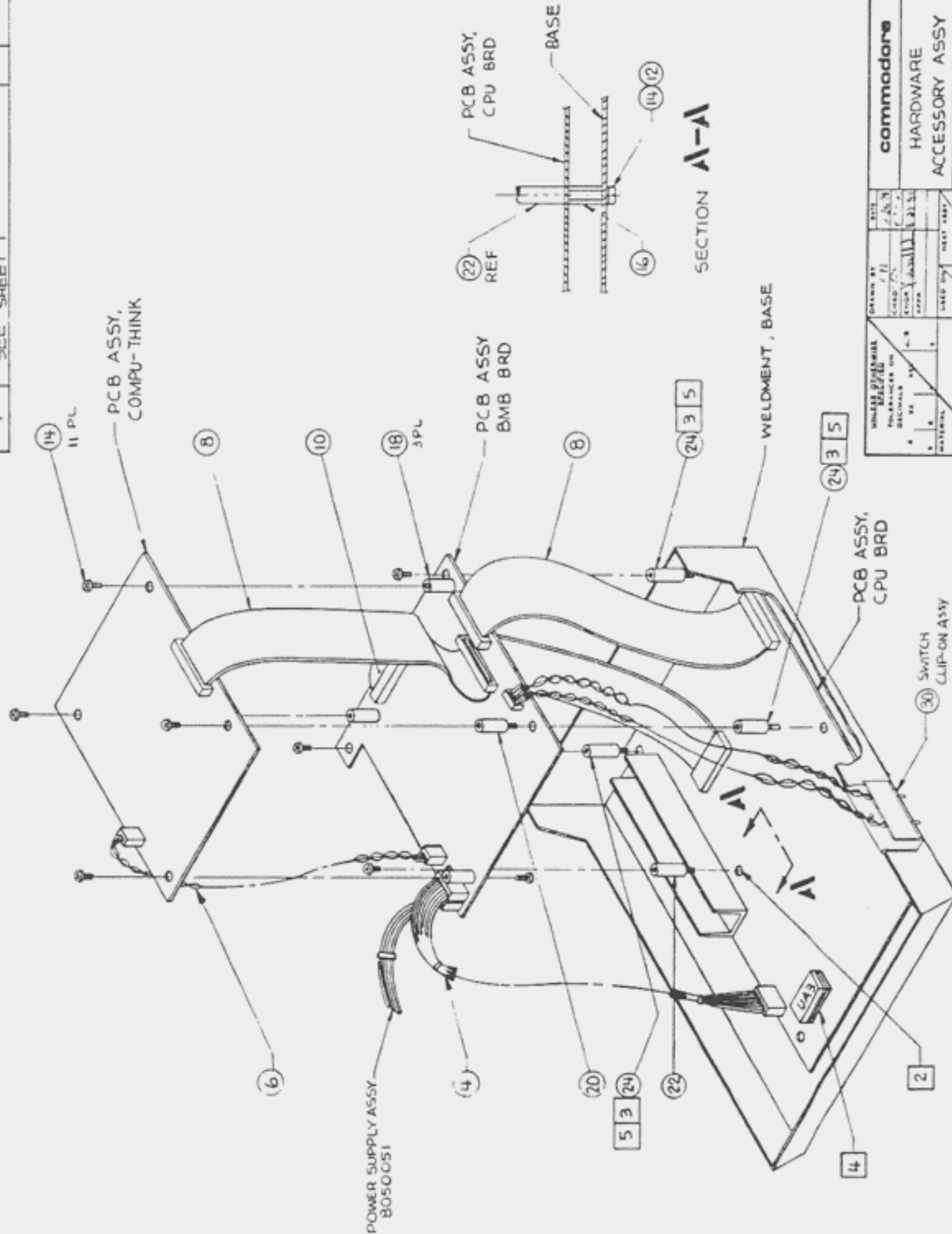

Commodore Super-Pet

Technical Manual

Model SP9000



 **commodore**
COMPUTER



PART NO.	DESCRIPTION
324038-01	PCB ASSY-BMB 60 HZ

REVISIONS		
LTR	ZONE	DESCRIPTION
A		PRODUCTION RELEASE
A		PER ECO 2263
A		REV PER ECO 2248
B		REV PER ECO 2310 & 2324
C		REV PER ECO 2377
D		REV PER ECO 2458

DATE
8/26/81
9/21/81
9/21/81
10/9/81
11/26/81
1/19/82

- 6 ROMS CAN BE REPLACED WITH A PROGRAMED 2516 EPROM.
- 5 ROMS CAN BE REPLACED WITH A PROGRAMED 2532 EPROMS.
- 4 REQUIRED WITH REV A ARTWORK C
- 3 SOLDER JUMPER TO XTAL & PCB

2, IDENTIFY WITH APPLICABLE DASH AND REV LETTER.

1. SHEET 4 OF 4 SIZE C
ASSY DWG

NOTES: UNLESS OTHERWISE SPECIFIED

commodore	TITLE PCB ASSY-BMB	DESIGNED BY <i>ML</i>	DATE 8-20-81	ENGINEER <i>[Signature]</i>	SIZE B	DRAWING NUMBER 3240
		CHECKED <i>RL</i>	DATE 8-16-81	APPROVED <i>[Signature]</i>	SHEET 1	

QUANTITY REQD PER PART / DASH NO.				ITEM	QTY	PART NUMBER	DESCRIPTION	REF DES	BEND	NOTES
				1	BK	324036-01	PCB FABRICATION-BMB			
				2	D	324037-01	SCHEMATIC DIAGRAM-BMB			
				3						
				4	B	901893-01	IC, 6809E, CPU	U4		
				5	B	901435-01	, 6502, CPU	U3		
				6	B	901521-01	, 74LS00, QUAD NAND	U8		
				7	B	901521-02	, 74LS04, HEX INVERTER	U13		
				8	B	901521-03	, 74LS08, QUAD AND	U5		
				9	B	901525-05	, 74S08, QUAD AND	U6		
				10	B	901521-04	, 74LS20, DUAL 4-INPUT NAND	U16		
				11	B	901521-53	, 74LS30, 8-INPUT NAND	U15		
				12	B	901521-49	, 74LS123, DUAL ONE-SHOT	U2,7		
				13	B	901521-16	, 74LS138, 3 TO 8 DECODER	U11,12,14		
				14	B	901521-42	, 74LS273, OCTAL D F-F	U9,10		
				15	B	901894-01	, 4049B, CMOS INVERTER	U1		
				16	B	901524-06	, 1408B, LINE DRIVER	U24		
				17	B	901524-07	, 1489, RECEIVER	U25		
				18	B	901895-01	IC, 6551, ACIA	U23		
				19						
				20	B	901550-38	RESISTOR, CARBON 1/4W 5% 510 Ω	R4		
				21	B	901550-01	1K	R5,6,9		
				22	B	901550-69	1.5K	R3		
				23	B	901550-96	7.5K	R1		
				24	B	901550-20	10K	R2		
				25	B	901550-16	RESISTOR, CARBON 1/4W 5% 150K	R7,8		
				26						
				27	B	900010-48	CAP, CERAMIC 50V/100pF	C2		
				28	B	900010-49	, CERAMIC 50V/200pF	C1		
				29	B	900010-50	, CERAMIC 50V/560pF	C3,4		
				30	B	900010-38	, CERAMIC 50V/.01 μ F	C5,8,12,14,15,16,18,19,22		
				31	B	900402-16	, TANTALUM 35V/2.2 μ F	C6,20,23,24		
				32	B	900101-46	CAP, ELECTROLYTIC 25V/2200 μ F	C9,10,11		
				33						
				34						
				35						
				36						
				37						
TITLE: PCB ASSY - BMB							DRAWN BY: M. J. CHKD: R. J.		DATE: 8-10-81	
commodore							ENGR: APPROV: DATE: 8-24-81		SIZE: B	
									REV: D	
									324038	

commodore

QUANTITY REQD PER PART / DASH NO.		ITEM #	QTY	PART NUMBER	DESCRIPTION	REF DES	BEND	NOTES
		01						
		275		907401-02	WASHER, SHOULDER # 4			
		276	B	906610-03	SCREW, PHLPS 6-32X.375			
		277	B	905970-04	KEP-NUT #6-32			
		78						
		179		320086-02	BUSS, WIRE			SEE NOTE 4
		180		903780-11	KYNAR WIRE 30 AWG			SEE NOTE 4
		81						
		82		904907-01	THERMAL COMPOUND			
		83						
		84						
		85						
		86						
		187	B	901898-01	I.C. ROM 2332	U17		SEE NOTE 5
		188	B	-02		U18		
		189	B	-03		U19		
		190	B	-04		U20		
		191	B	901898-05	I.C. ROM 2332	U22		SEE NOTE 5
		192	B	901897-01	I.C. ROM 2316	U21		SEE NOTE 6
		93						
		94						
		95						
		96						
		97						
		98						
		99						
		100						

commodore

TITLE: PCB ASSY - BMB

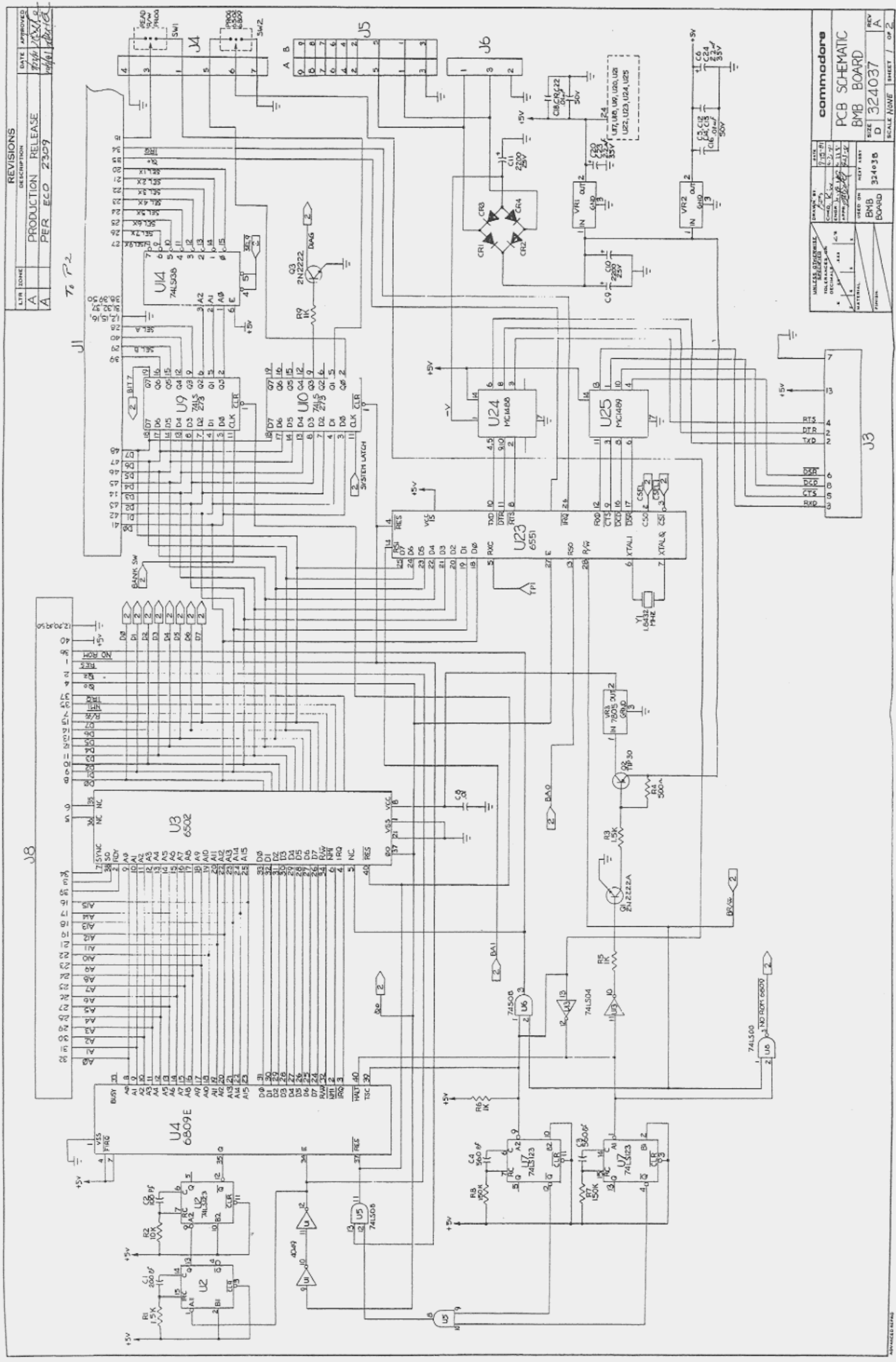
DATE: 10-13-81

ENGR: APPR:

SIZE: B

REV: 324038 D

commodore		TITLE: PCB ASSY - BMB		DRAWN BY: <i>[Signature]</i>		DATE: 10-13-81		ENGR: <i>[Signature]</i>		DATE: <i>[Blank]</i>		SIZE: B		REV: D	
				CHKD: <i>[Signature]</i>				APPR: <i>[Signature]</i>				324038			



REVISIONS		DATE	APPROVED
LTR	ZONE		
A			
DESCRIPTION			
PRODUCTION RELEASE			
PER ECO 2309			

UNLESS OTHERWISE SPECIFIED		DATE	BY
TOLERANCES ON			
DIMENSIONS			
MATERIAL			
FINISH			
DRAWN BY			
CHECKED BY			
APP'D BY			
USED ON			
BOMB			
BOARD			
SIZE			
D			
324035			
REV			
A			
SCALE			
NONE			
SHEET			
1			
OF 2			

COMMODORE	
PCB SCHEMATIC	
BMB BOARD	
D	
324037	
REV	
A	
SCALE	
NONE	
SHEET	
1	
OF 2	

PART NO.	DESCRIPTION	REVISIONS				
		LTR	ZONE	DESCRIPTION	DATE	APPROVED
324042-01	PCB ASSY , COMPU - THINK	A		PRODUCTION RELEASE	8/24/81	add: G
		A		REV PER ECO 2247	9/14/81	add: G
		B		PER ECO 2323	9/24/81	add: G
		C		REV PER ECO 237B	10/2/81	add: G

4 REQUIRED WITH REV A ARTWORK ONLY.

3 ITEM 69 CONNECTS INTO ITEM 63.

2. IDENTIFY WITH COMMODORE PART NO.
AND APPLICABLE REV LETTER.

1. SHEET 4 OF 4 SIZE D
ASSY DWG

NOTES- UNLESS OTHERWISE SPECIFIED:

commodore	TITLE: PCB ASSY, COMPU-THINK	DRAWN BY: M. R. W.	DATE: 8-24-81	ENGR: G. W. W.	APPR: add: G	SIZE: B	DRAWING NUMBER: 324042	SHEET: 1	OF: 5

QUANTITY REQD PER PART / DASH NO.				ITEM	SS	PART NUMBER	DESCRIPTION	REF DES	BEND	NOTES	
				1	D	324041-01	SCHEMATIC, COMPU-THINK				
				2	D	324040-01	PCB FAB, Compu-THINK				
				3							
				4	B	901522-04	IC, 7400, QUAD NAND	U9, 17			
				5	B	901521-21	IC, 74LS02, QUAD NOR	U8, 22			
				6	B	901521-37	IC, 74LS05, HEX INVERTER	U25			
				7	B	901521-03	IC, 74LS08, QUAD AND	U27			
				8	B	901521-24	IC, 74LS10, TRIPLE 3-INPUT NAND	U10, 16, 23			
				9	B	901521-04	IC, 74LS20, DUAL 4-INPUT NAND	U11			
				10	B	901521-08	IC, 74LS107, J-K FLIP-FLOP	U21			
				11	B	901521-49	IC, 74LS123, DUAL ONE-SHOT	U26			
				12	B	901521-50	IC, 74LS132, QUAD NAND w/SCHMITT	U20			
				13	B	901521-11	IC, 74LS157, QUAD 2-1 MULTIPLEXER	U2, 5			
				14	B	901522-23	IC, 74LS157, QUAD 2-1 MULTIPLEXER	U1, 4			
				15	B	901521-51	IC, 74LS241, OCTAL BUFFER	U6, 8, 12, 14			
				16	B	901521-13	IC, 74LS244, OCTAL BUFFER	U13			
				17	B	901521-52	IC, 74LS293, 4 BIT BINARY COUNTER	U7			
				18	B	901521-45	IC, 74LS393, DUAL 4 BIT BINARY COUNTER	U3			
				19	B	901470-07	IC, 4116, DYNAMIC RAM	U29-60			
				20							
				21							
				22		901527-03	VOLTAGE REGULATOR, -5 VOLT	U61			
				23		901527-01	VOLTAGE REGULATOR, +12 VOLT	U19			
				24		901527-02	VOLTAGE REGULATOR, +5 VOLT	U24			
				25		900752-02	DIODE, FAST RECTIFIER	CR3			
				26		900653-01	DIODE, BRIDGE	CR1, 2			
				27							
				28	B	900050-18	CAP, DIPPED MICA, 22 pf, 500V	C79			
				29		-19	50pf,	C81			
				30		-20	62 pf	C76			
				31		-21	82 pf	C78			
				32		-22	100 pf	C80			
				33	B	900050-23	CAP, DIPPED MICA, 180 pf, 500V	C77			
				34	B	900020-01	CAP, MONO, CERAMIC, .1uf, 50V	CI-63			
				35	B	900402-15	CAP, DIPPED TANT, 10uf, 25V	C65, 67, 73, 74, 75, 82			
				36	B	900100-44	CAP, ELECT, RADIAL, 470 uf, 16V	C68, 69, 72			
				37	B	900100-49	CAP, ELECT, RADIAL, 470 uf, 25V	C66			
commodore				TITLE: PCB ASSY, COMPU/THINK				DATE: 8-2-81		ENGINEER: J. J. J. J.	DATE: 8-2-81
								DATE: 8-2-81		ENGINEER: J. J. J. J.	DATE: 8-2-81
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								DATE: 8-2-81		ENGINEER:	

QUANTITY RECD PER PART / DASH NO.		3	8	PART NUMBER	DESCRIPTION	REF DES	BEND	NOTES
	01							
2	38	B	900100-07	CAP, ELECT, RADIAL, 1000nF, 16V	C70, 71			
	39							
	40							
2	41	B	902422-03	RESISTOR, NETWORK, 8 PIN SIP, 33Ω	RP1, 3			
1	42	B	902442-26	8 PIN SIP, 2K	RP9			
1	43	B	902441-29	6 PIN SIP, 3.3K	RP7			
4	44	B	902442-29	8 PIN SIP, 3.3K	RP2, 4, 6, 8			
1	45	B	902420-48	RESISTOR, NETWORK, 16 PIN DIP, 2K	RP5			
2	46	B	901550-105	RESISTOR, CARBON, 1/4W, 5%, 33Ω	R5, 6			
1	47	B	901550-02	RESISTOR, CARBON, 1/4W, 5%, 3.3K	R1			
3	48	B	901550-20	RESISTOR, CARBON, 1/4W, 5%, 10K	R2, 3, 4			
	49							
	50							
1	51	B	903316-03	HEADER ASSY, 156 CENTERS	PI		3 PIN	
1	52	B	903345-25	HEADER ASSY, DUAL ROW, 100 CENTER	P2, 50 PIN			
1	53	B	903446-01	CONNECTOR HOUSING, 50 PIN	P3			
	54							
2	55	B	903549-12	FUSE, AXIAL LEAD	3A	FI, 2		
	56							
1	57	B	902905-01	HEATSINK, TO-220	XU61			
2	58	B	902911-01	HEATSINK	XU19, 24			
1	59	B	902912-01	HEATSINK	XU19, 24			
	60							
2	61	B	907401-02	WASHER, SHOULDER	#4	XU61		
14	62	B	904150-01	IC SOCKET	14 PIN	XU3, 7, 9, 11, 16-18, 20-23, 25, 27		
39	63	B	904150-02	IC SOCKET	16 PIN	XU1, 2, 4, 5, 26, 29-36, 37-44, 45-52, 53-60, 64, XRP5		
5	64	B	904149-04	IC SOCKET	20 PIN	XU6, 8, 12-14		
	65							
	66							
13	67	B	320086-02	BUS WIRE	J1, 2, 4, 5, U15			
	68							
1	69	B	324056-01	PCB ASSY, MEMORY PROTECT			SEE NOTE 3	
	70							
	71							
3	72		906600-06	SCREW, PHILLIPS, 4-40 x .438				
3	73		905970-05	KEP NUT 4-40				
	74							

commodore

TITLE: PBC ASSY, COMPU/THINK

DATE: 8-6-81
CHKD: J. J. J.

