

digital

LA180

Engineering Drawings

Digital Equipment Corporation

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SEQUENCE

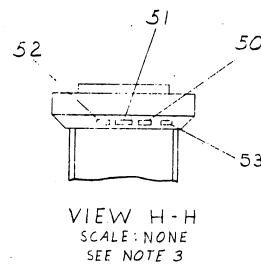
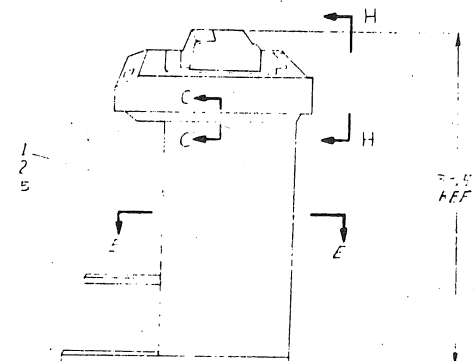
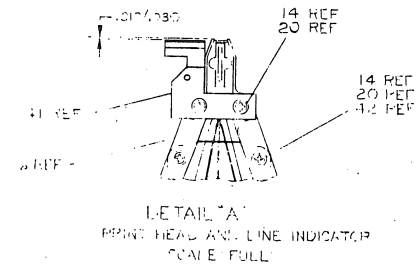
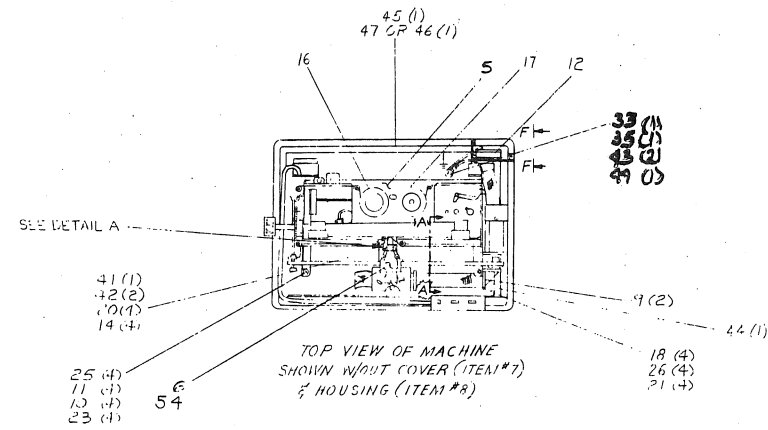
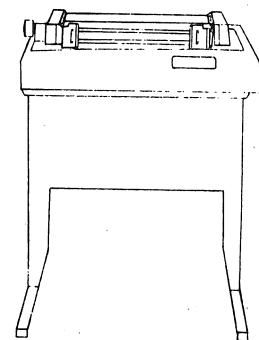
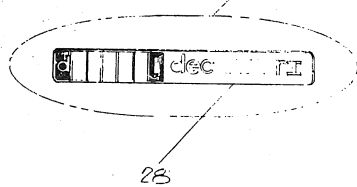
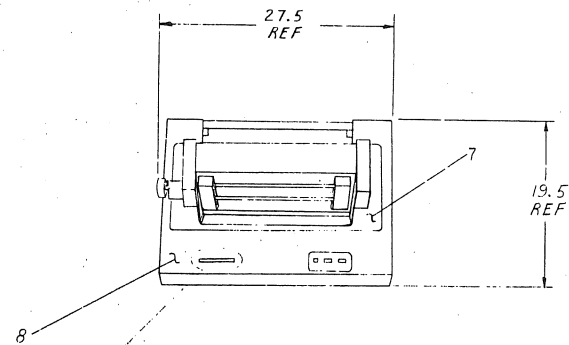
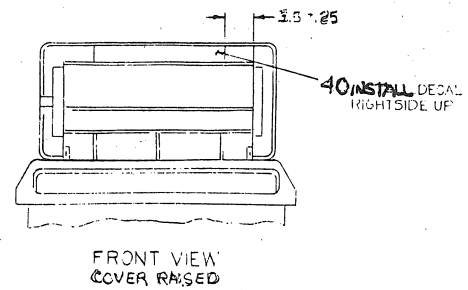
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B-DD-LAXX-KB
B-DD-LAXX-LD
B-DD-LAXX-KJ

[illegible]

REVISIONS		
DATE	CHG. NO.	REV
2-76	LA180-22	B
5-78	LA180-42	C
8-76	LA180-69	D
12-76	LA180-PN08	E

USED ON OPTION/MODEL		DRN.	DATE		TITLE			
		A. TAYLOR	11/2/74					
		CHK'D.	DATE		DECRINTEE DRAWING DIRECTORY			
		A. TAYLOR	6/18/75					
		PROJ ENG.	DATE		NUMBER			
		B. STELTZER	6/17/75					
		PROD.	DATE		SIZE	CODE	LAING-D	
		R. JODOIN	6/18/75		B	DD		
		FIELD SERV.	DATE		DIST		REV	
		T. MONGELLO	6/23/75					
SHEET 1 OF 7								E

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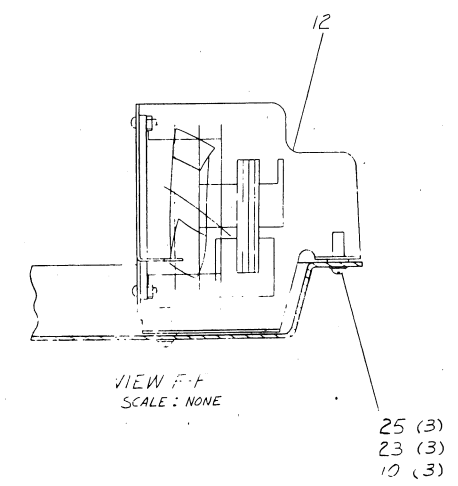
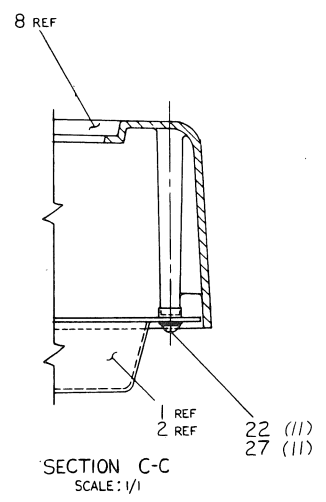
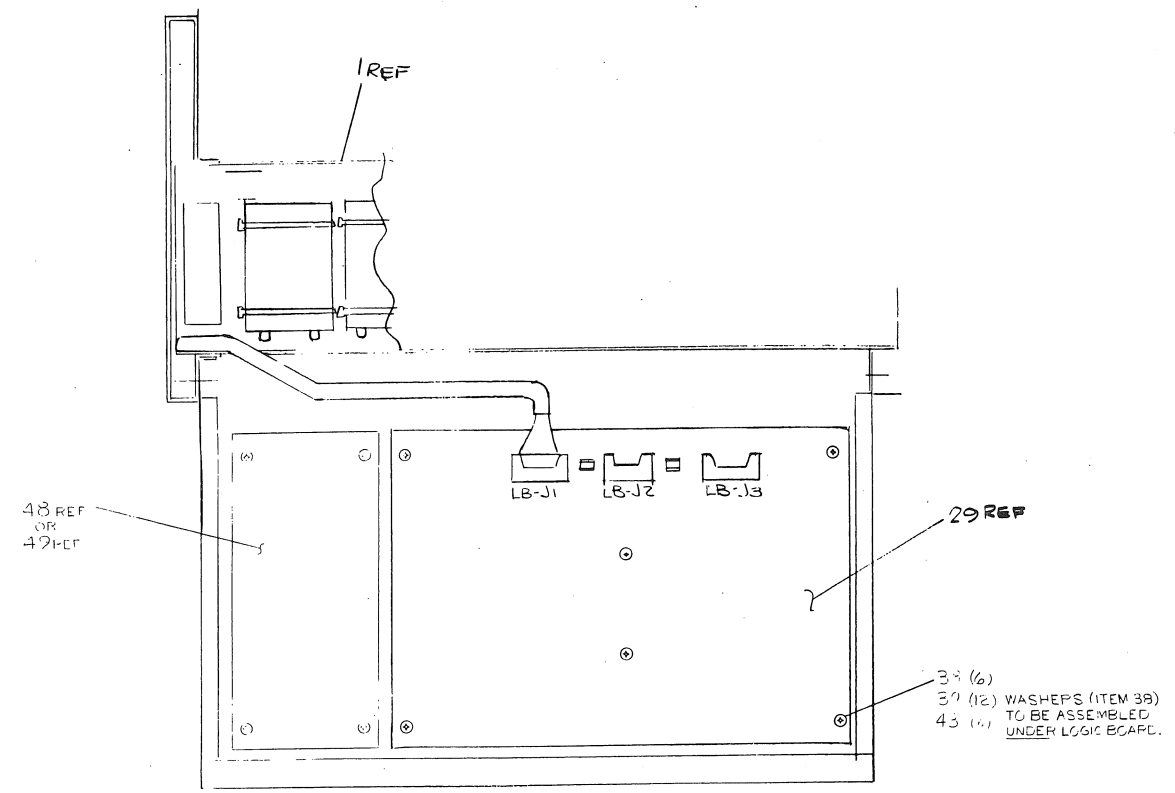
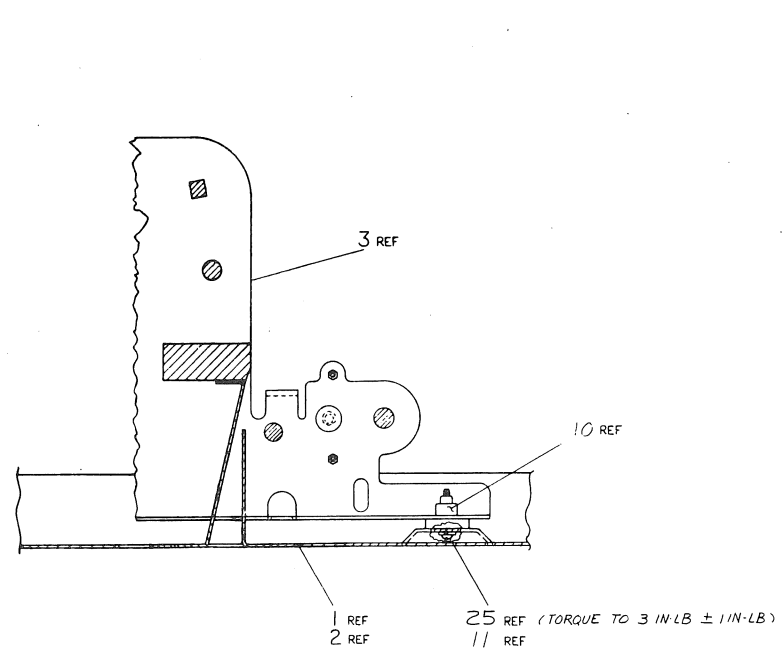


- NOTES:
1. FOR PARTS LIST SEE DRAWING "A-PL-CA 180-B"
 2. STAYS P 32 (PLATE W/OUT CLAMP), "33 (2) SCREWS, "34 (2) LOCKWASHERS, "35 (2) FLAT WASHERS AND "36 (2) STRAIN RELIEF ARE TO BE SHIPPED LOOSE WITH UNIT.
 3. UL AND CSA LABELS TO BE APPLIED ONLY WHEN UNIT HAS MET ALL UL AND CSA REQUIREMENTS.

REV.	DATE	BY	CHKD	APP'D
1	8-22-77	J. BITTO		
2	8-22-77	J. BITTO		
3	8-22-77	J. BITTO		
4	8-22-77	J. BITTO		
5	8-22-77	J. BITTO		
6	8-22-77	J. BITTO		
7	8-22-77	J. BITTO		
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28	8-22-77	J. BITTO		
29	8-22-77	J. BITTO		
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93	8-22-77	J. BITTO		
94	8-22-77	J. BITTO		
95	8-22-77	J. BITTO		
96	8-22-77	J. BITTO		
97	8-22-77	J. BITTO		
98	8-22-77	J. BITTO		
99	8-22-77	J. BITTO		
100	8-22-77	J. BITTO		

FIRST USED ON OPTION/MODEL LA 180		QTY.	DESCRIPTION	PART 1 3	ITEM NO.
DIMENSIONAL TOLERANCE DIMENSIONS ARE UNLESS OTHERWISE SPECIFIED		DRN. DATE 8-22-77	DATE 8-22-77	PARTS LIST	
MILLIMETERS X .010 X .020 X .050 X .100 X .150 X .200 X .250 X .300 X .350 X .400 X .450 X .500 X .550 X .600 X .650 X .700 X .750 X .800 X .850 X .900 X .950 X 1.000		INCHES X .001 X .002 X .005 X .010 X .015 X .020 X .025 X .030 X .035 X .040 X .045 X .050 X .055 X .060 X .065 X .070 X .075 X .080 X .085 X .090 X .095 X 1.000	ANGLES X .001 X .002 X .005 X .010 X .015 X .020 X .025 X .030 X .035 X .040 X .045 X .050 X .055 X .060 X .065 X .070 X .075 X .080 X .085 X .090 X .095 X 1.000	TITLE LA 180 UNIT ASSY	
THIRD ANGLE PROJECTION		PLUGS AND BREAK SHARP CORNER SURFACE QUALITY	DATE 8-22-77	SIZE CODE EUA LA 180-00	
SEE PARTS LIST		SCALE NONE	REV. 1		
SHEET 1		DIST.			

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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		LA180 UNIT ASSY	SIZE CODE	EUA	NUMBER	LA180-00	REV.	M
SCALE		SHEET 2 OF 3	DIST.		1	2	3	8

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WIRE TABLE						
ITEM NO	AWG	COLOR	FROM	TERM	TO	REMARKS
5			MTR2-P2		PB-J5	
62			CH-P7		FC-J7	
62			CH-S4-1		S6-1	TUF
62			CH-S4-2		S6-3	SET
5			MTR1-P3		CH-P6	
5			CH-P1		PH-T6	
5			MTR1-P1		PB-J4	
5			GND		CABINET GND	SEE SHEET 1
31	14	BLK	PB(+5V)		LB+5V	
1	14	RED	PB-GND		LB-GND	
1			PB-P1	29 OR	LB-J2	
32			CH-P5	30	LB-J1	
62			CIC-P1		LB-J3	
22	22	GRN	CH-S7-1		S7-1	INTERLOCK
22	22	BRN	CH-S7-3		S7-3	
22	22	WHT	CH-S7-2		S7-2	
22	22	WHT	CH-S7-2		S4-2	RG

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

REVISIONS													TITLE		SIZE/SCALE		NUMBER		REV.	
CHK.	CHANGE NO.	REV.											LA180 UNIT ASSY		EUA		LA180-0-0		M	
													SCALE		SHEET 3 OF 3		DIST.			

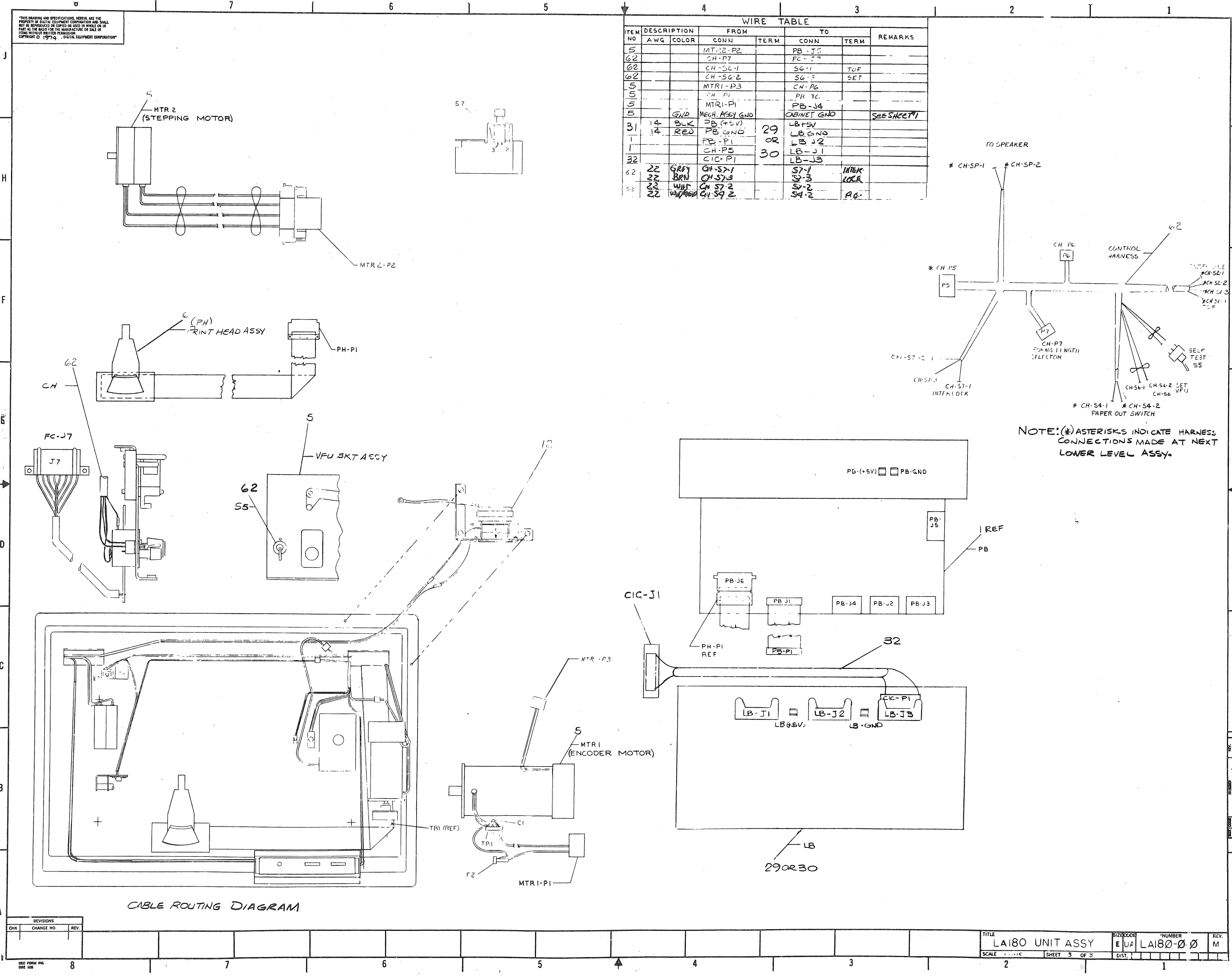
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ITEM NO	AWG	COLOR	FROM	TERM	TO	REMARKS
5			MTR2-P2		PB-J5	
62			CH-P7		FC-J7	
62			CH-S4-1		S6-1	TUF
62			CH-S4-2		S6-3	SET
5			MTR1-P3		CH-P6	
5			CH-P1		PH-TG	
5			MTR1-P1		PB-J4	
5			GND	MECH. ASSY GND	CABINET GND	SEE SHEET 1
31	14	BLK	PB(+5V)		LB+5V	
1	14	RED	PB-GND		LB-GND	
1			PB-P1		LB-J2	
32			CH-P5		LB-J1	
62			CIC-P1		LB-J3	
22	22	GRFY	CH-S7-1		S7-1	INTER
22	22	BRN	CH-S7-3		S7-3	LOCK
22	22	WHT	CH-S7-2		S7-2	
22	22	WHT	CH-S7-2		S4-2	RG

CABLE ROUTING DIAGRAM

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

REV.	CHANGE NO.	REV.	TITLE	SCALE	SHEET	OF	NUMBER	REV.
1			LA180 UNIT ASSY	1:1	3	3	LA180-0-0	M



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WIRE TABLE						
ITEM NO	AWG	COLOR	FROM	TERM	TO	REMARKS
5			MTR2-P2		PB-J5	
62			CH-P7		FC-J7	
62			CH-S4-1		S6-1	TUF
62			CH-S4-2		S6-3	SET
5			MTR1-P3		CH-P6	
5			CH-P1		PH-T6	
5			MTR1-P1		PB-J4	
5			GND	MECH. ASSY GND	CABINET GND	SEE SHEET 1
31	14	BLK	PB(+5V)		LB+5V	
1	14	RED	PB-GND		LB-GND	
1			PB-P1		LB-J2	
32			CH-P5		LB-J1	
62			CIC-P1		LB-J3	
22	22	GRN	CH-S7-1		S7-1	INTER
22	22	BRN	CH-S7-3		S7-3	LOCK
22	22	WHT	CH-S7-2		S7-2	
22	22	WHT	CH-S7-2		S4-2	RG

CABLE ROUTING DIAGRAM

TO SPEAKER

*** CH-SP-1 * CH-SP-2**

CH-P6

CONTROL HARNESS

*** CH-P5**

P5

CH-S7-3

CH-S7-2

CH-S7-1

INTERLOCK

CH-P7

FORMS 11 WITH SELECTOR

SELF TEST S5

*** CH-S4-1 * CH-S4-2**

PAPER OUT SWITCH

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

PB(+5V) PB-GND

PB-J5

REF

PB

CIC-J1

PH-P1 REF

PB-J6

PB-J1

PB-J4

PB-J2

PB-J3

PB-P1

32

LB-J1

LB+5V

LB-J2

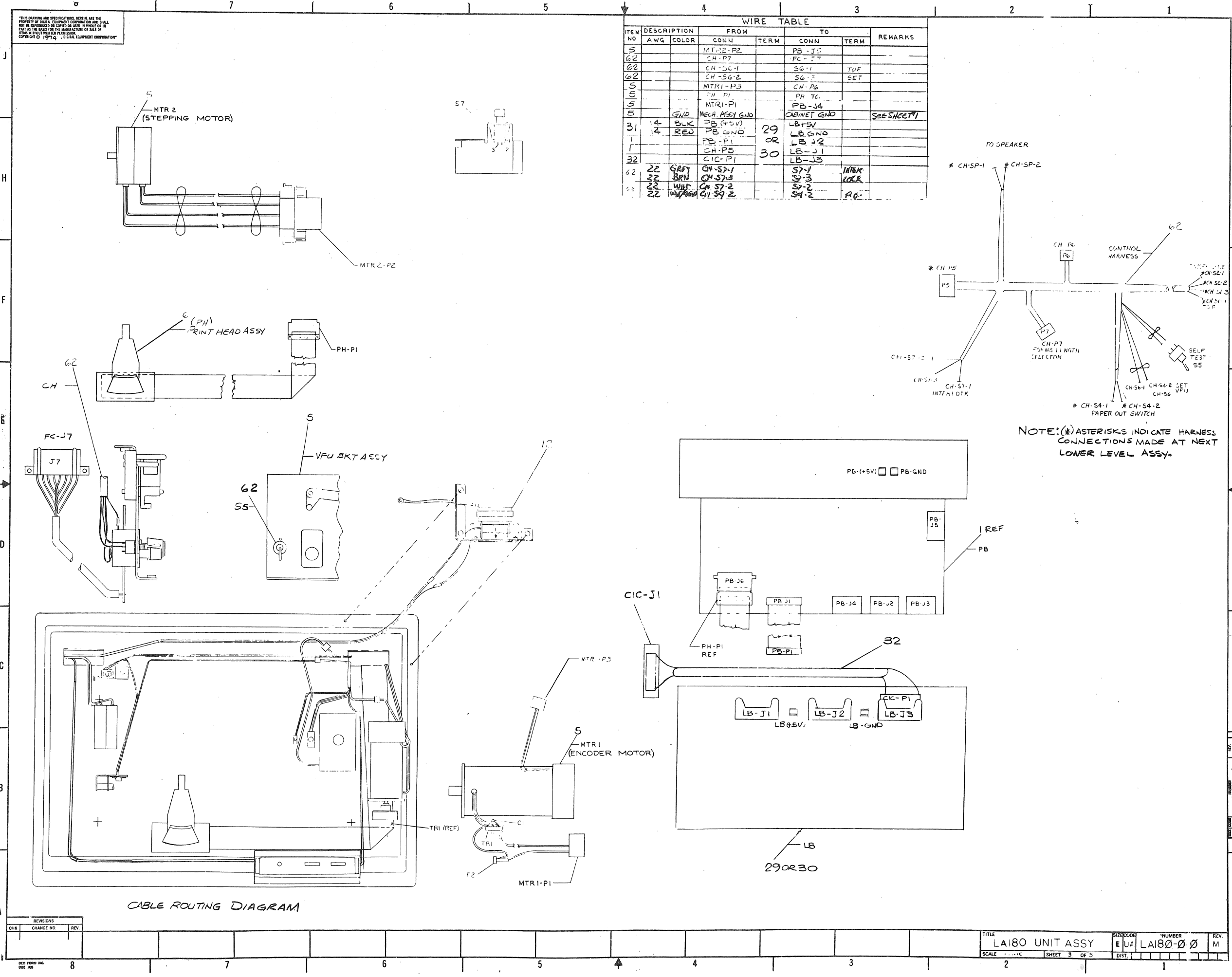
LB-GND

LB-J3

LB

290R30

REVISIONS			TITLE		SIZE/SCALE		NUMBER		REV.	
CHK.	CHANGE NO.	REV.	LA180 UNIT ASSY		EUA		LA180-0-0		M	
			SCALE		SHEET 3 OF 3		DIST.			



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62			CH-S4-1		S6-1	TUF
62			CH-S4-2		S6-3	SET
5			MTR1-P3		CH-P6	
5			CH-P1		PH-T6	
5			MTR1-P1		PB-J4	
5			GND	MECH. ASSY GND	CABINET GND	SEE SHEET 1
31	14	BLK	PB(+5V)		LB+5V	
1	14	RED	PB-GND		LB-GND	
1			PB-P1		LB-J2	
32			CH-P5		LB-J1	
62			CIC-P1		LB-J3	
22	22	GRN	CH-S7-1		S7-1	INTER
22	22	BRN	CH-S7-3		S7-3	LOCK
22	22	WHT	CH-S7-2		S7-2	
22	22	WHT	CH-S7-2		S4-2	RG

CABLE ROUTING DIAGRAM

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

REVISIONS			TITLE		SIZE/SCALE		NUMBER		REV.	
CHK.	CHANGE NO.	REV.	LA180 UNIT ASSY		EUA		LA180-0-0		M	
SHEET 3 OF 3			SCALE		DIST.					

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62			CH-S4-1		S6-1	TUF
62			CH-S4-2		S6-3	SET
5			MTR1-P3		CH-P6	
5			CH-P1		PH-T6	
5			MTR1-P1		PB-J4	
5			GND		CABINET GND	SEE SHEET 1
31	14	BLK	PB(+5V)		LB+5V	
1	14	RED	PB-GND		LB-GND	
1			PB-P1	29 OR	LB-J2	
32			CH-P5	30	LB-J1	
62			CIC-P1		LB-J3	
62	22	GRN	CH-S7-1		S7-1	INTERLOCK
62	22	BRN	CH-S7-3		S7-3	
62	22	WHT	CH-S7-2		S7-2	
62	22	WHT	CH-S7-2		S4-2	RG

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

REVISIONS													TITLE		SIZE/SCALE		NUMBER		REV.	
CHK.	CHANGE NO.	REV.											LA180 UNIT ASSY		EUA		LA180-0-0		M	
													SCALE		SHEET 3 OF 3		DIST.			

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62			CH-P7		FC-J7	
62			CH-S4-1		S6-1	TUF
62			CH-S4-2		S6-3	SET
5			MTR1-P3		CH-P6	
5			CH-P1		PH-T6	
5			MTR1-P1		PB-J4	
5			GND		CABINET GND	SEE SHEET 1
31	14	BLK	PB(+5V)		LB+5V	
1	14	RED	PB-GND		LB-GND	
1			PB-P1	29 OR	LB-J2	
32			CH-P5	30	LB-J1	
62			CIC-P1		LB-J3	
62	22	GRN	CH-S7-1		S7-1	INTERLOCK
62	22	BRN	CH-S7-3		S7-3	
62	22	WHT	CH-S7-2		S7-2	
62	22	WHT	CH-S7-2		S4-2	RG

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

REVISIONS			TITLE		SIZE/SCALE		NUMBER		REV.	
CHK.	CHANGE NO.	REV.	LA180 UNIT ASSY		EUA		LA180-0-0		M	
SCALE			SHEET 3 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 L. TAYLOR		CHECKED <i>[Signature]</i> 6-17-75		SECTION 1											
DATE 10/4/74		DATE <i>[Signature]</i> 6-17-75		ISSUED SECT. 1											
ENG <i>[Signature]</i>		PROD R.L. Jordan													
DATE 6-17-75		DATE 6/18/75													
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) 60HZ		1	-	-	-	-	-	-	-	-	-	-	-
2	E-AD-7010094-2-0	CABINET ASSY W/POWER SUPPLY(230V) 60HZ		-	1	-	-	-	-	-	-	-	-	-	-
3	E-AD-7010094-3-0	CABINET ASSY W/POWER SUPPLY(115V) 50HZ		-	-	1	-	-	-	-	-	-	-	-	-
4	E-AD-7010094-4-0	CABINET ASSY W/POWER SUPPLY(230V) 50HZ		-	-	-	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-LA180-0-0		A		PL		LA180-0-0				M		LA1-0-PNC87	
SHEET 1		OF 3		DIST.											

