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K-SA-TS11-C-DBF	TAPE DRIVE AND CAB ASSY
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B-DD-7017058-0	TS11 IN H9546 CAB
D-AD-7017058-0-0	TS11 IN H9546 CAB
K-PL-7017058-0-DBP	TS11 IN H9546 CAB
MP00849	DRIVE AND INTERFACE ASSY (TS11-A)

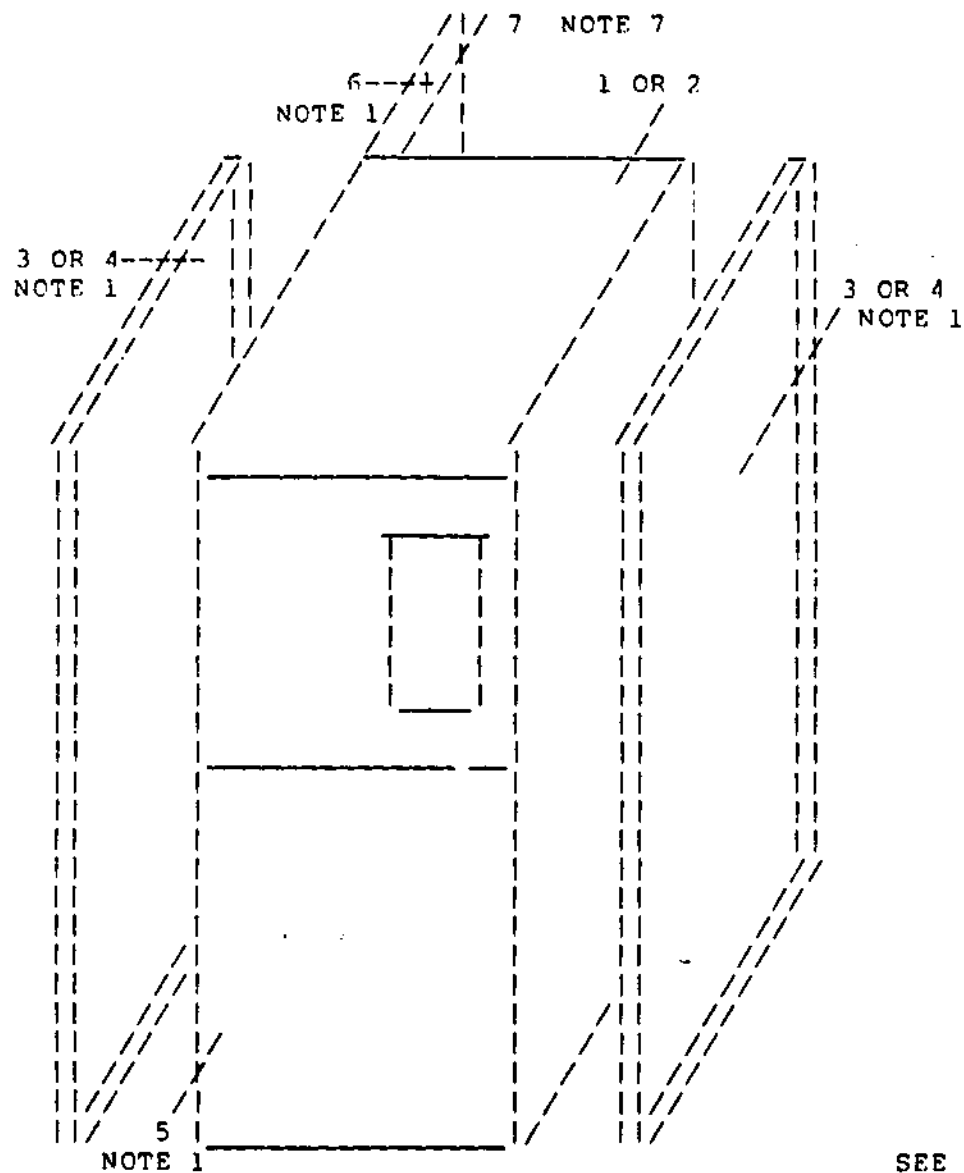
UNIT VARIATIONS COVERED BY THIS PRINT SET
TS11-CA
TS11-CB

TS11-C
Field Maintenance
Print Set

Digital Equipment
Corporation
PRINT SET ORDER NO.
MP00868

DATE	CHG. NO.	REV	INITIAL	USED ON OPTION/MODEL	DRN.	DATE	TITLE:			
		A			H. GREYULA	24AUG79	digital TAPE DRIVE AND CAB ASSY (TS11-C)			
					CHK'D	DATE				
					PROJ. ENG.	DATE				
					FIELD SERV.	DATE				
				SHEET 1 OF 1			SIZE	CODE	NUMBER	REV.
							B	TC	TS11-C-01	A
							DIST.			

REV. A
NUMBER TS11-C-01
SIZE CODE B TC



- 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	REVI	ENG	ECO NUMBER	REV	TITLE				
	INIT	A				SYSTEM ARRANGEMENT				
RN	TS11C-ML001	B			CHK'D: R. NELSON	DATE: 25 SEPT 79	TS11-A IN H9546 CAB			
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: K	CODE: SA	NUMBER: TS11-C-DBF	REV: C
							SHEET 1 OF 1			

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ML2

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION
1	D-90-7017053-D-0	7017053-00	TS11 UN. H9546 CAB	1
2	D-90-7017053-0-1	7017053-01	CANCEL (10-15-80 CAROL TAYLOR)	1
3	E-0A-H9544-A-0	H9544-A0	60" END PANEL, GREY FRAME, BROWN IN	1
4	E-0A-H9544-J-0	H9544-J0	60" TO 40" EXP PANEL TO JOIN 60"	1
5	E-0A-H9544-E-0	H9544-E0	FRONT DOOR FOR 40" CAB W/ 105" TO	1
6	E-0A-H9544-S-0	H9544-S0	60" REAR DOOR W/ LOCK, FULLY LOUVE	1

REVISION HISTORY BASIC PART NO: 0T511

ENG	DOC NUMBER	REV	SECTION A OF A	DRN	DATE	TITLE
---	INITIAL	A	SECTION VARIATION INDEX	F. TESLA	14-SEP-79	0 1 3 1 1 A 1
EN	TS11-C-MC001	B	[A] CA, CS	M. ARCHIE	14-SEP-79	PARTS LIST
						TS11-A IN H9546 CAB

DES. ENG.: R. NELSON DATE: 14-SEP-79
 REPT. ENG.: R. NELSON DATE: 14-SEP-79
 MFG. ENG.: J. SOUZA DATE: 30-SEP-79
 ASSEMBLY NUMBER: K-5A-TS11-C-0
 TOP DOCUMENT NUMBER: B-DD-TS11-C-0
 FILE NAME: Z09288.PLS

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DRAWING DIRECTORY

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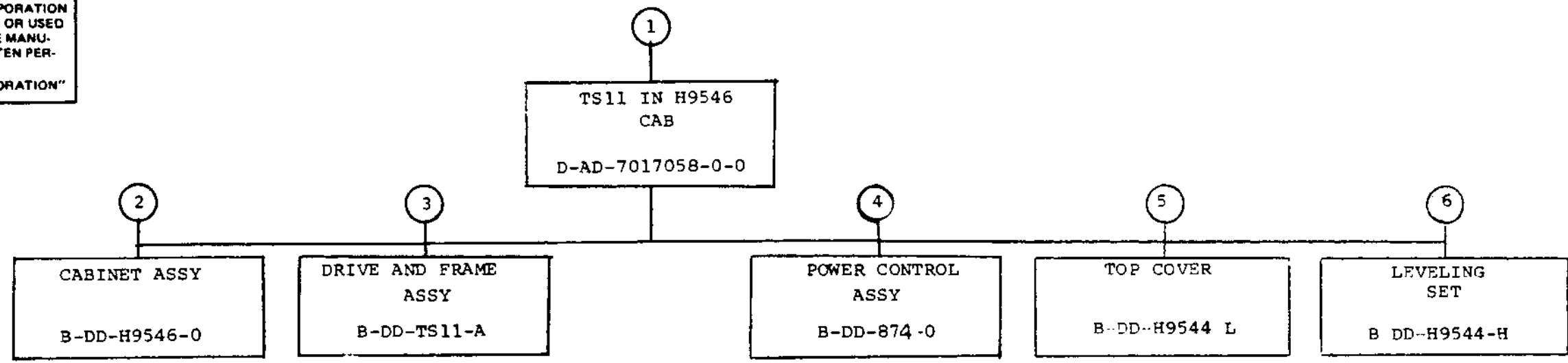
UNIT VARIATIONS	
VAR	TITLE
7017058-0-0	TS11 IN H9546 CAB 12ØV
7017058-1-0	TS11 IN H9546 CAB 24ØV

REVISIONS		REV.
CHK	CHANGE NO.	A
	INITIAL	A
		B
		C
		D

USED ON OPTION/MODEL	ORN. H. GREKULA	DATE 26 JUL 79	TITLE TS11 IN H9546 CAB	digital
	CHK'D. <i>R. Nelson</i>	DATE 14 Sept 79		
	PROJ. ENG. R. NELSON	DATE 9 JUL 79	SIZE B	CODE DD
	PROD. J. SOUZA	DATE 9 JUL 79	NUMBER 7017058-0	REV D
SHEET 1 OF 3			DIST.	


ML2

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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
--	---	----------------------------	--------------	--------------------------	---------------------	----------

DRB 108A

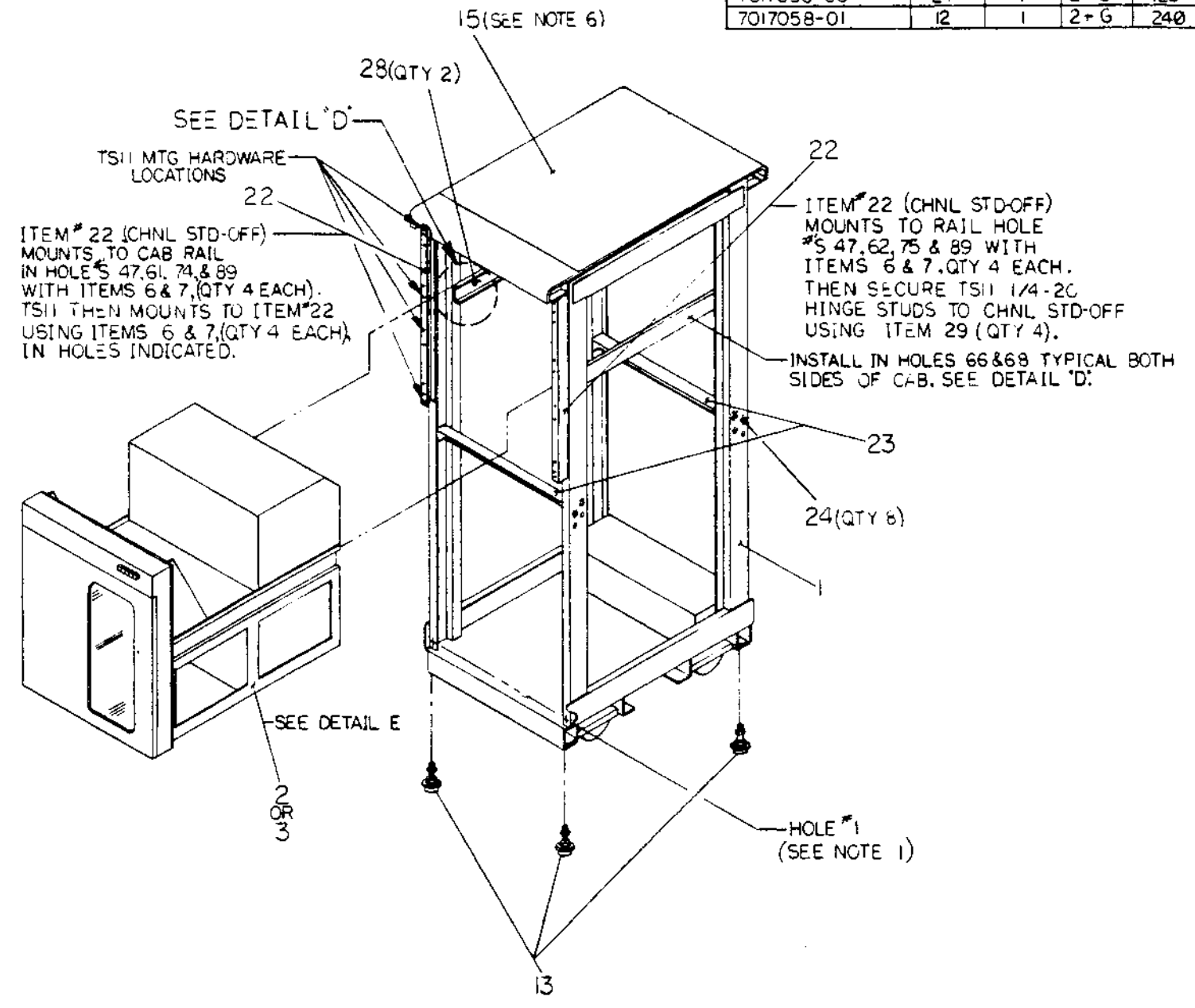
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DAD 7017058-0-0

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 LIKE THE P (OPT-Y-D 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).



ITEM # 22 (CHNL STD-OFF) MOUNTS TO CAB RAIL IN HOLES # 47, 61, 74, & 89 WITH ITEMS 6 & 7, (QTY 4 EACH). TSH THEN MOUNTS TO ITEM # 22 USING ITEMS 6 & 7, (QTY 4 EACH) IN HOLES INDICATED.

ITEM # 22 (CHNL STD-OFF) MOUNTS TO RAIL HOLE #S 47, 62, 75 & 89 WITH ITEMS 6 & 7, QTY 4 EACH. THEN SECURE TSH 1/4-20 HINGE STUDS TO CHNL STD-OFF USING ITEM 29 (QTY 4).

INSTALL IN HOLES 66 & 69 TYPICAL BOTH SIDES OF CAB. SEE DETAIL 'D'.

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	OVER	UNDER	
	TO	TO	
APPLICABLE DIMENSION RANGE	0.000	0.000	0.000
SURFACE QUALITY	FINISH		
QUANTITY & VARIATION	THIRD ANGLE PROJECTION		
DO NOT SCALE DRAWING		REMOVE BURRS AND BREAK SHARP CORNERS	
MATERIAL		SEE PARTS LIST	
FINISH		SCALE	

DESIGNED BY H. GREKULA	DATE 15 JUNE 79	TITLE TSII IN H9546 CAB
CHECKED BY F.H. KEYES JR.	DATE 20 OCT 79	DOCUMENT NUMBER DAD 7017058-0-C-D
DRAWN BY R.A. NELSON	DATE 9-7-79	SCALE 1/8" = 1"
REVIEW BY R.A. NELSON	DATE 9-7-79	SHEET 1 OF 2
DATE J. SOUSA	DATE 9-7-79	

DATE	BY	DESCRIPTION
12/15/78	R.A. NELSON	REVISED
12/15/78	R.A. NELSON	REVISED
12/15/78	R.A. NELSON	REVISED
12/15/78	R.A. NELSON	REVISED
12/15/78	R.A. NELSON	REVISED
12/15/78	R.A. NELSON	REVISED
12/15/78	R.A. NELSON	REVISED
12/15/78	R.A. NELSON	REVISED
12/15/78	R.A. NELSON	REVISED
12/15/78	R.A. NELSON	REVISED

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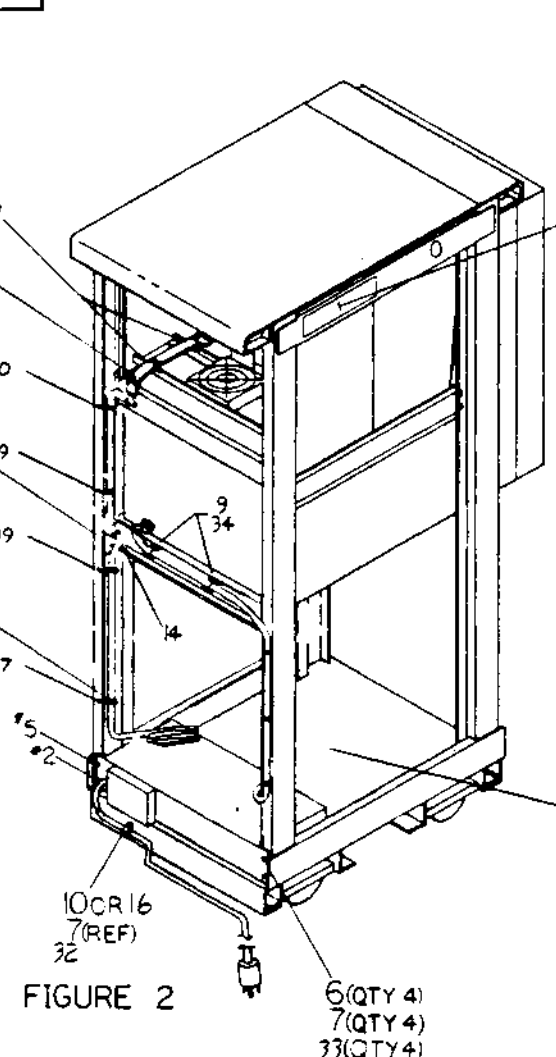


FIGURE 2

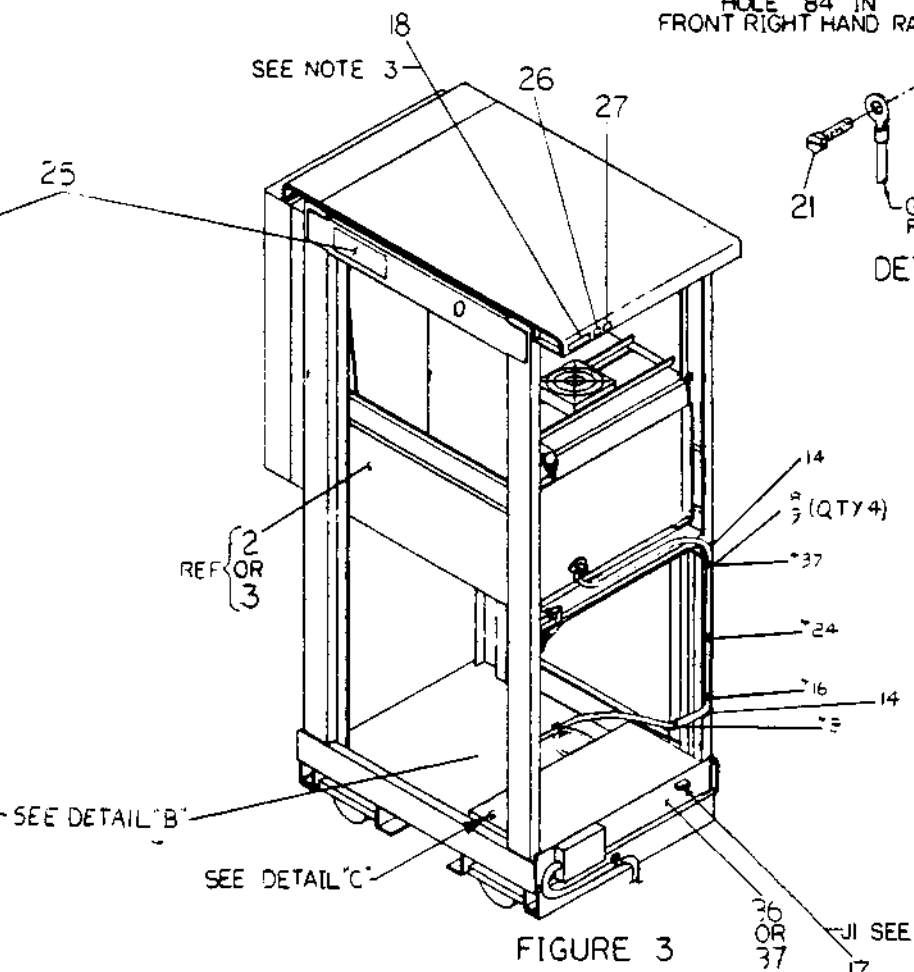
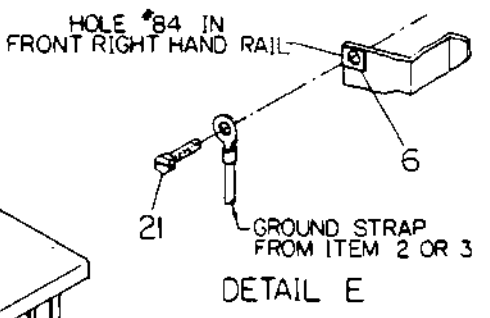
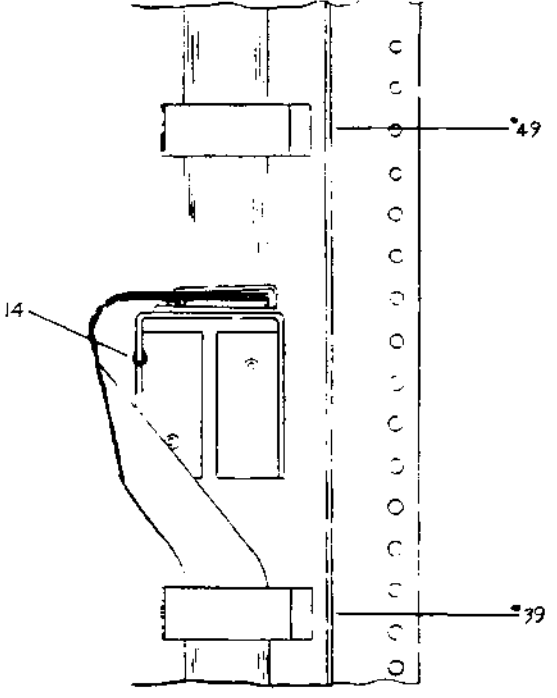


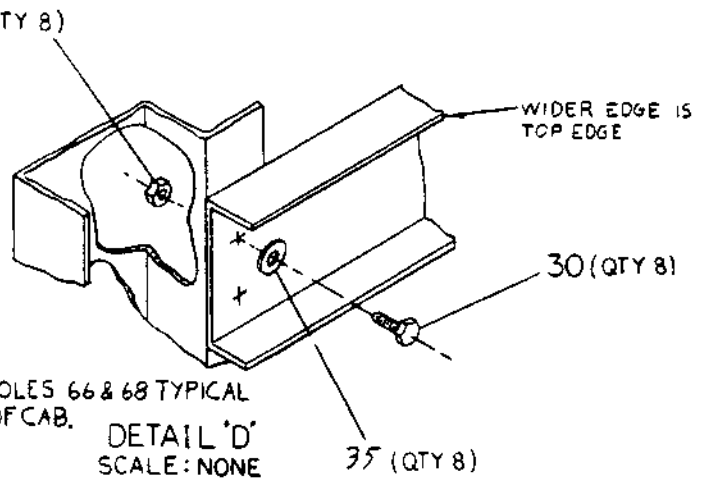
FIGURE 3



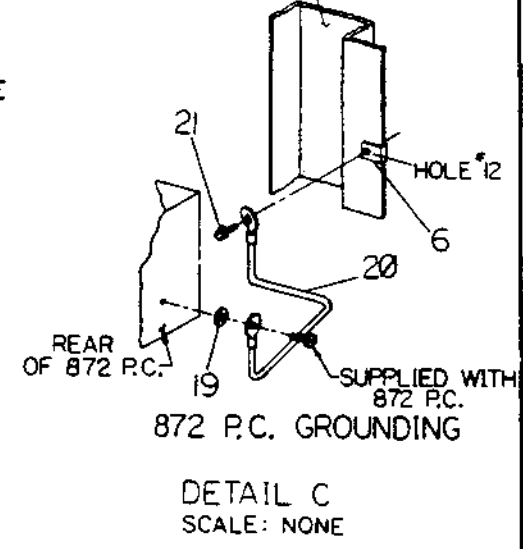
DETAIL E



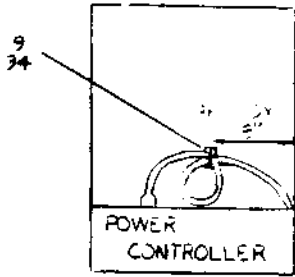
DETAIL A SCALE: NONE



DETAIL 'D' SCALE: NONE



DETAIL C SCALE: NONE



DETAIL B SCALE: NONE

NOTE: CABLE MUST REACH ALL RECEPTICLES ON BACK OF POWER CONTROLLER

TOP VIEW OF BASE TO LOCATE CABLE & CABLE TIE

REVISIONS		
CHK	CHANGE NO.	REV.