SIZE: B

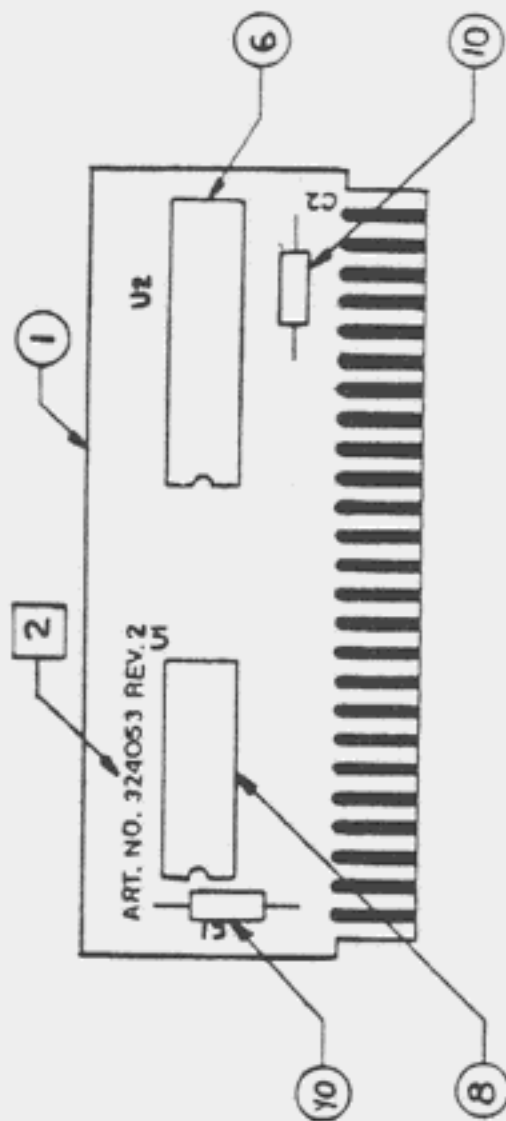
REV: C

324042

SHEET: 5

[illegible]

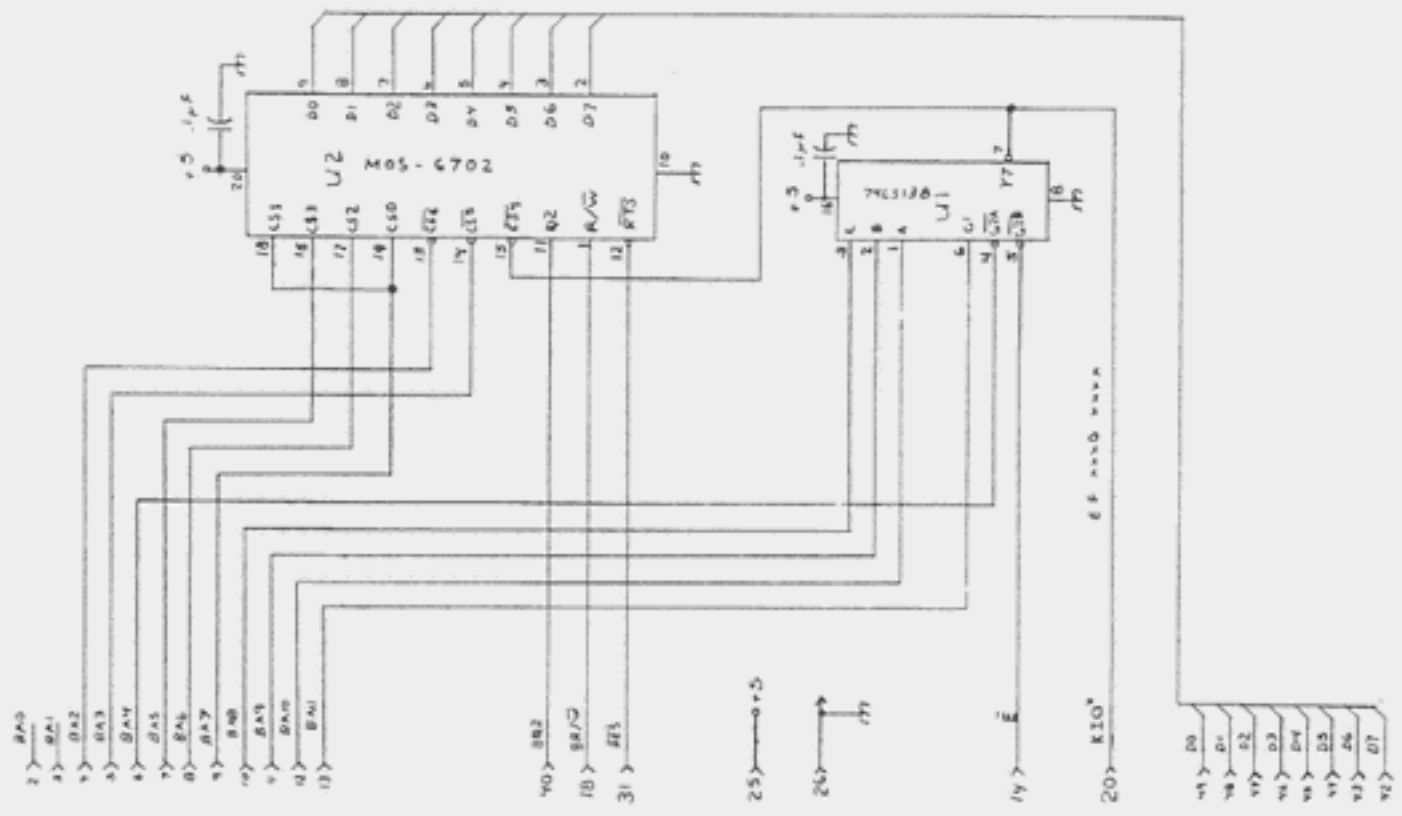
PART NO.	DESCRIPTION	REVISIONS		
		LTR	ZONE	DESCRIPTION
324056-01	PCB ASSY , MEMORY PROTECT	A		PRODUCTION RELEASE
		B		REV PER ECO 2302
			DATE	APPROVED
			8-24-81	<i>[Signature]</i>
			8/9/81	<i>[Signature]</i>



QUANTITY REQD PER PART / DASH NO.		QTY	QTY	QTY	PART NUMBER	DESCRIPTION	REF DES
	01						
1	1	B			324054-01	PCB FAB , MEMORY PROTECT	
	2						
	3	C			324055-01	LOGIC DIAGRAM, MEMORY PROTECT	
	4						
	5						
1	6	B			901889-01	I.C. 6702	U2
	7						
1	8	B			901521-16	I.C. 74LS138	U1
	9						
2	10	B			900461-28	CAP, CERAMIC AXIAL, .1uF, 50V	C1, 2
	11						

DRAWN BY: R W		DATE: 8-25-81
CHKD: <i>[Signature]</i>	DATE: 8-26-81	
ENGR: <i>[Signature]</i>	DATE: 8-27-81	
APPR:		
USED ON SUPER PET	NEXT ASSY 324042	
commodore		
PCB ASSY MEMORY PROTECT		
SIZE B	324056	REV B
SCALE 2/1	SHEET 1	OF 1

REVISIONS			DATE	APPROVED
LTR	ZONE	DESCRIPTION		
A		PRODUCTION RELEASE	9/18/92	[Signature]



-01 SHOWN

UNLESS OTHERWISE SPECIFIED		DRAWN BY	DATE
TOLERANCES ON DECIMALS		R. W.	8/28/81
		CHKD BY	8/28/81
		ENGR BY	8/28/81
		APPD BY	8/28/81
		USED ON	HEAT ASSEMBLY
		DATE	324056
		PET	
		FINISH	
		SCALE	NONE
		SHEET	1 OF 1

commodore

LOGIC DIAGRAM

SIZE	REV
C	A
324055	

[illegible]

QUANTITY REQD PER PART / DASH NO.		ITER	S	PART NUMBER	DESCRIPTION	QTY	NOTES
		38		901527-02	7805 VOLTAGE REGULATOR +5V		VR1 VR2
		39					
		40					
		41		902847-03	2N2222, TRANSISTOR NPN		Q1, Q2, Q4, Q5
		42		902704-01	2N4403, TRANSISTOR PNP		Q3
		43					
		44		901550-105	RESISTOR, CARBON 1/4W 5% 33Ω		R8-R17
		45		901550-38	↑ 510Ω		R7
		46		901550-31	↑ 680Ω		R21
		47		901550-01	↑ 1KΩ		R4, R22
		48		901550-32	↑ 1.3KΩ		R19, R20
		49		901550-69	↑ 1.5KΩ		R6
		50		901550-02	↑ 3.3KΩ		R18, R24, R1, R5
		51		901550-12	↑ 22KΩ		R23, R2, R3
		52		901550-94	RESISTOR, CARBON 1/4W 5% 68Ω		R25, R26
		53					
		54					
		55		900461-16	CAP, CERAMIC 50V/.01μF		C6-C41, C1-C3
		56					
		57					
		58		900109-01	CAP, ELECT. 25V/4.7μF		C4, C5
		59					
		60					
		61		904150-04	IC SOCKET, 24 PIN		XU45, U46, U49
		62		904150-06	IC SOCKET, 40 PIN		XU13, U17
		63		904150-08	IC SOCKET, 20 PIN		XU41
		64		900555-02	CRYSTAL, 1.8432 MHz		Y1
		65					
		66		903345-20	HEADER ASSY, DUAL ROW .100 CENTERS 40 PIN		J1
		67		903326-07	HEADER ASSY, 100 CENTERS 7 PIN		J2
		68		903326-01	HEADER ASSY, 1 PIN		J3
		69		903266-01	CONNECTOR RIGHT ANGLE RS-232		J4
		70		903327-07	HEADER ASSY .100 CENTER 7 PIN		J5 REMOVE PIN 3 & 4 AT ASS
		71					
		72		903025-01	FERRITE BEAD		FBI
		73		902913-01	HEATSINK		
		74					

commodore

TITLE: PCB ASSY S.P. COMBO

REV H 3/4

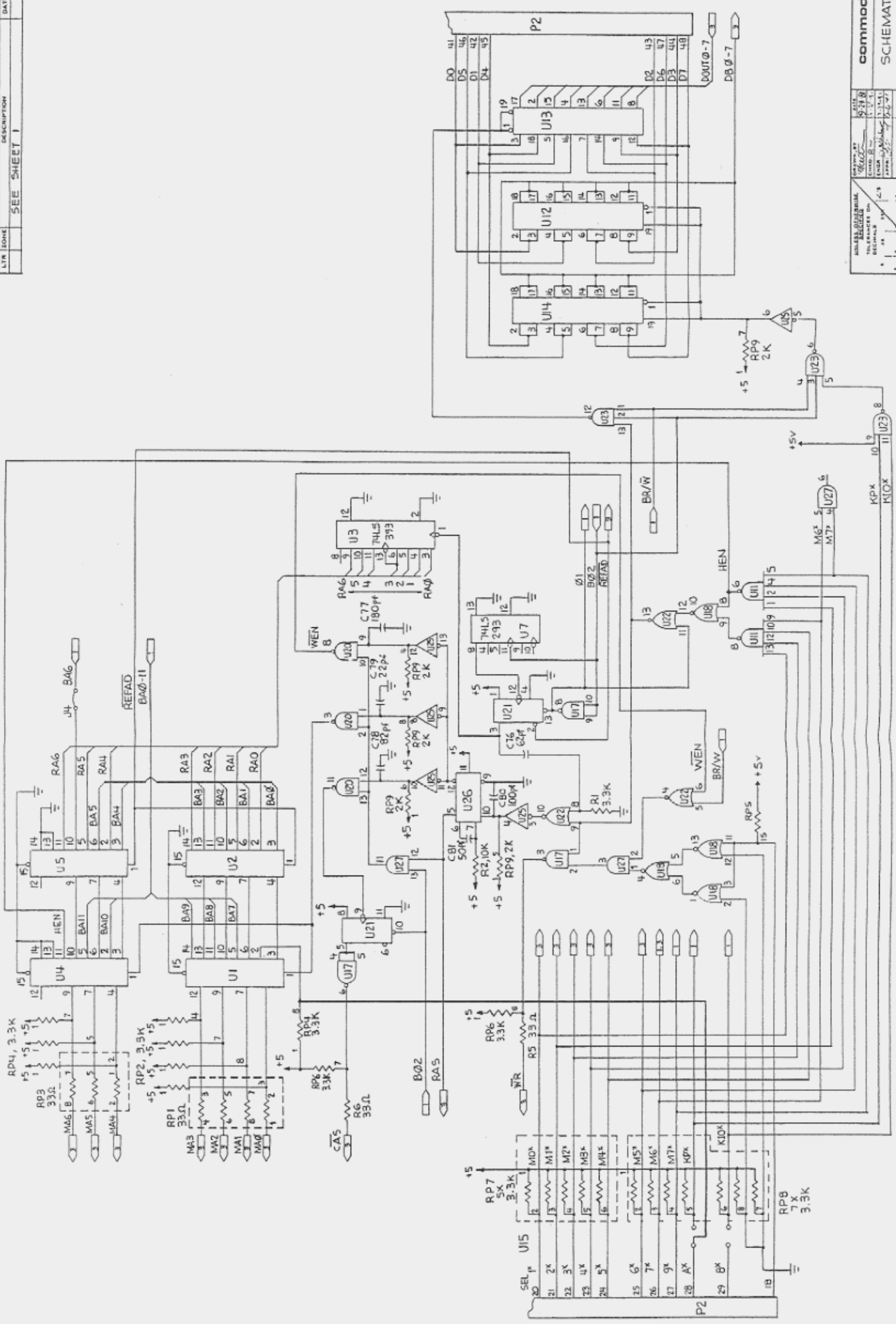
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SIZE

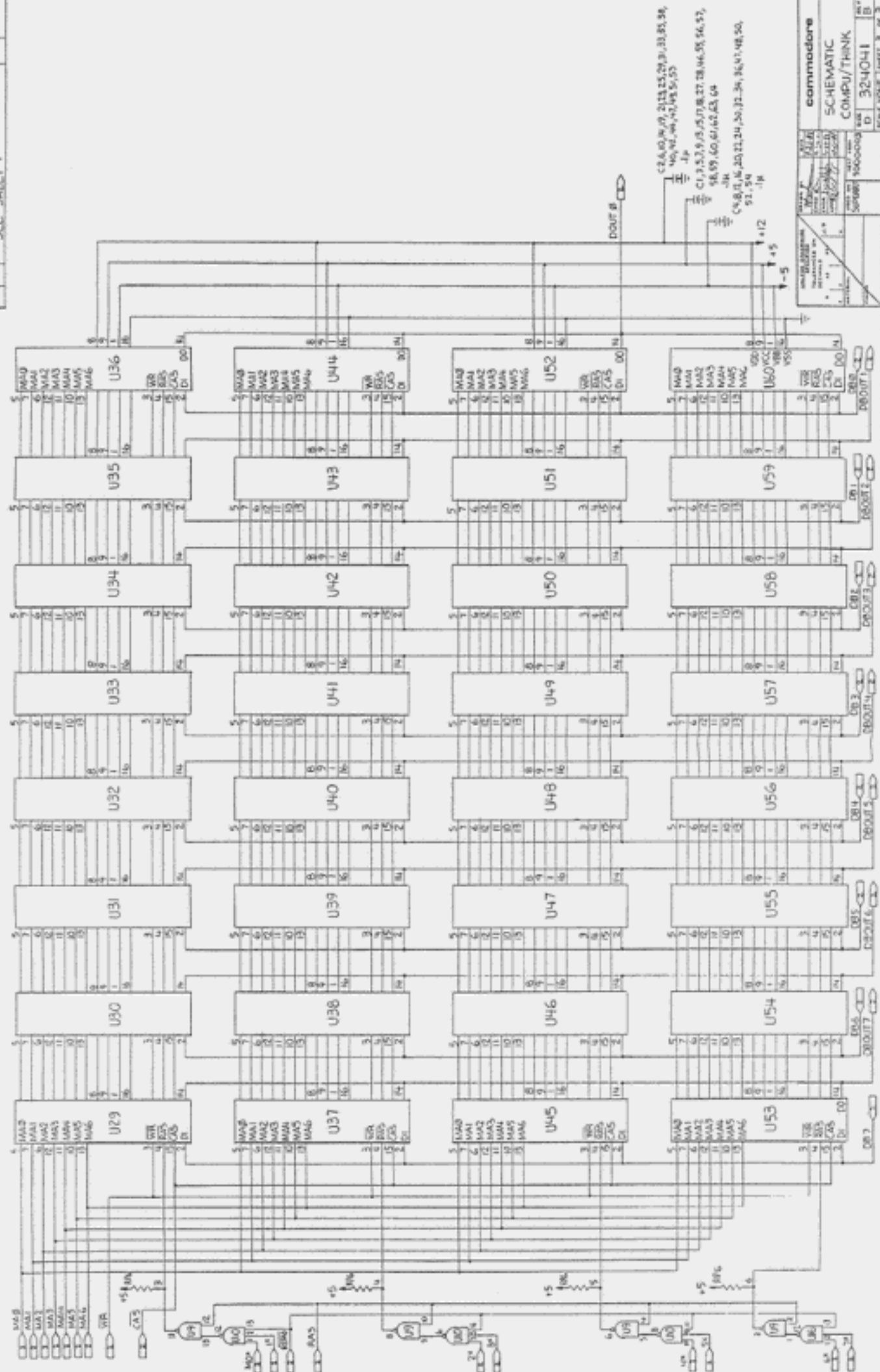
DATE 3/8/81

ENGR: R. J. Lout

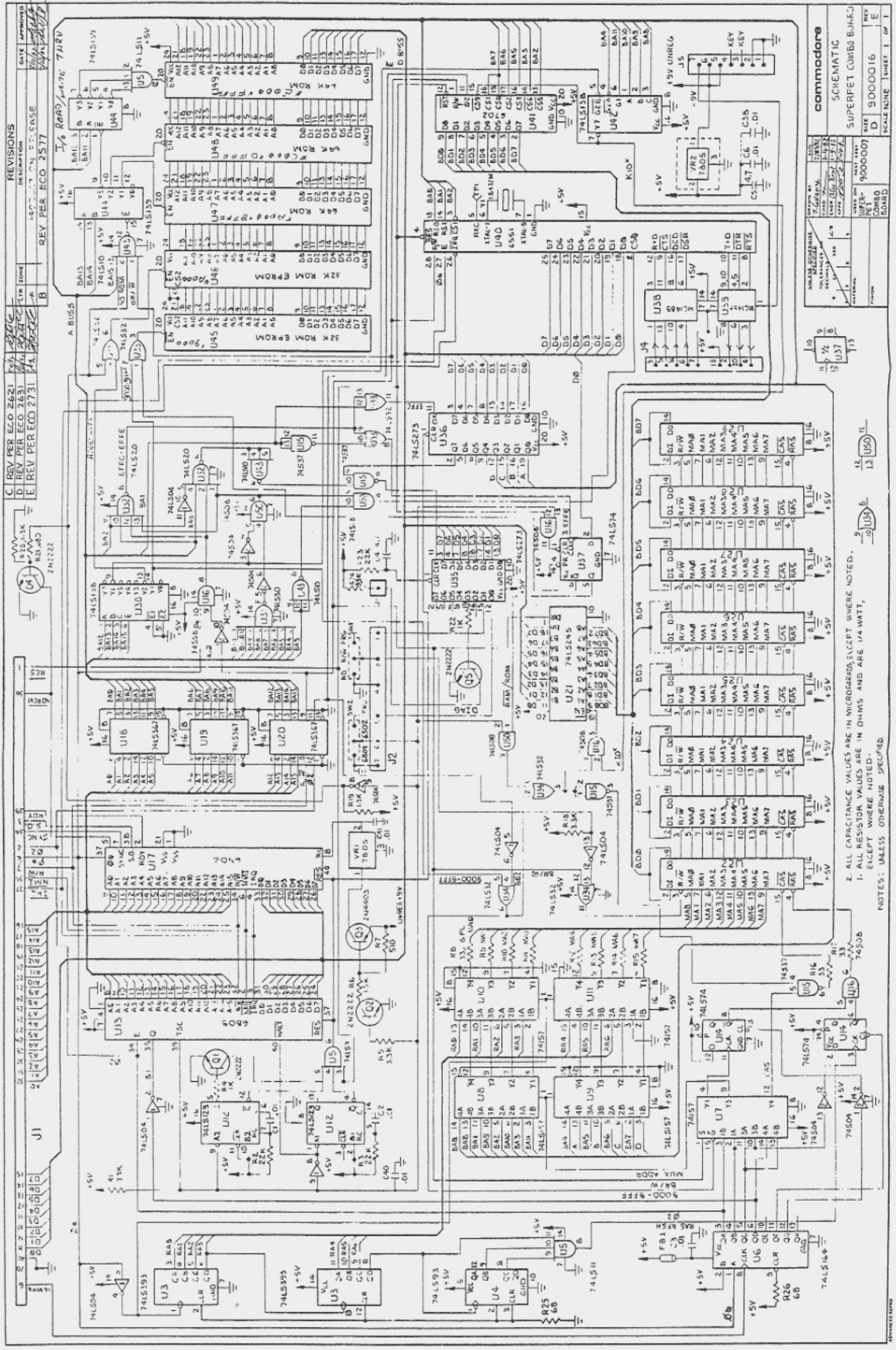
CHKD: J. J. APPR:



