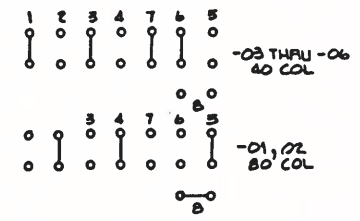
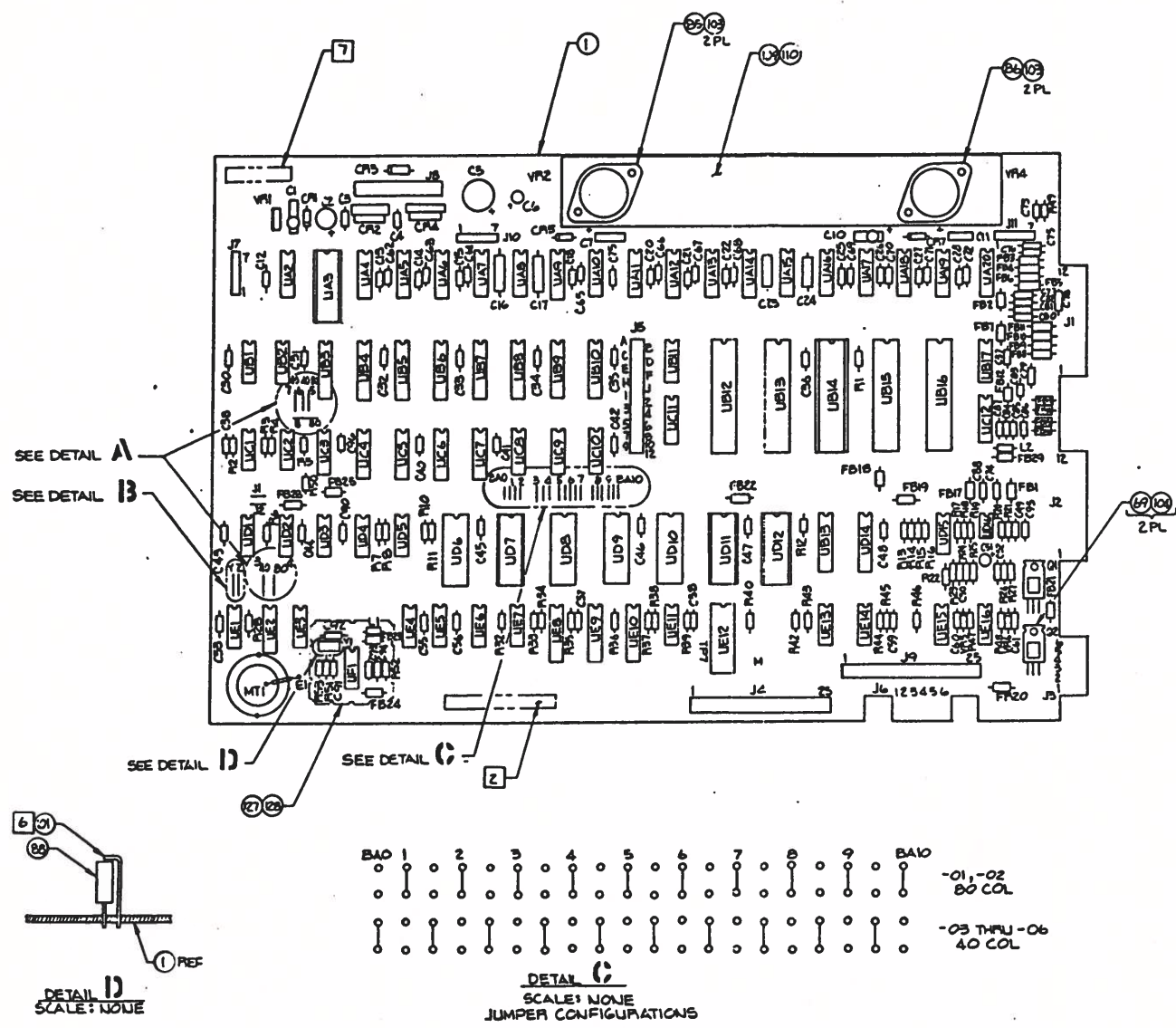
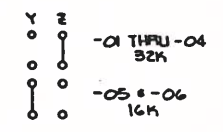


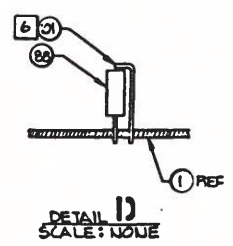
LT#	ZONE	DESCRIPTION	DATE	APPROV
		SEE SHEET 1		



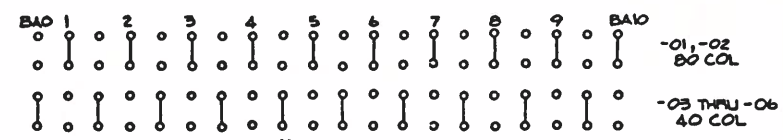
DETAIL A
SCALE: NONE
JUMPER CONFIGURATIONS



DETAIL B
SCALE: NONE



DETAIL I
SCALE: NONE



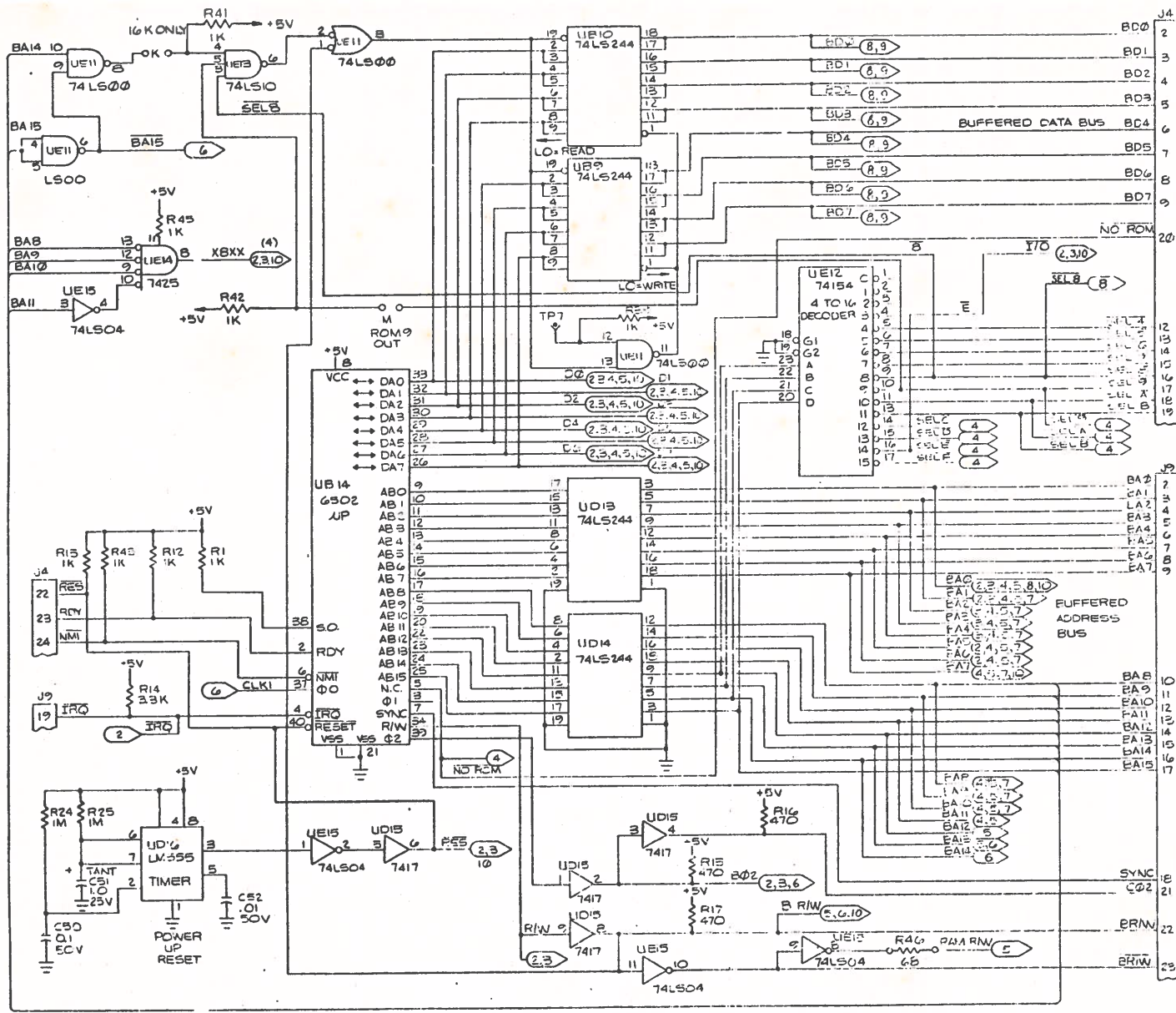
DETAIL C
SCALE: NONE
JUMPER CONFIGURATIONS

