PANASONIC HHC RL-H1400 SCHEMATICS

TONY DUELL

Schematics of the Panasonic HHC Hand-held Computer
Traced from a working unit and drawn by Tony Duell
Scanned by Dave Colver
Minor image cleanup and PDF creation by Joachim Thiemann
August 2012

RL-H1400 Expansion Connector

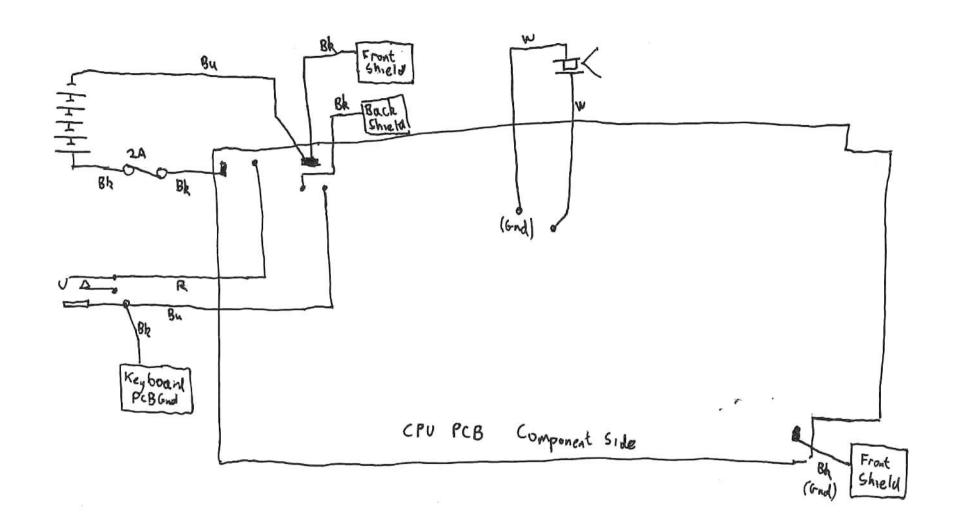
Top		
Beepla - o ptc53		
vch—0 0—VCh	ξ.	
\$2 -0 - Extmem	``	
1RQ -0-1/0051		
Beepla -0 0= 170250		1.0
weepin .		
Sync -0 0-NMI		
AZ - O-AI		
A4-0 a-A3		
VRAM-0 0-AS		
A7-0 0-A6		
A9 -0 0-A8		
All-a 0-DIU	option	ROM Socket
A13-0 0- A12	Rour	
RAM Extrom	\uparrow	
01 -0 0-00	Gnd -c	7-03
03-0 0-02	D2	2-D4
D5a 6-04	01~	>D5
07-0 0-06	Do(2-06
Gad - o - Gay	Av -c	7-07
Beepln 0-+5V		2-Ali
000	A 1—C	
	A2 -C	>-A10
	A3-C	>- CE (A13)
	Ay	2-(A12)
	A5 -C	2-A9
	A6 -C	2-A8
	A7-C	2-Vec

o- on Key 0-KCO O-KC 1 0-KC2 0-K€ 3 0-KC 4 -kc s -KE 6 8-KC 7 0-Gnd a Kay En O BP7 0-BP6 0- BPS O-BP4 0- BP3 0-BPL O- BRI

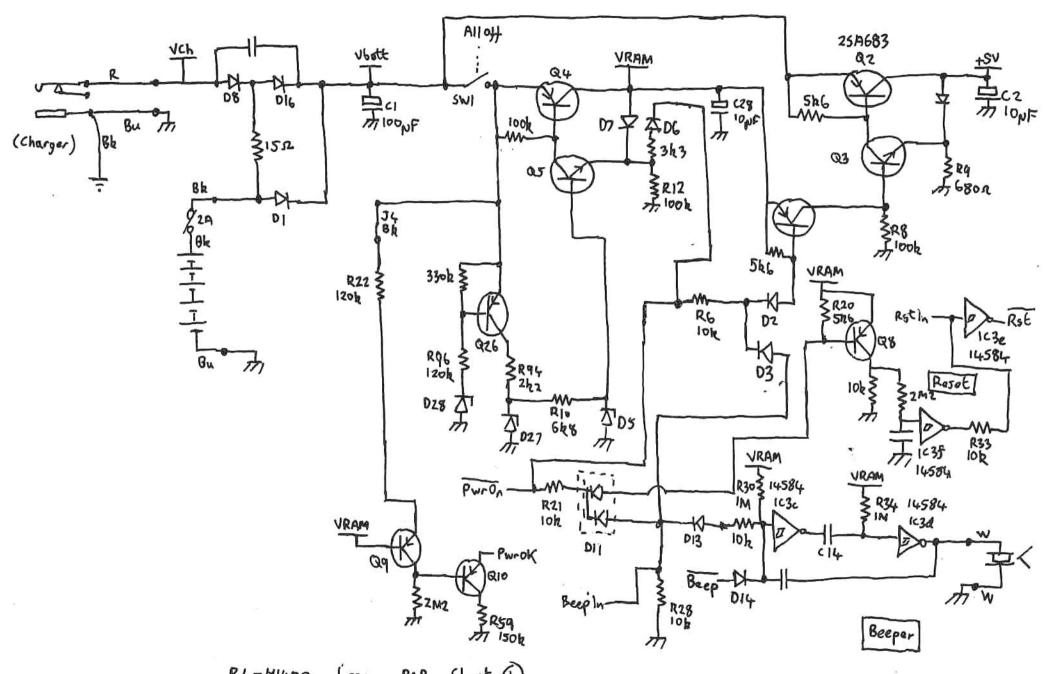
> - BP6 Drivery 13 (59-)13 Daisy chain) o- DDatu a- Dotal Driver/10, Drive 1,2/3 Driver/11, Oriver 1,2/4 Driver/11, Oriver 1,2/1 - Dotg2 0-Dync Driver/12 - BPB -VBP Driver/6, Driver 3/4 Drive/5, Driver/8. -Kcg -A0 -AI