COMMODORE		DATE	APPROVED
SCHEMATIC		DATE	APPROVED
COMPU-THINK		DATE	APPROVED
SIZE	0	324041	B
REV	0	324041	B
SCALE 1/2" = 1"		SHEET 2 OF 3	



MODEL NUMBER 324041		SERIAL NUMBER 1500009	
DATE 12/17/00		TIME 10:00	
NAME J. L. ...		TITLE ...	
COMPANY ...		ADDRESS ...	
CITY ...		STATE ...	
ZIP ...		PHONE ...	
FAX ...		E-MAIL ...	
COMMENTS ...		SIGNATURE ...	
DATE ...		TIME ...	
NAME ...		TITLE ...	
COMPANY ...		ADDRESS ...	
CITY ...		STATE ...	
ZIP ...		PHONE ...	
FAX ...		E-MAIL ...	
COMMENTS ...		SIGNATURE ...	
DATE ...		TIME ...	
NAME ...		TITLE ...	
COMPANY ...		ADDRESS ...	
CITY ...		STATE ...	
ZIP ...		PHONE ...	
FAX ...		E-MAIL ...	
COMMENTS ...		SIGNATURE ...	
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NAME ...		TITLE ...	
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CITY ...		STATE ...	
ZIP ...		PHONE ...	
FAX ...		E-MAIL ...	
COMMENTS ...		SIGNATURE ...	
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COMPANY ...		ADDRESS ...	
CITY ...		STATE ...	
ZIP ...		PHONE ...	
FAX ...		E-MAIL ...	
COMMENTS ...		SIGNATURE ...	
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ZIP ...		PHONE ...	
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ZIP ...		PHONE ...	
FAX ...		E-MAIL ...	
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NAME ...		TITLE ...	
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CITY ...		STATE ...	
ZIP ...		PHONE ...	
FAX ...		E-MAIL ...	
COMMENTS ...		SIGNATURE ...	
DATE ...		TIME ...	
NAME ...		TITLE ...	
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CITY ...		STATE ...	
ZIP ...		PHONE ...	
FAX ...		E-MAIL ...	
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CITY ...		STATE ...	
ZIP ...		PHONE ...	
FAX ...		E-MAIL ...	
COMMENTS ...		SIGNATURE ...	
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CITY ...		STATE ...	
ZIP ...		PHONE ...	
FAX ...		E-MAIL ...	
COMMENTS ...		SIGNATURE ...	
DATE ...		TIME ...	
NAME ...		TITLE ...	
COMPANY ...		ADDRESS ...	
CITY ...		STATE ...	
ZIP ...			



REV	PER	ECO	2621	2631	2731	2577	DATE	APPROVED
C	REV	PER	ECO	2621	2631	2731	2577	
D	REV	PER	ECO	2621	2631	2731	2577	
E	REV	PER	ECO	2621	2631	2731	2577	

COMMODORE
SUPERPET COMBO BOARD
SCHEMATIC
REV D 9000016
SCALE NONE 1 OF 1

2. ALL CAPACITANCE VALUES ARE IN MICROFARADS, EXCEPT WHERE NOTED.
1. ALL RESISTOR VALUES ARE IN OHMS AND ARE 1/4 WATT, EXCEPT WHERE NOTED.
NOTES: UNLESS OTHERWISE SPECIFIED.

PART NO.	DESCRIPTION
8032090-01	UNIV. DYNAMIC PET 8032-60HZ
-03	4032-60HZ (12")
-05	4016-60HZ
-07	UNIV. SUPER PET 9000 - 60 HZ
-09	UNIV. SUPERPET, COMBO-BRO 9000 - 60 HZ
8032090-11	UNIV. DYNAMIC PET, 4032-9" - 60 HZ

9 REWORK INSTRUCTIONS FOR FCC: JUMPER WIRE FROM UD3 PIN 1 TO UB14 PIN 35. USE 22 AWG (IT.108). THIS CONFIGURATION IS FOR -09 & -10 ONLY.

8 UD11&12 NOT FOR -07, -08, -09 & -10

7 IDENTIFY WITH APPLICABLE DASH NO.

6 SOLDER TO XTAL AND PCB.

5 FOR ITEMS 118 & 119, ALL ASSEMBLIES MUST HAVE SAME VENDOR.

4 SOLDER JUMPER, ITEM 106 FROM E1 TO SILVER CONTACT ON MT1, ITEM 73; TAKE CARE TO ALLOW NO MORE THAN ONE SECOND DURATION FOR APPLICATION OF HEAT DURING SOLDERING.

REVISIONS

LTR	ZONE	DESCRIPTION	DATE	APPROVED
A		PRODUCTION RELEASE	6/23/81	11/2/81
B		REV PER ECO 2157	7/14/81	11/2/81
C		REV PER ECO 2172	8/6/81	20/2/81
D		REV PER ECO 2237	9/13/81	20/2/81
D		REV PER ECO 2308	9/28/81	20/2/81
E		REV PER ECO 2368	10/1/81	20/2/81
E		PER ECO 2414	10/1/81	20/2/81
F		REV PER ECO 2565 & 2555	11/12/81	20/2/81
G		REVISED PER ECO 2887		
H		REVISED PER ECO 3027		

11 CUT PINS 9 & 10 AT UE7.
CONNECT PIN 9 TO GND.

10 CONNECT ITEM 43 FROM PIN 15 OF UA19 TO VCC (+5V).

4 REFER TO PART SUBSTITUTION INDEX, P/N 321233.

3 SOLDER AT 3 PLACES, EQUALLY SPACED AROUND THE BRASS BASE MT1 (ITEM 73)

2 IDENTIFY WITH APPLICABLE DASH NO.

1. SHEET 6 OF 7 SIZE C, SHEET 7 OF 7 SIZE D.

NOTES: UNLESS OTHERWISE SPECIFIED:

commodore	TITLE: PCB ASSY - UNIV. DYNAMIC PET
-----------	-------------------------------------

DRAWN BY C. J. R. / 11/1/81	DATE 7-11-81	ENGR APPR. / 11/1/81	SIZE B	DRAWING NUMBER 8032090
	6-17-81		SHEET	OF 7

QUANTITY RECD PER PART / DASH NO.										ITEM	PART NUMBER	DESCRIPTION	REF DES	QTY	NOTES
11	10	09	08	07	06	05	04	03	02						
1	1	1	1	1	1	1	1	1	1	1	D 8032088-01	FABRICATION-UNIV. DYNAMIC PET			
2	2	2	2	2	2	2	2	2	2	2	D 8032087-01	LOGIC DIAGRAM-UNIV. DYNAMIC PET			
3	3	3	3	3	3	3	3	3	3	3	B 901640-01	IC 2332	UA3		
4	4	4	4	4	4	4	4	4	4	4	B 901521-01	74LS00	UD5,UE5,UE11		
5	5	5	5	5	5	5	5	5	5	5	B 901521-24	74LS10	UD4,UE7,UE13		
6	6	6	6	6	6	6	6	6	6	6	B 901522-20	7425	UE14		
7	7	7	7	7	7	7	7	7	7	7	B 901521-02	74LS04	UE15		
8	8	8	8	8	8	8	8	8	8	8	B 901523-01	LM555	UD16		
9	9	9	9	9	9	9	9	9	9	9	B 901522-01	7417	UD15		
10	10	10	10	10	10	10	10	10	10	10	B 901435-01	6502	UB14		
11	11	11	11	11	11	11	11	11	11	11	B 901479-01	CRT CONTRROLLER	UB13		
12	12	12	12	12	12	12	12	12	12	12	B 901522-13	74154	UE12		
13	13	13	13	13	13	13	13	13	13	13	B 901436-01	6520	UB12,UB16		
14	14	14	14	14	14	14	14	14	14	14	B 901524-01	MC3446	UA20,UB17,UC12		
15	15	15	15	15	15	15	15	15	15	15	B 901437-01	6522	UB15		
16	16	16	16	16	16	16	16	16	16	16	B 901521-09	74LS145	UC11		
17	17	17	17	17	17	17	17	17	17	17	B 901521-45	74LS393	UD3,UE6		
18	18	18	18	18	18	18	18	18	18	18	B 901521-21	74LS02	UD1		
19	19	19	19	19	19	19	19	19	19	19	B 901525-09	74574	UC1,UE1		
20	20	20	20	20	20	20	20	20	20	20	B 901525-01	74504	UD2,UE4		
21	21	21	21	21	21	21	21	21	21	21	B 901521-06	74LS74	UB2,UB1		
22	22	22	22	22	22	22	22	22	22	22	B 901522-28	74166	UA2		
23	23	23	23	23	23	23	23	23	23	23	B 901447-10	2316	UA3		
24	24	24	24	24	24	24	24	24	24	24	B 901521-32	74LS86	UC2	SEE NOTE 4	
25	25	25	25	25	25	25	25	25	25	25	B 901521-28	74LS164	UE3	SEE NOTE 4	
26	26	26	26	26	26	26	26	26	26	26	B 901521-16	74LS138	UC3		
27	27	27	27	27	27	27	27	27	27	27	B 901521-11	74LS157	UC8-UC10,UE2	SEE NOTE 4	
28	28	28	28	28	28	28	28	28	28	28					
29	29	29	29	29	29	29	29	29	29	29					
30	30	30	30	30	30	30	30	30	30	30	B 901465-22	2332	UD6		
31	31	31	31	31	31	31	31	31	31	31	B 901465-21	2332	UD8		
32	32	32	32	32	32	32	32	32	32	32	B 901465-20	2332	UD9		
33	33	33	33	33	33	33	33	33	33	33	B 901465-23	2332	UD10		
34	34	34	34	34	34	34	34	34	34	34					
35	35	35	35	35	35	35	35	35	35	35	B 901522-04	IC 7400	UF1		
36	36	36	36	36	36	36	36	36	36	36	B 900110-07	CAP, LOW LEAK. ELECT. 1uF 50V	C10		
37	37	37	37	37	37	37	37	37	37	37	B 900461-28	CAP, CERAMIC AXIAL .1uF 50V	C12-15,18,20-22,25-28,30-50,53,55-59,62-72,75,81,84,90,95,96		
TITLE: PCB ASSY-UNIV. DYNAMIC PET											DRAWN BY: <i>[Signature]</i> DATE: 3-11-81				
commodore											CHKD: <i>[Signature]</i> DATE: 6-1-81				
											ENGR: <i>[Signature]</i>				
											APPR: <i>[Signature]</i>				
											REV: H				
											SIZE: B				
											8032090				
											SHT: 27				

QUANTITY REQD PER PART / DASH NO.										3	8	PART NUMBER	DESCRIPTION	REF DES	QTY	NOTES	
11	10	09	08	07	06	05	04	03	02-01								
										338	B	900461-16	CAP, CERAMIC AXIAL .01uF 50V	C52, 60, 61			
										239	B	900461-20	CERAMIC AXIAL .022uF 50V	C3, 4			
										140	B	900100-45	ELECTROLYTIC 4700uF 25V	C5			
										141	B	900100-44	ELECTROLYTIC 470uF 16V	C2			
										542	B	900109-03	LOW LEAK. ELECT. 10uF 25V	C1, 16, 17, 23, 24	SEE NOTE 4		
										149	B	900050-21	DIPPED MICA, RADIAL, 82pF, 500V	C97	SEE NOTE 10		
										244	B	900402-13	TANTALUM 1uF 35V	C6, 51			
										245	B	900101-37	ELECTROLYTIC 47uF 16V	C7, 11			
										146	B	900465-08	CERAMIC AXIAL 820pF	C92			
										147	B	900462-29	CAP, CERAMIC AXIAL 47pF	C74-C86, C88			
										48							
										249	B	901550-84	RES, CARBON 1/4W 5%	IM R24, 25			
										350	B	901550-58	470u	R13, 16, 17			
										451	B	901550-94	68u	R10, 11, 46, 49			
										252	B	901550-03	5.1M	R19, 21			
										253	B	901550-85	2.4K	R18, 20			
										154	B	901550-64	10u	RB			
										255	B	901550-20	10K	R23, 27			
										256	B	901550-69	1.5K	P47, 48			
										257	B	901550-49	100u	R12, 18, 20			
										158	B	901550-14	4.7K	R51			
										159	B	901550-18	2.2K	R53			
										260	B	901550-56	47u	R50, 52			
										61	B						
										62	B						
										63	B						
										164	B	901550-93	39u	R7			
										165	B	901550-01	1K	R1-6, 12, 15, 22, 26, 28, 39, 42, 45			
										166	B	901550-02	3.3K	R14			
										167	B	902419-66	RES, NETWORK, DIP 14PIN	10u	UB11		
										68							
										269	B	902453-01	TRANSISTOR, TIP 29	Q1, Q2			
										170	B	902550-01	TRANSISTOR, PACK Q2T-222	Q2, 16			
										71							
										72							
										173	B	907300-02	TRANSDUCER, PIEZO ACOUSTIC	MT1			
										74							
MMF.																	
PCB ASSY-LINIV. DYNAMIC PET																	
commodore																	
REV 11 8032090 B SIZE B 3/7																	

QUANTITY REQD PER PART / DASH NO.										QTY	PART NUMBER	DESCRIPTION	REF DES	BOM	NOTES
11	10	09	08	07	06	05	04	03	02						
										75					
											376	B	900750-05	DIODE, IN4005	CR1,5,7
											277	B	900757-01	BRIDGE	4A/50V
											178	B	900753-01	IN5402	3A/200V
											79				SEE NOTE 4
											80				
											281	B	900941-01	DIODE, ZENER	7.5V
											82				VR5,6
											183	B	901527-03	VOLTAGE REGULATOR, 7905, -5V/1.5A	VR1
											84				TO-220
											185	B	901528-04	VOLTAGE REGULATOR, 7812, +12V/1A	VR2
											186	B	901528-01	VOLTAGE REGULATOR, LM323	VR4
											87				TO-3
											188	B	900556-02	CRYSTAL 16MHZ	Y1
											89				
											190	B	903326-07	HEADER ASSY .100 CENTER	J10
											291	B	903345-25	HEADER ASSY, DUAL ROW, 100 CENTER	J4,9
											192	B	903316-09	HEADER ASSY .156 CENTER	J8
											193	B	903331-07	HEADER ASSY, POLARIZED, 100 CENTER	J11
											194	B	903331-07	HEADER ASSY, POLARIZED, 100 CENTER	J7
											195	B	903331-20	HEADER ASSY, POLARIZED, 100 CENTER	J5
											96				7 PIN; REMOVE PIN 3 AT ASSEMBLY
											497	B	904150-04	SOCKET, 1C LOW PROFILE 24 PIN	U43, U47, U41, U42
											198	B	904150-06	SOCKET, 1C LOW PROFILE 40 PIN	U44
											199	B	904150-01	SOCKET, 1C LOW PROFILE 14 PIN	U41
											200	B	901151-17	COIL, INDUCTOR 2.2mh	L1, L2
											101	B	320086-02	BUS WIRE	
											102				
											403	B	906403-19	PIVET, DOME HEAD, OPEN END	
											204	B	906404-04	PIVET, DOME HEAD, CLOSED END	
											105				
											106	B	903780-01	#30 WIRE WRAP WIRE, RED	
											207	B	903781-01	22 AWG BARE WIRE ON TAPE, REEL	
											108	B	903755-03	WIRE, INSULATED, 22 AWG, 12.5 LG	
											109	B	320268-01	HEAT SINK	
											210	B	904907-01	HEAT SINK, COMPOUND THERMAL	
											111				

commodore

TITLE: PCB ASSY - UNIV. DYNAMIC PET

DATE: 3-11-61
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 APPR: [Signature]

DATE: 6-11-61

SIZE: B

REV: H 8032090

SHEET: 4/7

[illegible]

PART NO.	DESCRIPTION	REVISIONS		
		LTR	ZONE	DATE
8032051-01	POWER SUPPLY ASSY, 8032 117V UL	A		PRODUCTION RELEASE
		B		REV PER ECO 1935
		C		REV PER ECO 2028
		D		REV PER ECO 2284
		E		REV. PER ECO 2777

- ☒ 6 REFER TO PART SUBSTITUTE INDEX
P/N 321233.
☒ 5 SWITCH SHOWN IN "OFF" POSITION.
 4. ALL LEADS WILL HAVE A MINIMUM OF
ONE WRAP AROUND TERMINALS PRIOR
TO SOLDERING.
☒ 3 IDENTIFY WITH COMMODORE PART
NO. 8032051 AND APPLICABLE DASH
NO. LOCATE APPROX AS SHOWN.
☒ 2 DASH 04 CONFIGURATION SHALL BE
USED FOR VDE, SEV 4 SEMKO.

1. SHEET 3 OF 3 SIZE D

ASSY DWG

NOTES - UNLESS OTHERWISE SPECIFIED:

commodore TITLE POWER SUPPLY ASSY, 8032

DESIGNED BY CHRISTENSEN	DATE 4/22/80	CHKD APPR.	SHEET B	DRAWING NUMBER 8032051
APP'D FOR MAT J.P. CARR, JR.	DATE 5-13-80			SHEET OF 3

QUANTITY REQUIRED PER
PART / DASH NO.