-01 THRU -06 SHOWN

ADDRESS	712	DATE	
DESIGNED BY	W. J. ...	DATE	
CHECKED BY		DATE	
APPROVED BY		DATE	
INTERNAL	USED ON	TEST APP	
FRONT			

commadore
PCB ASSY -
UNV. DYNAMIC
PET
SIZE: D 8032090
SCALE 1/11 SHEET 6 of

80 COLUMN COMPUTER



LT#	LINE	DESCRIPTION	DATE	APPROVED
A		PRODUCTION RELEASE	5/2/80	[Signature]
B		REV PER ECO 14.09	5/2/80	[Signature]
C		REV PER ECO 1681	5/2/80	[Signature]

JUN 17 1980
REFERENCE COPY

MEMORY EXPANSION

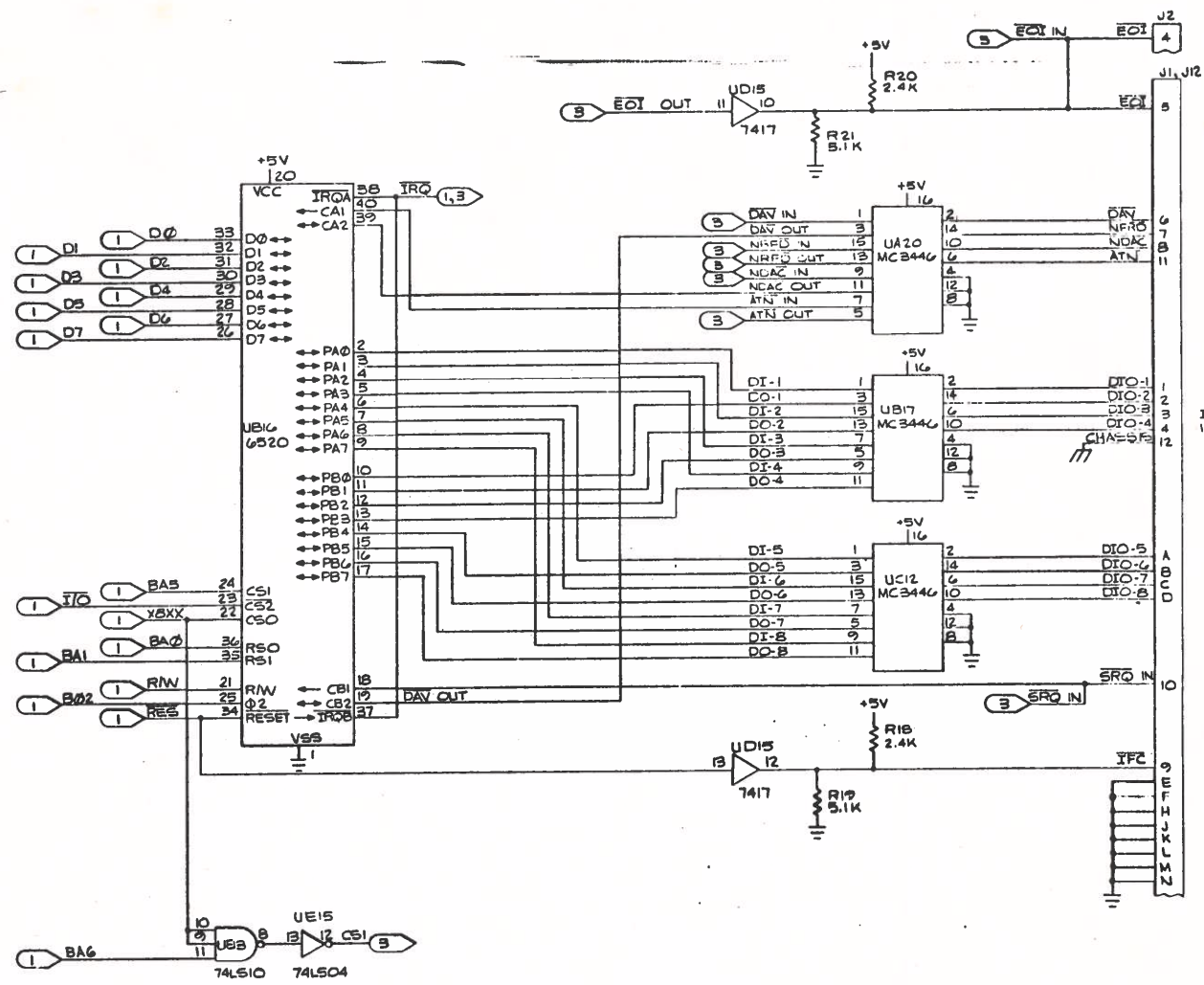
MEMORY EXPANSION

- ALL CAPACITOR VALUES ARE MEASURED IN MICROFARADS.
 - ALL RESISTOR VALUES ARE IN OHMS ±5% AND ARE 1/4 WATT.
- 1 REFER TO ASSEMBLY DRAWING NUMBER 802200C.
- NOTES-UNLESS OTHERWISE SPECIFIED:

CPU & MEMORY EXPANSION

SPLIT & OTHERWISE SPECIFIED		QUANTITY	REMARKS	commodore	
U10	74LS244	1		U10	74LS244
U11	74LS244	1		U11	74LS244
U12	74LS244	1		U12	74LS244
U13	74LS244	1		U13	74LS244
U14	74LS244	1		U14	74LS244
U15	74LS244	1		U15	74LS244
U16	74LS244	1		U16	74LS244
U17	74LS244	1		U17	74LS244
U18	74LS244	1		U18	74LS244
U19	74LS244	1		U19	74LS244
U20	74LS244	1		U20	74LS244
U21	74LS244	1		U21	74LS244
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U27	74LS244	1		U27	74LS244
U28	74LS244	1		U28	74LS244
U29	74LS244	1		U29	74LS244
U30	74LS244	1		U30	74LS244
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U97	74LS244	1		U97	74LS244
U98	74LS244	1		U98	74LS244
U99	74LS244	1		U99	74LS244
U100	74LS244	1		U100	74LS244

