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FIELD MAINTENANCE PRINT SET

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UNIT VARIATIONS COVERED BY THIS PRINT SET
LS120-HE
LS120-HF
LS120-HH
LS120-HJ

LS120

Field Maintenance Print Set

Digital Equipment Corporation

PRINT SET ORDER NO.
MP00322

EN-0124-16-16078-13271

REVISIONS	REV.		USED ON OPTION/MODEL	DRN	DATE	<div style="border: 1px solid black; padding: 2px; font-weight: bold; font-size: 1.2em; text-align: center;">digital</div>	
	CHG. NO.		LS120	<i>M. Pascardi</i>	9 FEB 77		TITLE: LS120 PRINT SET
	DATE			CHK'D	DATE		
				<i>Bill Honey</i>	10 FEB 77		
				PROJ. ENG.	DATE		
				<i>D. Richmond</i>	20 MAR 77	SIZE B CODE TC NUMBER LS120-0-1 REV.	
			SHEET 1 OF 1	FIELD SERV.	DATE	DIST.	



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DRAWING DIRECTORY

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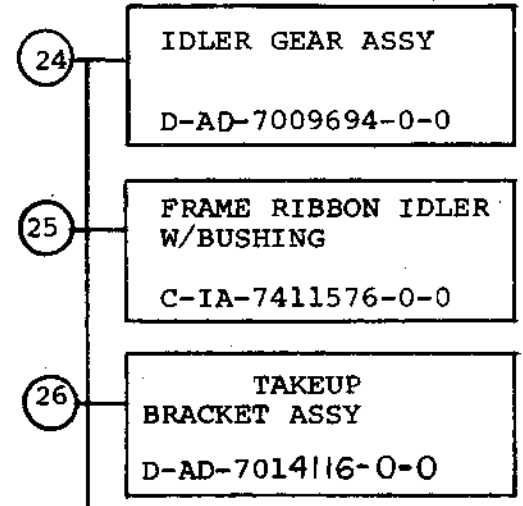
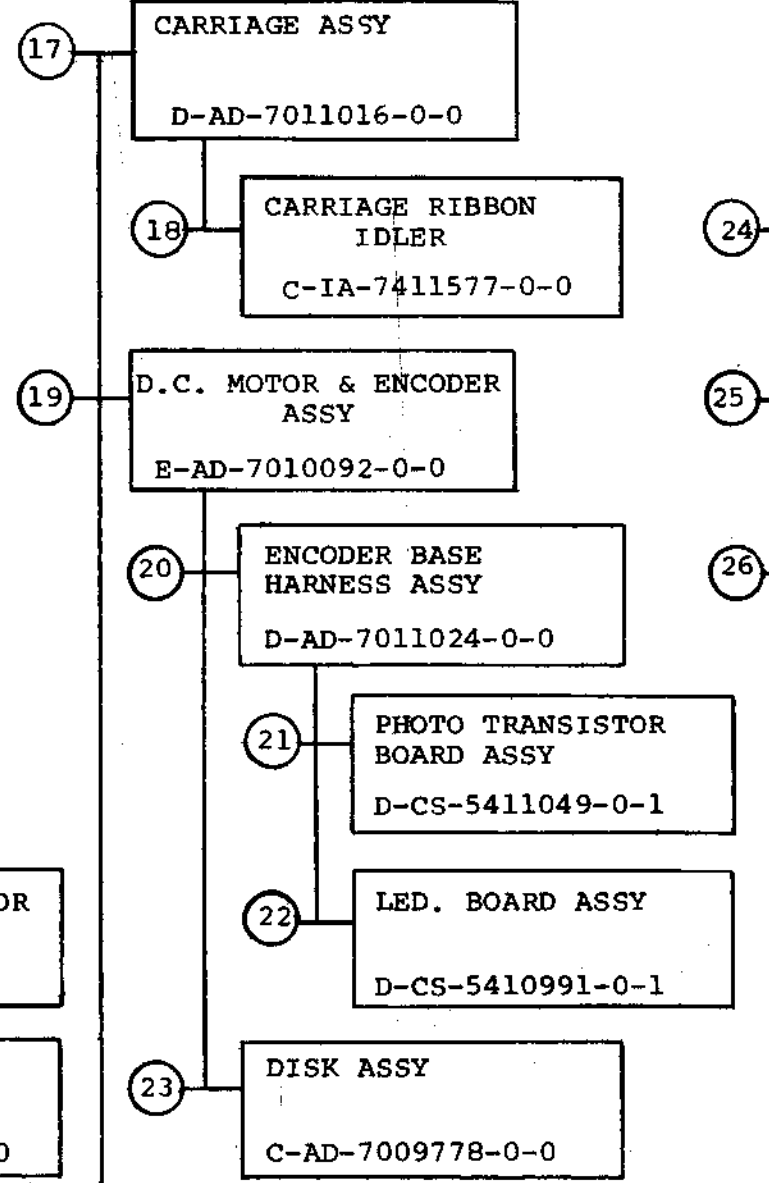
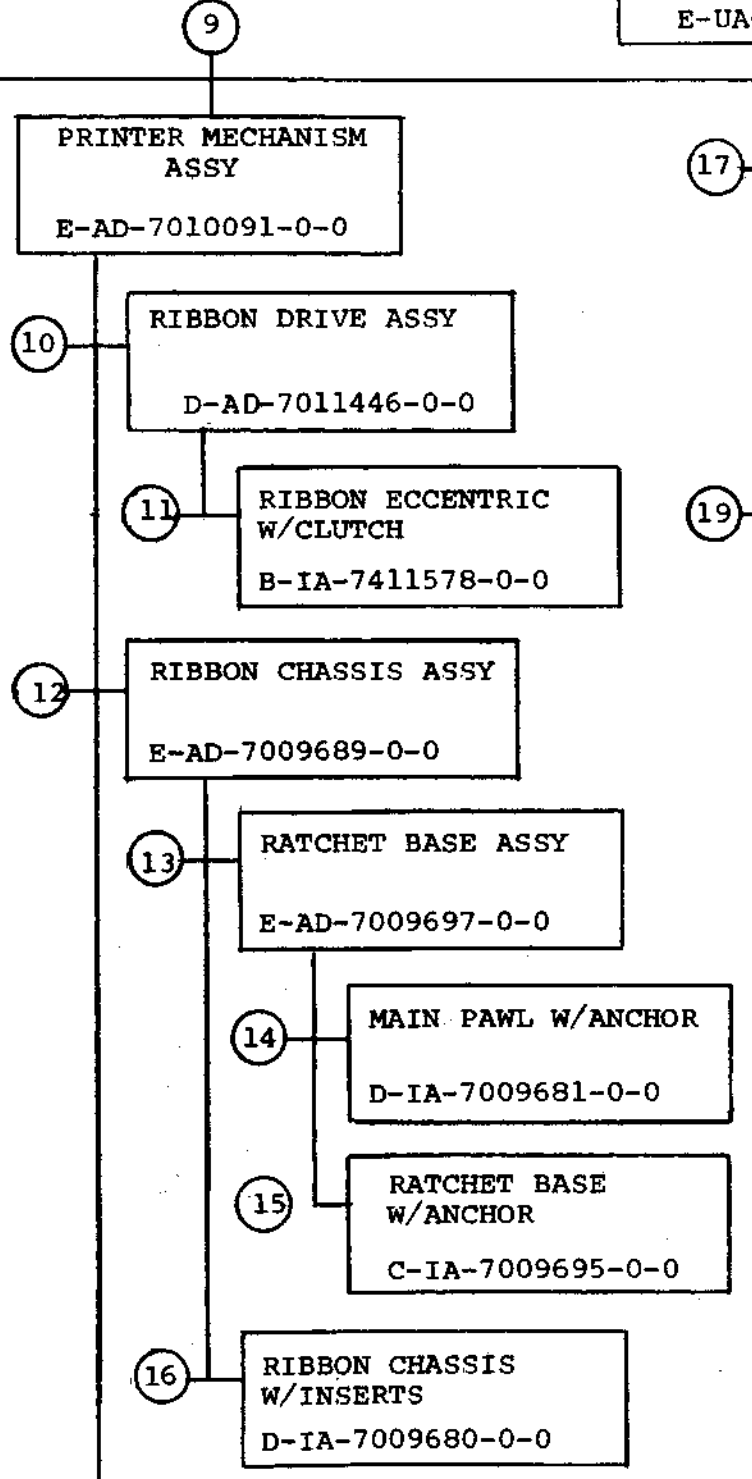
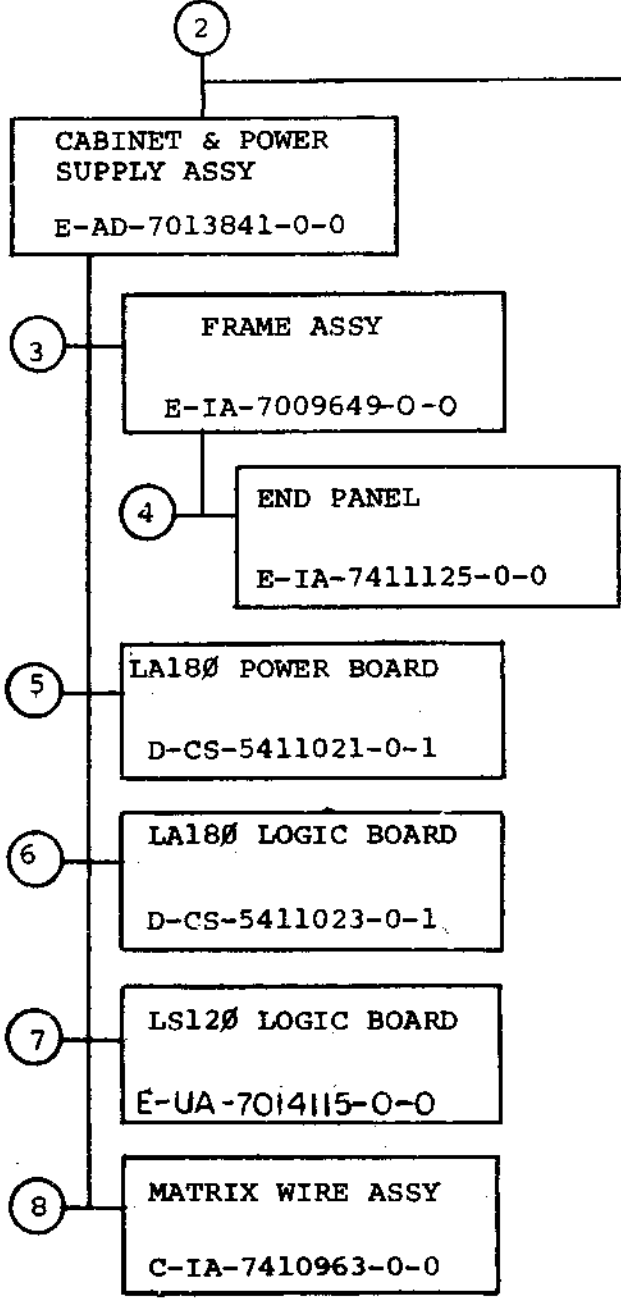
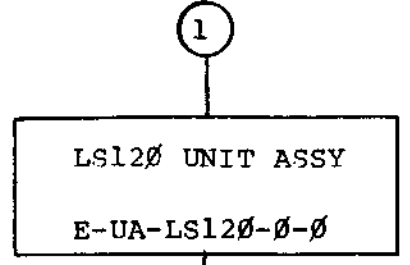
UNIT VARIATIONS	
VAR	TITLE
LS12Ø-HE	LS12Ø UNIT ASSY. (115V 6ØHZ)
LS12Ø-HF	LS12Ø UNIT ASSY. (23ØV 6ØHZ)
LS12Ø-HH	LS12Ø UNIT ASSY. (115V 5ØHZ)
LS12Ø-HJ	LS12Ø UNIT ASSY. (23ØV 5ØHZ)

REVISIONS	CHANGE NO.	REV.									
CHK											

USED ON OPTION/MODEL <div style="text-align: center;">LS12Ø</div>	DRN. <i>M. Paccarella</i>	DATE 8 FEB 77	<div style="border: 1px solid black; padding: 2px; display: inline-block; font-weight: bold;">digital</div> LS12Ø DRAWING DIRECTORY
	CHK'D. <i>B. D. Honey</i>	DATE 10 FEB 77	
	PROJ. ENG. <i>D. Richmond</i>	DATE 28 MAR 77	
	PROD. <i>M. Nelson</i>	DATE 28 MAR 77	

SHEET 1 OF 8	SIZE B	CODE DD	NUMBER LS12Ø-Ø	REV	DIST.				
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COPYRIGHT © DIGITAL EQUIPMENT CORPORATION"

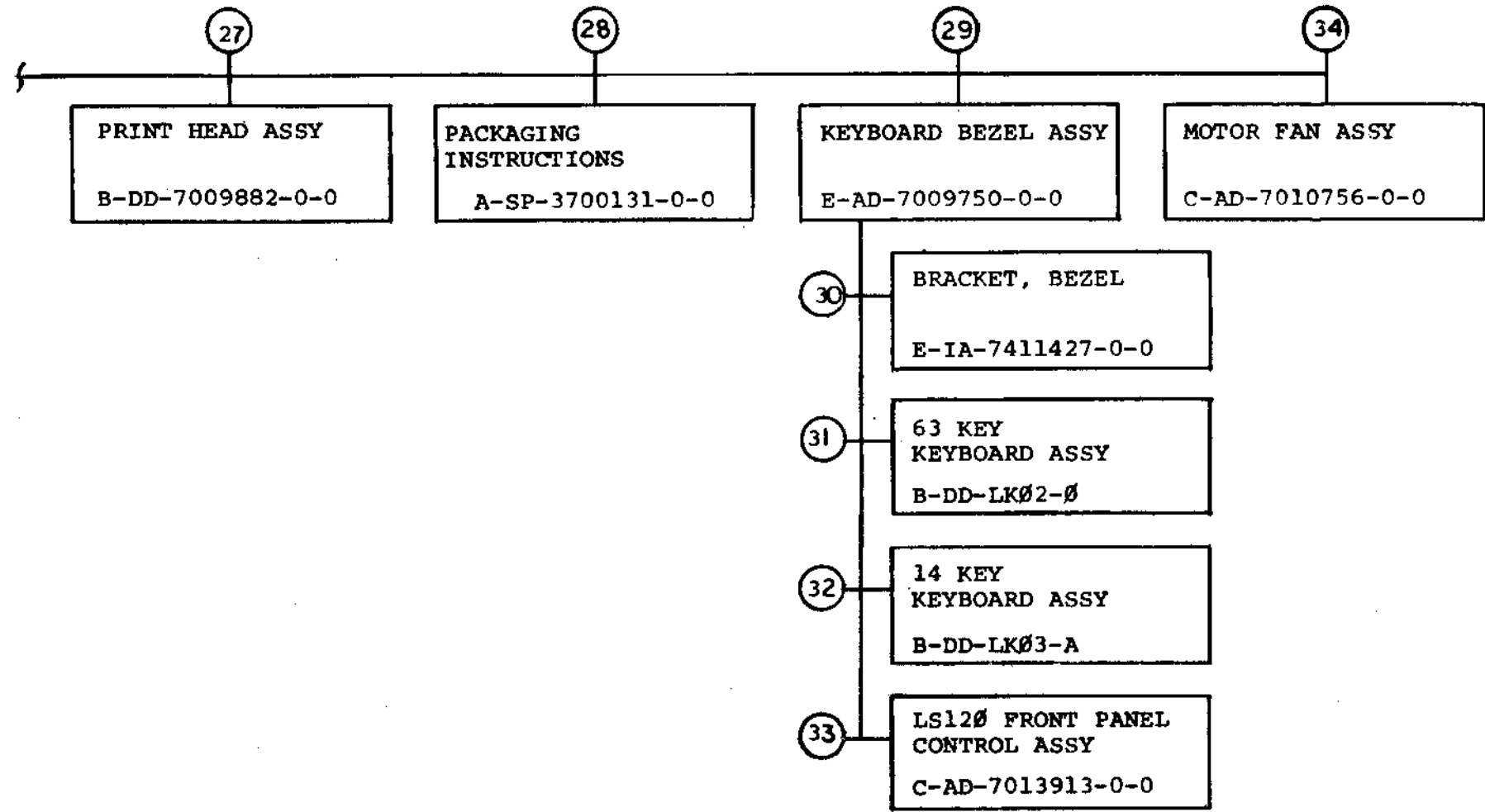


CONTINUED ON SHEET 3

TITLE	LS120 DRAWING DIRECTORY	SHEET 2 OF 8	SIZE CODE	NUMBER	REV
			B DD	LS120-0	

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CONTINUED FROM SHEET 2



TITLE	SIZE	CODE	NUMBER	REV
LS120 DRAWING DIRECTORY	SHEET 3 OF 8	B DD	LS120-0	

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE	FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
1	MP00322	FIELD MAINTENANCE PRINT SET (MP)	-		D-UA-BC05C-0-0	EIA INTERFACE CABLE	E
	B-TC-LS120-0-0	FIELD MAINTENANCE PRINT SET (TC)	-		D-UA-BC05L-0-0	CABLE JUMPER	E
	E-UA-LS120-0-0	LS120 UNIT ASSY	E/M		D-IA-7010964-0-0	AC HARNESS	E
	A-PL-LS120-0-0	LS120 UNIT ASSY (PL)	E/M		E-IA-7013916-0-0	CONTROL HARNESS	E
	D-IA-7010758-0-0	COVER	M		C-IA-7414041-0-0	BRACKET HINGE	M
	E-MD-7411116-0-0	HOUSING	M				
	C-MD-7411818-0-0	CLIP, COVER	M				
	B-MD-7413675-0-0	BEZEL SPACER	M				
	A-MD-7412103-0-0	PKG. OF PAPER	M				
	E-PS-1212009-0-0	PRINT WINDOW	M				
	A-DC-7416197-0-1	UNDERWRITERS LABEL	M				
	C-PS-3611826-0-0	NAME PLATE	M				
	D-IC-LS120-0-2	INTERCONNECTION DRAWING	E				
2	E-AD-7013841-0-0	CABINET ASSY W/POWER SUPPLY	E/M	3	E-IA-7009649-0-0	FRAME ASSY	M
	A-PL-7013841-0-0	CABINET ASSY W/POWER SUPPLY (PL)	E/M		E-IA-7411080-0-0	BASE	M
	E-IA-7411120-0-0	DOOR, CABINET	M		E-IA-7411121-0-0	HOUSING, COMPONENT FRAME ASSY	M
	B-AD-7009673-0-0	POWER CORD ASSY	E				
	C-AD-7011045-0-0	POWER CORD ASSY	E				
	D-PS-1612256-0-0	TRANSFORMER ASSY 60HZ	E/M	4	E-IA-7411125-0-0	END PANEL, FRAME ASSY	M
	C-MD-7411607-0-0	PLATE, COVER	M		C-IA-7411117-0-0	FOOT, FRAME ASSY	M
	D-AD-7009895-0-0	HARNESS, CAPACITOR	E				
	C-AD-7010001-0-0	JUMPER	E				
	D-IA-7010964-0-0	AC HARNESS	E				
	B-MD-7417011-0-0	CLIP ENCLOSURE	M				
	A-DC-7415773-0-0	FUSE DECAL	M				
	C-IA-7011657-0-0	CABLE PAPER OUT	E				
	C-MD-7412996-0-0	BRACKET SPEAKER	M	5	D-CS-5411021-0-1	1A180 POWER BOARD	E
	A-DC-7412548-0-0	FUSE RATING LABEL	M		K-CO-5411021-0-4	X-Y COORDINATE HOLE LOCATION	E
	C-MD-7413286-0-0	COVER, EMI FILTER	M		E-AH-5411021-0-5	ASSY DRILLING HOLE LAYOUT	E/M
	D-IA-7412158-0-0	PAPER GUIDE	M		B-MH-5411021-0-6	MODULE ECO HISTORY	E
	B-MD-7414144-0-0	FOAM, PROTECTIVE	M				
	C-MD-7412424-0-0	SWITCH REWORK	E/M				
	D-PS-1612257-0-0	TRANSFORMER ASSY 50HZ	E/M				
	B-MD-7415068-0-0	PIVOT, CABINET DOOR	M				
	B-MD-7415067-0-0	SCR, SPECIAL	M				
	C-MD-7415114-0-0	COVER, CAPACITOR	M				
	B-MD-7415374-0-0	SPACER, FUSE HOLDER	M				
	D-MD-7414044-0-0	SIDE RAIL (L.H.)	M				
	D-MD-7414045-0-0	SIDE RAIL (R.H.)	M				

TYPE: E ELECTRICAL
M MECHANICAL
E/M ELECTRO/MECHANICAL



TITLE
LS120 DRAWING DIRECTORY

SHEET 4 OF 8

SIZE CODE
B DD

NUMBER
LS120-0

REV

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE	FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
6	D-CS-5411023-0-1	LA18Ø LOGIC BOARD	E		B-MD-7411575-0-0	SHAFT, IDLER	M
	K-CO-5411023-0-4	X-Y COORDINATE HOLE LOCATION	E		B-MD-7411412-0-0	RETAINER, BUMPER SPRING	M
	E-AH-5411023-0-5	ASSY DRILLING HOLE LAYOUT	E/M		C-PS-1212510-0-0	SPRING, CARRIAGE BUMPER	M
	B-MH-5411023-0-6	MODULE ECO HISTORY	E		E-IA-7411028-0-0	SIDE PLATE	M
					C-MD-7413672-0-0	RESERVOIR	M
					C-MD-7413699-0-0	SPRING	M
					C-IA-7011147-0-0	MOTOR, STEPPING	E/M
					C-MD-7413705-0-0	STIFFENER	M
					B-MD-7412535-0-0	ADAPTER, LINE FEED	E/M
					B-MD-7413698-0-0	WICK	E/M
					C-MD-7414433-0-0	SCREW, TRACTOR	M
					B-MD-7415318-0-0	SHIM, CARRIAGE SHAFT	M
7	E-UA-7014115-0-0	LS12Ø LOGIC BOARD	E		C-MD-7414835-0-0	SPRING, PLAIN BEARING	M
					D-MD-7415802-0-0	BRACKET, COVER INTERLOCK	M
					C-AD-7010001-0-0	JUMPER INTERLOCK	E
8	C-IA-7410963-0-0	MATRIX WIRE ASSY	M				
	B-MD-7411279-0-0	BRAZE PREFORM	M				
	C-MD-7410876-0-0	ARMATURE BODY SOLENOID	M	10	D-AD-7011446-0-0	RIBBON DRIVE ASSY	M
	A-MD-7411280-0-0	LA3Ø MATRIX PRINTER WIRE	M		C-MD-7411426-0-0	SPRING BACKSTOP	M
					C-MD-7413526-0-0	PUSH ROD	M
					B-MD-7411123-0-0	WASHER ECCENTRIC	M
					C-MD-7411124-0-0	CLAMP, COLLAR	M
					B-MD-7411068-0-0	SHAFT, RIBBON IDLER	M
					C-MD-7411084-0-0	ROD END	M
					D-MD-7411113-0-0	BRACKET, RIBBON DRIVE	M
9	E-AD-7010091-0-0	PRINTER MECHANISM ASSY	E/M				
	D-MD-7411072-0-0	BAR, PRINT	M				
	C-MD-7411033-0-0	SHAFT CARRIAGE	M				
	B-MD-7411439-0-0	PIVOT LOWER	M				
	B-MD-7411103-0-0	RACHET, PIVOT	M				
	B-MD-7414845-0-0	BUSHING, PLAIN	M				
	C-MD-7411076-0-0	SHAFT, TRACTOR SUPPORT	M	11	B-IA-7411578-0-0	RIBBON ECCENTRIC W/CLUTCH	M
	C-MD-7411075-0-0	SHAFT, TRACTOR DRIVE	M		B-MD-7411069-0-0	ECCENTRIC RIBBON	M
	C-MD-7411425-0-0	BUSHING, TRACTOR SHAFT RETAINING	M				
	B-MD-7411098-0-0	COLLAR, SIDE PLATE	M				
	D-MD-7411441-0-0	HUB, CLUTCH	M				
	E-MD-7411440-0-0	GEAR DRIVE CLUTCH	M				
	B-MD-7411443-0-0	WASHER, CLUTCH	M				
	D-MD-7411437-0-0	KNOB, LINE FEED	M				

TYPE: E ELECTRICAL
M MECHANICAL
E/M ELECTRO/MECHANICAL

digital

TITLE LS12Ø DRAWING DIRECTORY

SHEET 5 OF 8

SIZE CODE
B DD

NUMBER
LS12Ø-Ø

REV

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE	FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
12	E-AD-7009689-0-0	RIBBON CHASSIS ASSY	M	16	D-IA-7009680-0-0	RIBBON CHASSIS W/INSERTS	M
	B-MD-7412976-0-0	CAP. STANDOFF SPOOL	M		B-MD-7416620-0-0	RETAINING RING, SPECIAL	M
	C-MD-7411058-0-0	INTERPOSER	M		C-MD-7412977-0-0	STAND OFF, SPOOL RIBBON	M
	C-MD-7411087-0-0	SPRING INTERPOSER	M				
	D-MD-7411060-0-0	SENSOR, REVERSE	M				
	C-MD-7411419-0-0	GUIDE SHOE	M				
	B-MD-7411061-0-0	WASHER, RACHET	M				
	B-IA-7411405-0-0	DISK, FRICTION	M				
	B-MD-7411103-0-0	PIVOT RATCHET	M				
	B-MD-7411098-0-0	COLLAR SIDE PLATE	M				
	D-MD-7411048-0-0	DRIVER, SPOOL	M				
	C-MD-7411105-0-0	SPRING, UPPER PAWL	M	17	D-AD-7011016-0-0	CARRIAGE ASSY	M
	C-MD-7411090-0-0	SPRING MAIN PAWL	M		B-MD-7411115-0-0	SHAFT, IDLER	M
	D-MD-7411432-0-0	RATCHET WHEEL	M		D-MD-7413606-0-0	LEVER, CARRIAGE ADJUSTMENT	M
					E-PS-1212544-0-0	CARRIAGE	M
					7415125	BUSHING, ECCENTRIC	M
13	E-AD-7009697-0-0	RATCHET BASE ASSY	M				
	B-MD-7411063-0-0	PAWL, PIVOT	M				
	D-MD-7411054-0-0	PAWL, UPPER	M	18	C-IA-7411577-0-0	CARRIAGE RIBBON IDLER W/BUSHING	M
					C-MD-7411102-0-0	IDLER, CARRIAGE RIBBON	M
14	D-IA-7009681-0-0	MAIN PAWL W/ANCHOR	M	19	E-AD-7010092-0-0	D.C. MOTOR & ENCODER BASE	E/M
	B-MD-7411104-0-0	ANCHOR, SPRING	M		D-MD-7416402-0-0	CLAMP PULLEY	M
	B-MD-7411059-0-0	PAWL MAIN	M		D-MD-7411416-0-0	DUST COVER ENCODER	M
					C-MD-7411124-0-0	CLAMP, COLLAR	M
					C-MD-7414943-0-0	PULLEY, DRIVE	M
					C-IA-7010495-0-0	D.C. MOTOR ASSY	E/M
15	C-IA-7009695-0-0	RATCHET BASE W/ANCHOR	M				
	B-MD-7411104-0-0	ANCHOR SPRING	M				
	D-MD-7411055-0-0	BASE, RATCHET	M				