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS					QUANTITY / VARIATION												
PARTS LIST																	
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			LA180-PA	LA180-PB	LA180-PC	LA180-PD	LA180-CA	LA180-CB	LA180-CC	LA180-CD	LA180-EA	LA180-EB	LA180-EC	LA180-ED	
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.													

DIGITAL EQUIPMENT CORPORATION

MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY L. TAYLOR	CHECKED STELTZER	SECTION
DATE 10-4-74	DATE 6-17-75	1
ENG STELTZER	PROD R.L. JODOIN	ISSUED SECT.
DATE 6-17-75	DATE 6-18-75	1

[illegible]

QUANTITY / VARIATION

[illegible]

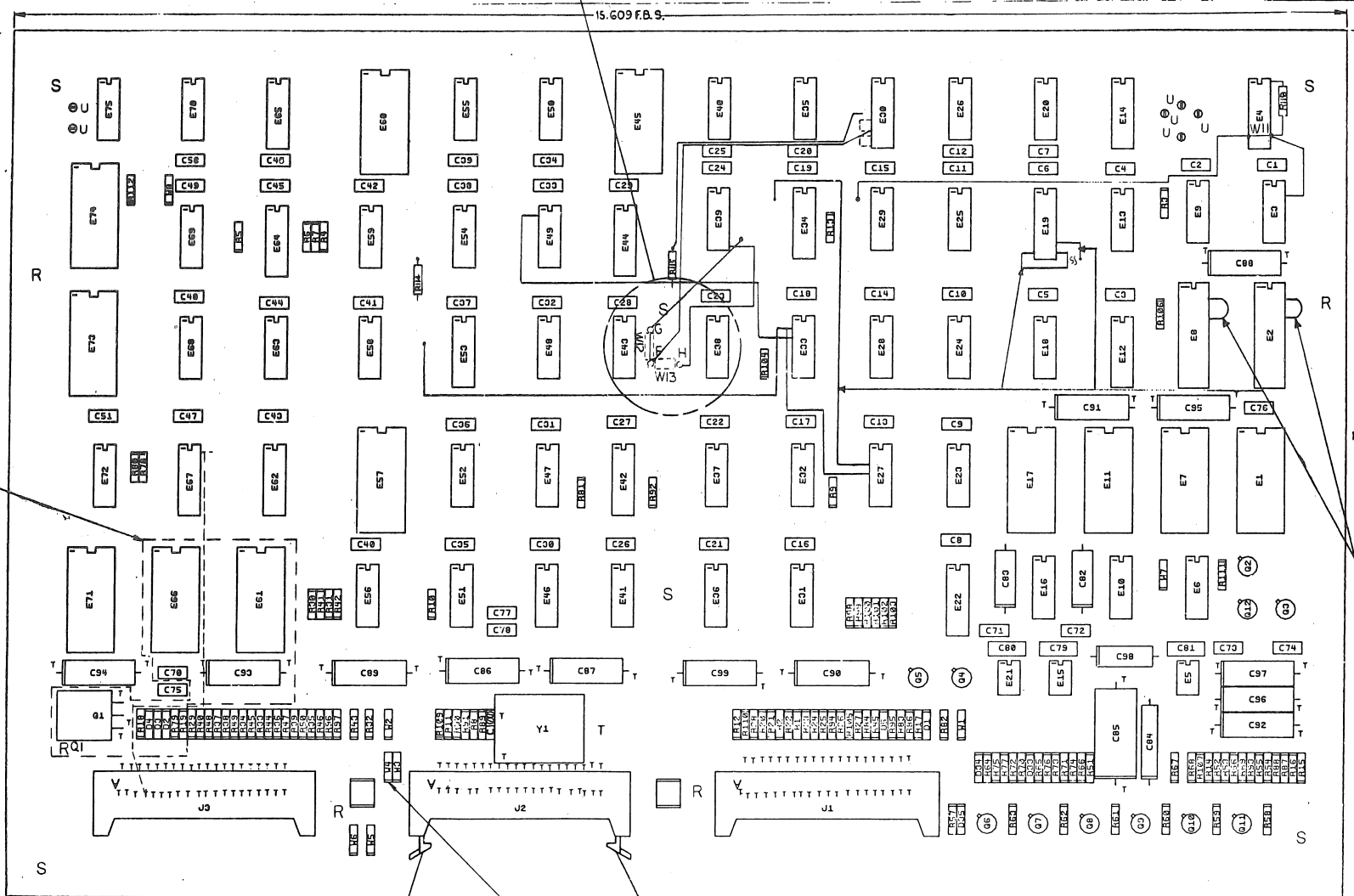
TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV	ECO NO.
LAI80 UNIT ASSY	E-UA-LI8Ø-Ø-Ø	A	PL	LAI8Ø-Ø-Ø	M	
SHEET 3 OF 3	DIST.					

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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 SAUD CLOCK TO J3.



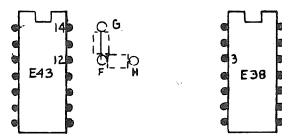
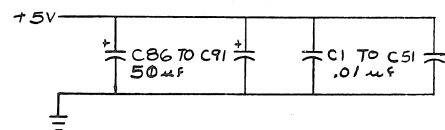
74175	8	16			
74161	8	16			
74123	8	16			
7489	8	16			
74150	12	24			
74190	8	16			
7442	8	16			
74193	8	16			
74154	12	24			
2101-2	8	22			
8640	1	8			
7493A	10	5			
1702A		12,23			16,24
LM301A			7	4	
2627	12	24			
2626	12	24			
IC TYPE	GND	+5V	+12V	-12V	-9V

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

SEE SHEET 2

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
ETCH BOARD REV. E				
DRN. J. EGGER DATE 3-14-75				
CHKD. J. EGGER DATE 3-14-75				
ENG. CHAMBERLAIN DATE 3-14-75				
PROJ. ENG. DATE 3-14-75				
PROD. DATE 3-14-75				
NEXT HIGHER ASSY				
TITLE LA180 LOGIC BOARD				
SIZE CODE NUMBER REV. AS				
DCE NO. EIA NO. DEC NO. EIA NO.				
SEMICONDUCTOR CONVERSION CHART				
SHEET 1 OF 9				

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PARTS LIST				
QTY	REF DESIGNATION	DESCRIPTION	PART NO	ITEM NO
REF		X-Y COORDINATE HOLE LOCATION	K-CO-5411023-0-4	1
REF		ASSY/DRILLING HOLE LAYOUT	E-AH-5411023-0-5	2
REF		MODULE ECO HISTORY	B-MH-5411023-0-6	3
1		ETCHED CIRCUIT BOARD	5011022-00	4
4	C79, C80, C81, C100	CAP 39pF 100V 5%	1000010-00	5
1	C85	CAP .68μF 50V 10%	1010031-06	6
2	C82, C83	CAP .047μF 100V 10%	1000051-00	7
6	C92, C94-97, C99	CAP 25μF 25V 10%	1000075-00	8
57	C1-C51, C71-C76	CAP .01μF 50V	1001610-00	9
1	C84	CAP .1μF 100V 10%	1002342-00	10
2	C77, C78	CAP .005μF 100V 20%	1001765-00	11
6	C86-C91	CAP 50μF 25V 10%	1001796-00	12
2	D1, D35	DIODE D664	1100114-00	13
2	D33, D34	DIODE 1N743A 3.9V 5%	1100122-00	14
2	D3, D4	DIODE 91131 API	1105873-00	15
1	D5	DIODE D662	1100113-00	16
3	J1, J2, J3	CONN 40 PIN	1209941-02	17
2	E1, E7, E15	SOCKET IC 24 PIN	1210693-00	18
1	E86	RES 51Ω 1/4W 5%	1309422-00	19
15	R30-R39, R12, R29, R83, R96, R114	RES 150 1/4W 5%	1300250-00	20
3	R78, R80, R82	RES 100 1/4W 5%	1300229-00	21
1	R57	RES 820 1/4W 5%	1301775-00	22
3	R53, R70, R71	RES 180 1/4W 5%	1301322-00	23
1	R83	RES 560 1/4W 5%	1301890-00	24
15	R40-R50, R93, R97, R110, R115	RES 330 1/4W 5%	1300295-00	25
2	R84, R85	RES 470 1/4W 5%	1300316-00	26
25	R1-R11, R13-R17, R27, R28, R89, R94, R105, R106, R111, R112, R108	RES 1K 1/4W 5%	1300365-00	27
1	R87	RES 1.5K 1/4W 5%	1300391-00	28
5	R81, R88, R90-R92	RES 5.6K 1/4W 5%	1301874-00	29
2	R55, R56	RES 1K 1/8W 1%	1302748-00	30
1	R51	RES 47K 1/4W 5%	1302177-00	31
1	R61	RES 11.5K 1/8W 1%	1302860-00	32
2	R72, R73	RES 820K 1/4W 10%	1303187-00	33
2	R62, R63	RES 2.61K 1/4W 1%	1303303-00	34
2	R76, R77	RES 5.11K 1/4W 1%	1304854-00	35
2	R74, R75	RES 619 1/4W 1%	1305126-00	36
1	R58	RES 31.6K 1/8W 1%	1305419-0-0	38
2	R52, R54	RES 232K 1/8W 1%	1305424-00	39
6	R64-R69	RES 2K 1/4W 5%	1302388-00	40
1	R60	RES 16.9K 1/8W 1%	1312618-00	41
1	R59	RES 24.3K 1/4W 1%	1309418-00	42
2	Q2, Q3	TRANS 6534D PNP	1503409-00	43
9	Q4-Q12	TRANS MPSA05 NPN	1510705-00	44
1	Q1	TRANS D65CA PNP	1510598-00	45
1	Y1	CRYSTAL 1.6896 MHZ	1811689-00	46
11	E18, E20, E23, E25, E26, E29, E35, E50, E51, E54, E55	I.C. 7474	1905547-00	47
4	E24, E48, E49, E52	I.C. 7400	1905575-00	48
1	E28	I.C. 7410	1905576-00	49
1	E70	I.C. 7420	1905577-00	50
1	E69	I.C. 7401	1905590-00	51
2	E39, E40	I.C. 7493A	1909054-00	52

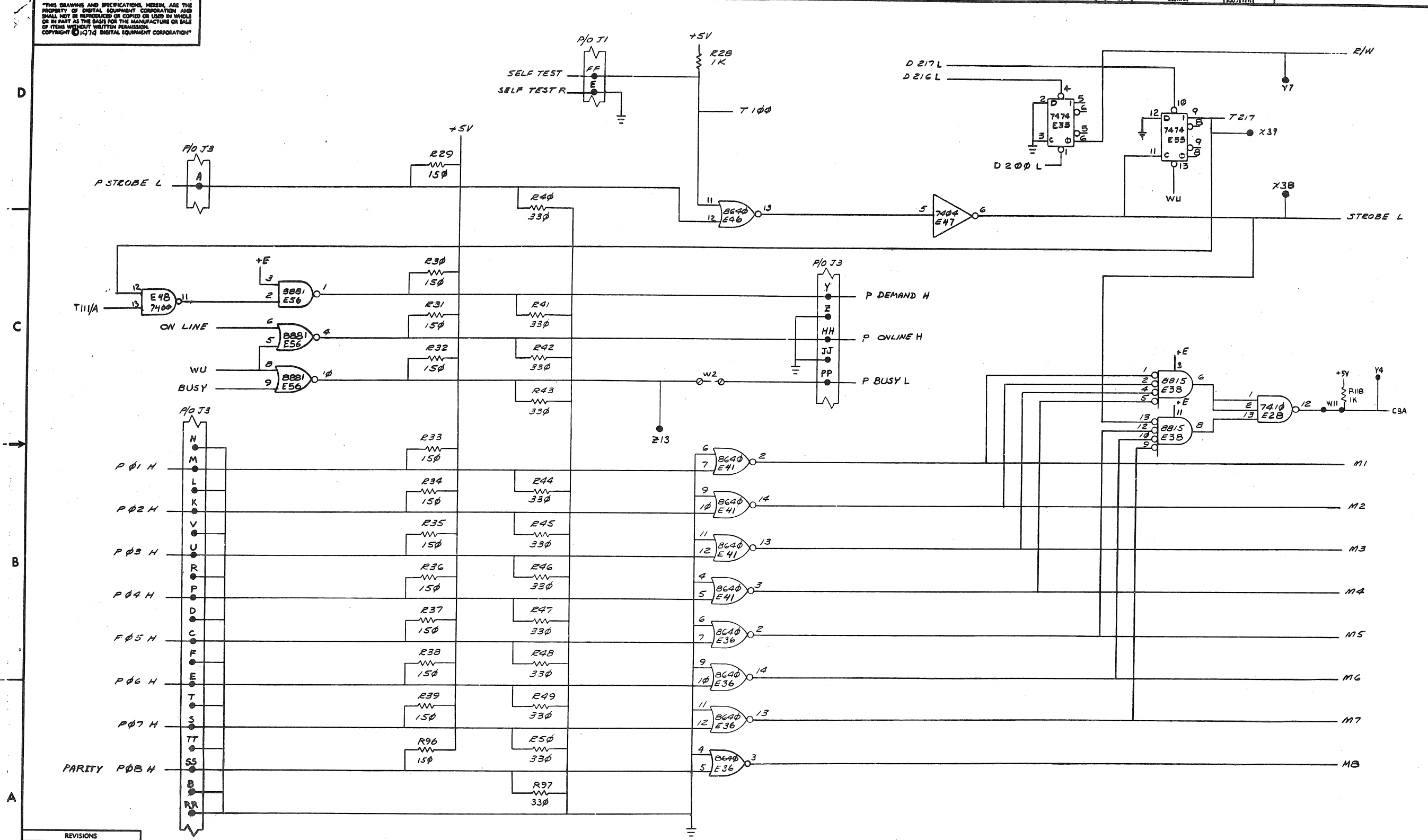
REVISIONS		
CHK	CHANGE NO.	REV

PARTS LIST				
QTY	REF DESIGNATION	DESCRIPTION	PART NO	ITEM NO
3	E36, E41, E46	I.C. 8690	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	E65	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	E61, E66	I.C. 1702A PROMS	2500044-00	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)	23071AG-00	72
1	E7	I.C. MK2627 (ALPHA SET)	23070AG-00	73
9		SPLIT LUGS	9006735	74
1		SCREW PPH	9006011-01	75
2		FASTON TAB	9007113-00	76
1		KEP NUT	9006557-00	77
2		EYLET5	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 39μF 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
4R		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

TITLE		SIZE CODE	NUMBER	REV.
LA180 LOGIC BOARD		D	CS 5411023-0-1	S1
SCALE	SHEET 2 OF 9	DIST.		

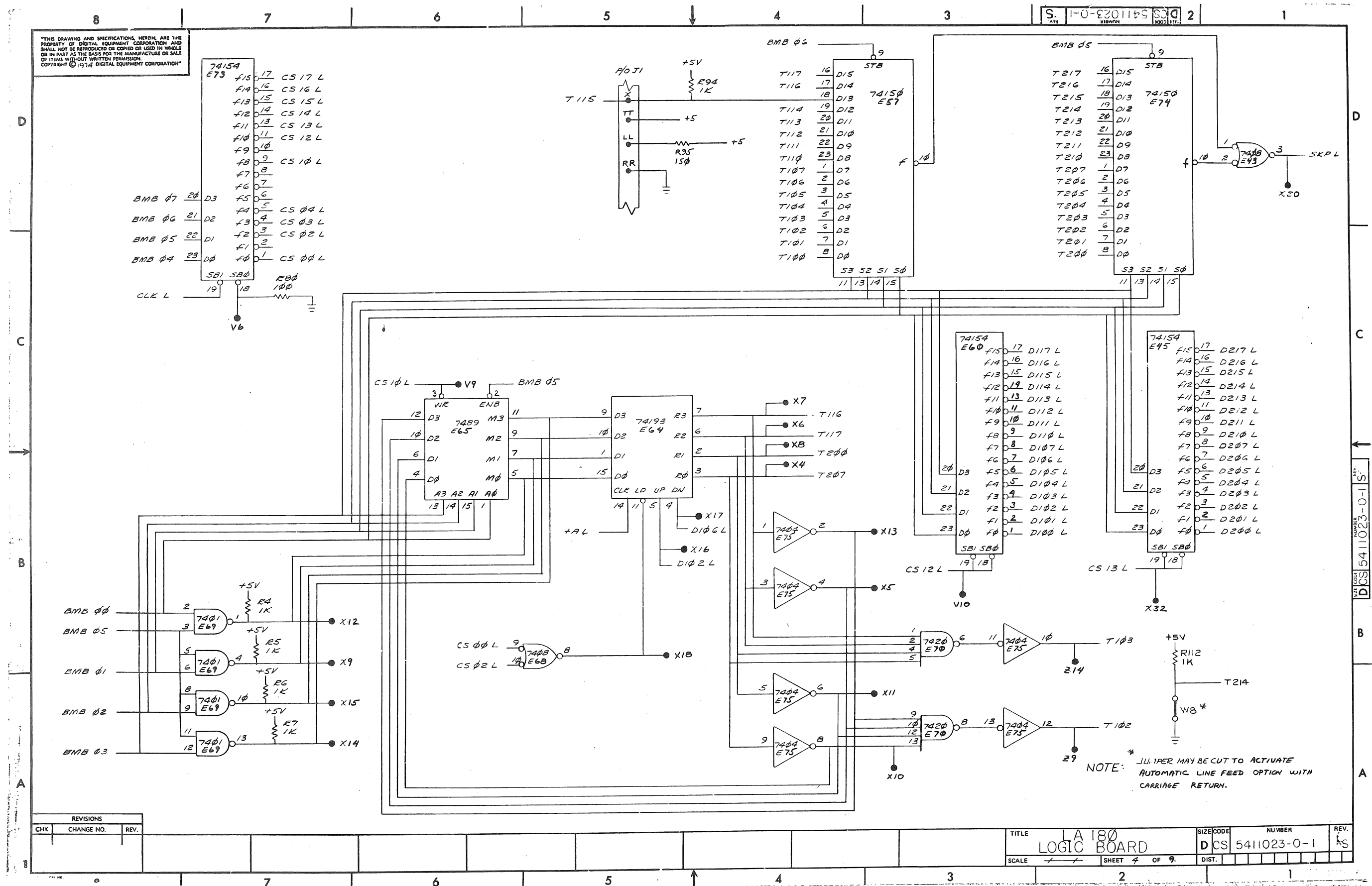
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DCS 5411023-0-1

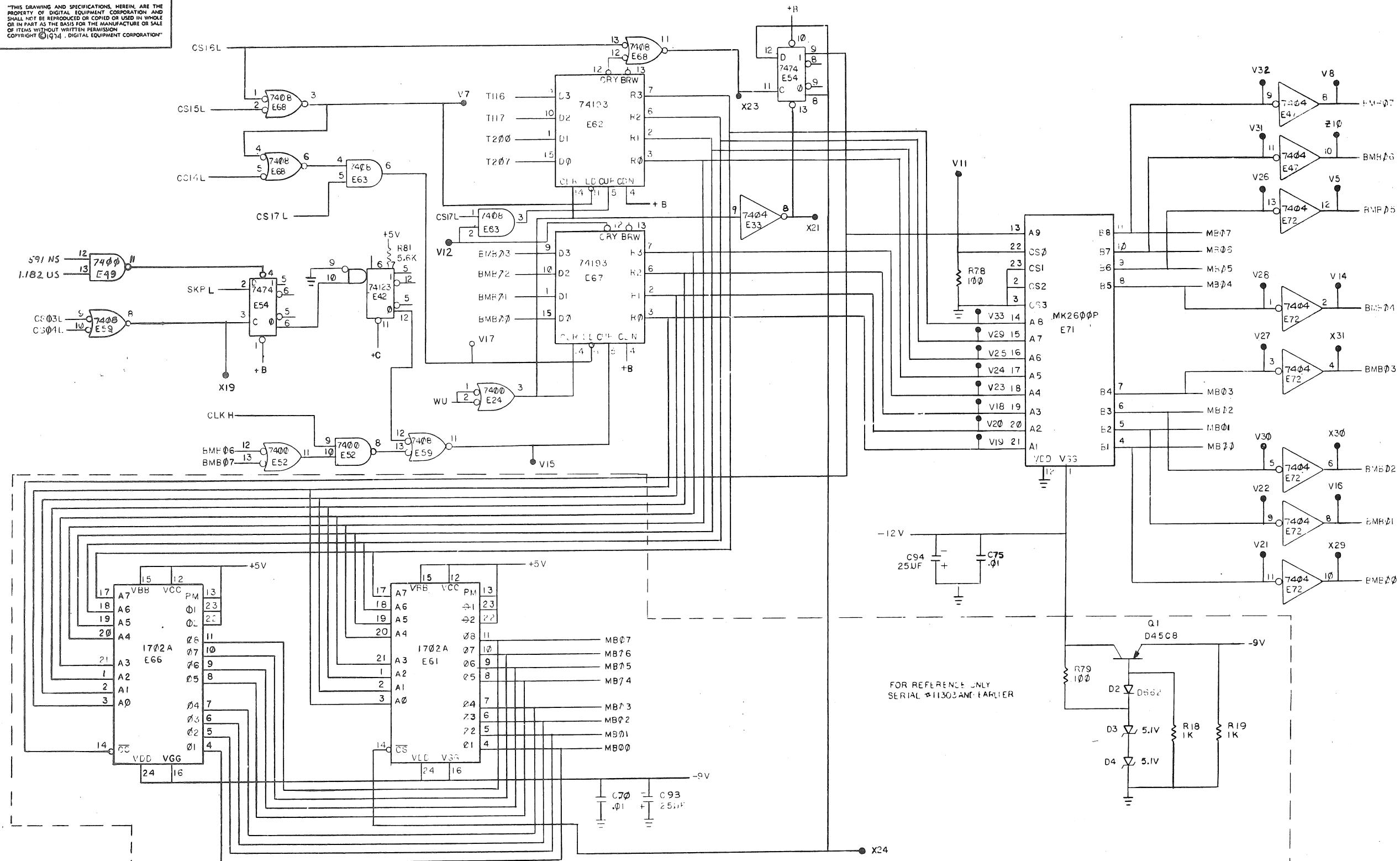


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE LA180 LOGIC BOARD
 SIZE CODE DCS 5411023-0-1
 NUMBER 1
 REV. 1S



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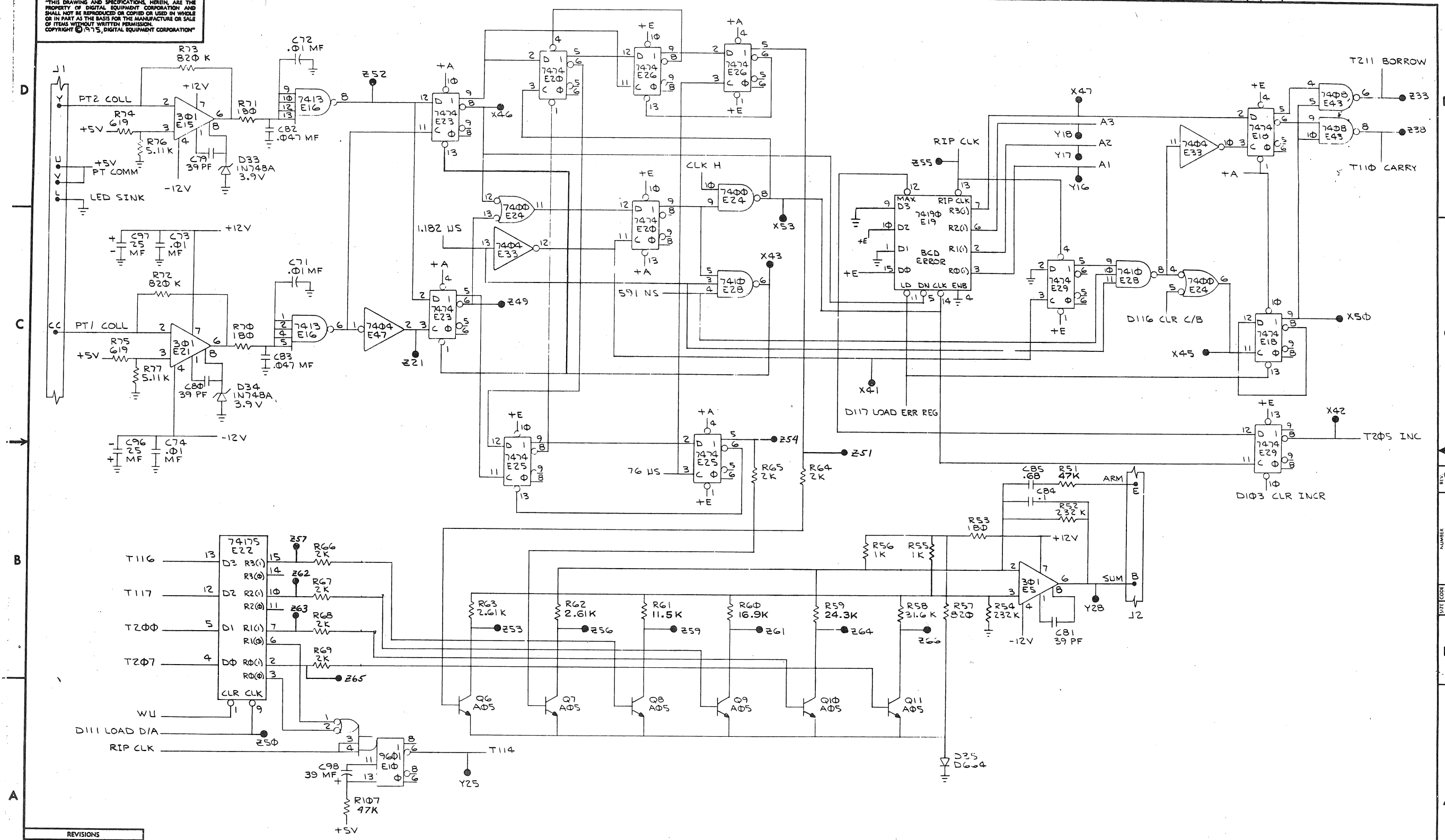
FOR REFERENCE ONLY
SERIAL #11303 AND EARLIER

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE LA180 LOGIC BOARD		SIZE CODE D CS 5411023-0-1	NUMBER 1	REV. S
SCALE	SHEET 6 OF 9	DIST.		