3		8	PART NUMBER	DESCRIPTION	REF DES	RENO	NOTES
01	1						
	2	D	8032043-02	CHASSIS POWER, UNIVERSAL			
	3	C	320902-01	TRANSFORMER	T1		SEE NOTE ☒ FOR SUBSTITUTE
	4						
	6	B	900102-01	CAPACITOR 23,000 MFD	C1		
	8						
	9	B	903467-03	FILTER POWER CONNECTOR			
	11						
	12						
	13						
	14	B	320289-01	DYNAMIC PET POWER HARNESS			
	15						
	16	B	903557-04	FUSE, 125V SLO-BLO 1.6A	F1		
	18						
	19						
	20	B	903611-03	FUSE HOLDER	XF1		FOR SUBSTITUTE SEE NOTE ☒
	21	B	904507-01	SWITCH, ROCKER	SW1		
	22						
	23						
	24						
	25	B	320479-02	TUBE, SHRINKABLE			
	26	B	320478-01	TUBE, SHRINKABLE			
	27	B	320059-01	LEAD WIRE (BLACK)			
	28						
	30	B	903612-02	FUSE CARRIER			FOR SUBSTITUTE SEE NOTE ☒
	31	B	906630-03	SCREW, PAN HEAD, #10-32 x .250 LG			
	32	B	905650-03	WASHER, LOCK, INT TOOTH #10			
	33						
	34	C	320925-05	GROUND CABLE ASSY			
	35	B	906600-06	SCREW, PAN HEAD #4-40 x .438 LG			
	36	B	905970-05	NUT KEPS #4-40			
	37						

commodore

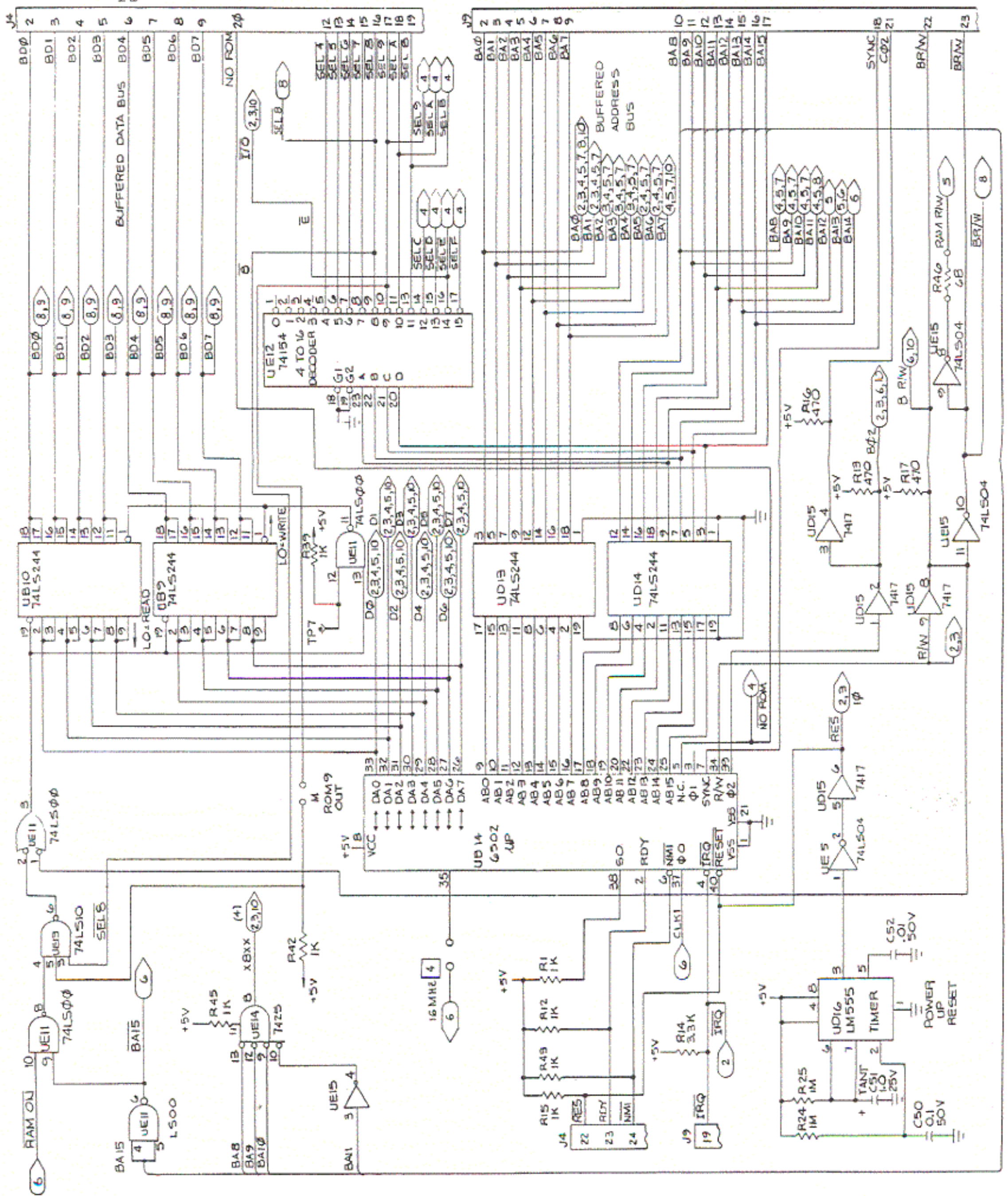
TITLE: POWER SUPPLY ASSY, 8032

DATE: 4/22/80
DRAWN BY: K. CHRISTENSEN
CHECKED BY: N.P.

DATE: 6-19-80
SIZE: B
REV: E
QNTY: 23

REV	DATE	DESCRIPTION	APPROVED
A	5/1/79	PRODUCTION RELEASE	
B	REV PER ECO 2573		
C	REV PER ECO 2617		

MEMORY EXPANSION

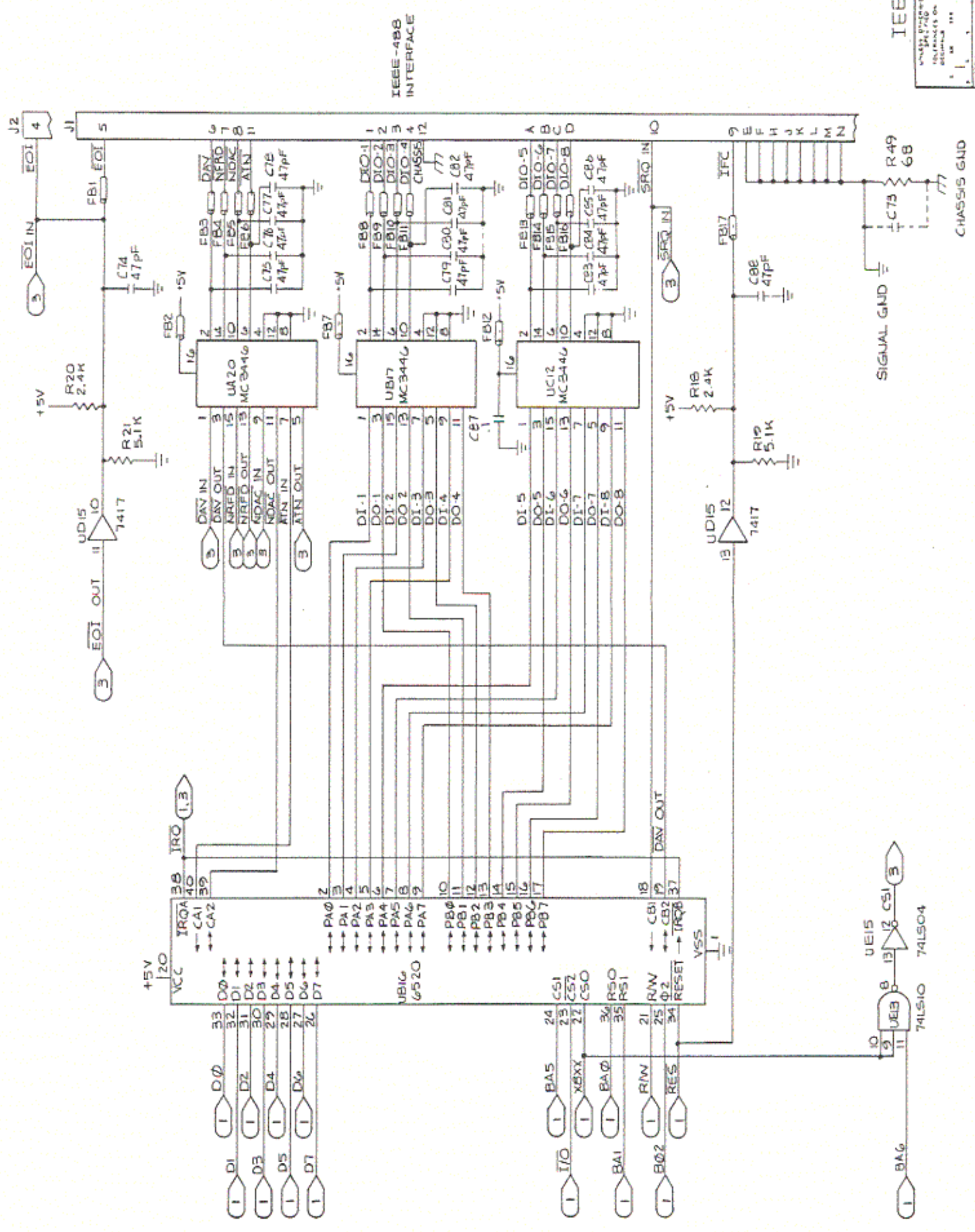


MEMORY EXPANSION

1. JUMPER FOR SUPERPET CONFIGURATION ONLY.
 2. ALL CAPACITOR VALUES ARE MEASURED IN MICROFARADS.
 3. ALL RESISTOR VALUES ARE IN OHMS ±5% AND ARE 1/4 WATT.
 4. REFER TO ASSEMBLY DRAWING NUMBER 8032090.
- NOTES-UNLESS OTHERWISE SPECIFIED

CPU & MEMORY EXPANSION

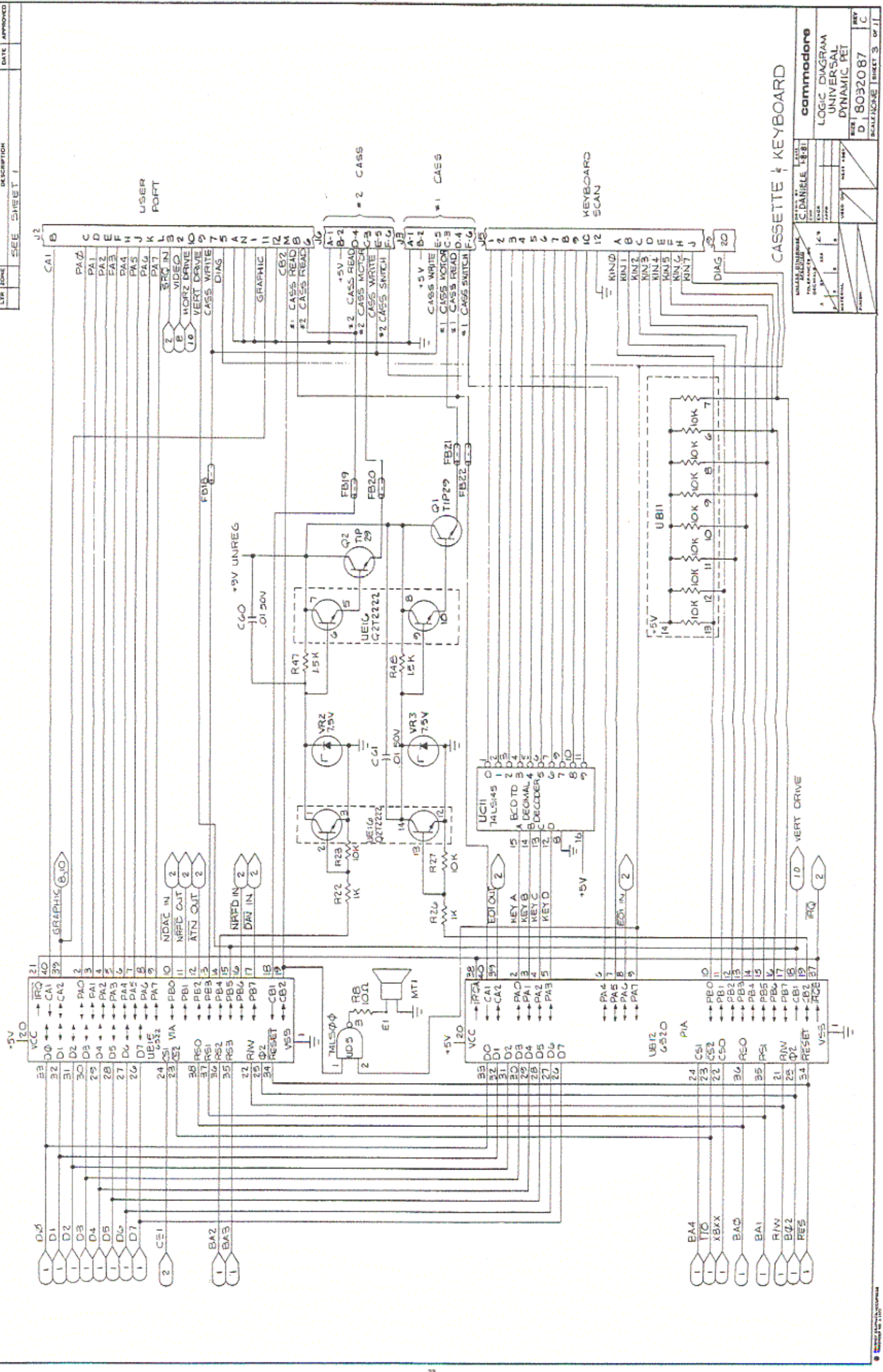
DESIGNED BY	C. DANIELE	DATE	5/1/79
CHECKED BY		DATE	
APPROVED BY		DATE	
PROJECT	8032	8032090	
SCALE	1:1		
SHEET	1	OF	1
REV	2	8032087	
LOGIC DIAGRAM	UNIVERSAL		
DYNAMIC PET			



IEEE-488
 INTERFACE

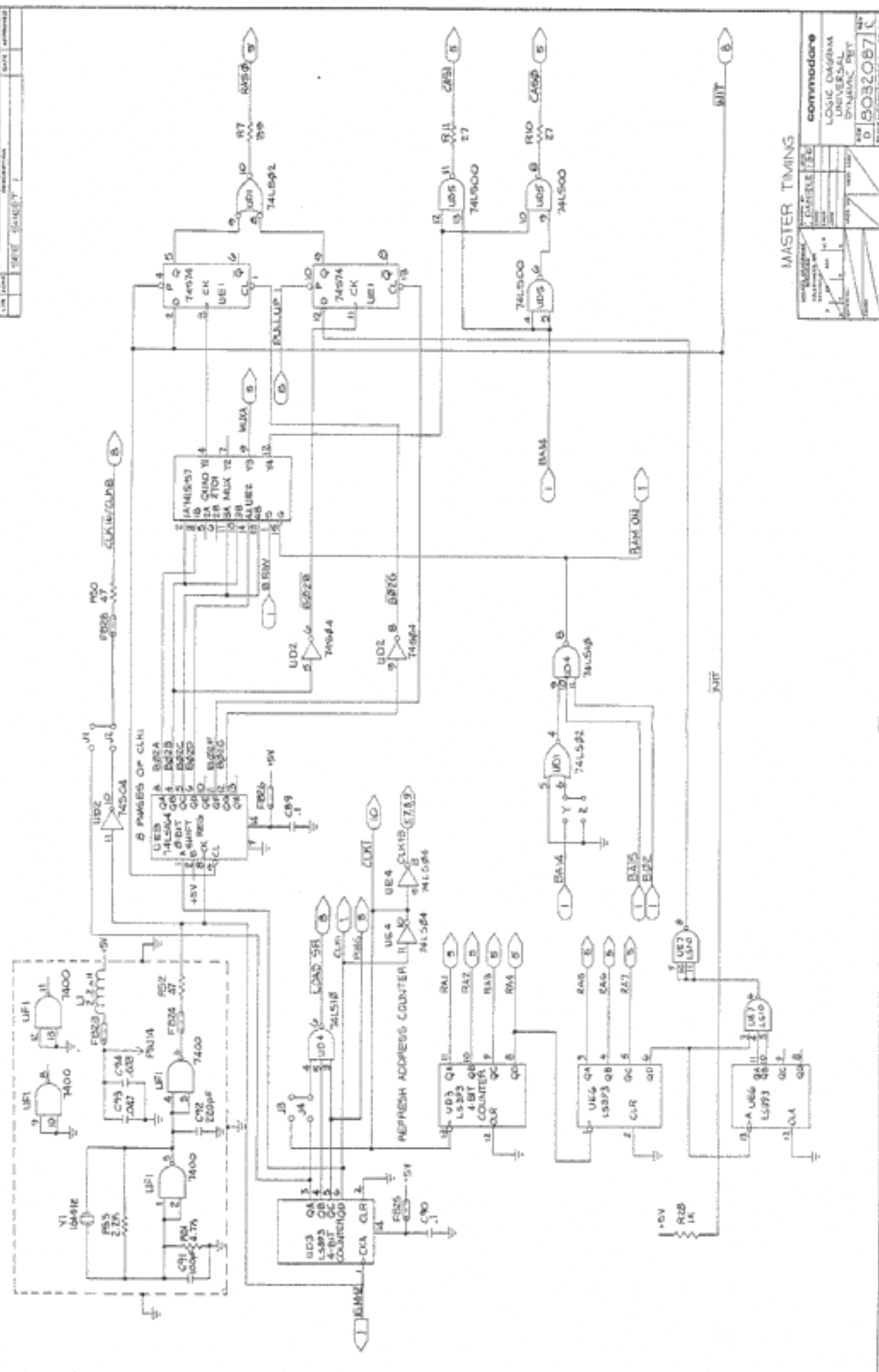
IEEE-488 INTERFACE

DATE	11/11/81	REV	C
DESIGNER	C. DANIEL	SCALE	NONE
CHECKED		SHEET	2 OF 11
APPROVED			
COMMODORE			
LOGIC DIAGRAM			
UNIVERSAL			
DYNAMIC PET			
8032087			