DAD 7017058-0-0

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-D	*** 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 DOMF 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	DIGITALL				
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				
DRN	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]	MFG.ENG.:	J. SOUZA	DATE: 14-SEP-79					
				ASSEMBLY NUMBER:	B-AD-7017058-0-0	TOP DOCUMENT NUMBER:	B-DD-7017058-0-0	FILE NAME:	Z0929D.FLS	EDIT #	25

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LAUTOMATED BY PRTLST.3L(36)

PARTS LIST

SHEET A2 OF A2

2

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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 B-DD-M7982-0
 D-UA-M7982-0-0*
 D-CS-M7982-0-1
 K-PL-M7982-0-DBP
 MP848

UNIT VARIATIONS COVERED BY THIS PRINT SET
TS11-AA
TS11-AB

TS11-A
**Field Maintenance
 Print Set**

**Digital Equipment
 Corporation**
 PRINT SET ORDER
 NO. MP00849

REVISIONS	REV.												<div style="border: 1px solid black; padding: 2px; display: inline-block;">digital</div>
	CHG. NO.			USED ON OPTION/MODEL	DRN.	DATE	TITLE:						
	DATE			TS11	G. Marini	3/20/79	FIELD MAINTENANCE PRINT SET (TS11-A)						
					CHK'D	DATE	SIZE	CODE	NUMBER		REV.		
					<i>[Signature]</i>	7/28/79	B	TC	TS11-A-01				
					PROJ. ENG.	DATE	DIST.						
					<i>M. Lucini</i>	7/19/79							
				FIELD SERV.	DATE								
			SHEET 1 OF 1	<i>S. Loukiss</i>	7/19/79								

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DRAWING DIRECTORY

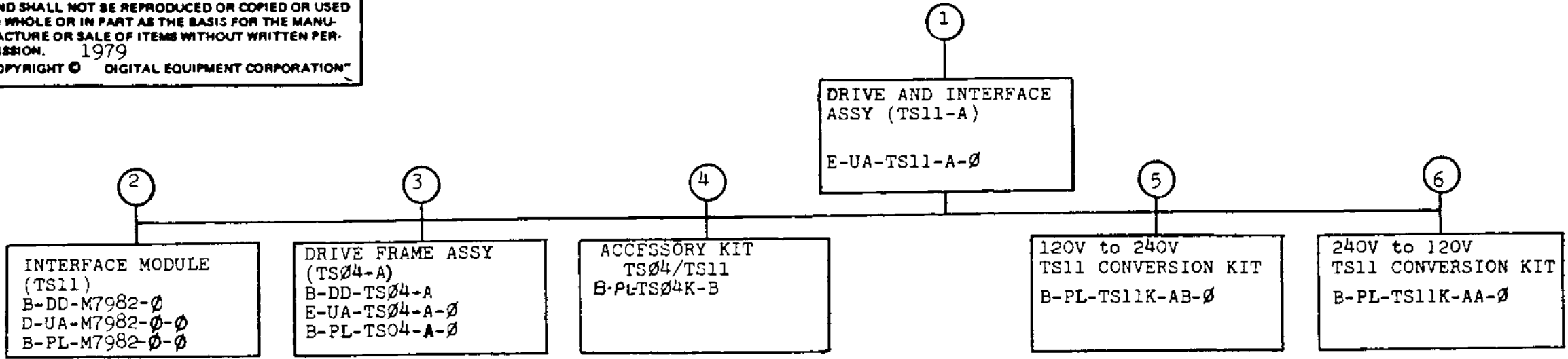
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FOR TABLE OF CONTENTS LISTING REFER TO DRAWING NO. B-TC-TS11-A-01

UNIT VARIATIONS	
VAR	TITLE
TS11-AA	DRIVE AND INTERFACE ASSY (TS11-A) 120V
TS11-AB	DRIVE AND INTERFACE ASSY (TS11-A) 240V

REVISIONS	REV.	USED ON OPTION/MODEL		DRN.	DATE	TITLE	digital		
	CHANGE NO.	TS11-B	G. Marini	3/20/79	DRAWING DIRECTORY (TS11-A)				
	CHK	TS11-D	CHK'D.	DATE					
			<i>Robert Hamblby</i>	7/18/79					
		PROJ. ENG.	DATE			SIZE	CODE	NUMBER	REV
		<i>M. Cucina</i>	7/19/79			B	DD	TS11-A	
		PROD.	DATE			DIST.			
		<i>T. Wing Lt</i>	7/18/79						

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DIGITAL EQUIPMENT CORPORATION PARTS LIST

QUANTITY / VARIATION

NOTES: INSTALL CABLE (ITEM #3) TO CONN-
J4MB FOUND ON MOTHER BD
(PART OF TS04-A) AND TO CONN FOUND ON
M7982-0 INTERFACE MODULE (ITEM #4)

MADE BY G. Marini DATE 3-12-79	CHECKED <i>Thompson</i> DATE 7/18/79	SECTION
ENG <i>M. Cucin</i> DATE 7/19/79	PROD <i>T. Wright</i> DATE 7/18/79	ISSUED SECTION

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	TS11-AA (120V)	TS11-AB (240V)																REF DESIGNATION	
1	E-UA-TS04-A-0	TS04-AA	DRIVE AND FRAME ASSY	1	---																	
2	E-UA-TS04-A-0	TS04-AB	DRIVE AND FRAME ASSY	---	1																	
3	D-1A-7014094-0-0	7014094-ME	CABLE 25' (INTERFACE CABLE)	1	1																	
4	E-UA-M7982-0-0	M7982-0	INTERFACE MODULE (TS11)	1	1																	
5	B-PL-TS11K-AA-0	TS11K-AA	240V to 120V TS11 CONVERSION KIT	---	REF																	
6	B-PL-TS11K-AB-0	TS11K-AB	120V to 240V TS11 CONVERSION KIT	REF	---																	
7	B-PL-TS04K-B-0	TS04K-B	ACCESSORY KIT TS04/TS11	1	1																	
8	A-PS-3612063-0-0	3612063-00	TAG..UL (RECOGNIZED)	1	1																	
9	A-PS-3613210-0-0	3613210-00	LABEL (IDENTIFICATION)	1	1																	
10	A-PS-3616410-0-0	3616410-00	DIGITAL TS-11 LOGO	1	1																	

E.C.O. NO. ML001

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		SHEET 1 OF 1	INSERTION PARTS LIST DATA BASE REV			

REV. A
 NUMBER M7982-0
 SIZE B
 CODE DD

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS	
				REV.	DATE
B-DD-M7982-0	1		M7982 DRAWING DIRECTORY	* A	
D-A-M7982-0-0	6		M7982 UNIT ASSEMBLY	C D	
K-PL-M7982-0-DBP	-		M7982 PARTS LIST DATA BASE	C D	
D-CS-M7982-0-1	12		UNIBUS TO SERIAL BUS CONTROLLER	C D	
D-FD-M7982-0-2	3		M7982 CONTROL FLOWS	* *	
D-TD-M7982-0-3	3		M7982 TIMING DIAGRAMS	* *	
A-SP-M7982-0-4	18		M7982 ENGINEERING SPEC.	* *	
D-BD-M7982-0-5	1		M7982 BLOCK DIAGRAM	* *	
D-MD-5012174-0/0	6		M7982 DRILL & ETCH DWG.	C C	
K-PC-M7982-0-DBC	-		M7982 P.C. DESIGN DATA BASE	A A	
		5012174	M7982 ETCHED CIRCUIT BOARD	D D	

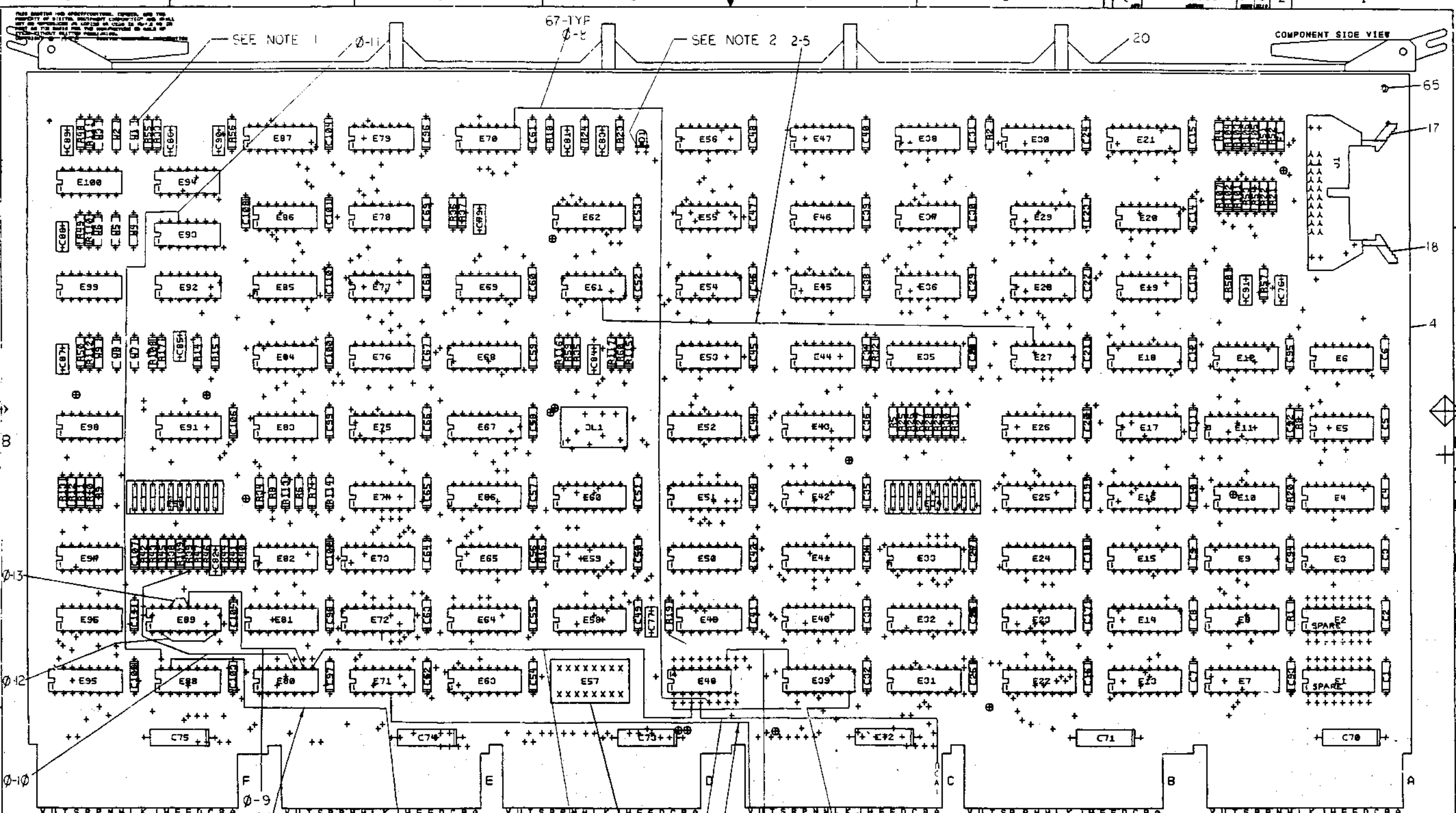
NOTES:

REVISIONS		
DATE	CHG NO.	REV.
11-79	ML002	A

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USED ON OPTION/MODEL	DRN. R. TREMBLAY	2/21/78	TITLE
TS11	CHK'D R. TREMBLAY	2/22/78	UNIBUS TO SERIAL BUS CONTROLLER
	ENG. Paul Kingdon	1/8/79	SIZE CODE
	PROD. Pete Barton	1-17-79	B DD
			NUMBER
			M7982-0
			REV.
			A
			SHEET 1 OF 1



NOTES: 1. R101 THRU R108 AND R110 THRU R117 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.

CHANGE NO	REV	DATE	BY	CHK'D

ETCH REV. D-P2
P.C. DESIGN DATA BASE REV. DL2 & DM2

SIGNATURES	DATE	
DRN. <i>[Signature]</i>	5/2/79	digitall
CHK'D. <i>[Signature]</i>	7/1/79	
ENG. <i>[Signature]</i>	7/1/79	TITLE UNIBUS TO SERIAL BUS CONTROLLER
PROJ. <i>[Signature]</i>	7/1/79	
SCALE 2/1		SIZE CODE NUMBER
SHT. 1 OF 6		0 UA M7982-0-0
NEXT HIGHER REV. B-00-M7982-0		REV D

L1

7

6

5

4

3

2 DUA M7982-0-0

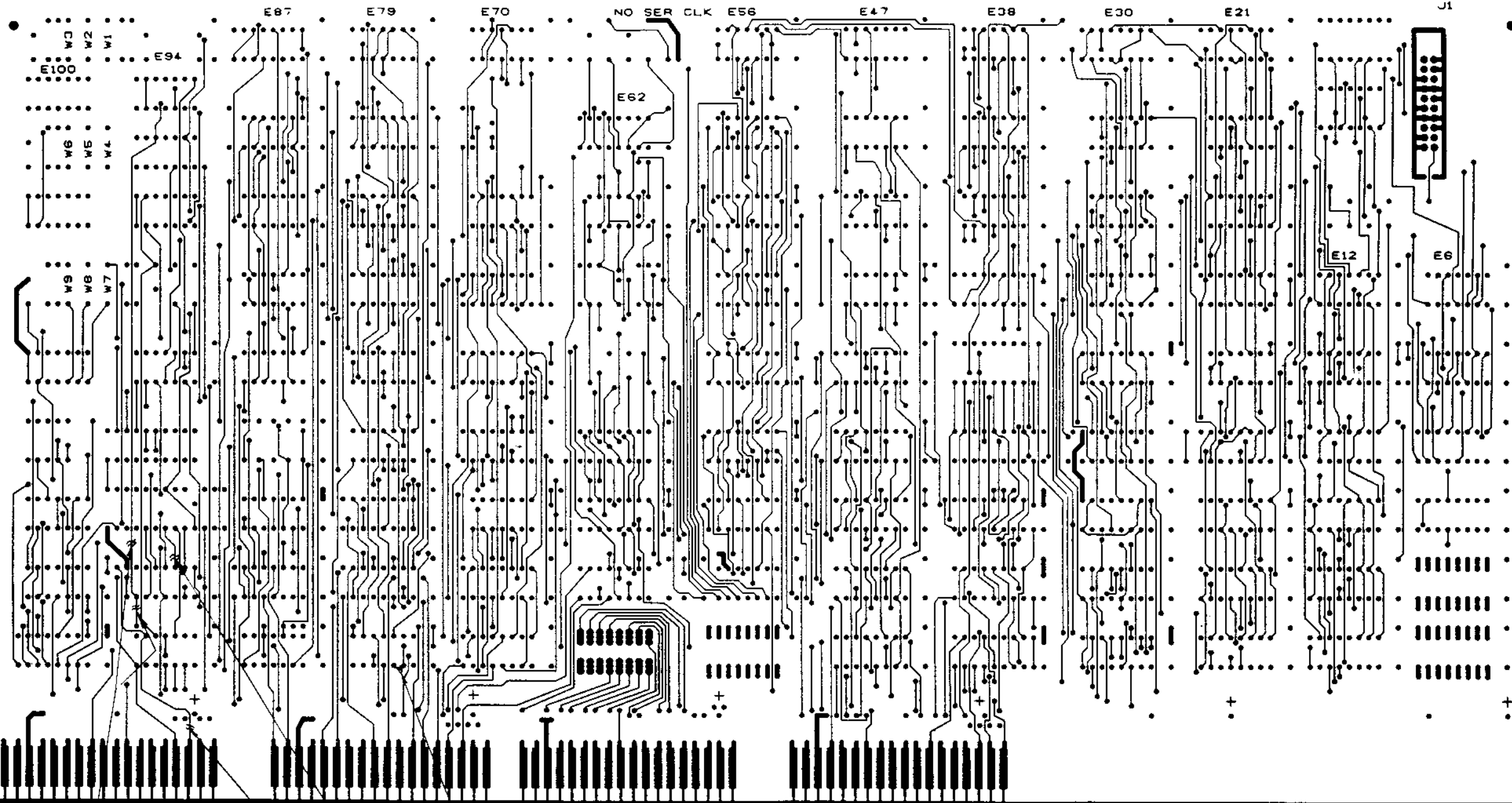
1

M7982 50121740-P2 LAYER 1

CS*ABCDEFGHIJKLMNPRS

SIDE 1

digital J1



-1
-2-2
-1
-2-1
+
+
+
+
+
+

A

A

8

7

6

5

4

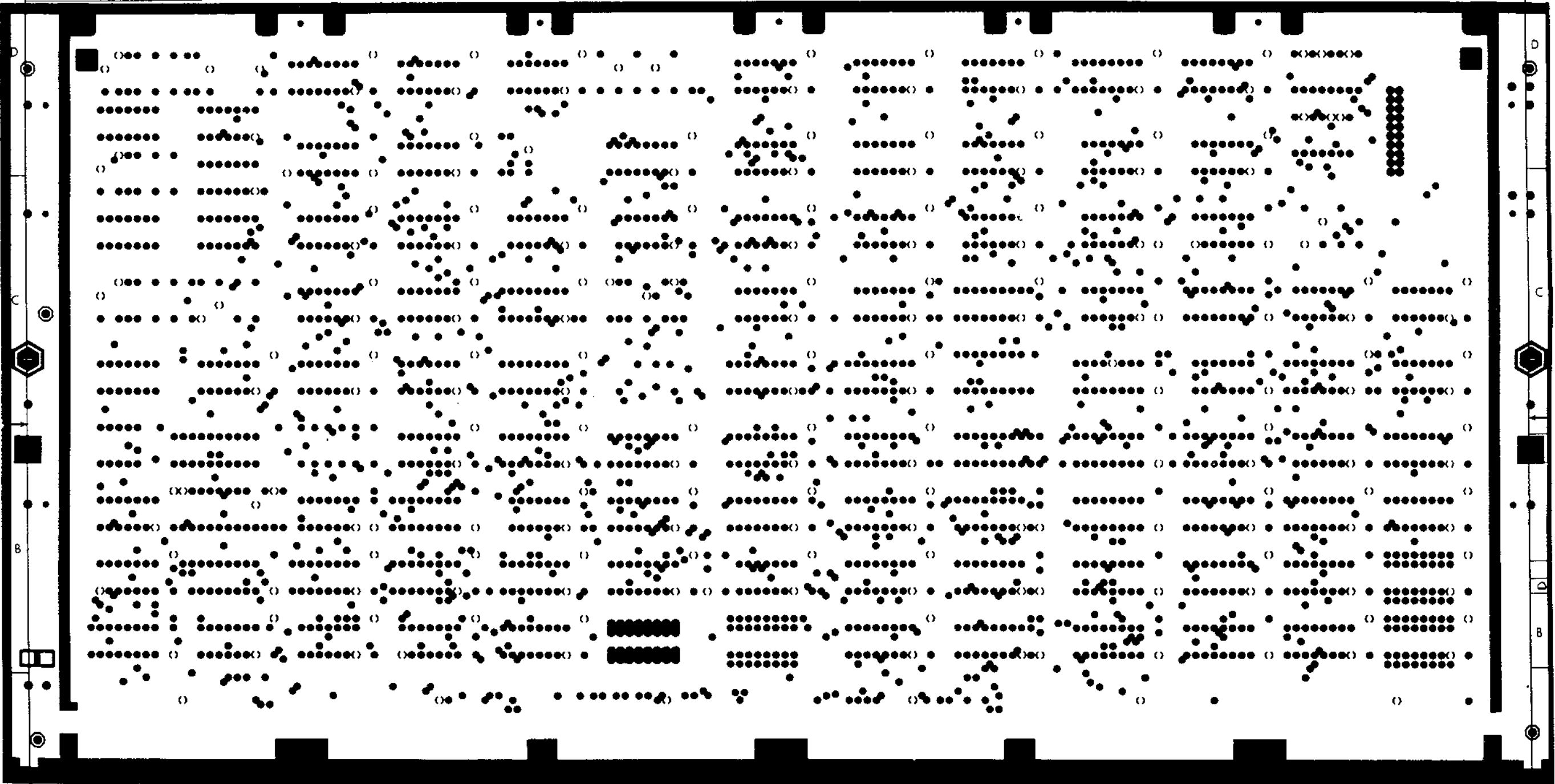
3

2

1

UNIBUS TO SERIAL BUS CONTROLLER

2	1	2	6	D	UA	M7982-0-0	D
---	---	---	---	---	----	-----------	---

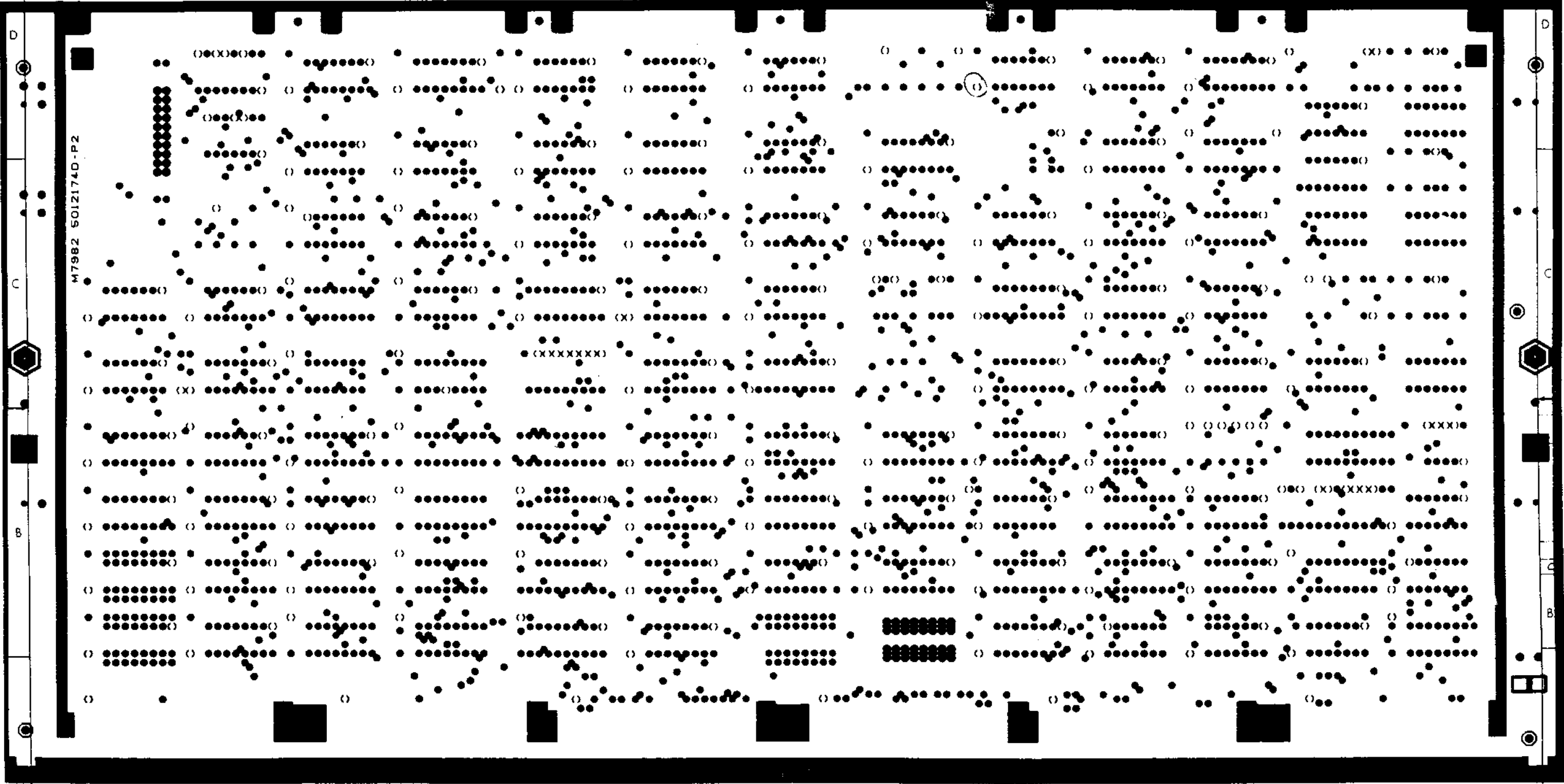


8 7 6 5 4 3 2 1

DUA M7982-0-0 D 2

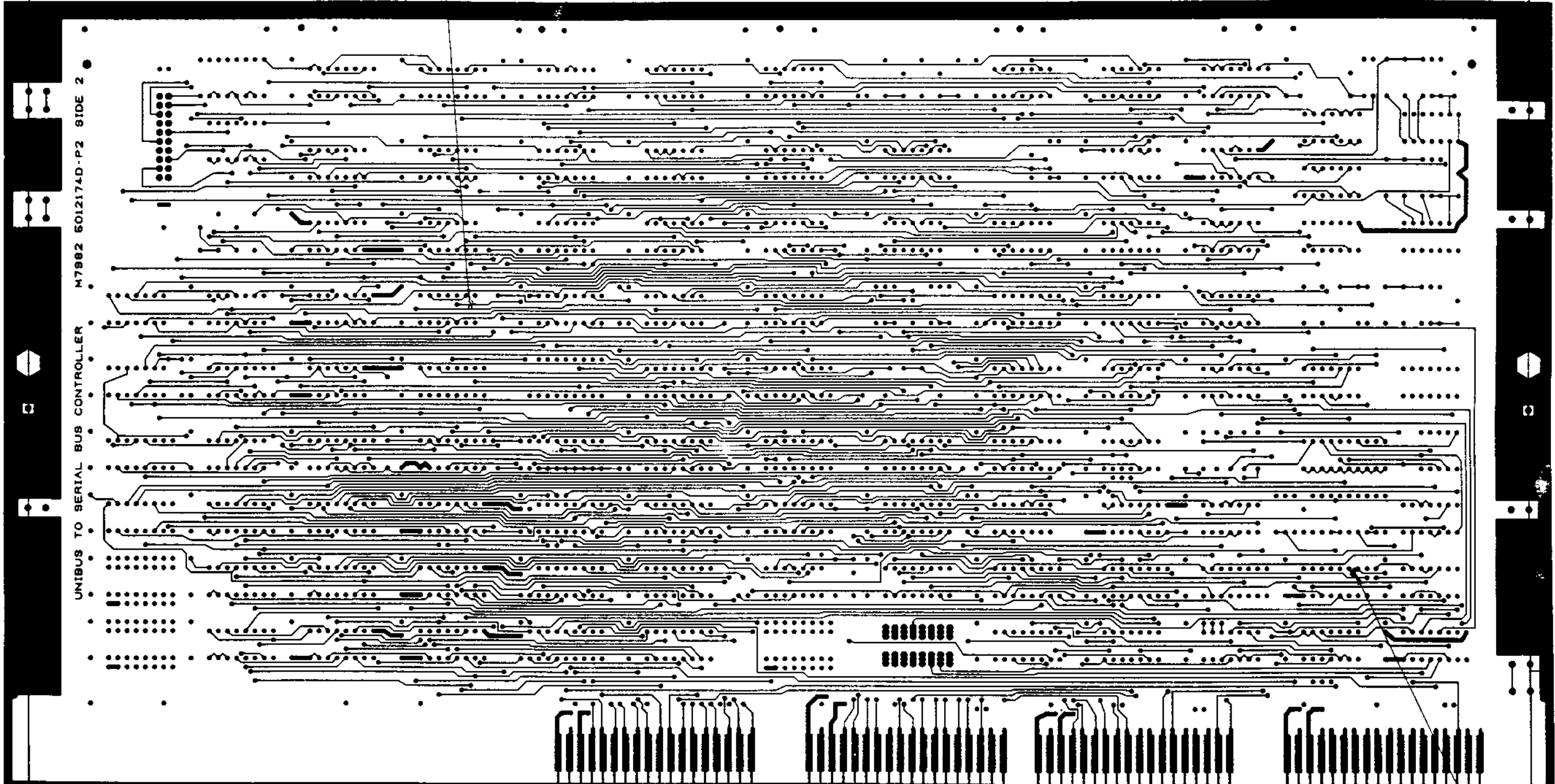
E 834A J

M7982 5012174D-P2



UNIBUS TO SERIAL BUS CONTROLLER				DUA	M7982-0-0	D
2	1	4	6			

8 7 6 5 4 3 2 1



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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 E80-8.
- Ø-7. ADD WIRE FROM E48-4 TO CA1.
- Ø-8. ADD WIRE FROM E48-5 TO E70-8.
- Ø-9. ADD WIRE FROM E89-12 TO E80-9.
- Ø-10. ADD WIRE FROM E80-10 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:

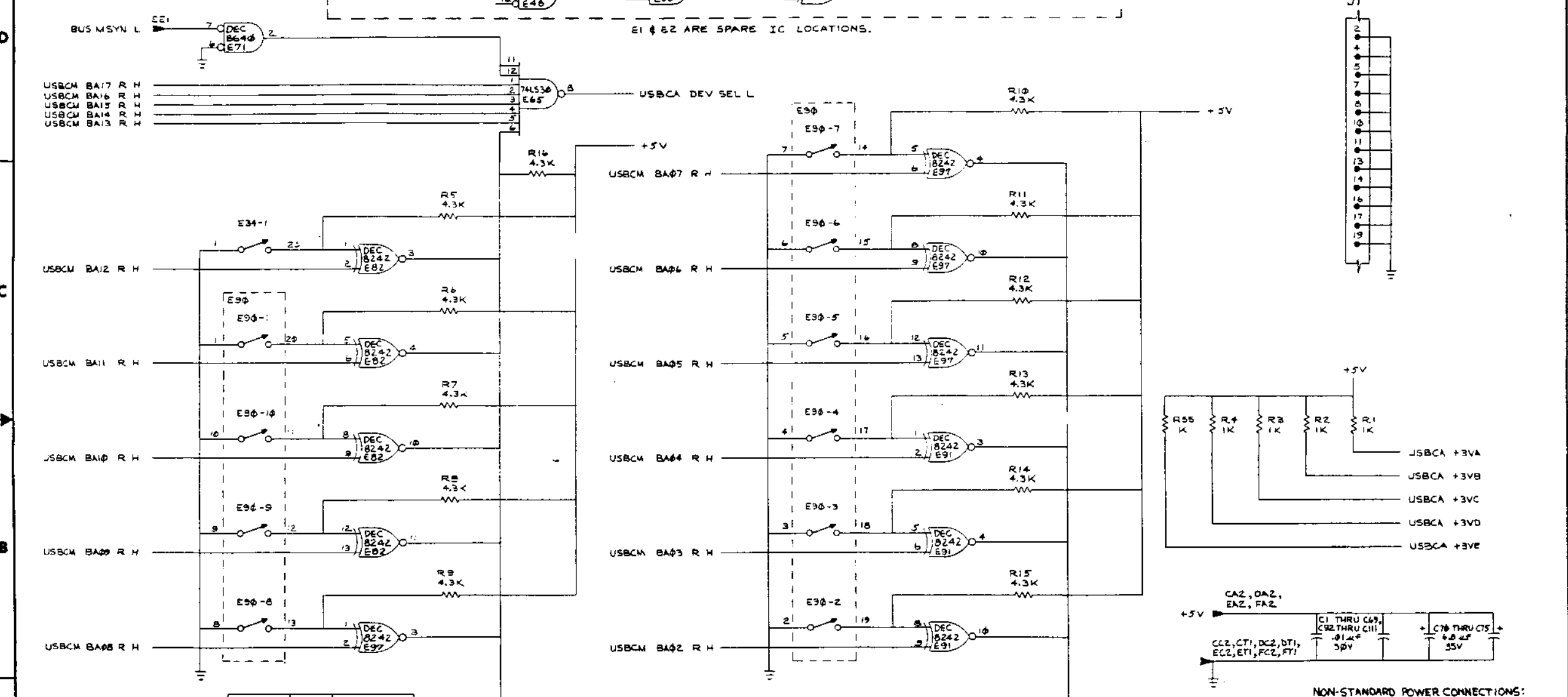
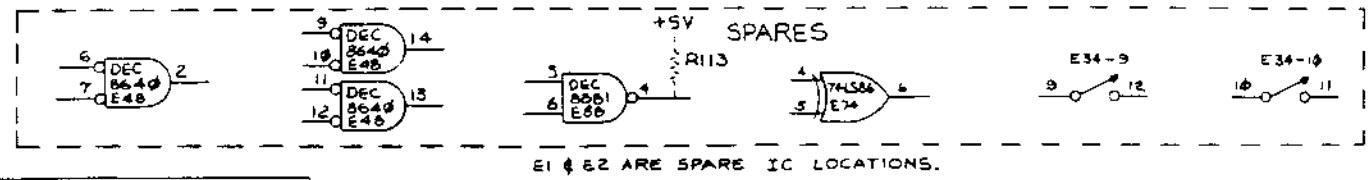
- 2-3. CUT ETCH FROM E27-12 TO GROUND. CUT AT FEEDTHROUGH NEAREST PIN 12. (ETCH FROM PIN 12 TO FEEDTHROUGH RUNS UNDER CHIP.)

