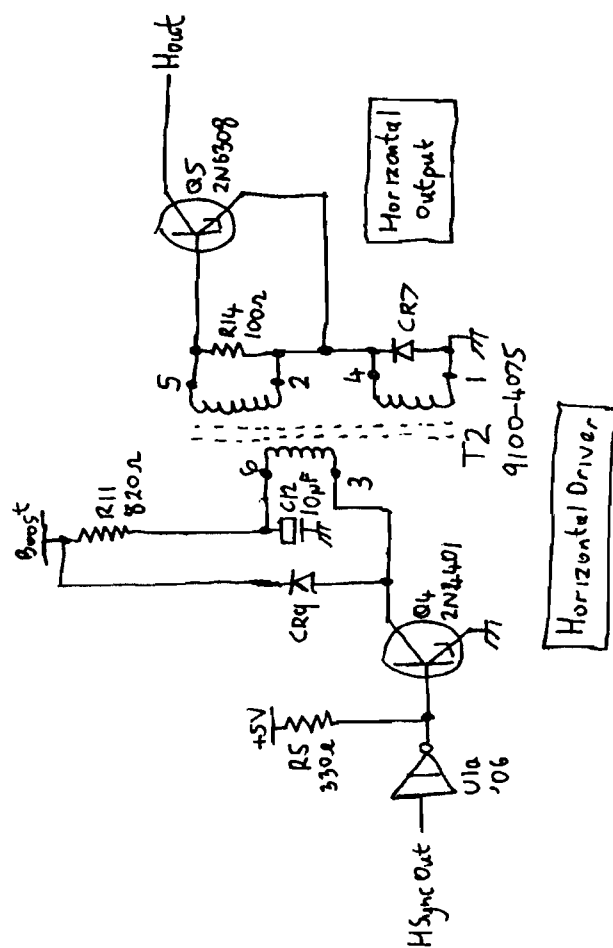
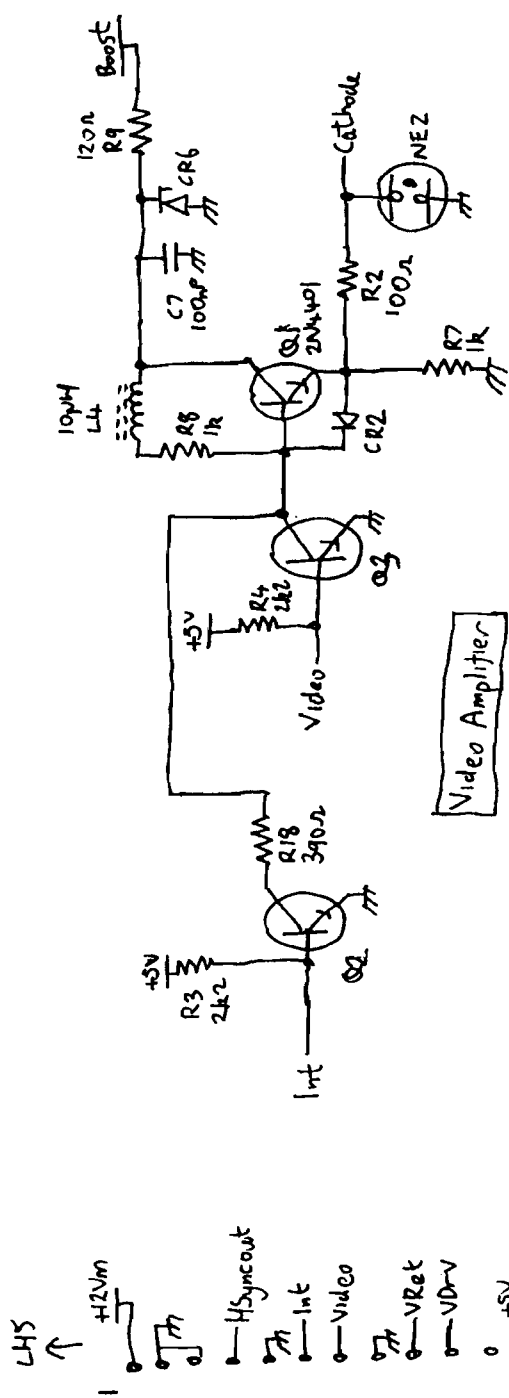


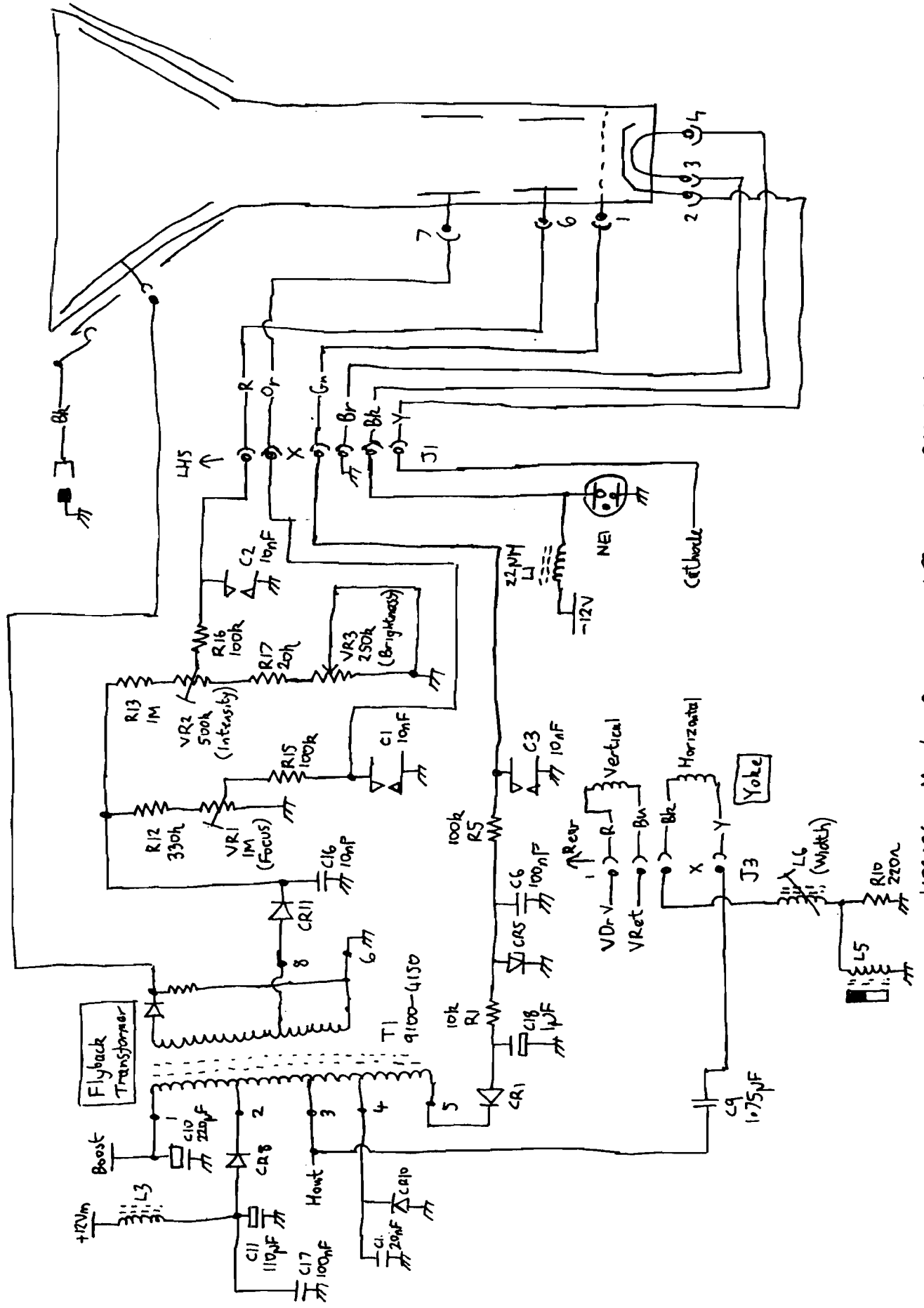
	3	4	5	6	7	8	9	10	11	12	13	14	15
C													
R													
0	CAPS Lock	k3	INS LN	EDIT	PAUSE	N1	N7	!	(	<	Q	A	Z
1	TAB ⁴	k4	DEL LN	ALPHA	ENTER	N2	N8	@	)	>	W	S	X
2	k0	↓	RECALL	GRAPHICS	CONTINUE	N3	N9	#	=	? ,	E	D	C
3	k1	↑	INS CHR	STEP	EXECUTE	N-	N/	\$	+ -	space bar	R	F	V
4	k2	k8	DEL CHR	CLR LN	NØ	N4	NE	%	{ [	O	T	G	B
5	k5	k9	CLR → END	RESULT	N•	N5	N(	^	3]	P	Y	H	N
6	k6	←	BACK SPACE	PTALL	NJ	N6	N)	&	: ;	K	U	J	
7	k7	→	RUN	CLR / 0	N+	N*	N^	*	" ,	L	I	M	

