

- NOTES:
1. FOR INSTALLATION OF THESE PARTS SEE THEIR ASSOCIATED ASSEMBLY DRAWINGS.
 2. FRONT DOOR STOPS MOUNT ON LEFT FRONT RAIL IN HOLE NOS. 3 & 43.
 3. REAR DOOR STOPS MOUNT ON LEFT REAR RAIL IN HOLE NOS. 7 & 89.
 4. FRONT DOOR GROUND STRAP CONNECTS TO RIGHT FRONT RAIL HOLE NO. 7 DOUBLE ANGLE EDGE.
 5. REAR DOOR GROUND STRAP CONNECTS TO RIGHT REAR RAIL HOLE NO. 13 DOUBLE ANGLE EDGE.
 6. END PANEL GROUND STRAPS CONNECT TO SIDE OF FRONT RAILS HOLE NO. 83 DOUBLE ANGLE EDGES.
 7. PLACE PRODUCT IDENTIFICATION LABEL IN LEFT REAR CORNER OF TOP COVER (RIGHT SIDE AS VIEWED FROM REAR). LABEL TS11-CA OR -CB AS APPROPRIATE IN ADDITION TO SERIAL NUMBER.
 8. ADD ITEM 8, GROMMET, TO BRACKET (REAR DOOR HINGE/END PANEL LOCK, 74-22221-00) ON RIGHT REAR CORNER. PLACE GROMMET ON BRACKET SIDE CLOSEST TO POWER CORD.

SEE OFF SHEET PARTS LIST: K-PL-TS11-C-DBP

REVISION HISTORY					DRN: C. BENHAM	DATE: 25 SEPT 79	DIGITAL			
ENG	ECO NUMBER	REV	ENG	ECO NUMBER	REV	TITLE				
						SYSTEM ARRANGEMENT				
	INIT	A			CHK'D: R. NELSON	DATE: 25 SEPT 79	TS11-A IN H9546 CAB			
RN	TS11C-ML001	B								
RN	TS11C-ML002	C								
					DES.ENG.: R. NELSON	DATE: 25 SEPT 79				
					RESP.ENG.: R. NELSON	DATE: 25 SEPT 79	DOCUMENT NUMBER			
					MFG.ENG.: J. SOUZA	DATE: 25 SEPT 79	SIZE	CODE	NUMBER	REV.
							K	SA	TS11-C-DBF	C
							SHEET 1 OF 1			

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ML2

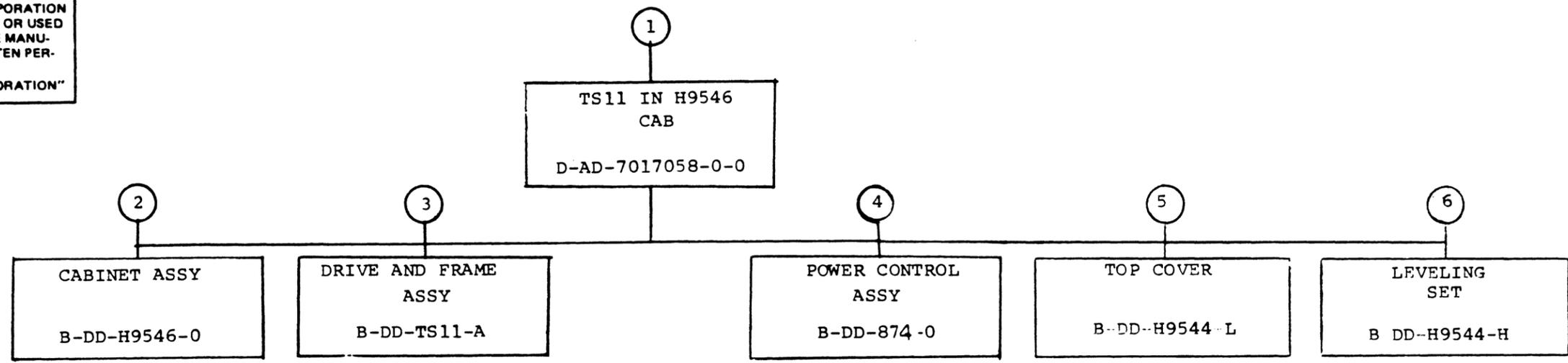
LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION
1	D-AD-7017058-D-0	7017058-00	TS11 UX H9546 CAB	1
1	D-AD-7017058-D-1	7017058-01	CANCEL (10-15-80 CAROL TAYLOR)	1
1	E-UR-H9544-A-0	H9544-AC	60"END PANEL, GREY FRAME, BROWN IN	1
1	E-UR-H9544-J-0	H9544-JD	60" TO 40" EXP PANEL TO JOIN 60"	1
1	E-UR-H9544-E-0	H9544-EB	FRONT DOOR FOR 40" CAB W 105" TO	1
1	E-UR-H9544-B-0	H9544-6B	60" REAR DOOR W LOCK, FULLY LOUVE	1

REVISION HISTORY BASIC PART NO: OTS11

ENG	DOC NUMBER	REV	SECTION A OF A	SECTION VARIATION INDEX	CHK'D	DESIGN	DATE	TITLE	FILE
---	INITIAL	A			M. ARCHIE	DES. ENG.: R. NELSON	14-SEP-79	TS11-A IN H9546 CAB	PL
---	TS11-C-MC001	B				REG. ENG.: R. NELSON	14-SEP-79		REV
						MFG. ENG.: J. SOUZA	30-SEP-79		G
						ASSEMBLY NUMBER:			EDIT #
						K-SR-TS11-C-0			6
						B-DD-TS11-C-0			

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ML2

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE	FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
1	D-AD-7017058-0-0	TS11 IN H9546 CAB	E/M				
	K-PL-7017058-0-DBP	TS11 IN H9546 CAB	E/M				
	D-AR-7017058-0-1	CONFIGURATION CONTROL					
	C-IA-7008288-0-0	CABLE ASSY	E/M				
	A-PS-3613210-0-0	LABEL, SERIAL TAG					
	C-MD-7422937-0-0	CHANNEL STANDOFF					
	D-MD-742215-0-0	BRACKET HORIZONTAL SUPPORT					
	A-SP-3617250-0-0	LABEL CAUTION					
	A-DC-7416197-0-0	LABEL UL					
	A-PS-3613211-0-0	LABEL CSA					
	D-MD-7422059-0-0	FRAME SUPPORT					
2	B-DD-H9546-0	CABINET ASSY	M				
3	B-DD-TS11-A-0	DRIVE AND FRAME ASSY	E/M				
4	B-DD-874-0	POWER CONTROL	E/M				
5	B-DD-H9544-L	TOP COVER	M				
6	B-DD-H9544-H	LEVELING SET	M				

TYPE: E ELECTRICAL M MECHANICAL E/M ELECTRO/MECHANICAL		TITLE TS11 IN H9546 CAB	SHEET 3 OF 3	SIZE CODE B DD	NUMBER 7017058-0	REV C
--	---	----------------------------	--------------	--------------------------	---------------------	----------

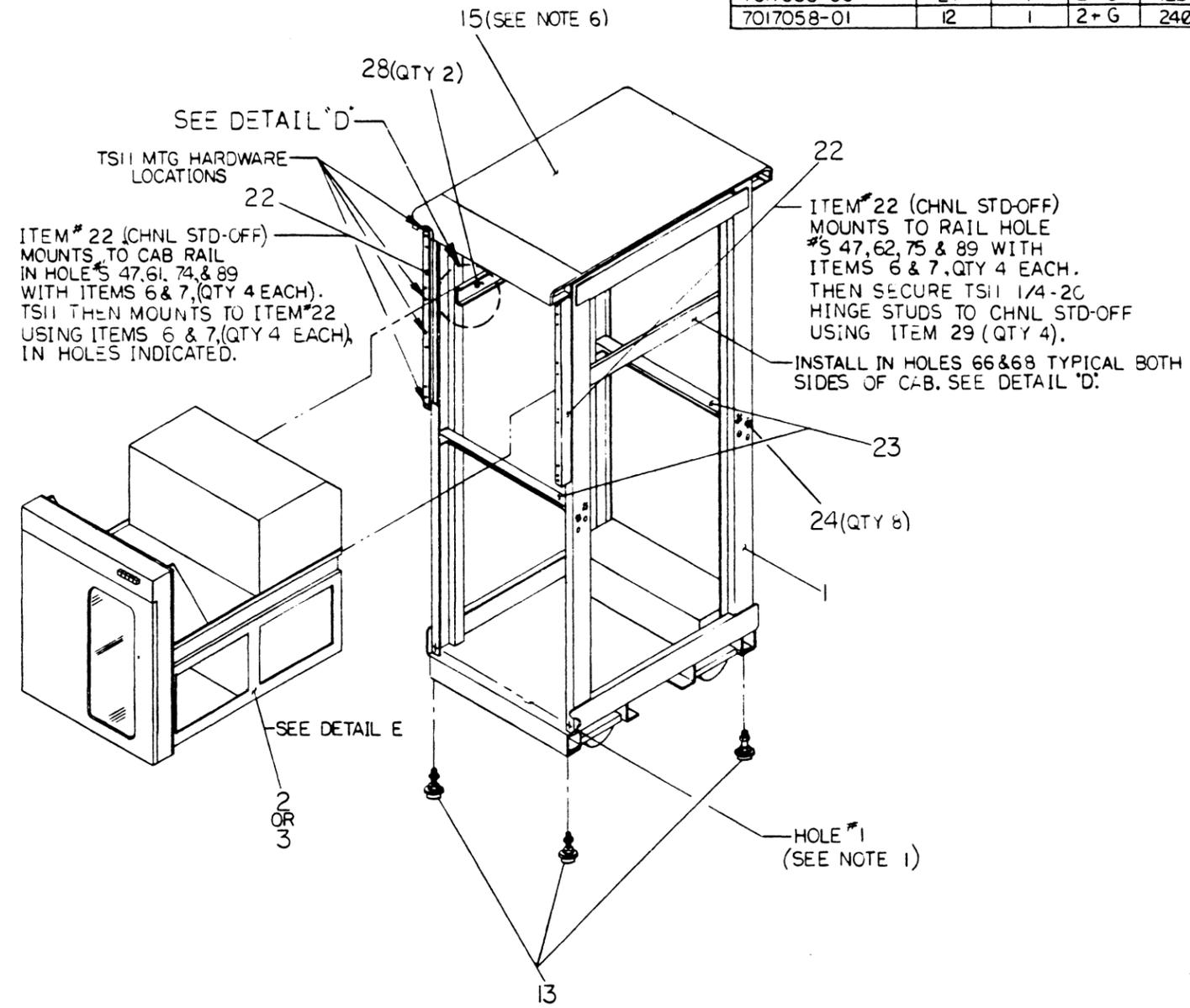
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0-0-8502102

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LEGEND					
MODEL/PART NO	AMPS	PHASE	WIRE	VOLTS	FREQ-HZ
7017058-00	24	1	2+G	120	50 / 60
7017058-01	12	1	2+G	240	50 / 60

- NOTES:
1. ALL HOLE LOCATIONS ARE FROM BOTTOM OF CAB WITH THE FIRST HOLE BEING HOLE #1.
 2. CONTROL MODULE AND INTERFACE CABLE ARE SUPPLIED WITH ITEM 2 OR 3. THE SLOT LOCATION FOR THE CONTROL MODULE TO BE DETERMINED AT SYSTEM LEVEL OF ASSEMBLY.
 3. INFORMATION FOR IDENTIFICATION LABEL TO BE OBTAINED FROM LEGEND.
 4. ITEM 17 TO JUNCTION OF TYPICAL LOCATION OF 874 POWER CONTROL OTHER END OF CABLE TO BE DETERMINED AT SYSTEM LEVEL OF ASSEMBLY.
 5. FOR CONFIGURATION CONTROL RULES SEE D-AR-7017058-0-1
 6. TOP COVER GROUND ATTACHES TO LEFT REAR RAIL HOLE #77 (SINGLE ANGLE EDGE).



DATE	REV	DESCRIPTION
9/22/79	1	TSII CAB ML 001 B
12 DEC 1979	2	ML 001
		R. A. NELSON
		TSII ML 002
		D. NELSON
		7017058 ML 001 D
		J. BLAIR

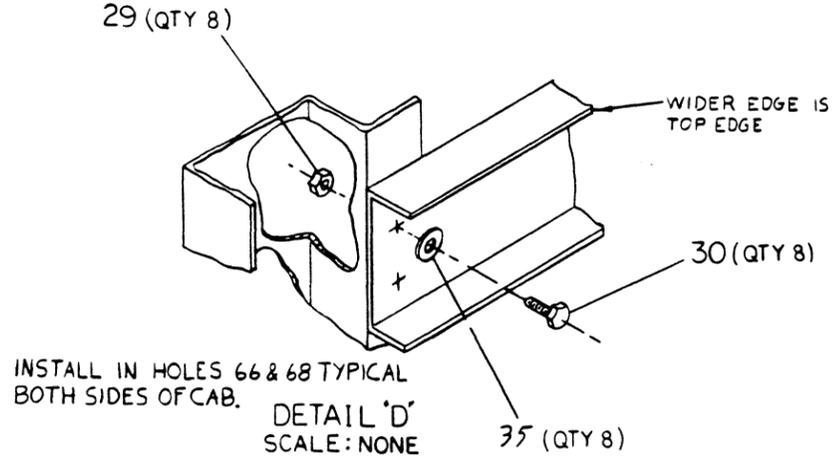
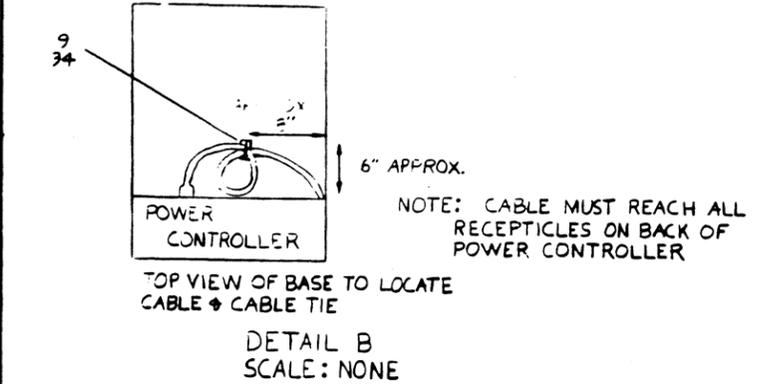
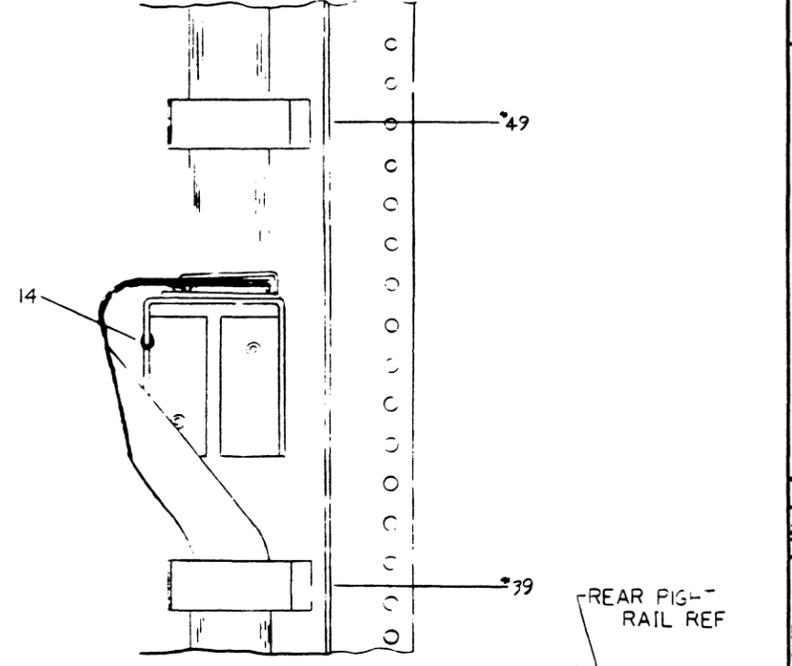
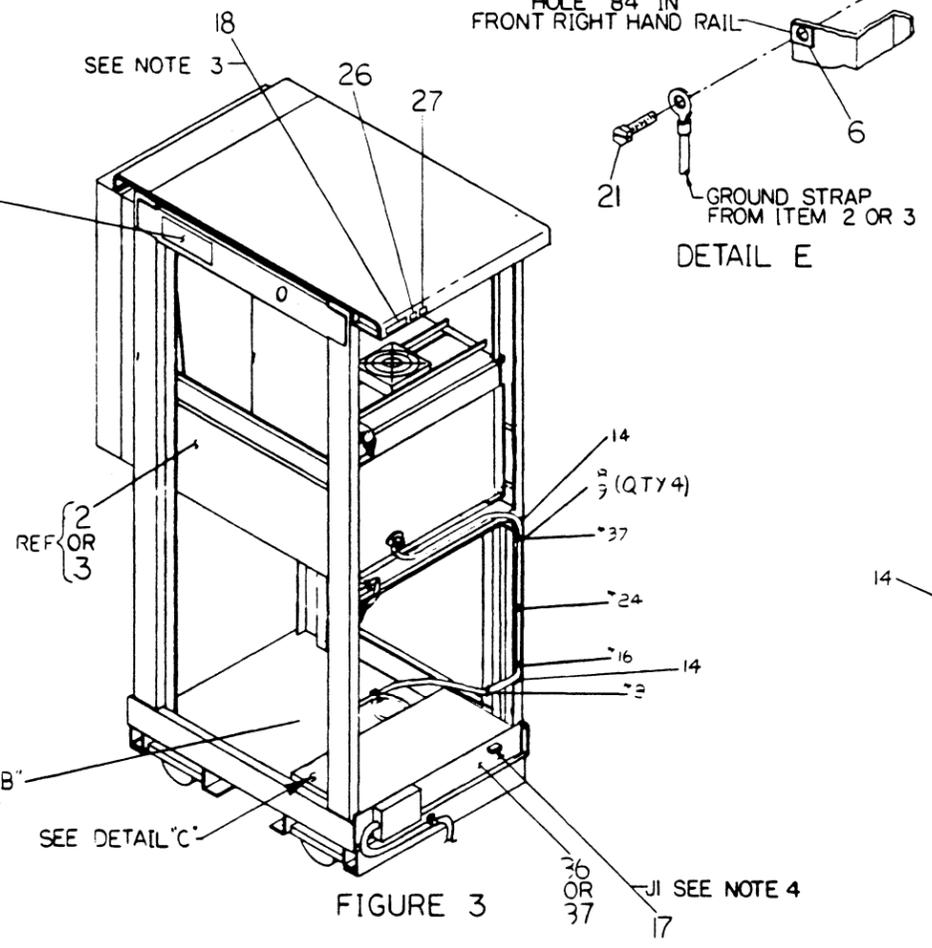
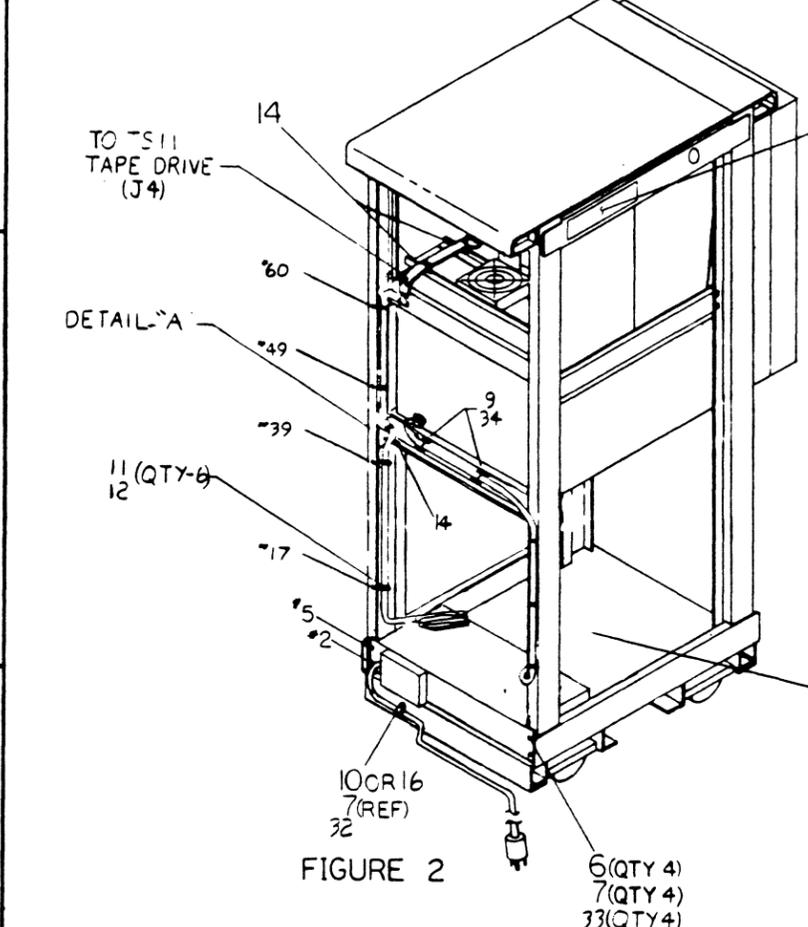
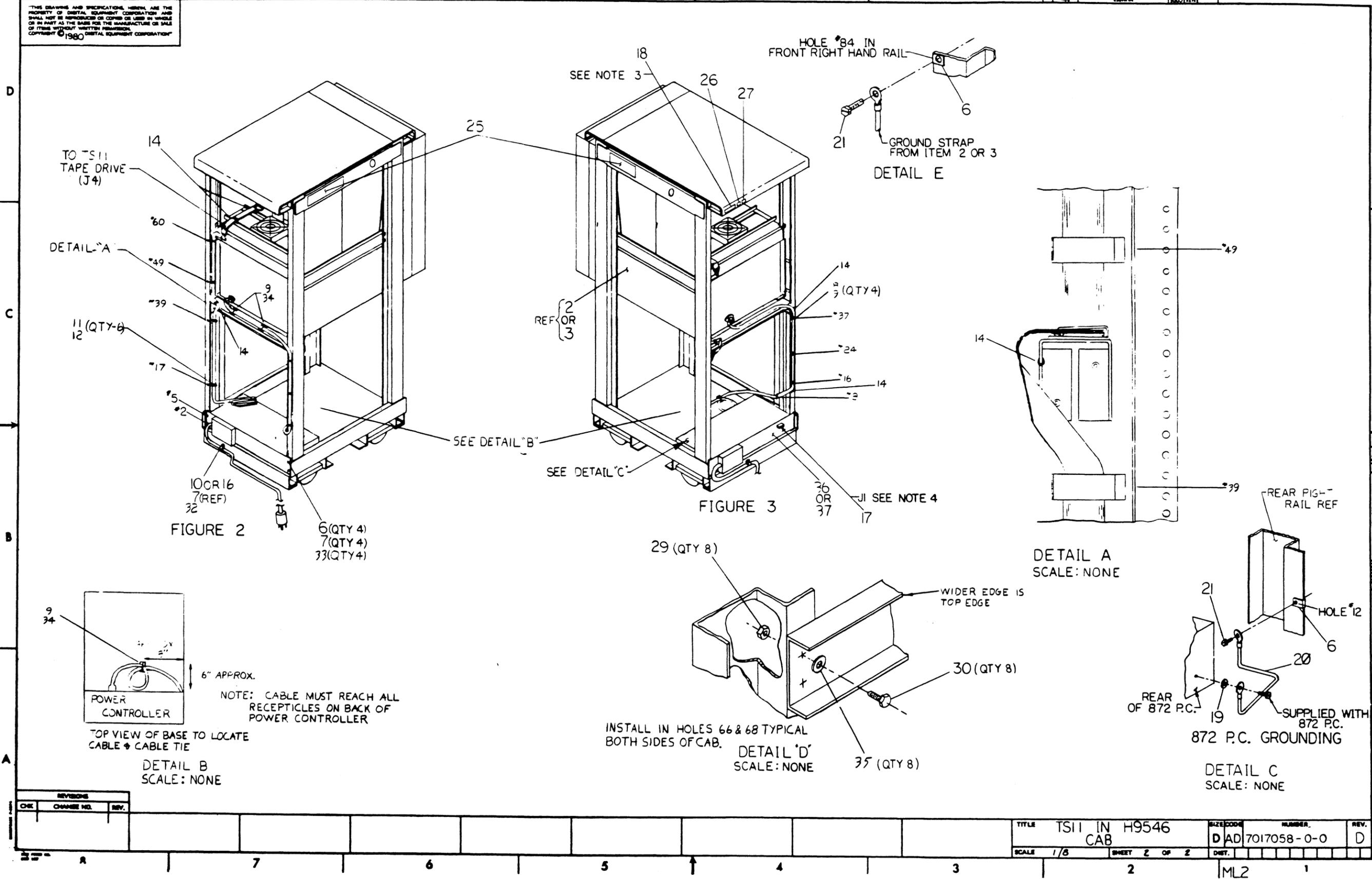
FOR PARTS LIST SEE K-PL-7017058-0-DBP

DESCRIPTION	DRAWING NO.	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)			
DIMENSION RANGE IN INCHES			
INCHES TOLERANCES	ANGLES TO 30°	APPLICABLE DIMENSION RANGE (CHECK ONE)	
X = ± .1	SURFACE QUALITY	OVER 0.2 TO 1.2	± .012
XX = ± .02		1.2 TO 4.0	± .010
XXX = ± .005		4.0 TO 12.0	± .008
		12.0 TO 48.0	± .006
		48.0 TO 88.0	± .004
THIRD ANGLE PROJECTION	DESIGNED BY H. GREKULA	DATE 15 JUNE 79	TITLE TSII IN H9546 CAB
DO NOT SCALE DRAWING	CHECKED BY F.H. KEYES JR.	DATE 20 OCT 79	
REMOVE BURRS AND BREAK SHARP CORNERS	DRAWN BY R.A. NELSON	DATE 9-7-79	
MATERIAL	PREP BY R.A. NELSON	DATE 9-7-79	
SEE PARTS LIST	WFL BY J. SOUSA	DATE 9-7-79	
FINISH	NEXT NUMBER B-DD-7017058-0		SCALE 28

ML2 1

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0-0-8 502102 2



REVISIONS		
CHK	OWNER NO.	REV.

TITLE	TS11 IN H9546 CAB	SIZE CODE	DAD	NUMBER	7017058-0-0	REV.	D
SCALE	1/8	SHEET	2 OF 2	DET.			

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION	
					00	01
1	1	E-UA-H9546-F-0	H9546-FB	60" CROSS PRODUCTS CAB FRAME ASS	1	1
2	2	E-UA-TS11-A-0	OTS11-AA	TS04-AA & TS11 45IPS NRZI MAGTAP	1	-
3	3	E-UA-TS11-A-0	OTS11-AB	TS04-AB 25FT. SERIAL CABLE,M7982	-	1
4	4	E-UA-872-0-0	00872-N	*** THIS ITEM IS NOT USED ***	-	-
5	5	E-UA-872-0-0	00872-B	*** THIS ITEM IS NOT USED ***	-	-
6	6		9007786-00	RETAINER, U-NUT, 10-32	18	18
7	7		9009700-00	SCREW,SEMS TRUSS PHIL 10-	17	17
8	8		9007867-00	MOUNT, PUSH,CABLE TIE	4	4
9	9		9007031-00	TIE,CABLE BUNDL,DIA 0- 3/4"=101	7	7
10	10		9007082-00	CLAMP,CABLE,SCREW MTD. 5/16"	0	1
11	11	A-PS-1215843-0-0	1215843-00	CLIP,FLAT CABLE W/ADHESIVE BK	6	6
12	12	A-PS-1213716-0-0	1213716-01	SPACER,FOAM 1/2	6	6
13	13	E-UA-H9544-H-0	H9544-HB	KIT OF 4 LEVELERS	1	1
14	14		9009718-01	GROMMET,STRIP STYRENE	5	5
15	15	E-UA-H9544-L-0	H9544-LB	TOP COVER,SINGLE WIDTH 60" CAB	1	1
16	16		9007087-00	CLAMP,CABLE,SCREW MTD. 5/8 "	1	0
17	17	C-IA-7008288-0-0	7008288-3F	CABLE ASSY	1	1
18	18	A-PS-3617674-0-0	3617674-00	LABEL,SERIAL & POWER,UNIVERSAL	1	1
19	19		9007651-00	WASHER,LOCK EXTERNAL STEEL	1	1
20	20	A-PS-1213756-0-0	1213756-07	GROUND STRAP	1	1
21	21		9010136-00	SCREW,SEMS HEX 10-	2	2
22	22	C-MD-7422937-0-0	7422937-00	CHANNEL,STANDOFF	2	2
23	23	D-MD-7422215-0-0	7422215-00	BRACKET HORIZONTAL SUPPORT (SING	2	2
24	24		9009595-00	RIVET,BLIND DOME 0.250DX0.500	8	8
25	25	A-PS-3617250-0-0	3617250-00	LABEL,CAUTION,STABILITY H9542	2	2
26	26	A-DC-7416197-0-0	7416197-01	DECAL	1	1
27	27	A-PS-3613211-0-0	3613211-01	DECAL,CLEAR PREPRINTED CSA 1-1/4	1	1
28	28	D-MD-7422059-0-0	7422059-00	FRAME SUPPORT	2	2
29	29		9008203-00	NUT,KEP 1/4-20X 7/16AF	12	12
30	30		9006242-09	SCREW,MACH HEX PLN 1/4-	8	8

REVISION HISTORY		BASIC PART NO: 7017058		DRN:	P. TESLA	DATE: 14-SEP-79	D I G I T A L			
ENG	ECD NUMBER	REV	SECTION A OF A	CHK'D:	F. H. KEYES	DATE: 15-SEP-79	TITLE PARTS LIST			
	INITIAL	A	SECTION. VARIATION INDEX				TS11 IN H9546 CAB			
RN	TS11-C-ML001	B	[A] 00,01							
D.N	TS11-C-ML002	C								
JB	7017058-ML001	D	[B]	DES.ENG.:	R. NELSON	DATE: 14-SEP-79	DOCUMENT NUMBER			
			[C]							
			[D]	RESP.ENG.:	R. NELSON	DATE: 14-SEP-79	SIZE CODE NUMBER REV			
			[E]				K	PL	7017058-0-DBP	D
			[F]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:	FILE NAME:		EDIT #	
				D-AD-7017058-0-0		B-DD-7017058-0-0	Z0929D.FLS		25	

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LAUTOMATED BY PRTLST.3L(36)

PARTS LIST

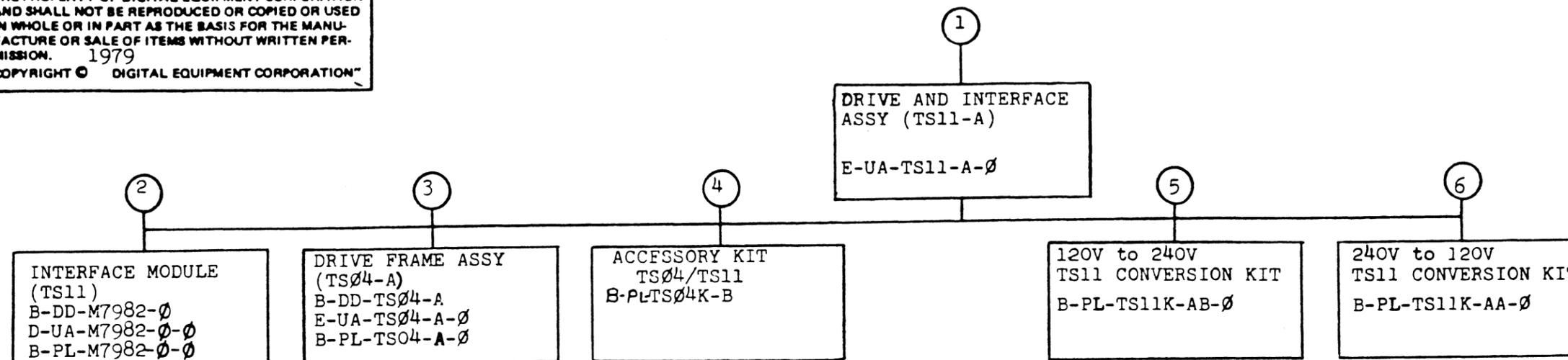
SHEET A2 OF A2

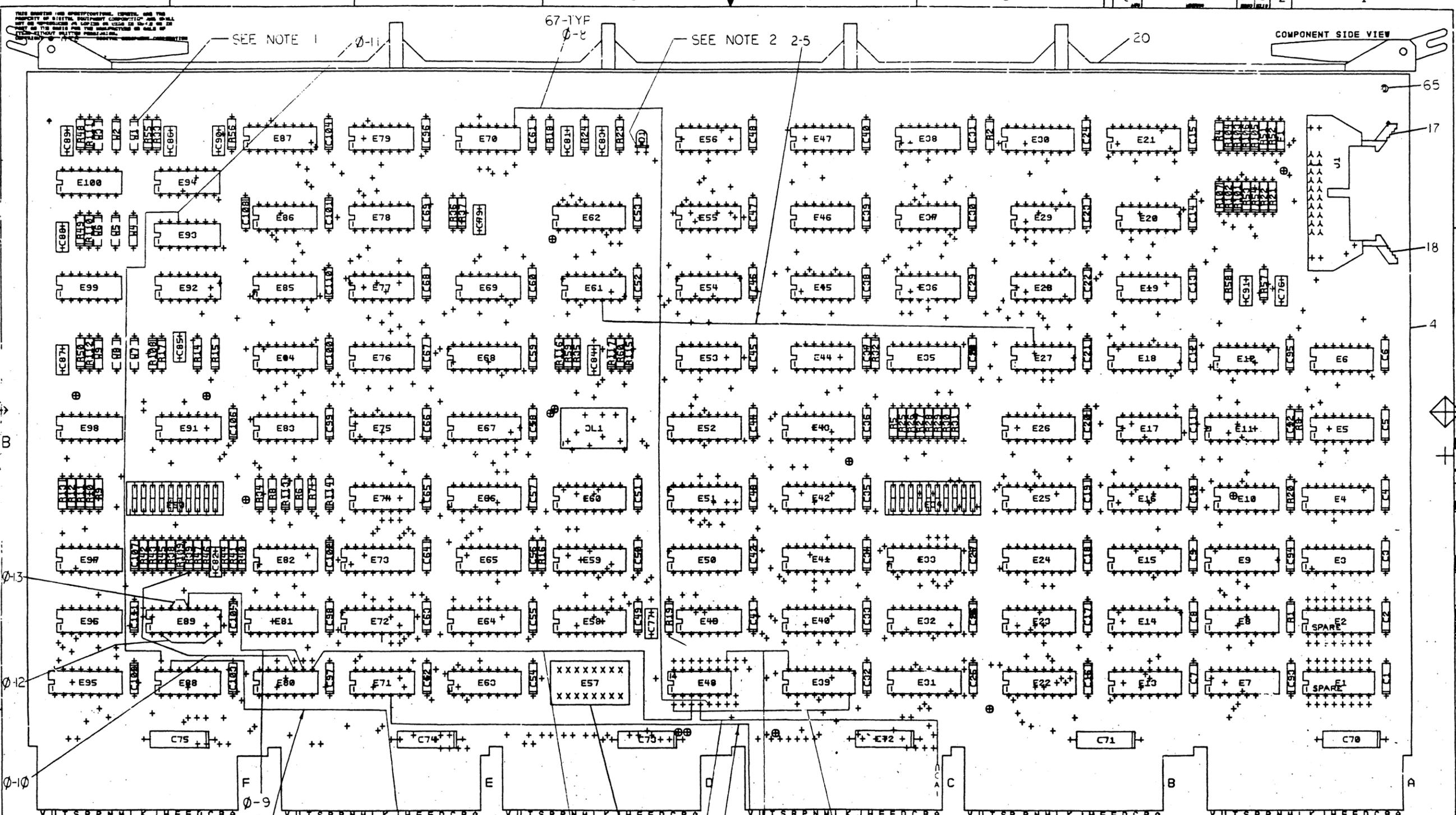
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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION	
					00	01
31	31		9007792-00	*** THIS ITEM IS NOT USED ***	-	-
32	32		9006664-00	WASHER,FLAT SST	1	1
33	33		9006668-00	WASHER,FLAT SST	4	4
34	34		9008264-00	MOUNT, CABLE TIE, ADHESIVE BACKE	3	3
35	35		9008415-00	WASHER,FLAT SST	8	8
36	36	E-UA-874-0-0	00874-D	120V 24A FILTERED POWER CONT,6 S	1	-
37	37	E-UA-874-0-0	00874-B	220-240V 12A FILTERED PWR CONT,6	-	1

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							TS11 IN H9546 CAB		K	PL	7017058-0-DRP	D

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SEE NOTE 1

SEE NOTE 2 2-5

COMPONENT SIDE VIEW

NOTES: 1. RI01 THRU RI08 AND RI10 THRU RI17 ARE OPTIONAL. DO NOT INSTALL: W1, W3, W5 THRU W8 & F1 ALSO.
 2. THIS IS FLAT SIDE OF LED.
 3. FOR REWORK, SEE SHEETS 1, 2, 5 & 6 OF THIS DWG.

CHG	NO	REV	DATE	BY	APP
1	1	1			
2	1	1			
3	1	1			

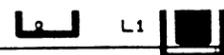
ETCH REV. 0-P2
P.C. DESIGN ORTR BRSE REV. DL2 & CM2

SIGNATURES	DATE	TITLE
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CHK'D. <i>[Signature]</i>	1/1/77	
ENG. <i>[Signature]</i>	1/1/77	
PROJ. ENG. <i>[Signature]</i>	1/1/77	
PROD. <i>[Signature]</i>	1/1/77	

UNIBUS TO SERIAL BUS CONTROLLER

SCALE 2/1	SIZE CODE	NUMBER	REV
SHT. 1 OF 6	D UA	M7982-0-0	D
NEXT HIGHER ASSY. B-00-M7982-0			

1 MS# 31000



7

6

5

4

3

D 0-0-2862W 2

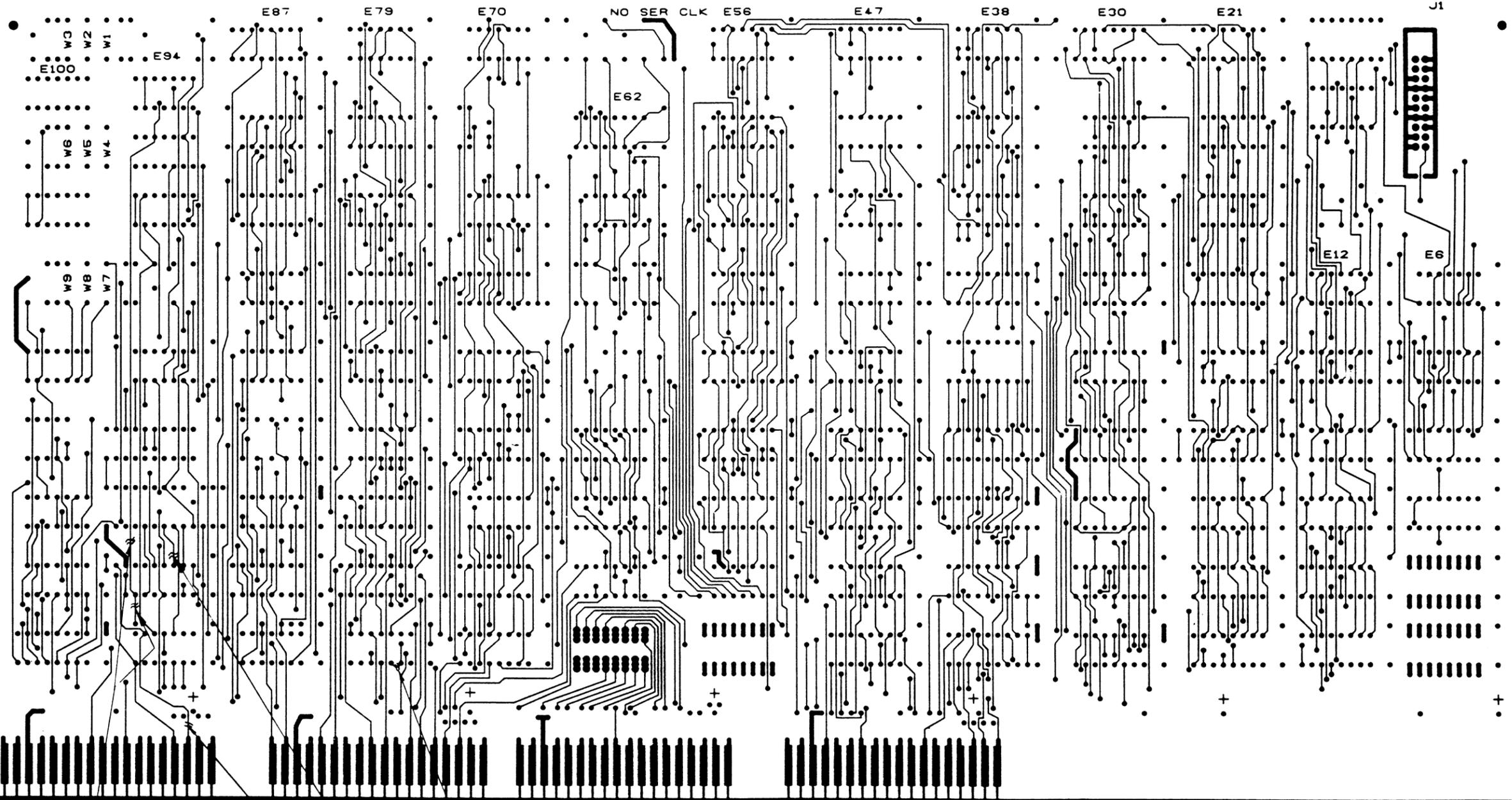
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M7982 5012174D-P2 LAYER 1

CS*ABCDEFGHIJKLMNPRS

SIDE 1

digital J1



A

0-1

-2-2

7-

-2-1

A

8

7

6

5

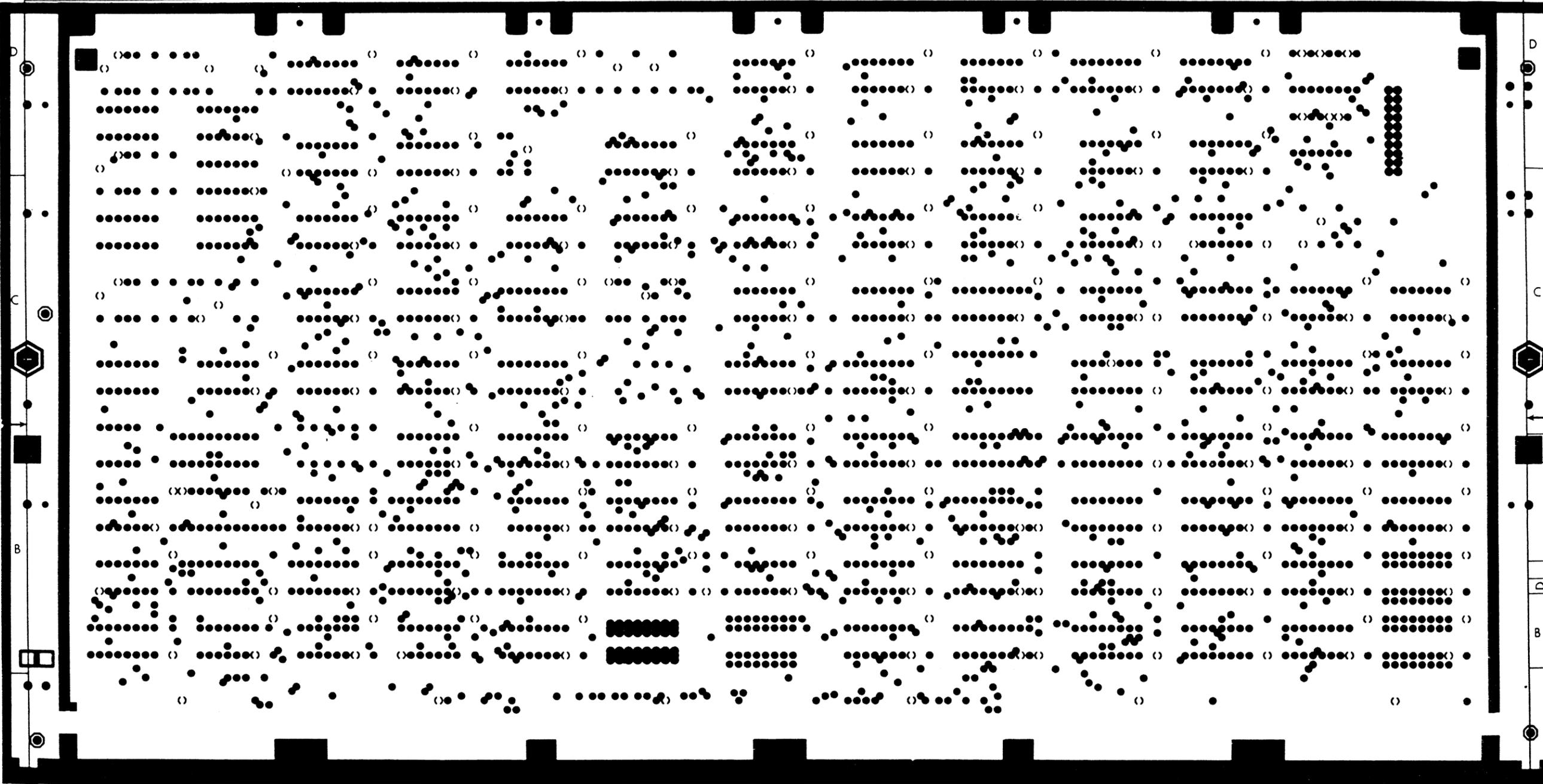
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3

2

1

UNIBUS TO SERIAL BUS CONTROLLER						DATE	REV	QTY	UNIT	PRICE	TOTAL
2	1	2	6								
D UA M7982-0-0											



8

7

6

5

4

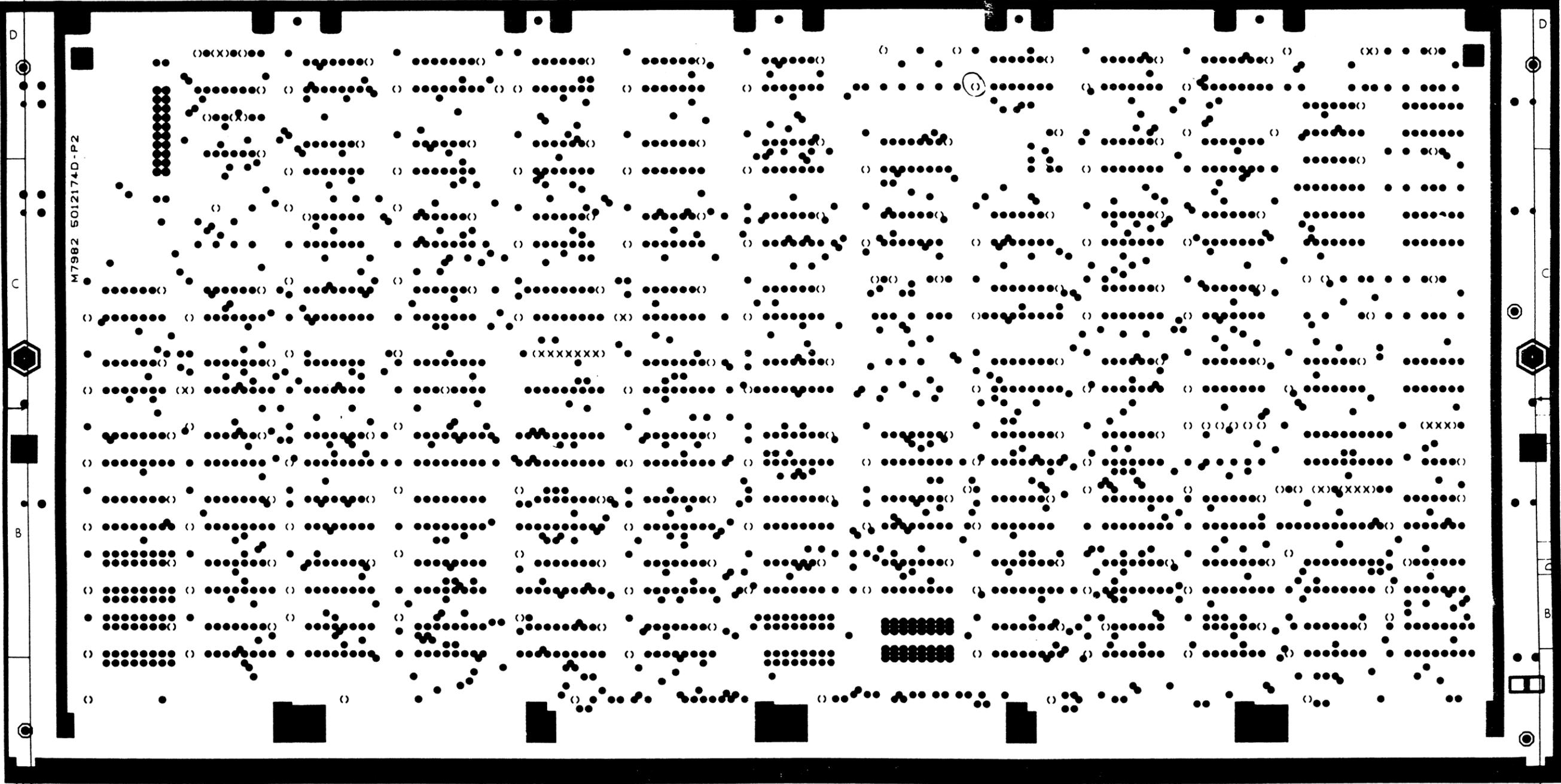
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D U A M7982-0-0 D 2

1

E 834AJ

M7982 5012174D-P2



UNIBUS TO SERIAL BUS CONTROLLER
 D U A M7982-0-0 D
 2/1 4 6

8

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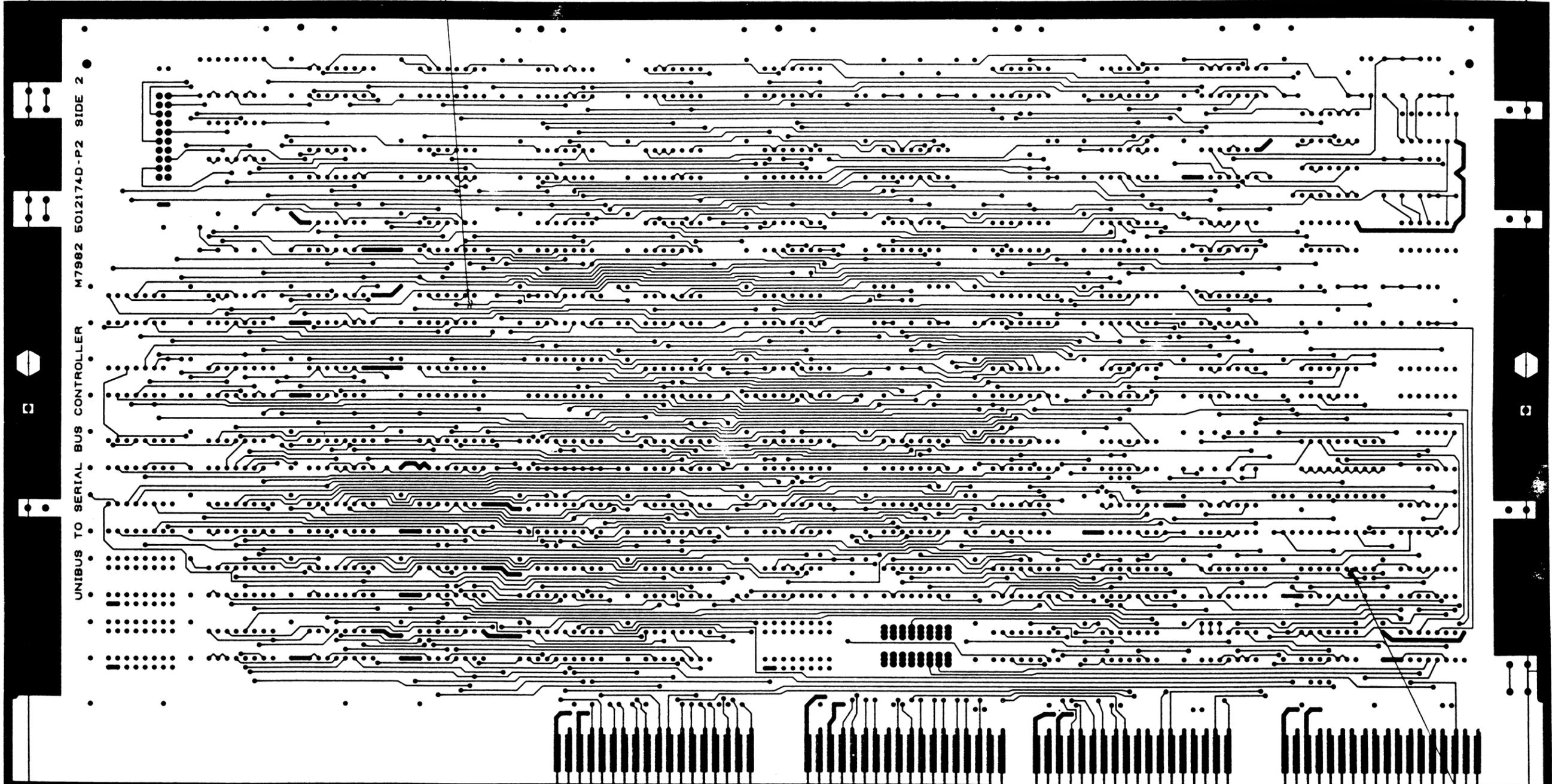
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4

3

2

1



M7982 5012174D-P2 SIDE 2

UNIBUS TO SERIAL BUS CONTROLLER

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FIRST RELEASE

ETCH CUTS, SIDE 1:

- Ø-1. CUT ETCH AWAY FROM E89-2 (BOTH SIDES).
- Ø-2. CUT ETCH AWAY FROM E89-11.

ETCH CUTS, SIDE 2:

- Ø-3. CUT ETCH AWAY FROM E89-14.

WIRE ADDS, SIDE 1:

- Ø-4. ADD WIRE FROM E48-1 TO E39-8.
- Ø-5. ADD WIRE FROM E48-8 TO E39-16.
- Ø-6. ADD WIRE FROM E48-3 TO E8Ø-8.
- Ø-7. ADD WIRE FROM E48-4 TO CA1.
- Ø-8. ADD WIRE FROM E48-5 TO E7Ø-8.
- Ø-9. ADD WIRE FROM E89-12 TO E8Ø-9.
- Ø-10. ADD WIRE FROM E8Ø-1Ø TO R39 (BOTTOM).
- Ø-11. ADD WIRE FROM PTH BELOW E89-2 TO E93-12.
- Ø-12. ADD WIRE FROM E89-2 TO E89-8.
- Ø-13. ADD WIRE FROM E89-14 TO E89-12.

ECO *2

ETCH CUTS, SIDE 1:

- 2-1 CUT ETCH BETWEEN E71-5 AND E71-6.
- 2-2 CUT ETCH AWAY FROM FC1.

ETCH CUTS, SIDE 2:

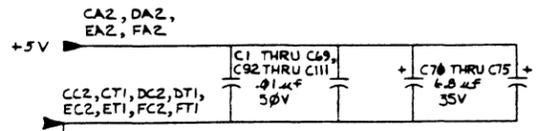
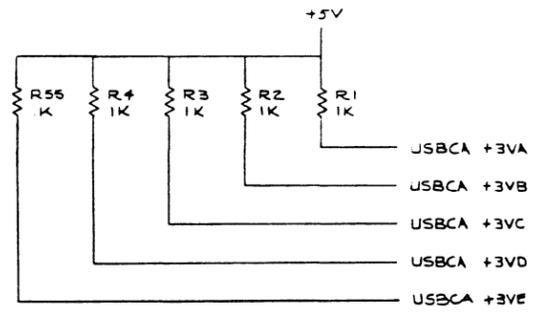
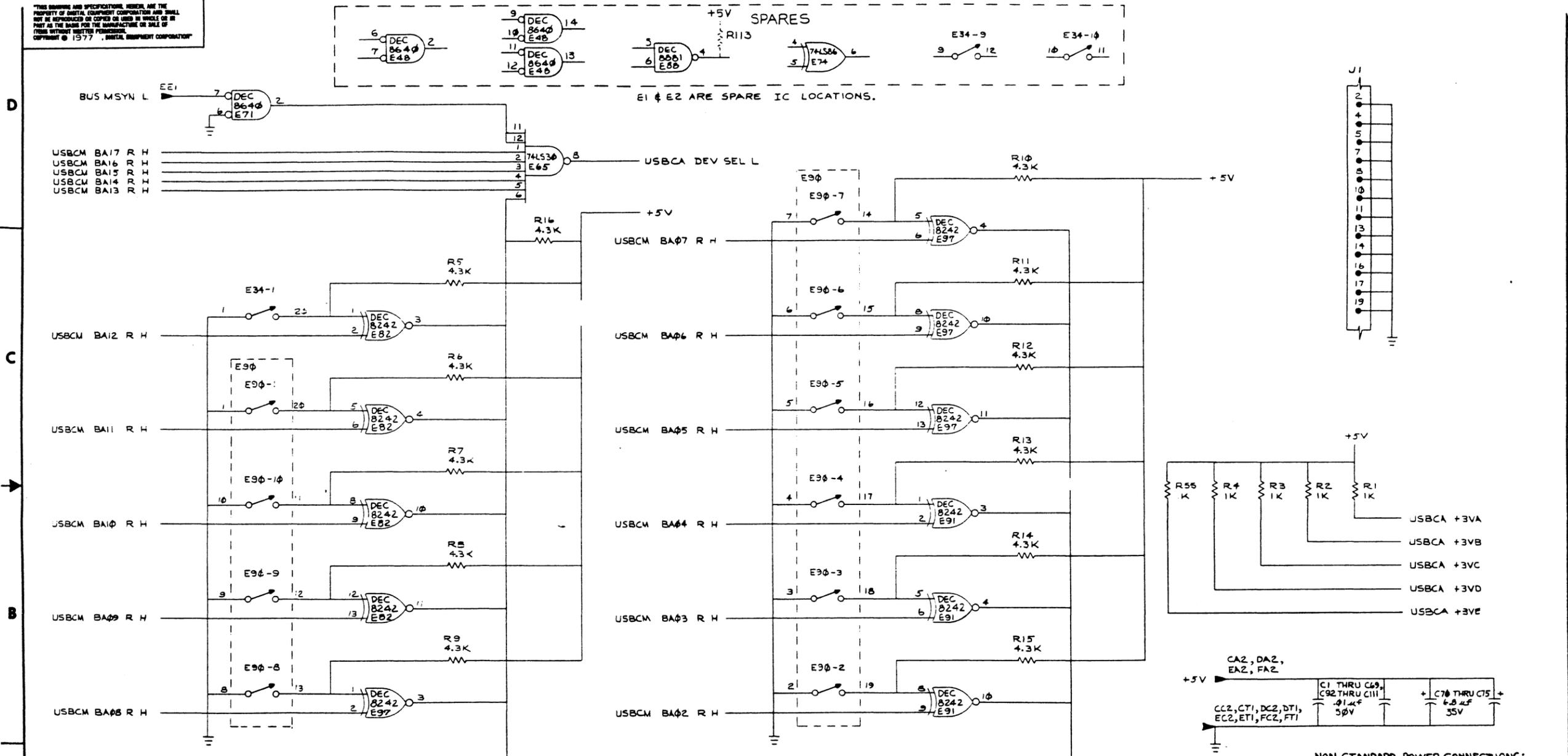
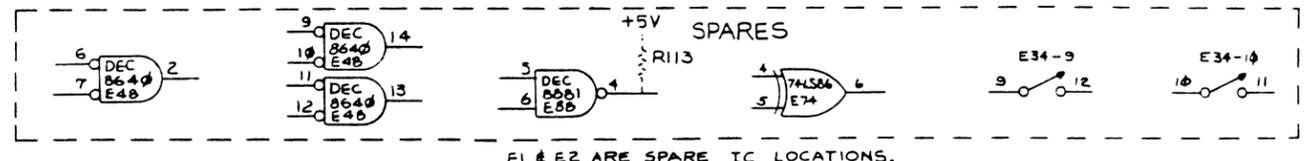
- 2-3 CUT ETCH FROM E27-12 TO GROUND. CUT AT FEEDTHROUGH NEAREST PIN 12. (ETCH FROM PIN 12 TO FEEDTHROUGH RUNS UNDER CHIP.)

WIRE ADDS SIDE 1

- 2-4 ADD WIRE FROM E71-5 TO CV1.
- 2-5 ADD WIRE FROM E27-12 TO E61-5.
- 2-6 ADD WIRE FROM E88-13 TO EJ1.

REVISIONS		
CHK	CHANGE NO.	REV.

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NON-STANDARD POWER CONNECTIONS:

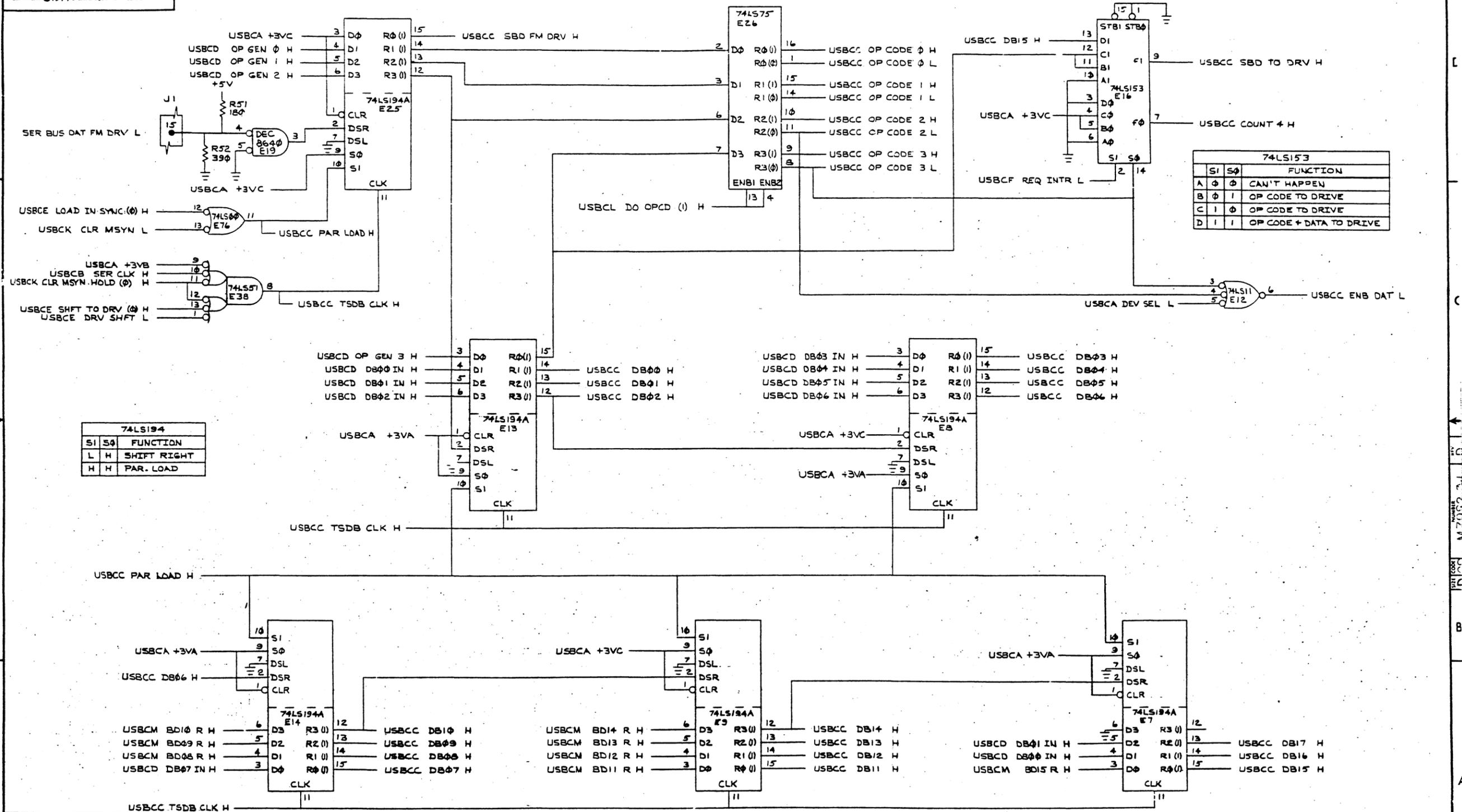
IC TYPE	+5V	GND
DEC 8640	8	1
74LS75	5	12

SWITCH	BAXX	8242 OUT
ON	L	H
ON	H	L
OFF	L	L
OFF	H	H

REV	D
CHG	1
CHK	1
DATE	11/17/77
BY	P. HINZELMAN
APP	

ADDRESS DECODE		SPC SLOT	
DRN. K. Hedges	FIRST USED ON	TS11	
CHK'D	11/17/77	TITLE	
ENG. J. Hedges	11/17/77	(USBCA)	
PROJ. ENG. J. Hedges	11/17/77	UNIBUS TO SERIAL	
NEXT HIGHER ASSY.		BUS CONTROLLER	
SCALE	TS11	SIZE CODE	NUMBER
SHEET 1 OF 12	DIST.	D CS	M7982-0-1
		REV	D

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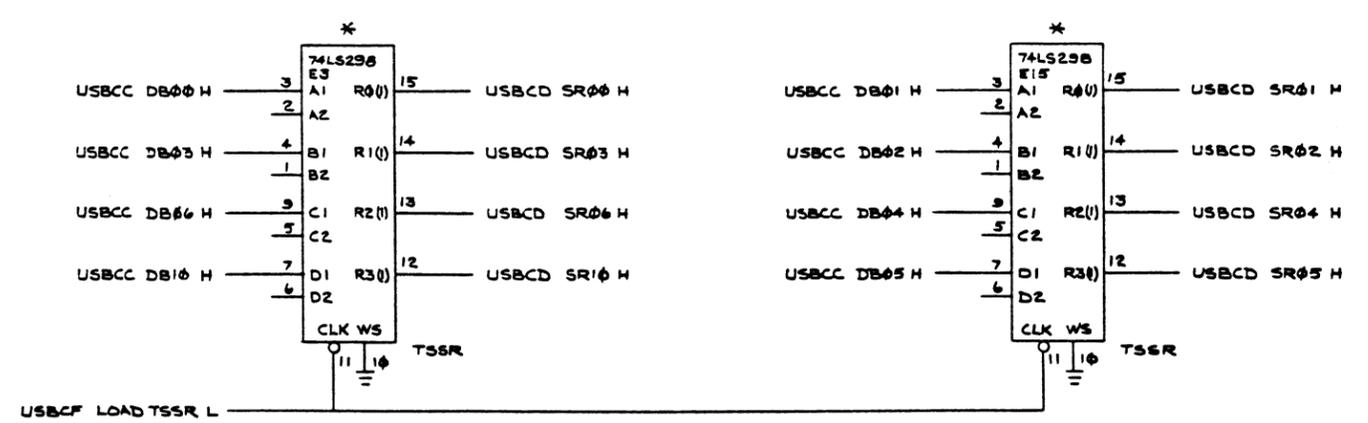
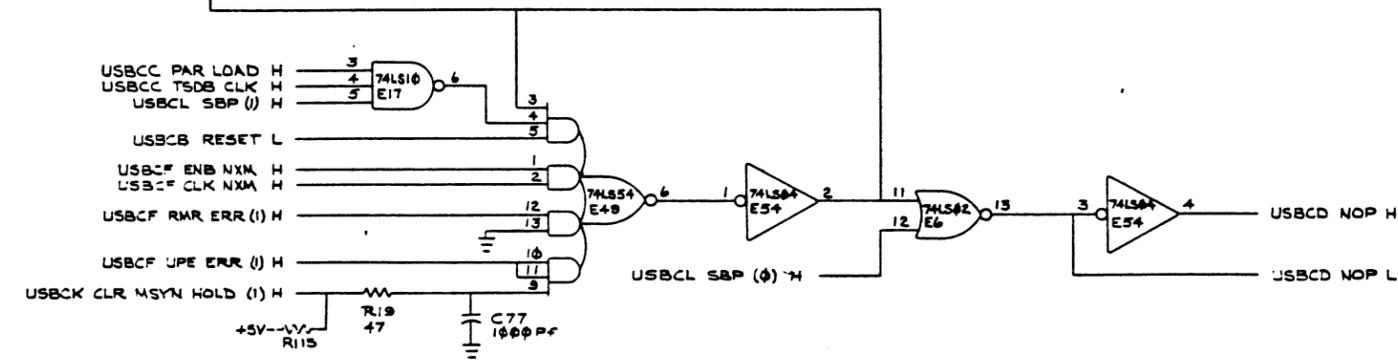
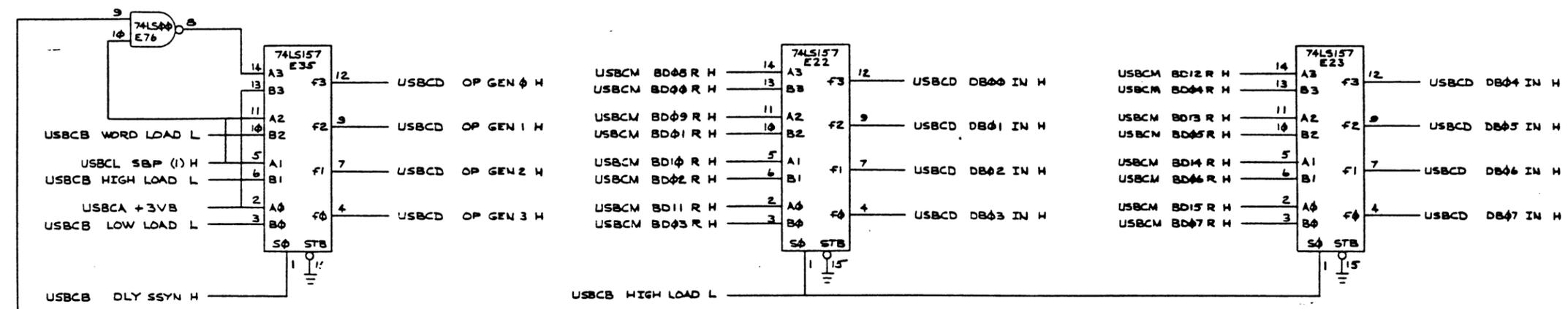
74LS194		
SI	S0	FUNCTION
L	H	SHIFT RIGHT
H	H	PAR. LOAD

74LS153		
SI	S0	FUNCTION
A	0	CAN'T HAPPEN
B	0	OP CODE TO DRIVE
C	1	OP CODE TO DRIVE
D	1	OP CODE + DATA TO DRIVE

REVISIONS		
CHK	CHANGE NO.	REV.