REVISIONS		DATE	APPROVED
LTR	ZONE	DESCRIPTION	
		SEE SHEET 1	

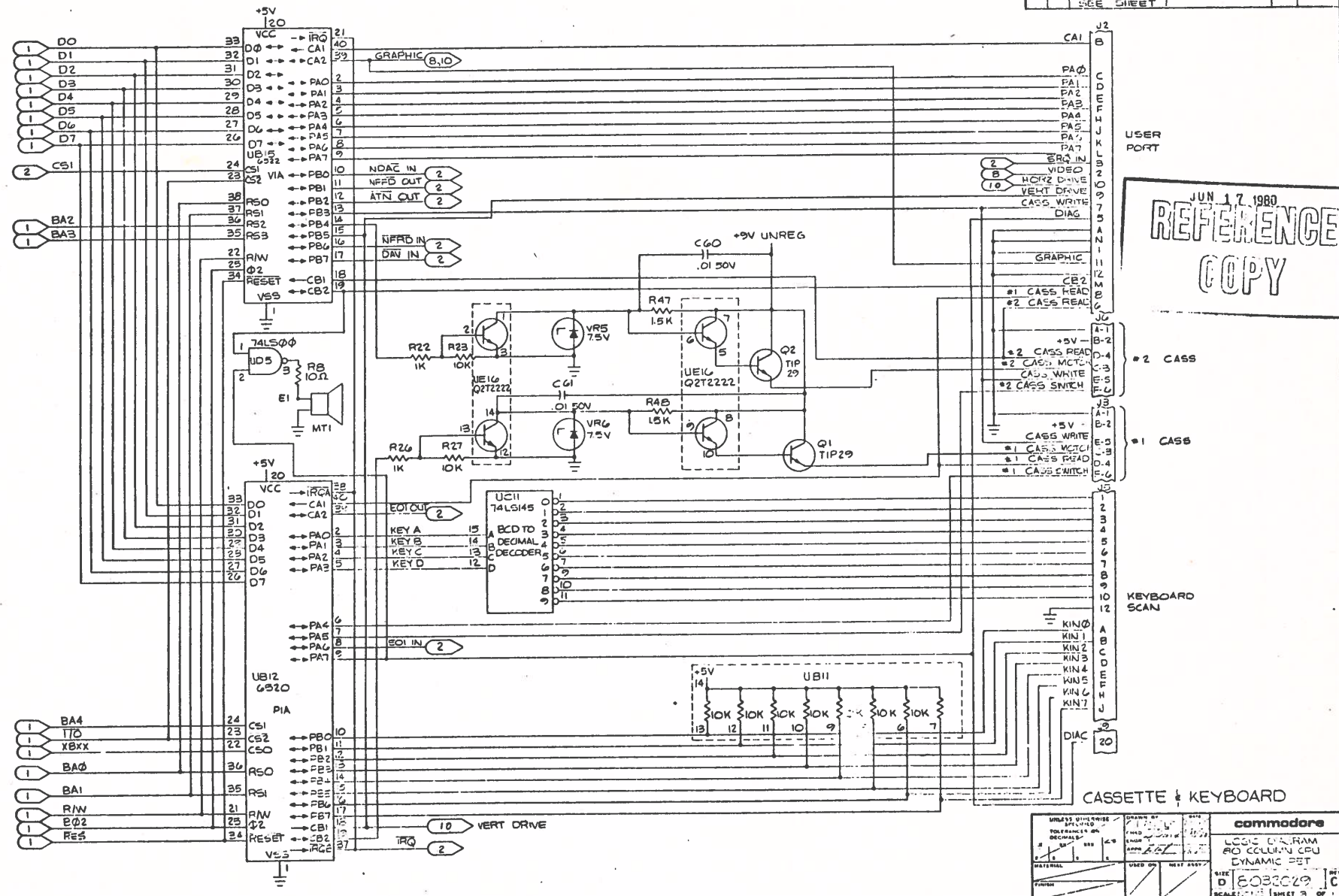


17 1980
**REFERENCE
 COPY**

IEEE-488
 INTERFACE

IEEE-488 INTERFACE

UNLESS OTHERWISE SPECIFIED TOLERANCES ON DECIMALS	DRAWN BY	DATE	COMMODORE
1% 5% 10% 20% 50% 100%	ENG	1980	LOGIC DIAGRAM
MATERIAL	USED ON	TEST ASST	80 COLUMN CPU
POWER			DYNAMIC PET
			SIZE D 502020
			SCALE 1:1 SHEET 1 OF 1



JUN 17 1980
REFERENCE COPY

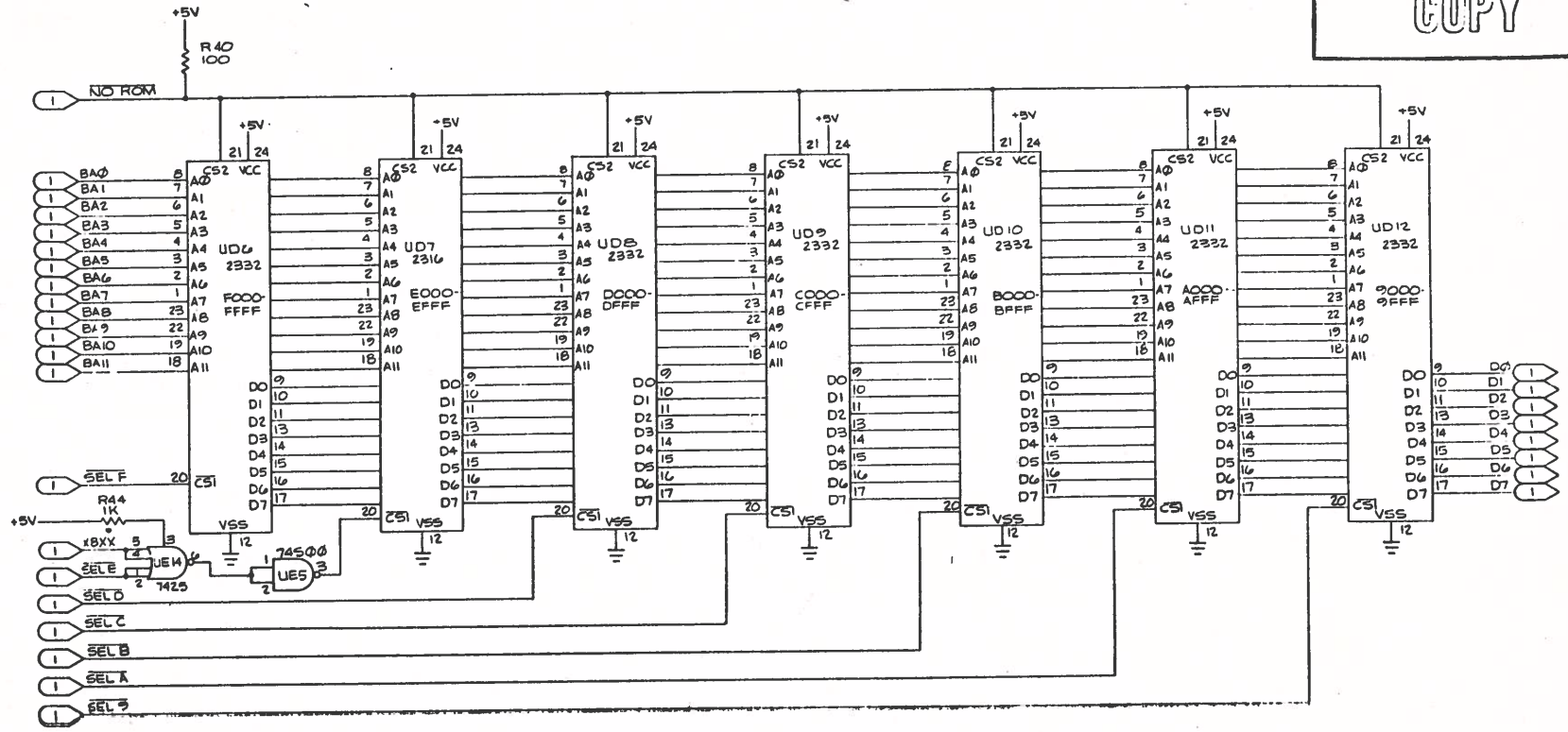
*2 CASS
 *1 CASS

KEYBOARD SCAN

CASSETTE & KEYBOARD

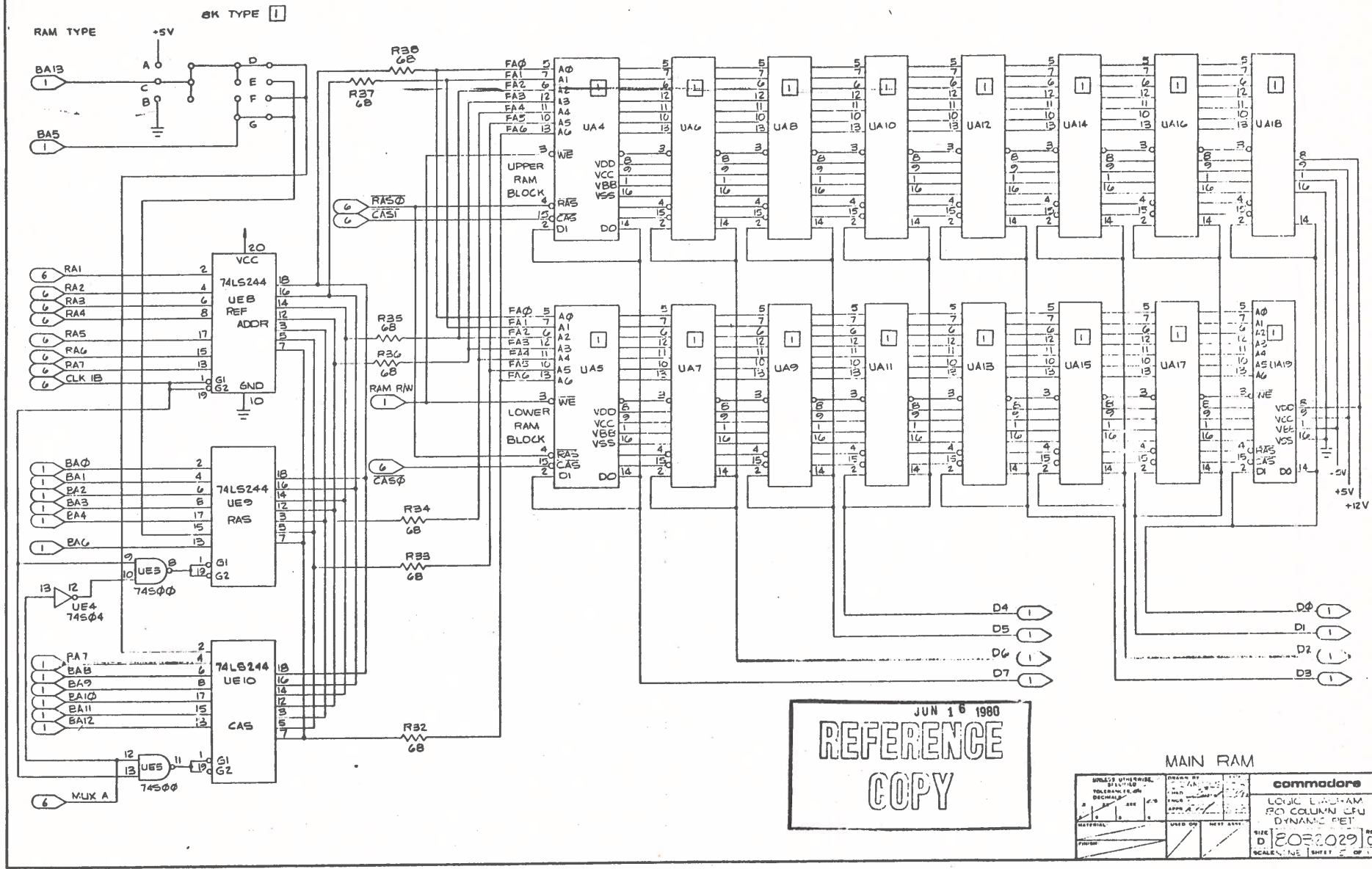
UNLESS OTHERWISE SPECIFIED, TOLERANCES ON DECIMALS ARE:	GRAND TOTAL	DATE	commodore LOGIC DIAGRAM 64 COLUMN CPU DYNAMIC PET
RESISTORS: 1% CAPACITORS: 5%	PIPED 10/29	10/29	
MATERIAL	USED ON	NEXT ASSY	SIZE D SCALE: 1:1 SHEET 3 OF 1