WIRE ADDS SIDE 1

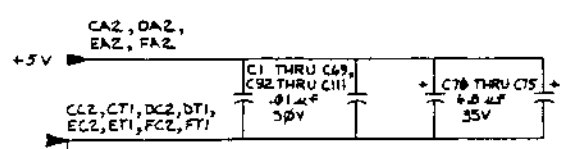
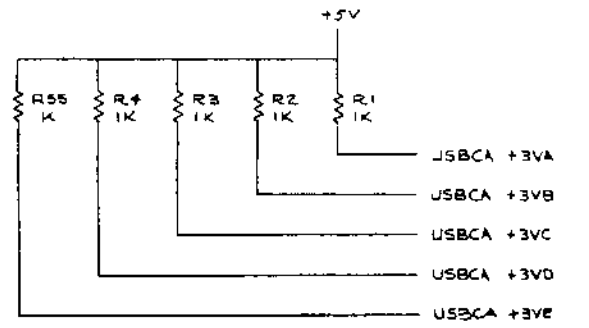
- 2-4. ADD WIRE FROM E71-5 TO CV1.
- 2-5. ADD WIRE FROM E27-12 TO E61-5.
- 2-6. ADD WIRE FROM E88-13 TO EJ1.

REVISIONS		
CHK	CHANGE NO.	REV.

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



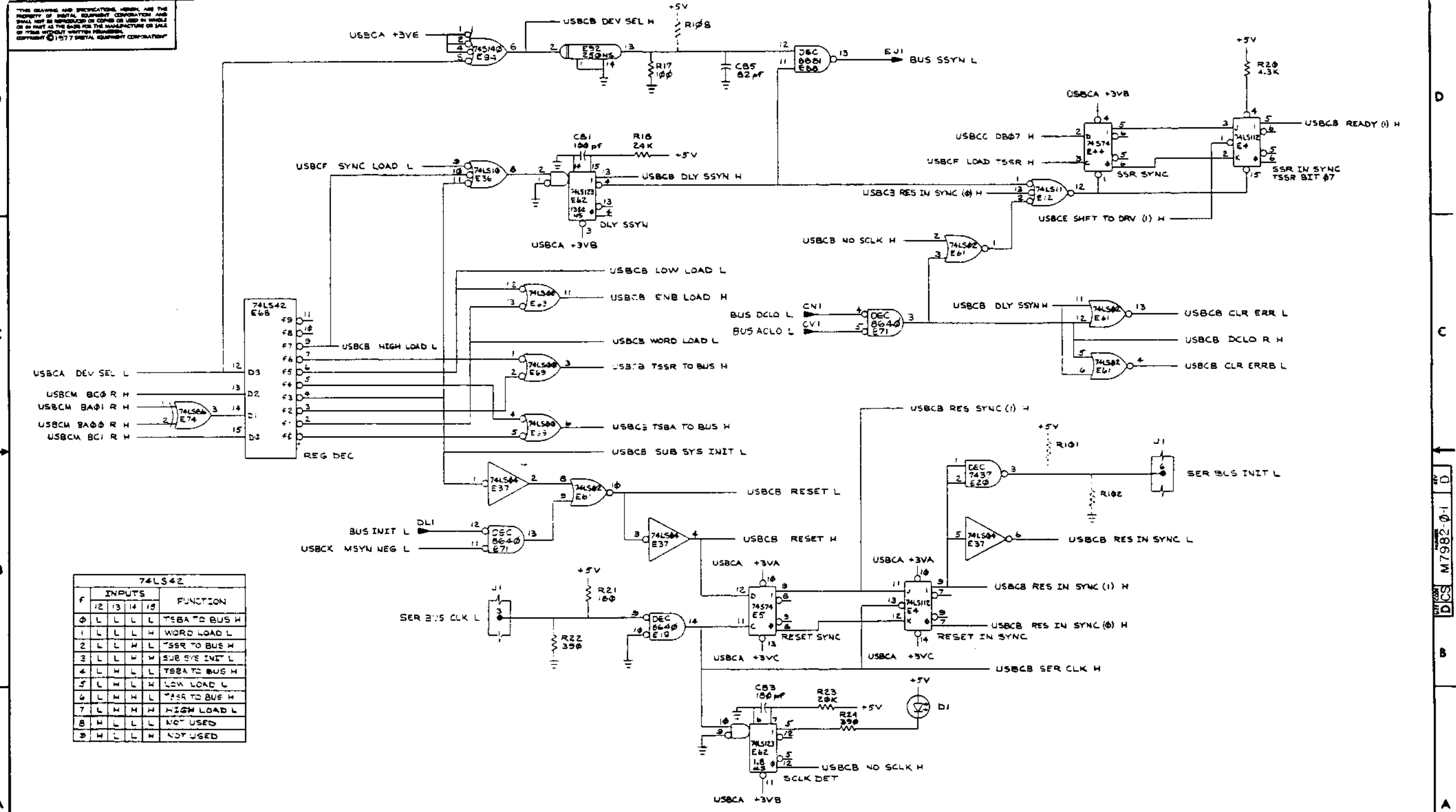
NON-STANDARD POWER CONNECTIONS:

IC TYPE	+5V	GND
DEC8640	8	1
74LS75	5	12

REV	1	DATE	10/1/77
CHK	1	BY	PLM
APP	1	BY	PLM
DES	1	BY	PLM
PROJ	1	BY	PLM
PROD	1	BY	PLM
REV	1	DATE	10/1/77
CHK	1	BY	PLM
APP	1	BY	PLM
DES	1	BY	PLM
PROJ	1	BY	PLM
PROD	1	BY	PLM

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

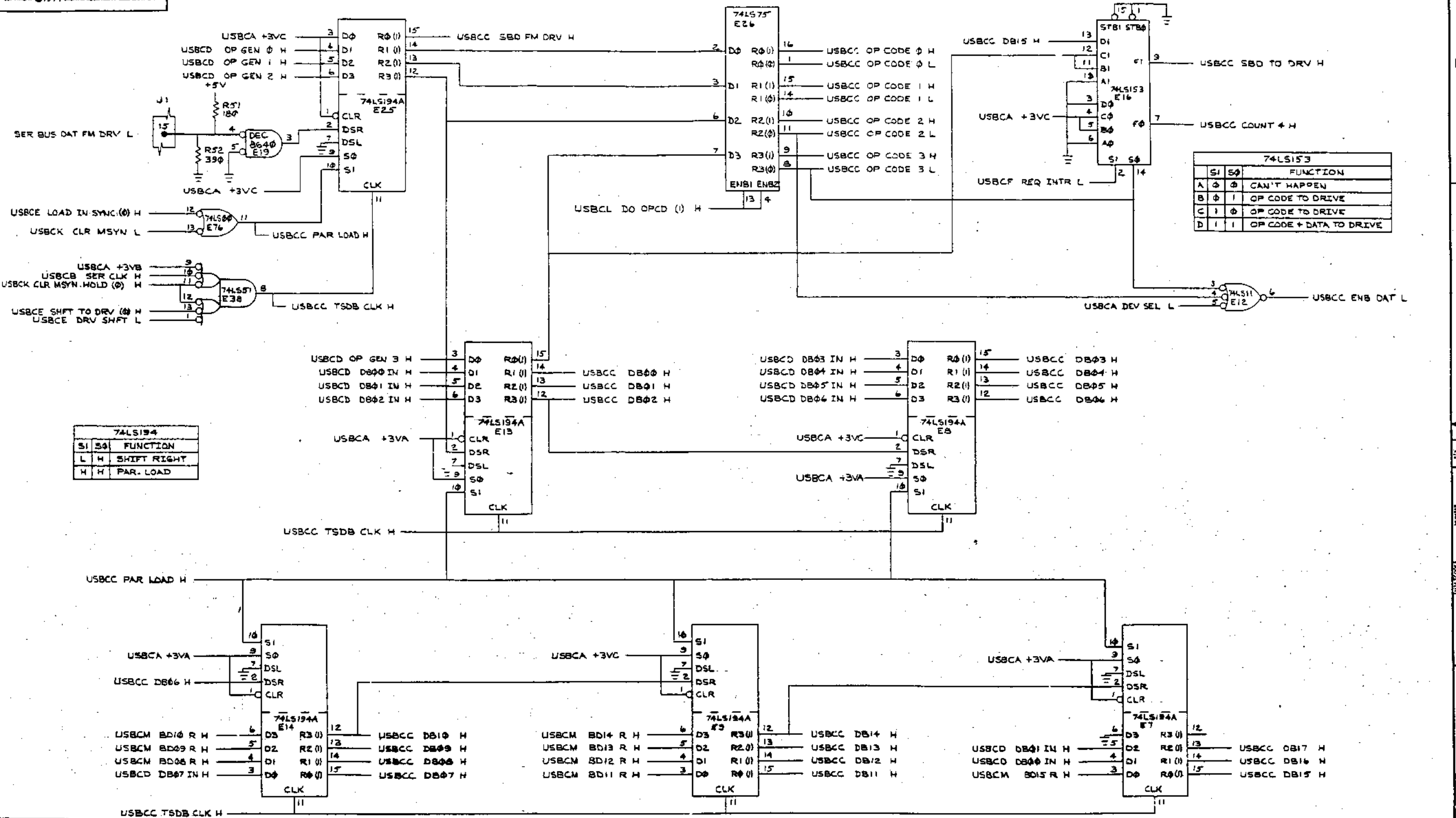
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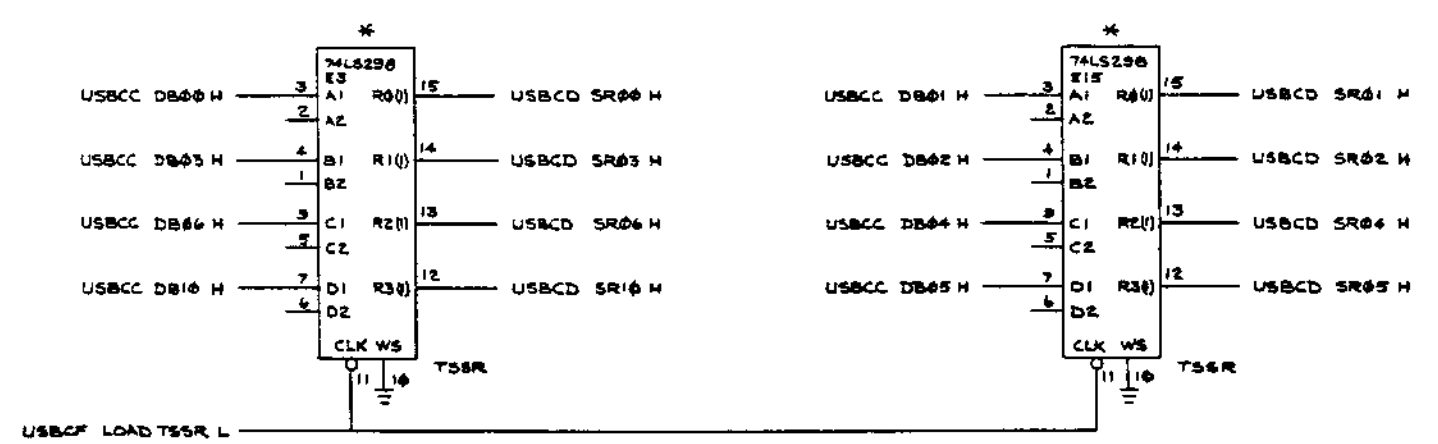
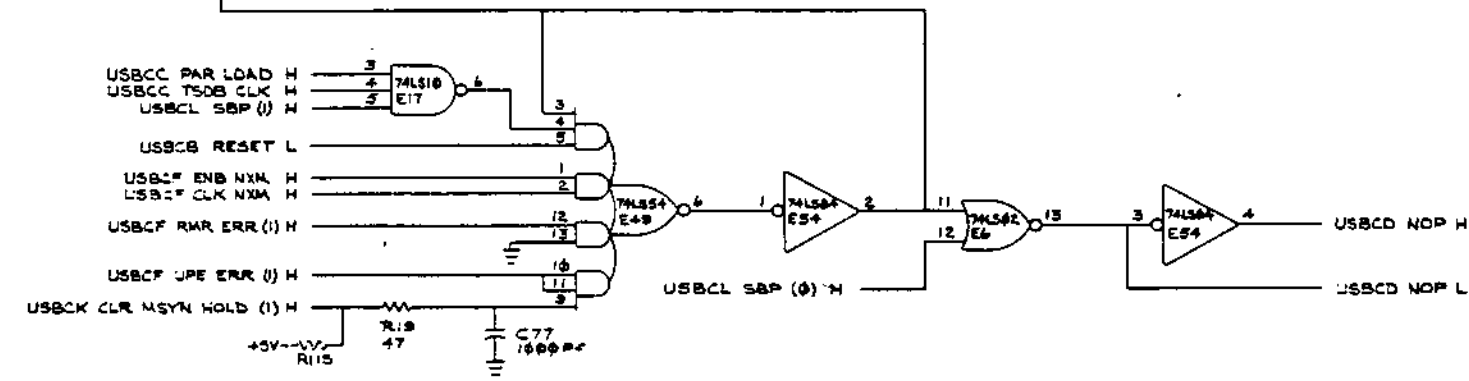
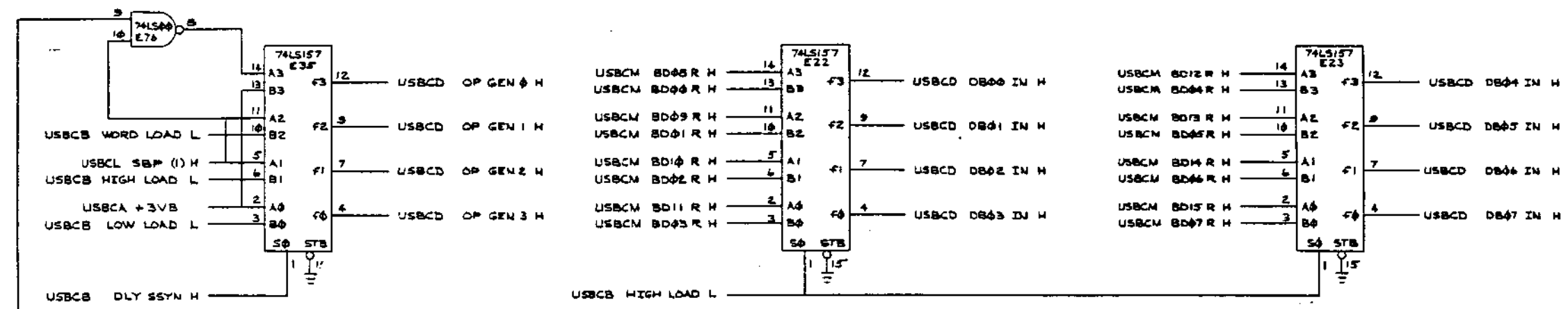
74LS42					
F	INPUTS				FUNCTION
	12	13	14	15	
0	L	L	L	L	TSBA TO BUS H
1	L	L	L	H	WORD LOAD L
2	L	L	H	L	TSSR TO BUS H
3	L	L	H	H	SUB SYS INIT L
4	L	H	L	L	TSBA TO BUS H
5	L	H	L	H	LOW LOAD L
6	L	H	H	L	TSSR TO BUS H
7	L	H	H	H	HIGH LOAD L
8	H	L	L	L	NOT USED
9	H	L	L	H	NOT USED

REVISIONS		
CHK	CHANGE NO.	REV.

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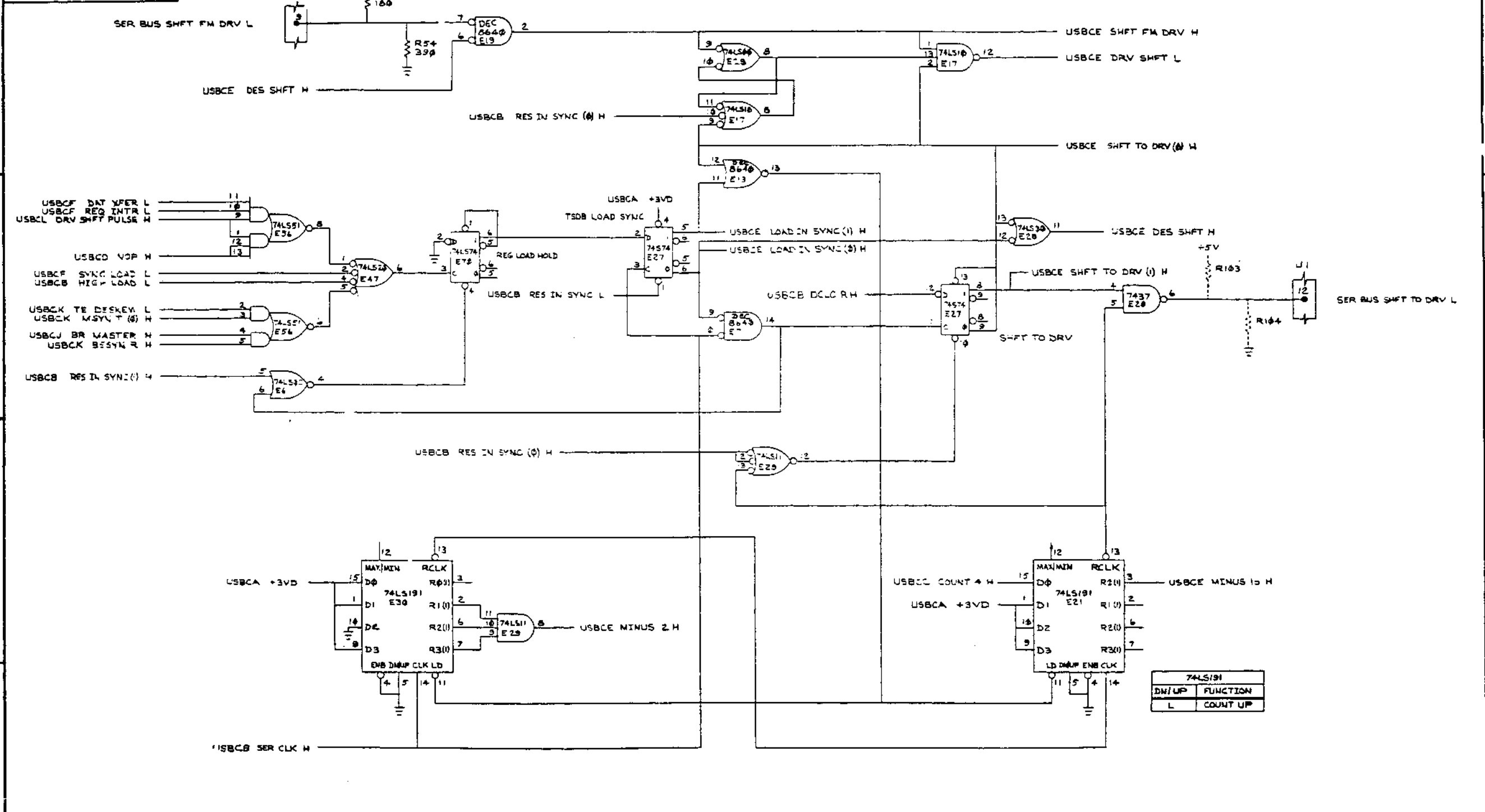
* THESE 6 BITS OF THE STATUS REGISTER ARE FOR SOFTWARE PURPOSES ONLY AND HAVE NO EFFECT ON THE TS11. THEIR MEANING WILL VARY ACCORDING TO THE TYPE OF DRIVE USED.

OP CODE GEN, TSDB NUX, TSSR <00:06,10> SPC SLOT

REVISIONS		
CHG	CHANGE NO.	REV.

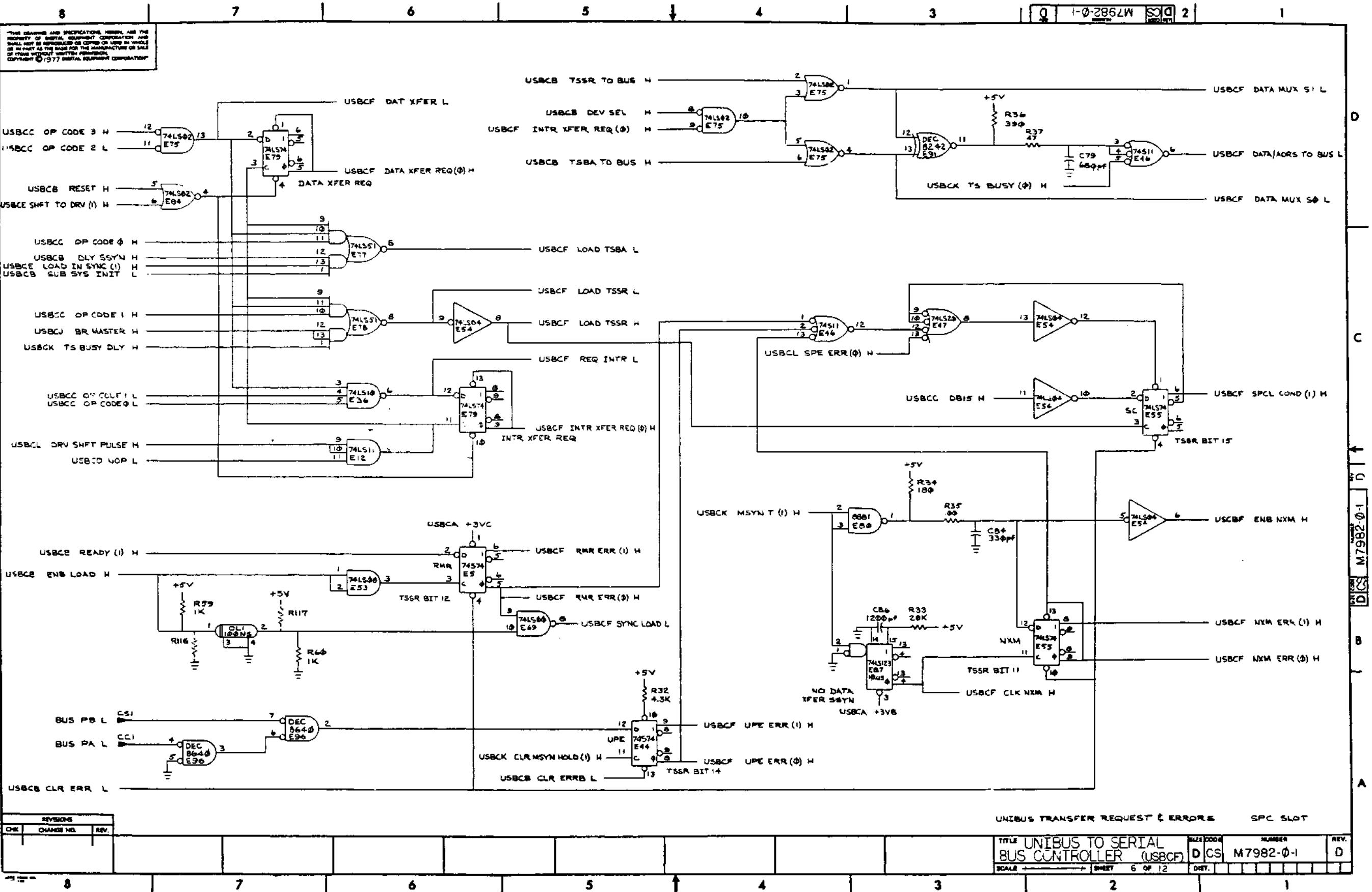
TITLE	UNIBUS TO SERIAL BUS CONTROLLER (USBCD)	DIGITAL EQUIPMENT CORPORATION	NUMBER	M7982-0-1	REV.	D
SCALE		SHEET	4 OF 12	DATE		

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74LS191	
DN/UP	FUNCTION
L	COUNT UP

D/CS M7982-01 REV. D

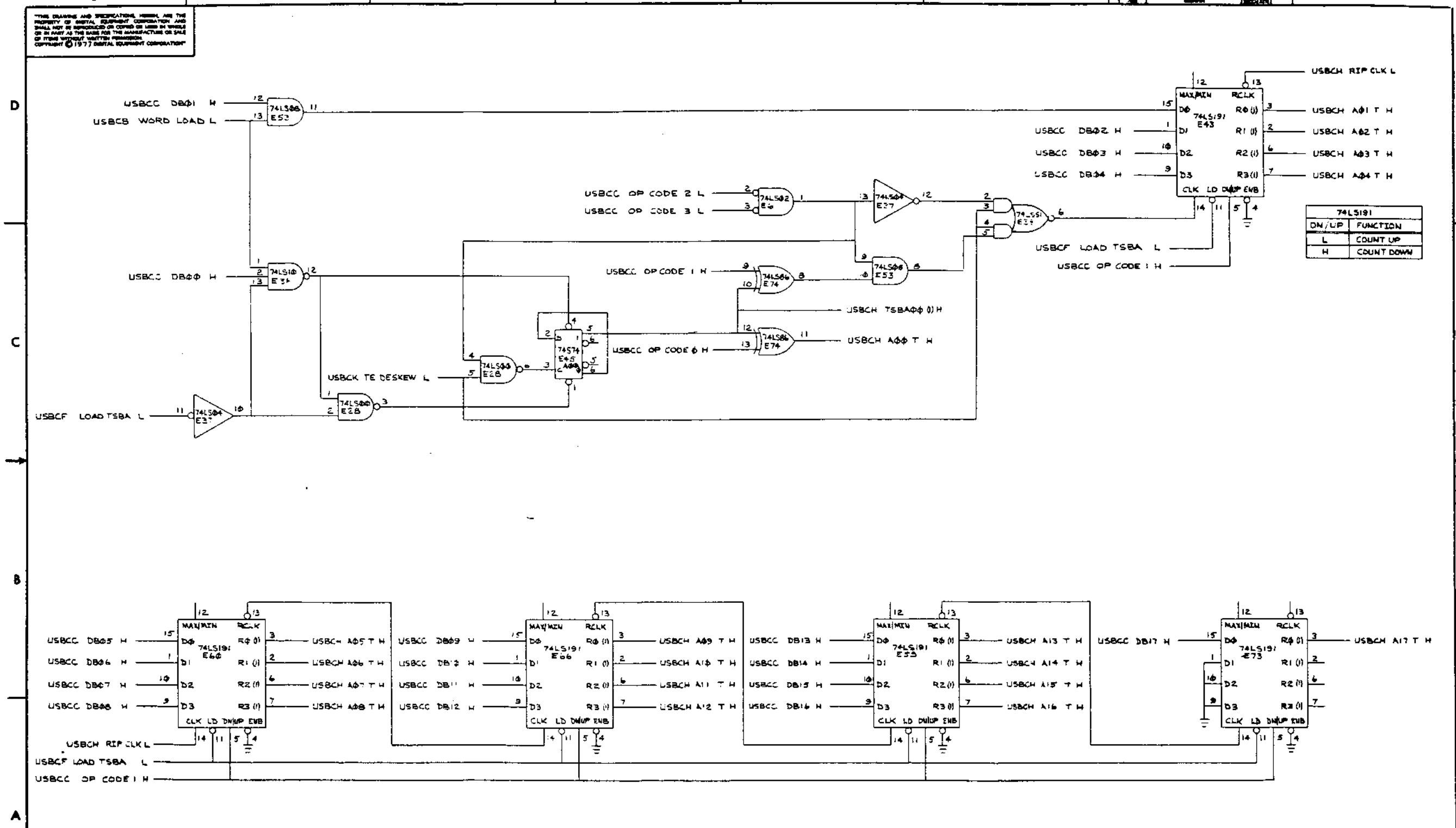


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REVISIONS		
CHK	CHANGE NO.	REV.