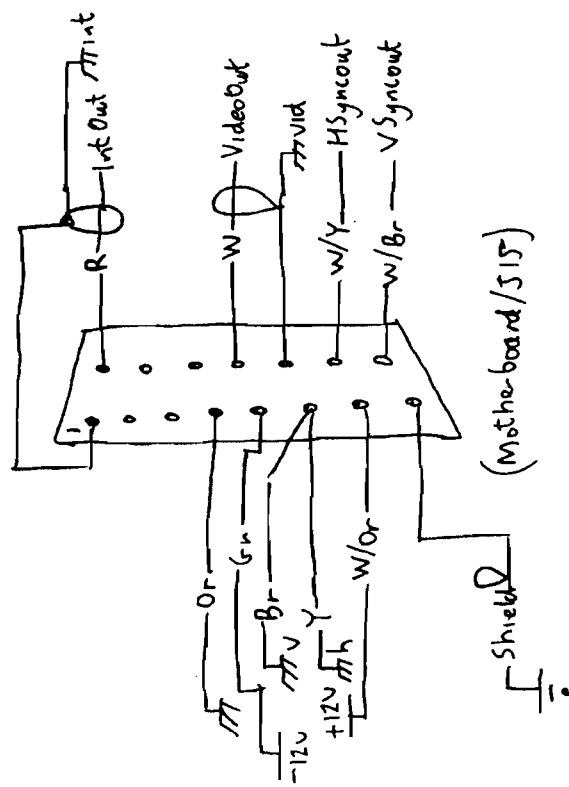
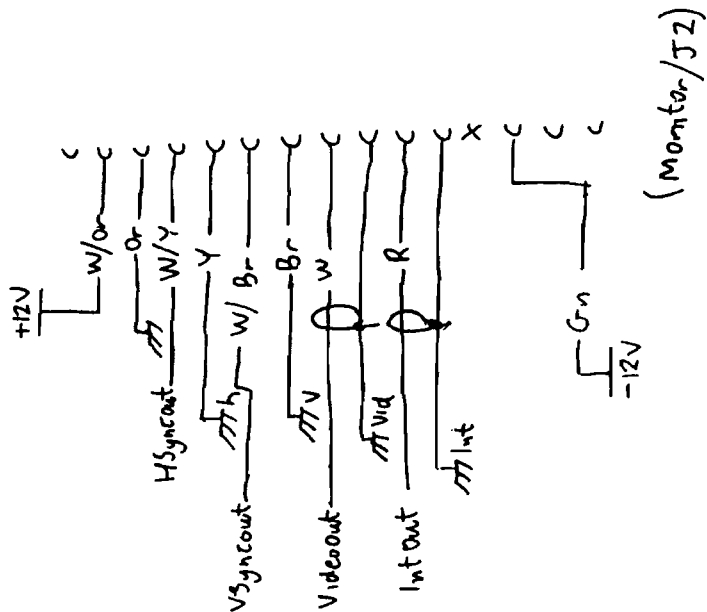
Key Matrix

09826-2653,

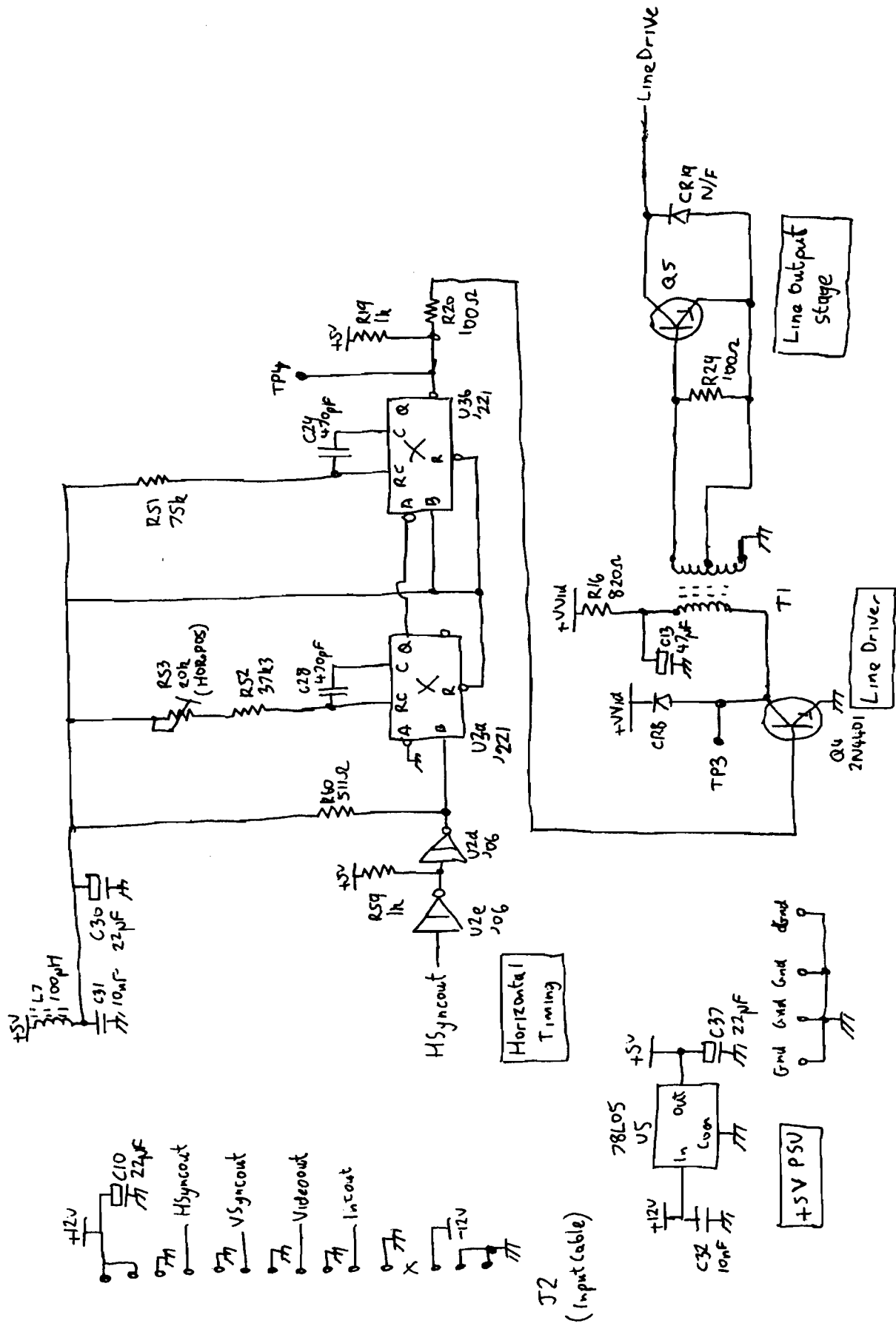
HP9826/HP9836 Keyboard Sheet (2)