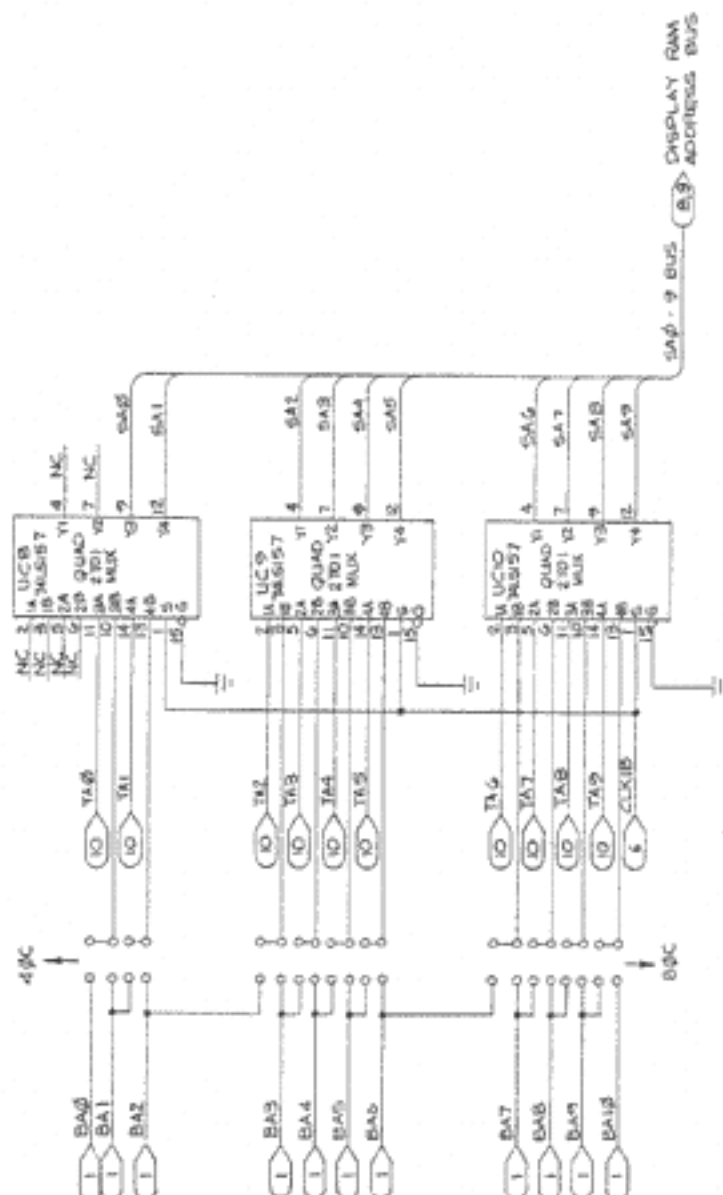


CASSETTE & KEYBOARD

C. DANIELLE 18-8
 LOGIC DIAGRAM
 UNIVERSAL
 DYNAMIC PET
 SIZE D 8032087
 SCALE NONE SHEET 3 OF 11

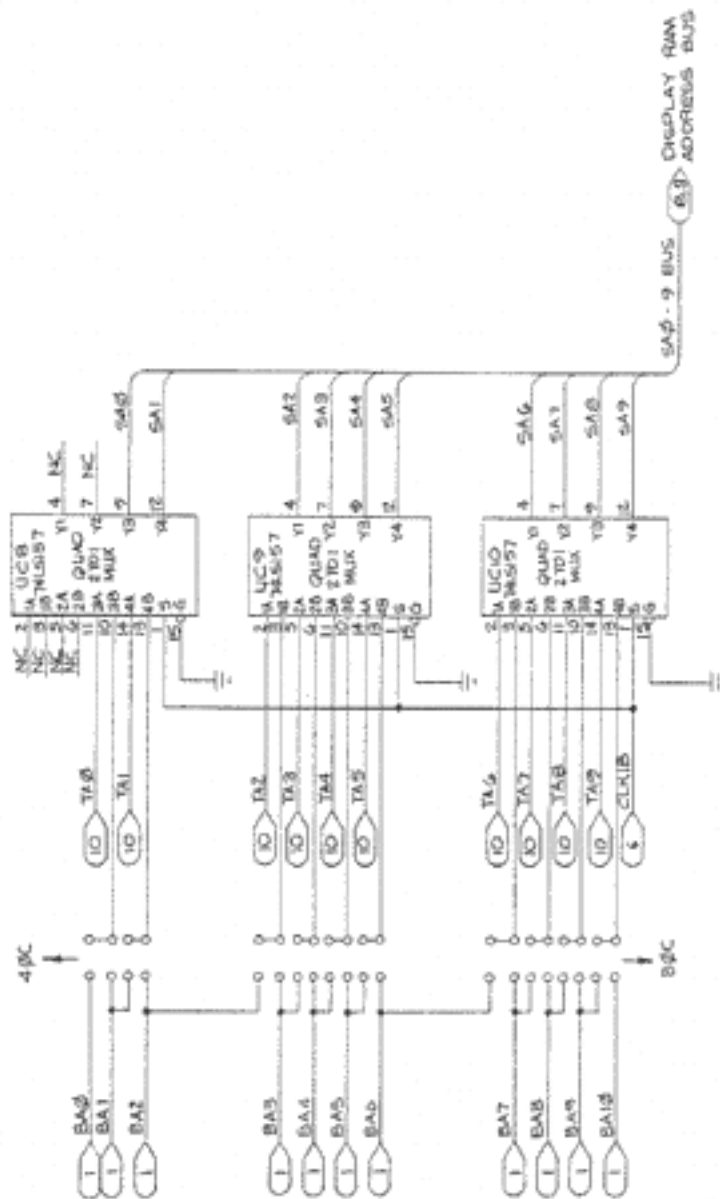


MASTER TIMING



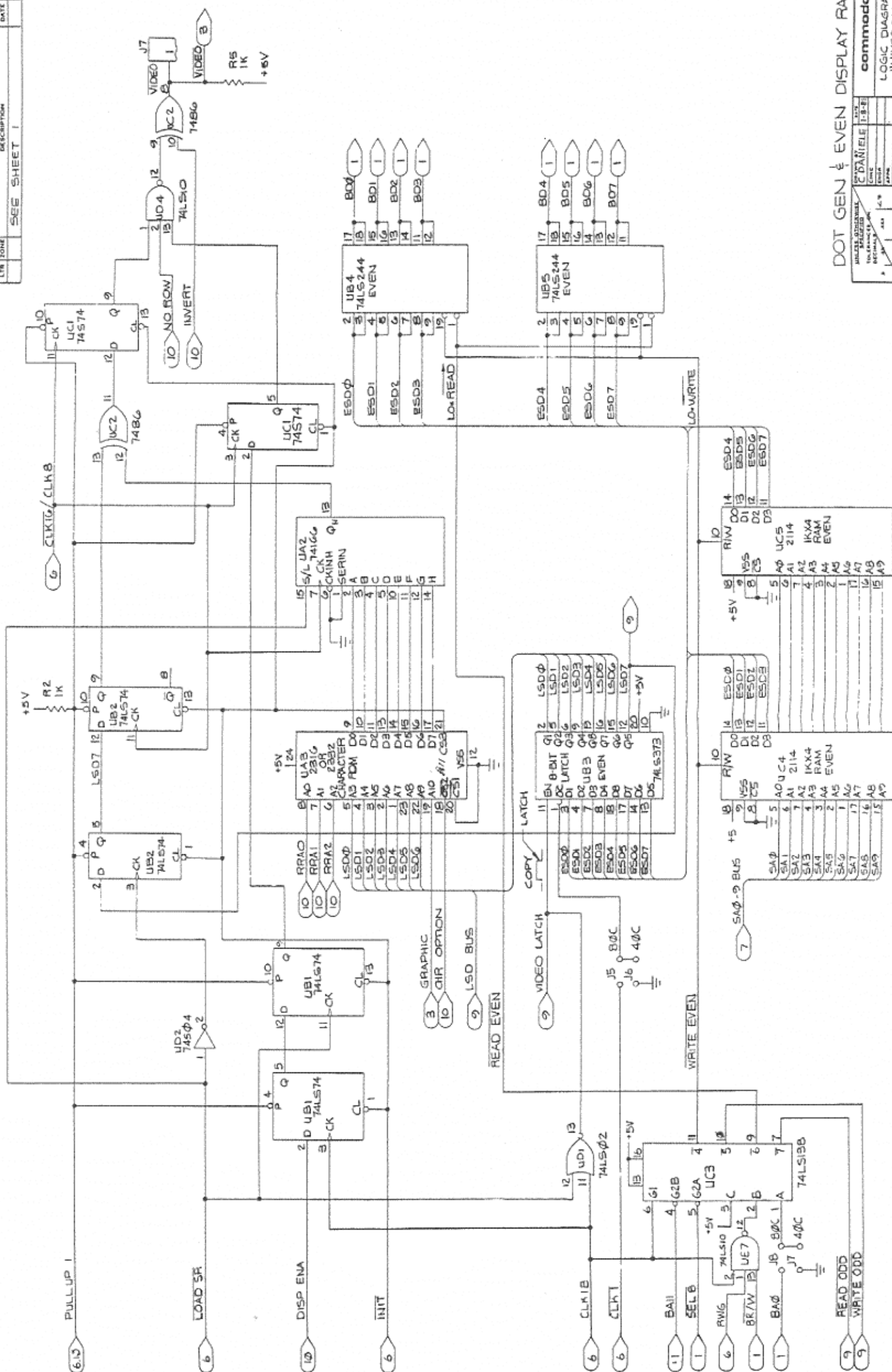
DISPLAY ADDRESS MUX

	CITY OF NEW YORK	COMMUNAL	LOGIC DIAGRAM UNIVERSAL DYNAMIC PET	8032087	2
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DISPLAY ADDRESS MUX

COMPANY	DATE	REV	DESIGN	REV
COMMODORE	08/07/01	000000	000000	000000
LOGIC DIAGRAM				
UNIVERSAL				
DYNAMICS PET				
08032087				
2				



DOT GEN & EVEN DISPLAY RAMS

JAMES ORTHOMAX SPECIALIST		DRAWN BY C DANIEL		DATE 1-8-8	
TOLERANCE FRACTIONAL DECIMAL ANG		LARGE ENGR APPR		LOGIC	
PARTS		USED ON		NEXT ASSY	
PARTS		USED ON		NEXT ASSY	
PARTS		USED ON		NEXT ASSY	

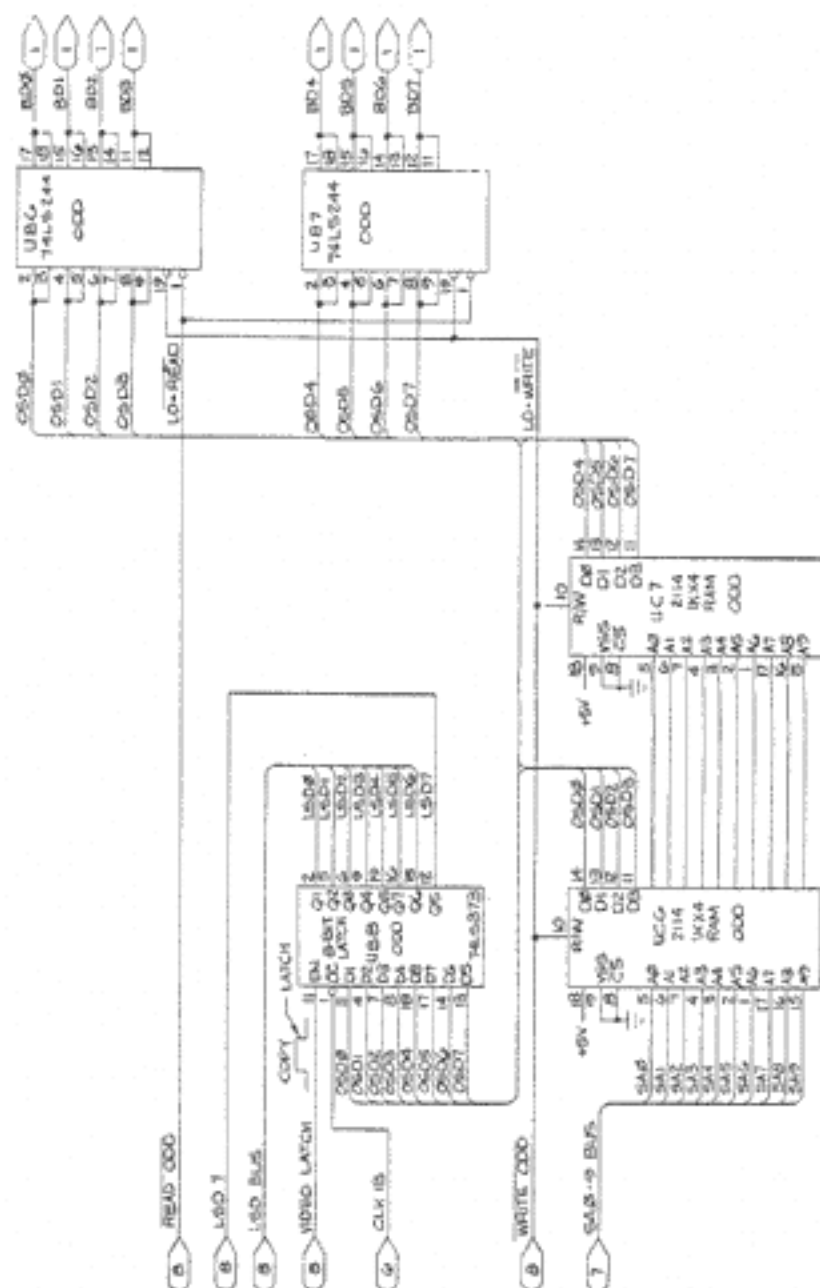
commodore

LOGIC DIAGRAM

UNIVERSAL

DYNAMIC PET

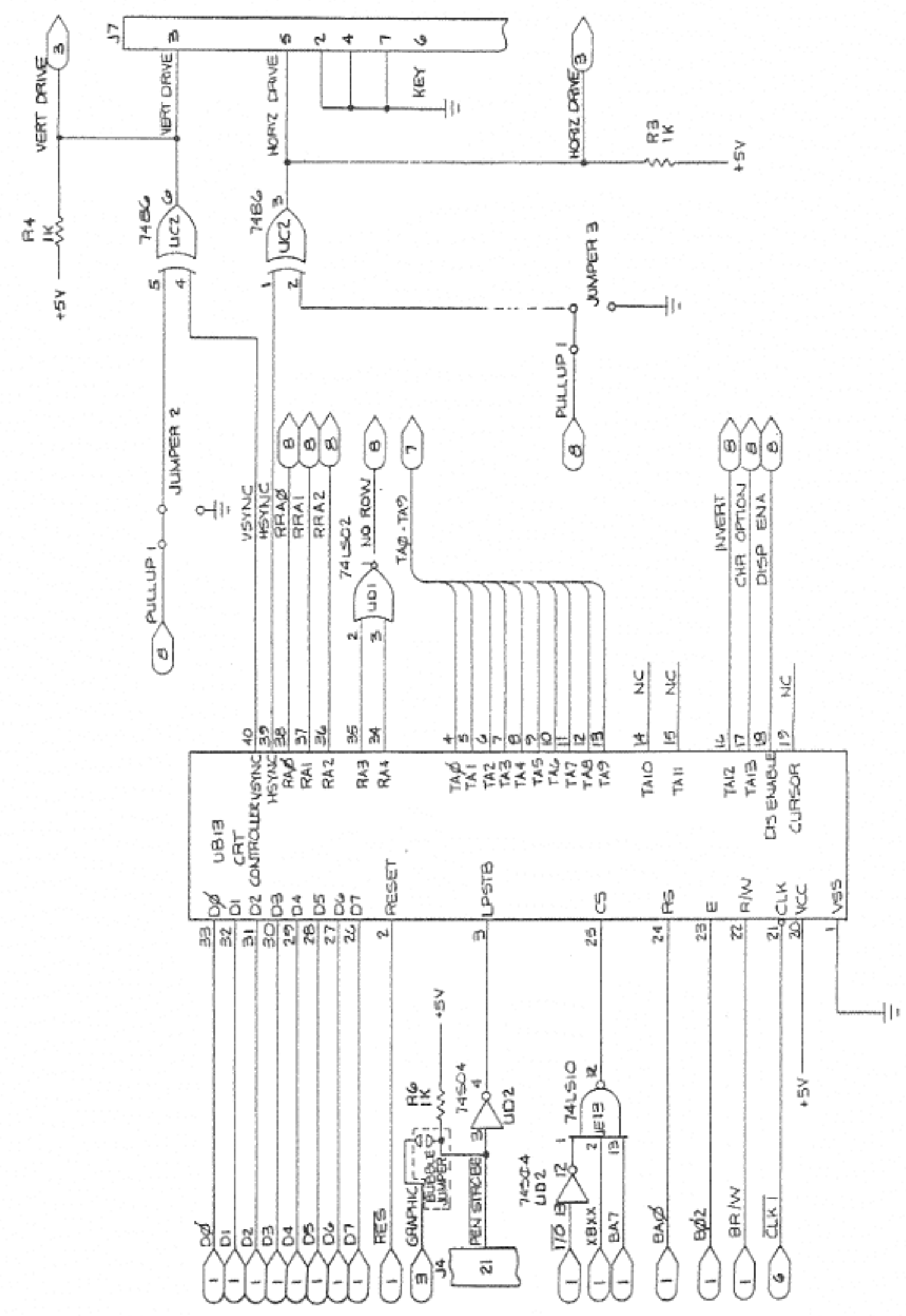
BOX	REV
D	C
8032087	
SCALE NONE 1 SHEET OF 11	



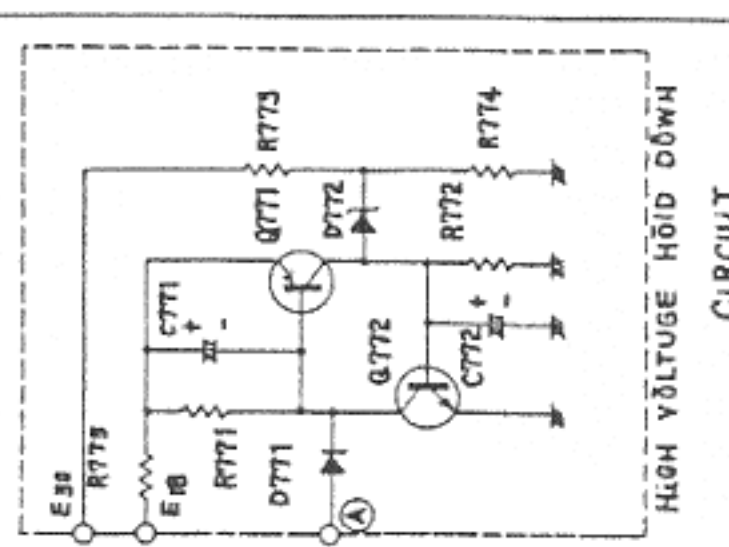
ODD DISPLAY RAMS

DATE	BY	APP
04/01/01	[blank]	[blank]

commodore
LOGIC DIAGRAM
UNIVERSAL
SYSTEMS
PIT
D 8032.001
PIT 8032.001



SCALE NONE		SHEET 1		OF 1	
B		321448		REV 1	
PCB SCHEMATIC					
12" CRT DISPLAY					
commodore					



321450

REVISIONS

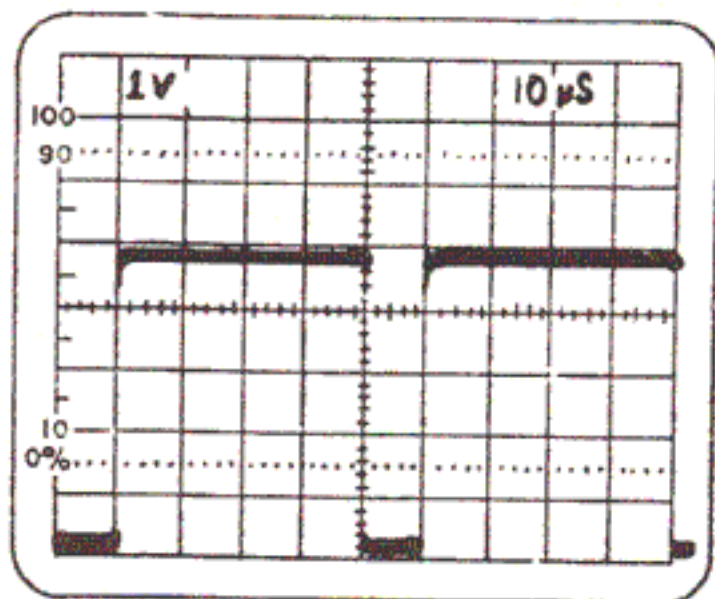
LTR	ZONE	DESCRIPTION	DATE	APPROVED
A		PRODUCTION RELEASE	12/29/80	<i>[Signature]</i>

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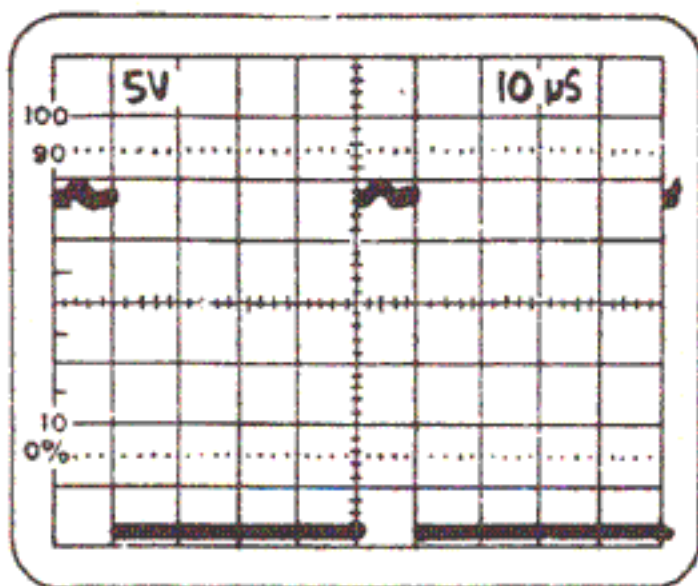
DRAWN BY: <i>Martin</i>	DATE: 12-5-80			
CHKD: <i>[Signature]</i>	12/9/80			
ENGR: <i>[Signature]</i>	12/29/80	TITLE: PCB WAVEFORMS 12" CRT DISPLAY		
PROD:		SIZE: A	DWG NO. 321450	REV: A
APPD:		RELEASE DATE: SHEET 1 OF 10		