-A3 6-A4 6-A5 6-A5 6-A7 6-VRAM

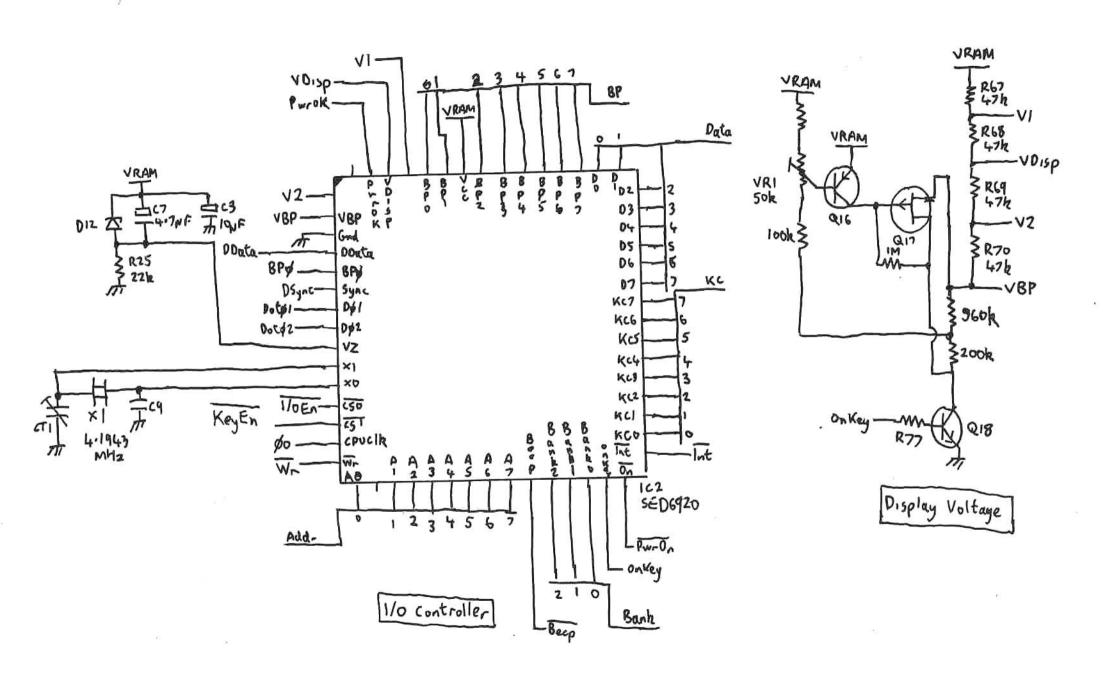
Q-AZ



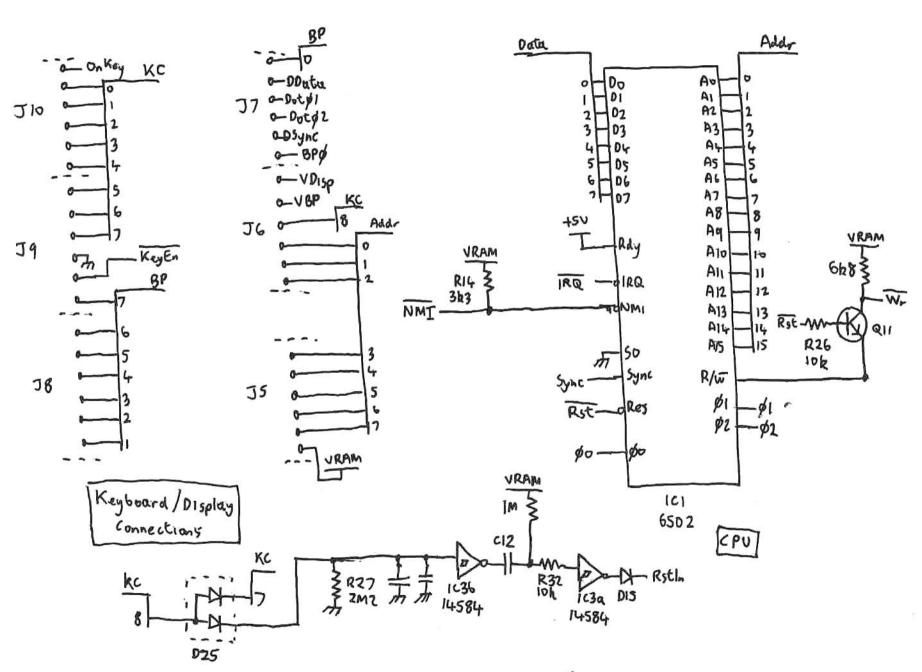
RL-H1400 Wiring



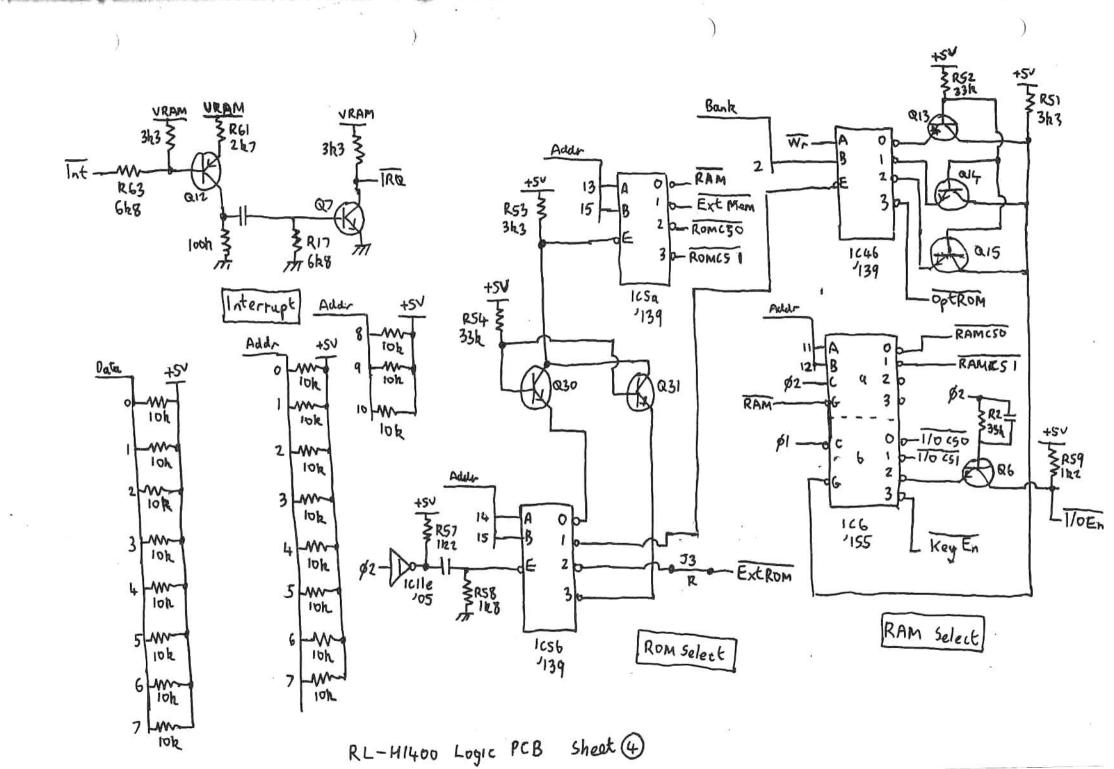
RL-41400 Logic PCB Sheet 1)

