

digital

LA180

Engineering Drawings

Digital Equipment Corporation

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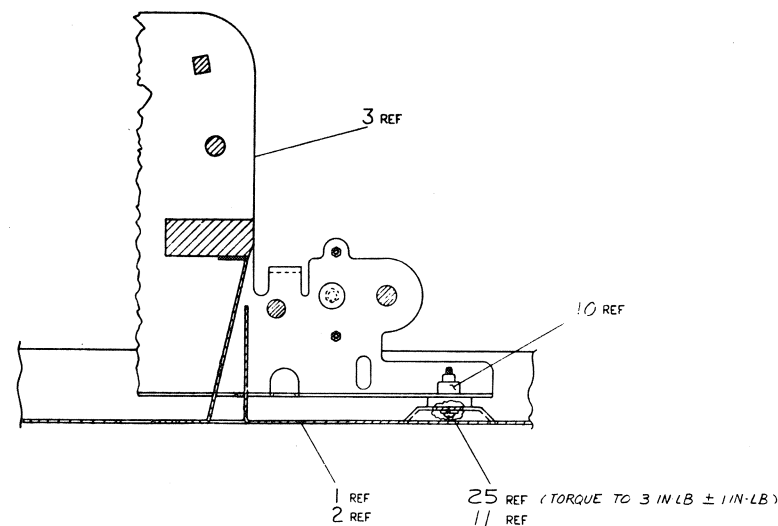
B-DD-LA180 (SHEET1)
E-UA-LA180-0-0
A-PL-LA180-0-0
D-CS-5411023-0-1
D-CS-5411021-0-1
D-CS-5410991-0-1
D-CS-5411049-0-1
D-CS-5411653-0-1
D-IC-7011167-0-0
A-SP-3700131-0-0
B-DD-LAXX-KB
B-DD-LAXX-LD
B-DD-LAXX-KJ

[illegible]

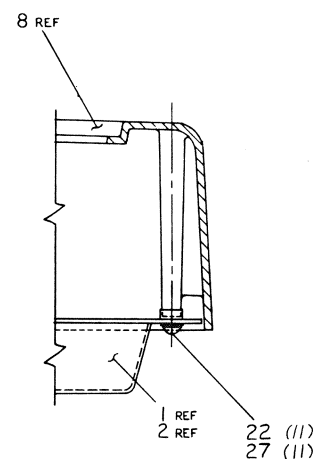
REVISIONS		CHG. NO.		REV		DATE		USED ON OPTION/MODEL		DRN.		DATE		TITLE	
		LA180-22		B		2-76				A. TAYLOR		11/2/74		DECRYPTER DRAWING	
		LA180-42		C		5-76				CHK'D.		DATE			
		LA180-68		D		8-76				A. TAYLOR		6/18/75		DIRECTORY	
		LA180-PN084		E		12-76				PROJ. ENG.		DATE			
										B. STELTZER		6/17/75			
										PROD.		DATE		SIZE CODE NUMBER REV	
										R. JODOIN		6/18/75		B DD LA180-0 E	
										FIELD SERV.		DATE		DIST	
										T. MONELLO		6/23/75			
										SHEET 1 OF 7					

FIRST USED ON OPTION MODEL LA 180				QTY.		DESCRIPTION		PART 7.3.		ITEM NO.	
DIMENSIONAL TOLERANCE				PARTS LIST							
DIMENSIONS ARE <u>SMITH TUBE</u>				DRN. <i>Hand</i>		DATE <i>9-2-78</i>					
UNLESS OTHERWISE SPECIFIED				CITY <i>LA</i>		CITY <i>LA</i>					
MILLIMETERS		INCHES		ENG. <i>LA</i>		DATE <i>9-2-78</i>		TITLE			
A-2X ±0.10		JXX ±.006		PORT. ENG. <i>LA</i>		DATE <i>9-2-78</i>		LA 130			
B-2X ±0.05		K ±.02		CITY <i>LA</i>		DATE <i>9-2-78</i>		UNIT ASSY			
C-2X ±0.10		N ±.01		CITY <i>LA</i>		DATE <i>9-2-78</i>					
THIRD ANGLE PROJECTION				REMOVE MOUNTS AND BREAK SHARP CORNERS TO SURFACE QUALITY ✓				NEXT HIGHER ASSY.			
				SEE PARTS LIST 8-00-LA180-φ SCALE NONE				SIZE CODE EUA LA 18 7-00		REV.	

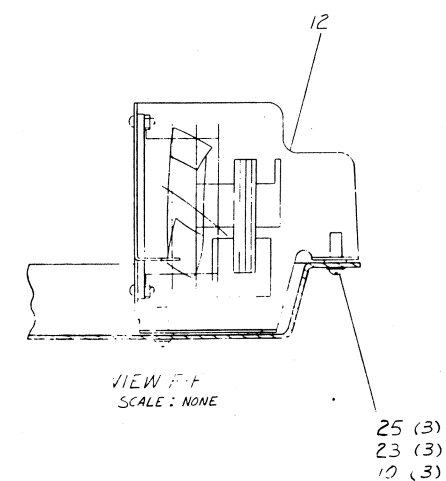
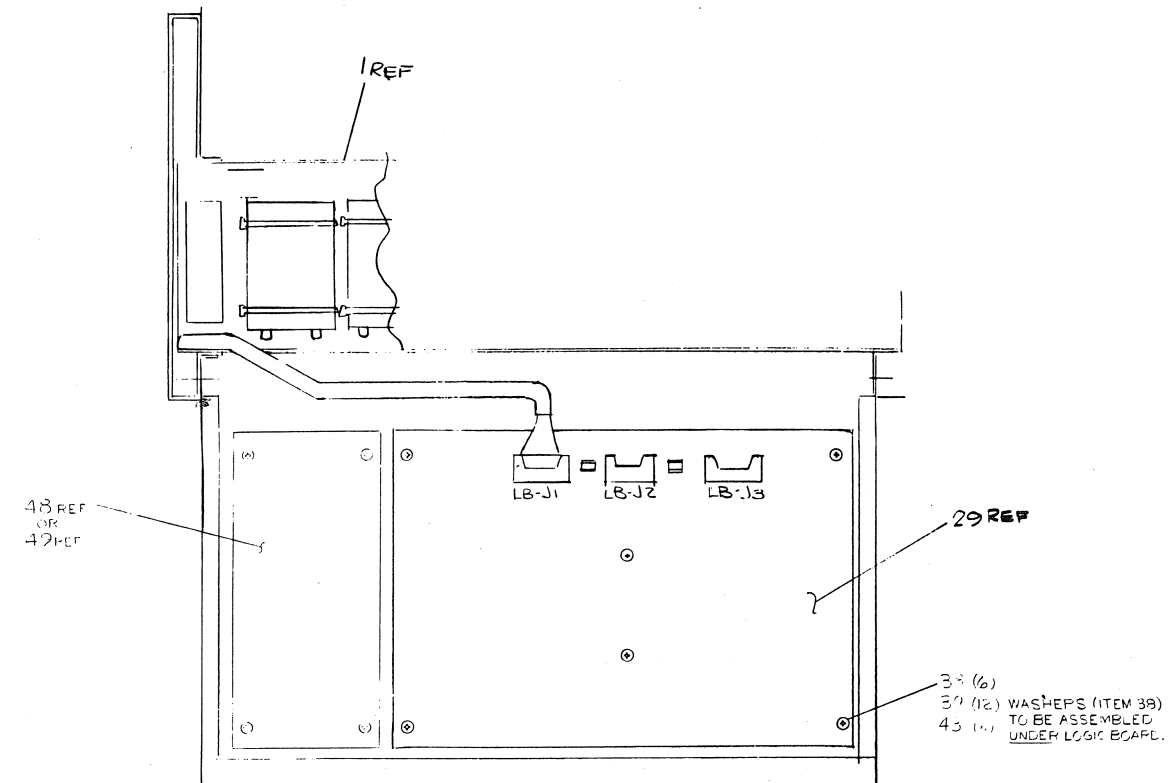
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SECTION A-A
SCALE: 1/1