JUN 17 1980
**REFERENCE
COPY**



ROMS

UNLESS OTHERWISE SPECIFIED	DESIGNED BY	DATE	commodore LOGIC DIAGRAM 80 COLUMN CPU DYNAMIC FET
DECIMALS	CHKD BY	1980	
MATERIAL	USED ON	REV. ASSY	SIZE D 802029 IC SCALE 1/8" = 1" SHEET 4 OF 10



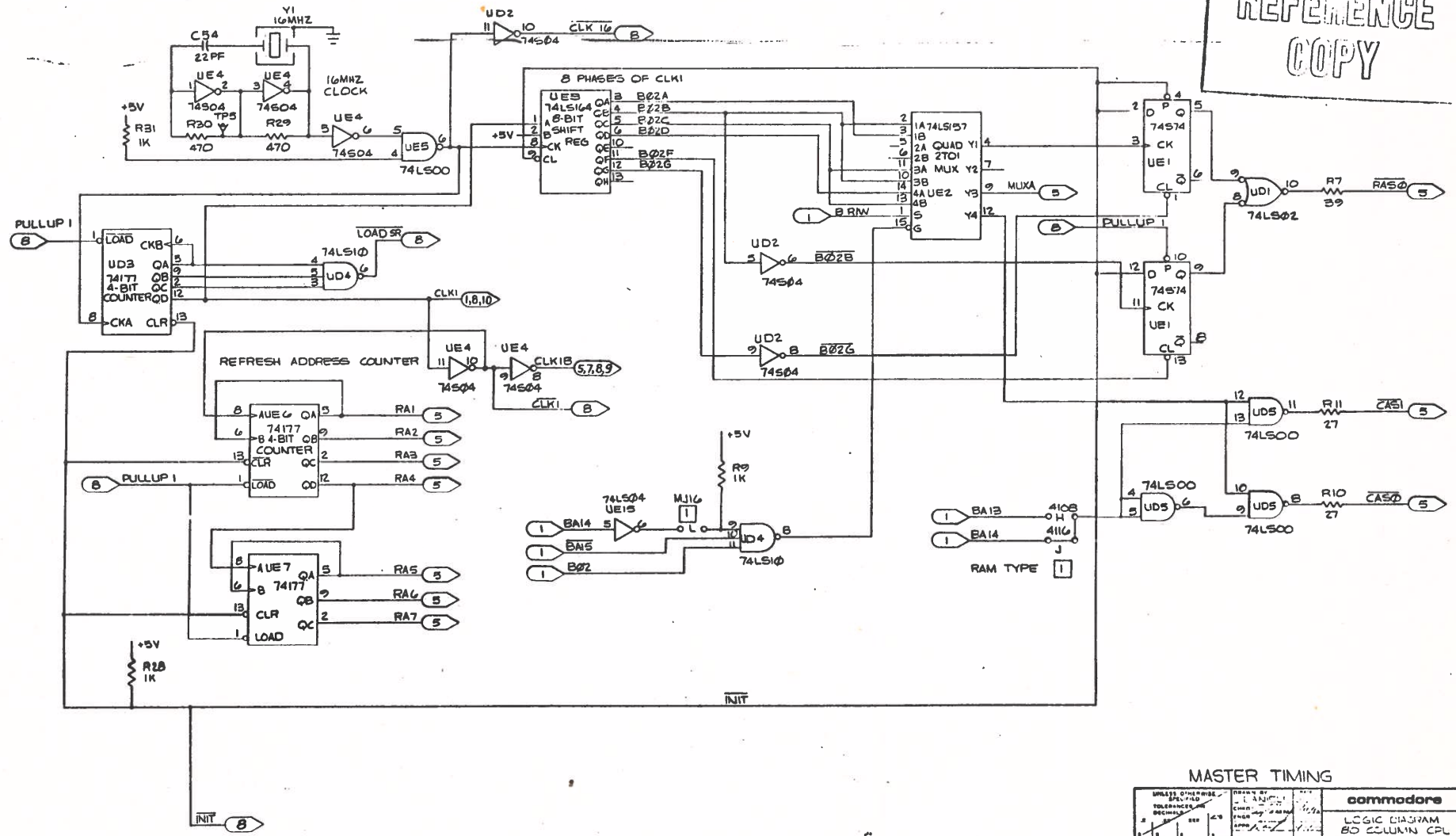
JUN 16 1980
REFERENCE
COPY

MAIN RAM

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETERS.	DATE	REV	BY
SCALE: 1:1			
commodore			
LOGIC BOARD - RAM			
(30 COLUMN) CPU			
DYNAMIC RET			
SIZE: D		REV: 2032029	
SCALE: 1:1		SHEET 5 OF 5	

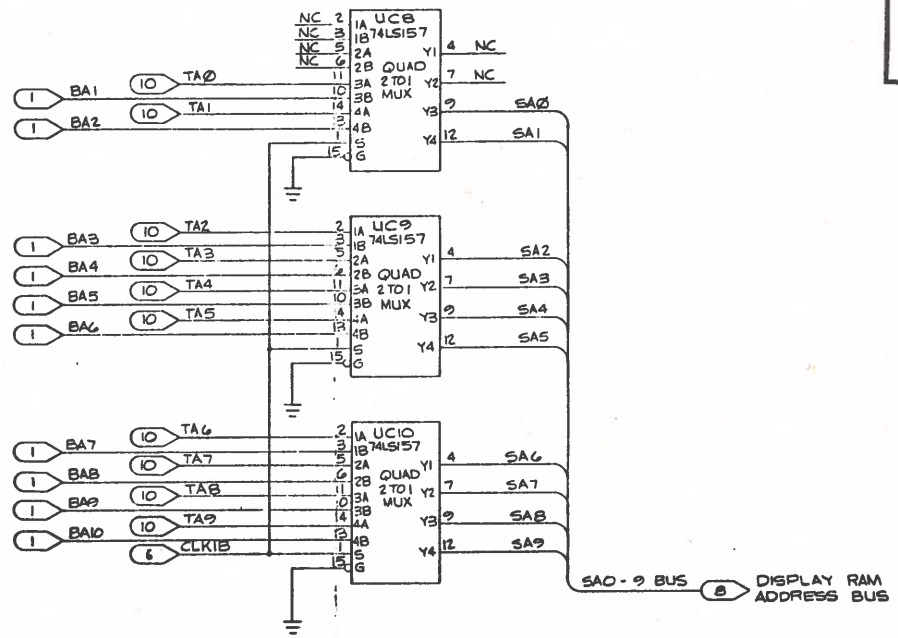
REVISIONS			
LTR	DATE	DESCRIPTION	APPROVED
		SEE SHEET 1	