TYPE: E ELECTRICAL
M MECHANICAL
E/M ELECTRO/MECHANICAL



TITLE
LS12Ø DRAWING DIRECTORY

SHEET 6 OF 8

SIZE CODE
B DD

NUMBER
LS12Ø-Ø

REV

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE	FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
20	D-AD-7011024-0-0	ENCODER BASE HARNESS ASSY	E/M	24	D-AD-7009694-0-0	IDLER GEAR ASSY	M
	C-IA-7011023-0-0	HARNESS ENCODER	E		C-MD-7416219-0-0	STANDOFF, GEAR	M
	B-MD-7411580-0-0	ADHESIVE ENCODER MASK	M		B-MD-7411420-0-0	BRACKET, GEAR	M
	C-MD-7411089-0-0	MASK, ENCODER	M				
	D-MD-7411603-0-0	GIZZIE ENCODER	E/M				
21	D-CS-5411049-0-1	PHOTO TRANSISTOR BOARD ASSY	E/M	25	C-IA-7411576-0-0	FRAME RIBBON IDLER W/BUSHING	M
	K-CO-5411049-0-4	X-Y COORDINATE HOLE LOCATIONS	E/M		D-MD-7411085-0-0	IDLER, FRAME RIBBON	M
	D-AH-5411049-0-5	ASSY DRILLING HOLE LAYOUT	E/M				
	B-MH-5411049-0-6	MODULE ECO HISTORY	E/M				
	D-IA-5010990-0-0	ETCH CIRCUIT BOARD	E/M				
22	D-CS-5410991-0-1	L.E.D. BOARD ASSY	E/M	26	D-AD-7014116-0-0	TAKEUP BRACKET ASSY	E/M
	K-CO-5410991-0-4	X-Y COORDINATE HOLE LOCATIONS	E/M		C-MD-7413753-0-0	SUPPORT, PIVOT PIN	M
	D-AH-5410991-0-5	ASSY DRILLING HOLE LAYOUT	E/M		C-MD-7416249-0-0	SPRING TAKEUP ARM	M
	B-MH-5410991-0-6	MODULE ECO HISTORY	E/M		D-IA-7413603-0-0	VFU & TAKEUP BRACKET	M
	D-IA-5010990-0-0	ETCH CIRCUIT BOARD	E/M				
23	C-AD-7009778-0-0	DISK ASSY	M				
	C-MD-7411088-0-0	DISK, ENCODER	M				
	B-MD-7411757-0-0	ADHESIVE, ENCODER DISK	M				
	C-MD-7411414-0-0	HUB, ENCODER	M				

TYPE: E ELECTRICAL
M MECHANICAL
E/M ELECTRO/MECHANICAL



TITLE
LS12Ø DRAWING DIRECTORY

SHEET 7 OF 8

SIZE CODE
B DD

NUMBER
LS12Ø-Ø

REV

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE	FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
				31	B-DD-LK02-0	63KEY KEYBOARD ASSY	E/M
27	B-DD-7009882-0-0	PRINT HEAD ASSY	E/M	32	B-DD-LK03-0	14KEY KEYBOARD ASSY	E/M
28	A-SP-3700131-0-0	PACKAGING INSTRUCTIONS	M	33	C-AD-7013913-0-0	LA36 FRONT PANEL CONTROL ASSY	E/M
					A-SP-7011525-0-2	TEST SPEC	E/M
					A-SP-LA36-0-1	ENGINEERING SPEC	E/M
					D-PS-1212287-0-0	KEYCAP SET	M
					D-CS-5411727-0-1	FRONT PANEL CONTROL ASSY	E/M
29	E-AD-7009750-0-0	KEYBOARD BEZEL ASSY	M				
	D-AD-7011519-0-0	LA36 KEYBOARD CABLE	M				
	C-AD-7010001-0-0	JUMPER	M				
	C-IA-7008612-0-0	CABLE, KEYBOARD	M				
				34	C-AD-7010756-0-0	MOTOR FAN ASSY	E/M
					D-MD-7413337-0-0	FAN EKT, DC MOTOR	E/M
					C-AD-7010001-0-0	JUMPER	E
30	E-IA-7411427-0-0	BRACKET, BEZEL	M				
	C-SS-7411427-0-2	KEYBOARD BEZEL	M				

TYPE: E ELECTRICAL
M MECHANICAL
E/M ELECTRO/MECHANICAL

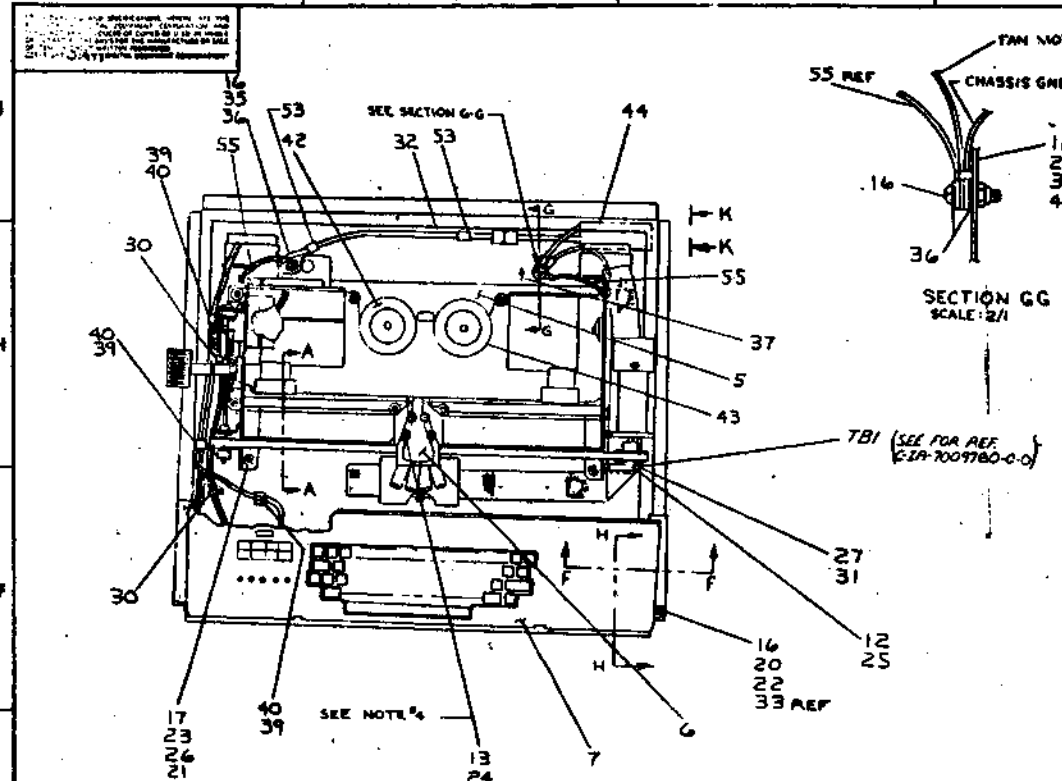


TITLE
LS120 DRAWING DIRECTORY

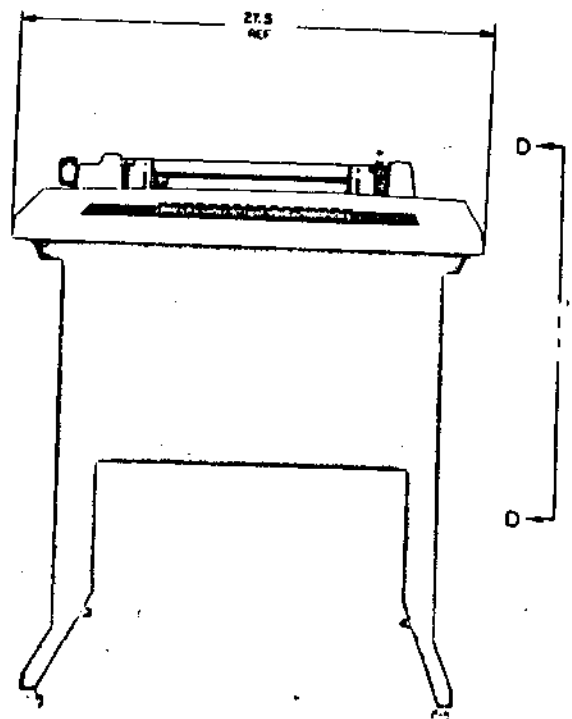
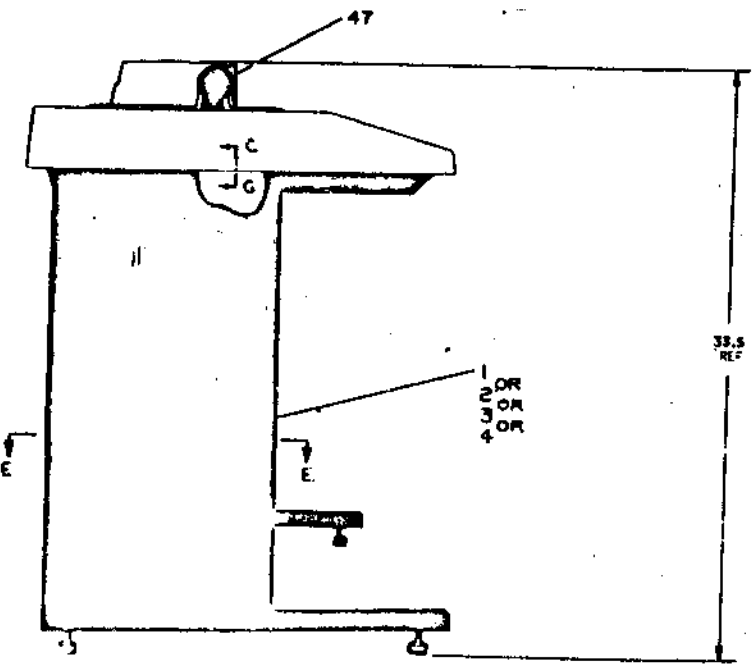
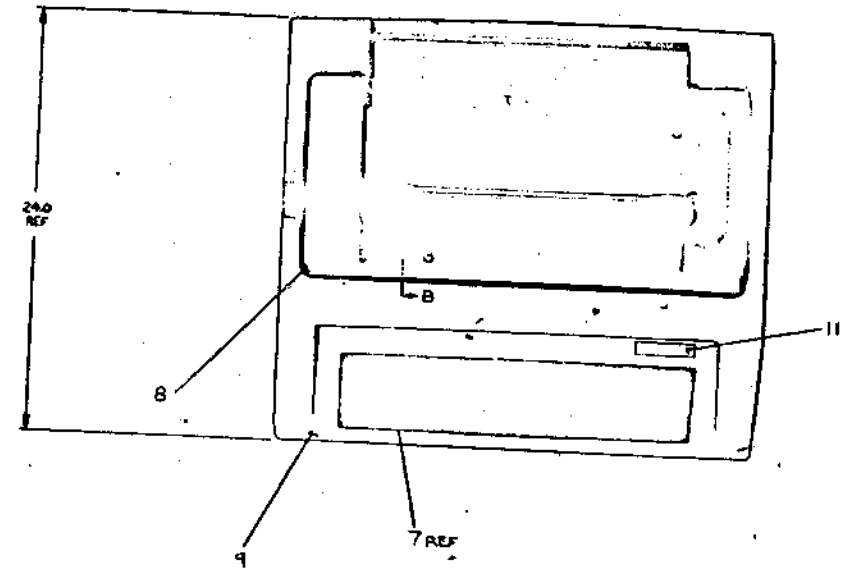
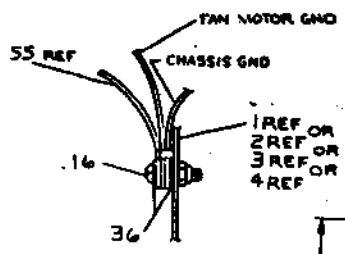
SHEET 8 OF 8
SIZE CODE
B DD

NUMBER
LS120-0

REV



TOP VIEW OF MACHINE SHOWN W/OUT COVER (ITEM 8) & HOUSING (ITEM 9)



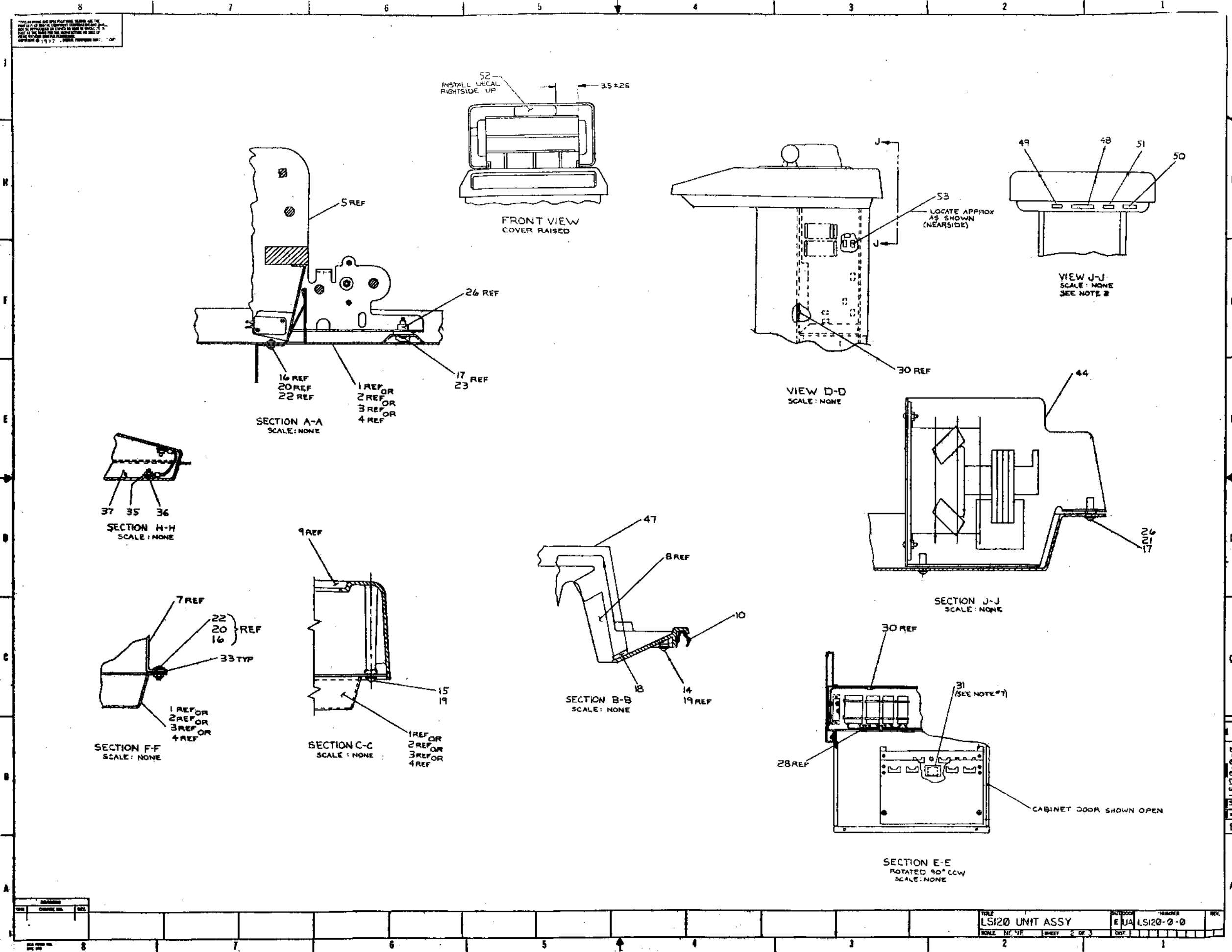
1. REMOVE PROTECTIVE PAPER FROM DOUBLE COATED TAPE (ITEM 31) AND USE TO STICK CABLE CLAMPS (ITEM 27) TO CABLE OF PRINT HEAD (ITEM 6) IN POSITION SHOWN. MAKE 10° FOLD IN CABLE & INSTALL INTO PRINTER.
2. INSURE ALL LABELS (ITEM 31) IN POSITION SHOWN AFTER PEELING OFF PROTECTIVE PAPER.
3. HEAD GAP SHALL BE .0035±0.0015" WITH DIMENSION BEING WITHIN .0015" TIR ON BOTH ENDS.
4. ALL WIRES TERMINATING ON KB-S1 ARE TO BE COVERED WITH SHRINK TUBING (ITEM 32).
5. WIRES FROM T1 TO S1-1 (S1-2 ARE TO BE TWISTED AND SLEEVED).
6. UL E.C.S.A. LABELS TO BE APPLIED ONLY WHEN UNIT HAS MET ALL UL E.C.S.A. REQUIREMENTS.
7. INSULATE CRYSTAL WITH TAPE (ITEM 31). EXPOSE ADHESIVE ON ONE SIDE ONLY.

LEGEND	
NUMBER	VARIATION
LS120-HE	115V 60Hz
LS120-HF	220V 60Hz
LS120-HH	115V 50Hz
LS120-HJ	220V 50Hz

CAUTION: OFF SHEET PARTS LIST EXISTS SEE A-PL-LS120-0-0

	LS120 UNIT ASSY
SEE PARTS LIST	EIA-700980-0-0

THIS DRAWING AND SPECIFICATIONS HEREBY ARE THE PROPERTY OF BUSHNELL TELEPHONE SYSTEMS, INC. AND ARE NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM BUSHNELL TELEPHONE SYSTEMS, INC.



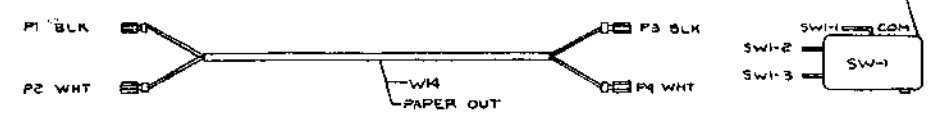
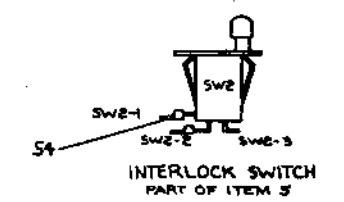
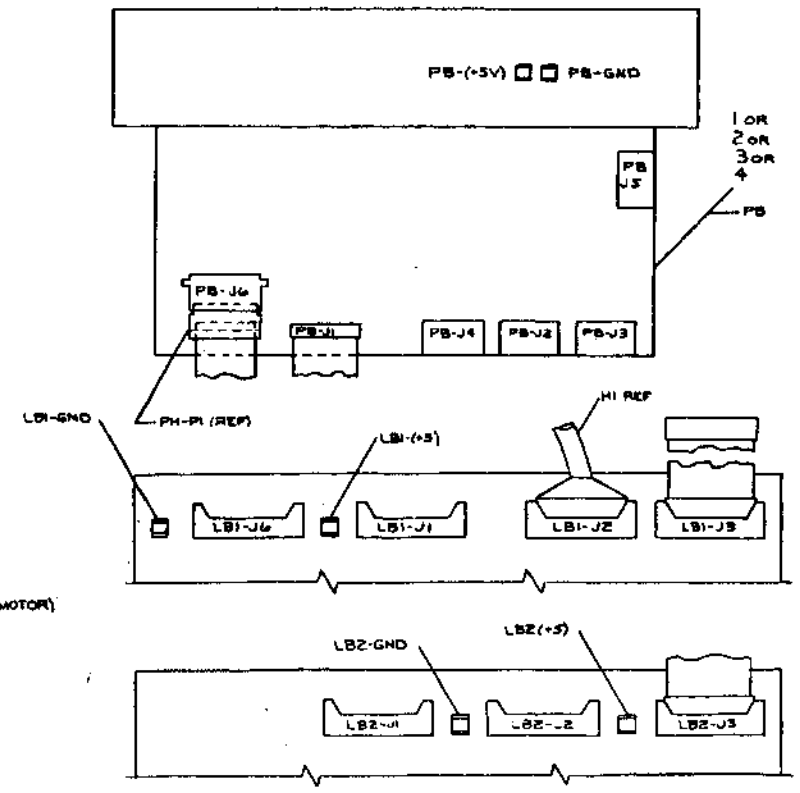
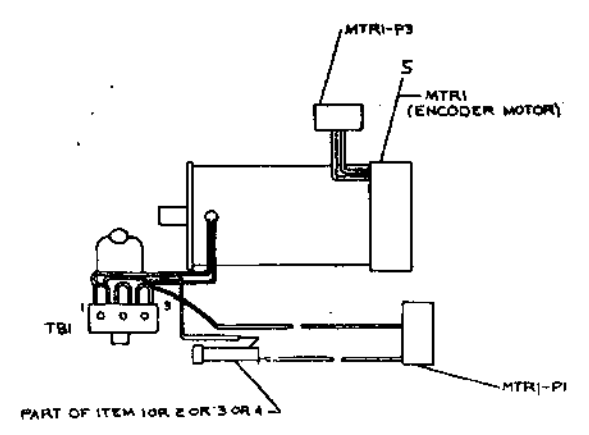
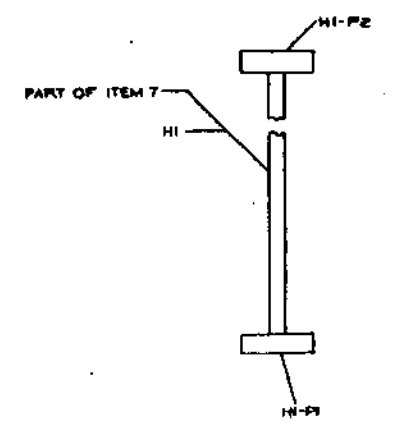
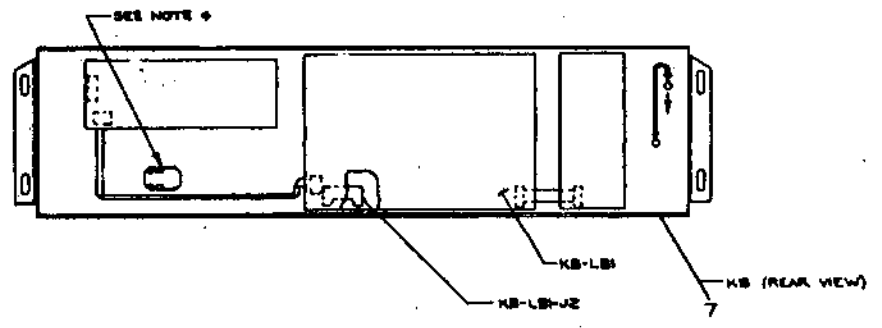
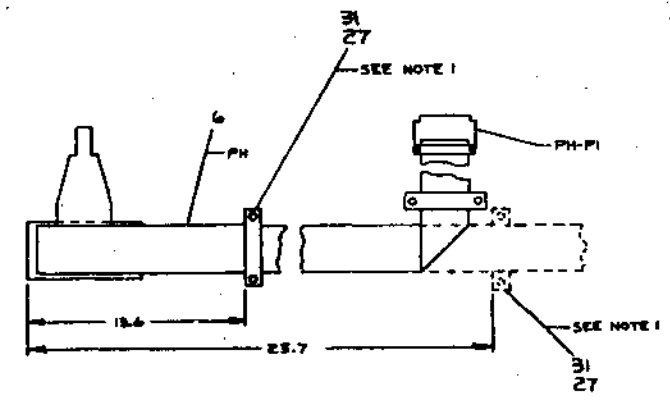
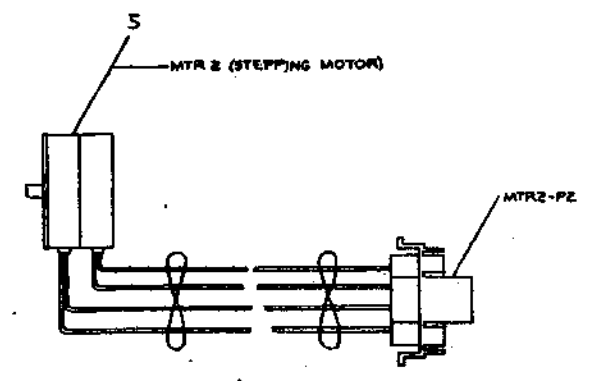
REV	DATE	BY	CHKD

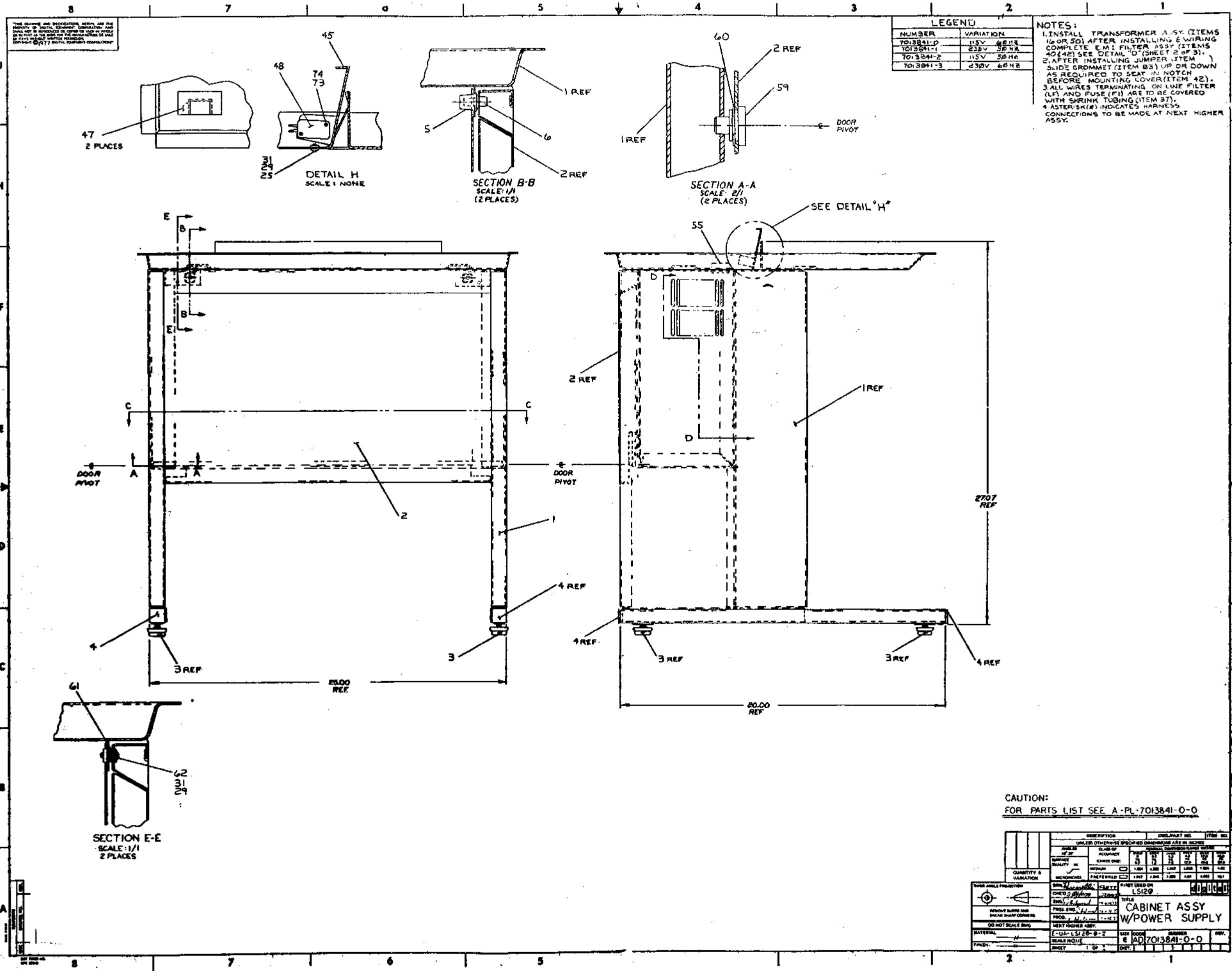
TITLE	LS120 UNIT ASSY	REV	
SCALE	1" = 1"	SHEET	2 OF 3
DESIGN	EJA	NUMBER	LS120-0-0
DATE			

LS120-0-0

REVISIONS
 DATE CHANGED BY

WIRE TABLE							
ITEM NO.	AWG	COLOR	CONN FROM	TERM	CONN TO	TERM	REMARKS
14	GRN		MTR1-P1		PB-J4		SEE SHEET 1
18	BLK		MTR1-P1		CAB. GND		
18	BLK		TBI-3		PE-1		
			MTR1-P3		CH-J		
			HI-P2		LB-J2		
22	WHT		HI-J3		KB-53-4		SEE 1009150-0-0
			HI-J3		KB-53-3		ITEM 22
			HI-J4		KB-52-4		
			HI-J4-1		KB-52-6		
			HI-J4-2		KB-53-3		
22	BLK		HI-J4-3		KB-53-2		
			HI-P1		KB-LB1-J2		
6			PH-P1		PB-J6		
3			MTR2-P2		PB-J5		
1 OR 2 OR 3 OR 4	18	BLK	F2-2		MTR1-P1 PW8		SEE 10001-7-0
2 OR 3 OR 4	18	BLK	WI4-P1		SW1-1		
3 OR 4	TWP	WHT	WI4-P2		SW1-3		
4	18	BLK	WI4-P3		SW2-1		
	TWP	WHT	WI4-P4		SW2-2		





SEE DRAWING FOR DIMENSIONS

ELECTRONIC INDUSTRIES

QUANTITY & VARIATION		DESCRIPTION		DRAWING NO.		ITEM NO.	
QTY	VAR	DESCRIPTION	QTY	VAR	ITEM NO.	QTY	VAR
1		TRANSFORMER ASSY	1		16	1	
1		EMI FILTER ASSY	1		40	1	
1		JUMPER	1		3	1	
1		GROMMET	1		83	1	
1		COVER	1		42	1	
1		SHRINK TUBING	1		37	1	
1		LINE FILTER	1		LF	1	
1		FUSE	1		FI	1	