SECTION C-C
SCALE: 1/1

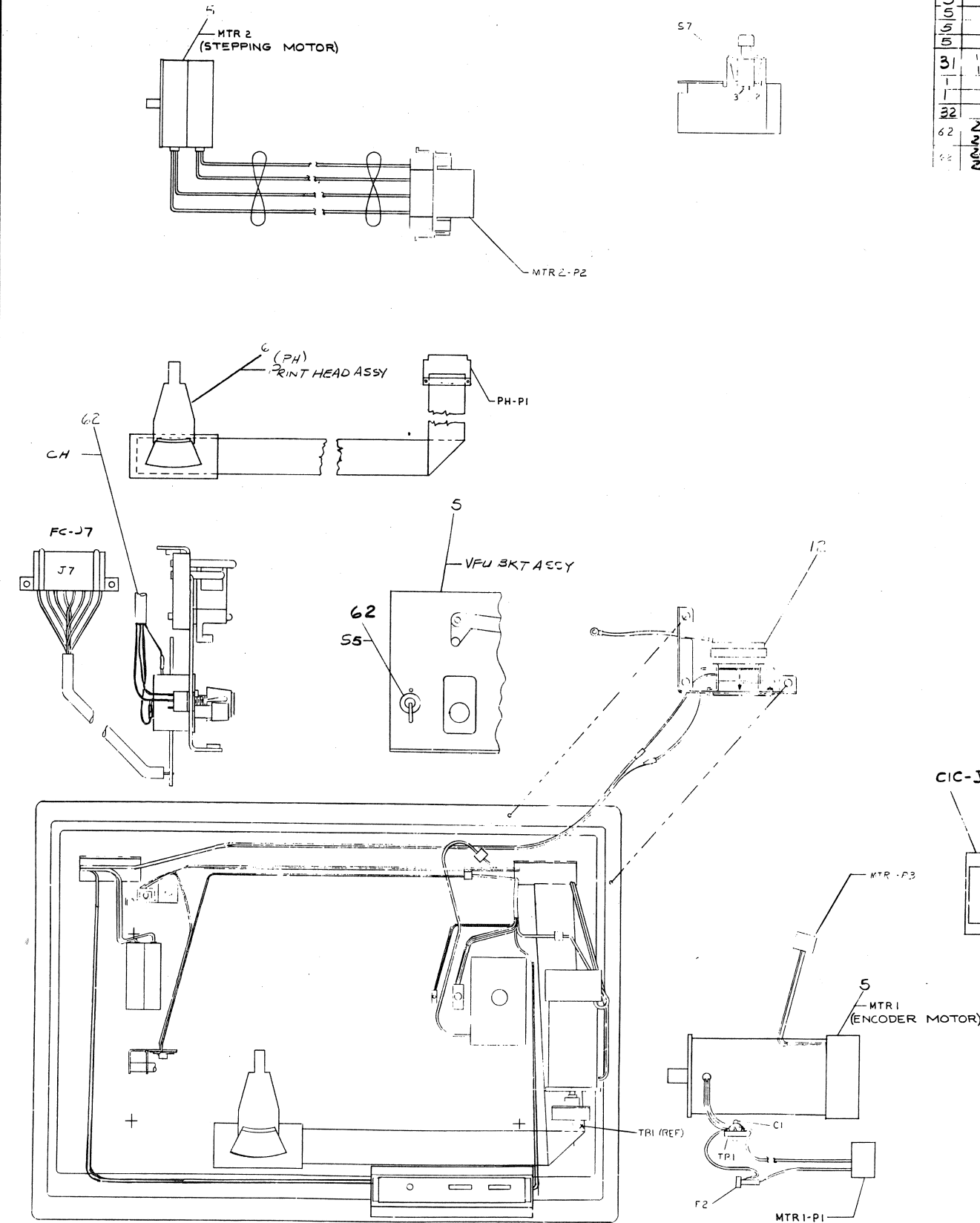


REVISIONS		
CHK	CHANGE NO.	REV.

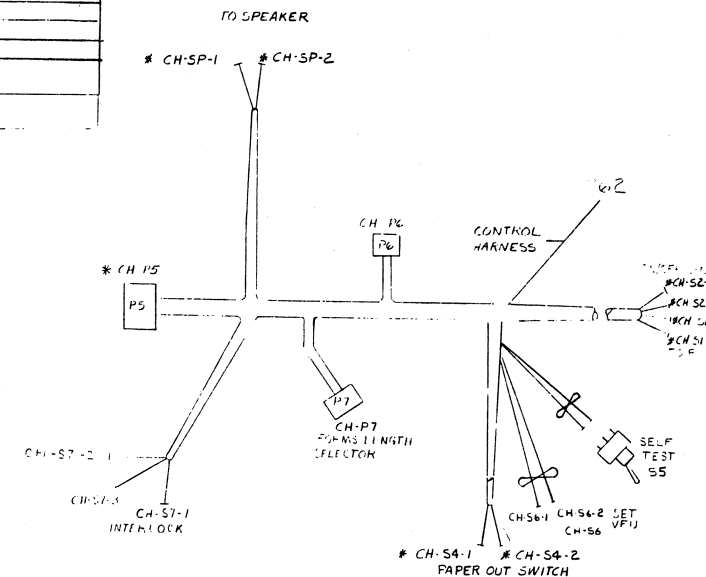
TITLE		SIZE CODE	NUM. SER.	REV.
LA180 UNIT ASSY		E UA	LA180-0-0	M
SCALE		SHEET	2 OF 3	DIST.