REV 1.6 1980
REFERENCE COPY



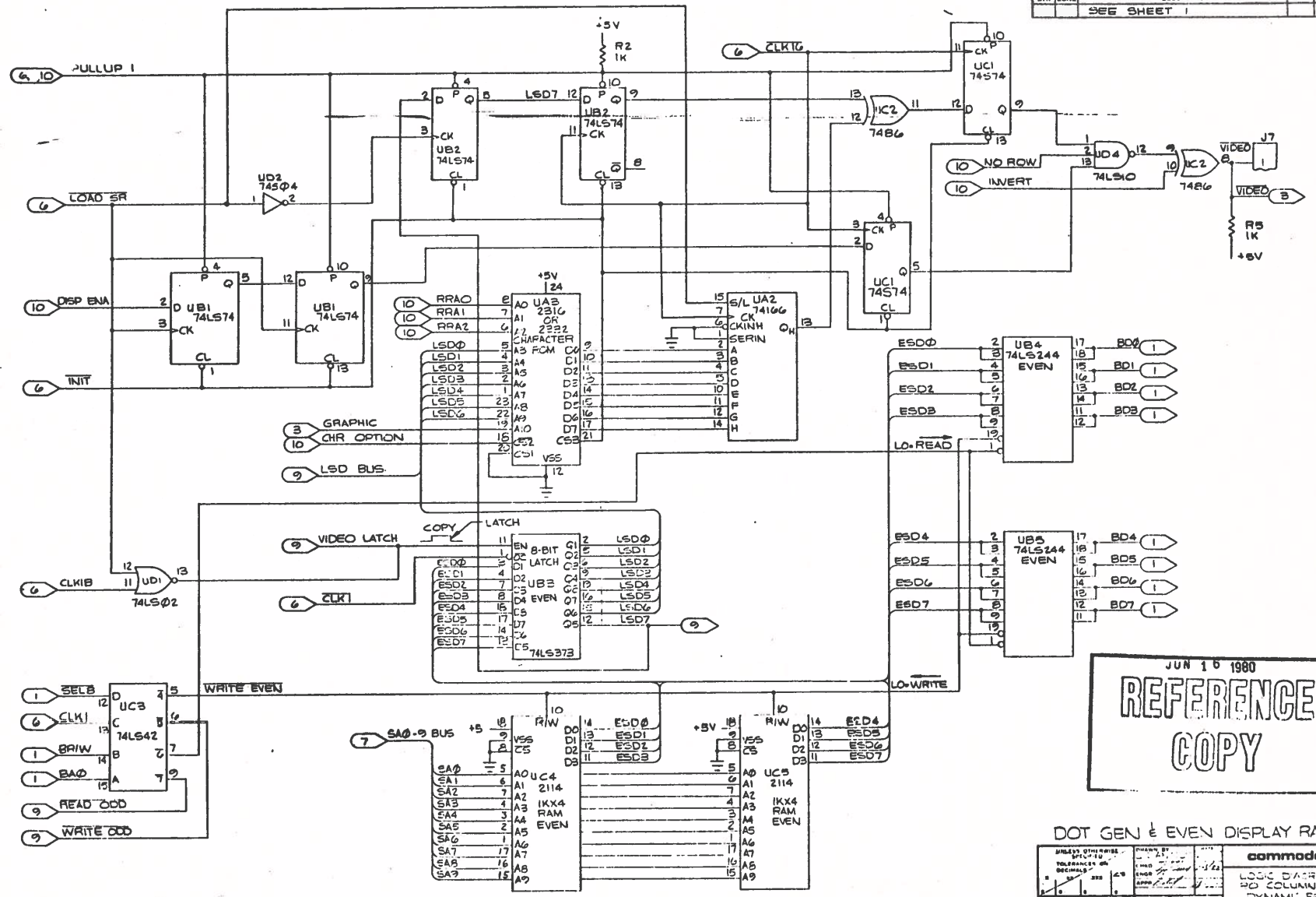
MASTER TIMING			
UNLESS OTHERWISE SPECIFIED	UNLESS OTHERWISE SPECIFIED	commodore	
RESISTANCE	RESISTANCE	LOGIC DIAGRAM	
INDUCTANCE	INDUCTANCE	80 COLUMN CPL	
CAPACITANCE	CAPACITANCE	DYNAMIC PLOT	
SCALE 1:1	SCALE 1:1	SIZE	D 8032029
		SHEET	OF

JUN 16 1980
**REFERENCE
 COPY**



DISPLAY ADDRESS MUX

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DECIMALS ARE IN THIRDS FRACTIONS ARE IN SIXTEENTHS	CHANGE FROM DATE BY	commodore LOGIC DIAGRAM 80 COLUMN CPU DYNAMIC PET
MATERIAL	USED ON	NEXT ASSEMBLY
SIZE D 8032029 C SCALE 1:1 SCALE SHEET 7 OF 8		100% 100% 100%



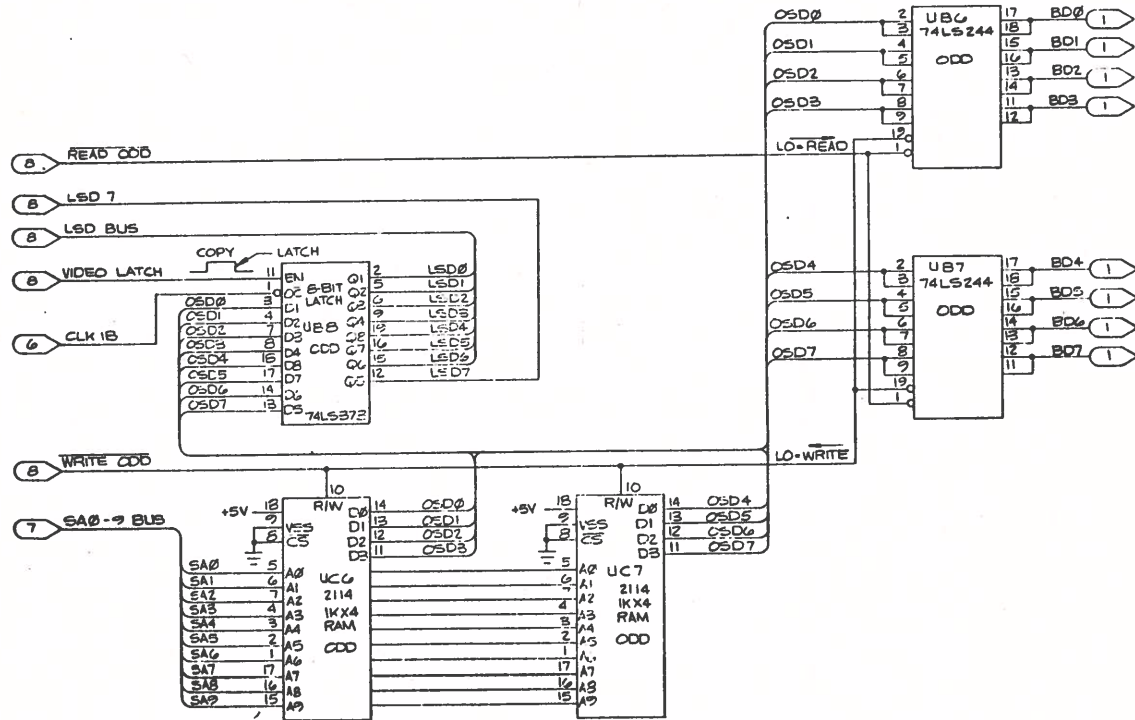
JUN 16 1980
**REFERENCE
 COPY**

DOT GEN & EVEN DISPLAY RAMS

UNLESS OTHERWISE SPECIFIED		DRAWN BY		DATE	
TOLERANCES UNLESS OTHERWISE SPECIFIED	0.1	NAME	DATE	SCALE	NO.
INTERNAL		USED ON	DATE		
COMMODORE LOGIC DIAGRAM 40 COLUMN CPU DYNAMIC PET			SIZE D 5082029		
SCALE 1:1 SHEET 2 OF 2					