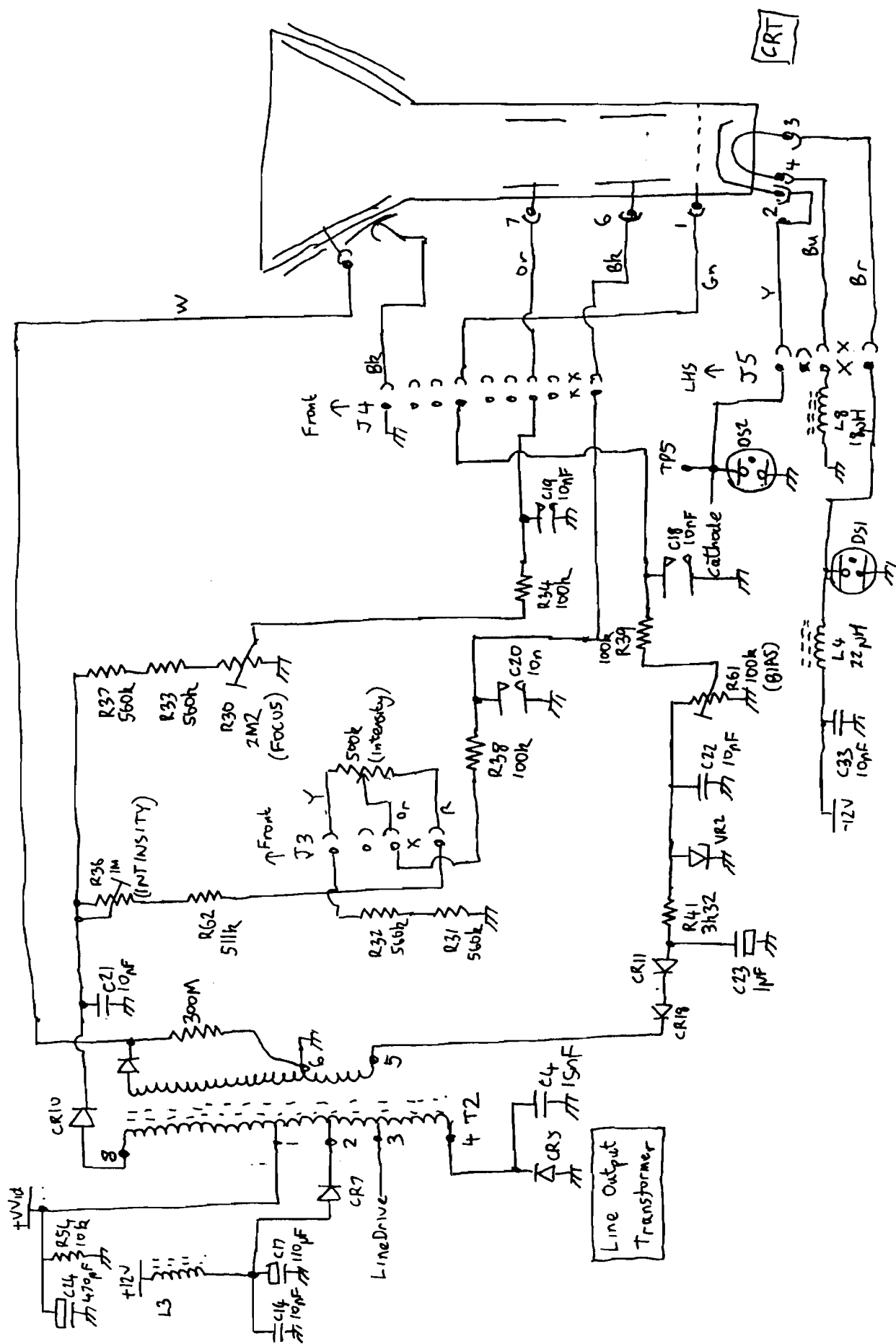


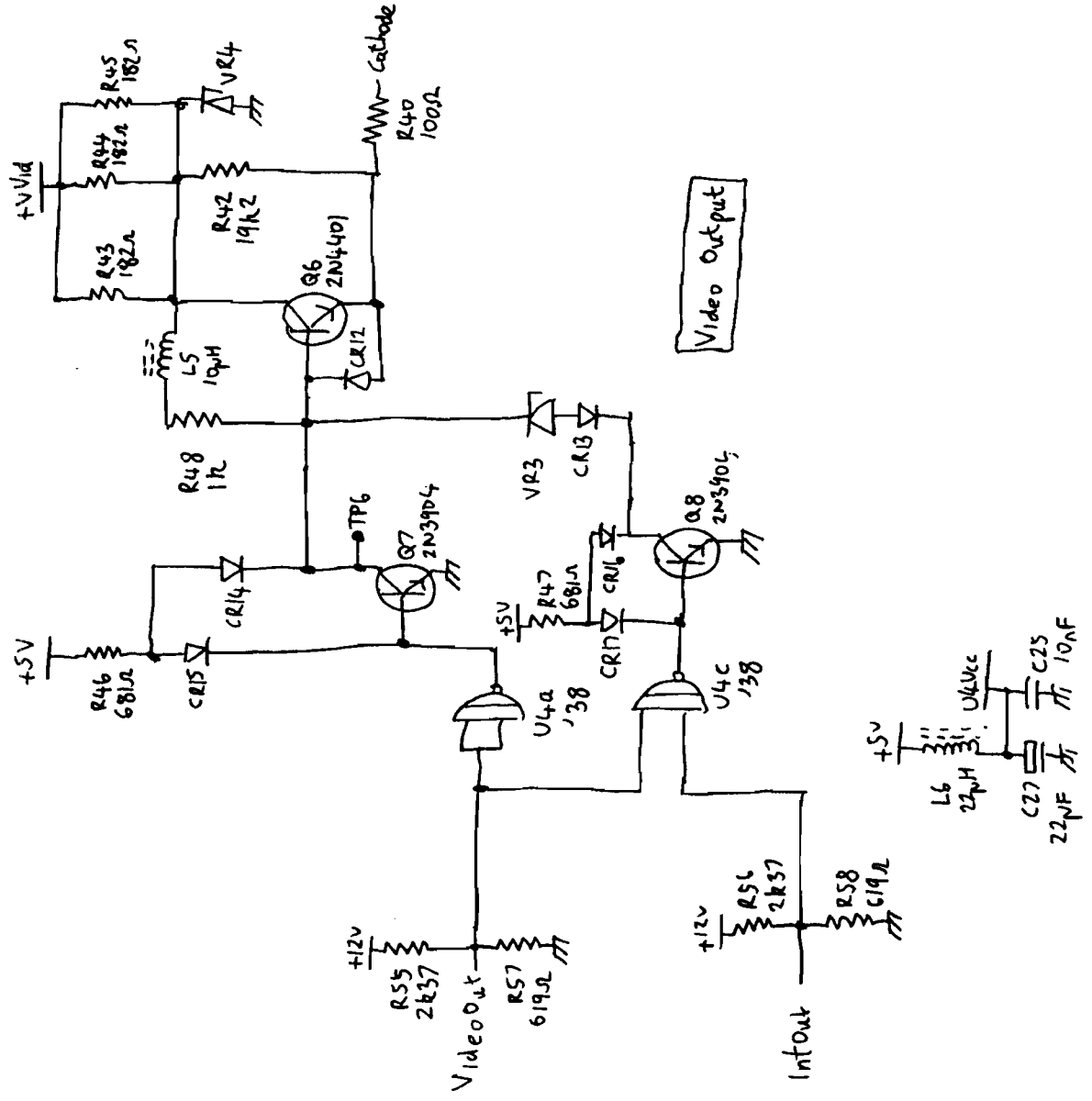
HP 9836 Monitor Cable

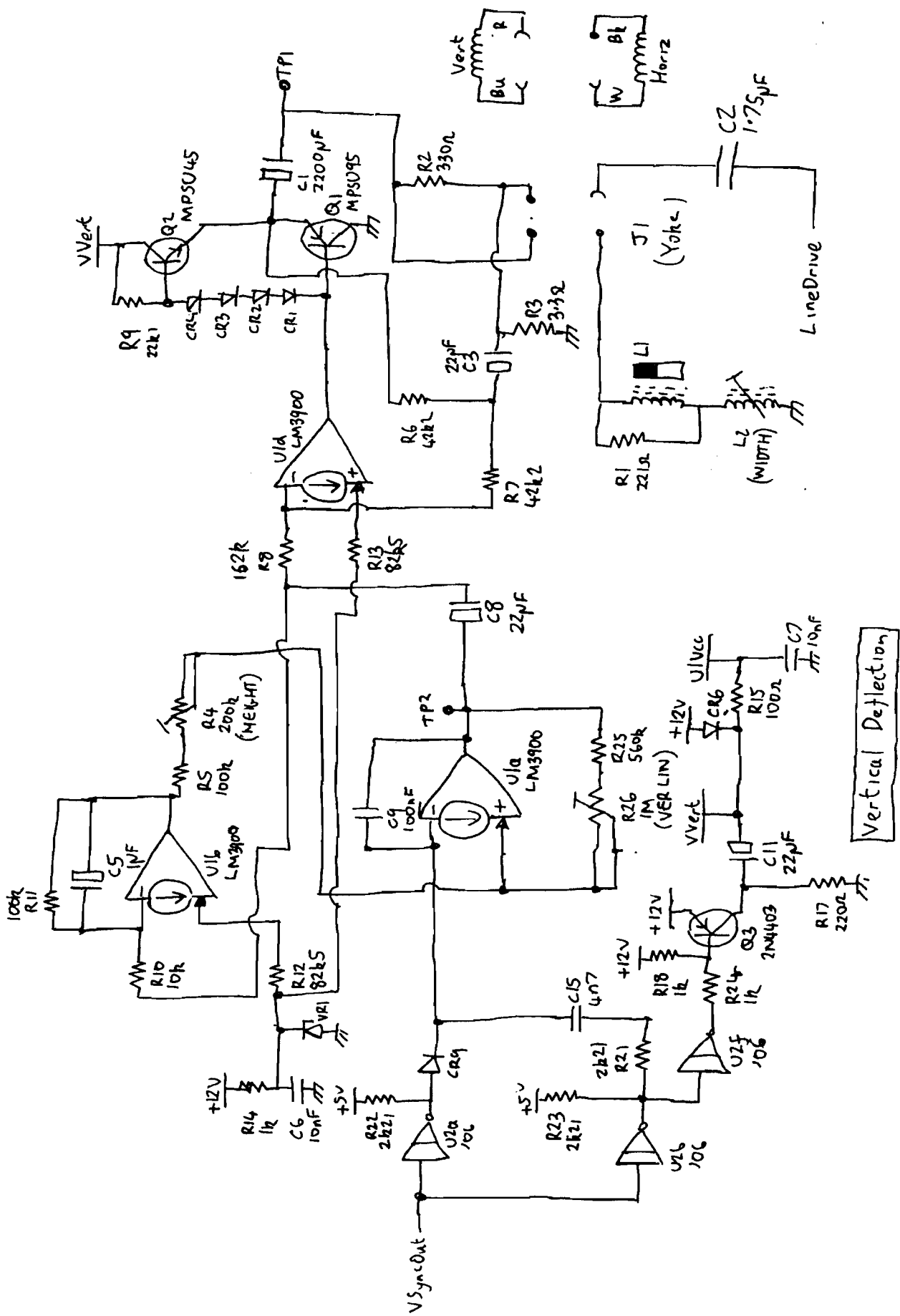


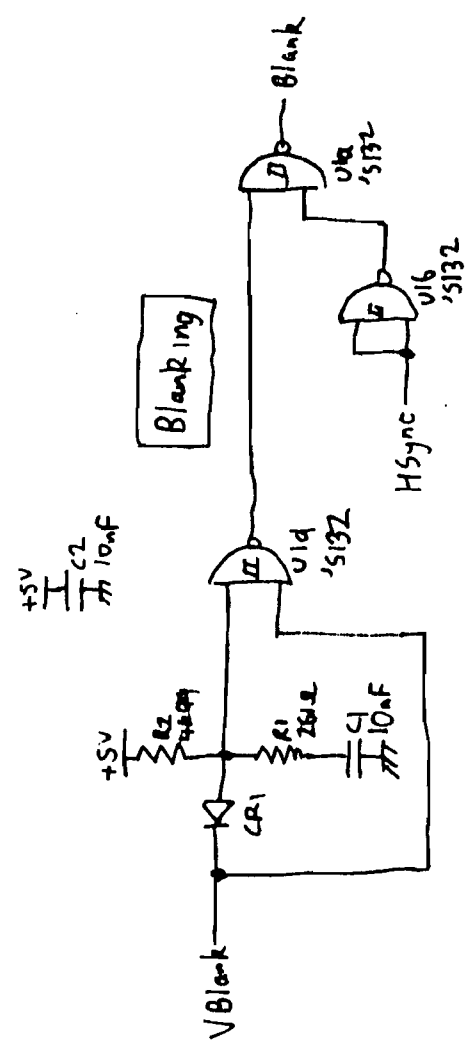
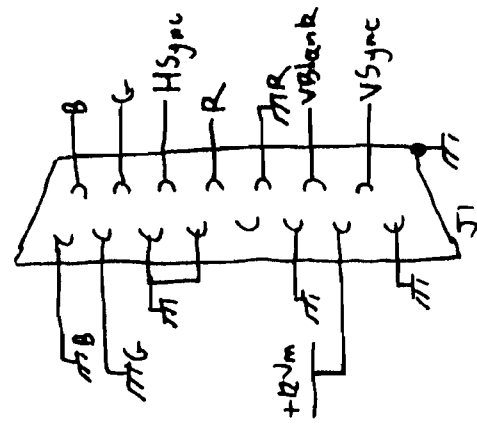