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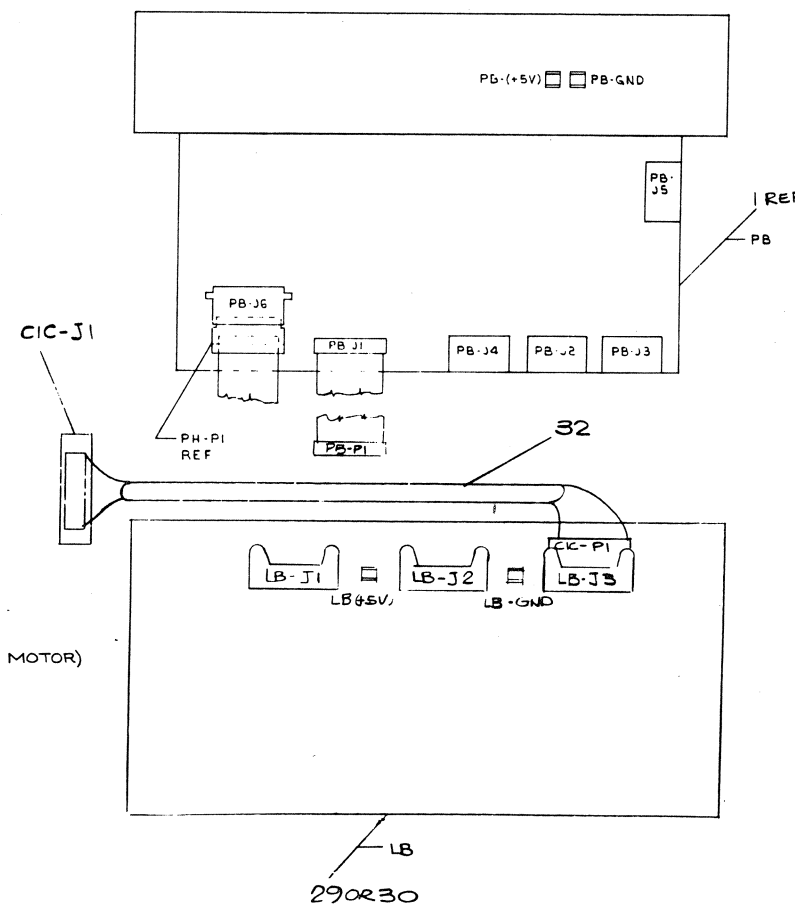
WIRE TABLE							
ITEM NO	AWG	COLOR	FROM	CONN	TERM	TO	CONN
5			MTR2-P2			PB-J5	
62			CH-P7			FC-J7	
62			CH-SG-1			SG-1	TUF
62			CH-SG-2			SG-2	SET
5			MTR1-P3			CH-P6	
5			PH-P1			PH-TG	
5			MTR1-P1			PB-J4	
5			GND	MECH ASSY GND		CABINET GND	SEE SHEET 1
31	14	BLK	PB (+5V)		29	LB (+5V)	
1	14	RED	PB GND		OR	LB GND	
1			PB-P1			LB-J2	
32			CH-P5		30	LB-J1	
32			CIC-P1			LB-J3	
62	22	GRY	CH-S7-1			S7-1	INTER
62	22	BRN	CH-S7-2			S7-2	LOCK
62	22	WHT	CH-S7-3			S7-3	
62	22	WHT	CH-S7-4			S7-4	R.O.



CABLE ROUTING DIAGRAM



NOTE: (*) ASTERISKS INDICATE HARNESS CONNECTIONS MADE AT NEXT LOWER LEVEL ASSY.



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		LA180 UNIT ASSY	SIZE/CLAS		NUMBER	REV.
SCALE		SHEET 5 OF 3	DIST.		1	M

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			QUANTITY / VARIATION											
PARTS LIST			LA180-PA	LA180-PB	LA180-PC	LA180-PD	LA180-CA	LA180-CB	LA180-CC	LA180-CD	LA180-EA	LA180-EB	LA180-EC	LA180-ED
MADE BY L. TAYLOR		CHECKED												
DATE 10/4/74		DATE 6-17-75												
ENG		PROD R. L. Jordan												
DATE 6-17-75		DATE 6/18/75												
SECTION	1													
ISSUED SECT.	1													
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	LA180-PA	LA180-PB	LA180-PC	LA180-PD	LA180-CA	LA180-CB	LA180-CC	LA180-CD	LA180-EA	LA180-EB	LA180-EC	LA180-ED
1	E-AD-7010094-1-0	CABINET ASSY W/POWER SUPPLY(115V) 6ØHZ	1	-	-	-	1	-	-	-	1	-	-	-
2	E-AD-7010094-2-0	CABINET ASSY W/POWER SUPPLY(23ØV) 6ØHZ	-	1	-	-	-	1	-	-	-	1	-	-
3	E-AD-7010094-3-0	CABINET ASSY W/POWER SUPPLY(115V) 5ØHZ	-	-	1	-	-	-	1	-	-	-	1	-
4	E-AD-7010094-4-0	CABINET ASSY W/POWER SUPPLY(23ØV) 5ØHZ	-	-	-	1	-	-	-	1	-	-	-	1
5	E-AD-7010091-0-0	PRINTER MECHANISM ASSY	1	1	1	1	1	1	1	1	1	1	1	1
6	D-AD-7009882-0-0	PRINT HEAD ASSY	1	1	1	1	1	1	1	1	1	1	1	1
7	D-IA-7010758-0-0	COVER ASSY	1	1	1	1	1	1	1	1	1	1	1	1
8	E-IA-7010757-0-0	HOUSING ASSY	1	1	1	1	1	1	1	1	1	1	1	1
9	1202704-00	CLAMP, CABLE	2	2	2	2	2	2	2	2	2	2	2	2
10	9008896-00	WELLNUT #10-32	7	7	7	7	7	7	7	7	7	7	7	7
11	9007906-00	WASHER, SPLIT LOCK, #10	4	4	4	4	4	4	4	4	4	4	4	4
12	C-AD-7010756-0-0	FAN ASSY 115V, MOTOR	1	1	1	1	1	1	1	1	1	1	1	1
13	9007649-00	WASHER, EXT TOOTH LOCK, #6	1	1	1	1								
14	9006633-00	WASHER, INTERNAL TOOTH LOCK #6	4	4	4	4	4	4	4	4	4	4	4	4
15	A-MD-7412103-0-0	PKG. OF PAPER (100 SHEETS)	1	1	1	1	1	1	1	1	1	1	1	1
16	3612153-00	RIBBON SPOOL W/RIBBON	1	1	1	1	1	1	1	1	1	1	1	1
17	1212008-00	RIBBON SPOOL (EMPTY)	1	1	1	1	1	1	1	1	1	1	1	1
18	9006011-1	SCREW, PHL, PAN HD, #4-40 x .38L	4	4	4	4	4	4	4	4	4	4	4	4
19	9006077-1	SCREW, PHL, PAN HD, #6-32 x .38L	1	1	1	1								
20	9007793-1	SCREW, PHL, PAN HD, #6-32 x .56L	4	4	4	4	4	4	4	4	4	4	4	4
21	9006557-00	NUT, KEPS, #4-40	4	4	4	4	4	4	4	4	4	4	4	4
22	9009630-01	SCREW, PHL, PAN HD, #6-18 x .50, SELF TH	11	11	11	11	11	11	11	11	11	11	11	11
TITLE		ASSY NO.	SIZE	CODE	NUMBER					REV.	ECO NO.			
LA180 UNIT ASSY		E-UA-LA180-Ø-Ø	A	PL	LA180-Ø-Ø					M	LA180-Ø-Ø PNC87			
SHEET 1 OF 3		DIST.												