REVISIONS				
LTR	ZONE	DESCRIPTION	DATE	APPROVED
		SEE SHEET 1		

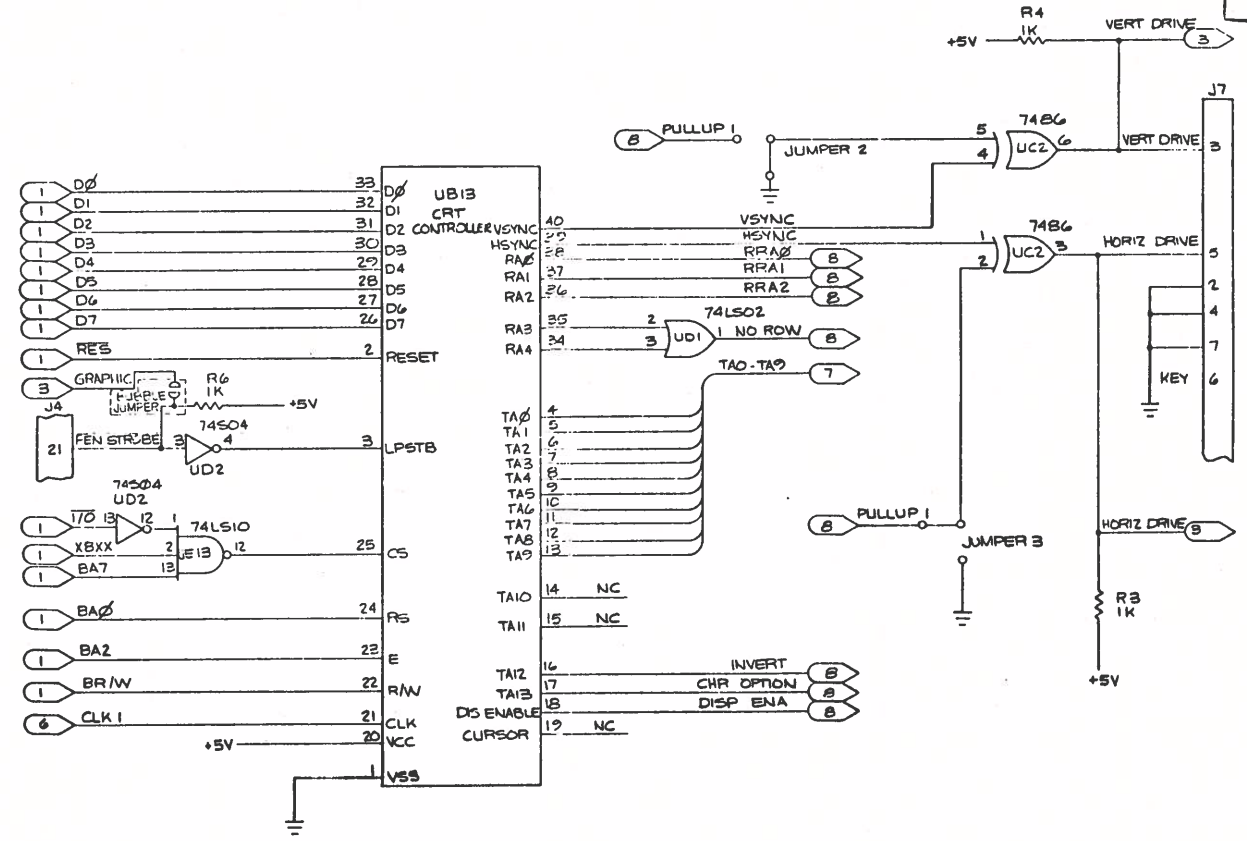
JUN 13 1980
**REFERENCE
 COPY**



ODD DISPLAY RAMS

DESIGNED BY		CHECKED BY		DATE	
<p>commodore</p> <p>LOGIC DIAGRAM SO COLUMN CPU DYNAMIC RST</p> <p>SIZE D 1602029 SCALE 1:1</p>					

JUN 13 1980
REFERENCE COPY

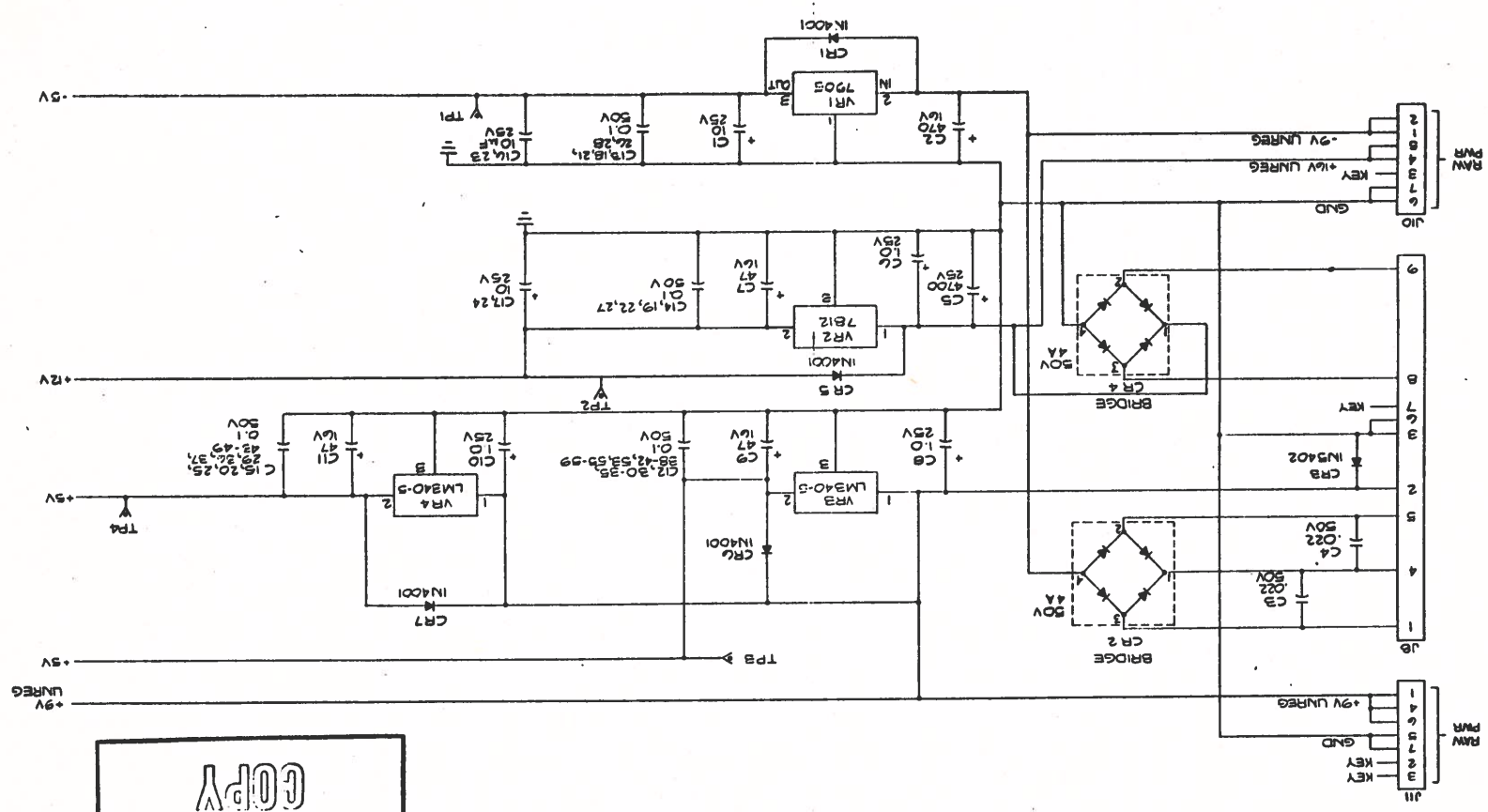


CRTC AND SYNC BUFFERS

UNLESS OTHERWISE SPECIFIED		MATERIAL		FINISH	
TOLERANCE	DECIMALS	USED ON	NEXT ASSY		
±					
commodore					
LOGIC & ANAM EQ COLUMN CPU DYNAMIC TEST					
REV D 80E2009					
SCALE: 1:1 SHEET 1 OF 1					

TITLE: VOLTAGE REGULATOR
 PROJECT: LOGIC DISPLAY
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 DATE: 03/20/79
 SCALE: N/A
 SHEET: 11 OF 11

VOLTAGE REGULATOR



REFERENCE
 JUN 13 1980
 COPY

REV	DESCRIPTION	DATE	APPROVED

SEE SHEET 1

PART NO.	DESCRIPTION
8032030-01	80 COLUMN CPU, DYNAMIC PET, 32 K
↑ -02	↑ ↑ , 16 K
-03	↑ ↑ , 16 K
-04	↑ ↑ , 16 K
↓ -05	↓ ↓ , 16 K
8032030-06	80 COLUMN CPU, DYNAMIC PET, 16 K

REVISIONS				
LTR	ZONE	DESCRIPTION	DATE	APPROVED
A		PRODUCTION RELEASE	3/6/80	B. Robinson
B		REV PER ECO 1597	3/11/80	
C		REV PER ECO 1656	3/23/80	
D		REV PER ECO 1678	3/24/80	
E		REV PER ECO 1689	3/24/80	
F		REV PER ECO 1706	3/27/80	
G		REV PER ECO 1808	8-5-80	K. ...
H		REV PER ECO 1839	7-8-80	B. Robinson

8. FOR ITEMS 36 AND 37, ALL ASSEMBLIES MUST HAVE SAME VENDOR (DASH NO. MAY VARY.

7. SOLDER JUMPER, ITEM 109 FROM E1 TO SILVER CONTACT ON MT1, ITEM 80; TAKE CARE TO ALLOW NO MORE THAN ONE SECOND DURATION FOR APPLICATION OF HEAT DURING SOLDERING.

- 6. SOLDER AT 3 PLACES, EQUALLY SPACED AROUND THE BRASS BASE MT1 (ITEM 80)
- 5. RUBBER STAMP APPROPRIATE DASH NO. APPROX. WHERE INDICATED.
- 4. FOR ACCEPTABLE SUBSTITUTE, REFER TO PARTS LIST.
- 3. ON -02 CONFIGURATION, REFER TO PARTS LIST FOR CORRECT POSITIONS OF ITEM 36.
- 2. ITEMS 42 AND 43 ARE USED AS SPARES.