REVISIONS

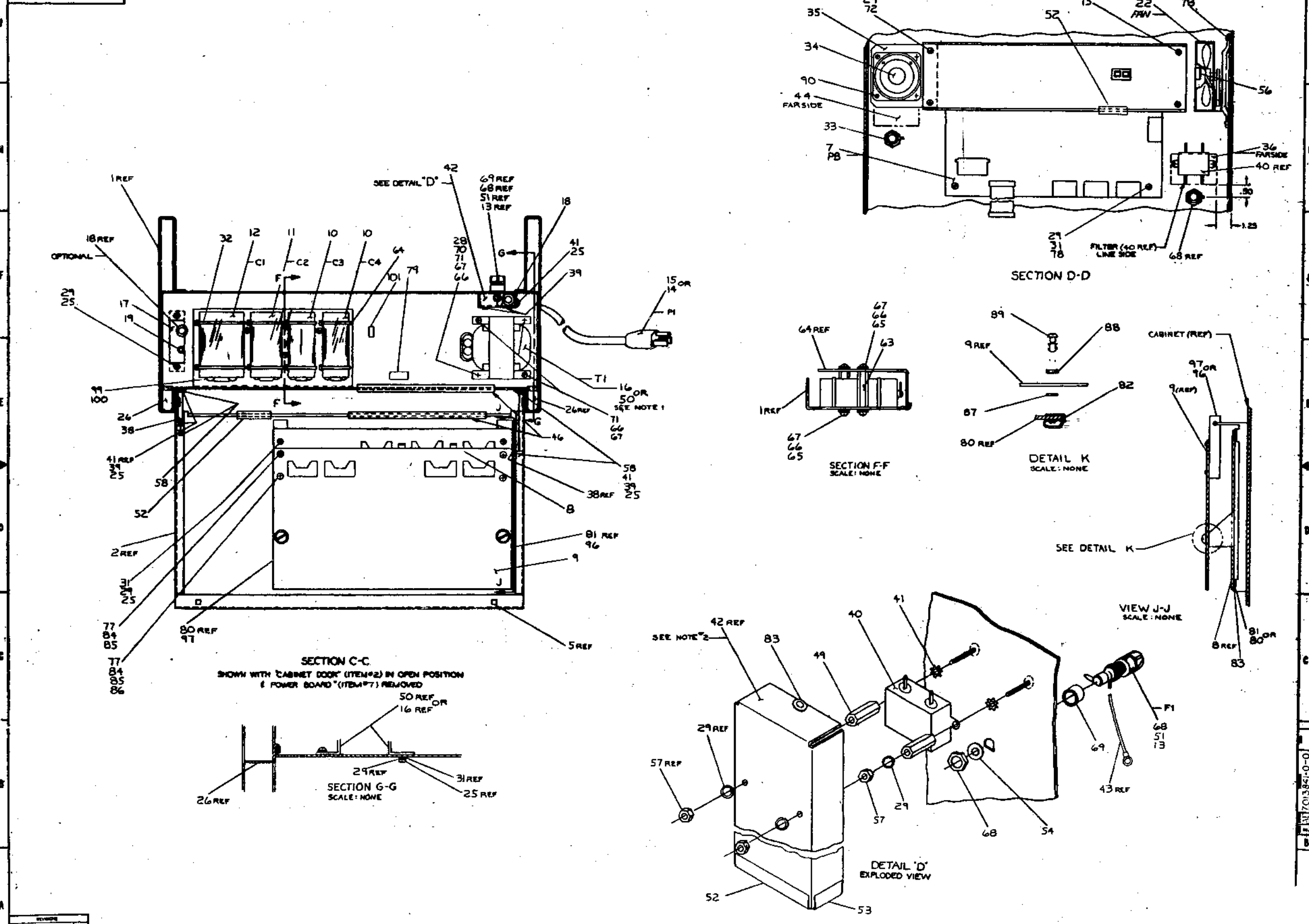
NO.	DATE	DESCRIPTION
1	11/11/54	REVISED TO SHOW CHANGES TO CABINET ASSY

APPROVALS

DESIGNED BY: *[Signature]*
 DRAWN BY: *[Signature]*
 CHECKED BY: *[Signature]*
 TITLE: CABINET ASSY W/POWER SUPPLY
 PART NO: AD7013841-0-0
 SHEET: 1 OF 3

REVISIONS

NO.	DESCRIPTION	DATE

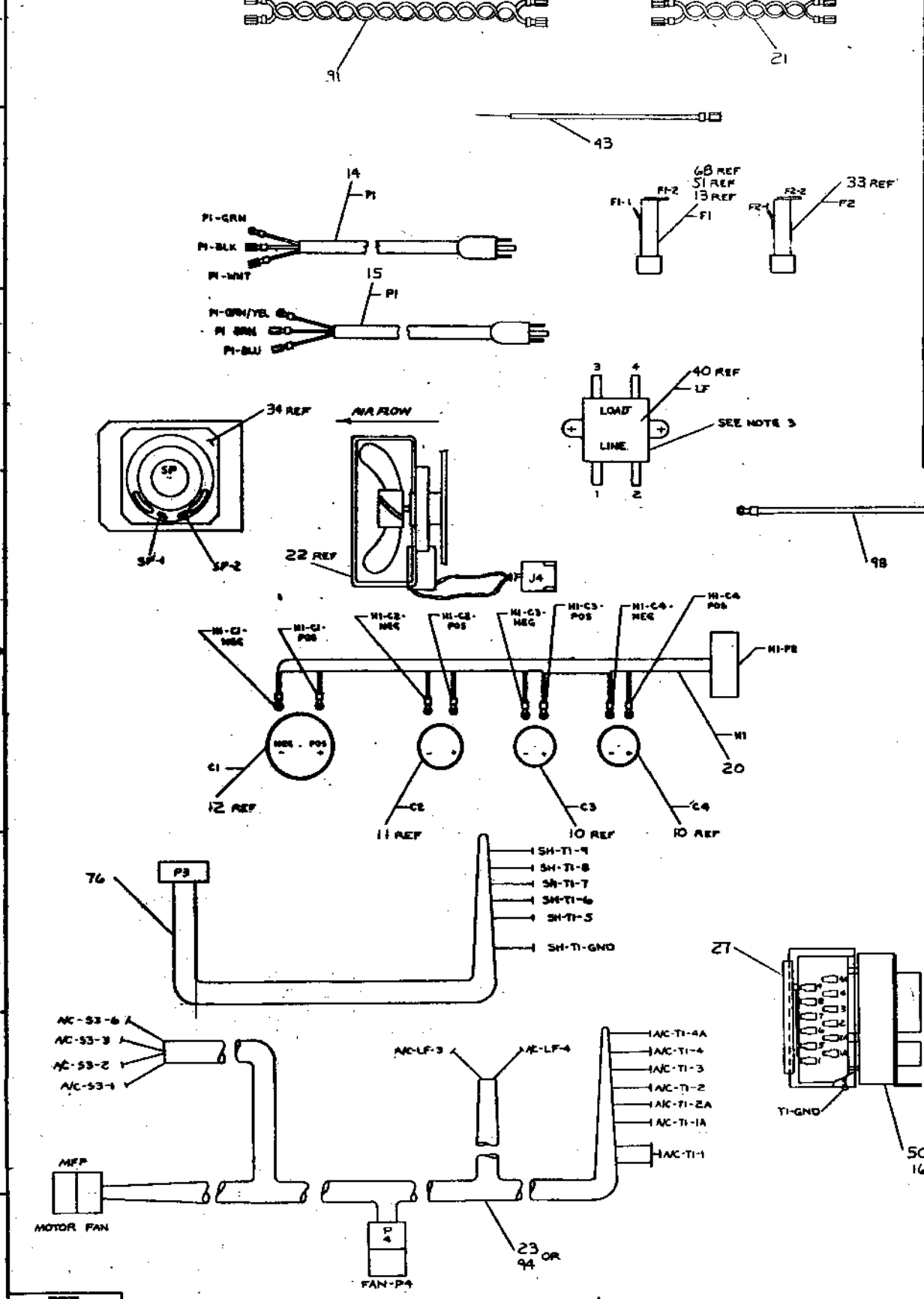


NO.	DESCRIPTION	DATE

TITLE CABINET W/POWER
SY
SCALE: NONE

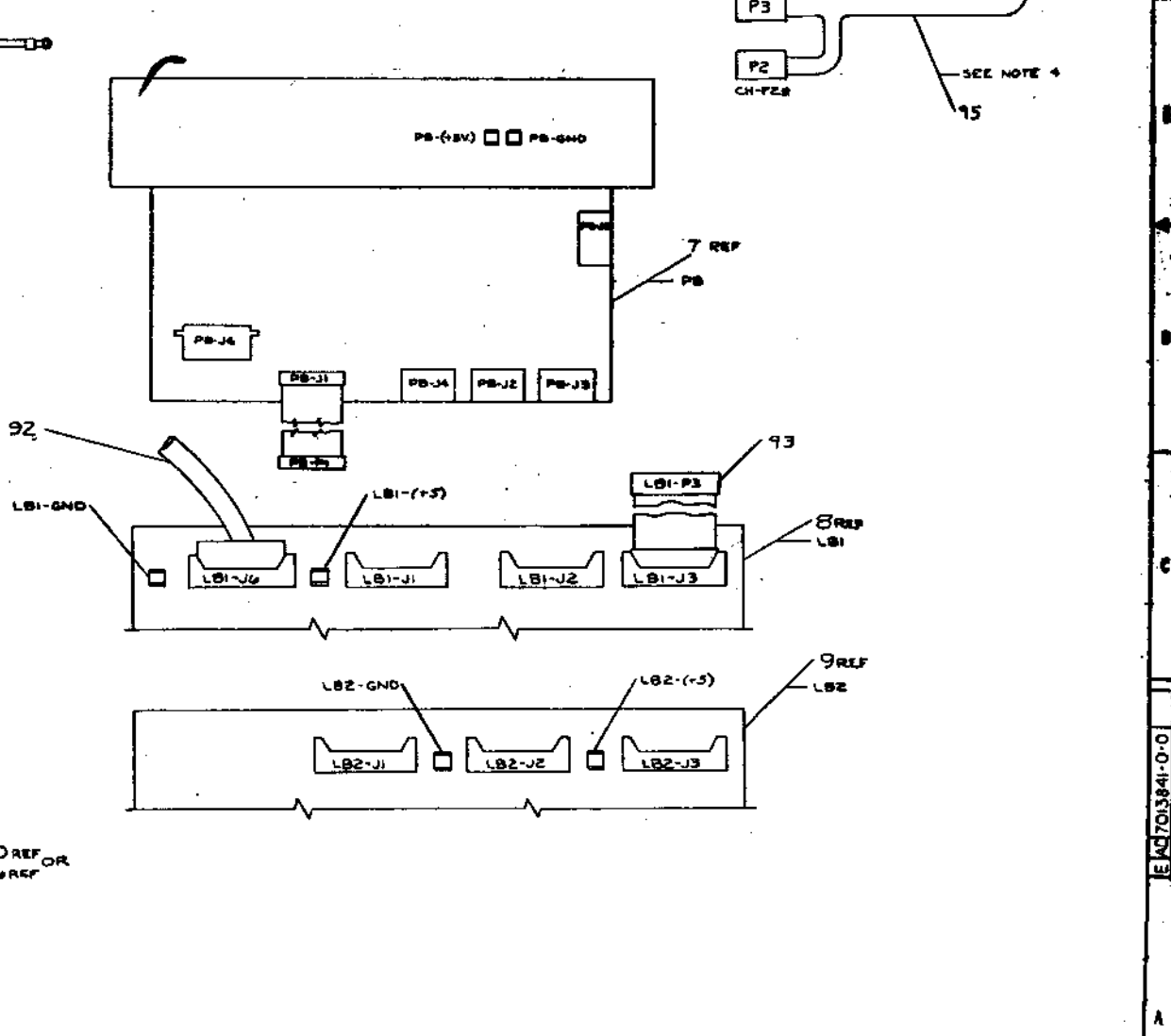
17038510-0

THIS DRAWING AND ALL INFORMATION HEREON IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE AND IS TO BE CONTAINED IN THE CABINET ASSEMBLY DRAWING SET. IT IS THE PROPERTY OF THE MANUFACTURER AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.



WIRE TABLE						
ITEM NO	AWG	COLOR	CONN	TERM	TO	REMARKS
14	14	BLK	PI-BLK	FI-1	FI-1	115 V
		GRN	PI-GRN	GND	GND	
		WHT	PI-WHT	LF-1	LF-1	
15	18	BRN	PI-BRN	FI-1	FI-1	230 V
		GRN/YEL	PI-GRN/YEL	GND	GND	
		BLU	PI-BLU	LF-1	LF-1	
23	14	WHT	AC-53-3	53-3	A/C-LF-3	A/C HARNESS 115 VAC
		BLK	AC-53-1	53-1	A/C-LF-4	
		WHT	AC-53-6	53-6	53-6	
		WHT	AC-TI-4	TI-4	TI-4	
		BLK	AC-TI-1	TI-1	TI-1	
		WHT	AC-53-3	53-3	53-3	
23 OR 94	14	BLK	AC-53-2	53-2	53-2	A/C HARNESS
		---	A/C-P4	FAN-J4	FAN-J4	
20	14	GRN	HI-C1-POS	C1-POS	C1-POS	
		BLK	HI-C2-NEG	C2-NEG	C2-NEG	
		RED	HI-CE-POS	C2-POS	C2-POS	
		BLU	HI-C3-NEG	C3-NEG	C3-NEG	
		BLK	HI-C3-POS	C3-POS	C3-POS	
		GRN	HI-C4-NEG	C4-NEG	C4-NEG	
		---	HI-C4-POS	C4-POS	C4-POS	
		---	HI-PE	PE-J2	PE-J2	
21	14	BLK	PB-GND	LB2-GND	LB2-GND	SECONDARY HARNESS P3
		TWP	PB-(+5V)	LB2-(+5V)	LB2-(+5V)	
76	14	YEL	SH-TI-7	TI-7	TI-7	SECONDARY HARNESS P3
		YEL	SH-TI-3	TI-3	TI-3	
		BLU	SH-TI-9	TI-9	TI-9	
		GRN	SH-TI-6	TI-6	TI-6	
		BLU	SH-TI-8	TI-8	TI-8	

WIRE TABLE						
ITEM NO	AWG	COLOR	CONN	TERM	TO	REMARKS
98	14	GRN	OP-SW-BRKT	BASE-PAN	BASE-PAN	
		---	LB1-P3	LB2-J3	LB2-J3	
91	14	RED	PB-(+5V)	LB1-(+5V)	LB1-(+5V)	SPEAKER
		BLK	PB-GND	LB1-GND	LB1-GND	
95	24	GRN	CH-SP-1	SP-1	SP-1	
		WHT	CH-SP-2	SP-2	SP-2	
23	14	BLK	AC-TI-1	TI-1	TI-1	A/C HARNESS 115 VAC
		BLK	AC-TI-1A	TI-1A	TI-1A	
		WHT	AC-TI-2	TI-2	TI-2	
		WHT	AC-TI-2A	TI-2A	TI-2A	
		BLK	AC-TI-3	TI-3	TI-3	
		WHT	AC-TI-4	TI-4	TI-4	
94	14	WHT	AC-TI-4A	TI-4A	TI-4A	A/C HARNESS 230 VAC
		BLK	AC-TI-1	TI-1	TI-1	
		WHT	AC-TI-2	TI-2	TI-2	
		BLK	AC-TI-2A	TI-2A	TI-2A	
95	---	---	CH-P2	LB1-J1	LB1-J1	CONTROL HARNESS
		---	CH-P3	LB2-J1	LB2-J1	



DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS PARTS LIST					QUANTITY VARIATION															
MADE BY <i>M. Pascarelli</i>		CHECKED <i>Bill Hoyt</i>		SECTION	LS120-HE	LS120-HF	LS120-HH	LS120-HJ												
DATE <i>2 FEB 77</i>		DATE <i>28 MAR 77</i>		1																
ENG <i>D. Richmond</i>		PROD <i>M. Nelson</i>		ISSUED SECT.																
DATE <i>28 MAR 77</i>		DATE <i>28 MAR 77</i>		1																
ITEM NO.	DWG NO./PART NO.	DESCRIPTION																		
1	E-AD-7013841-0-0	CABINET ASSY W/POWER SUPPLY (115V)60 HZ			1	-	-	-												
2	E-AD-7013841-3-0	CABINET ASSY W/POWER SUPPLY (230V)60 HZ			-	1	-	-												
3	E-AD-7013841-2-0	CABINET ASSY W/POWER SUPPLY (115V)50 HZ			-	-	1	-												
4	E-AD-7013841-1-0	CABINET ASSY W/POWER SUPPLY (230V)50 HZ			-	-	-	1												
5	E-AD-7010091-1-0	PRINTER MECHANISM ASSY			1	1	1	1												
6	D-AD-7009882-0-0	PRINT HEAD ASSY			1	1	1	1												
7	E-AD-7009750-5-0	KEYBOARD BEZEL ASSY			1	1	1	1												
8	D-IA-7011447-0-0	COVER, SUB ASSY			1	1	1	1												
9	E-MD-7411116-0-0	HOUSING			1	1	1	1												
10	C-MD-7411818-0-0	CLIP, COVER			2	2	2	2												
11	3611826-1-0	NAME PLATE, LS120			1	1	1	1												
12	9006011-1	SCR, PHL PAN HD #4-40 x .38 LG			4	4	4	4												
13	9007793-1	SCR, PHL PAN HD #6-32 x .56 LG			4	4	4	4												
14	9009622-01	SCR, PHL PAN HD #6-18 x .38 LG			2	2	2	2												
15	9009630-01	SCR, PHL PAN HD #6-18 x .50 LG			9	9	9	9												
16	9006037-1	SCR, PHL PAN HD #8-32 x .38 LG			9	9	9	9												
17	9008955-1	SCR, PHL PAN HD #10-32 x .94 LG			7	7	7	7												
18	9007834-1	FOAM TAPE			A/R	A/R	A/R	A/R												
19	9006653	WASHER, FLAT #6			9	9	9	9												
20	9006660	WASHER, FLAT #8			7	7	7	7												
21	9006664	WASHER, FLAT #10			7	7	7	7												
22	9006690	WASHER, SPLIT LOCK #8			7	7	7	7												
TITLE LS120 UNIT ASSY				ASSY NO. E-UA-LS120-0-0	SIZE A	CODE PL	NUMBER LS120-0-0				REV	ECO NO.								
SHEET 1 OF 3				DIST																

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS PARTS LIST					QUANTITY VARIATION															
MADE BY <i>M. Pascarelli</i>		CHECKED <i>Bill Hoyt</i>		SECTION	LS120-HE	LS120-HF	LS120-HH	LS120-HJ												
DATE <i>2 FEB 77</i>		DATE <i>28 MAR 77</i>		1																
ENG <i>D. Richmond</i>		PROD <i>M. Nelson</i>		ISSUED SECT.																
DATE <i>28 MAR 77</i>		DATE <i>28 MAR 77</i>		1																
ITEM NO.	DWG NO./PART NO.	DESCRIPTION																		
23	9007906	WASHER, SPLIT LOCK #10			4	4	4	4												
24	9006633	WASHER, INT TOOTH LOCK #6			4	4	4	4												
25	9006557	NUT, KEPS #4-40			4	4	4	4												
26	9008896	NUT, WELL #10-32			7	7	7	7												
27	1202704	CLAMP, CABLE			2	2	2	2												
28	9007031	TIE, CABLE			A/R	A/R	A/R	A/R												
29																				
30	9008340	CLIP, HARNESS			2	2	2	2												
31	9007834	TAPE, DOUBLE COATED .50 WIDE			A/R	A/R	A/R	A/R												
32	9107253-09	TUBING, SHRINKABLE			A/R	A/R	A/R	A/R												
33	B-MD-7413675-0-0	BEZEL SPACER			2	2	2	2												
34	A-SP-3700131-0-0	PACKAGING INSTRUCTIONS			1	1	1	1												
35	9006563	NUT, KEPS #8-32			2	2	2	2												
36	9008072	WASHER, EXT TOOTH LOCK #8			4	4	4	4												
37	3612680	DECAL, GROUND SYMBOL			3	3	3	3												
38	EK-LS120-OP-001	OPERATING INSTRUCTIONS (LS120)			1	1	1	1												
39	9008264	MOUNT, CABLE TIE, ADHESIVE BACKED			3	3	3	3												
40	9007880	TIE, CABLE			4	4	4	4												
41	A-MD-7412103-0-0	PKG. OF PAPER (100 SHEETS)			1	1	1	1												
42	3612153	RIBBON SPOOL W/RIBBON			1	1	1	1												
43	1212008	RIBBON SPOOL (EMPTY)			1	1	1	1												
44	C-AD-7010756-0-0	MOTOR FAN ASSY			1	1	1	1												
TITLE LS120 UNIT ASSY				ASSY NO. E-UA-LS120-0-0	SIZE A	CODE PL	NUMBER LS120-0-0				REV	ECO NO.								
SHEET 2 OF 3				DIST																

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS PARTS LIST					QUANTITY VARIATION										
MADE BY <i>M. Passarelli</i>		CHECKED <i>BD Honey</i>		SECTION											
DATE <i>2 FEB 77</i>		DATE <i>28 MAR 77</i>		1											
ENG <i>R. Richmond</i>		PROD <i>M. Nilsen</i>		ISSUED SECT.											
DATE <i>28 MAR 77</i>		DATE <i>28 MAR 77</i>		1											
ITEM NO.	DWG NO./PART NO.	DESCRIPTION			LS120-HE	LS120-HF	LS120-HH	LS120-HJ							
45															
46															
47	E-PS-1212009-0-0	PRINT WINDOW			1	1	1	1							
48	A-PS-3613210-0-0	TAG, SERIAL NO.			1	1	1	1							
49	A-PS-3613211-0-0	DECAL, CSA			1	1	1	1							
50	A-PS-3613088-0-0	LABEL, ADHESIVE BACKED (RF1 SUPPRESSION)			1	1	1	1							
51	A-DC-7416197-0-1	UNDERWRITERS LABEL			1	1	1	1							
52	A-DC-7416178-0-0	DECAL, RIBBON CHANGING INSTRUCTIONS			1	1	1	1							
53	9008341	CLIP, HARNESS			5	5	5	5							
54	9009797	TAB, ADAPTER			2	2	2	2							
55	9009830	GROUND STRAP			2	2	2	2							
TITLE LS120 UNIT ASSY				ASSY NO. E-UA-LS120-0-0	SIZE A	CODE PL	NUMBER LS120-0-0			REV	ECO NO.				
				SHEET 3 OF 3	DIST										

DEC FORM
ORA 110

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS PARTS LIST					QUANTITY VARIATION																
MADE BY <i>M. Passarelli</i>		CHECKED <i>B.D. Hony</i>		SECTION	7013841-0	7013841-1	7013841-2	7013841-3													
DATE <i>2 FEB 77</i>		DATE <i>28 MAR 77</i>		1																	
ENG <i>D. Richmond</i>		PROD <i>M. Neuman</i>		ISSUED SECT.																	
DATE <i>28 MAR 77</i>		DATE <i>28 MAR 77</i>		1																	
ITEM NO.	DWG NO./PART NO.	DESCRIPTION																			
1	E-IA-7009649-0-0	FRAME ASSY			1	1	1	1													
2	E-IA-7411120-0-0	DOOR, CABINET			1	1	1	1													
3	9009685	LEVELING FOOT			4	4	4	4													
4	1211067-02	TUBING CLOSURE (BLACK)			4	4	4	4													
5	9009571-01	CATCH, DOOR LATCH			2	2	2	2													
6	9009571-00	CATCH, DOOR STRIKE			2	2	2	2													
7	D-CS-5411021-0-1	POWER BOARD (LA180)			1	1	1	1													
8	D-CS-5411023-0-1	LOGIC BOARD (LA180)			1	1	1	1													
9	E-UA-7014115-0-0	LOGIC BOARD (LS120)			1	1	1	1													
10	1010187	CAPACITOR 14000 uFD			2	2	2	2													
11	1010426	CAPACITOR 37000 uFD			1	1	1	1													
12	1011545	CAPACITOR 33000 uFD			1	1	1	1													
13	9009740	FUSE, 1.5 AMP SLO BLO			-	1	-	1													
14	B-AD-7009673-0-0	POWER CORD ASSY (120)			1	-	1	-													
15	C-AD-7011045-0-0	POWER CORD ASSY (230)			-	1	-	1													
16	1612256-00	TRANSFORMER ASSY (60 HZ)			1	-	-	1													
17	C-MD-7413216-0-0	PLATE, COVER			1	1	1	1													
18	9009768	STRAIN RELIEF			2	2	2	2													
19	9008509	STRAIN RELIEF			1	1	1	1													
20	D-AD-7009895-0-0	HARNESS, CAPACITOR			1	1	1	1													
21	C-AD-7010001-8-0	JUMPER			1	1	1	1													
22	1212581-02	FAN ASSY			1	1	1	1													
TITLE CABINET ASSY W/POWER SUPPLY				ASSY NO. E-AD-7013841-0-0	SIZE A	CODE PL	NUMBER 7013841-0-0				REV	ECO NO.									
				SHEET 1 OF 5	DIST																

DEC FORM
DRA 110

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS PARTS LIST					QUANTITY VARIATION																	
MADE BY <i>M. Passarelli</i>		CHECKED <i>B.D. Hony</i>		SECTION	7013841-0	7013841-1	7013841-2	7013841-3														
DATE <i>2 FEB 77</i>		DATE <i>28 MAR 77</i>		1																		
ENG <i>D. Richmond</i>		PROD <i>M. Neuman</i>		ISSUED SECT.																		
DATE <i>28 MAR 77</i>		DATE <i>28 MAR 77</i>		1																		
ITEM NO.	DWG NO./PART NO.	DESCRIPTION																				
23	D-IA-7010964-2-0	AC HARNESS (115V)			1	-	1	-														
24	9006037-3	SCR, PHL TRUSS HD #8-32 X.38			4	4	4	4														
25	9006037-1	SCR, PHL PAN HD #8-32 x .38			15	15	15	15														
26	B-MD-7417011-0-0	CLIP ENCLOSURE			2	2	2	2														
27	9009718-4	GROMMET			1	1	1	1														
28	9007651	WASHER, LOCK EXT TOOTH #12			2	2	2	2														
29	9006690	WASHER, SPLIT LOCK #8			28	28	28	28														
30	C-IA-7010001-14-0	CABLE, PAPER OUT			1	1	1	1														
31	9006660	WASHER, FLAT #8			22	22	22	22														
32	9009350	TIE WRAP			8	8	8	8														
33	1211638	FUSE HOLDER			1	1	1	1														
34	1210299	SPEAKER 2.5 IN.			1	1	1	1														
35	C-MD-7412996-0-0	BRACKET, SPEAKER			1	1	1	1														
36	A-DC-7412548-0-0	FUSE RATING LABEL			1	1	1	1														
37	9107253-09	SHRINK TUBING			A/R	A/R	A/R	A/R														
38	9006990	GROUND STRAP			2	2	2	2														
39	9006563	NUT, KEPS #8-32			4	4	4	4														
40	1212877	FILTER EMI			1	1	1	1														
41	9008151	WASHER, EXT TOOTH LOCK #8			7	7	7	7														
42	C-MD-7413286-0-0	COVER, EMI FILTER			1	1	1	1														
43	C-AD-7010001-12-0	JUMPER			1	1	1	1														
44	A-DC-7415773-0-0	FUSE DECAL			1	1	1	1														
TITLE CABINET ASSY W/POWER SUPPLY				ASSY NO. E-AD-7013841-0-0	SIZE A	CODE PL	NUMBER 7013841-0-0				REV	ECO NO.										
				SHEET 2 OF 5	DIST																	