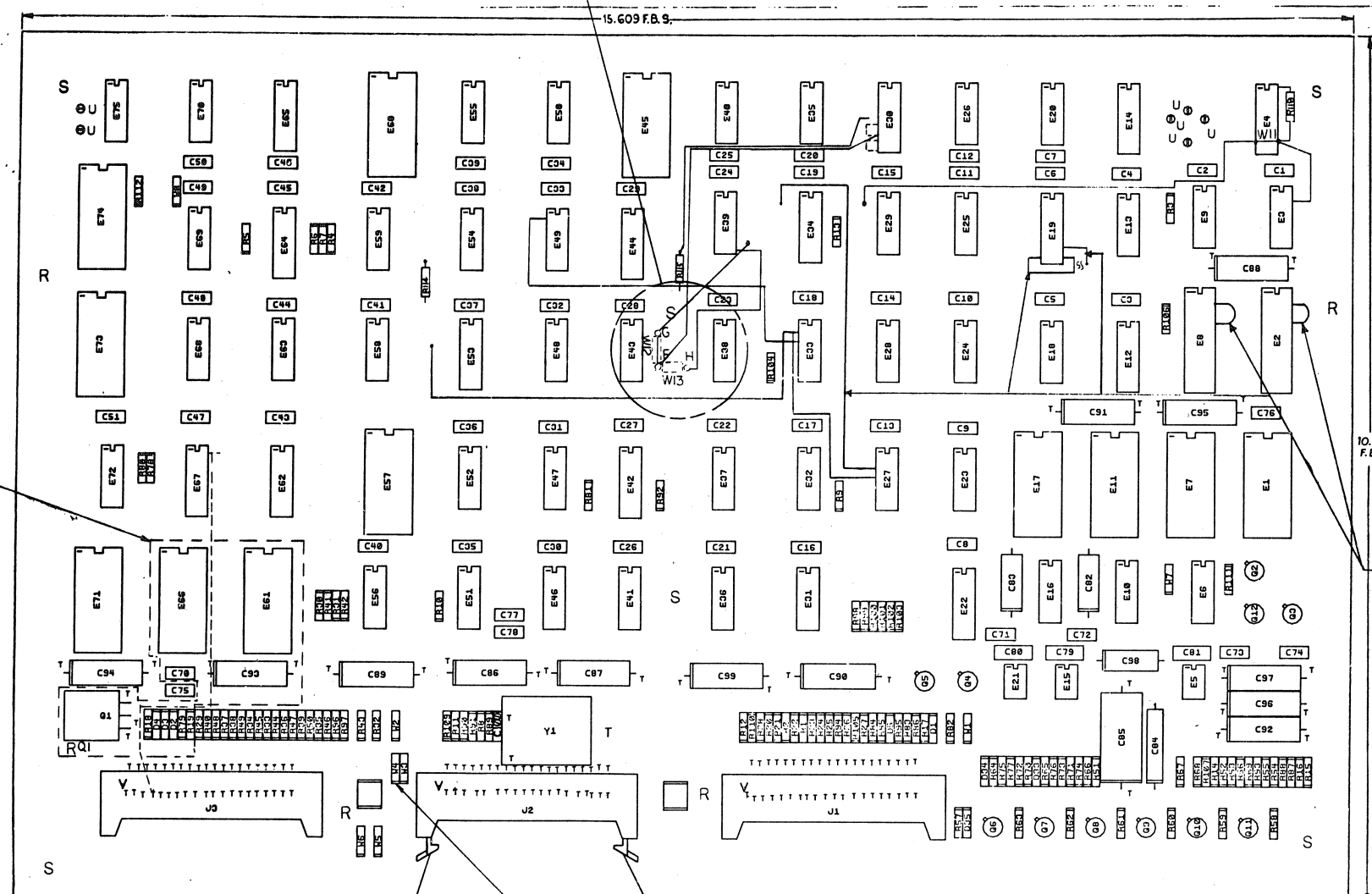
DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS					QUANTITY / VARIATION											
PARTS LIST					LA180-PA	LA180-PB	LA180-PC	LA180-PD	LA180-CA	LA180-CB	LA180-CC	LA180-CD	LA180-EA	LA180-EB	LA180-EC	LA180-ED
MADE BY DICK VENO		CHECKED	SECTION													
DATE 3/25/74		DATE 6-17-75	1													
ENG		PROD R. J. Jodanis	ISSUED SECT.													
DATE 6-17-75		DATE 6/18/75	1													
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION														
23	9006664-00	WASHER, FLAT, #10			7	7	7	7	7	7	7	7	7	7	7	7
24	9007801-00	WASHER, SPLIT LOCK, #6			1	1	1	1								
25	9008955-1	SCREW, PHL PAN HD, #10-32 x .94L			7	7	7	7	7	7	7	7	7	7	7	7
26	9006658-00	WASHER, FLAT, #4			4	4	4	4	4	4	4	4	4	4	4	4
27	9006653-00	WASHER, FLAT, #6			15	15	15	15	15	15	15	15	15	15	15	15
28	C-PS-3612451-0-0	NAME PLATE			1	1	1	1	1	1	1	1	1	1	1	1
29	D-CS-5411023-0-1	LOGIC BOARD LA180			1	1	1	1	1	1	1	1	1	1	1	1
30	D-CS-5411023-YA-1	LOGIC BOARD LA180 C/C			-	-	-	-								
31	D-IA-7011469-0-0	C/C INTERFACE CABLE ASSY			-	-	-	-								
32	C-MD-7413216-0-0	PLATE, INPUT CLAMP			1	1	1	1	1	1	1	1	1	1	1	1
33	9006037-1	SCR PHL PAN HD 8-32 x .38			3	3	3	3	3	3	3	3	3	3	3	3
34	9006690-00	WASHER SPLIT LOCK #8			2	2	2	2	2	2	2	2	2	2	2	2
35	9006660-00	WASHER FLAT #8			4	4	4	4	4	4	4	4	4	4	4	4
36	9008509-00	STRAIN RELIEF			1	1	1	1	1	1	1	1	1	1	1	1
37	A-SP-3700131-0-0	PACKAGING INSTRUCTIONS			REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF
38	9008208-1	SCR, PAN HD, NYLON 8-32 x .50			6	6	6	6	6	6	6	6	6	6	6	6
39	9006708	WASHER NYLON .37 O.D. x .19 I.D. x .032 THK			12	12	12	12	12	12	12	12	12	12	12	12
40	A-DC-7416178-0-0	DECAL, LA180			1	1	1	1	1	1	1	1	1	1	1	1
41	C-MD-7414953-0-0	LINE INDICATOR			1	1	1	1	1	1	1	1	1	1	1	1
42	9006656	WASHER, FLAT			2	2	2	2	2	2	2	2	2	2	2	2
43	9008072-00	EXTERNAL TOOTH LOCKWASHER #8			8	8	8	8	8	8	8	8	8	8	8	8
44	3612680-00	DECAL, GROUND SYMBOL			2	2	2	2	2	2	2	2	2	2	2	2
TITLE		ASSY NO.		SIZE	CODE		NUMBER						REV	ECO NO.		
LA180 UNIT ASSY		E-UA-LA180-0-0		A	PL		LA180-0-0						M			
SHEET 2 OF 3		DIST.														

[illegible]

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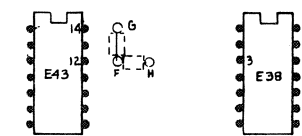
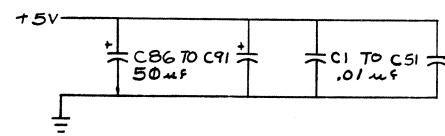
NOTES: SEE DETAIL A

- NOTE: 1. W2-W7, ARE NOT INSERTED
2. JUMPER WIRES ADDED - 8 PLACES
E2-18 TO E2-19
E8-18 TO E8-19
3. COMPONENTS WITHIN OUTLINE WERE USED ONLY WHEN PROMS WERE USED ON SERIAL #11303 AND EARLIER.
4. W4 NECESSARY FOR 591 NS OR 1200 AUDIO CLOCK TO J3.