1. SHEET 5 OF 5 SIZE D
ASSY DWG

NOTES- UNLESS OTHERWISE SPECIFIED:

commodore	TITLE: PCB ASSEMBLY - 80 COLUMN CPU, DYNAMIC PET	DRAWN BY	DATE	ENGR	3/6/80	SIZE	DRAWING NUMBER	
		CHKD	3/5/80	APPR	3/21/80	B	8032030	
							SHEET	1 OF 5

QUANTITY REQD PER PART / DASH NO.							ITEM	DS	PART NUMBER	DESCRIPTION	REF DES	BEND	NOTES
							1	D	8032029-01	LOGIC DIAGRAM-80 COL CPU, DYNAMIC PET			
							2						
							3	D	8032031-01	PCB FAB-80 COL CPU, DYNAMIC PET			
							4						
							5	B	901435-01	IC, 6502 MPU	UB14		
							6	B	901436-01	IC, 6520 PIA	UB16, UB12		
							7	B	901437-01	IC, 6522 VIA	UB15		
							8	B	901479-01	IC, CRT CONTROLLER	UB13		
							9						
							10	B	901521-01	IC, 74LS00 NAND GATE	UE11, UD5		
							11	B	901525-04	74LS00 NAND GATE, SCHOTTKY	UE5		
							12	B	901521-21	74LS02 NOR GATE	UDI		
							13	B	901521-02	74LS04 HEX INV.	UE15		
							14	B	901525-01	IC, 74S04 HEX INV., SCHOTTKY	UD2, UE4		
							15	B	901521-13	74LS244 OCTAL BUFFERS	UB4-UB7, UB9, UB10, UD13, UDI4, UE8, UE9, UE10		
							16	B	901521-24	IC, 74LS10 NAND GATE	UD4, UE13		
							17	B	901522-01	7417 HEX BUFFER	UD15		
							18	B	901522-20	7425 NOR GATE	UE14		
							19	B	901521-11	74LS157 DATA SELECTOR	UC8-UC10, UE2	ITEM 27 MAY BE USED AS A SUBSTITUTE	
							20	B	901521-17	74LS42 BCD DECODER	UC3		
							21	B	901521-06	74LS74 FLIP-FLOP	UB1, UB2		
							22	B	901525-09	74S74 FLIP-FLOP, SCHOTTKY	UC1, UE1		
							23	B	901522-18	7486 EX-OR GATE	UC2		
							24	B	901521-29	74LS373 OCTAL D-TYPE LATCH	UB3, UB8		
							25	B	901521-09	74LS145 BCD TO DECIMAL DECODER	UC11		
							26	B	901522-13	74154 4-16 LINE DECODER	UE12		
							27	B	901522-23	74157 DATA SELECTOR		UC8-UC10, UE2	
							28	B	901521-28	74LS164 8-BIT PARALLEL OUTPUT	UE3	ITEM 30 MAY BE USED AS A SUBSTITUTE	
							29	B	901522-03	74177 4-BIT CTR	UD3, UE6, UE7		
							30	B	901522-27	74164 8-BIT PARALLEL OUTPUT		UE3	
							31	B	901522-28	74166 8-BIT REGISTER	UA2		
							32	B	901470-04	5298-A DYNAMIC PET RAM	UA4-UA19		
							33	B	901470-02	4108-30 DYNAMIC PET RAM	UA4-UA19		
							34	B	901470-03	4108-31 DYNAMIC PET RAM	UA4-UA19		
							35	B	901453-02	2114 4K STATIC RAM	UC4-UC7		
							36	B	901470-01	4116 RAM DYNAMIC	UA4-UA19 -01 ; UA5, UA7, UA9, UA11, UA13, UA15, UA17, UA19 -02		
							37		901470-05	IC, 5298-B DYNAMIC PET RAM	UA4-UA19		

commodore

TITLE: PCB ASSEMBLY -
80 COLUMN CPU, DYNAMIC PET

DRWN BY: *[Signature]*
CHKD: *[Signature]*

DATE

ENGR:

DATE

SIZE

B

8032030

REV

H

SHT

2 / 5

QUANTITY REQD PER PART / DASH NO.						ITEM	DS	PART NUMBER	DESCRIPTION	REF DES	BEND	NOTES
	06	07	04	03	02							
							38	B	901465-22	IC, 2332 ROM (F000-FFFF)	UD6	
							39	B	901465-21	2332 ROM (D000-DFFF)	UD8	
							40	B	901465-20	2332 ROM (C000-CFFF)	UD9	
							41	B	901465-23	2332 -120 ROM (B000-BFFF)	UD10	
							42			2332 ROM (A000-AFFF)	UD11	SPARE
							43			2332 ROM (9000-9FFF)	UD12	SPARE
							44	B	901474-03	2316 ROM (E000-EFFF)	UD7	
							45	B	901447-10	IC, 2316 ROM	UA3	
							46					
							47	B	901523-01	IC, LM555 TIMER	UD16	
							48	B	901524-01	IC, MC3446 INTERFACE BUS	UA20, UB17, UC12	
							49	B	900462-21	CAP, CERAMIC AXIAL 22 pF 50V	C54	ITEM 55 MAY BE USED AS A SUBSTITUTE
							50	B	900109-03	CAP, LOW LEAK. ELECTROLYTIC, 10 uF 25V	C1, 16, 17, 23, 24	ITEM 73 MAY BE USED AS A SUBSTITUTE FOR C1
							51	B	900100-44	CAP, ELECTROLYTIC 470 uF 16V	C2	
							52	B	900100-45	CAP, ELECTROLYTIC 4700 uF 25V	C5	
							53	B	900101-37	CAP, ELECTROLYTIC 47 uF 16V	C7, 9, 11	
							54	B	900110-07	CAP, LOW LEAK. ELECT. 1 uF 50V	C6, 8, 10, 51	ITEM 59 OR 74 MAY BE USED AS A SUBSTITUTE
							55	B	900010-42	CAP, CERAMIC DISK 22 pF	C54	C54
							56	B	900461-16	CAP, CERAMIC AXIAL .01 uF 50V	C52, 60, 61	
							57	B	900461-20	CAP, CERAMIC AXIAL .022 uF 50V	C3, 4	
							58	B	900461-28	CAP, CERAMIC AXIAL .1 uF 50V	C12-15, 18-22, 25-50, 53, 55-59	
							59	B	900402-13	CAP, TANTALUM 1.0 uF 35V		SUBSTITUTE FOR ITEM 54. C6, 8, 10, 51
							60	B	901550-01	RESISTOR, CARBON 1/4 W ±5% 1K Ω	R1-6, 9, 12, 15, 22, 26, 28, 31, 39, 41-45	
							61	B	901550-02	3.3K Ω	R14	
							62	B	901550-03	5.1K Ω	R19, 21	
							63	B	901550-20	10 K Ω	R23, 27	
							64	B	901550-49	100 Ω	R40	
							65	B	901550-58	470 Ω	R13, 16, 17, 30, 29	
							66	B	901550-64	10 Ω	R8	
							67	B	901550-72	1 K Ω	R11, 17	
							68	B	901550-84	1 M Ω	R25, 34	
							69	B	901550-85	2.4 K Ω	R18, 20	
							70	B	901550-90	27 Ω	R10, 11	
							71	B	901550-93	39 Ω	R7	
							72	B	901550-94	RESISTOR, CARBON 1/4 W ±5% 68 Ω	R32-38, 46	
							73		900402-15	CAP, TANTALUM 10 uF, 25V		C1
							74	B	900101-35	CAP, ELECTROLYTIC 1 uF 25V		SUBSTITUTE FOR ITEM 54. C6, 8, 10, 51