UNIBUS TRANSFER REQUEST & ERRORS SPC SLOT		TITLE	SCALE	SHEET	REV.
		UNIBUS TO SERIAL BUS CONTROLLER (USBCF)	1:1	6 OF 12	D
		DCS M7982-0-1			

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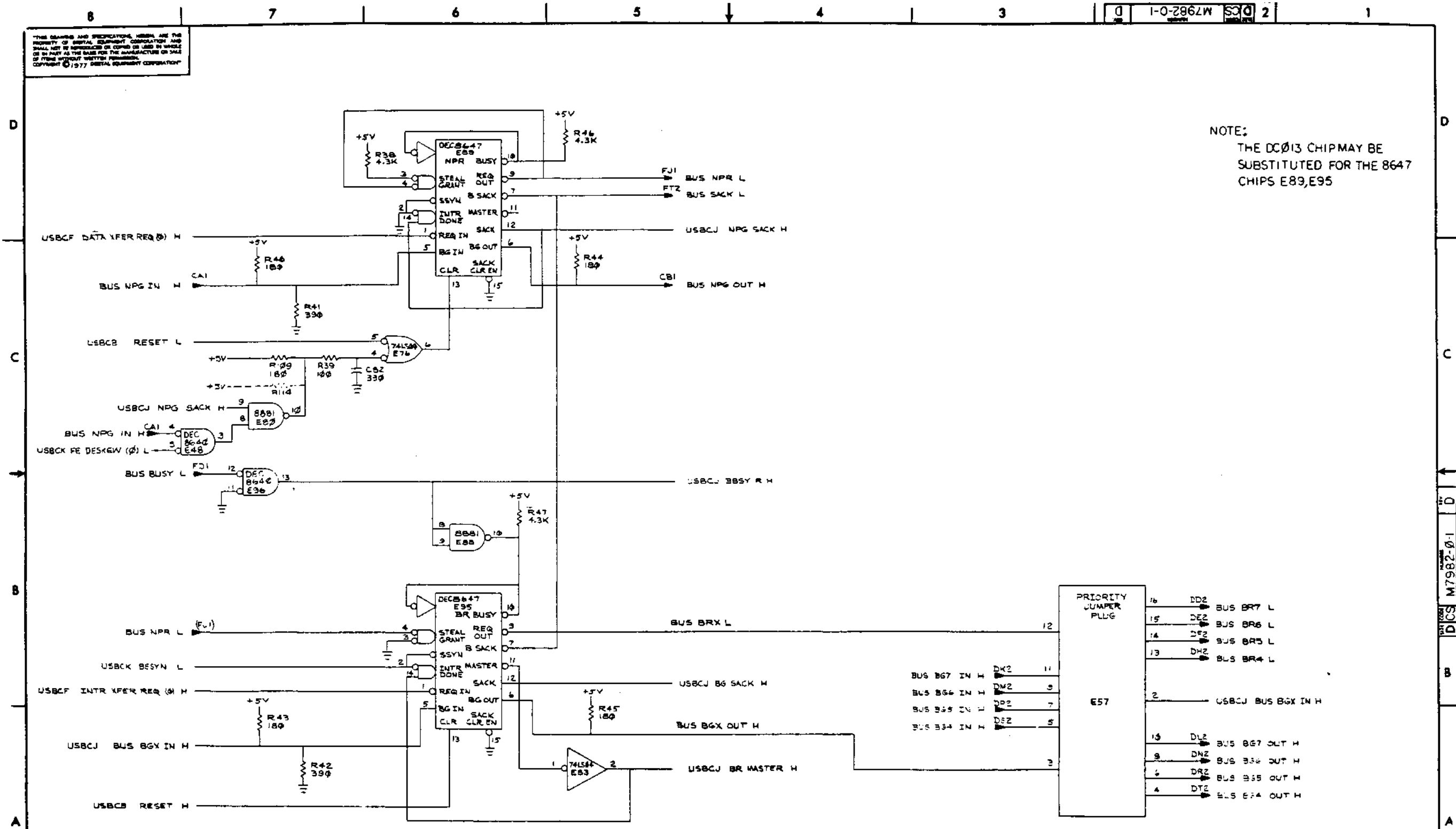
REVISIONS		
CHK	CHANGE NO.	REV.

ADDRESS REG. (TSBA)		SPC SLOT	
TITLE	UNIBUS TO SERIAL BUS CONTROLLER (USBCH)	SIZE CODE	D CS
NUMBER	M7982-01	REV.	D
SCALE	SHEET 7 OF 12	DIST.	

D CS M7982-01 REV D

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



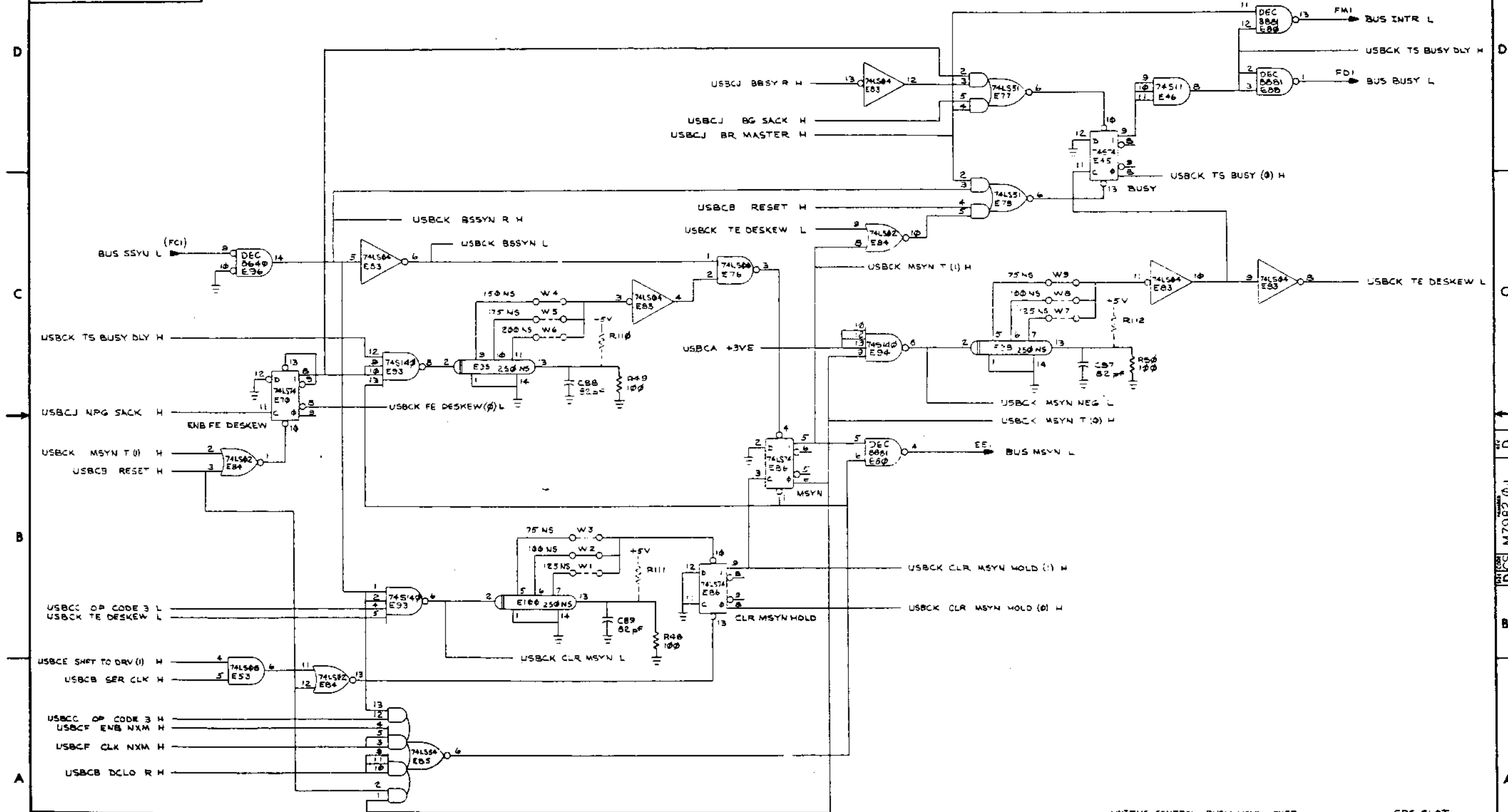
DCS M7982-0-1

REVISIONS		
CHK	CHANGE NO.	REV.

UNIBUS CONTROL, SACK, GRANTS, REQUESTS SPC SLOT

TITLE	UNIBUS TO SERIAL BUS CONTROLLER (USBCJ)	REV. CODE	DCS	NUMBER	M7982-0-1	REV.	D
SCALE		SHEET	8 OF 12	DET.			

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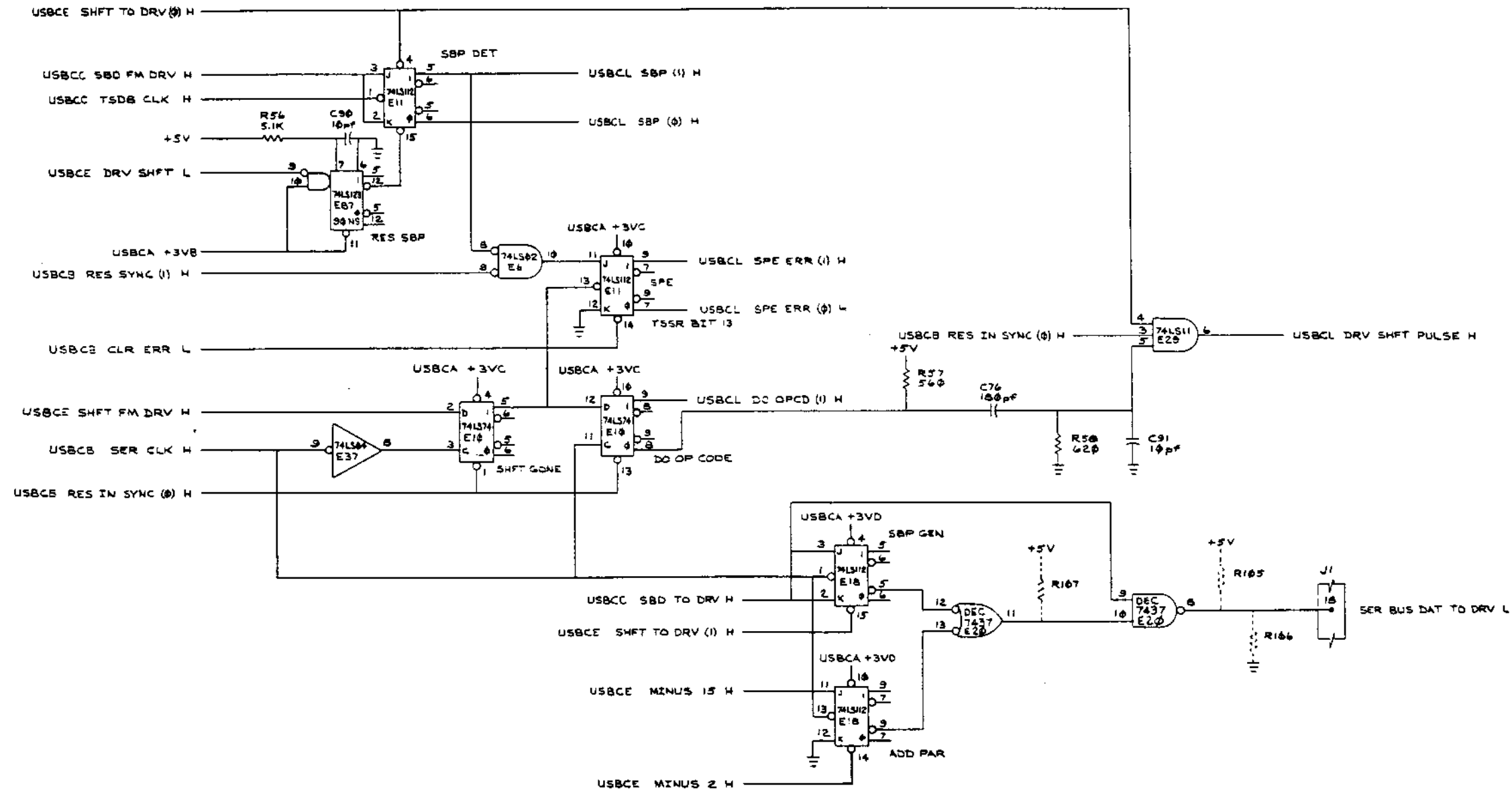
REV. D
D/C S M7982-0-1

REVISIONS		
CHK	CHANGE NO.	REV.

UNIBUS CONTROL, BUSY, MSYN, INTR SPC SLOT

TITLE	UNIBUS TO SERIAL BUS CONTROLLER (USBCK)	SIZE CODE	D/C S	NUMBER	M7982-0-1	REV.	D
SCALE		SHEET	9 OF 12	DWT.			

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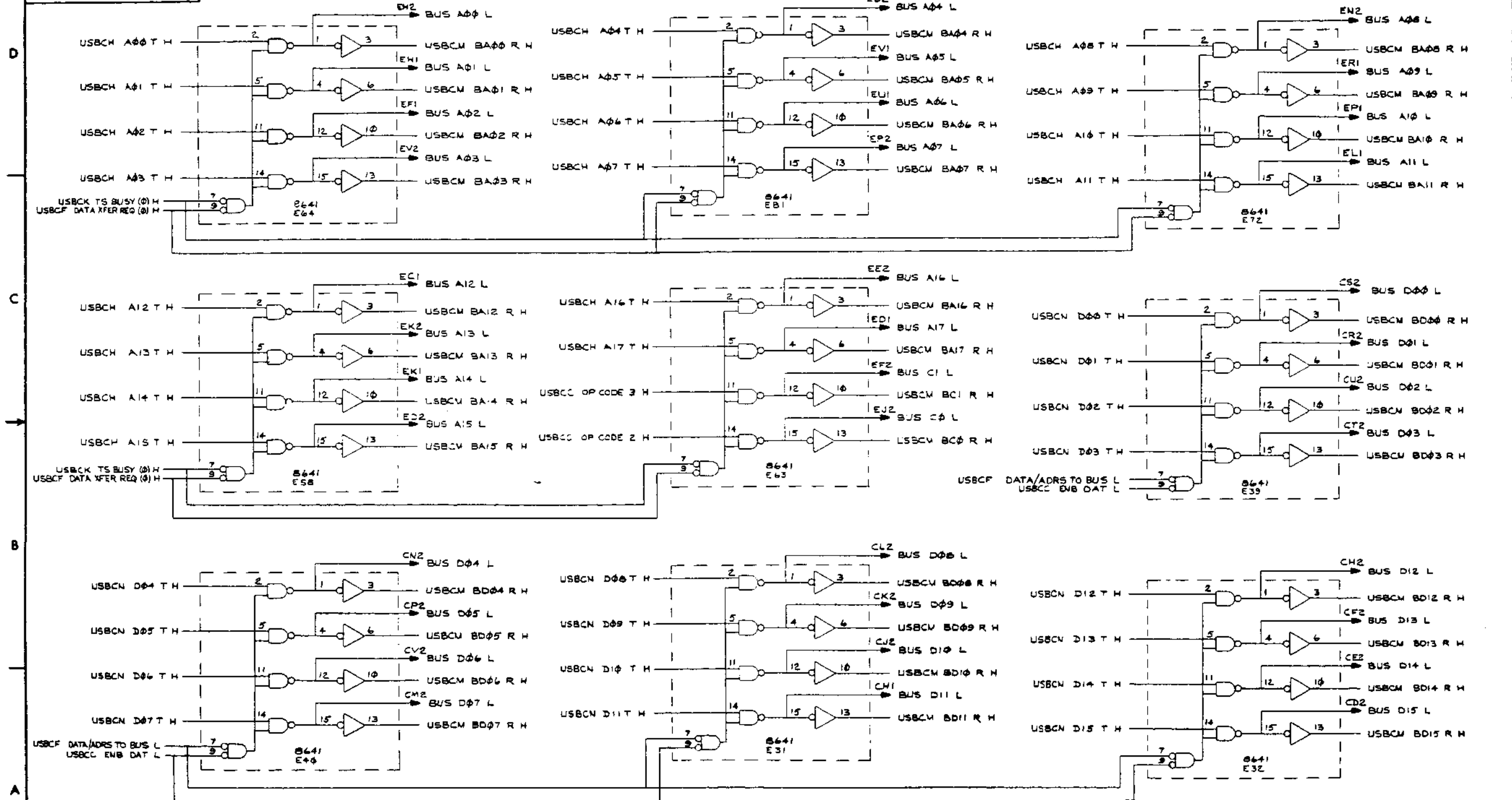


SBP DETECT, GENERATE & ERROR SPC SLOT

REVISIONS		
CHK	CHANGE NO.	REV.

REV D DCS M7982-0-1

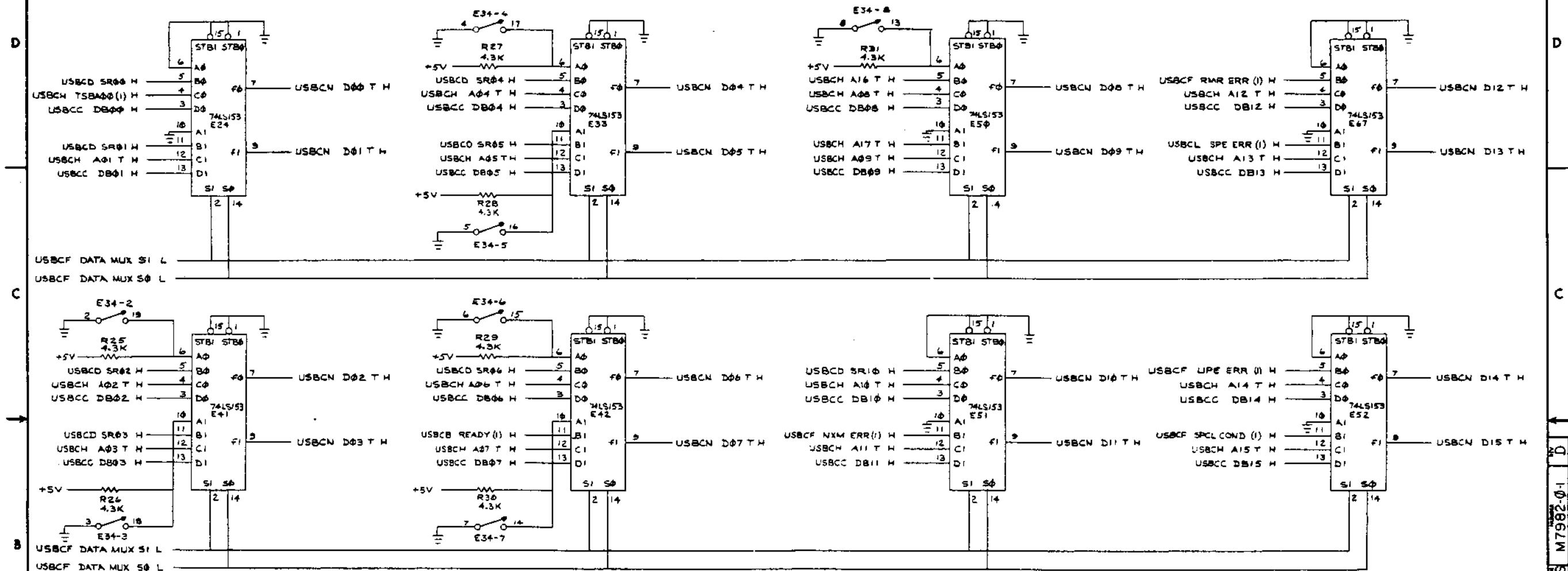
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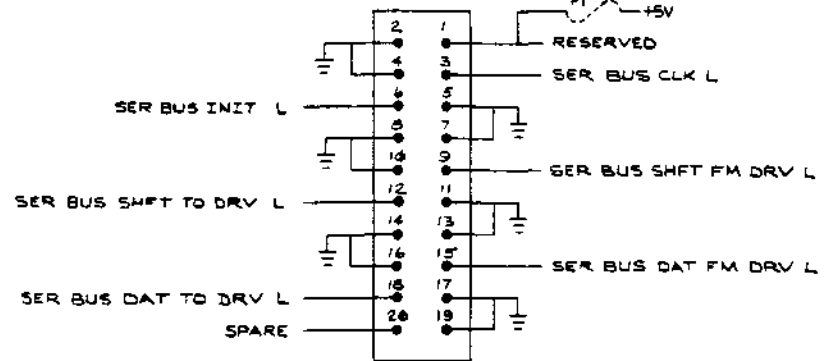
REVISIONS		
CHK	CHANGE NO.	REV.

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-DU-M7982-0-0	DWG DIRECTORY	REF	
4	4	D-ND-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	C77,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	DIGIT A L			
ENG!	ECO NUMBER	REV	SECTION A OF A	CHK'D:	C.CAMPBELL	DATE: 06-DEC-77	TITLE PARTS LIST			
---	INIT	C	SECTION VARIATION INDEX				UNIBUS SERIAL BUS CONTROLLER			
PK	M7982-ML002	D	[A] 00							
			[B]							
			[C]	DES.ENG:	R. BOUCHER	DATE: 17-JUL-78				
			[D]							
			[E]	RESP.ENG.:	R. BOUCHER	DATE: 17-JUL-78	DOCUMENT NUMBER			
			[F]				SIZE	CODE	NUMBER	REV
			[G]							
			[H]	MFG.ENG.:	P. BARTON	DATE: 17-JUL-78	K	FL	M7982-0-DBP	D
			[I]							
			[J]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:	FILE NAME:	EDIT #		
			[K]	D-UA-M7982-0-0		TS11	Z1079D.PLS	20		
			[L]							
			[M]							
			[N]							

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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
					00	
30	30		1303178-00	620 1/4W 5% CC	1	R58
31	31		1312930-00	5.1 K 1/4W 5% CC	1	R56
32	32		1609557-00	DELAY= 100NS,0TAPS D10100	1	DL1
33	33		1611243-00	DELAY=25-250NS,10TAPS RCL#L-183	4	E98,E99,E100,E92
34	34		1909705-00	DEC 8881 NAND GATE-QUAD 2IN 0	2	E80,E88
35	35		1909712-00	DEC 8242 COMPARATOR-4BIT N,	3	E97,E82,E91
36	36		1910091-00	DEC 7437 AND GATE-QUAD 2IN,BU	1	E20
37	37		1910537-00	74S11 AND GATE-TRIPLE 3INP	1	E46
38	38		1910546-00	74S140 NAND GATE-DUAL 4INPU	2	E93,E94
39	39		1910544-00	74S74 FF-D DUAL,EDGE TRIGG	4	E5,E27,E45,E44
40	40		1911469-00	DEC 8340 RECEIVER,BUS,QUAD,U	4	E19,E48,E71,E96
41	41		1911579-00	8641 TRANSCEIVER,BUS,QUA	9	E31,E32,E39,E40,E58,E63,E64,E72, CONT E81
42	42		1912083-00	DEC 8647 UNIBUS INTERRUPT CON	2	E89,E95
43	43		1912649-00	LS75 LATCH 4BIT,BISTABLE	1	E26
44	44		1912696-00	LS194A SHIFT REG.,4BIT BI-D	6	E7-E9,E13,E14,E25
45	45		1912799-00	LS00 NAND-GATE-QUAD 2IN,P	3	E28,E69,E76
46	46		1912801-00	LS02 NOR-GATE-QUAD 2IN	4	E6,E61,E75,E84
47	47		1912803-00	LS04 INVERTER GATE-HEX 1I	3	E37,E54,E83
48	48		1912805-00	LS08 AND GATE-QUAD 2IN,PO	1	E53
49	49		1912807-00	LS10 NAND GATE-TRIPLE 3IN	2	E17,E36
50	50		1912808-00	LS11 AND GATE-TRIPLE 3IN	2	E12,E29
51	51		1912810-00	LS20 NAND GATE-DUAL 4IN	1	E47
52	52		1912815-00	LS30 NAND GATE-SINGLE 8IN	1	E65
53	53		1912819-00	LS42 DECODER,BCD-DECIMAL	1	E68
54	54		1912820-00	LS51 A-O-I GATE 2-WIRE 2I	4	E38,E56,E77,E78
55	55		1912821-00	LS54 A-O-I GATE,3-2-2-3IN	2	E85,E49
56	56		1912824-00	LS74 FF-D DUAL,EDGE TRIGG	5	E10,E55,E70,E79,E86
57	57		1912829-00	LS86 X-OR GATE-QUAD 2IN	1	E74
58	58		1912834-00	LS112 FF-JK DUAL,EDGE TRIG	3	E4,E11,E18
59	59		1912837-00	LS123 ONE SHOT-DUAL,RETRIG	2	E62,E87
60	60		1912845-00	LS153 MUX 1 OF 4 (DUAL)	9	E16,E67,E52,E50,E51,E33,E42,E24, CONT E41
61	61		1912847-00	LS157 MUX 1 OF 2(QUAD)	3	E22,E23,E35
62	62		1912867-00	LS298 MUX 1 OF 4,2IN W/S	2	E3,E15
63	63		1913939-00	LS191 COUNTER,SYNCHR. UP/D	7	E21,E30,E73,E59,E60,E43,E66
64	64		5408778-00	PLUG PRIORITY	1	E57
65	65		9000024-01	EYELET, ROLLED FLANGE, .121 OD X	12	
66	66		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	3	W2,W4,W9
67	67		9105740-55	WIRE(WRAP)30AWG UL1423	A/R	
68	68		1304837-00	24 K 1/4W 5% CC	1	R18

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							UNIBUS SERIAL BUS CONTROLLER		K	FL	M7982-0-DBP	D

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FIELD MAINTENANCE PRINT SET

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B-PL-TS11K-AA-0	D-UA-M8964-0-0*
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K-PL-M8924-0-DBP	
D-UA-M8929-0-0*	
D-CS-M8929-0-1	
K-PL-M8929-0-DBP	
D-UA-M8962-0-0*	
D-CS-M8962-0-1	

* INCLUDE SHEET 1 ONLY

UNIT VARIATIONS COVERED BY THIS PRINT SET	
TS11-AA	
TS11-AB	

TS04-A-1

Field Maintenance
Print Set

Digital Equipment
Corporation

PRINT SET ORDER
NO. MP00848

EN-0112418-N878-(327)

REVISIONS		CHG. NO.	REV.		USED ON OPTION/MODEL		DRN.	DATE	TITLE:	digital				
DATE			A	B	TS11		CHK'D	DATE						
7/7/80	TS04A-MI002						G. Marini	3/79	FIELD MAINTENANCE PRINT SET (TS04)	B	TC	TS04-A-01	B	
6/81	TS04A-MI003						R. Tremblay	7/79		DIST.				
							M. Cucina	7/79						
							S. Lunkins	7/79						
					SHEET 1 OF 1									

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DRAWING DIRECTORY

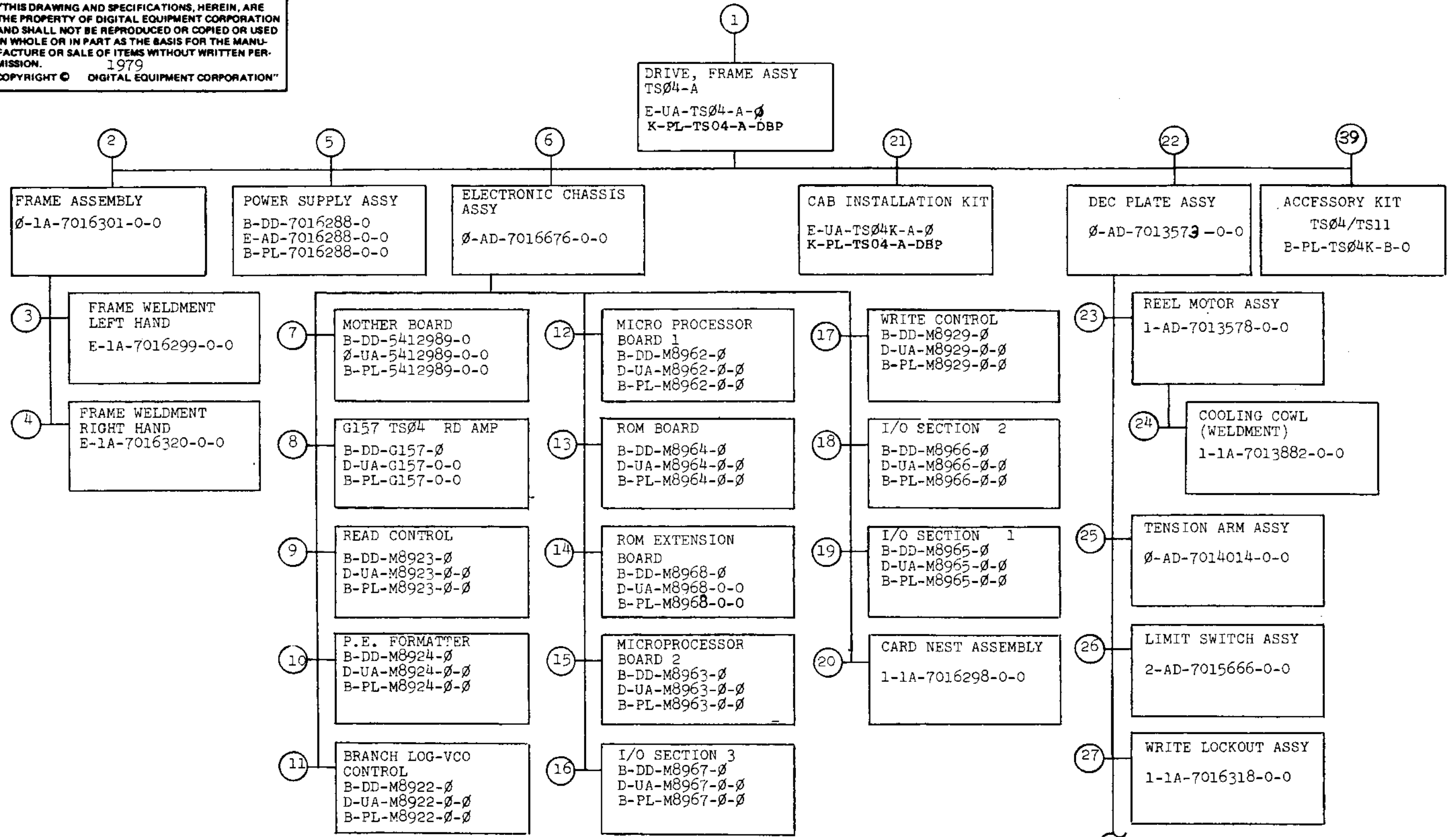
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 B-TC-TS04-A-02 (CUSTOMER PRINT SET)

UNIT VARIATIONS	
VAR	TITLE
TS04-AA	DRIVE, FRAME ASSY (TS04-A) 120V
TS04-AB	DRIVE, FRAME ASSY (TS04-A) 240V

REVISIONS	REV.	A	USED ON OPTION/MODEL	DRN.	G. Marini	DATE	3/12/79	TITLE	DRAWING DIRECTORY (TS04-A) digital				
	CHANGE NO.	TS04A-M1003		CHK'D.	<i>Grenelley</i>	DATE	7/18/79		SIZE	CODE	NUMBER	REV	
	CHK	<i>MES</i>		PROJ. ENG.	<i>M. Lucena</i>	DATE	7/19/79						B
	PROD.	<i>T. Wright</i>		DATE	7/18/79	SHEET - 1 OF 6	DIST.						