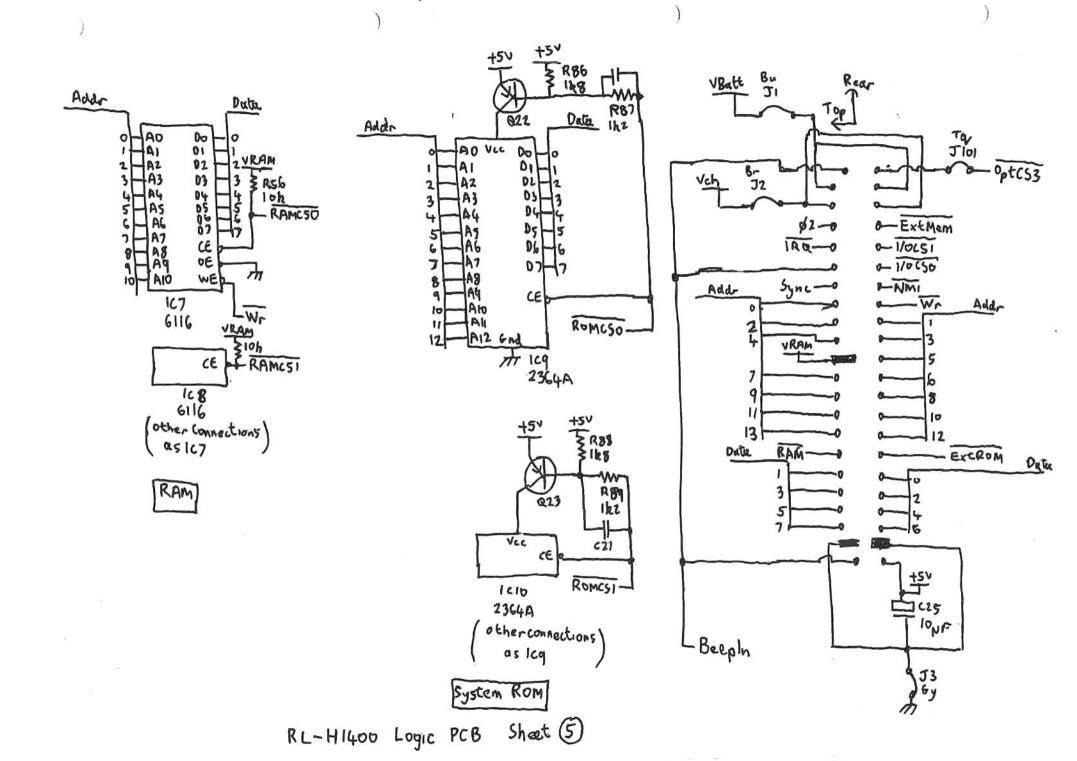


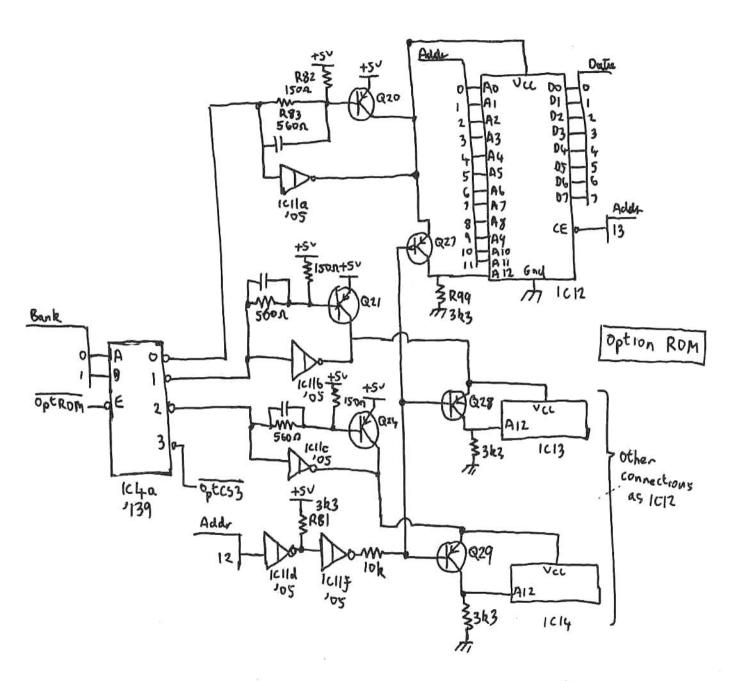
RL-H1400 Logic PCB Sheet 2



RL-H1400 Logic PCB Sheet 3







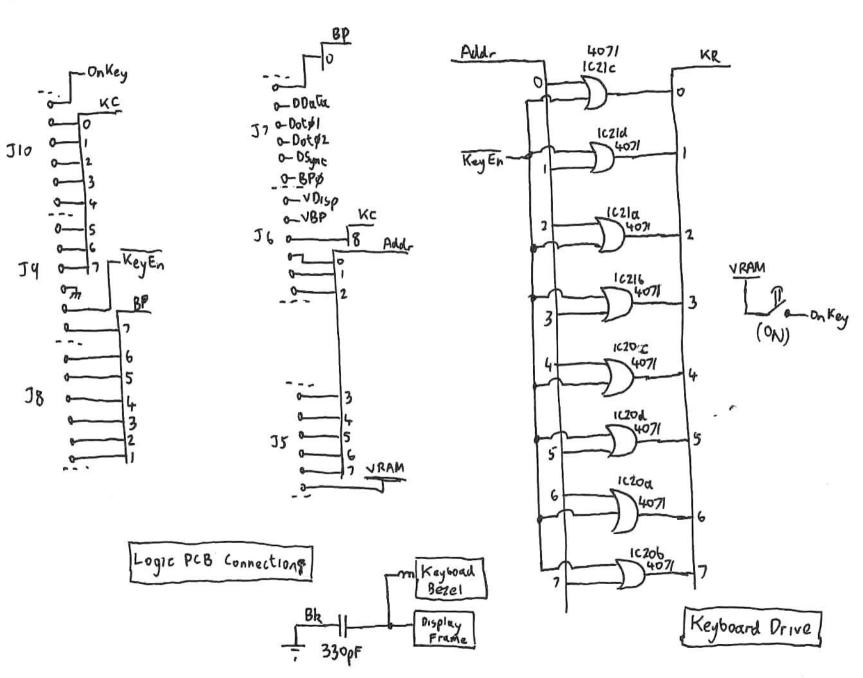
RL-H1400 Logic PCB Sheet 6

RL- H1400

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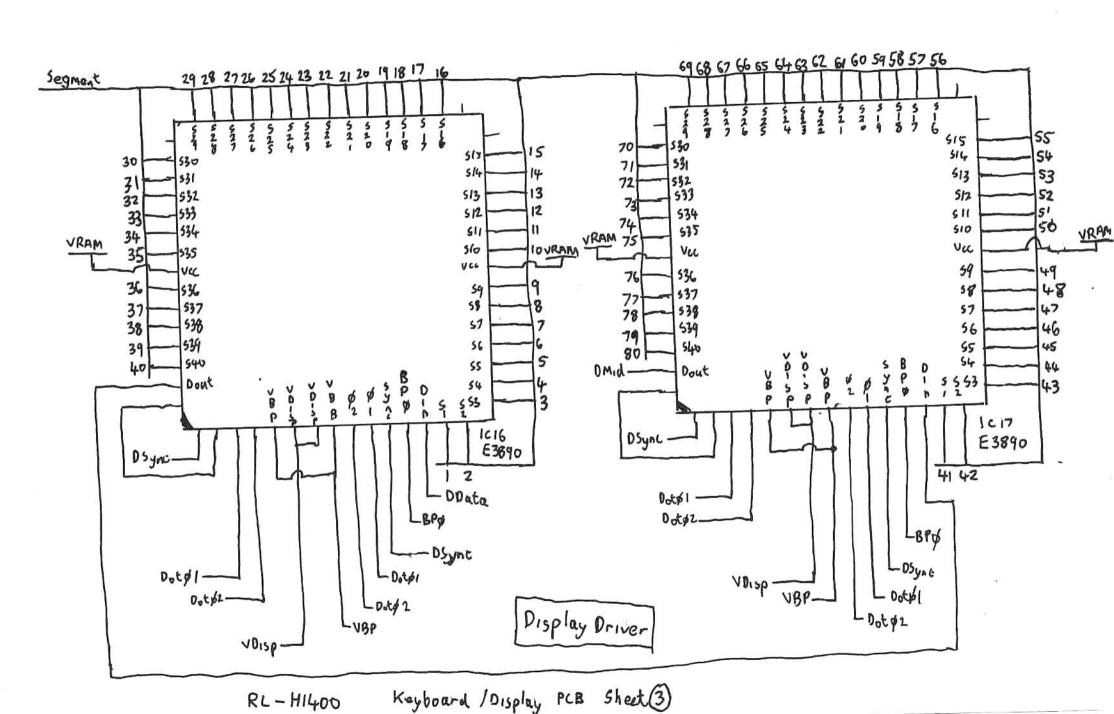
Kag	Row	Column		Key	Row	Column
1	0	6		5	4	0
2	0	5	-	K	5	7
3	0	4		- 	5	6
4	0	3				
5	Ø	2	_ .	FI	5	5
G	0	1		Search	_ 5	4
7	0	0		4	5	3
- 8)	7		Rotate	` 5	2
<u> </u>	1	6		Clear	0	8
0	1	5	_	Z	7	6
Halp	1	4		×	7	5
	1	3		C	7	
1/0)	2		V	7	4 3 7
		6	_	В	6	
Q	2			N	4	7
W	2	<u>5</u> 4		M	2	
E		3		j	6	Ļ
- R	2	2	-)	1
- '	2		_	F2		1
-	2	Ö		lusert	<u>3</u>	
·I	3			Delete	124-14	- 1
0	3			Lock	7	7
P	3			۲)	6	6
4	3	4	•	(2	6	5
STP		3 3		- 63	6	1
->		3 2		- 64	6	0
ort		7 2	<u>. </u>	7	6	3
A	L	, 6		Space		2
S	Ĺ	, 5		2nd sp		0
D	ı	+ 4	1	F3	3	
F	- L	t 3		Ente		
G		4 2		**		
H	1	4 1		Shift	, ,	,