DEC FORM
DRA 110

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS PARTS LIST					QUANTITY VARIATION																
MADE BY <i>M. Pascarelli</i>		CHECKED <i>B.D. Harty</i>		SECTION	7013841-0	7013841-1	7013841-2	7013841-3													
DATE <i>2 FEB 77</i>		DATE <i>28 MAR 77</i>		1																	
ENG <i>D. Richmond</i>		PROD <i>M. Wilson</i>		ISSUED SECT.																	
DATE <i>28 MAR 77</i>		DATE <i>28 MAR 77</i>		1																	
ITEM NO.	DWG NO./PART NO.	DESCRIPTION																			
45	D-IA-7412158-0-0	PAPER GUIDE			1	1	1	1													
46	9009718	GROMMET			2	2	2	2													
47	B-MD-7414144-0-0	FOAM, PROTECTIVE			2	2	2	2													
48	C-MD-7412424-0-0	SWITCH REWORK			1	1	1	1													
49	9009285	SPACER, #8 HOLE x 1.00 LG.			2	2	2	2													
50	1612257-00	TRANSFORMER ASSY (50 HZ)			-	1	1	-													
51	9007218	FUSE, 3 AMP SLO BLO			2	1	2	1													
52	9009718-02	GROMMET			2	2	2	2													
53	9009718-03	GROMMET			2	2	2	2													
54	9008292	WASHER, INT TOOTH $\frac{1}{2}$			2	2	2	2													
55	9007018	GROMMET			1	1	1	1													
56	9008340	CLIP, HARNESS			1	1	1	1													
57	9006561	NUT, HEX #8-32			4	4	4	4													
58	3612680	DECAL, GND SYMBOL			4	4	4	4													
59	B-MD-7415068-0-0	PIVOT, CABINET DOOR			2	2	2	2													
60	9009773	"E" RING, EXT. SER.			2	2	2	2													
61	9009871	"O" RING			2	2	2	2													
62	B-MD-7415067-0-0	SCR, SPECIAL			2	2	2	2													
63	9006881	SPACER, ALUM. $\frac{3}{8}$ x 3" x 10.32			3	3	3	3													
64	C-MD-7415114-0-0	COVER, CAPACITOR			1	1	1	1													
65	9006071-1	SCR, PHL PAN HD #10-32 x .38 LG			6	6	6	6													
66	9007906	WASHER, SPLIT LOCK #10			9	9	9	9													
TITLE CABINET ASSY W/POWER SUPPLY				ASSY NO. E-AD-7013841-0-0	SIZE A	CODE PL	NUMBER 7013841-0-0				REV	ECO NO.									
				SHEET 3 OF 5	DIST																

DEC FORM
DRA 110

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS PARTS LIST					QUANTITY VARIATION																
MADE BY <i>M. Pascarelli</i>		CHECKED <i>B.D. Harty</i>		SECTION	7013841-0	7013841-1	7013841-2	7013841-3													
DATE <i>2 FEB 77</i>		DATE <i>28 MAR 77</i>		1																	
ENG <i>D. Richmond</i>		PROD <i>M. Wilson</i>		ISSUED SECT.																	
DATE <i>28 MAR 77</i>		DATE <i>28 MAR 77</i>		1																	
ITEM NO.	DWG NO./PART NO.	DESCRIPTION																			
67	9006664	WASHER, FLAT #10			9	9	9	9													
68	1212893	FUSE HOLDER			1	1	1	1													
69	B-MD-7415374-0-0	SPACER, FUSE HOLDER			1	1	1	1													
70	9006565	NUT, KEPS #10-32			1	1	1	1													
71	9006074 -01	SCR, PHL PAN HD #10-32 x .62 LG			4	4	4	4													
72	9006306-10	SCR, SOCKET SET HEX #8-32			2	2	2	2													
73	9008033-01	SCR, PHL, PAN HD #4-40 x .562 LG			2	2	2	2													
74	9006557	NUT, KEPS #4-40			2	2	2	2													
75	9006039	SCR, PHL, PAN HD #8-32 x .50 LG			2	2	2	2													
76	C-IA-7410963-0-0	HARNESS SEC TRANSFORMER			1	1	1	1													
77	9006022-1	SCR, PHL PAN HD #6-32 x .38 LG			4	4	4	4													
78	9006036 -1	SCR, PHL PAN HD #8-32 x .31			6	6	6	6													
79	9007084	CABLE CLAMP			1	1	1	1													
80	D-MD-7414044-0-0	SIDE RAIL (L.H.)			1	1	1	1													
81	D-MD-7414045-0-0	SIDE RAIL (R.H.)			1	1	1	1													
82	9009151	$\frac{1}{2}$ TURN RECEPTACLES			2	2	2	2													
83	9007017	GROMMET			4	4	4	4													
84	9007649	WASHER, EXT. TOOTH LOCK #6			4	4	4	4													
85	9006653	WASHER FLAT #6			4	4	4	4													
86	9006560	NUT KEPS #6-32			2	2	2	2													
87	9008200	RETAINER			2	2	2	2													
88	9009146	WASHER, NYLON			2	2	2	2													
TITLE CABINET ASSY W/POWER SUPPLY				ASSY NO. E-AD-7013841-0-0	SIZE A	CODE PL	NUMBER 7013841-0-0				REV	ECO NO.									

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS				QUANTITY VARIATION																
PARTS LIST				7013841-0	7013841-1	7013841-2	7013841-3													
MADE BY <i>M. Passarelli</i>		CHECKED <i>Bill Harvey</i>		SECTION																
DATE <i>2 FEB 77</i>		DATE <i>28 MAR 77</i>		1																
ENG <i>D. Richmond</i>		PROD <i>M. Dulaev</i>		ISSUED SECT.																
DATE <i>20 MAR 77</i>		DATE <i>28 MAR 77</i>		1																
ITEM NO.	DWG NO./PART NO.	DESCRIPTION																		
89	9008343	1/2 TURN FASTENER		2	2	2	2													
90	9006020-1	SCR, PHL PAN HD #6-32 X 1		2	2	2	2													
91	C-AD-7010001-15-0	JUMPER		1	1	1	1													
92	BC05C-09	EIA INTERFACE CABLE		1	1	1	1													
93	BC05L-0C	CABLE, JUMPER		1	1	1	1													
94	D-IA-7010964-3-0	AC HARNESS (230V)		-	1	-	1													
95	E-IA-7013916-0-0	CONTROL HARNESS		1	1	1	1													
96	C-IA-7414041-0-0	BRACKET, HINGE (R.H.)		1	1	1	1													
97	C-IA-7414041-1-0	BRACKET, HINGE (L.H.)		1	1	1	1													
98	7010001-5-0	JUMPER, GROUNDING		1	1	1	1													
99	9006636	WASHER, LOCK INT TOOTH #12		16	16	16	16													
100	9006070-1	SCR, PHL PAN HD #10-32 X.31		8	8	8	8													
101	9008341	CLIP, HARNESS		1	1	1	1													
TITLE				ASSY NO.				SIZE		CODE		NUMBER				REV		ECO NO.		
CABINET ASSY W/POWER SUPPLY				E-AD-7013841-0-0				A PL		7013841-0-0										
SHEET 5 OF 5				DIST																

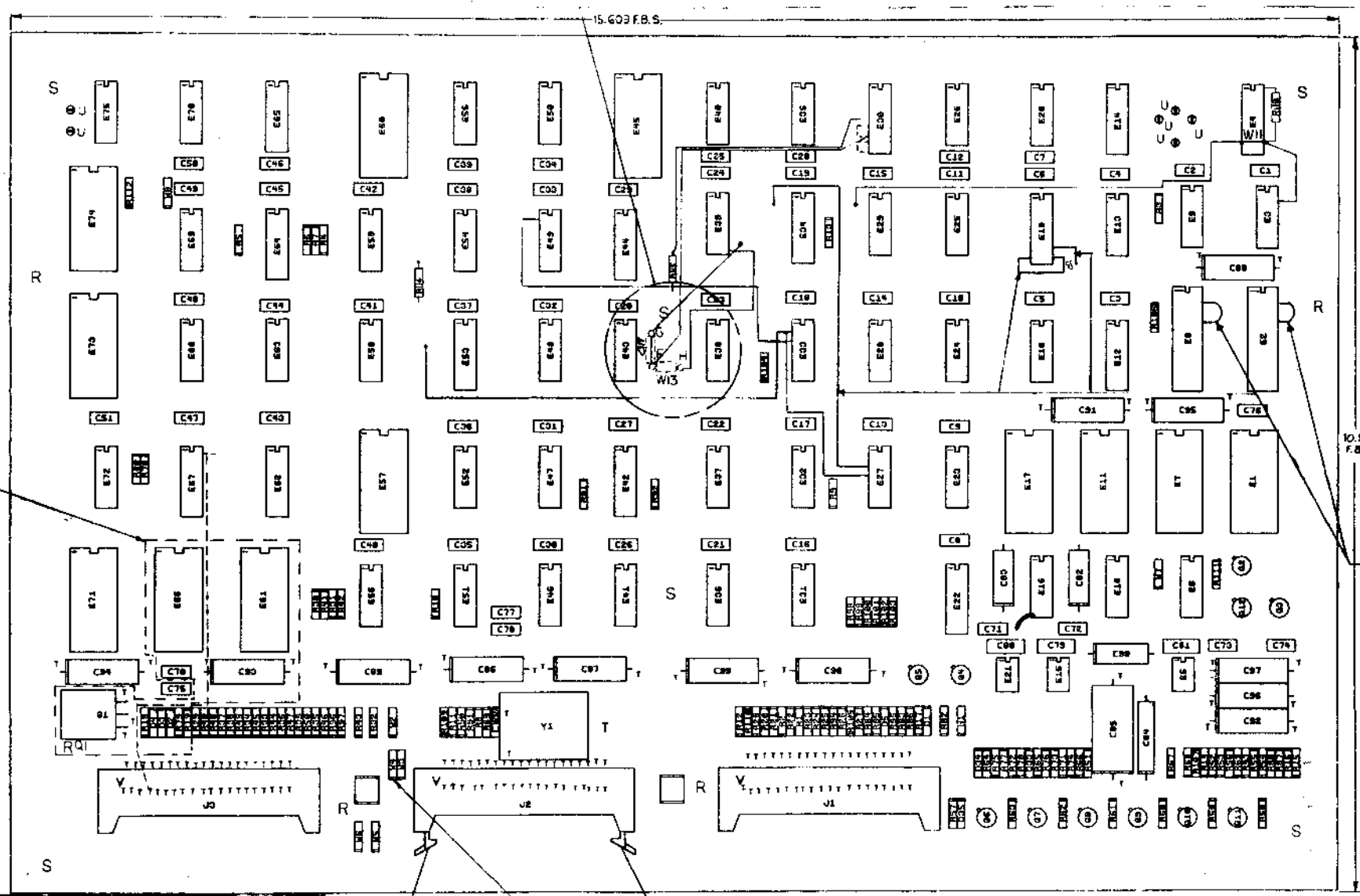
DEC FORM
DRA 110

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NOTES: SEE DETAIL A

1-0-2201149 SCS 5411023-0-1 2

- 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 CR 1200 BAUD CLOCK TO J3.



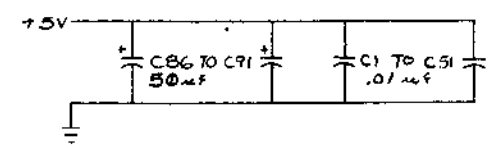
SEE NOTE 3

SEE NOTE 2

2G11 1P	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

GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPT WHERE STATED ABOVE
 IC PIN LOCATIONS

88 TYP 3PLACES SEE NOTE 4 89 TYP 3PLACES



DETAIL A SCALE: NONE

5411023-00001	S	1	16, 24
5411023-00002	P	1	
5411023-00003	N	1	
5411023-00004	M	1	
5411023-00005	K	1	
5411023-00006	L	1	
5411023-00007	J	1	
5411023-00008	I	1	
5411023-00009	H	1	
5411023-00010	G	1	
5411023-00011	F	1	
5411023-00012	E	1	
5411023-00013	D	1	
5411023-00014	C	1	
5411023-00015	B	1	
5411023-00016	A	1	

SEE SHEET 2

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.

ETCH BOARD REV. E

DRN. J. Eschert	DATE 3/11/75
CHK'D. J. Eschert	DATE 3/11/75
ENG. J. Eschert	DATE 3/11/75
PROJ. ENG. J. Eschert	DATE 3/11/75
PROD. J. Eschert	DATE 3/11/75
NEXT HIGHER ASSY	

digital

TITLE LA 180 LOGIC BOARD

SIZE CODE	NUMBER	REV.
DCS	5411023-0-1	1.3

SEMICONDUCTOR CONVERSION CHART

DEC NO.	EIA NO.	DEC NO.	EIA NO.

SHEET 1 OF 9

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PARTS LIST

QTY	REF DESIGNATION	DESCRIPTION	PART NO	ITEM NO
REF		X-Y COORDINATE HOLE LOCATION	KCO-5411023-3-4	1
REF		ASSY/DRILLING HOLE LAYOUT	E-44-5411023-0-5	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 .68uF 50V 10%	1010031-06	6
2	C82, C83	CAP .047uF 100V 10%	1000051-00	7
6	C92, C94-97, C99	CAP 25uF 25V 10%	1000075-00	8
57	C1-C51, C71-C76	CAP .01uF 50V	1001610-00	9
1	C84	CAP 1uF 100V 10%	1002342-00	10
2	C77, C78	CAP .005uF 100V 20%	1001765-00	11
6	C86-C91	CAP 50uF 25V 10%	1001796-00	12
2	D1, D35	DIODE D664	1100114-00	13
2	D33, D34	DIODE 1N748A 3.9V 5%	1100122-00	14
2	D5, D8	DIODE 6A51 REF	1105873-00	15
1	D5	DIODE D662	1100115-00	16
3	J1, J2, J3	CONN 40 PIN	1209941-02	17
2	E1, E2	SOCKET IC 24 PIN	1210693-00	18
1	E86	RES 51K 1/4W 5%	1309422-00	19
15	R30-R39, R42, R43, R45, R46, R47	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, R48, R49, R49, R49, R49	RES 330 1/4W 5%	1300295-00	25
2	R84, R85	RES 470 1/4W 5%	1300316-00	26
25	R1-R11, R13-R17, R22, R28, R29, R34, R40, R46, R49, R49, R49	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 56K 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	R51	RES 11.5K 1/8W 1%	1302860-00	32
2	R72, R73	RES 820K 1/4W 10%	1303187-00	33
2	R62, R63	RES 3.61K 1/4W 1%	1303303-00	34
2	R76, R77	RES 5.11K 1/4W 1%	1304854-00	35
				36
2	R74, R75	RES 619 1/4W 1%	1305126-00	37
1	R58	RES 31.6K 1/8W 1%	1305419-00	38
2	R52, R54	RES 232K 1/8W 1%	1305424-00	39
6	R64-R69	RES 2K 1/4W 5%	1302338-00	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 MPS405 NPN	1510705-00	44
1	Q1	TRANS 1053A 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	IC 7474	1905547-00	47
4	E24, E48, E49, E52	IC 7400	1905575-00	48
1	E28	IC 7410	1905576-00	49
1	E70	IC 7450	1905577-00	50
1	E67	IC 7451	1905590-00	51
2	E37, E40	IC 7493A	1909054-00	52

PARTS LIST

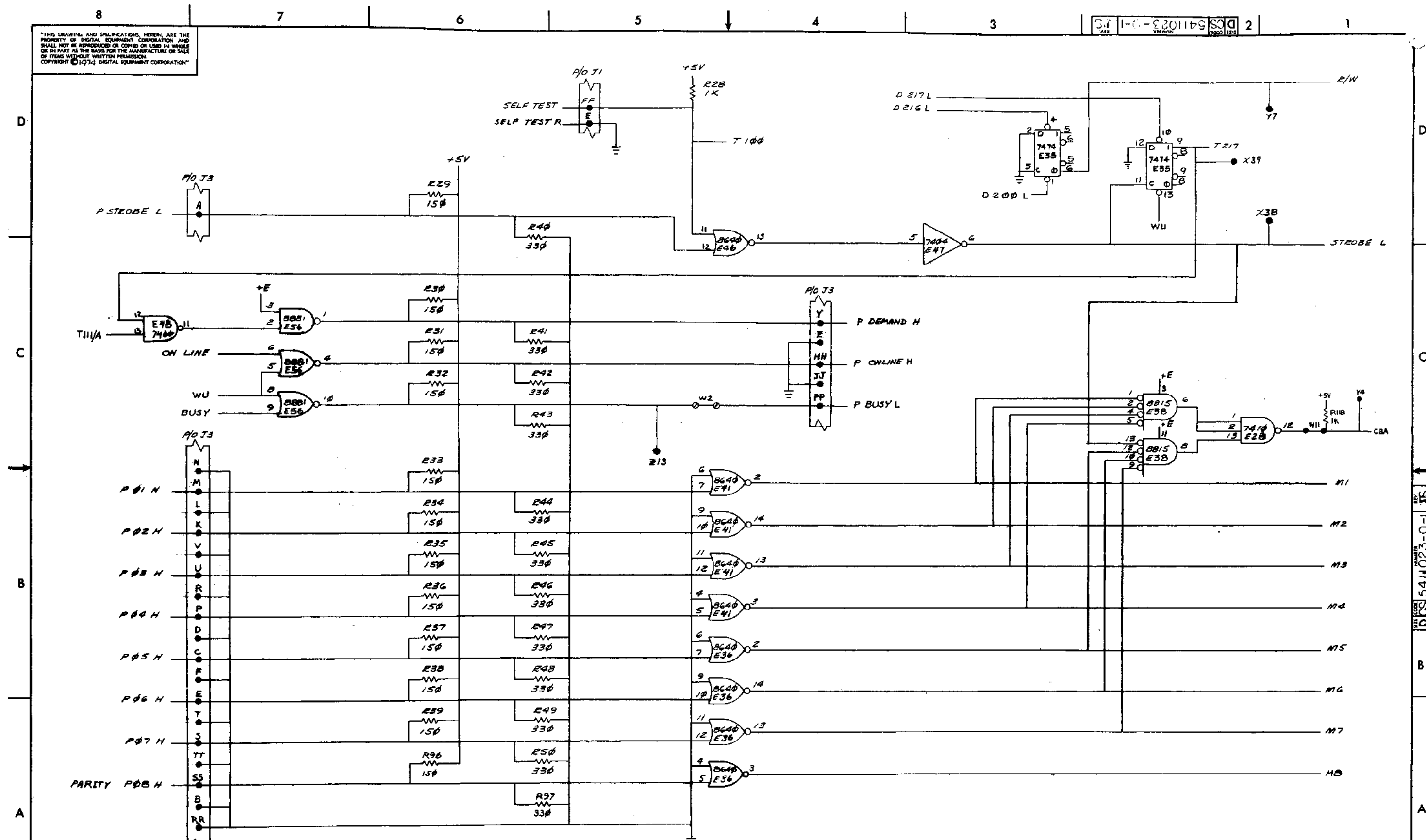
QTY	REF DESIGNATION	DESCRIPTION	PART NO	ITEM NO
3	E36, E41, E46	IC 8640	1911469-00	53
6	E31, E33, E47, E72, E75, E27	IC 7404	1909686-00	54
3	E45, E60, E73	IC 74154	1909701-00	55
1	E16	IC 7413	1909989-00	56
5	E12, E14, E62, E64, E67	IC 74193	1910018-00	57
1	E53	IC 7442	1910046-00	58
1	E19	IC 74190	1910095-00	59
2	E56, E30	IC 8881	1909705-00	60
2	E57, E74	IC 74150	1910153-00	61
3	E5, E15, E21	IC LM301A	1910282-00	62
1	E65	IC 7489	1910396-00	63
1	E42	IC 74123	1910436-00	64
2	E34, E44	IC 74161	1910650-00	65
1	E22	IC 74175	1910651-00	66
2	E2, E8	IC 2101-2	2112323-00	67
2	E4, E88	IC 102A PROMS	2300480-00	68
1	E38	IC 8815	1909713-00	69
4	E3, E9, E32, E37	IC 74197	1910035-00	70
4	E43, E57, E63, E68	IC 7408	1910155-00	71
1	E1	IC MK2626 (UNSLASHED O)	2307146-00	72
1	E7	IC MK2627 (ALPHA SET)	2307046-00	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		EYLETS	9009000	78
9	R9B-R104, R109, R107	RES 47K 1/4W 5%	1302177	79
1	E58	IC 7414	1911324	80
1	E13	IC 74180	1910724	81
1	E10	IC 9601	1909373	82
1	E6	IC 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	2308846	90

REVISIONS		
CHK	CHANGE NO	REV

TITLE	LA180 LOGIC BOARD	SIZE CODE	DCS 5411023-0-1	NUMBER	S	REV.	
SCALE		SHEET	2	OF	9	DIST.	

DCS 5411023-0-1 S

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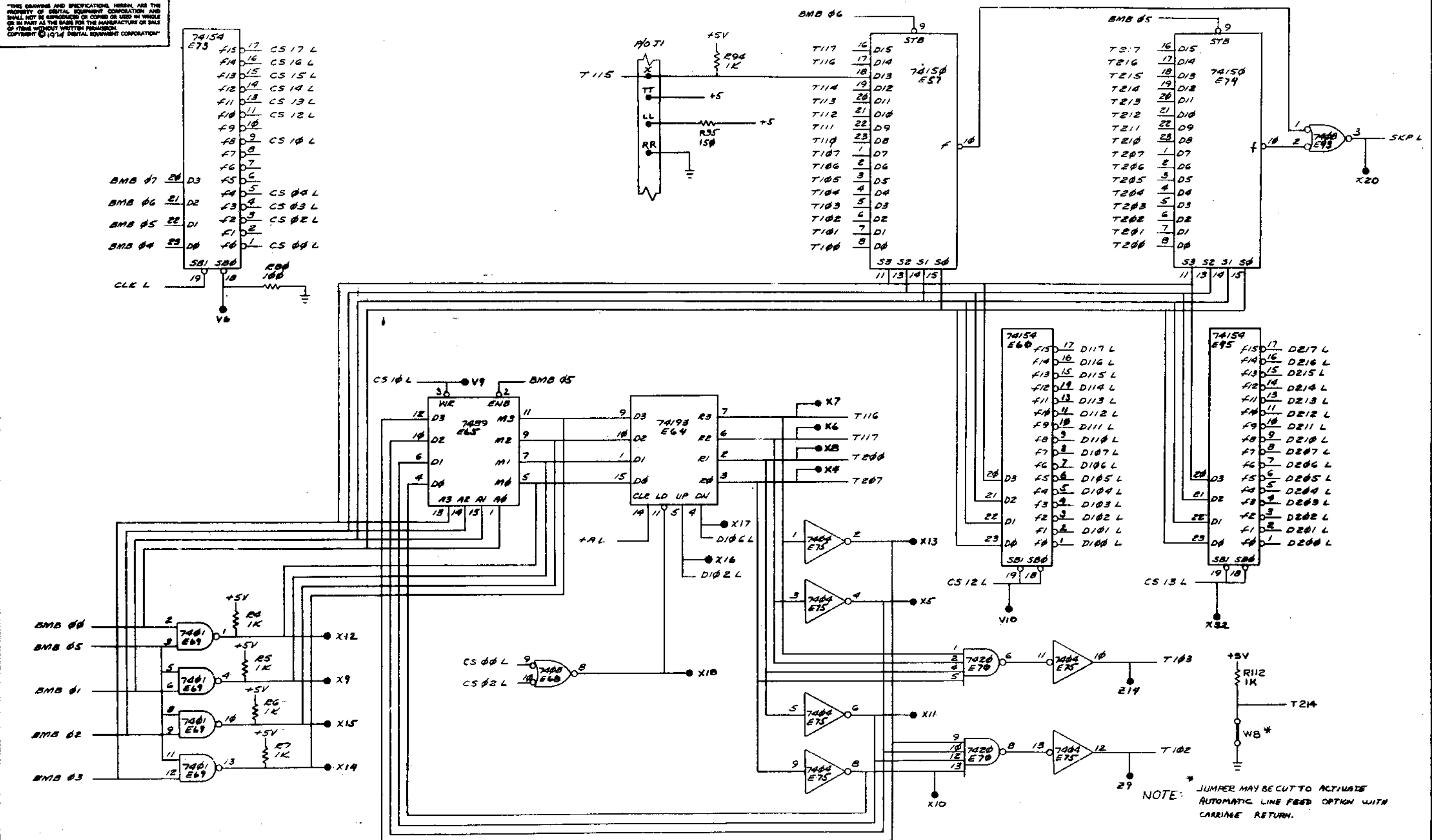
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	LA180 LOGIC BOARD	SIZE CODE	D CS	NUMBER	5411023-0-1	REV.	1S
SCALE		SHEET	3	OF	9	DIST.	

CS 5411023-0-1 15

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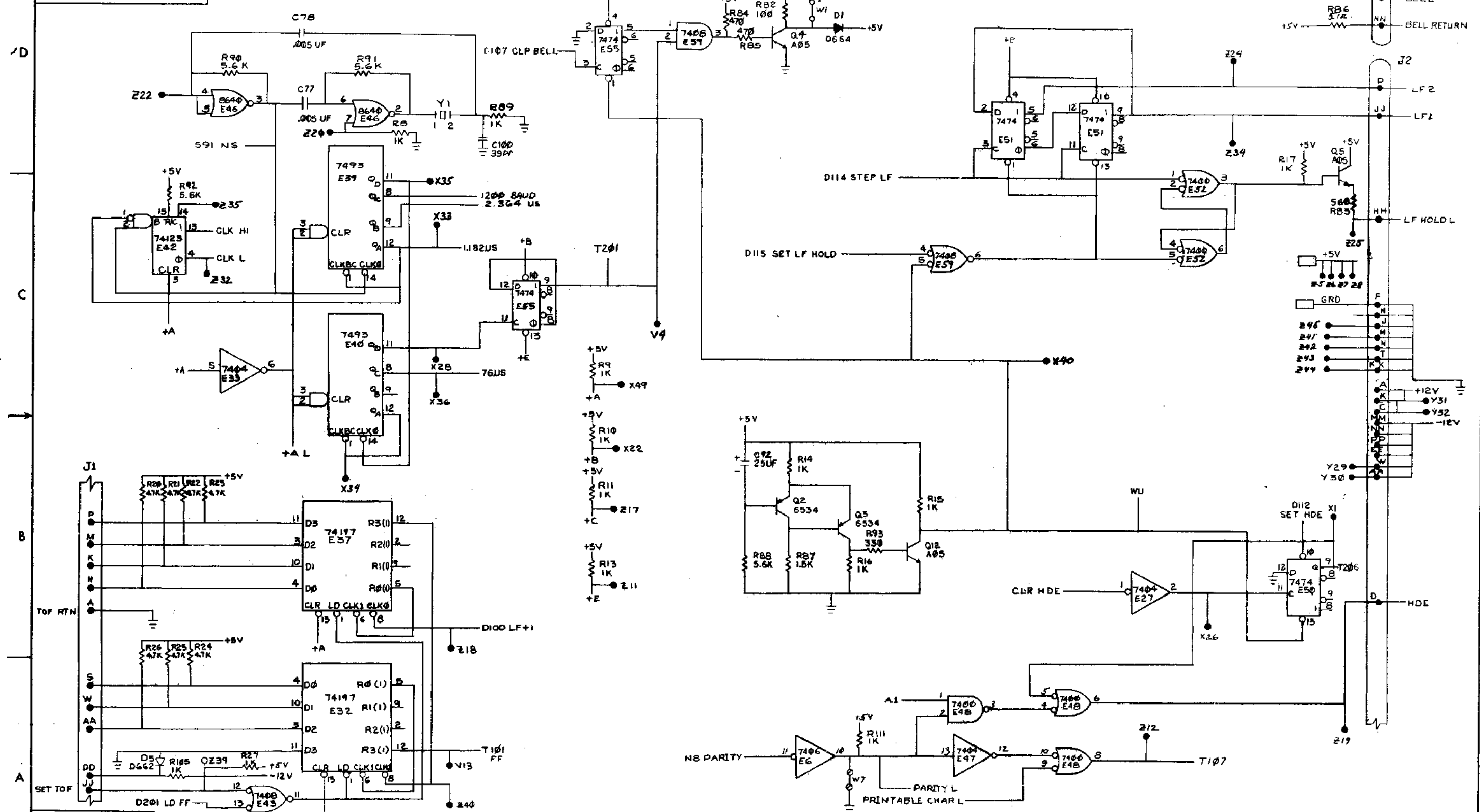
D
C
B
A



REVISIONS		
CHK	CHANGE NO.	REV.