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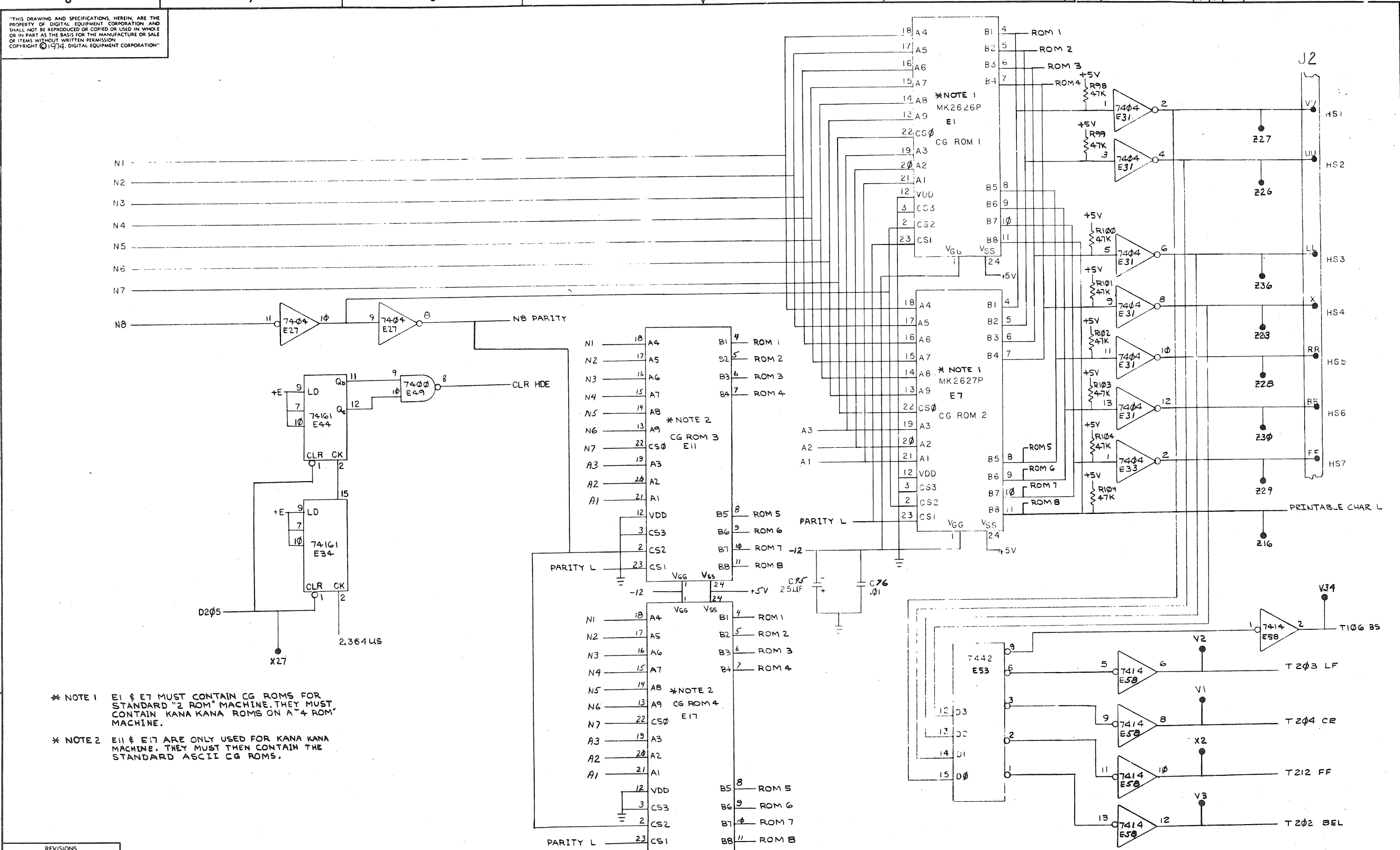
REV. 1-0-22011795 D 2 1-0-22011795



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE LA180 LOGIC BOARD
 SCALE SHEET 7 OF 9
 SIZE CODE D CS
 NUMBER 5411023-0-1
 REV. S

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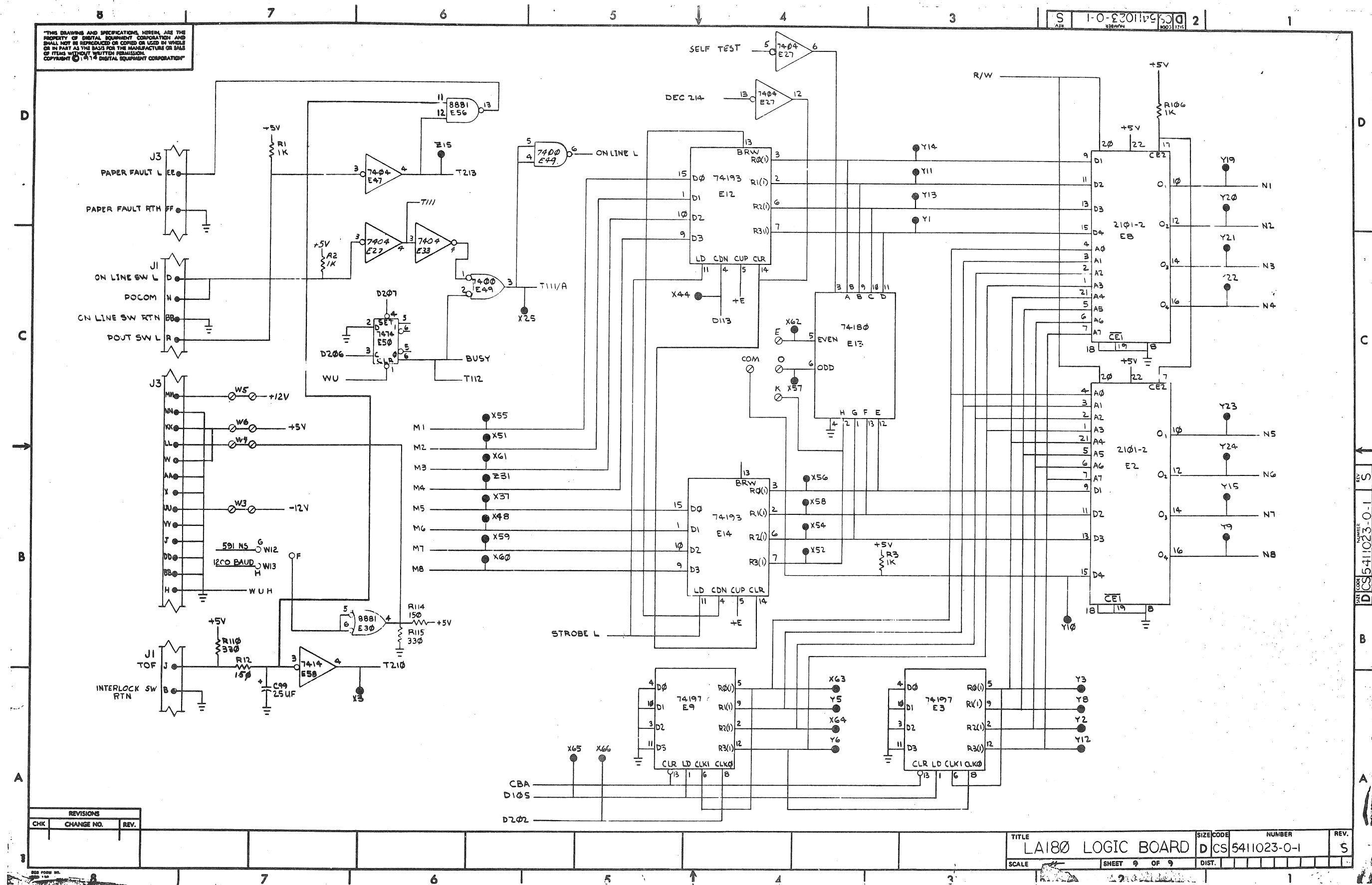


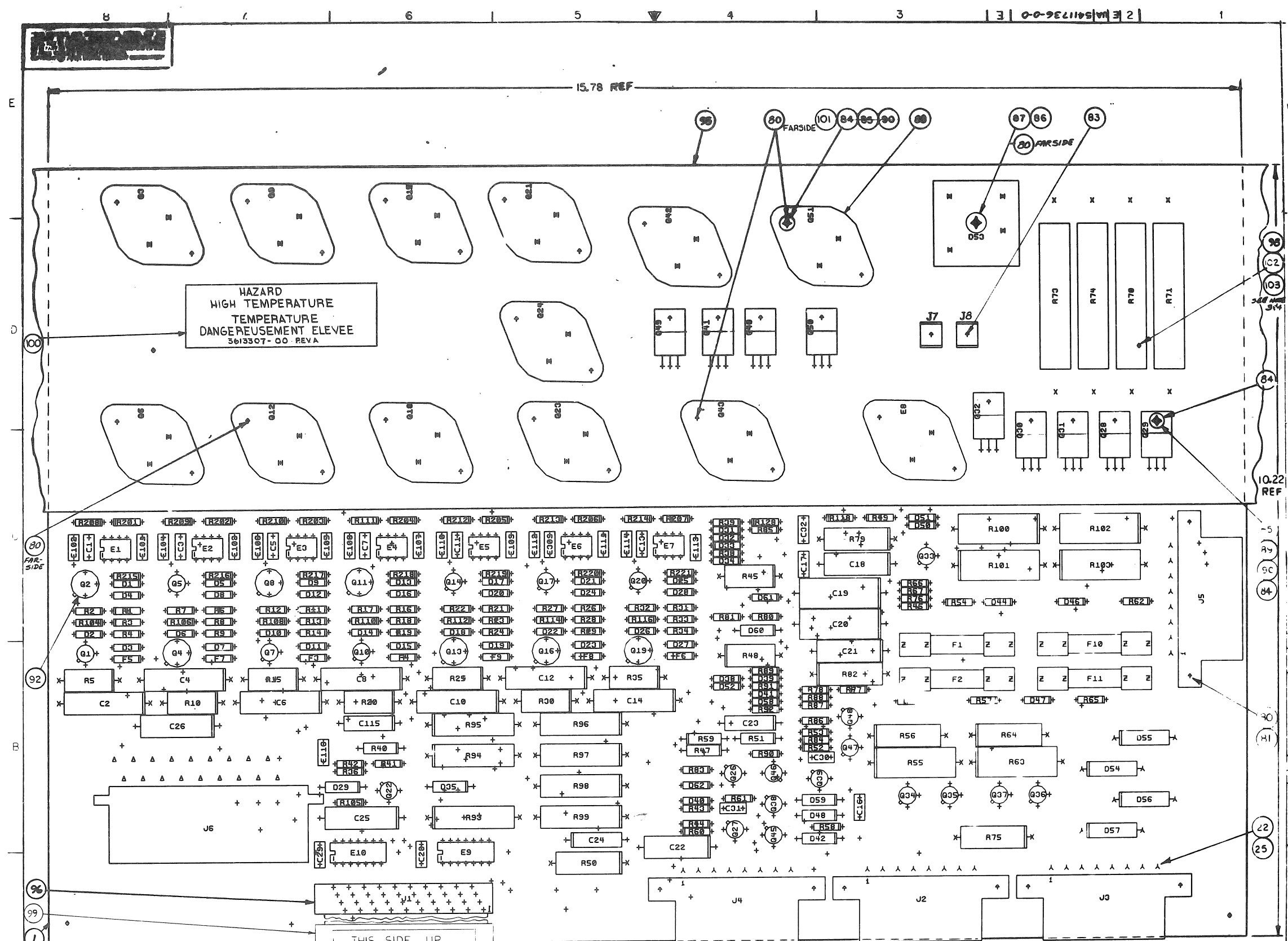
* NOTE 1 E1 & E7 MUST CONTAIN CG ROMS FOR STANDARD "2 ROM" MACHINE. THEY MUST CONTAIN KANA KANA ROMS ON A "4 ROM" MACHINE.

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

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE	CODE	NUMBER				REV.
LA180 LOGIC BOARD		D	CS	5411023-0-1				S
SCALE $\frac{1}{8}$		SHEET 8 OF 9		DIST.				





- NOTES:
1. THE WIDTH BETWEEN TOOLING HOLES IS 16.50.
 2. KEY: J2 PIN 4 J4 PIN2
J3 PIN 5 J5 PIN3
 3. INSTALL WASHER, ITEM 98 ON FAR SIDE OF BOARD 2 PLACES.
 4. INSTALL WASHER BETWEEN HEAT SINK AND BOARD 2 PLACES, ITEM 103

CHANGE NO	REV	DATE	BY	CHK
1	1	12/15/77	J. BILLO	

HOLE DATA	
SYMBOL	FIN HOLE SIZE
PLATED	
NON PLATED	
QTY.	
OFF GRD HLE	
DRILL SIZE	

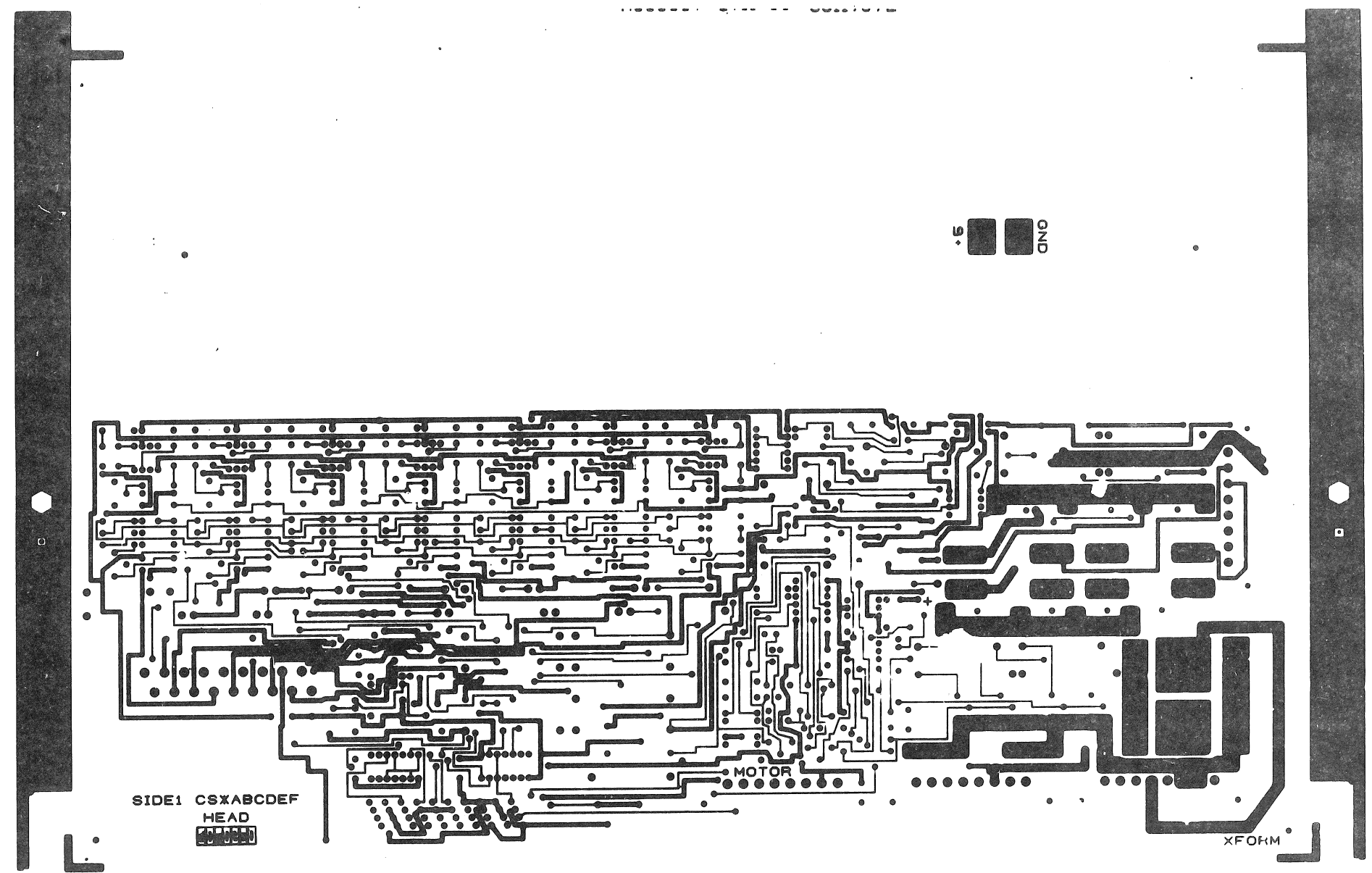
BOARD FABRICATION INFORMATION	
PANEL SIZE	12.50 X 17.00
PANEL DATA DVC.#	
PANEL MAT'L	065 THK
QTY. OF LAYERS	2
COPPER THICKNESS	2 OZ
PTH. X PRINT AND ETCH	
MODULE INSERTED	100 TIMES OR MORE

SIGNATURES		DATE	digital
DRN		12/15/77	
CHK'D		12/15/77	
ENG.		12/15/77	
PROJ. ENG.		12/15/77	
PROD.			
SCALE	2/1		
SHT.	1 OF 3		
NEXT NUMBER ASSY. BDD-5411736-0			

TITLE	LAIRB
POWER BOARD	
0120 CODE	NUMBER
EUA 5411736-0-0	REV
ETCH REV. E	

ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED.
TOLERANCES: .010" MAXIMUM FOR ALL DIMENSIONS.
HOLE SIZES: .015" MINIMUM FOR ALL DIMENSIONS.
MATERIAL: ALUMINUM 6061-T6
DATE: 10/77
DESIGN: 10/77

J
H
F
E
D
C
B
A



5. GND

SIDE1 CSXABCDEF
HEAD

MOTOR

XFORM

REV. 10/77

8

7

6

5

4

4

3

2

1

LA 180
POWER BOARD
REV. 10/77
5411796-0-0

1. COMPOUND (ITEM 84) TO BE USED ON BOTH SIDES OF ALL INSULATORS (ITEMS 88, 89) AND D33.
2. THIS SIDE UP* STICKER TO BE INSTALLED ON CABLE CONNECTOR PL AS SHOWN.
3. CONNECTORS:
 - J1 - J1 LOGIC
 - J2 - FILTER CAPS
 - J3 - LINE VOLTAGE
 - J4 - CARRIAGE MOTOR
 - J5 - LINE FEED MOTOR
 - J6 - HEAD CABLE

[illegible]

QTY		REF. DESIGNATION		DESCRIPTION		PART NO.		ITEM NO.	
FIRST USED ON OPTION MODEL		PARTS LIST							
ETCH BOARD REV.		E							
		DRN		DATE		digital			
		CHK'D		DATE					
		ENG'D		DATE					
		PROG ENLS		DATE					
		PROD.		DATE					
		NEXT HIGHER ASSY				TITLE			
						LA180 POWER BOARD			
DEC NO.		EIA NO.		DEC NO.		EIA NO.		SCALE	
								SHEET	
								OF 5	
								D	
								CS	
								REV.	
								N	
								D	
								CS	
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								REV.	
								N	
								D	
								CS	
								REV.	

digital

LA180
POWER BOARD

SIZE	CODE	NUMBER	REV.
D	CS	5411021-0-1	N
DIST.			

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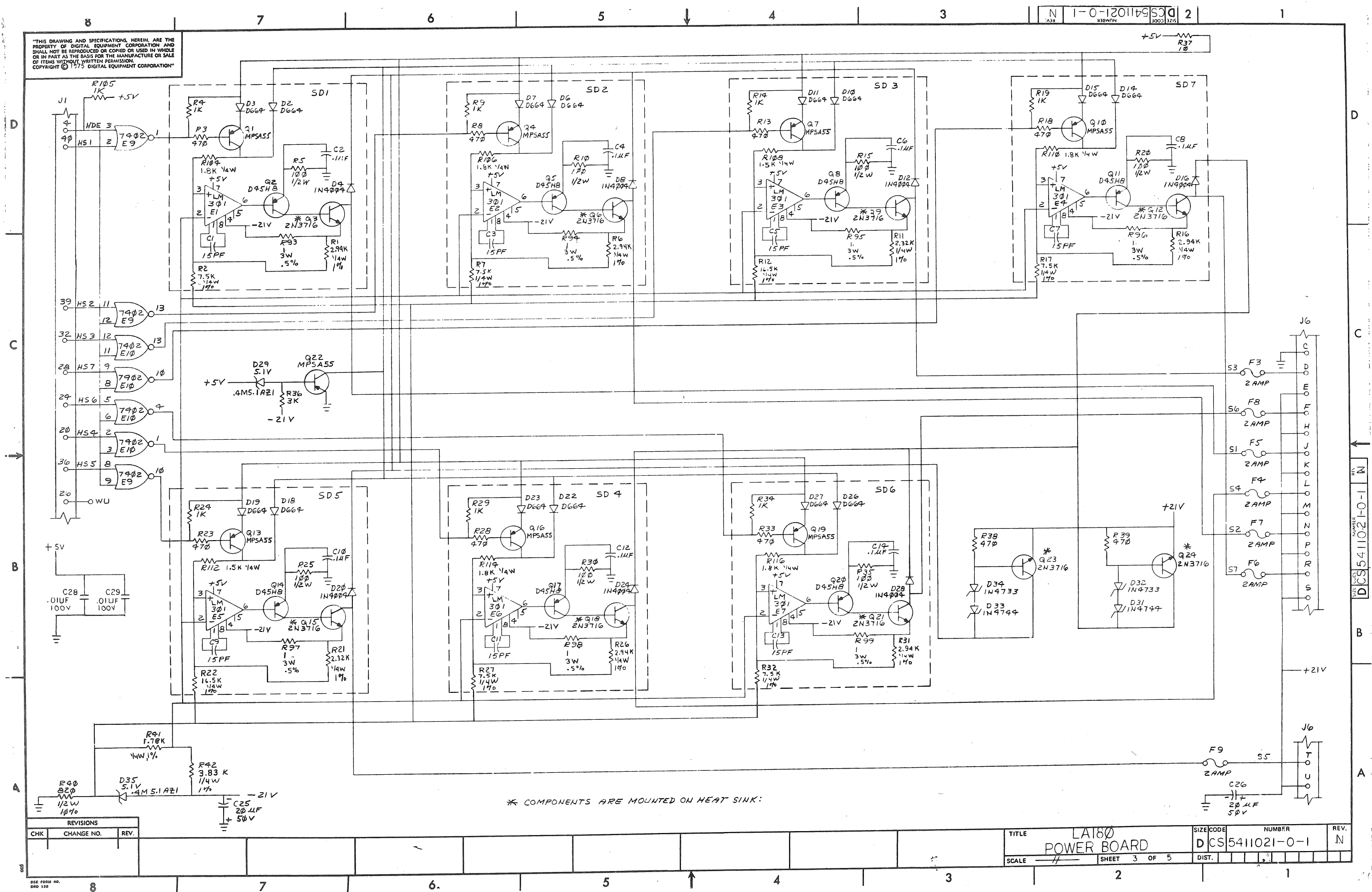
PARTS LIST				
QTY	REF DESIGNATIONS	DESCRIPTION	PART NO.	ITEM NO.
REF		X-Y COORDINATE HOLE LOCATION	KCO-5411021-0-4	1
REF		ASSY/DRILLING HOLE LAYOUT	EAM-5411021-0-5	2
REF		MODULE ECO HISTORY	B-MH-5411021-0-6	3
1		ETCHED CIRCUIT BOARD	5011020	4
3	C18, C21, C22	CAP 25UF, 25V, 10% +75% AL EL.	1000075-00	5
6	C16, C17, C28, C29-C31	CAP .01UF, 100V 20% DISC	1001610-01	6
1	C19	CAP .22UF, 110V, 10% MYLAR	1000037-00	7
1	C20	CAP 190UF, 12V, 20% AL. EL.	1009433-00	8
2	C25, C26	CAP 20UF, 50V, 10% +75% AL EL.	1002839-00	9
1	C24	CAP 1.5UF, 35V, 10% S.TANT	1009725-00	10
7	C13, C5, C7, C9, C11, C13	CAP 15PF, 100V, 5% D.M.	1002427-00	11
8	C24, C4, C6, C10, C12, C14, C32	CAP .1UF, 100V, 20% DISC	1000030-00	12
1	C23	CAP .33UF, 20V, 10% S.TANT	1005328-00	13
22	D2, D3, D6, D7, D10, D11, D14, D15, D18, D19, D26, D27, D28, D29, D30, D31, D32, D33, D34, D35, D36, D37, D38, D39, D40, D41, D42, D43, D44, D45, D46, D47, D48, D49, D50, D51, D52, D53, D54, D55, D56, D57, D58, D59, D60, D61, D62	DIODE D664	1100114-00	14
2	D31, D33	DIODE IN4744	1105698-00	15
13	D4, D8, D12, D16, D20, D28, D46, D47, D49, D45, D50, D51, D52	DIODE IN4004	1105796-00	16
4	D54 THRU D57	DIODE IN4721	1110182-00	17
1	D53	DIODE BRIDGE 21V	1110714-00	18
4	D29, D35, D59, D60	DIODE .4M 5.1A 21.5V, 1% ZENER	1105873-00	19
2	D32, D34	DIODE IN4733	1110488-00	20
1	D60	DIODE IN4744	1100122-00	21
2	D92, D98	DIODE IN748A	1100122-00	22
4		KEYING PLUG, MATE-N-LOK	1211595-00	23
4	J2, J3, J4, J5	CONN MATE-N-LOK B SKT	1209390-00	24
28		SOCKET PC, MATE-N-LOK	1209456-01	25
2	R52, R60	RES 2K, 1/4W, 5%	1302388-00	26
1	R47	RES 39, 1/2W, 5%	1302336-00	27
7	R93 THRU R99	RES 1, 3W, 5% W.W.	1312547-00	28
4	R100 THRU R103	RES 4, 5W, 5% W.W.	1311624-00	29
1	R67	RES 100, 1/4W, 5%	1300229-00	30
1	R76	RES 18, 1/4W, 5%	1302124-00	31
2	R73, R74	RES 100, 10W, 5% W.W.	1310597-00	32
7	R5, R10, R15, R20, R25, R30, R35	RES 100, 1/2W, 5%	1300228-00	33
5	R44, R58, R92, R108, R112	RES 1.5K, 1/4W, 5%	1300391-00	34
1	R84	RES 220, 1/4W, 5%	1300271-00	35
2	R56, R64	RES 150, 2W, 5% W.W.	1305524-00	36
2	R55, R63	RES 150, 5W, 5% W.W.	1301898-00	37
1	R83	RES 270, 1/4W, 5%	1301972-00	38
1	R50	RES 390, 2W, 5%	1301864-00	39
1	R75	RES 270, 2W, 10%	1300288-00	40
1	R82	RES 300, 2W, 5%	1309855-00	41
2	R78, R81	RES 390, 1/4W, 5%	1300309-00	42
1	R79	RES 470, 2W, 5%	1303062-00	43
2	R85, R86	RES 150, 1/4W, 5%	1300250-00	44
2	R51, R59	RES 300, 1/2W, 5%	1300291-00	45
9	R43, R4, R9, R14, R19, R24, R29, R34, R105	RES 1K, 1/4W, 5%	1300365-00	46

PARTS LIST				
QTY	REF DESIGNATIONS	DESCRIPTION	PART NO.	ITEM NO.
2	R45, R48	RES 560, 1W, 5%	1303048-00	47
3	R77, R80, R91	RES 3.9K, 1/4W, 5%	1300444-00	48
2	R40, R41	RES 4.7K, 1/4W, 5%	1300447-00	49
3	R53, R61, R66	RES 10K, 1/4W, 5%	1300479-00	50
2	R88, R89	RES 464, 1/4W, 1%	1303047-00	51
2	R87, R90	RES 619, 1/4W, 1%	1305126-00	52
15	R3, R8, R13, R18, R23, R33, R38, R28, R39, R46, R49, R54, R57, R62, R65	RES 470, 1/4W, 5%	1300316-00	53
1	R40	RES 820, 1/2W, 10%	1300356-00	54
1	R36	RES 3K, 1/4W, 5%	1300432-00	55
5	R2, R7, R17, R27, R32	RES 7.5K, 1/4W, 1%	1305322-00	56
1	R41	RES 1.78K, 1/4W, 1%	1302612-00	57
5	R1, R6, R16, R26, R31	RES 2.94K, 1/4W, 1%	1301981-00	58
1	R42	RES 3.83K, 1/4W, 1%	1309413-00	59
2	R11, R21	RES 2.32K, 1/4W, 1%	1312545-00	60
9	Q3, Q6, Q9, Q12, Q15, Q18, Q23, Q24, Q21	TRANS 2N3716	1503069-00	61
2	Q42, Q43	TRANS 3715	1503068-00	62
1	Q51	TRANS 2N3791	1509581-00	63
2	Q38, Q39	TRANS 65318	1509338-00	64
6	Q26, Q36, Q39, Q47, Q48, Q33	TRANS MPS A05	1510705-00	65
13	Q37, Q35, Q1, Q4, Q7, Q10, Q13, Q16, Q19, Q27, Q22, Q45, Q46	TRANS MPS A55	1510706-00	66
5	Q41, Q28, Q30, Q49, Q32	TRANS TIP31A	1512590-00	67
4	Q40, Q29, Q31, Q50	TRANS TIP32A	1512589-00	68
7	Q2, Q5, Q8, Q11, Q14, Q17, Q20	TRANS D45HB	1510708-00	69
2	E9, E10	IC 7402	1909004-00	70
1	E8	IC LM309K REGULATOR	1910460-00	71
7	E1 THRU E7	IC LM301A OP AMP	1910282-00	72
1	J6	H802 18 PIN (MODIFIED)	5510831-00	73
2		RIVET, POP	9006960-00	74
1		HEAT SINK	7413424-00	75
4		FUSE CLIP	9009513-01	76
8		WASHER (MATE-N-LOK STANDOFF)	9006693-00	77
8		EYELET	9006732-00	78
2	F1, F2	FUSE 3 AMP SLO BLO	9007219-00	79
2		FASTON TAB	9007113-00	80
2		EYELET	9009002-00	81
26		SCREW PPH 4-40X1/2	9006013-01	82
35		NUT, KEP 4-40	9006557-00	83
1		SCREW, PPH 6-32 X15/16	9007838-01	84
1		NUT, KEP 6-32	9006560-00	85
1		CABLE, POWER BOARD	CAD-7010363-1	86
13		INSULATOR, TO-3	9006721-00	87
9		INSULATOR	9009597-00	88
AIR		COMPOUND, THERMAL JOINT	9008268-00	89
9		SCREW PPH 4-40 X7/16	9006012-01	90
7	F3 THRU F9	FUSE, PICO, 2 AMP	1211751-00	91
1		LABEL	3611567-00	92
5	R104, R106, R110, R114, R116	RES 1.8K, 1/4W, 5%	1300398-00	93
2	R12, R22	RES 16.5K, 1/4W, 1%	1312546-00	94
14"	WIRE	WIRE, AWG 14, GREEN	9107370-55	95
2	R70, R71	RES. 60, 10W, 5%	1312997	96

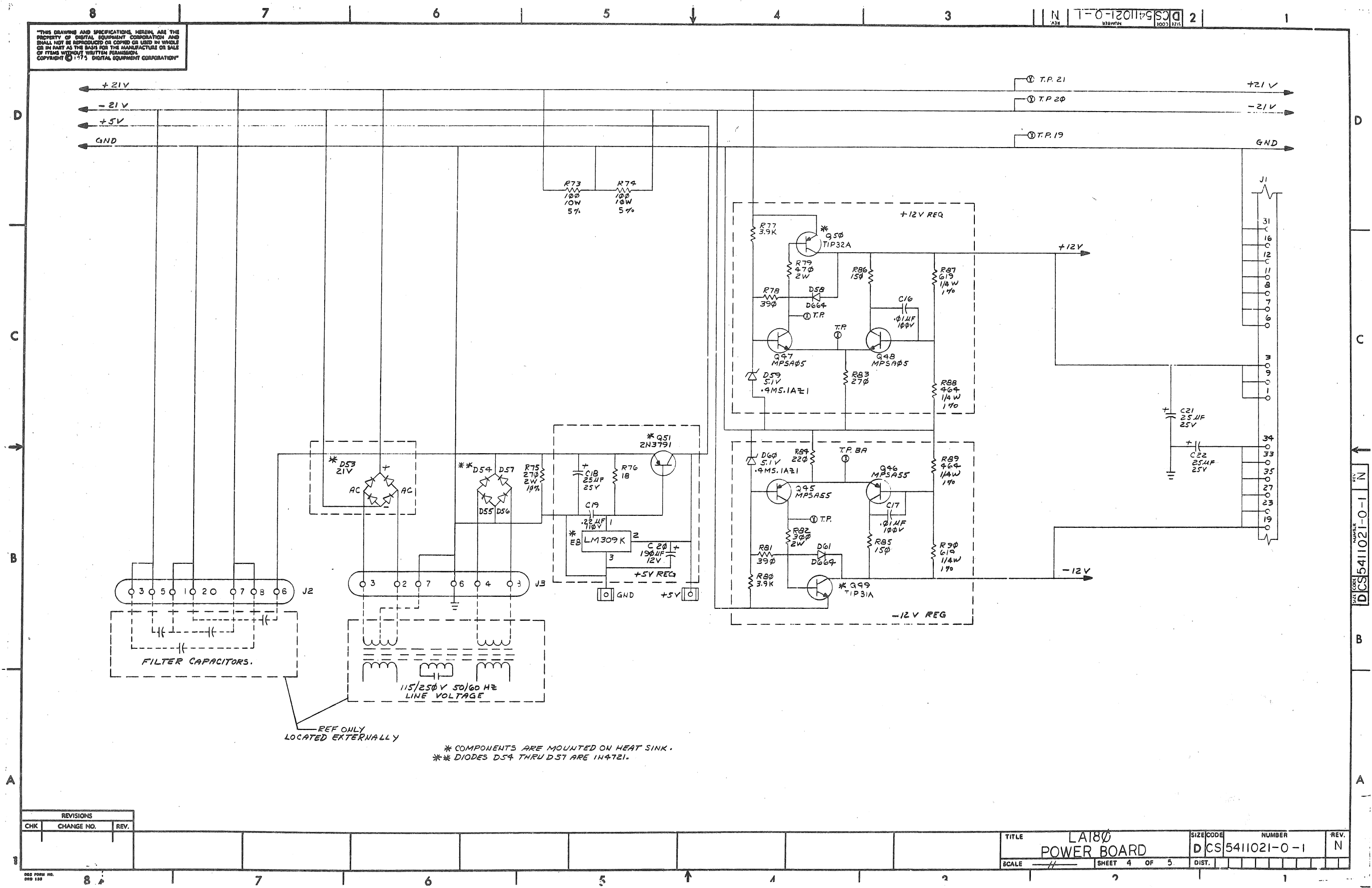
PARTS LIST				
QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1	R37	RES 10, 1/4W, 5%	1301317-00	97
2	R117, R118	RES 100, 1/4W, 5%	1310881-03	98
1		LABEL, ADHESIVE BACKED, PRINTED	3613307-0-0	99

REVISIONS		
CHK	CHANGE NO	REV.