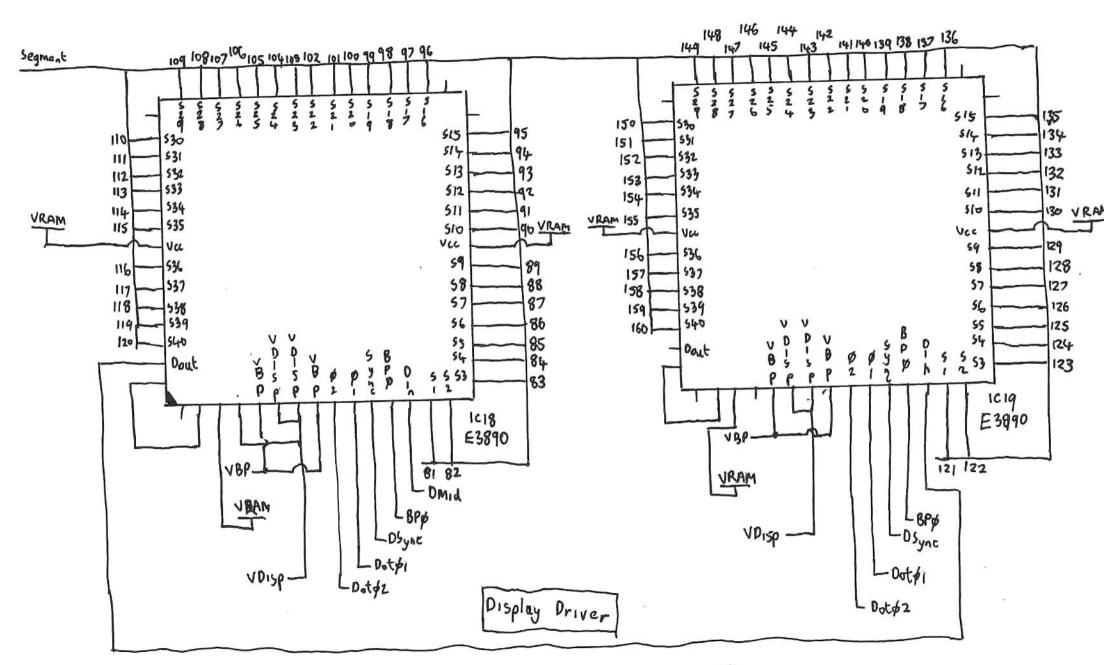


RL-H1400 Keyboard / Display PCB Sheek 1

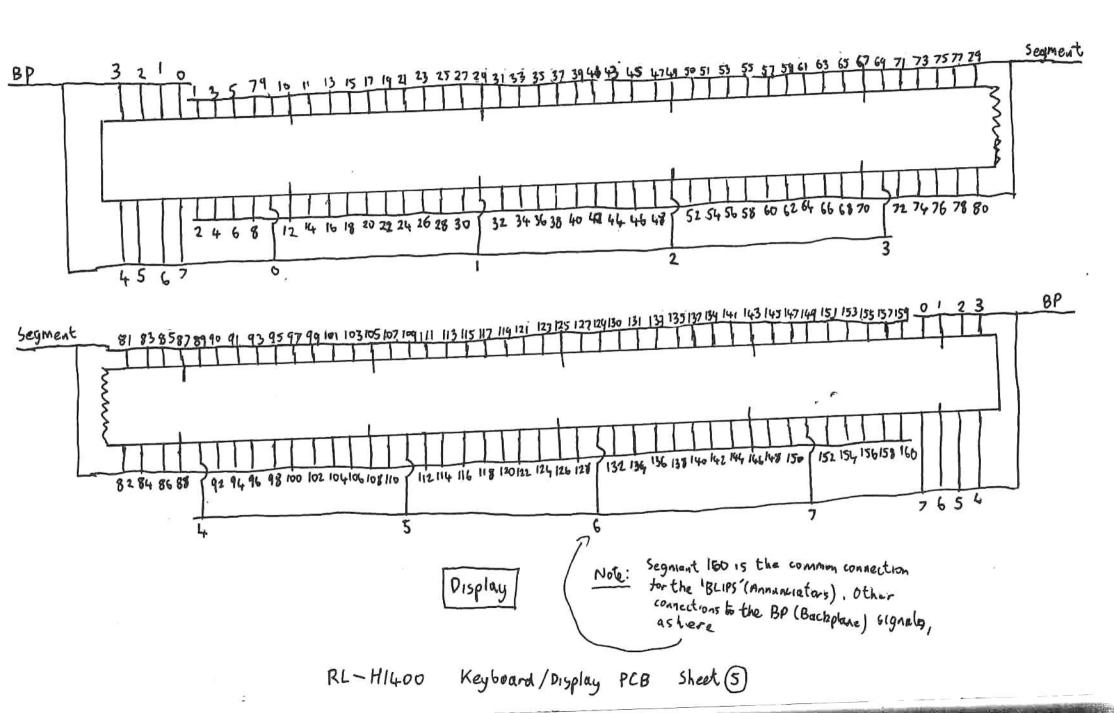
K		1	2	3	4	\$	6	7	8	-
KR	7,2	G/	5/	4	3/	2	-1/	_	CLEAR	
4= 24	2nd SFT	•/	1/0	1	Help	ø	9	8		
		y.	7	R	E	w	9	M		
	2 F3	F2	→	STP	4	P	9	Ţ		
	3	4	G	F	D	s	A	. 27		
Keyboard	SHIFT	INSERT	Rotate	4	Search	F1	4	K,		
	5 (4)		SPACE	?		c2/	دار	В		
	6 ENTER	DELETE	OFF	V	KÇ.	×	Z	LOCK	2	
	7/	RL-H			rd / Displa		heet(2)		W.	

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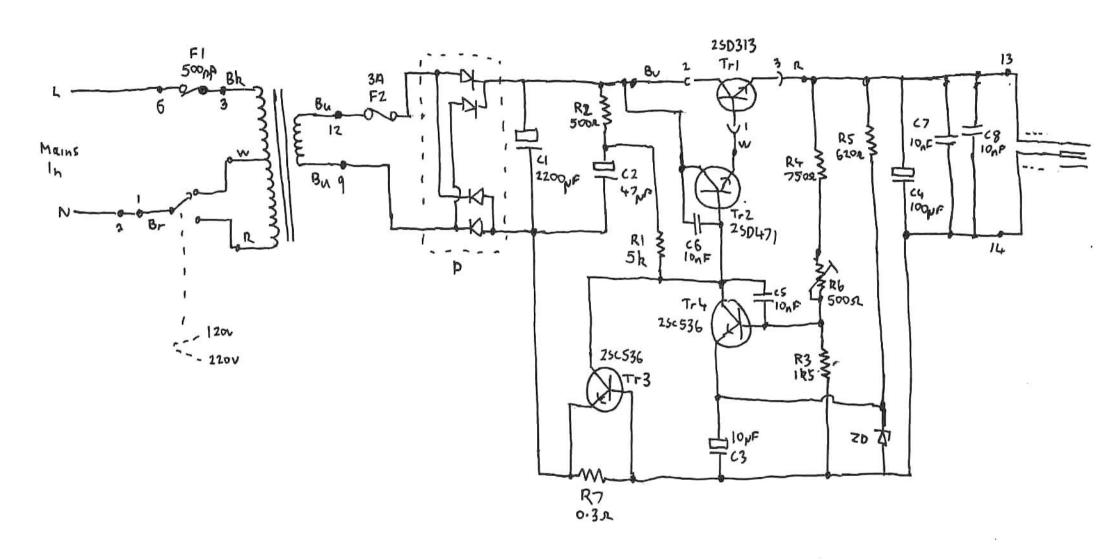