COUNT SELECTOR, OP CODE LATCH, DATA BUFFER (TSDB)		SPC SLOT	
TITLE UNIBUS TO SERIAL BUS CONTROLLER (USBCC)		SIZE CODE DCS	NUMBER M7982-0-1
SCALE	SHEET 3 OF 12	DIST.	REV. D

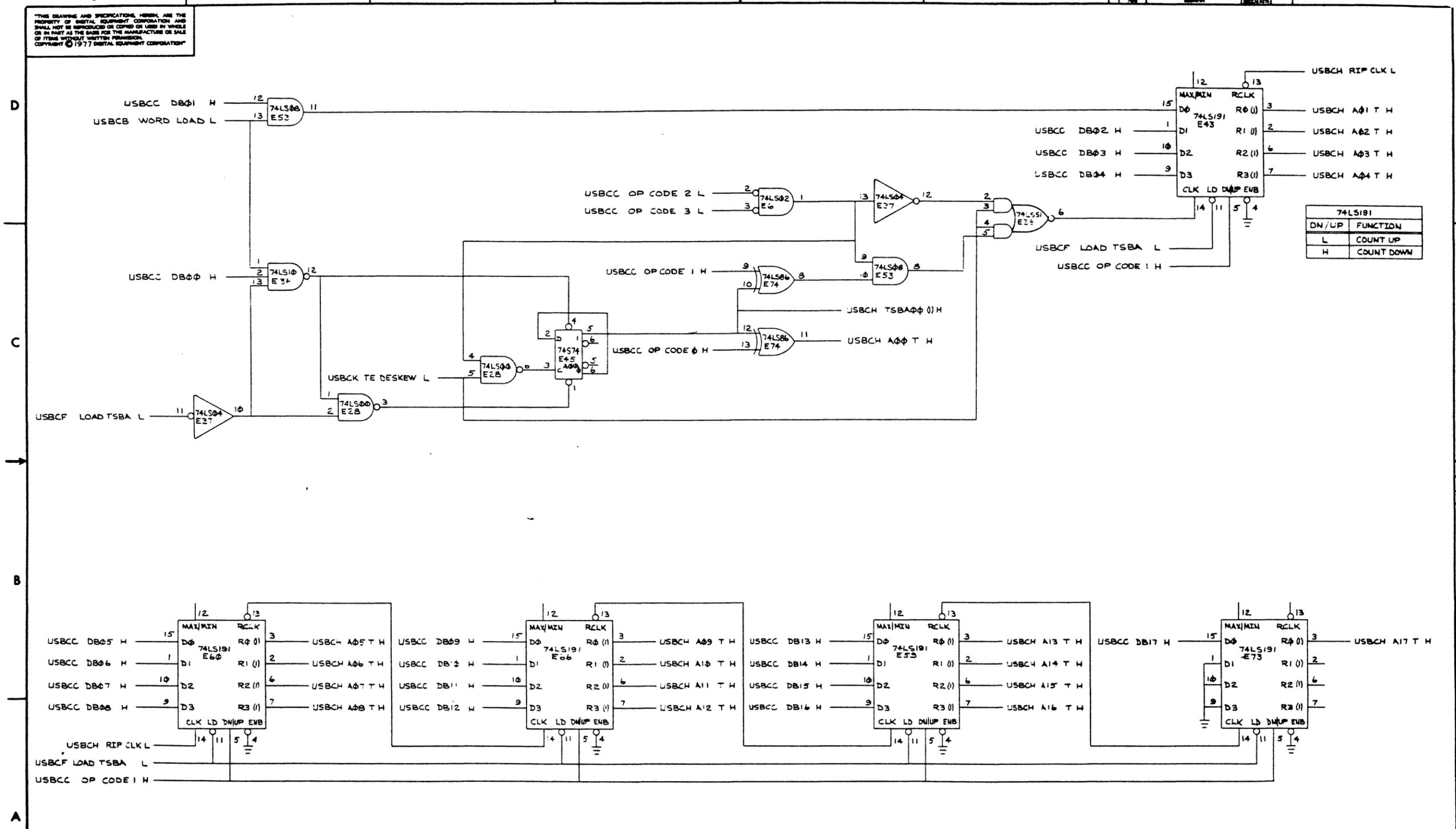
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* THESE 8 BITS OF THE STATUS REGISTER ARE FOR SOFTWARE PURPOSES ONLY AND HAVE NO EFFECT ON THE TS11. THEIR MEANING WILL VARY ACCORDING TO THE TYPE OF DRIVE USED.

REVISIONS		
CHK	CHANGE NO.	REV.

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REVISIONS		
CHK	CHANGE NO.	REV.

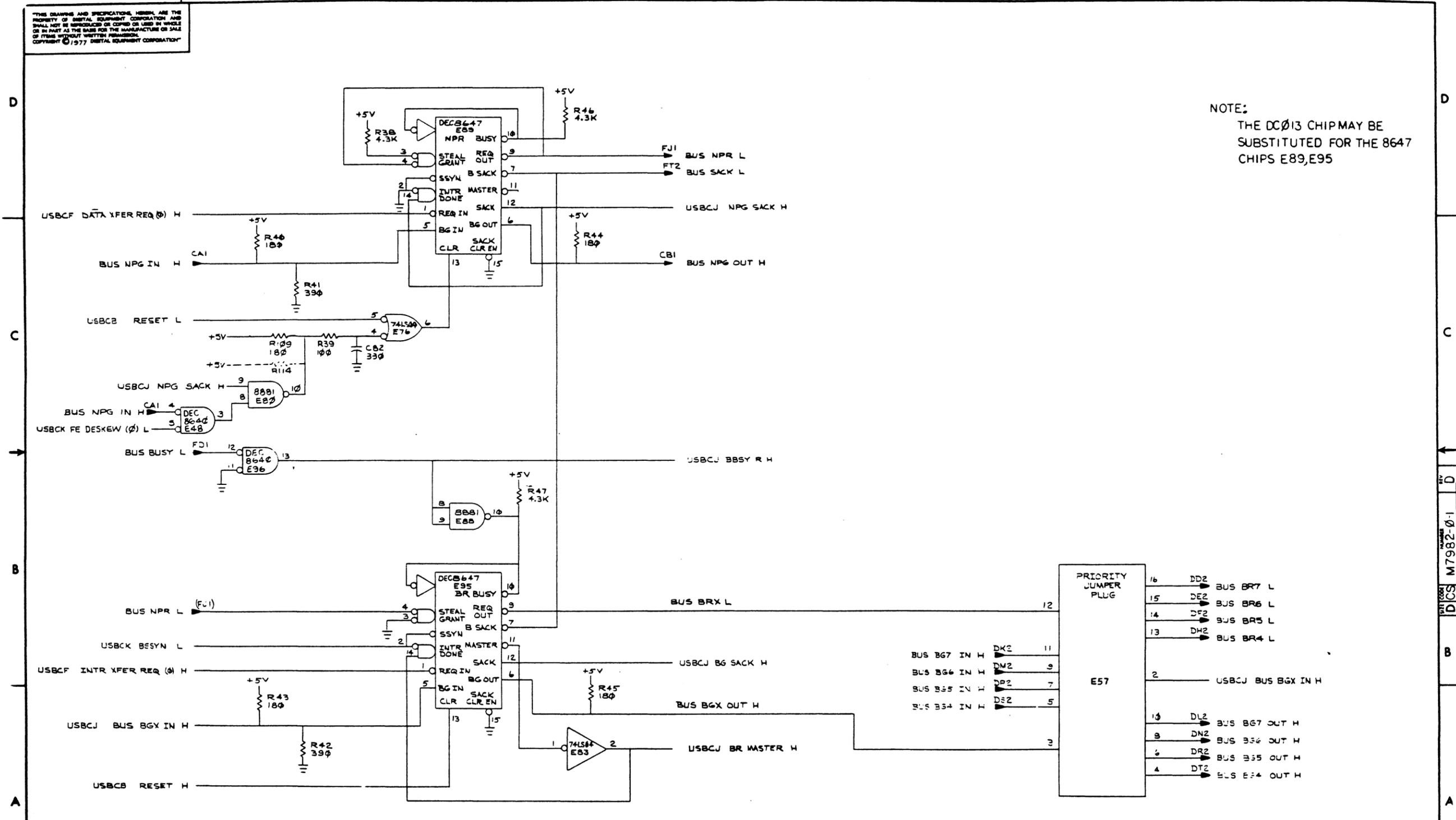
ADDRESS REG. (TSBA) SPC SLOT

TITLE	UNIBUS TO SERIAL BUS CONTROLLER (USBCH)	SIZE/CODE	D CS	NUMBER	M7982-0-1	REV.	D
SCALE		SHEET	7 OF 12	DIST.			

REV. D M7982-0-1 DCS

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NOTE:
THE DC013 CHIP MAY BE
SUBSTITUTED FOR THE 8647
CHIPS E89,E95

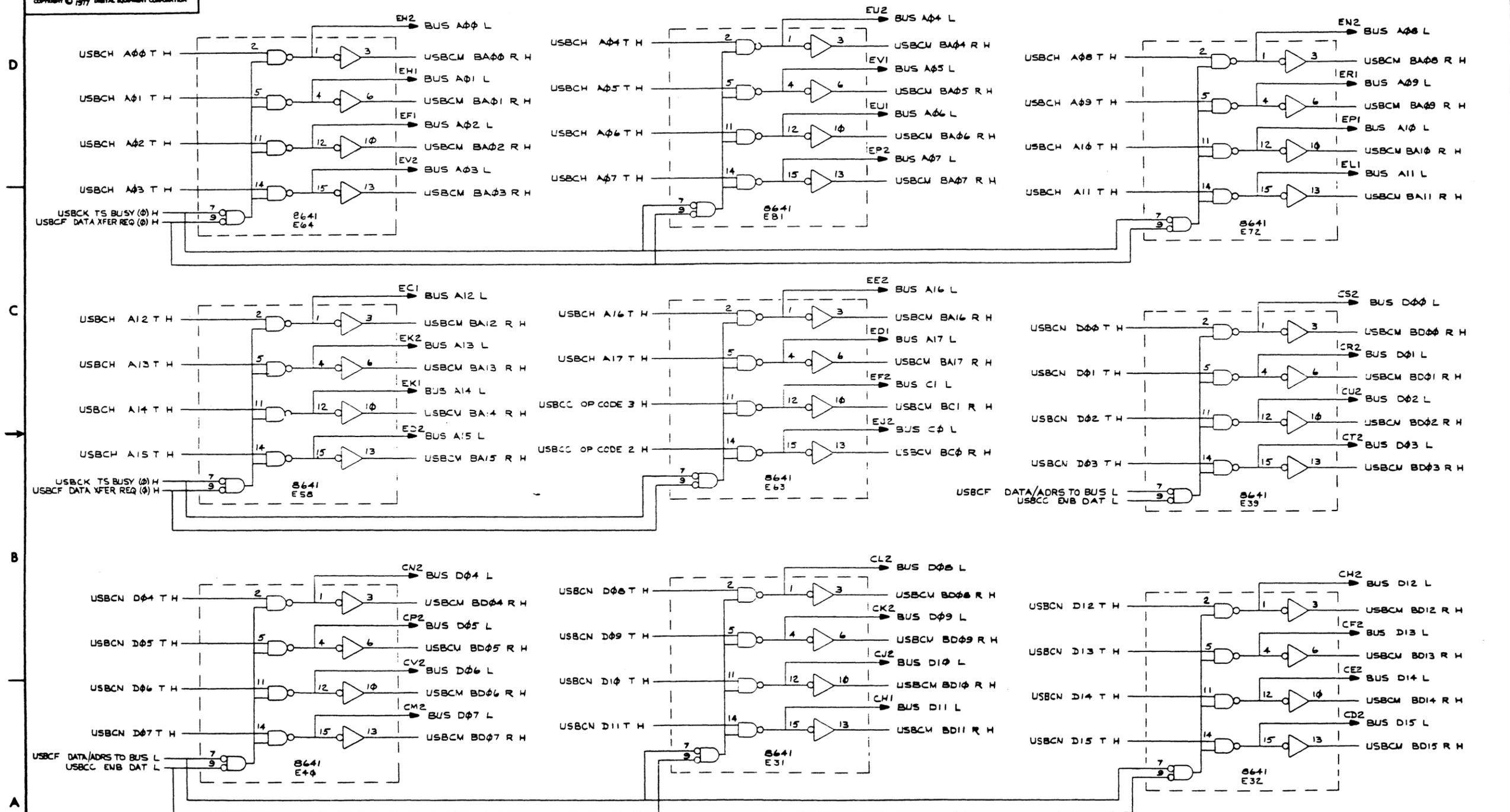


D 1-0-2862M CS D 2

REVISIONS		
CHK	CHANGE NO.	REV.

UNIBUS CONTROL, SACK, GRANTS, REQUESTS		SPC SLOT	
TITLE UNIBUS TO SERIAL BUS CONTROLLER (USBCJ)		SIZE CODE DCS	NUMBER M7982-0-1
SCALE	SHEET 8 OF 12	DIST.	

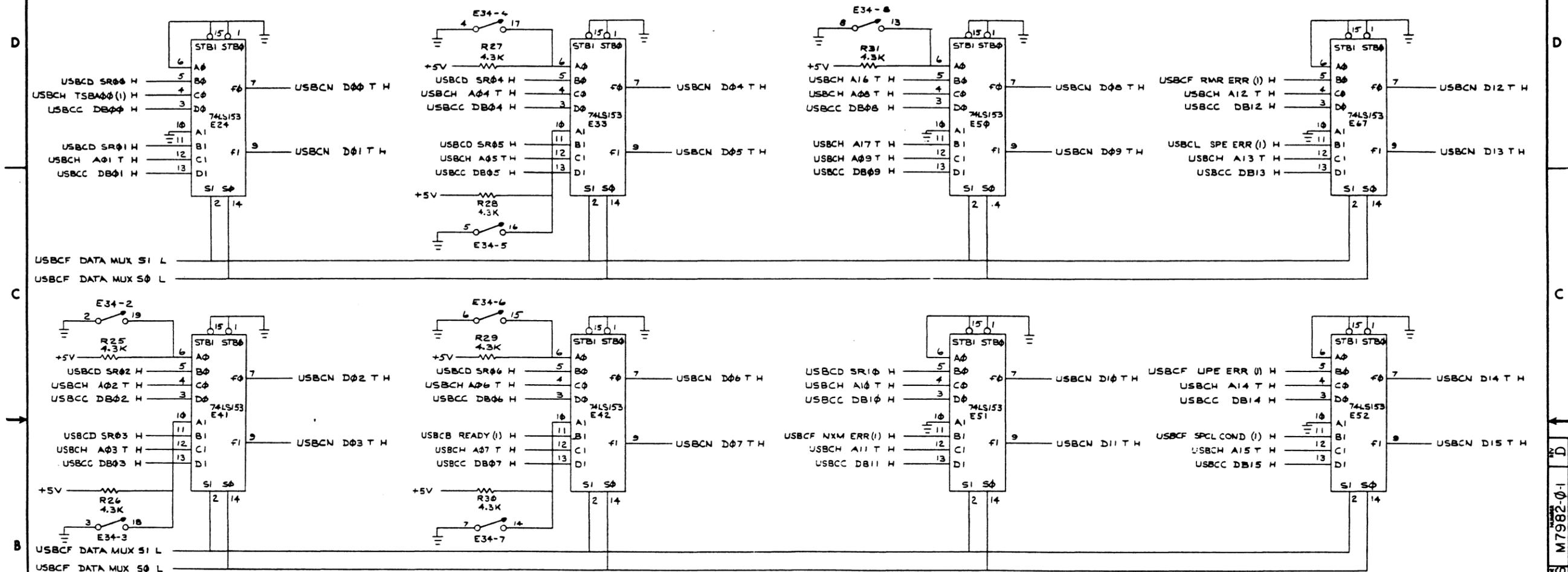
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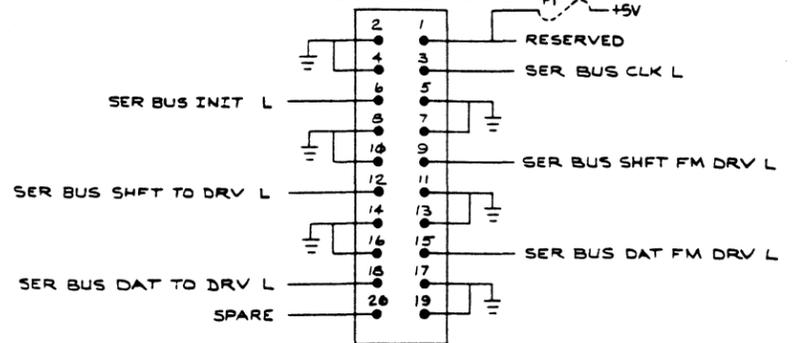
REVISIONS		
CHK	CHANGE NO.	REV.

REV D DCS M7982-0-1

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REFERENCE ONLY - CONN J1 PIN ASSIGNMENTS



74LS153		FUNCTION
A	0 0	VECTOR TO BUS
B	0 1	TSSR TO BUS
C	1 0	TSBA TO BUS
D	1 1	TSDB TO BUS

REF. DATA MUX., VECTOR GEN. SPC SLOT

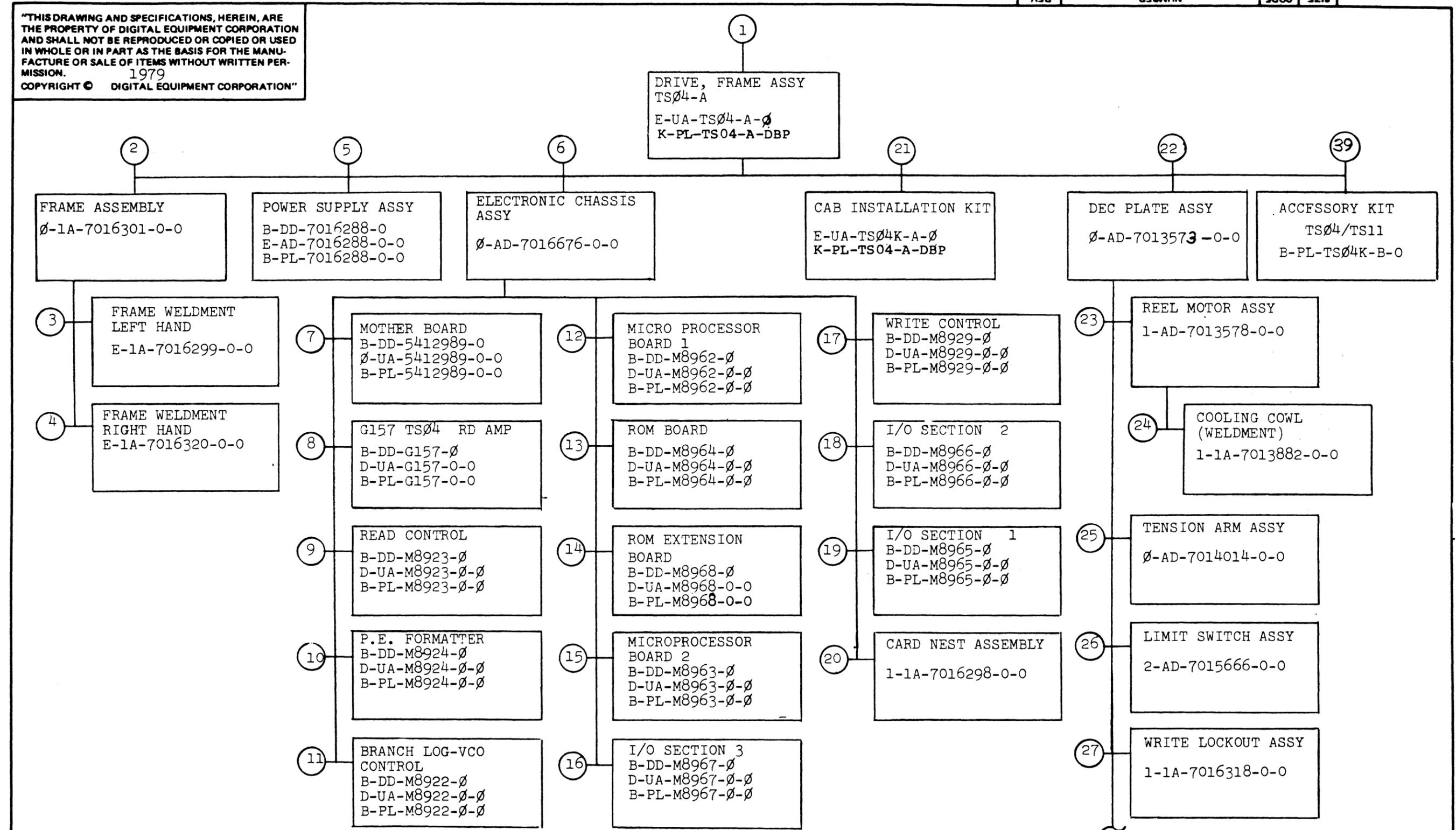
REVISIONS		
CHK	CHANGE NO.	REV.

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
				00		
1	1	D-CS-M7982-0-1	CIRCUIT SCHEMATIC			REF
2	2	D-UA-M7982-0-0	UNIT ASSEMBLY			REF
3	3	B-DQ-M7982-0-0	DWG DIRECTORY			REF
4	4	D-MD-5012174-0-0	M7982	1		
5	5	1000006-00	10.0 MMF 100V 5%200PPM DM15S	2		C90,C91
6	6	1000015-00	82.0 MMF 100V 5%200PPM DM15S	4		C87,C85,C88,C89
7	7	1000016-00	100.0 MMF 100V 5%200PPM DM15S	1		C81
8	8	1000020-00	180.0 MMF 100V 5%200PPM DM15S	2		C75,C83
9	9	1000023-00	330.0 MMF 100V 5%200PPM DM15S	2		C82,C84
10	10	1000026-00	380.0 MMF 100V 5%200PPM DM15S	1		C79
11	11	1000042-00	1000.0 MMF 100V 5%200PPM DM15S	1		C77
12	12	1001610-00	.01 MFD 50V -20+80 Z5U AXIAL	89		C1-C69,C92-C111
13	13	1002424-00	1200.0 MMF 100V 5%200PPM DM15S	1		C86
14	14	1005306-00	6.8MFD 35V 10% S.TANT	6		C70-C75
15	15	1110864-00	LED 2MCD@10MA	1		D1
16	16	USED FOR E57.	SOCKET 16PIN	1		
17	17	1209941-03	HEADER RT ANGLE LEFT L	1		
18	18	1209941-04	HEADER RT ANGLE,RIGHT	1		
19	19	1209941-06	HEADER.100 20POS RT ANGLE	1		J1
20	20	1210711-02	HANDLE,MODULE,HEX	1		
21	21	1211164-06	SW,DIP 1P 1A 10POS	2		E34,E90
22	22	1300202-00	47.0 .25 W 5.0 % CC	2		R37,R19
23	23	1300229-00	100.0 .25 W 5.0 % CC	6		R17,R35,R39,R48-R50
24	24	1300309-00	390 1/4W 5% CC	7		R22,R24,R41,R42,R52,R54,R36
25	25	1300345-00	1 K 1/4W 5% CC	7		R1-R4,R55,R59,R60
26	26	1301322-00	180.0 .25 W 5.0 % CC	9		R21,R34,R40,R43-R45,R51,R53,R109
27	27	1301890-00	560 1/4W 5% CC	1		R57
28	28	1302389-00	4.3 K 1/4W 5% CC	24		R5-R16,R20,R25-R31,R38,R46,R47, R32
29	29	1302391-00	20 K 1/4W 5% CC	2	CONT	R23,R33

REVISION HISTORY		BASIC PART NO: M7982		DRN:	FRED MAY	DATE:	06-DEC-77	DIGITAL			
ENG!	ECO NUMBER	REV	SECTION A OF A	CHK'D:	C.CAMPBELL	DATE:	06-DEC-77	TITLE PARTS LIST			
---	INIT	C	SECTION.VARIATION INDEX	DES.ENG:	R.BOUCHER	DATE:	17-JUL-78	DOCUMENT NUMBER			
PK	M7982-ML002	D	[A] 00	RESP.ENG.:	R.BOUCHER	DATE:	17-JUL-78	SIZE	CODE	NUMBER	REV
			[B]	MFG.ENG.:	P.BARTON	DATE:	17-JUL-78	K	FL	M7982-0-DBP	D
			[C]	ASSEMBLY NUMBER:	D-UA-M7982-0-0	TOP DOCUMENT NUMBER:	TS11	FILE NAME:	Z1079D.PLS	EDIT #:	20
			[D]								
			[E]								
			[F]								
			[G]								
			[H]								
			[I]								
			[J]								
			[K]								
			[L]								
			[M]								
			[N]								

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1979
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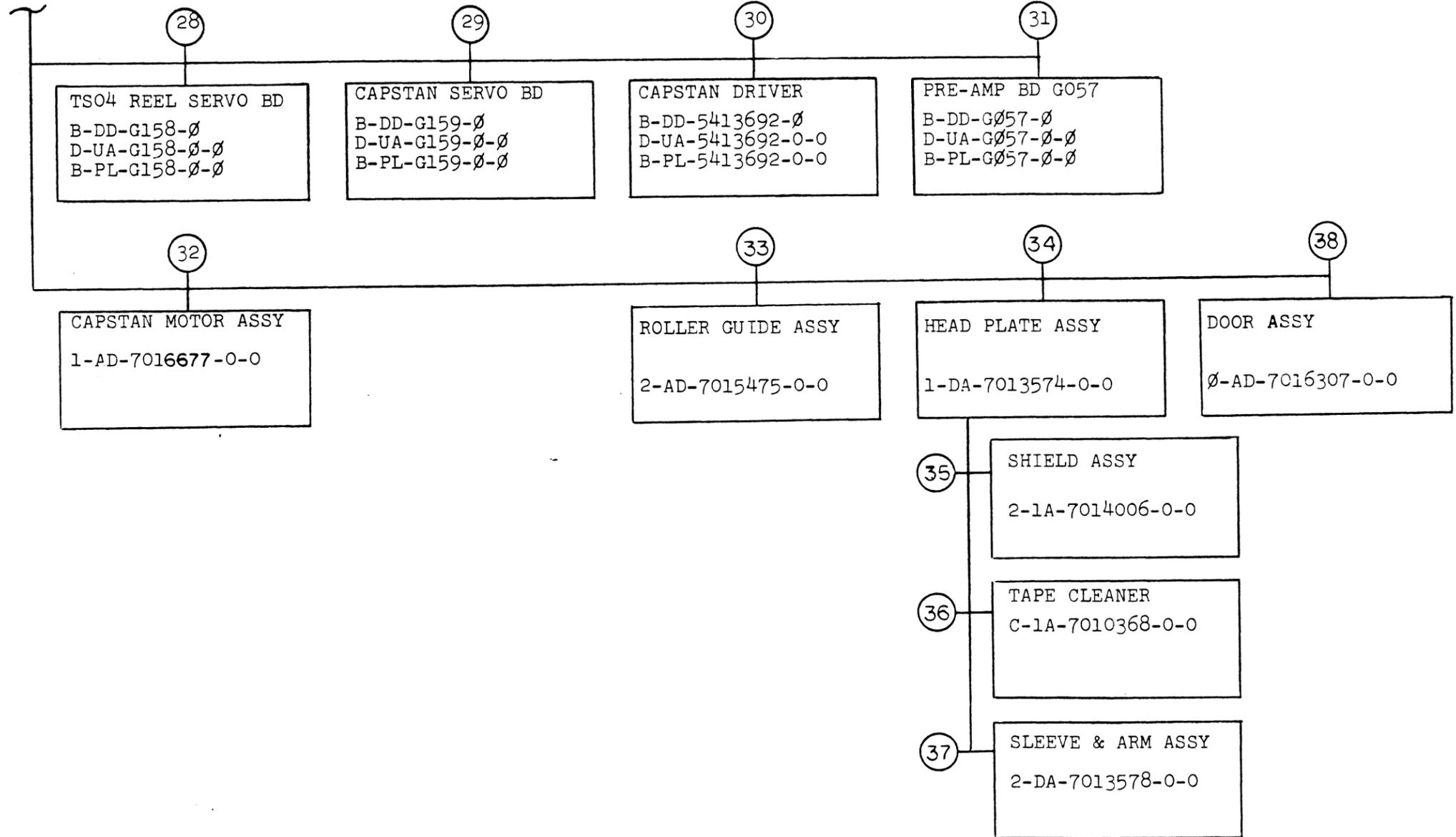


CONTINUED ON SHEET 3 OF 6

TITLE	DRAWING DIRECTORY (TS04-A)	SIZE	CODE	NUMBER	REV
			B DD	TS04-A	A
SHEET 2 OF 6					

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FROM SHEET 2 OF 7



FIND NO.	DRAWING NO.	DESCRIPTION	TYPE	FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
1	E-UA-TS04-A-0	DRIVE, FRAME ASSY (TS04-A)	E/M	9	B-DD-M8923-0	DRAWING DIRECTORY	--
	K-PL-TS04-A-DBP	PARTS LIST	E/M		D-UA-M8923-0-0	READ CONTROL	E/M
	B-TC-TS04-A-01	TABLE OF CONTENTS (TS04-A)	---		B-PL-M8923-0-0	READ CONTROL (PL)	E/M
	2-1A-7422626-0-0	STRAP GROUND	M				
	EKOTSII-UG	USER GUIDE	REF				
	EKOTSII-TM	TECH MANUAL	REF	10	B-DD-M8924-0	DRAWING DIRECTORY	--
	EKOTSII-SV	POCKET SERVICE GUIDE	REF		D-UA-M8924-0-0	P.E. FORMATTER	E/M
					B-PL-M8924-0-0	P.E. FORMATTER (PL)	E/M
2	0-1A-7016301-0-0	FRAME ASSY	M	11	B-DD-M8922-0	DRAWING DIRECTORY	--
	1-MD-7422062-0-0	SPACER FRONT	M		D-UA-M8922-0-0	BRANCH LOG-VCO CONTROL	E/M
	1-MD-7422061-0-0	BRACE, CENTER	M		B-PL-M8922-0-0	BRANCH LOG-BCO CONTROL (PL)	E/M
	1-MD-7422060-0-0	SUPPORT, POWER SUPPLY	M				
	1-MD-7422064-0-0	SPACER, REAR	M				
	E-1A-7422058-0-0	SPACER, MIDDLE	M	12	B-DD-M8962-0	DRAWING DIRECTORY	--
					D-UA-M8962-0-0	MICROPROCESSOR BOARD 1	E/M
					B-PL-M8962-0-0	MICROPROCESSOR BOARD 1 (PL)	E/M
3	E-1A-7016299-0-0	FRAME WELDMENT LEFT HAND	M				
	1-MD-7422067-0-0	SUPPORT L.H.	M	13	B-DD-M8964-0	DRAWING DIRECTORY	--
	1-MD-7422084-0-0	FRAME SIDE L.H.	M		D-UA-M8964-0-0	ROM BOARD	E/M
					B-PL-M8964-0-0	ROM BOARD (PL)	E/M
4	E-1A-7016320-0-0	FRAME WELDMENT RIGHT HAND	M				
	1-MD-7422066-0-0	SUPPORT R.H.	M				
	1-MD-7422084-0-0	FRAME SIDE R.H.	M	14	B-DD-M8968-0	DRAWING DIRECTORY	--
					D-UA-M8968-0-0	ROM EXTENSION BOARD	E/M
					B-PL-M8968-0-0	ROM EXTENSION BOARD (PL)	E/M
5	B-DD-7016288-0	DRAWING DIRECTORY POWER SUPPLY ASSY	---				
	E-AD-7016288-0-0	POWER SUPPLY ASSY	E/M	15	B-DD-M8963-0	DRAWING DIRECTORY	--
	B-PL-7016288-0-0	POWER SUPPLY ASSY (PL)	E/M		D-UA-M8963-0-0	MICROPROCESSOR BOARD 2	E/M
					B-PL-M8963-0-0	MICROPROCESSOR BOARD 2 (PL)	E/M
6	0-1A-7016676-0-0	ELECTRONIC CHASSIS ASSY	E/M				
	2-MD-7419785-0-0	ANGLE MOTHER BD	M	16	B-DD-M8967-0	DRAWING DIRECTORY	--
	2-MD-7419784-0-0	INSULATOR CARD GUIDE	M		D-UA-M8967-0-0	I/O SECTION 3	E/M
	2-MD-7418050-0-0	BAR RETAINER	M		B-PL-M8967-0-0	I/O SECTION 3 (PL)	E/M
	1-1A-7016285-0-0	CABLE, FAN LOGIC	E/M				
7	B-DD-5412989-0	DRAWING DIRECTORY	---	17	B-DD-M8929-0	DRAWING DIRECTORY	--
	0-UA-5412989-0-0	MOTHER BOARD	E/M		D-UA-M8929-0-0	WRITE CONTROL	E/M
	B-PL-5412989-0-0	MOTHER BOARD (PL)	E/M		B-PL-M8929-0-0	WRITE CONTROL (PL)	E/M
8	B-DD-G157-0	DRAWING DIRECTORY	---				
	0-UA-G157-0-0	G157 TS04 RD AMP	E/M				
	B-PL-G157-0-0	G157 TS04 RD AMP (PL)	E/M				

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

digital

TITLE
DRAWING DIRECTORY TS04-A

SHEET 4 OF 6

SIZE CODE
B DD

NUMBER
TS04-A

REV
A

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE	FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
18	B-DD-M8966-Ø	DRAWING DIRECTORY	---		A-PS-1214813-0-0	COVER HEAD RIGHT	M
	D-UA-M8966-Ø-Ø	I/O SECTION 2	E/M		A-PS-1214812-0-0	COVER HEAD LEFT	M
	B-PL-M8966-Ø-Ø	I/O SECTION 2 (PL)	E/M		A-PS-1215655-0-0	SWITCH INTERLOCK	M
					A-PS-1214815-0-0	COVER HUB	M
					A/1-PS-1214816-0-0	RING CENTER	M
19	B-DD-M8965-Ø	DRAWING DIRECTORY	---		A-PS-1214946-0-0	RING RUBBER	M
	D-UA-M8965-Ø-Ø	I/O SECTION 1	E/M		D-PS-1213119-0-0	HUB QUICK RELEASE	M
	B-PL-M8965-Ø-Ø	I/O SECTION 1 (PL)	E/M		A-PS-1214843-0-0	LATCH	M
					A-PS-1215235-0-0	LID SUPPORT	M
					2-MD-7422583-0-0	INSULATOR GØ57	M
20	1-1A-7016298-0-0	CARD NEST ASSY	M		A-PS-1214955-0-0	HINGE DEC PLATE	M
	1-1A-7422065-0-0	SUPPORT CARD GUIDE	M		2-MD-7418032-0-0	INSULATOR G158	M
	1-1A-7422081-0-0	PANEL CHASSIS	M		A-PS-1214609-0-0	LATCH GRIP	M
	1-MD-7422063-0-0	BRACKET FAN	M		1-IA-7014149-0-0	CABLE WRITE HEAD	E/M
					1-IA-7013582-0-0	CABLE READ HEAD	E/M
					1-IA-7016284-0-0	CABLE POWER R/W	E/M
					1-IA-7016259-0-0	HARNESS C/P	E/M
21	E-UA-TSØ4K-A-Ø	CAB INSTALLATION KIT	M		2-IA-7016528-0-0	CABLE INTERCONNECT	E/M
	K-PL-TSØ4-A-ØBP	PARTS LIST	M		D-IA-7013577-0-0	HARNESS DRIVE	E/M
					1-IA-7016258-0-0	HARNESS W/L/L	E/M
					1-IA-7014186-0-0	CABLE ASSY/FOLDED	E/M
					A-PS-1215031-0-0	LID SUPPORT D/S	M
22	Ø-AD-7013573-0-0	DECK PLATE ASSY	E/M		1-IA-7013581-0-0	CABLE ASSY FOLDED	E/M
	Ø-MD-7417657-0-0	DECK PLATE	M		1-IA-7014136-0-0	TRANSDUCER AND CONNECTOR ASSY	E/M
	2-MD-7-18013-0-0	SPACER MOTOR MTG	M		2-MD-7418507-0-0	BRACKET INTERLOCK	M
	2-MD-7418016-0-0	PLATE CABLE	M				
	2-MD-7418008-0-0	BLOCK TRANSDUCER	M				
	2-MD-7418048-0-0	BLOCK BASE	M				
	2-MD-7418049-0-0	BLOCK SPRING ADJ	M				
	2-MD-7418012-0-0	PIN RAMP	M				
	1-MD-7418009-0-0	BRACKET GUSSET L.H.	M	23	1-AD-7013578-0-0	REEL MOTOR ASSY	E/M
	1-IA-7418004-0-0	BRACKET GUSSET R.H.	M		A-PS-1214528-0-0	REEL MOTOR	E/M
	1-IA-7418022-0-0	BLOCK HINGE	M		A/C-PS-1214606-0-0	BRAKE MOTOR	E/M
	1-MD-7418014-0-0	HOLDER PRE-AMP	M		1-1A-7014362-0-0	HARNESS CAPACITOR FAN	E/M
	1-MD-7418015-0-0	COVER PRE-AMP	M				
	2-MD-7417985-0-0	BLOCK CAPSTAN ADJ	M				
	2-MD-7418036-0-0	STOP RUBBER	M	24	1-1A-7013882-0-0	COOLING COWL WELDMENT	M
	2-MD-7422071-0-0	SPACER	M		2-MD-7418506-0-0	SLEEVE COWL	M
	2-MD-7421766-0-0	COVER G158	M		2-1A-7418505-0-0	FLANGE COWL	M
	2-MD-7418010-0-0	CAPSTAN	M		2-MD-7418006-0-0	BRACKET COWLMTG	M
	2-MD-7418021-0-0	CLAMP CAPSTAN	M				
	Ø-MD-7418878-0-0	HUB INNER	M				
	D-MD-7417902-0-0	FLANGE	M	25	Ø-AD-7014014-0-0	TENSION ARM ASSY	E/M
	2-MD-7418507-0-0	BRACKET SWITCH	M		2-MD-7417982-0-0	SHAFT PIVOT	M
	1-MD-7422508-0-0	BRACKET DOOR STAY	M		2-MD-7417989-0-0	ARM TENSION	M
	D-DA-7418005-0-0	BEZEL	M		2-MD-7417983-0-0	HOUSING TENSION ARM	M
	A-PS-1214839-0-0	CLIP TUBULAR	M		A/C-PS-1216060-0-0	ROLLER ASSY	M

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

digital

TITLE DRAWING DIRECTORY TSØ4

SHEET 5 OF 6

SIZE CODE
B DD

NUMBER
TSØ4-A

REV
A

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE	FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
25	A-PS-1214114-0-0	BEARING	M	34	2-MD-7418265-0-0	GUIDE, TAPE PIN	M
					A/C-PS-1216060-0-0	ROLLER ASSY	M
26	2-AD-7015666-0-0	LIMIT SWITCH ASSY	E/M		A-PS-1209877-0-0	WASHER CERAMIC	M
	2-MD-7418035-0-0	BRACKET SWITCH	M		2-MD-7417900-0-0	WASHER CLAMP	M
	2-MD-7418035-0-0	SWITCH REWORK	E/M		2-MD-7420621-0-0	WASHER	M
					2-IA-7016662-0-0	EOT/BOT ASSY	M
					B-MD-7422992-0-0	SHAFT BUFFER	M
27	1-IA-7016318-0-0	WRITE LOCKOUT ASSY	E/M		B-MD-7422993-0-0	WASHER	M
	2-IA-7422069-0-0	BRACKET W.L.O.	M				
	2-MD-7422070-0-0	ARM W.L.O.	M				
	A-PS-1214548-0-0	SOLENOID	E/M	35	2-IA-7014006-0-0	SHIELD ASSY	M
	2-IA-7016317-0-0	HARNESS WRITE LOCK	E/M		2-MD-7418667-0-0	SHIELD MAGNETIC FLUX	M
	2-MD-7422062-0-0	HOLDER ARM	M		2-MD-7418666-0-0	HOLDER	M
					2-MD-7422487-0-0	SHIELD COPPER	M
					A-PS-1614497-0-0	FIRRITE	M
28	B-DD-G158-Ø	DRAWING DIRECTORY	---	36	C-IA-7010368-0-0	TAPE CLEANER	M
	D-UA-G158-Ø-Ø	TSØ4 REEL SERVO BD	E/M		C-MD-7414126-0-0	SUPPORT SCRAPER	M
	B-PL-G158-Ø-Ø	TSØ4 REEL SERVO BD (PL)	E/M		C-MD-7414127-0-0	SCRAPER, TAPE	M
29	B-DD-G159-Ø	DRAWING DIRECTORY	---				
	D-UA-G159-Ø-Ø	CAPSTAN SERVO BD	E/M	37	2-DA-7013578-0-0	SLEEVE ARM ASSY	M
	B-PL-G159-Ø-Ø	CAPSTAN SERVO BD (PL)	E/M		2-MD-7420619-0-0	ARM DAMPER	M
					A-PS-1215236-0-0	SLEEVE BEARING	M
30	B-DD-5413692-0	DRAWING DIRECTORY	---	38	2-AD-7016307-0-0	DOOR ASSY	M
	D-UA-5413692-0-0	CAPSTAN DRIVER	E/M		Ø-MD-7418027-0-0	DOOR	M
	B-PL-5413692-0-0	CAPSTAN DRIVER (PL)	E/M		2-MD-7419698-0-0	WINDOW	M
					2-IA-7419911-0-0	BRACKET LATCH	M
31	B-DD-GØ57-Ø	DRAWING DIRECTORY	---		A-PS-1214956-0-0	HINGE	M
	D-UA-GØ57-Ø-Ø	PRE-AMP BOARD	E/M		A-PS-1214838-0-0	CLIP	M
	B-PL-GØ57-Ø-Ø	PRE-AMP BOARD (PL)	E/M				
32	1-AD-7016677-0-0	CAPSTAN MOTOR ASSY	E/M	39	B-PL-TSØ4K-B-0	ACCESSORY KIT TSØ4/TS11	---
	1-PS-1214529-0-0	MOTOR CAPSTAN	M				
	2-MD-7417984-0-0	PLATE CAPSTAN MOTOR	M				
33	2-AD-7015475-0-0	ROLLER GUIDE ASSY	M				
	A/C-PS-1216060-0-0	ROLLER ASSY	M				
	2-MD-7418011-0-0	CLAMP ROLLER GUIDE	M				
	1-MD-7418520-0-0	BASE ROLLER GUIDE	M				
34	1-DA-7013574-0-0	HEAD PLATE ASSY	E/M				
	D-MD-7418034-0-0	HEAD PLATE	M				
	A-SP-7412561-0-0	HEAD, MAG, QTRK	---				
	B-MD-7418000-0-0	BLOCK AZIMUTH ADJ	M				
	2-MD-1218010-0-0	SPRING GUIDE	M				

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

digital

TITLE
DRAWING DIRECTORY

SHEET 6 OF 6

SIZE CODE
B DD

NUMBER
TSØ4-A

REV
A

DIGITAL EQUIPMENT CORPORATION PARTS LIST

MADE BY G. Marini	CHECKED R. Tremblay	SECTION
DATE 2/27/79	DATE 7/18/79	
ENG M. Cucini	PROD T. Wright	ISSUED SECTION
DATE 7/19/79	DATE 7/18/79	

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY / VARIATION										NOTES:	
				TS11K-AA (120V)											
1	D-AD-7016287-0-0	7016287-0	A.C. INPUT ASSY (120V)	1											
2	D-1A-1700083-0-0	1700083-00	POWER CORD ASSY (120V)	1											
3		9107253-0	TUBING SHRINK	A/R											
4	A-PS-3613210-0-0	3613210-00	LABEL (IDENTIFICATION)	1											
5		9905136-00	BOX	1											
6		9906200-01	PACKING BUBBLE PACK	A/R											
7		9009357-00	2" MASKING TAPE	A/R											

E.C.O. NO.	ML001	ML002	
------------	-------	-------	--

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		SHEET 1 OF 1	INSERTION PARTS LIST DATA BASE REV			

DIGITAL EQUIPMENT CORPORATION PARTS LIST				QUANTITY / VARIATION										NOTES:									
MADE BY G. Marini DATE 2/27/79		CHECKED Robert Tremblay DATE 7/18/79																					
ENG M. Cucina DATE 7/19/79		PROD T. Wright DATE 7/18/79																					
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	TS11K-AB (240V)																			REF DESIGNATION
1	D-AD-7016287-0-0	7016287-01	A.C. INPUT ASSY (240V)	1																			
2	D-1A-1700083-0	17-00083-17	POWER CORD ASSY (240V)	1																			
3		9107253-0	TUBING SHRINK	A/R																			
4	A-PS-3613210-0-0	3613210-00	LABEL (IDENTIFICATION)	1																			
5		9905136-00	BOX	1																			
6		9906200-01	PACKING BUBBLE PACK	A/R																			
7		9009357-00	2" MASKING TAPE	A/R																			

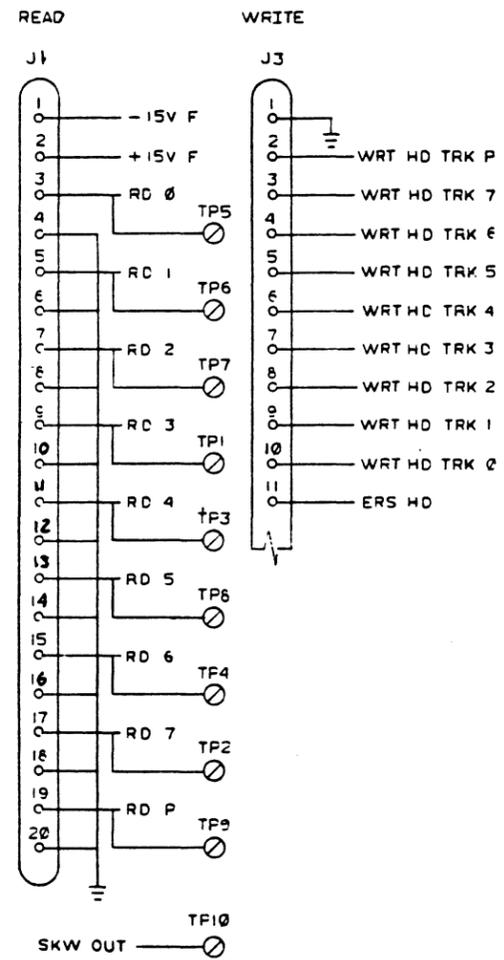
E.C.O. NO.
ML001
ML002

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					SHEET 1 OF 1		INSERTION PARTS LIST DATA BASE REV							

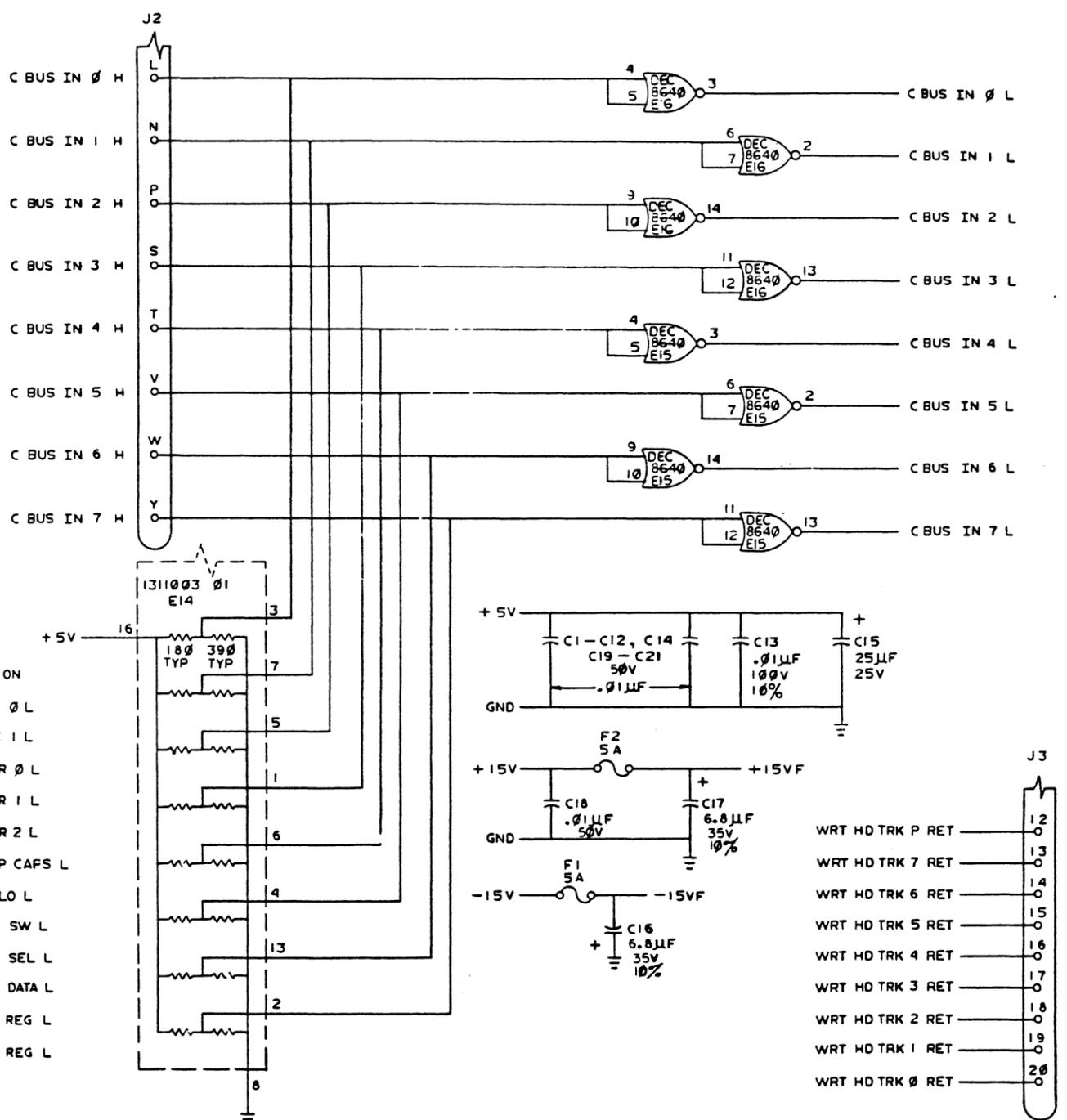
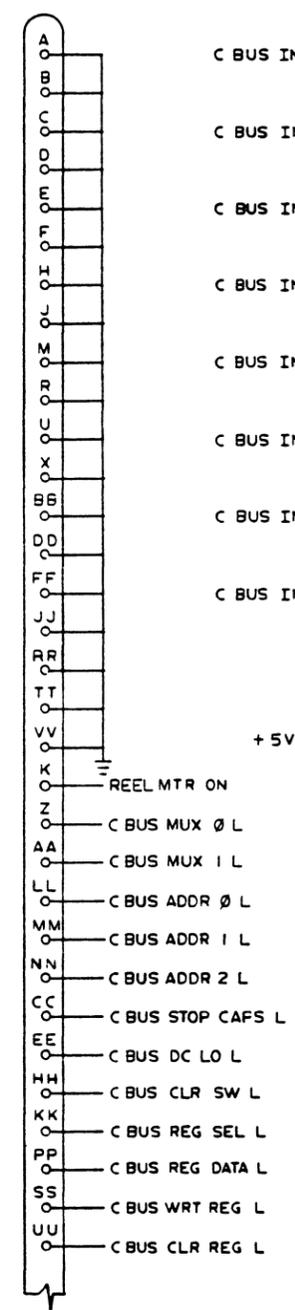
ML2

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5412989-0-1



CAPSTAN J2

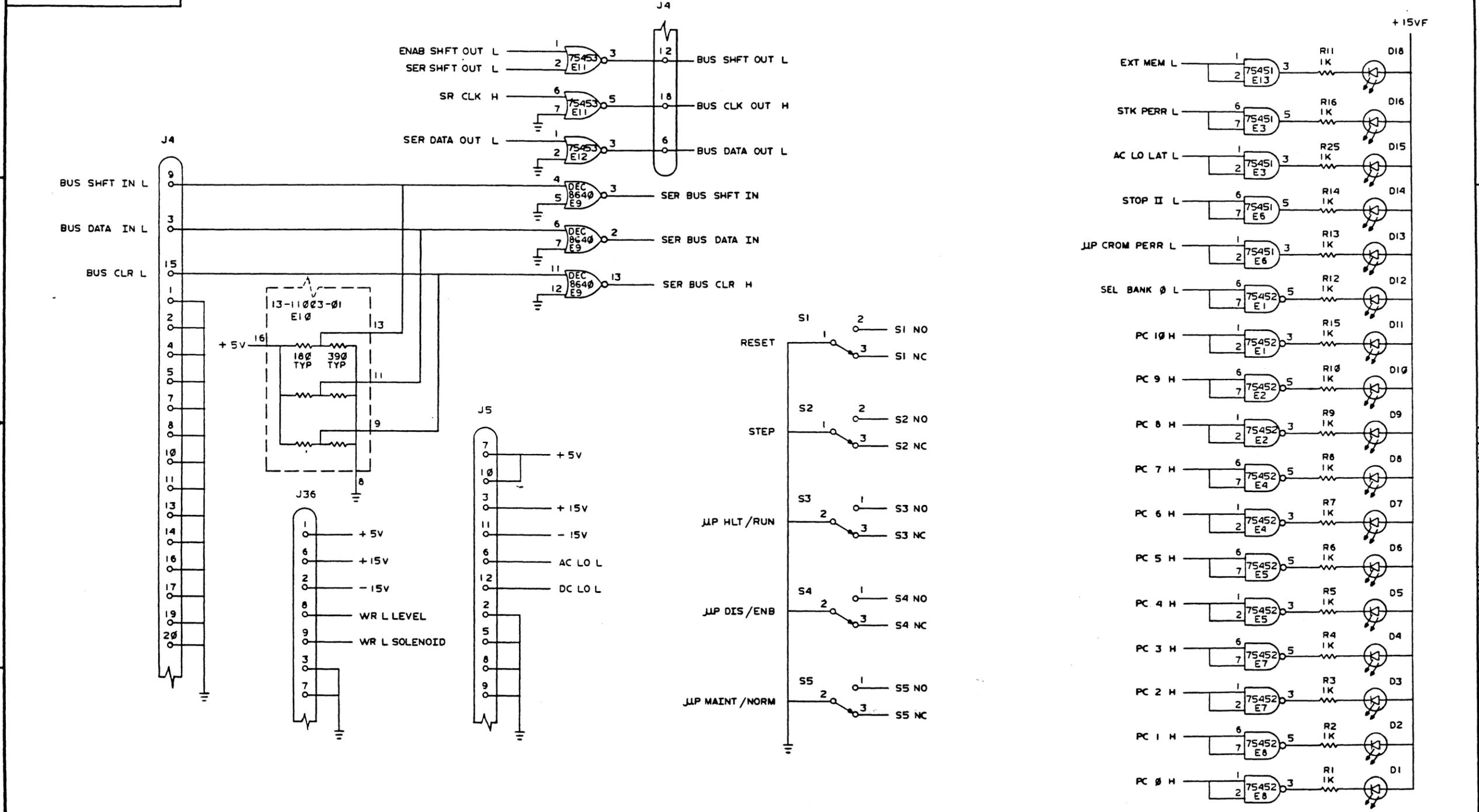


REV	CHG	BY	DATE
1		J. ROLLINS	11/7/77
2		R. NUTE	4/17/78

DRN. J. ROLLINS 11/7/77	FIRST USED ON	TS11	Digital
CHK'D P. BROWN 2 JAN 78	TITLE	MOTHER BOARD	
ENG. J. ROLLINS 1 FEB 77	NUMBER	TS0-1	
PROG. J. ROLLINS 1 FEB 77	REV.	F	
NEXT HIGHER ASSY.	SCALE	NONE	
B-DD-5412989-0	SIZE	CODE	D CS 5412989-0-1
SHEET 1 OF 8	DIST.		

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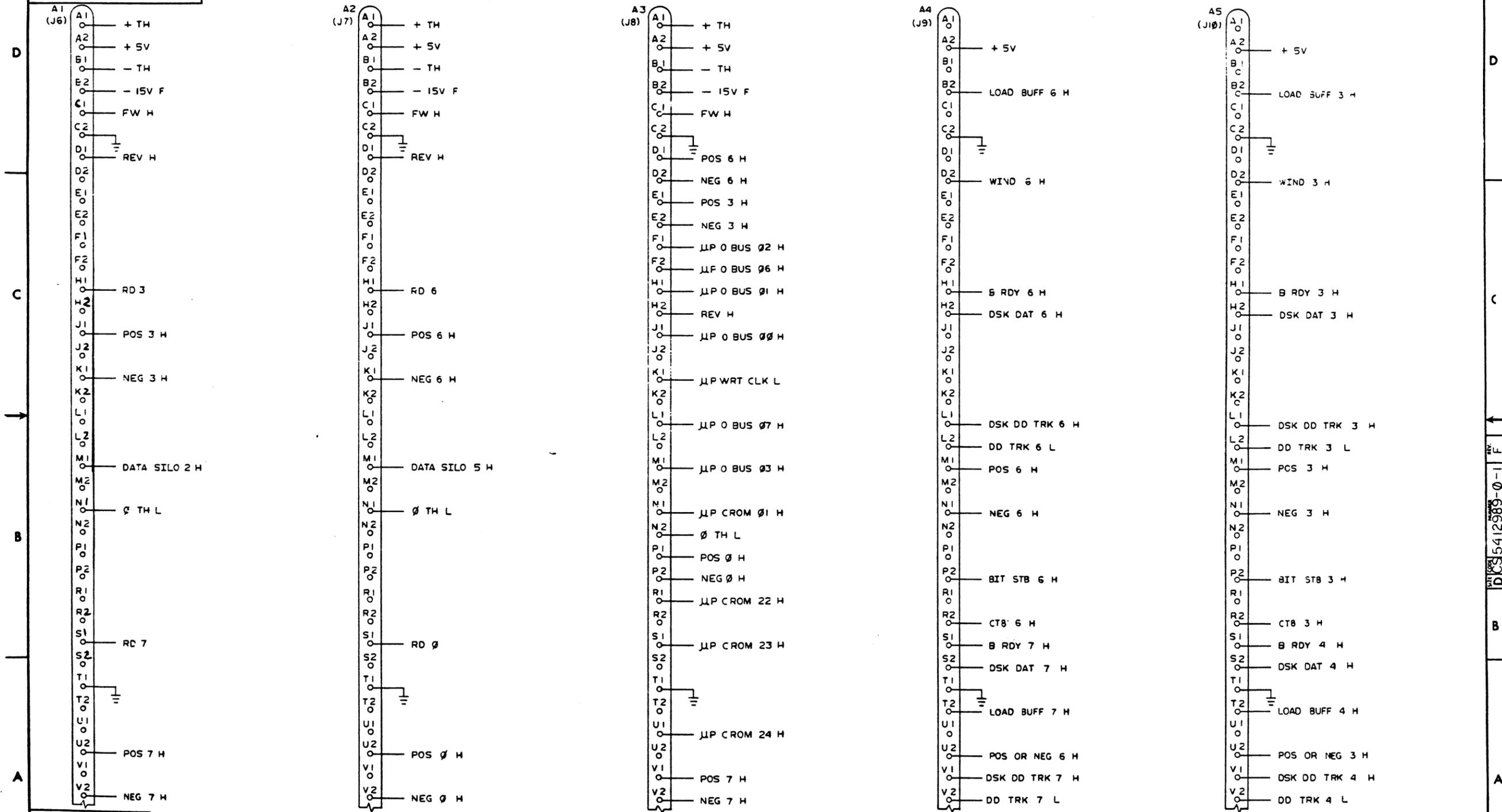
DCS 5412989-0-1 2



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE MOTHER BOARD TS04
 SCALE NONE SHEET 2 OF 8 DIST. NUMBER DCS 5412989-0-1 REV. F

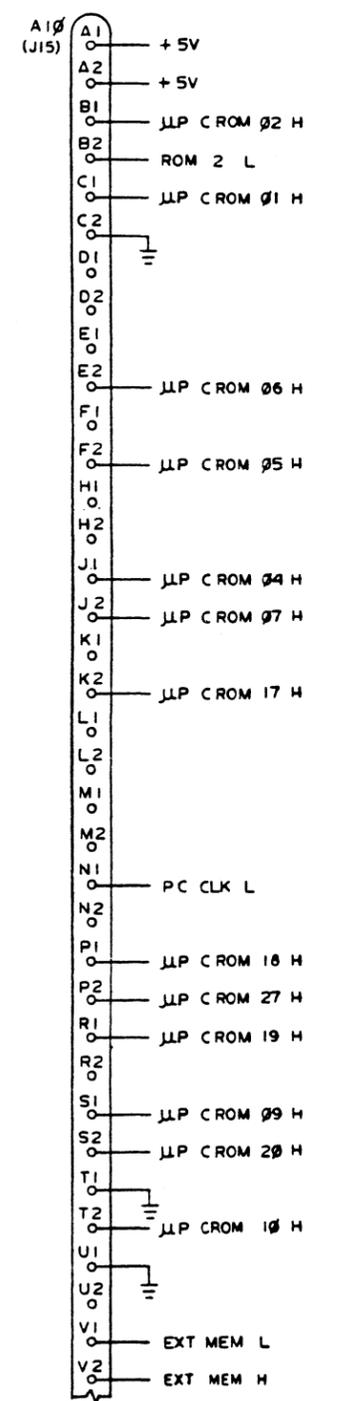
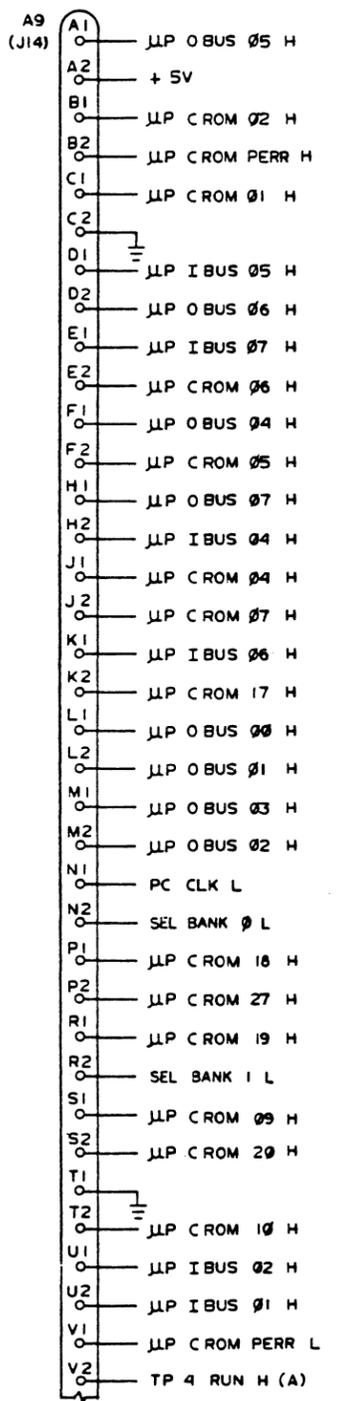
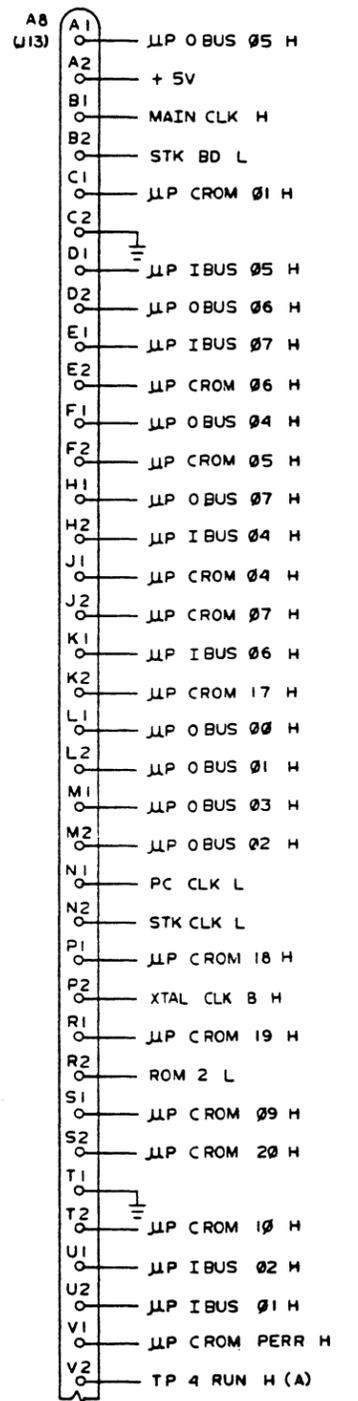
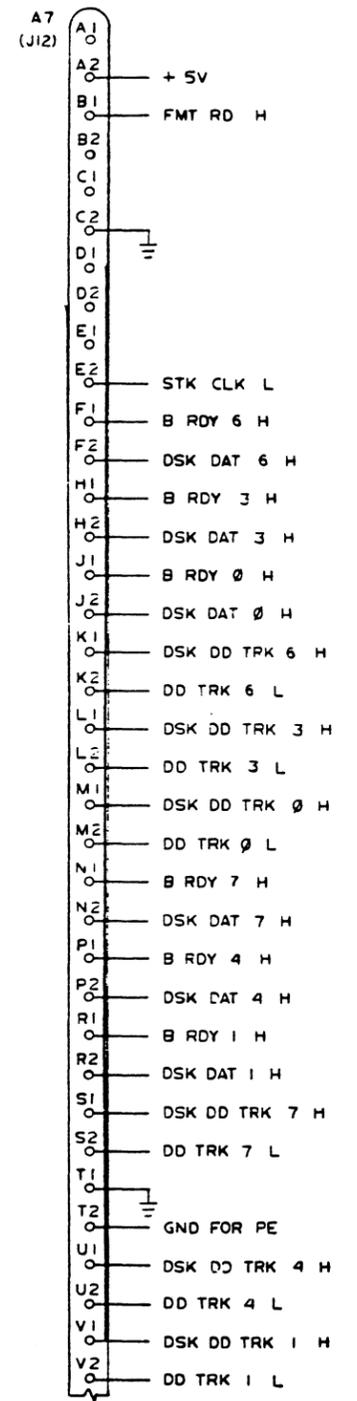
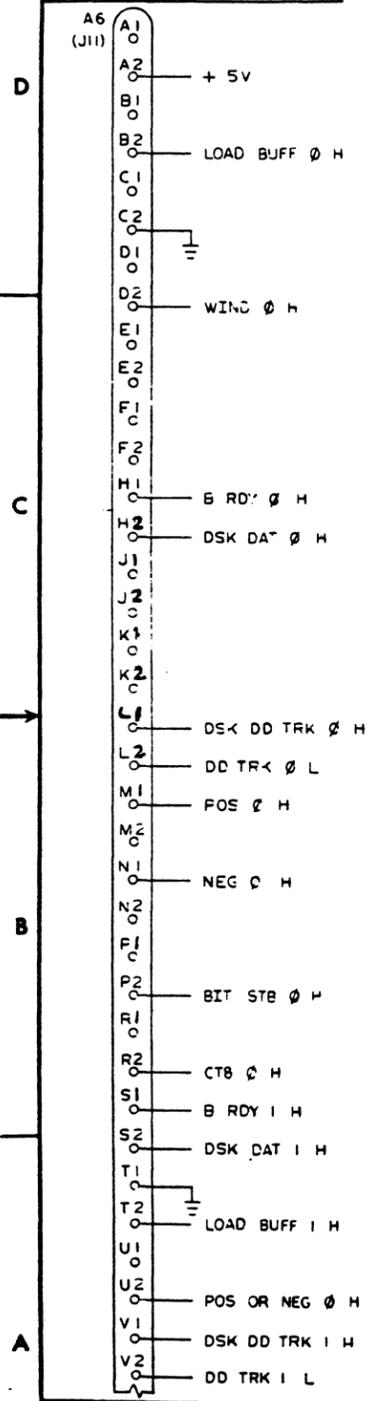
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REVISIONS		
CHK	CHANGE NO.	REV.

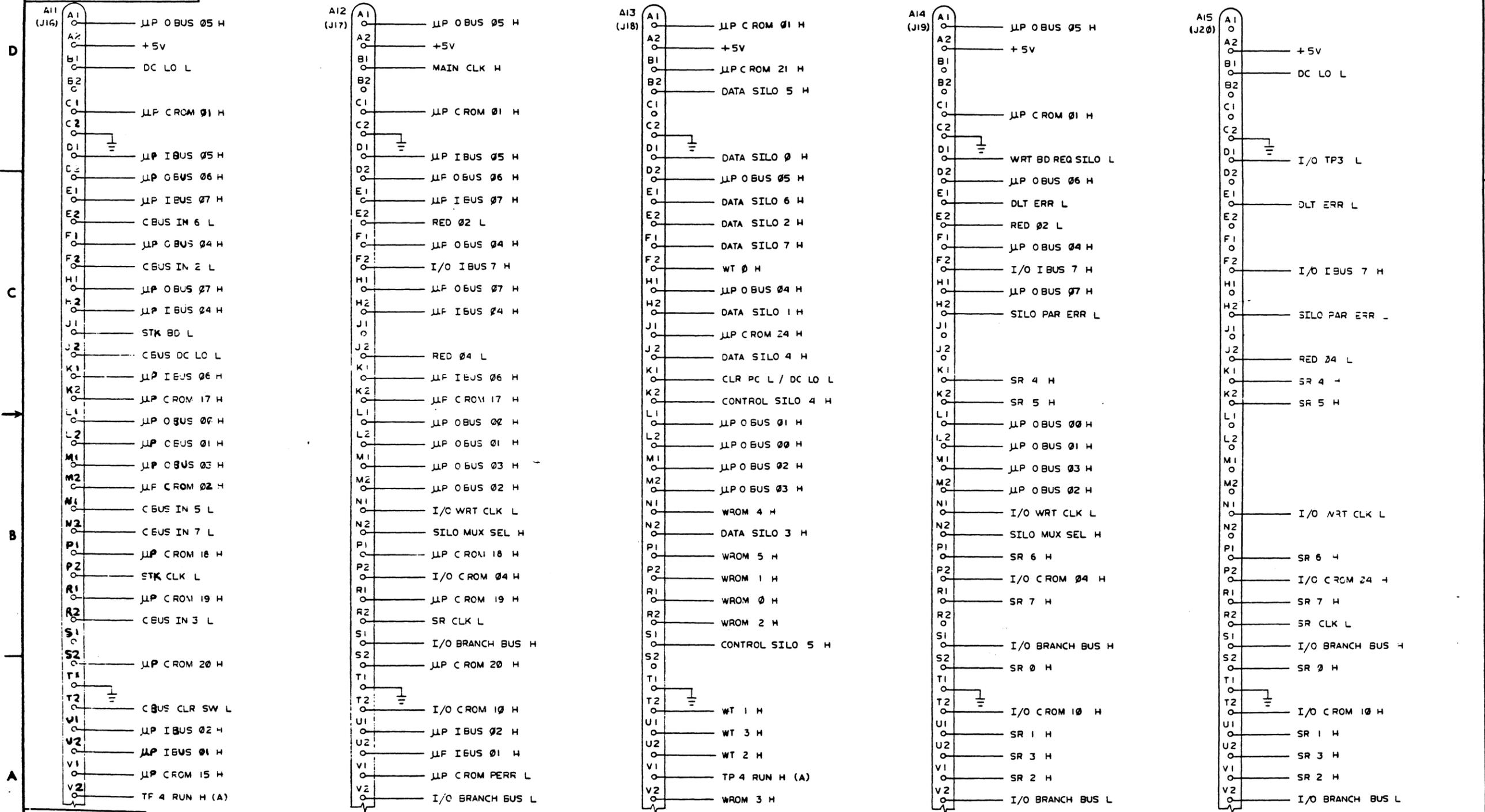
5412989-0-1 F

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REVISIONS		
CHK	CHANGE NO.	REV.