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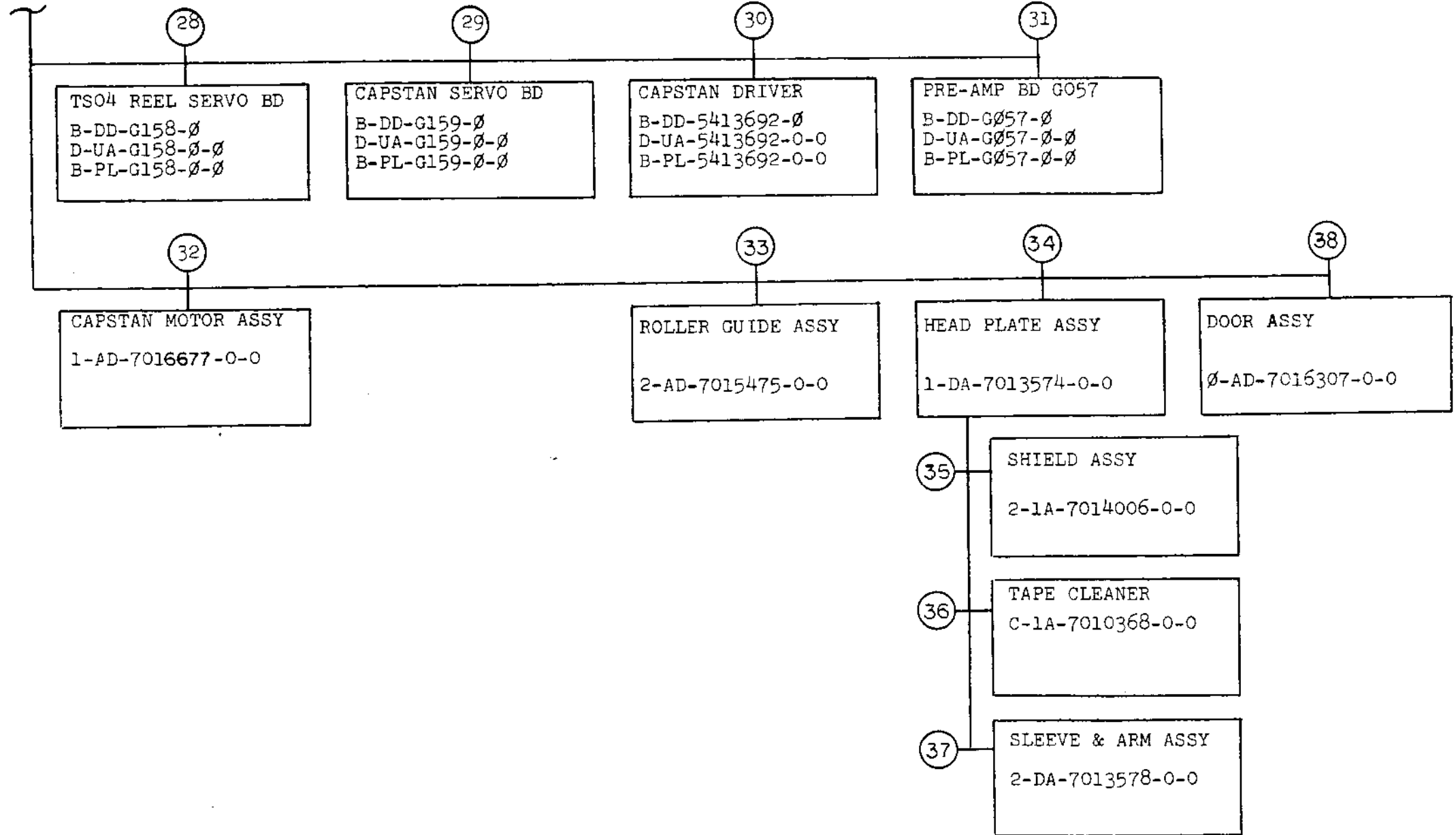


CONTINUED ON SHEET 3 OF 6

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	13	B-DD-M8964-0	DRAWING DIRECTORY	--
	I-MD-7422067-0-0	SUPPORT L.H.	M		D-UA-M8964-0-0	ROM BOARD	E/M
	1-MD-7422084-0-0	FRAME SIDE L.H.	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	14	B-DD-M8968-0	DRAWING DIRECTORY	--
	1-MD-7422084-0-0	FRAME SIDE R.H.	M		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		1-1A-7014149-0-0	CABLE WRITE HEAD	E/M
					1-1A-7013582-0-0	CABLE READ HEAD	E/M
					1-1A-7016284-0-0	CABLE POWER R/W	E/M
					1-1A-7016259-0-0	HARNESS C/P	E/M
21	E-UA-TSØ4K-A-Ø	CAB INSTALLATION KIT	M		2-1A-7016528-0-0	CABLE INTERCONNECT	E/M
	K-PL-TSØ4-A-ØBP	PARTS LIST	M		D-1A-7013577-0-0	HARNESS DRIVE	E/M
					1-1A-7016258-0-0	HARNESS W/L/L	E/M
					1-1A-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		1-1A-7013581-0-0	CABLE ASSY FOLDED	E/M
	Ø-MD-7417657-0-0	DECK PLATE	M		1-1A-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
	1-1A-7418004-0-0	BRACKET GUSSET R.H.	M		A-PS-1214528-0-0	REEL MOTOR	E/M
	1-1A-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-1214164-0-0	BEARING	M	34	2-MD-7418265-0-0	GUIDE, TAPE PIN	M
26	2-AD-7015666-0-0	LIMIT SWITCH ASSY	E/M		A/C-PS-1216060-0-0	ROLLER ASSY	M
	2-MD-7418035-0-0	BRACKET SWITCH	M		A-PS-1209877-0-0	WASHER CERAMIC	M
	2-MD-7418035-0-0	SWITCH REWORK	E/M		2-MD-7417900-0-0	WASHER CLAMP	M
27	1-IA-7016318-0-0	WRITE LOCKOUT ASSY	E/M		2-MD-7420621-0-0	WASHER	M
	2-IA-7422069-0-0	BRACKET W.L.O.	M		2-IA-7016662-0-0	EOT/BOT ASSY	M
	2-MD-7422070-0-0	ARM W.L.O.	M		B-MD-7422992-0-0	SHAFT BUFFER	M
	A-PS-1214548-0-0	SOLENOID	E/M		B-MD-7422993-0-0	WASHER	M
	2-IA-7016317-0-0	HARNESS WRITE LOCK	E/M	35	2-IA-7014006-0-0	SHIELD ASSY	M
	2-MD-7422062-0-0	HOLDER ARM	M		2-MD-7418667-0-0	SHIELD MAGNETIC FLUX	M
28	B-DD-G158-0	DRAWING DIRECTORY	---		2-MD-7418666-0-0	HOLDER	M
	D-UA-G158-0-0	TS04 REEL SERVO BD	E/M		2-MD-7422487-0-0	SHIELD COPPER	M
	B-PL-G158-0-0	TS04 REEL SERVO BD (PL)	E/M		A-PS-1614497-0-0	FERRITE	M
29	B-DD-G159-0	DRAWING DIRECTORY	---	36	C-IA-7010368-0-0	TAPE CLEANER	M
	D-UA-G159-0-0	CAPSTAN SERVO BD	E/M		C-MD-7414126-0-0	SUPPORT SCRAPER	M
	B-PL-G159-0-0	CAPSTAN SERVO BD (PL)	E/M		C-MD-7414127-0-0	SCRAPER, TAPE	M
30	B-DD-5413692-0	DRAWING DIRECTORY	---	37	2-DA-7013578-0-0	SLEEVE ARM ASSY	M
	D-UA-5413692-0-0	CAPSTAN DRIVER	E/M		2-MD-7420619-0-0	ARM DAMPER	M
	B-PL-5413692-0-0	CAPSTAN DRIVER (PL)	E/M		A-PS-1215236-0-0	SLEEVE BEARING	M
31	B-DD-G057-0	DRAWING DIRECTORY	---	38	2-AD-7016307-0-0	DOOR ASSY	M
	D-UA-G057-0-0	PRE-AMP BOARD	E/M		0-MD-7418027-0-0	DOOR	M
	B-PL-G057-0-0	PRE-AMP BOARD (PL)	E/M		2-MD-7419698-0-0	WINDOW	M
32	1-AD-7016677-0-0	CAPSTAN MOTOR ASSY	E/M		2-IA-7419911-0-0	BRACKET LATCH	M
	1-PS-1214529-0-0	MOTOR CAPSTAN	M		A-PS-1214956-0-0	HINGE	M
	2-MD-7417984-0-0	PLATE CAPSTAN MOTOR	M		A-PS-1214838-0-0	CLIP	M
33	2-AD-7015475-0-0	ROLLER GUIDE ASSY	M	39	B-PL-TS04K-B-0	ACCESSORY KIT TS04/TS11	---
	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



TITLE
DRAWING DIRECTORY

SHEET 6 OF 6

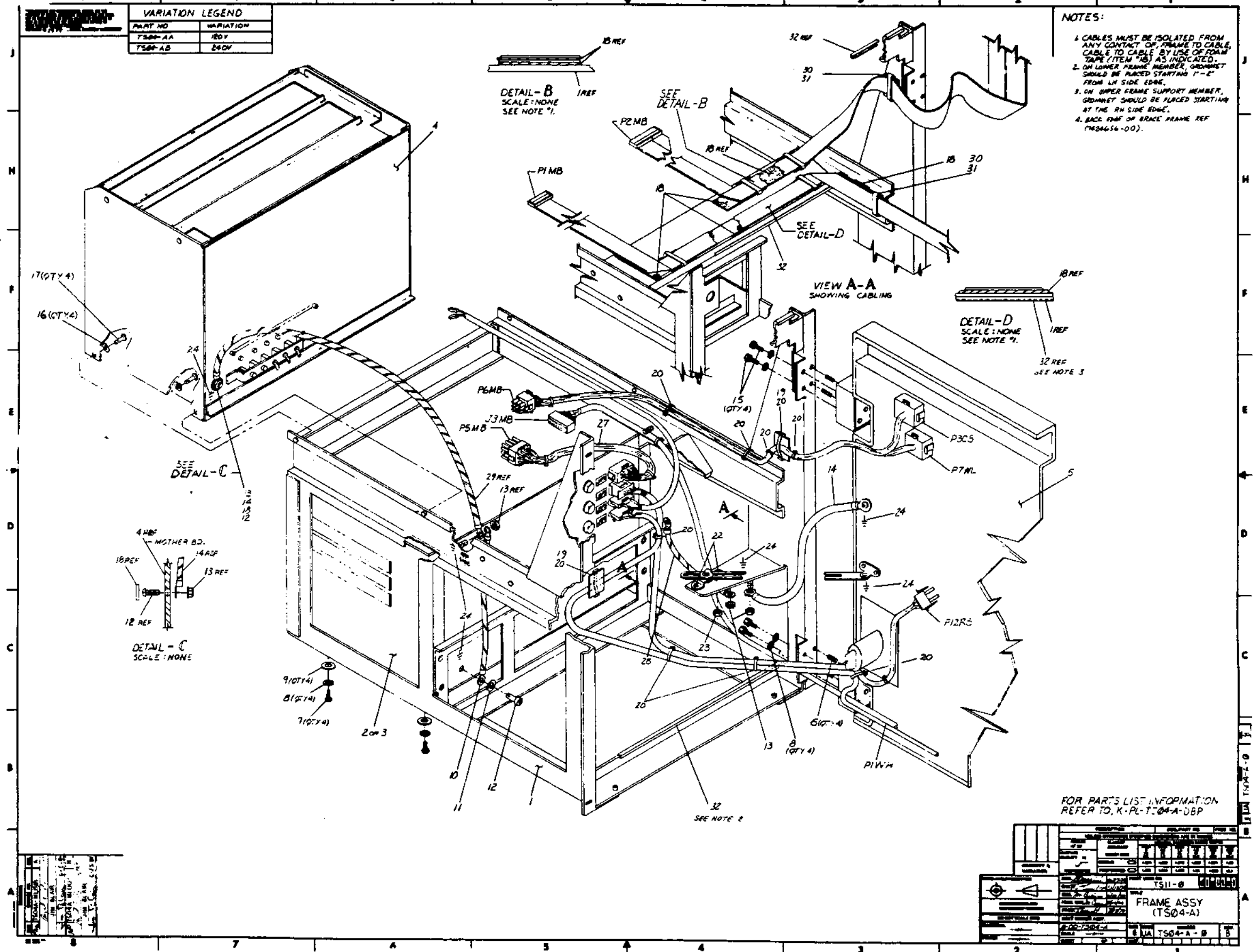
SIZE CODE
B DD

NUMBER
TS04-A

REV
A

VARIATION LEGEND	
PART NO	VARIATION
TS04-AA	120V
TS04-AB	240V

NOTES:
 1. CABLES MUST BE ISOLATED FROM ANY CONTACT OF FRAME TO CABLE, CABLE TO CABLE BY USE OF FOAM TAPE (ITEM 18) AS INDICATED.
 2. ON LOWER FRAME MEMBER, GROMMET SHOULD BE PLACED STARTING 1"-2" FROM LH SIDE EDGE.
 3. ON UPPER FRAME SUPPORT MEMBER, GROMMET SHOULD BE PLACED STARTING AT THE RH SIDE EDGE.
 4. BACK END OF BRACE FRAME REF (MS0456-00).

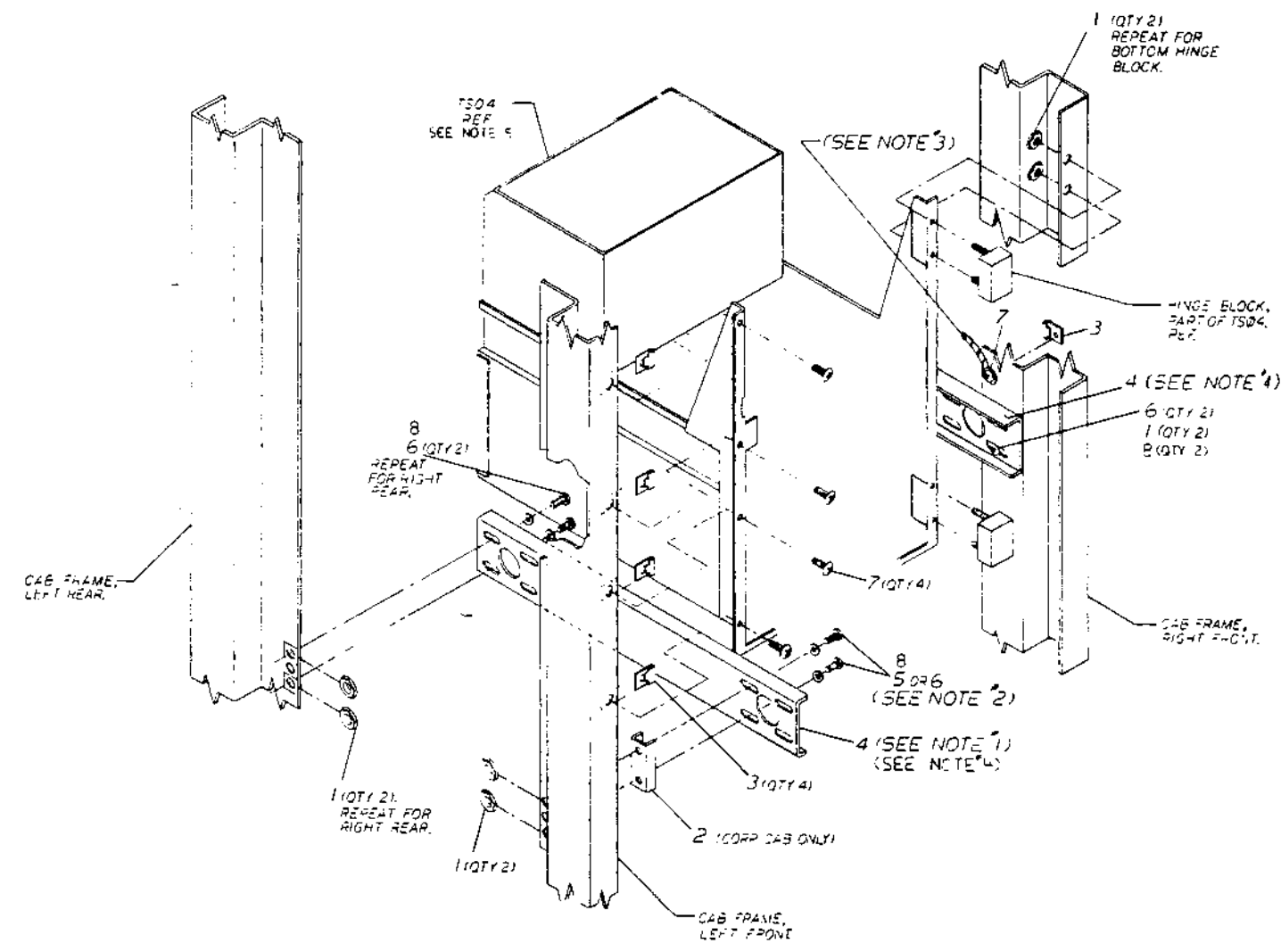


FOR PARTS LIST INFORMATION REFER TO, K-PL-T-04-A-DBP

PARTS LIST	
QTY	PART NO
1	TS04-A
1	TS04-AA
1	TS04-AB
1	TS04-AC
1	TS04-AD
1	TS04-AE
1	TS04-AF
1	TS04-AG
1	TS04-AH
1	TS04-AI
1	TS04-AJ
1	TS04-AK
1	TS04-AL
1	TS04-AM
1	TS04-AN
1	TS04-AO
1	TS04-AP
1	TS04-AQ
1	TS04-AR
1	TS04-AS
1	TS04-AT
1	TS04-AU
1	TS04-AV
1	TS04-AW
1	TS04-AX
1	TS04-AY
1	TS04-AZ

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J
H
F
E
D
C
B
A



- NOTES:
1. INSTALL ITEM 4 (FRAME SUPPORT) USING SECOND SET OF FRONT SLOTS AS SHOWN FOR CORP CAB INST. USE FIRST SET OF FRONT SLOTS ON ALL OTHER CABS.
 2. USE ITEM 5 (SCR 1/4-20 X .75L) AND ITEM 2 (SPACER) TOGETHER FOR CORP CAB INST. USE ITEM 6 (SCR 1/4-20 X .50) ON ALL OTHER CABS.
 3. SECURE GROUND STRAP (PART OF TS04) TO CAB FRAME.
 4. WIDER EDGE DENOTES TOP OF "U" CHANNEL FRAME SUPPORT
 5. POSITION PLENUM (7-27015-01) AS FOLLOWS FOR:
 'B' STYLE CAB SLIDE IN
 'C' STYLE CAB SLIDE OUT
 'D' STYLE CAB REMOVE PLENUM AND HARDWARE.

FOR PARTS LIST REFER TO, K-PL-TS04K-2-DBP

1	TS04	1
2	SPACER	6
3	SCR 1/4-20 X .75L	8
4	FRAME SUPPORT	4
5	SCR 1/4-20 X .50	6
6	SCR 1/4-20 X .50	6
7	GROUND STRAP	1
8	5096	8

QUANTITY & UNIT		DESCRIPTION		UNIT PRICE		TOTAL PRICE	
QTY	UNIT	DESCRIPTION	UNIT PRICE	QTY	UNIT PRICE	TOTAL PRICE	
1	EA	TS04		1			
6	EA	SPACER		6			
8	EA	SCR 1/4-20 X .75L		8			
4	EA	FRAME SUPPORT		4			
6	EA	SCR 1/4-20 X .50		6			
1	EA	GROUND STRAP		1			
8	EA	5096		8			
TOTAL							

TS04
 CAB INSTALLATION KIT
 K-PL-TS04K-2-DBP
 1 SHO

DIGITAL EQUIPMENT CORPORATION PARTS LIST				QUANTITY / VARIATION										NOTES:			
MADE BY G. Marini DATE 2/27/79		CHECKED R. Tremblay DATE 7/18/79		SECTION													
ENG M. Cucini DATE 7/19/79		PROD T. Wright DATE 7/18/79		ISSUED SECTION													
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	TS11K-AA (120V)													REF DESIGNATION
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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TITLE
240V to 120V TS11 CONVERSION KIT

ASSY NO.
NONE
SHEET 1 OF 1

SIZE CODE
B PL
NUMBER
TS11K-AA-Ø
REV.
B

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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TITLE
120V to 240V TS11 CONVERSION KIT

ASSY NO.
NONE
SHEET 1 OF 1

SIZE CODE NUMBER
B PL TS11K-AB-Ø
INSERTION PARTS LIST DATA BASE REV

REV.
B

ML2

DRAWING NO.	NO. OF SHTS	PART NO.	DESCRIPTION	REVISIONS															
				*	A	B	C	D	E	F	G	H	I	J	K	L	M	N	
B-DD-5412989-0	1		MOTHER BOARD TS04	*	A	B	C	D											
E-UA-5412989-0-0	4		MOTHER BOARD TS04	D	E	F	F	F											
D-CS-5412989-0-1	8		MOTHER BOARD TS04	D	E	F	F	F											
E-MD-5012988-0-0	5		DRILL & ETCH DRAWING	D	E	E	F	H											
		5012988	ETCHED BOARD	E	E	E	E	E											
K-PL-5412989-0-DBP	-		PARTS LIST DATA BASE (5412989)	D	E	F	F	F											
K-PC-5412989-0-DBG	-		P.C. DESIGN DATA BASE (5412989)	A	A	A	A	A											

NOTES:

REVISIONS		DATE	CHG NO.	REV.	ORIG	A	B	C	D
		3-79	ML001						
		3-80	ML002						
		8/82	ML004						
		9/82	31005						

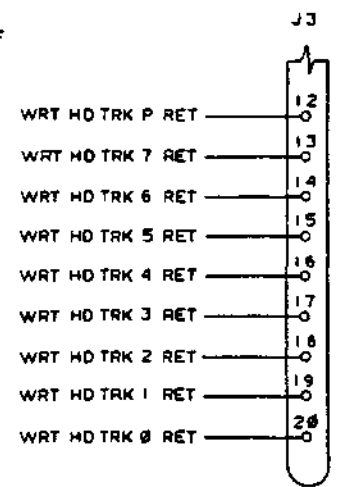
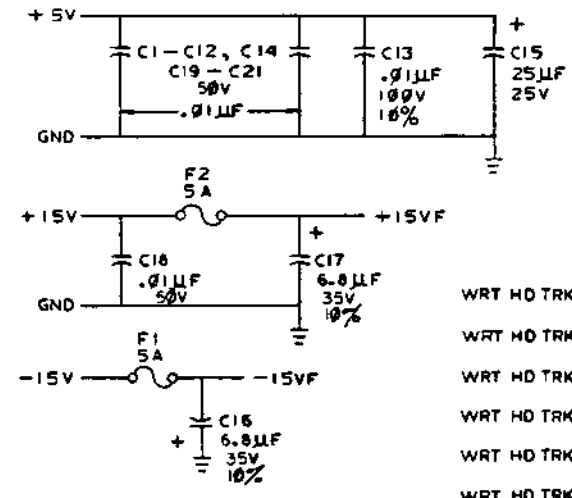
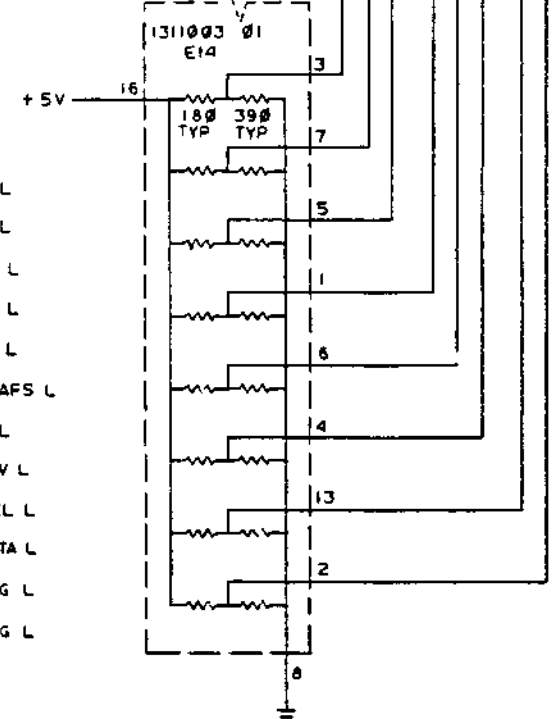
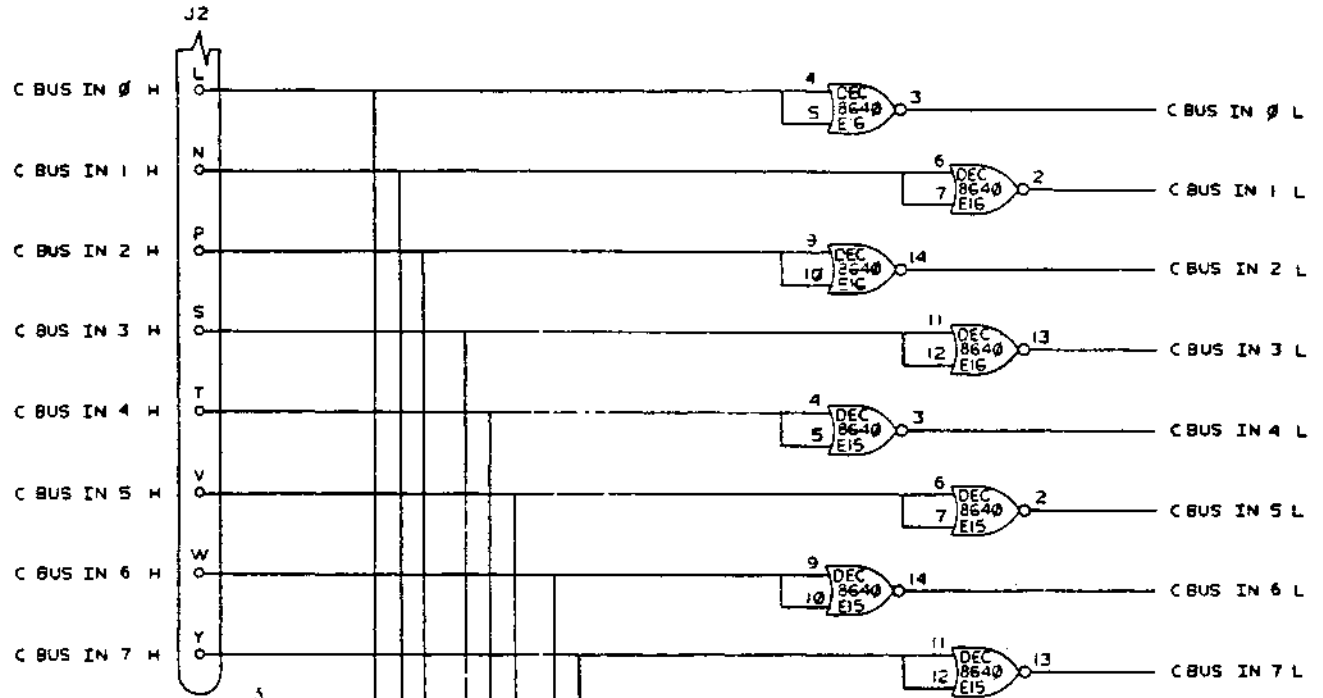
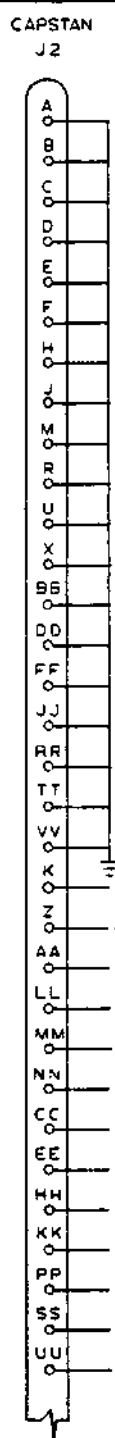
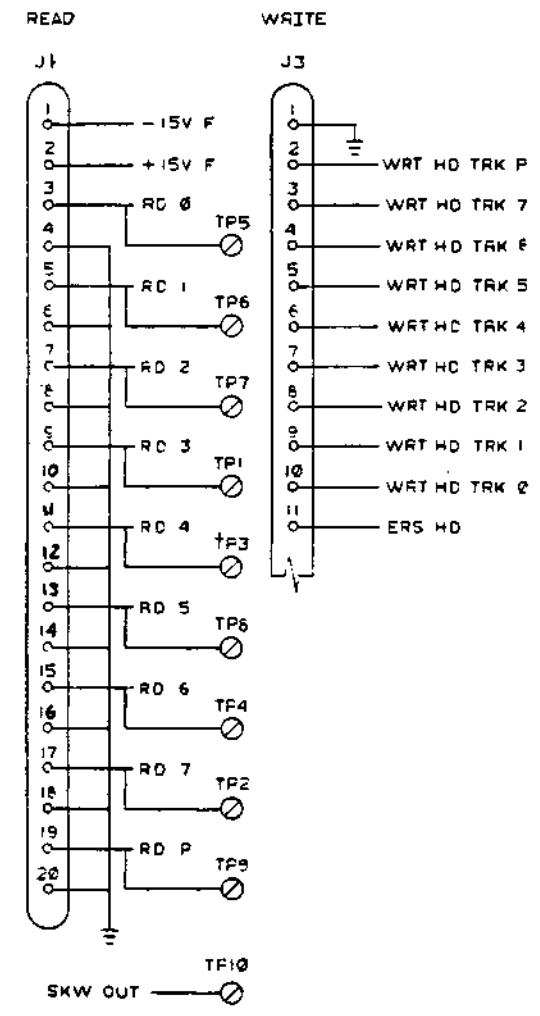
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USED ON OPTION/MODEL TS11	DRN ANGEL A. COLON 12-7-78	TITLE MOTHER BOARD TS04
	CHK'D PHIL BOSSMAN 12-12-78	SIZE CODE BDD
	ENG. J. Rollins 2-1-79	NUMBER 5412989-0
	PROD. Peter Barton 2-1-79	REV. D
SHEET 1 OF 1		

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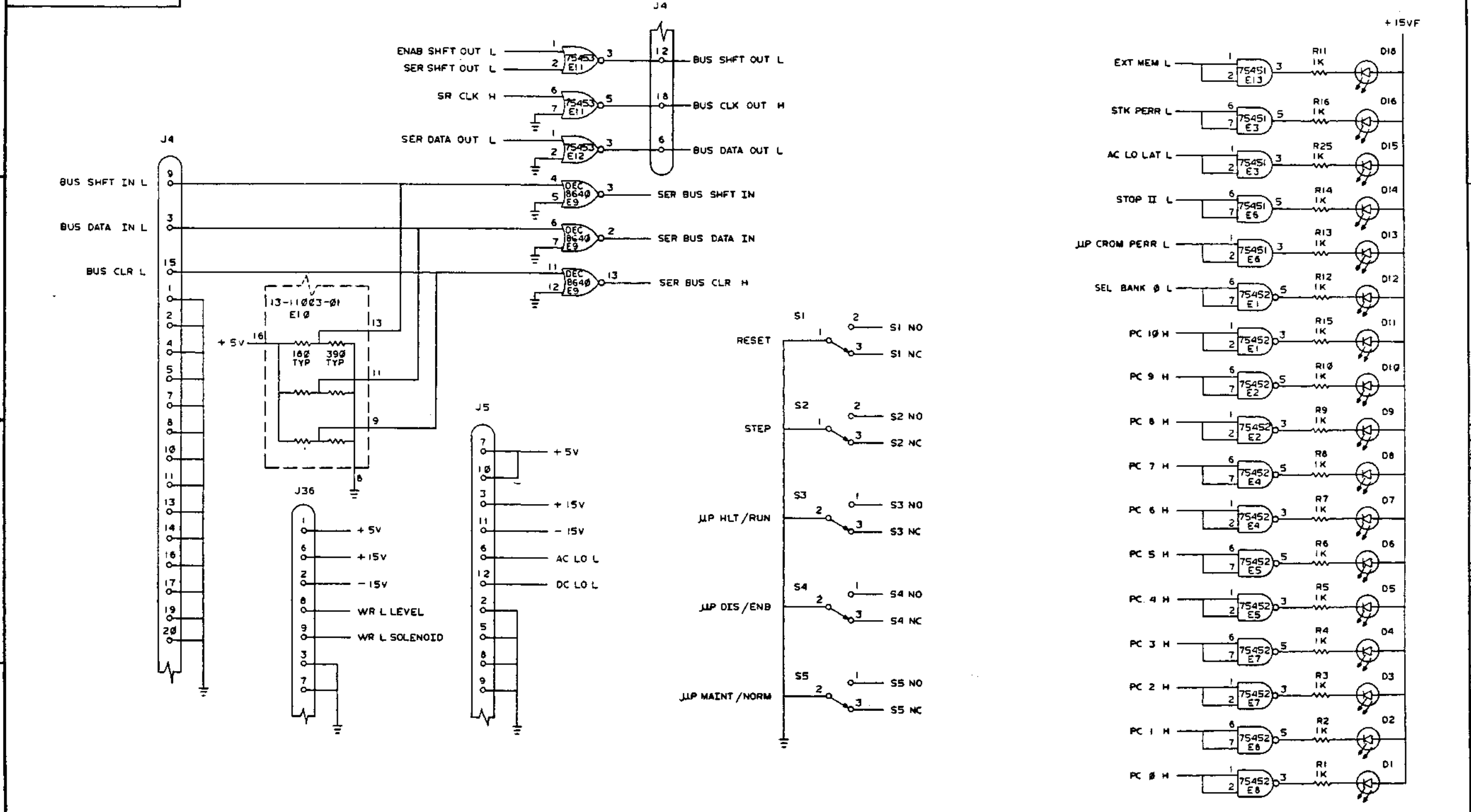


REV	DATE	BY	CHK
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2	11/17/78	J. R. COLLINS	J. R. COLLINS
3	11/17/78	J. R. COLLINS	J. R. COLLINS
4	11/17/78	J. R. COLLINS	J. R. COLLINS
5	11/17/78	J. R. COLLINS	J. R. COLLINS
6	11/17/78	J. R. COLLINS	J. R. COLLINS
7	11/17/78	J. R. COLLINS	J. R. COLLINS
8	11/17/78	J. R. COLLINS	J. R. COLLINS

DRW. J. R. COLLINS 11/17/78	FIRST USED ON	TS11	Digital
CHK. J. R. COLLINS 11/17/78	TITLE	MOTHER BOARD	
ENGR. J. R. COLLINS 11/17/78	NUMBER	TS0-1	
PROD. J. R. COLLINS 11/17/78	SCALE	NONE	REV. F
NEXT HIGHER ASSY.	SIZE CODE	D	REV. F
B-DD-5412989-0	SCALE	NONE	REV. F
SHEET 2 OF 8	DIST.		

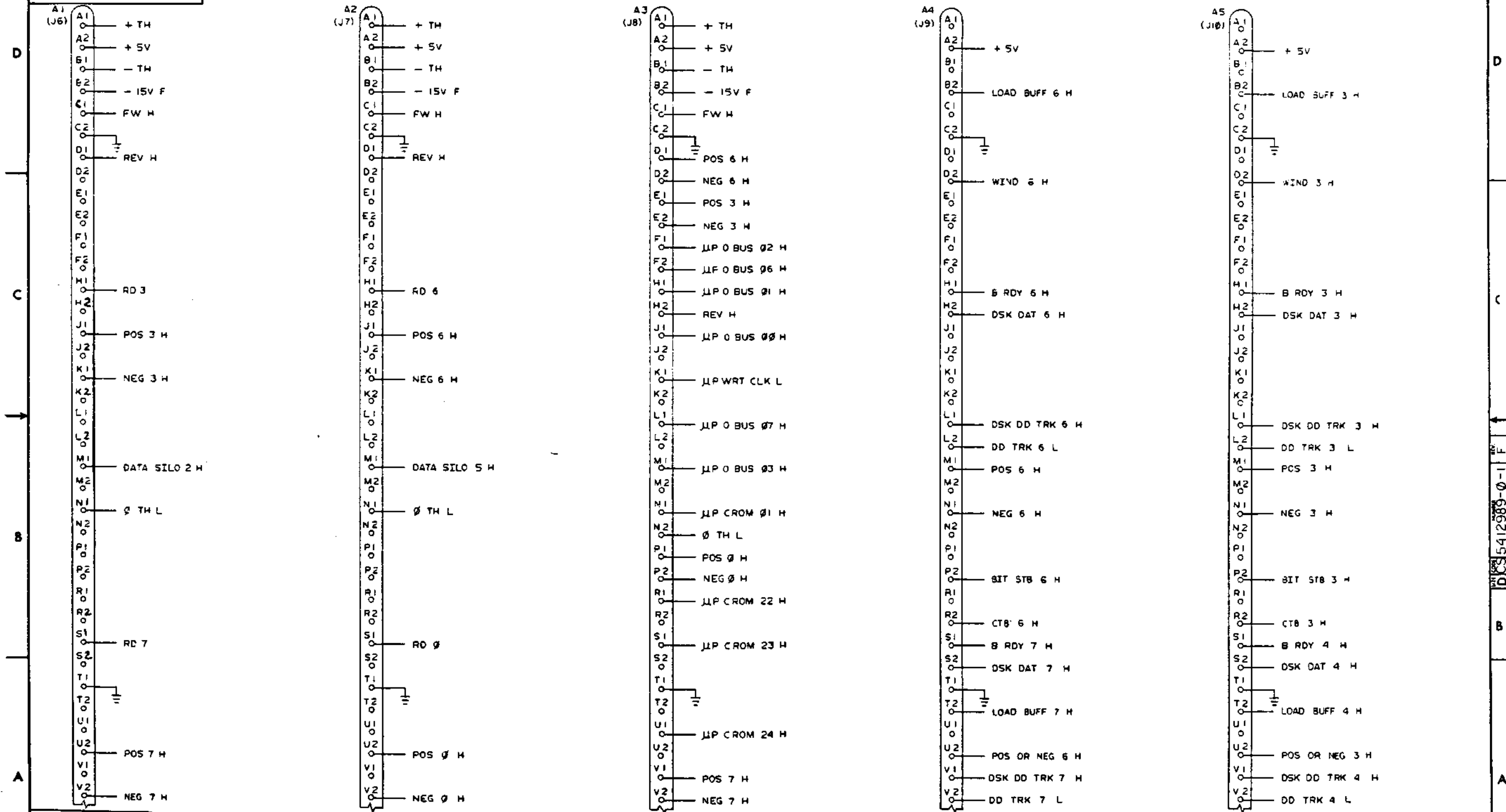
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DCS 5412989-0-1 2



REVISIONS		
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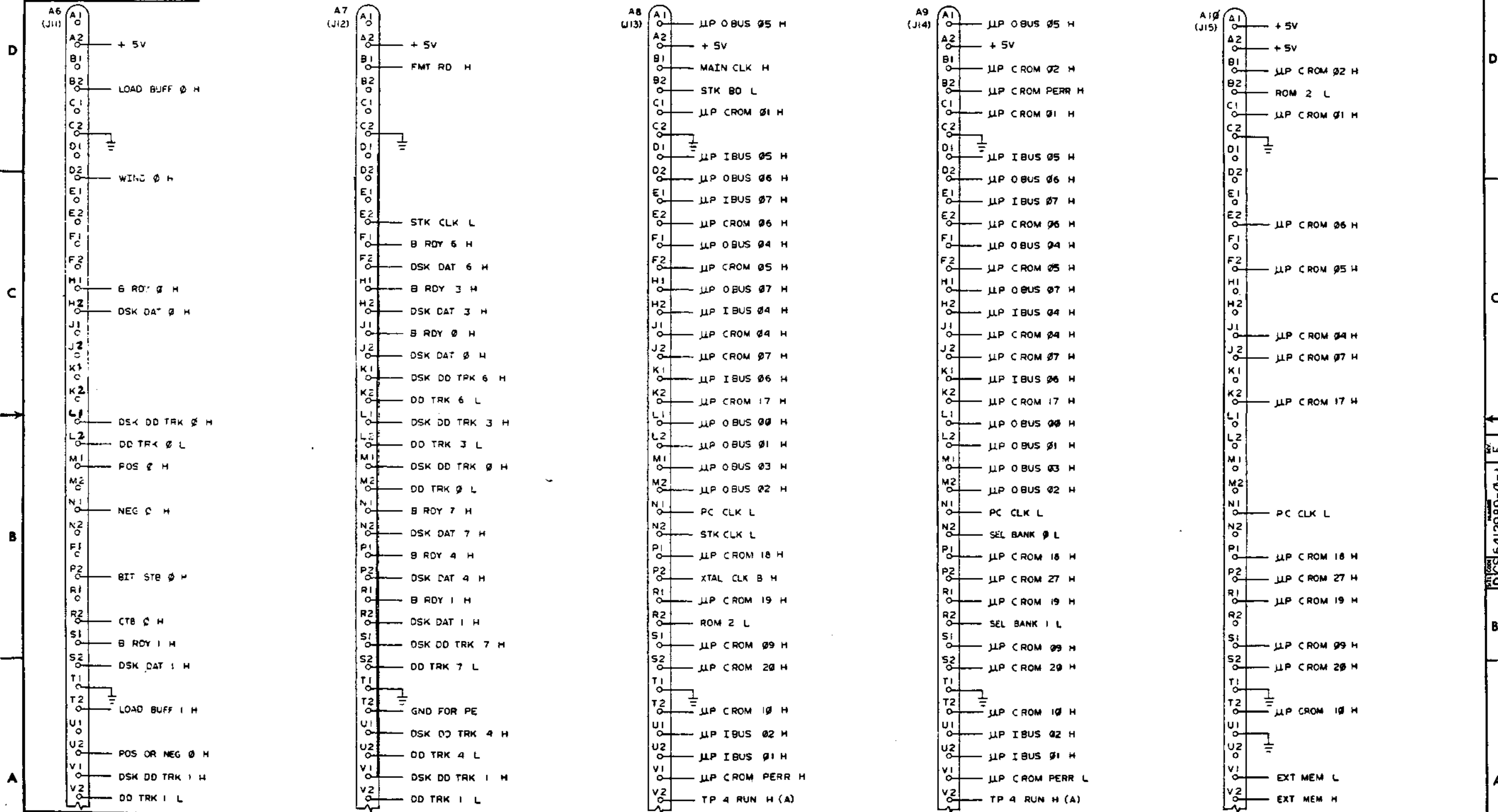
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REVISIONS		
CHK	CHANGE NO.	REV.

D CS 5412989-0-1 F

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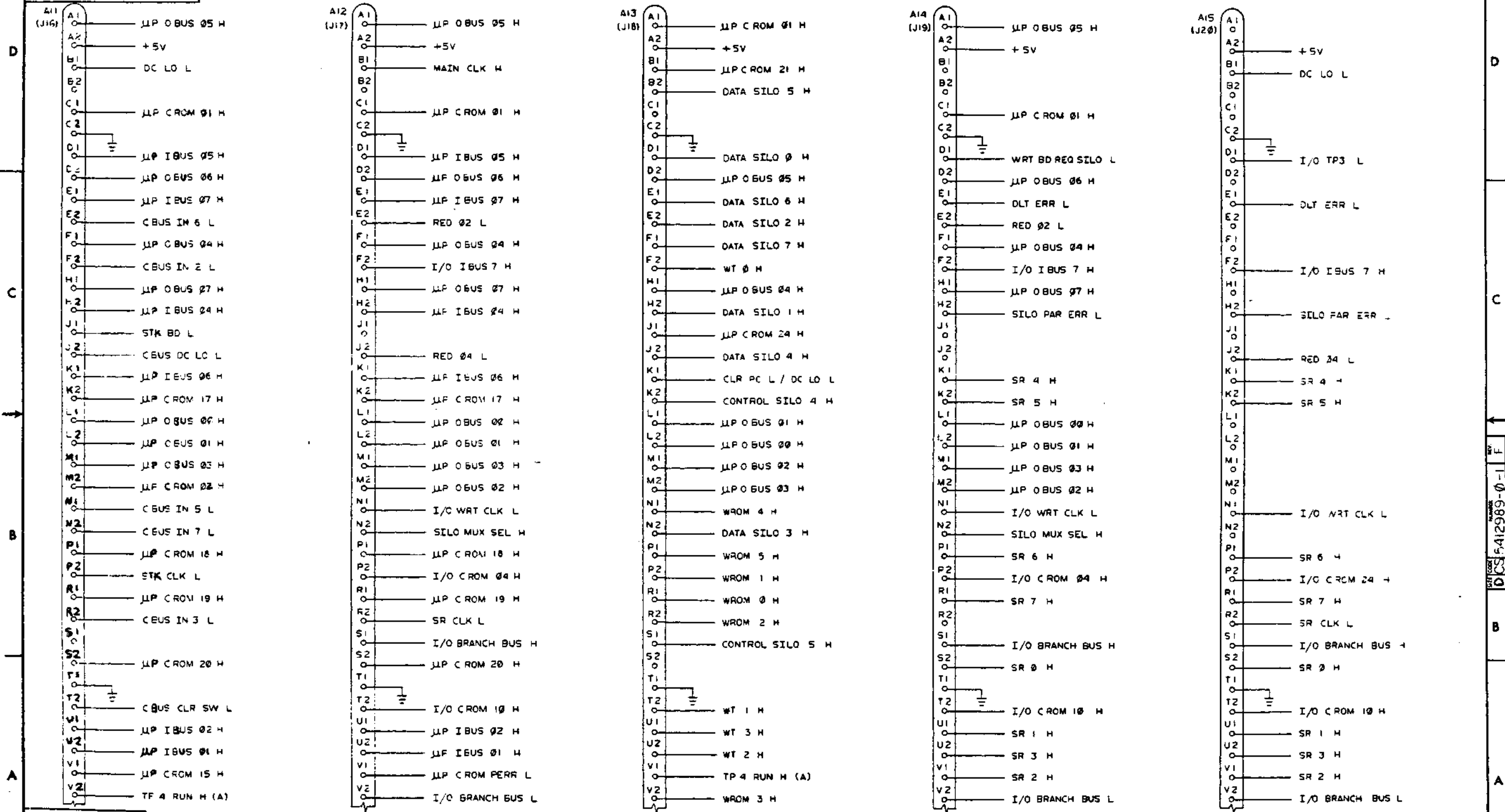
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DCS 5412989-0-1 2

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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE MOTHER BOARD TS04
 SCALE NONE SHEET 5 OF 6 DIST. 1
 SIZE CODE NUMBER REV. DCS 5412989-0-1 F