commodore

TITLE: PCB ASSEMBLY -
80 COLUMN CPU, DYNAMIC PET

DRWN BY: *J. P. ...*
CHKD: *M. P.*

DATE: _____ ENGR: _____
DATE: _____ APPR: *2/17/80*

SIZE: B 8032030

REV: H SHT: 3/5

QUANTITY REQD PER PART / DASH NO.							ITEM	DS	PART NUMBER	DESCRIPTION	REF DES	BEND	NOTES	
				05	04	03	02	01	75	B	902419-66	RES NETWORK, DIP 14 PIN 10 K Ω	UB11	
									76					
				2	2	2	2	2	77	B	902653-01	TRANSISTOR, NPN TIP29	Q1,2	
									78					
				1	1	1	1	1	79	B	902550-01	TRANSISTOR PACK Q2T2222	UE16	
				1	1	1	1	1	80	B	907300-02	TRANSDUCER-PIEZO ACOUSTIC	MT 1	
				2	2	2	2	2	81	B	900941-01	DIODE, ZENER 7.5 V	VR5,6	
				4	4	4	4	4	82	B	900750-01	DIODE, IN4001	CR1,5-7	
				1	1	1	1	1	83	B	900753-01	DIODE, IN5402 3A/200V	CR3	
				2	2	2	2	2	84	B	900757-01	DIODE BRIDGE 4A/50 V	CR2,4	ITEM 96 MAY BE USED AS A SUBSTITUTE
				5	5	5	5	5	85	B	900756-01	DIODE BRIDGE 1.5A/50 V		MAY BE USED AS A SUBSTITUTE FOR CR4
				1	1	1	1	1	86	B	901527-03	VOLTAGE REGULATOR, 7905, -5V/1A	VR1	TO-220
				2	2	2	2	2	87	B	901528-03	VOLTAGE REGULATOR, LM340-5, +5 V/1.5 A	VR3,4	TO-3; ITEM 89 MAY BE USED AS A SUBSTITUTE
				1	1	1	1	1	88	B	901528-04	VOLTAGE REGULATOR, 7812, +12V/1A	VR2	TO-3
				5	5	5	5	5	89	B	901528-01	VOLTAGE REGULATOR, LM323		VR3,4
				1	1	1	1	1	90	B	900557-01	CRYSTAL 16 MHZ	Y1	
				5	5	5	5	5	91		902570-01	VOLTAGE REGULATOR, 7905		TO-92; MAY BE USED AS A SUB. FOR ITEM 86
				2	2	2	2	2	92	B	904777-06	DIP SHUNT 6 PIN		
									93					
				8	8	8	8	8	94	B	904150-04	SOCKET, IC LOW PROFILE 24 PIN	UAB UDB UDC UDE	
				5	5	5	5	5	95	B	904150-06	SOCKET, IC LOW PROFILE 40 PIN	UE12 THRU UE16	
				5	5	5	5	5	96		900757-02	DIODE, BRIDGE 4A/50 V		CR2,4
				1	1	1	1	1	97	B	903326-07	HEADER ASSY .100 CENTER	J10	7 PIN, REMOVE PIN 3 AT ASSEMBLY
				2	2	2	2	2	98	B	903345-25	HEADER ASSY, DUAL ROW, .100 CENTER	J4,9	50 PIN
				1	1	1	1	1	99	B	903316-09	HEADER ASSY .156 CENTER	J8	9 PIN, REMOVE PIN 7 AT ASSEMBLY
				1	1	1	1	1	100	B	903331-07	HEADER ASSY, POLARIZED, .100 CENTER	J11	7 PIN, REMOVE PIN 3 AT ASSEMBLY
				1	1	1	1	1	101	B	903331-07	HEADER ASSY, POLARIZED, .100 CENTER	J7	7 PIN, ORIENT OMITTED PIN TO PIN 6 POSITION
				1	1	1	1	1	102	B	903331-20	HEADER ASSY, POLARIZED, .100 CENTER	J5	20 PIN, ORIENT OMITTED PIN TO PIN 19 POSITION
									103					
				1	1	1	1	1	104	P	320269-01	HEAT SINK	VR2,3,4	UNDER VR2,3,4
				1	1	1	1	1	105	B	904907-01	HEAT SINK, COMPOUND THERMAL		
				6	6	6	6	6	106	B	906403-19	RIVET, DOME HEAD, OPEN END		
				2	2	2	2	2	107	B	906404-04	RIVET, DOME HEAD, CLOSED END		
									108					
				1	1	1	1	1	109		903780-01	#30 WIRE WRAP WIRE, RED		
				1	1	1	1	1	110		320086-01	BUS WIRE		ITEM 111 MAY BE USED AS A SUB. PART
				5	5	5	5	5	111		320086-02	BUS WIRE		

commodore

TITLE: PCB ASSEMBLY -
80 COLUMN CPU, DYNAMIC PET

DRWN BY: *[Signature]*
CHKD: *[Signature]*

DATE: _____

ENGR: _____

DATE: _____

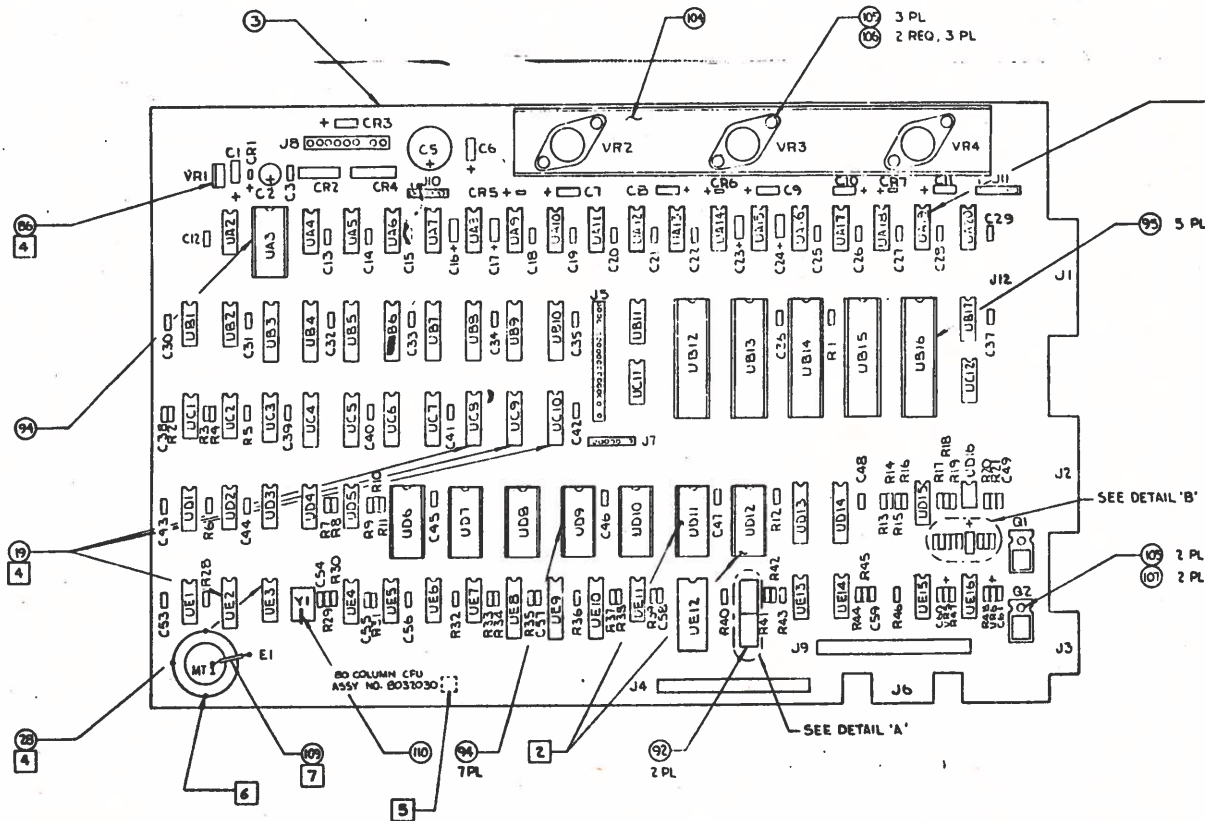
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B 8032030

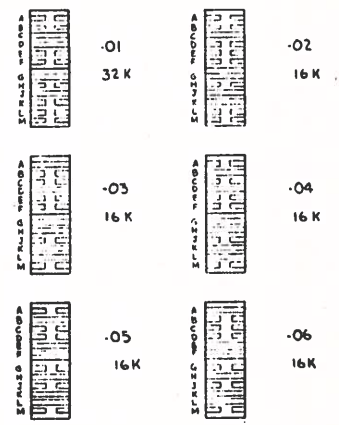
REV H

SHT 5

LTRA ZONE		REVISIONS	DATE	APPROVED
SEE SHEET 1		DESCRIPTION		

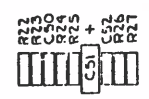


- ① -01, 16 PL
- ② -02, 8 PL
- ③ -03 ONLY, 16 PL
- ④ -04 ONLY, 16 PL
- ⑤ -05 ONLY, 16 PL
- ⑥ -06 ONLY, 16 PL



DETAIL 'A'
(SCALE: NONE)
JUMPER CONFIGURATIONS

-01 THRU -06 SHOWN



DETAIL 'B'
(SCALE: 2/1)

UNLESS OTHERWISE SPECIFIED, TOLERANCES ON DIMENSIONS ARE:		DESIGN BY	DATE
FRAMES	±.005		
OTHER	±.010		
MATERIAL		REVISED BY	DATE
3016			
SCALE 1:1		SHEET 5 OF 5	
commodore			
CPU ASSEMBLY - 80320 CPU (DRAMIC SET)			
SIZE D	9032030	REV H	