74175	12	24			
74161	8	16			
74123	8	16			
7489	8	16			
74150	12	24			
74190	8	16			
7442	8	16			
74193	8	16			
74154	12	24			
2101-2	8	22			
8640	1	8			
7493A	10	5			
1702A		12,22,23			16,24
LM301A			7	4	
2627	12	24			
2626	12	24			
IC TYPE	GND	+5V	+12V	-12V	-9V
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE.					
IC PIN LOCATIONS					

88 TYP 3PLACES SEE NOTE 4 89 TYP 3PLACES



DETAIL A SCALE: NONE

FIRST USED ON OPTION MODEL		LA180	
QTY	REF. DESIGNATION	DESCRIPTION	PART NO.
ETCH BOARD REV. E			
PARTS LIST			
DRN.	J. EGGER	DATE	3-18-75
CHK'D.	J. EGGER	DATE	3-18-75
ENG.	C. MANN	DATE	3-18-75
PROD'G.	W. L. Williams	DATE	3-18-75
PROD.	J. L. Gump	DATE	3-18-75
NEXT HIGHER ASSY			
DEC NO.		EIA NO.	DEC NO.
EIA NO.		DEC NO.	EIA NO.
SEMICONDUCTOR CONVERSION CHART			
SHEET 1 OF 9		TITLE	
LA180		LOGIC BOARD	
SIZE CODE		NUMBER	
D CS 5411023-0-1		REV. 25	

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PARTS LIST

QTY	REF DESIGNATION	DESCRIPTION	PART NO	ITE NO
D	REF	X-Y COORDINATE HOLE LOCATION	K-CO-541023-0-4	1
	REF	ASSY/DRILLING HOLE LAYOUT	E-44-541023-0-5	2
	REF	MODULE ECO HISTORY	B-M4-541023-0-6	3
	1	ETCHED CIRCUIT BOARD	501022-00	4
	4	C79, C80, C81, C100	CAP 39PF 100V 5%	5
	1	C85	CAP .68uF 50V 10%	6
	2	C82, C83	CAP .047uF 100V 10%	7
	6	C92, C94-97, C99	CAP 25uF 25V 10%	8
	57	C1-C51, C71-C76	CAP .01uF 50V	9
	1	C84	CAP .1uF 100V 10%	10
	2	C77, C78	CAP .005uF 100V 20%	11
	6	C86-C91	CAP 50uF 25V 10%	12
	2	D1, D35	DIODE D664	13
	2	D33, D34	DIODE 1N748A 3.9V 5%	14
	2	D3, D4	DIODE 41451 A21	15
	1	D5	DIODE D662	16
	3	J1, J2, J3	CONN 40 PIN	17
C	2	E1, E7, E10	SOCKET IC 24 PIN	18
	1	E86	RES 51K 1/4W 5%	19
	15	R30-R39, R12, R29, R85, R96, R114	RES 150 1/4W 5%	20
	3	R78, R80, R82	RES 100 1/4W 5%	21
	1	R57	RES 820 1/4W 5%	22
	3	R53, R70, R71	RES 180 1/4W 5%	23
	1	R93	RES 560 1/4W 5%	24
	19	R40-R50, R95, R97, R110, R115	RES 330 1/4W 5%	25
	2	R84, R85	RES 470 1/4W 5%	26
	25	R1-R11, R13-R17, R27, R38, R89, R94, R105, R106, R111, R112, R118	RES 1K 1/4W 5%	27
	1	R87	RES 1.5K 1/4W 5%	28
	5	R81, R88, R90-E92	RES 5.6K 1/4W 5%	29
	2	R55, R56	RES 1K 1/8W 1%	30
	1	R51	RES 47K 1/4W 5%	31
	1	R61	RES 11.5K 1/8W 1%	32
	2	R72, R73	RES 820K 1/4W 10%	33
	2	R62, R63	RES 2.61K 1/4W 1%	34
B	2	R76, R77	RES 5.11K 1/4W 1%	35
				36
	2	R74, R75	RES 619 1/4W 1%	37
	1	R58	RES 31.6K 1/8W 1%	38
	2	R52, R54	RES 232K 1/8W 1%	39
	6	R64-R69	RES 2K 1/4W 5%	40
	1	R60	RES 16.9K 1/8W 1%	41
	1	R59	RES 24.3K 1/4W 1%	42
	2	Q2, Q3	TRANS 6534D PNP	43
	9	Q4-Q12	TRANS MPSA05 NPN	44
	7	Q1	TRANS DMSCA PNP	45
	1	Y1	CRYSTAL 1.6896 MHZ	46
	11	E18, E20, E23, E25 E26, E29, E35, E50 E51, E54, E55	I.C. 7474	47
	4	E24, E48, E49, E52	I.C. 7400	48
	1	E28	I.C. 7410	49
	1	E70	I.C. 7420	50
A	1	E69	I.C. 7401	51
	2	E39, E40	I.C. 7493A	52

PARTS LIST

QTY	REF DESIGNATION	DESCRIPTION	PART NO	ITEM NO
3	E36, E41, E46	I.C. 8640	1911469-00	53
6	E31, E33, E47, E72 E75, E27	I.C. 7404	1909686-00	54
3	E45, E60, E73	I.C. 74154	1909701-00	55
1	E16	I.C. 7413	1909989-00	56
5	E12, E14, E62, E64, E67	I.C. 74193	1910018-00	57
1	E53	I.C. 7442	1910046-00	58
1	E19	I.C. 74190	1910095-00	59
2	E56, E30	I.C. 8881	1909705-00	60
2	E57, E74	I.C. 74150	1910153-00	61
3	E5, E15, E21	I.C. LM301A	1910282-00	62
1	E45	I.C. 7489	1910396-00	63
1	E42	I.C. 74123	1910436-00	64
2	E34, E44	I.C. 74161	1910650-00	65
1	E22	I.C. 74175	1910651-00	66
2	E2, E8	I.C. 2101-2	2112323-00	67
2	E41, E46	I.C. 1702A PROMS	2300049-05	68
1	E38	I.C. 8815	1909713-00	69
4	E3, E9, E32, E37	I.C. 74197	1910035-00	70
4	E43, E59, E63, E68	I.C. 7408	1910155-00	71
1	E1	I.C. MK2626 (UNSLASHED O)	2307116-00	72
1	E7	I.C. MK2627 (ALPHA SET)	2307046-00	73
9		SPLIT LUGS	9006735	74
1		SCREW PPH	9006011-01	75
2		FASTEN TAB	9007113-00	76
1		KEP NUT	9006557-00	77
2		EY LETS	9009000	78
9	R98-R104, R109, R107	RES 47K 1/4W 5%	1302177	79
1	E58	I.C. 7414	1911324	80
1	E13	I.C. 74180	1910724	81
1	E10	I.C. 9601	1909373	82
1	E6	I.C. 7406	1910741	83
1	C98	CAP 39uF 10V 10%	1000076	84
7	R20 THRU R26	RES 4.7K 1/4W 5%	1300447-00	85
5	W1, W4, W8, W11, W12 OR W13	INSULATED JUMPER	9009185	86
AR		JUMPER, INSULATED	9105740-55	87
3		LATCH, LEFT	1209941-03	88
3		LATCH, RIGHT	1209941-04	89
1	E71	IC MK2611 IP CROM	23088A6	90

REVISIONS		
CHK	CHANGE NO.	REV.