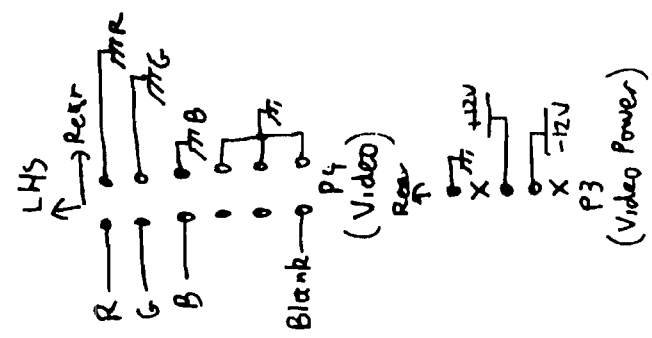
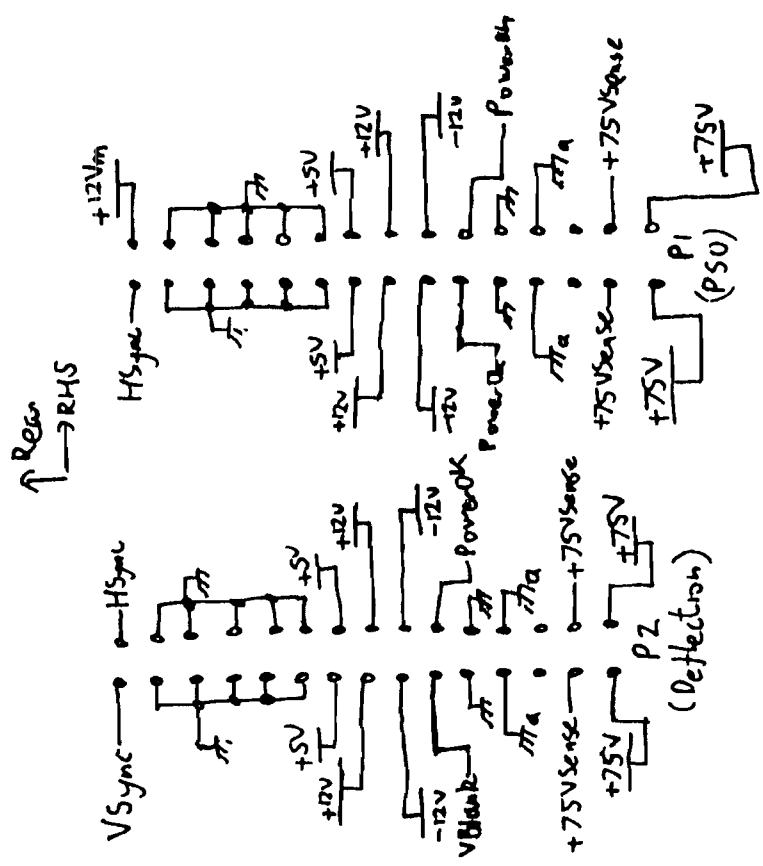
09826-66580

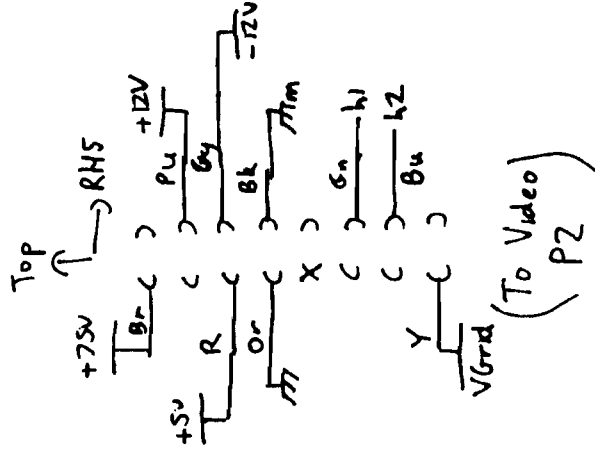
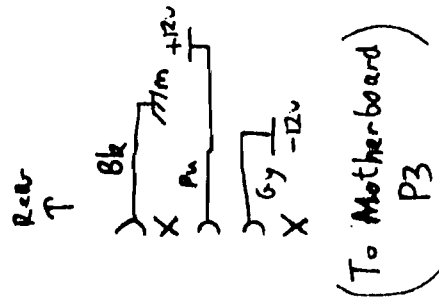
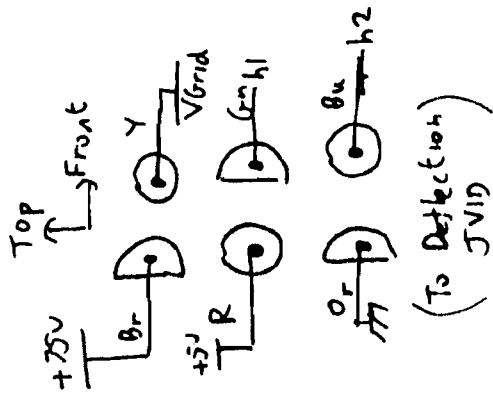
HP9836 Monitor PCB Sheet 1