8

7

6

5

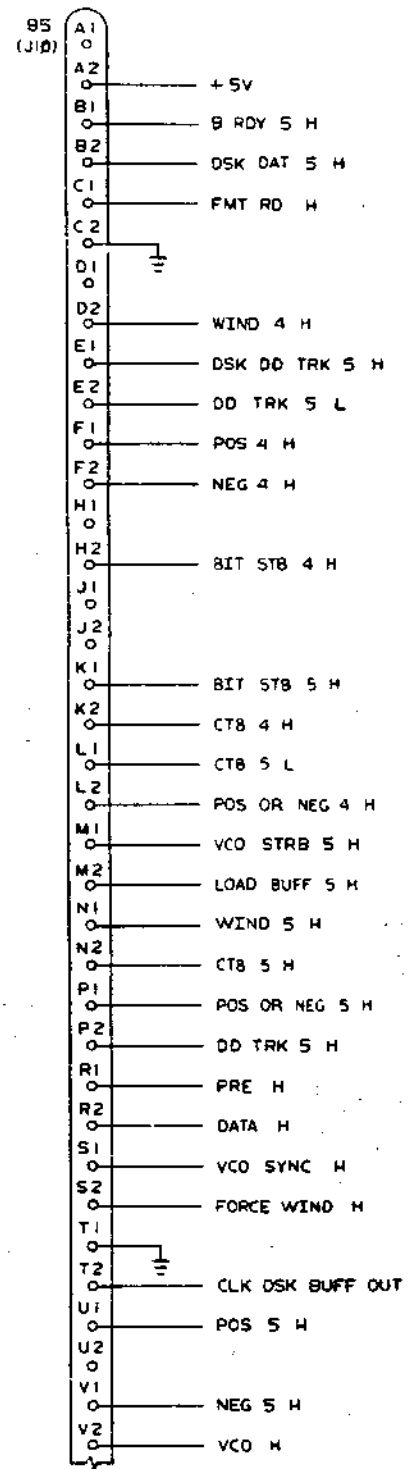
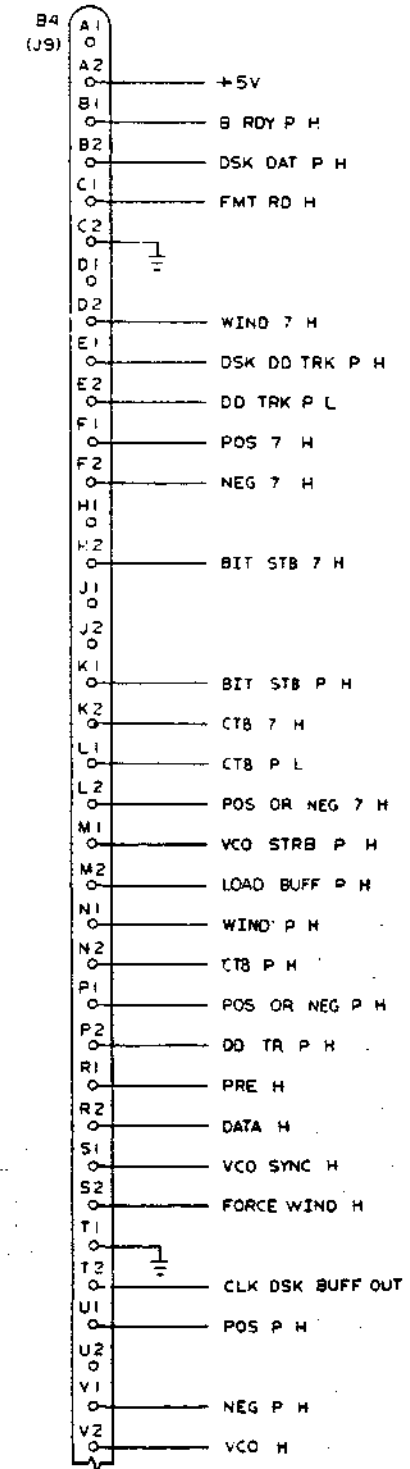
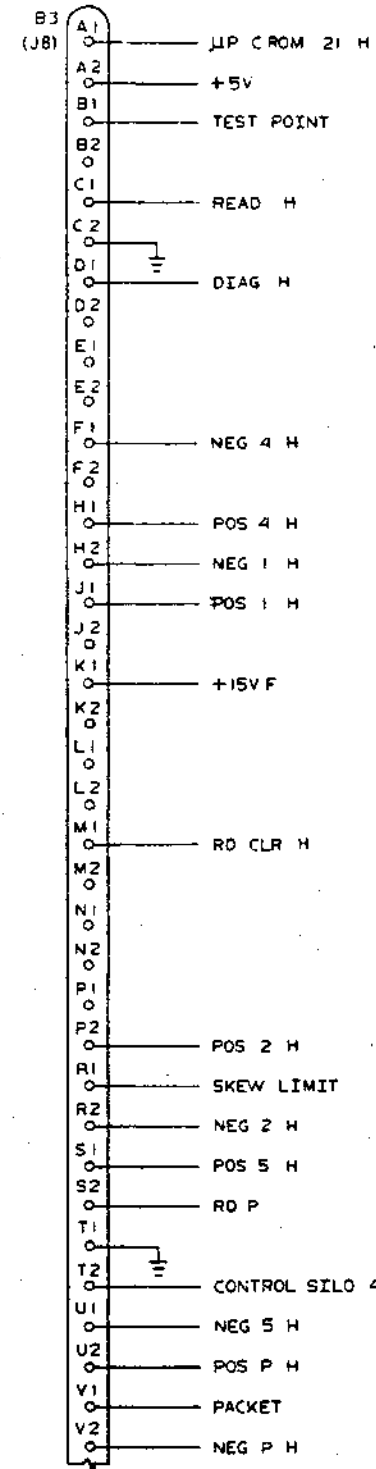
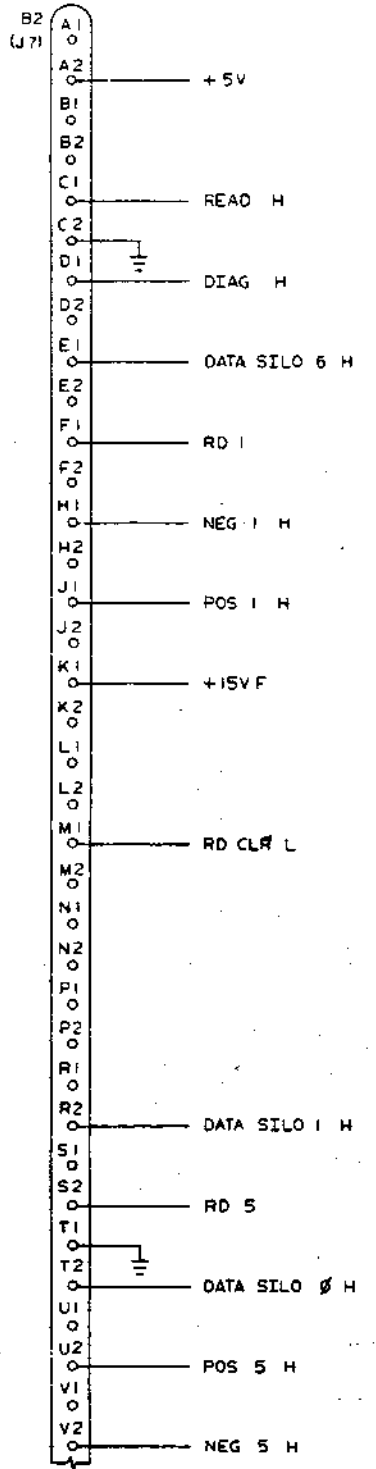
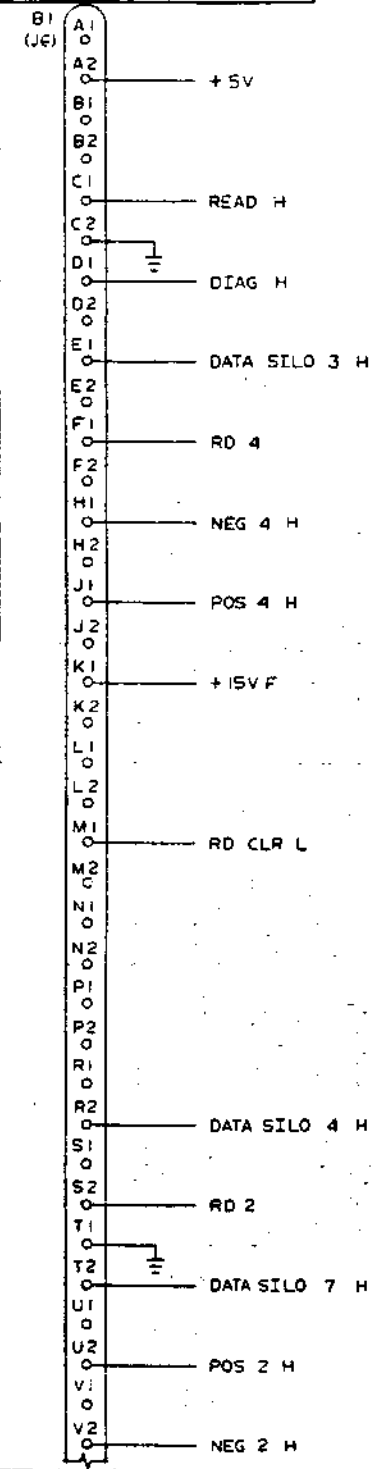
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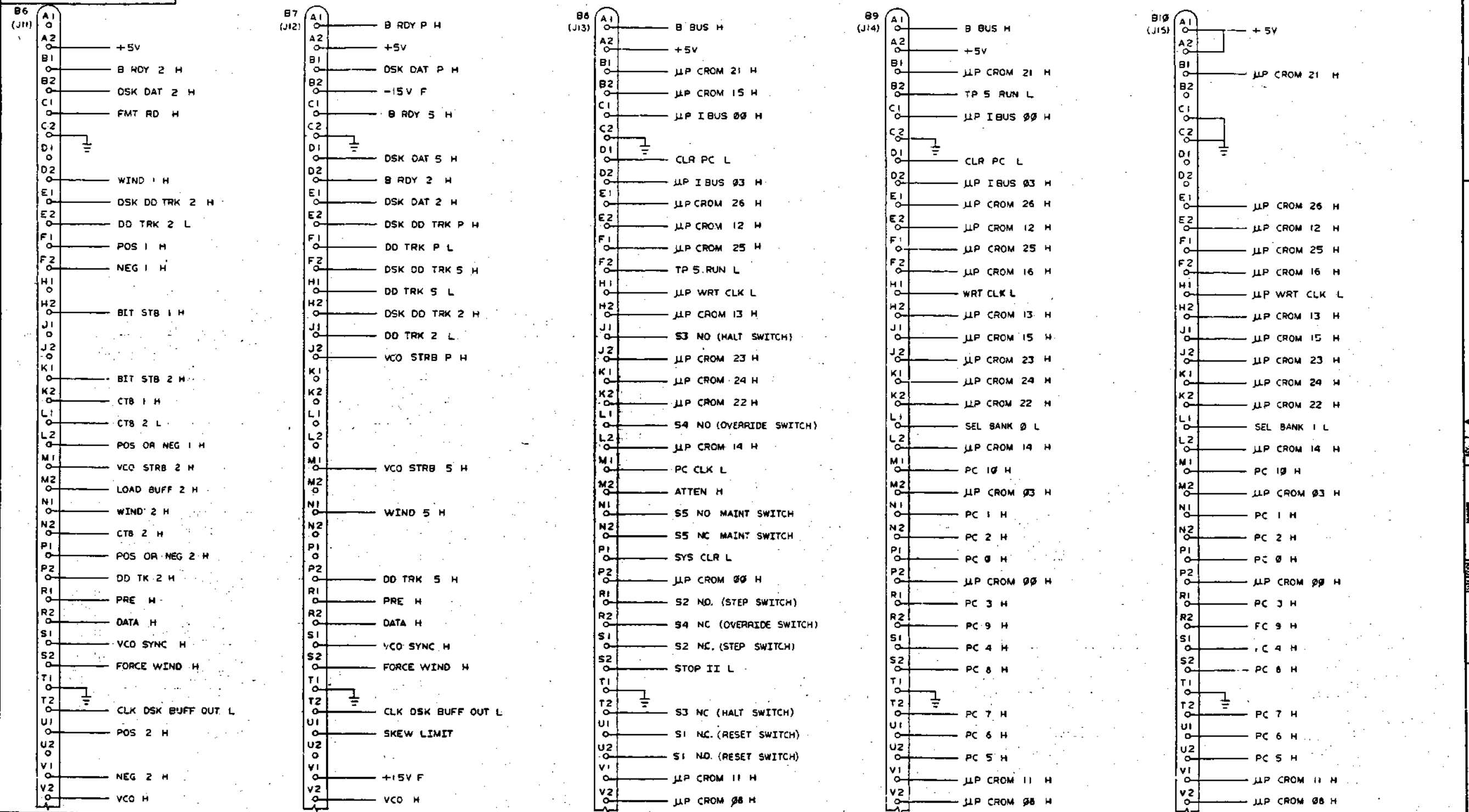
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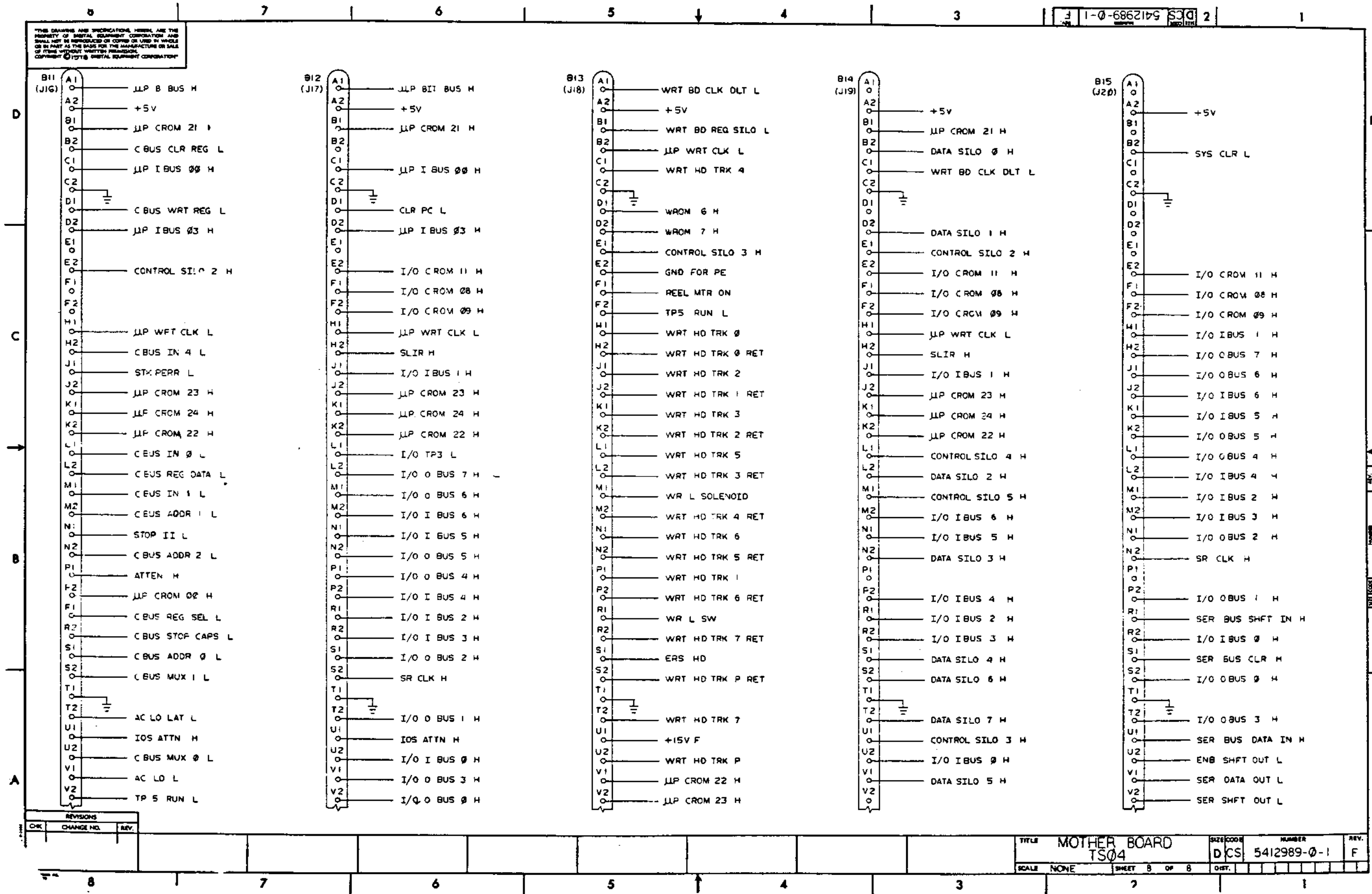
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REV.	CHANGE NO.	REV.

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5412989-0-1



B11 (J16)

A1 — JLP B BUS H
 A2 — +5V
 B1 — JLP CROM 21 H
 B2 — C BUS CLR REG L
 C1 — JLP I BUS 00 H
 C2 —
 D1 —
 D2 — C BUS WRT REG L
 E1 — JLP I BUS 03 H
 E2 — CONTROL SILO 2 H
 F1 —
 F2 —
 H1 — JLP WRT CLK L
 H2 — C BUS IN 4 L
 J1 — STX PERR L
 J2 — JLP CROM 23 H
 K1 — JLP CROM 24 H
 K2 — JLP CROM 22 H
 L1 — CEUS IN 0 L
 L2 — CEUS REG DATA L
 M1 — CEUS IN 1 L
 M2 — CEUS ADDR 1 L
 N1 — STOP II L
 N2 — C BUS ADDR 2 L
 P1 — ATTN H
 P2 — JLP CROM 02 H
 R1 — C BUS REG SEL L
 R2 — C BUS STOP CAPS L
 S1 — C BUS ADDR 0 L
 S2 — C BUS MUX 1 L
 T1 —
 T2 — AC LO LAT L
 U1 — IOS ATTN H
 U2 — C BUS MUX 0 L
 V1 — AC LD L
 V2 — TP 5 RUN L

B12 (J17)

A1 — JLP BIT BUS H
 A2 — +5V
 B1 — JLP CROM 21 H
 B2 —
 C1 — JLP I BUS 00 H
 C2 —
 D1 —
 D2 — CLR PC L
 E1 — JLP I BUS 03 H
 E2 — I/O CROM 11 H
 F1 — I/O CROM 08 H
 F2 — I/O CROM 09 H
 H1 — JLP WRT CLK L
 H2 — SLIR H
 J1 — I/O I BUS 1 H
 J2 — JLP CROM 23 H
 K1 — JLP CROM 24 H
 K2 — JLP CROM 22 H
 L1 — I/O TP3 L
 L2 — I/O 0 BUS 7 H
 M1 — I/O 0 BUS 6 H
 M2 — I/O I BUS 6 H
 N1 — I/O I BUS 5 H
 N2 — I/O 0 BUS 5 H
 P1 — I/O 0 BUS 4 H
 P2 — I/O I BUS 4 H
 R1 — I/O I BUS 2 H
 R2 — I/O I BUS 3 H
 S1 — I/O 0 BUS 2 H
 S2 — SR CLK H
 T1 —
 T2 —
 U1 — I/O 0 BUS 1 H
 U2 — IOS ATTN H
 V1 — I/O I BUS 0 H
 V2 — I/O 0 BUS 3 H

B13 (J18)

A1 — WRT BD CLK DLT L
 A2 — +5V
 B1 — WRT BD REQ SILO L
 B2 — JLP WRT CLK L
 C1 — WRT HD TRK 4
 C2 —
 D1 —
 D2 — WROM 6 H
 E1 — WROM 7 H
 E2 — CONTROL SILO 3 H
 F1 — GND FOR PE
 F2 — REEL MTR ON
 H1 — TP5 RUN L
 H2 — WRT HD TRK 0
 J1 — WRT HD TRK 2
 J2 — WRT HD TRK 1 RET
 K1 — WRT HD TRK 3
 K2 — WRT HD TRK 2 RET
 L1 — WRT HD TRK 5
 L2 — WRT HD TRK 3 RET
 M1 — WR L SOLENOID
 M2 — WRT HD TRK 4 RET
 N1 — WRT HD TRK 6
 N2 — WRT HD TRK 5 RET
 P1 — WRT HD TRK 1
 P2 — WRT HD TRK 6 RET
 R1 — WR L SW
 R2 — WRT HD TRK 7 RET
 S1 — ERS HD
 S2 — WRT HD TRK P RET
 T1 —
 T2 —
 U1 — WRT HD TRK 7
 U2 — +15V F
 V1 — WRT HD TRK P
 V2 — JLP CROM 22 H

B14 (J19)

A1 — +5V
 A2 — +5V
 B1 — JLP CROM 21 H
 B2 — DATA SILO 0 H
 C1 — WRT BD CLK DLT L
 C2 —
 D1 —
 D2 —
 E1 — DATA SILO 1 H
 E2 — CONTROL SILO 2 H
 F1 — I/O CROM 11 H
 F2 — I/O CROM 08 H
 H1 — I/O CROM 09 H
 H2 — JLP WRT CLK L
 J1 — SLIR H
 J2 — I/O I BUS 1 H
 K1 — JLP CROM 23 H
 K2 — JLP CROM 24 H
 L1 — JLP CROM 22 H
 L2 — CONTROL SILO 4 H
 M1 — DATA SILO 2 H
 M2 — CONTROL SILO 5 H
 N1 — I/O I BUS 6 H
 N2 — I/O I BUS 5 H
 P1 — DATA SILO 3 H
 P2 — I/O I BUS 4 H
 R1 — I/O I BUS 2 H
 R2 — I/O I BUS 3 H
 S1 — DATA SILO 4 H
 S2 — DATA SILO 6 H
 T1 —
 T2 —
 U1 — DATA SILO 7 H
 U2 — CONTROL SILO 3 H
 V1 — I/O I BUS 0 H
 V2 — DATA SILO 5 H

B15 (J20)

A1 — +5V
 A2 — +5V
 B1 — SYS CLR L
 B2 —
 C1 —
 C2 —
 D1 —
 D2 —
 E1 —
 E2 — I/O CROM 11 H
 F1 — I/O CROM 08 H
 F2 — I/O CROM 09 H
 H1 — I/O I BUS 1 H
 H2 — I/O 0 BUS 7 H
 J1 — I/O 0 BUS 6 H
 J2 — I/O I BUS 6 H
 K1 — I/O I BUS 5 H
 K2 — I/O 0 BUS 5 H
 L1 — I/O 0 BUS 4 H
 L2 — I/O I BUS 4 H
 M1 — I/O I BUS 2 H
 M2 — I/O I BUS 3 H
 N1 — I/O 0 BUS 2 H
 N2 — SR CLK H
 P1 —
 P2 — I/O 0 BUS 1 H
 R1 — SER BUS SHFT IN H
 R2 — I/O I BUS 0 H
 S1 — SER BUS CLR H
 S2 — I/O 0 BUS 0 H
 T1 —
 T2 —
 U1 — I/O 0 BUS 3 H
 U2 — SER BUS DATA IN H
 V1 — ENB SHFT OUT L
 V2 — SER DATA OUT L

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

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,PB 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	D I G I T A L			
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D:	P. ROSSMAN	DATE: 10-23-78	TITLE PARTS LIST			
---	INIT	D	SECTION VARIATION INDEX	CHK'D:	P. ROSSMAN	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	FL	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

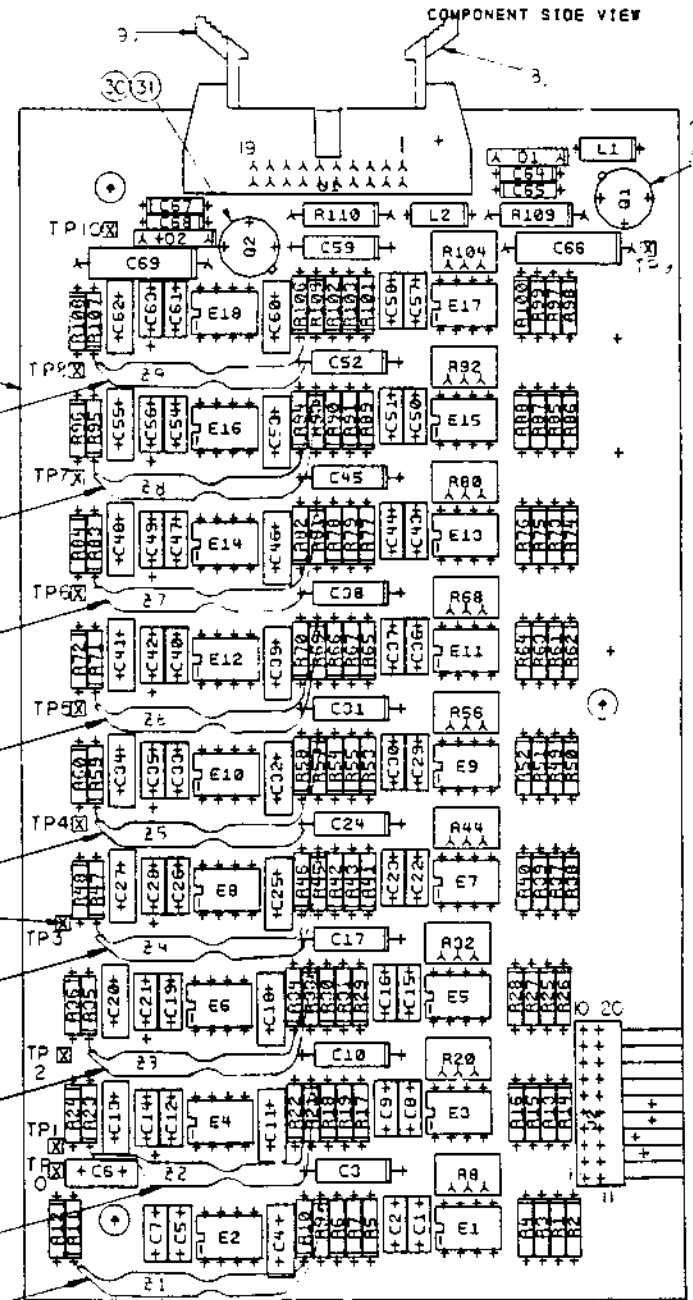
LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
31	31		9107370-00	WIRE,STRND,14AWG,IPVC UL1534	00	A/R

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

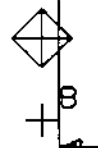
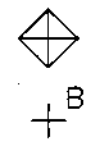
D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							MOTHER BOARD TS04		K	FL	5412989-0-DBF	F

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0-2-2039



- 3-9 (C89, R129)
- 3-8 (C88, R128)
- 3-7 (C87, R127)
- 3-6 (C86, R126)
- 3-5 (C85, R125)
- 3-4 (C84, R124)
- 3-3 (C83, R123)
- 3-2 (C82, R122)
- 3-1 (C81, R121)



NOTES:
 1. NO GK TEST REQUIRED.
 2. SPECIAL TESTER G/17 REQUIRED.

CHANGE NO	REV	BY	DATE
C			

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

SIGNATURES		DATE	digital
DRN. P. NICHOLLS		7-28-78	
CHK. D.		7-28-78	
ENG. J. C. ...		7-28-78	
PROJ. ENG. ...		7-28-78	
PROD. ...		7-28-78	
SCALE 2:1		SIZE CODE	NUMBER
SHT. 1 OF 4		0 UA	G057-0-0
NEXT HIGHER ASSY. B-DC-G057-0			

D UA G057-0-0

8

7

6

5

4

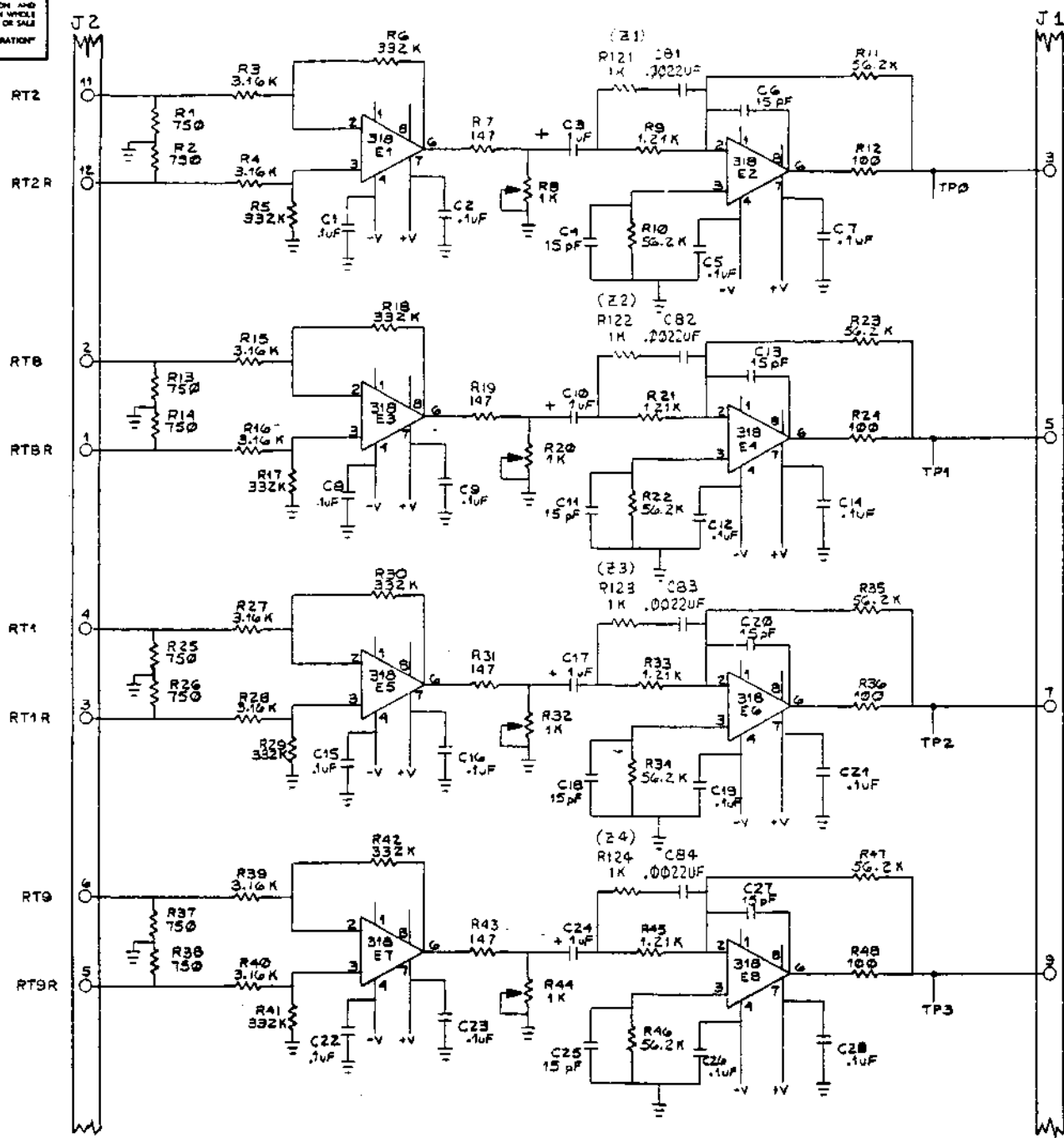
3

2

1

1-0-2509 SCS 2

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REV	CHANGE NO.	REVISIONS
1	1	REVISED AND MILITARY APPROVAL
2	2	REVISED AND MILITARY APPROVAL
3	3	REVISED AND MILITARY APPROVAL
4	4	REVISED AND MILITARY APPROVAL
5	5	REVISED AND MILITARY APPROVAL
6	6	REVISED AND MILITARY APPROVAL
7	7	REVISED AND MILITARY APPROVAL
8	8	REVISED AND MILITARY APPROVAL

DRN. S. EVANS 6-29-78	FIRST USED ON	T504	Digital
CHK'D	9-24-78	TITLE	
END. J. R. ...	9-29-78	T504	
PROJ. ENG. J. R. ...	9-25-78	PRE AMP	
NEXT HIGHER ASSY.			
B-DD-G057-0	SIZE CODE	NUMBER	REV.
SCALE	DCS	G057-0-1	E
SHEET 1 OF 2	DIST.		