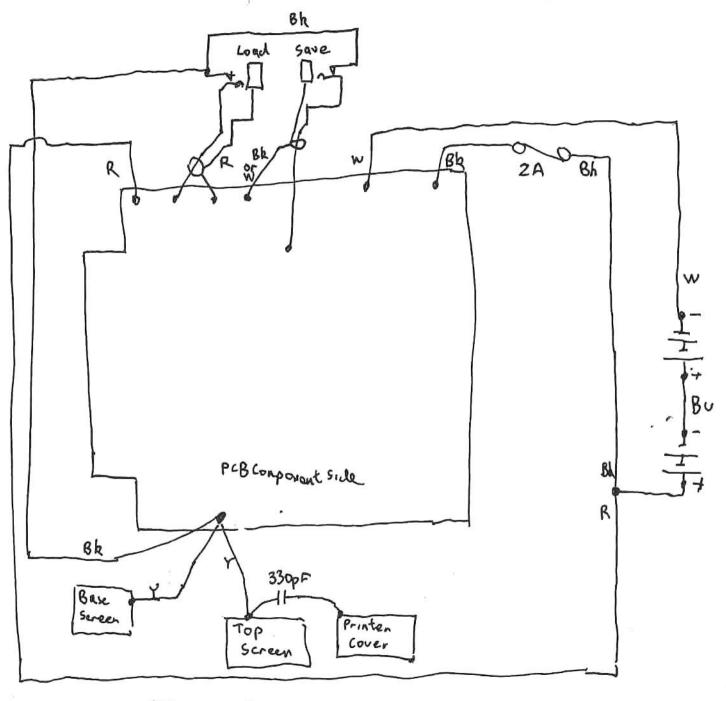
RL-H1400 Keyboard Display PCB Sheet 4



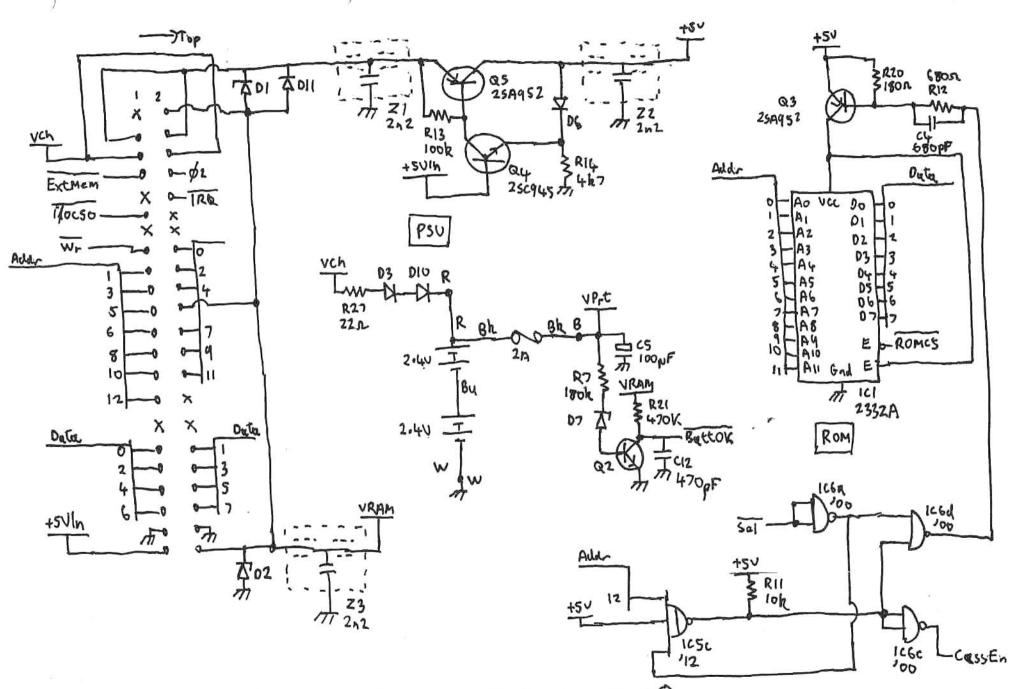
Mains IIIsvan Reserved to the state of the s

RD-9493 (US Charger)