VIDEO (1/1)

1



2



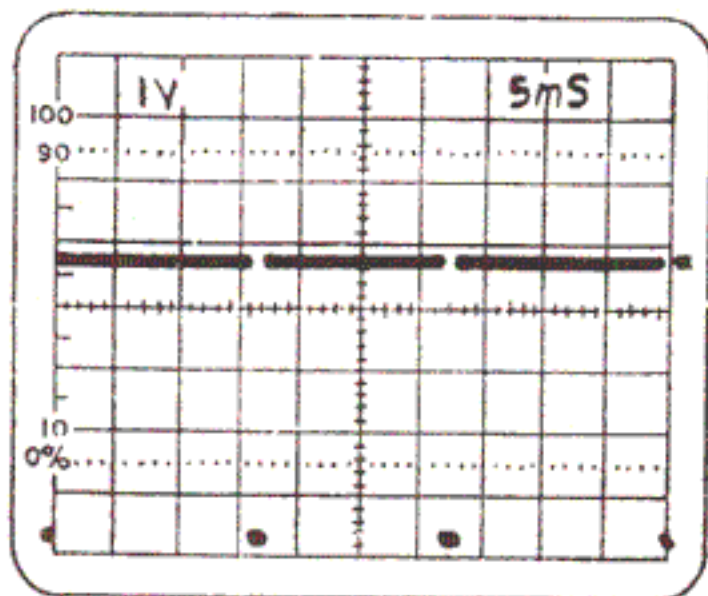
commodore

PCB WAVEFORMS
12" CRT DISPLAY

SIZE	321450	REV
A		A
SCALE NONE	SHEET 2	OF 10

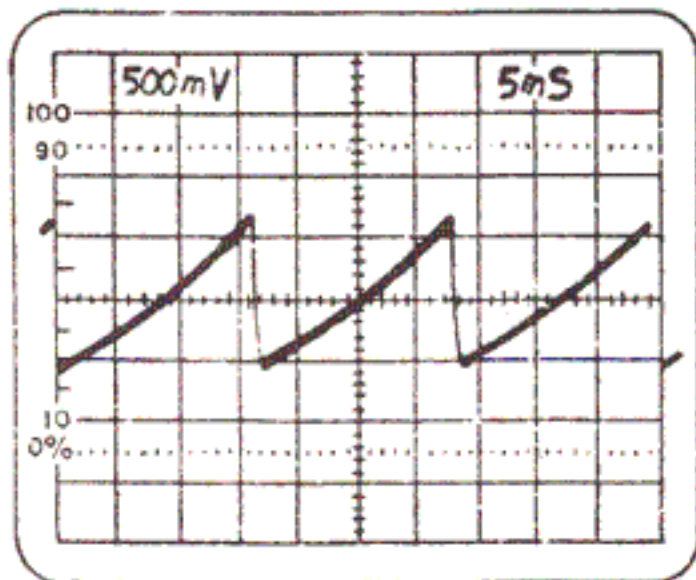
VERTICAL (1/3)

3



0

4



0

commodore

PCB WAVEFORMS

12" CRT DISPLAY

SIZE

A

321450

REV

A

SCALE

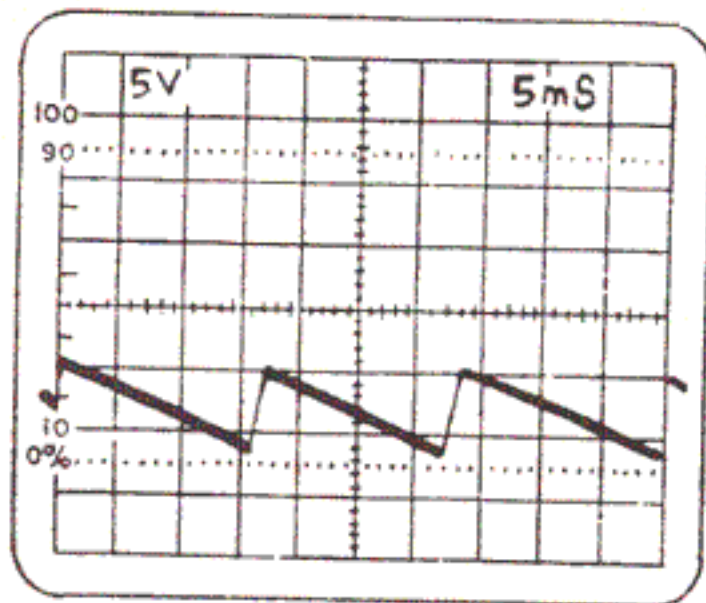
NONE

SHEET 3

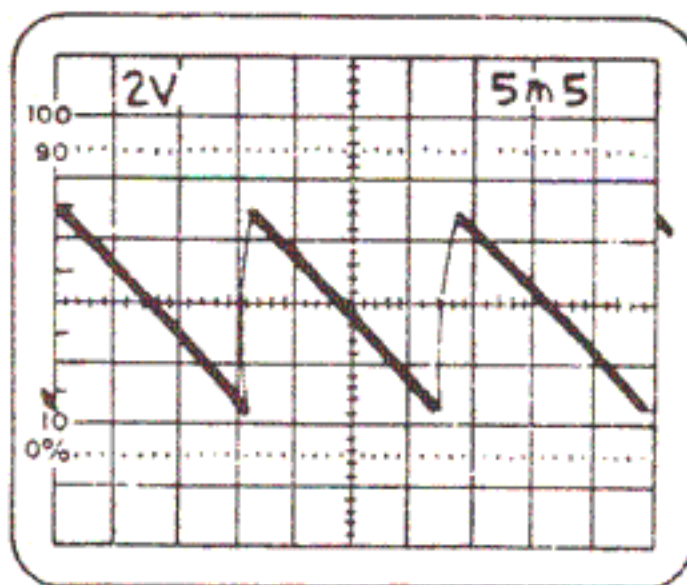
OF 10

VERTICAL (1/3)

5



6



commodore

PCB WAVEFORMS
12" CRT DISPLAY

SIZE

A

321450

REV

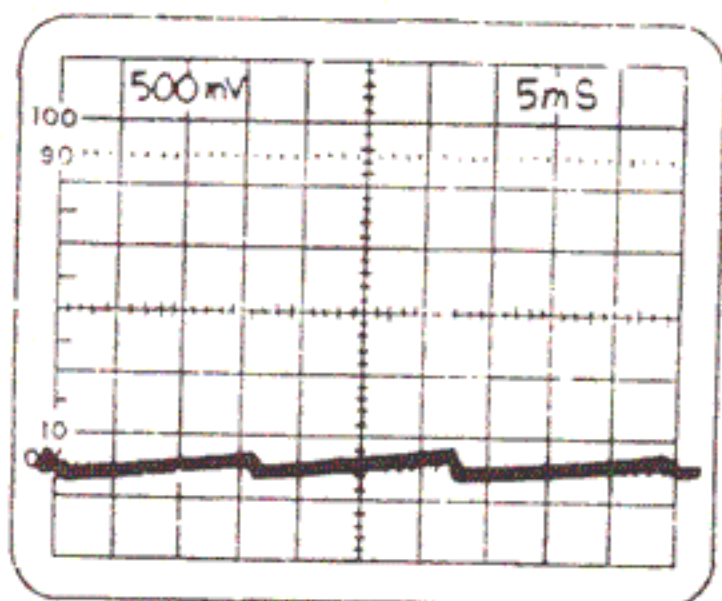
A

SCALE NONE

SHEET 4 OF 10

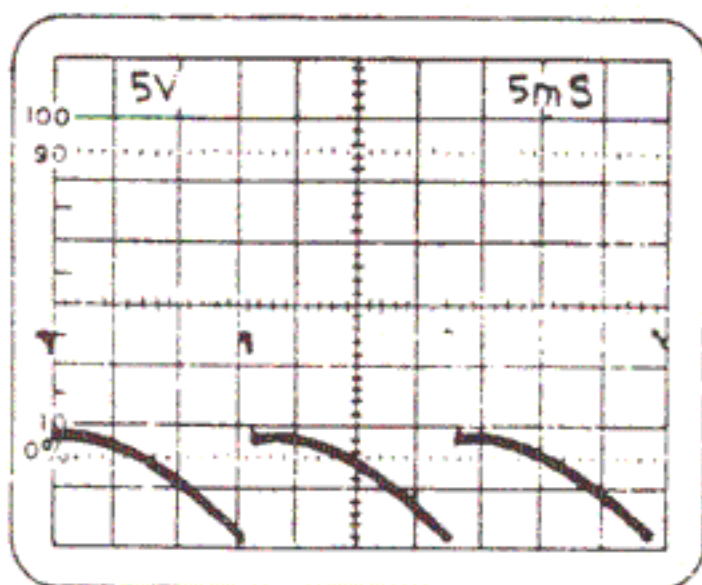
VERTICAL (2/3)

7



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8



0

commodore

PCB WAVEFORMS
12" CRT DISPLAY

SIZE

A

321450

REV

A

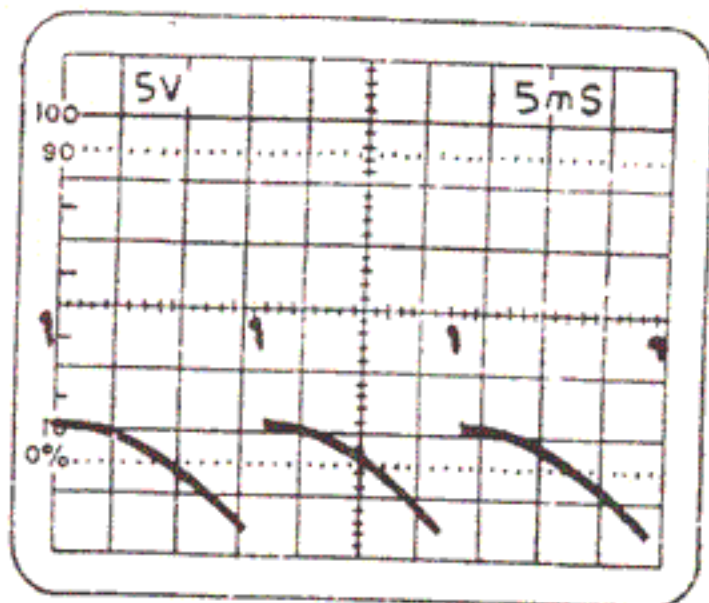
SCALE NONE

SHEET 5

OF 10

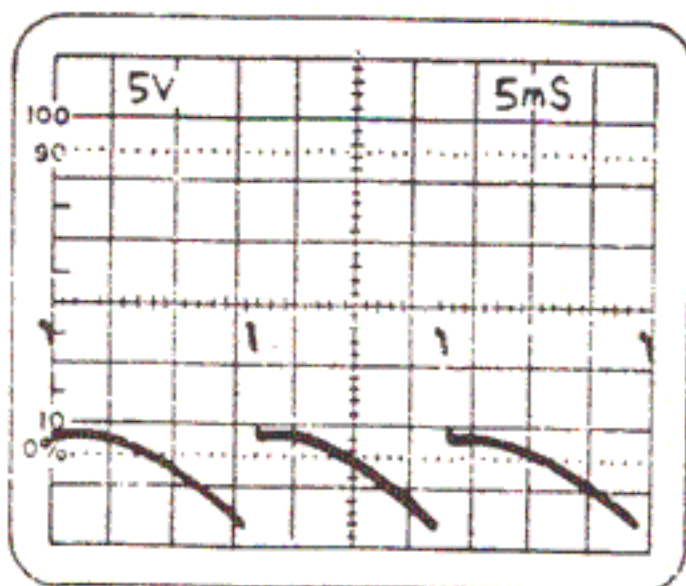
VERTICAL (2/3)

9



0

10



0

commodore

PCB WAVEFORMS
12" CRT DISPLAY

SIZE

A 321450

REV

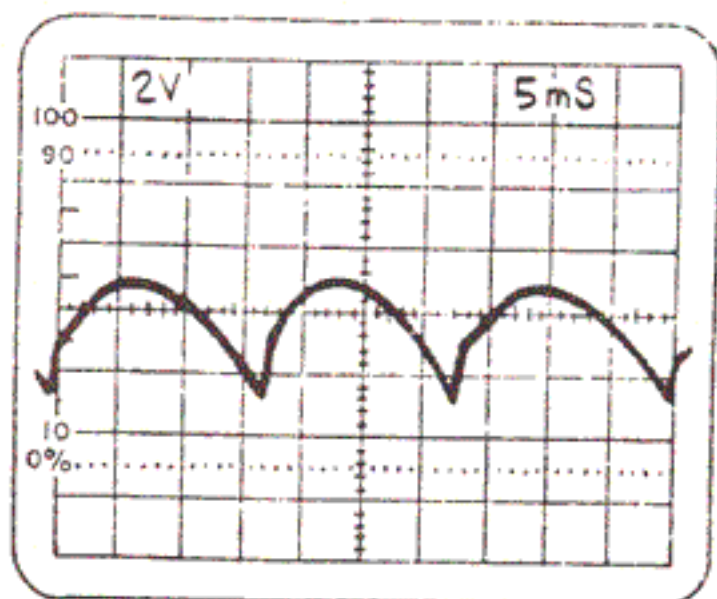
A

SCALE NONE

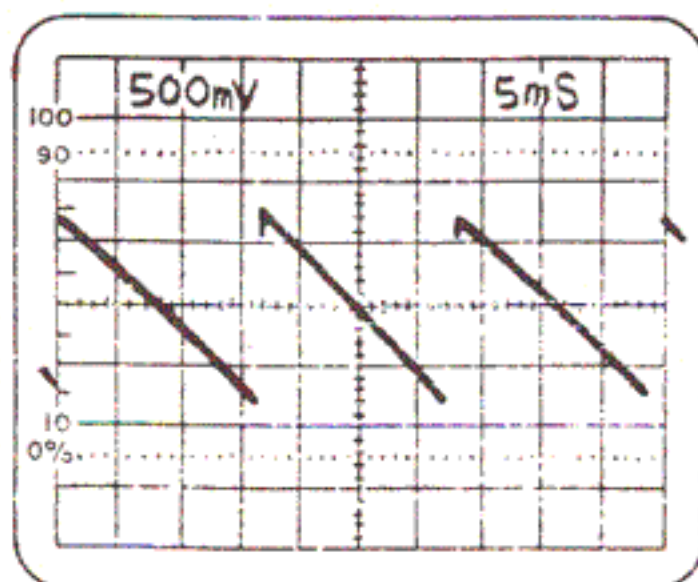
SHEET 6 OF 10

VERTICAL (3/3)

11



12



commodore

PCB WAVEFORMS
12" CRT DISPLAY

SIZE

A

321450

REV

A

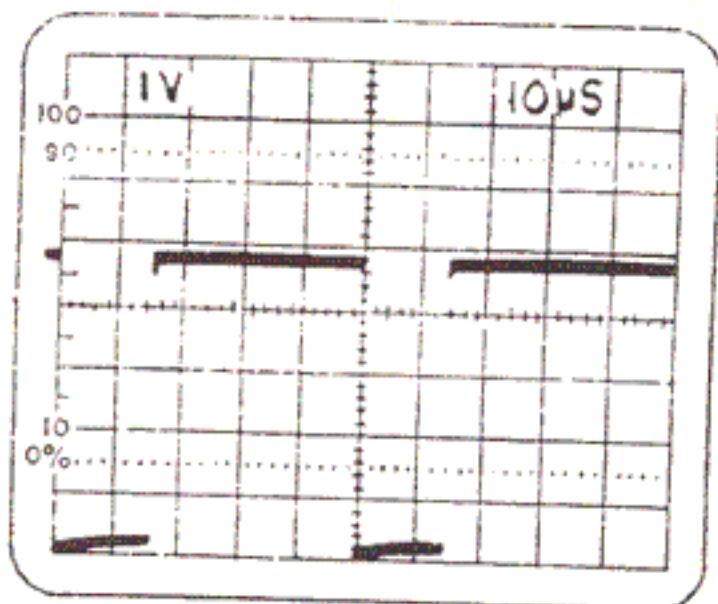
SCALE NONE

SHEET 7

OF 10

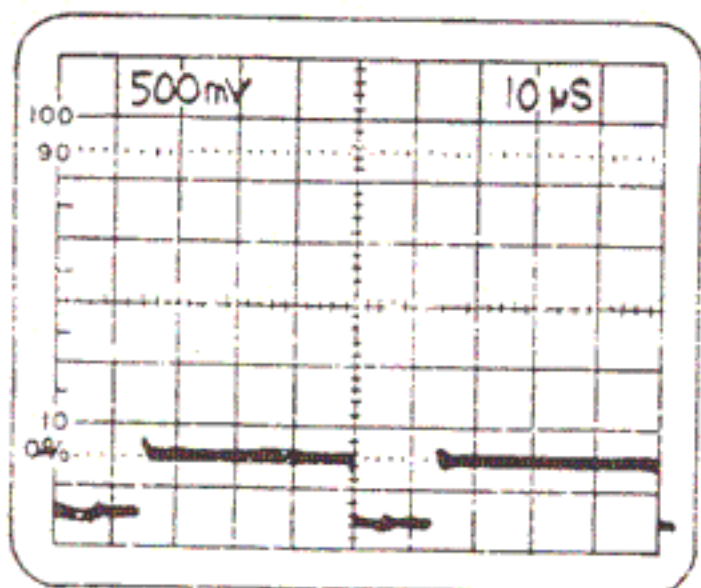
HORIZONTAL (1/2)

3



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14



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commodore

PCB WAVEFORMS
12" CRT DISPLAY

SIZE

A

321450

REV

A

SCALE

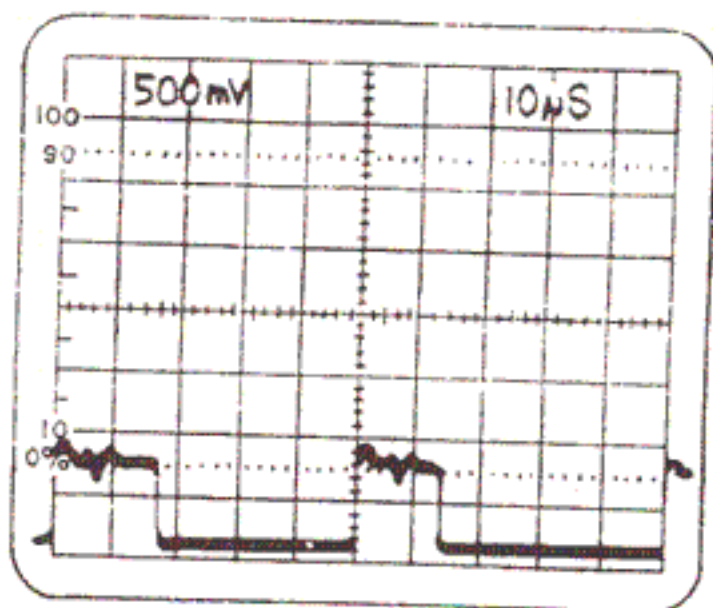
NONE

SHEET 8

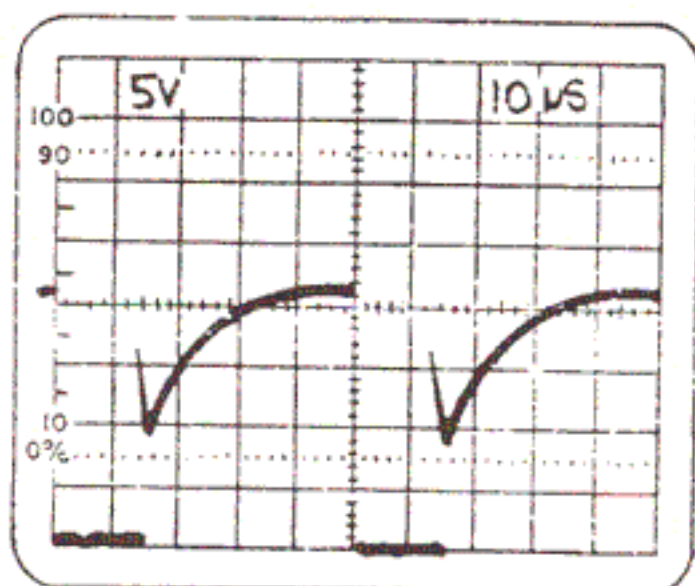
OF 10

HORIZONTAL (1/2)