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

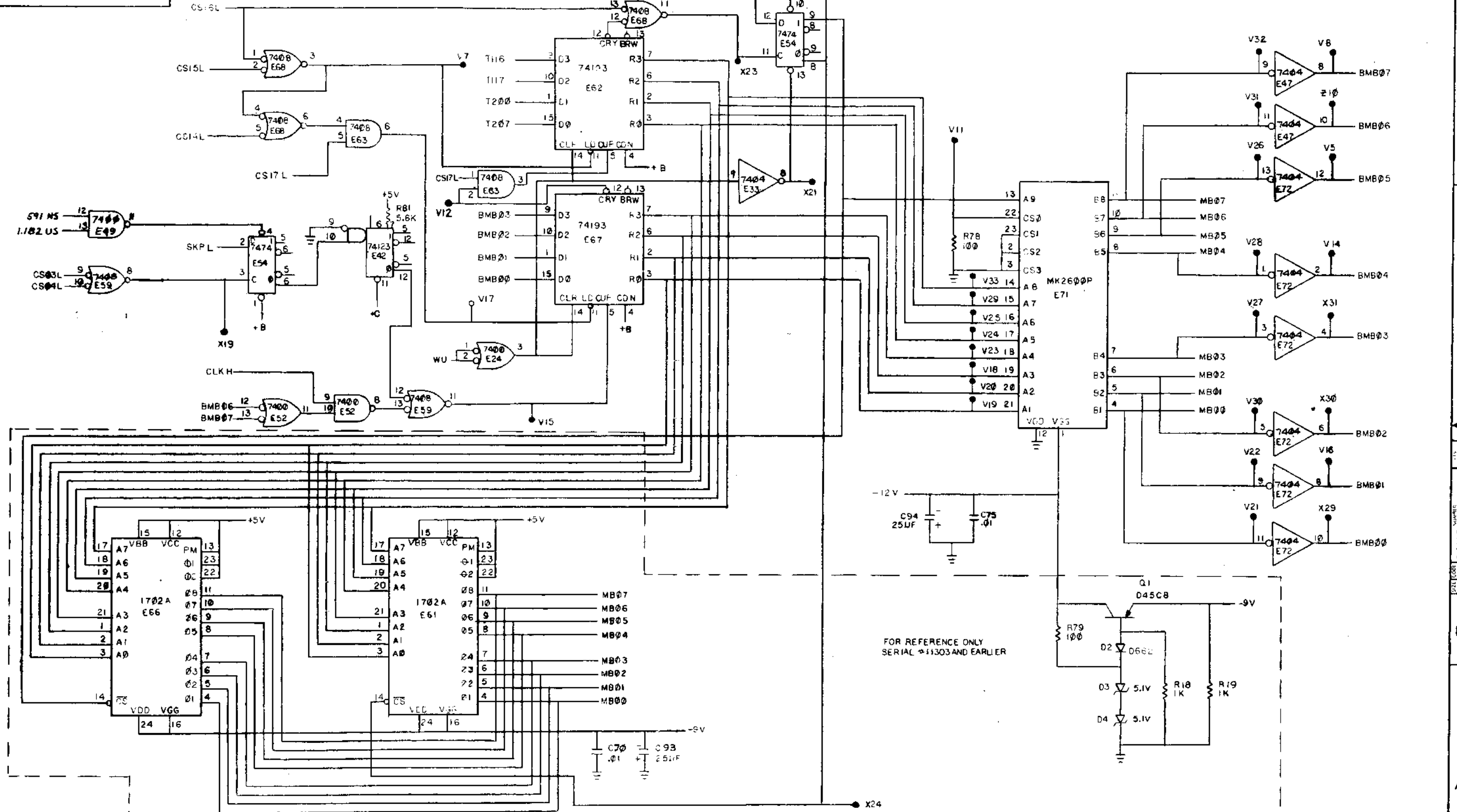


REVISIONS

CHK	CHANGE NO	REV.

TITLE: LA180 LOGIC BOARD
SIZE CODE: DCS 5411023-0-1
NUMBER: 9
SHEET 5 OF 9

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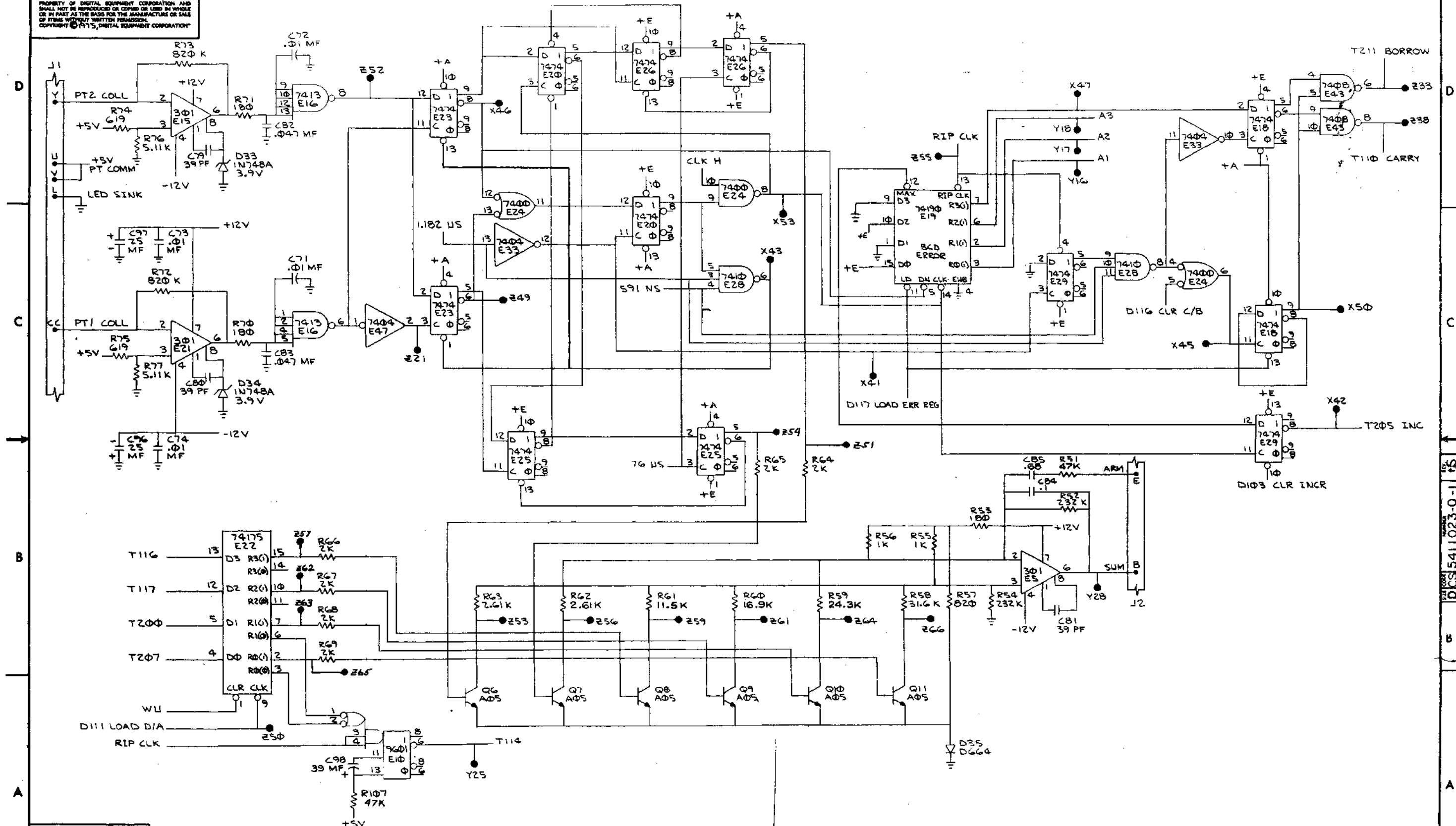


REVISIONS		
CHK	CHANGE NO.	REV

TITLE LA180 LOGIC BOARD
 NUMBER DCS5411023-0-1
 SHEET 6 OF 9
 SCALE / /

DCS 5411023-0-1

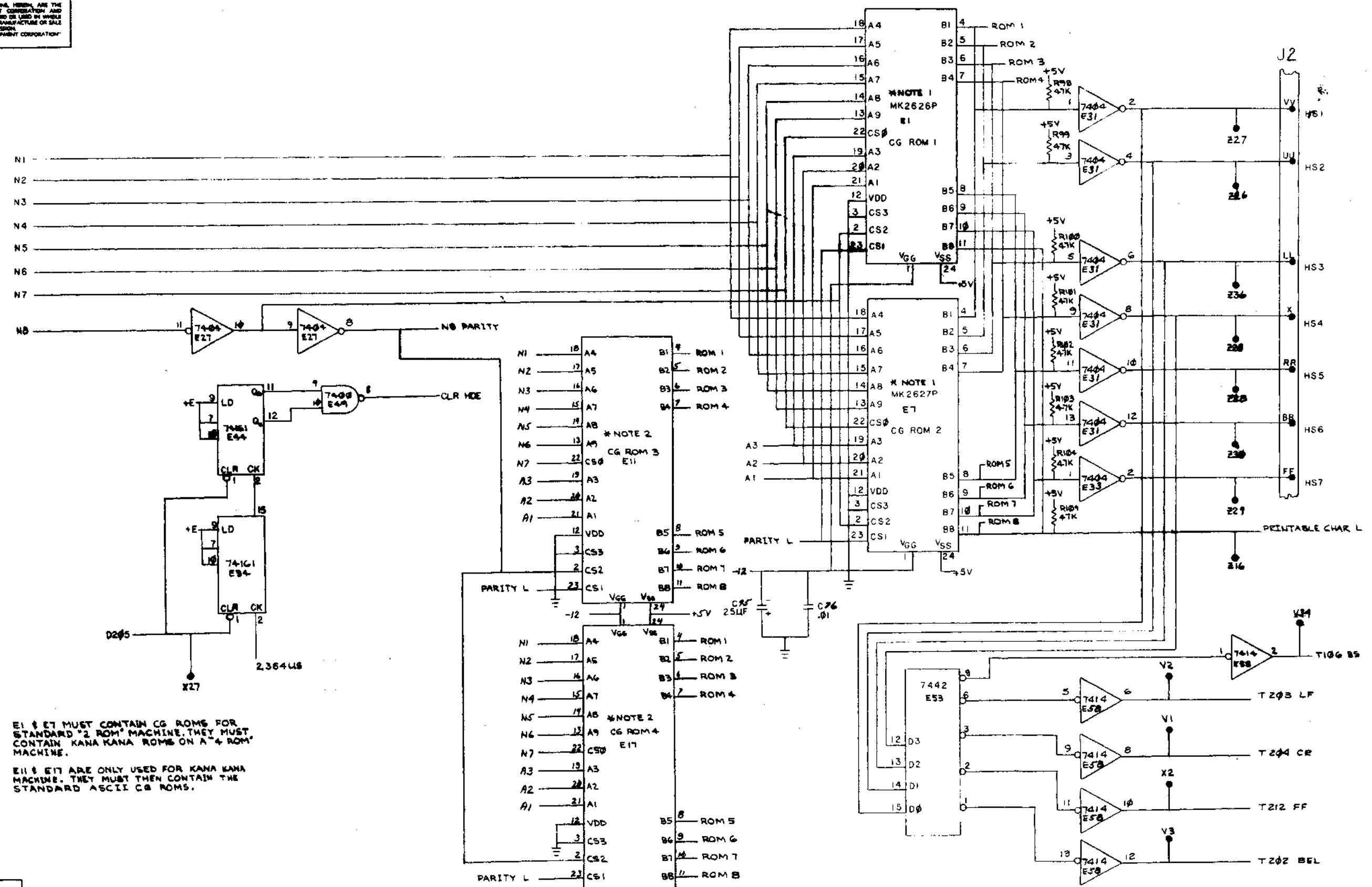
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REVISIONS		
CHK	CHANGE NO.	REV.

DCS 5411023-0-1 15

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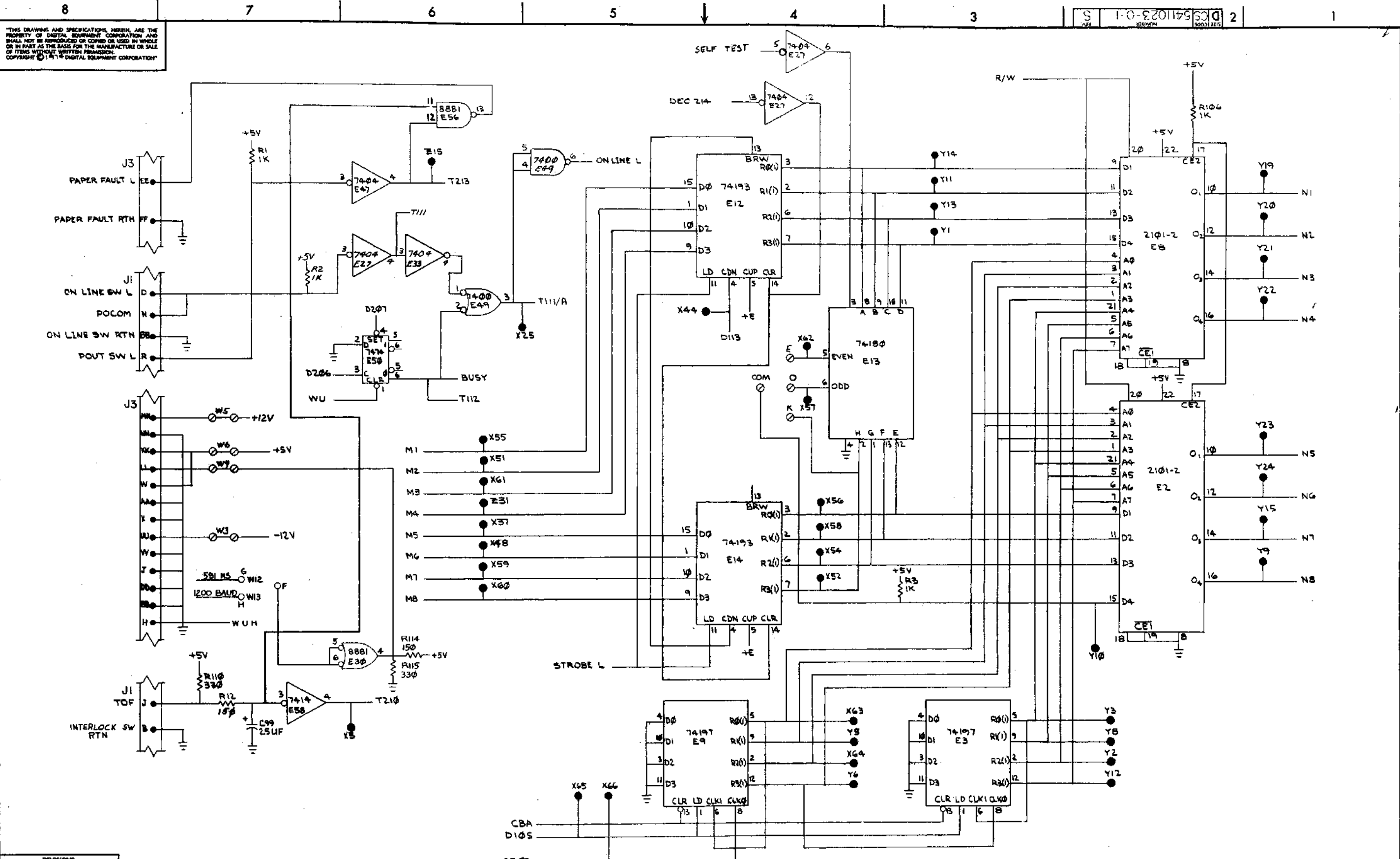
* NOTE 1 E1 & E7 MUST CONTAIN CG ROMS FOR STANDARD "2 ROM" MACHINE. THEY MUST CONTAIN KANA KANA ROMS ON A "4 ROM" MACHINE.

* 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

D/CS5411023-0-1

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REVISIONS		
CHK	CHANGE NO.	REV.

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

NUMBER
 CS 5411023-0-1
 REV: S

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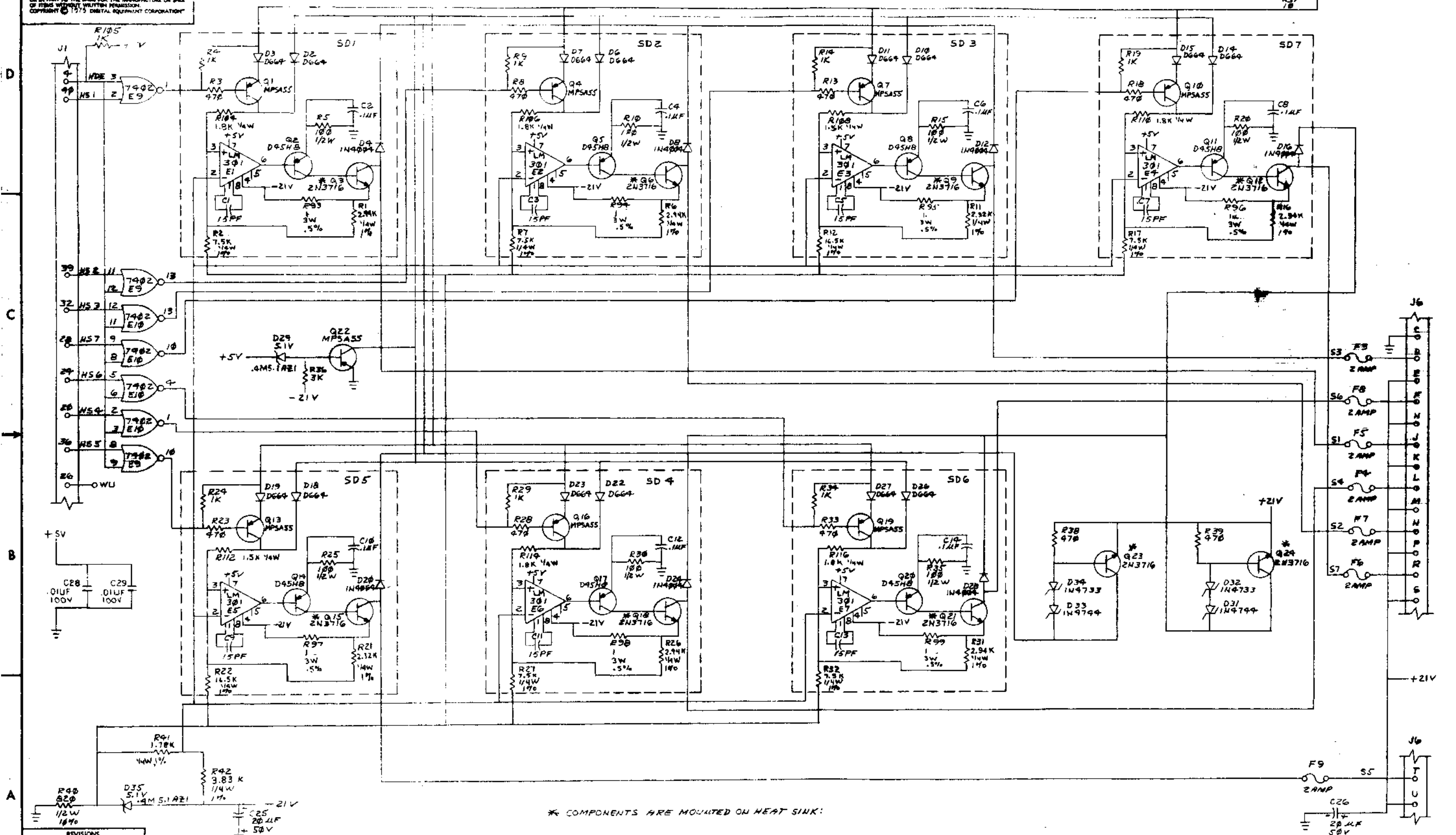
PARTS LIST				
QTY	REF DESIGNATIONS	DESCRIPTION	PART NO	ITEM NO
REF		X-Y COORDINATE HOLE LOCATION	KCO-5411021-0-9	1
REF		ASSY/DRILLING HOLE LAYOUT	EAM-5411021-0-5	2
REF		MODULE ECO HISTORY	B-MA-5411021-0-6	3
1		ETCHED CIRCUIT BOARD	5011020	4
3	C18, C21, C22	CAP 25MF, 25V, 10% +75% AL EL.	1000075-00	5
6	C16, C17, C28, C23-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.	1009933-00	8
2	C25, C26	CAP 20UF, 50V, 10% +75% AL EL.	1002839-00	9
1	C24	CAP 1.5MF, 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, C6, C8, 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, D18, D15, D18, D19, D26, D27, D22, D23, D28, D10, D41, D39, D52, D61, D58, D62	DIODE D664	1100114-00	14
2	D31, D33	DIODE IN4794	1105648-00	15
13	D4, D8, D12, D16, D20, D28, D46, D47, D44, D45, D50, D51, D24	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 5.1V, 1% ZENER	1105873-00	19
2	D32, D34	DIODE IN4733	1110488-00	20
1	D30	DIODE IN748A	1100122-00	21
2	D42, D48	DIODE IN748A	1100122-00	22
4		KEYING PLUG, MATE-N-LOK	1211595-00	23
4	J2, J3, J4, J5	CONN MATE-N-LOK 8 SKT	1209340-00	25
28		SOCKET PC, MATE-N-LOK	1209456-01	26
2	R52, R60	RES 2K, 1/4W, 5%	1302388-00	27
1	R47	RES 39, 1/2W, 5%	1302336-00	28
7	R93 THRU R99	RES 1, 3W, 5% W.W.	1312547-00	29
4	R100 THRU R103	RES 4, 5W, 5% W.W.	1311624-00	30
1	R67	RES 100, 1/4W, 5%	1300229-00	31
1	R76	RES 18, 1/4W, 5%	1302124-00	32
2	R73, R74	RES 100, 10W, 5% W.W.	1310597-00	33
7	R5, R10, R15, R20, R25, R30, R35	RES 100, 1/2W, 5%	1300228-00	34
5	R44, R58, R92, R108, R112	RES 1.5K, 1/4W, 5%	1300391-00	35
1	R84	RES 220, 1/4W, 5%	1300271-00	36
2	R56, R64	RES 150, 2W, 5% W.W.	1305524-00	37
2	R55, R63	RES 150, 5W, 5% W.W.	1301898-00	38
1	R83	RES 270, 1/4W, 5%	1301972-00	39
1	R50	RES 390, 2W, 5%	1301864-00	40
1	R75	RES 270, 2W, 10%	1300288-00	41
1	R82	RES 300, 2W, 5%	1309855-00	42
2	R78, R81	RES 390, 1/4W, 5%	1300309-00	43
1	R79	RES 470, 2W, 5%	1303062-00	44
2	R85, R86	RES 150, 1/4W, 5%	1300250-00	45
2	R51, R59	RES 300, 1/2W, 5%	1300291-00	46
9	R43, R4, R9, R14, R14, R24, R29, R34, R105	RES 1K, 1/4W, 5%	1300365-00	47

PARTS LIST				
QTY	REF DESIGNATIONS	DESCRIPTION	PART NO	ITEM NO
2	R45, R48	RES 560, 1W, 5%	1303048-00	48
3	R77, R80, R91	RES 3.9K, 1/4W, 5%	1300444-00	49
2	R90, R97	RES 4.7K, 1/4W, 5%	1300447-00	50
3	R53, R61, R66	RES 10K, 1/4W, 5%	1300479-00	51
2	R88, R89	RES 4.64, 1/4W, 1%	1303047-00	52
2	R87, R90	RES 619, 1/4W, 1%	1305126-00	53
15	R3, R8, R13, R18, R23, R33, R38, R28, R39, R46, R49, R54, R57, R5, R65	RES 470, 1/4W, 5%	1300316-00	54
1	R40	RES 820, 1/2W, 10%	1300356-00	55
1	R36	RES 3K, 1/4W, 5%	1300432-00	56
5	R2, R7, R17, R27, R32	RES 75K, 1/4W, 1%	1305322-00	57
1	R41	RES 1.8K, 1/4W, 1%	1302612-00	58
5	R1, R6, R16, R26, R31	RES 2.94K, 1/4W, 1%	1301981-00	59
1	R42	RES 3.83K, 1/4W, 1%	1309413-00	60
2	R11, R21	RES 2.32K, 1/4W, 1%	1312545-00	61
9	Q3, Q6, Q9, Q12, Q15, Q18, Q23, Q24, Q21	TRANS 2N3716	1503069-00	62
2	Q42, Q43	TRANS 3715	1503068-00	63
1	Q51	TRANS 2N3791	1509581-00	64
2	Q38, Q39	TRANS 65318	1509330-00	65
6	Q26, Q36, Q39, Q47, Q48, Q33	TRANS MPS A05	1510705-00	66
13	Q37, Q35, Q14, Q7, Q10, Q13, Q16, Q19, Q27, Q22, Q37, Q46	TRANS MPS A55	1510706-00	67
5	Q41, Q28, Q30, Q49, Q32	TRANS TIP31A	1512590-00	68
4	Q40, Q29, Q31, Q50	TRANS TIP32A	1512589-00	69
7	Q2, Q5, Q8, Q11, Q4, Q7, Q20	TRANS D95HB	1510708-00	70
2	E9, E10	IC 7402	1909004-00	71
1	EB	IC LM309K REGULATOR	1910460-00	72
7	E1 THRU E7	IC LM301A OP AMP	1910282-00	73
1	J6	H802 18 PIN (MODIFIED)	5310831-00	74
2		RIVET, POP	9006960-00	75
1		HEAT SINK	7413424-00	76
4		FUSE CLIP	9009513-01	77
8		WASHER (MATE-N-LOK STANDOFF)	9006693-00	78
8		EYELET	9006732-00	79
2	F1, F2	FUSE 3 AMP SLO BLO	9007218-00	80
2		FASTON TAB	9007113-00	81
2		EYELET	9009000-00	82
26		SCREW PPH 4-40 X 1/2	9006013-01	83
35		NUT, KEP 4-40	9006557-00	84
1		SCREW, PPH 6-32 X 15/16	9007838-01	85
1		NUT, KEP 6-32	9006560-00	86
1		CABLE, POWER BOARD	2AD-7010363-1	87
13		INSULATOR, TD-3	9006721-00	88
9		INSULATOR	9009597-00	89
9		COMPOUND, THERMAL JOINT	9008268-00	90
9		SCREW PPH 4-40 X 7/16	9006012-01	91
7	F3 THRU F9	FUSE, PICO, 2 AMP	1211751-00	92
1		LABEL	3611567-00	93
5	R104, R106, R110, R114, R116	RES 1.8K, 1/4W, 5%	1300398-00	94
2	R12, R22	RES 16.5K, 1/4W, 1%	1312546-00	95
14	WIRE	WIRE, AWG 14, GREEN	9107370-55	96
2	R70, R71	RES. 60, 10W, 5%	1312997	97

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

REVISIONS		
CHK	CHANGE NO	REV

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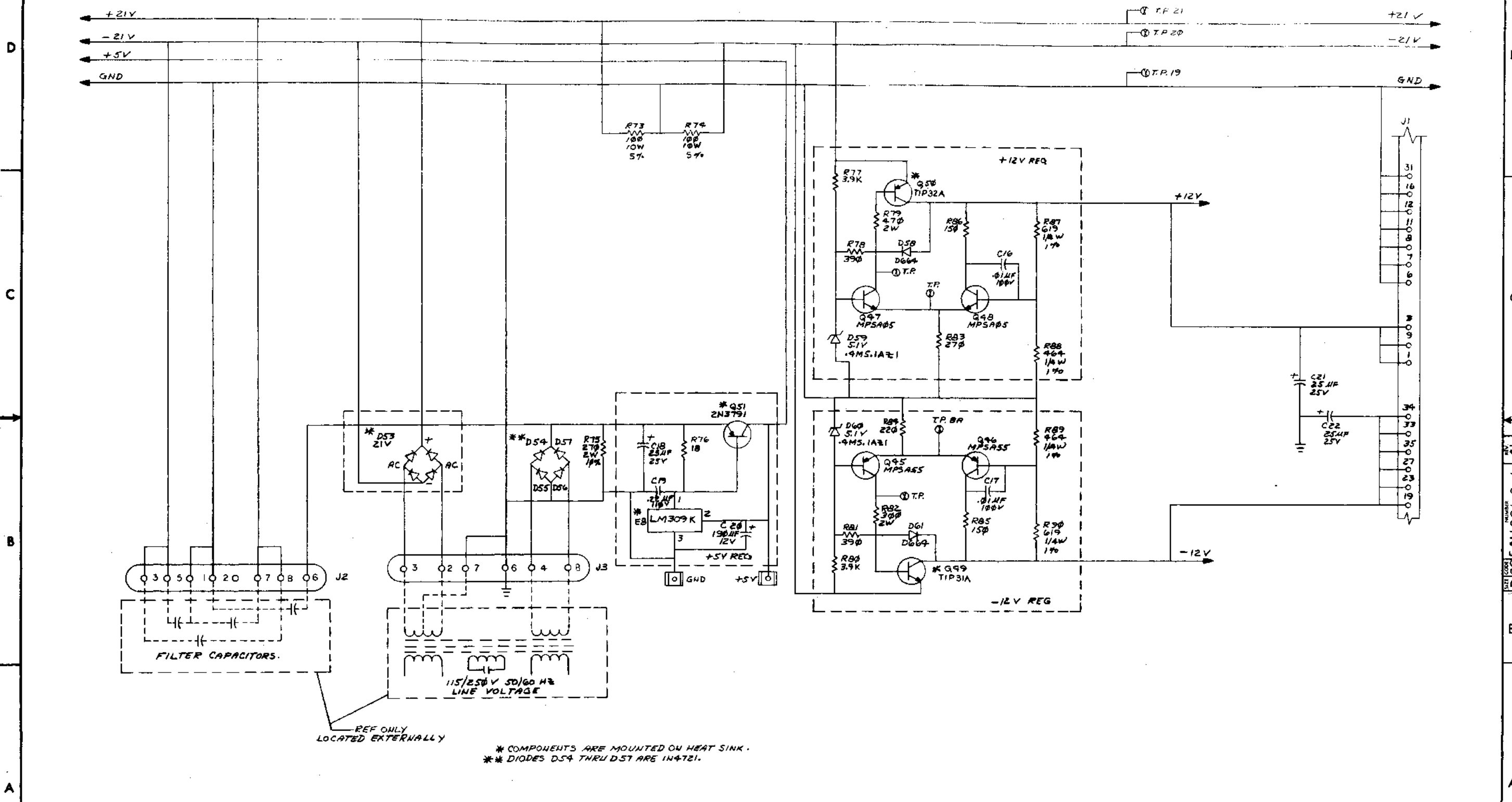
* COMPONENTS ARE MOUNTED ON HEAT SINK:

REVISIONS		
CHK	CHANGE NO	REV

TITLE	LA180 POWER BOARD	SIZE CODE	DCS5411021-0-1	NUMBER		REV.	N
SCALE		SHEET	3 OF 5	DIST.			