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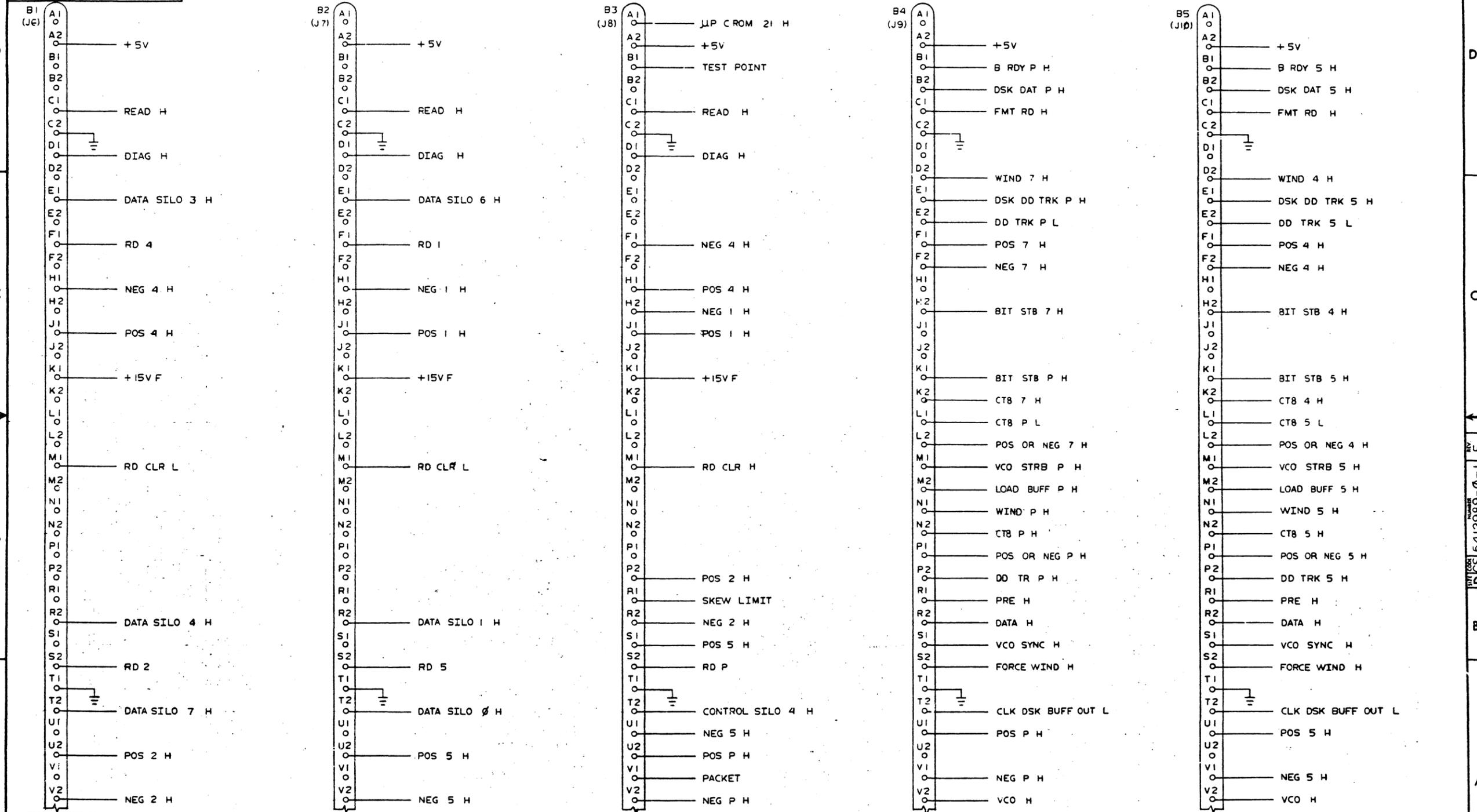


REVISIONS		
CHK	CHANGE NO.	REV.

DCS 5412989-0-1 F

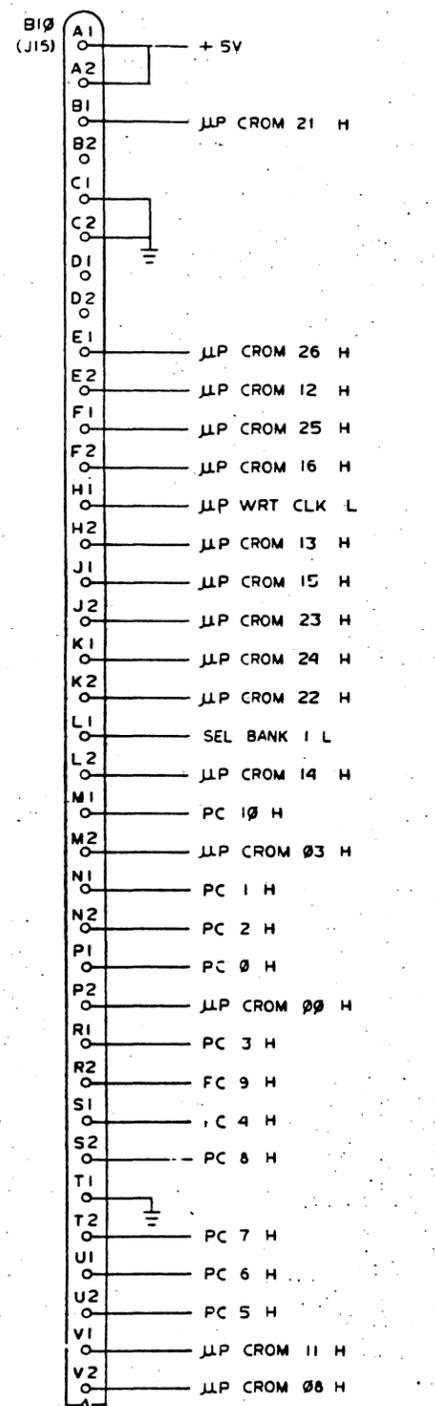
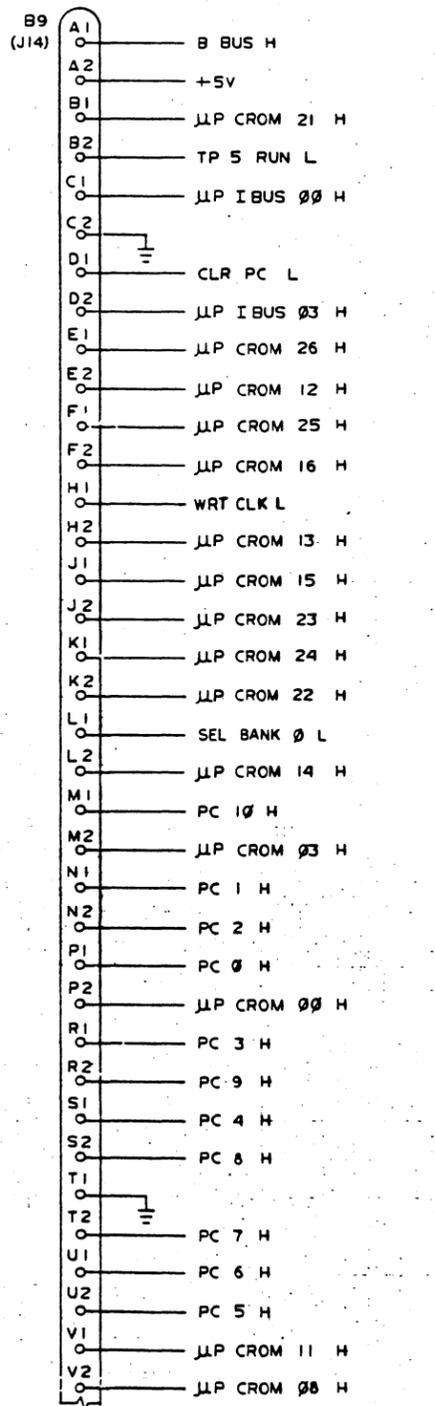
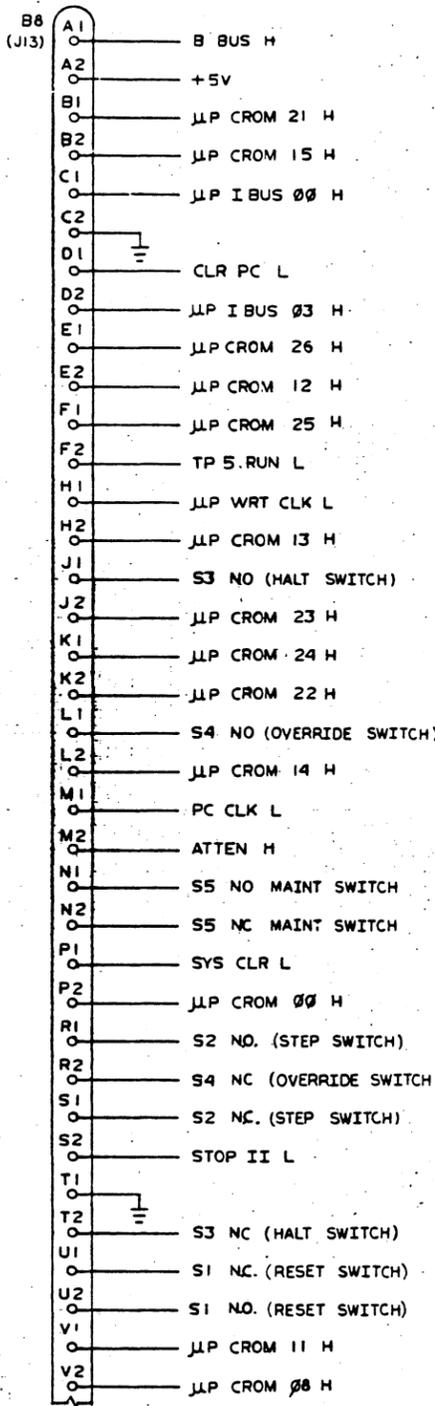
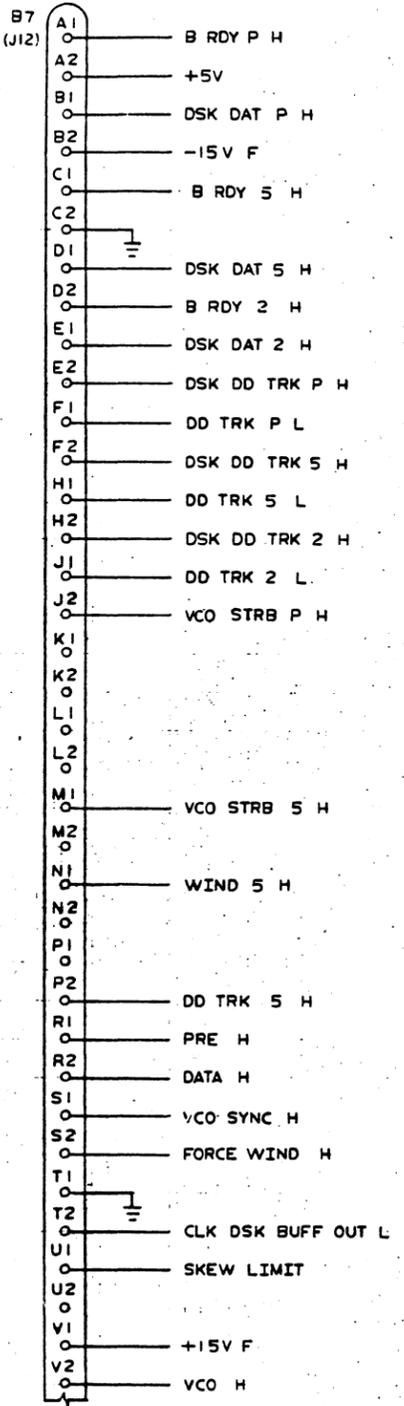
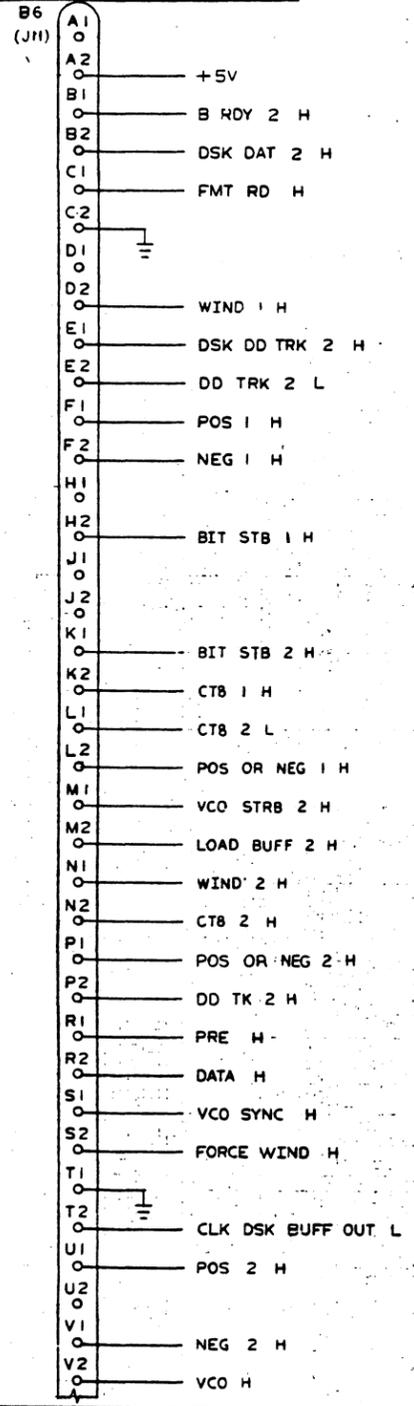
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SCALE	NONE	SHEET	5	OF	8	DIST.	

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REVISIONS		
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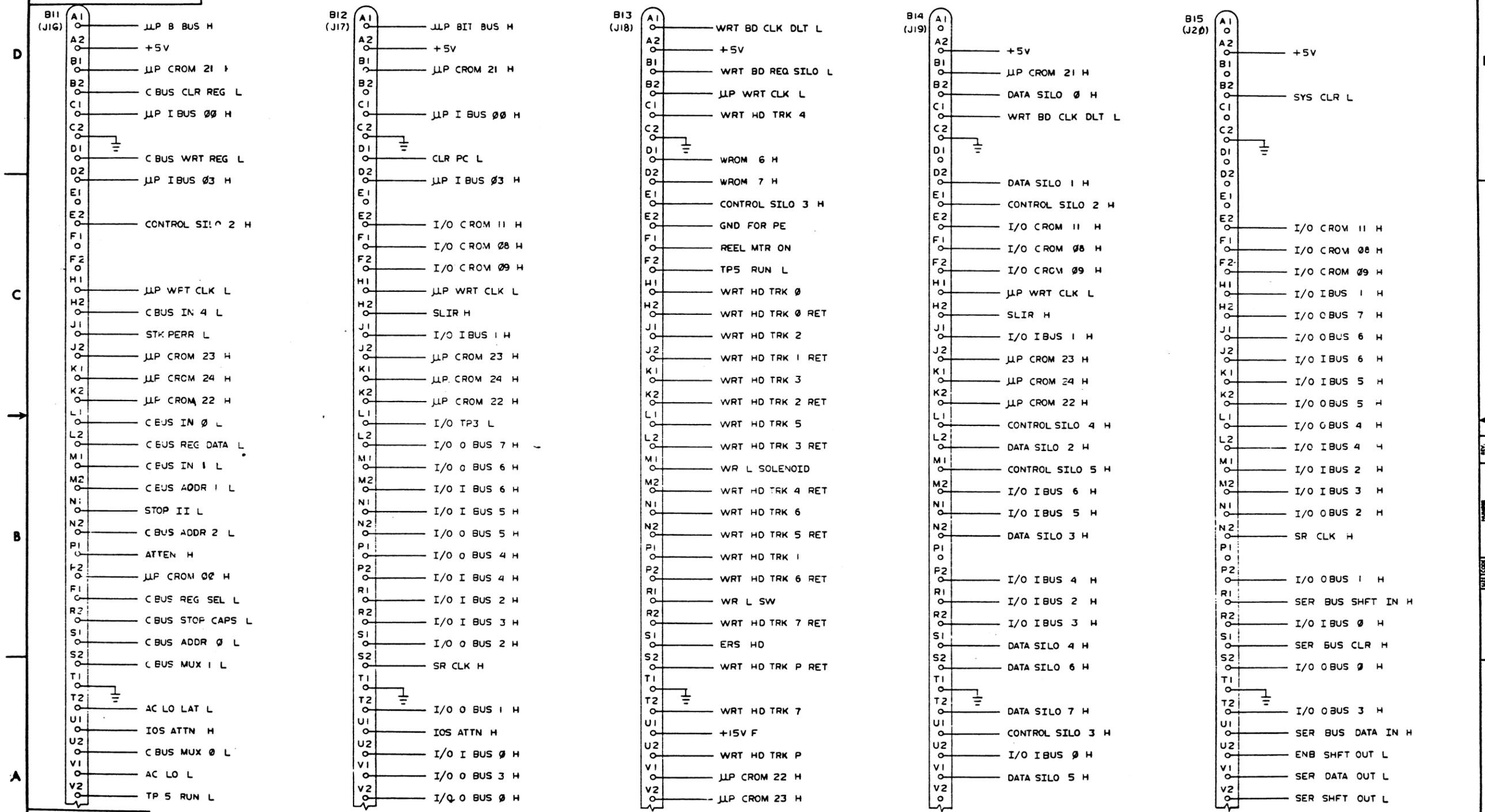
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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	MOTHER BOARD	SIZE CODE	NUMBER	REV.
	TS04	D	CS 5412989-0-1	F
SCALE	NONE	SHEET	7 OF 8	DIST.

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REVISIONS		
CHK	CHANGE NO.	REV.

REV. 1 E DCS 5412989-0-1

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR	
1	1	5012988-00	TS04 LOGIC BACKPLANE	1		
2	2	1000075-00	25 MFD 25V 6% 30D AL EL	1	C15	
3	3	1001610-00	.01 MFD 50V +80-20% Z5UCER	17	C1-C12,C14,C18-C20,C21	
4	4	1005306-00	6.8MFD 35V 10% S.TANT	2	C16,C17	
5	5	1005784-00	.01 MFD 100V 10% 663VW MYLR	1	C13	
6	6	1110324-00	LED 1MCD@10MA PIV=3	17	D1-D16,D18	
7	7	1209590-00	SW,TOG 1P 5A ON/NONE/ON	3	S3-S5	
8	8	1209941-02	HEADER 100 40POS RT ANGLE	1	J2	
9	9	USED ON J1,J2,J4.	1209941-03	HEADER RT ANGLE LEFT L	3	
10	10	USED ON J1,J2,J4.	1209941-04	HEADER RT ANGLE,RIGHT	3	
11	11	1209941-06	HEADER.100 20POS RT ANGLE	2	J1,J4	
12	12	1205747-00	FUSE, SUB-MINI, 5.000A, 125V, A	2	F1,F2	
13	13	1211079-00	SW,FB 1P 1A	2	S1,S2	
14	14	1211425-00	CONN,CARD 72PIN SLOTTED DOUBLE	15	J6-J20	
15	15	1212297-02	MATE-N-LOK 9PIN UNIV HEADER	1	J36	
16	16	1212297-06	MATE-N-LOK 12PIN UNIV HEADER	1	J5	
17	17	1213335-00	HEADER 20POS RT ANGLE FOR 12	1	J3	
18	18	1300365-00	1.0 K .25 W 5.0 % CC	17	R1-R16,R25	
19	19	1311003-01	R NETWORK 14-180 14-390 16PIN	2	E10,E14	
20	20	1910406-00	75451 DRIVER,PERIPH,DUAL,	3	E3,E6-E13	
21	21	1910645-00	75452 DRIVER,PERIPH,DUAL,	6	E1,E2,E4,E5,E7,E8	
22	22	1911036-00	75453 DRIVER,PERIPH,DUAL,	2	E11,E12	
23	23	1911469-00	DEC 8640 RECEIVER,BUS,QUAD,U	3	E9,E15,E16	
24	24	7418023-00	BRACKET SWITCH	1		
25	25	9006735-00	EYELET, FUNNEL FLANGE, .059 OD X	14		
26	26	USED ON S1-S5.	9008437-00	*** THIS ITEM IS NOT USED ***	-	
27	27	9006021-01	SCREW,PAN,PHIL 6-32X 5/16 SS	2		
28	28	9006709-00	*** THIS ITEM IS NOT USED ***	-		
29	29	9006560-00	NUT,KEP , 6-32 X5/16AF	2		
30	30	SEE NOTE.	1210695-00	WASHER MOUNT LIGHT EMIT DIODE	17	

REVISION HISTORY		BASIC PART NO: 5412989		DRN:	S. TUTTLE	DATE: 7-27-78	DIGITAL			
ENG!	ECO NUMBER	REV	SECTION A OF A	CHK'D:	P. BOSSMAN	DATE: 10-23-78	TITLE PARTS LIST			
---	INIT	D	SECTION.VARIATION INDEX	CHK'D:	P. BOSSMAN	DATE: 10-23-78	MOTHER BOARD TS04			
J.R!	5412989-ML001	E	[A] 00	DES.ENG:	J. ROLLINS	DATE: 10-23-78	DOCUMENT NUMBER			
RN!	5412989-ML002	F	[B]	RESP.ENG.:	J. ROLLINS	DATE: 10-23-78	SIZE!	CODE!	NUMBER	REV
			[C]	MFG.ENG.:	P. BARTON	DATE: 10-23-778	K	PL	5412989-0-DBP	F
			[D]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:	FILE NAME:		EDIT #!	
			[E]	!E-UA-5412939-0-0		!TS04	!Z0301F.PLS		!14	

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AUTOMATED BY PRTLST.2E(2)

PARTS LIST

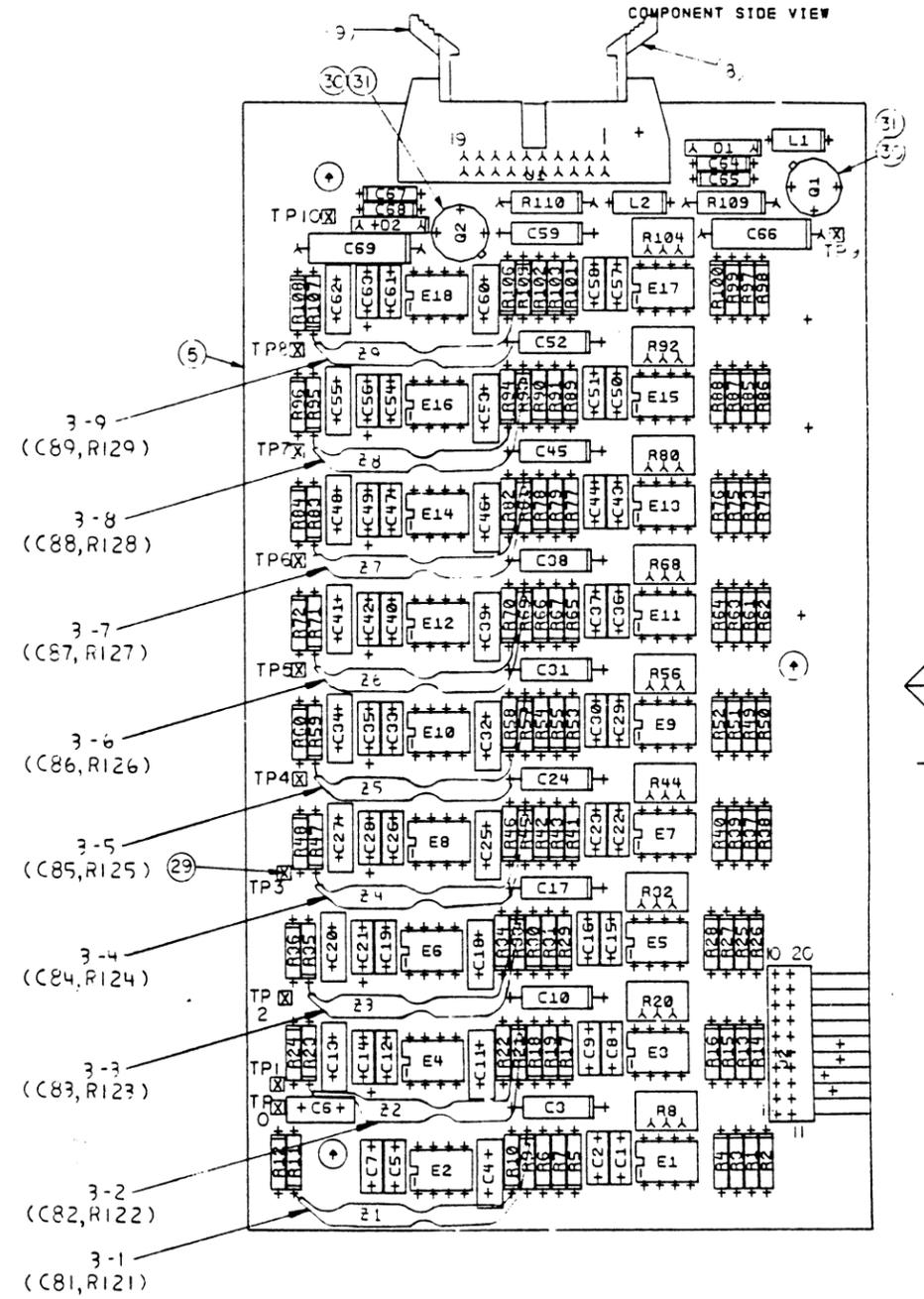
SHEET A2 OF A2

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
31	31	9107370-00	WIRE,STRND,14AWG,IFVC UL1534	00	A/R

32 NOTE: ITEM #30 USED UNDER D1-D16,D18.

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							MOTHER BOARD TS04		K	PL	5412989-0-DBP	F

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NOTES:
 1. NO GP TEST REQUIRED.
 2. SPECIAL TESTER G/77 REQUIRED.

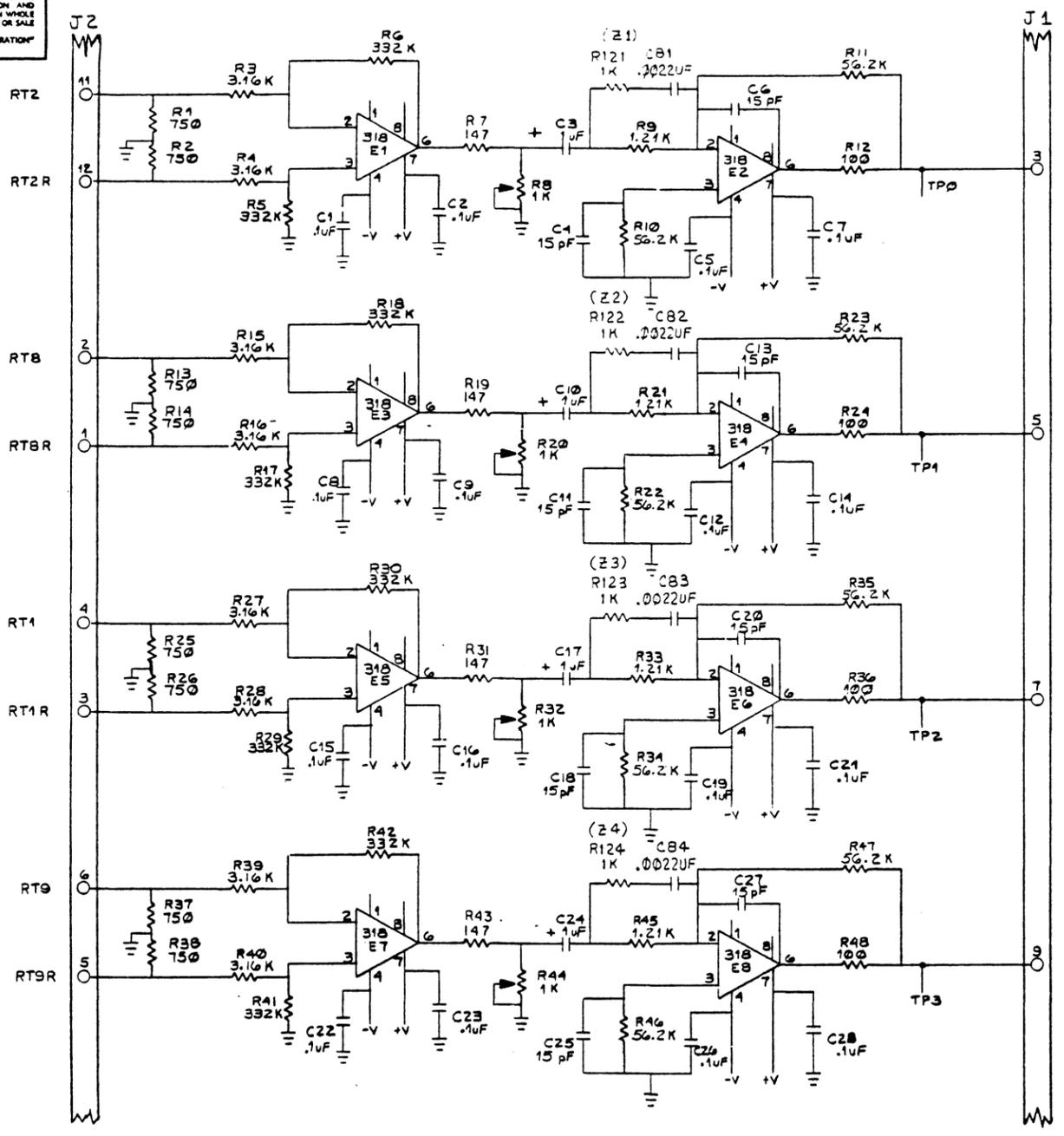
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C	69		REVISED

ETCH REV. D	P.C. DESIGN DATA BASE REV. D-PI
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SIGNATURES	DATE	TITLE
DRN. P. NICHOLLS	7-18-78	digital
CHK. D.	7-23-78	
ENG. J. COLLINS	7-23-78	
PROJ. ENG. J. COLLINS	7-23-78	TS04 PRE-AMP
PROD. J. COLLINS	7-23-78	
SCALE 2:1	SIZE CODE	NUMBER
SHT. 1 OF 4	0 UA	G057-0-0
NEXT HIGHER ASSY. B-DD-G057-0		

057-0-0
 D UA
 G057-0-0
 B

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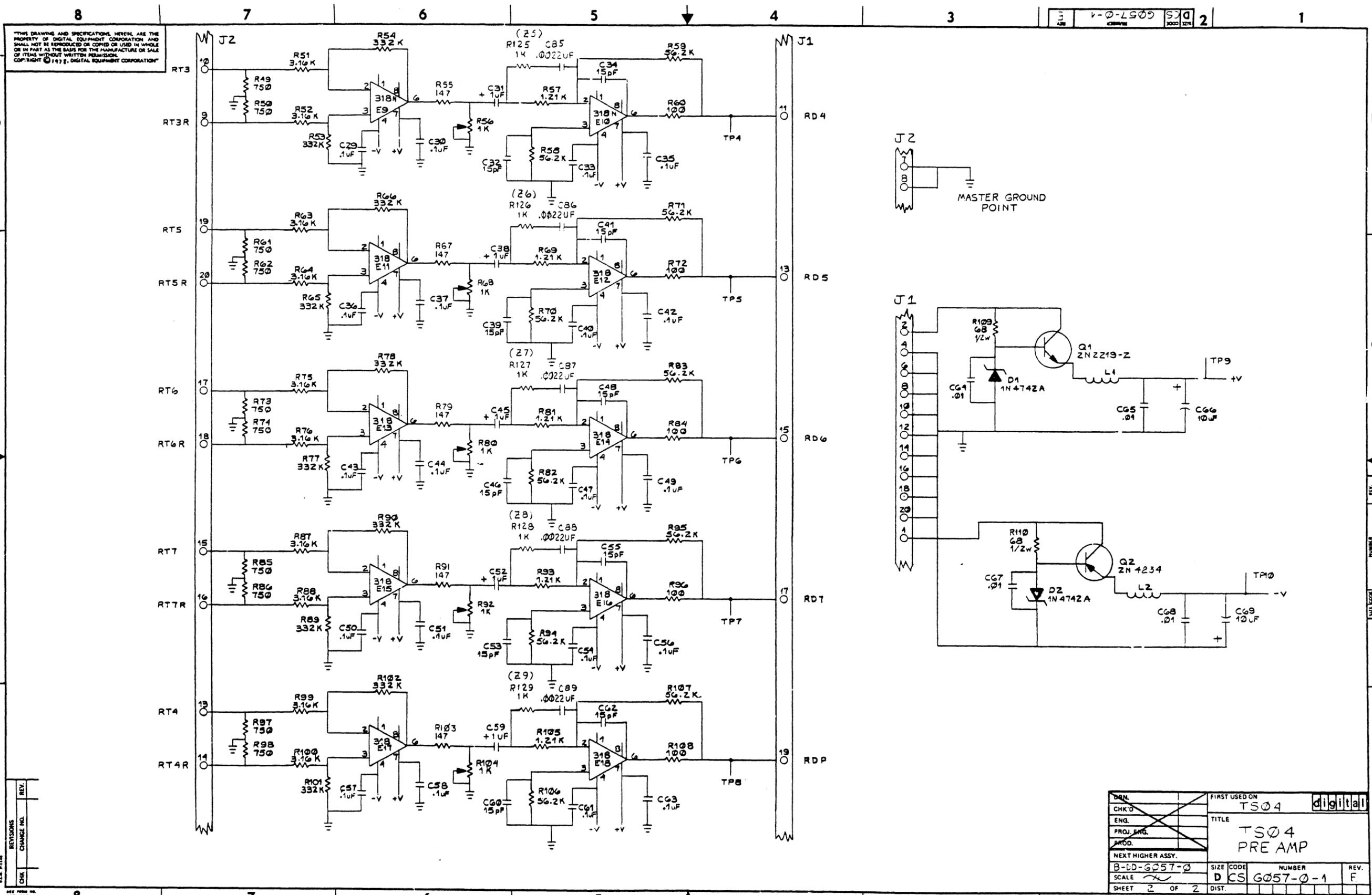
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2		REVISED AND MILITARY
3		REVISED AND MILITARY
4		REVISED AND MILITARY
5		REVISED AND MILITARY
6		REVISED AND MILITARY
7		REVISED AND MILITARY
8		REVISED AND MILITARY

DRN. S. EVANS	6-29-71	FIRST USED ON	TS04	digital
CHK'D	9-24-71	TITLE	TS04	
ENG. J. R. LIND	9-23-71	PROJ. ENG. J. R. LIND	9-25-71	
PROD. J. R. LIND	9-25-71	NEXT HIGHER ASSY.		
B-DD-G057-0	SIZE CODE	NUMBER	REV.	
SCALE	D CS	G057-0-1	E	
SHEET 1 OF 2	DIST.			

REV. E
NUMBER G057-0-1
SIZE CODE D CS

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1



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CS 6057-0-1 2

DESIGN	FIRST USED ON	digital
CHK'D	TITLE	TS04
ENG.	PROJECT	TS04
PROJ. ENG.	DESCRIPTION	PRE AMP
PROD.	NEXT HIGHER ASSY.	
	SCALE	D CS 6057-0-1
	SHEET	2 OF 2
	DIST.	SHO 1

REV. E
NUMBER G057-0-1
REV. D
SCALE DCS

REV.	
CHANGE NO.	
CHK.	

AUTOMATED BY PRTLST.2E(3)

PARTS LIST

SHEET A1 OF A2

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
1	1	D-CS-G057-0-1		CIRCUIT SCHEMATIC	REF	
2	2	D-UA-G057-0-0		UNIT ASSEMBLY	REF	
3	3	B-DD-G057-0-0		DRAWING DIRECTORY	REF	
4	4	D-MD-5011944-0-0		DRILL & ETCH DRAWING	REF	
5	5		5011944-00	G057	1	
6	6		1002427-00	15.0 MMF 100V 5%200PPM MICA	18	C4,C6,C11,C13,C18,C20,C25,C27,C32,C34,C39,C41,C46,C48,C53,C55,C60,C62
7	7		1213488-02	PCB,HEADER 20PIN(2X10).100CC STR	1	J2
8	8		1209941-03	PCB,HEADER LATCH	1	
9	9		1209941-04	PCB,HEADER LATCH	1	
10	10		1209941-06	PCB,HEADER 20PIN(2X20).100CC 90D	1	J1
11	11		1910735-02	318 OP AMP	18	E1-E18
12	12		1001610-00	.01 MFD 50V +80-20% Z5U CER	4	C64,C65,C67,C68
13	13		1010978-36	.1 MFD 50V 10% CER	36	C1,C2,C5,C7,C8,C9,C12,C14,C15,C16,C19,C21,C22,C23,C26,C28,C29,C30,C33,C35,C36,C37,C40,C42,C43,C44,C47,C49,C50,C51,C54,C56,C57,C58,C61,C63
14	14		1001776-00	1 MFD 35V 10% S.TANT	9	C3,C10,C17,C24,C31,C38,C45,C52,C59
15	15		1004813-00	10 MFD 20V 10% S TANT	2	C66,C69
16	16		1109502-02	1N 4742A VZ= 12.0 5% 1W	2	D1,D2
17	17		1302874-00	147.0 .25 W 1.0 % RN55D-F10	9	R7,R19,R31,R43,R55,R67,R79,R91,R103
18	18		1309405-00	68.0 .50 W 5.0 % CF	2	R109,R110
19	19		1302858-00	100.0 .25 W 1.0 % RN55D-F10	9	R12,R24,R36,R48,R60,R72,R84,R96,R108
20	20		1302955-00	750.0 .25 W 1.0 % RN55D-F10	18	R1,R2,R13,R14,R25,R26,R37,R38,R49,R50,R61,R62,R73,R74,R85,R86

REVISION HISTORY		BASIC PART NO: 0G057		DRN:	J. FITZGERALD	DATE:	19-SEP-78	D I G I T A L			
ENG:	ECO NUMBER	REV	SECTION A OF A	CHK'D:	P. KENDRICK	DATE:	19-SEP-78	TITLE PARTS LIST			
CL	INIT	C	SECTION VARIATION INDEX	DES.ENG:	J.ROLLINS	DATE:	19-SEP-78	DOCUMENT NUMBER			
J.R	G057-ML002	D	[A] 00	RESP.ENG.:	M. F.	DATE:	19-SEP-78	SIZE	CODE	NUMBER	REV
R.N	G057-SH003	E	[B]	MFG.ENG.:	G.DILLARD	DATE:	19-SEP-78	K	PL	G057-0-DBP	E
			[C]	ASSEMBLY NUMBER:	D-UA-G057-0-0	TOP DOCUMENT NUMBER:	#B-DD-G057-0	FILE NAME:		Z0200E.PLS	EDIT
			[D]								10
			[E]								
			[F]								
			[G]								
			[H]								
			[I]								
			[J]								
			[K]								
			[L]								
			[M]								
			[N]								

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AUTOMATED BY PRTLST.2E(3)

P A R T S L I S T

SHEET A2 OF A2

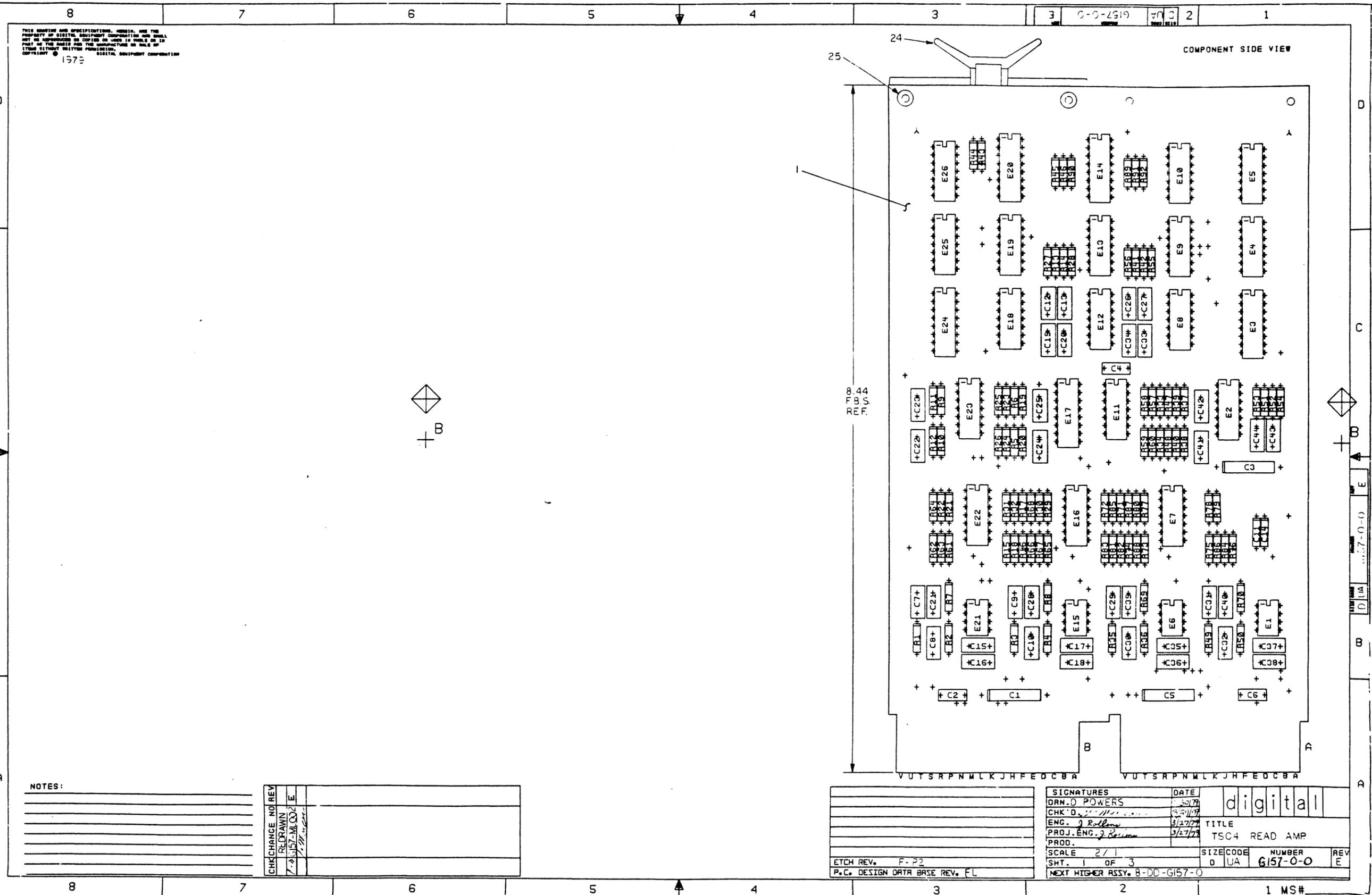
LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
21	21		1302871-00	1.21 K .25 W 1.0 * RN55D-F10	9	CONT R97,R98 R9,R21,R33,R45,R57,R69,R81,R93, R105
22	22		1303045-00	3.16 K .25 W 1.0 * RN55D-F10	18	CONT R3,R4,R15,R16,R27,R28,R39,R40, R51,R52,R63,R64,R75,R76,R87,R88, R99,R100
23	23		1312747-00	56.20 K .25 W 1.0 * RN55D-F10	18	CONT R10,R11,R22,R23,R34,R35,R46,R47, R58,R59,R70,R71,R82,R83,R94,R95, R106,R107
24	24		1312985-00	332.0 K .25 W 1.0 * RN55D-F10	18	CONT R5,R6,R17,R18,R29,R30,R41,R42, R53,R54,R65,R66,R77,R78,R89,R90, R101,R102
25	25		1315900-00	1.0 K .50 W 10.0 * POT	9	CONT R8,R20,R32,R44,R56,R68,R80,R92, R104
26	26		1501883-00	DEC2219-2 NPN 3WC SI 30100 M	1	Q1
27	27		1504809-00	2N 4234 PNP 5W TO-5	1	Q2
28	28		1611257-01	CHOKE(CERAMIC BEAD)AXIAL LEAD,ON	2	L1,L2
29	29		1210385-01	PCB HEADER PIN	11	TP0-TP10
30	30		1210001-00	HEAT SINKS,TO-5 .500DX0.25	2	
31	31		9007201-00	PAD,MOUNTING,COMPONENT	2	
32	32		1300365-00	1.0 K .25 W 5.0 * CF	9	R121-R129
33	33		1009957-00	.0022 MFD 100V 10% MYLR	9	C81-C89
34	34	QTY IS IN INCHES.	9107254-09	TUBING,SHRINK .187ID EXP	16	

35 NOTE: USED ON: OPTION/MODEL TS04
 36 NOTE: ITEMS 32, 33, AND 34 WHEN ASSEMBLED MAKE Z1-Z9.

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							TS04 PRE-AMP		K	PL	G057-0-DBP	E

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 DIGITAL EQUIPMENT CORPORATION
 1979

COMPONENT SIDE VIEW



NOTES:

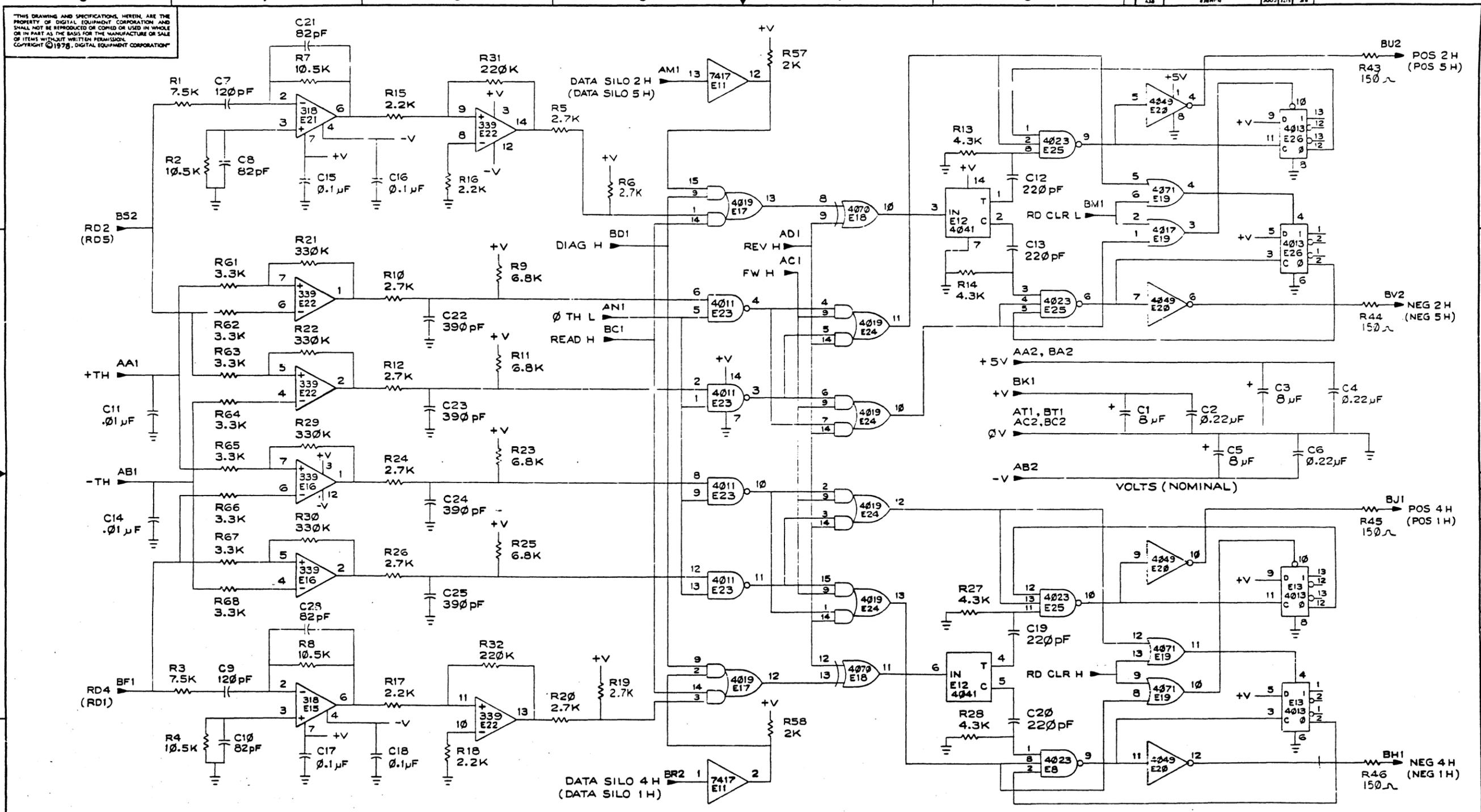
CHANGE NO	REV
1	1
2	1
3	1
4	1
5	1
6	1
7	1
8	1

ETCH REV. F-P2
 P.C. DESIGN DATA BASE REV. FL

SIGNATURES	DATE	TITLE
DRN. D POWERS	3/27/79	TSC4 READ AMP
CHK'D	3/27/79	
ENG. J. Rollins	3/27/79	
PROJ. ENG. J. Rollins	3/27/79	
PROD.		
SCALE 2/1	SIZE CODE	NUMBER
SHT. 1 OF 3	0 UA	6157-0-0
NEXT HIGHER ASSY. B-DC-6157-0		

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1-0-2919 300 2

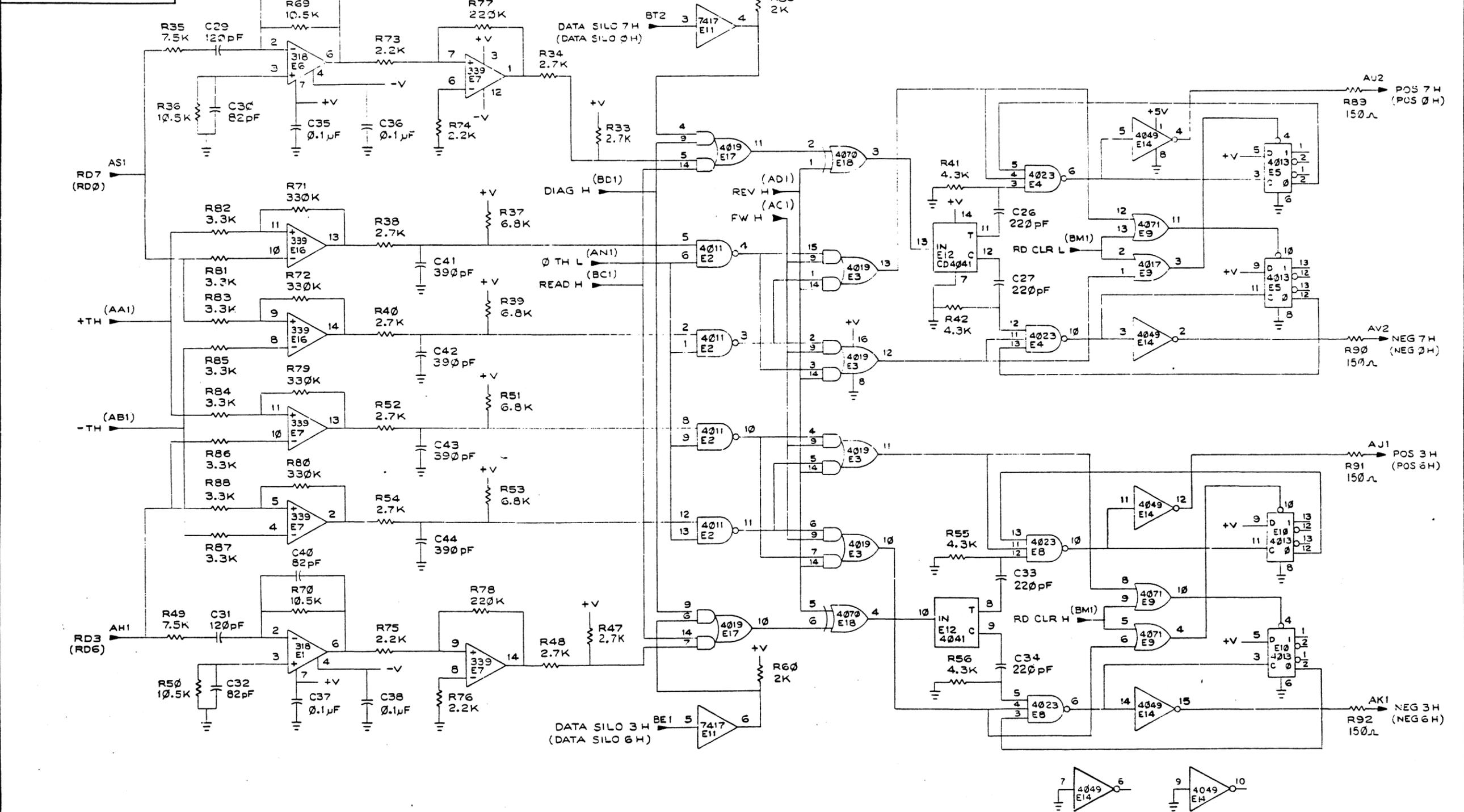


REV.	CHG.	BY	DATE
1			
2			
3			
4			
5			
6			
7			
8			

DRN. J. CARTER	6-197	FIRST USED ON	TS04	digital
CHK'D		DATE		
ENG. J. P. ...	10-1-78	TITLE	TS04	
PROJ. ENG. ...	10-8-78		READ AMP	
PROJ. ENG. ...	10-10-78			
PROJ. ENG. ...	11-1-78			
NEXT HIGHER ASSY.				
B-DD-G157-0	SIZE	CODE	NUMBER	REV.
SCALE	D	CS	G157-0-1	E
SHEET 1 OF 2	DIST.			

REV. E
D
C
B
A

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REVISIONS		
CHK	CHANGE NO.	REV.

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					CO		
1	1	D-MD-5011898-0-0	5011898-00	G157	1		
2	2		1013292-00	*** THIS ITEM IS NOT USED ***	-		
3	3		1010274-01	.22 MFI 50V -20+80 Z5U CER	3		C2,C4,C6
4	4		1004813-00	*** THIS ITEM IS NOT USED ***	-		
5	5		1000016-00	*** THIS ITEM IS NOT USED ***	-		
6	6		1000006-00	*** THIS ITEM IS NOT USED ***	-		
7	7		1100114-00	*** THIS ITEM IS NOT USED ***	-		
8	8		1300271-00	*** THIS ITEM IS NOT USED ***	-		
9	9		1300365-00	*** THIS ITEM IS NOT USED ***	-		
10	10		1301423-00	6.8 K 1/4W 5% CC	8		R9,R11,R23,R25,R37,R39,R51,R53
11	11		1300426-00	2.7 K 1/4W 5% CC	16		R5,R10,R12,R20,R24,R26,R34,R38, CONT R40,R48,R52,R54,R6,R19,R33,R47
12	12		1302456-00	*** THIS ITEM IS NOT USED ***	-		
13	13		1300479-00	*** THIS ITEM IS NOT USED ***	-		
14	14		1302398-00	*** THIS ITEM IS NOT USED ***	-		
15	15		1302389-00	4.3 K 1/4W 5% CC	8		R13,R14,R27,R28,R41,R42,R55,R56
16	16		1910735-02	318 OP AMP	4		E1,E6,E15,E21
17	17		1912108-00	339 VOLT CMPRTR,QUAD	3		E7,E16,E22
18	18		2113612-00	4019B AND-OR SELECT GATE-Q	3		E3,E17,E24
19	19		2113634-00	4070B X-OR GATE-QUAD CMOS	1		E18
20	20		2113607-00	4011UBNAND GATE-QUAD 2IN C	2		E2,E23
21	21		2113621-00	4041B BUFFER GATE-QUAD TRU	1		E12
22	22		2113627-00	4049UBINVERTER-HEX BUFFER-	2		E14,E20
23	23		2113635-00	4071B OR GATE-QUAD 2IN CMO	2		E9,E19
24	24		9008337-01	HANDLE, FLIP CHIP, GREEN	2		
25	25		9006732-00	EYELET, ROLLED FLANGE, .121 OD X	4		
26	26		1302388-00	2 K 1/4W 5% CC	4		R57-R60
27	27		1909929-00	7417 BUFFER GATE-HEX 1INP	1		E11
28	28		2113609-00	4013B FF-D DUAL W/SET/RESE	4		E5,E10,E13,E26

REVISION HISTORY			BASIC PART NO:	OG157			D I G I T A L			
ENG	ECO NUMBER	REV	SECTION A	OF A	DRN:	P. KENDRICK	DATE:	16-SEP-78	TITLE	PARTS LIST
C.L	G157-ML001	D	SECTION VARIATION INDEX		CHK'D:	P. BOSSMAN	DATE:	16-SEP-78	TS04 READ AMP	
	G157-ML002	E	[A]	00						
			[B]							
			[C]		DES.ENG:	H. FINDEISEN	DATE:	16-SEP-78		
			[D]							
			[E]							
			[F]		RESP.ENG.:	H. FINDEISEN	DATE:	16-SEP-78	DOCUMENT NUMBER	
			[G]							
			[H]							
			[I]							
			[J]							
			[K]		MFG.ENG.:	G. DILLARD	DATE:	16-SEP-78	SIZE	CODE
			[L]						NUMBER	REV
			[M]							
			[N]		ASSEMBLY NUMBER:				FILE NAME:	EDIT #
					D-UA-G157-0-0				Z0476E.PLS	7

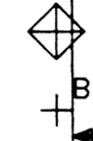
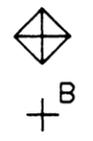
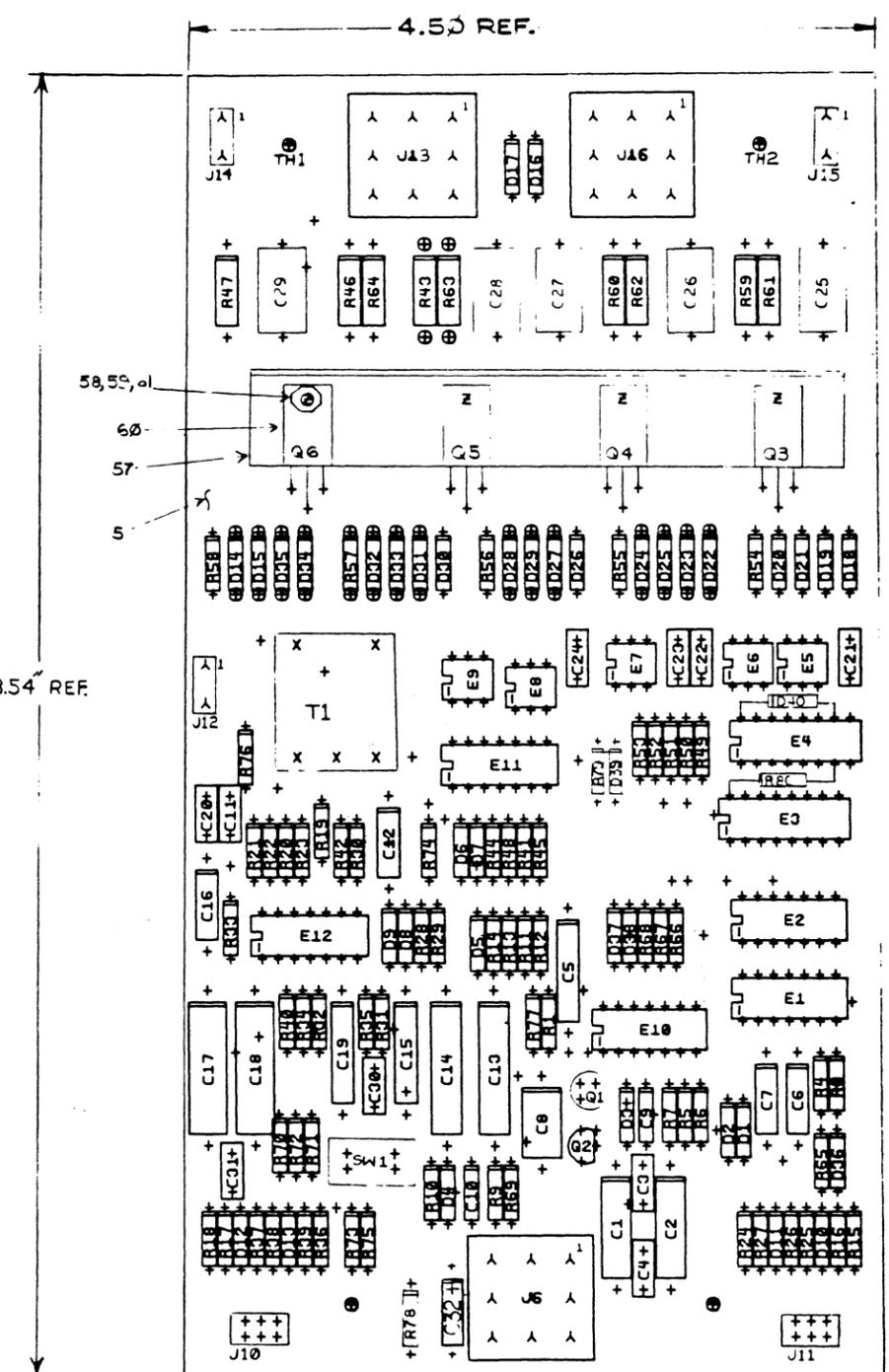
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LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
29	29	2113613-00	4023B NAND GATE-TRIPLE 3IN	3	E4,E8,E25
30	30	9105740-55	*** THIS ITEM IS NOT USED ***	-	
31	31	B-DD-G157-0-0	DRAWING DIRECTORY	REF	
32	32	D-CS-G157-0-1	CIRCUIT SCHEMATIC	REF	
33	33	1305322-00	7.5 K 1/4W 1% RN55D-F 100PPM	4	R1,R3,R35,R49
34	34	1300417-00	2.2 K 1/4W 5% CC	8	R15-R18,R73-R76
35	35	1312987-00	10.5 K 1/4W 1% RN55D-1052F	8	R2,R4,R7,R8,R36,R50,R69,R70
36	36	1300439-00	3.3 K 1/4W 5% CC	16	R61-R68,R81-R88
37	37	1302092-00	220 K 1/4W 5% CC	4	R31,R32,R77,R78
38	38	1000018-00	120.0 MMF 100V 5%200PPM DM15S	4	C7,C9,C29,C31
39	39	1000015-00	82.0 MMF 100V 5%200PPM DM15S	8	C8,C10,C21,C28,C20,C32,C39,C40
40	40	1001610-00	.01 MFD 50V -20+80 Z5U AXIAL	2	C11,C14
41	41	1010978-36	.1 MFD 50V 10% 2C067 CER	8	C15-C18,C35-C38
42	42	1001631-00	390.0 MMF 100V 5%200PPM DM15S	8	C22-C25,C41-C44
43	43	1302091-00	330 K 1/4W 5% CC	8	R21,R22,R29,R30,R71,R72,R79,R80
44	44	1300250-00	150 1/4W 5% CC	8	R43-R46,R89-R92
45	45	1012084-01	8 MFD 25V 6% 30D AL EL	3	C1,C3,C5
46	46	1000021-00	220.0 MMF 100V 5%200PPM DM15S	8	C12,C13,C19,C20,C26,C27,C33,C34
*****			RELEASABLE	*****	

! D ! I ! G ! I ! T ! A ! L !	! TITLE	! SECTION A OF A	! SIZE ! CODE !	! DOCUMENT NUMBER	! REV !
! ! ! ! ! ! ! !	TS04 READ AMP	! ! ! ! ! ! ! !	! K ! PL !	G157-0-DBP	! E !

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COMPONENT SIDE VIEW



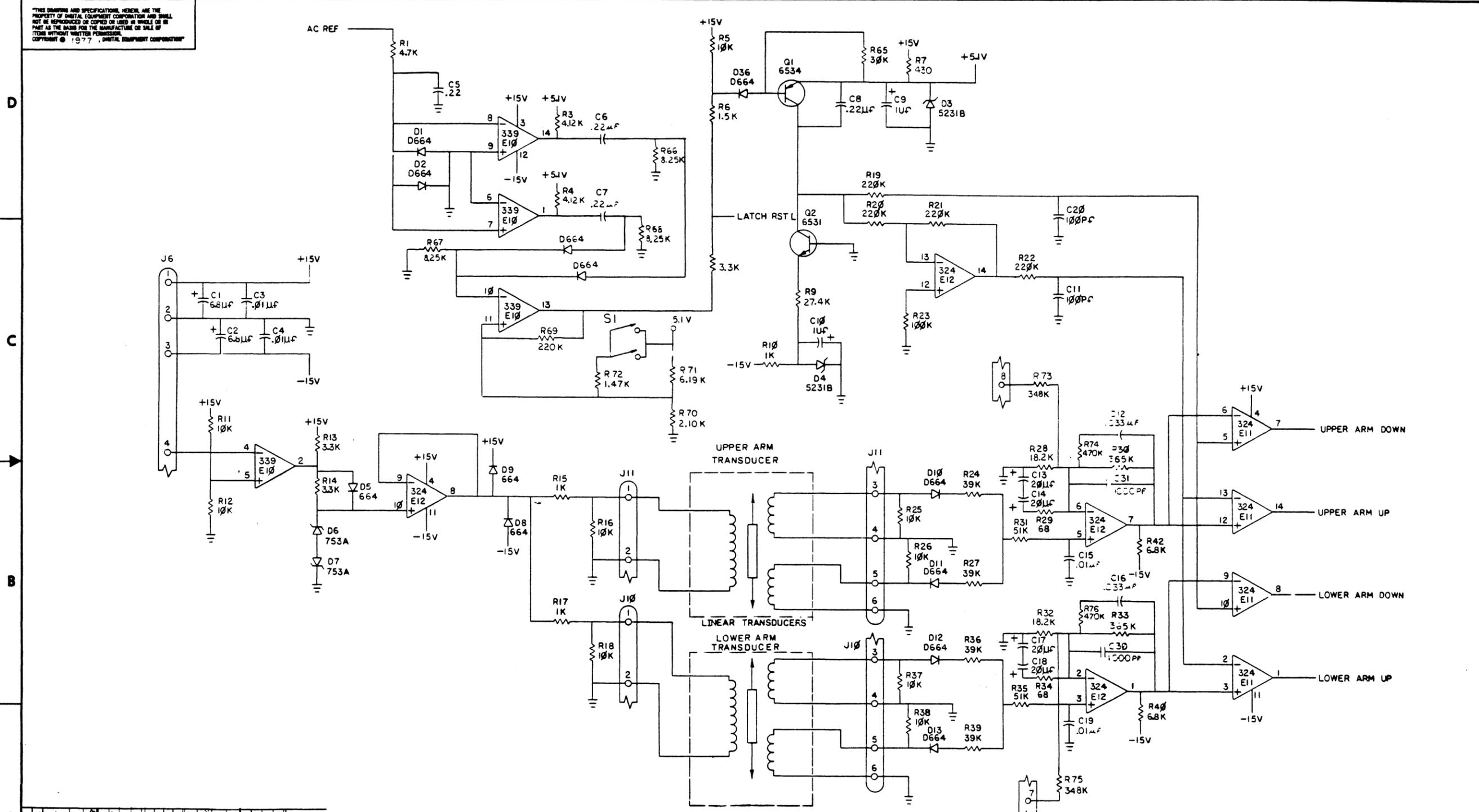
NOTES:
 1. THIS BOARD MUST MEET U.S. REQUIREMENTS.
 2. ECO-MLOG4 REV.00X INSTRUCTIONS NOT REQUIRED PER ENGINEER BOB NUTE.

CHANGE NO	REV	DATE	BY	CHKD	APP'D
1	G158-ML001	E	10/1/73		
2	G158-ML002	F	11/1/73		
3	G158-ML003	H	11/1/73		
4	G158-ML004	J	11/1/73		
5	G158-ML005	K	11/1/73		

ETCH REV. F-P
P.C. DESIGN DATA BASE REV. F

SIGNATURES	DATE	TITLE
DAN. D. DUNGLIN	3/3/73	digital
CHK. D. WATSON	8/7/73	
PROJ. ENG. [Signature]	11/1/73	REEL SERVO
SCALE 2X1	SIZE CODE	NUMBER
SMT. 1 OF 3	0 UA G158-0-0	REV K
NEXT HIGHER ASSY. B-DD-G-58-B		

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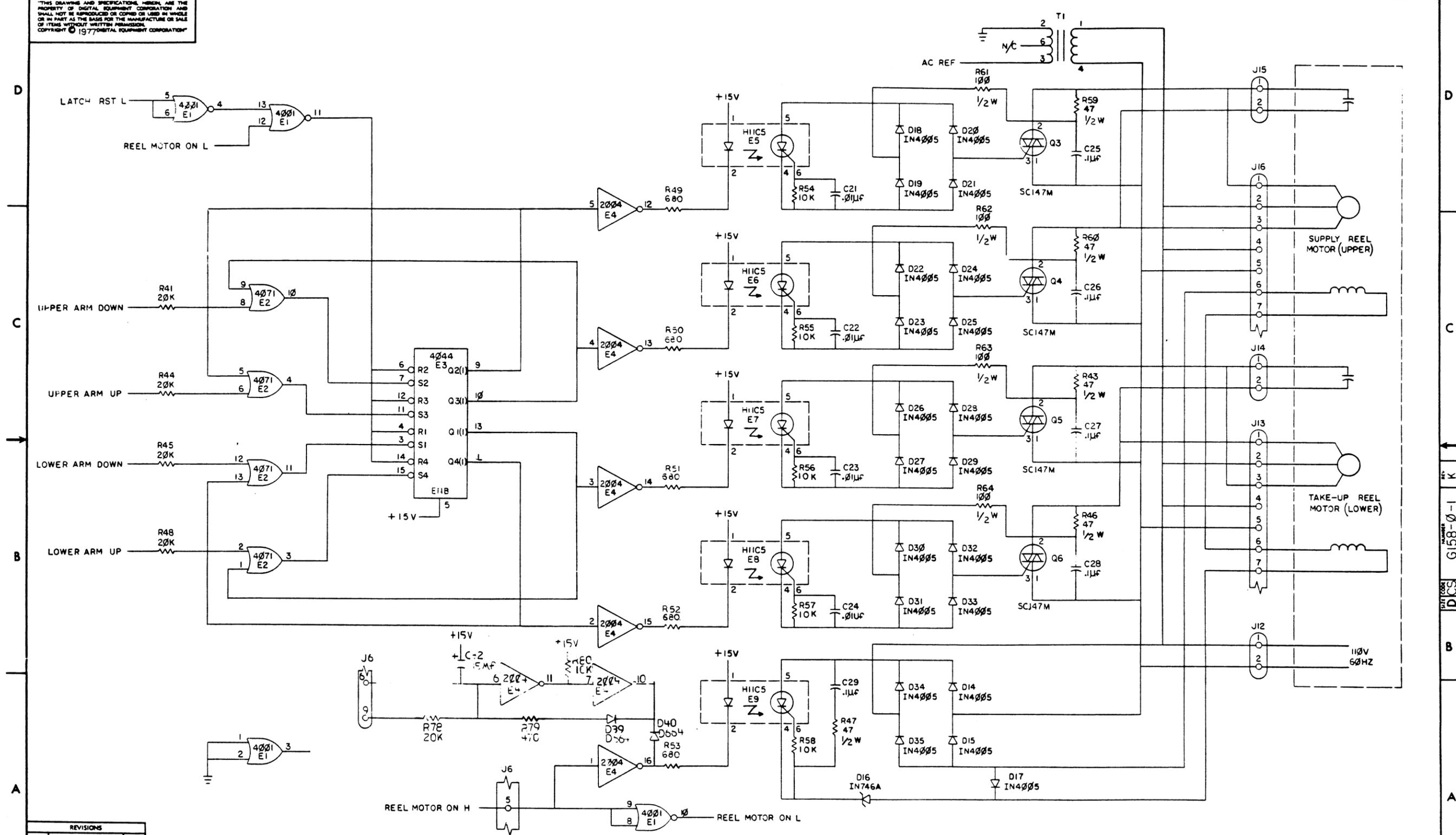


REV.	CHG.	BY	DATE
1	1	G.158-ML001	E
2	1	R. NUTE	11/28/77
3	1	G.158-ML002	F
4	1	M. CUCINA	12/22/77
5	1	G.158-ML003	H
6	1	X. KINUT	8/1/78
7	1	G.158-ML004	J
8	1	B. NUTE	1/2/78
9	1	G.158-SH006	K
10	1	R. GLEIM	11/27/83

DRM. S. G. 11-4-77	FIRST USED ON	TS04
CHKD. 1/2/78	DATE	11-2-77
ENG. H. Friedman	DATE	3.7.78
PROJ. ENG. H. Friedman	DATE	3.7.78
PROJ. ENGR. H. Friedman	DATE	3.7.78
NEXT HIGHER ASSY.		
B-00-G-58-0	SIZE	CODE
SCALE	D	CS
SHEET	OF	2
DST.		REV.
SHO		1

TS04
 REEL SERVO

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REVISIONS		
CHK	CHANGE NO.	REV.