15



16



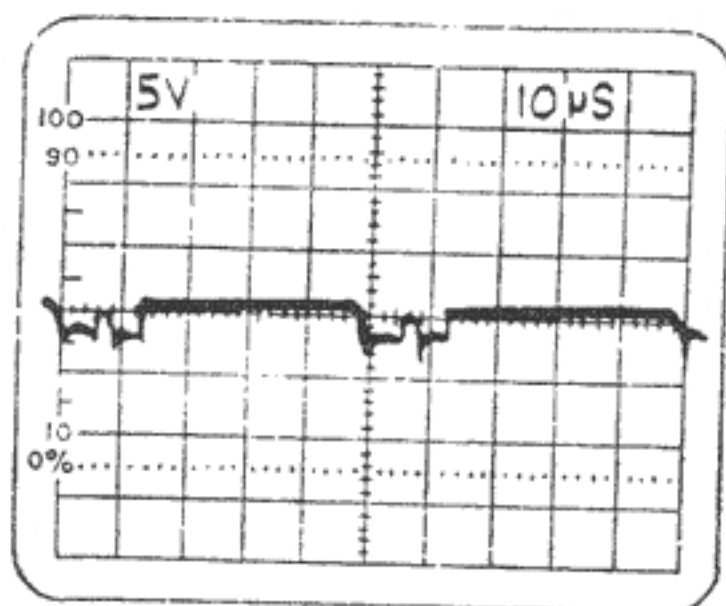
commodore

PCB WAVEFORMS
12" CRT DISPLAY

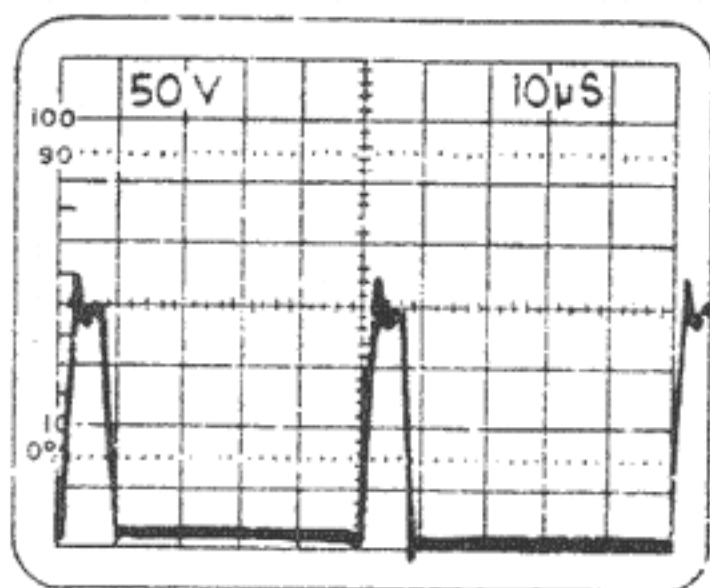
SIZE	A	321450	REV	A
SCALE	NONE	SHEET 9	OF 10	

HORIZONTAL (2/2)

17



18

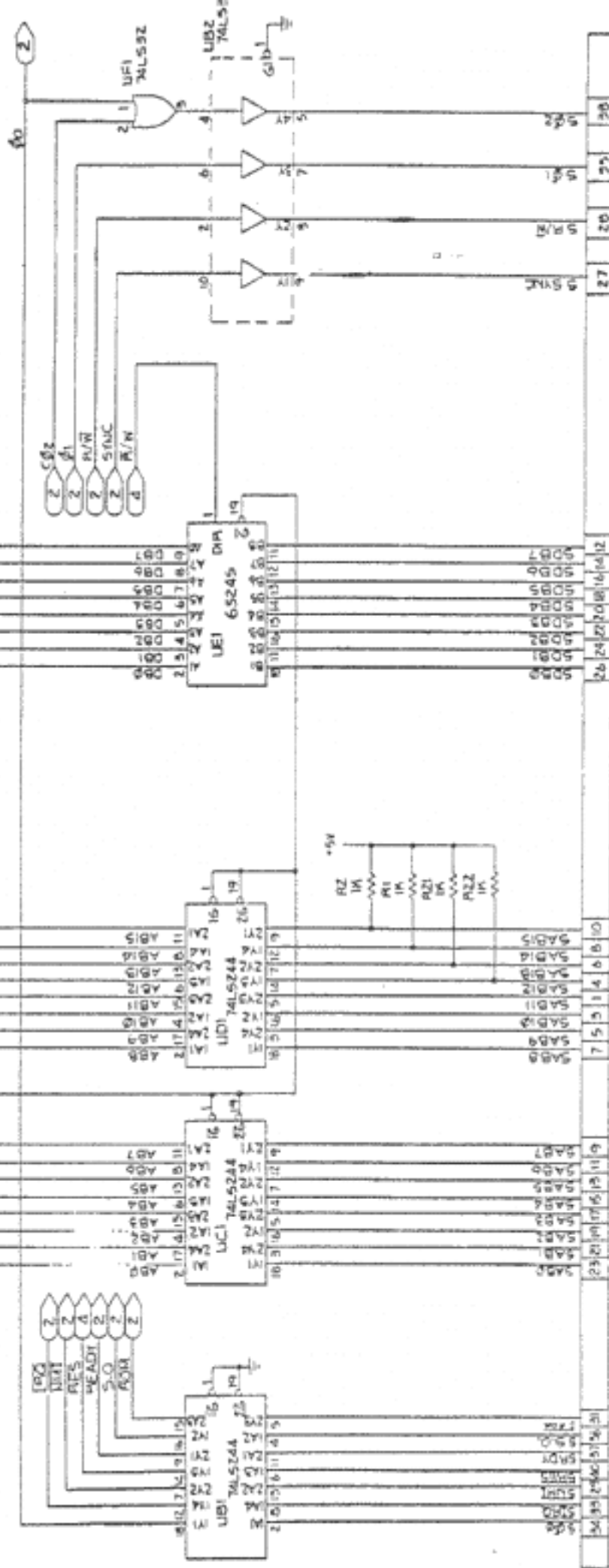


commodore

PCB WAVEFORMS
12" CRT DISPLAY

SIZE	A	321450	REV	A
SCALE	NONE	SHEET	10	OF 10

REVISIONS		DATE	BY
A	PRODUCTION RELEASE	10/1/77	WJ
B	REV PER ECO 2064	1/16/78	WJ
C	REV PER ECO 2025	2/22/78	WJ
D	REV PER ECO 2137	1/1/79	WJ



15

3 DO NOT MOUNT FLUSH TO THE BOARD. MOUNT STAGERS UP.

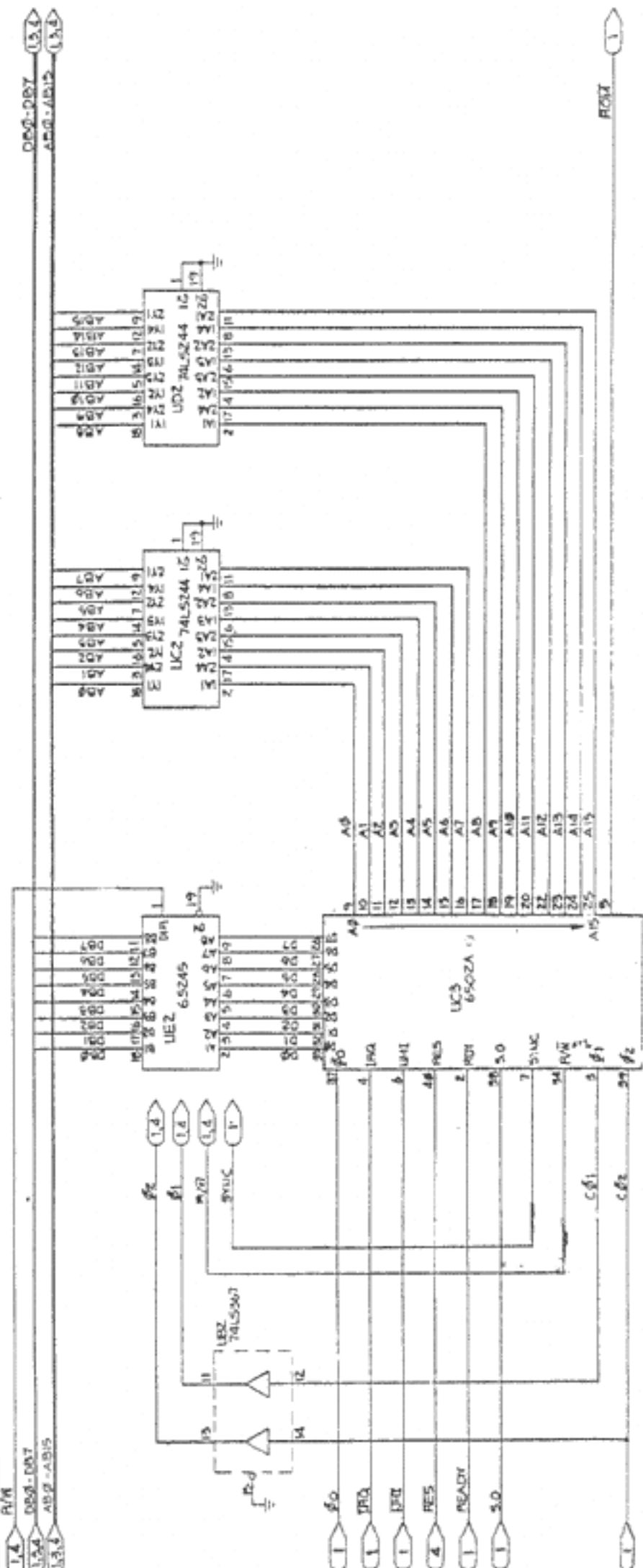
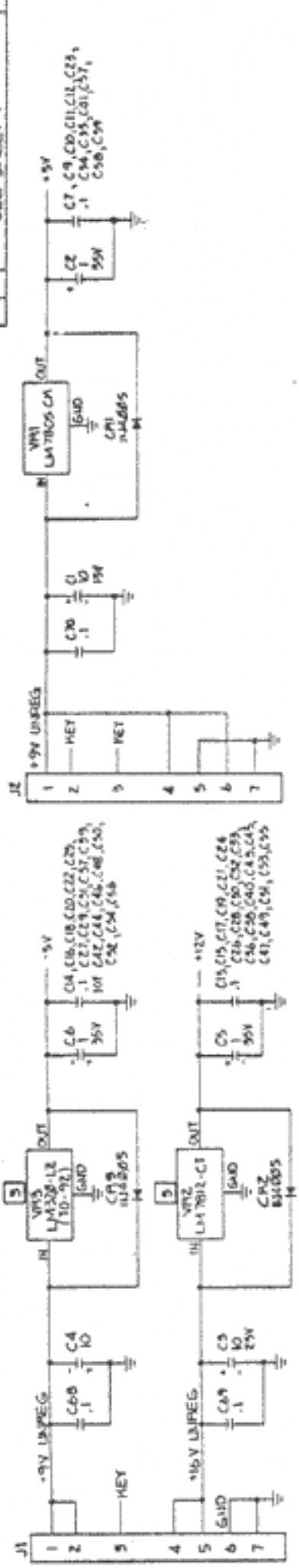
2 CAPACITANCE VALUES ARE IN MICROFARADS. 50V.

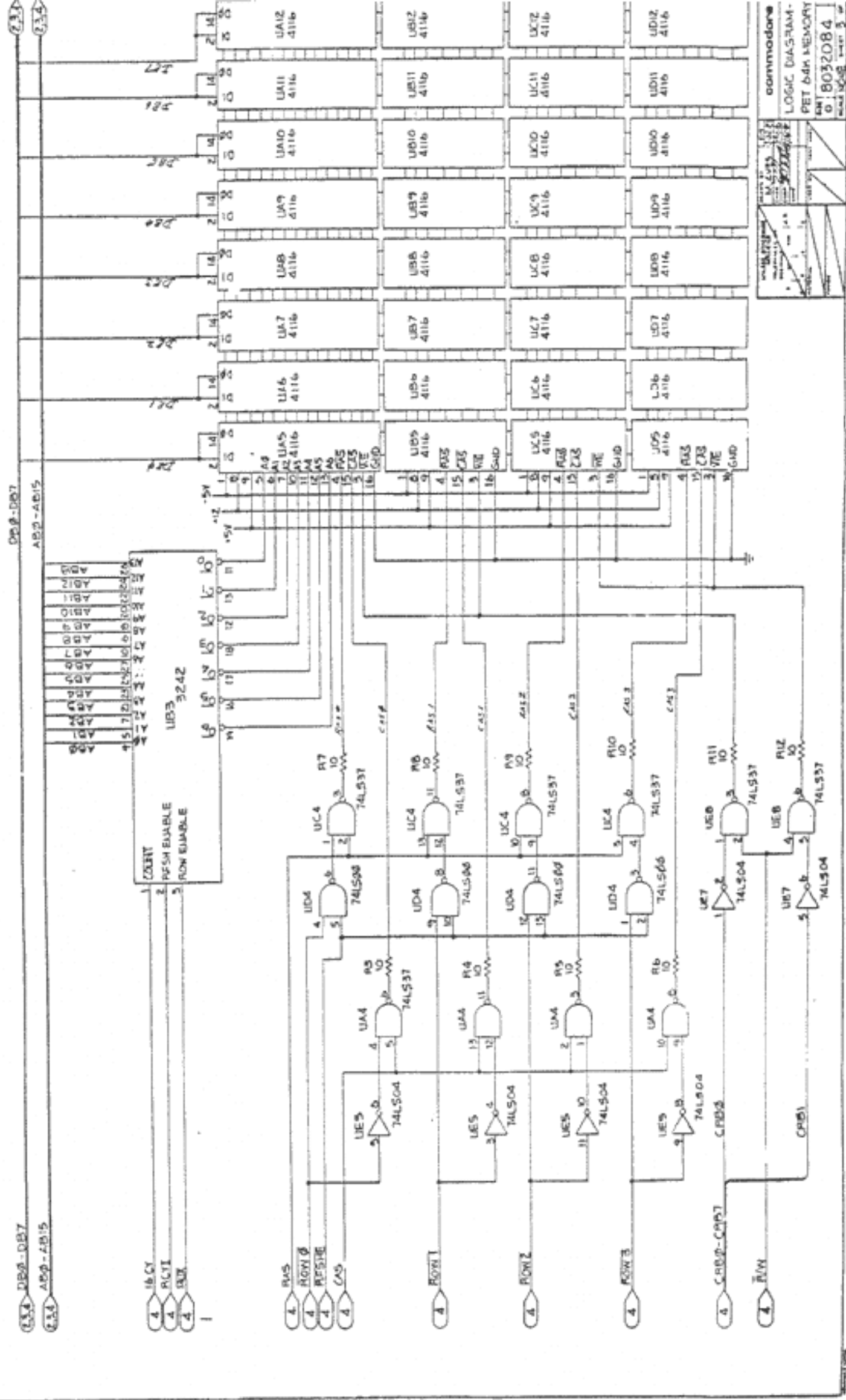
1 RESISTANCE VALUES ARE IN OHMS, 1/4W 1%.

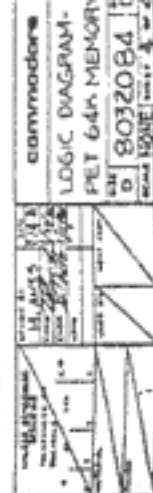
NOTES-UNLESS OTHERWISE SPECIFIED:

-OI SHOWN

COMMERCIAL		COMMERCIAL	
DATE	10/1/77	DATE	10/1/77
BY	WJ	BY	WJ
REV	1	REV	1
LOGIC DIAGRAM		LOGIC DIAGRAM	
PET 64K MEMO		PET 64K MEMO	
8032084		8032084	
WJ		WJ	







CHANGE SILKSCREEN TO SHOW
ACTUAL CONDITION.

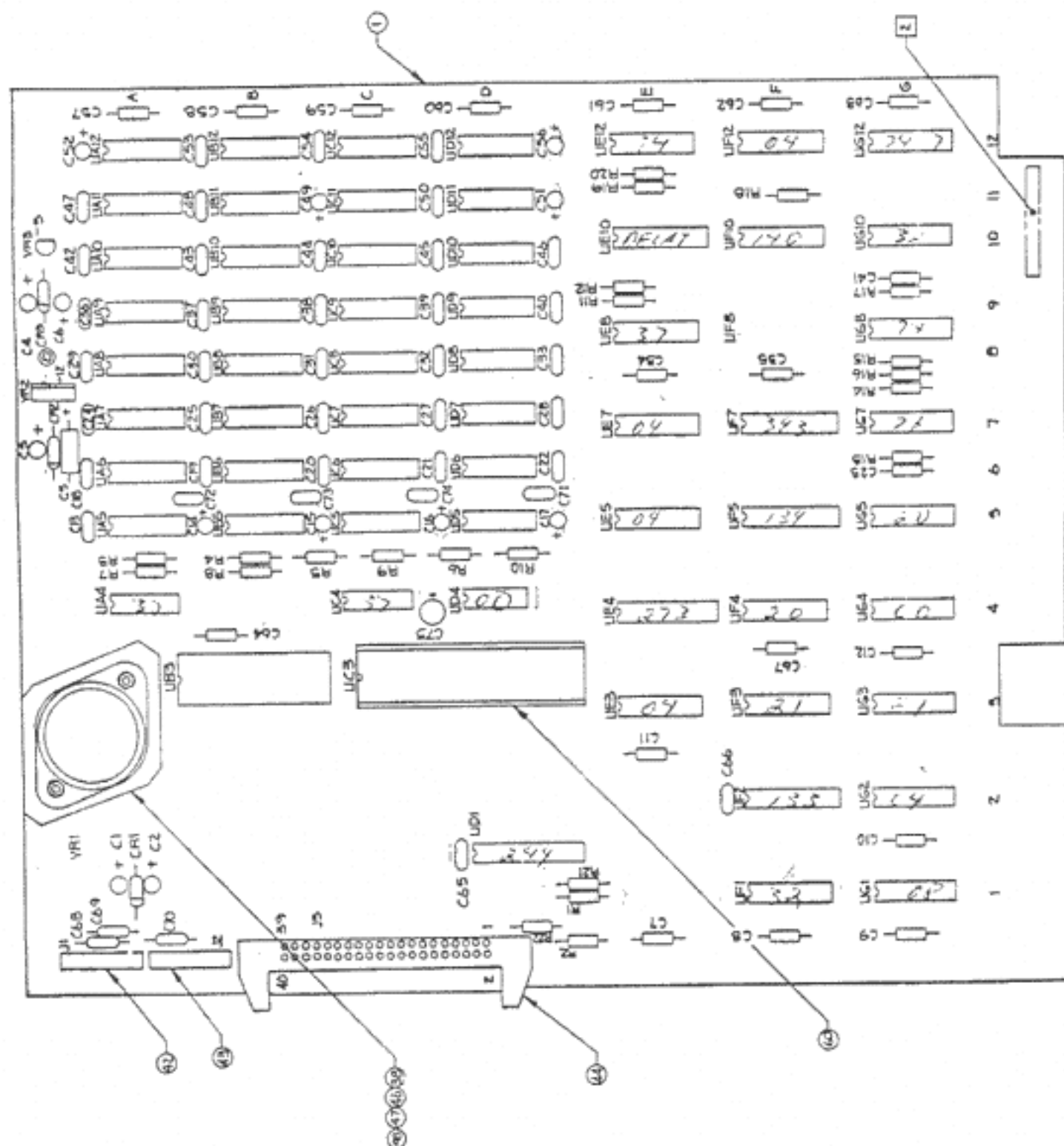


FIGURE 10-10

[illegible]