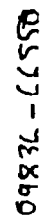


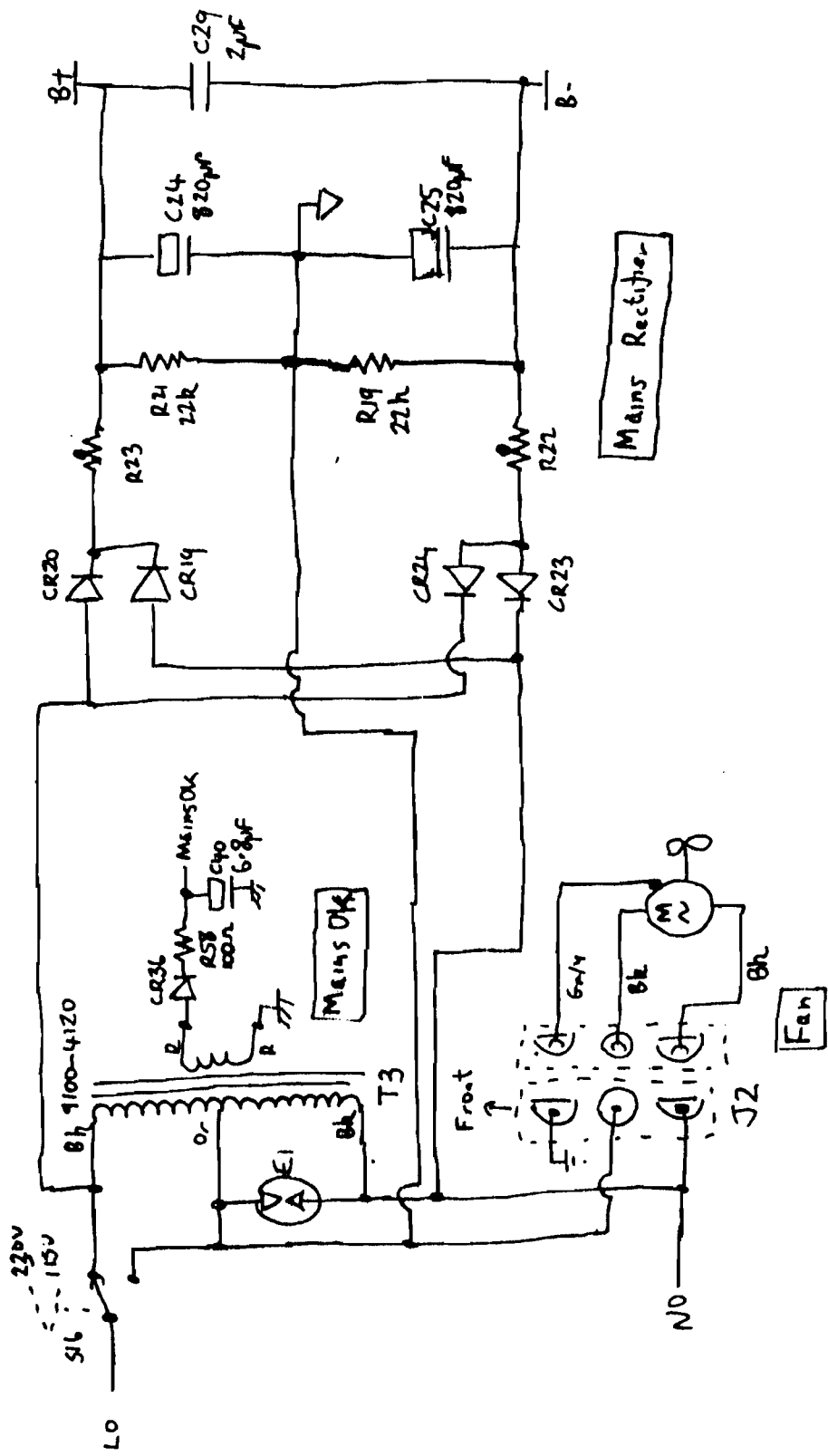






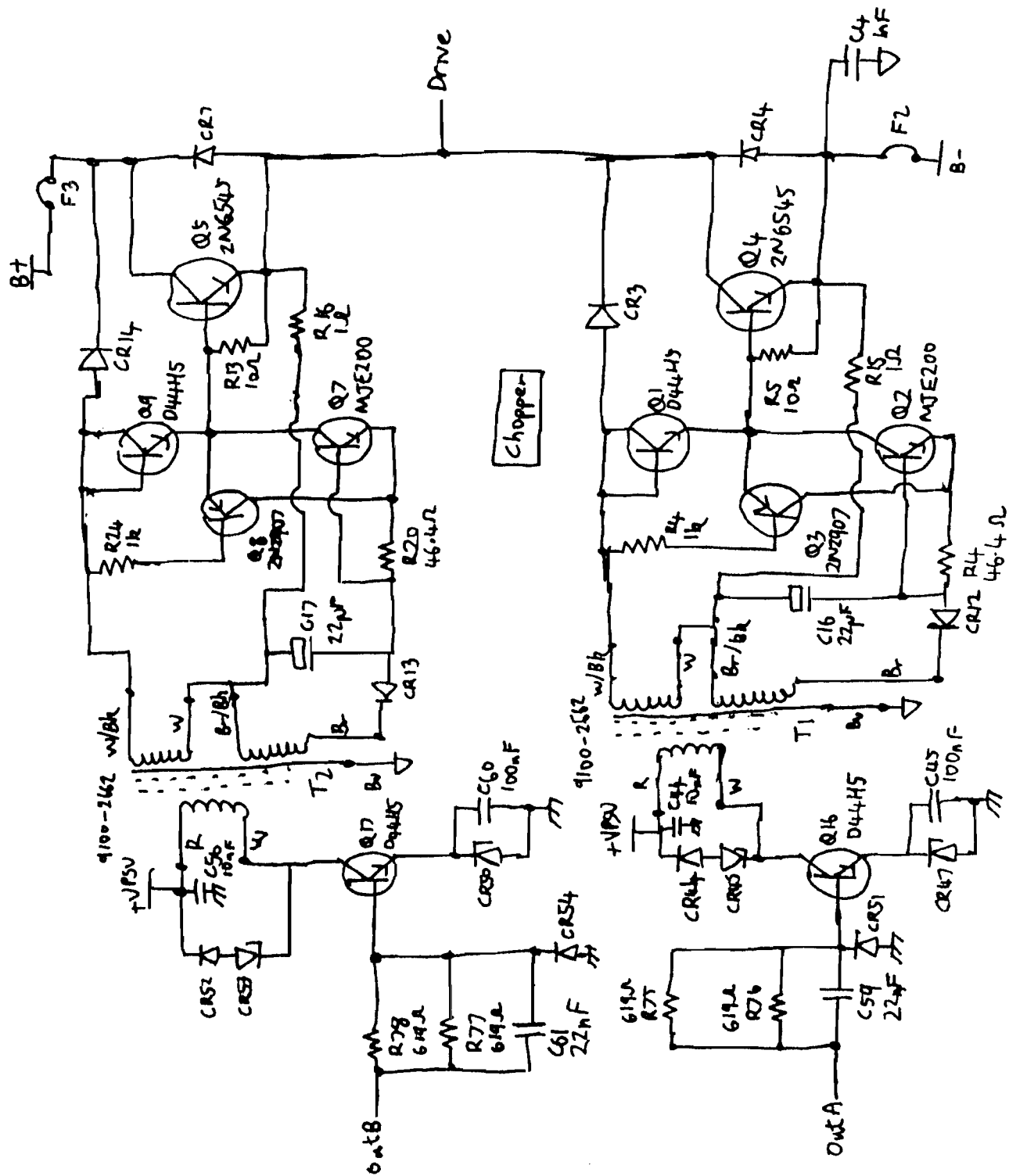


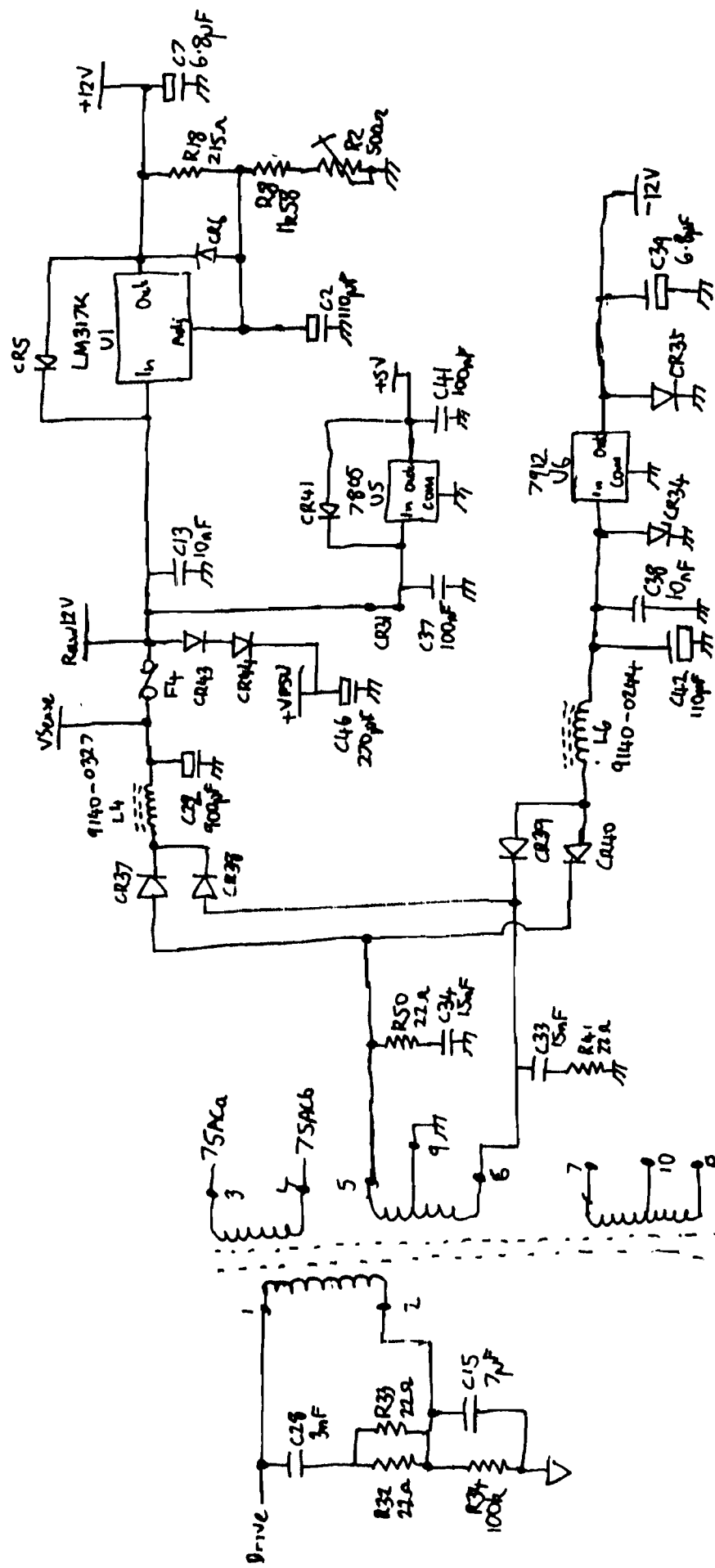