DCS5411021-0-1

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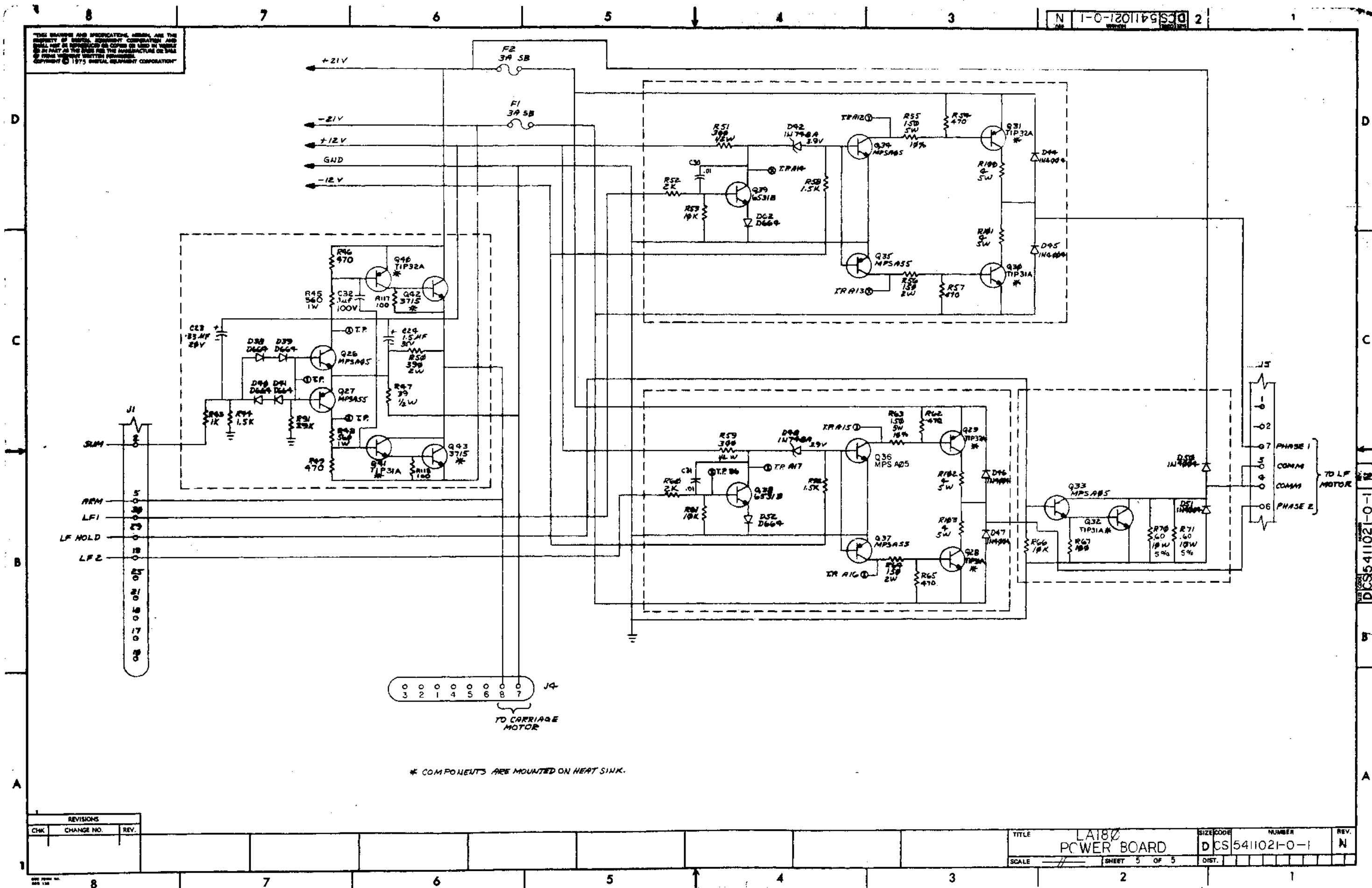
REF ONLY LOCATED EXTERNALLY

* COMPONENTS ARE MOUNTED ON HEAT SINK.
 ** DIODES DS4 THRU DS7 ARE 1N4721.

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	LA180 POWER BOARD	SIZE CODE	D	NUMBER	DCS 5411021-0-1	REV.	N
SCALE		SHEET	4	OF	5	DIST.	

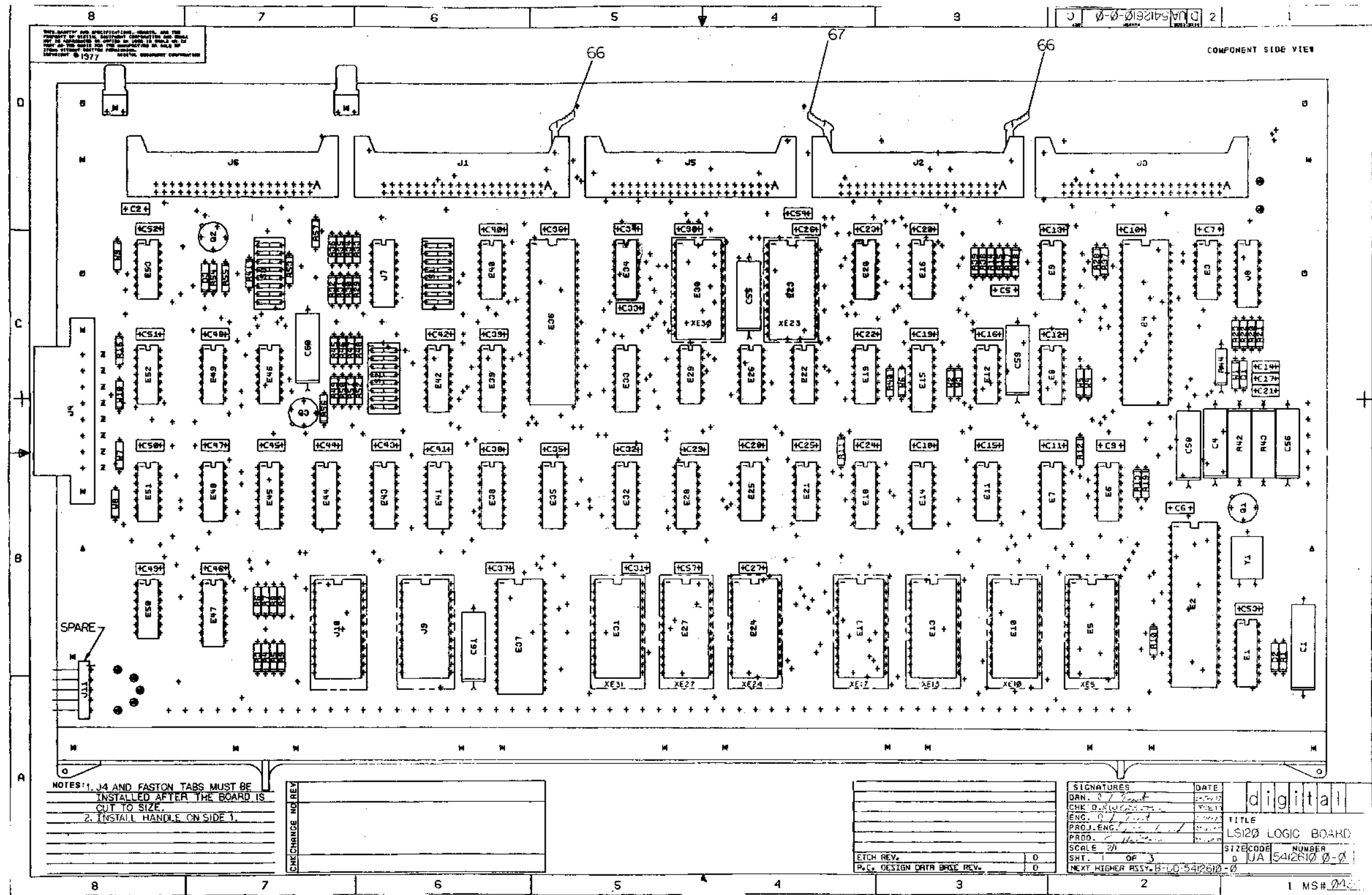
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* COMPONENTS ARE MOUNTED ON HEAT SINK.

REVISIONS		
CHK	CHANGE NO.	REV.

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



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COMPONENT SIDE VIEW

NOTES: 1. J4 AND FASTON TABS MUST BE INSTALLED AFTER THE BOARD IS CUT TO SIZE.
2. INSTALL HANDLE ON SIDE 1.

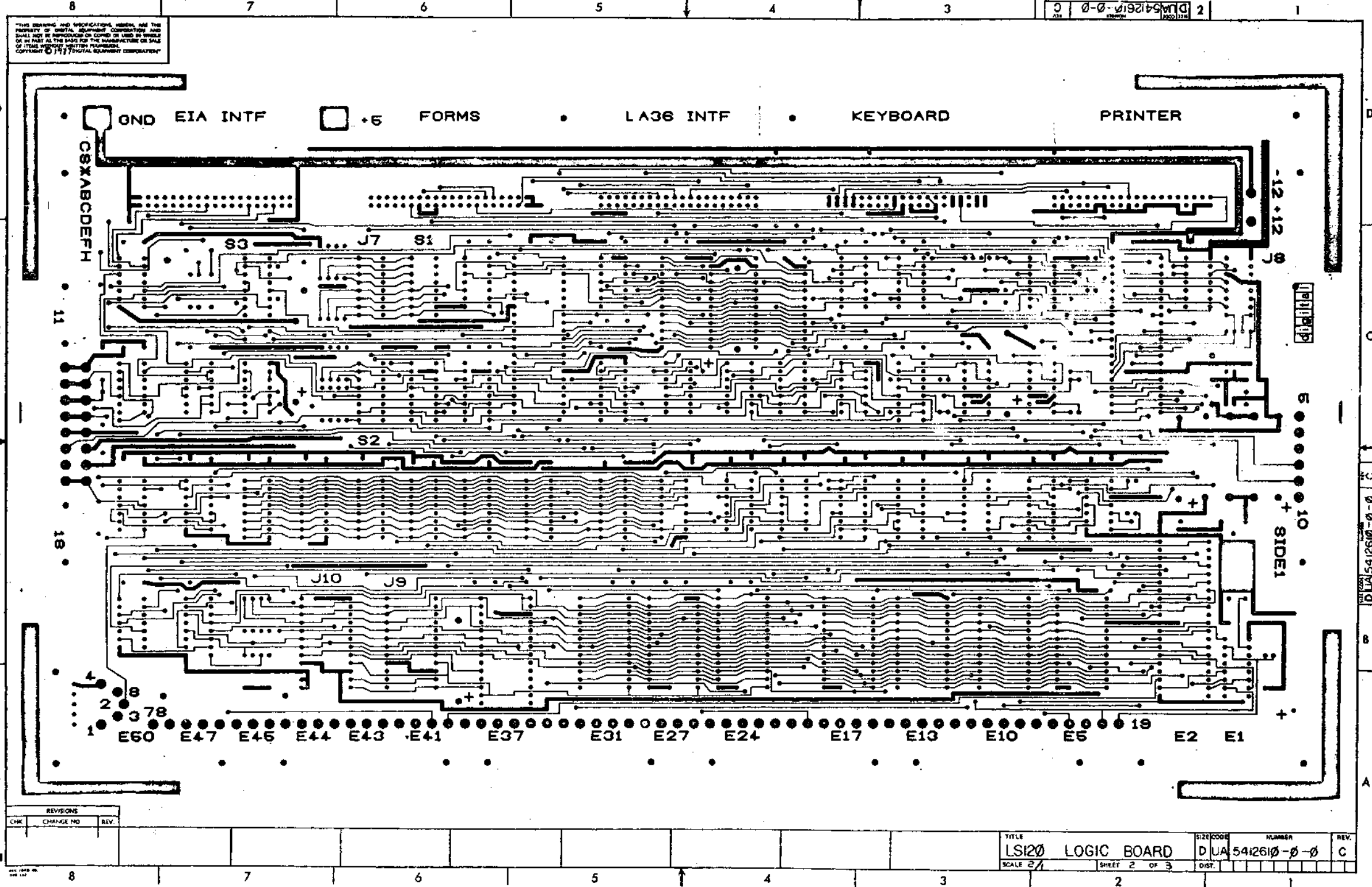
CHANGE NO	REV

ETCH REV.	0
P.C. DESIGN DATA BASE REV.	0

SIGNATURES		DATE	digital
DRN. <i>[Signature]</i>		10/20/77	
CHK. <i>[Signature]</i>		10/21/77	
ENG. <i>[Signature]</i>		10/21/77	
PROJ. ENG. <i>[Signature]</i>		10/21/77	
PRD. <i>[Signature]</i>		10/21/77	
SCALE 2/1			
SHT. 1 OF 3			
NEXT HIGHER ASSY. B-LD-5412610-0			

TITLE
LS120 LOGIC BOARD
SIZE CODE NUMBER
DUA 5412610-0-0

1 MS# 01



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D U A 5412610-0-0 2 C

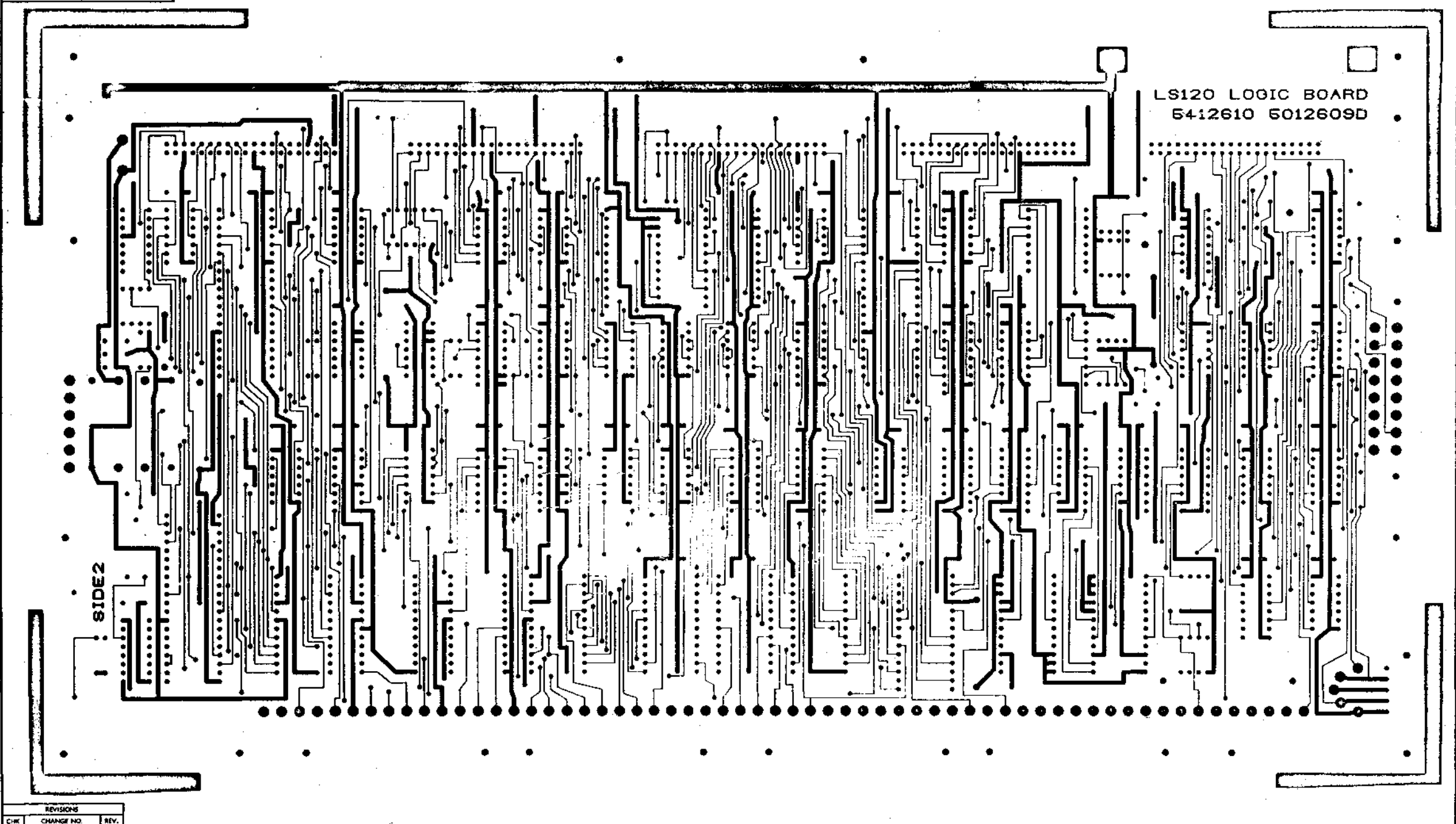
REVISIONS		
CHK	CHANGE NO	REV.

TITLE	LSI20 LOGIC BOARD	SIZE/CODE	D U A 5412610-0-0	NUMBER		REV.	C
SCALE	2/1	SHEET	2 OF 3	DIST.			

8 7 6 5 4 3 2 1

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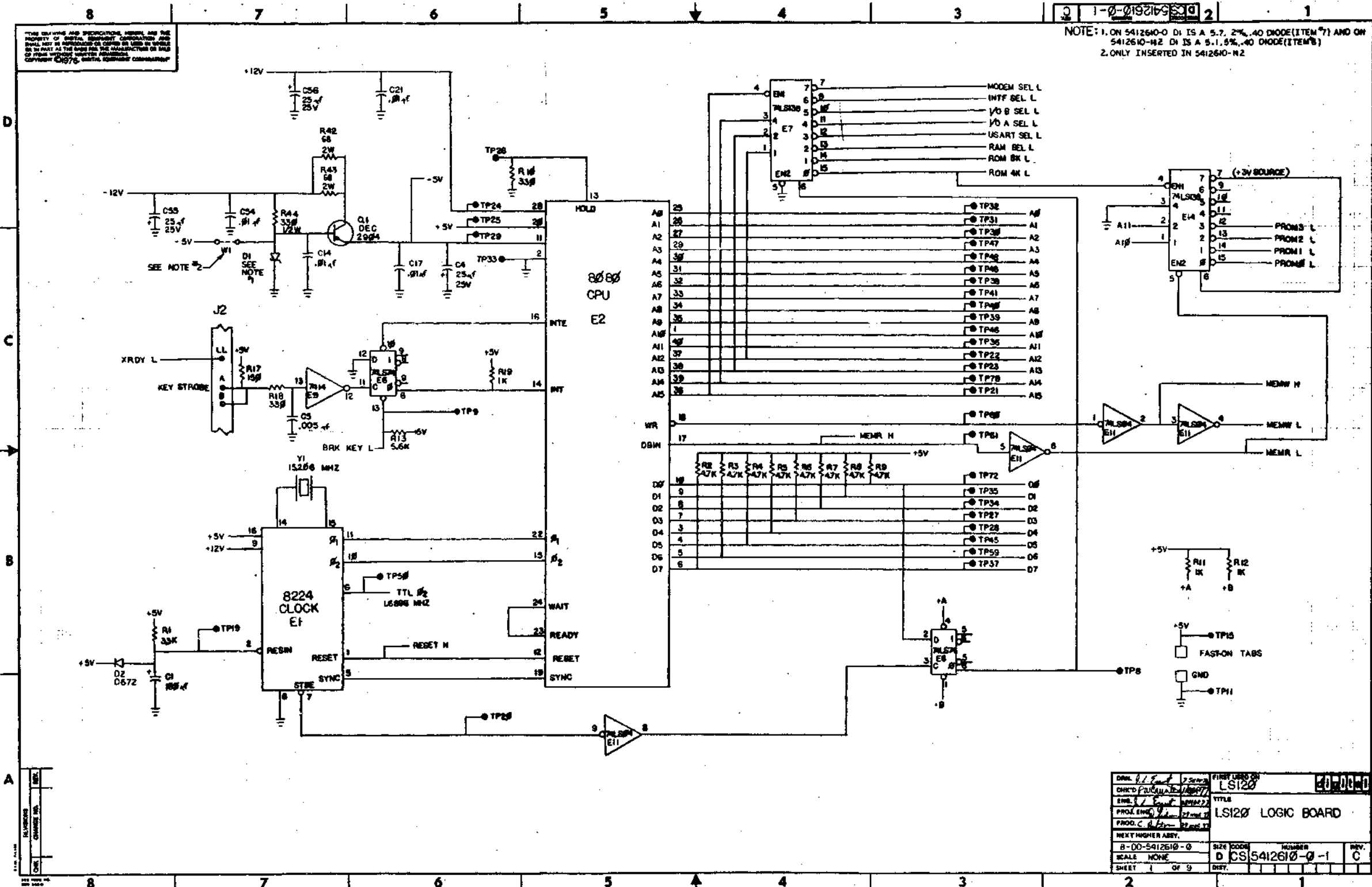
LS120 LOGIC BOARD
5412610 5012609D



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE/CODE	NUMBER	REV.
LS120 LOGIC BOARD	DJA	5412610-0-0	C
SCALE 2/1	SHEET 3 OF 3	DIST.	

8 7 6 5 4 3 2 1

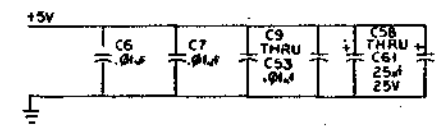
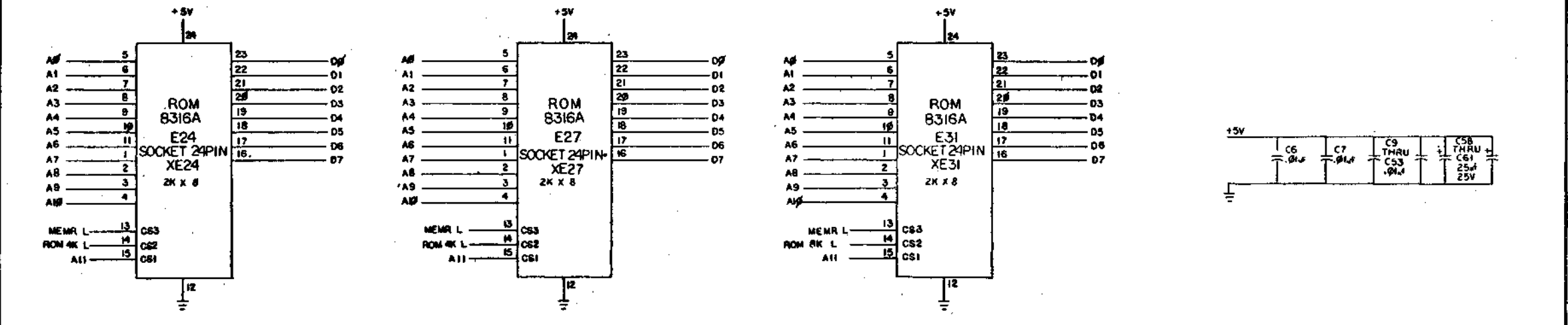
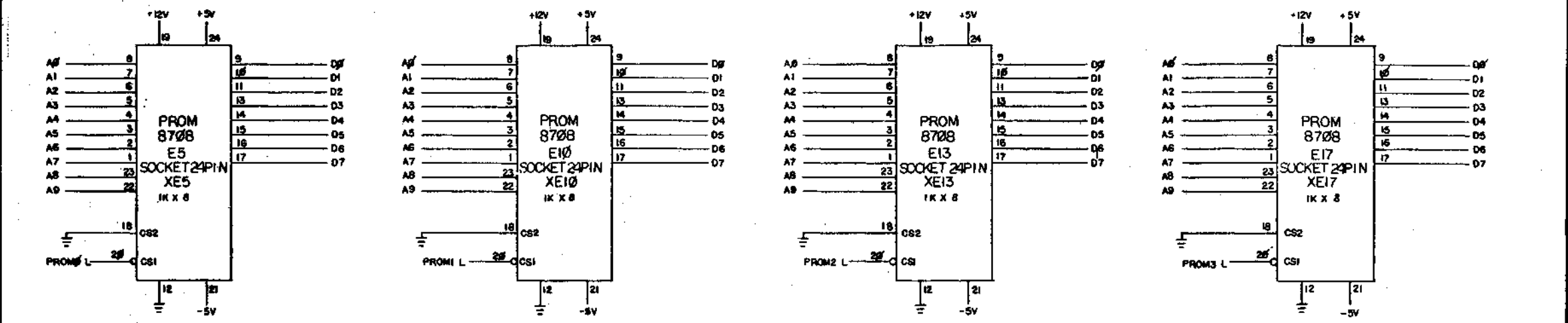


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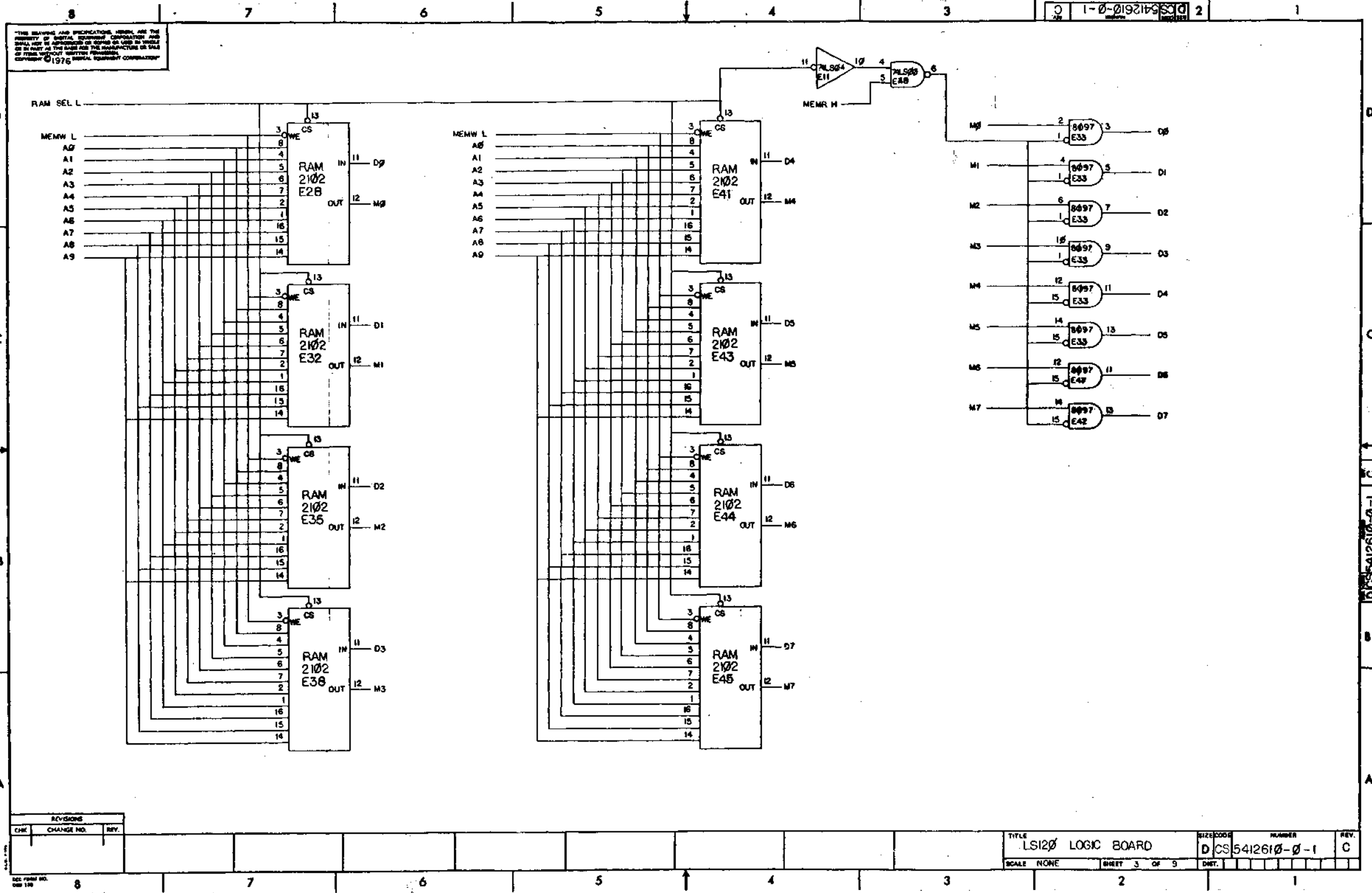
NOTE: 1. ON 5412610-0 DI IS A 5.7, 2%, .40 DIODE (ITEM 7) AND ON 5412610-1/2 DI IS A 5.1, 5%, .40 DIODE (ITEM 7)
2. ONLY INSERTED IN 5412610-N2

DRW. <i>J. J. Smith</i>	FIRST USED ON	40-0000
CHK'D <i>P. J. Smith</i>	LS120	
ENG. <i>J. J. Smith</i>	TITLE	
PROJ. ENG. <i>J. J. Smith</i>	LS120 LOGIC BOARD	
PROD. C. <i>J. J. Smith</i>		
NEXT HIGHER ASBY.		
B-00-5412610-0	SIZE CODE	NUMBER
SCALE NONE	D CS 5412610-0-1	REV. C
SHEET 1 OF 9	DRY.	