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
1	1	D-CS-G158-0-1		CIRCUIT SCHEMATIC	REF		
2	2	D-UA-G158-0-0		UNIT ASSY	REF		
3	3	B-DD-G158-0-0		DWG DIRECTORY	REF		
4	4	D-MD-5011917-0-0		DRILL & ETCH DWG	REF		
5	5		5011917-00	G158	1		
6	6		1000002-01	20 MFD 50V 5% S.TANT	4		C13,C14,C17,C18
7	7		1000016-00	100.0 MMF 100V 5%200PPM MICA	2		C11,C20
8	8		1000050-00	.033 MFD 100V 80V 10% MYL	2		C12,C16
9	9		1001610-00	.01 MFD 50V +80-20% Z5U CER	6		C3,C4,C21-C24
10	10		1001776-00	1 MFD 35V 10% S.TANT	2		C9,C10
11	11		1002630-00	*** THIS ITEM IS NOT USED ***	-		
12	12		1005306-00	6.8MFD 35V 10% S.TANT	2		C1,C2
13	13		1005784-00	.01 MFD 100V 200V 10% MYL	2		C15,C19
14	14		1010031-03	.22 MFD 50V 10% M.POLYCARB	4		C8,C6,C7,C5
15	15		1010075-00	.1 MFD 400V 20% MYLR	5		C25-C29
16	16		1100114-00	D 664 QS\75PCB PIV= 25V SP	14		D1,D2,D5,D8-D13,D36,D37,D38-D40,
17	17		1102421-00	1N 753A VZ= 6.2 5% .40W P	2		D6,D7
18	18		1104860-00	1N 746A VZ= 3.3 5%	1		D16
19	19		1109443-00	1N 5231B VZ= 5.1 5% .50W Y	2		D3,D4
20	20		1110967-00	1N 4005 PIV=600 I= 1A D041 SI	21		D14,D15,D17-D35
21	21		1114344-00	H11C5 SCR@400V I=10A	5		E5-E9
22	22		1212297-00	MATE-N-LOK 02PIN(1X02).250CC HDR	3		J12,J14,J15
23	23		1212297-02	MATE-N-LOK 09PIN(2X05).250CC HDR	3		J13,J16,J6
24	24		1212297-05	*** THIS ITEM IS NOT USED ***	-		
25	25		1213488-01	PCB,HEADER 06PIN(2X03).100CC STR	2		J10,J11
26	26		1300219-00	68.0 .25 W 5.0 % CF	2		R29,R34
27	27		1300228-00	100.0 .50 W 5.0 % CF	4		R61-R64
28	28		1300365-00	1.0 K .25 W 5.0 % CF	3		R10,R15,R17
29	29		1300391-00	1.50 K .25 W 5.0 % CF	1		R6
30	30		1300439-00	3.30 K .25 W 5.0 % CF	3		R13,R14,R77

REVISION HISTORY			BASIC PART NO: 0G158	DRN: P.KENDRICK	DATE: 19-DEC-77	D I G I T A L				
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D: R.A.M.	DATE: 19-DEC-77	TITLE PARTS LIST				
	INIT	D	SECTION VARIATION INDEX	DES.ENG: H.FINDEISEN	DATE: 02-MAR-78	DOCUMENT NUMBER				
J.R.	G158-ML001	E	[A] 00	RESP.ENG.: H.FINDEISEN	DATE: 02-MAR-78	SIZE	CODE	NUMBER	REV	
M.C.	G158-ML002	F	[B]	MFG.ENG.: P.BARTON	DATE: 02-MAR-78	K	PL	G158-0-DBP	K	
BN	G158-ML003	H	[C]	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME:		EDIT #		
BN	G158-ML004	J	[D]	D-UA-G158-0-0	TS04	Z0464K.PLS		23		
RG	G158-SH006	K	[E]							
			[F]							
			[H]							
			[J]							
			[K]							
			[L]							
			[M]							
			[N]							

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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					00		
31	31		1300447-00	4.70 K .25 W 5.0 % CF	1		R1
32	32		1300479-00	10.0 K .25 W 5.0 % CF	15		R5,R11,R12,R16,R18,R25,R26,R37, R38,R54-R58,R80
33	33		1313349-00	*** THIS ITEM IS NOT USED ***	-	CONT	
34	34		1301423-00	6.80 K .25 W 5.0 % CF	2		R40,R42
35	35		1301695-00	47.0 .50 W 5.0 % CF	5		R59,R60,R43,R46,R47
36	36		1302092-00	220.0 K .25 W 5.0 % CF	5		R19-R22,R69
37	37		1302177-00	*** THIS ITEM IS NOT USED ***	-		
38	38		1302391-00	20.0 K .25 W 5.0 % CF	5		R41,R44,R45,R48,R78
39	39		1302394-00	30.0 K .25 W 5.0 % CF	1		R65
40	40		1302465-00	*** THIS ITEM IS NOT USED ***	-		
41	41		1302466-00	100.0 K .25 W 5.0 % CF	1		R23
42	42		1302514-00	39.0 K .25 W 5.0 % CF	4		R24,R27,R36,R39
43	43		1304839-00	51.0 K .25 W 5.0 % CF	2		R31,R35
44	44		1305130-00	*** THIS ITEM IS NOT USED ***	-		
45	45		1309417-00	27.40 K .25 W 1.0 % RN55D-F10	1		R9
46	46		1312933-00	*** THIS ITEM IS NOT USED ***	-		
47	47		1503409-01	DEC6534B PNP 310MW SI 40 90 P	1		Q1
48	48		1509338-00	DEC6531B NPN 310MW SI 40 90 P	1		Q2
49	49		1514341-00	ULN2004A NPN 1W SI ARRAY	1		E4
50	50		1514342-00	*** THIS ITEM IS NOT USED ***	-		
51	51		1609844-00	XFMR P=A S= 12.6@10MA	1		T1
52	52		1912107-02	324 OP AMP,QUAD	2		E11,E12
53	53		1912108-00	339 VOLT CMPTR,QUAD	1		E10
54	54		2113603-00	4001UBNOR GATE-QUAD 2IN CM	1		E1
55	55		2113624-00	4044B NAND R/S LATCH,QUAD	1		E3
56	56		2113635-00	4071B OR GATE-QUAD 2IN CMO	1		E2
57	57		7418017-00	HEAT SINK	1		HS1
58	58		9006011-04	SCREW,MACH BIND SLOT 4-	4		
59	59		9006557-00	NUT,HEX EXT TOOTH LCKWSHR 4-40	4		
60	60		9008268-00	COMFOUND, THERMAL JOINT	A/R		
61	61		9009769-00	WASHER,RECTNGLR STEEL	4		
62	62		1312992-00	*** THIS ITEM IS NOT USED ***	-		
63	63		1313150-00	430.0 .25 W 5.0 % CF	1		R7
64	64		1302398-00	470.0 K .25 W 5.0 % CF	2		R74,R76
65	65		1305325-00	8.25 K .25 W 1.0 % RN55D-F10	3		R66,R67,R68
66	66		1312923-00	2.10 K .25 W 1.0 % RN55D-F10	1		R70
67	67		1305108-00	1.47 K .25 W 1.0 % RN55D-F10	1		R72
68	68		1314187-00	6.19 K .25 W 1.0 % RN55D-F10	1		R71
69	69		1211164-07	SW,DIP 2POS/1PST 5VDC100MA F	1		S1
70	70		1000042-00	1000.0 MMF 100V 5*200PPM MICA	2		C30,C31
71	71		1314763-00	4.12 K .25 W 1.0 % RN55D-F10	2		R3,R4
72	72		1316576-00	348.0 K .25 W 1.0 % RN55D-F10	2		R73,R75
73	73		1305266-00	365.0 K .25 W 1.0 % RN55D-F10	2		R30,R33
74	74		1309412-00	18.20 K .25 W 1.0 % RN55D-F10	2		R28,R32
75	75		1514342-01	TRIAC 600V 10A	4		Q3-Q6
76	76		1301424-00	680.0 .25 W 5.0 % CF	5		R49-R53
77	77		1300316-00	470.0 .25 W 5.0 % CF	1		R79

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							TS04 REEL SERVO		K	PL	G158-0-DBP	K

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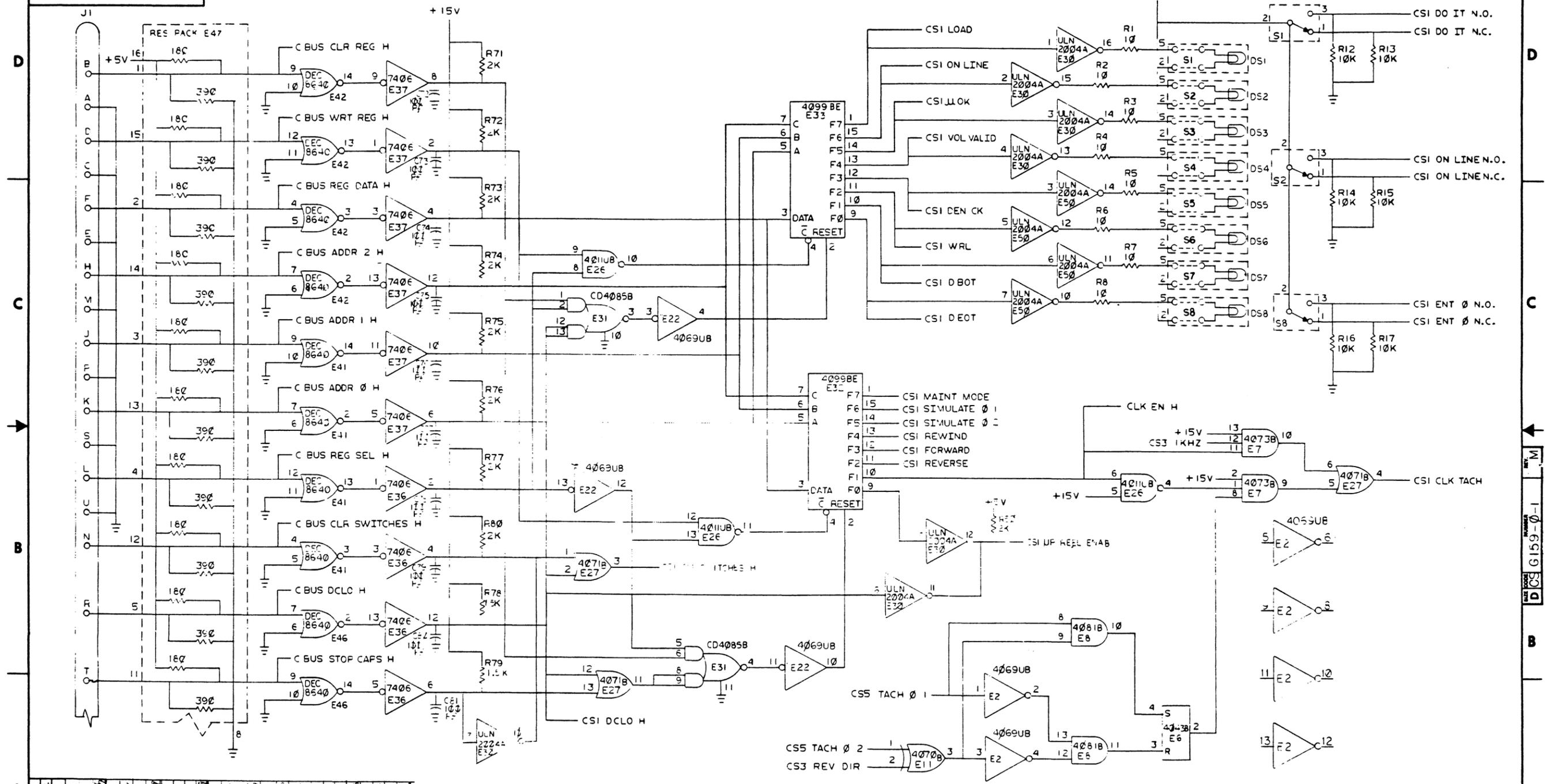
P A R T S L I S T

SHEET A3 OF A3

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
78	78		1004812-00	15 MFD 20V 10% S.TANT	1	C32

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							TS04 REEL SERVO		K	PL	G158-0-DBP	K

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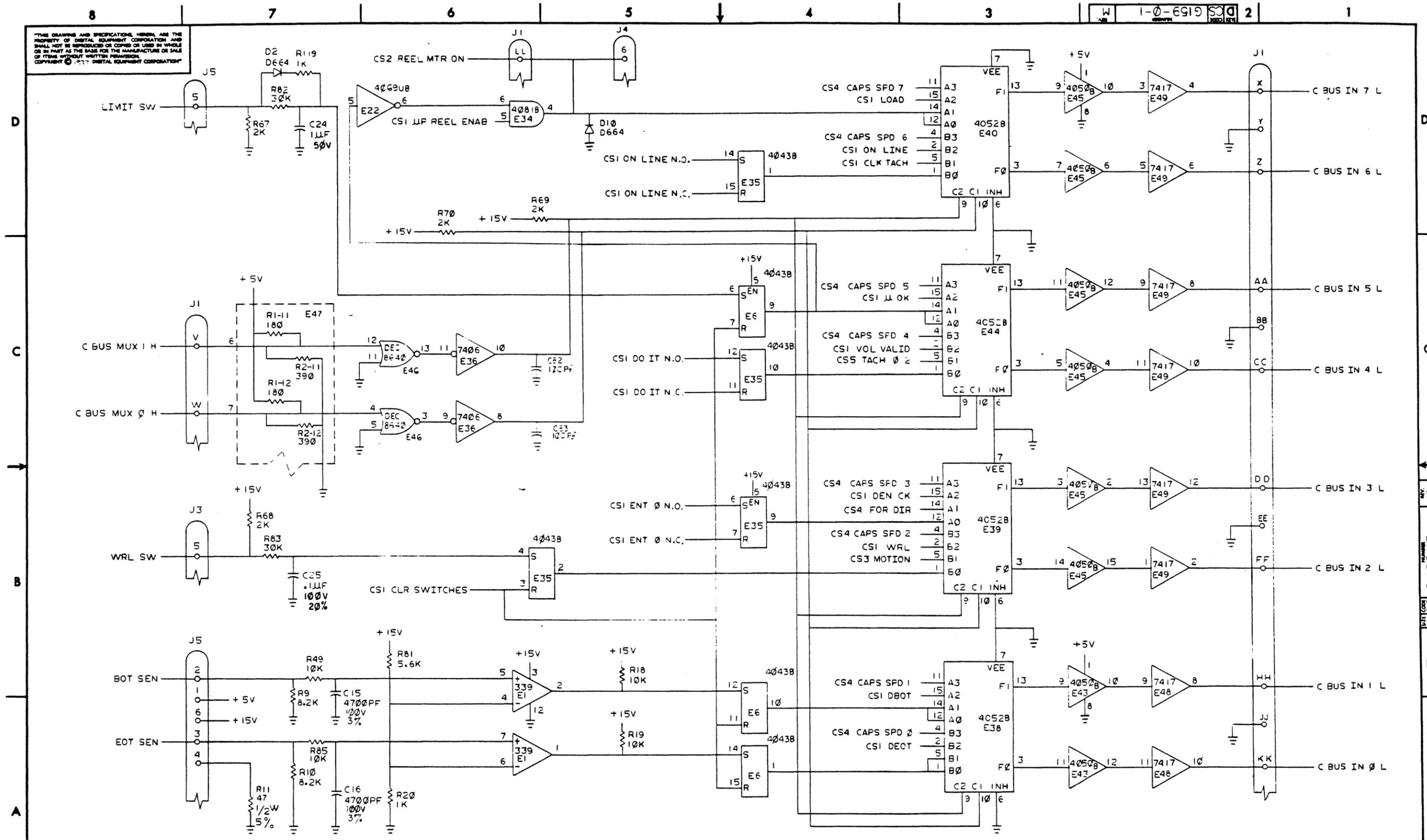


REV.	NO.	DATE	BY	CHK
1	1	11/17/77	B. KRASNICK	F
2	1	12/1/77	B. KRASNICK	F
3	1	12/1/77	B. KRASNICK	F
4	1	12/1/77	B. KRASNICK	F
5	1	12/1/77	B. KRASNICK	F
6	1	12/1/77	B. KRASNICK	F
7	1	12/1/77	B. KRASNICK	F
8	1	12/1/77	B. KRASNICK	F
9	1	12/1/77	B. KRASNICK	F
10	1	12/1/77	B. KRASNICK	F
11	1	12/1/77	B. KRASNICK	F
12	1	12/1/77	B. KRASNICK	F
13	1	12/1/77	B. KRASNICK	F
14	1	12/1/77	B. KRASNICK	F
15	1	12/1/77	B. KRASNICK	F
16	1	12/1/77	B. KRASNICK	F
17	1	12/1/77	B. KRASNICK	F
18	1	12/1/77	B. KRASNICK	F
19	1	12/1/77	B. KRASNICK	F
20	1	12/1/77	B. KRASNICK	F

DRN. JIM SHERMAN 12/1/77	FIRST USED ON	TS11	Digital
CHK'D C. BROWN 12/1/77	TITLE	CAPSTAN SERVO (CSI)	
ENG. B. KRASNICK 12/1/77	PROJ. ENG. C. BROWN 12/1/77	SIZE CODE	NUMBER
PROD. P. J. BROWN 12/1/77	SCALE NONE	D	CS G159-0-1
NEXT HIGHER ASSY.	SHEET 1 OF 5	DIST.	REV. M

D CS G159-0-1

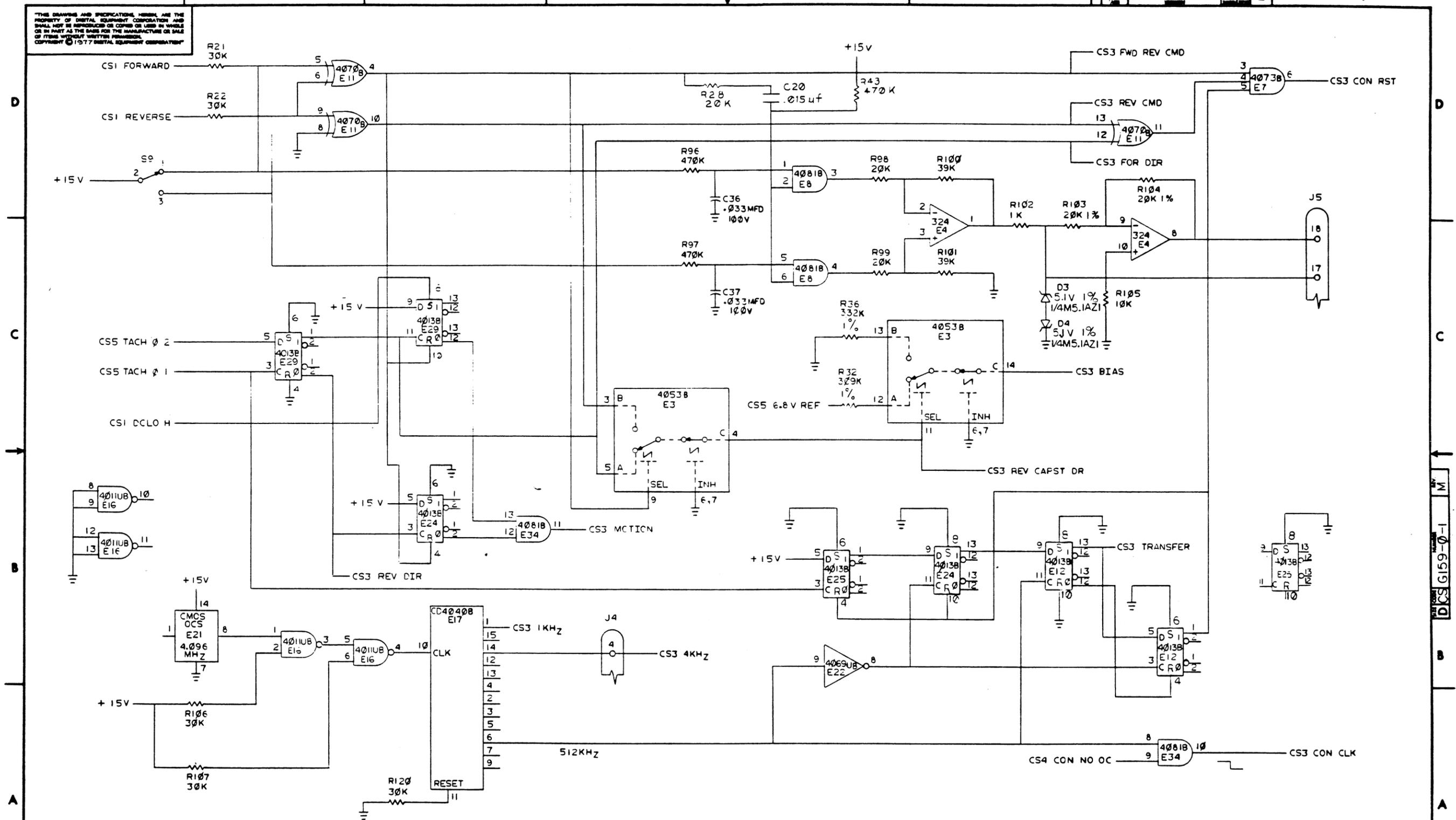
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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	CAPSTAN SERVO (CS2)	SIZE CODE	D CS	NUMBER	G159-0-1	REV.	M
SCALE	NONE	SHEET	2 OF 5	DIST.			

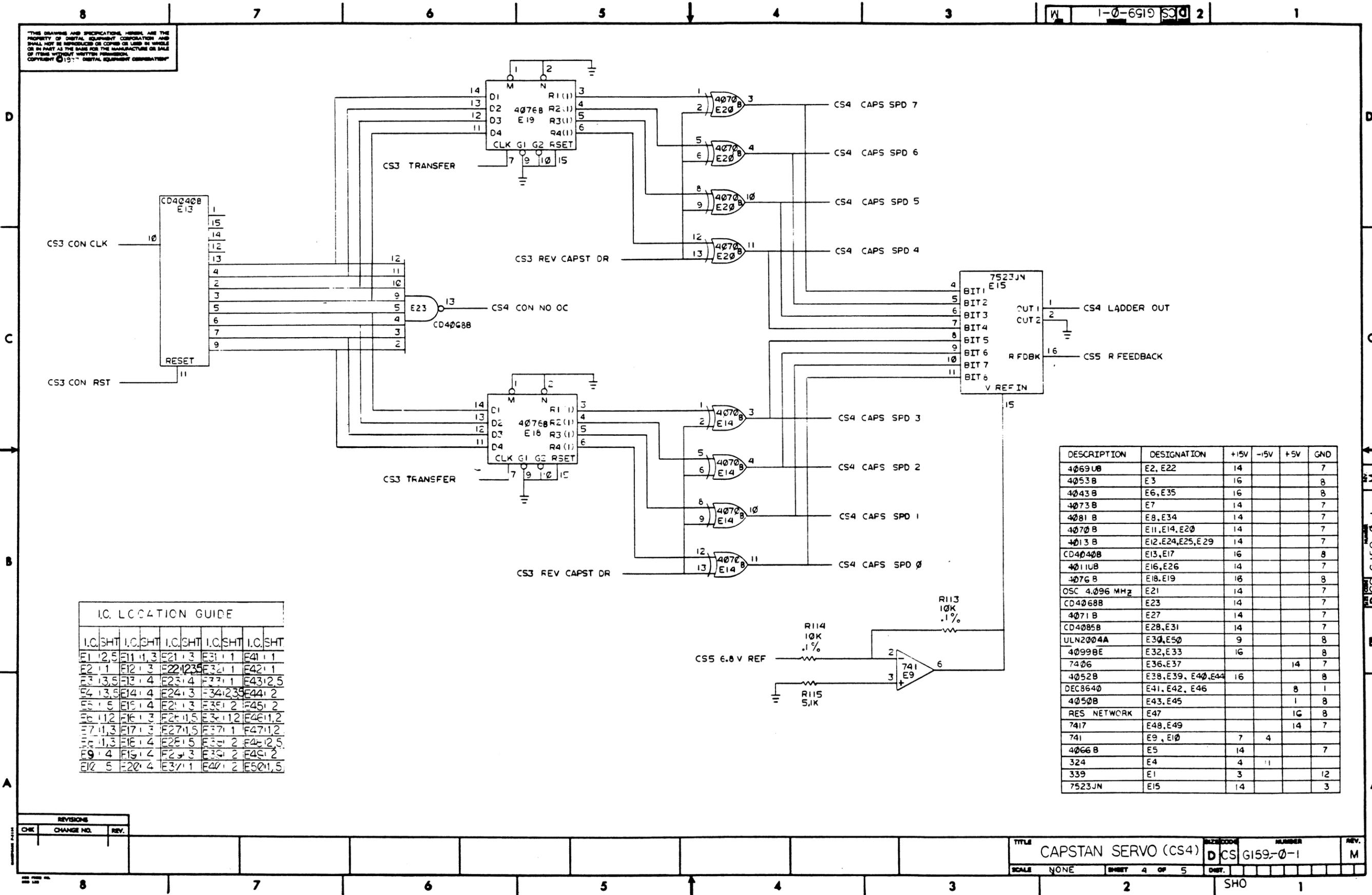
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REVISIONS		
CHK	CHANGE NO.	REV.

DCS G159-0-1 M

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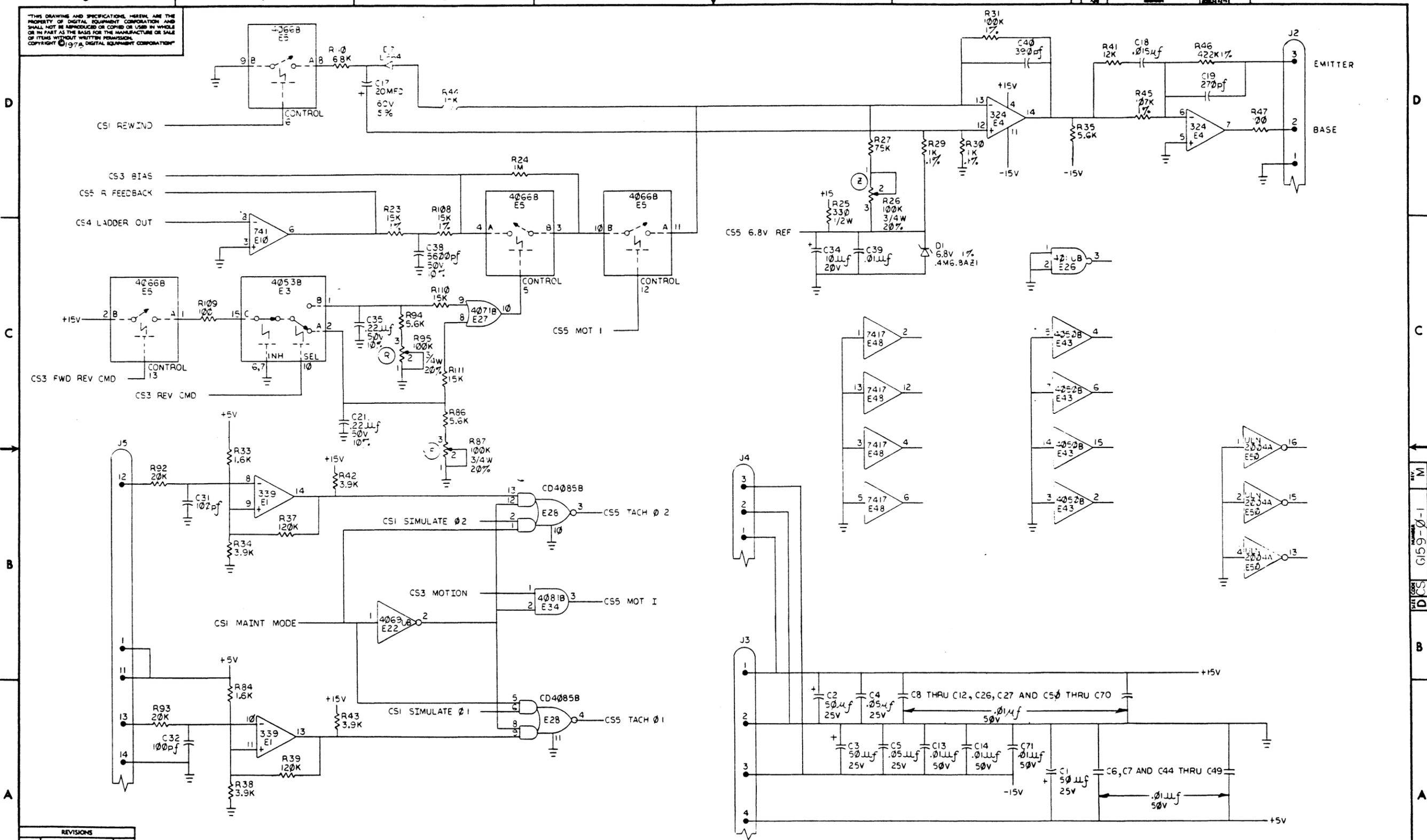


I.C. LOCATION GUIDE					
I.C.	SHT	I.C.	SHT	I.C.	SHT
E1	12,5	E11	1,3	E21	1,3
E2	1,1	E12	1,3	E22	1,3
E3	13,5	E13	1,4	E23	1,4
E4	13,5	E14	1,4	E24	1,3
E5	1,5	E15	1,4	E25	1,3
E6	11,2	E16	1,3	E26	1,5
E7	1,3	E17	1,3	E27	1,5
E8	1,3	E18	1,4	E28	1,5
E9	1,4	E19	1,4	E29	1,3
E10	5	E20	4	E30	1,1
				E31	1,1
				E32	1,1
				E33	1,1
				E34	1,1
				E35	1,1
				E36	1,1
				E37	1,1
				E38	1,1
				E39	1,1
				E40	1,1
				E41	1,1
				E42	1,1
				E43	1,1
				E44	1,1
				E45	1,1
				E46	1,1
				E47	1,1
				E48	1,1
				E49	1,1
				E50	1,1

DESCRIPTION	DESIGNATION	+15V	-15V	+5V	GND
4069UB	E2, E22	14			7
4053B	E3	16			8
4043B	E6, E35	16			8
4073B	E7	14			7
4081B	E8, E34	14			7
4070B	E11, E14, E20	14			7
4013B	E12, E24, E25, E29	14			7
CD4040B	E13, E17	16			8
4011UB	E16, E26	14			7
4076B	E18, E19	16			8
OSC 4.096 MHz	E21	14			7
CD4068B	E23	14			7
4071B	E27	14			7
CD4085B	E28, E31	14			7
ULN2004A	E30, E50	9			8
4099BE	E32, E33	16			8
7406	E36, E37			14	7
4052B	E38, E39, E40, E44	16			8
DEC8640	E41, E42, E46			8	1
4050B	E43, E45			1	8
RES NETWORK	E47			16	8
7417	E48, E49			14	7
741	E9, E10	7	4		
4066B	E5	14			7
324	E4	4	11		
339	E1	3			12
7523JN	E15	14			3

REVISIONS		
CHK	CHANGE NO.	REV.

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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	CAPSTAN SERVO (CS5)	SIZE CODE	D CS	NUMBER	G159-0-1	REV.	M
SCALE	1/1	SHEET	5 OF 5	DIST.			

REV. M
G159-0-1

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					00		
1	1		5012399-00	G159	1		
2	2		1000016-00	100.0 MMF 100V 5%200PPM MICA	14		C31,C32,C72-C83
3	3		1000022-00	270.0 MMF 100V 5%200PPM MICA	1		C19
4	4		1010978-36	.1 MFD 50V 10% CER	1		C25
5	5		1001383-00	4700.0 MMF 100V 3%200PPM MICA	2		C15,C16
6	6		1001610-00	.01 MFD 50V +80-20% Z5U CER	40		C6-C14,C26,C27,C39,C44-C71
7	7		1001631-00	390.0 MMF 100V 5%200PPM MICA	1		C40
8	8		1001774-00	.05 MFD 25V 10% Y5U DISC	2		C4,C5
9	9		1001796-00	50 MFD 25V +75-10% AL EL	3		C1-C3
10	10		1010716-00	20 MFD 60V 5% W.TANT	1		C17
11	11		1004813-00	10 MFD 20V 10% S.TANT	1		C34
12	12		1010031-03	.22 MFD 50V 10% M.POLYCARB	2		C21,C35
13	13		1010274-02	1 MFD 50V +80-20% CER	1		C24
14	14		1010646-00	.015 MFD 50V 2% M.POLYCARB	1		C18
15	15		1011740-00	5600.0 MMF 50V 10% CER	1		C38
16	16		1000050-00	.033 MFD 100V 80V 10% MYL	2		C36,C37
17	17		1100114-00	D 664 QS\75PCB PIV= 25V SP	3		D2,D7,D10
18	18		1109991-01	4M6.8AZ1 VZ= 6.8 1% .40W	1		D1
19	19		1105871-00	1/4M5.1AZ1 = 5.1 1% .25W N	2		D3,D4
20	20		1209941-02	PCB,HEADER 40PIN(2X20).100CC 90D	1		J1
21	21	USED ON J1	1209941-03	PCB,HEADER LATCH	1		
22	22	USED ON J1	1209941-04	PCB,HEADER LATCH	1		
23	23		1211180-00	/REPLACED BY 12-11180-02	1		S9
24	24		1212297-03	MATE-N-LOK 03PIN(1X03).250CC HDR	1		J2
25	25		1212297-05	MATE-N-LOK 06PIN(2X03).250CC HDR	2		J3,J4
26	26		1213335-00	PCB,HEADER 20POS(2X10).100CC 90D	1		J5
27	27	USED FOR S1-S8	1214343-02	SW,PB LT 2PDT 8SEC W/BUTTONS 1A	1		
28	28		1300229-00	100.0 .25 W 5.0 % CF	2		R47,R109
29	29		1300296-00	330.0 .50 W 5.0 % CF	1		R25
30	30		1300365-00	1.0 K .25 W 5.0 % CF	3		R20,R102,R119

REVISION HISTORY		BASIC PART NO: OG159		DRN:	MILT RIPLEY	DATE:	17-OCT-78	D I G I T A L			
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D:	P. BOSSMAN	DATE:	09-NOV-78	TITLE PARTS LIST			
	INIT	D	SECTION VARIATION INDEX	DES. ENG:	B. KRASNICK <td>DATE:</td> <td>09-NOV-78 <td colspan="4">DOCUMENT NUMBER</td> </td>	DATE:	09-NOV-78 <td colspan="4">DOCUMENT NUMBER</td>	DOCUMENT NUMBER			
B.K	G159-ML002	E	[A] 00	RESP. ENG.:	B. KRASNICK <td>DATE:</td> <td>09-NOV-78 <td>SIZE</td> <td>CODE</td> <td>NUMBER</td> <td>REV</td> </td>	DATE:	09-NOV-78 <td>SIZE</td> <td>CODE</td> <td>NUMBER</td> <td>REV</td>	SIZE	CODE	NUMBER	REV
B.K	G159-ML003	F	[B]	MFG. ENG.:	P. BARTON <td>DATE:</td> <td>09-NOV-78</td> <td>K</td> <td>PL</td> <td>G159-0-DBP</td> <td>M</td>	DATE:	09-NOV-78	K	PL	G159-0-DBP	M
BK	G159-ML004	H	[C]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #	
RN	G159-ML007	K	[D]		D-UA-G159-0-0		B-DD-G159-0-0	Z0517M.PLS		29	
RN	G159-ML009	L	[E]								
RN	G159-SH010	M	[F]								
			[G]								
			[H]								
			[I]								
			[J]								
			[K]								
			[L]								
			[M]								
			[N]								

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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					00		
31	31		1300444-00	3.90 K .25 W 5.0 % CF	4		R34,R38,R42,R43
32	32		1300479-00	10.0 K .25 W 5.0 % CF	11		R12-R19,R49,R85,R105
33	33		1300488-00	12.0 K .25 W 5.0 % CF	1		R41
34	34		1313752-00	15.0 K .25 W 1.0 % RN55D-F10	2		R23,R108
35	35		1300539-00	120.0 K .25 W 5.0 % CF	2		R37,R39
36	36		1301317-00	10.0 .25 W 5.0 % CF	8		R1-R8
37	37		1301695-00	47.0 .50 W 5.0 % CF	1		R11
38	38		1301808-00	*** THIS ITEM IS NOT USED ***	-		
39	39		1301874-00	5.60 K .25 W 5.0 % CF	4		R35,R81,R86,R94
40	40		1300496-00	15.0 K .25 W 5.0 % CF	3		R110,R111,R44
41	41		1302388-00	2.0 K .25 W 5.0 % CF	13		R67-R77,R80,R50
42	42		1302391-00	20.0 K .25 W 5.0 % CF	5		R28,R92,R93,R98,R99
43	43		1302394-00	30.0 K .25 W 5.0 % CF	7		R21,R22,R82,R83,R106,R107,R120
44	44		1302398-00	470.0 K .25 W 5.0 % CF	3		R48,R96,R97
45	45		1302514-00	39.0 K .25 W 5.0 % CF	2		R100,R101
46	46		1303044-00	100.0 K .25 W 1.0 % RN55D-F10	1		R31
47	47		1303176-00	1.60 K .25 W 5.0 % CF	2		R33,R84
48	48		1303179-00	8.20 K .25 W 5.0 % CF	2		R9,R10
49	49		1301327-00	68.0 K .25 W 5.0 % CF	1		R40
50	50		1304841-00	75.0 K .25 W 5.0 % CF	1		R27
51	51		1304865-00	1.0 K .25 W .10 % RN55E-B 2	2		R29,R30
52	52		1305425-00	309.0 K .25 W 1.0 % RN55D-F10	1		R32
53	53		1305431-00	10.0 K .25 W .10 % RN55E-B 2	2		R113,R114
54	54		1309143-14	100.0 K .75 W 10.0 % POT	3		R26,R87,R95
55	55		1309595-00	1.0 M .25 W 5.0 % CF	1		R24
56	56		1310607-00	422.0 K .25 W 1.0 % RN55C-F 5	1		R46
57	57		1311003-01	R NETWORK 14-180 14-390 16PIN	1		E47
58	58		1312930-00	5.10 K .25 W 5.0 % CF	1		R115
59	59		1313843-00	107.0 K .25 W 1.0 % RN55D-F10	1		R45
60	60		1514341-00	ULN2004A NPN 1W SI ARRAY	2		E30,E50
61	61		1814249-00	OSCILLATOR, XTAL 4.096 MHZ	1		E21
62	62		1909929-00	7417 BUFFER GATE-HEX 1INP	2		E48,E49
63	63		1910298-00	741 OP AMP GEN PURP. COM	2		E10,E9
64	64		1910741-00	7406 INVERTER GATE-HEX 1I	2		E36,E37
65	65		1911469-00	DEC 8640 RECEIVER,BUS,QUAD,U	3		E41,E42,E46
66	66		1912107-00	324 OP AMP,QUAD	1		E4
67	67		1912108-00	339 VOLT CMPRTR,QUAD	1		E1
68	68		2113607-00	4011UBNAND GATE-QUAD 2IN C	2		E16,E26
69	69		2113609-00	4013B FF-D DUAL W/SET/RESE	4		E12,E24,E25,E29
70	70		2113623-00	4043B NOR R/S LATCH,QUAD	2		E6,E35
71	71		2113628-00	4050B BUFFER/CONVERTER GAT	2		E43,E45
72	72		2113630-00	4052B MULTIPLEXER 4CHAN DI	4		E38-E40,E44
73	73		2113632-00	4066B BILATERAL SWITCH-QUA	1		E5
74	74		2113633-00	4069UBINVERTER GATE-HEX	2		E22,E2
75	75		2113634-00	4070B X-OR GATE-QUAD CMOS	3		E11,E14,E20
76	76		2113635-00	4071B OR GATE-QUAD 2IN CMO	1		E27
77	77		2113637-00	4073B AND GATE-TRIPLE 3IN	1		E7
78	78		2113639-00	4076B REGISTER 4BIT D-TYPE	2		E18,E19

D	I	G	I	T	A	L	TITLE	SECTION A	OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							CAPSTAN SERVO			K	PL	G159-0-DBP	M

AUTOMATED BY PRTLST.2E(3)

PARTS LIST

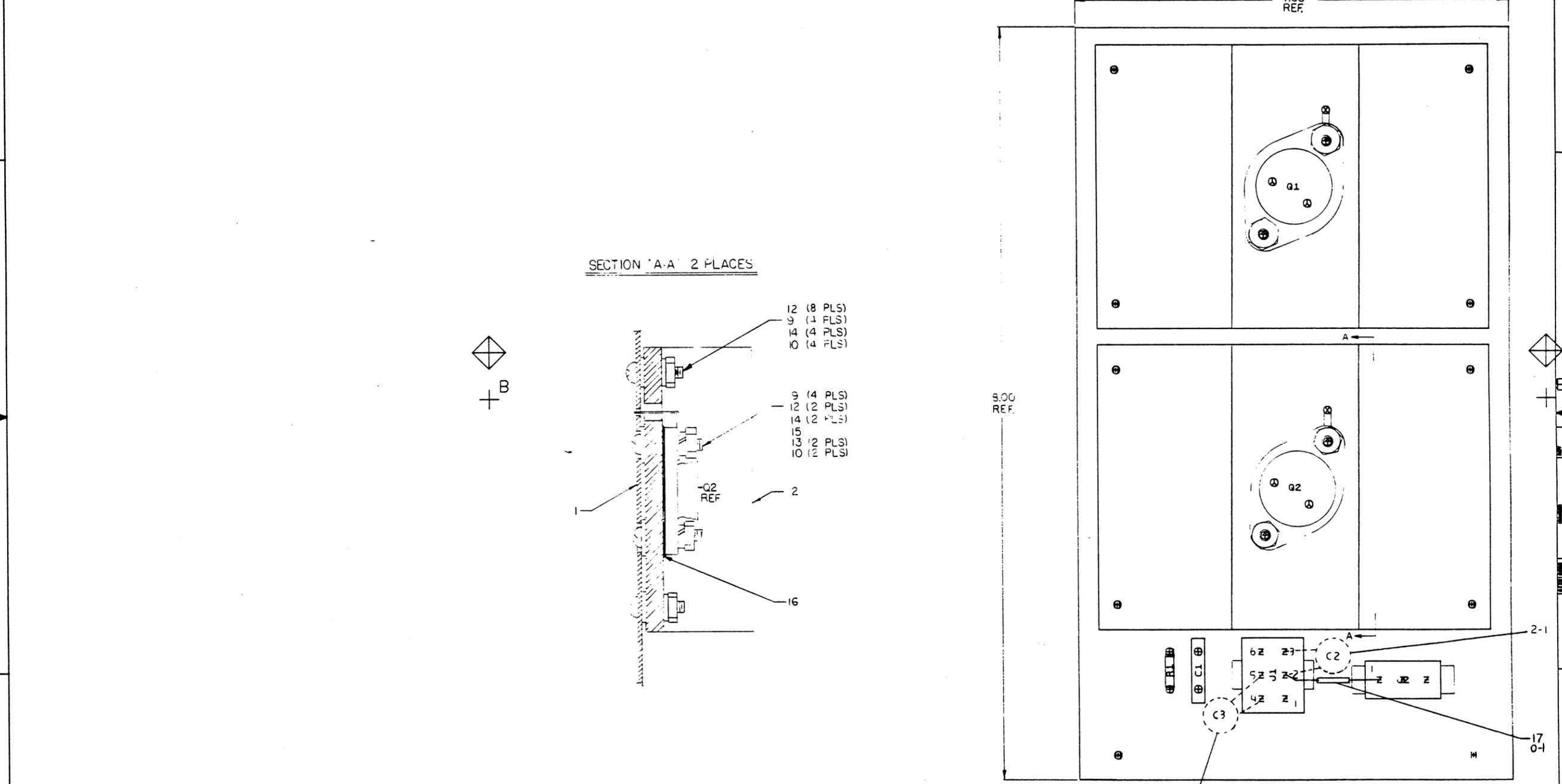
SHEET A3 OF A3

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
79	79		2113642-00	4081B AND GATE-QUAD 2IN CM	2	E34,E8
80	80		2113946-00	4053B MULTIPLEXER 2CHAN CM	1	E3
81	81		2114462-00	4040B COUNTER/DIVIDER,BINA	2	E13,E17
82	82		2114463-00	4068B NAND GATE,8IN	1	E23
83	83		2114464-00	4085B AND-OR GATE,DUAL,2IN	2	E28,E31
84	84		2114465-00	4099BELATCH-ADDRESSABLE 8BIT	2	E32,E33
85	85		2116019-00	7523JND/A CONVERTER,MULT,8	1	E15
86	86		1312985-00	332.0 K .25 W 1.0 % RN55D-F10	1	R36
87	87		9105740-55	*** THIS ITEM IS NOT USED ***	-	
88	88		1313596-00	20.0 K .25 W 1.0 % RN55D-F10	2	R103,R104
89	89		9107256-11	*** THIS ITEM IS NOT USED ***	-	
90	90		1300391-00	1.50 K .25 W 5.0 % CF	2	R78,R79
91	91		1002630-00	.015 MFD 100V 10% MYLR	1	C20
92	92	D-UA-G159-0-0		UNIT ASS'Y	REF	
93	93	D-CS-G159-0-1		CIRCUIT SCHEMATIC	REF	
94	94	D-MD-5012399-0-0		DRILL AND ETCH DRAWING	REF	

D	I	G	I	T	A	L	TITLE	CAPSTAN SERVO	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
										K	PL	G159-0-DBP	M

8 7 6 5 4 3 2 1
 D UA 5413692-0-0 C

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NOTES: 1. THIS BOARD MUST BE UL APPROVED.
 2. C2 AND C3 CAPACITORS ARE MOUNTED TO THE BOARD ON SIDE 2.

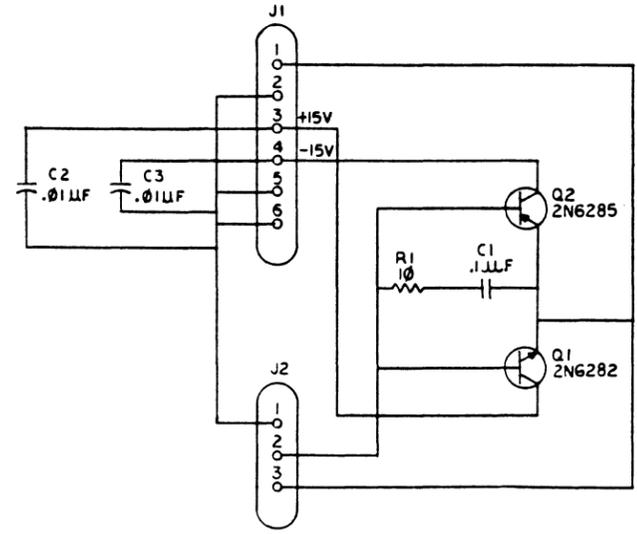
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5413692-ML1	B	11/17	B. KRASNICK	
5413692-C	C	11/17	B. KRASNICK	
5413692-SH002				
R. NOTE				

SIGNATURES		DATE	digital
DRN. J. FITZGERALD		NOV 18 1978	
CHK'D. <i>[Signature]</i>		NOV 17 1978	
ENG. <i>[Signature]</i>		11/17/78	
PROJ. ENG. <i>[Signature]</i>		11/17/78	
PROD. <i>[Signature]</i>		11/17/78	
SCALE 2/1			TITLE
SHT. 1 OF 4			CAPSTAN DRIVER BD.
ETCH REV. B			SIZE CODE
P.C. DESIGN DATA BRSE REV. BL			NUMBER
			D UA 5413692-0-0
			REV C

8 7 6 5 4 3 2 1
 SHO 1 MS# 160437

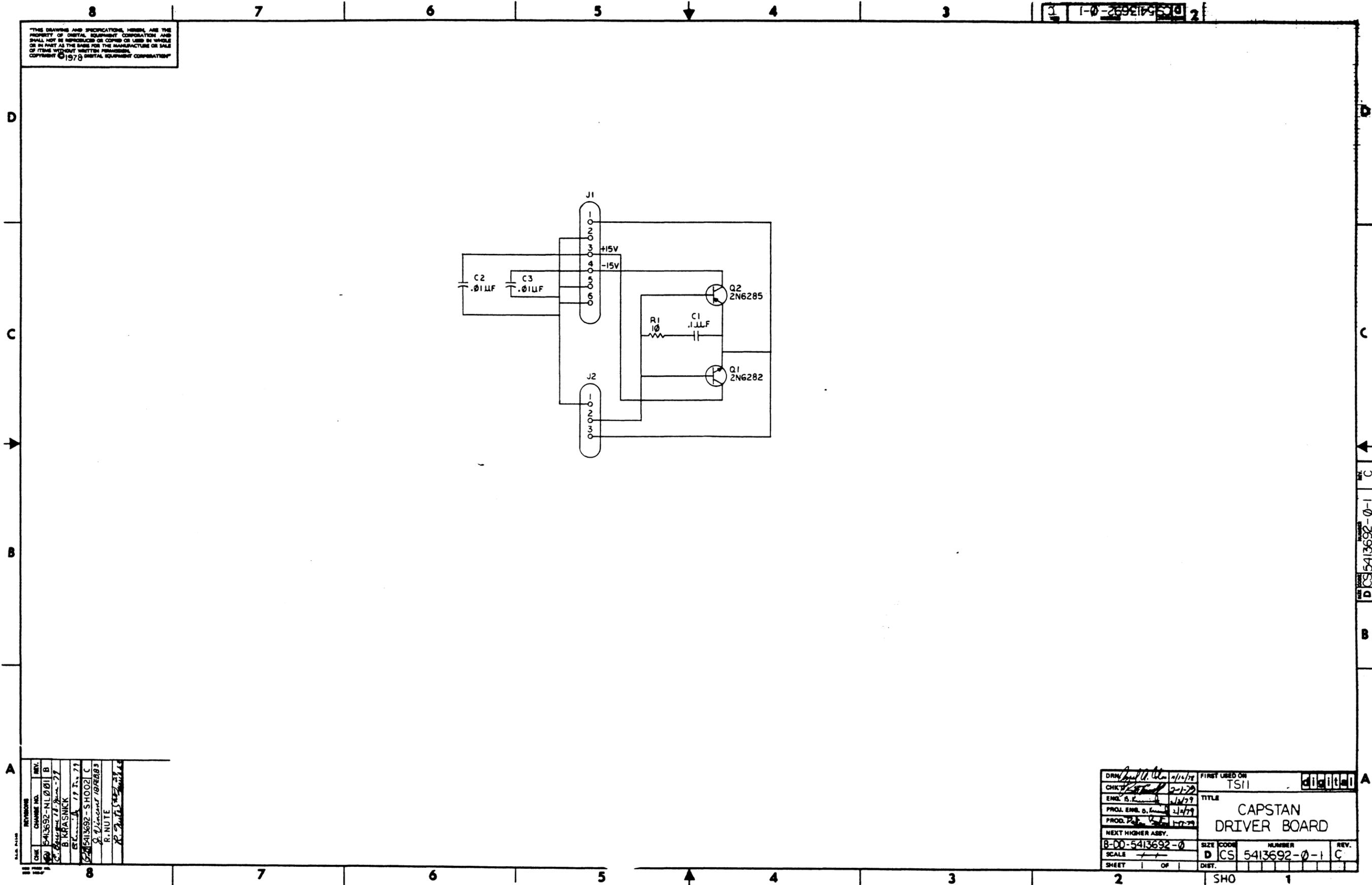
CS 5413692-0-1 2

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REV.	CHANGED BY	DATE
B	5413692-NL001	1/1/77
A	B. KRASNICK	1/1/77
C	5413692-SH002	1/1/77
	R. NUTE	1/1/77

DRN: <i>[Signature]</i>	DATE: 1/1/77	FIRST USED ON: TS11
CHK: <i>[Signature]</i>	DATE: 1/1/77	TITLE: CAPSTAN DRIVER BOARD
ENGR. S. <i>[Signature]</i>	DATE: 1/1/77	
PROJ. ENGR. D. <i>[Signature]</i>	DATE: 1/1/77	
PROD. <i>[Signature]</i>	DATE: 1/1/77	
NEXT HIGHER ASSY.:	B-00-5413692-0	
SCALE:	SIZE CODE: D CS	NUMBER: 5413692-0-1
SHEET: 1	OF: 1	REV. C



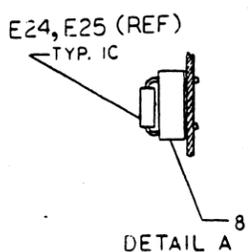
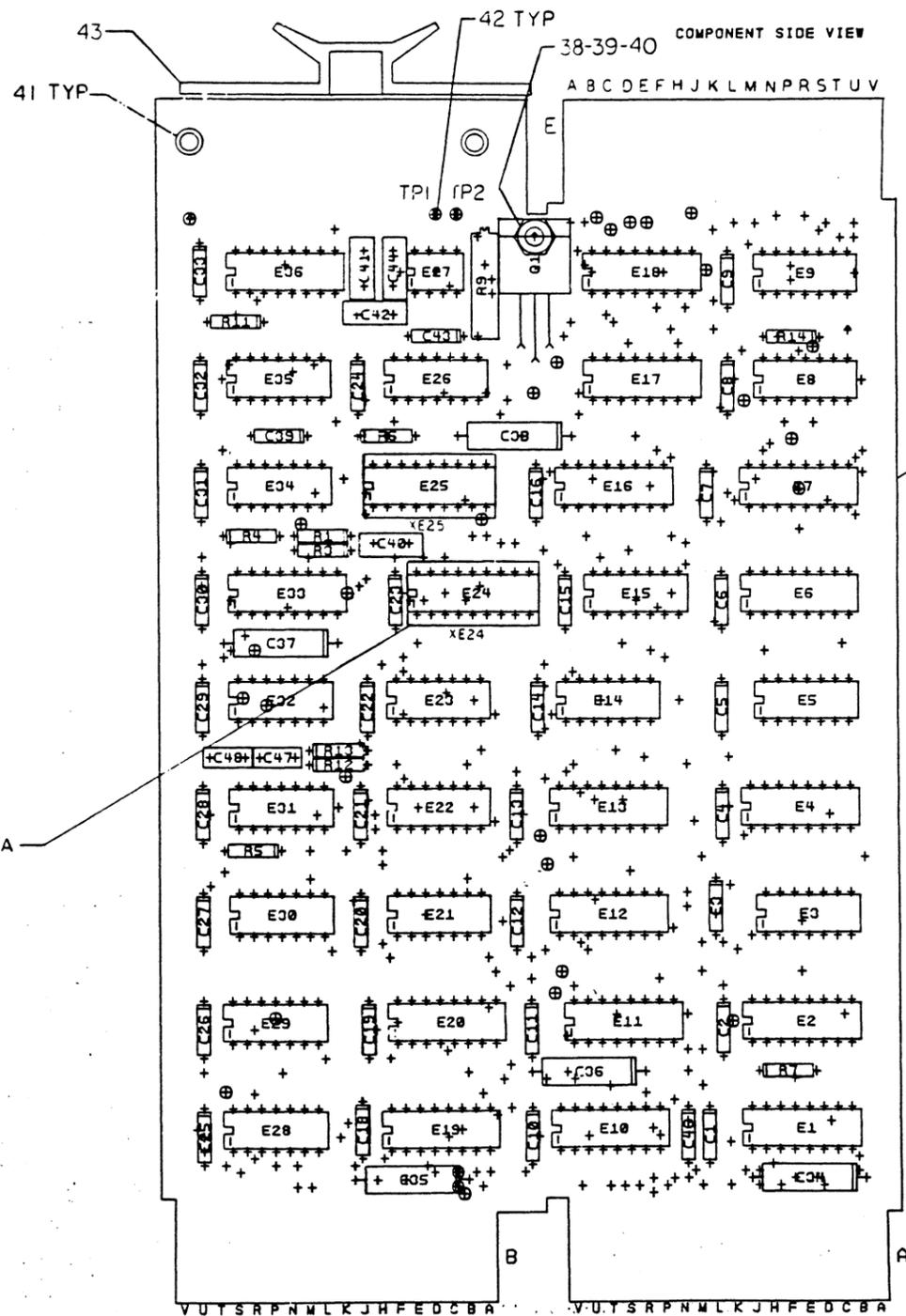
LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
1	1	5013691-00	DRILL & ETCH BD	1	
2	2	1216232-00	HEAT SINK 3 X 4-1/8	2	
3	3	1516120-01	PNP 160W SI 60 750 DA	1	G2
4	4	1516120-00	PNP 160W SI 60 750 DA	1	G1
5	5	1000030-00	.1 MFD 100V 20% Z5U DISC	1	C1
6	6	1212297-03	MATE-N-LOK 3PIN UNIV HEADER	1	J2
7	7	1212297-05	MATE-N-LOK 6PIN UNIV.	1	J1
8	8	1301317-00	10 1/4W 5% CC	1	R1
9	9	9007793-01	SCREW,PAN ,PHIL, 6-32X 9/16	4	
10	10	9006558-00	NUT,HEX , 6-32X5/16AF X 7/	12	
11	11	9006656-00	*** THIS ITEM IS NOT USED ***	-	
12	12	9006222-01	SCREW,PAN ,PHIL, 6-32X 3/8	8	
13	13	9007801-00	WASHER, LOCK, S.S. #6	4	
14	14	9008992-00	WASHER, FLAT, WHITE NYLON, 375 X	20	
15	15	9009676-00	TERM LUG 1POS SOLDER	2	
16	16	9008208-00	COMPOUND, THERMAL JOINT	8 A/R	
17	17	9107636-55	WIRE,STRND,26AWG,IPVC UL1429	A/R	

REVISION HISTORY		BASIC PART NO: 5413692		DRN:	J. FITZGERALD	DATE:	25-SEP-78	DIGITAL			
ENG	ECD NUMBER	REV	SECTION A OF A	CHK'D:	P. BOSSMAN	DATE:	08-NOV-78	TITLE PARTS LIST			
---	INIT	A	SECTION VARIATION INDEX					CAPSTAN DRIVER RD			
B.K.	5413692-0-DBP	B	(A) 00					DOCUMENT NUMBER			
			(B)					SIZE	CODE	NUMBER	REV
			(C)	DES. ENG:	R. KRASNICK	DATE:	08-NOV-78				
			(D)								
			(E)	RESP. ENG.:	B. KRASNICK	DATE:	25-SEP-78				
			(F)								
			(H)								
			(J)								
			(K)	MFG. ENG.:	P. BARTON	DATE:	08-NOV-78	K	PL	5413692-0-DBP	B
			(L)								
			(M)	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:				FILE NAME:	EDIT #
			(N)	D-UA-5413692-X-0		TS11				Z0300B.PLS	9

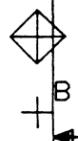
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8-2-22-8N 2



SEE DETAIL A



NOTES:

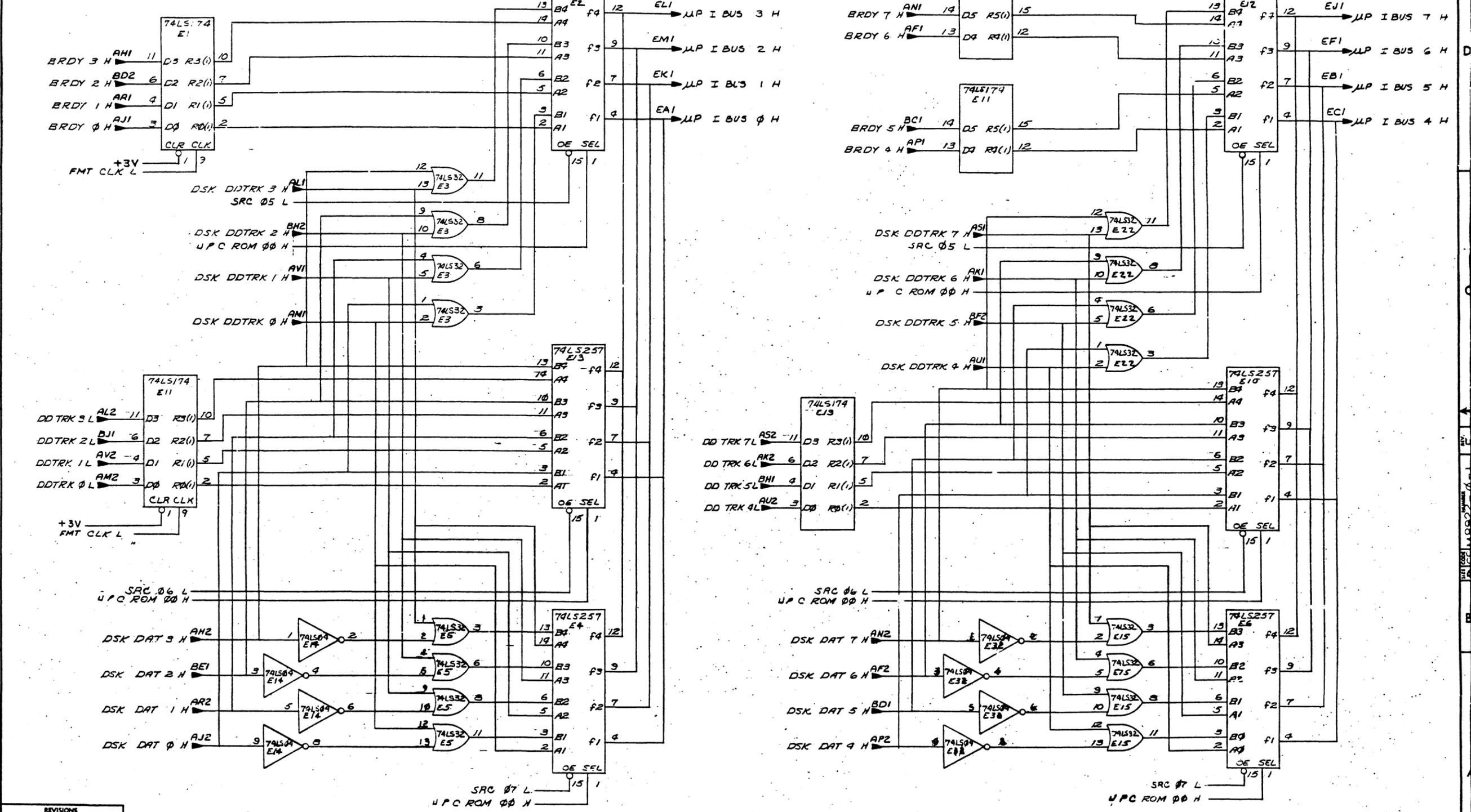
CHANGE NO	REV	DATE	BY	CHK'D
M8922-M1000	E	9/27/78	R. CORNEAU	

ETCH REV.	E
P.C. DESIGN DATA BASE REV.	EL & CW

SIGNATURES		DATE	digital
DRN. ANGEL COLON		9/27/78	
CHK'D. <i>[Signature]</i>		9/27/78	TITLE BRANCH LOGIC AND VCO CONTROL
ENG. <i>[Signature]</i>		9/27/78	
PROJ. ENG. <i>[Signature]</i>		9/27/78	
SCALE	2/1	SIZE	CODE
SHT.	1 OF 5	NUMBER	0 UA M8922-0-0
NEXT HIGHER ASSY. 8-DD-M8922-0		REV	E

REV. 0 UA M8922-0-0
 DUA M8922-0-0
 B
 A

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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE/SCALE	CODE	NUMBER	REV.
BRANCH LOGIC & VCO CONTROL	NONE	D	M8922-0-1	E
SHEET 2 OF 3		DIST.		