SEE SHEET 1

DATE

BY

APP'D

REVISED

DATE

BY

APP'D

REVISED

DATE

BY

APP'D

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DATE

BY

APP'D

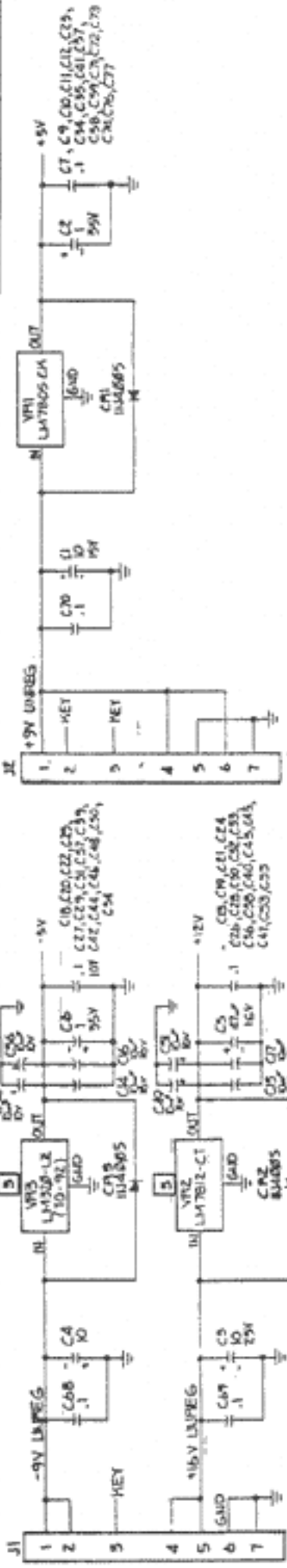
REVISED

DATE

BY

APP'D

REVISED



commodore

LOGIC DIAGRAM -

PET 64K MEMORY

U1 7401

U2 7402

U3 7403

U4 7404

U5 7405

U6 7406

U7 7407

U8 7408

U9 7409

U10 7410

U11 7411

U12 7412

U13 7413

U14 7414

U15 7415

U16 7416

U17 7417

U18 7418

U19 7419

U20 7420

U21 7421

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U82 7482

U83 7483

U84 7484

U85 7485

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U91 7491

U92 7492

U93 7493

U94 7494

U95 7495

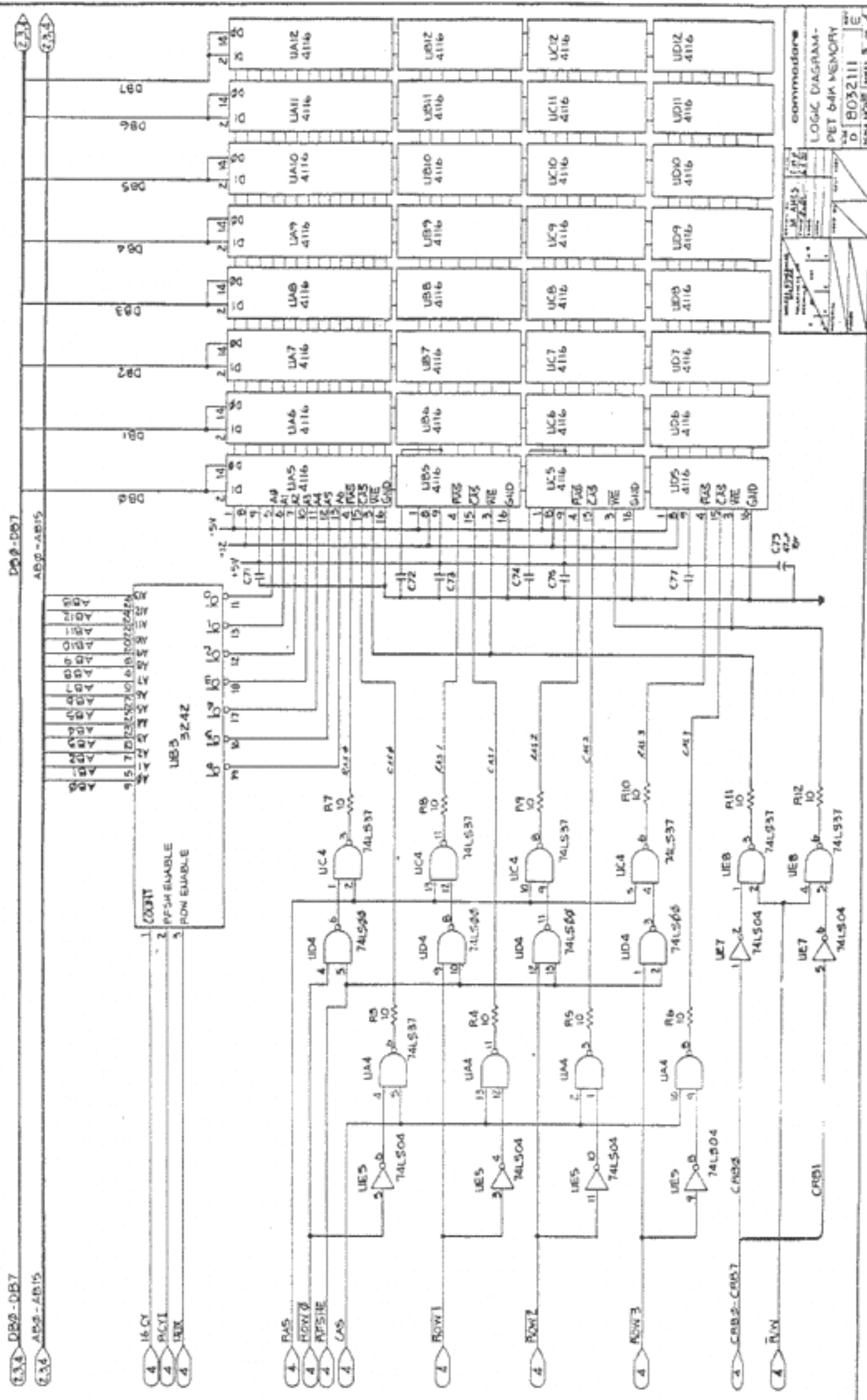
U96 7496

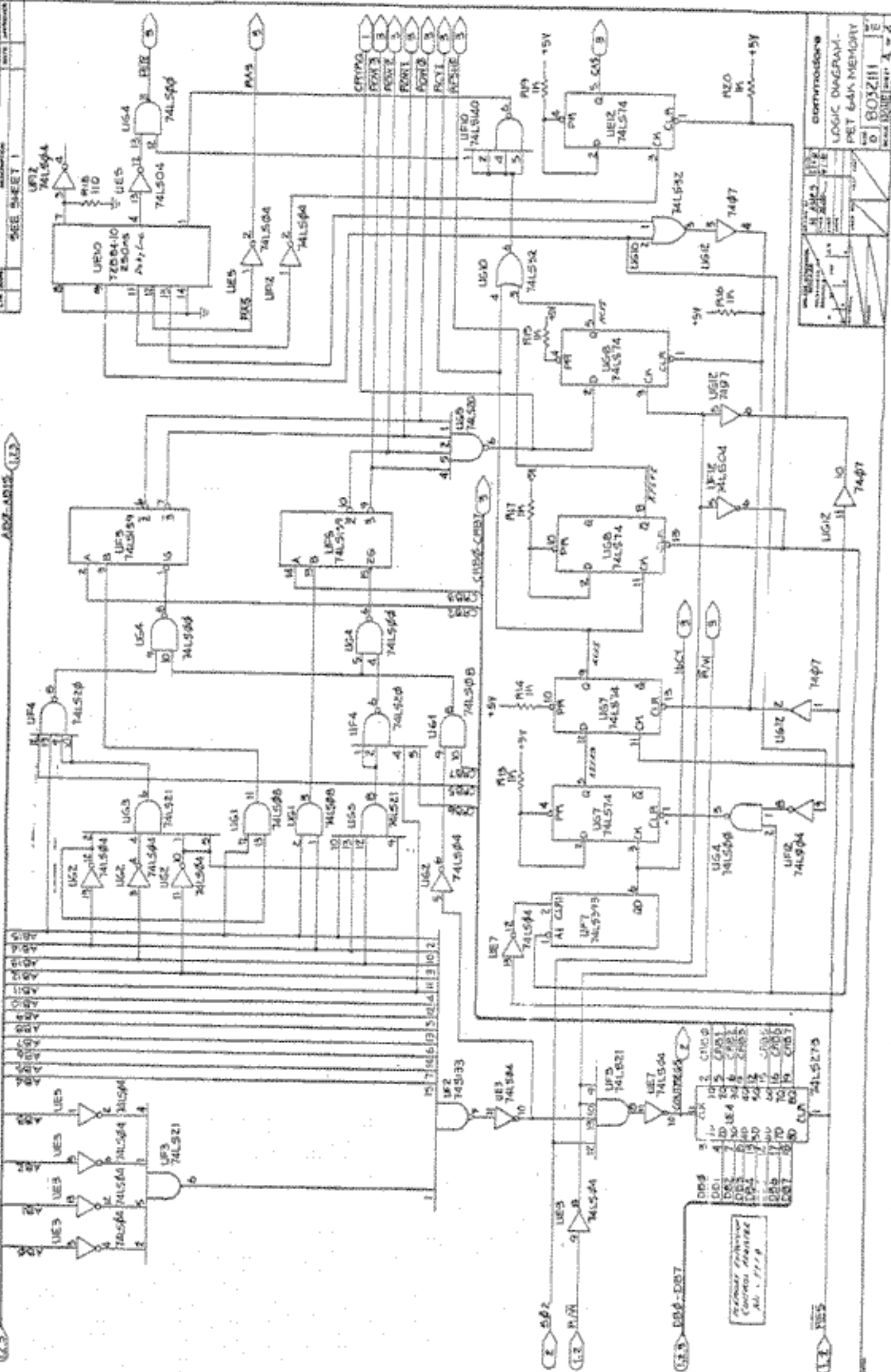
U97 7497

U98 7498

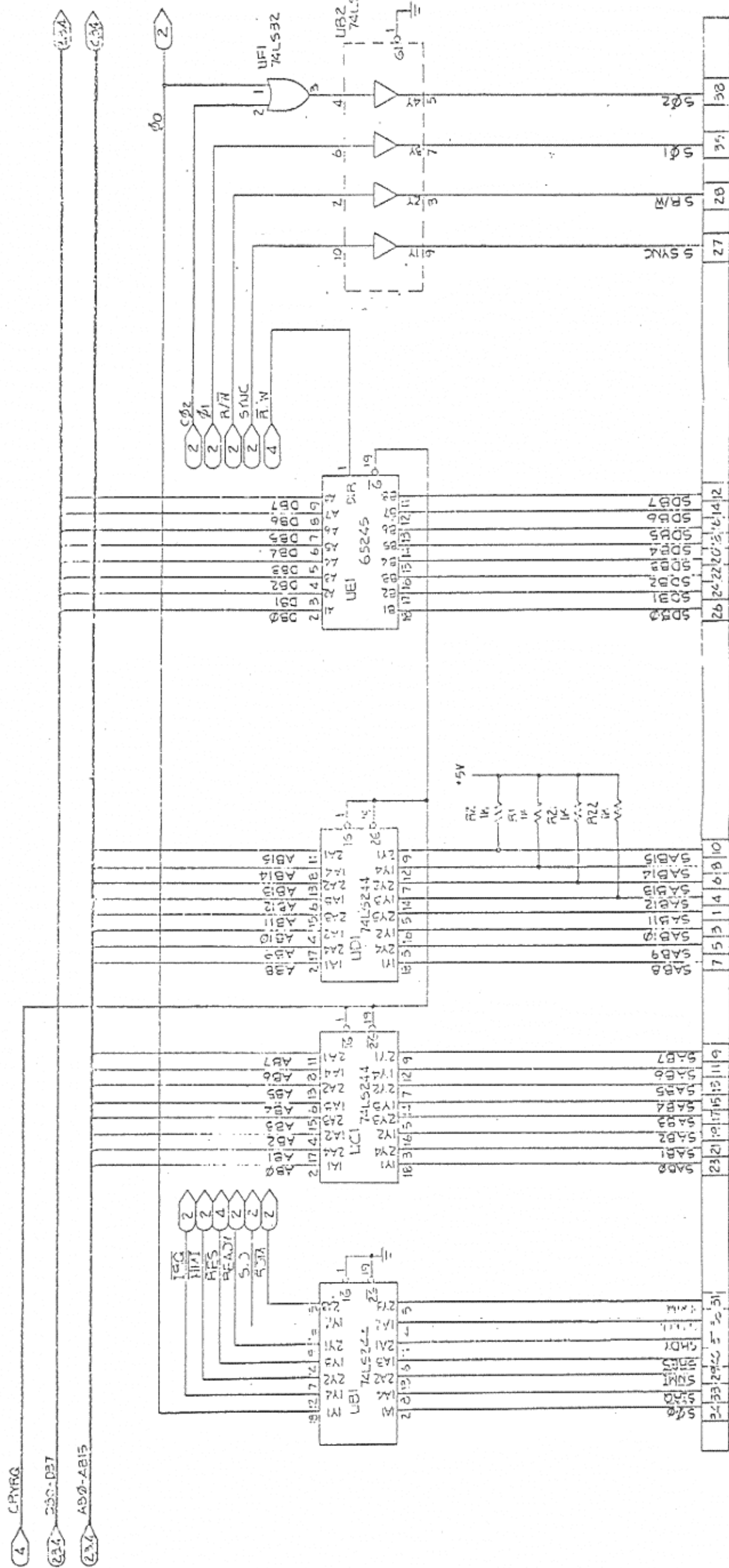
U99 7499

U100 7500





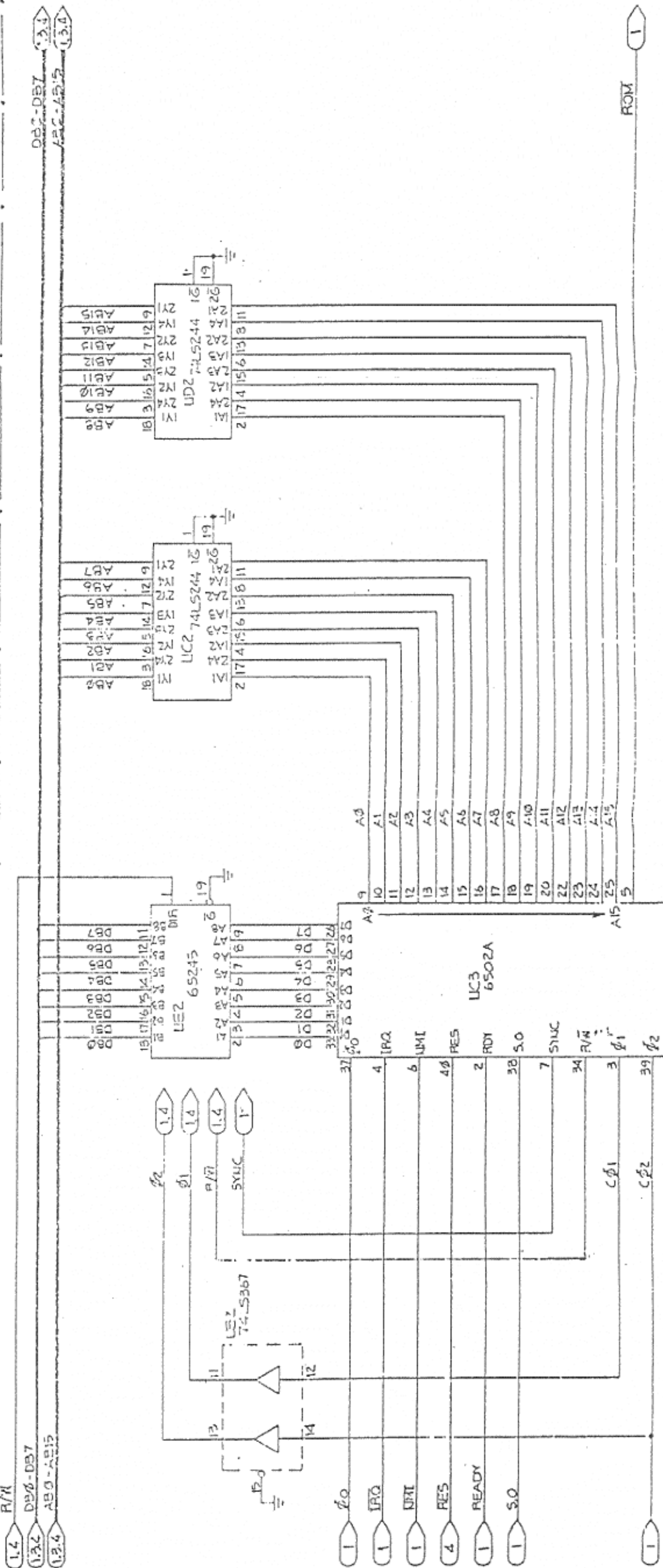
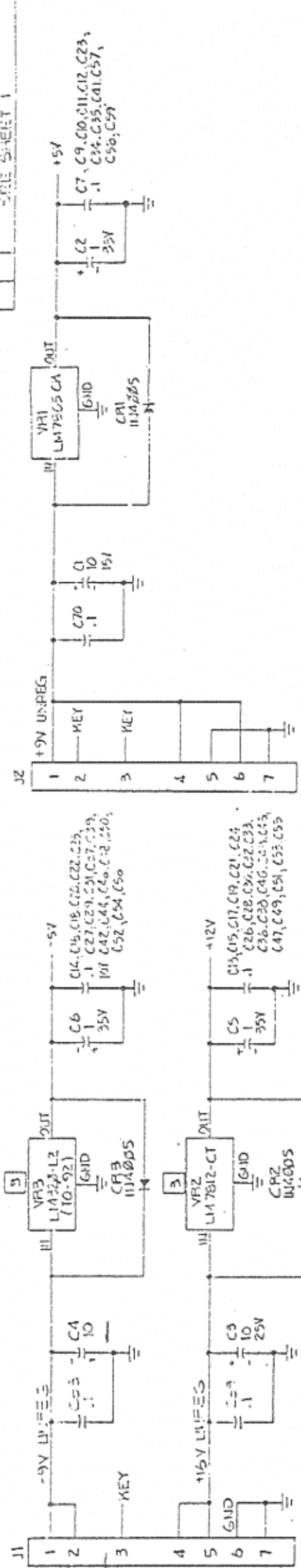
1	PRODUCED BY	DATE	APPROVED
A	PRODUCTION RELEASE		
B	REV PER ECO 2064		
C	REV PER ECO 2095		
D	REV PER ECO 2137		



NOT SHOWN

commodore	LOGIC DIAGRAM
PET 64K MEMOR	PET 64K MEMOR
9020RS	9020RS
64K	64K
D 8032024	D 8032024

- DO NOT MOUNT FLUSH TO THE BOARD. MOUNT STANDINGS UP.
- CAPACITANCE VALUES ARE 100PF UNLESS SPECIFIED.
- RESISTANCE VALUES ARE 10K UNLESS SPECIFIED.



2.3.6 DB2-DB7

2.3.4 AB0-AB15

4 16 CY
4 RCTI
4 INK

4 RAS
4 RCTI
4 RFSHE
4

4 ROW1

4 ROW2

4 ROW3

4 CRB2-CRB7

4 ROW

DB2-DB7

AB0-AB15

1 COUNT
2 PFSH ENABLE
3 ROW ENABLE

LIB3 3242

16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

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