HP9836C Monitor PSU PCB Sheet 2

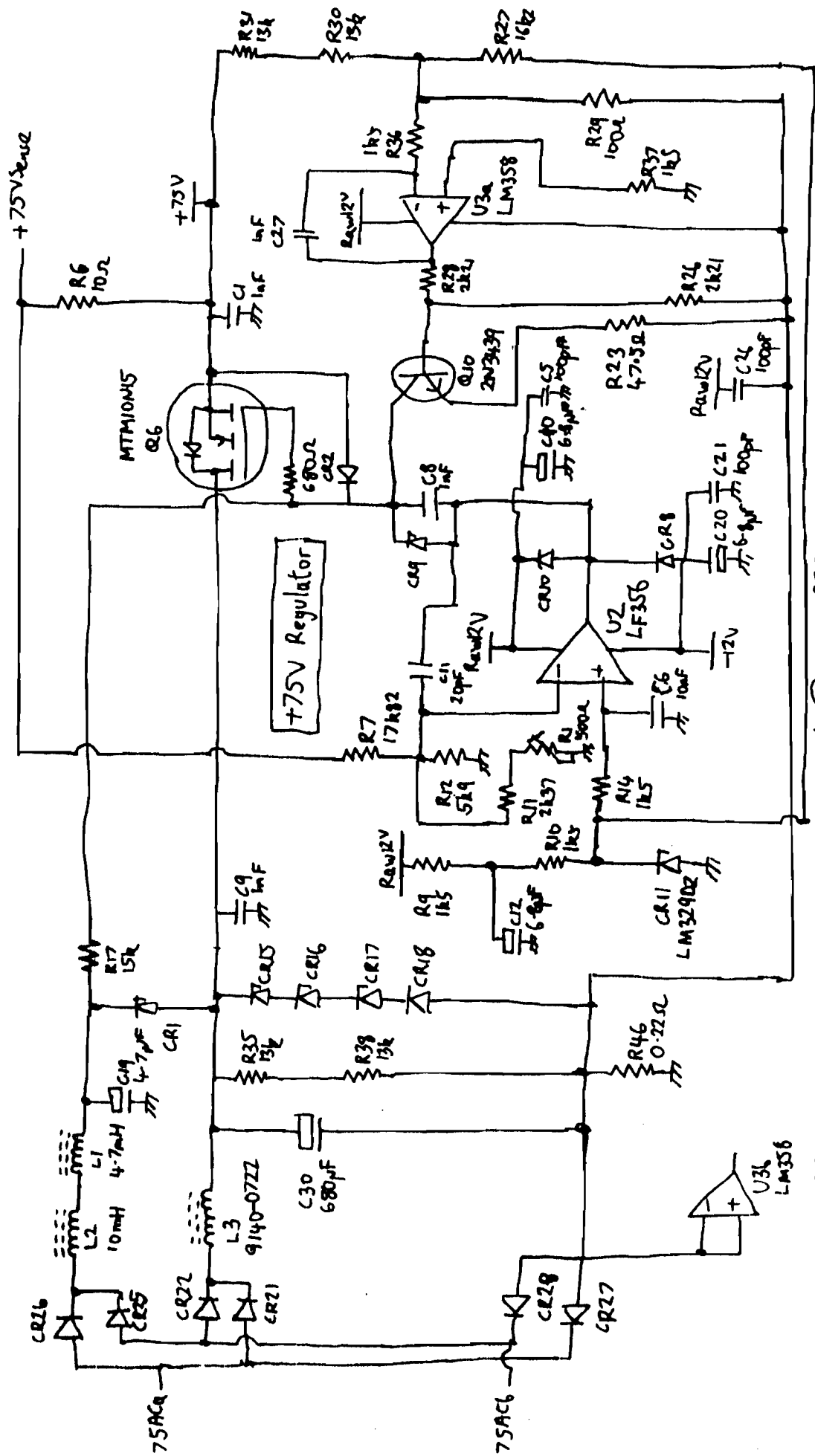
09836-6550

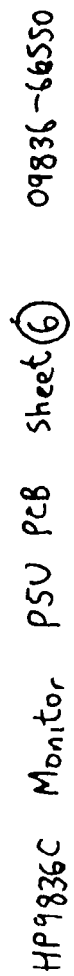


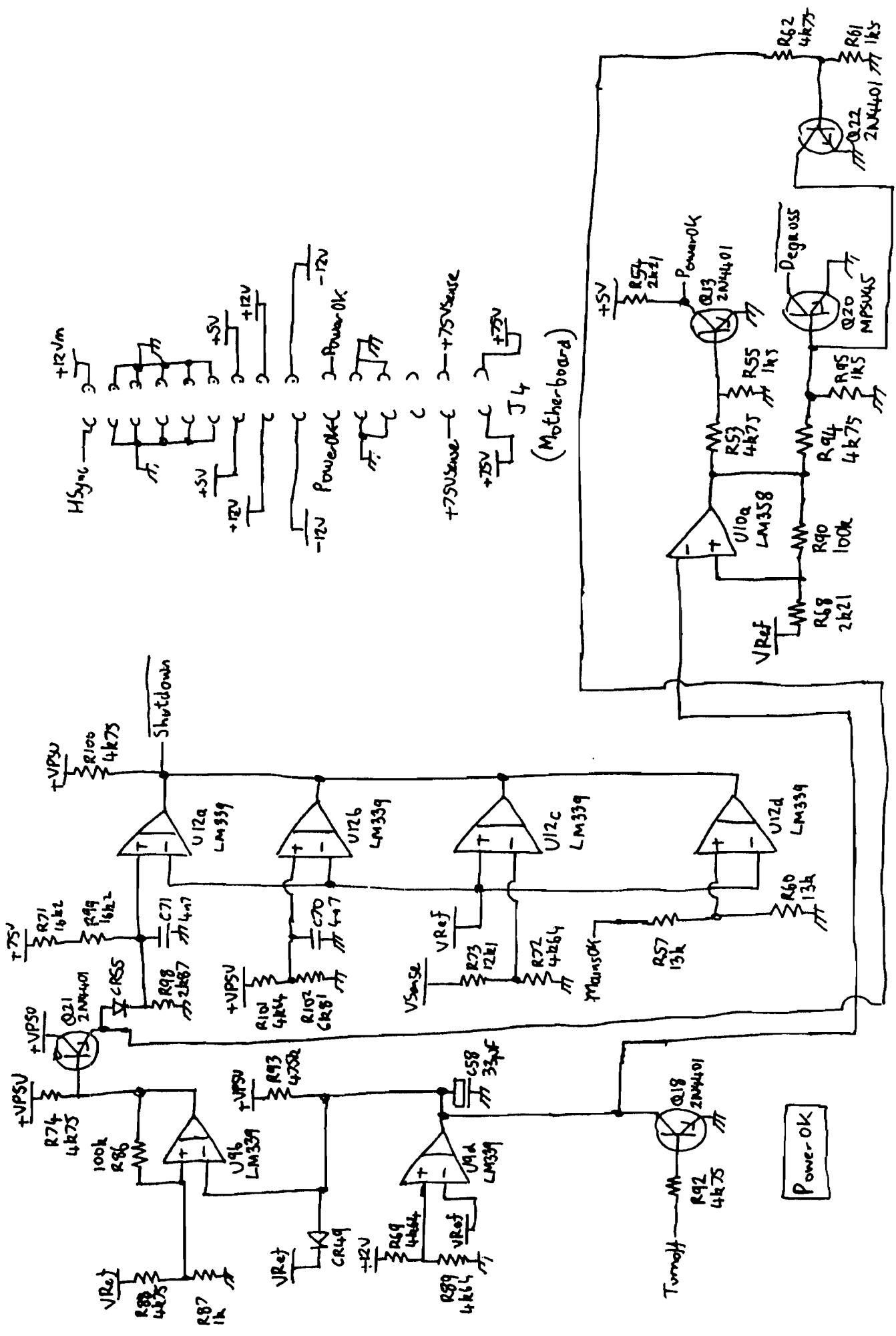