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
1	37	5012776-00	M8922	1	
2	1	1000011-00	47.0 MME 100V 5%200PPM DM15S	1	C41
3	2	1000042-00	1000.0 MME 100V 5%200PPM DM15S	2	C47,C48
4	3	1001610-00	.01 MFD 50V -20+80 Z5U AXIAL	34	C1-C16,C18-C33,C46,C43
5	4	1002427-00	15.0 MME 100V 5%200PPM DM15S	1	C44
6	5	1005306-00	6.8MFD 35V 10% S.TANT	5	C34-C38
7	6	1005784-00	.01 MFD 100V 10% 663VW MYLR	1	C39
8	7	1010274-00	.22 MFD 50V -20+80 Z5U CER	2	C40,C42
9	8	1211566-00	SOCKET 18PIN IC LOW PROFILE	2	XE24,XE25
10	9	1300432-00	3 K 1/4W 5% CC	1	R1
11	10	1300447-00	4.7 K 1/4W 5% CC	1	R14
12	11	1301890-00	560 1/4W 5% CC	1	R11
13	12	1302748-00	1.0 K 1/4W 1% RN55C-F 50PPM	3	R7,R12,R13
14	15	1303438-00	121 K 1/4W 1% RN55D-F 100PPM	1	R6
15	13	1305431-00	10 K 1/4W .1% RN55E-B 25PPM	1	R4
16	14	1309143-08	2 K 3/4W10% POT 100PPM	1	R9
17	16	1909928-00	7416 INVERTER GATE-HEX 1I	1	E31
18	17	1910298-00	741 OP AMP GEN PURP. COM	1	E27
19	19	1911573-00	74S280 PARITY GEN/CHKR,9BIT	1	E23
20	20	1911911-00	DEC 74S124 OSCILLATOR,DUAL VOLT	1	E36
21	21	1912536-00	DEC 7805 VOLT,REG,FIX	1	G1
22	22	1912646-00	LS253 MUX 1 OF 4 (DUAL)	1	E18
23	23	1912647-00	LS257 MUX 1 OF 2 (QUAD)	6	E2,E4,E6,E10,E12,E13
24	24	1912648-00	LS251 MUX 8 INPUT,TRI-STA	1	E16
25	18	1912697-00	LS174 FF-D HEX w/CLEAR	4	E1,E7,E11,E19
26	25	1912803-00	LS04 INVERTER GATE-HEX 1I	3	E8,E14,E32
27	26	1912805-00	LS08 AND GATE-QUAD 2IN,PO	1	E35
28	27	1912816-00	LS32 OR GATE-QUAD 2IN,POS	6	E3,E5,E9,E15,E21,E22
29	28	1912820-00	LS51 A-O-I GATE 2-WIDE 2I	1	E28
30	29	1912824-00	LS74 FF-D DUAL,EDGE TRIGG	1	E26

REVISION HISTORY			BASIC PART NO:	M8922	DRN:	H,RICHER	DATE:	20-FEB-78	DIGITAL			
ENG:	ECO NUMBER	REV	SECTION A OF A		CHK'D:	P,BOSSMAN	DATE:	21-JUN-78	TITLE PARTS LIST			
---	INIT	D	SECTION VARIATION INDEX		CHK'D:	P,BOSSMAN <td>DATE:</td> <td>21-JUN-78 <td colspan="4">BRANCH LOGIC & VCO CONTROL</td> </td>	DATE:	21-JUN-78 <td colspan="4">BRANCH LOGIC & VCO CONTROL</td>	BRANCH LOGIC & VCO CONTROL			
R,C	M8922-ML001	E	(A)	00	DES.ENG:	R,ODOM <td>DATE:</td> <td>10 NOV 78 <td colspan="4">DOCUMENT NUMBER</td> </td>	DATE:	10 NOV 78 <td colspan="4">DOCUMENT NUMBER</td>	DOCUMENT NUMBER			
			(B)		RESP.ENG.:	R,ODOM <td>DATE:</td> <td>10 NOV 78 <td>SIZE</td> <td>CODE</td> <td>NUMBER</td> <td>REV</td> </td>	DATE:	10 NOV 78 <td>SIZE</td> <td>CODE</td> <td>NUMBER</td> <td>REV</td>	SIZE	CODE	NUMBER	REV
			(C)		MFG.ENG.:	P,BARTON <td>DATE:</td> <td>10 NOV 78</td> <td>K</td> <td>PL</td> <td>M8922-0-DBP</td> <td>E</td>	DATE:	10 NOV 78	K	PL	M8922-0-DBP	E
			(D)		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:			EDIT #
			(E)		D-UA-M8922-0-0		TS04		Z0564E,PLS			23
			(F)									
			(H)									
			(J)									
			(K)									
			(L)									
			(M)									
			(N)									

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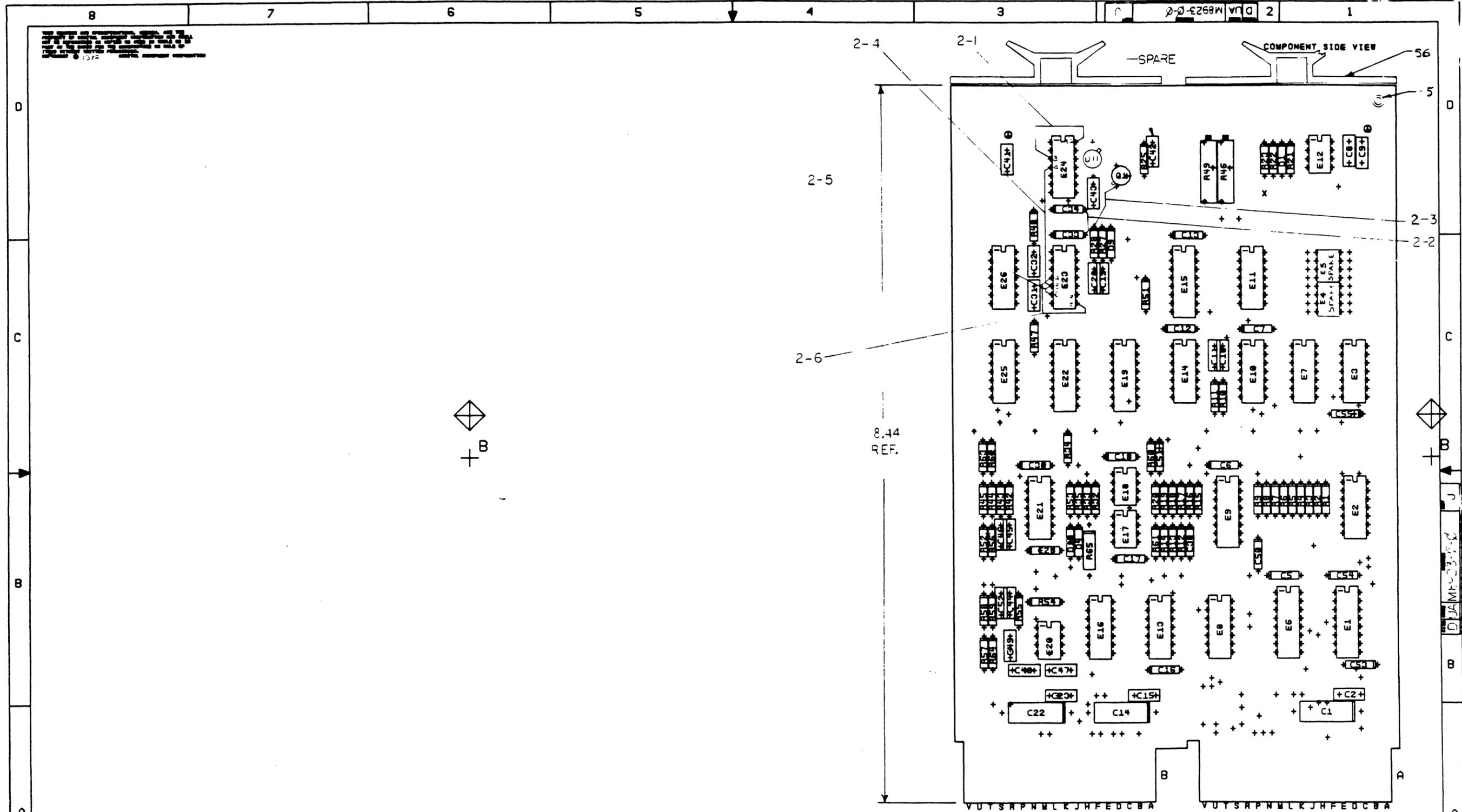
AUTOMATED BY PRTLST,1D(10)

P A R T S L I S T

SHEET A2 OF A2

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
31	30		1912842-00	LS138 DECODER-THREE INPUT,	1	E17
32	31		1912844-00	LS151 MUX 1 OF 8 & DATA	1	E20
33	32		1912850-00	LS164 SHIFT REG, 8BIT SERI	1	E29
34	33		1914451-00	74LS393 COUNTER,BINARY,4BIT	1	E30
35	34		2113625-00	4046B FF-JK GATED CMOS	1	E33
36	35		2113632-00	4066B BILATERAL SWITCH-QUA	1	E34
37	44		23383F1-00	F1-01	1	E25
38	45		23384F1-00	F1-01	1	E24
39	38		9006009-04	SCREW,BIND,SLOT, 4-40X 1/4	1	
40	39		9006556-00	NUT,HEX , 4-40X1/4 AF X 3/	1	
41	40		9006688-00	WASHER, LOCK, S.S. #4	1	
42	41		9006732-00	EYELET, ROLLED FLANGE, .121 OD X	2	
43	42		9006735-00	EYELET, FUNNEL FLANGE, .059 OD X	2	TP1,TP2
44	43		9008337-06	HANDLE, FLIP CHIP, MAGENTA	1	
45	44		1300295-00	330 1/4W 5% CC	2	R3,R5

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							BRANCH LOGIC & VCO CONTROL		K	PL	M8922-0-DBP	E



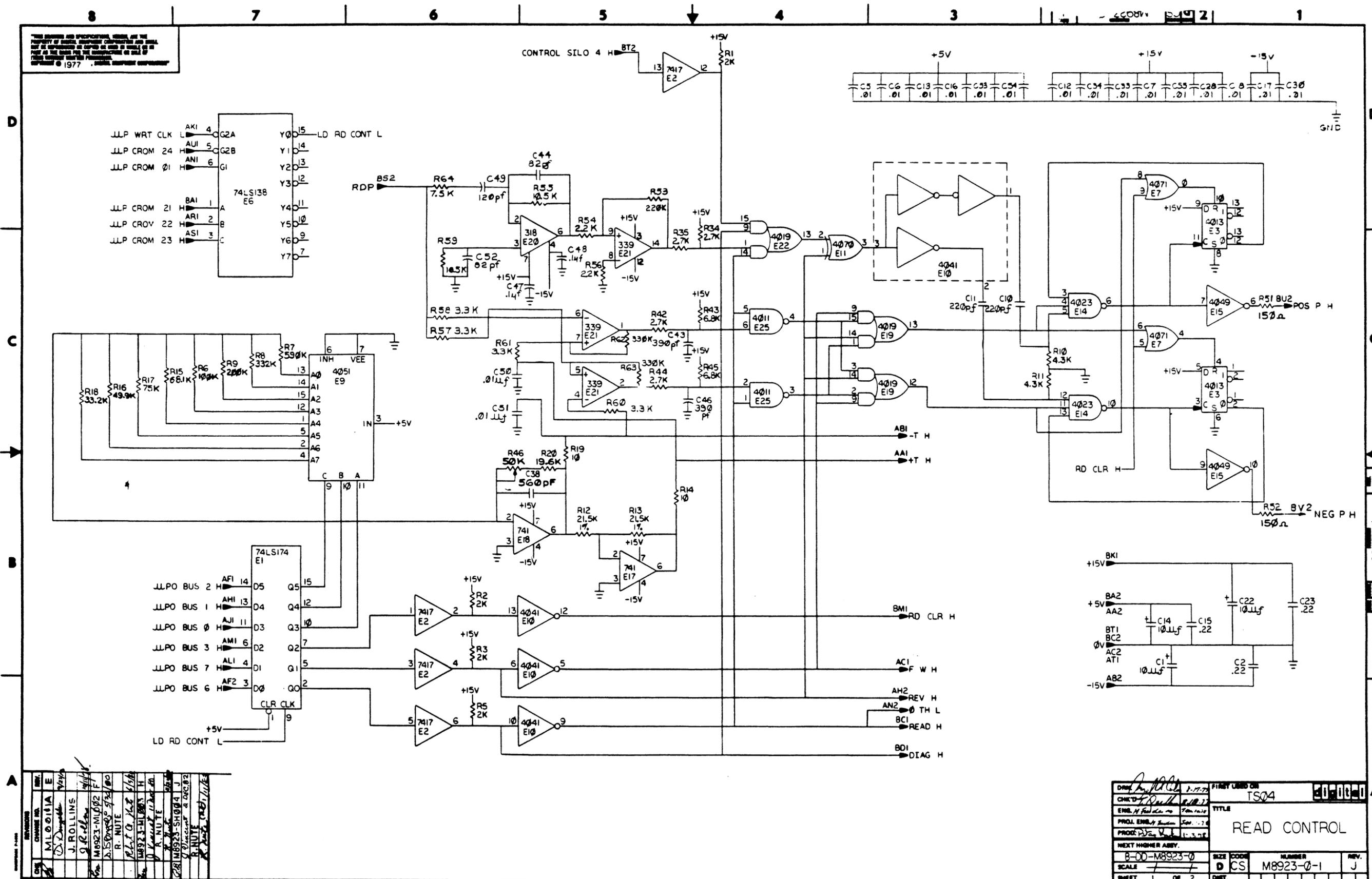
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CHANGE NO	REV	DATE	BY	CHK
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M8923	F	7/27	J.R.	
M8923	G	7/27	J.R.	
M8923	H	7/27	J.R.	
M8923	I	7/27	J.R.	
M8923	J	7/27	J.R.	
M8923	K	7/27	J.R.	
M8923	L	7/27	J.R.	
M8923	M	7/27	J.R.	
M8923	N	7/27	J.R.	
M8923	O	7/27	J.R.	
M8923	P	7/27	J.R.	
M8923	Q	7/27	J.R.	
M8923	R	7/27	J.R.	
M8923	S	7/27	J.R.	
M8923	T	7/27	J.R.	
M8923	U	7/27	J.R.	
M8923	V	7/27	J.R.	
M8923	W	7/27	J.R.	
M8923	X	7/27	J.R.	
M8923	Y	7/27	J.R.	
M8923	Z	7/27	J.R.	

ETCH REV. F-PI
P.C. DESIGN DATA BASE REV. F

SIGNATURES	DATE	TITLE
DRN. J. DINGE DEIN	7/27	digital
CHK. D.	7/27	READ
PROJ. ENG.	7/27	CONTROL
SCALE 2/1		SIZE CODE NUMBER
SHT. 1 OF 2		D U A M 8 9 2 3 - 0 - 2
NEXT HIGHER ASSY. B-00-M8923-0		

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REV.	BY	CHKD.	DATE
1	ML0018A	E	1-17-77
2	J. ROLLINS	WV	1-17-77
3	J. ROLLINS	WV	1-17-77
4	R. NUTE	F	1-17-77
5	R. NUTE	F	1-17-77
6	R. NUTE	F	1-17-77
7	R. NUTE	F	1-17-77
8	R. NUTE	F	1-17-77
9	R. NUTE	F	1-17-77
10	R. NUTE	F	1-17-77

DRW. <i>[Signature]</i>	DATE 1-17-77	FIG. NO. 1	REV. 1
CHKD. <i>[Signature]</i>	DATE 1-17-77	TS04	
ENGR. <i>[Signature]</i>	DATE 1-17-77	TITLE	
PROJ. ENGR. <i>[Signature]</i>	DATE 1-17-77	READ CONTROL	
PROG. <i>[Signature]</i>	DATE 1-17-77		
NEXT HIGHER ASSY.			
B-DD-M8923-0	SIZE CODE	NUMBER	REV.
SCALE	D CS	M8923-0-1	J
SHEET 1 OF 2	DRY.		

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
					00	
1	1	D-CS-M8923-0-1		READ CONTROL	REF	
2	2	D-UA-M8923-0-0		READ CONTROL	REF	
3	3	B-DD-M8923-0-0		READ CONTROL	REF	
4	4	D-MD-5012847-0-0		DRILL & ETCH DRAWING	REF	
5	5		5012847-00	M8923	1	
6	6		1000014-00	68.0 MMF 100V 5%200PPM MICA	1	C43
7	7		1000016-00	100.0 MMF 100V 5%200PPM MICA	1	C9
8	8		1000019-00	150.0 MMF 100V 5%200PPM MICA	2	C19,C20
9	9		1001610-00	.01 MFD 50V +80-20% Z5U CER	17	C5,C6,C7,C12,C13,C16-C18,C28, C30,C33,C34,C50,C51,C53-C55
10	10		1004813-00	10 MFD 20V 10% S.TANT	3	CONT C1,C14,C22
11	11		1010274-00	.22 MFD 50V +80-20% Z5U CER	4	C2,C8,C15,C23
12	12		1100100-00	D 003 TR= 50NS PIV= 25V GN	1	D1
13	13		1100114-00	D 664 QS\75PCB PIV= 25V SP	2	D4,D9
14	14		1300365-00	1.0 K .25 W 5.0 % CF	1	R22
15	15		1300426-00	2.70 K .25 W 5.0 % CF	3	R35,R42,R44
16	16		1300479-00	10.0 K .25 W 5.0 % CF	1	R23
17	17		1301317-00	10.0 .25 W 5.0 % CF	2	R14,R19
18	18		1301327-00	68.0 K .25 W 5.0 % CF	2	R27,R28
19	19		1301422-00	7.50 K .25 W 5.0 % CF	2	R48,R47
20	20		1301423-00	6.80 K .25 W 5.0 % CF	3	R34,R43,R45
21	21		1302388-00	2.0 K .25 W 5.0 % CF	7	R1-R5,R32,R33
22	22		1302391-00	20.0 K .25 W 5.0 % CF	1	R25
23	23		1305336-00	200.0 K .25 W 1.0 % RN55D-F10	1	R9
24	24		1303155-00	21.50 K .25 W 1.0 % RN55D-F10	2	R12,R13
25	25		1313344-00	75.0 K .25 W 1.0 % RN55D-F10	1	R17
26	26		1305252-00	68.10 K .25 W 1.0 % RN55D-F10	1	R15
27	27		1303044-00	100.0 K .25 W 1.0 % RN55D-F10	1	R6
28	28		1309143-09	*** THIS ITEM IS NOT USED ***	-	
29	29		1309143-13	50.0 K .75 W10.0 % POT	1	R46

REVISION HISTORY			BASIC PART NO: M8923		DRN: P.KENDRICH		DATE: 20-SEP-78		D I G I T A L			
ENG	ECO NUMBER	REV	SECTION A OF A		CHK'D:	T.QUILLIN	DATE:	20-SEP-78	TITLE	PARTS LIST		
M.F	M8923-ML001	E	SECTION VARIATION INDEX		DES.ENG:	J.ROLLINS	DATE:	20-SEP-78	READ CONTROL			
!RN	M8923-ML002	F	[A]	00	RESP.ENG.:	J.ROLLINS	DATE:	20-SEP-78	DOCUMENT NUMBER			
DJ	M8923-ML003	H	[B]		MFG.ENG.:	P.BARTON	DATE:	20-SEP-78	SIZE:CODE: NUMBER	REV		
!RN	M8923-SH004	J	[C]		ASSEMBLY NUMBER:	D-UA-M8923-0-0	TOP DOCUMENT NUMBER:	#B-DD-M8923-0	FILE NAME:	Z1482J.PLS	EDIT #:	14
			[D]									
			[E]									
			[F]									
			[H]									
			[J]									
			[K]									
			[L]									
			[M]									
			[N]									

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AUTOMATED BY PRTLST.2E(3)

PARTS LIST

SHEET A2 OF A3

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
30	30		1305420-00	33.20 K .25 W 1.0 * RN55D-F10	1	R18
31	31		1301732-00	620.0 .50 W 5.0 * CF	1	R65
32	32		1305427-00	590.0 K .25 W 1.0 * RN55D-F10	1	R7
33	33		1312985-00	332.0 K .25 W 1.0 * RN55D-F10	1	R8
34	34		1312988-00	49.90 K .25 W 1.0 * RN55D-F10	1	R16
35	35		1503100-00	DEC3009B NPN 200MW SI 20 25	1	Q1
36	36		1909929-00	7417 BUFFER GATE-HEX 1INP	1	E2
37	37		1910298-00	741 OP AMP GEN PURP. COM	2	E17,E18
38	38		1910735-02	318 OP AMP	1	E20
39	39		1912108-00	339 VOLT CMPRTR,QUAD	1	E21
40	40		1912697-00	LS174 FF-D HEX W/CLEAR	1	E1
41	41		1912842-00	LS138 DECODER-THREE INPUT,	1	E6
42	42		2113603-00	4001UBNOR GATE-QUAD 2IN CM	1	E26
43	43		2113607-00	4011UBNAND GATE-QUAD 2IN C	1	E25
44	44		2113609-00	4013B FF-D DUAL W/SET/RESE	1	E3
45	45		2113612-00	4019B AND-OR SELECT GATE-Q	2	E19,E22
46	46		2113613-00	4023UBNAND GATE,TRIPLE,3IN	1	E14
47	47		2113621-00	4041UB BUFFER GATE,QUAD,TR	1	E10
48	48		2113627-00	4049UBINVERTER-HEX BUFFER-	1	E15
49	49		2113629-00	4051B MULTIPLEXER 8CHAN CM	1	E9
50	50		2113632-00	4066B BILATERAL SWITCH-QUA	1	E24
51	51		2113634-00	4070B X-OR GATE-QUAD CMOS	1	E11
52	52		2113638-00	4075B OR GATE-TRIPLE 3IN C	3	E8,E13,E16
53	53		2113644-00	*** THIS ITEM IS NOT USED ***	-	
54	54		1914466-00	3130E OP AMP MOS/FET IN,CM	1	E12
55	55		9006732-00	EYELET,ROLLED 0.1210DX0.219	4	
56	56		9008337-06	HANDLE, FLIP CHIP, MAGENTA	2	
57	57		2113635-00	4071B OR GATE-QUAD 2IN CMO	1	E7
58	58		1302389-00	4.30 K .25 W 5.0 * CF	2	R10,R11
59	59		1304838-00	43.0 K .25 W 5.0 * CF	1	R21
60	60		1001739-00	*** THIS ITEM IS NOT USED ***	-	
61	61		1118180-00	CR 100 POV=100V 1MA	1	D11
62	62		1113295-00	1N 4372A VZ= 3.0 5% .40W	1	D10
63	63		1300250-00	150.0 .25 W 5.0 * CF	2	R51,R52
64	64		1300417-00	2.20 K .25 W 5.0 * CF	2	R54,R56
65	65		1300439-00	3.30 K .25 W 5.0 * CF	4	R57,R58,R60,R61
66	66		1305322-00	7.50 K .25 W 1.0 * RN55D-F10	1	R64
67	67		1312987-00	10.50 K .25 W 1.0 * RN55D-F10	2	R55,R59
68	68		1302092-00	220.0 K .25 W 5.0 * CF	1	R53
69	69		1302091-00	330.0 K .25 W 5.0 * CF	2	R62,R63
70	70		1014169-00	1000.0 MMF 100V 1*200PPM MICA	1	C41
71	71		1000018-00	120.0 MMF 100V 5*200PPM MICA	1	C49
72	72		1000015-00	82.0 MMF 100V 5*200PPM MICA	2	C44,C52
73	73		1001631-00	390.0 MMF 100V 5*200PPM MICA	2	C45,C46
74	74		1010978-36	.1 MFD 50V 10% CER	2	C47,C48
75	75		1000021-00	220.0 MMF 100V 5*200PPM MICA	3	C10,C11,C32
76	76		1309419-00	19.60 K .25 W 1.0 * RN55D-F10	1	R20
77	77		1305265-00	*** THIS ITEM IS NOT USED ***	-	

D	I	G	I	T	A	L	TITLE	SECTION A	OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							READ CONTROL			K	PL	M8923-0-DBP	J

AUTOMATED BY PRTLST.2E(3)

PARTS LIST

SHEET A3 OF A3

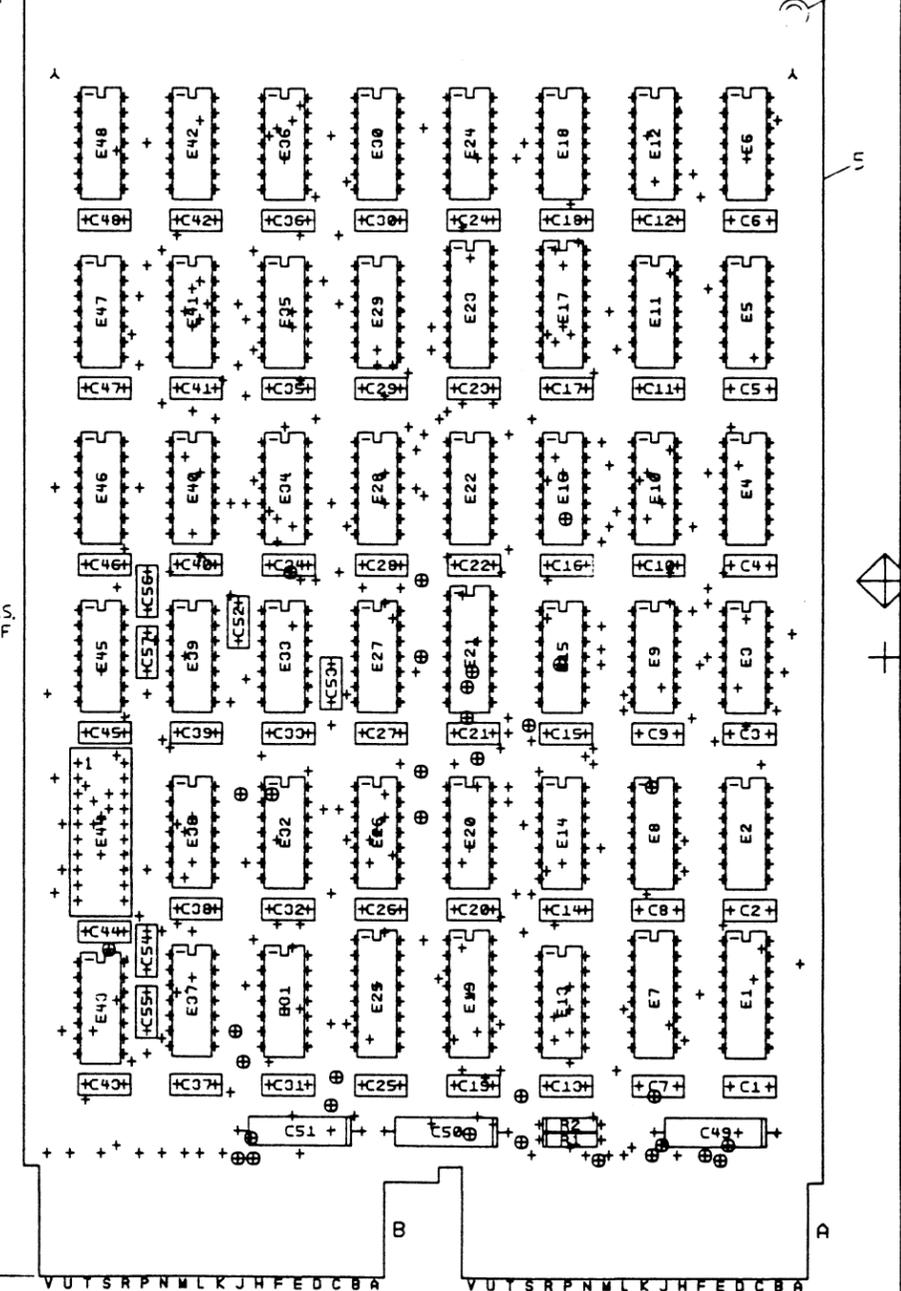
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78	78		1000025-00	560.0 MMF 100V 5%200PPM MICA	1	C38
79	79		1000024-00	470.0 MMF 100V 5%200PPM MICA	1	C31
80	80		2116333-00	4001BE NOR GATE-QUAD 2IN C	1	E23
81	81		1309143-14	100.0 K .75 W10.0 % POT	1	R49

82 NOTE: USED ON:OPTION/MODEL TS04

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							READ CONTROL		K	PL	M8923-0-DBP	J

8 7 6 5 4 3 2 1

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NOTES:

STEP E + Y AXIS STEP TIMES

REPEAT + X AXIS STEP TIMES

CHK CHANGE NO	REV
REDRAWN	K
DATE	11/24/44

ETCH REV. H-P2

SIGNATURES	DATE
DRN.	
CHK'D.	
RECH. ENG.	
PROJ. ENG.	
PROD.	
SCALE 2/	
SHT. OF 1	
NEXT HIGH-OR ASSY. B-D-18924-	

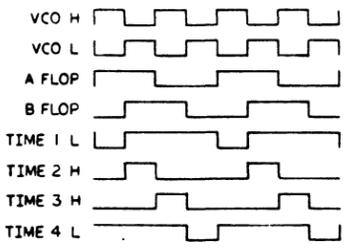
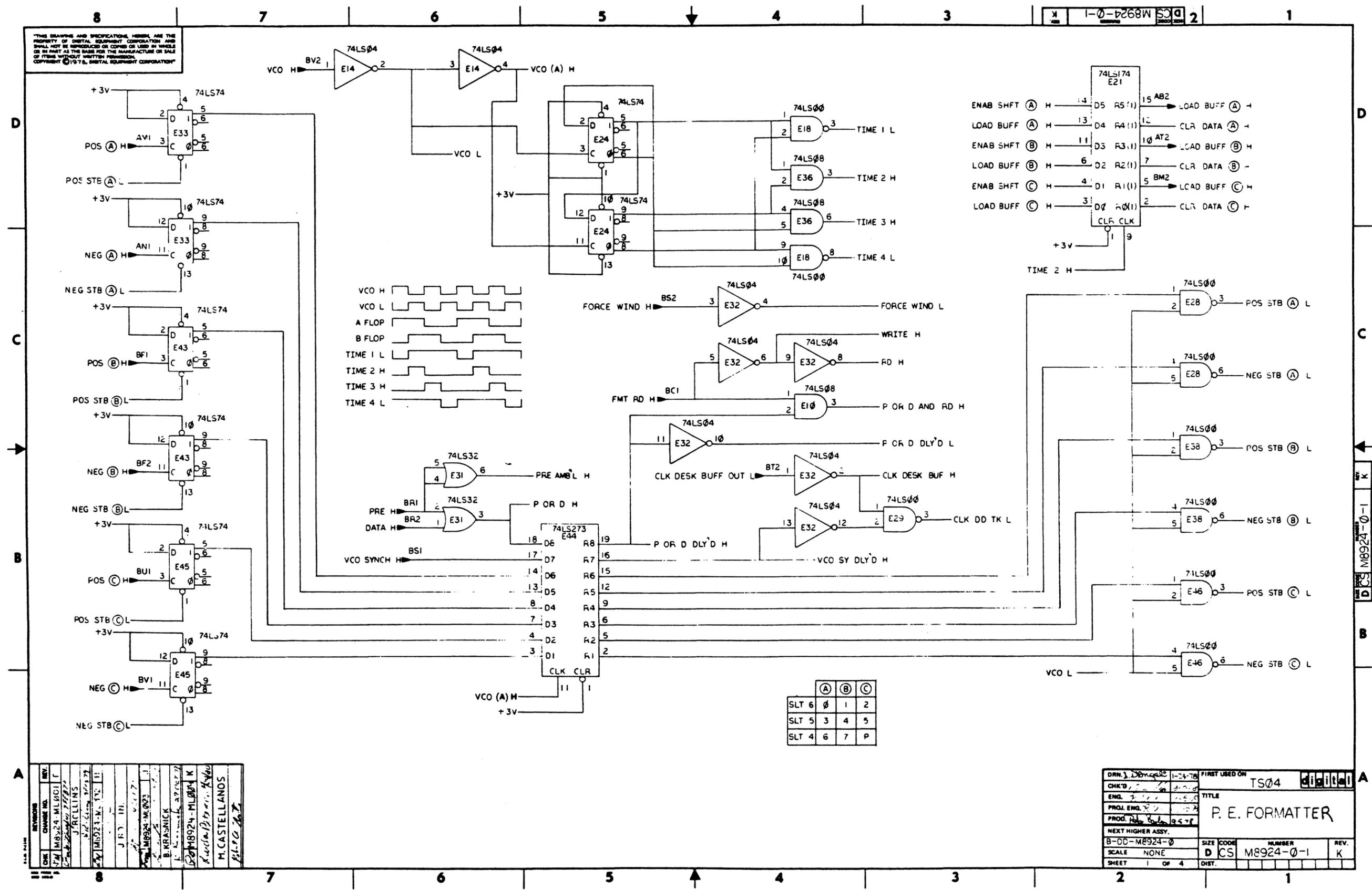
digital

TITLE
P.E. FORMATTER

SIZE CODE NUMBER
D VA M8924-0-C K

8 7 6 5 4 3 2 1 WO#

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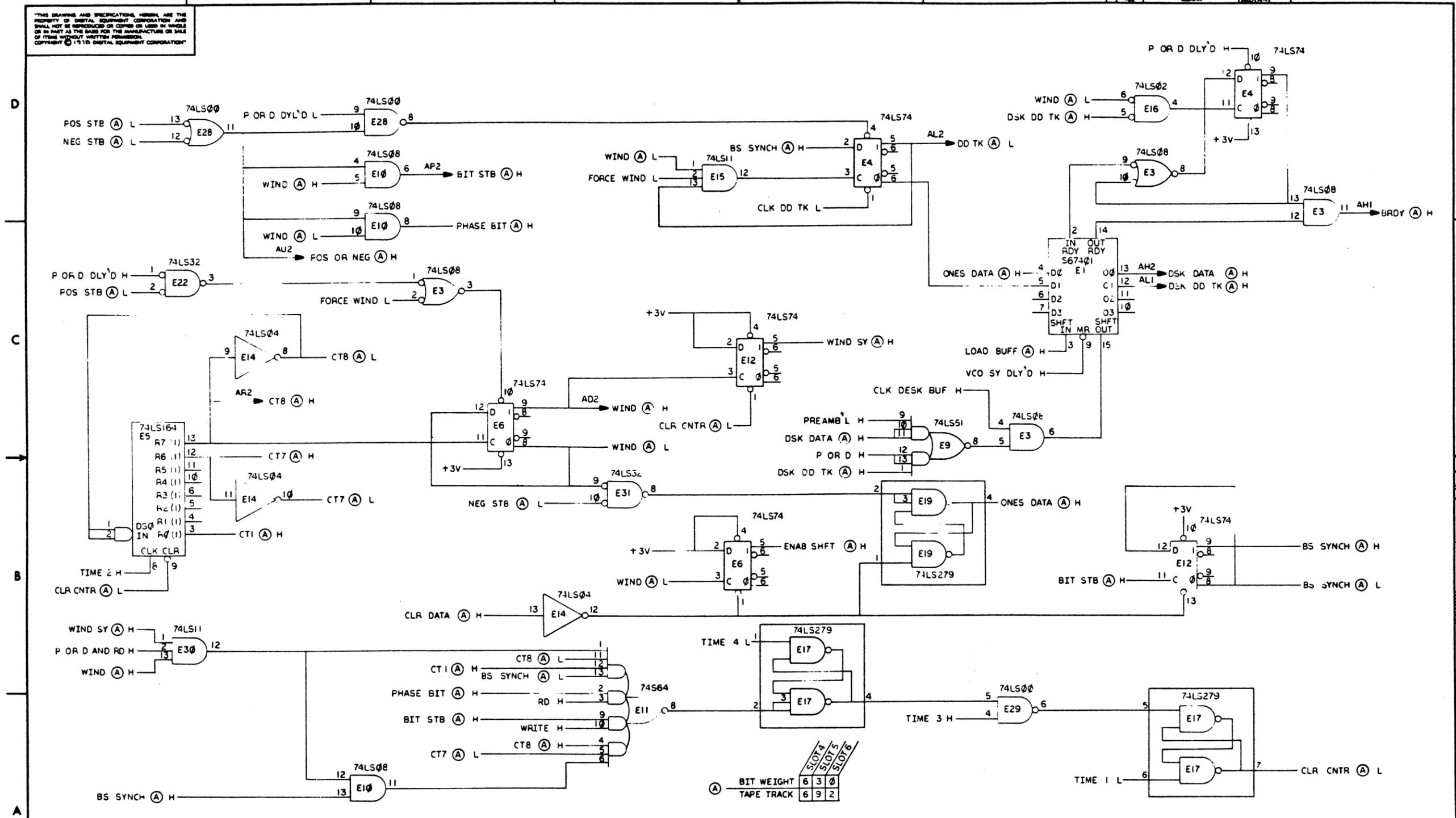


	A	B	C
SLT 6	0	1	2
SLT 5	3	4	5
SLT 4	6	7	P

DRN. 3	1-24-76	FIRST USED ON	TS04
CHK'D		TITLE	P. E. FORMATTER
ENGR.		SCALE	NONE
PROJ. ENGR.		SHEET	1 OF 4
PROD. ENGR.		DIST.	
NEXT HIGHER ASSY.		SIZE	CODE
B-DD-M8924-0		NUMBER	M8924-0-1
		REV.	K

REV.	1	DATE	11/17/76	BY	JRC
REV.	2	DATE	12/14/76	BY	JRC
REV.	3	DATE	1/14/77	BY	JRC
REV.	4	DATE	1/14/77	BY	JRC
REV.	5	DATE	1/14/77	BY	JRC
REV.	6	DATE	1/14/77	BY	JRC
REV.	7	DATE	1/14/77	BY	JRC
REV.	8	DATE	1/14/77	BY	JRC
REV.	9	DATE	1/14/77	BY	JRC
REV.	10	DATE	1/14/77	BY	JRC
REV.	11	DATE	1/14/77	BY	JRC
REV.	12	DATE	1/14/77	BY	JRC
REV.	13	DATE	1/14/77	BY	JRC
REV.	14	DATE	1/14/77	BY	JRC
REV.	15	DATE	1/14/77	BY	JRC
REV.	16	DATE	1/14/77	BY	JRC
REV.	17	DATE	1/14/77	BY	JRC
REV.	18	DATE	1/14/77	BY	JRC
REV.	19	DATE	1/14/77	BY	JRC
REV.	20	DATE	1/14/77	BY	JRC

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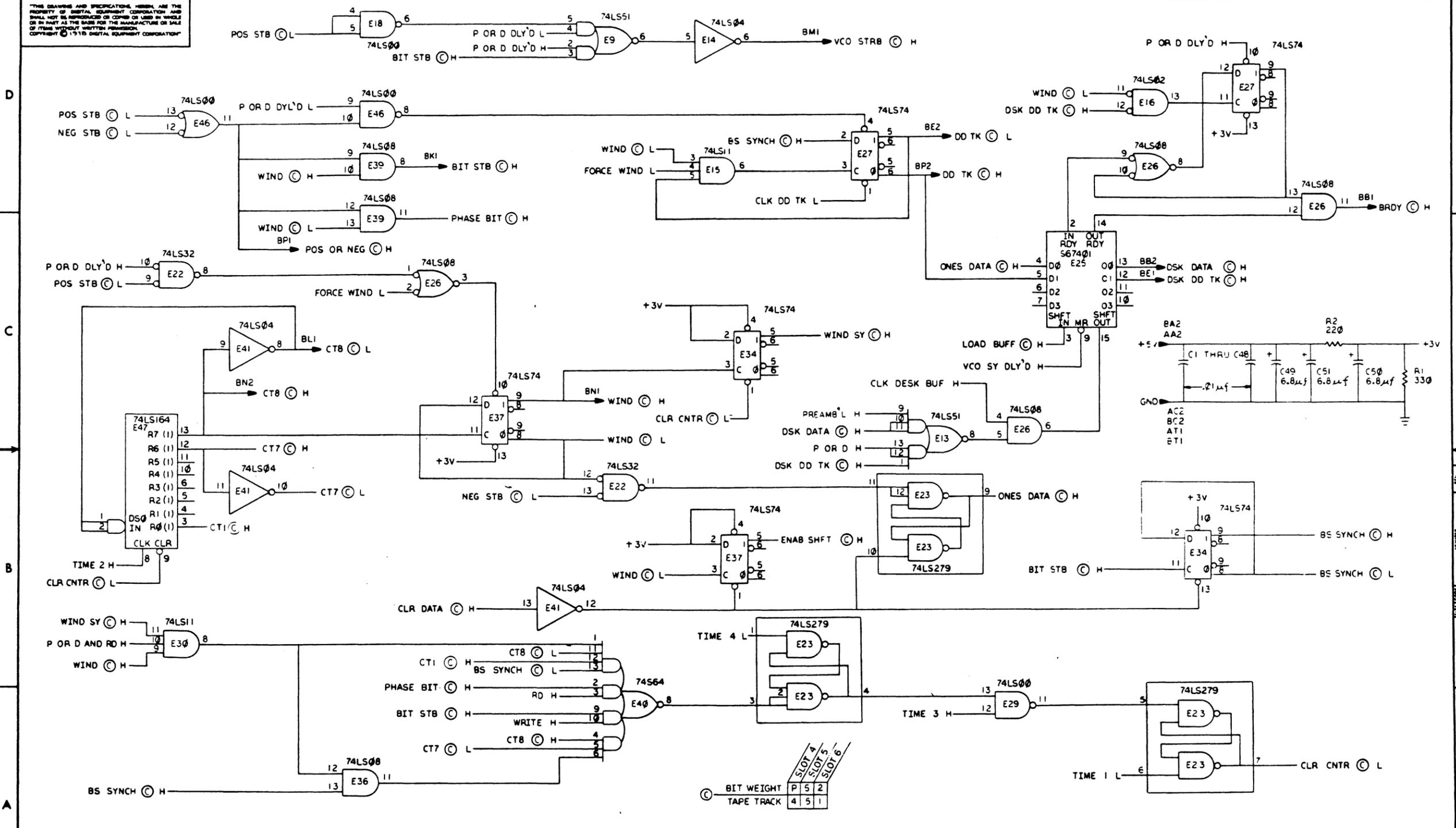


(A) BIT WEIGHT TAPE TRACK

SLOT 4	6	3	0
SLOT 5	6	9	2

REVISIONS		
CHK	CHANGE NO.	REV

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	SLOT 4	SLOT 5	SLOT 6
BIT WEIGHT	P 5 2		
TAPE TRACK	4 5 1		

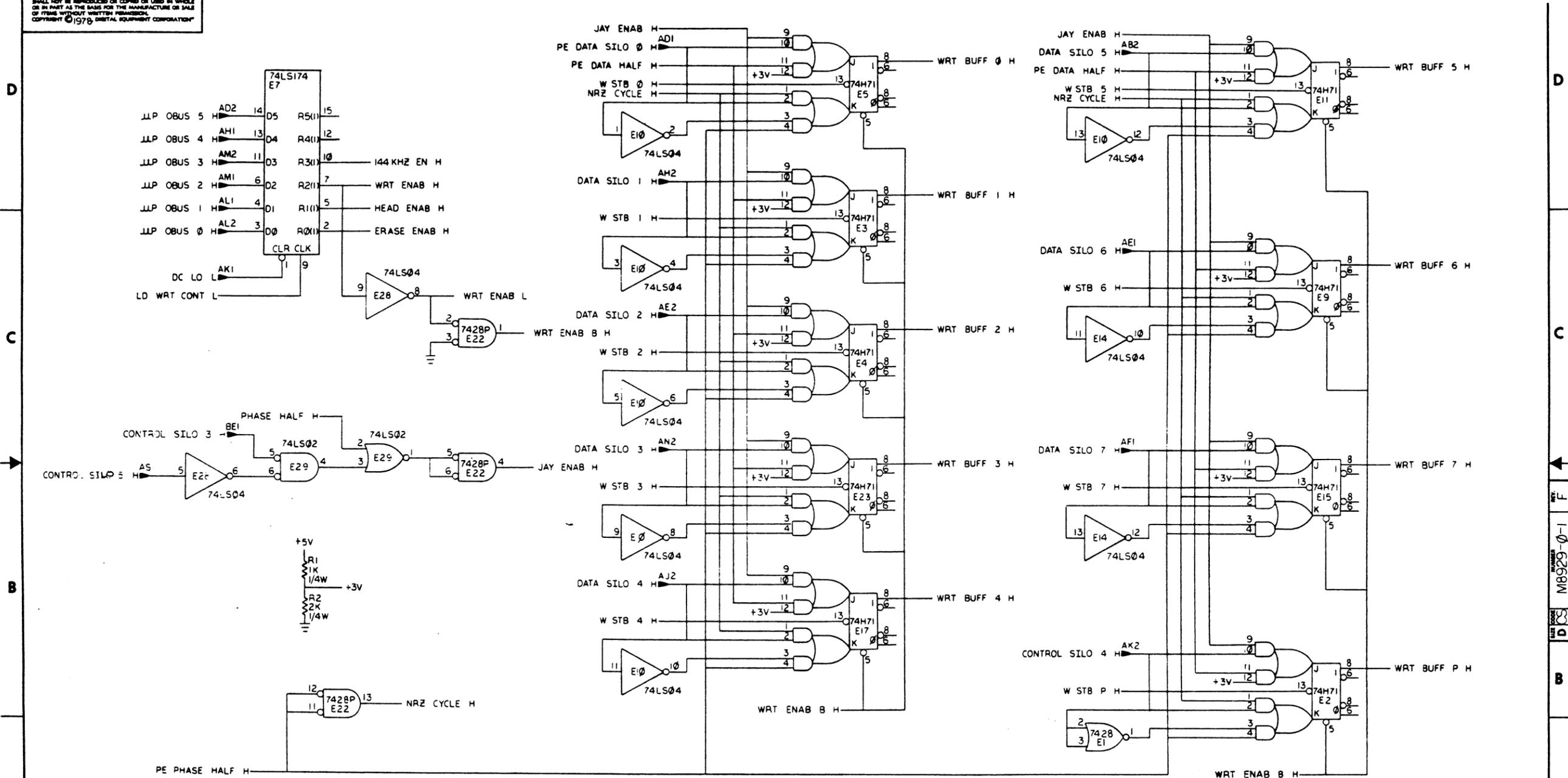
REVISIONS		
CHK	CHANGE NO.	REV.

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
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1	1	D-CS-M8924-0-1		CIRCUIT SCHEMATIC		REF	
2	2	D-UA-M8924-0-0		UNIT ASSY		REF	
3	3	B-DD-M8924-0-0		DWG DIRECTORY		REF	
4	4	D-MD-5011956-0-0		DRILL & ETCH DWG		REF	
5	5		5011956-00	M8924	1		
6	6		1001610-00	.01 MFD 50V +80-20% 25U CER	48		C1-C48
7	7		1005306-00	6.8MFD 35V 10% S.TANT	3		C49-C51
8	8		1300271-00	220.0 .25 W 5.0 % CC	1		R2
9	9		1300295-00	330.0 .25 W 5.0 % CC	1		R1
10	10		1910542-00	74S64 A-0-I GATE 4-2-3-2	3		E11,E40,E42
11	11		1912697-00	LS174 FF-D HEX W/CLEAR	1		E21
12	12		1912799-00	LS00 NAND-GATE-QUAD 2IN,P	5		E18,E28,E29,E38,E46
13	13		1912801-00	LS02 NOR-GATE-QUAD 2IN	1		E16
14	14		1912803-00	74LS04 INVERTER GATE, HEX	3		E14,E32,E41
15	15		1912805-00	LS08 AND GATE-QUAD 2IN,PO	6		E2,E3,E10,E26,E36,E39
16	16		1912808-00	LS11 AND GATE-TRIPLE 3IN	2		E15,E30
17	17		1912816-00	LS32 OR GATE-QUAD 2IN,POS	2		E22,E31
18	18		1912820-00	LS51 A-0-I GATE 2-WIDE 2I	2		E9,E13
19	19		1912824-00	LS74 FF-D DUAL,EDGE TRIGG	13		E4,E6,E8,E12,E20,E24,E27, E33-E35,E37,E43,E45
						CONT	
20	20		1912850-00	LS164 SHIFT REG. 8BIT SERI	3		E5,E47,E48
21	21		1912863-00	LS273 FF-D OCTAL W/CLEAR	1		E44
22	22		1912864-00	LS279 LATCH,QUAD-S-R	3		E17,E19,E23
23	23		1914768-01	FIFO, SLOW (67401)	3		E1,E7,E25
24	24		9006732-00	EYELET, ROLLED FLANGE, .121 OD X	4		
25	25		9008337-06	HANDLE, FLIP CHIP, MAGENTA	2		
26	26		9105740-55	*** THIS ITEM IS NOT USED ***	-		
27	27		1000023-00	330.0 MMF 100V 5%200PPM MICA	6		C52-C57
28	28	D-EC-5011956-0-0		ETCH CUT DRAWING		REF	

REVISION HISTORY		BASIC PART NO: M8924		DRN:	J.ROGERS	DATE:	30-DEC-77	I D I G I T A L			
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D:	H.RICHER	DATE:	13-JUL-78	TITLE PARTS LIST			
---	INIT	E	SECTION VARIATION INDEX					P.E.FORMATTER			
J.R.	M8924-ML001	F	[A] 00								
BK	M8924-ML003	J	[B]								
R.N.	M8924-ML004	K	[C]	DES.ENG:	R.CORNEAU	DATE:	13-JUL-78				
			[D]								
			[E]					DOCUMENT NUMBER			
			[F]	RESP.ENG.:	R.ODOM	DATE:	13-JUL-78	SIZE	CODE	NUMBER	REV
			[H]								
			[J]								
			[K]	MFG.ENG.:	P.BARTON	DATE:	13-JUL-78	K	PL	M8924-0-DBF	K
			[L]								
			[M]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #	
			[N]	D-UA-M8924-0-0		B-DD-M8924-0		Z0288K.PLS		22	

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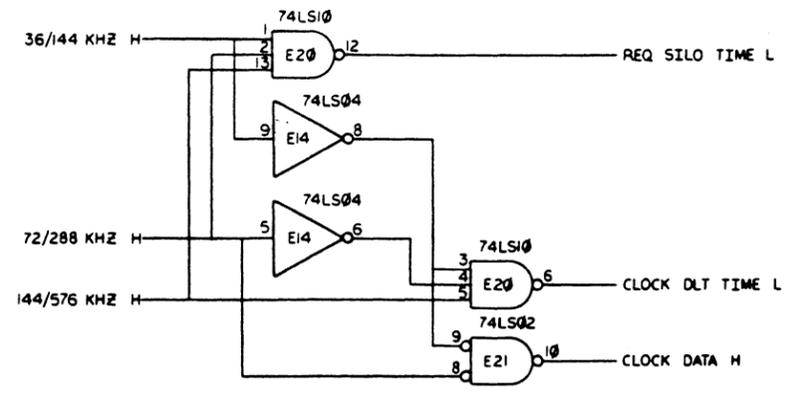
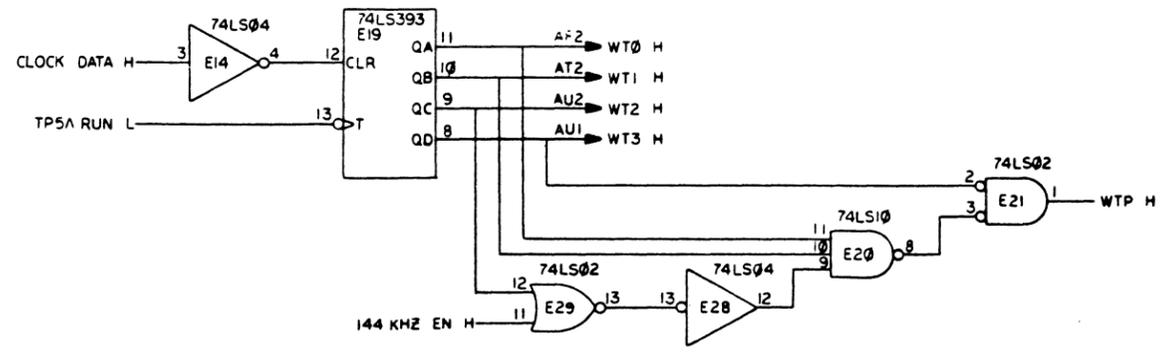
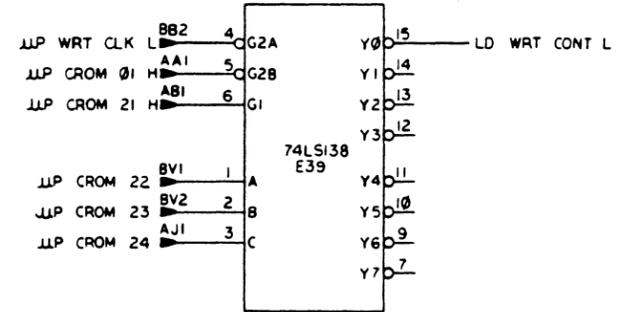
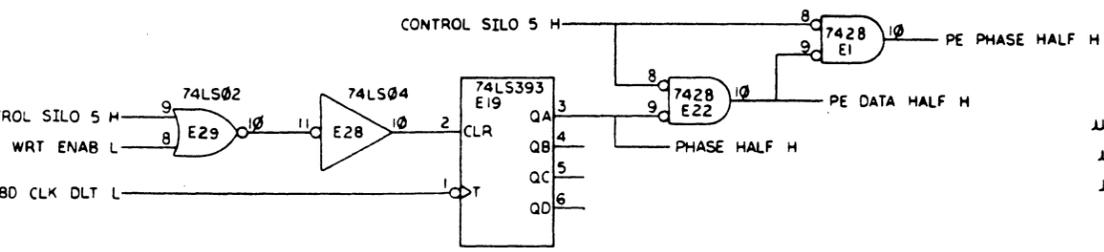
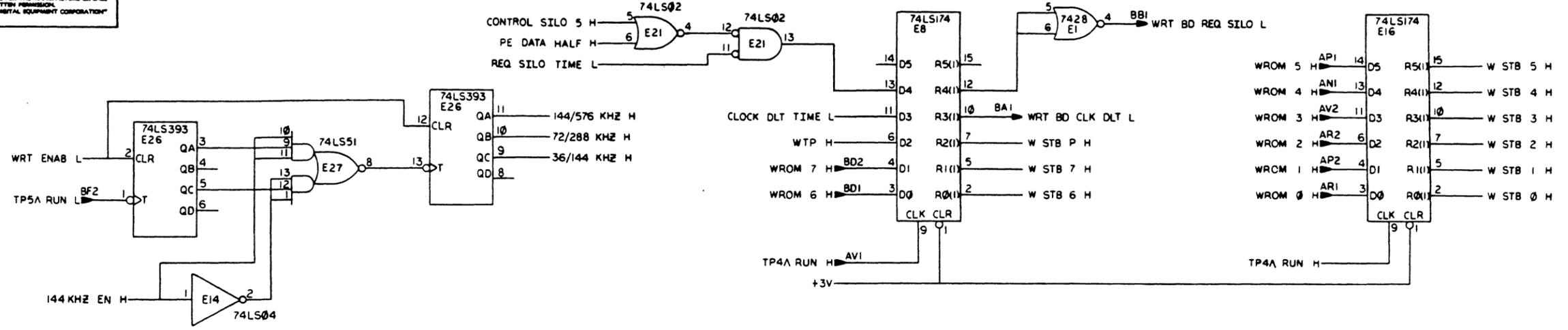


REV	CHG	BY	DATE	DESCRIPTION
1		R. CORNEAU	10/24/78	INITIAL DESIGN
2		R. CORNEAU	11/29/78	REVISED FOR MANUFACTURE
3		R. CORNEAU	12/14/78	REVISED FOR MANUFACTURE
4		R. CORNEAU	1/11/79	REVISED FOR MANUFACTURE
5		R. CORNEAU	1/18/79	REVISED FOR MANUFACTURE
6		R. CORNEAU	1/25/79	REVISED FOR MANUFACTURE
7		R. CORNEAU	2/1/79	REVISED FOR MANUFACTURE
8		R. CORNEAU	2/8/79	REVISED FOR MANUFACTURE

DRW: <i>[Signature]</i>	FIRST USED ON: TS04	DIGITAL
CHK: <i>[Signature]</i>	TITLE: WRITE CONTROL	
ENG: <i>[Signature]</i>	NUMBER: M8929-0-1	REV. F
PROD. ENGR: <i>[Signature]</i>	SCALE: 1 OF 5	
PROD. PLAN: <i>[Signature]</i>	SHEET: 1 OF 5	
NEXT HIGHER ASSY:	SIZE: D	CODE: CS

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1-0-6268W DCS 2



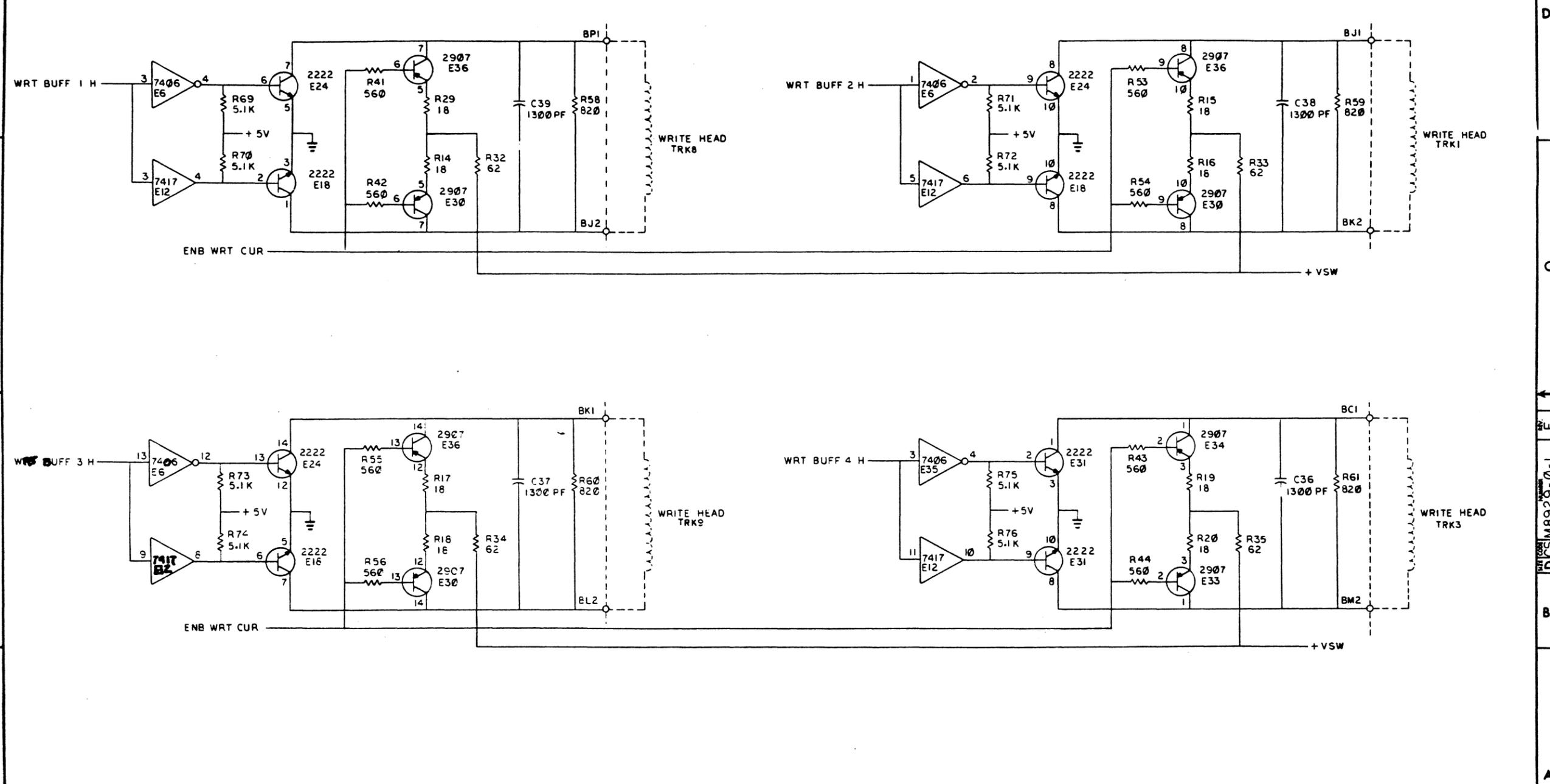
BIT	DESCRIPTION	BIT	DESCRIPTION
7	SILO PARITY	3	LPCC ENAB
6	INVERT PARITY	2	WRT FLAG
5	NRZ CYCLE	1	
4	DATA PARITY	0	

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE WRITE CONTROL SIZE CODE DCS NUMBER M8929-0-1 REV. F
SCALE SHEET 2 OF 5 DIST.

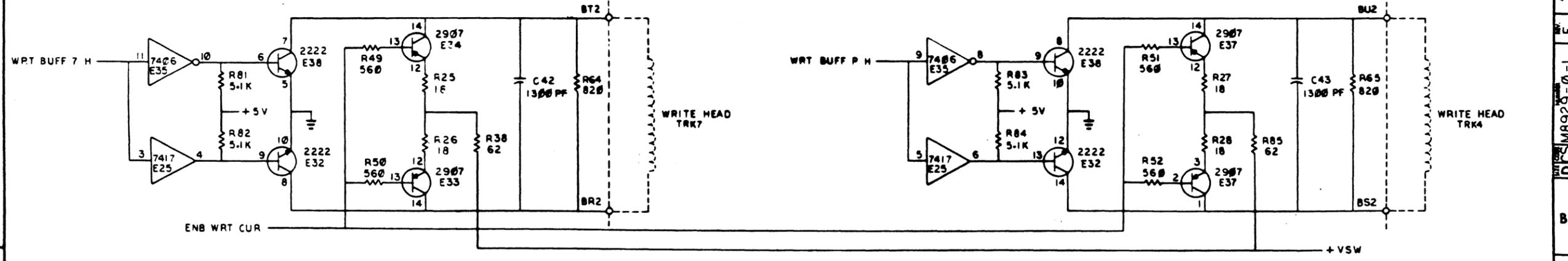
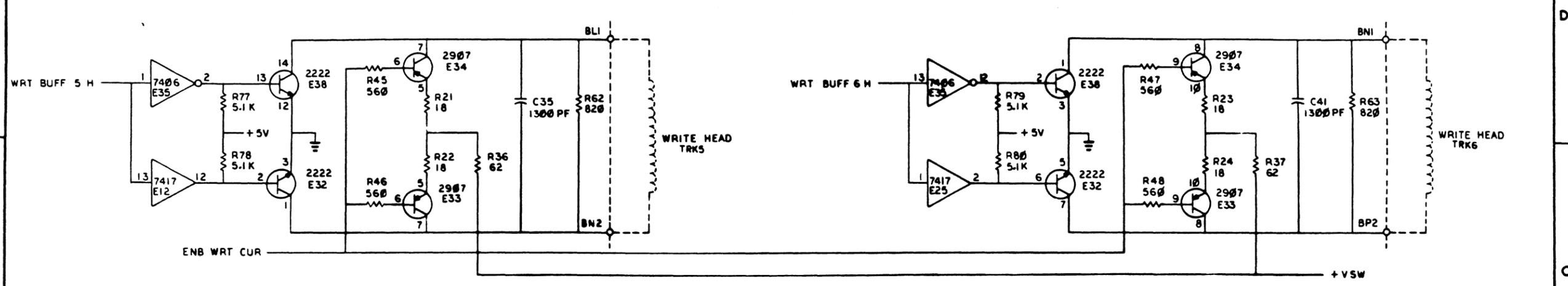
REV. F
M8929-0-1
DCS

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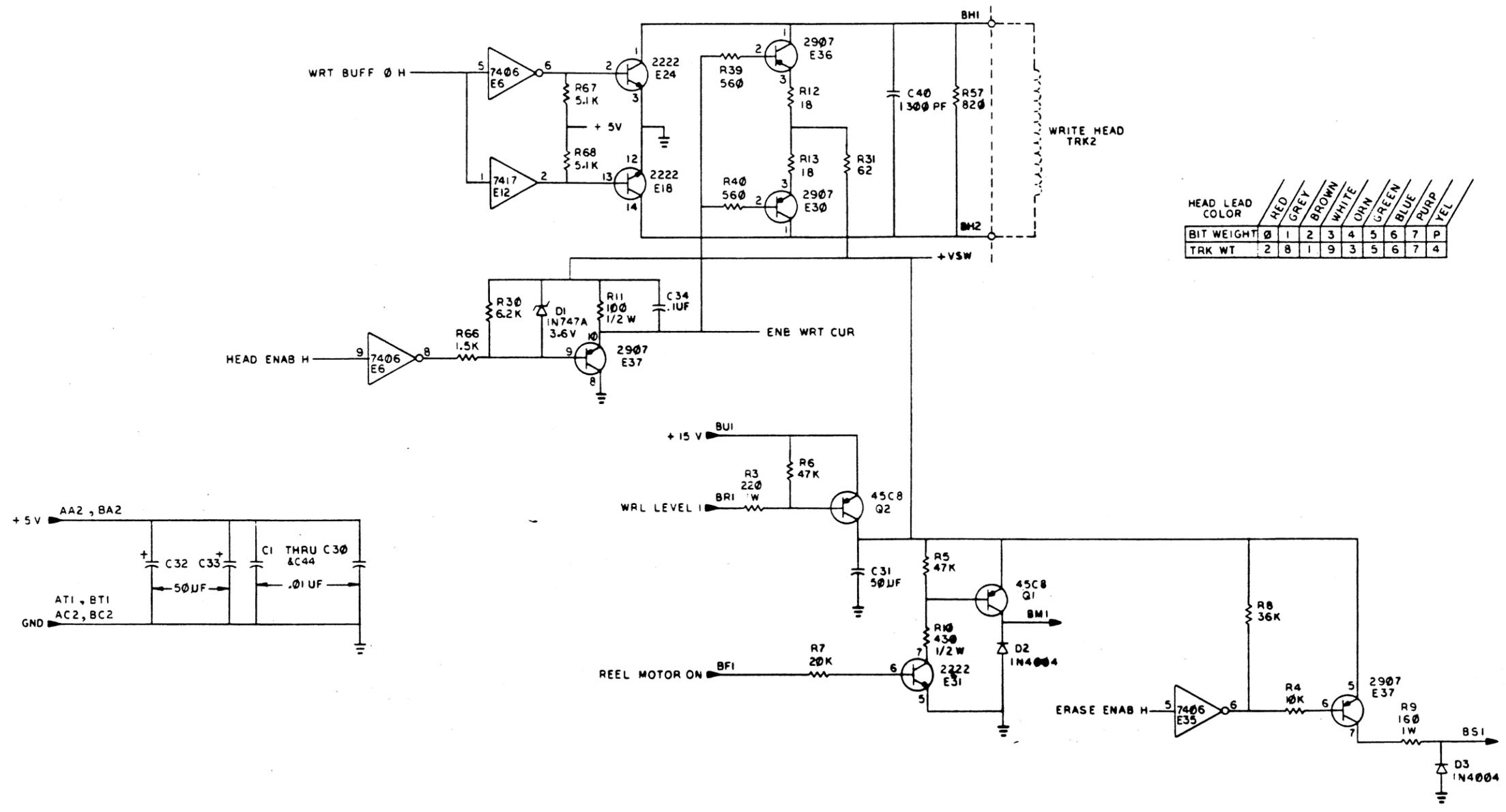
REVISIONS		
CHK	CHANGE NO.	REV.

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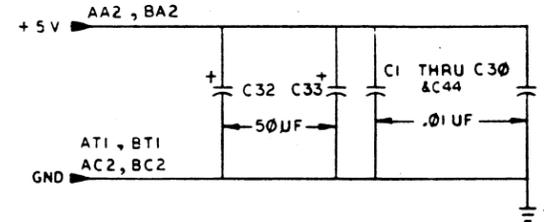


REVISIONS		
CHK	CHANGE NO.	REV.

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HEAD LEAD COLOR	RED	GREY	BROWN	WHITE	ORN	GREEN	BLUE	PURP	YEL
BIT WEIGHT	0	1	2	3	4	5	6	7	P
TRK WT	2	8	1	9	3	5	6	7	4



REVISIONS		
CHK	CHANGE NO.	REV.