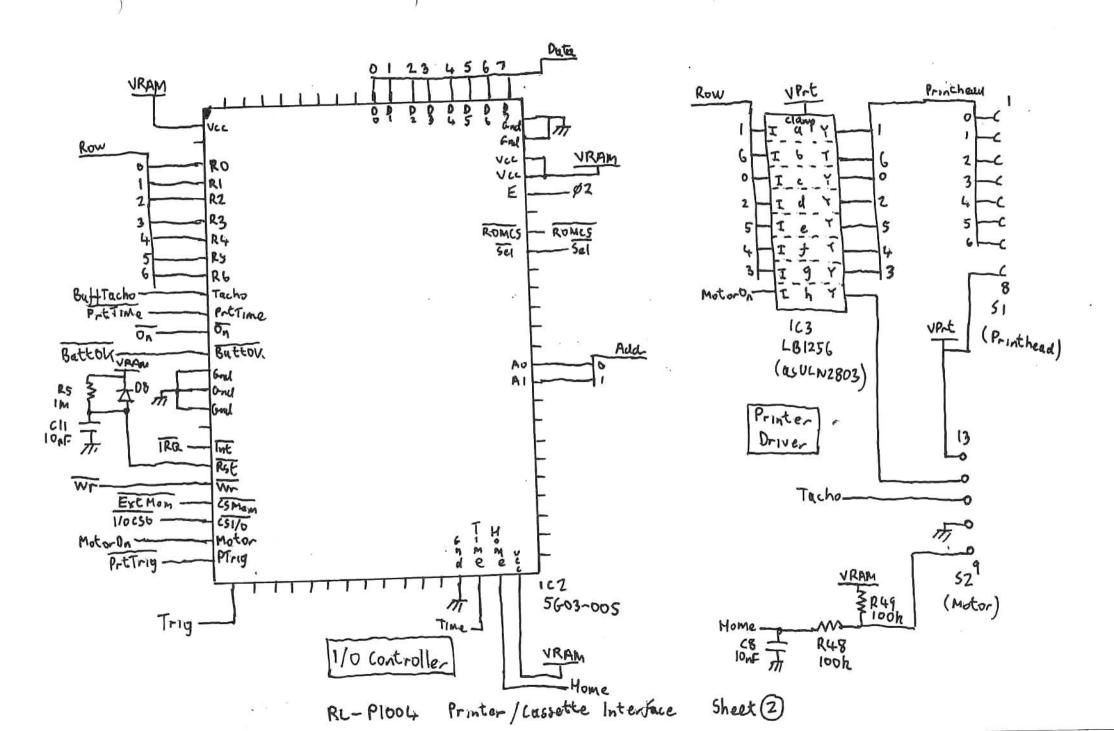




RL-P1004 Wiring

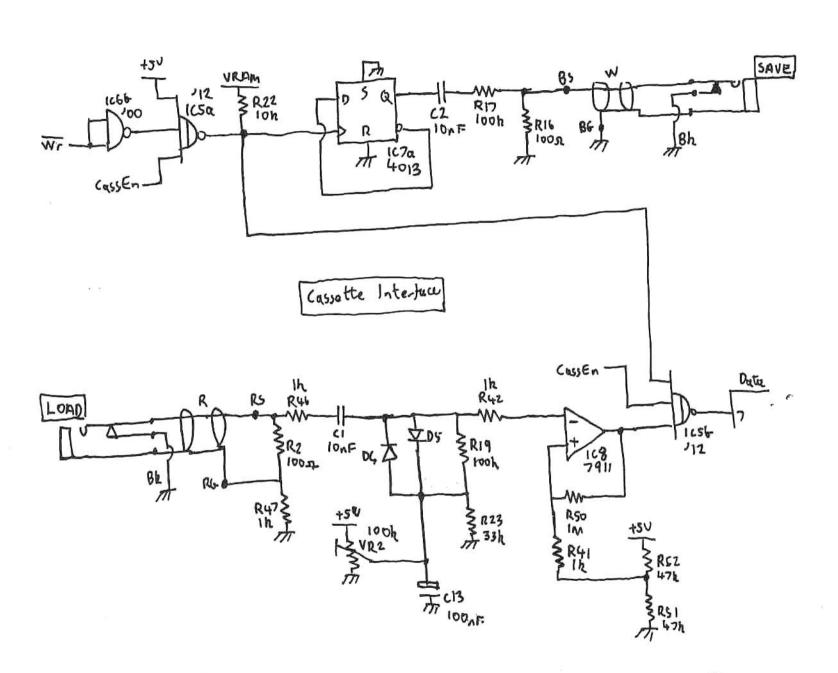


RL-P1004 Printer/Cassette Interface Sheet()

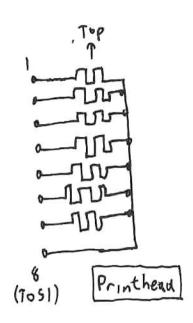


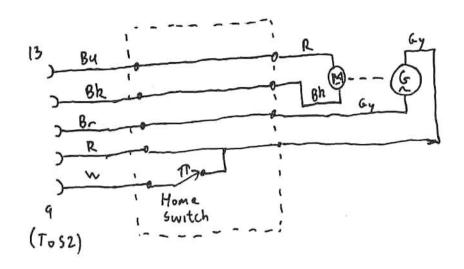
100 x F VRAM 100h RIO Re C -TIME Trig ₹ R15 100h 1c4a 4538 R4 220h 3R1 1220k -02 +5VIn BuffTacho Q6 25c945 Tacho-N) 25cq45 ROR k3 10 h 22nF C6 120p⊑ ₩V~ 1HT R8 33h PrtTrig PrtTime 1646 4538 VRAM Printer Timing

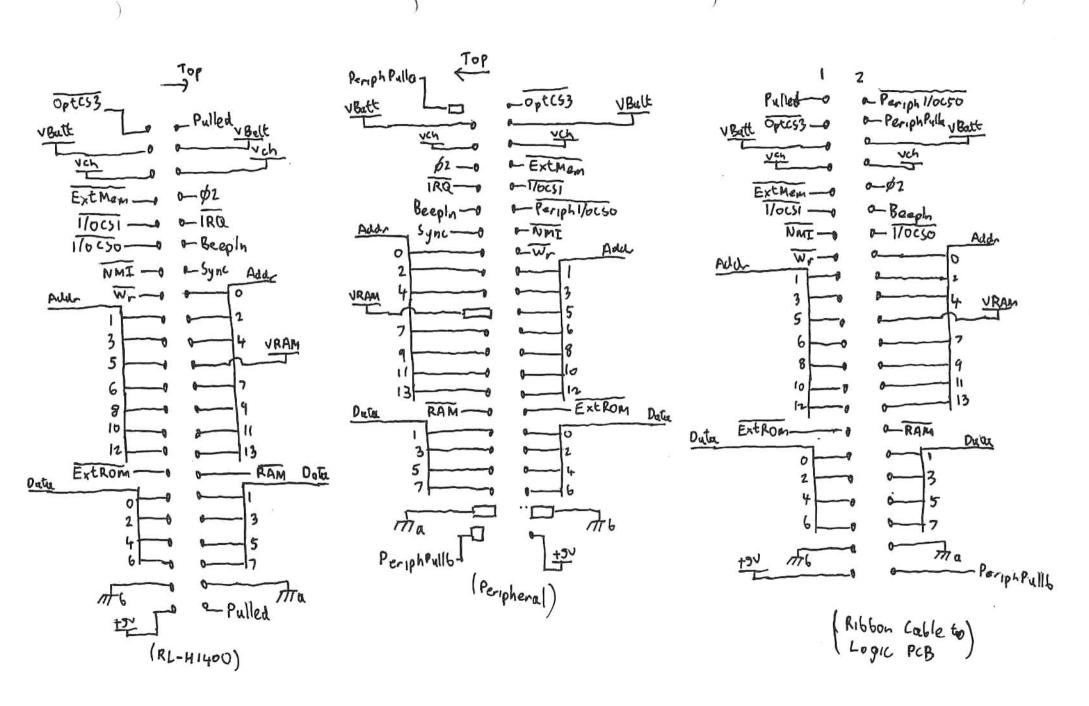
RL-P1004 Printer/cassette Interface Sheet 3