TITLE		SIZE/CODE	NUMBER	REV.
LA180 POWER BOARD		D CS	5411021-0-1	N
SCALE	SHEET 2 OF 5	DIST.		



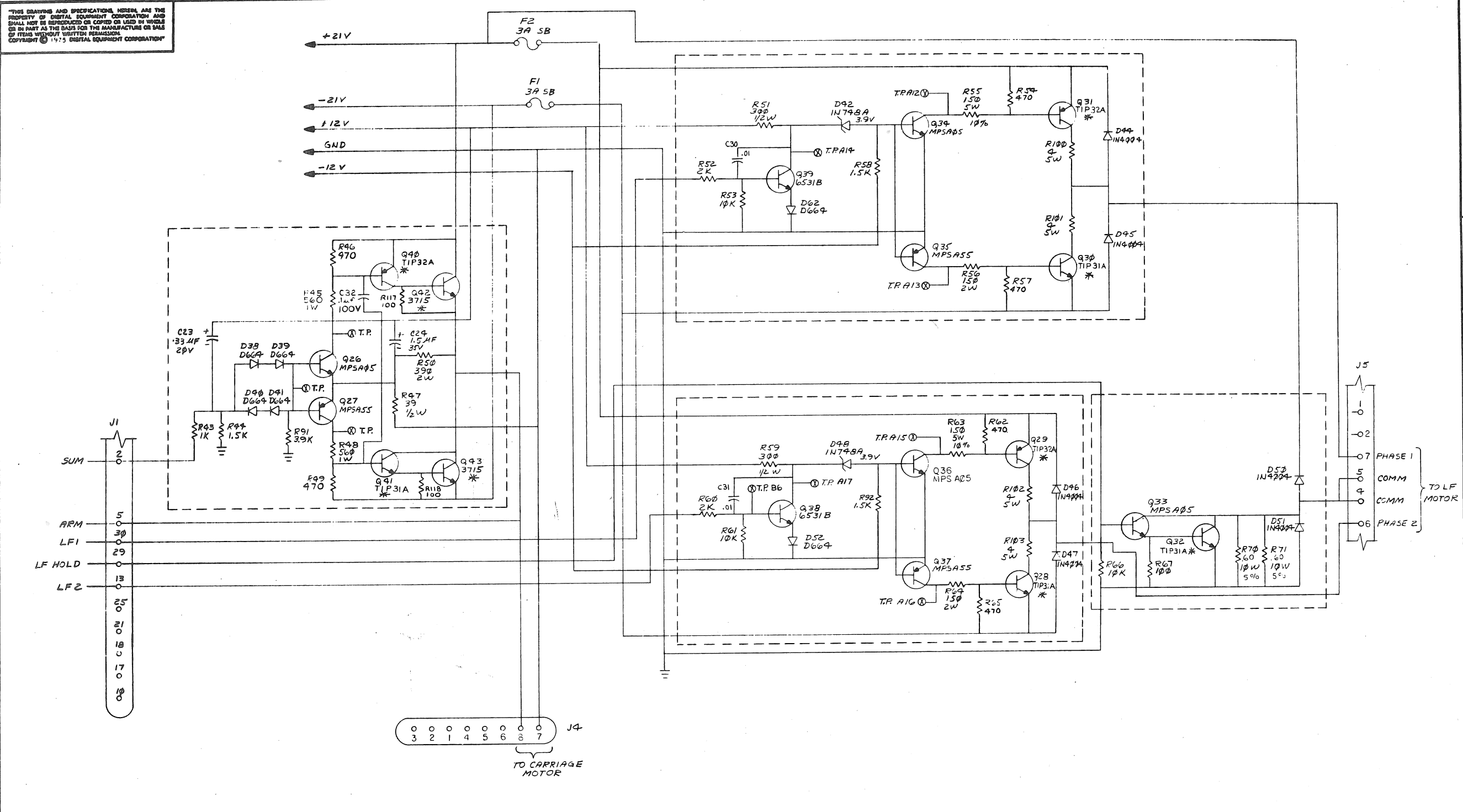
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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	LA180 POWER BOARD	SIZE CODE	NUMBER	REV.
SCALE	1/16"	SHEET	4 OF 5	N
DIST.				

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* COMPONENTS ARE MOUNTED ON HEAT SINK.

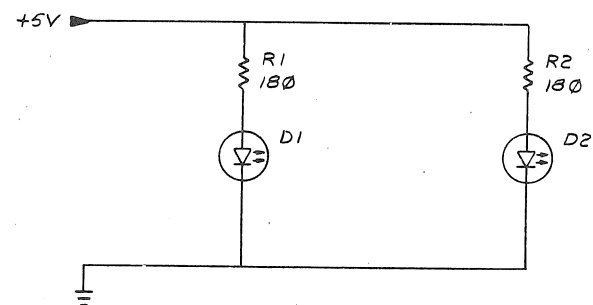
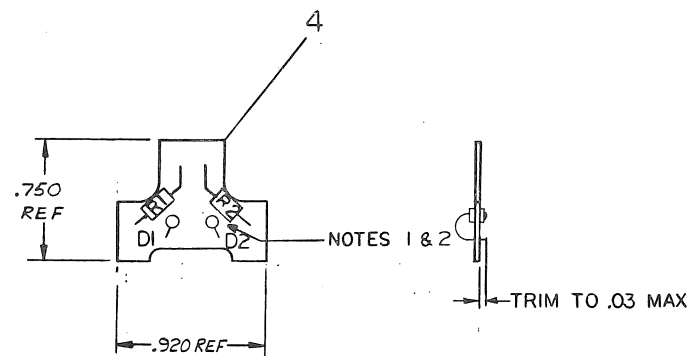
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		LA180 POWER BOARD	SIZE CODE	NUMBER	REV.
SCALE		SHEET 5 OF 5	DIST.	1	N

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- NOTES:
1. HEAT APPLIED TO D1 AND D2 DURING SOLDERING SHALL NOT EXCEED 285°C FOR A PERIOD OF 15 SECONDS.
 2. FINISHED HOLE SIZE FOR MOUNTING D1 AND D2 SHALL BE .078 MIN. .083 MAX



REF		X-Y COORDINATE HOLE LOCATION	K-07-5410991-0-4	1
REF		ASSY/DRILLING HOLE LAYOUT	D-AH-5410991-0-5	2
REF		MODULE ECO HISTORY	B-MH-5410991-0-6	3
1		ETCHED CIRCUIT BOARD	DIA-5010790-0-0	4
2	R1, R2	RES 180 1/4W 5%	1301322	5
2	D1, D2	LIGHT EMITTING DIODE	1111907	6

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
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PARTS LIST				
ETCH BOARD REV	B			

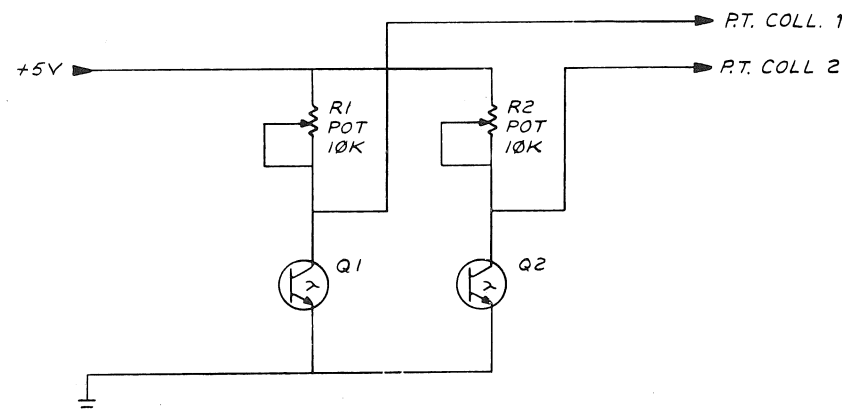
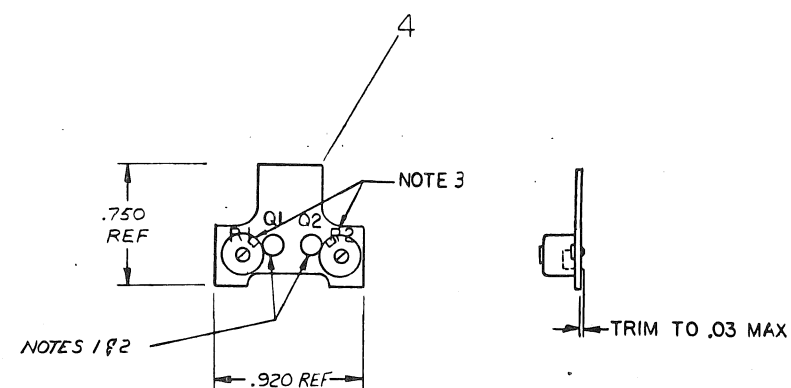
DRN. <i>J. Bitto</i>	DATE 5/11/79	 DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE LA36 ENCODER PC BOARD LED
CHK'D. <i>J. Bitto</i>	DATE 5-2-79		
ENG. <i>Edmund</i>	DATE 7-12-79		
PRG. ENG. <i>J. Bitto</i>	DATE 7-12-79		
PRG. <i>J. Bitto</i>	DATE 7-15-79		
NEXT HIGHER ASSY			
DEC NO.	EIA NO.	DEC NO.	EIA NO.
SEMICONDUCTOR CONVERSION CHART			
SCALE 1 OF 1		SHEET 1 OF 1	

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NOTES:

1. HEAT APPLIED TO Q1 AND Q2 DURING SOLDERING SHALL NOT EXCEED 285° C FOR A PERIOD OF 15 SECONDS.
2. FINISHED HOLE SIZE FOR MOUNTING Q1 AND Q2 SHALL BE .078 MIN., .083 MAX.
3. R1 AND R2 MUST BE ORIENTED AS SHOWN, WITH NOTCH TOWARD CENTER OF BOARD.

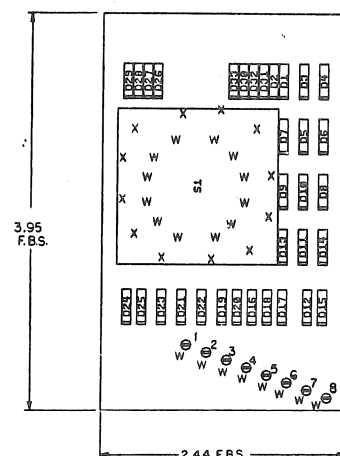
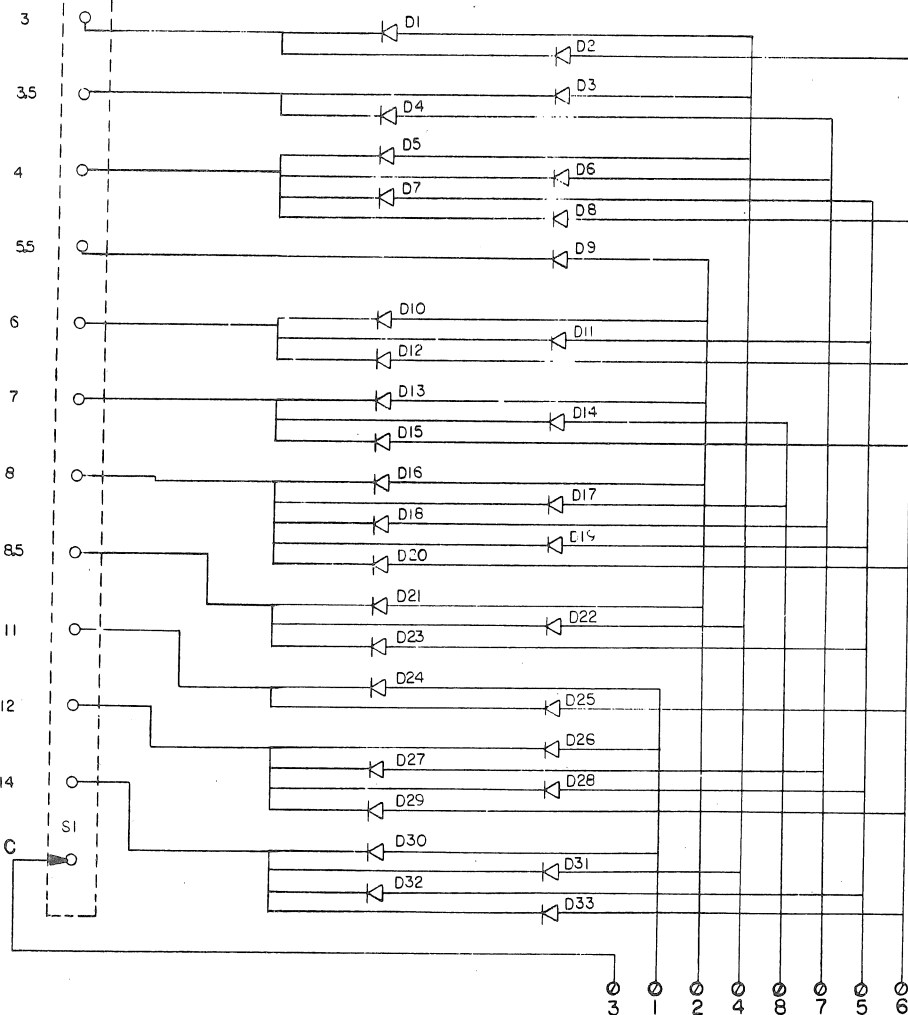


REF		X-Y COORDINATE HOLE LOCATION	K-CO-5411049-0-4	1
REF		ASSY/DRILLING HOLE LAYOUT	D-AH-5411049-0-5	2
REF		MODULE ECO HISTORY	B-MH-5411049-0-6	3
REF		ETCHED CIRCUIT BOARD	D-IA-5010790-0-0	4
2	R1, R2	POTENTIOMETER 10K	1309150-12	5
2	Q1, Q2	PHOTO TRANSISTOR	1511906	6

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
ETCH BOARD REV B				
DRN. DATE 5/8/74				
CHKD. DATE 11/1				
ENG. DATE 7-12-74				
PROD. DATE 7-12-74				
NEXT HIGHER ASSY				
TITLE LA36				
ENCODER PC BOARD				
PHOTOTRANSISTOR				
SIZE CODE NUMBER REV.				
DCS 5411049-0-1 C				

SEMICONDUCTOR CONVERSION CHART

SIZE CODE NUMBER REV.
DCS 5411049-0-1 C



6		SPLIT LUG	9006735-00	7
33	DI-D33	DIODE D664	1100114-00	6
1	SI	SWITCH, SINGLE POLE -12 POSITION	1212443-00	5
1		ETCHED CIRCUIT BOARD	C-MD-5011652-0-0	4
REF		MODULE ECO HISTORY	B-MH-5411653-0-6	3
REF		ASSY/DRILLING HOLE LAYOUT	D-AH-5411653-0-5	2
REF		X-Y COORDINATE HOLE LOCATION	K-CO-5411653-0-4	1
QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.

[illegible]

DRN.	DATE
31 Present	7, 2/75

CHKD.	DATE	
ENG.	DATE	

		V. L. H. K.	6/18/75	TITLE	6 LPI FORM
		PROJ. ENG.	DATE		
		V. L. H. K.	6/29/75		

PROD	DATE	CONTROL
7P. 6.5	11/1/75	
NEXT HIGHER ASSY		

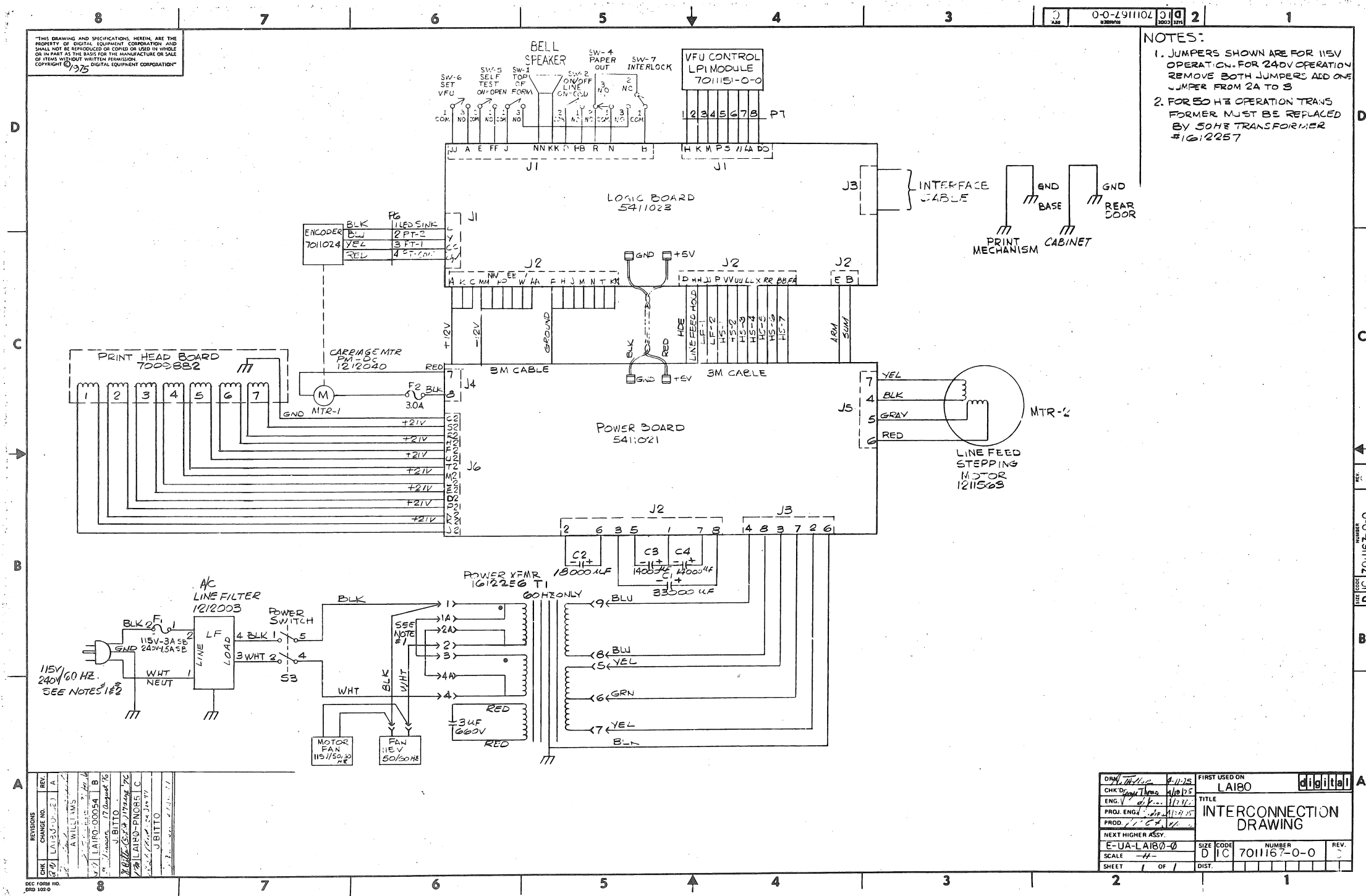
DEC NO.	EIA NO.	SIZE CODE	NUMBER	REV.
		D CS	541653-0-1	*

CONVERSION CHART	SCALE NONE		D	00	347855-01						X
	SHEET	OF	DIST.								

2 1

[illegible]

QTY		REF. DESCRIPTION		DESCRIPTION		PART NO.		NO.					
FIRST USED ON OPTION MODEL		PARTS LIST											
LA180		ETCH BOARD REV.		A									
CHK	REV.	CHANGE NO.	REVISIONS					DRN.	DATE				
								1 Page	7.2/75				
								CHK'D.	DATE				
								1 Page	4/2.1/75				
								SYS.	DATE				
								Modification	4/11/75				
								PROJ. ENG.	DATE				
								Modification	4/11/75				
								PROD.	DATE				
								7/1/75	4/11/75				
NEXT HIGHER ASSY						TITLE		6 LPI FORM CONTROL					
DEC NO.		EIA NO.		DEC NO.		EIA NO.		SIZE CODE		NUMBER		REV.	
								D CS		5411653-0-1		*	
SEMICONDUCTOR CONVERSION CHART								SCALE NONE					
SHEET				OF				DIST.					



DIGITAL EQUIPMENT CORPORATION
MAYNARD MASSACHUSETTS

PACKAGING INSTRUCTION

TITLE
DECwriter

REV: A
DATE: 7/75

REV: B
DATE: 1/76

MATERIAL REQUIREMENTS

Quantity	Purchase Specification No.	Description
1	9905601	Stitched Tube
1	9905601-01	Full Telescope Cap
1	9905639	Pad with Foam (LA36/LA35 only)
1	9905129-39	Poly Bag
1	9905651	Wood Skid
1	9905651-01	Wood Brace (2 X 3)
1	90-09288	Tee Nut
2	90-09290-03	3/8-16 X 3 Hex-Head Bolt
1	36-12520-0-0	Caution Tag
1	90-09634	Stain Resistant Tape (3M)
1	90-07032	Printout Cable Tie
1	9905714-02	Polypropylene Strapping
20 ft	9905129-35	Poly Bag

PACKAGING INSTRUCTIONS

Procedure

Step

1.

Lift the cover and slide the print head to the left as far as it will go. Slip the Printout Cable Tie (90-07032) around the ribbon rollers (A and B). Do not over-tighten. Fasten Caution Tag (36-12520-0-0) to tractor drive shaft. Close cover.

2.

Place Pad with Foam (9905639) (foam side down) on top of the LA36/LA35 keyboard. Tape with two (2) strips of glass filament tape (90-09634). Tape back door closed, using two (2) strips of tape.

3.

Place DECwriter on top of Skid Deck (9905651).

4.

Place all hardware and software into Poly Bag (9905129-35) and staple to deck of skid.

5.

Place one strip of CW21 (Custom Wrap) or Microfoam, over each leg of the DECwriter.

6.

Place Wood Brace (9905651-01) on top of legs *as far back as it will go* to properly align the bolt holes.

7.

Place Hex-Head Bolts (90-09290-03) through the bolt holes in the wood brace; place the Tee Nuts (90-09288) up and underneath the skid deck; then tighten down.

8.

Place a Poly Bag (9905129-39) over the DECwriter. Then, place the Stitched Tube (9905601) over and around the unit. Assemble Full Telescope Cap (9905601-01) and place on top of Stitched Tube.

9.

Strap in two places as shown in Figure 2. Use Polypropylene strapping (9905714-02).

NOTE

Make sure that the Stitched Tube is resting on the wood skid base, on all 4 sides.

ENG. *K. M. Merian*

DEC 8-1531-1031-1-R671

DRA - 129

12/20/75

APPD. *K. W. Lawrence*

SIZE A

CODE NP

NUMBER 3700131-0-0

REV B

PACKAGING INSTRUCTION

TITLE
DECwriter

REV: _____
DATE: _____

NOTE:

Make changes to "C" size original only and rephotograph.

ENG. _____

DEC-108

1/77

SIZE A

CODE SP

NUMBER 3700131-0-0

REV B

PACKAGING INSTRUCTION

TITLE
DECwriter

REV: _____
DATE: _____

NOTE:

Make changes to "C" size original only and rephotograph.

ENG. *K. M. Merian*

DEC-108

12/20/75

SIZE A

CODE SP

NUMBER 3700131-0-0

REV B

THIS IS PRINT SET

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SEQUENCE

B-DD-LAXX-KJ
E-UA-LAXX-KJ-Ø
A-SP-LAXX-KJ-2

[illegible]

REVISIONS

DATE

CHG. NO.

REV

USED ON OPTION/MODEL

LAB 30

SHEET 1 OF 2

DRN.

D. GILLEY

CHK'D.

PROJ ENG.

P. E. A. / Jan

PROD.

FIELD SERV.