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
1		D-CS-M8929-0-1		CIRCUIT SCHEMATIC			REF
2		D-UA-M8929-0-0		UNIT ASSY			REF
3		B-DD-M8929-0-0		DWG DIRECTORY			REF
4		D-MD-5012937-0-0		DRILL & ETCH DWG			REF
5			5012937-00	M8929			1
6			1000061-00	*** THIS ITEM IS NOT USED ***			-
7			1000080-00	50 MFD 50V +75-10% AL EL	3		C31-C33
8			1001610-00	.01 MFD 50V +80-20% 25U CER	31		C1-C30,C44
9			1001739-00	*** THIS ITEM IS NOT USED ***			-
10			1005306-00	*** THIS ITEM IS NOT USED ***			-
11			1100124-00	*** THIS ITEM IS NOT USED ***			-
12			1101938-00	*** THIS ITEM IS NOT USED ***			-
13			1109991-01	*** THIS ITEM IS NOT USED ***			-
14			1105796-00	1N 4004 PIV=400 I= 1A D041 SP	2		D2,D3
15			1211813-02	SOCKET 16PIN IC LOW PROFILE.	1		XE13
16			1300229-00	*** THIS ITEM IS NOT USED ***			-
17			1300277-00	220.0 1.0 W10.0 % CC	1		R3
18			1300365-00	1.0 K .25 W 5.0 % CC	1		R1
19			1300479-00	10.0 K .25 W 5.0 % CC	1		R4
20			1301322-00	*** THIS ITEM IS NOT USED ***			-
21			1301401-00	*** THIS ITEM IS NOT USED ***			-
22			1302177-00	47.0 K .25 W 5.0 % CC	2		R5,R6
23			1302388-00	2.0 K .25 W 5.0 % CC	1		R2
24			1302391-00	20.0 K .25 W 5.0 % CC	1		R7
25			1302466-00	*** THIS ITEM IS NOT USED ***			-
26			1302602-00	*** THIS ITEM IS NOT USED ***			-
27			1312932-00	36.0 K .25 W 5.0 % CC	1		R8
28			1314953-00	160.0 1.0 W 5.0 % CC	1		R9
29			1314954-00	430.0 .50 W 5.0 % CC	1		R10
30			1510421-00	*** THIS ITEM IS NOT USED ***			-

REVISION HISTORY		BASIC PART NO: M8929		DRN: H.WEINBRENNER		DATE: 02-FEB-78		DIGITAL	
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D:	R.ODOH	DATE:	02-FEB-78	TITLE	PARTS LIST
---	INIT	B	SECTION VARIATION INDEX	DES.ENG:	H.FINDEISEN	DATE:	04-APR-78	WRITE CONTROL	
BHF	MLO01	C	[A] 00	RESP.ENG.:	H.FINDEISEN	DATE:	04-APR-78	DOCUMENT NUMBER	
R.C	M8929-MLO02	D	[B]	MFG.ENG.:	P.BARTON	DATE:	04-APR-78	SIZE:CODE: NUMBER	REV
P.K	M8929-MLO03	E	[C]	ASSEMBLY NUMBER:	D-UA-M8929-0-0	TOP DOCUMENT NUMBER:	B-DD-M8929-0-0	FILE NAME:	EDIT #
R.C	M8929-MLO04	F	[D]					20214F.PLS	21
			[E]						
			[F]						
			[H]						
			[J]						
			[K]						
			[L]						
			[M]						
			[N]						

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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
					00	
31	31		1510598-00	DEC45C8 PNP 27WT SI 60 20 Y	2	Q1, Q2
32	32		1514961-00	TPQ2222 NPN 500MW SI 40 100	5	E24, E18, E38, E32, E31
33	33		1514962-00	TPQ2907 PNP 500MW SI 40 100	5	E37, E36, E30, E34, E33
34	34		1909067-00	74H71 FF-JK MASTER SLAVE 2	9	E2-E5, E9, E11, E15, E17, E23
35	35		1910741-00	7406 INVERTER GATE-HEX 11	2	E6, E35
36	36		1912697-00	LS174 FF-D HEX W/CLEAR	3	E7, E8, E16
37	37		1912801-00	LS02 NOR-GATE-QUAD 2IN	2	E21, E29
38	38		1912803-00	74LS04 INVERTER GATE, HEX	3	E10, E14, E28
39	39		1912807-00	LS10 NAND GATE-TRIPLE 3IN	1	E20
40	40		1912820-00	LS51 A-0-I GATE 2-WIDE 2I	1	E27
41	41		1912842-00	LS138 DECODER-THREE INPUT	1	E39
42	42		1913312-00	7428P NOR GATE-QUAD 2IN POS	2	E1, E22
43	43		1914451-00	74LS393 COUNTER, BINARY, 4BIT	2	E19, E26
44	44		1914466-00	*** THIS ITEM IS NOT USED ***	1	
45	45		2113646-00	*** THIS ITEM IS NOT USED ***	1	
46	46		9006732-00	EYELET, ROLL FLANGE .1210DX .219	4	
47	47		9008337-06	HANDLE, FLIP CHIP, MAGENTA	2	
48	48		23251A1-00	A1-07	1	E13
49	49		1909929-00	7417 BUFFER GATE-HEX 1INP	2	E12, E25
50	50		1110672-00	1N 747A VZ= 3.6 5%	1	D1
51	51		1300228-00	100.0 .50 W 5.0 % CC	1	R11
52	52		1302124-00	18.0 .25 W 5.0 % CC	18	R12-R29
53	53		1312929-00	62.0 .25 W 5.0 % CC	9	R31-R38, R85
54	54		1301890-00	560.0 .25 W 5.0 % CC	18	R39-R56
55	55		1301775-00	820.0 .25 W 5.0 % CC	9	R57-R65
56	56		1300391-00	1.50 K .25 W 5.0 % CC	1	R66
57	57		1312930-00	5.10 K .25 W 5.0 % CC	18	R67-R84
58	58		1312931-00	6.20 K .25 W 5.0 % CC	1	R30
59	59		1010978-36	.1 MFD 50V 10% CER	1	C34
60	60		1001633-00	1300.0 MMF 100V 5%200PPM MICA	9	C35-C43
61	61		9008301-01	SCREW, PAN, PHIL 4-40X 1/4 SS	2	
62	62		9006557-00	NUT, KEP 4-40X 1/4 AF	2	

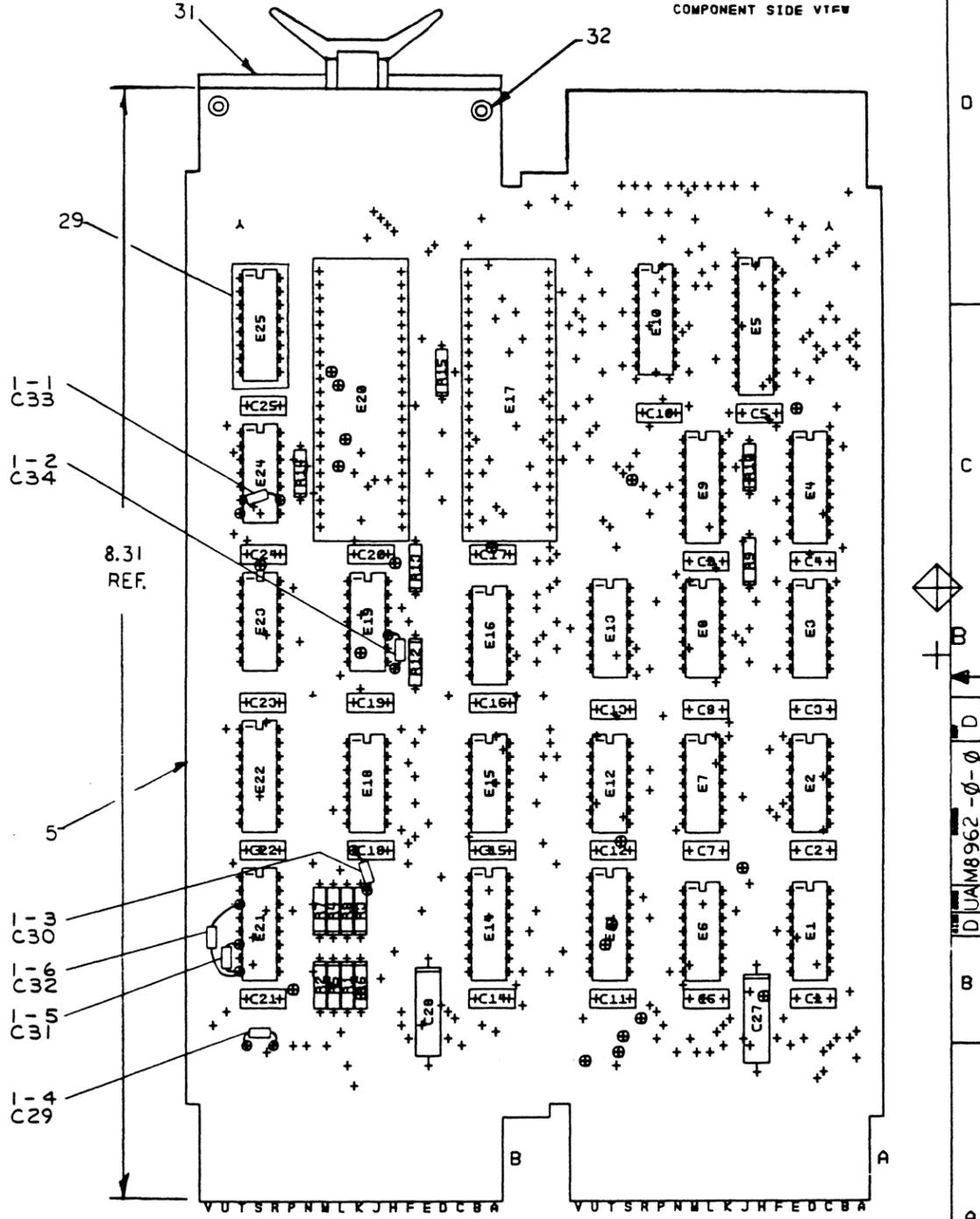
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0-0-2968MM 2

REWORK INSTRUCTIONS:

- ECO #1
- COMPONENT ADDS SIDE 1:
- 1-1 ADD CAPACITOR 100 PF FROM E24-9 TO E24-7
 - 1-2 ADD CAPACITOR 100 PF FROM E19-10 TO GND ETCH NEAR E19-8
 - 1-3 ADD CAPACITOR 100 PF FROM FEEDTHRU NEAR R3 TO GND END OF C18
 - 1-4 ADD CAPACITOR 100 PF FROM BT1 TO BR1 AT FEEDTHRU APPROX. 3/4" ABOVE GOLD FINGERS
 - 1-5 ADD CAPACITOR 100 PF FROM E21-6 TO E21-8
 - 1-6 ADD CAPACITOR 100 PF FROM E21-3 TO E21-8 (USE SLEEVING)



NOTES:

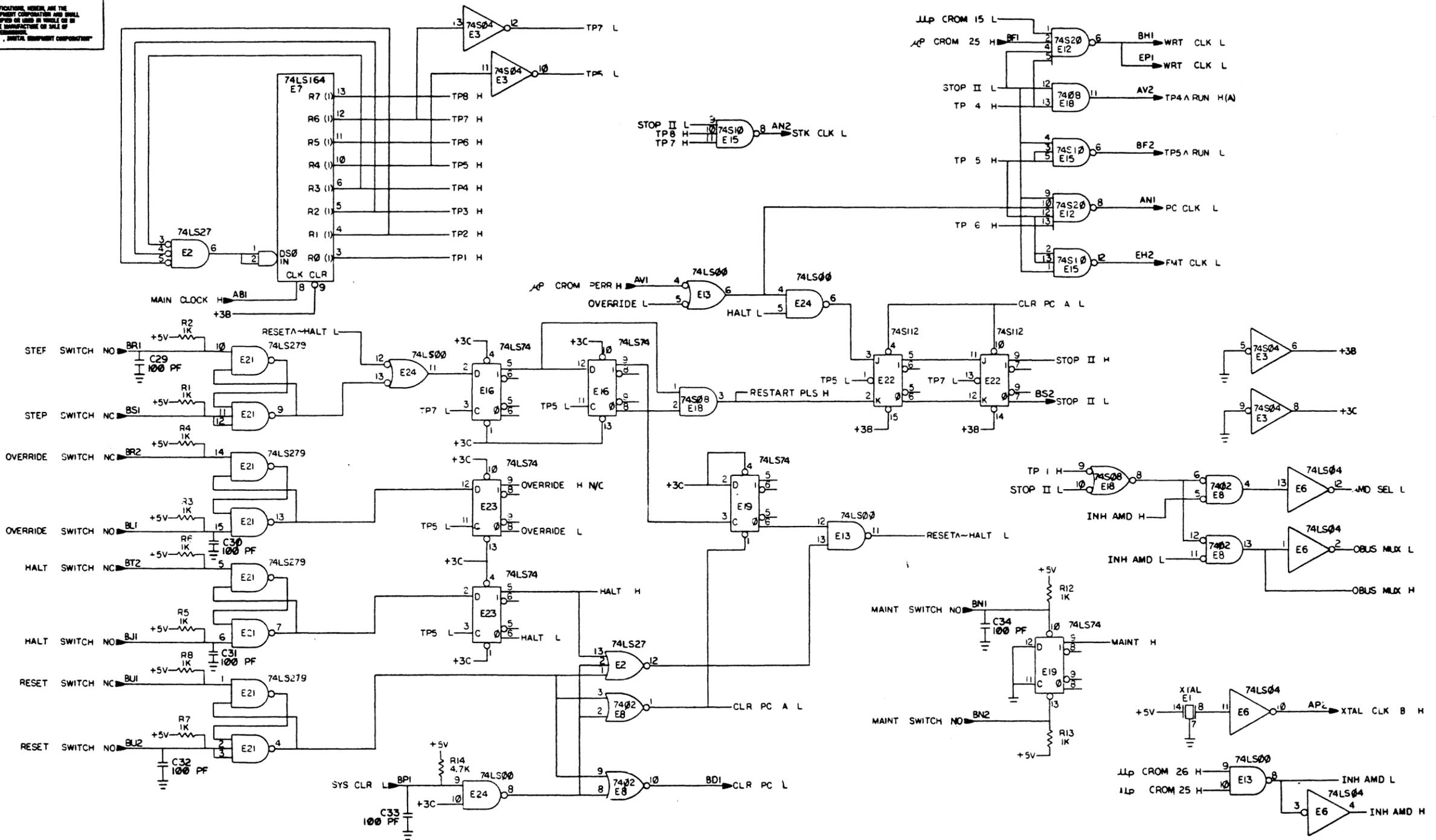
CHANGE NO	REV	DATE	BY
M8962-M100	D	2/27/77	B. KRASNICK

ETCH REV. D	P.C. DESIGN DATA BASE REV. M8962X DL
-------------	--------------------------------------

SIGNATURES		DATE	digital	TITLE MICRO-PROCESSOR BOARD ONE
DRN. P. J. ...	CHK'D. ...	2-5-79		
ENC. ...	PROJ. ENG. ...	1/19/79	SIZE	CODE
PROD. ...		1/19/79		
SCALE 2/1	SMT. OF 5	NEXT HIGHER ASSY. B-DD-M8962-0-0	NUMBER	REV
			0	UA M8962-0-0

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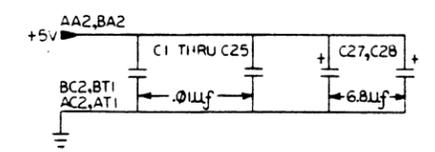
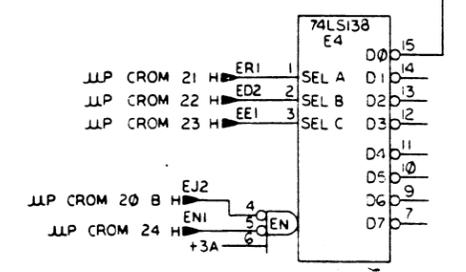
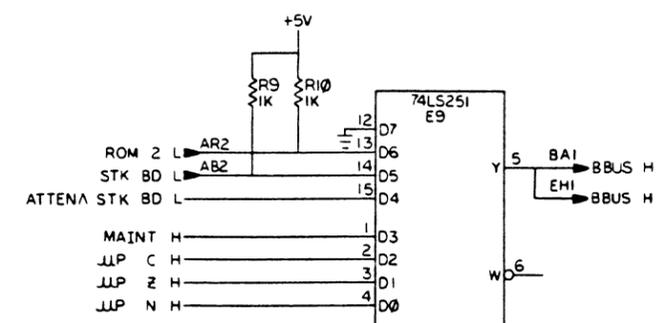
1-0-2968W SQ 2



REV.	REV.
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10

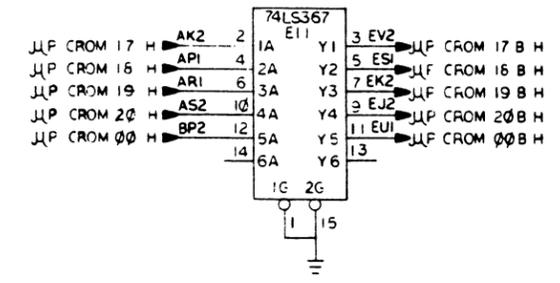
DATE	5/1/77	FIRST USED ON	TS04
CHK'D BY	...	TITLE	MICROPROCESSOR BOARD I
ENGR.	...	SCALE	
PROJ. ENG.	...	SHEET	OF 3
PROD. L.C.	...	SIZE CODE	D CS M8962-0-1
NEXT HIGHER ASSY.	B-00-M8962-0	NUMBER	
SCALE		REV	D
SHEET	OF 3	DIST	

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AC1 → EN2 → JLP CROM 01 H

OVER TOP CONNECTOR	
SIGNAL	PIN
JLP CROM 00 B H	EU1
JLP CROM 01 H (AC1)	EN2
JLP CROM 17 B H	EV2
JLP CROM 18 B H	ES1
JLP CROM 19 B H	EK2
JLP CROM 20 B H	EJ2
JLP CROM 21 H	ER1
JLP CROM 22 H	ED2
JLP CROM 23 H	EE1
JLP CROM 24 H	EN1
JLP OBUS 0 H	ER2
JLP OBUS 1 H	ET2
JLP OBUS 2 H	EM2
JLP OBUS 3 H	ES2
JLP OBUS 4 H	EE2
JLP OBUS 6 H	EVI
JLP OBUS 7 H	EL2
JLP IBUS 0 H	EAI
JLP IBUS 1 H	EK1
JLP IBUS 2 H	EMI
JLP IBUS 3 H	EL1
JLP IBUS 4 H	EC1
JLP IBUS 5 H	EB1
JLP IBUS 6 H	EF1
JLP IBUS 7 H	EJ1
BBUS H	EHI
FMT CLK L	EH2
WRT CLK L	EPI
JLP OBUS 5 H	EF2
JLP CROM 8 H	ED1
JLP CROM 9 H	EP2
JLP CROM 10 H	EU2



REVISIONS		
CHK	CHANGE NO.	REV.

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
1	1	D-CS-M8962-0-1		CIRCUIT SCHEMATIC			
2	2	D-UA-M8962-0-0		UNIT ASSY			
3	3	B-DD-M8962-0-0		DWG DIRECTORY			
4	4	D-MD-5012863-0-0		DRILL & ETCH DWG			
5	5		5012863-00	M8962			
6	6		1001610-00	.01 MFD 50V +80-20% 25U CER	25		C1-C25
7	7		1005306-00	6.8MFD 35V 10% S.TANT	2		C27,C28
8	8		1300316-00	470.0 25 W 5.0 % CC	1		R15
9	9		1300365-00	1.0 K 25 W 5.0 % CC	12		R1-R10,R12,R13
10	10		1300447-00	4.70 K 25 W 5.0 % CC	1		R14
11	11		1913471-00	LS367 DRIVER,BUS,HEX,TRI-	1		E11
12	12		1912850-00	LS164 SHIFT REG. 8BIT SERI	1		E7
13	13		1910534-00	74504 INVERTER GATE-HEX II	1		E3
14	14		1910539-00	74520 NAND GATE-DUAL 4INPU	1		E12
15	15		1910545-00	745112 FF-JK DUAL,EDGE TRIG	1		E22
16	16		1911641-00	SN 745257 MUX,QUAD 2 TO 1	1		E14
17	17		1912389-00	74508 AND GATE-QUAD 2IN,PO	1		E18
18	18		1912648-00	LS251 MUX 8 INPUT,TRI-STA	1		E9
19	19		1912799-00	LS00 NAND-GATE-QUAD 2IN,P	2		E13,E24
20	20		1912813-00	LS27 NOR GATE-TRIPLE 3IN	1		E2
21	21		1912824-00	LS74 FF-D DUAL,EDGE TRIGG	3		E16,E19,E23
22	22		1912853-00	LS175 FF-D QUAD	1		E10
23	23		1912864-00	LS279 LATCH,QUAD-S-R	1		E21
24	24		1913245-00	2901 BIPOLAR MICROPROCESSO	2		E17,E20
25	25		1909004-00	DEC 7402 NOR GATE-QUAD 2IN	1		E8
26	26		1910536-00	74510 NAND GATE-TRIPLE 3IN	1		E15
27	27		1912842-00	LS138 DECODER-THREE INPUT	1		E4
28	28		1913493-00	745241 OCTAL BUFFER,TRI-STA	1		E5
29	29		1211813-02	SKT,IC 16PIN DIP GOLD PLATE	1		E25
30	30		1812131-00	OSCILLATOR, XTAL 13.824 MHZ	1		E1

REVISION HISTORY		BASIC PART NO: M8962		DRN: J. ROGERS		DATE: 21-NOV-77		DIGITAL	
ENG:	ECO NUMBER	REV	SECTION A OF A	CHK'D:	R. WALDIE	DATE:	21-NOV-77	TITLE PARTS LIST	
---	INIT	C	SECTION VARIATION INDEX					MICRO PROCESSOR BOARD 1	
B.K.	M8962-ML001	D	(A) 00						
			(B)						
			(C)	DES. ENG: P. KINZELMAN		DATE: 05-JUL-78			
			(D)						
			(E)	RESP. ENG.: P. KINZELMAN		DATE: 05-JUL-78		DOCUMENT NUMBER	
			(F)						
			(H)					SIZE: CODE: NUMBER REV	
			(J)	MFG. ENG.: P. BARTON		DATE: 05-JUL-78		K PL M8962-0-DBP D	
			(K)						
			(L)	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME: EDIT #	
			(M)	D-UA-M8962-0-0		TS04		Z0611D.PLS 22	
			(N)						

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AUTOMATED BY PRTLST.IC(5)

PARTS LIST

SHEET A2 OF A2

LINE ITEM DOCUMENT NUMBER

PART NUMBER

DESCRIPTION

QTY PER VARIATION
00

REFERENCE DESIGNATOR

31 31
32 32
33 33
34 34
35 35

9008337-06
9006732-00
1912803-00
1000016-00
9107256-11

HANDLE, FLIP CHIP, MAGENTA
EYELET, ROLL FLANGE .12100X .219
74LS04 INVERTER GATE, HEX
100.0 MMF 100V 5X200PPM MICA
TUBING, THIN WALL, .027ID UL A/R

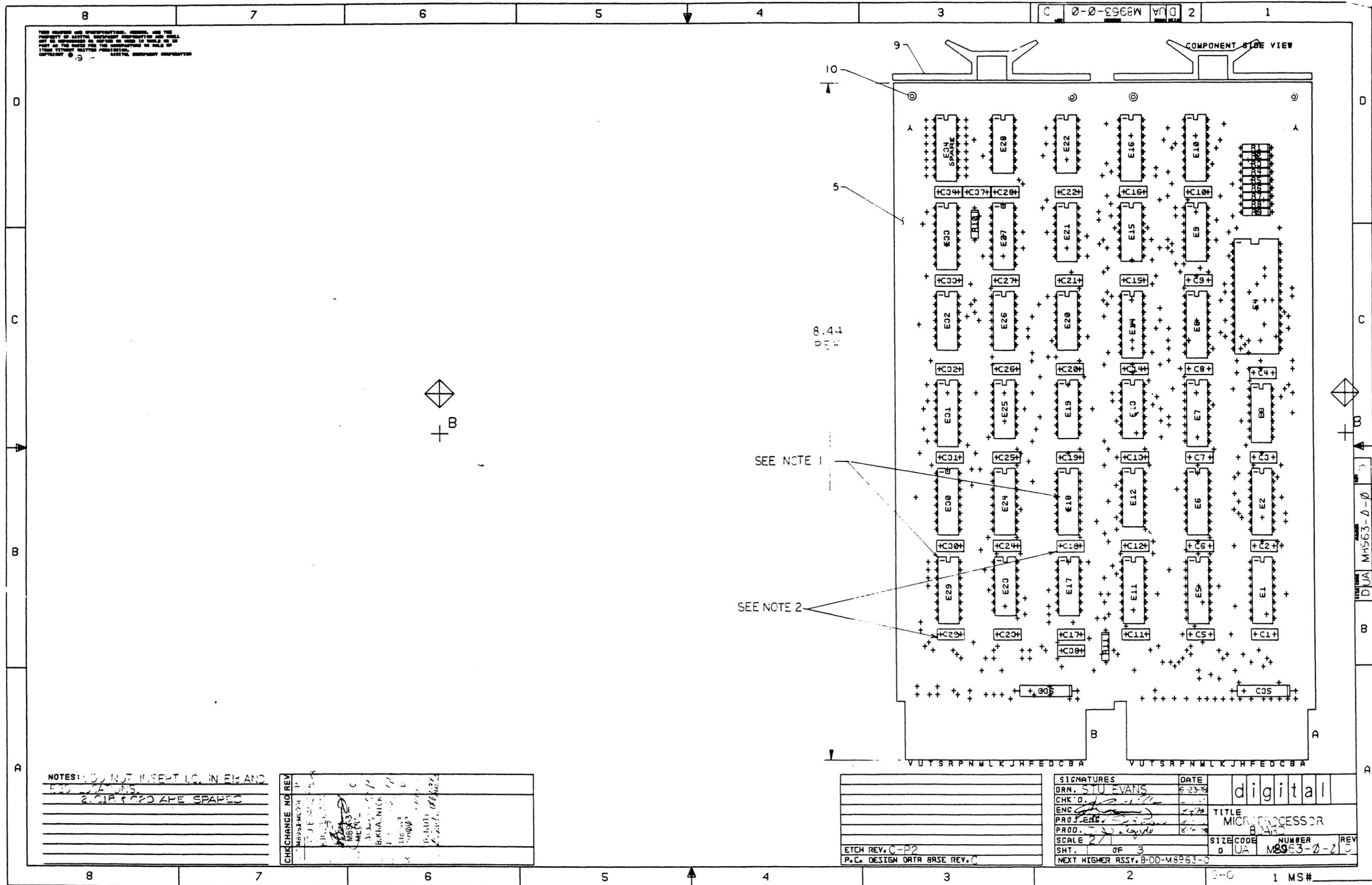
1
2
1
6
A/R

E6
C29-C34

D	I	G	I	T	A	L	TITLE	MICRO PROCESSOR BOARD 1	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
										K	PL	M8962-0-DBP	D

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0-0-0 M8963-0-0 2



NOTES: DO NOT INSERT I.C. IN E18 AND E20. C01 & C20 ARE SPARES

CHK	CHANGE NO	REV	DATE	BY	REASON

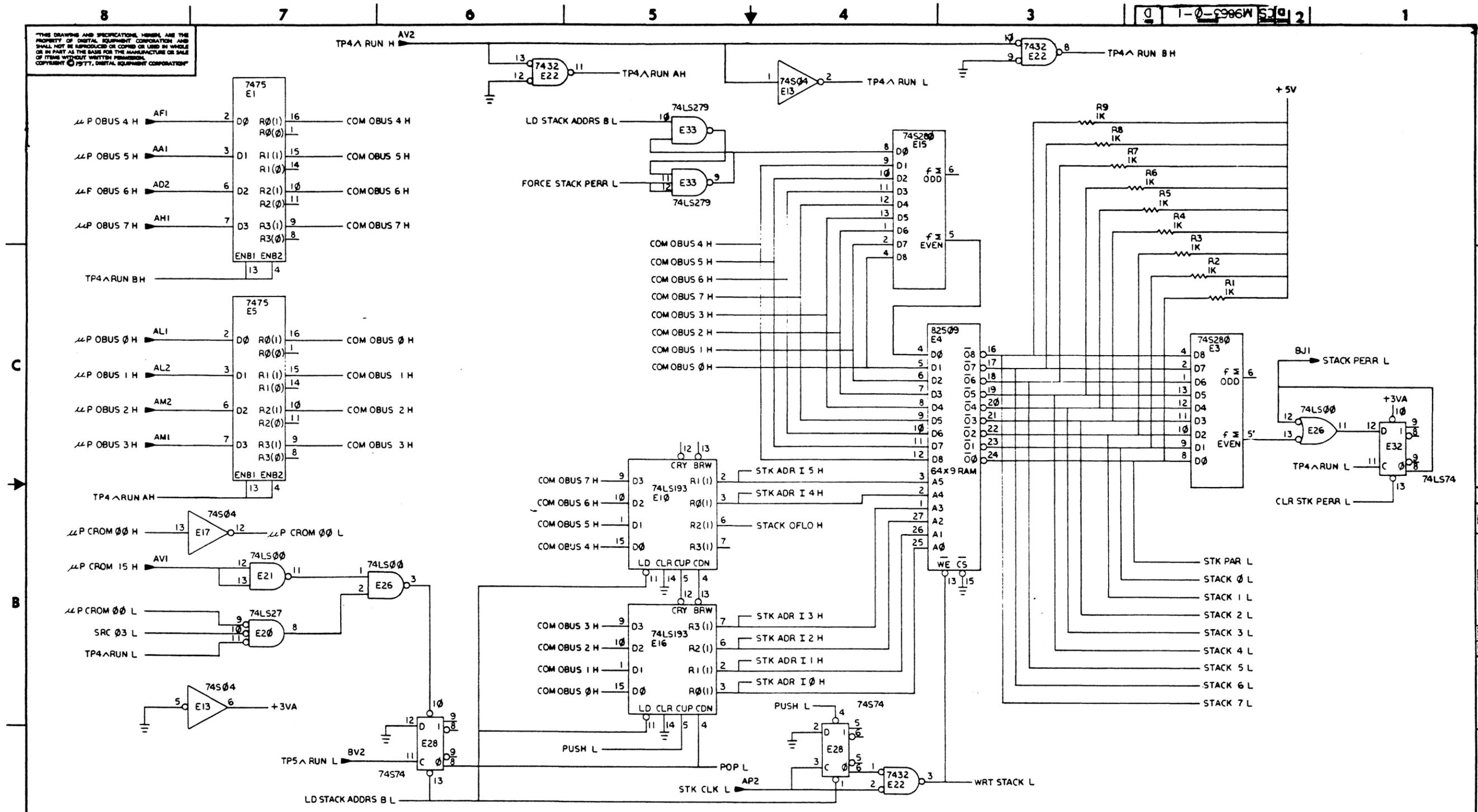
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SIGNATURES	DATE	digital
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CHK'D.		TITLE
ENG.		
PROJ. ENG.		NUMBER
PROD.		8963-0-25
SCALE 27		SIZE CODE
SHT. OF 3		01UA
NEXT HIGHER ASSY. B-DD-M8963-0		REV

0-0-0 M8963-0-0

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1-0-996W E2 2



REV. 1	REV. 2	REV. 3	REV. 4	REV. 5	REV. 6	REV. 7	REV. 8	REV. 9	REV. 10
DATE									
BY									
CHK									
APP									

DRN	CHK	ENL	PROJ	PROD	REV	DATE	BY	CHK	APP
1-0-996W									
TITLE					MICROPROCESSOR BOARD 2				
NEXT HIGHER ASSY.					B-00-M9863-0				
SCALE					NONE				
SHEET					1 OF 3				
ETCH REV					C-PR				
FIRST USED ON					TS04				
SIZE					D CS				
NUMBER					M9863-0-1				
REV.					D				

REV. D CS M9863-0-1

AUTOMATED BY PRTLST.2D(15)

PARTS LIST

SHEET A1 OF A1

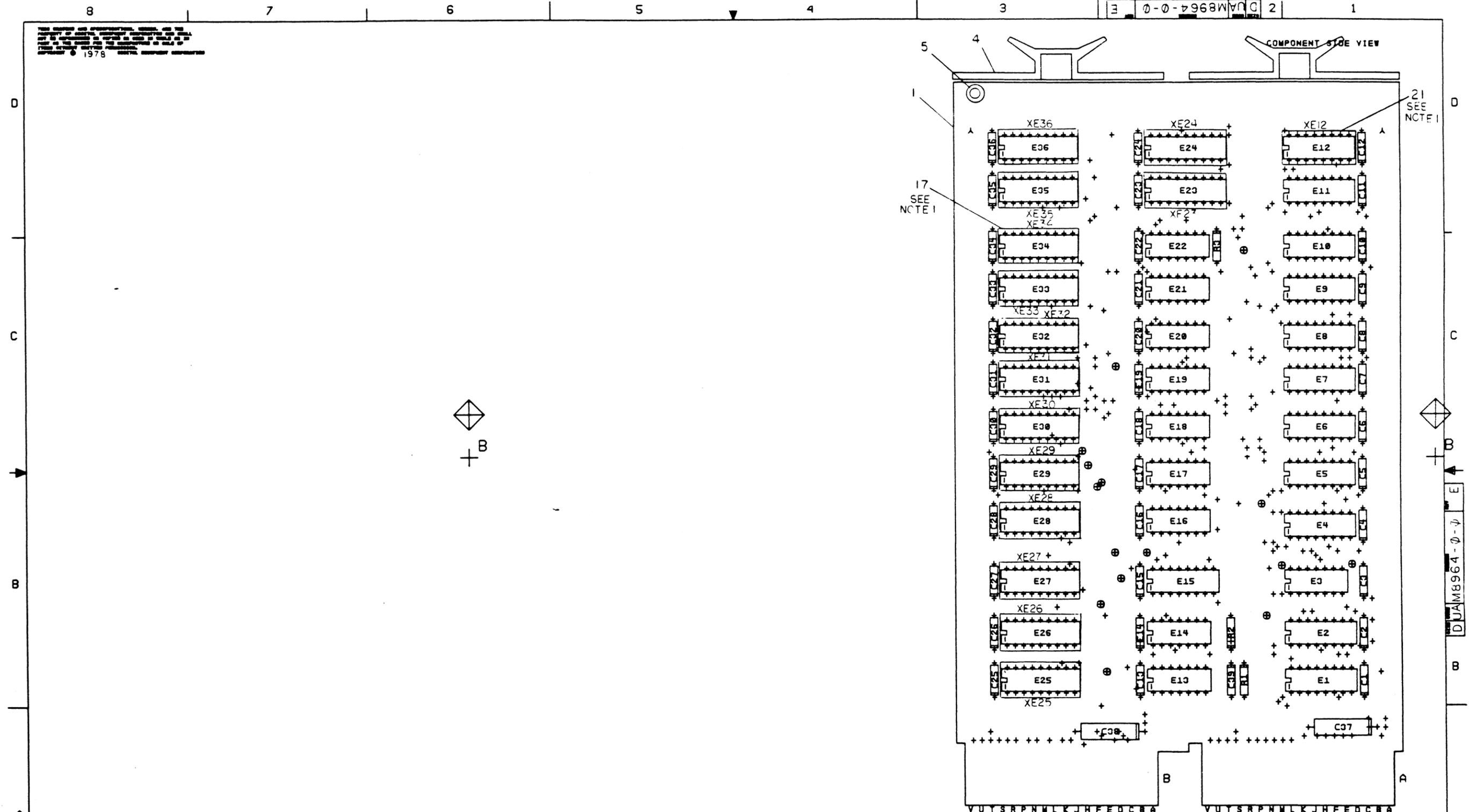
LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
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1	1	D-CS-M8963-0-1		CIRCUIT SCHEMATIC			REF
2	2	D-UA-M8963-0-0		UNIT ASSEMBLY			REF
3	3	B-DD-M8963-0-0		DWG. DIRECTORY			REF
4	4	D-MD-M8963-0-0		DRILL & ETCH DWG.			REF
5	5		5012890-00	M8963	1		
6	6		1001510-00	.01 MFD 50V +80-20% Z5U CER	34		C1-C17,C19 C28,C30-C34,C37,C38
7	7		1005306-00	6.8MFD 35V 10% S.TANT	2		C35,C36
8	8		1300365-00	1.0 K .25 W 5.0 % CF	11		R1-R11
9	9		9003337-06	HANDLE, FLIP CHIP, MAGENTA	2		
10	10		9006732-00	EYELET,ROLLED 0.1210DX0.219	4		
11	11		1912859-00	LS258 MUX 1 OF 2 (DUAL),	4		E2,E6,E11,E7
12	12		1912810-00	LS20 NAND GATE-DUAL 4IN	1		E12
13	13		1912648-00	LS251 MUX 8 INPUT,TRI-STA	1		E24
14	14		1912799-00	LS00 NAND-GATE-QUAD 2IN,P	2		E21,E26
15	15		1912803-00	LS04 INVERTER GATE,HEX	2		E9,E17
16	16		1912853-00	LS175 FF-D QUAD	2		E14,F27
17	17		1909929-00	7417 BUFFER GATE-HEX 1INP	2		E23,E25
18	18		1912824-00	LS74 FF-D-DUAL,EDGE TRIGG	1		E32
19	19		1909050-00	7475 LATCH 4BIT	2		E1,E5
20	20		1910534-00	74504 INVERTER GATE-HEX 1I	1		E13
21	21		1912864-00	LS279 LATCH,QUAD-S-R	1		E33
22	22		1912813-00	LS27 NOR GATE-TRIPLE 3IN	1		E20
23	23		1910544-00	74574 FF-D DUAL,EDGE TRIGG	1		E28
24	24		1911521-00	7432 OR GATE-QUAD 2IN, PO	1		E22
25	25		1911573-00	745280 PARITY GEN/CHKR,9BIT	2		E3,E15
26	26		1912854-00	LS193 COUNTER,SYNCHR,4BIT,	2		E10,E16
27	27		1912697-00	LS174 FF-D HEX W/CLEAR	1		E8
28	28		1912842-00	LS138 DECODER-THREE INPUT,	2		E30,E31
29	29		1912815-00	LS30 NAND GATE-SINGLE 8IN	1		E19
30	30		1913663-00	934190C RAM 64X9 28PIN TT	1		E4

REVISION HISTORY			BASIC PART NO:	DRN:		DATE:		D I G I T A L	
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D:	DATE:	TITLE	PARTS LIST		
WE	00001	B	SECTION VARIATION INDEX	C. CAMPBELL	17-JUL-78	MICROPROCESSOR BOARD			
BK	M8963-ML002	C	[A] 00	N. FINDEAN	17-JUL-78	DOCUMENT NUMBER			
RN	M8963-SH003	D	[B]	N. FINDEAN	17-JUL-78	SIZE	CODE	NUMBER	REV
			[C]	G. DILLARD	17-JUL-78	K	PL	M8963-0-DBP	D
			[D]	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME:		EDIT #	
			[E]	D-UA-M8963-0-0	TS04	Z1472D.PLS		5	
			[F]						
			[G]						
			[H]						
			[I]						
			[J]						
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1978

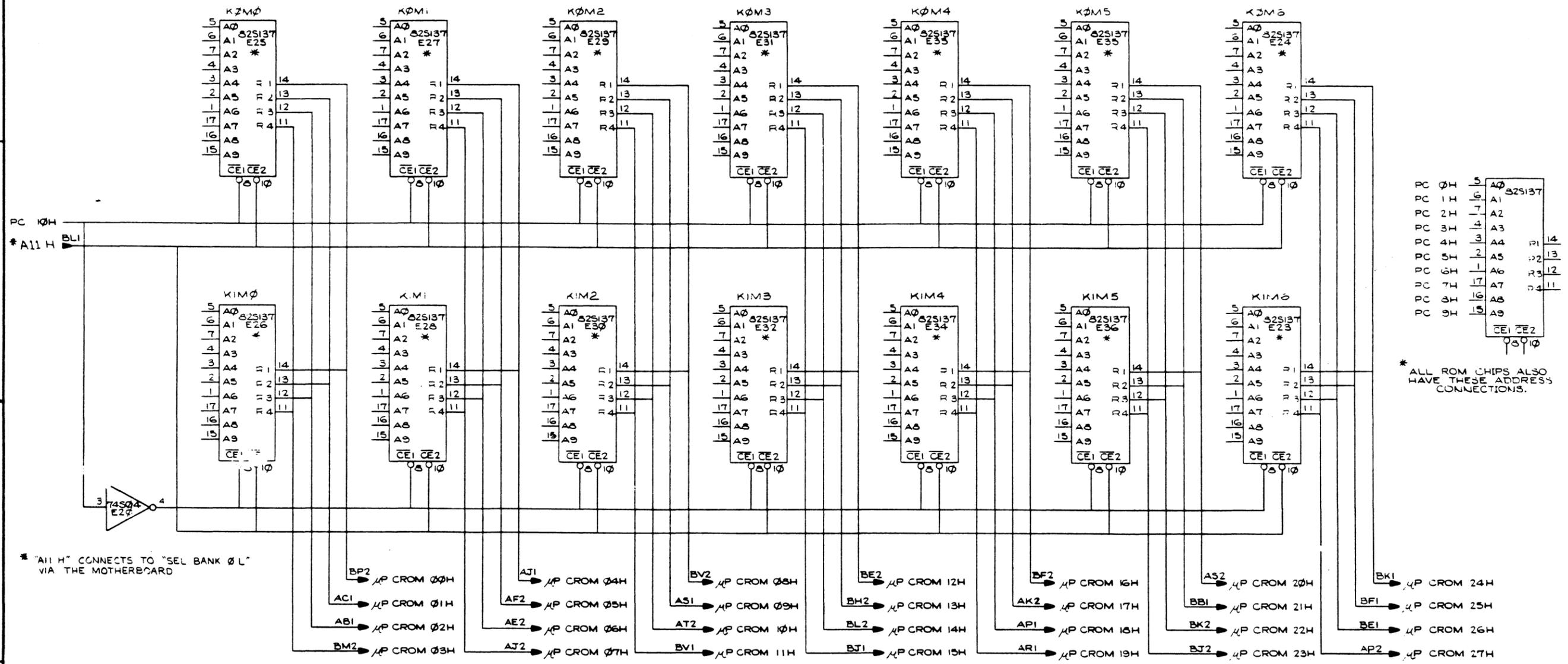
2 DUA M8964-0-0



NOTES: INSTALL SOCKETS, ITEMS 17 & 21 BEFORE INSTALLING IC'S.

CHANGE NO	REV	BY	DATE
1	A	MESCA	11/10/76
2	B	MESCA	11/10/76
3	C	MESCA	11/10/76
4	D	MESCA	11/10/76
5	E	MESCA	11/10/76
6	F	MESCA	11/10/76
7	G	MESCA	11/10/76
8	H	MESCA	11/10/76
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26	Z	MESCA	11/10/76
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262	JB	MESCA	11/10/76
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265	JE	MESCA	11/10/76
266	JF	MESCA	11/1

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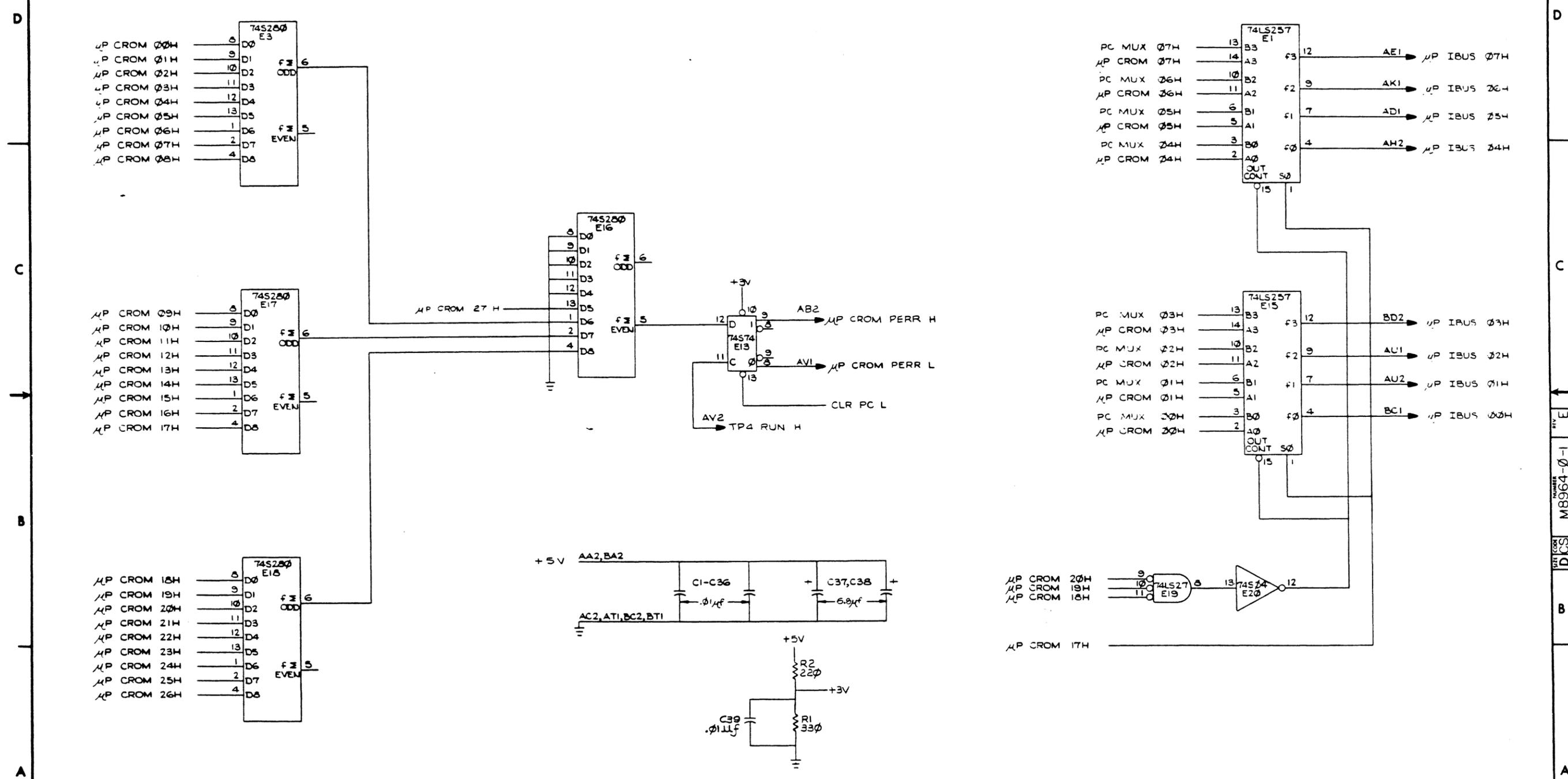


* "A11 H" CONNECTS TO "SEL BANK 0 L" VIA THE MOTHERBOARD

REV.	CHANGED BY	DATE	REASON
A	DRM	10/27/77	INITIAL
B	PAUL KINZELMAN	11/16/77	REVISED
C	PAUL KINZELMAN	11/16/77	REVISED
D	F. KINZELMAN	11/16/77	REVISED
E	B. KRASNICK	11/16/77	REVISED
F	PAUL KINZELMAN	11/16/77	REVISED

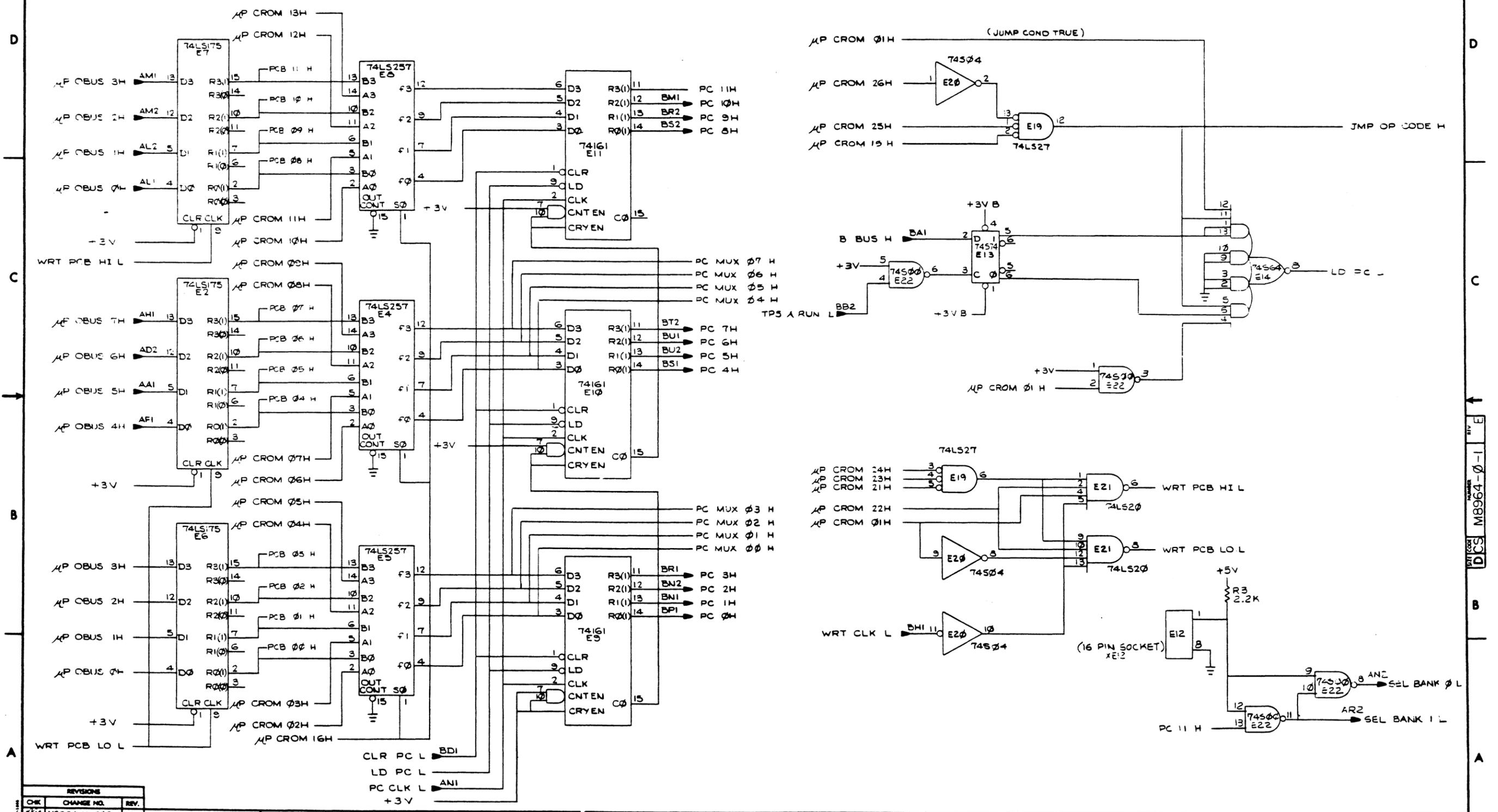
DRW. S. Gentry	4-29-77	FIRST USED ON	TS04
CHK'D BY	6-14-77	TITLE	ROM BOARD
ENG. J. S. S.	6/27/77	PROJ. ENG.	H. K. S.
PROD. J. Miller	6/27/77	NEXT NUMBER ASSY.	
SCALE		SIZE	CODE
SHEET	OF 3	NUMBER	REV.
		D CS M8964-0-1	E

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REVISIONS		
CHK	CHANGE NO.	REV.
ER	M8964-ML022	A
ENG	PAUL KINZELMAN	

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REVISIONS		
CHK	CHANGE NO.	REV.
CRN	M8964-ML002	A
ENG	PAUL KINZELMAN	

DCS M8964-0-1 REV E

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
				00	
1	1	5012817-00	M8964	1	
2	2	1001610-00	.01 MFD 50V +80-20% Z5U CER	37	C1-C36,C39
3	3	1005306-00	6.8MFD 35V 10% S.TANT	2	C37,C38
4	4	9008337-06	HANDLE, FLIP CHIP, MAGENTA	2	
5	5	9006732-00	EYELET,ROLLED 0.1210DX0.219	4	
6	6	1910534-00	74S04 INVERTER GATE-HEX 11	1	E20
7	7	1912810-00	LS20 NAND GATE-DUAL 4IN	1	E21
8	8	1910532-00	74S00 NAND GATE-QUAD 2IN	1	E22
9	9	1910650-00	74161 COUNTER,SYNCHR. UP	3	E9-E11
10	10	1910950-00	74S74 FF-D DUAL (-45 VERSI	1	E13
11	11	1912813-00	LS27 NOR GATE-TRIPLE 3IN	1	E19
12	12	1910542-00	74S64 A-0-I GATE 4-2-3-2	1	E14
13	13	1911573-00	74S280 PARITY GEN/CHKR,9BIT	4	E3,E16-E18
14	14	1912647-00	LS257 MUX 1 OF 2 (QUAD)	5	E1,E4,E5,E8,E15
15	15	1912853-00	LS175 FF-D QUAD	3	E2,E6,E7
16	16	23000F1-01	*** THIS ITEM IS NOT USED ***	-	
17	17	1211666-00	SKT,IC 18PIN DIP GOLD	14	XE23-XE36
18	18	1300271-00	220.0 .25 W 5.0 % CC	1	R2
19	19	1300295-00	330.0 .25 W 5.0 % CC	1	R1
20	20	1300417-00	2.20 K .25 W 5.0 % CC	1	R3
21	21	1211813-00	/REPLACED BY 12-15006-02	1	XE12
22	22	23622F1-00	*** THIS ITEM IS NOT USED ***	-	
23	23	23623F1-00	*** THIS ITEM IS NOT USED ***	-	
24	24	23624F1-00	*** THIS ITEM IS NOT USED ***	-	
25	25	23625F1-00	*** THIS ITEM IS NOT USED ***	-	
26	26	23626F1-00	*** THIS ITEM IS NOT USED ***	-	
27	27	23627F1-00	*** THIS ITEM IS NOT USED ***	-	
28	28	23628F1-00	*** THIS ITEM IS NOT USED ***	-	
29	29	23620F1-00	F1-01	1	E26
30	30	23397F1-00	F1-01	1	E28

REVISION HISTORY		BASIC PART NO: M8964		DRN:	L.METZGER	DATE:	18-JUL-78	D I G I T A L		
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D:	S.TUTTLE	DATE:	18-JUL-78	TITLE	PARTS LIST	
	INIT	*	SECTION VARIATION INDEX							
!PB	!ML002	!A	! [A] 00					ROM BOARD		
!P.K	!M8964-ML003	!B	! [B]							
!PK	!M8964-ML004	!C	! [C]	DES.ENG:	P.KINZELMAN	DATE:	12-SEP-78			
!BK	!M8964-ML005	!D	! [D]							
!RN	!M8964-ML006	!E	! [E]							DOCUMENT NUMBER
			! [F]	RESP.ENG.:	P.KINZELMAN	DATE:	12-SEP-78			
			! [H]					SIZE	CODE	NUMBER
			! [J]							REV
			! [K]	MFG.ENG.:	P.BARTON	DATE:	18-JUL-78	K	PL	M8964-0-DBP
			! [L]							E
			! [M]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #
			! [N]	D-UA-M8964-0-0		TS04		Z0609E.PLS		10

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2

ED BY PRTLST.2E(3)

PARTS LIST

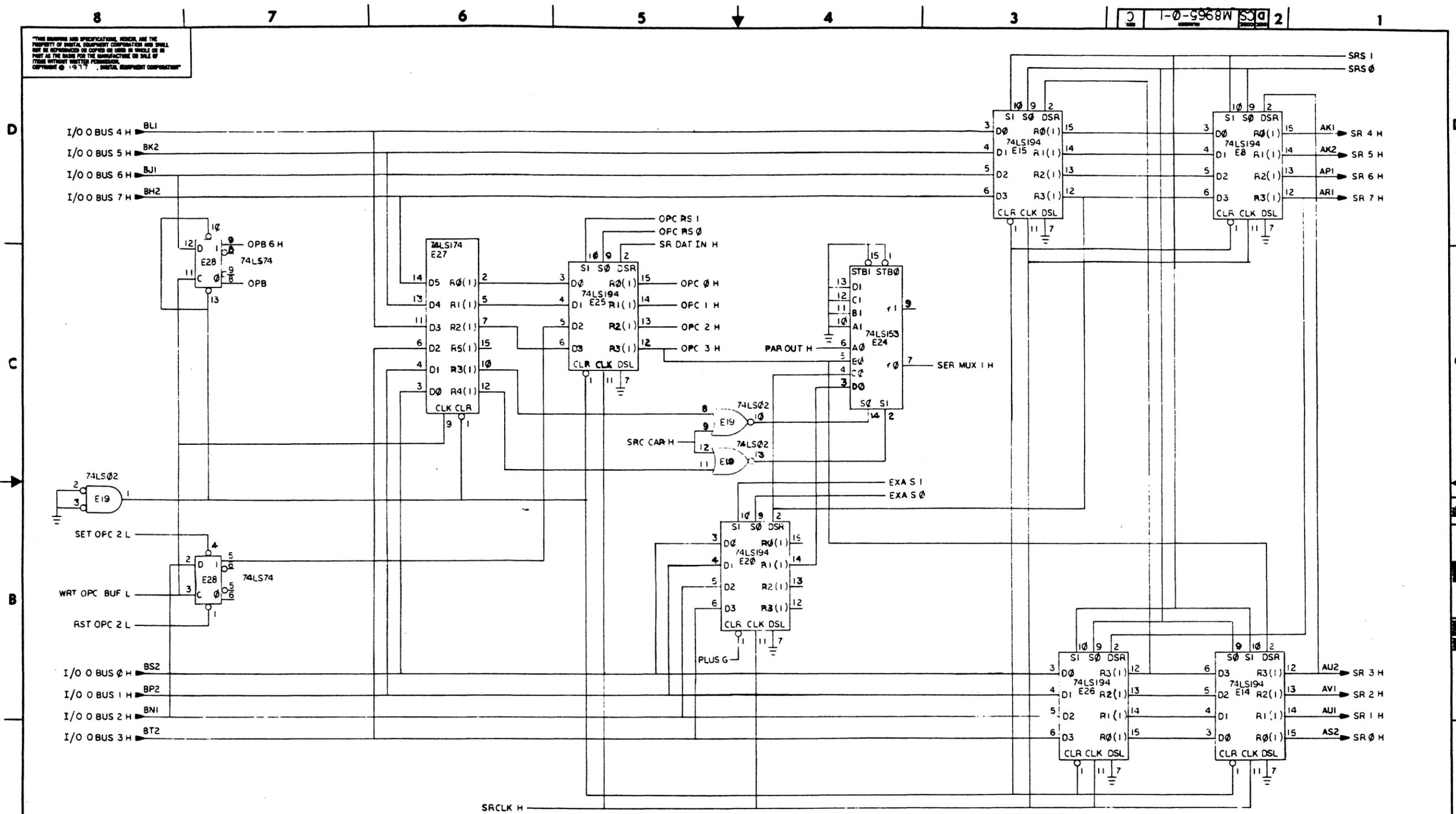
SHEET A2 OF A2

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
31	31		23398F1-00	F1-01	1	E30
32	32		23399F1-00	F1-01	1	E32
33	33		23400F1-00	F1-01	1	E34
34	34		23401F1-00	F1-01	1	E36
35	35		23621F1-00	F1-01	1	E23
36	36		23982F1-00	F1-01	1	E25
37	37		23983F1-00	F1-01	1	E27
38	38		23984F1-00	F1-01	1	E29
39	39		23985F1-00	F1-01	1	E31
40	40		23986F1-00	F1-01	1	E33
41	41		23987F1-00	F1-01	1	E35
42	42		23988F1-00	F1-01	1	E24

! D ! I ! G ! I ! T ! A ! L !	! T I T L E !	! S E C T I O N !	! S I Z E !	! C O D E !	! D O C U M E N T !	! N U M B E R !	! R E V !
	ROM BOARD	A		PL	M8964-0-DBP		E

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1-0-9968W SCD 2

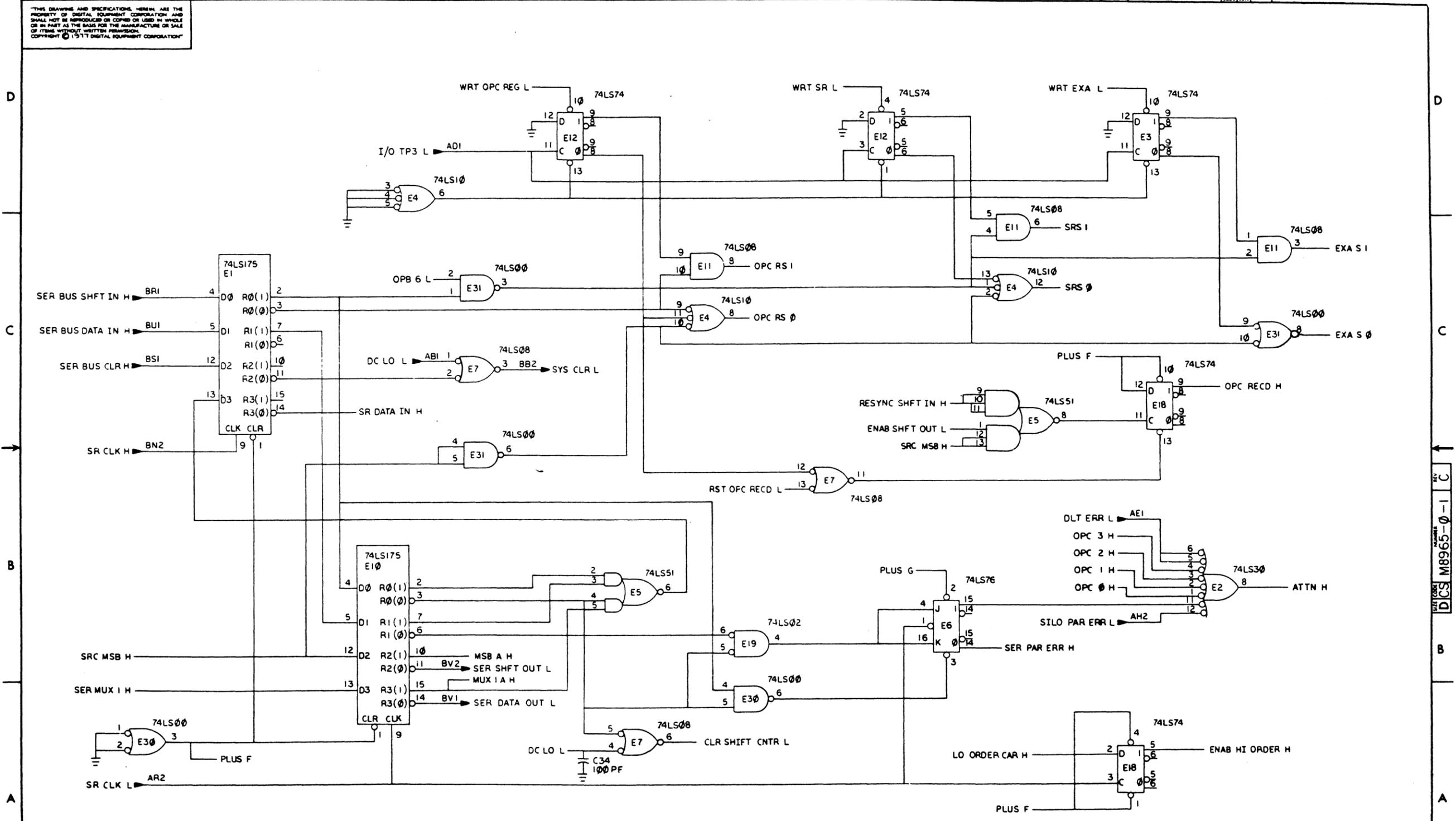


REV.	CHG.	BY	DATE
1	1	B. KRASNICK	7/7/77
2	1	B. KRASNICK	7/7/77

DRN. <i>[Signature]</i>	ACTY. <i>[Signature]</i>	FIRST USED ON	TS04
CHK'D <i>[Signature]</i>	DATE <i>[Signature]</i>	TITLE	I/O SECTION I
PROJ. ENG. <i>[Signature]</i>	DATE <i>[Signature]</i>	NEXT HIGHER ASSY.	
PROD. <i>[Signature]</i>	DATE <i>[Signature]</i>	B-DD-M8965-0	SIZE CODE
		SCALE NONE	D CS
SHEET 1 OF 3	DIST.	NUMBER	M8965-0-1
		REV.	C

D CS M8965-0-1

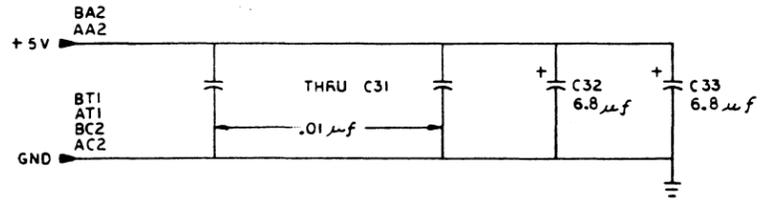
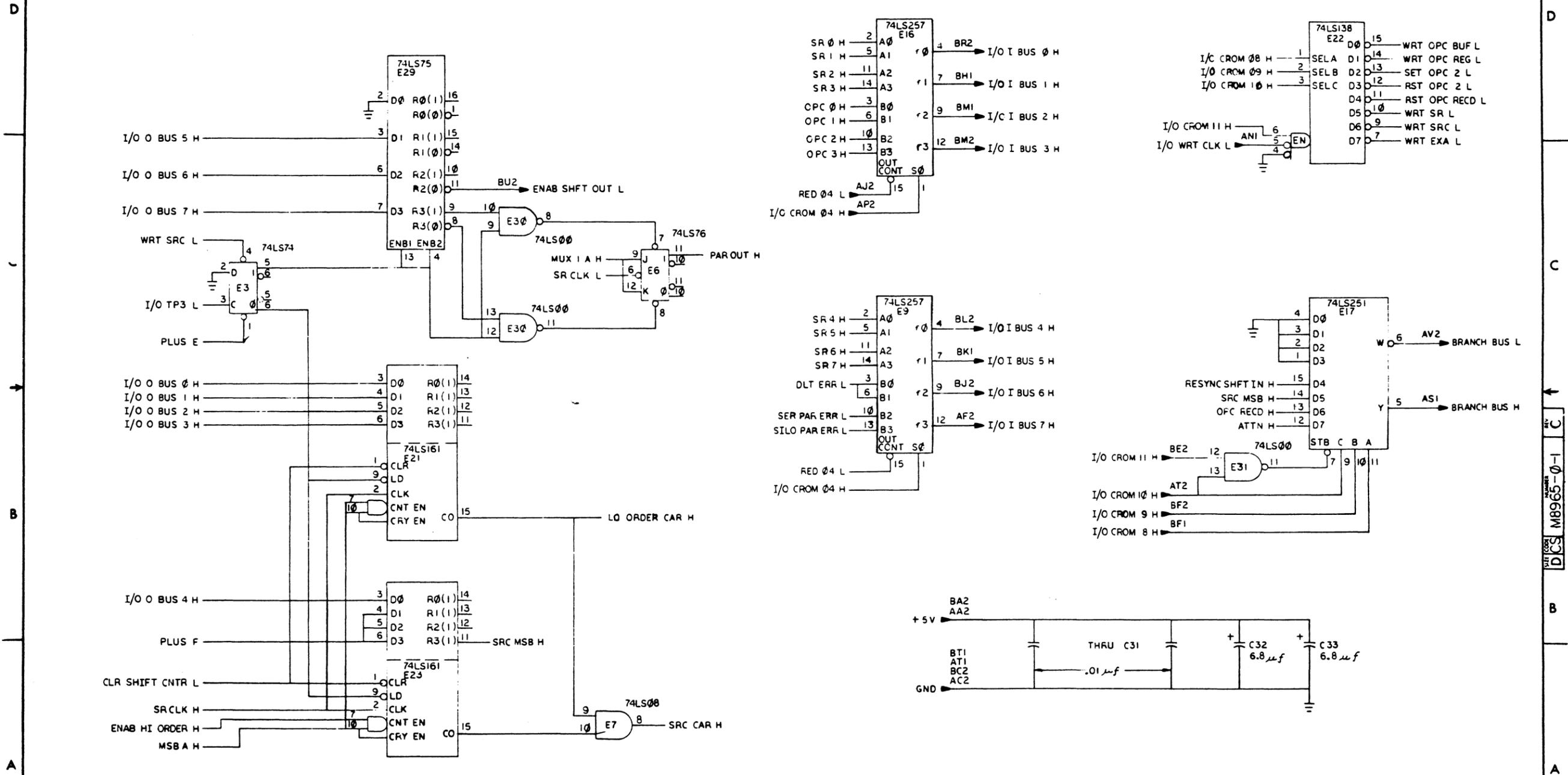
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REVISIONS		
CHK	CHANGE NO	REV

TITLE	I/O SECTION 1	SIZE CODE	D CS	NUMBER	M8965-0-1	REV.	C
SCALE	NONE	SHEET	2	OF	3	DIST.	

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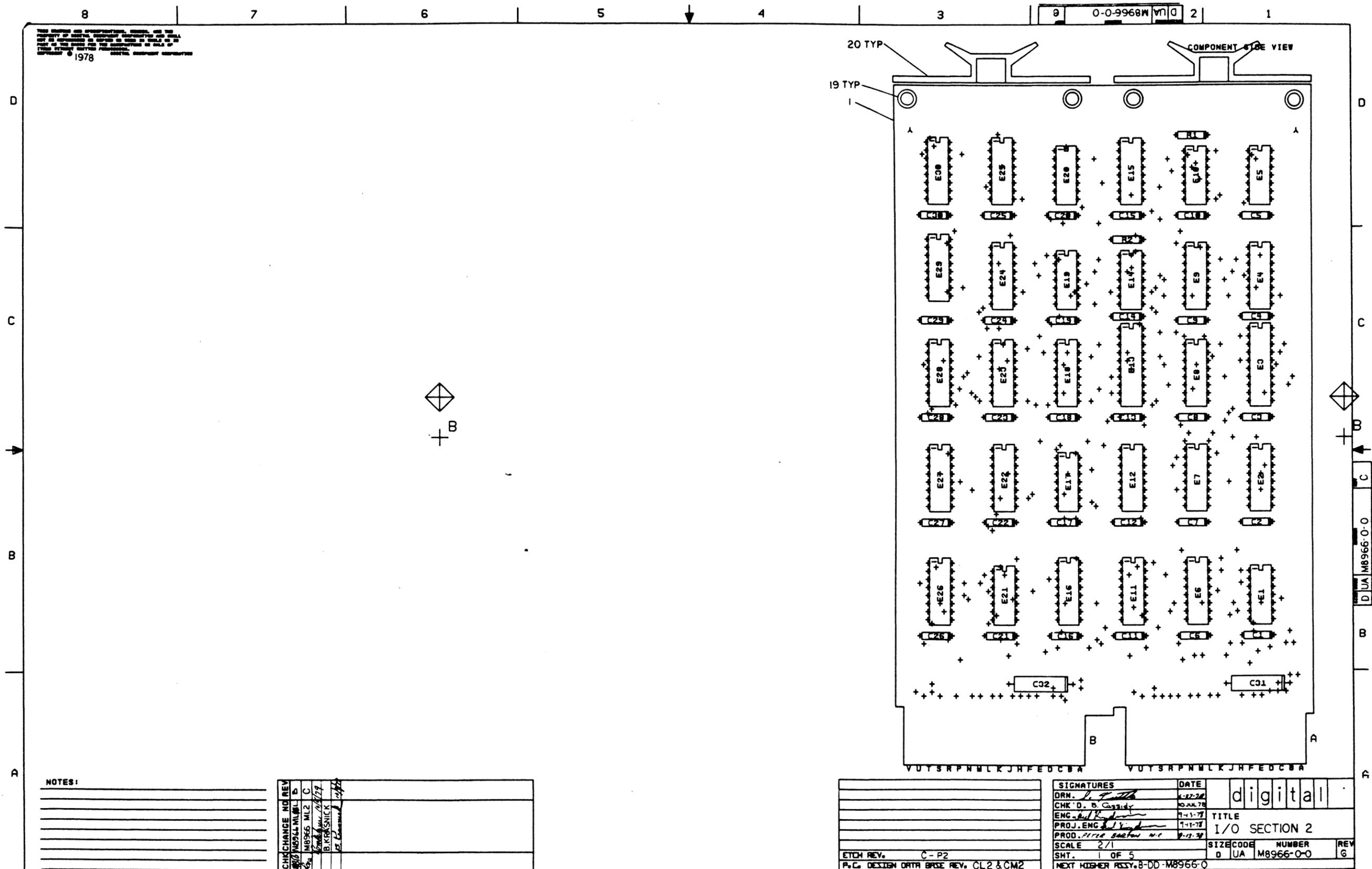
REVISIONS		
CHK	CHANGE NO.	REV

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
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1	1	D-CS-M8965-0-1		CIRCUIT SCHEMATIC	REF	
2	2	D-UA-M8965-0-0		UNIT ASSY	REF	
3	3	B-DD-M8965-0-0		DWG DIRECTORY	REF	
4	4	D-MD-5012885-0-0		DRILL & ETCH DWG	REF	
5	5		1001610-00	.01 MFD 50V -20+80 Z5U AXIAL	31	C1-C31
6	6		1005306-00	6.8MFD 35V 10% S.TANT	2	C32,C33
7	7		1912647-00	LS257 MUX 1 OF 2 (QUAD)	2	E9,E16
8	8		1912648-00	LS251 MUX 8 INPUT,TRI-STA	1	E17
9	9		1912649-00	LS75 LATCH 4BIT,BISTABLE	1	E29
10	10		1912696-00	LS194A SHIFT REG.,4BIT BI-D	6	E8,E14,E15,E20,E25,E26
11	11		1912697-00	LS174 FF-D HEX W/CLEAR	1	E27
12	12		1912799-00	LS00 NAND-GATE-QUAD 2IN,P	2	E30,E31
13	13		1912801-00	LS02 NOR-GATE-QUAD 2IN	1	E19
14	14		1912805-00	LS08 AND GATE-QUAD 2IN,PO	2	E7,E11
15	15		1912807-00	LS10 NAND GATE-TRIPLE 3IN	1	E4
16	16		1912815-00	LS30 NAND GATE-SINGLE 8IN	1	E2
17	17		1912820-00	LS51 A-O-I GATE 2-WIDE 2I	1	E5
18	18		1912824-00	LS74 FF-D DUAL,EDGE TRIGG	4	E3,E12,E18,E28
19	19		1912825-00	LS76 FF-JK DUAL W/PRESET	1	E6
20	20		1912842-00	LS138 DECODER-THREE INPUT,	1	E22
21	21		1912845-00	LS153 MUX 1 OF 4 (DUAL)	1	E24
22	22		1912849-00	LS161 COUNTER,SYNCHR,4BIT	2	E21,E23
23	23		1912853-00	LS175 FF-D QUAD	2	E1,E10
24	24	SPARE LOCATION		IC SPARE	1	E13
25	25		9008337-06	HANDLE, FLIP CHIP, MAGENTA	2	
26	26		9006732-00	EYELET, ROLLED FLANGE, .121 OD X	4	
27	27		5012885-00	M8965	1	
28	28		1000016-00	100.0 MMF 100V 5%200PPM DM15S	1	C34

REVISION HISTORY			BASIC PART NO: M8965			D I G I T A L		
ENG	ECO NUMBER	REV	SECTION A OF A	DRN:	DATE:	TITLE		
---	INIT	B	SECTION VARIATION INDEX	DON COREY	07-NOV-77	PARTS LIST		
B.K	ML001	C	[A] 00	DON COREY	07-NOV-77	I/O SECTION 1		
			[B]					
			[C]	DES.ENG: R.ODOM	11-JAN-78			
			[D]					
			[E]			DOCUMENT NUMBER		
			[F]	RESP.ENG.: H.FINDEISEN	11-JAN-78	SIZE	CODE	NUMBER
			[G]					REV
			[H]					
			[I]	MFG.ENG.: P.BARTON	11-JAN-78	K	PL	M8965-0-DBP
			[J]					C
			[K]					
			[L]	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME:		EDIT #
			[M]	D-UA-M8965-0-0		Z0610C.PLS		23
			[N]					

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0-0-9968M V10 2 1



1978

NOTES:

CHANGE NO	REV	DATE	BY	REASON
1	1	10/12/78	D. B. Cassidy	INITIAL
2	1	10/13/78	B. K. SNICK	ML2
3	1	10/13/78	B. K. SNICK	ML2
4	1	10/13/78	B. K. SNICK	ML2

ETCH REV.	C-2
P.C. DESIGN ORTR BRSE REV.	CL2 & CM2

SIGNATURES		DATE	TITLE
DRN.	<i>[Signature]</i>	10-12-78	
CHK'D.	D. B. Cassidy	10-13-78	
ENG.	<i>[Signature]</i>	10-13-78	
PROJ. ENG.	<i>[Signature]</i>	10-13-78	
PROD. REV.	<i>[Signature]</i>	10-13-78	
SCALE	2/1		SIZE CODE
SHT.	1 OF 5		0 UA M8966-0-0
NEXT HIGHER ASSY.	8-DD-M8966-0		NUMBER
			REV
			6

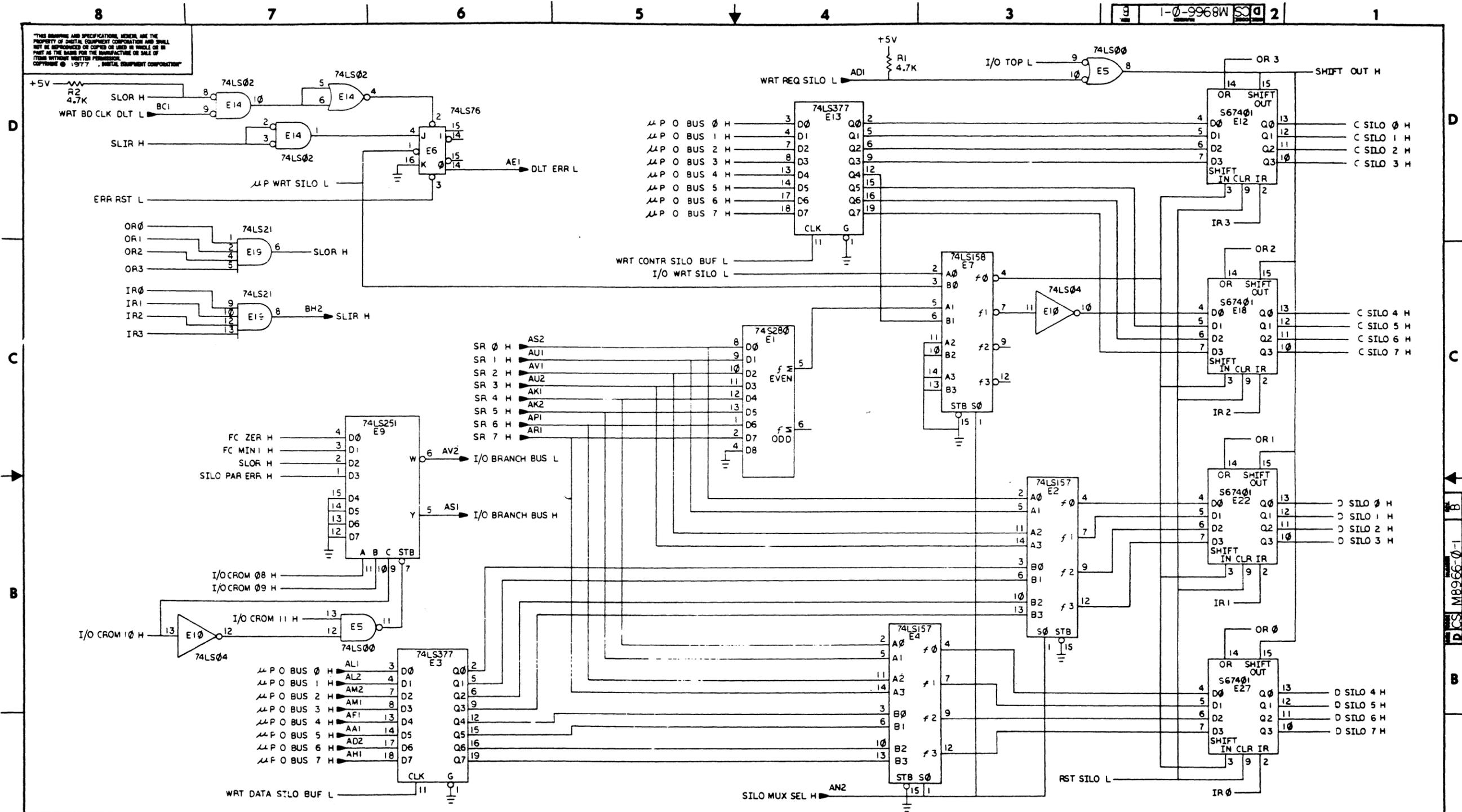
digital

I/O SECTION 2

0 UA M8966-0-0

MS# 262426

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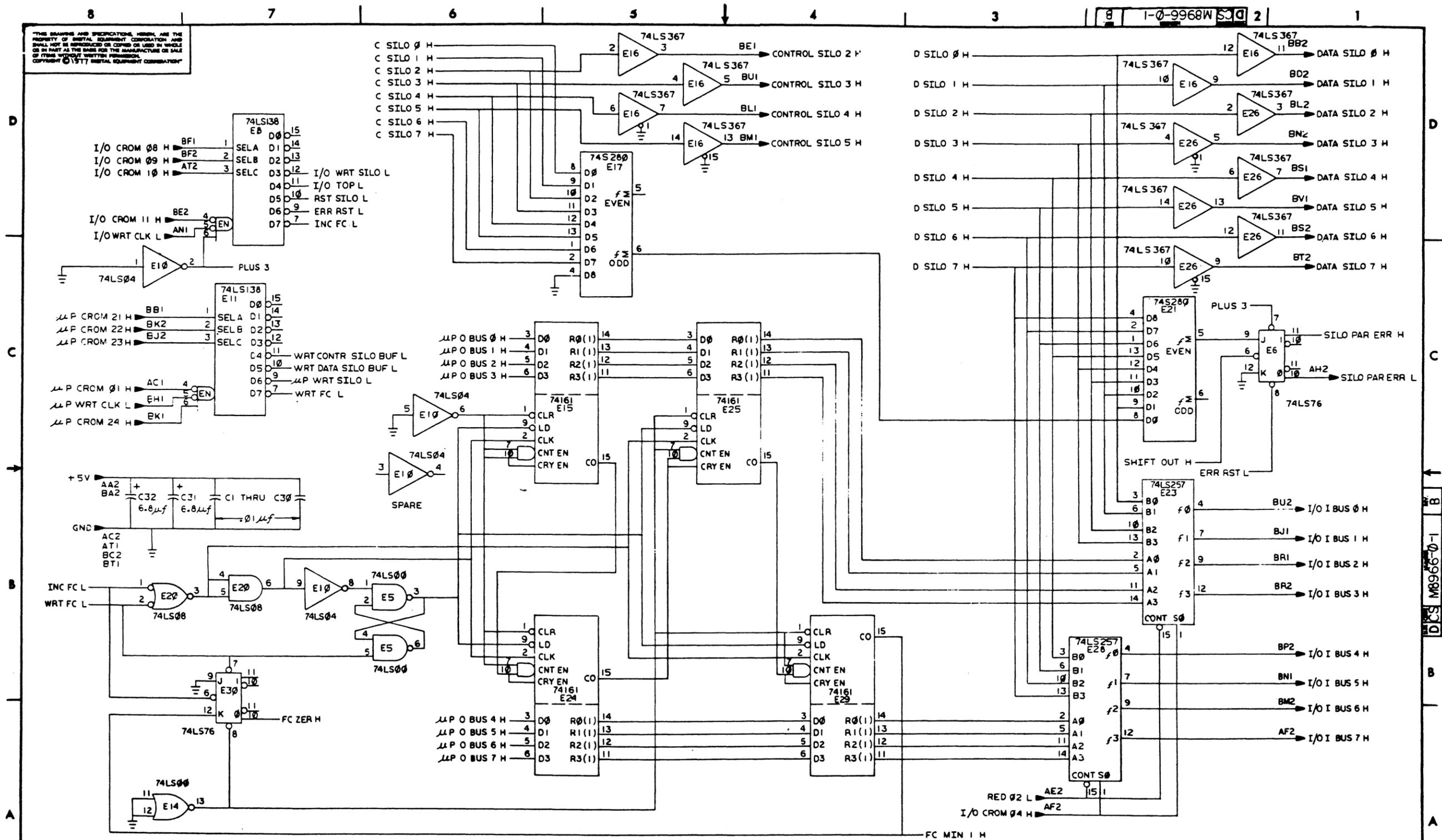


REV.	BY	DATE	DESCRIPTION
1	PAUL KINZELMAN	11/17/77	INITIAL DESIGN
2	B. KRASNICK	10/17/77	REVISED

DRN. <i>John...</i>	DATE <i>11/17/77</i>	FIRST USED ON	
CHK'D <i>J....</i>	DATE <i>11/17/77</i>	TITLE	I/O SECTION 2
ENGR. <i>A....</i>	DATE <i>11/17/77</i>	SCALE	NONE
PROL. ENGR. <i>A....</i>	DATE <i>11/17/77</i>	SIZE	D
PROD. <i>John...</i>	DATE <i>11/17/77</i>	CODE	CS
NEXT HIGHER ASSY.		NUMBER	M8966-0-1
B-DD-M8966-0		REV.	C
SHEET 1 OF 2		DIST.	