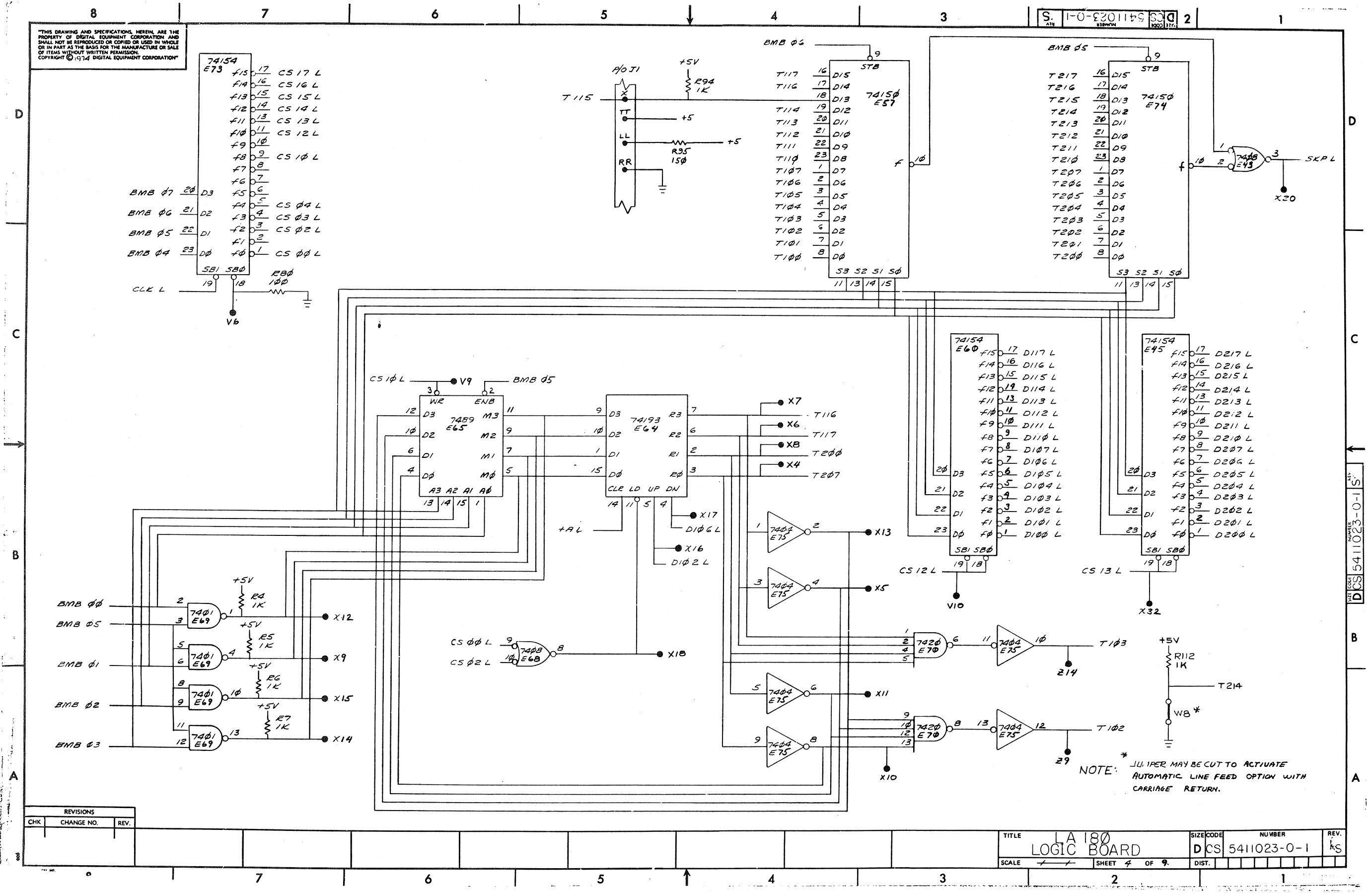
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TITLE		LA 180 LOGIC BOARD		SIZE CODE		NUMBER		REV	
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SCALE		SHEET 3 OF 9		DIST.					

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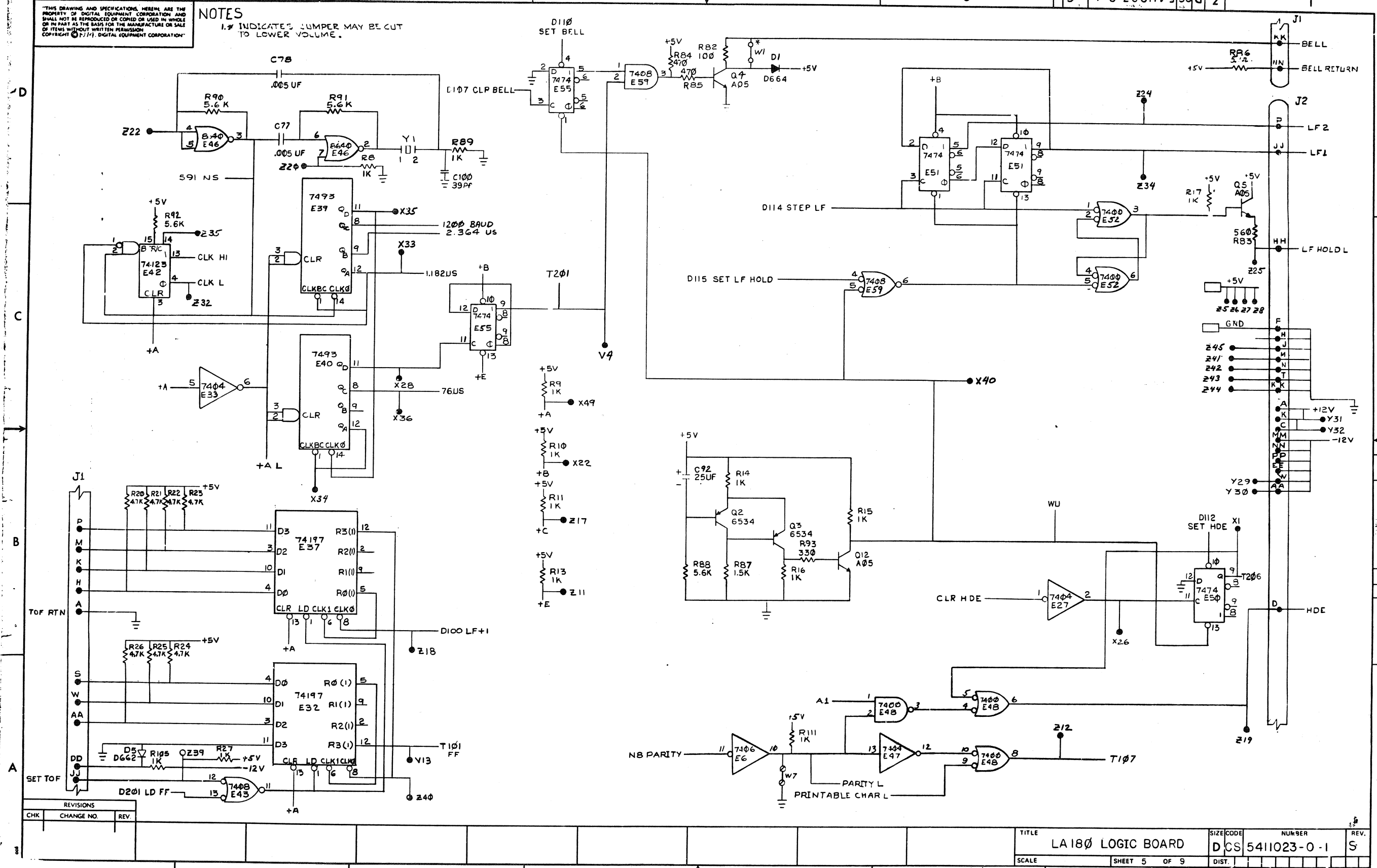
NOTE: Jumper may be cut to activate automatic line feed option with carriage return.