Alt. Service

DATE

10/8/75

DATE

DATE

10-17-75

DATE

10-17-75

DATE

10-17-75

DATE

10-17-75

TITLE

COMPRESSED FONT

SIZE

B

CODE

DD

NUMBER

LAXX-KJ

REV

DIST

10/10/75

10/10/75

10/10/75



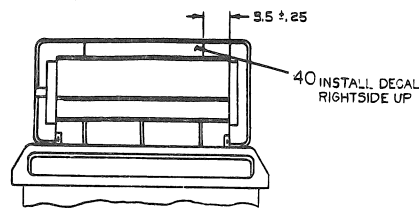
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THIS IS PRINT SET

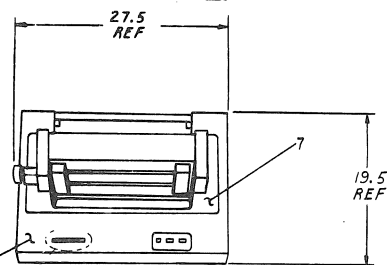
RESOURCE

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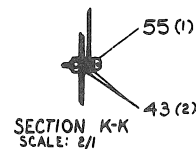
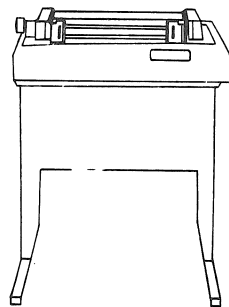
REVISIONS			USED ON OPTION/MODEL		DRW.	DATE	TITLE									
DATE	CHG. NO.	REV			A. TAYLOR	11/2/74	DECPRINTER DRAWING									
2-76	LA180-22	B			CHK'D.	DATE	DI RECTORY									
6-76	LA180-43	C			A. TAYLOR	6/18/75										
8-76	LA180-68	D			PROJ.ENG.	DATE										
12-76	LA180-100	E			B. STELTZER	6/17/75										
5-77	LA180-PN109	F			PROD.	DATE	SIZE	CODE	NUMBER				REV			
9-77	LA180-PN127	H			R. JODOIN	6/18/75	B	DD	LA180-0				L			
10-77	LAXX-PN066	J			FIELD SERV.	DATE	DIST									
11-77	LA180-PN128	K			T. MONGELLO	6/23/75										
12-77	LA180-PN131	L														



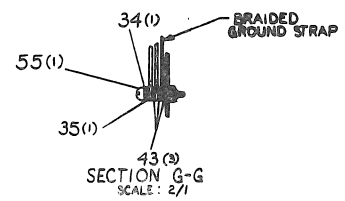
FRONT VIEW
COVER RAISED



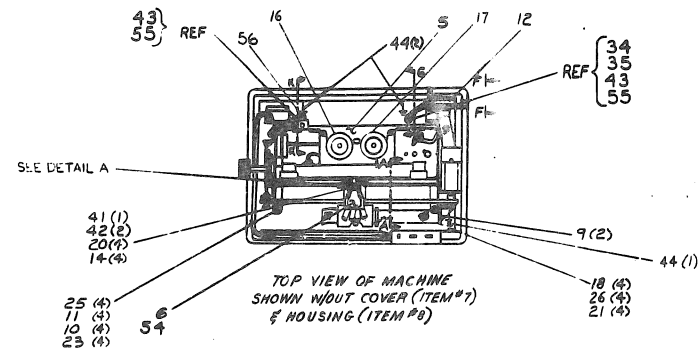
26



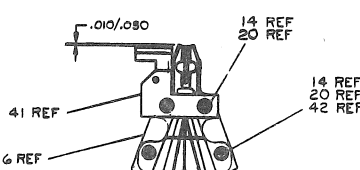
SECTION K-K
SCALE: 2/1



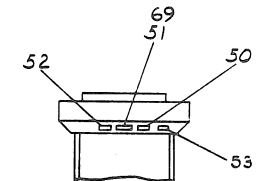
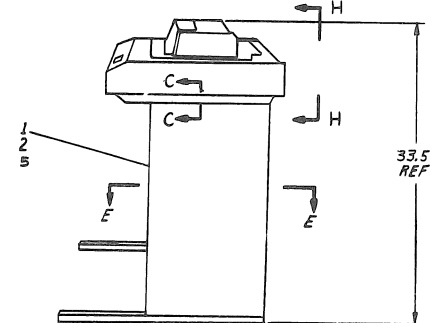
SECTION G-G
SCALE: 2/1



TOP VIEW OF MACHINE
SHOWN W/OUT COVER (ITEM #1)
& HOUSING (ITEM #8)



DETAIL "A"
PRINT HEAD AND LINE INDICATOR
SCALE: FULL



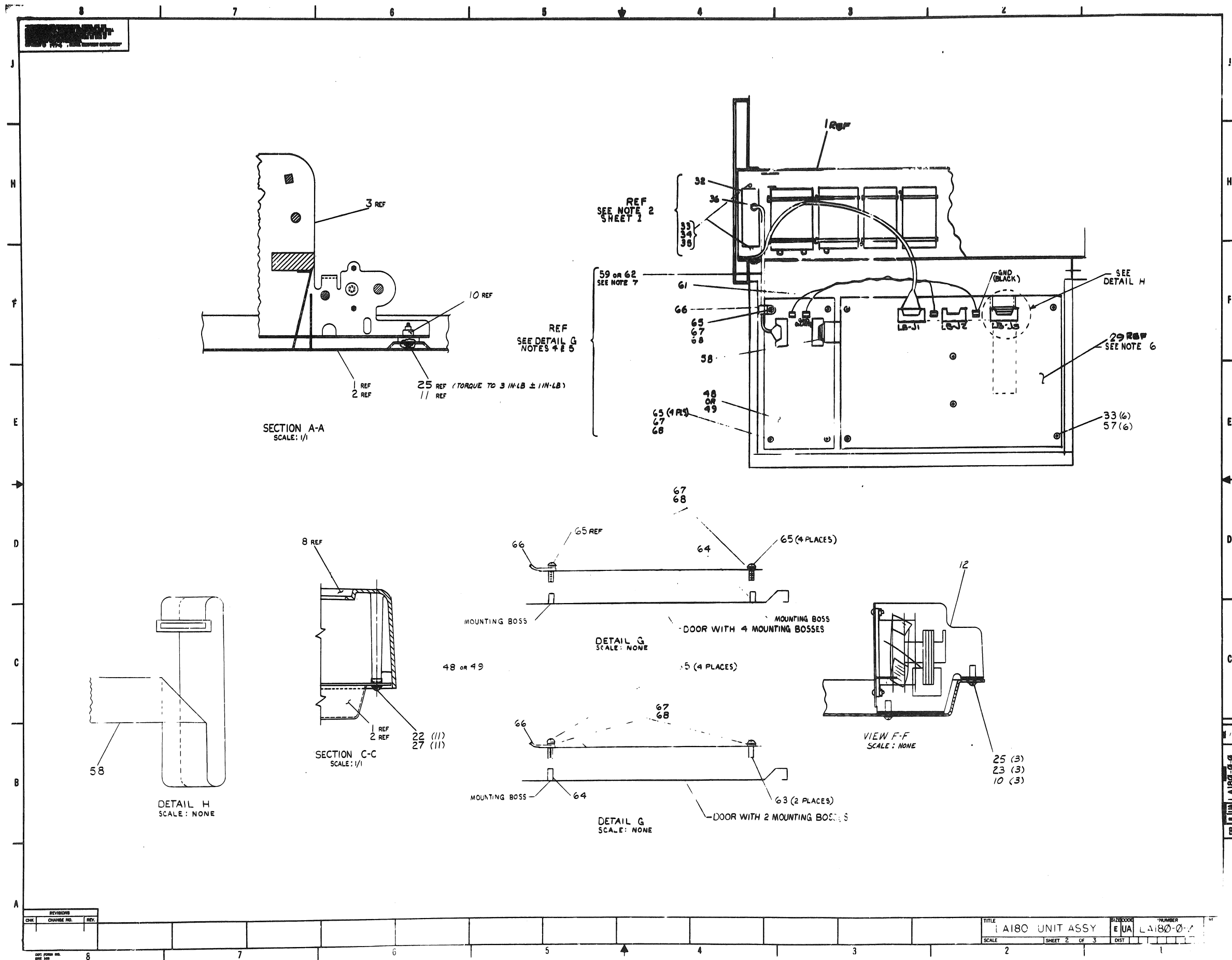
VIEW H-H
SCALE: NONE
SEE NOTE 3

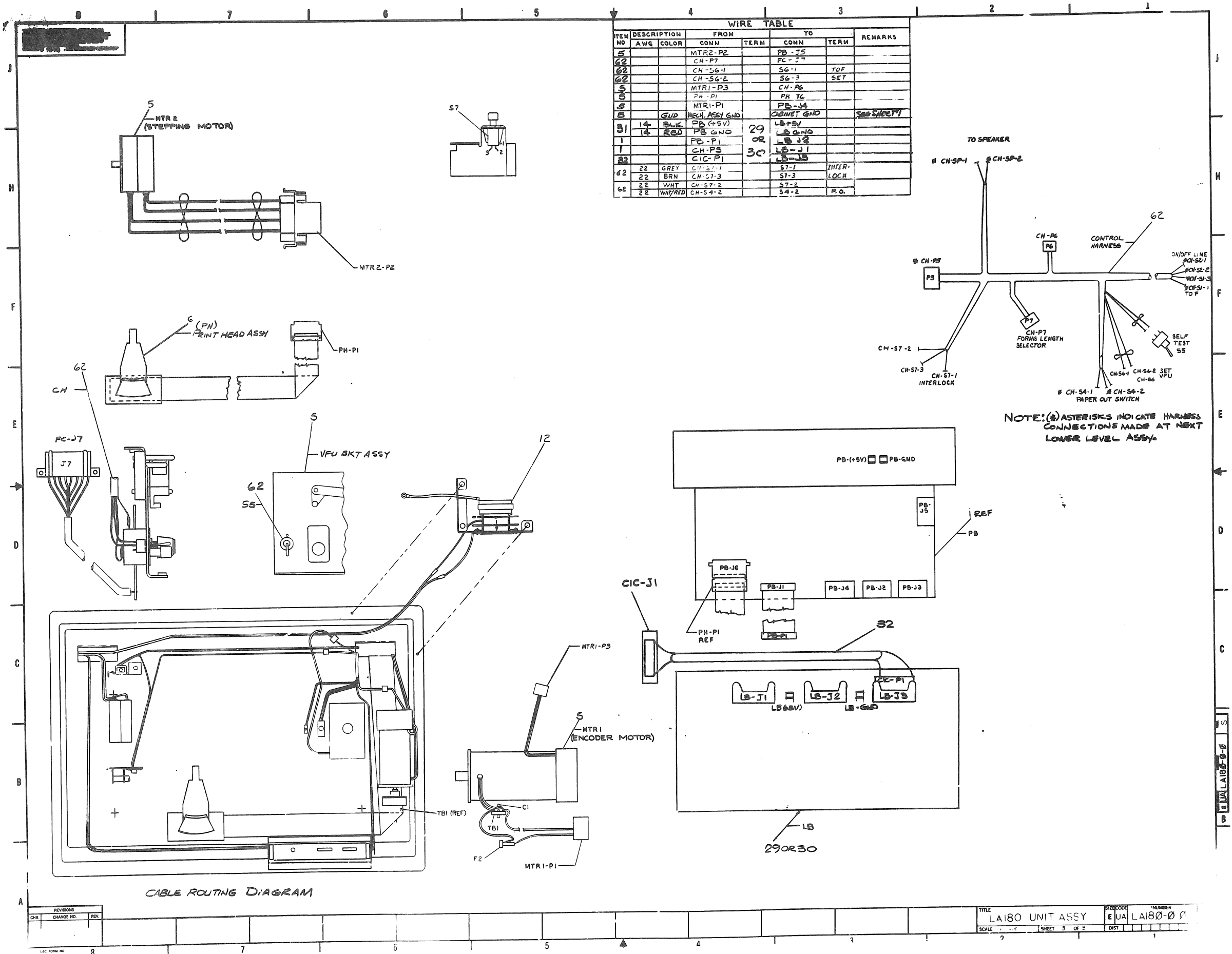
- NOTES:
1. FOR PARTS LIST SEE DRAWING # A PL-LA 180-00
 2. ITEMS # 32 (PLATE, INPUT CLAMP), #33 (2 SCREWS), #34 (2 LOCKWASHERS), #35 (2 FLAT-WASHERS) AND #36 (STRAINRELIEF) ARE TO BE SHIPPED LOOSE WITH UNIT.
 3. UL AND CSA LABELS TO BE APPLIED ONLY WHEN UNIT HAS MET ALL UL AND CSA REQUIREMENTS.
 4. ITEM 61 FOR USE WITH REV C OR LATER OF ITEM 48 OR 49.
 5. ASSEMBLE ITEMS 36, 53, 62 (63 WITH 65 67 & 68 ON DOOR WITH 2 MOUNTING BOSSES) WITH MODULE (ITEM 48 OR 49) BEFORE INSTALLING MODULE IN DOOR.
 6. SEE D-CS-5411023-0-0 FOR JUMPER CONFIGURATIONS.
 7. IF CABLE 7013 701 (ITEM 62) NOT AVAILABLE, USE BC05C-9. ITEM 60 MATES WITH ITEM 59 OUTSIDE CABINET.
 8. ITEM 51, MODEL INFORMATION TAG, IS TO BE PURCHASED AND APPLIED WITH PRE-PRINTED INFORMATION AS FOLLOWS.

MODEL	VOLTS	AMPS	HZ	PH	WIRES
ZZZZZ-ZZ	YYY	XX	W	V	U
LA180-PA	115	3	60	1	3
LA180-PB	230	1.5	60	1	3
LA180-PC	115	3	50	1	3
LA180-PD	230	1.5	50	1	3
LA180-EA	115	3	60	1	3
LA180-EB	230	1.5	60	1	3
LA180-EC	115	3	50	1	3
LA180-ED	230	1.5	50	1	3
LA180-CA	115	3	60	1	3
LA180-CB	230	1.5	60	1	3
LA180-CC	115	3	50	1	3
LA180-CD	230	1.5	50	1	3

FIRST USED ON OPTION/MODEL LA 180		QTY.	DESCRIPTION	PART NO.	ITEM NO.
DIMENSIONAL TOLERANCE DIMENSIONS ARE UNLESS OTHERWISE SPECIFIED		PARTS LIST			
MILLIMETERS INCHES ANGLES		DATE 12/1/74 12/1/74 12/1/74			
THIRD ANGLE PROJECTION		DATE 12/1/74 12/1/74 12/1/74			
MATERIAL SEE PARTS LIST		DATE 12/1/74 12/1/74 12/1/74			
FINISH		DATE 12/1/74 12/1/74 12/1/74			
SCALE: NONE		DATE 12/1/74 12/1/74 12/1/74			
SHEET 3 OF 3		DATE 12/1/74 12/1/74 12/1/74			

LA 180-PA	115	3	60	1	3
LA 180-PB	230	1.5	60	1	3
LA 180-PC	115	3	50	1	3
LA 180-PD	230	1.5	50	1	3
LA 180-EA	115	3	60	1	3
LA 180-EB	230	1.5	60	1	3
LA 180-EC	115	3	50	1	3
LA 180-ED	230	1.5	50	1	3
LA 180-CA	115	3	60	1	3
LA 180-CB	230	1.5	60	1	3
LA 180-CC	115	3	50	1	3
LA 180-CD	230	1.5	50	1	3





REVISIONS		
CHK	CHANGE NO.	REV.

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			QUANTITY / VARIATION												
PARTS LIST															
MADE BY L. TAYLOR		CHECKED	SECTION												
DATE 10/4/74		DATE 6-17-75	1												
ENG		PROD R.L. Jordan	ISSUED SECT.												
DATE 6-17-75		DATE 6/18/75	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) 60HZ		1	-	-	-	-	-	-	-	-	-	-	-
2	E-AD-7010094-2-0	CABINET ASSY W/POWER SUPPLY(230V) 60HZ		-	1	-	-	-	-	-	-	-	-	-	-
3	E-AD-7010094-3-0	CABINET ASSY W/POWER SUPPLY(115V) 50HZ		-	-	1	-	-	-	-	-	-	-	-	-
4	E-AD-7010094-4-0	CABINET ASSY W/POWER SUPPLY(230V) 50HZ		-	-	-	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	9006022-1	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-LA180-0-0		A PL		LA180-0-0				S		LA180-0-0 PN 11.3			
		SHEET 1 OF 4		DIST.											

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS					QUANTITY / VARIATION													
PARTS LIST																		
MADE BY DICK VENO			CHECKED		SECTION													
DATE 3/25/74			DATE 6-17-75		1													
ENG			PROD R. J. Goddard		ISSUED SECT.													
DATE 6-17-75			DATE 6/18/75		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		
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			1	1	1	1										
31	D-IA-7011469-0-0	C/C INTERFACE CABLE ASSY			1	1	1	1										
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			8	8	8	8	8	8	8	8	8	8	8	8		
34	9006690-00	WASHER SPLIT LOCK #8			3	3	3	3	3	3	3	3	3	3	3	3		
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	9006700	WASHER NYLON 37 0.0 x 19.10 x 0.32 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			5	5	5	5	5	5	5	5	5	5	5	5		
44	3612680-00	DECAL, GROUND SYMBOL			3	3	3	3	3	3	3	3	3	3	3	3		
TITLE		ASSY NO.		SIZE	CODE		NUMBER						REV	ECO NO.				
LA180 UNIT ASSY		E-UA-LA180-0-0		A	PL		LA180-0-0						S					
		SHEET 2 OF 4		DIST														

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS				QUANTITY / VARIATION													
PARTS LIST																	
MADE BY L. TAYLOR		CHECKED STLETZER		SECTION													
DATE 10-4-74		DATE 6-17-75		1													
ENG STELTZER		PROD R.L. JODOIN		ISSUED SECT.													
DATE 6-17-75		DATE 6-13-75		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		
45	A-DC-7414832-0-1	SERIAL NUMBER DECAL LA180		1	1	1	1	1	1	1	1	1	1	1	1		
46	7413231-0-0	UNDERWRITERS LABEL 115V		1	1	1	1	1	1	1	1	1	1	1	1		
47	7413231-1-0	UNDERWRITERS LABEL 230V		1	1	1	1	1	1	1	1	1	1	1	1		
48	5412166-YA	SERIAL OPTION MODULE (20MA)		-	-	-	-	1	1	1	1	-	-	-	-		
49	5412166-0	SERIAL OPTION MODULE (EIA)		-	-	-	-	-	-	-	-	1	1	1	1		
50	A-DC-7416197-0-2	UNDERWRITERS LABEL		1	1	1	1	1	1	1	1	1	1	1	1		
51	A-PS-3613210-01	MODEL INFO. TAG		1	1	1	1	1	1	1	1	1	1	1	1		
52	A-PS-3613211-00	C S A DECAL		1	1	1	1	1	1	1	1	1	1	1	1		
53	A-PS-3613088-00	LABEL, ADHESIVE BACKED RFI SUPPRESSION		-	-	-	1	-	-	-	1	-	-	-	1		
54	E-PS-1213365-02	HEAT SHIELD		1	1	1	1	1	1	1	1	1	1	1	1		
55	9006039-01	SCREW, PHL. PAN HD. #8-32 X .50 LG.		2	2	2	2	2	2	2	2	2	2	2	2		
56	9008340-00	CLIP, HARNESS		1	1	1	1	1	1	1	1	1	1	1	1		
57	9006634	WASHER INTERNAL LOCK #8		6	6	6	6	6	6	6	6	6	6	6	6		
58	BC08S-2	I/O CABLE		-	-	-	-	1	1	1	1	1	1	1	1		
59	BC05M-2C	BC05M CABLE ASSY		-	-	-	-	1	1	1	1	-	-	-	-		
60	BC05F-9	BC05F INTERFACE CABLE		-	-	-	-	1	1	1	1	-	-	-	-		
61	7010001-8	JUMPER, TWISTED PAIR, 23.5 LG		-	-	-	-	1	1	1	1	1	1	1	1		
62	7013701	MODEM CABLE		-	-	-	-	-	-	-	-	1	1	1	1		
63	9009556	SPACER 6-32 X .56, FIBER		-	-	-	-	2	2	2	2	2	2	2	2		
64	9007661	SPACER, .25 ID X .56		-	-	-	-	4	4	4	4	4	4	4	4		
65	9006024-01	SCREW, PHL. PAN HD. 6-32 X .50		-	-	-	-	4	4	4	4	4	4	4	4		
66	9007033	CABLE TIE		-	-	-	-	1	1	1	1	1	1	1	1		
TITLE		ASSY NO.		SIZE		CODE		NUMBER				REV.		ECO NO			
LA180 UNIT ASSY		E-UA-LA180-0-0		A		PL		LA180 -0-0				(S)					
SHEET		3		OF		4		DIST.									

DIGITAL EQUIPMENT CORPORATION

MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY	L. TAYLOR	CHECKED	STLETZER	SECTION
DATE	10-4-74	DATE	6-17-75	1
ENG	STELTZER	PROD	R.L. JODOIN	ISSUED SECT.
DATE	6-17-75	DATE	6-18-75	1

QUANTITY / VARIATION

LA130-PA
LA180-PB
LA180-PC
LA180-PD
LA180-CA
LA180-CB
LA180-CC
LA180-CD
LA180-EA
LA180-EB
LA180-EC
LA180-ED

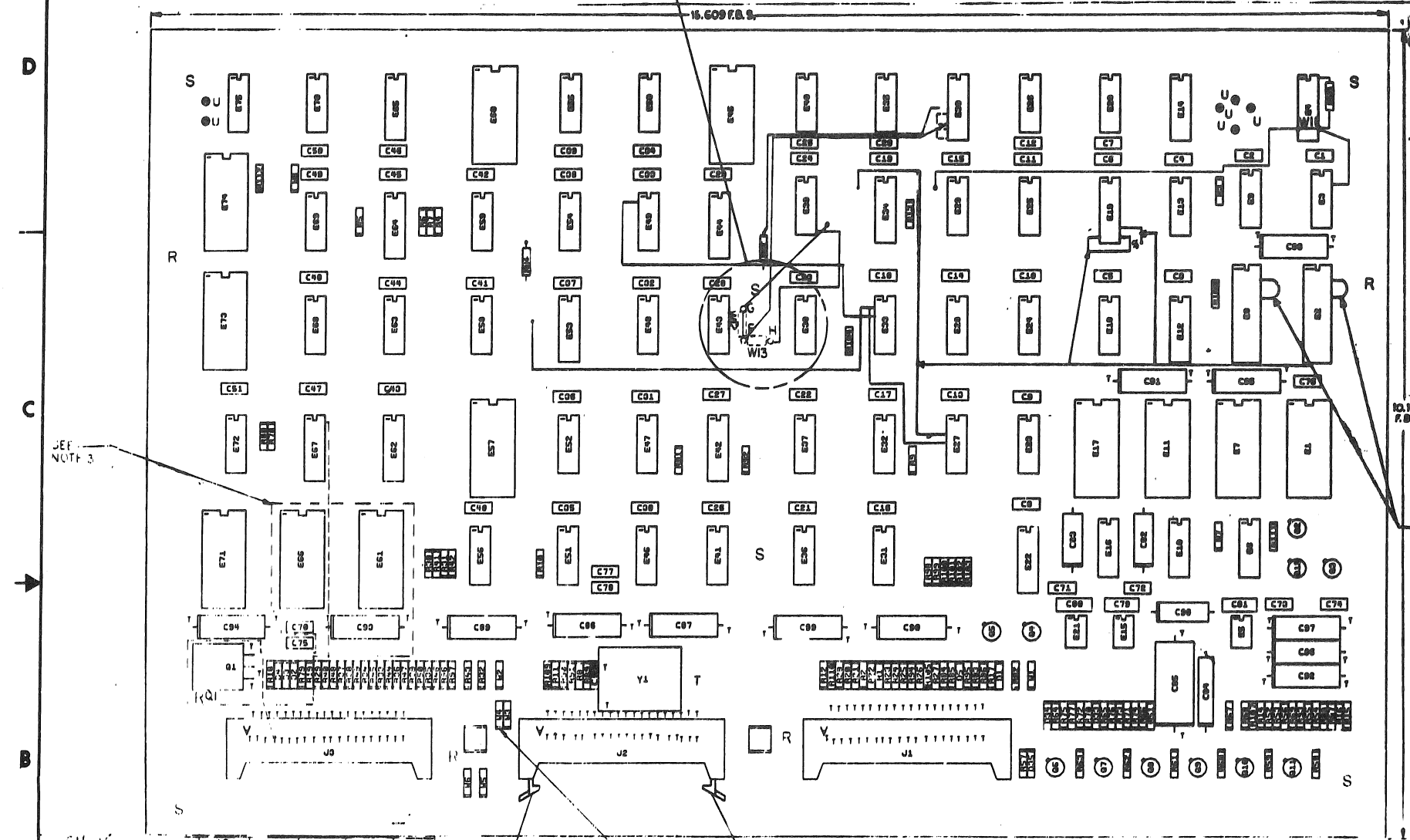
[illegible][illegible]

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.	ECO NO.
LA180 UNIT ASSY	E-UA-LA180-0-0	A	PL	LA180-0-0	S	
	SHEET 4 OF 4	DIST.				

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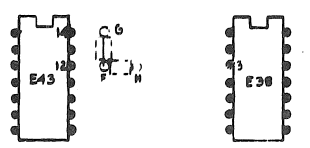
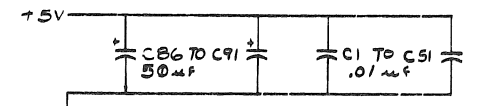
NOTES: SEE DETAIL A

- NOTE: 1. W2, W4, W6, ARE NOT INSERTED.
2. JUMPER WIRES ADDED - 8 PLACES
~~22-18 TO 23-18~~
~~23-18 TO 23-19~~
3. COMPONENTS WITHIN OUTLINE WERE USED ONLY WHEN PROMS WERE USED ON SERIAL #1130 AND EARLIER.
4. W4 NECESSARY FOR 591 NS OR 1200 SAUL (C) 1
5. HOLES IN IC LOCATIONS E11 & E17, TO BE MASKED FROM WAVE SOLDERING PROCESS



611 1F	12	24		
74175	8	16		
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

88 TYP. 3PLACES SEE NOTE 4 89 TYP. 3PLACES



DETAIL A SCALE: NONE

SEE SHEET 2

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
ETCH BOARD REV. E				
FIRST USED ON OPTION MODEL LA180				
REVISIONS				
DEC NO.	EIA NO.	DEC NO.	EIA NO.	REV.
SEMICONDUCTOR CONVERSION CHART				
SCALE: 1" = 1"				
SHEET 5				

DRN. J. F. 1/10/75	DATE 1/10/75
CHK'D. J. F. 1/10/75	DATE 1/10/75
ENG. J. F. 1/10/75	DATE 1/10/75
PROJ. ENG. J. F. 1/10/75	DATE 1/10/75
PROD. J. F. 1/10/75	DATE 1/10/75
NEXT HIGHER ASSY	
TITLE LA180 LOGIC BOARD	
SIZE CODE DCS	NUMBER 5411023-0-1
DIST.	REV. 1

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541023-02
541023-01
541023-00

PARTS LIST				
QTY	REF	DESIGNATION	DESCRIPTION	PART NO.
REF	REF	REF	X-Y COORDINATE HOLE LOCATION	K-CO-541023-0-4
REF	REF	REF	ASSY/DRILLING HOLE LAYOUT	E-AH-541023-0-5
REF	REF	REF	MODULE ECO HISTORY	B-MH-541023-0-6
1	1	1	ETCHED CIRCUIT BOARD	5011022-00
4	4	1	C79, C80, C81, C100	CAP, 39pF 100V 5%
1	1	1	C85	CAP, .68μF 50V 10%
2	2	2	C82, C83	CAP, .047μF 100V 10%
6	6	6	C92, C94-97, C99	CAP, 25μF 25V 10%
57	57	57	C1-C51, C71-C76	CAP, .01μF 50V
1	1	1	C84	CAP, .1μF 100V 10%
2	2	2	C77, C78	CAP, .005μF 100V 20%
6	6	6	C86-C91	CAP, 50μF 25V 10%
2	2	2	D1, D35	DIODE D664
2	2	2	D33, D34	DIODE INT48A 3.9V 5%
2	2	2	D5, D4	DIODE 4MSA-1E1
1	1	1	D5	DIODE D662
3	3	3	J1, J2, J3	CONN 40 PIN
3	3	3	E1, E7, E71	SOCKET I.C. 24 PIN
1	1	1	R86	RES 5.1K 1/4W 5%
15	15	15	R30 R39, R12, R29, R95, R96 R114	RES 150 1/4W 5%
3	3	3	R78, R79, R82	RES 100 1/4W 5%
1	1	1	R57	RES 820 1/4W 5%
1	1	1	R53, R70, R71	RES 180 1/4W 5%
1	1	1	R83	RES 560 1/4W 5%
15	15	15	R40 R50, R93, R97, R110, R115	RES 330 1/4W 5%
2	2	2	R84, R85	RES 470 1/4W 5%
25	25	25	R1-R11, R13-R17, R27, R28, R89 R94, R105, R106, R111, R112, R118	RES 1K 1/4W 5%
1	1	1	R87	RES 1.5K 1/4W 5%
5	5	5	R81, R88, R90-R92	RES 5.6K 1/4W 5%
2	2	2	R55, R56	RES 1K 1/8W 1%
1	1	1	R51	RES 47K 1/4W 5%
1	1	1	R61	RES 11.5K 1/8W 1%
2	2	2	R72, R73	RES 820K 1/4W 10%
2	2	2	R62, R63	RES 2.61K 1/4W 1%
2	2	2	R76, R77	RES 5.11K 1/4W 1%
2	2	2	R74, R75	RES 619 1/4W 1%
1	1	1	R58	RES 31.6K 1/8W 1%
2	2	2	R52, R54	RES 232K 1/8W 1%
6	6	6	R64 R69	RES 2K 1/4W 5%
1	1	1	R60	RES 16.2K 1/8W 1%
1	1	1	R59	RES 24.3K 1/4W 1%
2	2	2	Q2, Q3	TRANS 6534D PNP
9	9	9	Q4-Q12	TRANS MPSA05 NPN
1	1	1	Q1	TRANS 6456D PNP
1	1	1	Y1	CRYSTAL 1.6896 MHZ
11	11	11	E18, E20, E23, E25, E26, E29 E35, E50, E51, E54, E55	IC 7474