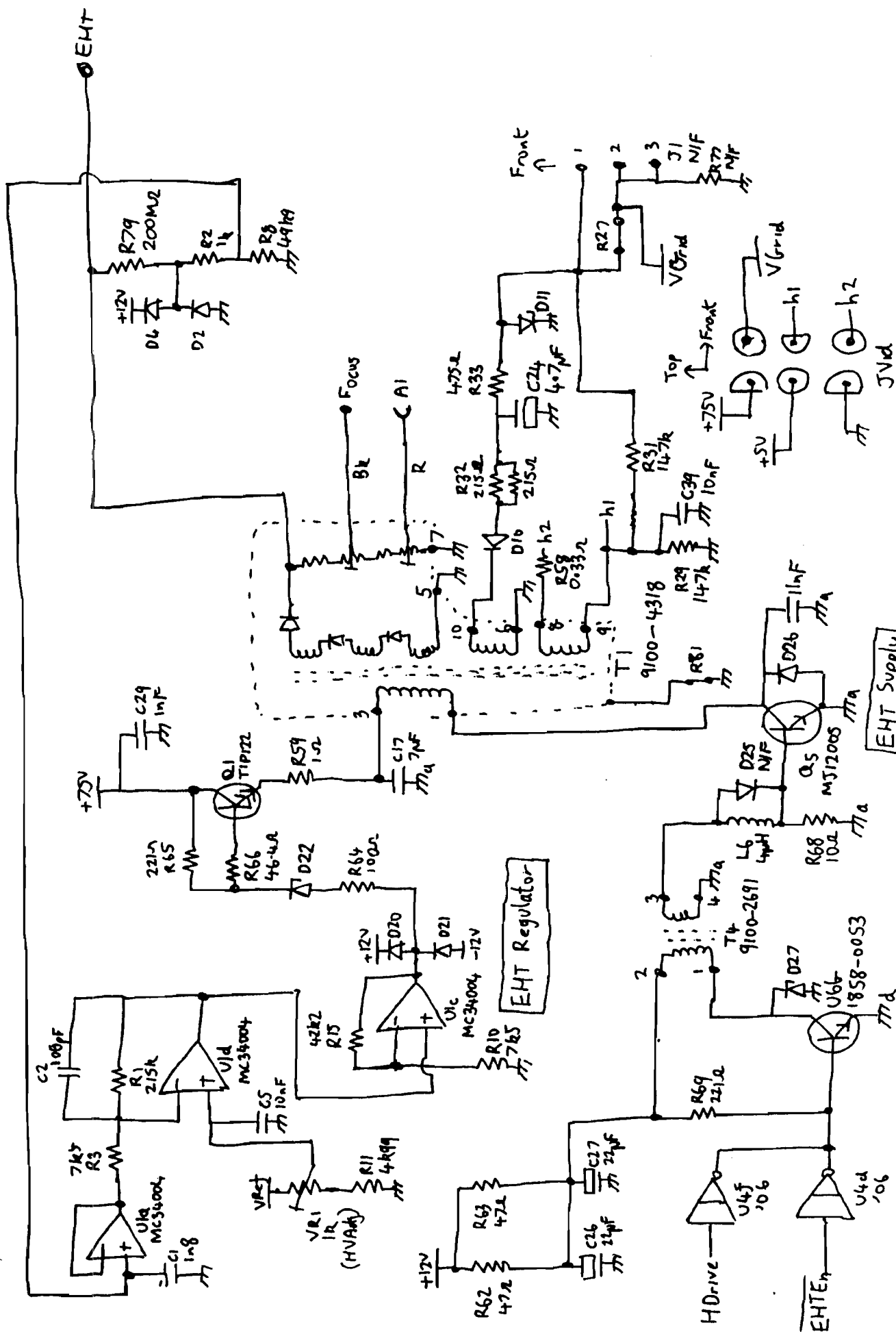
Output Regulators

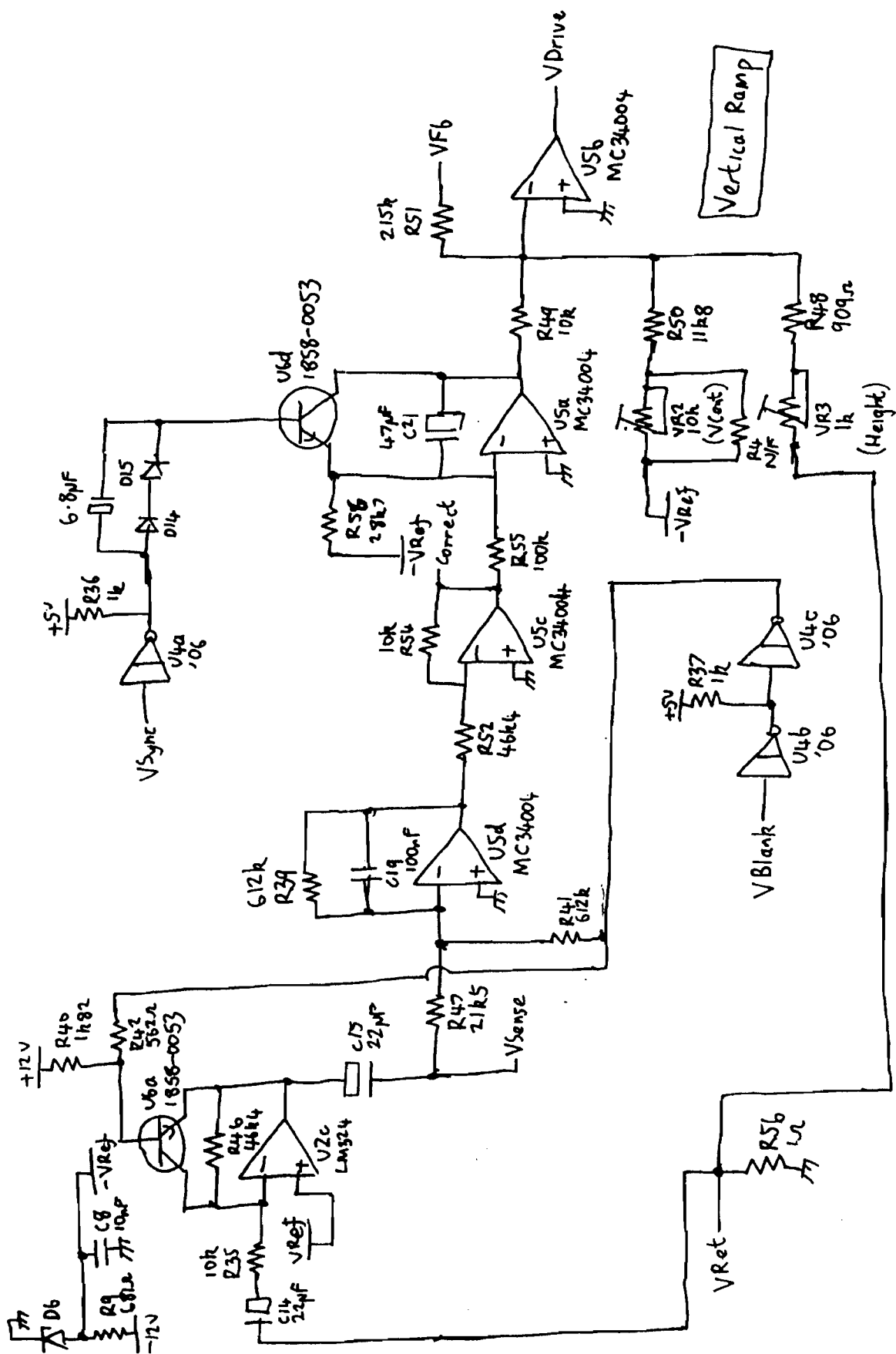
T4
9100-2637
Chopper-Transformer

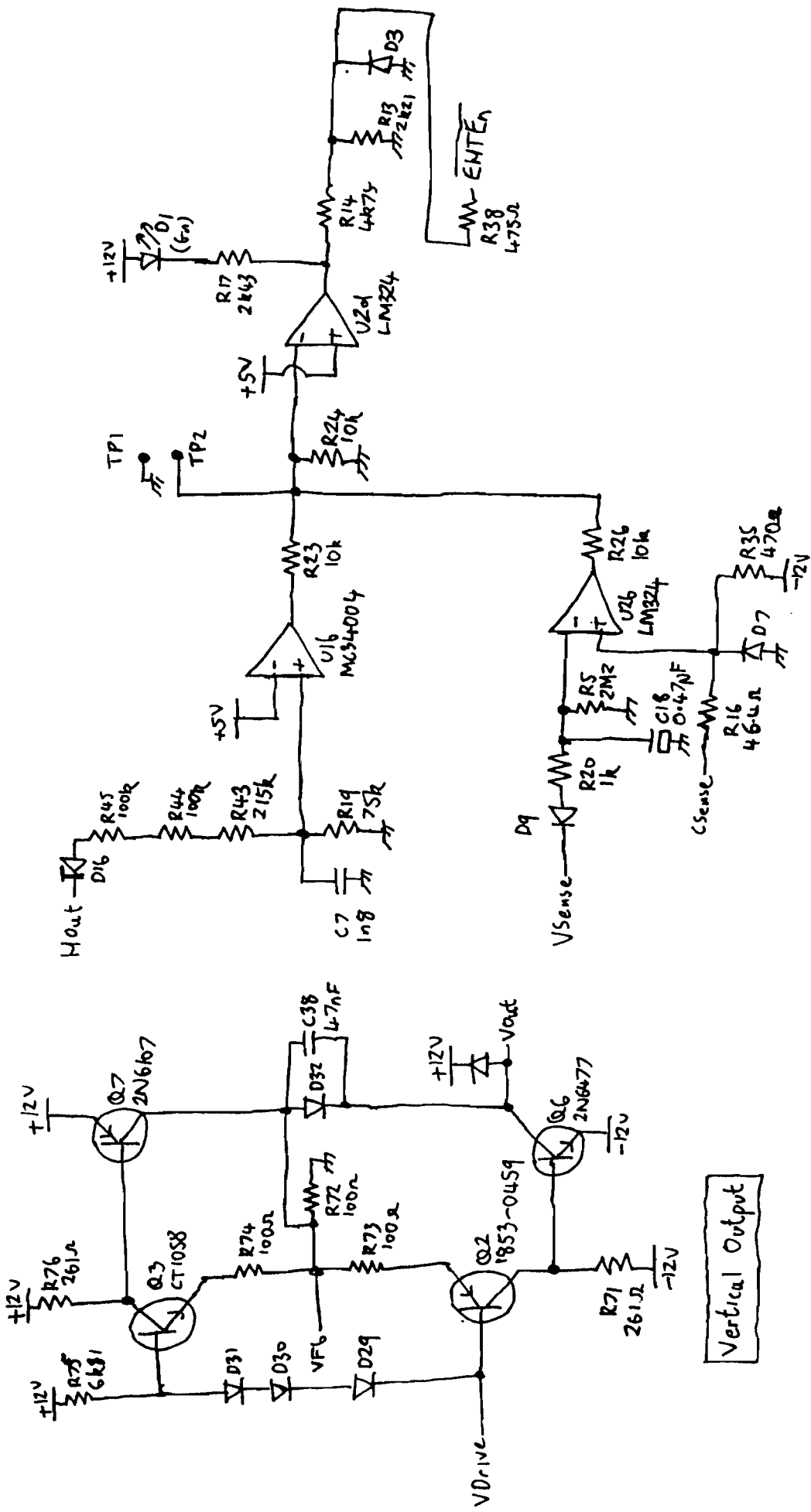