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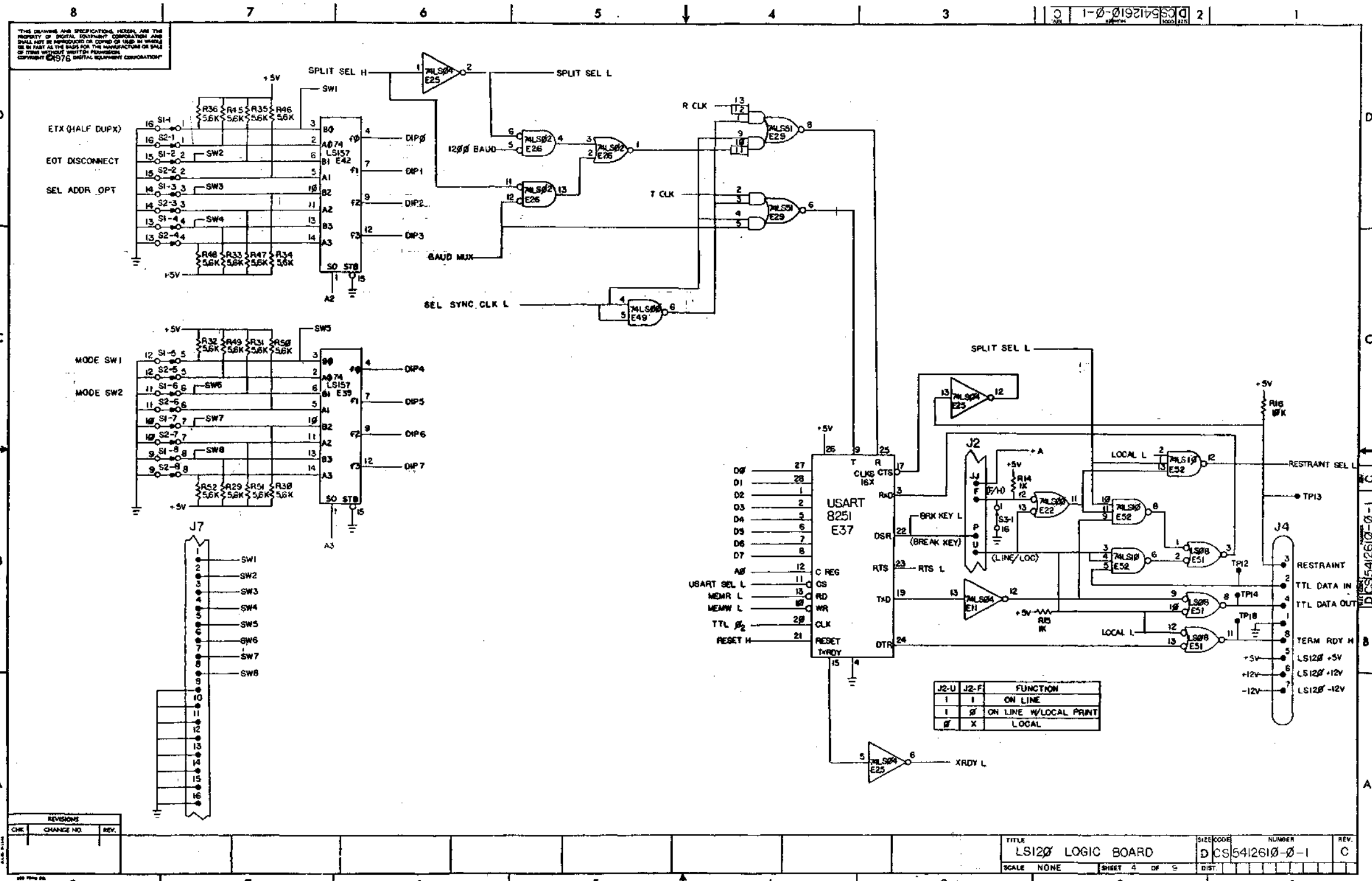
REVISIONS		
CHK	CHANGE NO.	REV.

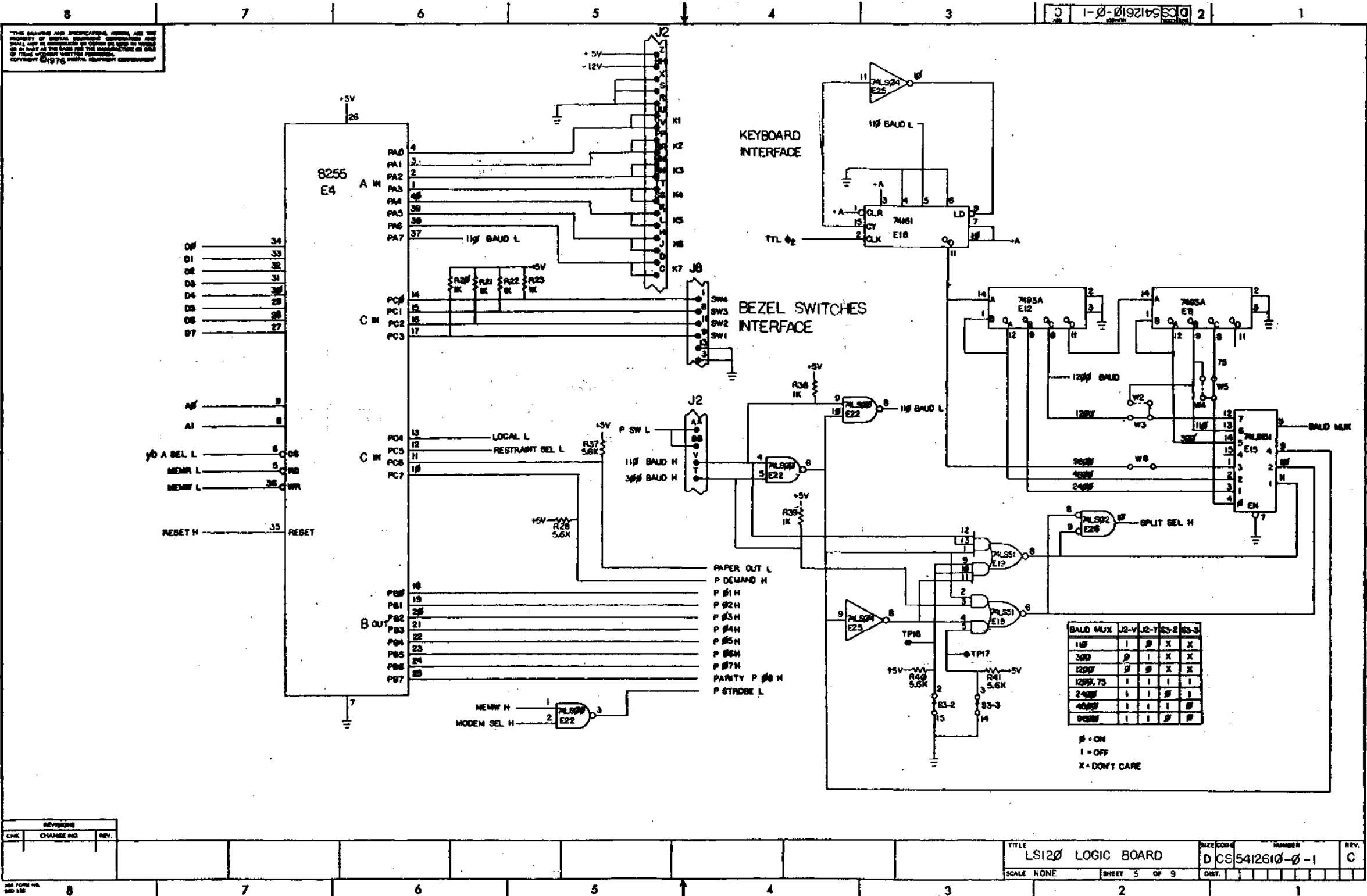


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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	LSI20 LOGIC BOARD	SIZE CODE	D CS 5412610-0-1	NUMBER		REV.	C
SCALE	NONE	SHEET	3 OF 9	DWT.			

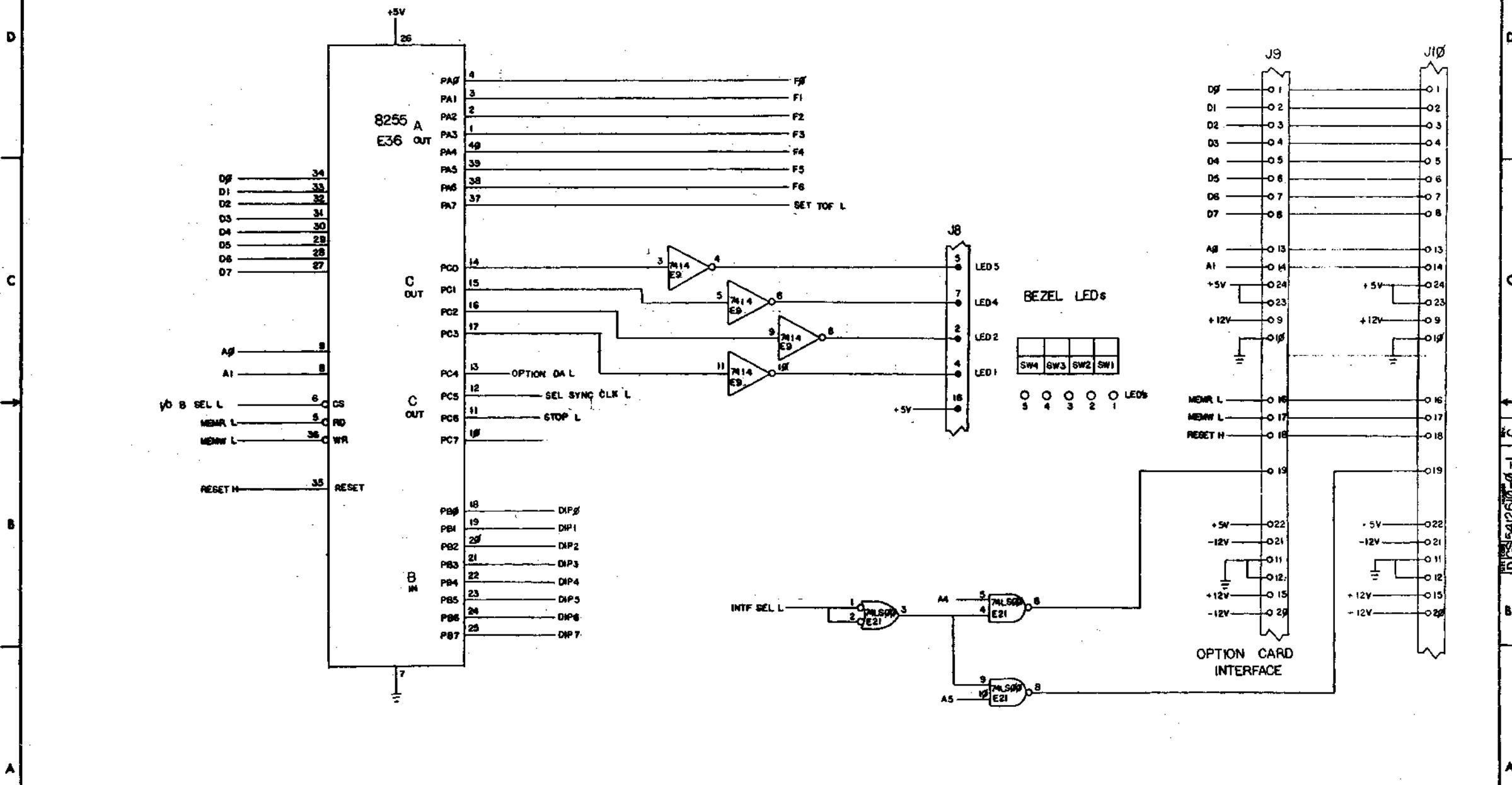




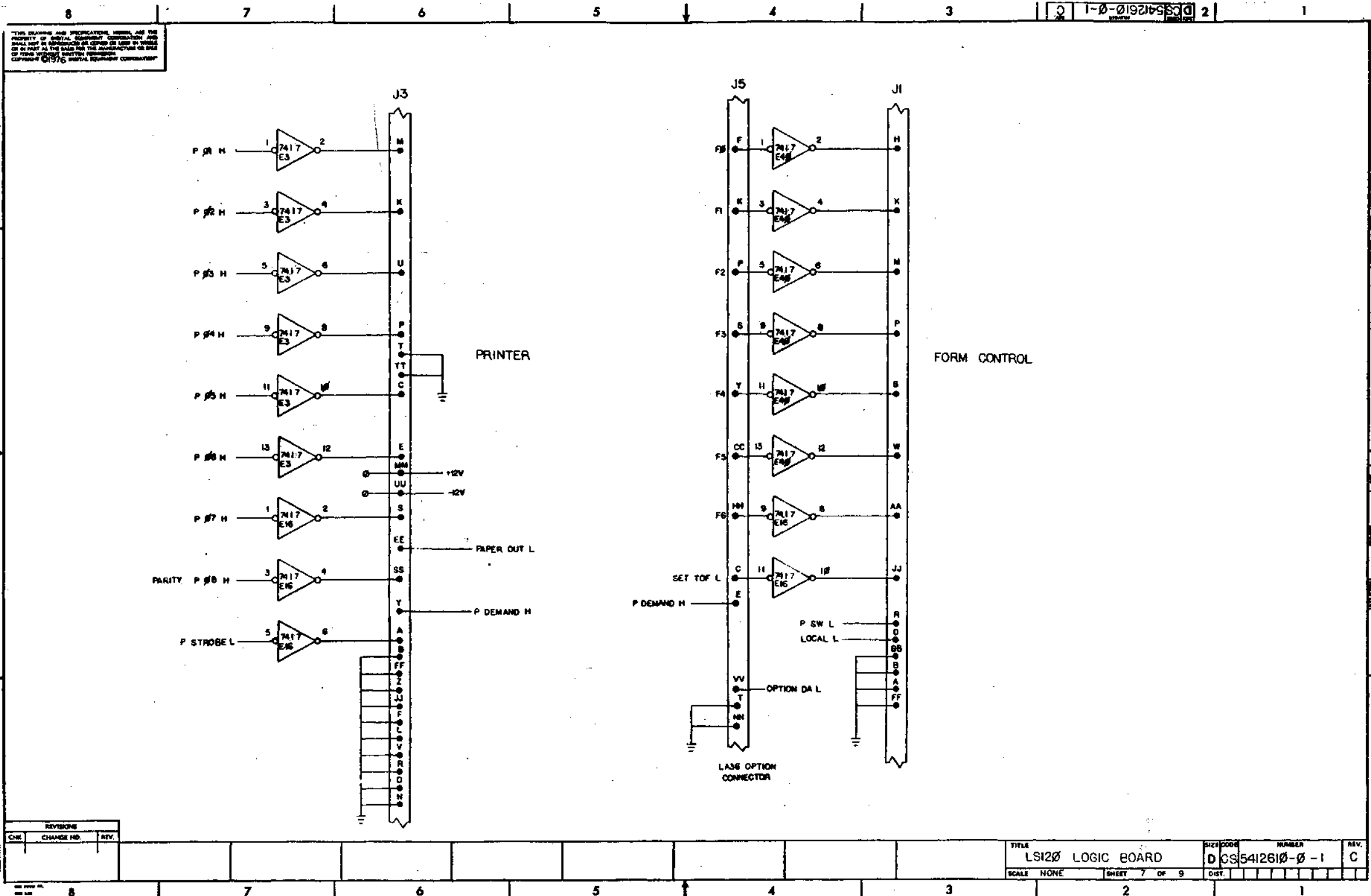
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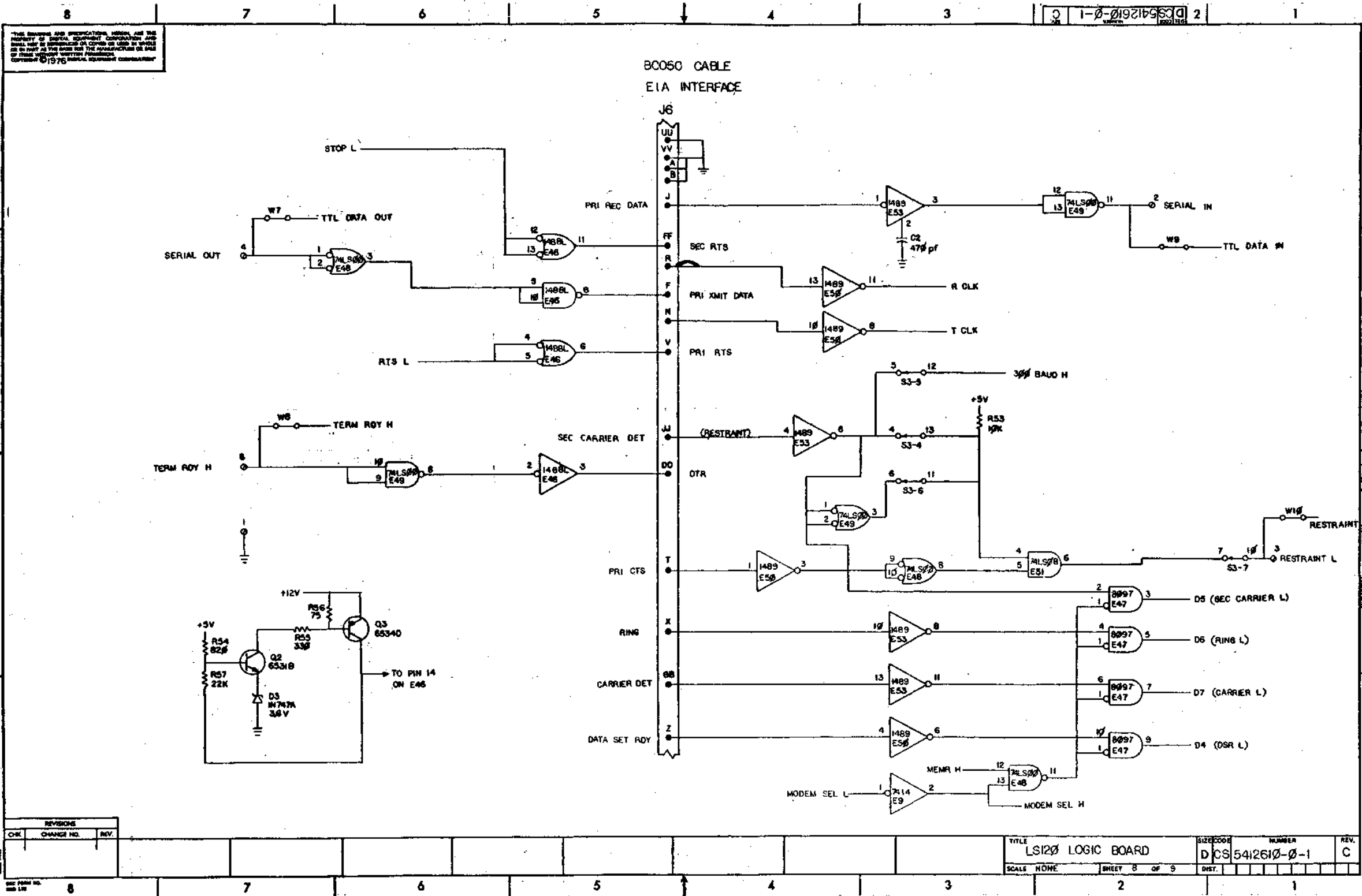
REVISIONS		
CHK	CHANGE NO.	REV.

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REVISIONS		
CHK	CHANGE NO.	REV.

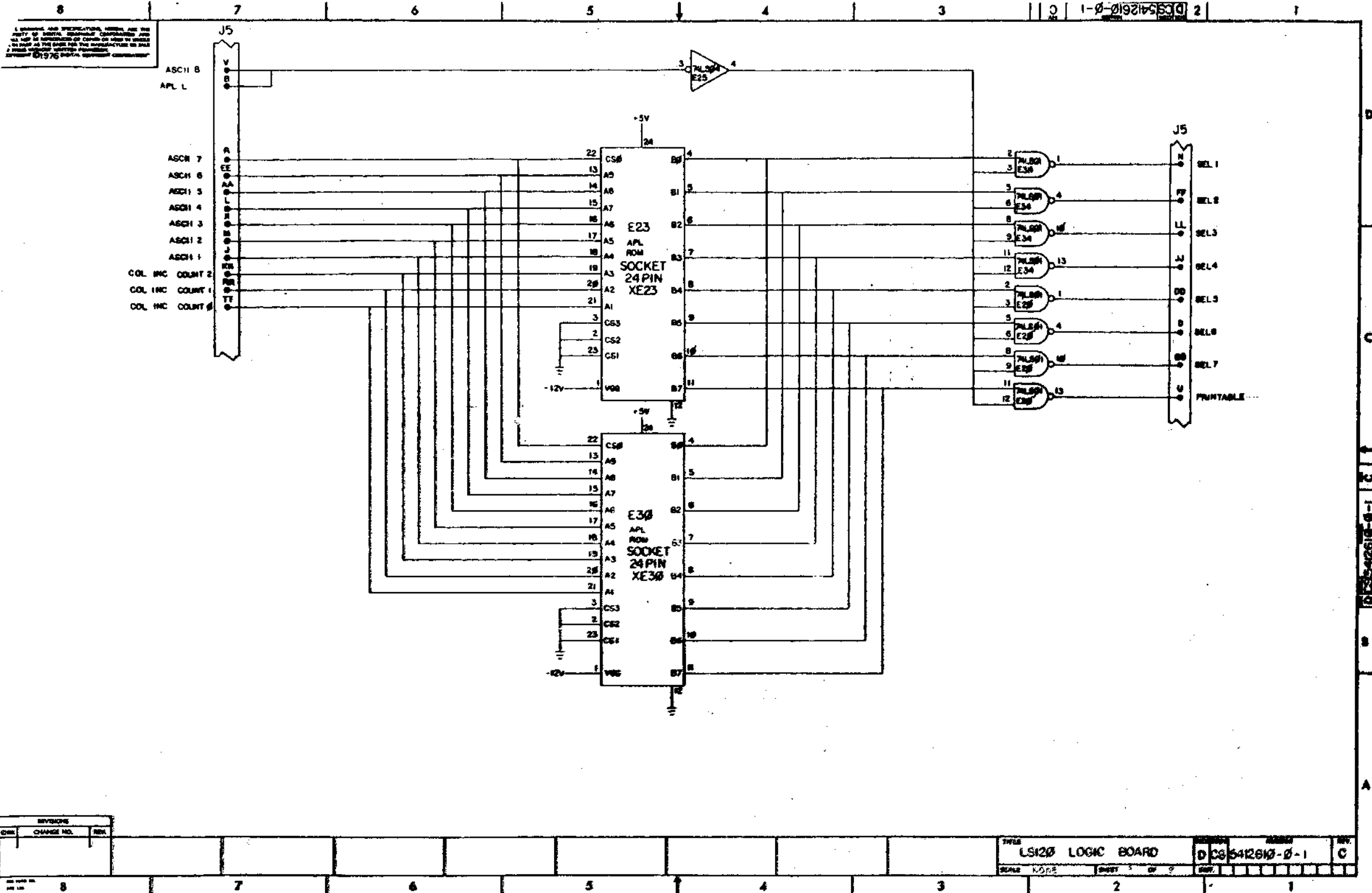




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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	LS120 LOGIC BOARD	SIZE CODE	D	NUMBER	CS 5412610-0-1	REV.	C
SCALE	NONE	SHEET	8	OF	9	DWT.	



REVISIONS		
NO.	CHANGE NO.	REV.

TITLE	LS120 LOGIC BOARD	REV.	C
SCALE	None	SHEET	2 OF 2
DATE	1-0-012610-0-1	APP.	

DIGITAL EQUIPMENT CORPORATION PARTS LIST

QUANTITY / VARIATION

NOTES:

MADE BY *K. Lamache*
DATE *7/MAR/77*
ENG *John L. Egert*
DATE *28/MAR/77*

CHECKED *RW Counter*
DATE *7 Mar 77*
PROD *C. Hilton*
DATE *29 MAR 77*

SECTION 1
ISSUED SECTION 1

5412610-0	5412610-1	5412610-2																	
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REF DESIGNATION

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	5412610-0	5412610-1	5412610-2														REF DESIGNATION
1	D-MD-5012609-0-0	5012609	ETCHED CIRCUIT BOARD	1	1	1														
2		1000086	CAP 180UF 6V 20%	1	1	1														C1
3		1000024	CAP 470UF 100V 5%	1	1	1														C2
4		1000075	CAP 25UF 25V	7	7	7														C4, C55, C56, C58 THRU C61
5		1001765	CAP .005UF 100V 20%	1	1	1														C5
6		1001610-01	CAP .01UF 100V	49	49	49														C6, C7, C9 THRU C54, C57
7		1111205	DIODE Z483B 2% .40W	1	0	0														D1
8		1110994	DIODE 1N751A 5% .40W	0	1	1														D1
9		1105275	DIODE D672	1	1	1														D2
10		1110672	DIODE 1N747A 5% .40W	1	1	1														D3
11		1209941-02	CONN., 40 PINS	4	4	0														J1, J2, J3, J6
12		1209941-02	CONN., 40 PINS	0	0	3														J2, J5, J6
13		1209340	CONN., MATE-N-LOK, 8 PIN HOUSING	1	1	1														J4
14		1211813	SOCKET 16 PINS	2	2	2														J7, J8
15		1210693	SOCKET 24 PINS	6	0	0														J9, J10, XE5, XE10, XE13, XE17
16		1210693	SOCKET 24 PINS	0	5	0														J9, J10, XE24, XE27, XE31
17		1809880-10	CRYSTAL 15.206 MHZ	1	1	1														Y1
18		1211164-04	SWITCH 8POS	3	3	3														S1, S2, S3
19		1300439	RES 3.3K 5% 1/4W	1	1	1														R1
20		1300447	RES 4.7K 5% 1/4W	8	8	8														R2 THRU R9
21		1300295	RES 330 5% 1/4W	3	3	3														R10, R18, R55

E.C.O. NO.