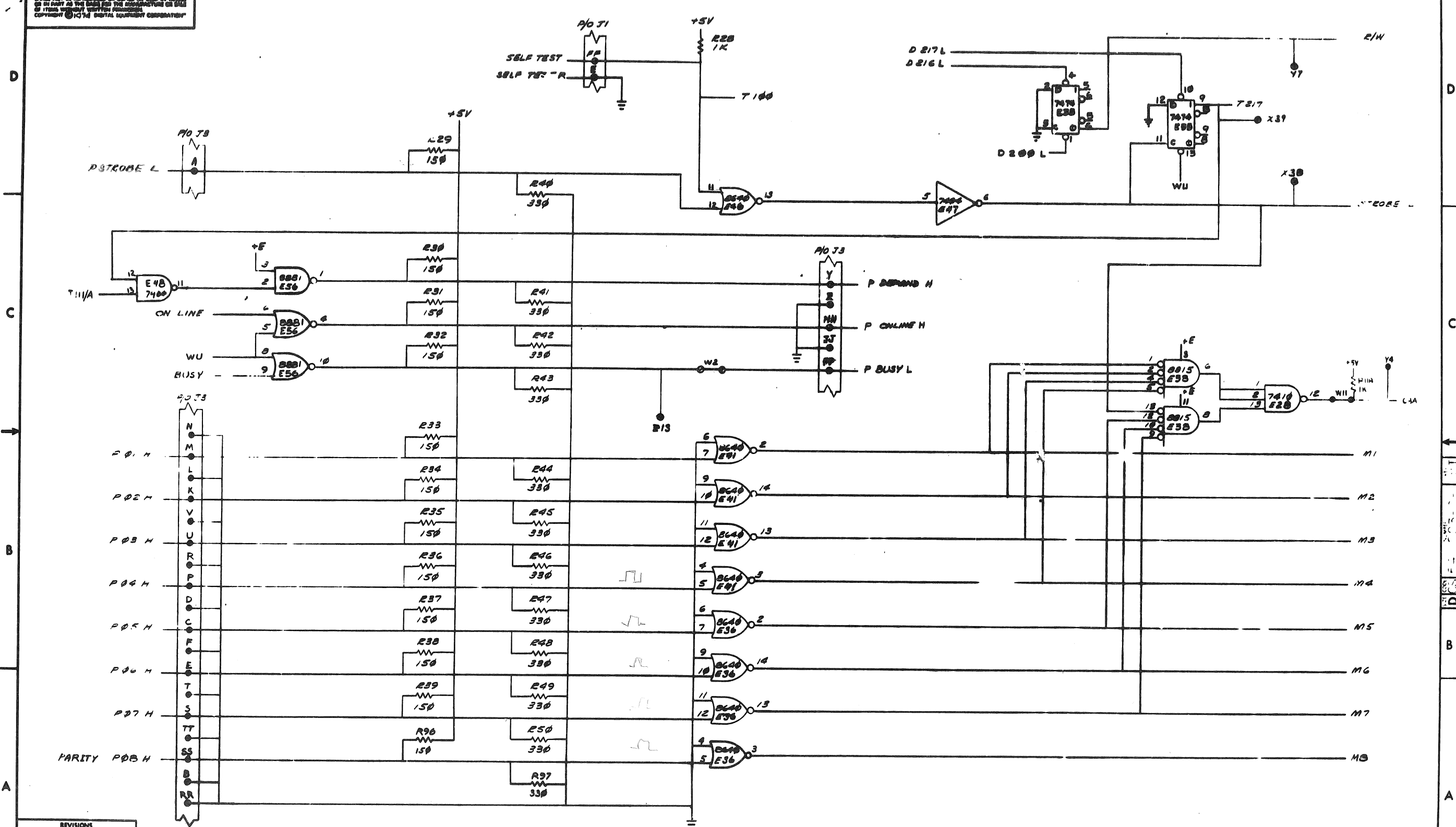
541023-02
541023-01
541023-00

PARTS LIST				
QTY	REF	DESIGNATION	DESCRIPTION	PART NO.
4	4	4	E24, E48, E49, E52	IC 7400
1	1	1	E28	IC 7410
1	1	1	E70	IC 7420
1	1	1	E69	IC 7401
2	2	2	E39, E40	IC 7493A
3	3	3	E36, E41, E46	IC 8640
6	6	6	E31, E33, E47, E72, E75, E27	IC 7404
3	3	3	E45, E60, E73	IC 74154
1	1	1	E16	IC 7413
5	5	5	E12, E14, E62, E64, E67	IC 74193
1	1	1	E53	IC 7442
1	1	1	E19	IC 74190
2	2	2	E56, E30	IC 8881
2	2	2	E57, E74	IC 74150
3	3	3	E5, E15, E21	IC LM301A
1	1	1	E65	IC 7489
1	1	1	E42	IC 74123
2	2	2	E34, E44	IC 74161
1	1	1	E22	IC 74175
2	2	2	E2, E8	IC 2101-2
-	-	-	E6, E66	IC 1703-1 PROMS
1	1	1	E38	IC 8815
4	4	4	E3, E9, E32, E37	IC 74197
4	4	4	E43, E59, E63, E68	IC 7408
1	1	1	E1	IC MK2626 UNSLASHED 0)
1	1	1	E7	IC MK2627 (ALPHA SET)
9	9	9		SPLIT LUGS
-	-	-		SCREW PPH
2	2	2		FASTON TAB
-	-	-		WEP WPT
2	2	2		EYELETS
9	9	9	R98-R104, R109, R107	RES 47K 1/4W 5%
1	1	1	E58	IC 7414
1	1	1	E13	IC 74120
1	1	1	E10	IC 960
1	1	1	E6	IC 7406
1	1	1	C98	CAP 39μF 10V 5%
7	7	7	R20 THRU R26	RES 4.7K 1/4W 5%
5	5	5	W1, W4, W8, W11, W12 OR W13	INSULATED JUMPER
4/R/R/R/R				JUMPER, INSULATED
3	3	3		LATCH, LEFT
3	3	3		LATCH, RIGHT
-	-	-	E71	IC MK2611 P CROM
-	-	-	E71	IC MK2611 P CROM
-	-	-	W3, W5, W7	JUMPER, INSULATED

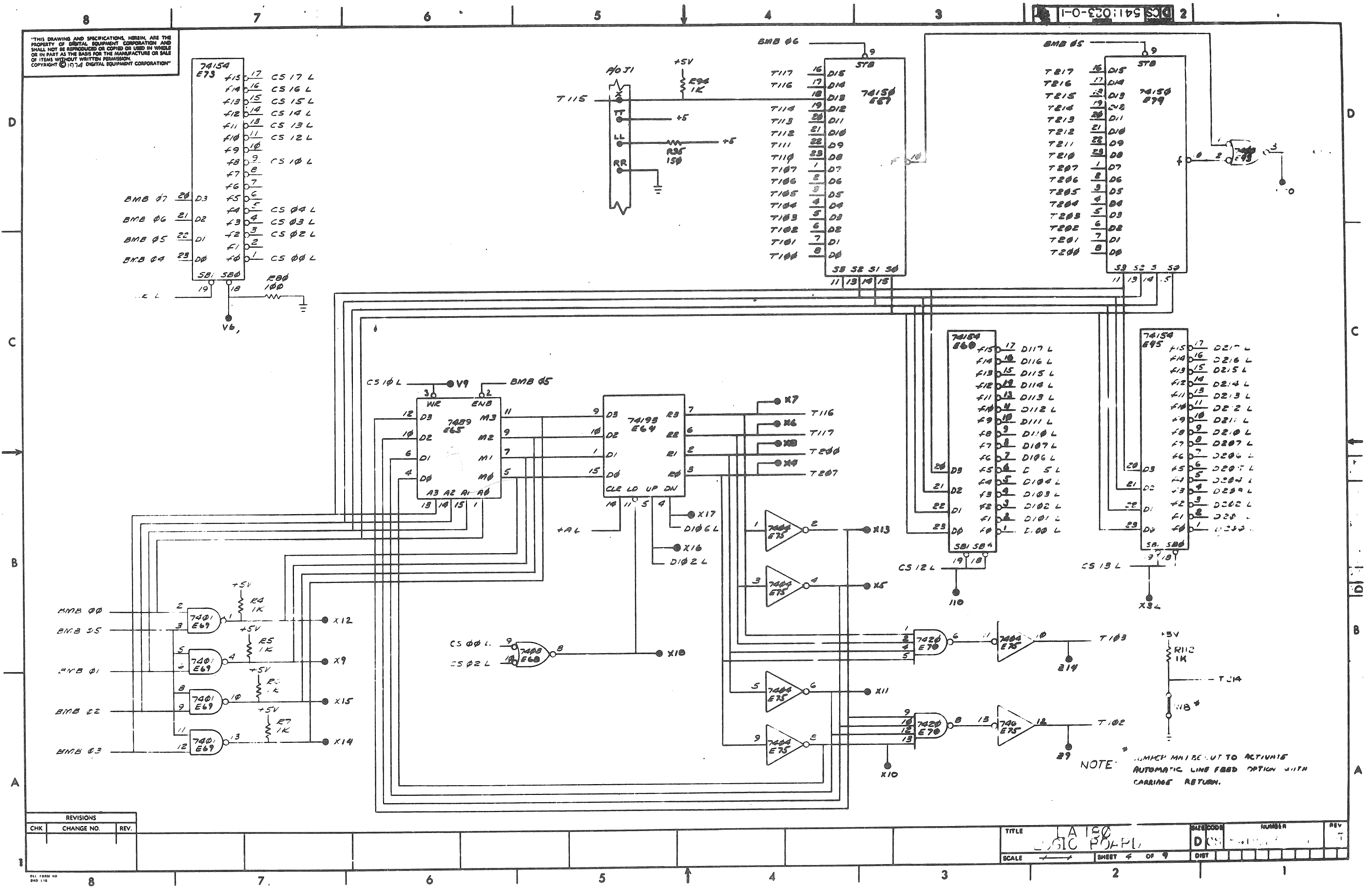
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CHK	CHANGE NO.	REV.

TITLE		LA180		D CS		541023 0-1		T	
SCALE		SHEET 2 OF 9		DWT.					

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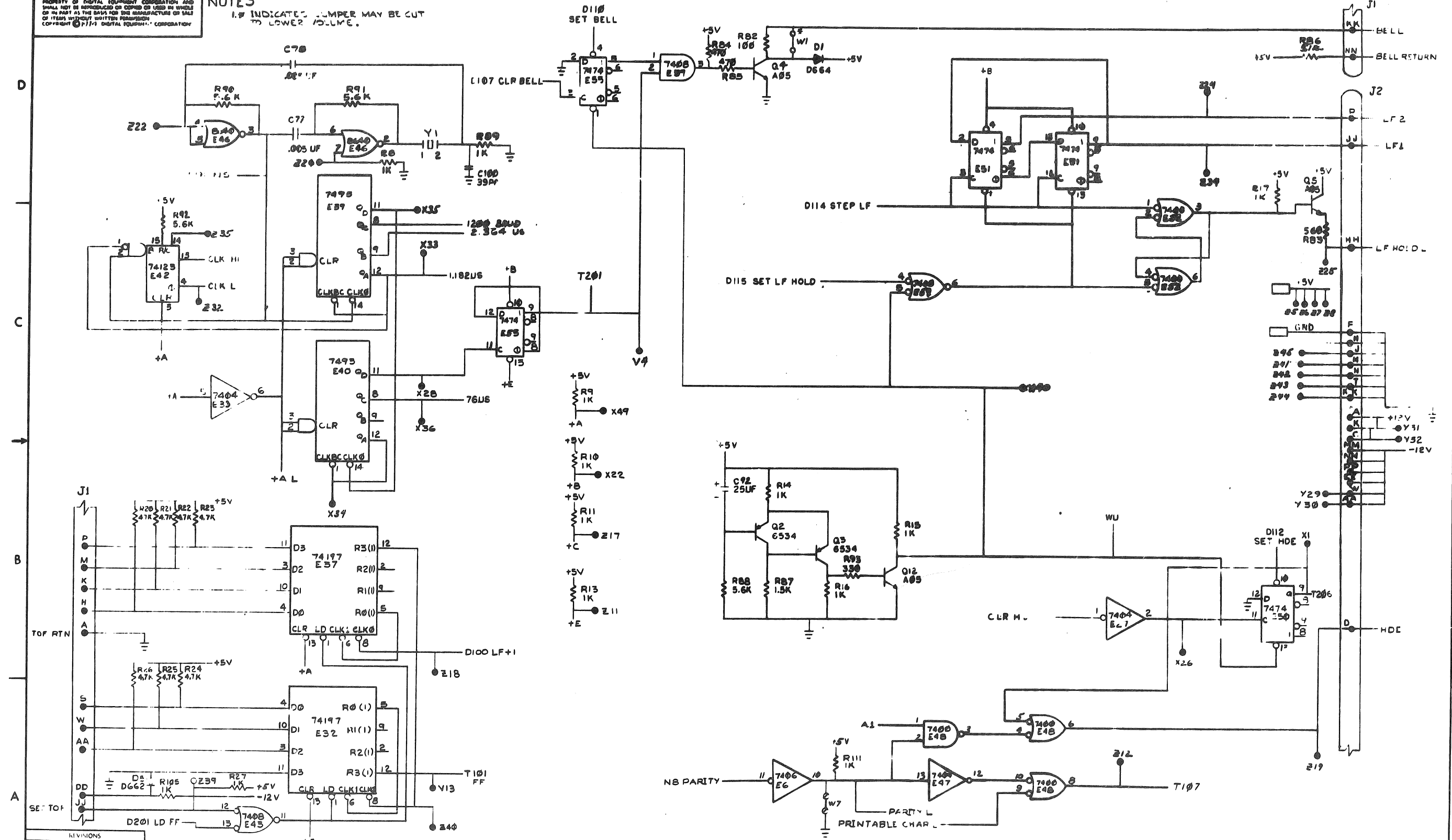


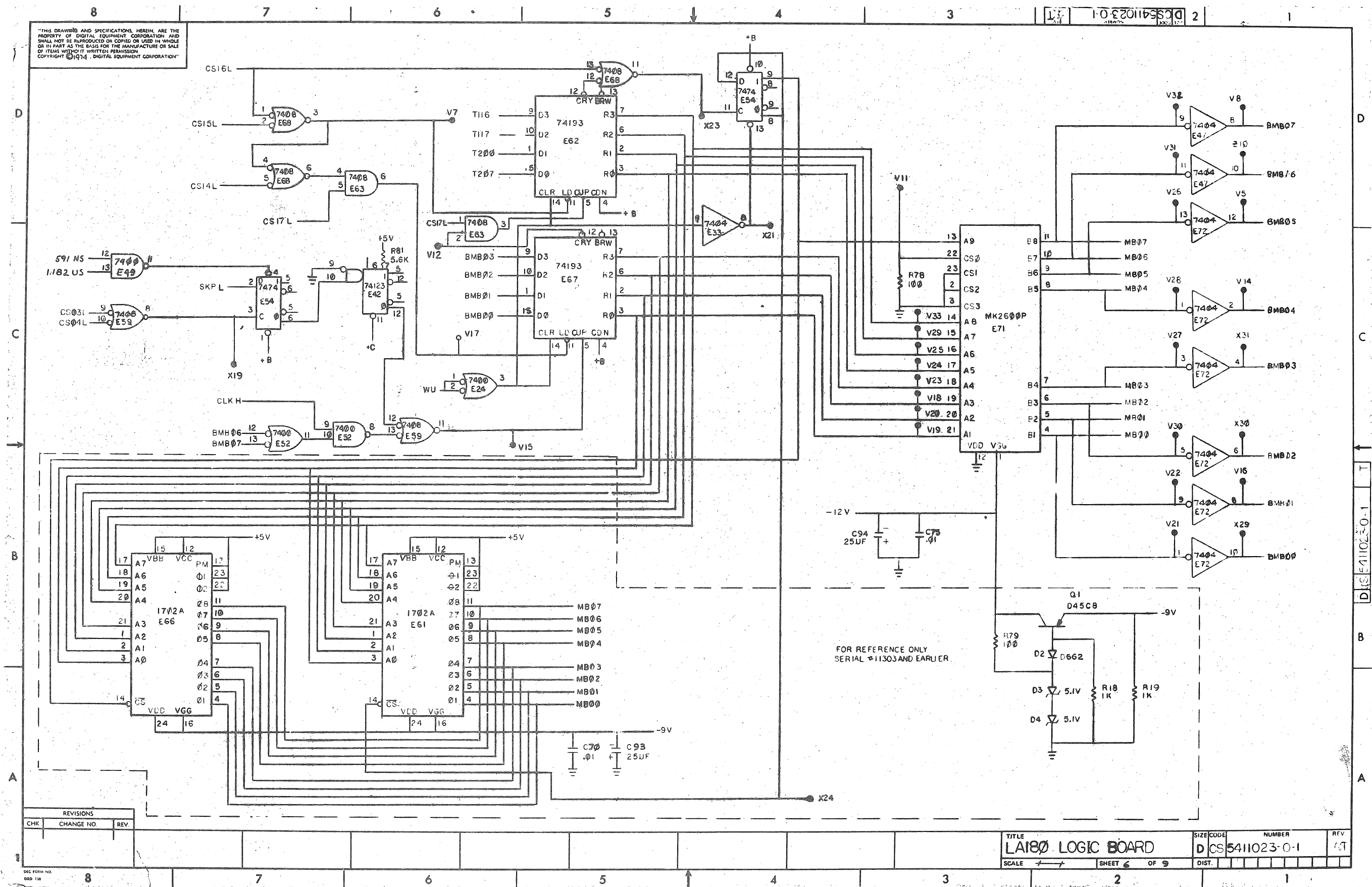
REVISIONS		
CHK	CHANGE NO	REV.

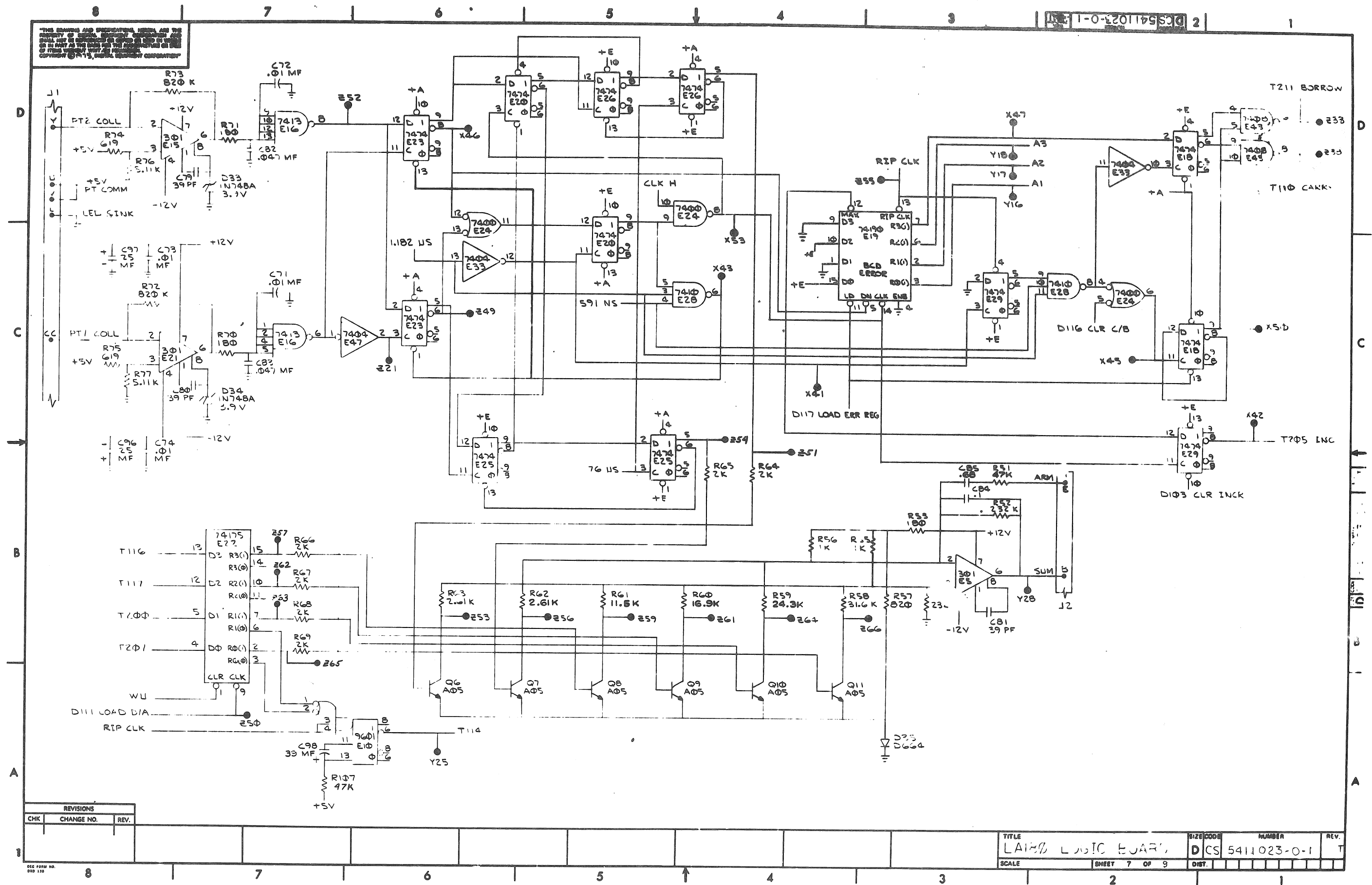


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NOTES
1. IF INDICATED, JUMPER MAY BE CUT TO LOWER VOLUME.

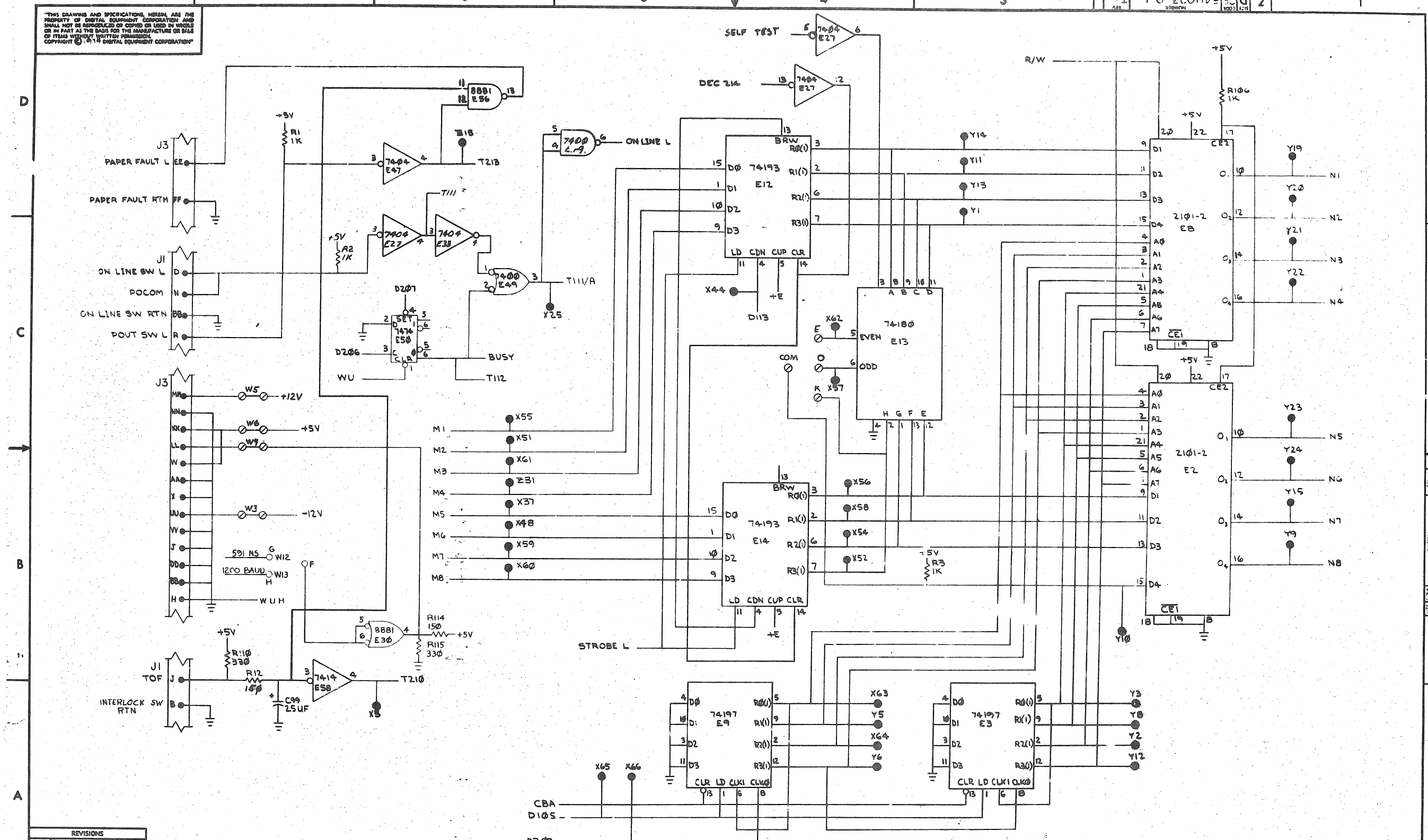






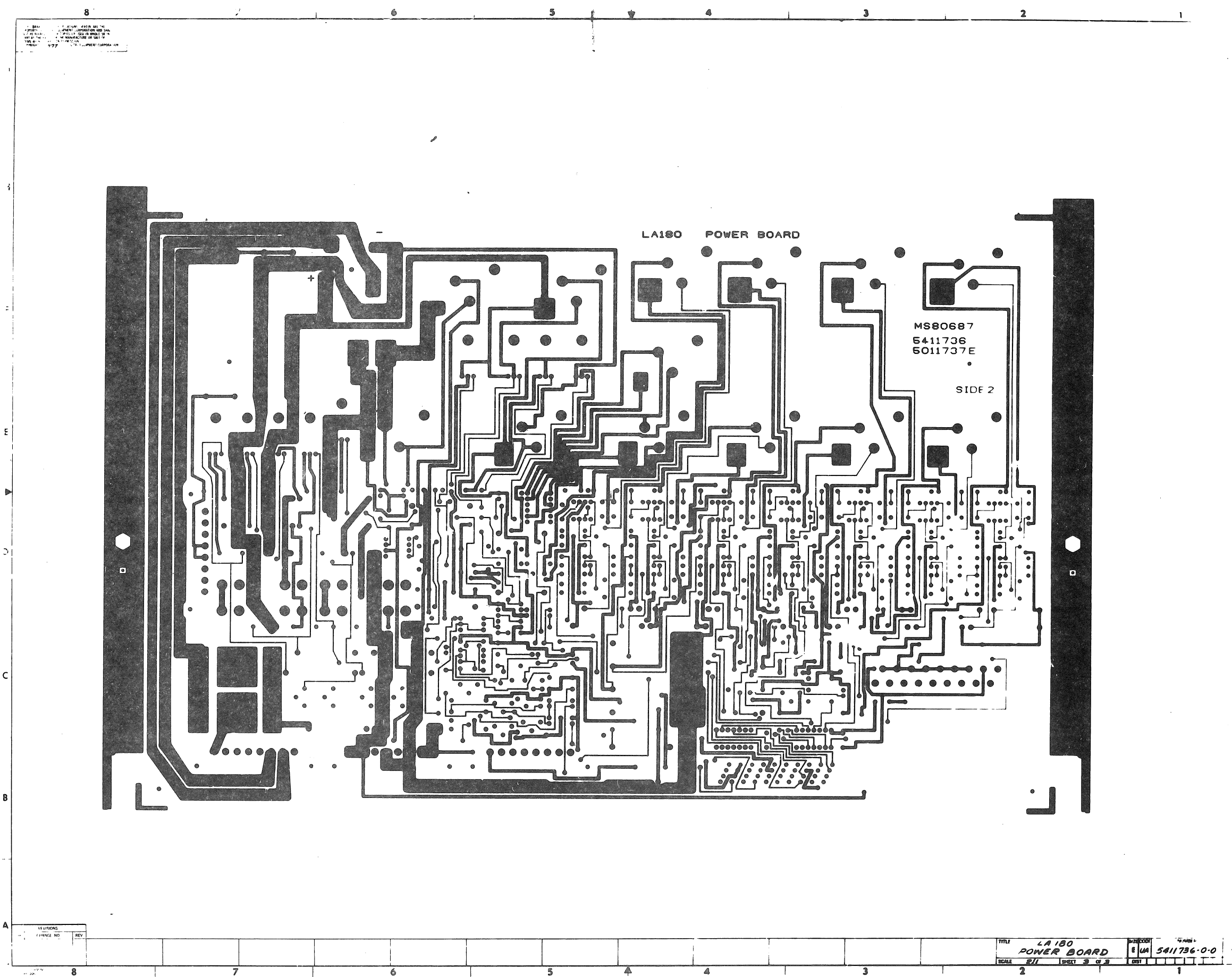
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1-0-02011023-0-1



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE CODE	NUMBER	REV.
LA180 LOGIC BOARD		D	CS 5411023-0-1	1
SCALE	SHEET	OP	DIST.	