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I-0-9968W SQD 2



CHK	CHANGE NO.	REV.
	M8966 ML001	B
DR:		03-78
ENG:	KINZELMAN	

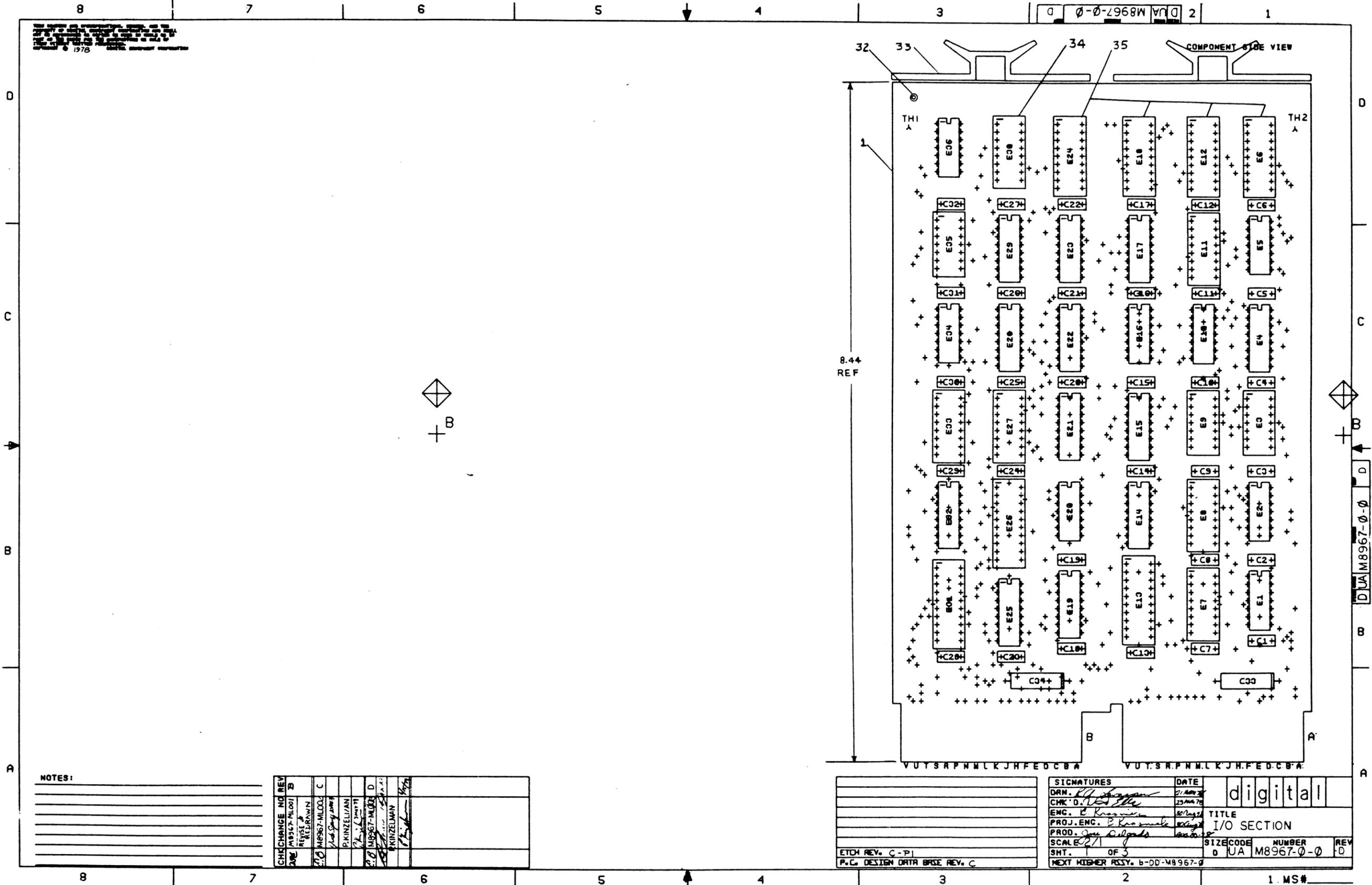
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I/O SECTION 2	NONE	2	OF	2				D CS M8966-0-1	C

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
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1	1		5012886-00	M8966	1	
2	2		1001610-00	.01 MFD 50V -20+80 Z5U AXIAL	30	C1-C30
3	3		1005306-00	6.8MFD 35V 10% S.TANT	2	C31,C32
4	4		1910650-00	74161 COUNTER,SYNCHR. UP	4	E15,E24,E25,E29
5	5		1912647-00	LS257 MUX 1 OF 2 (QUAD)	2	E23,E28
6	6		1912648-00	LS251 MUX 8 INPUT,TRI-STA	1	E9
7	7		1912801-00	LS02 NOR-GATE-QUAD 2IN	1	E14
8	8		1912825-00	LS76 FF-JK DUAL W/PRESET	2	E6,E30
9	9		1912847-00	LS157 MUX 1 OF 2(QUAD)	2	E2,E4
10	10		1912872-00	LS377 FF-D 8BIT W/ENABLE	2	E3,E13
11	11		1914768-01	FIFO, SLOW (67401)	4	E12,E18,E22,E27
12	12		1911573-00	74S280 PARITY GEN/CHKR,9BIT	3	E1,E17,E21
13	13		1912799-00	LS00 NAND-GATE-QUAD 2IN,P	1	E5
14	14		1912803-00	LS04 INVERTER GATE-HEX 1I	1	E10
15	15		1912805-00	LS08 AND GATE-QUAD 2IN,PO	1	E20
16	16		1912842-00	LS138 DECODER-THREE INPUT,	2	E8,E11
17	17		1912848-00	LS158 MUX 1 OF 2 (QUAD)	1	E7
18	18		1912811-00	LS21 AND GATE-DUAL 4IN,PO	1	E19
19	19		9006732-00	EYELET, ROLLED FLANGE, .121 OD X	4	
20	20		9008337-06	HANDLE, FLIP CHIP, MAGENTA	2	
21	21		1300447-00	4.7 K 1/4W 5% CC	2	R1,R2
22	22		1913471-00	LS367 DRIVER,BUS,HEX,TRI-	2	E16,E26

REVISION HISTORY		BASIC PART NO: M8966		DRN:	H.WEINBRENNER	DATE:	29-AUG-78	D I G I T A L			
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D:	W.CASSIDY	DATE:	29-AUG-78	TITLE	PARTS LIST		
---	INIT	A	SECTION VARIATION INDEX	DES.ENG:	B.KRASNICK	DATE:	29-AUG-78	I/O SECTION 2			
ER	ML001	B	[A] 00	RESP.ENG.:	B.KRASNICK	DATE:	29-AUG-78	DOCUMENT NUMBER			
BK	M8966-ML002	C	[B]	MFG.ENG.:	P.BARTON	DATE:	29-AUG-78	SIZE	CODE	NUMBER	REV
			[C]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		K	PL	M8966-0-DBP	C
			[D]	D-UA-M8966-0-0		TS04		FILE NAME:	Z0950C.PLS		EDIT #
			[E]							9	
			[F]	*THIS DRAWING AND SPECIFICATIONS HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT (C) 1979, DIGITAL EQUIPMENT CORPORATION *							

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DUA M8967-0-0 2



NOTES:

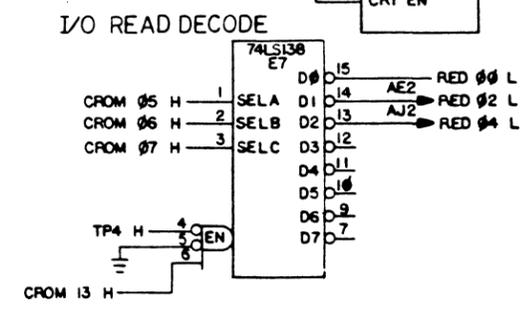
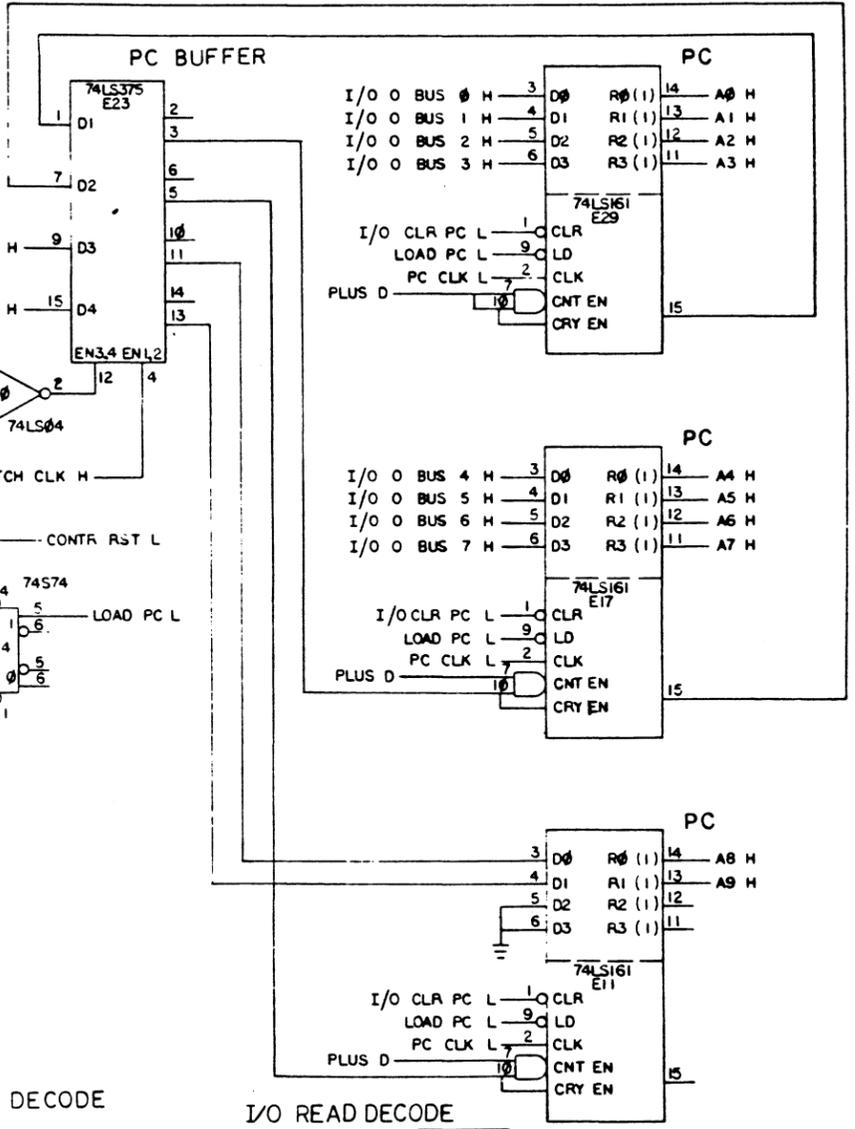
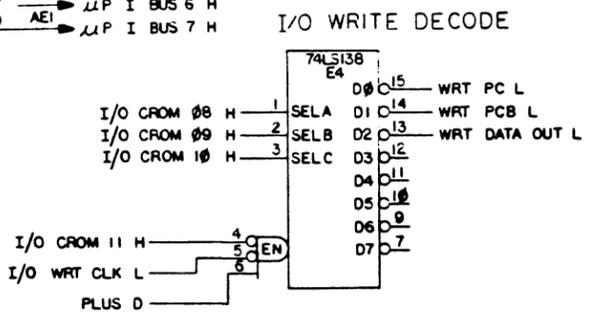
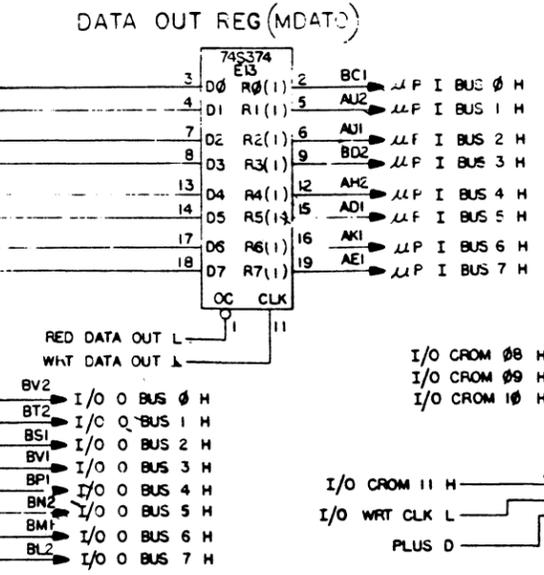
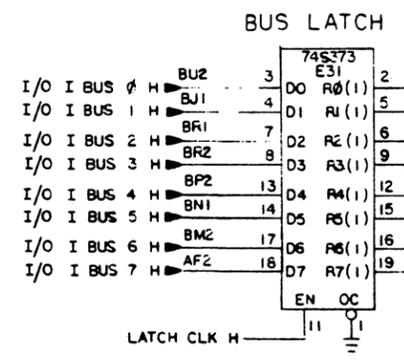
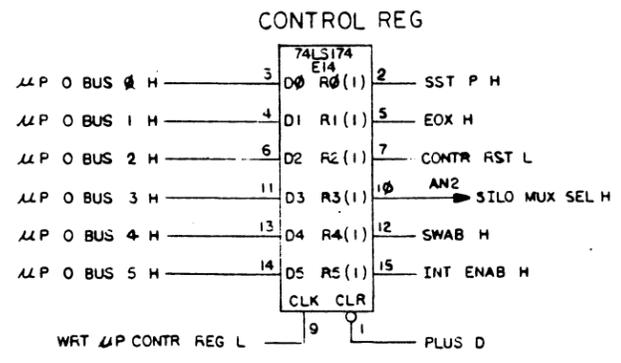
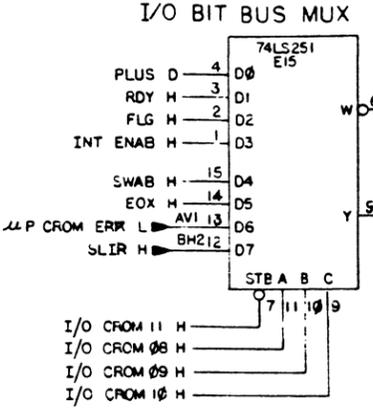
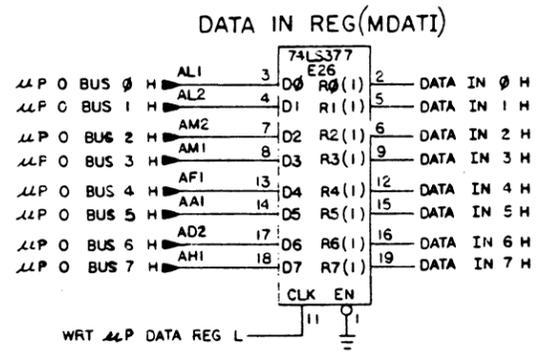
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2	C	11/10/76	P. Kinzelman	
3	D	11/10/76	P. Kinzelman	

ETCH REV. C-PI
P.C. DESIGN DATA BRSE REV. C

SIGNATURES	DATE	TITLE
DRN. <i>[Signature]</i>	21 Nov 76	digital
CHK. D. <i>[Signature]</i>	25 Nov 76	
ENC. <i>[Signature]</i>	10/24/76	
PROJ. ENC. <i>[Signature]</i>	10/24/76	I/O SECTION
PROD. <i>[Signature]</i>	10/24/76	
SCALE 2/1		SIZE CODE NUMBER
SHT. 1 OF 3		DUA M8967-0-0
NEXT HIGHER ASSY. 6-DD-M8967-0		REV D

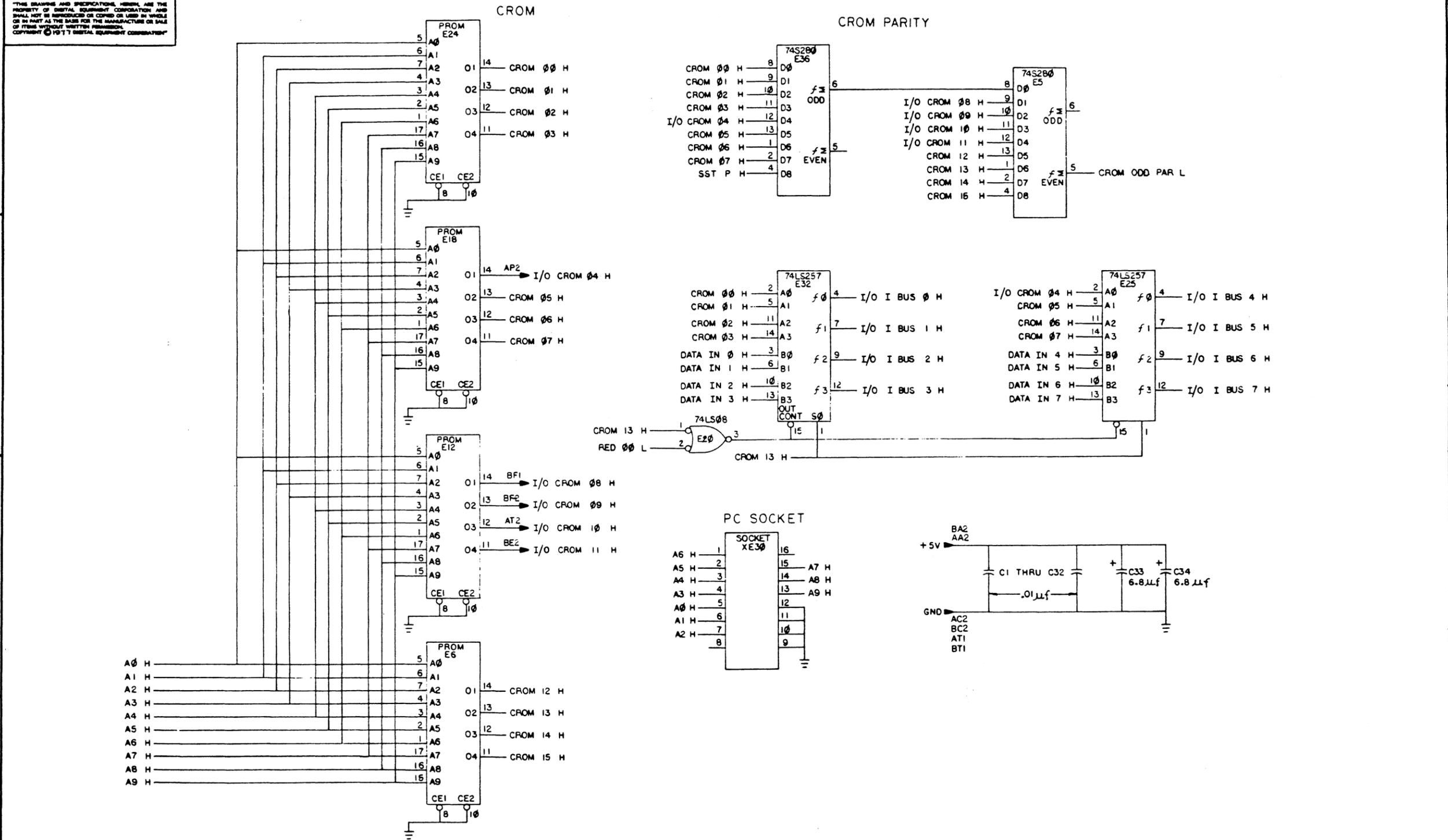
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1-0-2968W 2



REVISIONS		
CHK	CHANGE NO.	REV.

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REVISIONS		
CHK	CHANGE NO.	REV.

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
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1	1	D-CS-M8967-0-1		CIRCUIT SCHEMATIC	REF		
2	2	B-DD-M8967-0-0		DRAWING DIRECTORY	REF		
3	3	D-UA-M8967-0-0		UNIT ASSEMBLY	REF		
4	4	D-MD-5012887-0-0		DRILL & ETCH DRAWING	REF		
5	5		5012887-00	M8967	1		
6	6		1001610-00	.01 MFD 50V +80-20% 25U CER	32		C1-C32
7	7		1005306-00	6.8MFD 35V 10% S.TANT	2		C33, C34
8	8		1912801-00	LS02 NOR-GATE-QUAD 2IN	2		E3, E35
9	9		1912803-00	74LS04 INVERTER GATE, HEX	1		E10
10	10		1912805-00	LS08 AND GATE-QUAD 2IN, PO	1		E20
11	11		1912807-00	LS10 NAND GATE-TRIPLE 3IN	1		E16
12	12		1912813-00	LS27 NOR GATE-TRIPLE 3IN	1		E2
13	13		1912820-00	LS51 A-0-1 GATE 2-WIDE 2I	1		E9
14	14		1912824-00	LS74 FF-D DUAL, EDGE TRIGG	1		E1
15	15		1912842-00	LS138 DECODER-THREE INPUT,	3		E4, E7, E22
16	16		1912846-00	LS155 DECODER, 2 OF 4 (DUAL)	1		E19
17	17		1912849-00	LS161 COUNTER, SYNCHR, 4BIT	3		E11, E17, E29
18	18		1912697-00	LS174 FF-D HEX W/CLEAR	1		E14
19	19		1912648-00	LS251 MUX 8 INPUT, TRI-STA	1		E15
20	20		1912646-00	LS253 MUX 1 OF 4 (DUAL)	1		E27
21	21		1912647-00	LS257 MUX 1 OF 2 (QUAD)	2		E25, E32
22	22		1912864-00	LS279 LATCH, QUAD-S-R	2		E28, E33
23	23		1912871-00	LS375 LATCH	1		E23
24	24		1912872-00	LS377 FF-D 8BIT W/ENABLE	1		E26
25	25		1910950-00	74S74 FF-D DUAL (-45 VERSI	1		E34
26	26		1910545-00	74S112 FF-JK DUAL, EDGE TRIG	1		E21
27	27		1910552-00	74S194 SHIFT REG., 4BIT RIGH	1		E8
28	28		1911573-00	74S280 PARITY GEN/CHKR, 9BIT	2		E5, E36
29	29		1913670-00	74S373 LATCH 8BIT TRASP TR	1		E31
30	30		1913671-00	74S374 FF-D OCTAL TRISTATE	1		E13

REVISION HISTORY		BASIC PART NO: M8967		DRN:	WEINBRENNER	DATE:	22-AUG-78	D I G I T A L	
ENG:	ECO NUMBER	REV	SECTION A OF A	CHK'D:	W. CASSIDY	DATE:	22-AUG-78	TITLE	PARTS LIST
	00000	A	SECTION VARIATION INDEX					I/O SECTION 3	
CL	MLO01	B	[A] 00						
P.K.	M8967-MLO02	C	[B]	DES. ENG:	H. FINDEISEN	DATE:	22-AUG-78		
P.K.	M8967-MLO03	D	[C]						
			[D]	RESP. ENG.:	H. FINDEISEN	DATE:	22-AUG-78	DOCUMENT NUMBER	
			[E]					SIZE	CODE
			[F]					NUMBER	REV
			[H]	MFG. ENG.:	E. PINA	DATE:	22-AUG-78	K	PL
			[J]					M8967-0-DBP	D
			[K]	ASSEMBLY NUMBER:	D-UA-M8967-0-0	TOP DOCUMENT NUMBER:	TS04	FILE NAME:	EDIT #
			[L]					Z03220.PLS	8
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AUTOMATED BY PRTLST.2E(3)

P A R T S L I S T

SHEET A2 OF A2

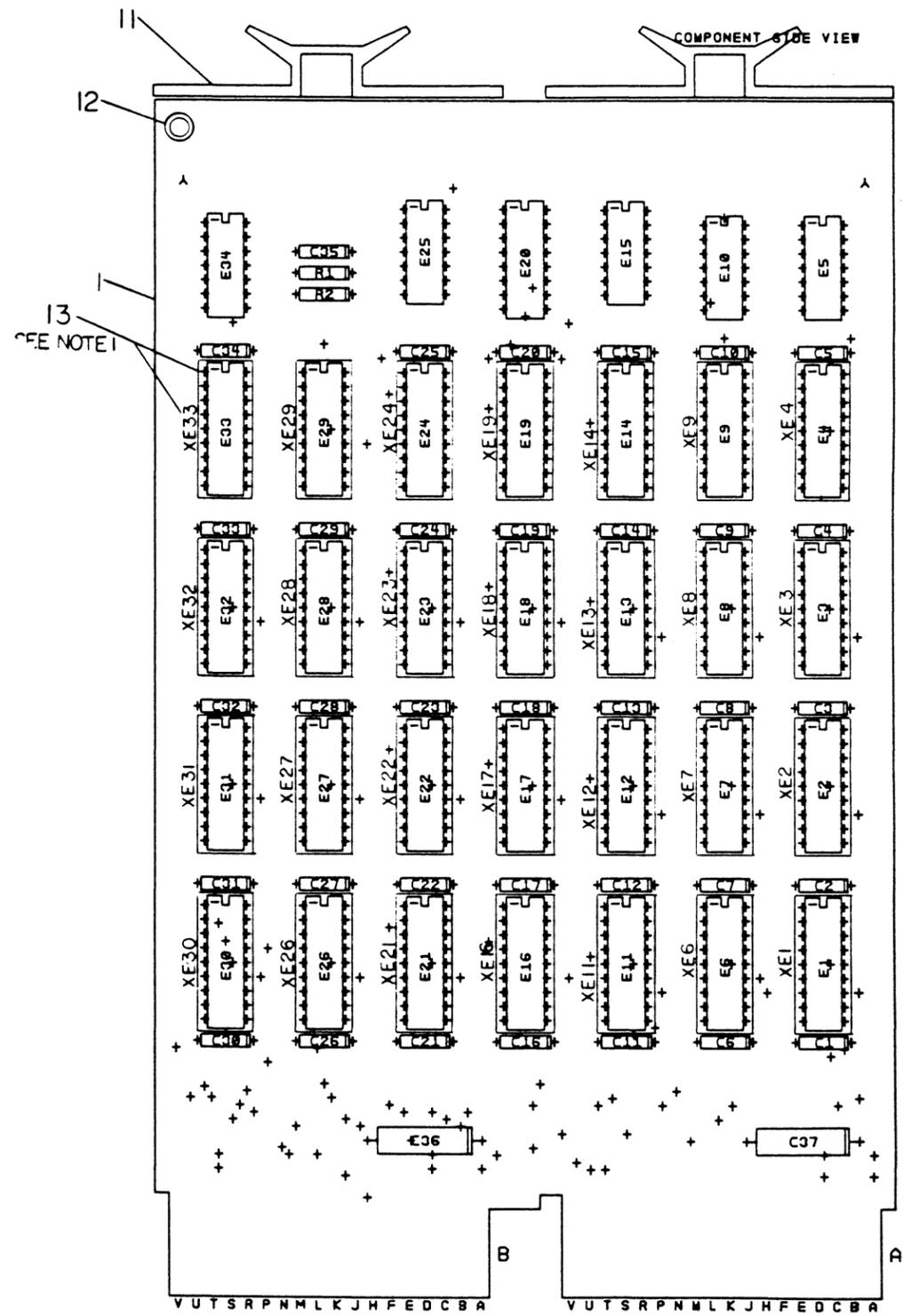
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32	32	9006732-00	EYELET, ROLLED FLANGE, .121 OD X	4	
33	33	9008337-06	HANDLE, FLIP CHIP, MAGENTA	2	
34	34	1211813-02	SOCKET 16PIN IC LOW PROFILE,	1	E30
35	35	1211666-00	SOCKET 18PIN IC LOW PROFILE	4	XE6, XE12, XE18, XE24
36	36	23476F1-00	F1-01	1	E24
37	37	23477F1-00	F1-01	1	E18
38	38	23478F1-00	F1-01	1	E12
39	39	23479F1-00	F1-01	1	E6

D I G I T A L										TITLE										I/O SECTION 3										SECTION A OF A										SIZE/ CODE										DOCUMENT NUMBER										REV									
																																								K PL										M8967-0-DBP										D									

H 0-0-8968M VU D 2

1978

COMPONENT SIDE VIEW



NOTES: 1. INSTALL ITEM 13, SOCKETS, BEFORE INSTALLING ITEM 15, ROMS.

CHG	NO	REV	DATE	BY	CHK'D
1	1	C	27 JUN 79	PAUL KINZELMAN	
2	1			PAUL KINZELMAN	
3	1			PAUL KINZELMAN	
4	1			PAUL KINZELMAN	
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ETCH REV. C
P.C. DESIGN DATA BRSE REV. CL & CM

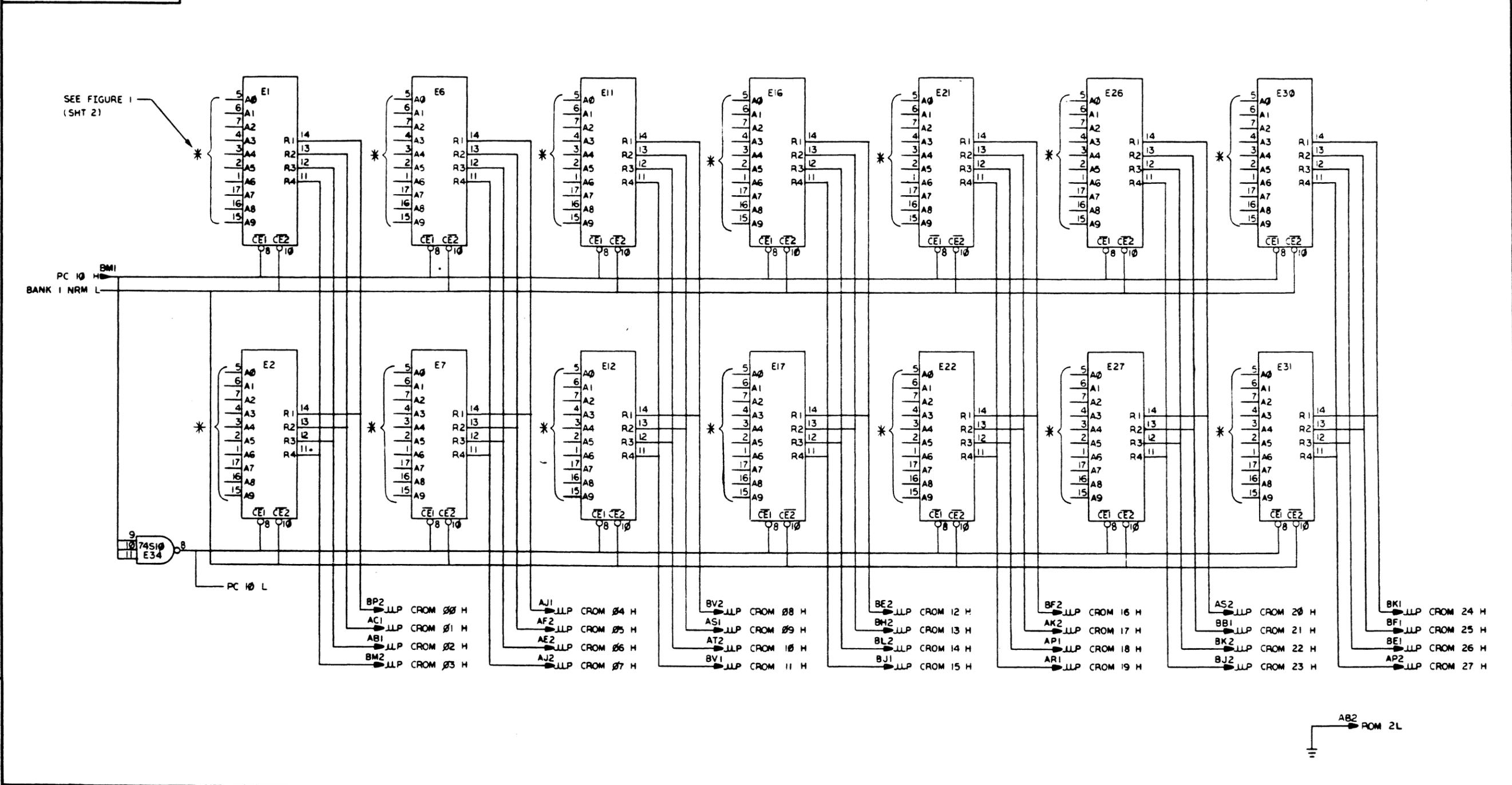
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CHK'D. <i>[Signature]</i>	7-12-78	EXTENSION BOARD
ENG. <i>[Signature]</i>	7-12-78	
PROJ. ENCL. <i>[Signature]</i>	7-12-78	
PROD. <i>[Signature]</i>	7-12-78	
SCALE 2/1		
SHT. 1 OF 5		
NEXT HIGH-ER ASSY. 8-DD-M8968-0		

digital

SIZE CODE NUMBER REV
D U A M8968-0-0 H

ML21 MS#160092C

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REV.	DATE	BY	CHK'D BY	DESCRIPTION
1	10/27/78	P. KINZELMAN		INITIAL DESIGN
2	11/15/78	P. KINZELMAN		REVISED FOR MANUFACTURE
3	12/15/78	P. KINZELMAN		REVISED FOR MANUFACTURE
4	1/15/79	P. KINZELMAN		REVISED FOR MANUFACTURE
5	2/15/79	P. KINZELMAN		REVISED FOR MANUFACTURE
6	3/15/79	P. KINZELMAN		REVISED FOR MANUFACTURE
7	4/15/79	P. KINZELMAN		REVISED FOR MANUFACTURE
8	5/15/79	P. KINZELMAN		REVISED FOR MANUFACTURE
9	6/15/79	P. KINZELMAN		REVISED FOR MANUFACTURE
10	7/15/79	P. KINZELMAN		REVISED FOR MANUFACTURE
11	8/15/79	P. KINZELMAN		REVISED FOR MANUFACTURE
12	9/15/79	P. KINZELMAN		REVISED FOR MANUFACTURE
13	10/15/79	P. KINZELMAN		REVISED FOR MANUFACTURE
14	11/15/79	P. KINZELMAN		REVISED FOR MANUFACTURE
15	12/15/79	P. KINZELMAN		REVISED FOR MANUFACTURE
16	1/15/80	P. KINZELMAN		REVISED FOR MANUFACTURE
17	2/15/80	P. KINZELMAN		REVISED FOR MANUFACTURE
18	3/15/80	P. KINZELMAN		REVISED FOR MANUFACTURE
19	4/15/80	P. KINZELMAN		REVISED FOR MANUFACTURE
20	5/15/80	P. KINZELMAN		REVISED FOR MANUFACTURE
21	6/15/80	P. KINZELMAN		REVISED FOR MANUFACTURE
22	7/15/80	P. KINZELMAN		REVISED FOR MANUFACTURE
23	8/15/80	P. KINZELMAN		REVISED FOR MANUFACTURE
24	9/15/80	P. KINZELMAN		REVISED FOR MANUFACTURE
25	10/15/80	P. KINZELMAN		REVISED FOR MANUFACTURE
26	11/15/80	P. KINZELMAN		REVISED FOR MANUFACTURE
27	12/15/80	P. KINZELMAN		REVISED FOR MANUFACTURE
28	1/15/81	P. KINZELMAN		REVISED FOR MANUFACTURE
29	2/15/81	P. KINZELMAN		REVISED FOR MANUFACTURE
30	3/15/81	P. KINZELMAN		REVISED FOR MANUFACTURE
31	4/15/81	P. KINZELMAN		REVISED FOR MANUFACTURE
32	5/15/81	P. KINZELMAN		REVISED FOR MANUFACTURE
33	6/15/81	P. KINZELMAN		REVISED FOR MANUFACTURE
34	7/15/81	P. KINZELMAN		REVISED FOR MANUFACTURE
35	8/15/81	P. KINZELMAN		REVISED FOR MANUFACTURE
36	9/15/81	P. KINZELMAN		REVISED FOR MANUFACTURE
37	10/15/81	P. KINZELMAN		REVISED FOR MANUFACTURE
38	11/15/81	P. KINZELMAN		REVISED FOR MANUFACTURE
39	12/15/81	P. KINZELMAN		REVISED FOR MANUFACTURE
40	1/15/82	P. KINZELMAN		REVISED FOR MANUFACTURE
41	2/15/82	P. KINZELMAN		REVISED FOR MANUFACTURE
42	3/15/82	P. KINZELMAN		REVISED FOR MANUFACTURE
43	4/15/82	P. KINZELMAN		REVISED FOR MANUFACTURE
44	5/15/82	P. KINZELMAN		REVISED FOR MANUFACTURE
45	6/15/82	P. KINZELMAN		REVISED FOR MANUFACTURE
46	7/15/82	P. KINZELMAN		REVISED FOR MANUFACTURE
47	8/15/82	P. KINZELMAN		REVISED FOR MANUFACTURE
48	9/15/82	P. KINZELMAN		REVISED FOR MANUFACTURE
49	10/15/82	P. KINZELMAN		REVISED FOR MANUFACTURE
50	11/15/82	P. KINZELMAN		REVISED FOR MANUFACTURE
51	12/15/82	P. KINZELMAN		REVISED FOR MANUFACTURE
52	1/15/83	P. KINZELMAN		REVISED FOR MANUFACTURE
53	2/15/83	P. KINZELMAN		REVISED FOR MANUFACTURE
54	3/15/83	P. KINZELMAN		REVISED FOR MANUFACTURE
55	4/15/83	P. KINZELMAN		REVISED FOR MANUFACTURE
56	5/15/83	P. KINZELMAN		REVISED FOR MANUFACTURE
57	6/15/83	P. KINZELMAN		REVISED FOR MANUFACTURE
58	7/15/83	P. KINZELMAN		REVISED FOR MANUFACTURE
59	8/15/83	P. KINZELMAN		REVISED FOR MANUFACTURE
60	9/15/83	P. KINZELMAN		REVISED FOR MANUFACTURE
61	10/15/83	P. KINZELMAN		REVISED FOR MANUFACTURE
62	11/15/83	P. KINZELMAN		REVISED FOR MANUFACTURE
63	12/15/83	P. KINZELMAN		REVISED FOR MANUFACTURE
64	1/15/84	P. KINZELMAN		REVISED FOR MANUFACTURE
65	2/15/84	P. KINZELMAN		REVISED FOR MANUFACTURE
66	3/15/84	P. KINZELMAN		REVISED FOR MANUFACTURE
67	4/15/84	P. KINZELMAN		REVISED FOR MANUFACTURE
68	5/15/84	P. KINZELMAN		REVISED FOR MANUFACTURE
69	6/15/84	P. KINZELMAN		REVISED FOR MANUFACTURE
70	7/15/84	P. KINZELMAN		REVISED FOR MANUFACTURE
71	8/15/84	P. KINZELMAN		REVISED FOR MANUFACTURE
72	9/15/84	P. KINZELMAN		REVISED FOR MANUFACTURE
73	10/15/84	P. KINZELMAN		REVISED FOR MANUFACTURE
74	11/15/84	P. KINZELMAN		REVISED FOR MANUFACTURE
75	12/15/84	P. KINZELMAN		REVISED FOR MANUFACTURE
76	1/15/85	P. KINZELMAN		REVISED FOR MANUFACTURE
77	2/15/85	P. KINZELMAN		REVISED FOR MANUFACTURE
78	3/15/85	P. KINZELMAN		REVISED FOR MANUFACTURE
79	4/15/85	P. KINZELMAN		REVISED FOR MANUFACTURE
80	5/15/85	P. KINZELMAN		REVISED FOR MANUFACTURE
81	6/15/85	P. KINZELMAN		REVISED FOR MANUFACTURE
82	7/15/85	P. KINZELMAN		REVISED FOR MANUFACTURE
83	8/15/85	P. KINZELMAN		REVISED FOR MANUFACTURE
84	9/15/85	P. KINZELMAN		REVISED FOR MANUFACTURE
85	10/15/85	P. KINZELMAN		REVISED FOR MANUFACTURE
86	11/15/85	P. KINZELMAN		REVISED FOR MANUFACTURE
87	12/15/85	P. KINZELMAN		REVISED FOR MANUFACTURE
88	1/15/86	P. KINZELMAN		REVISED FOR MANUFACTURE
89	2/15/86	P. KINZELMAN		REVISED FOR MANUFACTURE
90	3/15/86	P. KINZELMAN		REVISED FOR MANUFACTURE
91	4/15/86	P. KINZELMAN		REVISED FOR MANUFACTURE
92	5/15/86	P. KINZELMAN		REVISED FOR MANUFACTURE
93	6/15/86	P. KINZELMAN		REVISED FOR MANUFACTURE
94	7/15/86	P. KINZELMAN		REVISED FOR MANUFACTURE
95	8/15/86	P. KINZELMAN		REVISED FOR MANUFACTURE
96	9/15/86	P. KINZELMAN		REVISED FOR MANUFACTURE
97	10/15/86	P. KINZELMAN		REVISED FOR MANUFACTURE
98	11/15/86	P. KINZELMAN		REVISED FOR MANUFACTURE
99	12/15/86	P. KINZELMAN		REVISED FOR MANUFACTURE
100	1/15/87	P. KINZELMAN		REVISED FOR MANUFACTURE

DATE	2/20/79	FIRST USED ON	TS04
CHK'D BY		TITLE	ROM EXTENSION BOARD
ENG. BY		SCALE	D CS
PROD. BY		NUMBER	M8968-0-1
NEXT HIGHER ASSY.		REV.	H
B-D0-M8968-0		SHEET	1 OF 2
ML2			

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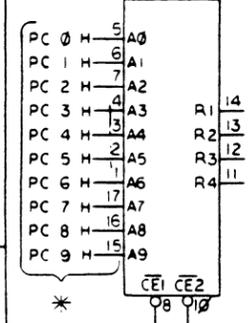
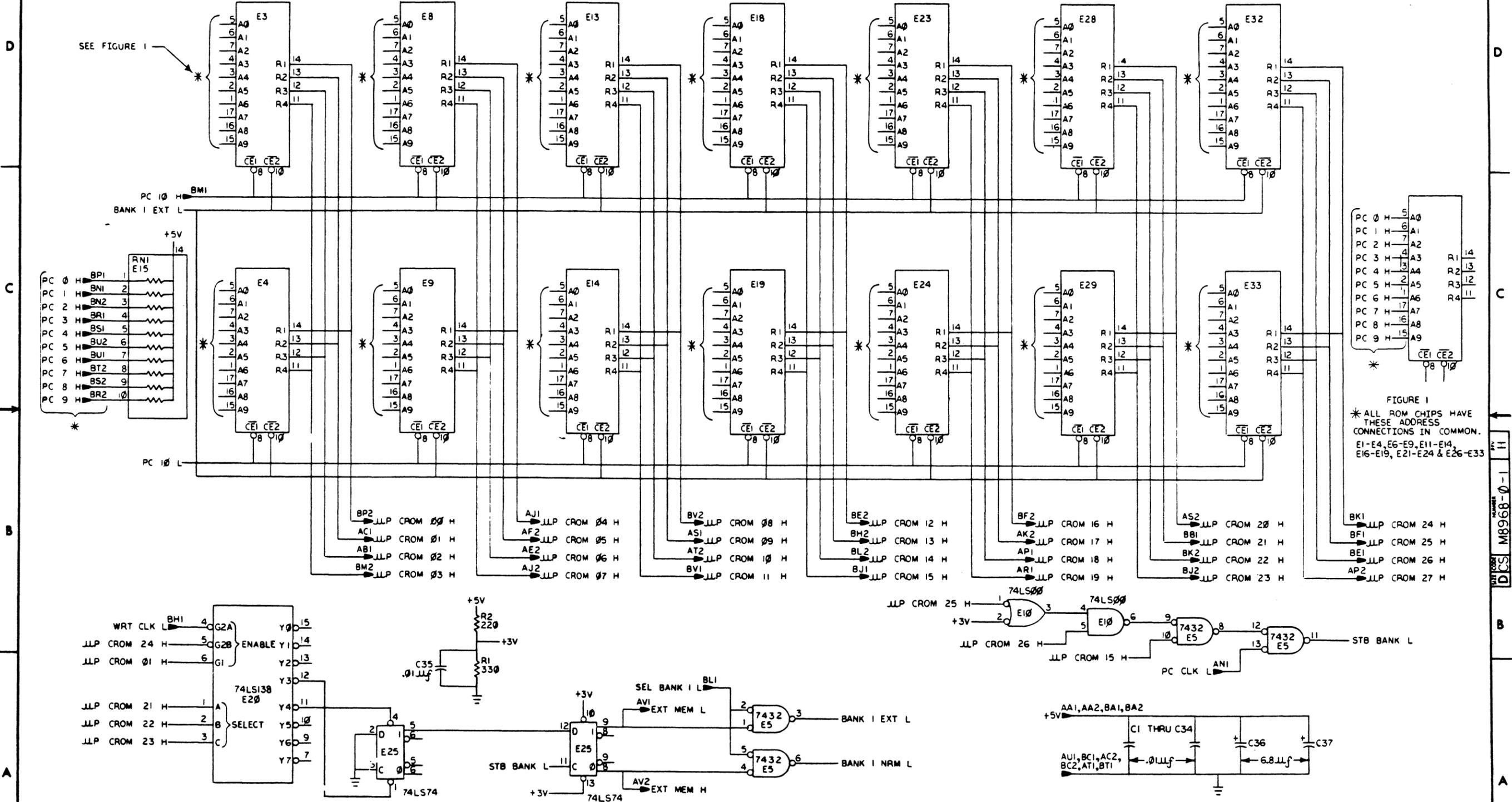


FIGURE 1
* ALL ROM CHIPS HAVE THESE ADDRESS CONNECTIONS IN COMMON. E1-E4, E6-E9, E11-E14, E16-E19, E21-E24 & E26-E33

REVISIONS		
CHK	CHANGE NO.	REV.

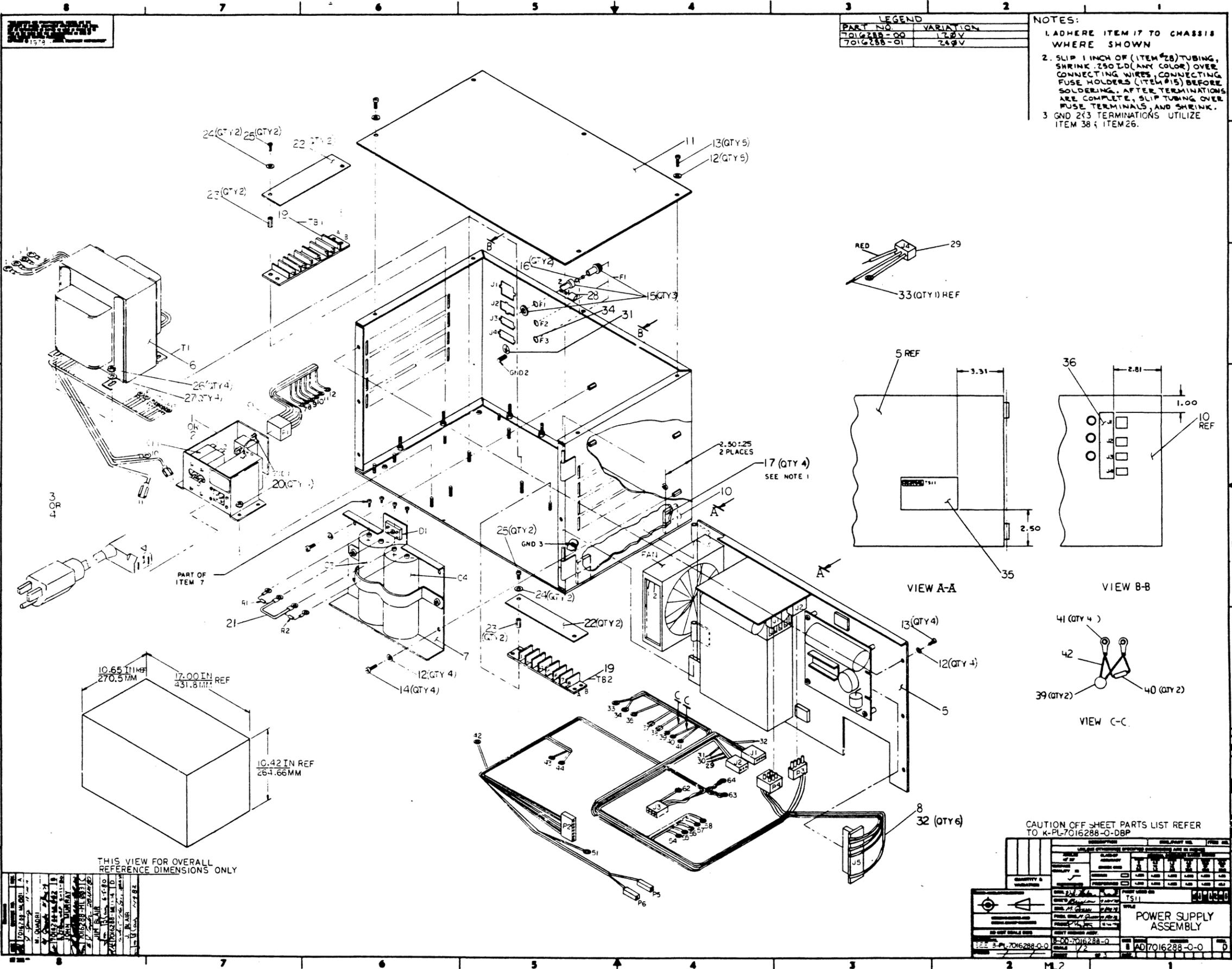
LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
					00	
1	1		5013277-00	M8968	1	
2	2		1001610-00	.01 MFD 50V +80-20% Z5U CER	35	C1-C35
3	3		1005306-00	6.8MFD 35V 10% S.TANT	2	C36,C37
4	4		1300271-00	220.0 .25 W 5.0 % CC	1	R2
5	5		1300295-00	330.0 .25 W 5.0 % CC	1	R1
6	6		1300005-01	R NETWORK 13-1K 5.0 % 14PIN	1	E15
7	7		1911521-00	7432 OR GATE-QUAD 2IN, PO	1	E5
8	8		1912824-00	LS74 FF-D DUAL,EDGE TRIGG	1	E25
9	9		1912799-00	LS00 NAND-GATE-QUAD 2IN,P	1	E10
10	10		1912842-00	LS138 DECODER-THREE INPUT,	1	E20
11	11		9008337-06	HANDLE, FLIP CHIP, MAGENTA	2	
12	12		9006732-00	EYELET,ROLLED 0.1210DX0.219	4	
13	13	SEE NOTE	1211666-00	SKT,IC 18PIN DIP GOLD SOLD	28	XE1-XE4,XE6-XE9,XE11-XE14, CONT XE16-XE19,XE21-XE24,XE26-XE33 E34
14	14		1910536-00	74S10 NAND GATE-TRIPLE 3IN	1	
15	15		23403F1-00	*** THIS ITEM IS NOT USED ***	-	
16	16		23404F1-00	*** THIS ITEM IS NOT USED ***	-	
17	17		23405F1-00	F1-01	1	E11
18	18		23406F1-00	F1-01	1	E16
19	19		23407F1-00	F1-01	1	E21
20	20		23408F1-00	F1-01	1	E26
21	21		23409F1-00	*** THIS ITEM IS NOT USED ***	-	
22	22		23813F1-00	*** THIS ITEM IS NOT USED ***	-	
23	23		23658F1-00	F1-01	1	E7
24	24		23659F1-00	F1-01	1	E12
25	25		23660F1-00	F1-01	1	E17
26	26		23661F1-00	F1-01	1	E22
27	27		23662F1-00	F1-01	1	E27
28	28		23814F1-00	*** THIS ITEM IS NOT USED ***	-	
29	29		23417F1-00	*** THIS ITEM IS NOT USED ***	-	

REVISION HISTORY			BASIC PART NO: M8968		DRN: R.WALDIE		DATE: 01-MAR-78		D I G I T A L	
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D:	R.ODOM	DATE:	01-MAR-78	TITLE	PARTS LIST	
---	INIT	B	SECTION VARIATION INDEX	CHK'D:	R.ODOM	DATE:	01-MAR-78	ROM EXTENSION BD		
P.K	M8968-ML001	C	[A] 00	RESP.ENG.:	R.ODOM	DATE:	01-MAR-78	DOCUMENT NUMBER		
PK	M8968-ML002	D	[B]					SIZE CODE NUMBER	REV	
PK	M8968-ML003	E	[C]	MFG.ENG.:	F.BARTON	DATE:	01-MAR-78	K PL M8968-0-DBP	H	
PK	M8968-ML004	F	[D]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:	EDIT #	
RN	M8968-ML005	H	[E]	D-UA-M8968-0-0		TS04		Z0597H.PLS	23	
			[F]							
			[G]							
			[H]							
			[I]							
			[J]							
			[K]							
			[L]							
			[M]							
			[N]							

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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
30	30		23611F1-00	*** THIS ITEM IS NOT USED ***	-	
31	31		23419F1-00	*** THIS ITEM IS NOT USED ***	-	
32	32		23420F1-00	*** THIS ITEM IS NOT USED ***	-	
33	33		23421F1-00	*** THIS ITEM IS NOT USED ***	-	
34	34		23422F1-00	*** THIS ITEM IS NOT USED ***	-	
35	35		23612F1-00	*** THIS ITEM IS NOT USED ***	-	
36	36		23424F1-00	*** THIS ITEM IS NOT USED ***	-	
37	37		23613F1-00	*** THIS ITEM IS NOT USED ***	-	
38	38		23426F1-00	*** THIS ITEM IS NOT USED ***	-	
39	39		23427F1-00	*** THIS ITEM IS NOT USED ***	-	
40	40		23428F1-00	*** THIS ITEM IS NOT USED ***	-	
41	41		23429F1-00	*** THIS ITEM IS NOT USED ***	-	
42	42		23614F1-00	*** THIS ITEM IS NOT USED ***	-	
43	43		23989F1-00	F1-01	1	E1
44	44		23990F1-00	F1-01	1	E6
45	45		23991F1-00	F1-01	1	E30
46	46		23992F1-00	F1-01	1	E2
47	47		23993F1-00	F1-01	1	E31
48	48		23994F1-00	F1-01	1	E3
49	49		23995F1-00	F1-01	1	E8
50	50		23996F1-00	F1-01	1	E13
51	51		23997F1-00	F1-01	1	E18
52	52		23998F1-00	F1-01	1	E23
53	53		23999F1-00	F1-01	1	E28
54	54		23E01F1-00	F1-01	1	E32
55	55		23E02F1-00	F1-01	1	E4
56	56		23E03F1-00	F1-01	1	E9
57	57		23E04F1-00	F1-01	1	E14
58	58		23E05F1-00	F1-01	1	E19
59	59		23E06F1-00	F1-01	1	E24
60	60		23E07F1-00	F1-01	1	E29
61	61		23E08F1-00	F1-01	1	E33

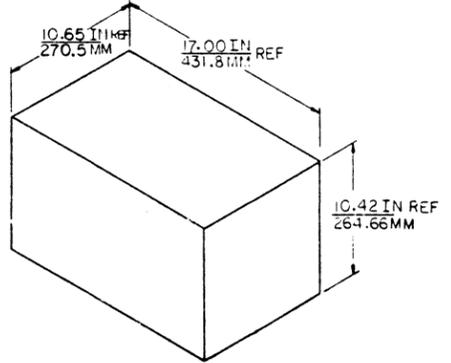
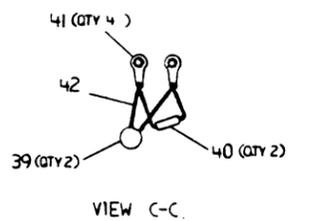
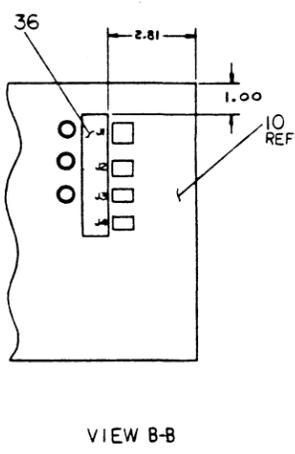
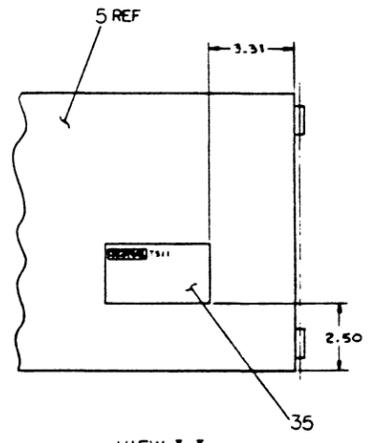
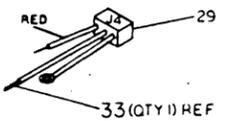
D I G I T A L				TITLE	SECTION A OF A		SIZE	CODE	DOCUMENT NUMBER	REV
				ROM EXTENSION BD			K	PL	M8968-0-DBP	H



LEGEND

PART NO.	VARIATION
7016288-00	17.0V
7016288-01	24.0V

- NOTES:
1. ADHERE ITEM 17 TO CHASSIS WHERE SHOWN
 2. SLIP 1 INCH OF (ITEM #28) TUBING, SHRINK .250 I.D. (ANY COLOR) OVER CONNECTING WIRES, CONNECT FUSE HOLDERS (ITEM #15) BEFORE SOLDERING. AFTER TERMINATIONS ARE COMPLETE, SLIP TUBING OVER FUSE TERMINALS, AND SHRINK.
 3. GND 2/3 TERMINALS UTILIZE ITEM 38 & ITEM 26.