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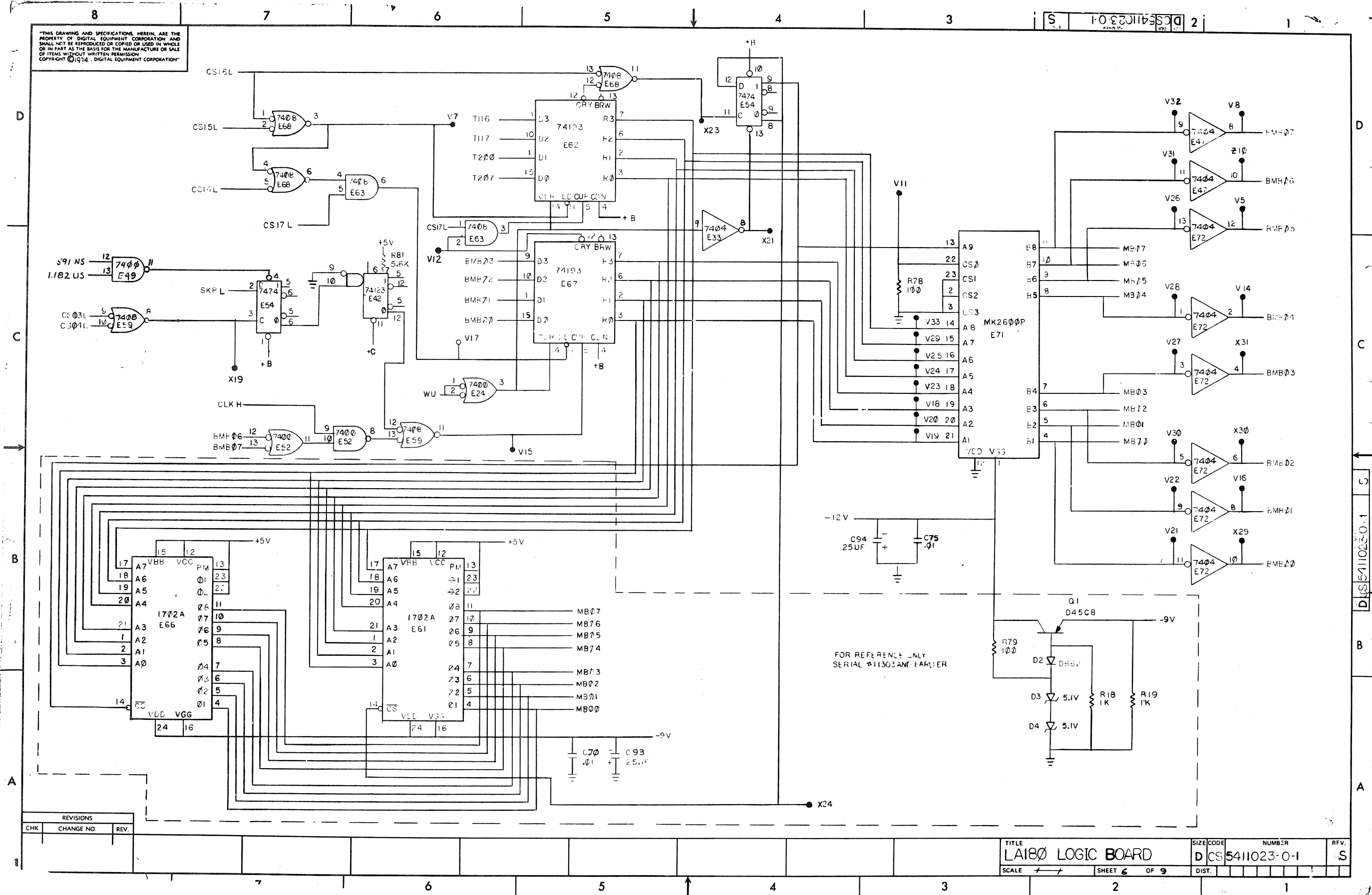
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NOTES
1. * INDICATES JUMPER MAY BE CUT TO LOWER VOLUME.