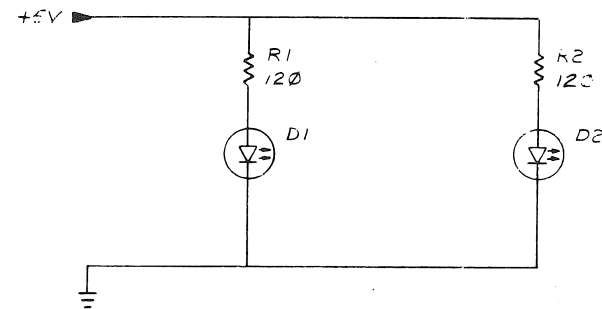
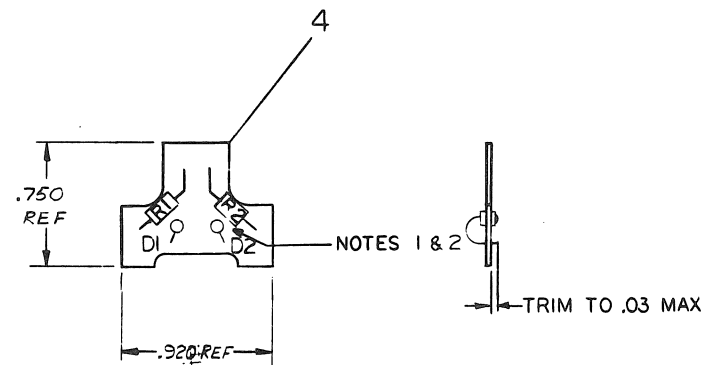


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NOTES:

1. HEAT APPLIED TO D1 AND D2 DURING SOLDERING SHALL NOT EXCEED 285°C FOR A PERIOD OF 15 SECONDS.
2. FINISHED HOLE SIZE FOR MOUNTING D1 AND D2 SHALL BE .078 MIN. .083 MAX



REF	DESCRIPTION	ITEM NO.
REF	X-Y COORDINATE FILE LOCATION K-07-5410991-0-4	1
REF	ASSY/DRILLING HOLE LAYOUT C-AH-5410991-0-5	2
REF	MODULE ECJ HISTORY B-MH-5410991-0-6	3
1	ETCHED CIRCUIT BOARD D:A-5010790-0-0	4
2	R1, R2 RES 120 1/4W 5%	5
2	D1, D2 LIGHT EMITTING DIODE 1111907	6

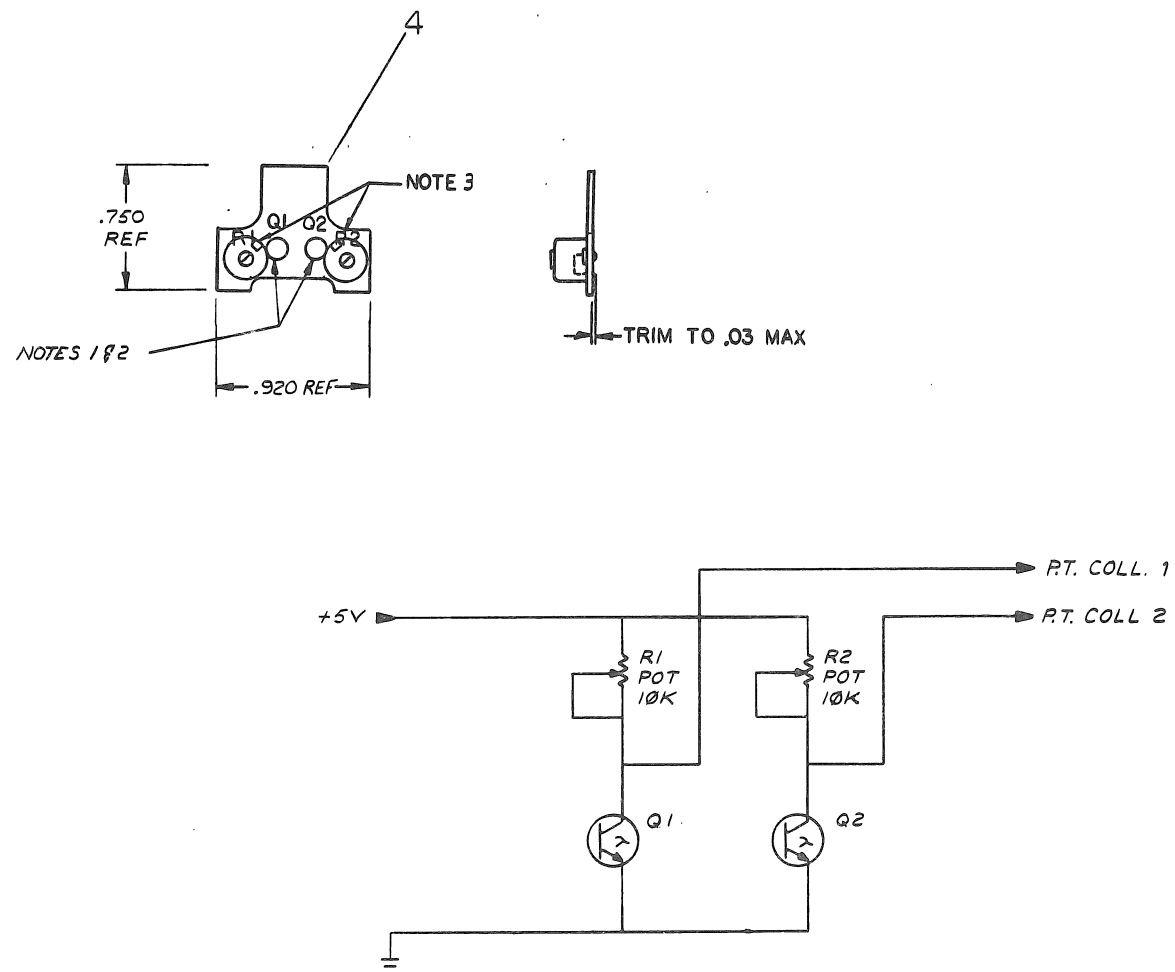
QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
ETCH BOARD REV C				
DRN	J. Bittito	DATE	5/11/74	
CHK'D	J. Bittito	DATE	5/11/74	
ENG	External	DATE	7-12-74	
PRG. ENG	External	DATE	7-12-74	
PRG. ENG	External	DATE	7-15-74	
NEXT HIGHER ASSY				
SEMICONDUCTOR CONVERSION CHART				
DEC NO.	EIA NO.	DEC NO.	EIA NO.	
SCALE 1 OF 1				
SHEET 1 OF 1				
EQUIPMENT CORPORATION				
TITLE LA36 ENCODER PC BOARD LED				
SIZE CODE NUMBER				
DCS 5410991-0-1 E				
DST.				

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NOTES:

1. HEAT APPLIED TO Q1 AND Q2 DURING SOLDERING SHALL NOT EXCEED 285° C FOR A PERIOD OF 15 SECONDS.
2. FINISHED HOLE SIZE FOR MOUNTING Q1 AND Q2 SHALL BE .078 MIN., .083 MAX.
3. R1 AND R2 MUST BE ORIENTED AS SHOWN, WITH NOTCH TOWARD CENTER OF BOARD.



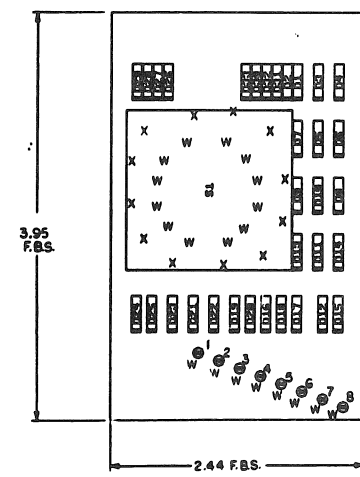
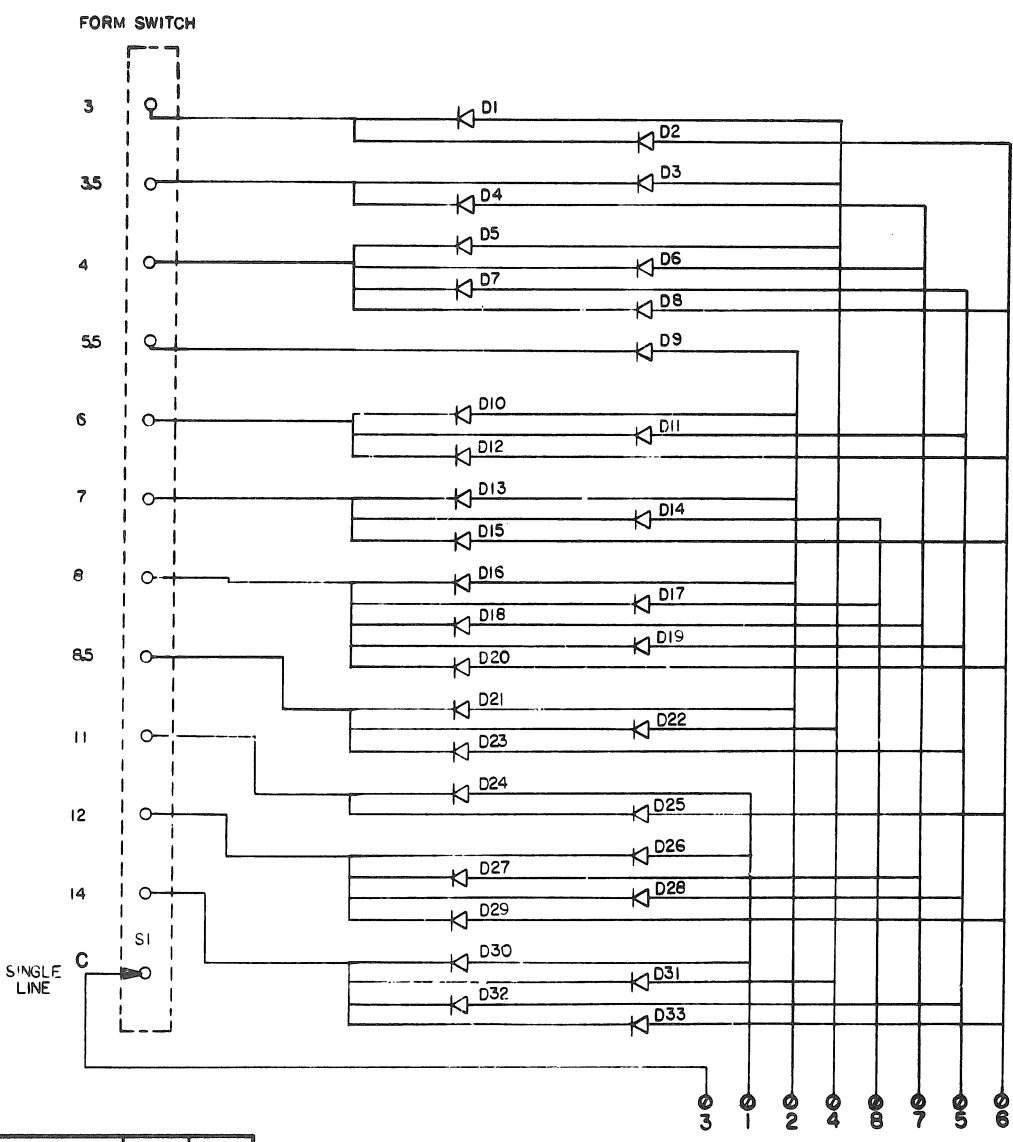
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REF		ASSY/DRILLING HOLE LAYOUT	D-AH-5411049-0-5	2
REF		MODULE ECO HISTORY	B-MH-5411049-0-6	3
REF		ETCHED CIRCUIT BOARD	D-1A-5010790-0-0	4
2	R1, R2	POTENTIOMETER 10K	1309150-12	5
2	Q1, Q2	PHOTOTRANSISTOR	1511906	6

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
ETCH BOARD REV C				
DRN. <i>[Signature]</i> DATE 5/2/74				
CHK'D <i>[Signature]</i> DATE 5/1/74				
ENG. <i>[Signature]</i> DATE 2/1/74				
PBR. <i>[Signature]</i> DATE 7-2-74				
PROD. <i>[Signature]</i> DATE 7-15-74				
NEXT HIGHER ASSY				
TITLE LA36				
ENCODER PC BOARD				
PHOTOTRANSISTOR				
SIZE CODE NUMBER REV.				
DCS 5411049-0-1 5				
SCALE 1 OF 1				
SHEET 1 OF 1				

DEC NO.	EIA NO.	DEC NO.	EIA NO.
5411049-00001	1-6-75	5411049-00002	2-12-75
5411049-00003	3-18-75	5411049-00004	4-2-75
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5411049-00007	7-1-75	5411049-00008	8-1-75
5411049-00009	9-1-75	5411049-00010	10-1-75
5411049-00011	11-1-75	5411049-00012	12-1-75
5411049-00013	1-1-76	5411049-00014	2-1-76
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5411049-00025	1-1-77	5411049-00026	2-1-77
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5411049-00289	1-1-99	5411049-00290	2-1-99
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5411049-00297	9-1-99	5411049-00298	10-1-99
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5411049-00315	3-2001	5411049-00316	4-2001
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5411049-00319	7-2001	5411049-00320	8-2001
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OR BY ANY INFORMATION STORAGE
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NOTES:



8		SPLIT LUG	9006735-00	7
33	DI-D33	DIODE D664	1100114-00	5
1	SI	SWITCH, SINGLE POLE - 12 POSITION	1212443-00	5
1		ETCHED CIRCUIT BOARD	C-MD-5011652-00	4
REF		MODULE ECO HISTORY	B-MH-5411653-0-6	3
REF		ASSY/DRILLING HOLE LAYOUT	D-AH-5411653-0-5	2
REF		X-Y COORDINATE HOLE LOCATION	K-CO-5411653-0-4	1
QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.

FIRST USED ON OPTION MODEL
LA180

ETCH BOARD REV. A				PARTS LIST			
DRN	DATE	7/2/75		digital TITLE 6 LPI FORM CONTROL			
CHKD	DATE	4/2/75					
APP	DATE	4/2/75					
PROJ. ENG.	DATE	4/2/75					
PROD	DATE	4/2/75					
NEXT HIGHER ASSY				SCALE	NONE		
DEC NO.	EIA NO.	DEC NO.	EIA NO.	SHEET	OF		
SEMICONDUCTOR CONVERSION CHART				DIST.			

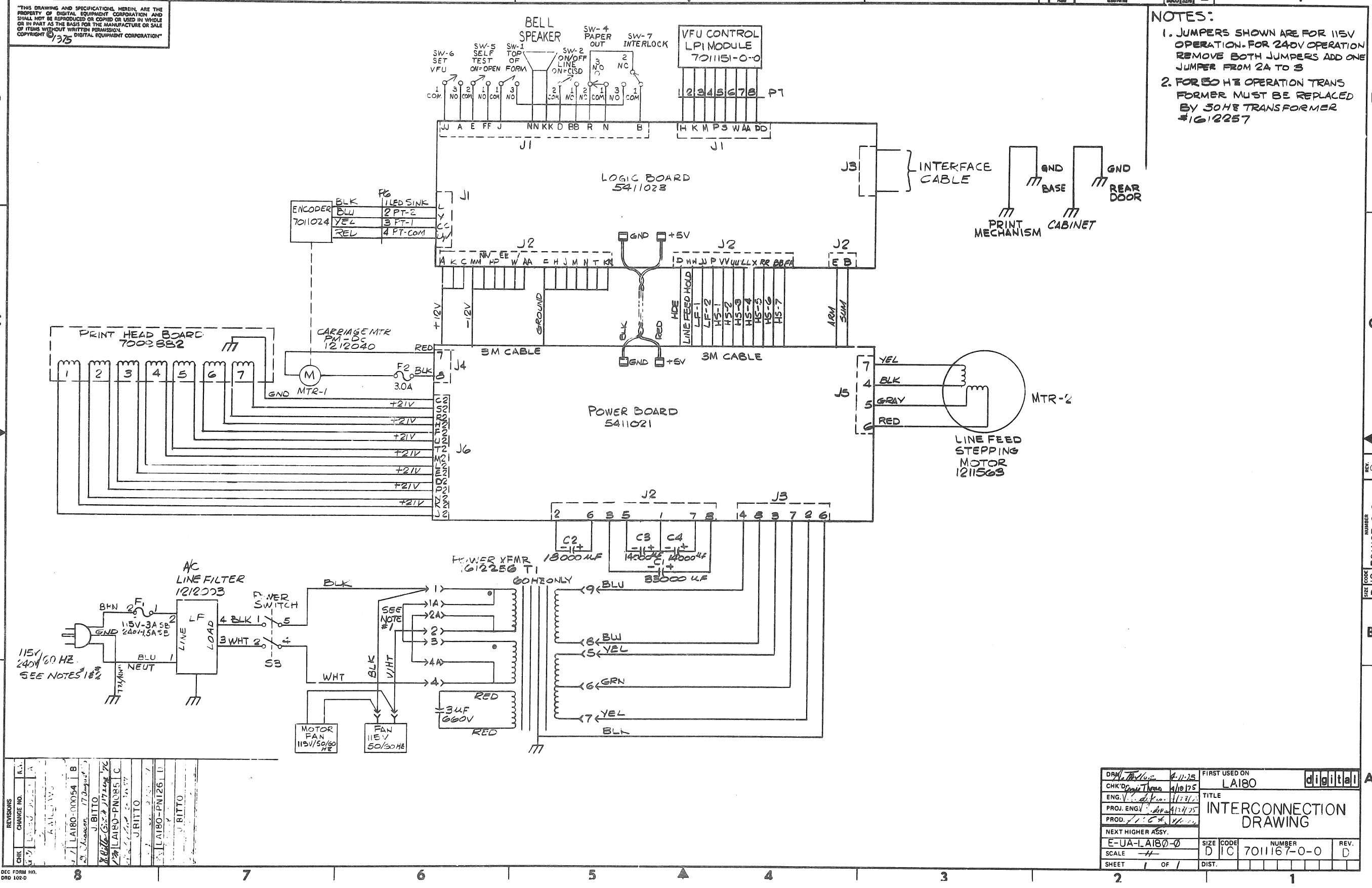
IC TYPE	GND	+5V
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTIONS ARE STATED ABOVE		
IC PIN LOCATIONS		

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0-0-2911104 2 1

NOTES:

1. JUMPERS SHOWN ARE FOR 115V OPERATION. FOR 240V OPERATION REMOVE BOTH JUMPERS ADD ONE JUMPER FROM 2A TO 3
2. FOR 50 HZ OPERATION TRANSFORMER MUST BE REPLACED BY 50 HZ TRANSFORMER #1612257



DRW. <i>[Signature]</i>	4-11-75	FIRST USED ON	LA180	digital
CHKD. <i>[Signature]</i>	4/18/75	TITLE	INTERCONNECTION DRAWING	
ENG. <i>[Signature]</i>	4/18/75	PROJ. ENG.		
PROD. <i>[Signature]</i>	4/18/75	NEXT HIGHER ASSY.		
E-UA-LA180-0		SIZE CODE	D 1 C	
SCALE	1 OF 1	DIST.		
SHEET				

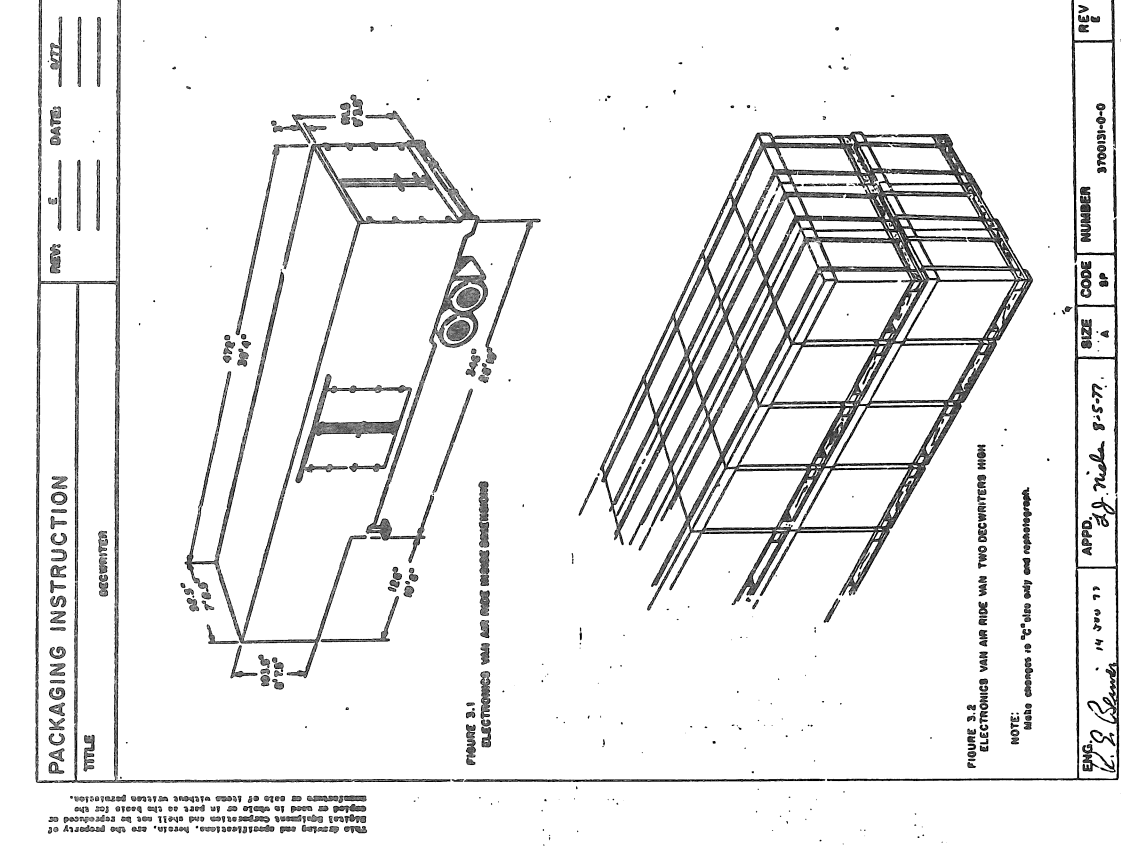
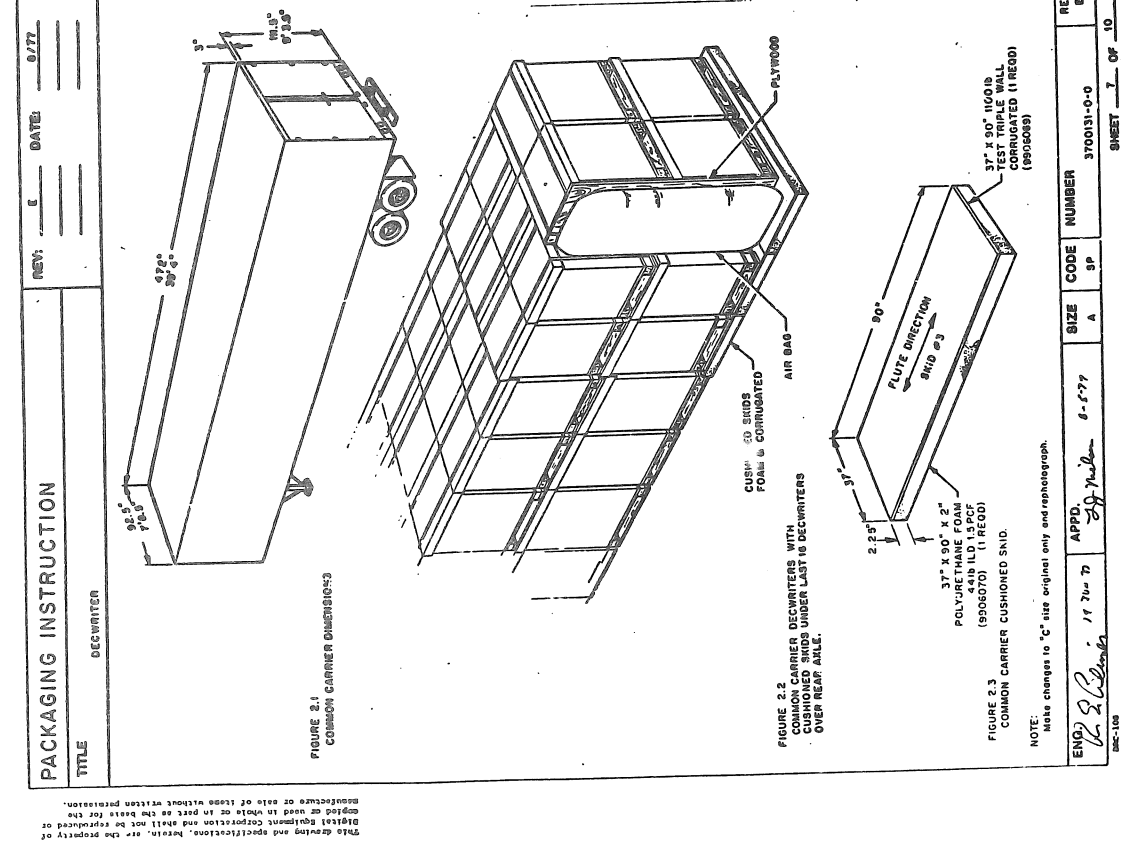
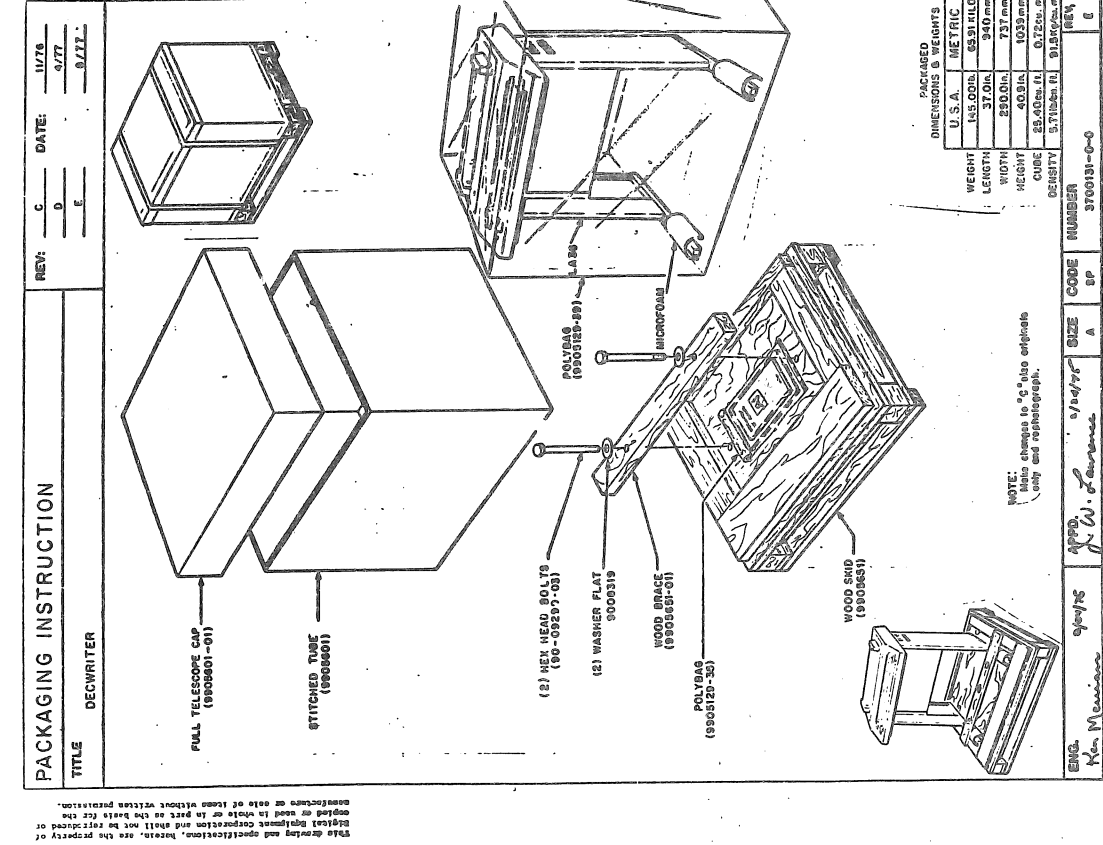
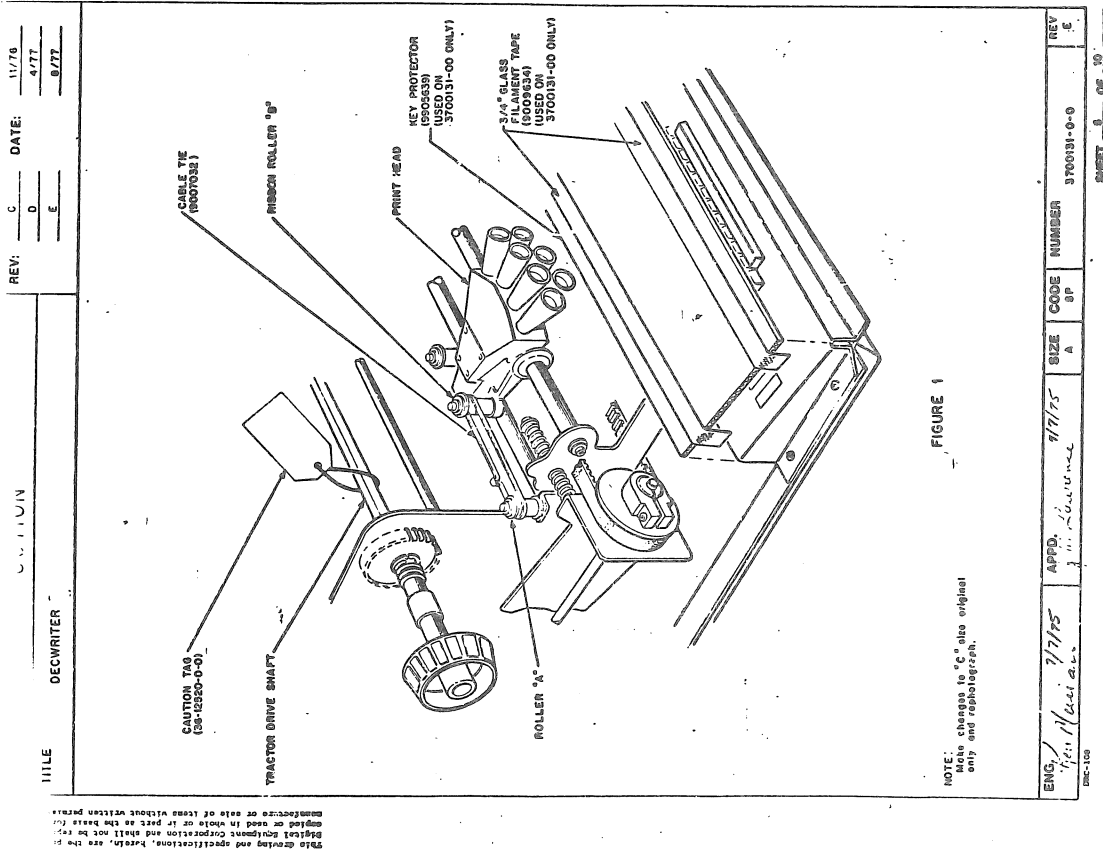
REVISIONS	CHANGE NO.	DATE	BY	DESCRIPTION
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3	3	4-11-75	J. BITTO	LA180-00054
4	4	4-11-75	J. BITTO	LA180-00054
5	5	4-11-75	J. BITTO	LA180-00054
6	6	4-11-75	J. BITTO	LA180-00054
7	7	4-11-75	J. BITTO	LA180-00054
8	8	4-11-75	J. BITTO	LA180-00054
9	9	4-11-75	J. BITTO	LA180-00054
10	10	4-11-75	J. BITTO	LA180-00054
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12	12	4-11-75	J. BITTO	LA180-00054
13	13	4-11-75	J. BITTO	LA180-00054
14	14	4-11-75	J. BITTO	LA180-00054
15	15	4-11-75	J. BITTO	LA180-00054
16	16	4-11-75	J. BITTO	LA180-00054
17	17	4-11-75	J. BITTO	LA180-00054
18	18	4-11-75	J. BITTO	LA180-00054
19	19	4-11-75	J. BITTO	LA180-00054
20	20	4-11-75	J. BITTO	LA180-00054