THIS VIEW FOR OVERALL REFERENCE DIMENSIONS ONLY

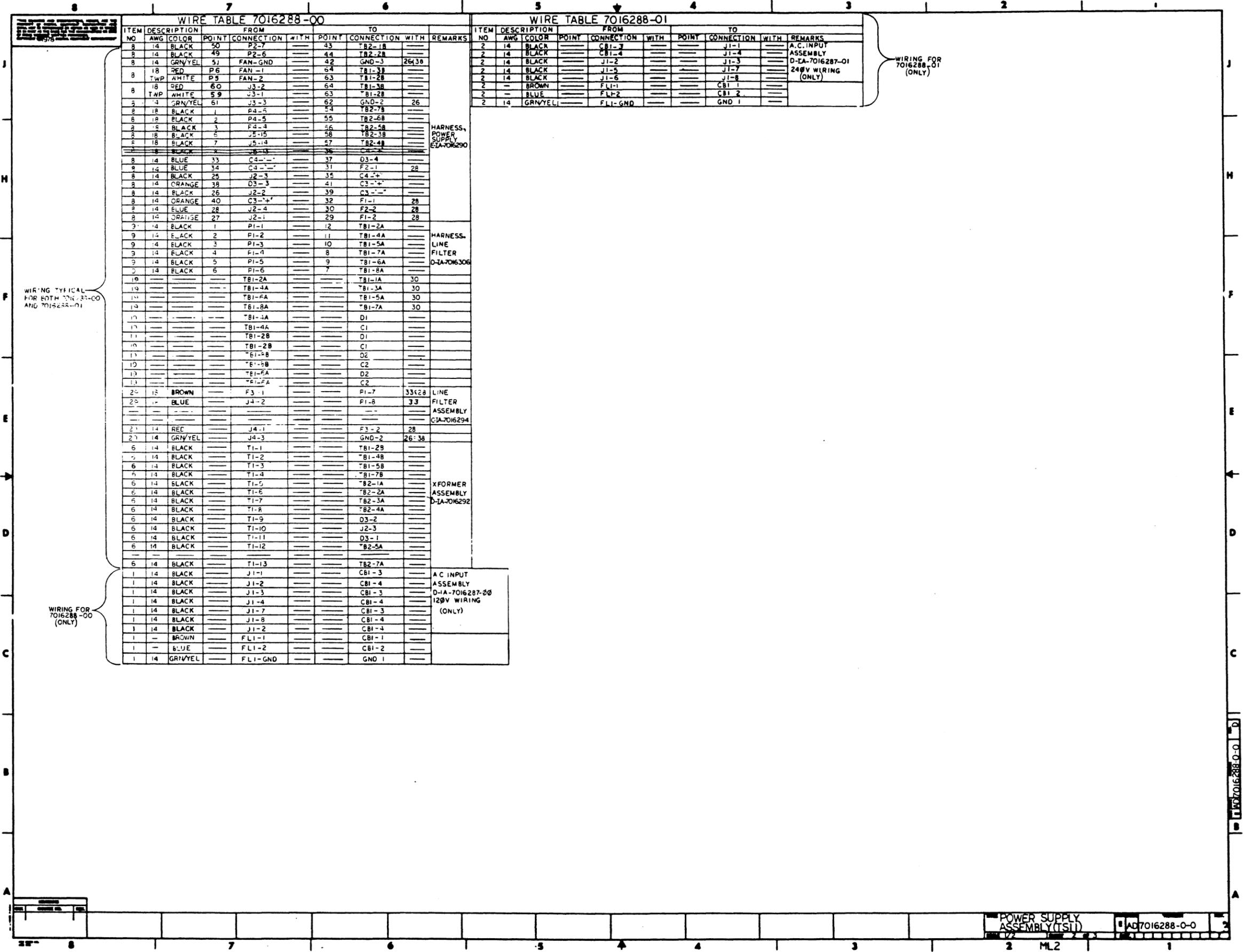
REV.	DATE	BY	CHKD.	DESCRIPTION
1	10/17/78	M. O'NEILL		ISSUE FOR PRODUCTION
2	11/15/78	M. O'NEILL		REVISED TO ADD PART 32
3	12/15/78	M. O'NEILL		REVISED TO ADD PART 33
4	01/15/79	M. O'NEILL		REVISED TO ADD PART 34
5	02/15/79	M. O'NEILL		REVISED TO ADD PART 35
6	03/15/79	M. O'NEILL		REVISED TO ADD PART 36
7	04/15/79	M. O'NEILL		REVISED TO ADD PART 37
8	05/15/79	M. O'NEILL		REVISED TO ADD PART 38
9	06/15/79	M. O'NEILL		REVISED TO ADD PART 39
10	07/15/79	M. O'NEILL		REVISED TO ADD PART 40
11	08/15/79	M. O'NEILL		REVISED TO ADD PART 41
12	09/15/79	M. O'NEILL		REVISED TO ADD PART 42

CAUTION OFF SHEET PARTS LIST REFER TO K-PL-7016288-0-DBP

ITEM NO.	DESCRIPTION	QTY	REF
1	CHASSIS	1	
2	COVER	1	
3	TERMINAL BLOCK	1	
4	TERMINAL BLOCK	1	
5	TERMINAL BLOCK	1	
6	TERMINAL BLOCK	1	
7	TERMINAL BLOCK	1	
8	TERMINAL BLOCK	6	
9	TERMINAL BLOCK	1	
10	TERMINAL BLOCK	1	
11	TERMINAL BLOCK	1	
12	TERMINAL BLOCK	4	
13	TERMINAL BLOCK	4	
14	TERMINAL BLOCK	4	
15	TERMINAL BLOCK	3	
16	TERMINAL BLOCK	2	
17	TERMINAL BLOCK	4	
18	TERMINAL BLOCK	2	
19	TERMINAL BLOCK	2	
20	TERMINAL BLOCK	4	
21	TERMINAL BLOCK	2	
22	TERMINAL BLOCK	2	
23	TERMINAL BLOCK	2	
24	TERMINAL BLOCK	2	
25	TERMINAL BLOCK	2	
26	TERMINAL BLOCK	4	
27	TERMINAL BLOCK	4	
28	TERMINAL BLOCK	1	
29	TERMINAL BLOCK	1	
30	TERMINAL BLOCK	1	
31	TERMINAL BLOCK	1	
32	TERMINAL BLOCK	6	
33	TERMINAL BLOCK	1	
34	TERMINAL BLOCK	1	
35	TERMINAL BLOCK	1	
36	TERMINAL BLOCK	1	
37	TERMINAL BLOCK	1	
38	TERMINAL BLOCK	1	
39	TERMINAL BLOCK	2	
40	TERMINAL BLOCK	2	
41	TERMINAL BLOCK	4	
42	TERMINAL BLOCK	1	

POWER SUPPLY ASSEMBLY

7016288-0-0



WIRE TABLE 7016288-00

WIRE TABLE 7016288-01

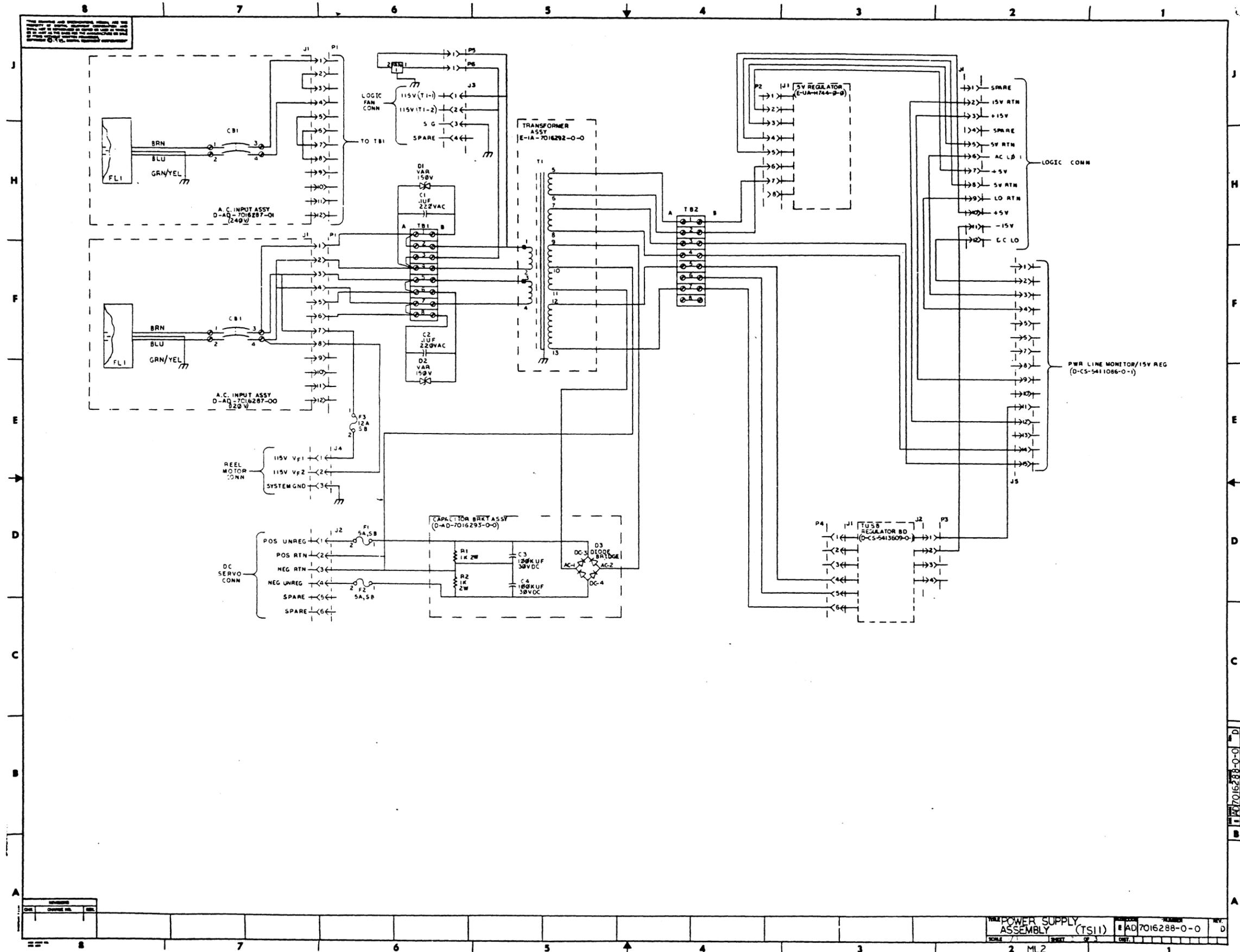
ITEM NO	DESCRIPTION	FROM POINT	CONNECTION	WITH	POINT	CONNECTION	WITH	REMARKS
8	14	BLACK	50	P2-7	33	TB2-1B		
8	14	BLACK	49	P2-6	44	TB2-2B		
8	14	GRN/YEL	51	FAN-GND	42	GND-3	26/38	
8	18	RED	P6	FAN-1	64	TB1-3B		
8	TWP	WHITE	P5	FAN-2	63	TB1-2B		
8	18	RED	60	J3-2	64	TB1-3B		
8	TWP	WHITE	59	J3-1	63	TB1-2B		
2	14	GRN/YEL	61	J3-3	62	GND-2	26	
2	18	BLACK	1	P4-5	54	TB2-7B		
2	18	BLACK	2	P4-5	55	TB2-6B		
2	18	BLACK	3	F4-4	56	TB2-5B		
2	18	BLACK	6	J5-15	58	TB2-3B		
2	18	BLACK	7	J5-14	57	TB2-4B		
2	18	BLACK	8	J6-13	36	C4-2		
8	14	BLUE	33	C4-1	37	D3-4		
8	14	BLUE	34	C4-1	31	F2-1	28	
8	14	BLACK	25	J2-3	35	C4-2		
8	14	ORANGE	38	D3-3	41	C3-2		
8	14	BLACK	26	J2-2	39	C3-1		
8	14	ORANGE	40	C3-2	32	F1-1	28	
2	14	BLUE	28	J2-4	30	F2-2	28	
8	14	ORANGE	27	J2-1	29	F1-2	28	
9	14	BLACK	1	P1-1	12	TB1-2A		
9	14	BLACK	2	P1-2	11	TB1-4A		
9	14	BLACK	3	P1-3	10	TB1-5A		
9	14	BLACK	4	P1-4	8	TB1-7A		
9	14	BLACK	5	P1-5	9	TB1-6A		
9	14	BLACK	6	P1-6	7	TB1-8A		
18				TB1-2A		TB1-1A	30	
19				TB1-4A		TB1-3A	30	
19				TB1-6A		TB1-5A	30	
19				TB1-8A		TB1-7A	30	
17				TB1-1A		D1		
17				TB1-4A		C1		
17				TB1-2B		D1		
10				TB1-2B		C1		
17				TB1-4B		D2		
10				TB1-5B		C2		
10				TB1-6A		D2		
10				TB1-7A		C2		
20	18	BROWN		F3-1		F1-7	33/28	LINE FILTER ASSEMBLY CIA-7016294
20	18	BLUE		J4-2		F1-8	33	
21	14	RED		J4-1		F3-2	28	
27	14	GRN/YEL		J4-3		GND-2	26/38	
6	14	BLACK		T1-1		TB1-2B		
6	14	BLACK		T1-2		TB1-4B		
6	14	BLACK		T1-3		TB1-5B		
6	14	BLACK		T1-4		TB1-7B		
6	14	BLACK		T1-5		TB2-1A		
6	14	BLACK		T1-6		TB2-2A		
6	14	BLACK		T1-7		TB2-3A		
6	14	BLACK		T1-8		TB2-4A		
6	14	BLACK		T1-9		D3-2		
6	14	BLACK		T1-10		J2-3		
6	14	BLACK		T1-11		D3-1		
6	14	BLACK		T1-12		TB2-5A		
6	14	BLACK		T1-13		TB2-7A		
1	14	BLACK		J1-1		CBI-3		A.C. INPUT ASSEMBLY D-IA-7016287-00 120V WIRING (ONLY)
1	14	BLACK		J1-2		CBI-4		
1	14	BLACK		J1-3		CBI-3		
1	14	BLACK		J1-4		CBI-4		
1	14	BLACK		J1-7		CBI-3		
1	14	BLACK		J1-8		CBI-4		
1	14	BLACK		J1-2		CBI-3		
1	14	BROWN		FL1-1		CBI-1		
1	14	BLUE		FL1-2		CBI-2		
1	14	GRN/YEL		FL1-GND		GND 1		

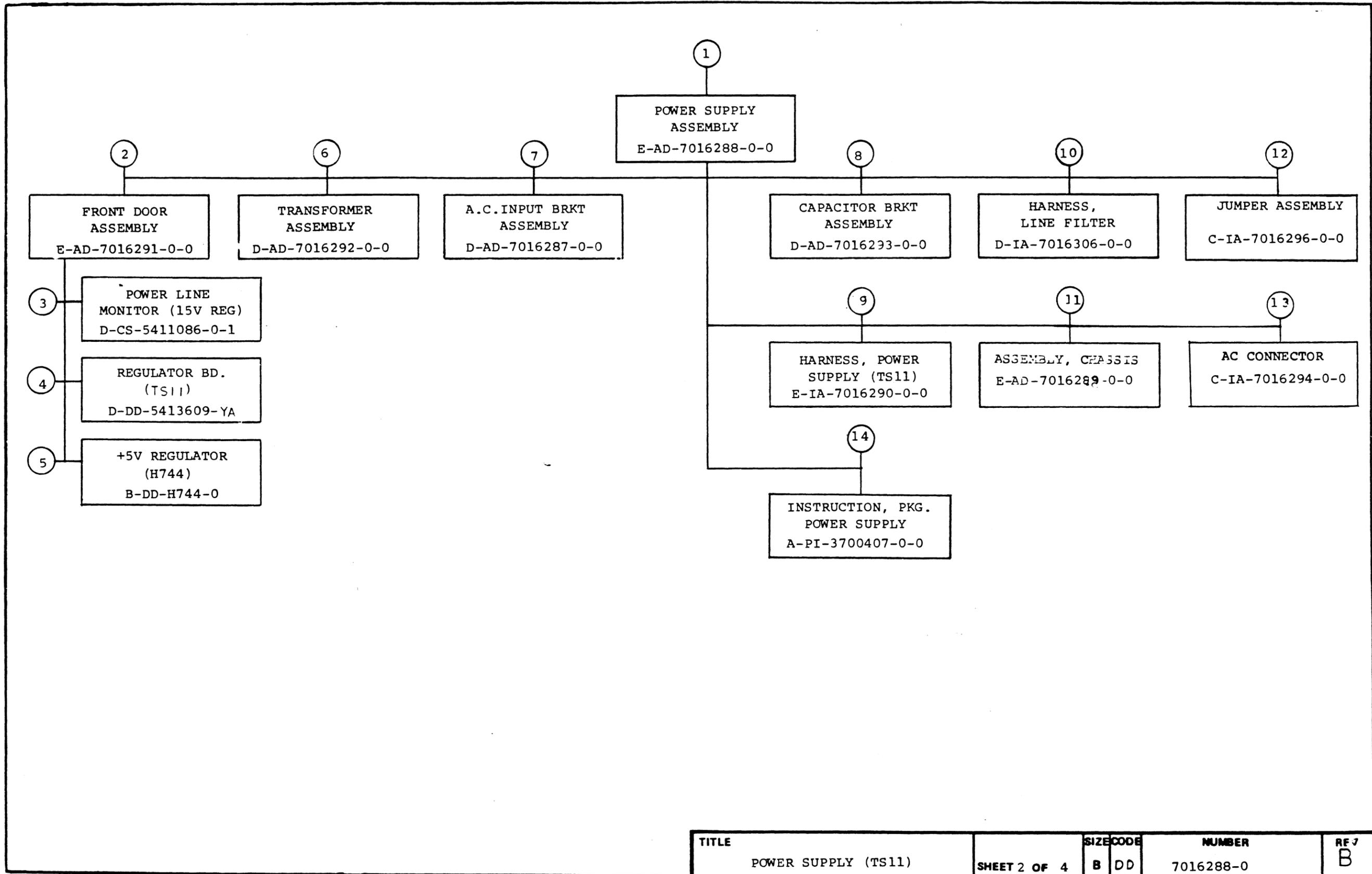
ITEM NO	DESCRIPTION	FROM POINT	CONNECTION	WITH	POINT	CONNECTION	WITH	REMARKS
2	14	BLACK		CBI-3		J1-1		A.C. INPUT ASSEMBLY D-IA-7016287-01 240V WIRING (ONLY)
2	14	BLACK		CBI-4		J1-4		
2	14	BLACK		J1-2		J1-3		
2	14	BLACK		J1-5		J1-7		
2	14	BLACK		J1-6		J1-8		
2	14	BROWN		FL1-1		CBI-1		
2	14	BLUE		FL1-2		CBI-2		
2	14	GRN/YEL		FL1-GND		GND 1		

WIRING TYPICAL FOR BOTH TABLES AND 7016288-01

WIRING FOR 7016288-00 (ONLY)

WIRING FOR 7016288-01 (ONLY)





TITLE	SHEET 2 OF 4	SIZE CODE	NUMBER	REV
POWER SUPPLY (TS11)		B DD	7016288-0	B

ML2

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE	FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
1	MP00699	FIELD MAINTENANCE PRINT SET (MP)	REF	5	B-DD-H744-0	+5V REGULATOR (H744)	E/M
	E-AD-7016288-0-0	POWER SUPPLY (TS11)	E/M				
	K-PL-7016288-0-DBP	POWER SUPPLY (TS11)	E/M				
	D-MD-7421771-0-0	COVER, TOP	M				
	B-MD-7422499-0-0	PLEXI COVER	M				
				6	D-AD-7016292-0-0	TRANSFORMER ASSY	E/M
					B-PL-7016292-0-0	TRANSFORMER ASSY	E/M
				7	D-AD-7016287-0-0	A.C. INPUT BRKT ASSEMBLY	E/M
					B-PL-7016287-0-0	A.C. INPUT BRKT ASSEMBLY	E/M
					D-IA-7422052-0-0	BRACKET, A.C. INPUT	M
2	E-AD-7016291-0-0	FRONT DOOR ASSEMBLY	E/M				
	B-PL-7016291-0-0	FRONT DOOR ASSEMBLY	E/M				
	D-IA-7421772-0-0	DOOR, FRONT	M	8	D-AD-7016293-0-0	CAPACITOR BRKT ASSEMBLY	E/M
	C-IA-7421770-0-0	BRACKET, FAN	M		B-PL-7016293-0-0	CAPACITOR BRKT ASSEMBLY	E/M
					D-IA-7421773-0-0	BRACKET, CAPACITOR	M
					C-IA-7418370-0-0	RETAINER CAPACITOR	M
3	D-CS-5411086-0-1	POWER LINE MONITOR/15V REG	E/M				
	K-CO-5411086-0-4	X-Y COORDINATE HOLE LOCATION	M				
	D-AH-5411086-0-5	ASSY/DRILLING HOLE LAYOUT	M	9	E-IA-7016290-0-0	HARNESS, POWER SUPPLY (TS11)	E/M
	B-MH-5411086-0-6	MODULE E.C.O. HISTORY	REF		B-PL-7016290-0-0	HARNESS, POWER SUPPLY (TS11)	E/M
	5011085	ETCHED CIRCUIT BOARD	M				
	A-SP-11/45-TA-2	MODULE TEST PROCEDURE	REF				
	A-SP-5411086-0-3	ENG. SPEC-AND TEST PROC.	REF				
	7413721-0-0	.010 INCH SHIM	M				
				10	D-IA-7016206-0-0	HARNESS, LINE FILTER	E/M
					B-PL-7016306-0-0	HARNESS, LINE FILTER	E/M
4	B-DD-5413609-YA	REGULATOR BD. (TS11)	E/M				

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



TITLE
POWER SUPPLY (TS11)

SHEET 3 OF 4

SIZE CODE
B DD

NUMBER
7016288-0

REV
B

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY	PER VARIATION
1	D-AD-7016287-0-0	7016287-00	A.C. IPUT ASSY 240V	1	1
2	D-PS-1700083-0-0	1700083-00	PWR CORD, TERM. 75IN, 14-3, 125V 15	1	1
3	A-PS-1700083-0-0	1700083-17	FRONT CORD ASSY	1	1
4	E-1A-7016291-0-0	7016291-00	TRANSFORMER ASSY	1	1
5	D-AD-7016292-0-0	7016292-00	CAPACITOR BRKT. SUPPLY	1	1
6	E-1A-7016293-0-0	7016293-00	HARNNESS, POWER SUPPLY	1	1
7	C-1A-7016306-0-0	7016306-00	HARNNESS, LINE FILTER	1	1
8	E-AD-7016289-0-0	7016289-00	CHASSIS, WELDMENT ASSY	1	1
9	D-MD-7421771-0-0	7421771-00	TOP COVER	1	1
10	1	9006634-00	WASHER LOCK INT, 2300D X, 172TD	13	13
11	1	9006035-01	SCREW, PAN, PHIL, 8-32X 1/4 SS	9	9
12	1	9006037-01	SCREW, PAN, PHIL, 8-32X 3/8 SS	3	3
13	1	1212893-00	FUSE HOLDER, 20A, 300V PNL MNT	2	2
14	1	9007222-00	FUSE SLO BLD 5 A, 250V GLASS	2	2
15	1	9008264-00	MOUNT CABLE TIE, ADHESIVE BACKE	2	2
16	1	9008509-00	TERM BLOCK BPOS 7/16 SPACING CL	2	2
17	1	9006910-00	NUT, KEP 6-32X 5/16AF	4	4
18	1	9006560-00	JUMPER ASSY	2	2
19	1	7016296-00	JUMPER FOR TERM BLOCK	1	1
20	1	2422499-00	PLEXI-COVER	2	2
21	1	9006857-00	SPACER, HEX THD'D ALUM 6-32X	4	4
22	1	9006659-00	WASHER, FLAT .375 O.D. X .156 I	4	4
23	1	9006020-01	SCREW, PAN, PHIL 6-32X 1/4 SS	4	4
24	1	9006565-00	NUT, KEP 10-32X 3/8 AF	4	4
25	1	9006654-00	WASHER, FLAT .437 OD X .218 ID	4	4
26	1	9107253-00	TUBING, SHRINK 1/4 DIA. EXP UL	4	4
27	1	7016294-00	LINE FILTER ASSY	1	1
28	1	9009003-00	JUMPER FOR TERM BLOCK	1	1
<p>REVISION HISTORY</p> <p>BASIC PART NO: 7016288</p> <p>SECTION A OF A</p> <p>SECTION VARIATION INDEX</p> <p>DRN: M.J. MAHER DATE: 28-AUG-78</p> <p>CHK'D: D. BRIGHAM DATE: 09-NOV-78</p> <p>DES. ENG.: M. QUADRI DATE: 10-NOV-78</p> <p>RESP. ENG.: M. QUADRI DATE: 10-NOV-78</p> <p>MFG. ENG.: P. BARTON DATE: 10 NOV 78</p> <p>ASSEMBLY NUMBER: TOP DOCUMENT NUMBER</p> <p>E-AD-7016288-0-0</p> <p>FILE NAME: 7016288-0-DBP</p> <p>EDIT # 20</p> <p>POWER SUPPLY ASSEMBLY</p> <p>D I G I T A L P A R T S L I S T</p>					

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AUTOMATED BY PRTLST.3P(44)

PARTS LIST

SHEET A2 OF A2

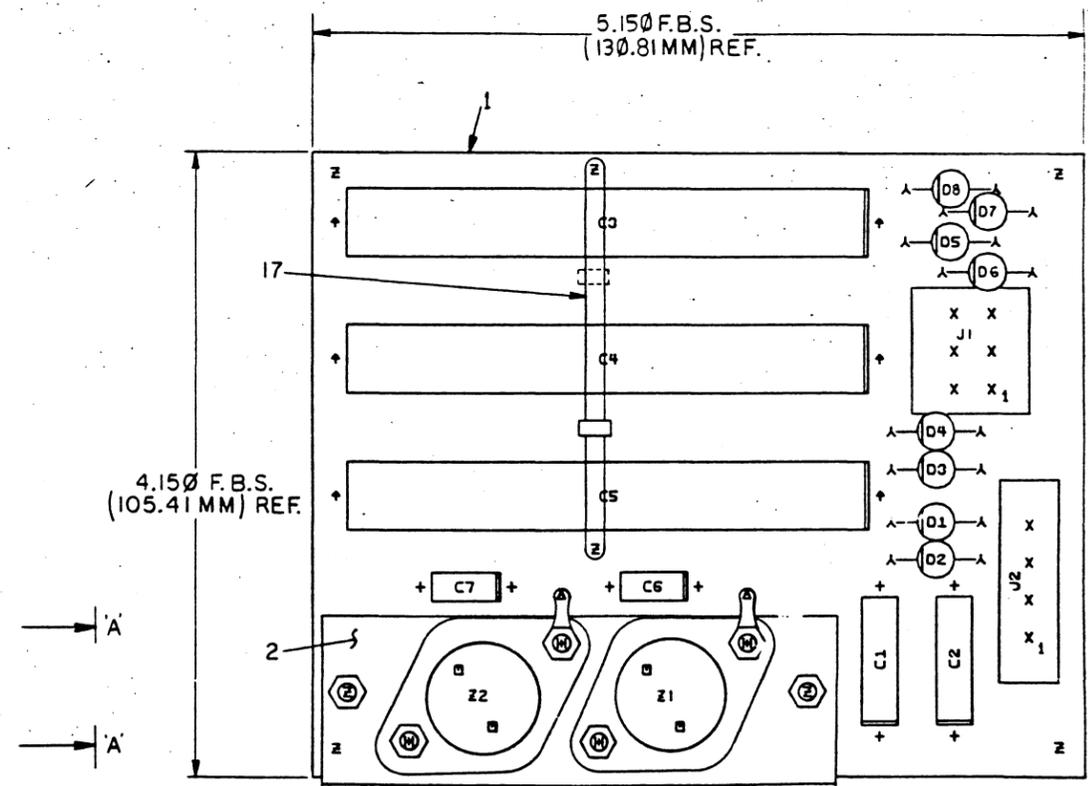
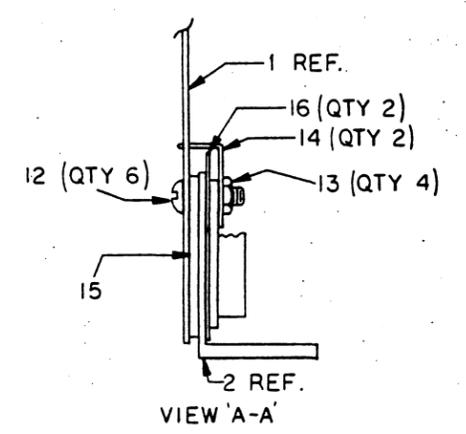
LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION	
					00	01
31	31	A-PS-3612680-0-0	3612680-00	DECAL, GROUND SIGN PER 3E6 *	2	2
32	32		9007880-00	TIE CABLE BUNDL DIA 0-1.14"=101	6	6
33	33	A-PS-1212170-0-0	1212170-00	MATE-N-LOK SKT UNIV 20-14AWG REE	2	2
34	34		9008290-01	FUSE SLO BLO 12 A 250V CER.	1	1
35	35	A-SP-3616126-0-0	3616126-00	LABEL, VOLTAGE & FREQUENCY CONFIG	1	1
36	36	A-SP-3616128-0-0	3616128-00	LABEL, TS11 PWR SUPPLY FUSE RATING	1	1
37	37	A-PI-3700407-0-0	3700407-00	INSTR PKG POWER SUPPLY 7016288-0	1	1
38	38		9007651-00	WASHER, LOCK, EXTERNAL TOOTH #10	1	1
39	39	A-PS-1311996-0-0	1311996-00	VARISTOR 150VAC VOLT TRANS SUP	2	2
40	40	A-PS-1012210-0-0	1012210-00	.1 MFD 220V 10% MET. MYLAR	2	2
41	41		9006762-00	TERM LUG #6STUD LOCKING 30	4	4
42	42		9107278-11	TUBING, THIN WALL, .042ID UL	A/R	A/R

D	I	G	I	T	A	L	TITLE	POWER SUPPLY ASSEMBLY	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
										K	PL	7016288-0-DBP	D

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DUA 5413609-0-0 2 1

COMPONENT SIDE VIEW



NOTES:

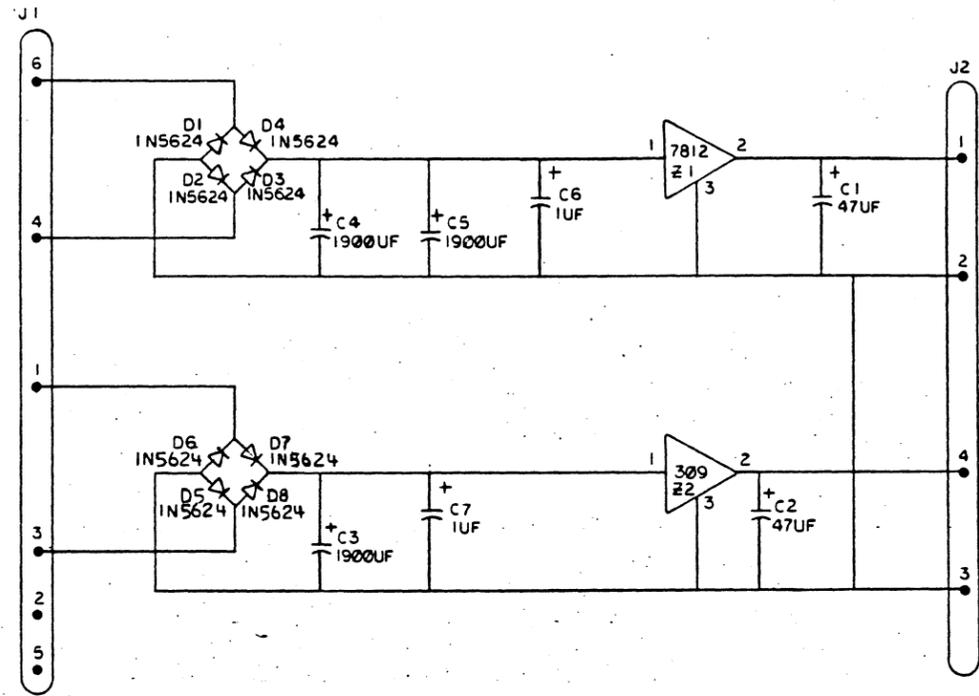
STEP E	+ Y AXIS	STEP	TIMES
REPEAT	+ X AXIS	STEP	TIMES

CHANGE NO	REV	B	C
REDRAWN	M1001		
27	12/10/79	MRC	C
A	BARON		

ETCH REV. C-P1

SIGNATURES		DATE	digital
DRN. <i>Paul Nichols</i>		12-28-79	
CHK'D. <i>A. Barson</i>		1-7-80	TITLE TU 58 REGULATOR BD
MECH. ENG. <i>A. Barson</i>		2-28-80	
PROJ. ENG. <i>J. Barson</i>		2-28-80	
PROD. <i>J. Barson</i>		2-28-80	
SCALE 2/1	SHT. 1 OF 1	SIZE CODE	NUMBER
NEXT HIGHER REV. B-00-5413609-0		D UA	5413609-0-0 C

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REV.	CHG.	CHANGE NO.	BY	DATE
B		5413609-ML	Baron	12/11/78
A		5413609-ML	Baron	11/14/78

DRN: Lisa Gamma 8/25/78	FIRST USED ON:	digital
CHK'D: [Signature]	TITLE:	TU58 REGULATOR BOARD
ENG. LEAD: [Signature]	SIZE:	D
PROJ. ENG. [Signature]	CODE:	CS
PROD. [Signature]	NUMBER:	5413609-0-1-C
NEXT HIGHER ASSY:	REV.:	1
B-DD-5413609-0	SCALE:	1/1
SHEET 1 OF 1	DIST.:	

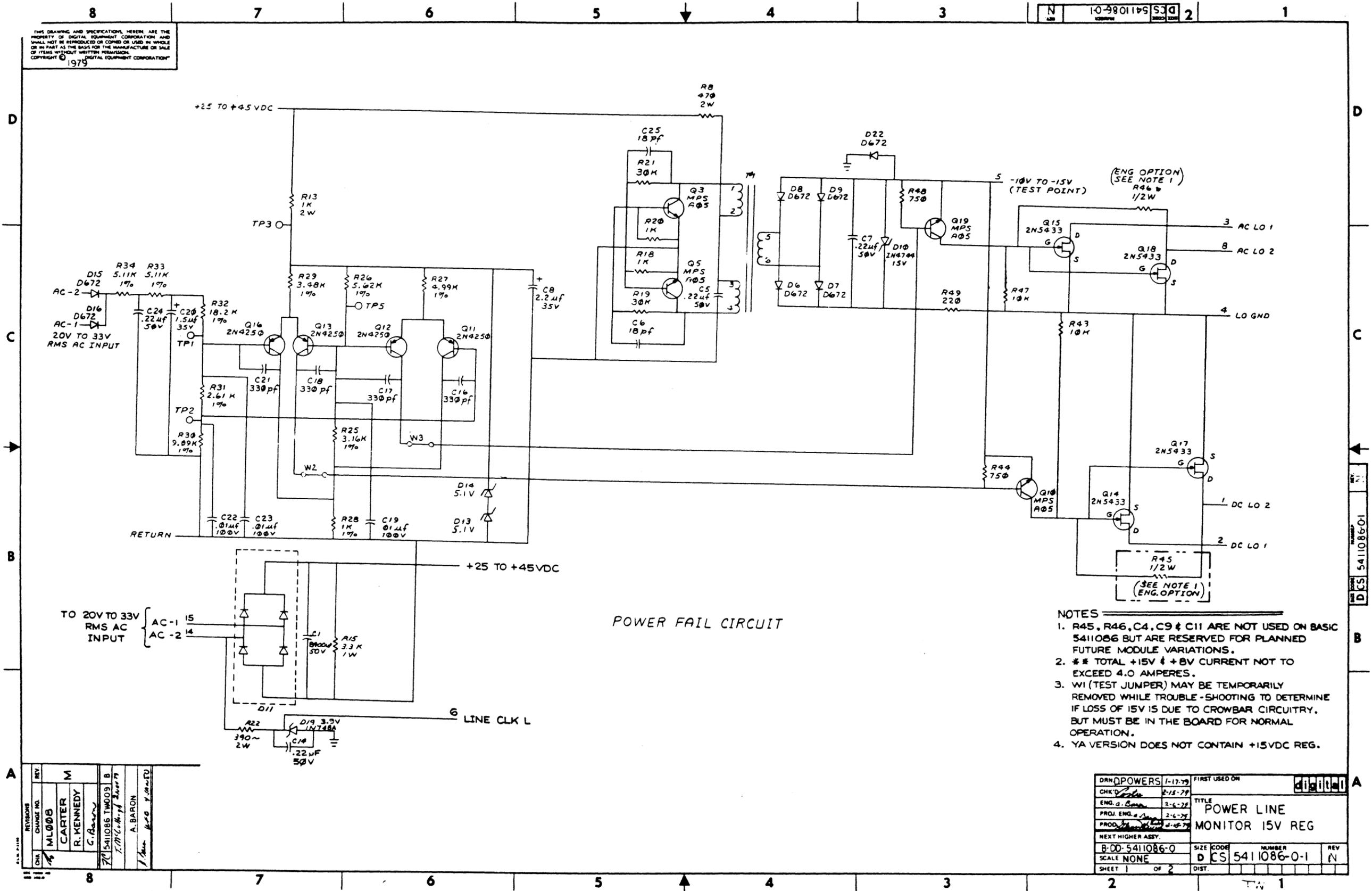
LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
					00	
1	1	D-MD-5013608-0-0	5013608-00	DRILL & ETCH BD	1	
2	2		1215894-00	HEAT SINK,2-3,ALUM	1	
3	3		1912048-04	DEC 7812 VOLT REG,FIX +12V	1	Z1
4	4		1910460-00	DEC 309 VOLT REG,FIX +15V	1	Z2
5	5		1110420-00	1N 5624 PIV=200 I= 5A	8	D1-D8
6	6		1105796-00	*** THIS ITEM IS NOT USED ***	-	
7	7		1011607-00	1900 MFD 40V +75-10% AL EL	3	C3-C5
8	8		1001776-00	1 MFD 35V 10% S.TANT	2	C6,C7
9	9		1000079-00	47 MFD 20V 20% S.TANT	2	C1,C2
10	10		1212297-01	MATE-N-LOK 4PIN UNIV HEADER	1	J2
11	11		1212297-05	MATE-N-LOK 6PIN UNIV HEADER	1	J1
12	12		9006022-01	SCREW,PAN,PHIL 6-32X 3/8 SS	6	
13	13		9008185-00	NUT,KEP , 6-32X1/4 AF	4	
14	14		9009676-00	TERM LUG 1POS SOLDER	2	
15	15		1215580-00	INSULATOR,MOLDED	2	
16	16		1213071-02	INSULATOR,RUBBER SILICONE SM	2	
17	17		9007880-00	TIE,CABLE BUNDL.DIA 0-1-1/4"=101	2	
18	18	D-EC-5013608-0-0		ETCH CUT DRAWING	REF	
19	19	D-UA-5413609-0-0		UNIT ASSEMBLY	REF	
20	20	D-CS-5413609-0-1		CIRCUIT SCHEMATIC	REF	

REVISION HISTORY		BASIC PART NO: 5413609		DRN:	J.WHITNEY	DATE:	10-JUN-80	D I G I T A L			
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D:	LARRY DOIRON	DATE:	10-JUN-80	TITLE PARTS LIST			
---	INITIAL	A	SECTION,VARIATION INDEX					TU58 REGULATOR BD			
AB	5413609-ML001	B	[A] 00	DES.ENG:	LARRY DOIRON	DATE:	10-JUN-80	DOCUMENT NUMBER			
			[B]					SIZE	CODE	NUMBER	REV
			[C]	RESP.ENG.:	LARRY DOIRON	DATE:	10-JUN-80				
			[D]								
			[E]								
			[F]								
			[G]								
			[H]	MFG.ENG.:	PETER BARTON	DATE:	10-JUN-80	K	PL	5413609-0-DBP	B
			[I]								
			[J]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #	
			[K]	D-UA-5413609-0-0		#B-DD-5413609-0		Z1483B.PLS		4	
			[L]								
			[M]								
			[N]								

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10-9801145 SCS 2



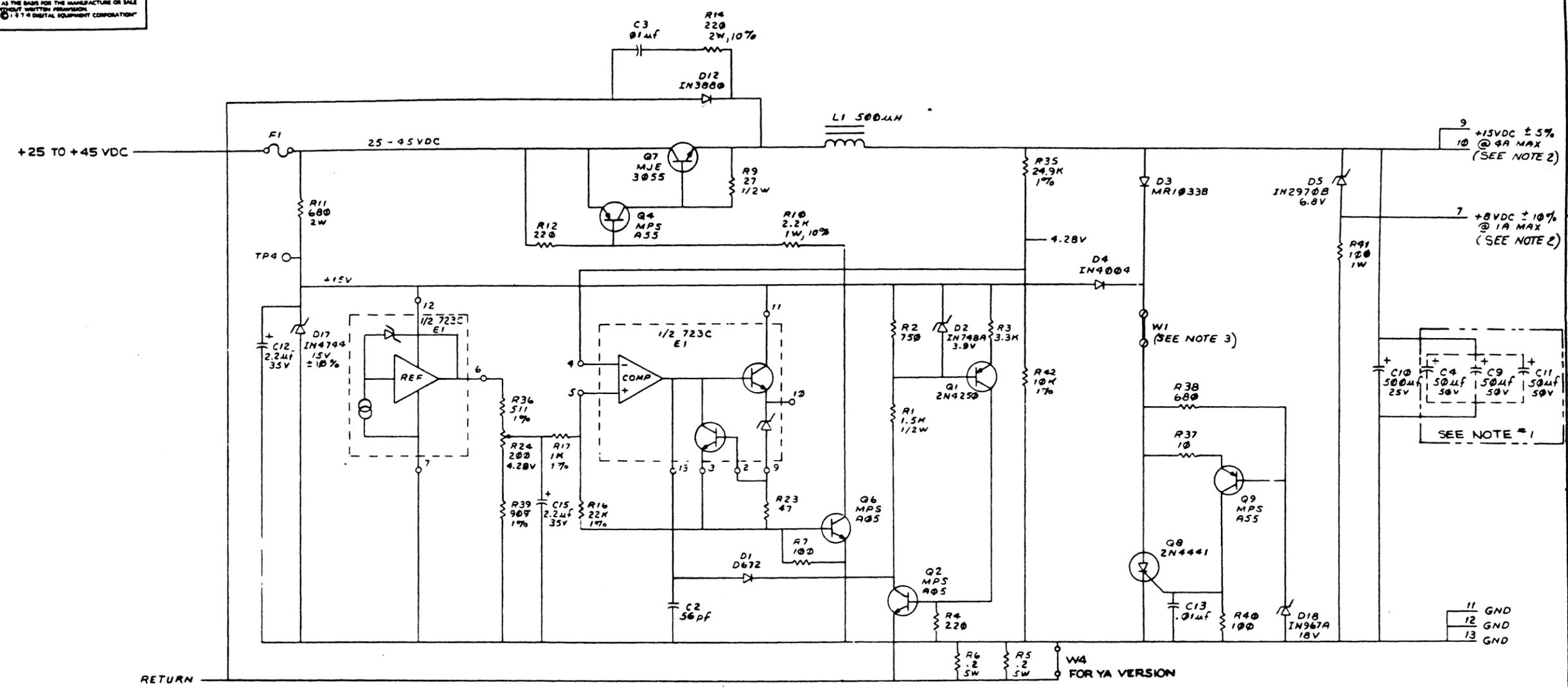
POWER FAIL CIRCUIT

- NOTES
1. R45, R46, C4, C9 & C11 ARE NOT USED ON BASIC 5411086 BUT ARE RESERVED FOR PLANNED FUTURE MODULE VARIATIONS.
 2. ** TOTAL +15V & +5V CURRENT NOT TO EXCEED 4.0 AMPERES.
 3. W1 (TEST JUMPER) MAY BE TEMPORARILY REMOVED WHILE TROUBLE-SHOOTING TO DETERMINE IF LOSS OF 15V IS DUE TO CROWBAR CIRCUITRY, BUT MUST BE IN THE BOARD FOR NORMAL OPERATION.
 4. YA VERSION DOES NOT CONTAIN +15VDC REG.

REV	BY	CHK	DATE
1	M		
2	M		
3	R. KENNEDY		
4	G. BARRY		
5	A. BARON		

DRN POWERS	1-17-79	FIRST USED ON	
CHK'D	2-18-79	TITLE	POWER LINE
ENG. D.	2-6-79	NUMBER	5411086-0-1
PROJ. ENG.	2-6-79	REV	N
PROD. BY	2-6-79	SCALE	NONE
NEXT HIGHER ASSY.	B-00-5411086-0	SIZE	D
SCALE	NONE	DIST.	
SHEET	1	OF	2

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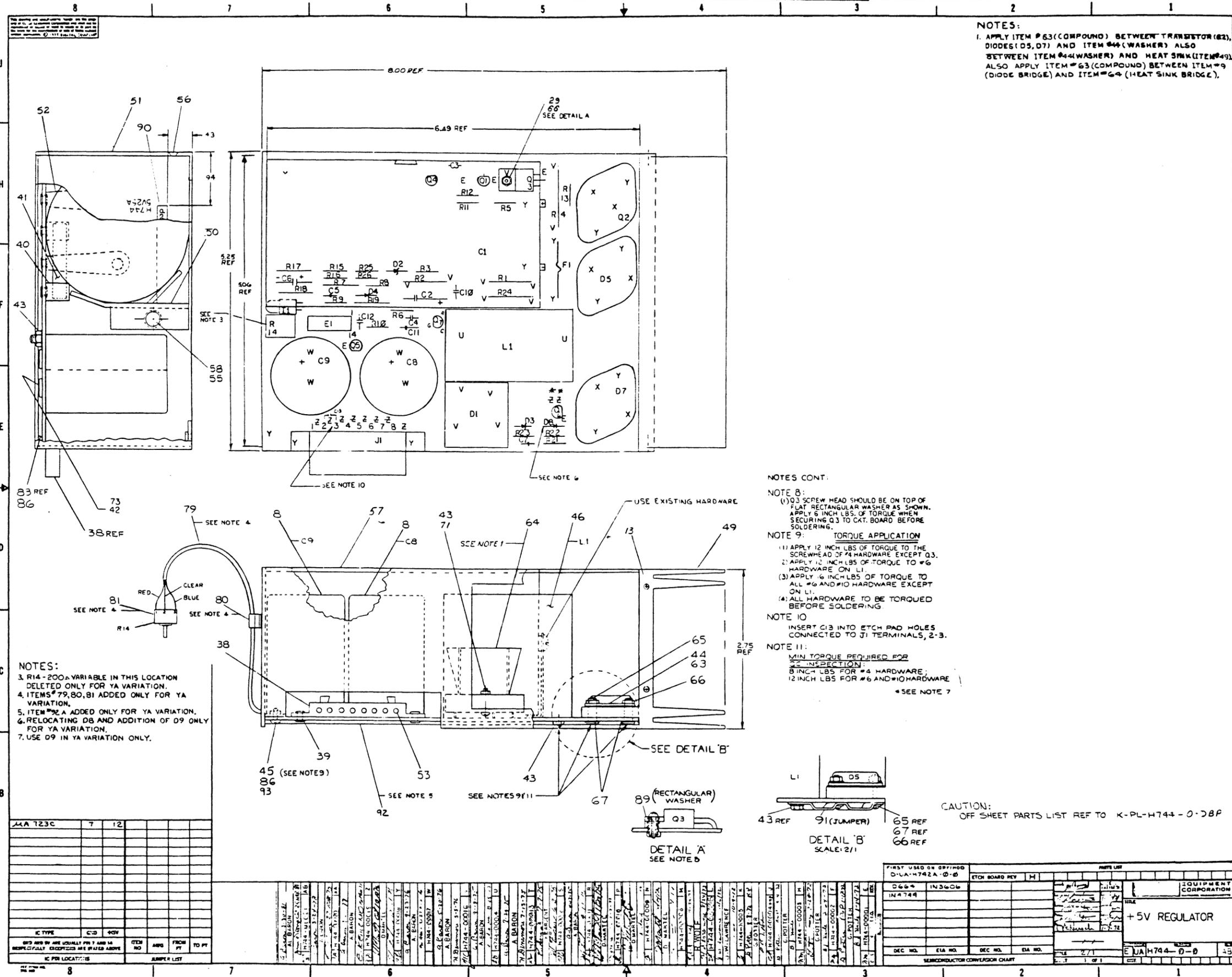


15V REGULATOR
(SEE NOTE #4)

REVISIONS		
CHK	CHANGE NO	REV

TITLE	PWR. LINE MONITOR/15V REG.	SIZE/CODE	D CS 5411086-0-1	NUMBER		REV.	N
SCALE		SHEET	2	OF	2	DIST.	

D CS 5411086-0-1 N



NOTES:
 1. APPLY ITEM #63 (COMPOUND) BETWEEN TRANSISTOR (R2), DIODES (D5, D7) AND ITEM #44 (WASHER) ALSO BETWEEN ITEM #44 (WASHER) AND HEAT SINK (ITEM #49). ALSO APPLY ITEM #63 (COMPOUND) BETWEEN ITEM #9 (DIODE BRIDGE) AND ITEM #64 (HEAT SINK BRIDGE).

NOTES CONT.

- NOTE 8:
 (1) Q3 SCREW HEAD SHOULD BE ON TOP OF FLAT RECTANGULAR WASHER AS SHOWN. APPLY 5 INCH LBS. OF TORQUE WHEN SECURING Q3 TO CMT. BOARD BEFORE SOLDERING.
- NOTE 9: TORQUE APPLICATION
 (1) APPLY 12 INCH LBS OF TORQUE TO THE SCREWHEAD OF #4 HARDWARE EXCEPT Q3.
 (2) APPLY 12 INCH LBS OF TORQUE TO #6 HARDWARE ON L1.
 (3) APPLY 16 INCH LBS OF TORQUE TO ALL #6 AND #10 HARDWARE EXCEPT ON L1.
 (4) ALL HARDWARE TO BE TORQUED BEFORE SOLDERING.
- NOTE 10:
 INSERT C13 INTO ETCH PAD HOLES CONNECTED TO J1 TERMINALS, 2-3.
- NOTE 11:
 MIN TORQUE REQUIRED FOR INSPECTION:
 8 INCH LBS FOR #4 HARDWARE;
 12 INCH LBS FOR #6 AND #10 HARDWARE
 *SEE NOTE 7

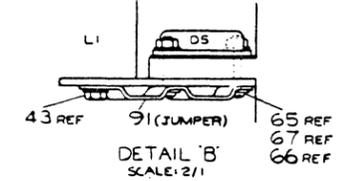
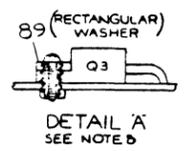
NOTES:
 3. R14-200A VARIABLE IN THIS LOCATION DELETED ONLY FOR YA VARIATION.
 4. ITEMS #79, 80, 81 ADDED ONLY FOR YA VARIATION.
 5. ITEM #92A ADDED ONLY FOR YA VARIATION.
 6. RELOCATING D8 AND ADDITION OF D9 ONLY FOR YA VARIATION.
 7. USE D9 IN YA VARIATION ONLY.

IC TYPE	C13	Q3V	ITEM NO.	QTY	FROM	TO
7418			1	1		
7418			2	1		
7418			3	1		
7418			4	1		
7418			5	1		
7418			6	1		
7418			7	1		
7418			8	1		
7418			9	1		
7418			10	1		
7418			11	1		
7418			12	1		

ITEM NO.	QTY	DESCRIPTION	REV.
1	1	RESISTOR 10K	
2	1	RESISTOR 10K	
3	1	RESISTOR 10K	
4	1	RESISTOR 10K	
5	1	RESISTOR 10K	
6	1	RESISTOR 10K	
7	1	RESISTOR 10K	
8	1	RESISTOR 10K	
9	1	RESISTOR 10K	
10	1	RESISTOR 10K	
11	1	RESISTOR 10K	
12	1	RESISTOR 10K	
13	1	RESISTOR 10K	
14	1	RESISTOR 10K	
15	1	RESISTOR 10K	
16	1	RESISTOR 10K	
17	1	RESISTOR 10K	
18	1	RESISTOR 10K	
19	1	RESISTOR 10K	
20	1	RESISTOR 10K	
21	1	RESISTOR 10K	
22	1	RESISTOR 10K	
23	1	RESISTOR 10K	
24	1	RESISTOR 10K	
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29	1	RESISTOR 10K	
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42	1	RESISTOR 10K	
43	1	RESISTOR 10K	
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49	1	RESISTOR 10K	
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71	1	RESISTOR 10K	
72	1	RESISTOR 10K	
73	1	RESISTOR 10K	
74	1	RESISTOR 10K	
75	1	RESISTOR 10K	
76	1	RESISTOR 10K	
77	1	RESISTOR 10K	
78	1	RESISTOR 10K	
79	1	RESISTOR 10K	
80	1	RESISTOR 10K	
81	1	RESISTOR 10K	
82	1	RESISTOR 10K	
83	1	RESISTOR 10K	
84	1	RESISTOR 10K	
85	1	RESISTOR 10K	
86	1	RESISTOR 10K	
87	1	RESISTOR 10K	
88	1	RESISTOR 10K	
89	1	RESISTOR 10K	
90	1	RESISTOR 10K	
91	1	RESISTOR 10K	
92	1	RESISTOR 10K	
93	1	RESISTOR 10K	
94	1	RESISTOR 10K	
95	1	RESISTOR 10K	
96	1	RESISTOR 10K	
97	1	RESISTOR 10K	
98	1	RESISTOR 10K	
99	1	RESISTOR 10K	
100	1	RESISTOR 10K	

REV.	DATE	DESCRIPTION	BY	CHKD.
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

CAUTION: OFF SHEET PARTS LIST REF TO K-PL-H744-0-DBP



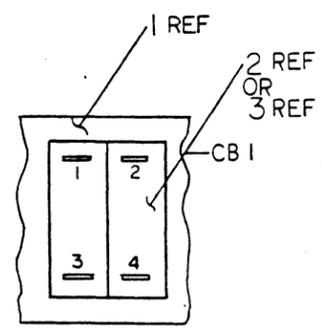
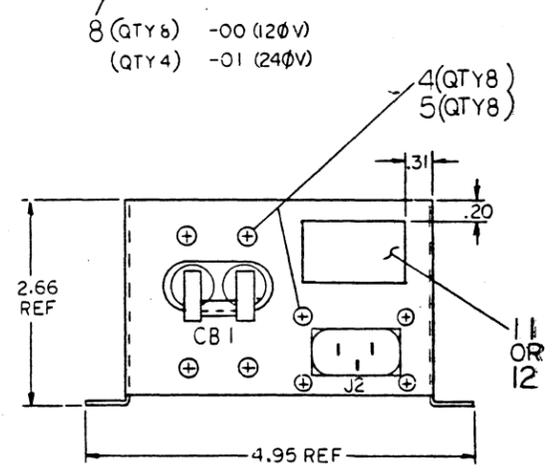
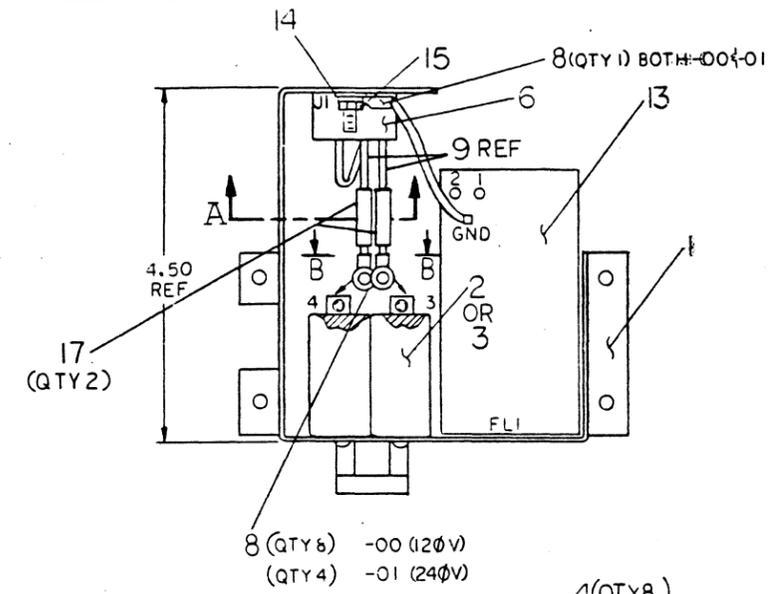
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WIRE TABLE 7016287-00							
ITEM NO	AWG	COLOR	CONN	WITH	CONN	WITH	REMARKS
9	14	BLACK	J1-1	7	CBI-3	8	
			J1-2		CBI-4		
			J1-3		CBI-3		
			J1-4		CBI-4		
			J1-7		CBI-3		
9	14	BLACK	J1-8	7	CBI-4	8	
13	-	BROWN	FLI-1	-	CBI-1	8	
13	-	BLUE	FLI-2	-	CBI-2	8	
16	14	GRN/YEL	FLI-GND	SOLDER	GND-1	8	

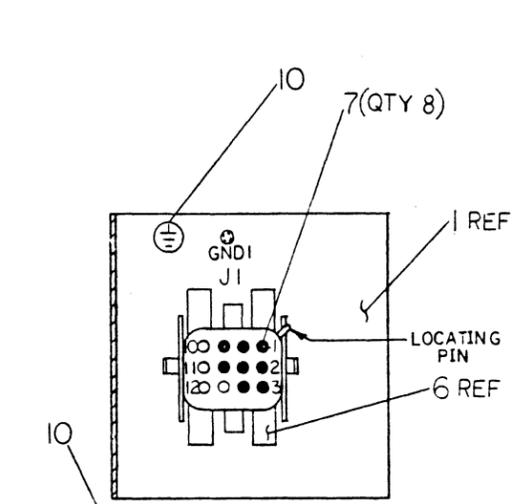
WIRE TABLE 7016287-01							
ITEM NO	AWG	COLOR	CONN	WITH	CONN	WITH	REMARKS
9	14	BLACK*	J1-1	7	CBI-3	8	
			J1-2		J1-3	7	JUMPER
			J1-4		CBI-4	8	
			J1-5		J1-7	7	JUMPER
9	14	BLACK*	J1-6	7	J1-8	7	JUMPER
13	-	BROWN	FLI-1	-	CBI-1	8	
13	-	BLUE	FLI-2	-	CBI-2	8	
16	14	GRN/YEL	FLI-GND	SOLDER	GND-1	8	

LEGEND	
PART NO	VARIATION
7016287-00	120V
7016287-01	240V

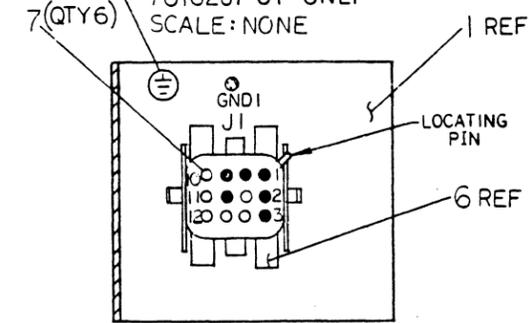
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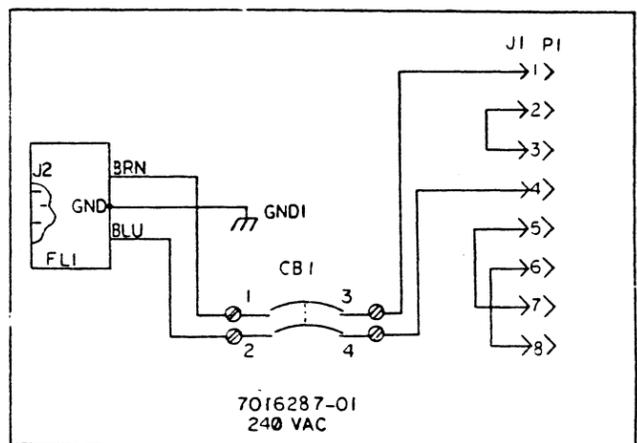
VIEW B-B



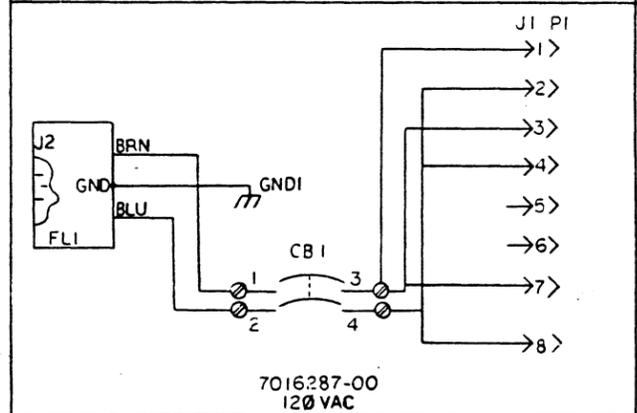
SECTION A-A
7016287-01 ONLY
SCALE: NONE



SECTION A-A
7016287-00 ONLY
SCALE: NONE



7016287-01
240 VAC



7016287-00
120 VAC

CAUTION OFF SHEETS PARTS LIST REFER TO K-PL-7016287-0-DBP (Z3784)

REV	DATE	BY	CHKD	DESCRIPTION
1	10/11/78	M. QUADRI		ISSUE FOR MANUFACTURE
2	11/15/78	M. QUADRI		REVISED TO ADD 16 AWG WIRE
3	12/15/78	M. QUADRI		REVISED TO ADD 13 AWG WIRE
4	1/15/79	M. QUADRI		REVISED TO ADD 9 AWG WIRE
5	2/15/79	M. QUADRI		REVISED TO ADD 14 AWG WIRE
6	3/15/79	M. QUADRI		REVISED TO ADD 15 AWG WIRE
7	4/15/79	M. QUADRI		REVISED TO ADD 16 AWG WIRE
8	5/15/79	M. QUADRI		REVISED TO ADD 17 AWG WIRE
9	6/15/79	M. QUADRI		REVISED TO ADD 18 AWG WIRE
10	7/15/79	M. QUADRI		REVISED TO ADD 19 AWG WIRE
11	8/15/79	M. QUADRI		REVISED TO ADD 20 AWG WIRE
12	9/15/79	M. QUADRI		REVISED TO ADD 21 AWG WIRE
13	10/15/79	M. QUADRI		REVISED TO ADD 22 AWG WIRE
14	11/15/79	M. QUADRI		REVISED TO ADD 23 AWG WIRE
15	12/15/79	M. QUADRI		REVISED TO ADD 24 AWG WIRE
16	1/15/80	M. QUADRI		REVISED TO ADD 25 AWG WIRE
17	2/15/80	M. QUADRI		REVISED TO ADD 26 AWG WIRE
18	3/15/80	M. QUADRI		REVISED TO ADD 27 AWG WIRE
19	4/15/80	M. QUADRI		REVISED TO ADD 28 AWG WIRE
20	5/15/80	M. QUADRI		REVISED TO ADD 29 AWG WIRE
21	6/15/80	M. QUADRI		REVISED TO ADD 30 AWG WIRE
22	7/15/80	M. QUADRI		REVISED TO ADD 31 AWG WIRE
23	8/15/80	M. QUADRI		REVISED TO ADD 32 AWG WIRE
24	9/15/80	M. QUADRI		REVISED TO ADD 33 AWG WIRE
25	10/15/80	M. QUADRI		REVISED TO ADD 34 AWG WIRE
26	11/15/80	M. QUADRI		REVISED TO ADD 35 AWG WIRE
27	12/15/80	M. QUADRI		REVISED TO ADD 36 AWG WIRE
28	1/15/81	M. QUADRI		REVISED TO ADD 37 AWG WIRE
29	2/15/81	M. QUADRI		REVISED TO ADD 38 AWG WIRE
30	3/15/81	M. QUADRI		REVISED TO ADD 39 AWG WIRE
31	4/15/81	M. QUADRI		REVISED TO ADD 40 AWG WIRE
32	5/15/81	M. QUADRI		REVISED TO ADD 41 AWG WIRE
33	6/15/81	M. QUADRI		REVISED TO ADD 42 AWG WIRE
34	7/15/81	M. QUADRI		REVISED TO ADD 43 AWG WIRE
35	8/15/81	M. QUADRI		REVISED TO ADD 44 AWG WIRE
36	9/15/81	M. QUADRI		REVISED TO ADD 45 AWG WIRE
37	10/15/81	M. QUADRI		REVISED TO ADD 46 AWG WIRE
38	11/15/81	M. QUADRI		REVISED TO ADD 47 AWG WIRE
39	12/15/81	M. QUADRI		REVISED TO ADD 48 AWG WIRE
40	1/15/82	M. QUADRI		REVISED TO ADD 49 AWG WIRE
41	2/15/82	M. QUADRI		REVISED TO ADD 50 AWG WIRE
42	3/15/82	M. QUADRI		REVISED TO ADD 51 AWG WIRE
43	4/15/82	M. QUADRI		REVISED TO ADD 52 AWG WIRE
44	5/15/82	M. QUADRI		REVISED TO ADD 53 AWG WIRE
45	6/15/82	M. QUADRI		REVISED TO ADD 54 AWG WIRE
46	7/15/82	M. QUADRI		REVISED TO ADD 55 AWG WIRE
47	8/15/82	M. QUADRI		REVISED TO ADD 56 AWG WIRE
48	9/15/82	M. QUADRI		REVISED TO ADD 57 AWG WIRE
49	10/15/82	M. QUADRI		REVISED TO ADD 58 AWG WIRE
50	11/15/82	M. QUADRI		REVISED TO ADD 59 AWG WIRE
51	12/15/82	M. QUADRI		REVISED TO ADD 60 AWG WIRE
52	1/15/83	M. QUADRI		REVISED TO ADD 61 AWG WIRE
53	2/15/83	M. QUADRI		REVISED TO ADD 62 AWG WIRE
54	3/15/83	M. QUADRI		REVISED TO ADD 63 AWG WIRE
55	4/15/83	M. QUADRI		REVISED TO ADD 64 AWG WIRE
56	5/15/83	M. QUADRI		REVISED TO ADD 65 AWG WIRE
57	6/15/83	M. QUADRI		REVISED TO ADD 66 AWG WIRE
58	7/15/83	M. QUADRI		REVISED TO ADD 67 AWG WIRE
59	8/15/83	M. QUADRI		REVISED TO ADD 68 AWG WIRE
60	9/15/83	M. QUADRI		REVISED TO ADD 69 AWG WIRE
61	10/15/83	M. QUADRI		REVISED TO ADD 70 AWG WIRE
62	11/15/83	M. QUADRI		REVISED TO ADD 71 AWG WIRE
63	12/15/83	M. QUADRI		REVISED TO ADD 72 AWG WIRE
64	1/15/84	M. QUADRI		REVISED TO ADD 73 AWG WIRE
65	2/15/84	M. QUADRI		REVISED TO ADD 74 AWG WIRE
66	3/15/84	M. QUADRI		REVISED TO ADD 75 AWG WIRE
67	4/15/84	M. QUADRI		REVISED TO ADD 76 AWG WIRE
68	5/15/84	M. QUADRI		REVISED TO ADD 77 AWG WIRE
69	6/15/84	M. QUADRI		REVISED TO ADD 78 AWG WIRE
70	7/15/84	M. QUADRI		REVISED TO ADD 79 AWG WIRE
71	8/15/84	M. QUADRI		REVISED TO ADD 80 AWG WIRE
72	9/15/84	M. QUADRI		REVISED TO ADD 81 AWG WIRE
73	10/15/84	M. QUADRI		REVISED TO ADD 82 AWG WIRE
74	11/15/84	M. QUADRI		REVISED TO ADD 83 AWG WIRE
75	12/15/84	M. QUADRI		REVISED TO ADD 84 AWG WIRE
76	1/15/85	M. QUADRI		REVISED TO ADD 85 AWG WIRE
77	2/15/85	M. QUADRI		REVISED TO ADD 86 AWG WIRE
78	3/15/85	M. QUADRI		REVISED TO ADD 87 AWG WIRE
79	4/15/85	M. QUADRI		REVISED TO ADD 88 AWG WIRE
80	5/15/85	M. QUADRI		REVISED TO ADD 89 AWG WIRE
81	6/15/85	M. QUADRI		REVISED TO ADD 90 AWG WIRE
82	7/15/85	M. QUADRI		REVISED TO ADD 91 AWG WIRE
83	8/15/85	M. QUADRI		REVISED TO ADD 92 AWG WIRE
84	9/15/85	M. QUADRI		REVISED TO ADD 93 AWG WIRE
85	10/15/85	M. QUADRI		REVISED TO ADD 94 AWG WIRE
86	11/15/85	M. QUADRI		REVISED TO ADD 95 AWG WIRE
87	12/15/85	M. QUADRI		REVISED TO ADD 96 AWG WIRE
88	1/15/86	M. QUADRI		REVISED TO ADD 97 AWG WIRE
89	2/15/86	M. QUADRI		REVISED TO ADD 98 AWG WIRE
90	3/15/86	M. QUADRI		REVISED TO ADD 99 AWG WIRE
91	4/15/86	M. QUADRI		REVISED TO ADD 100 AWG WIRE

QUANTITY & VARIATION		DESCRIPTION		DWG/PART NO.		ITEM NO.
1	1	AC INPUT ASSEMBLY	E-AD-7016288-0-0	SIZE CODE	D	AD 7016287-0-0
1	1	AC INPUT ASSEMBLY	E-AD-7016287-0-0	SCALE	1/1	
1	1	AC INPUT ASSEMBLY	E-AD-7016287-0-0	SHEET	OF 1	

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL SEE B-PL-7016287-0-0

FINISH

CLASS OF ACCURACY (CHECK ONE)

SURFACE QUALITY IN MICROINCHES (PREFERRED)

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

CLASS OF ACCURACY	0.001	0.002	0.003	0.004	0.005	0.006	0.007	0.008	0.009	0.010
ANGLES 90° 30'	0.001	0.002	0.003	0.004	0.005	0.006	0.007	0.008	0.009	0.010
CLASS OF ACCURACY	0.001	0.002	0.003	0.004	0.005	0.006	0.007	0.008	0.009	0.010
SURFACE QUALITY IN MICROINCHES	1.0	2.5	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0

DRN: M. QUADRI

CHK'D: P. QUADRI

ENGR: M. QUADRI

PROD: P. QUADRI

FIRST USED ON TS11

TITLE A.C. INPUT ASSEMBLY

SIZE CODE D

NUMBER AD 7016287-0-0

REV C

AUTOMATED BY: FRTLST.3P(44)

PARTS LIST

SHEET A1 OF A1

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION	
					00	01
1		D-IA-7422051-0-0	7422051-00	BRKT AC INPUT	1	1
2			1212124-03	CKT BKR 10.0 A 240V 2P SERIES TR	0	1
3			1212124-05	CKT BKR 20.0 A 240V 2P SERIES TR	1	0
4			9006020-01	SCREW PAN PHIL 6-32X 1/4 SS	8	8
5			9006633-00	WASHER LOCK INT .2800D X .146ID	8	8
6			1212168-03	MATE-N-LOK 12POS UNIV HSG,PIN OR	1	1
7			1212169-00	MATE-N-LOK PIN 14-20AWG	6	6
8			9007928-00	TERM,RING #10STUD CRIMP 14-1	9	9
9			9107370-00	WIRE STRND,14AWG,IPVC UL1534	A/R	A/R
10			3612680-00	DECAL, GROUND SIGN PER 3E6 *	1	1
11		A-PS-3616127-0-0	3616127-00	LABEL INPUT POWER 120V	1	0
12		A-PS-3616127-0-0	3616127-01	LABEL INPUT POWER 240V	0	1
13			1216196-01	FILTER,LINE, 115W 47-47-63H2,8A	1	1
14			9007651-00	WASHER, LOCK, EXTERNAL TOOTH #10	1	1
15			9006565-00	NUT,KEP 10-32X 3/8 AF	1	1
16			9107777-54	WIRE STRND,14AWG,IPVC UL3317 GR	A/R	A/R
17			1605147-00	56-261-30-3B FERRITE TUBE	2	2

REVISION HISTORY		BASIC PART NO: 7016287		DRN: W.J. MAHER	DATE: 28 AUG 78	D I G I T A L	
ENG!	ECO NUMBER	REV	SECTION A OF A	CHK'D: BRIGHAM	DATE: 10 NOV 78	TITLE PARTS LIST	
M.Q.	7016287-MLO02	C	SECTION VARIATION INDEX	DES.ENG.: M. QUADRI	DATE: 10 NOV 78	A.C. INPUT BRACKET ASSY	
			(A) 00,01	RESP.ENG.: M. QUADRI	DATE: 11-JAN-82	DOCUMENT NUMBER	
			(B)	MFG.ENG.: P. BARLION	DATE: 10 NOV 78	SIZE: K	CODE: PL
			(C)	ASSEMBLY NUMBER: D-AD-7016287-0-0	TOP DOCUMENT NUMBER:	NUMBER: 7016287-0-DBP	REV: C
			(D)			FILE NAME: Z37840.PLS	EDIT #: 6
			(E)				
			(F)				

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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION	
					AA	AB
1	1	O-1A-7016301-0-0	7016301-00	FRAME ASSY	1	1
2	2	E-AD-7016288-0-0	7016288-00	POWER SUPPLY ASSY 120V	1	1
3	3	F-AD-7016288-01-0	7016288-01	POWER SUPPLY ASSY 240V	1	1
4	4	O-1A-7016676-0-0	7016676-00	ELECTRONIC CHASSIS ASSY	1	1
5	5	O-AD-7013573-0-0	7013573-00	TAPE DRIVE ASSY TS04	1	1
6	6		1216608-00	SCREW, SET, SKT, 1/4-20X 1-1/4	4	4
7	7		9006241-09	SCREW, HEX 1/4-20X 1/2	4	4
8	8		9007797-00	WASHER, LOCK, S.S. 1/4	8	8
9	9		9008071-00	WASHER, FLAT .500 O.D. X .281 ID	4	4
10	10	A-PS-1213756-0-0	1213756-16	GROUND STRAP	1	1
11	11		9007651-00	WASHER, LOCK, EXTERNAL TOOTH #10	1	1
12	12		9006071-01	SCREW, PAN, PHIL 10-32X 3/8 SS	2	2
13	13		9006565-00	NUT, KEP 10-32X 3/8 AF	4	4
14	14	A-PS-1213756-0-0	1213756-12	GROUND STRAP	1	1
15	15		9006243-09	SCREW, HEX 1/4-20X 3/4	4	4
16	16		9006633-00	WASHER, LOCK, INT, .28000 X .145ID	4	4
17	17		9006021-01	SCREW, PAN, PHIL 6-32X 5/16 SS	4	4
18	18		9008228-00	FOAM TAPE, SINGLE COATED VINYL 1	A/R	A/R
19	19		9009911-00	MOUNT, CABLE TIE, SCREW OR ADHESI	2	2
20	20		9007032-00	TIE, CABLE BUNDL. DIA 0-1-3/4"-101	11	11
21	21	E-UA-TS04K-A-0	TS11K-AA	CONVERT TS11 TO 120V(LINE CORD, F	REF	REF
22	22		9006022-02	SCREW, FLAT, PHIL, 6-32X 3/8	2	2
23	23		9009030-00	/REPLACED BY 90-06560-00	1	1
24	24		3512580-00	DECAL, GROUND SIGN PER 3E6 *	5	5
25	25	A-PS-3512063-0-0	3512063-00	LABEL, ADHESIVE I.D. FOR UL C	1	1
26	26	A-PS-3513210-0-0	3513210-00	LABEL, ELECTRICAL DATA	1	1
27	27	C-1A-7013603-0-0	7013603-00	POWER SUPPLY HARNESS	1	1
28	28	A-PS-1213756-0-0	1213756-20	GROUND STRAP	1	1
29	29	A-PS-1213756-0-0	1213756-07	GROUND STRAP	1	1
30	30	A-PS-1215843-0-0	1215843-00	CLIP, FLAT CABLE W/ADHESIVE BK	6	6

REVISION HISTORY		BASIC PART NO: DTS04		DRN:	G. MARINI	DATE:	22-JUN-81	D I G I T A L	
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D:	B. TREMBLY	DATE:	22-JUN-81	TITLE	PARTS LIST
JB	TS04-A-MLO03	B	SECTION. VARIATION INDEX: [A] AA, AB					DRIVE, FRAME ASSY 9TS04-A) (TS04-A)	
			[B]	DES. ENG.:	M. CUCINA	DATE:	22-JUN-81		
			[C]	RESP. ENG.:	M. CUCINA	DATE:	22-JUN-81	DOCUMENT NUMBER	
			[D]					SIZE: CODE: NUMBER	REV
			[E]	MFG. ENG.:	T. WRIGHT	DATE:	22-JUN-81	K PL TS04-A-DBP	B
			[F]	ASSEMBLY NUMBER:	E-UA-TS04-A-0	TOP DOCUMENT NUMBER:	B-DD-TS04-A-0	FILE NAME:	EDIT #
								Z2745B.PLS	7

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PARTS LIST

QUANTITY PER VARIATION

AUTOMATED BY PRTLST.3P(44)

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	AA	AS
31	31	A-PS-1213715-0-0	1213715-01	SPACER,FOAM FOR FLAT WIRE CLIP	5	5
32	32		9009718-00	GROMMET, STRIP, 14"	3	3

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*****
D I G I T A L TITLE DRIVE FRAME ASSY 9T504-A) SECTION A OF A)
*****
I S I Z E CODE DOCUMENT NUMBER REV
*****
K PL T504-A-DBP
*****

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