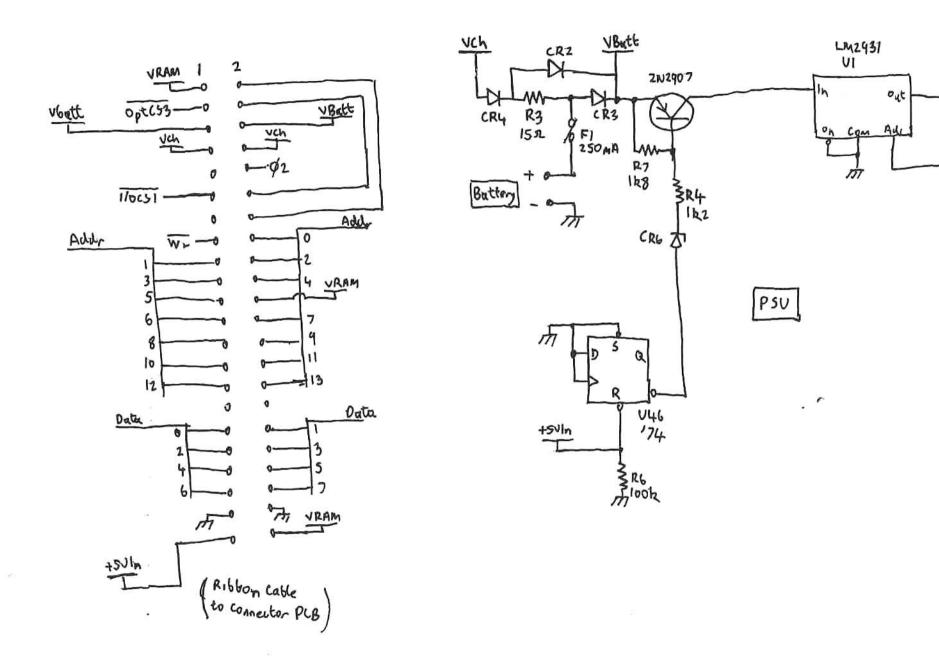
RL-P1004 Printer/cassette Interface Sheet(4)







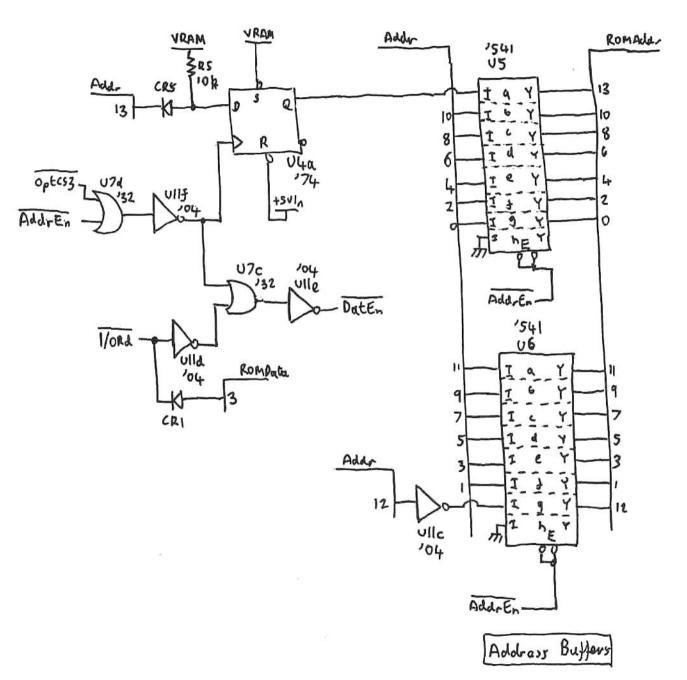
EPROM Expander Connector PCB

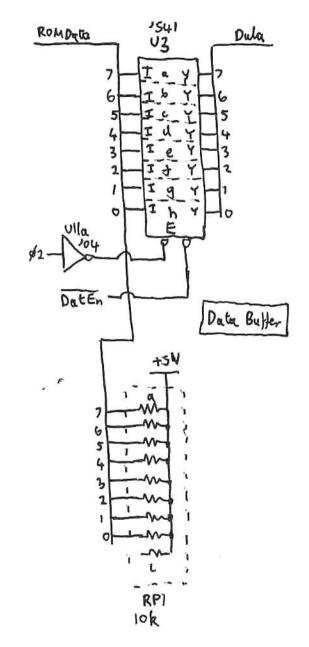


45V

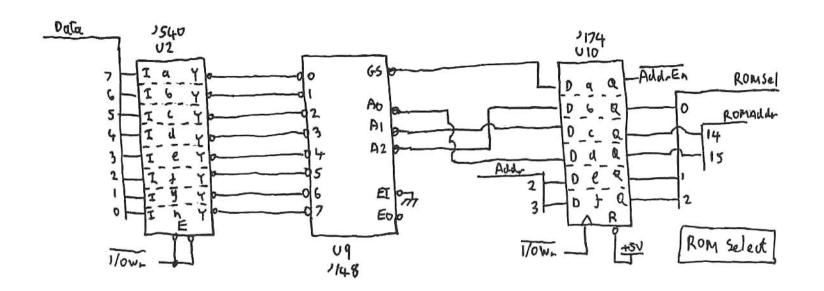
R2 27h

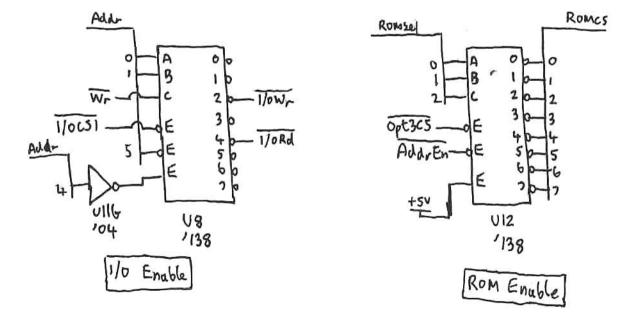
EPROM Expander Logic PCB Sheet 1





EPROM Expander Logic PCB Sheet 2





EPROM Expander Logic PCB Sheet 3