DIGITAL EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
PA KAGING INSTRUCTION	
REV 1	E DATE 1/7/77
TITLE DECwriter	
LEGEND	
3700131-00 DECwriter with Keyboard	
3700131-01 DECwriter without Keyboard	
MATERIAL REQUIREMENTS - 3700131-00	
Quantity	Purchase Specification No. Description
1	9905601 Stitched Tube
1	9905601-01 Full Telescope Cap
1	9905639 Pad with Foam (LA36/LA35 only)
1	9905129-39 Poly Bag
1	9905651 Wood Skid
1	9905651-01 Wood Braces
2	99049290-03 3/8-16 X 3 Hex-Head Bolt
1	36-12520-0-0 Caution Tag
6 R	99049634 Stain Resistant Tape
1	99047032 Fanduit Cable Tie
20 R	9905724-02 Polypropylene Strapping
1	9905129-35 Poly Bag
2	9908319 Washer, Flat
PACKAGING INSTRUCTIONS - 3700131-00	
Procedure	
Step	
1.	Lift the cover and slide the print head to the left as far as it will go. Slip the Product Cable Tie (99047032) around the ribbon rollers (A and B). Do not over-tighten. Fasten Caution Tag (36-12520-0-0) to tractor drive shaft. Close cover. (Fig. 1)
2.	Place Pad with Foam (9905639) (foam side down) on top of the LA36/LA35 keyboard. Tape with two (2) strips of glass filament tape (99049634). Tape back door closed, using two (2) strips of glass filament tape (99049634). (Fig. 1)
3.	Place DECwriter on top of Skid Deck (9905651). (Fig. 2)
4.	Place all hardware and software into Poly Bag (9905129-35) and staple to deck of skid.
5.	Place one strip of CW21 (Custom Wrap) or Microfoam, over each leg of the DECwriter.
6.	Place Wood Braces (9905651-01) on top of legs as far back as it will go to properly align the bolt holes.
7.	Place Hex-Head Bolts (99049290-03) and washers (9908319) through the bolt holes in the wood brace into the Tee Nuts in the underside of the skid deck; then tighten down.
8.	Place a Poly Bag (9905129-39) over the DECwriter. Then, place the Stitched Tube (9905601) over and around the unit. Assemble Full Telescope Cap (9905601-01) and place on top of Stitched Tube.
NOTE	
Make sure that the Stitched Tube is resting on the wood skid base, on all 4 sides.	
9.	Strap in two places as shown in Figure 2.
DEC 8-1551-1031-1-0471	
SHEET 3 OF 10	
REV E	

PACKAGING INSTRUCTION	
CONTINUATION SHEET	
TITLE DECwriter	
MATERIAL REQUIREMENTS - 3700131-01	
Quantity	Purchase Specification No. Description
1	9905601 Stitched Tube
1	9905601-01 Full Telescope Cap
1	9905129-39 Poly Bag
1	9905651 Wood Skid
1	9905651-01 Wood Braces (2 X 3)
2	99049290-03 3/8-16 X 3 Hex-Head Bolt
1	36-12520-0-0 Caution Tag
2 R	99049634 Stain Resistant Tape (36)
1	99047032 Fanduit Cable Tie
20 R	9905724-02 Polypropylene Strapping
1	9905129-35 Poly Bag
2	9908319 Washer, Flat
PACKAGING INSTRUCTIONS - 3700131-01	
Procedure	
Step	
1.	Lift the cover and slide the print head to the left as far as it will go. Slip the Product Cable Tie (99047032) around the ribbon rollers (A and B). Do not over-tighten. Fasten Caution Tag (36-12520-0-0) to tractor drive shaft. Close cover.
2.	With two (2) strips of glass filament tape (99049634) tape back door closed.
3.	Place DECwriter on top of Skid Deck (9905651).
4.	Place all hardware and software into Poly Bag (9905129-35) and staple to deck of skid.
5.	Place one strip of CW21 (Custom Wrap) or Microfoam, over each leg of the DECwriter.
6.	Place Wood Braces (9905651-01) on top of legs as far back as it will go to properly align the bolt holes.
7.	Place Hex-Head Bolts (99049290-03) and washers (9908319) through the bolt holes in the wood brace into the Tee Nuts in the underside of the skid deck; then tighten down.
8.	Place a Poly Bag (9905129-39) over the DECwriter. Then, place the Stitched Tube (9905601) over and around the unit. Assemble Full Telescope Cap (9905601-01) and place on top of Stitched Tube.
NOTE	
Make sure that the Stitched Tube is resting on the wood skid base, on all 4 sides.	
9.	Strap in two places as shown in Figure 2. Use Polypropylene strapping (9905724-02).
DEC-1031	
SHEET 2 OF 10	
REV E	

PACKAGING INSTRUCTION					
CONTINUATION SHEET					
TITLE DECwriter					
METHODS OF TRUCK SHIPMENTS, TRUCK SIZES AND CONFIGURATIONS FOR DECwriters					
This section of the Packaging Instruction lists the approved methods of shipping full truck load and partial truck load quantities of DECwriters; LA35, LA36, LA120, LA180 etc.					
The methods outlined below apply to the following types of shipments shown in Table 1.					
Table 1					
Truck Type	DECwriter Weight	Interior Truck Dimensions Length (in) Width (in) Height (in)	Figure and Title		
1. Common Carrier and Ocean Container with Slids	Two High	480	92.5	111.5	2.1 Truck Dimension 2.2 Configuration 2.3 Skid
2. Electronics Air Ride Van	Two High	126 ± 346 Step	92.5	102.5 ± 111.5 Step	3.1 Truck Dimension 3.2 Configuration
3. King Size Air Ride Van	Three High With Plywood	100 ± 430 Step	92.5	105 ± 122 Step	4.1 Truck Dimension 4.2 Configuration 4.3 Plywood Size
4. Full and Partial Truck Load Temporary Barricades					5.1 Barricades
COMMON CARRIER AND OCEAN CONTAINER					
The Common Carrier or the Ocean Container is a leaf spring truck designed for a payload of 40,000 lbs. with inside dimensions as shown on Figure 2.1. The DECwriters weigh about 145 lbs each packaged with 76 machines per truckload for a total weight of about 11,000 lbs. This is not enough weight to allow the springs to act as springs, consequently we have damaged DECwriters on the last 16 machines over the rear axle. The solution to the damage problem is to put cushioning under these last 16 machines to protect them. Figure 2.2 shows the truckload of DECwriters with the cushioning under the last 16 machines. Figure 2.3 shows the cushioned skid.					
ELECTRONICS AIR RIDE VAN					
The Electronics Van usually has a stepped body with dimensions as shown in Figure 3.1. The Air Ride system is a bag of air which acts in conjunction with the leaf springs and cushions the cargo over a wider weight range. It is far superior in cushioning ability to the hard spring alone. The truck load configuration of DECwriters is shown in Figure 3.2.					
KING SIZE AIR RIDE VAN					
The King Size Van is an Air Ride Electronics Van of greater height than the normal Air Ride Electronics Van. It can take DECwriters stacked three high separated by a sheet of plywood between the second and third machines. Figure 4.1 shows the truck dimensions. Figure 4.2 shows the DECwriter three high in the truck separated by plywood. Figure 4.3 shows the plywood.					
FIGGY-BACK					
There is no provision yet for Piggy Back shipments of DECwriters.					
DEC-1031					
SHEET 3 OF 10					
REV E					

PACKAGING INSTRUCTION	
CONTINUATION SHEET	
TITLE DECwriter	
METHODS OF TRUCK SHIPMENTS, TRUCK SIZES AND CONFIGURATIONS FOR DECwriters (Cont)	
PARTIAL LOAD - LESS THAN FULL TRUCK LOAD	
Partial Loads in trucks may be held in place and protected from tip over by one of the following barricade methods. Figure 5-1 illustrates these methods in the truck.	
1. LOAD LOCKS	
Load Locks are rectangular or round bars which match or unmatch like a jolly column horizontally and force against the sidewalls of the truck to prevent movement of cargo. They can be used in any type truck.	
2. CHANNEL LOCKS	
Channel Locks are rectangular cross section bars which fit into dovetail built into the sidewalls of Electronics Van type trucks. The dovetail ends are spaced about every 18 inches.	
3. STRAPS AND BUCKLES	
Straps and Buckles fit into the arms dovetail built into the Channel Locks and are fastened with a buckle. Rails are built into Electronics Vans only.	
4. AIR BAG	
The Air Bag is an inflatable paper and plastic bag which can only be used between two sections of cargo or between the cargo and the rear door if the space is small enough. The bag will take up a maximum of one foot of space.	
DEC-1031	
SHEET 4 OF 10	
REV E	



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PACKAGING INSTRUCTION

REV: E DATE: 8/77

TITLE
DECWRITER

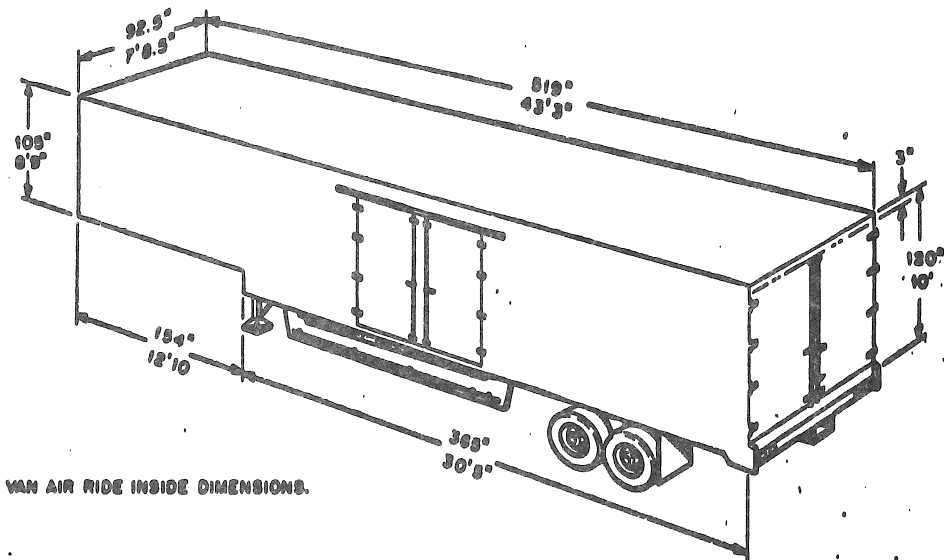


FIGURE 4.1
KING SIZE VAN AIR RIDE INSIDE DIMENSIONS.

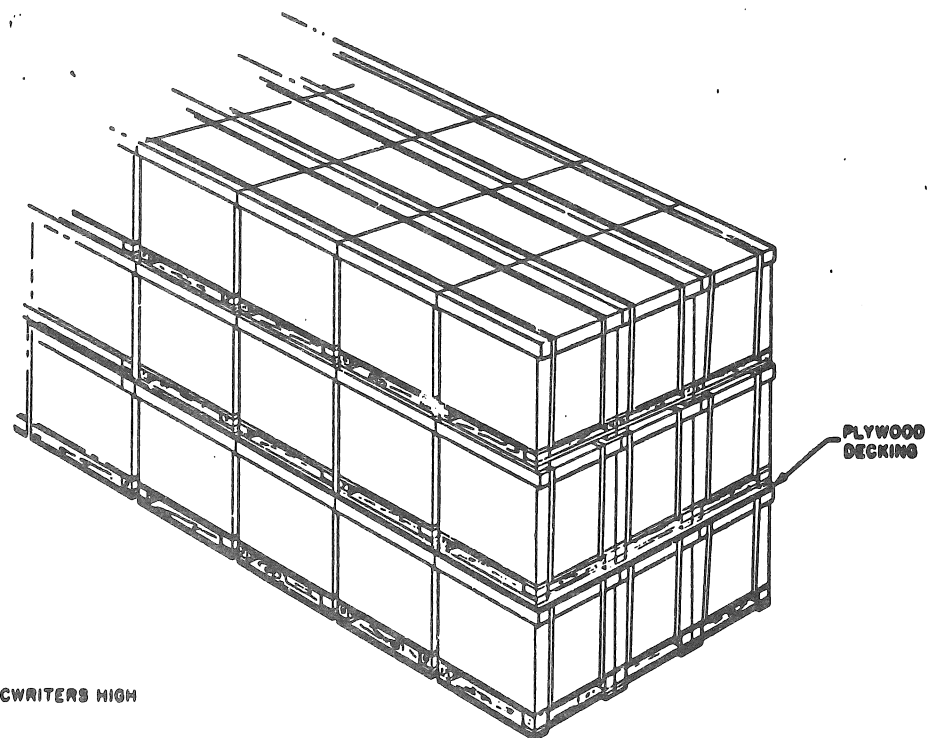


FIGURE 4.2
KING SIZE VAN THREE DECWRITERS HIGH
SEPARATED BY PLYWOOD

NOTE
Make changes to "C" size only and rephotograph.

ENG. R. S. Benner 14 JUN 77 APPD. L. J. Miller 8-5-77 SIZE A CODE SP NUMBER 3700131-0-0 REV E

SHEET 9 OF 10

PACKAGING INSTRUCTION

REV: E DATE: 8/77

TITLE
DECWRITER

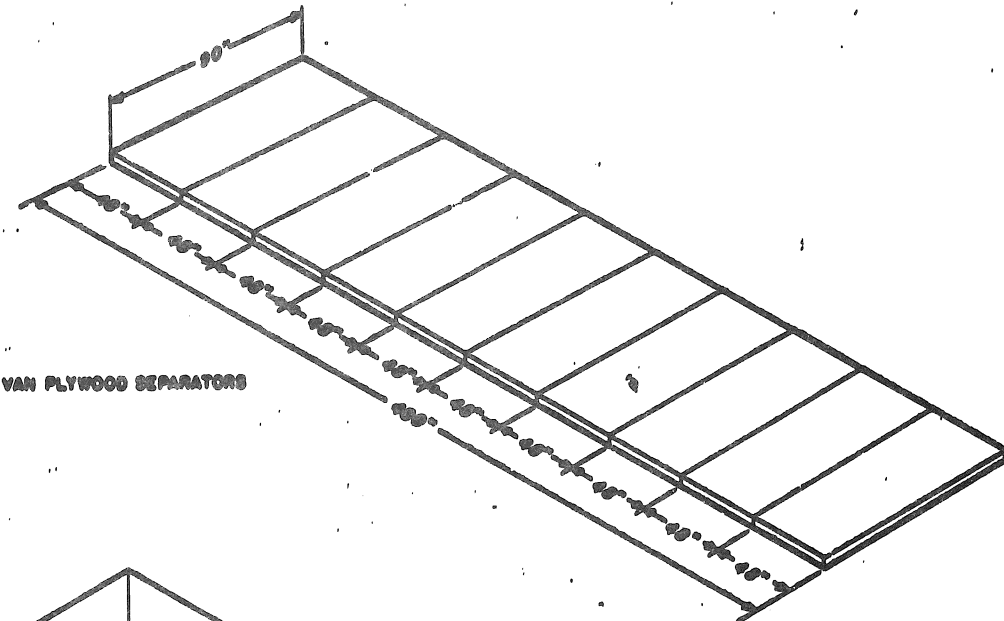


FIGURE 4.3
KING SIZE VAN PLYWOOD SEPARATORS

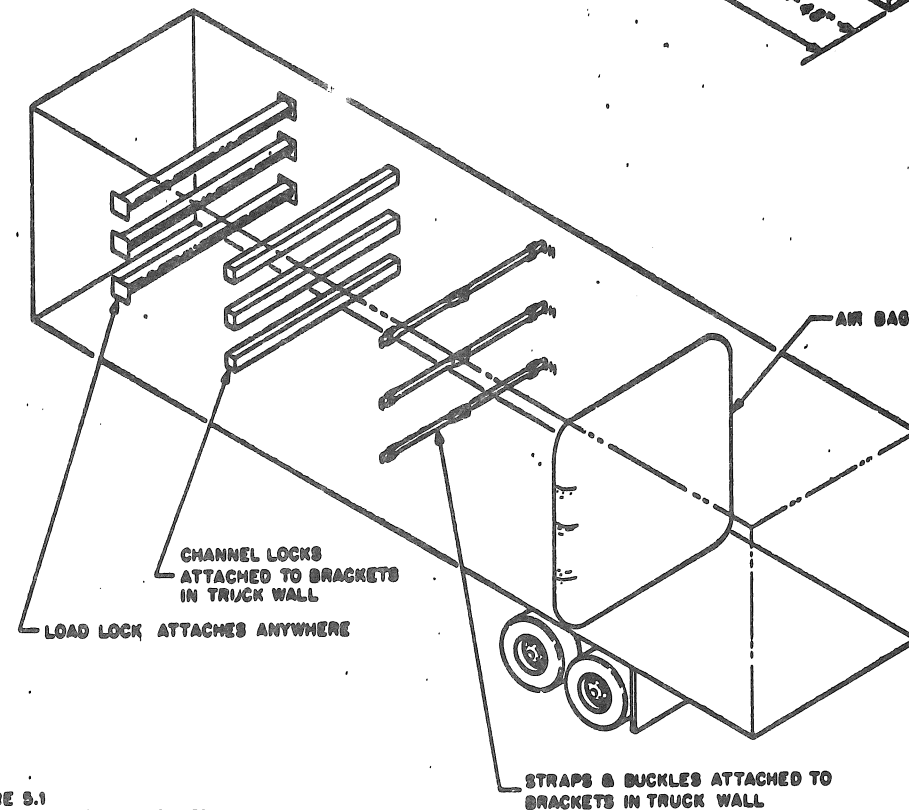


FIGURE 5.1
PARTIAL LOAD BARRICADES

NOTE
Make changes to "C" size original only and rephotograph.

ENG. R. S. Benner 14 JUN 77 APPD. L. J. Miller 8-5-77 SIZE A CODE SP NUMBER 3700131-0-0 REV E

SHEET 10 OF 10



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CUSTOMER PRINT SET INDEX

THIS IS PRINT SET

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SEQUENCE

SEQUENCE

Drawing Directory
Option arrangement
Wheel assembly

B-DD-LAXX-KB
D-AR-LA36-0-1
C-AD-7009751-0

UNIT VARIATIONS

PRINT SET

VAR

TITLE

LAXX-KB	Caste. set
---------	------------

[illegible]

REVISIONS		USED ON OPTION/MODEL		DATE	TITLE			
DATE	CHG. NO.	REV						
			LA36	CHK'D.	DATE	CASTER SET		
			LA35		DATE			
			LA180	PRO LENG.	DATE			
					DATE			
				PROD.	DATE	SIZE CODE	NUMBER	REV
					DATE	B DD	LAXX-KB	
				FIELD SERV.	DATE	DIST		
			SHEET 1 OF 2					



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CUSTOMER PRINT SET INDEX

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Drawing Directory

B-DD-LAXX-NC

LAXX Installation Procedures

E-AR-7417549-0-0

Paper Catcher Assembly

D-IA-7415001-0-0

Hanger, Paper Catcher

D-MD-7415002-0-0

Clip, Ground

C-MD-7418846

[illegible][illegible]

THIS IS PRINT SET

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SEQUENCE

B-DD-LAXX-KJ
E-UA-LAXX-KJ-Ø
A-SP-LAXX-KJ-2

REVISIONS														
REV	CHG. NO.	DATE	USED ON OPTION/MODEL		DRN. D. GILLEY	DATE 10/8/75	TITLE COMPRESSED FONT							
			LA36		CHK'D. <i>[Signature]</i>	DATE 10-17-75								
					PROJ ENG. P.E. Nelson	DATE 10-17-75								
					PROD. <i>[Signature]</i>	DATE 10-17-75								
					FIELD SERV. <i>[Signature]</i>	DATE 10-17-75	SIZE	CODE	NUMBER				REV	
			SHEET 1 OF 2				B	DD	LAXX-KJ					
							DIST							

DRAWING DIRECTORY

UNIT VARIATIONS

[illegible]

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1c	LAXX-NW-3	B

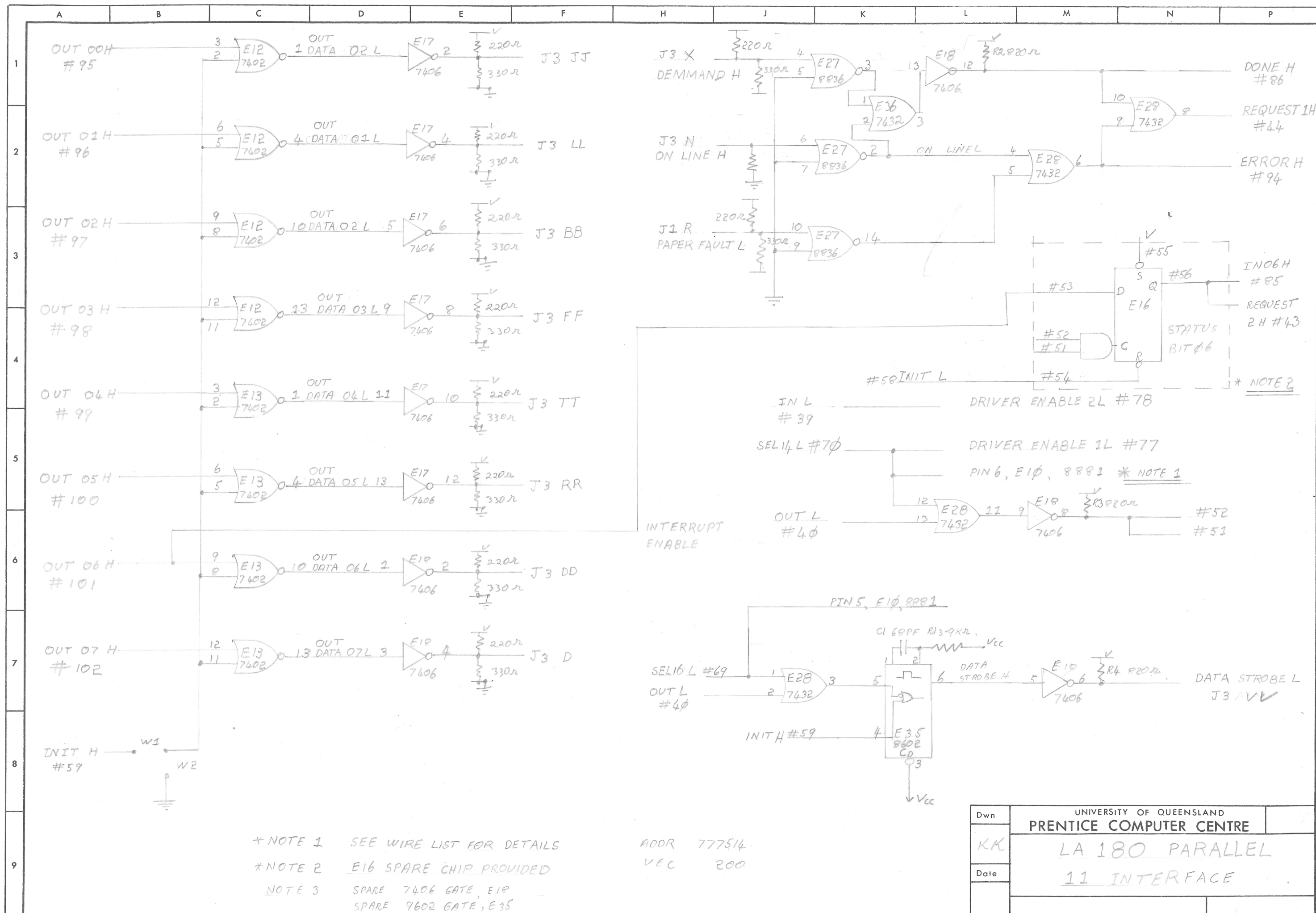
USED ON OPTION/MODEL	
LAXX-NW	
SHEET 1	OF 2

DRN. RW Counter	DATE 90 Aug 74
CHK'D. M. L. W. W.	DATE 10 AUG 74
PROJ. ENG. J. W. W. W.	DATE 9/1/76
PROD. J. W. W. W.	DATE 10/2/76

TITLE		digital	
LAXX-NW SERIAL INTERFACE			
SIZE	CODE	NUMBER	REV
B	DD	LAXX-NW	B
DIST.			

EN-01062-1A-16-R972-1325

DRB 106A



UNIVERSITY OF QUEENSLAND

MEMORANDUM TO

SUBJECT

```

*  MOV # 014 R0 : STARTING
    MOV # 163, R1 : CHAR COUNT
** MOV (177514), R2 : XBUF CONTENTS
   TSTB R2 : READY?
   BPN ** : NO
   MOV R0, 177516 : YES SEND CHAR
   INC R0 : NEXT CHAR
   DEC R1 : COUNT CHAR
   DEC : COUNT ZERO?
   TST R1 : NO
   BNE ** : YES, START OVER
   JMP *
  
```

136

Date Signature

UNIVERSITY OF QUEENSLAND

MEMORANDUM TO

SUBJECT

```

1000 * 012700
   2    014
   4    012701
   6    163
10 ** 013702
   2    177514
  14    105702
  16    100374
  20    010037
  22    177516
  24    005200
  26    005301
  30    005701
  32    001366
  34    137
  36    10000
  
```

Date Signature