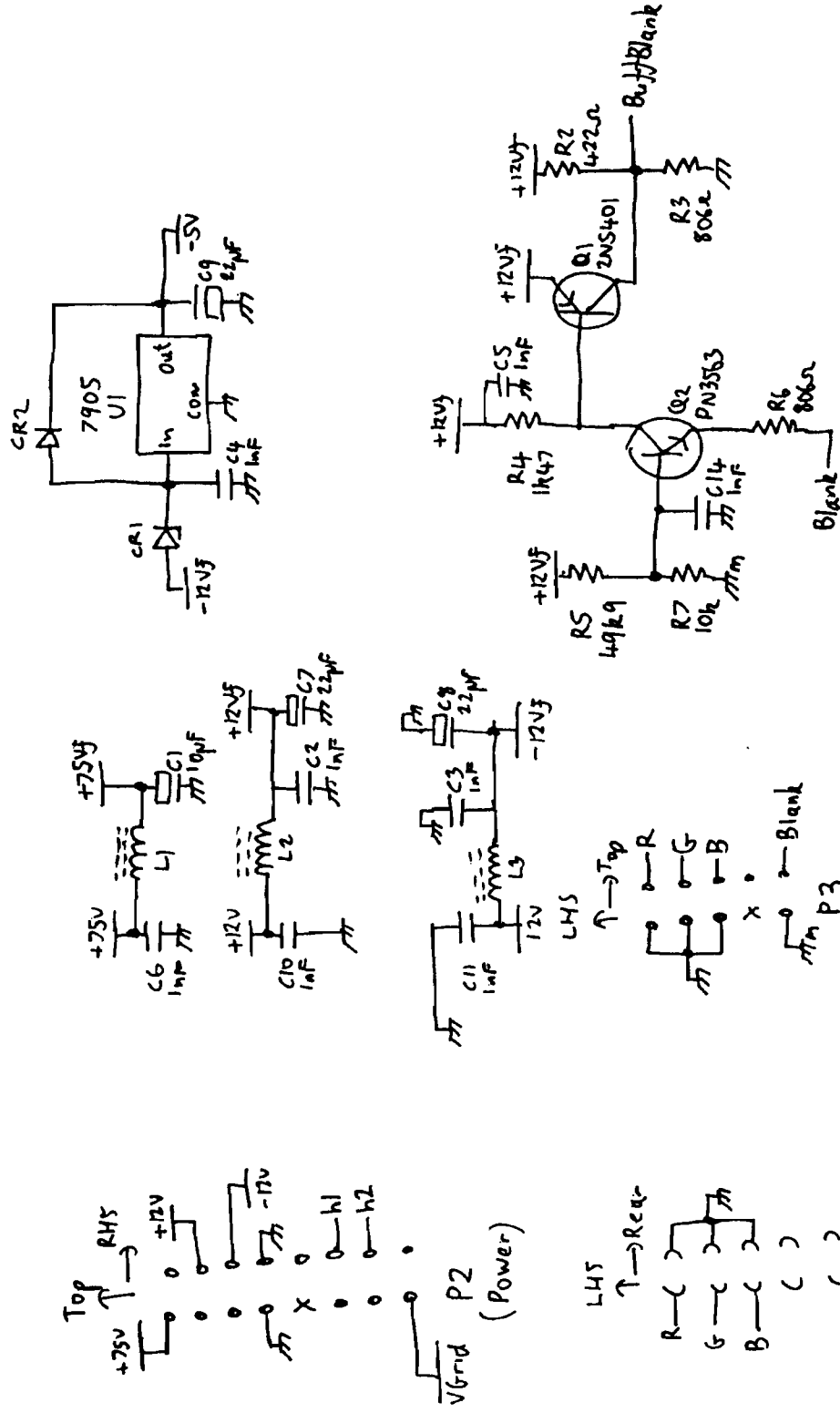




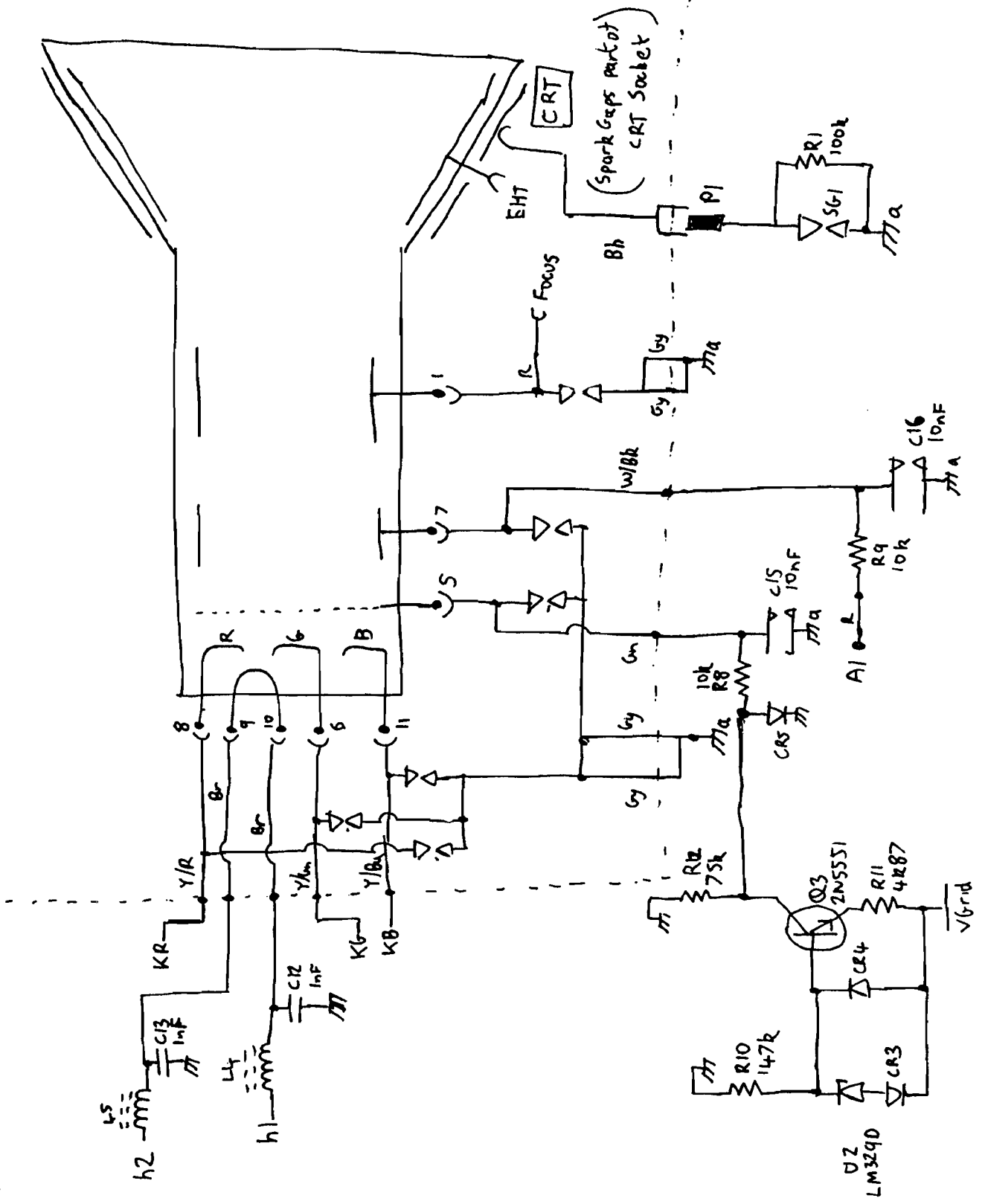


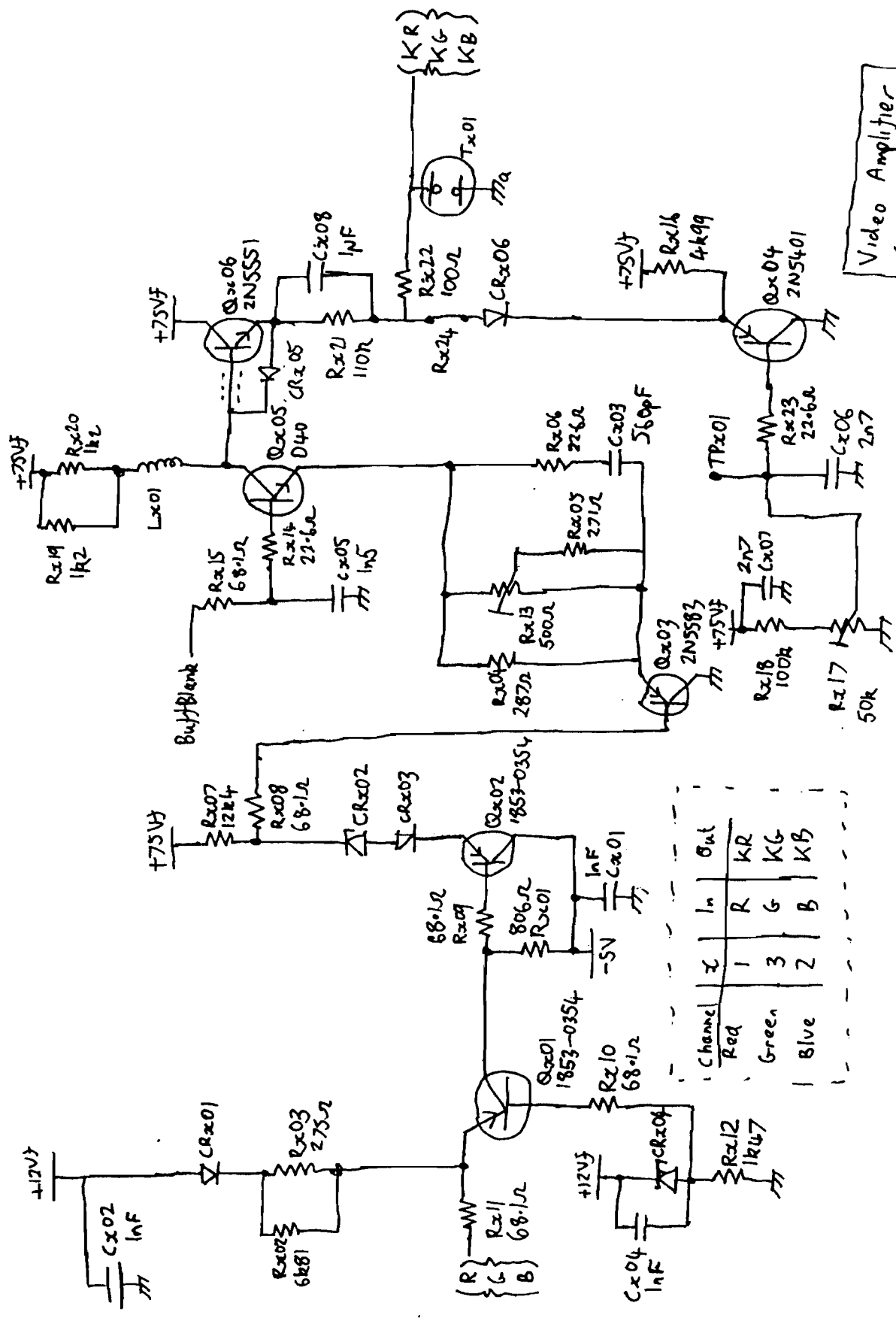






Blanking





Video Amplifier
(Typical of 3)