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TITLE
LS12Ø LOGIC BOARD

ASSY NO.
D-UA-5412610-0-0
SHEET 1 OF 4

SIZE B	CODE PL	NUMBER 5412610-0-0	REV. C
------------------	-------------------	-----------------------	------------------

INSERTION PARTS LIST DATA BASE REV

DIGITAL EQUIPMENT CORPORATION PARTS LIST				QUANTITY / VARIATION										NOTES:							
				MADE BY <i>X. Damache</i>		CHECKED <i>RW Counter</i>		SECTION	5412610-0	5412610-1	5412610-2										
DATE <i>7/MAR/77</i>		DATE <i>7 MAR 77</i>		1																	
ENG <i>John L. Egan</i>		PROD <i>C. Hilton</i>		ISSUED SECTION																	
DATE <i>23/MAR/77</i>		DATE <i>29 MAR 77</i>		1																	
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION																		REF DESIGNATION
22		1300365	RES 1K 5% 1/4W	11	11	11															R11, R12, R14, R15, R19 THRU R23, R38, R39
23		1301874	RES 5.6K 5% 1/4W	21	21	21															R13, R28, THRU R37, R40, R41, R45 THRU R52
24		1300479	RES 10K 5% 1/4W	2	2	2															R16, R53
25		1300250	RES 150 5% 1/4W	1	1	1															R17
26		1302308	RES 68 5% 2W	2	0	0															R42, R43
27		1300296	RES 330 5% 1/2W	1	1	1															R44
28		1301775	RES 820 5% 1/4W	1	1	1															R54
29		1302379	RES 75 5% 1/4W	1	1	1															R56
30		1301808	RES 22K 5% 1/4W	1	1	1															R57
31		1501742	TRANS 2904	1	0	0															Q1
32		1509338	TRANS 6531B	1	1	1															Q2
33		1503409	TRANS 6534D	1	1	1															Q3
34		1913105	I.C. DEC 8224	1	1	1															E1
35		2113108	I.C. DEC 8080	1	1	1															E2
36		1909929	I.C. DEC 7417	3	3	0															E3, E16, E40
37		2113894	I.C. DEC 8255	2	2	2															E4, E36
38		1912824	I.C. DEC 74LS74	1	1	1															E6
39		1912842	I.C. DEC 74LS138	2	0	0															E7, E14
40		1912842	I.C. DEC 74LS138	0	1	1															E7
41		1909054	I.C. DEC 7493A	2	2	2															E8, E12
42		1911324	I.C. DEC 7414	1	1	1															E9

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			LS120 LOGIC BOARD	D-UA-5412610-0-0	B	PL	5412610-0-0
SHEET 2 OF 4				INSERTION PARTS LIST DATA BASE REV			

DIGITAL EQUIPMENT CORPORATION PARTS LIST

QUANTITY / VARIATION

NOTES:

MADE BY *R. Damache*
DATE *7/MAR/77*

CHECKED *R.W. Coates*
DATE *7 Mar 77*

SECTION
1

ENG *John L. Eggert*
DATE *22/MAR/77*

PROD *C. Hilton*
DATE *29-MAR-77*

ISSUED SECTION
1

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY / VARIATION												REF DESIGNATION	
				5412610-0	5412610-1	5412610-2											
43		1912803	I.C. DEC 74LS04	2	2	2											E11, E25
44		1912844	I.C. DEC 74LS151	1	1	1											E15
45		1910650	I.C. DEC 74161	1	1	1											E18
46		1912820	I.C. DEC 74LS51	2	2	2											E19, E29
47		1912799	I.C. DEC 74LS00	4	4	4											E21, E22, E48, E49
48		1912801	I.C. DEC 74LS02	1	1	1											E26
49		2111318-01	I.C. DEC 2102	8	8	8											E28, E32, E35, E38, E41, E43, E44, E45
50		1911527	I.C. DEC 8097	2	2	2											E33, E47
51		2113107	I.C. DEC 8251	1	1	1											E37
52		1912847	I.C. DEC 74LS157	2	2	2											E39, E42
53		1910322	I.C. DEC 1488L	1	1	1											E46
54		1910323	I.C. DEC 1489	2	2	2											E50, E53
55		1912805	I.C. DEC 74LS08	1	1	1											E51
56		1912807	I.C. DEC 74LS10	1	1	1											E52
57		1209456-01	PINS, CONN, FEMALE	8	8	8											
58		9009185	JUMPER, WHT INSULATION	7	0	0											W3, W5 THRU W10
59		9009185	JUMPER, WHT INSULATION	0	8	0											W1, W3, W5 THRU W10
60		9006735	SPLIT LUGS	7	7	7											
61		9007112	FASTON TABS	2	2	2											
62		1210711-01	HANDLE, MODULE, HEX BD.	1	1	1											
63		9007201	TRANSIPADS	1	0	0											

E.C.O. NO.

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TITLE
LS120 LOGIC BOARD

ASSY NO.
D-UA-5412610-0-0
SHEET 3 OF 4

SIZE **B** CODE **PL** NUMBER 5412610-0-0
INSERTION PARTS LIST DATA BASE REV

REV. **C**

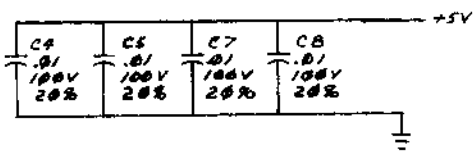
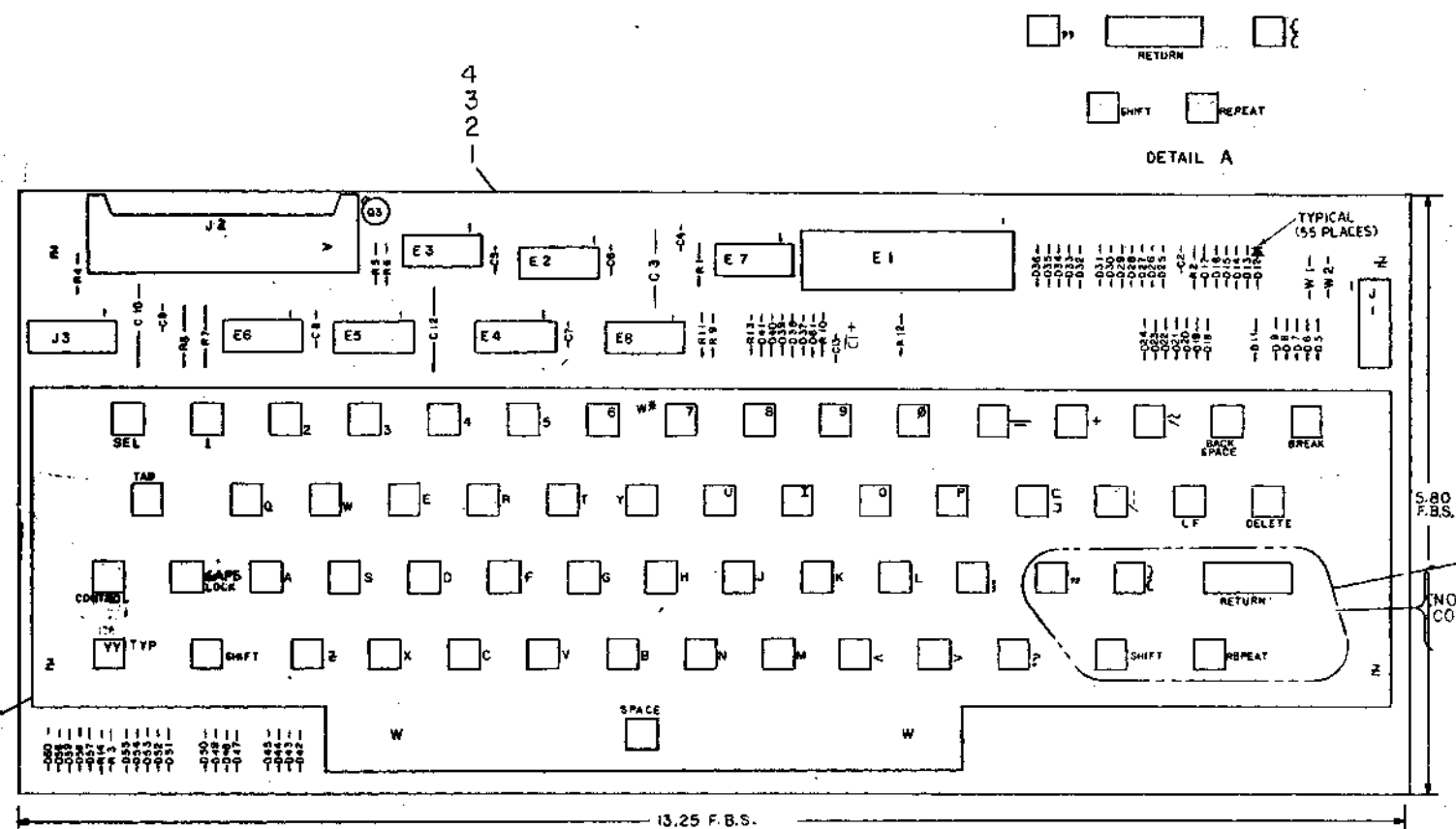
DIGITAL EQUIPMENT CORPORATION PARTS LIST

MADE BY <i>X. Samach</i>	CHECKED <i>RW Coenter</i>	SECTION 1	QUANTITY / VARIATION										NOTES:
DATE <i>7/MAR/77</i>	DATE <i>7 Mar 77</i>												
ENG <i>John L. Eggert</i>	PROD <i>C. Hilton</i>	ISSUED SECTION 1											
DATE <i>28/MAR/77</i>	DATE <i>29 MAR 77</i>												

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	5412610-0	5412610-1	5412610-2														REF DESIGNATION
64		1210693	SOCKET 24 PINS	0	0	7														J9, J10, XE23, XE24, XE27, XE30, XE31
65		1912800	I.C. DEC 74LS01 ←	0	0	2														E20, E34
66		1209941-03	LATCH, LEFT	2	2	1														
67		1209941-04	LATCH, RIGHT	1	1	1														
68		9009000	EYELET (FASTON TAB)	2	2	2														
69		9006732	EYELET (MATE-N-LOK)	2	2	2														
70		9006732	EYELET (HANDLE)	12	12	12														
71		9009185	JUMPER WHT INSULATION	0	0	8														W1, W2, W5 THRU W10

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NOTES: TWO VARIATIONS OF THIS BOARD SHALL BE AVAILABLE:
1. 5410736-0-NORMAL = NORMAL KEY CAP CONFIGURATION; W/IN, IN/AR OUT
2. 5410736-YA-O YA = OPTIONAL KEY CAP CONFIGURATION; W/IN, IN/AR OUT



REF	REF	X-Y COORDINATE HOLE LOCATION	PCB 5410736-0-1	1	
REF	REF	ASSY/DRILLING HOLE LAYOUT	D-AH-5410736-0-5	2	
REF	REF	MODULE ECO HISTORY	B-MH-5410736-0-6	3	
1	1	ETCHED CIRCUIT BOARD	5010735	4	
1	1	C3	CAP. .01UF, 100V 10% MYLAR	1005784	5
6	6	C4, C5, C7, C8, C9, C13	CAP. .01UF, 100V 20% DISC	100610-01	6
1	1	C1	CAP. 1UF, 25V TANT	1010866-01	7
1	1	C2	CAP. 180PF, 100V 5% NICH	1000020-00	8
2	2	C10, C12	CAP. .10UF, 20V 10% TANT	1004813	9
55	55	D5-D9, D11-D15, D17-D61	DIODE, D664	1100114-00	10
1	1	Q3	TRANSISTOR DEC 2009B	1503100-00	11
2	2	J1, J3	SOCKET (16 PINS)	1211813	12
1	1	J2	CONNECTOR, RIGHT ANGLE HEADER	1209941-02	13
1	1	XE1	SOCKET ROM	1212305-00	14
1	1	E2	I.C. 7404	1909686	15
2	2	E3, E8	I.C. 7400	1905575	16
2	2	E5, E6	I.C. 7437	1910091	17
1	1	E4	I.C. 9601	1909373	18
1	1	E1	I.C. ROM	12300821	19
0	1	W1	JUMPER (INSULATED .4)	9009185	20
1	1		63 KEYSWITCH ARRAY	D-AD-3009185-0-21	21
9	9	R1, R8, R4, R5, R10-RM	RES 1K 1/4W 5%	1300365-00	22
1	1	R6	RES 3.9K 1/4W 5%	1300444-00	23
1	1	R9	RES 22K 1/4W 5%	1301808-00	24
1	1	R2	RES 100K 1/4W 5%	1302466-00	25
2	2	R7, R8	RES 2 OHM 1/2W 5%	1309421-00	26
1	1	E7	I.C. 7410	1905576	27
1	0	W2	JUMPER (INSULATED .4)	9009185	28
1	1	C6	CAP. 1000PF 100V 5% NICH	1000042-00	29

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.

REVISIONS

REV	DATE	DESCRIPTION
1	12-25-74	REVISED & REDRAWN
2	1-18-75	REVISION
3	1-18-75	REVISION

PAUL NELSON
5-12-75

REV	DATE	DESCRIPTION
1	12-25-74	REVISED & REDRAWN
2	1-18-75	REVISION
3	1-18-75	REVISION

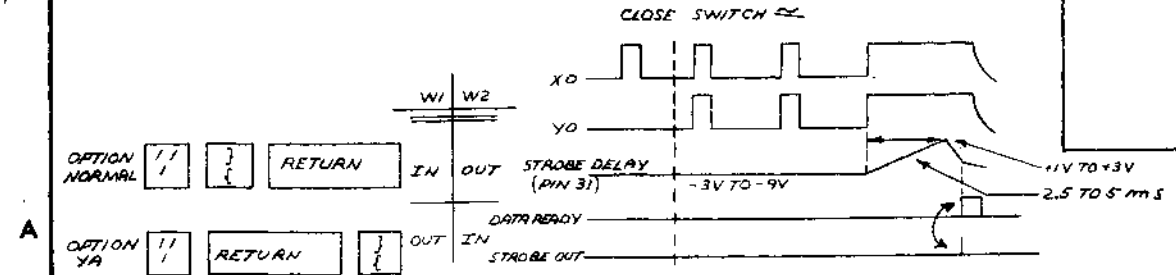
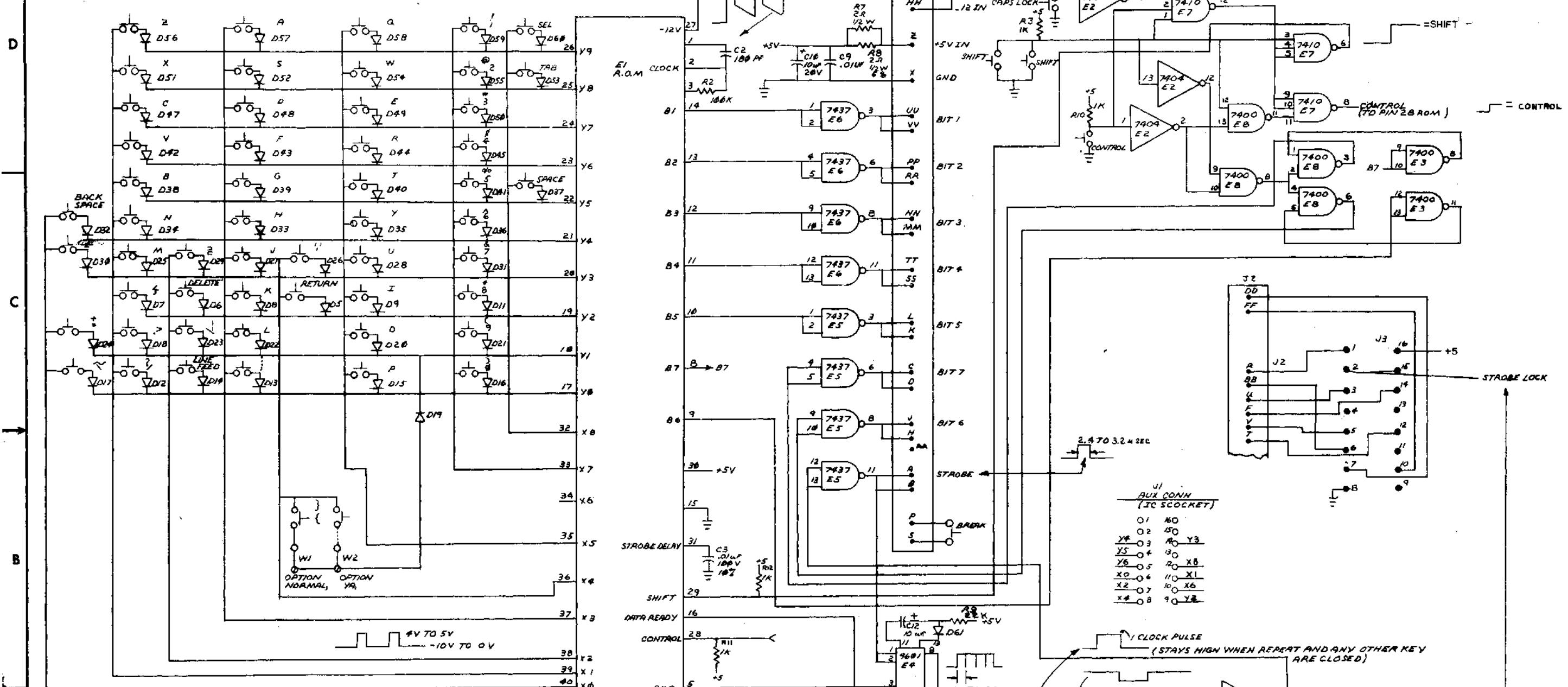
PAUL NELSON
5-12-75

SEMICONDUCTOR CONVERSION CHART

DEC. NO.	EIA NO.	DEC. NO.	EIA NO.

Digital Equipment Corporation
LKO2 KEYBOARD
DUA-LKO2-0-0
SCALE: 1 OF 2
SHEET 1 OF 2

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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	LK02 KEYBOARD	SIZE CODE	D CS	NUMBER	5410736-0-1	REV.	F
SCALE		SHEET	2 OF 2	DIST.			

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DIGITAL EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

PACKAGING INSTRUCTION

TITLE DECwriter

REV: A DATE: 7/75
 B 1/76
 C 11/76
 D 4/77

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 Brace
2	90-09290-03	3/8-16 X 3 Hex-Head Bolt
1	36-12520-0-0	Caution Tag
6 ft	90-09634	Stain Resistant Tape
1	90-07032	Panduit Cable Tie
20 ft	9905734-02	Polypropylene Strapping
1	9905129-35	Poly Bag
2	9008319	Washer, Flat

PACKAGING INSTRUCTIONS - 3700131-00

- | Step | Procedure |
|------|--|
| 1. | Lift the cover and slide the print head to the left as far as it will go. Slip the Panduit 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 glass filament tape (90-09634). |
| 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 (9009290-03) and washers (9008319) 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.

ENG Bill Patton 4/26/77	APPD LJ Nielsen 4-27-77	SIZE A	CODE SP	NUMBER 3700131-0-0	REV D
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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 Brace (2 X 3)
2	90-09290-03	3/8-16 X 3 Hex-Head Bolts
1	36-12520-0-0	Caution Tag
2 ft	90-09634	Stain Resistant Tape (3M)
1	90-07032	Panduit Cable Tie
20 ft	9905734-02	Polypropylene Strapping
1	9905129-35	Poly Bag
2	9008319	Washer, Flat

PACKAGING INSTRUCTIONS - 3700131-01

- | Step | Procedure |
|------|--|
| 1. | Lift the cover and slide the print head to the left as far as it will go. Slip the Panduit 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. | With two (2) strips of glass filament tape (90-09634) 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 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 (9009290-03) and washers (9008319) 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

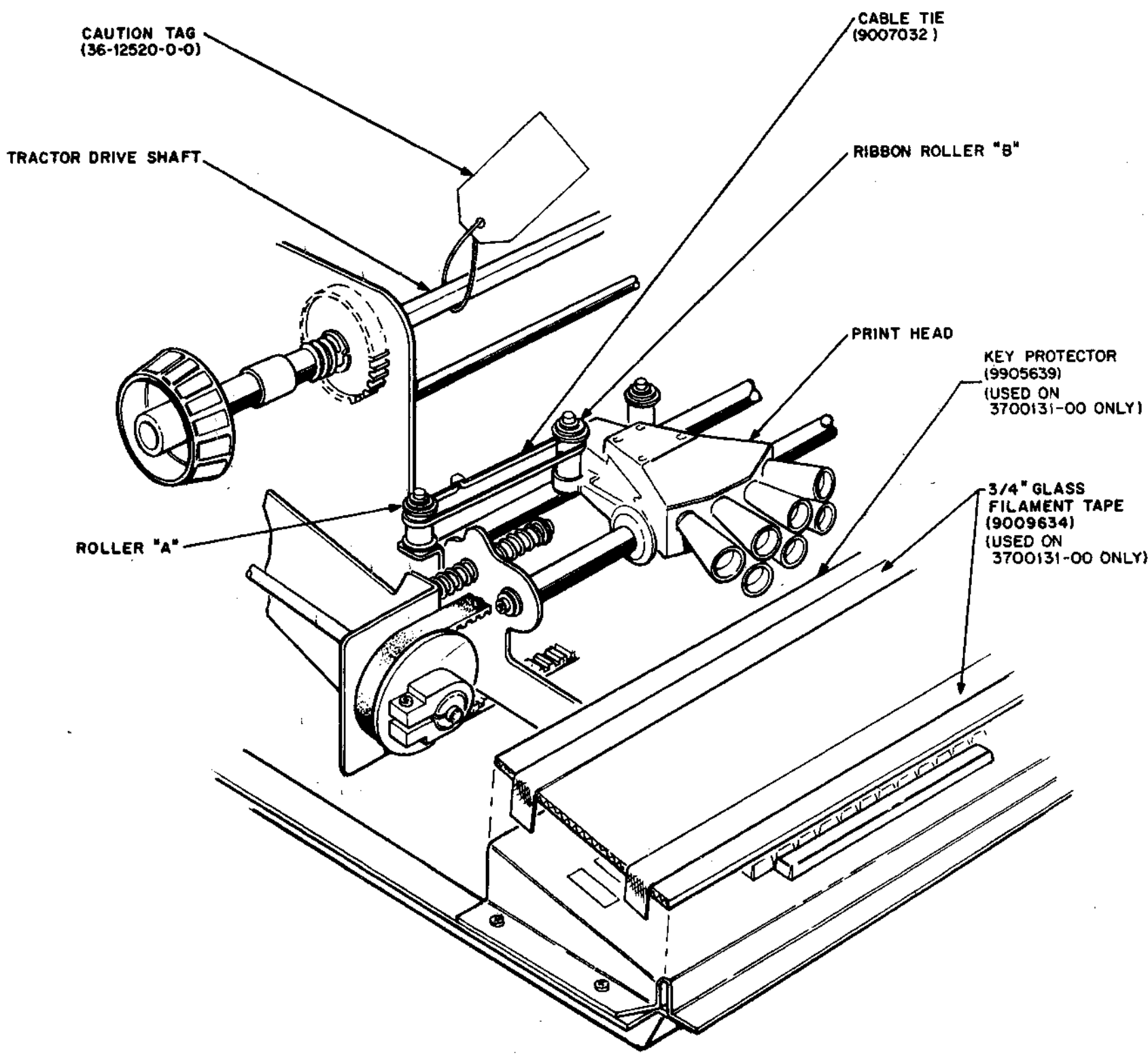
Make sure that the Stitched Tube is resting on the wood skid base, on all 4 sides.

9. Strap in two places as shown in Figure 2. Use Polypropylene strapping (9905734-02).

Bill Patton 4/26/77	LJ Nielsen 4-27-77	SIZE A	CODE SP	NUMBER 3700131-0-0	REV D
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PACKAGING INSTRUCTION	REV: <u> C </u>	DATE: <u> 11/76 </u>
TITLE DECWRITER	<u> D </u>	<u> 4/77 </u>



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

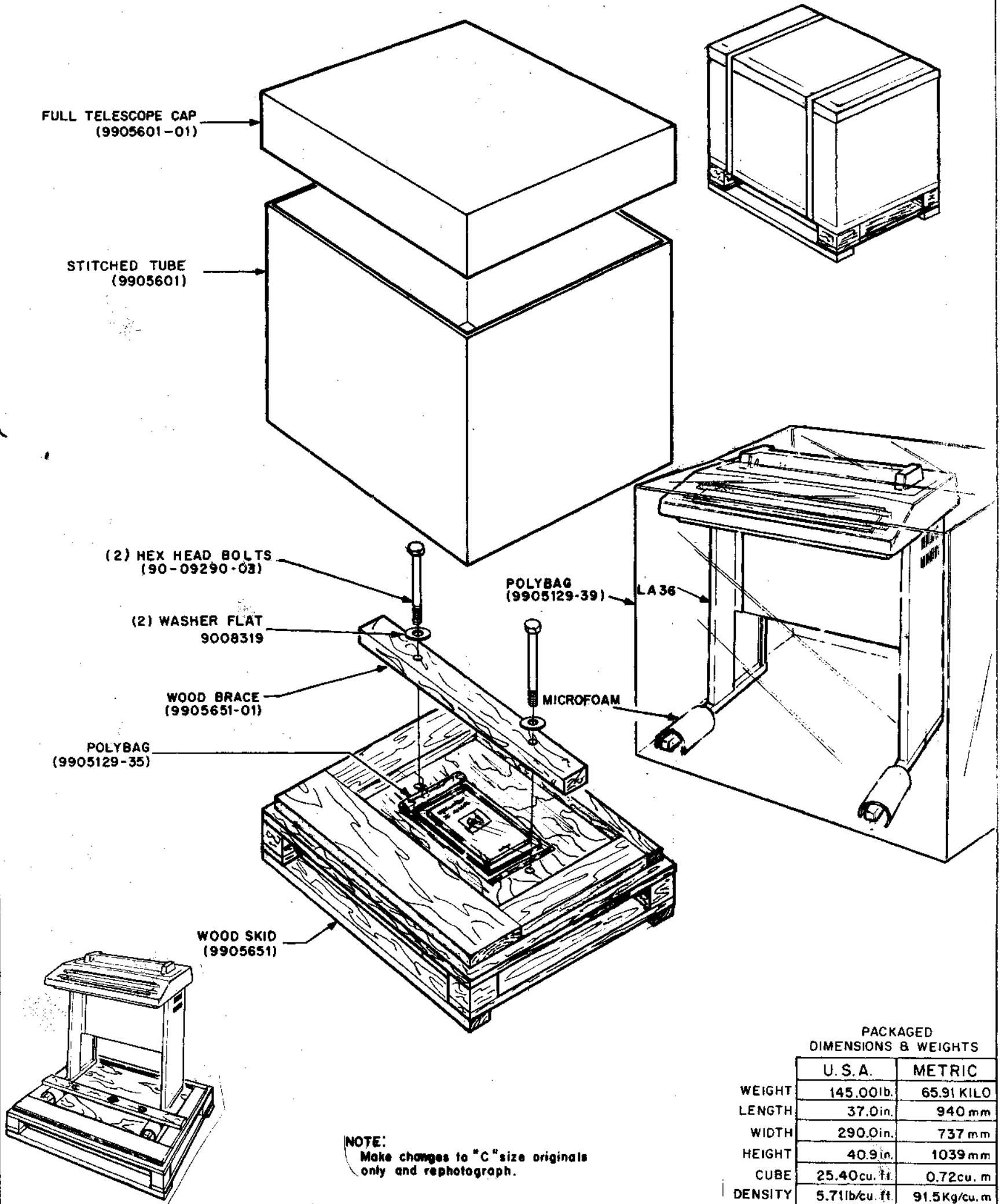
ENG. <i>Ken Merriam</i> 7/7/75	APPD. <i>J.W. Lawrence</i> 1/7/75	SIZE A	CODE SP	NUMBER 3700131-0-0	REV D
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PACKAGING INSTRUCTION

REV: C DATE: 11/76
 D 4/77

TITLE
DECWRITER



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

	PACKAGED DIMENSIONS & WEIGHTS	
	U. S. A.	METRIC
WEIGHT	145.00lb.	65.91 KILO
LENGTH	37.0in.	940 mm
WIDTH	290.0in.	737 mm
HEIGHT	40.9in.	1039 mm
CUBE	25.40cu. ft.	0.72cu. m
DENSITY	5.71lb/cu. ft.	91.5Kg/cu. m

ENG. <i>Ken Merriam</i>	<i>2/04/76</i>	APPD. <i>J. W. Lawrence</i>	<i>2/24/75</i>	SIZE A	CODE SP	NUMBER 3700131-0-0	REV. D
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DRC-108