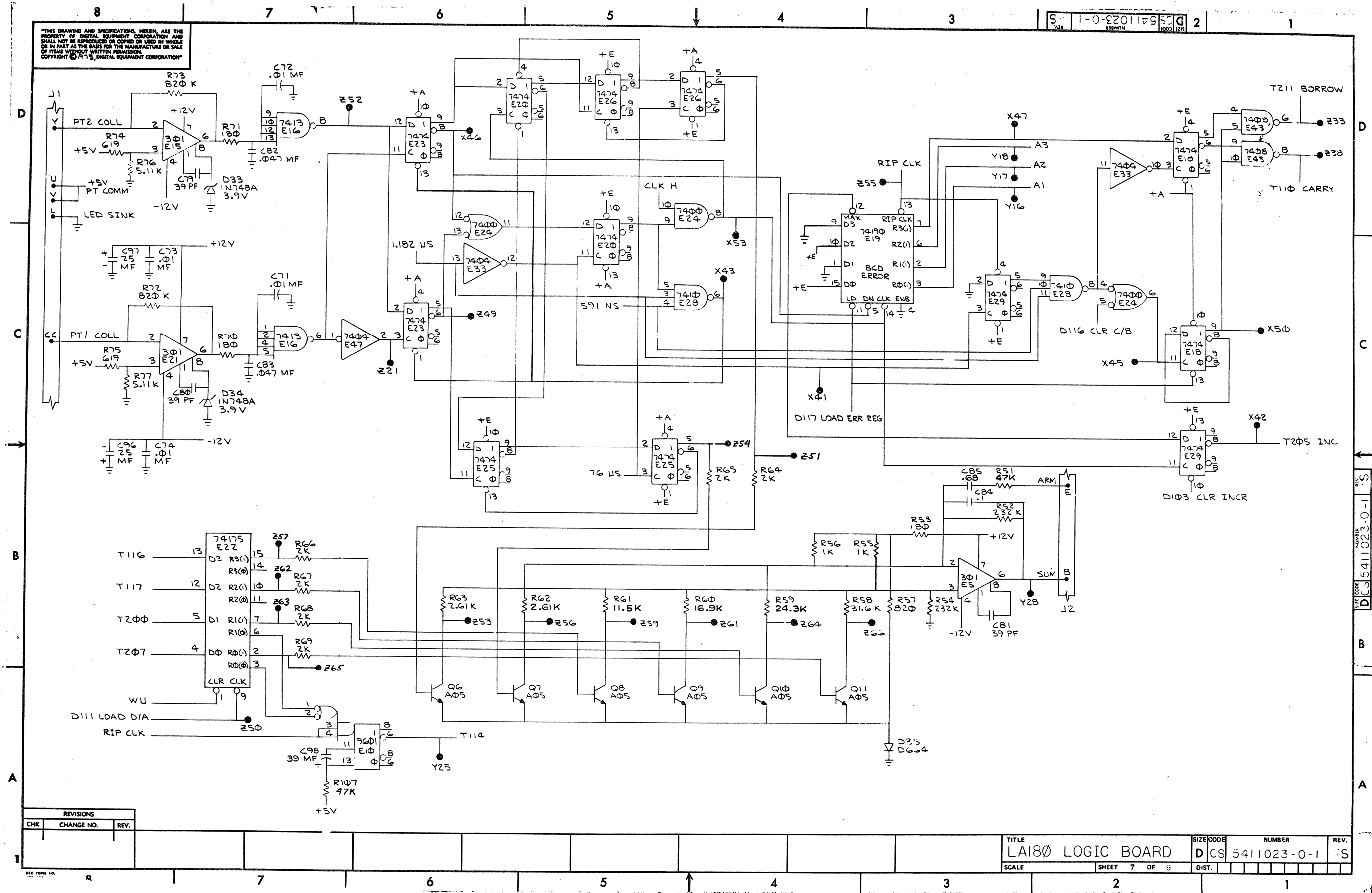


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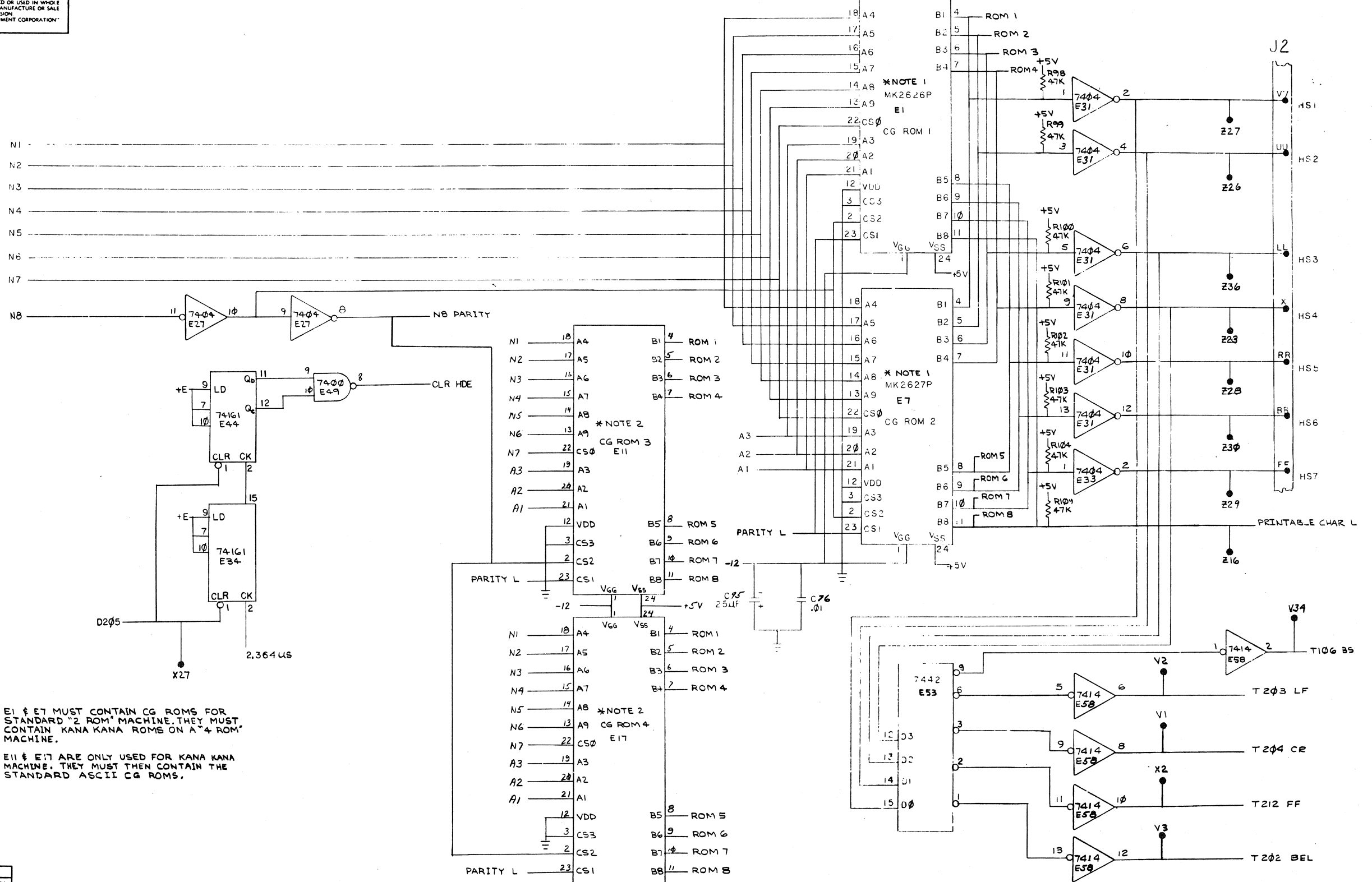


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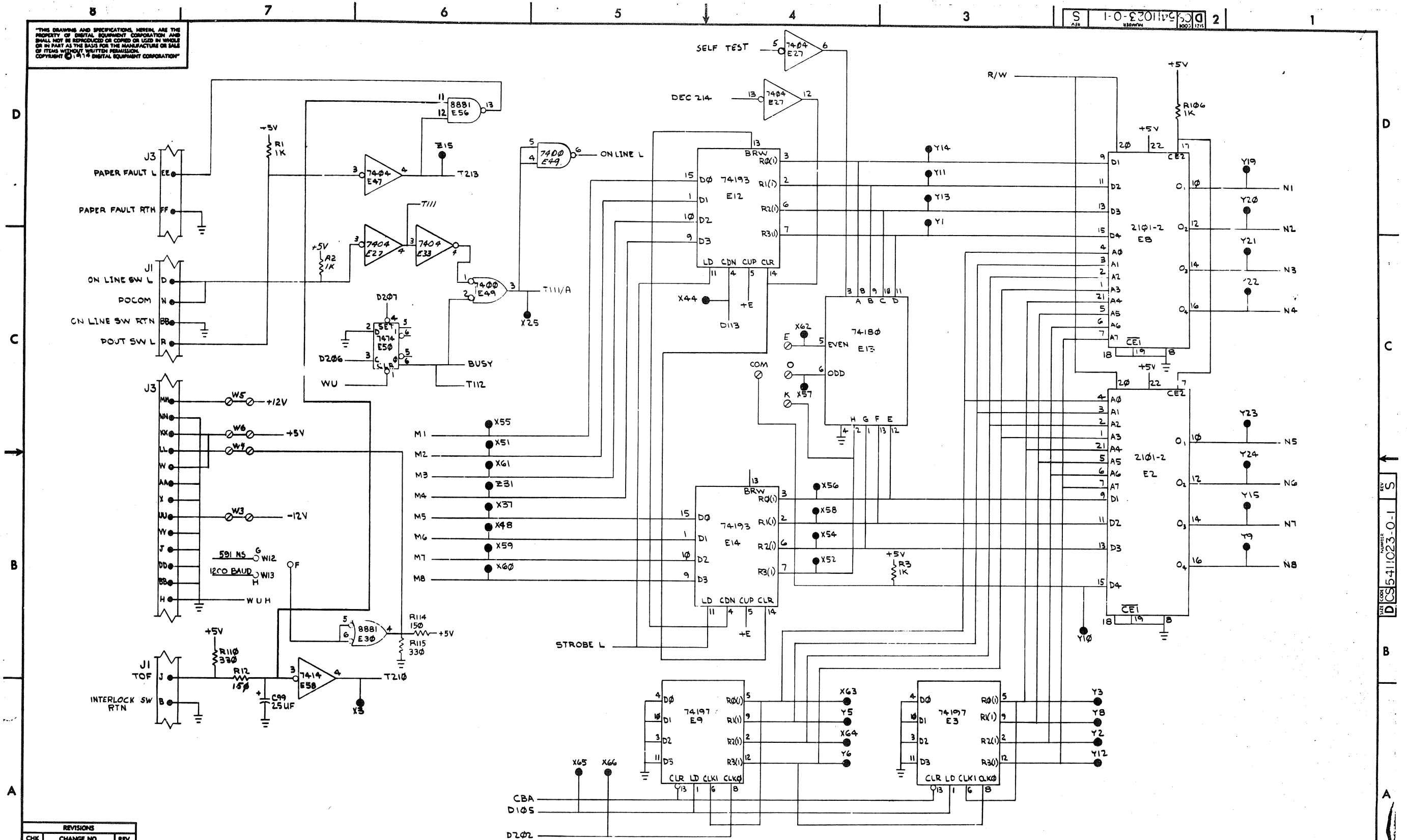
* NOTE 1 E1 & E7 MUST CONTAIN CG ROMS FOR STANDARD "2 ROM" MACHINE. THEY MUST CONTAIN KANA KANA ROMS ON A "4 ROM" MACHINE.

* NOTE 2 E11 & E17 ARE ONLY USED FOR KANA KANA MACHINE. THEY MUST THEN CONTAIN THE STANDARD ASCII CG ROMS.

REVISIONS		
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TITLE	LA180 LOGIC BOARD	SIZE CODE	NUMBER	REV.
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REVISIONS		
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TITLE		SIZE CODE	NUMBER	REV.
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