REV. E
G057-0-1
DCS

8

7

6

5

4

3

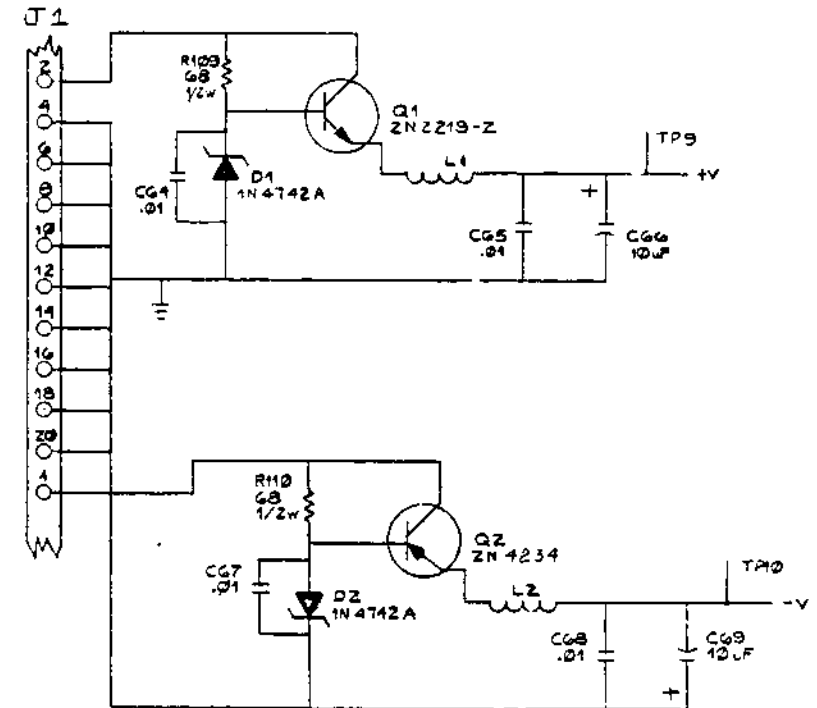
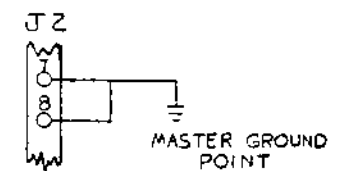
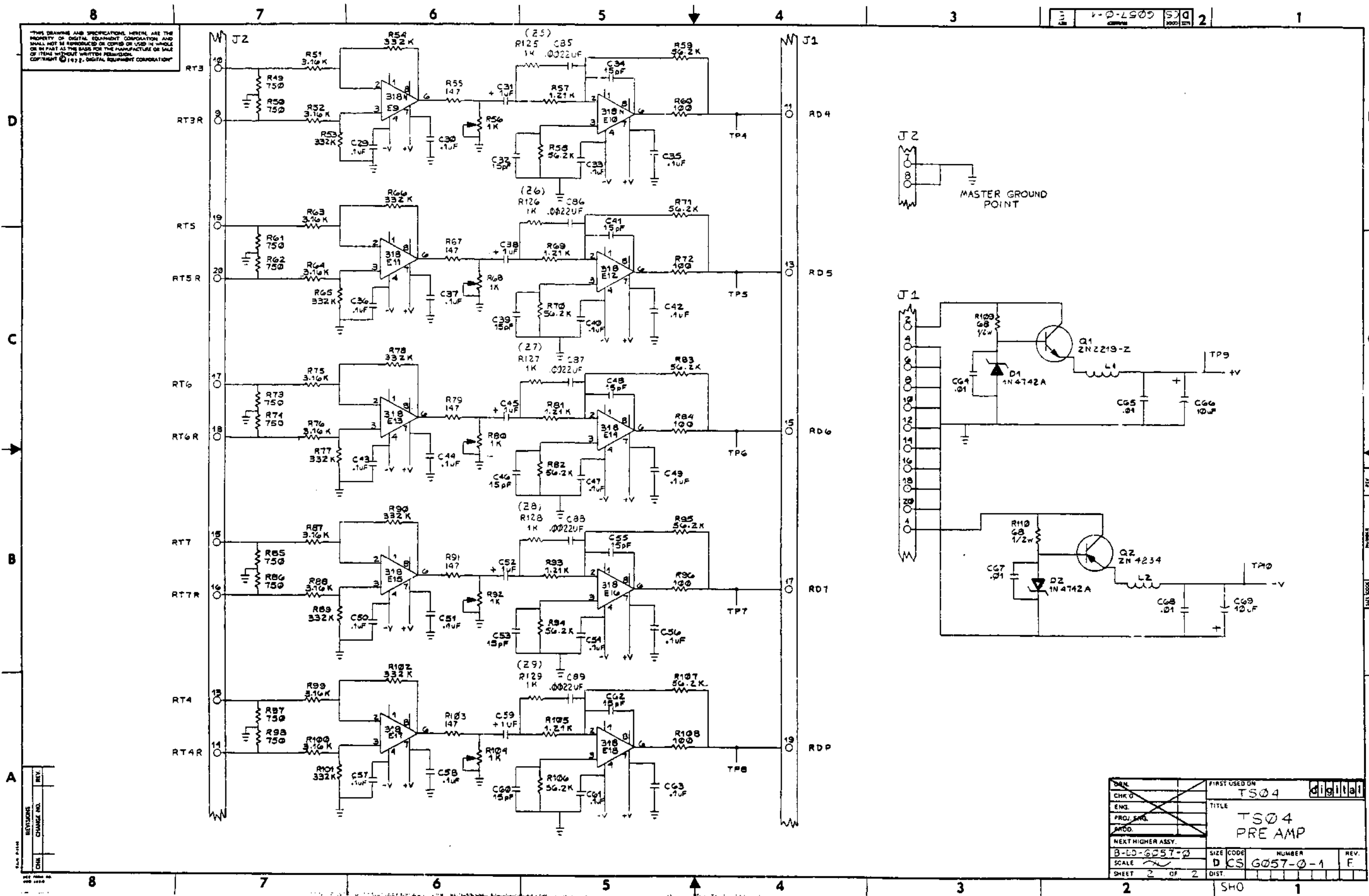
2

1

SHO

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4-0-LS09 SD 2



REV.	
CHANGE INCL.	
CHK.	
REV.	

DESIGNED BY	DATE	FIRST USED ON	digital
CHK'D		TITLE	TS04
ENGR.		PROJECT	TS04
PROJ. ENGR.		NUMBER	PRE AMP
APP'D.		SCALE	D CS
NEXT HIGHER ASSY.		SIZE CODE	G057-0-1
B-LD-6257-0		REV.	F
SCALE		SHEET	2 OF 2
DIST.			

AUTOMATED BY PRTLST.2E(3)

PARTS LIST

SHEET A1 OF A2

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					00		
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
R.N.	G057-SH003	E	[B]	MFG. ENG.: G. DILLARD	DATE: 19-SEP-78	K	PL	G057-0-DBP
			[C]	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME:		EDIT #
			[D]	D-UA-G057-0-0	#B-DD-G057-0	Z0200E.PLS		10
			[E]	"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) 1983. DIGITAL EQUIPMENT CORPORATION"				
			[F]					
			[G]					
			[H]					
			[I]					
			[J]					
			[K]					
			[L]					
			[M]					
			[N]					

AUTOMATED BY PRTLST.2E(3)

P A R T S L I S T

SHEET A2 OF A2

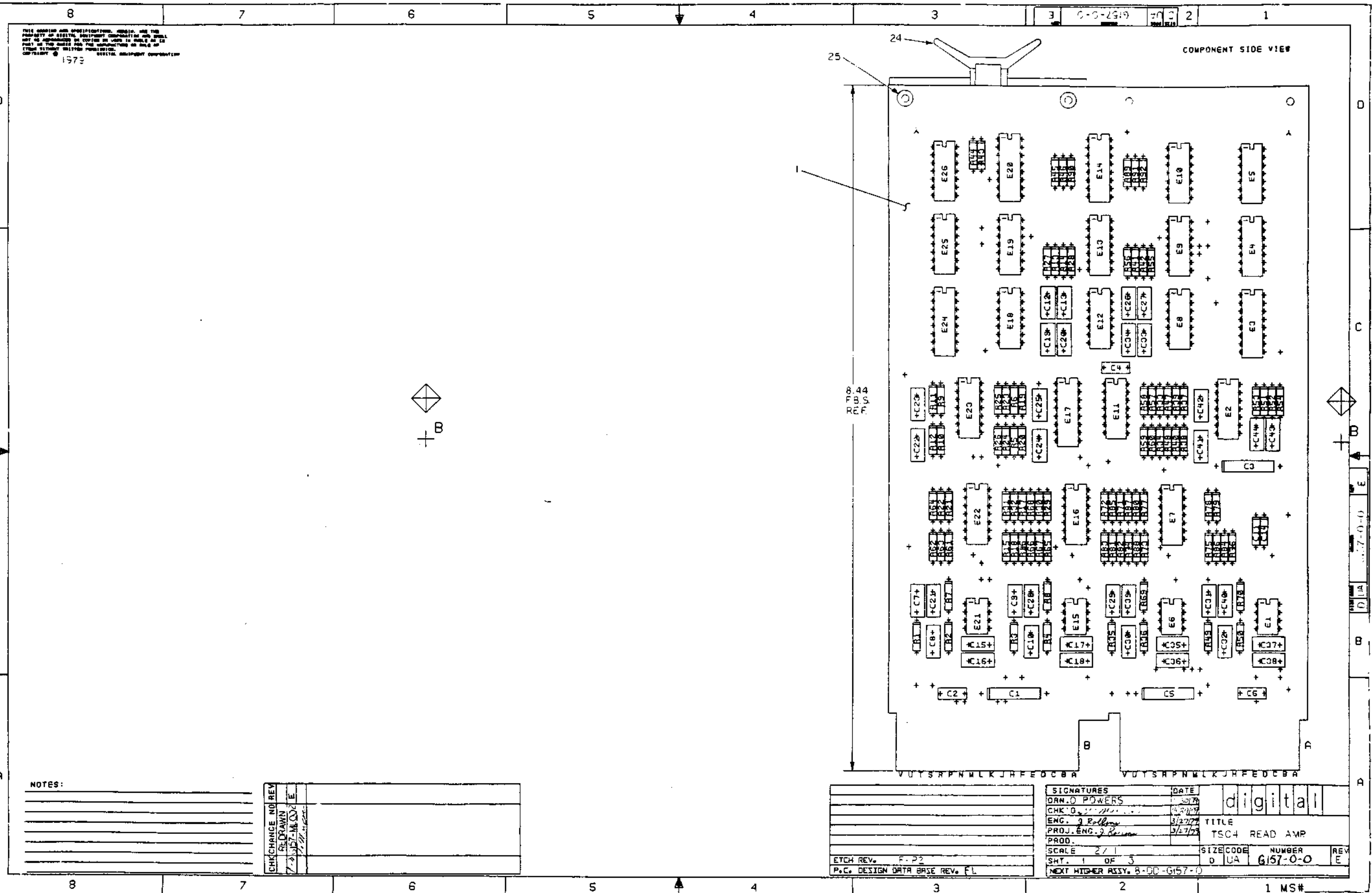
LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
				00		
21	21	1302871-00	1.21 K .25 W 1.0 * RN55D-F10	9	CONT	R97,R98
22	22	1303045-00	3.16 K .25 W 1.0 * RN55D-F10	18	CONT	R9,R21,R33,R45,R57,R69,R81,R93, R105
23	23	1312747-00	56.20 K .25 W 1.0 * RN55D-F10	18	CONT	R3,R4,R15,R16,R27,R28,R39,R40, R51,R52,R63,R64,R75,R76,R87,R88, R99,R100
24	24	1312985-00	332.0 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
25	25	1315900-00	1.0 K .50 W10.0 * POT	9	CONT	R5,R6,R17,R18,R29,R30,R41,R42, R53,R54,R65,R66,R77,R78,R89,R90, R101,R102
26	26	1501883-00	DEC2219-2 NPN 3WC SI 30100 M	1	CONT	R8,R20,R32,R44,R56,R68,R80,R92, R104
27	27	1504809-00	2N 4234 PNP SW TO-5	1		Q1
28	28	1611257-01	CHOKE(CERAMIC BEAD)AXIAL LEAD,ON	2		Q2
29	29	1210385-01	PCB HEADER PIN	11		L1,L2
30	30	1210001-00	HEAT SINKS,TO-5 .500DX0.25	2		TP0-TP10
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	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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 1979

COMPONENT SIDE VIEW

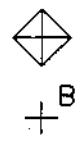
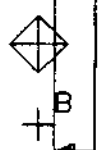


NOTES:

CHG	NO	REV
7	1	E
7	1	E
7	1	E
7	1	E
7	1	E

ETCH REV.	F-22
P.C. DESIGN DATA BASE REV.	F.L

SIGNATURES	DATE	TITLE
ORAN O POWERS	3/27/79	digital
CHK O	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		



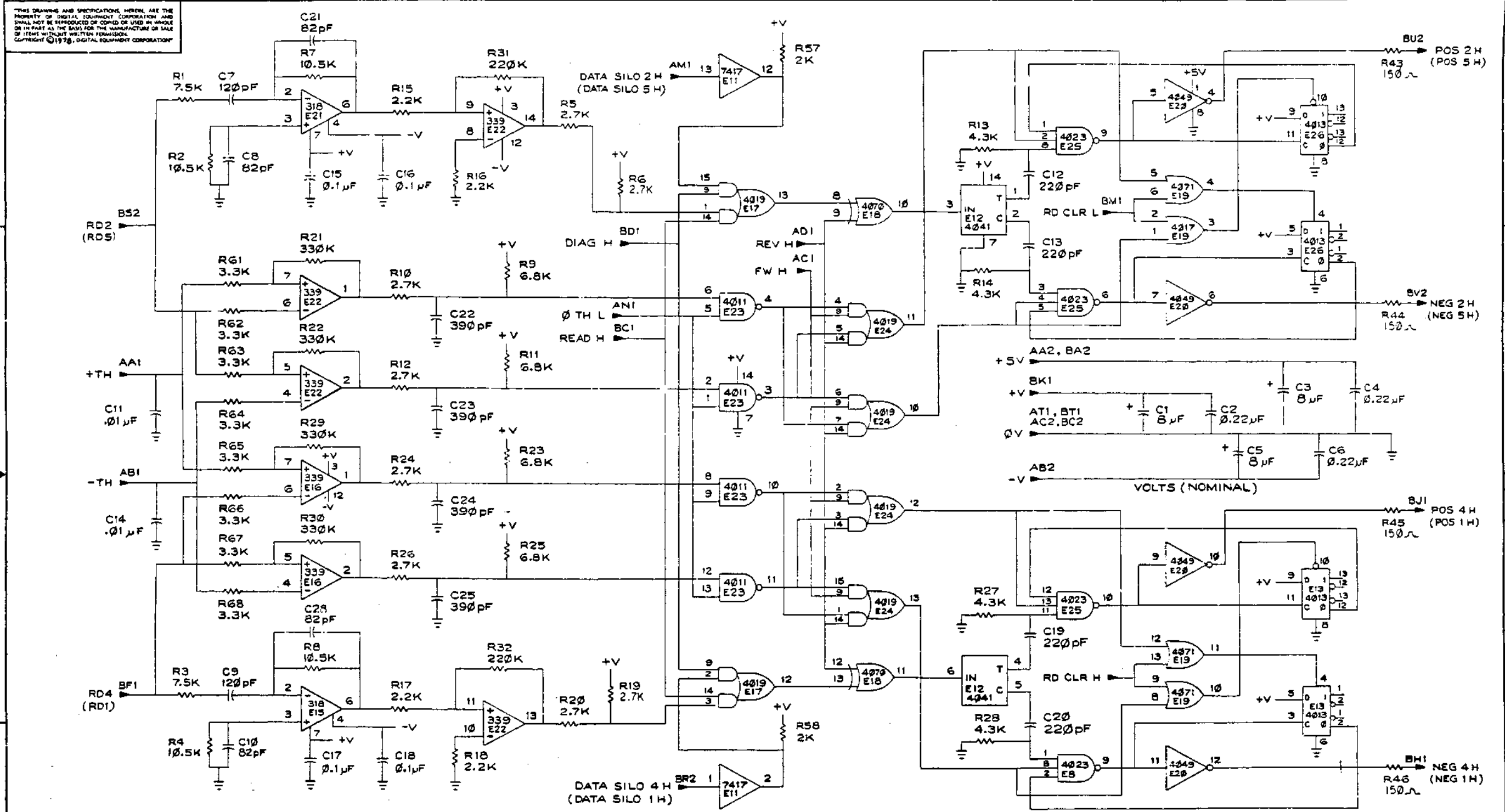
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A B C D

VUYSRPNMLKJHFE DCBA

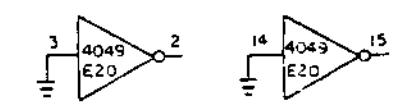
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1-2-2919 300 2



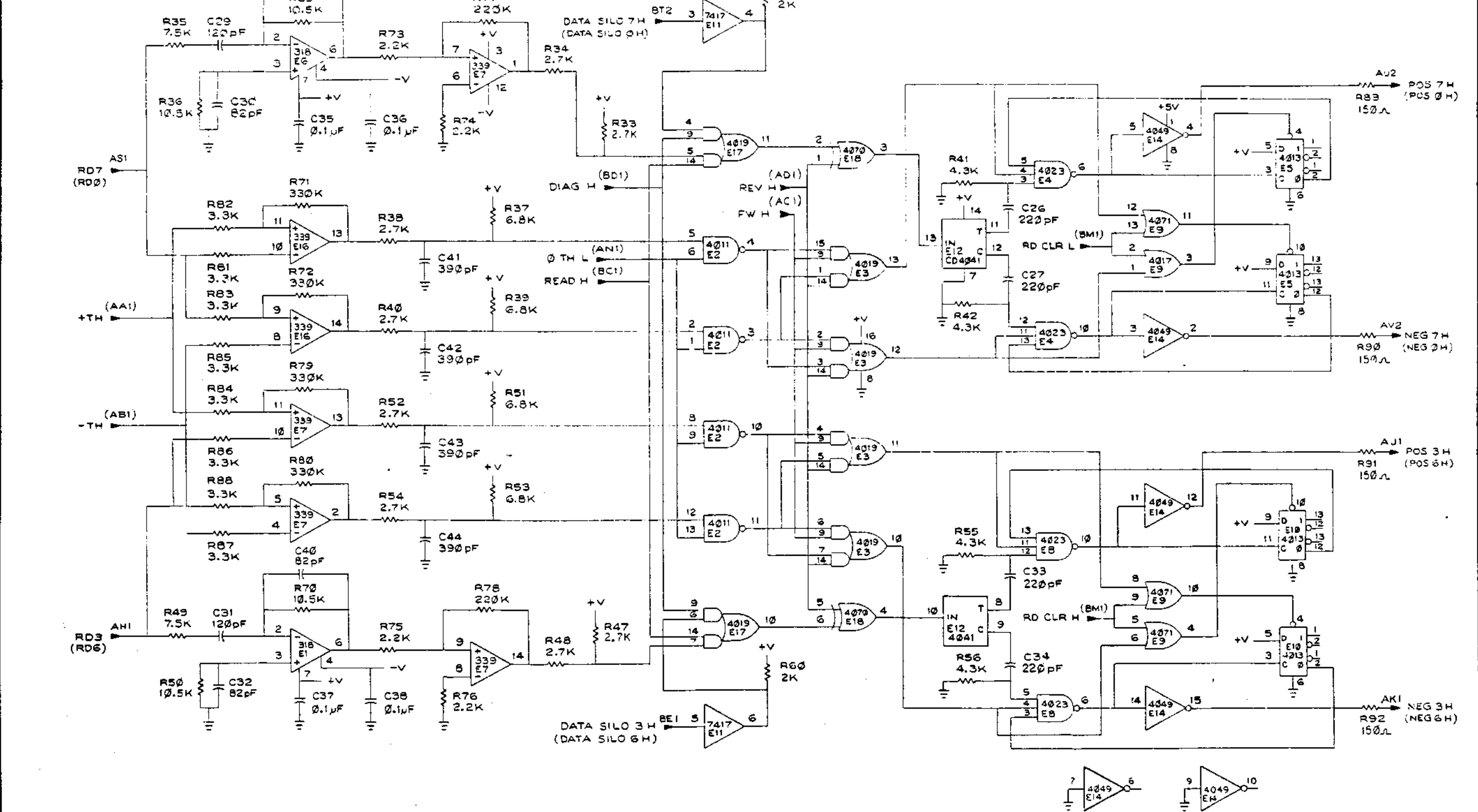
REV.	CHG.	DATE	BY	CHK.
1				
2				
3				
4				
5				
6				
7				
8				

DRN. J. CARTER	6-67	FIRST USED ON	TS04
CHK'D. <i>[Signature]</i>	10-77	TITLE	digital
ENG. J. P. [Signature]	10-8-78		
PROD. ENG. [Signature]	10-8-78		
PROG. [Signature]	10-8-78		
NEXT HIGHER ASSY.			
B-DD-G157-D	SIZE	CODE	NUMBER
SCALE	D	CS	G157-0-1
SHEET 1 OF 2	DIST		REV. E



REV. E
G157-0-1

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REVISIONS		
CHK	CHANGE NO.	REV.

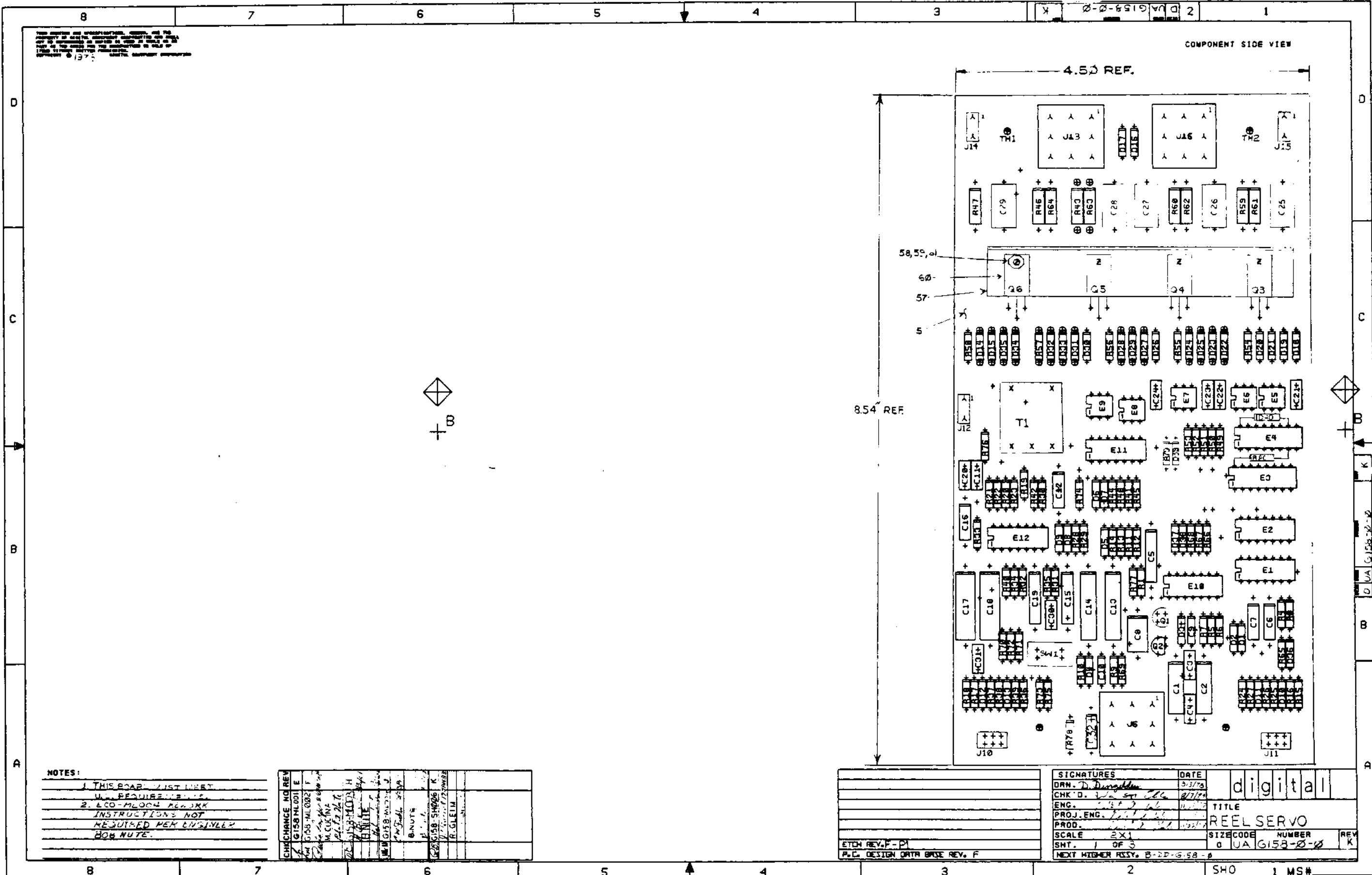
LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					CO		
1	1	D-MD-5011898-0-0	5011898-00	G157	1		
2	2		1013292-00	*** THIS ITEM IS NOT USED ***	-		
3	3		1010274-01	.22 MFI 50V -20+80 Z5U CER	3		C2,C4,C6
4	4		1004813-00	*** THIS ITEM IS NOT USED ***	-		
5	5		1000016-00	*** 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 CHO	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:	0G157	DRN:	P. KENDRICK	DATE:	16-SEP-78	DIGITAL			
ENG	ECO NUMBER	REV	SECTION A OF A		CHK'D:	P. BOSSMAN	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]						DOCUMENT NUMBER			
			[F]		RESP.ENG.:	H. FINDEISEN	DATE:	16-SEP-78	SIZE	CODE	NUMBER	REV
			[G]									
			[H]									
			[I]		MFG.ENG.:	G. DILLARD	DATE:	16-SEP-78	K	PL	G157-0-DBP	E
			[J]									
			[K]									
			[L]		ASSEMBLY NUMBER:					FILE NAME:		EDIT #
			[M]							Z0476E.PLS		7
			[N]		D-UA-G157-0-0							

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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

4.50 REF.

8.54 REF.

NOTES:

1. THIS BOARD MUST MEET ALL REQUIREMENTS.
2. ECO-MATCH PERFORM INSTRUCTIONS NOT REQUIRED PER ENVIRONMENT FOR NOTE.

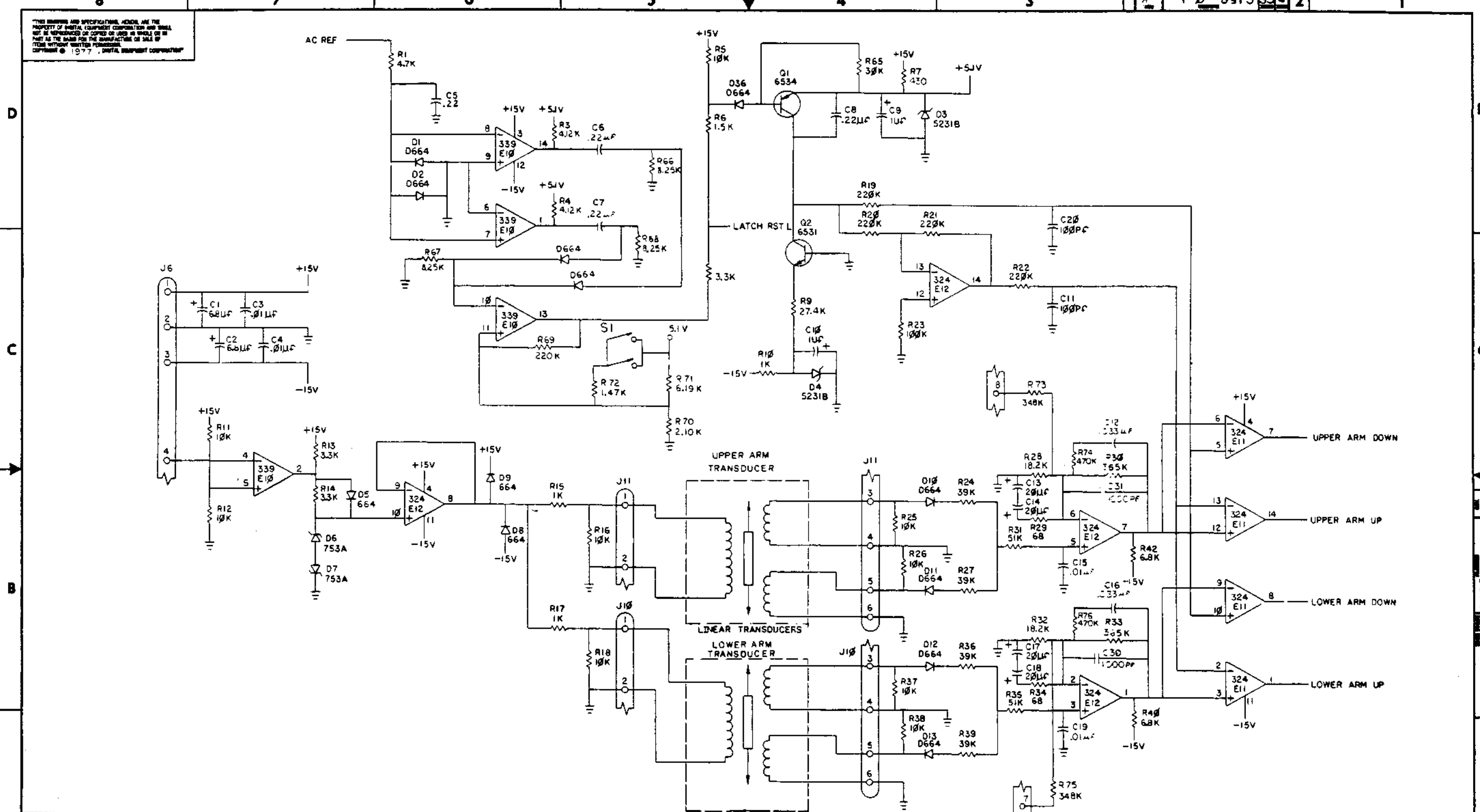
CHANGE NO.	REV.	DATE	BY	CHKD.	DESCRIPTION
1	1	5/28/75	MLC	MLC	INITIAL
2	1	6/12/75	MLC	MLC	INITIAL
3	1	6/12/75	MLC	MLC	INITIAL
4	1	6/12/75	MLC	MLC	INITIAL
5	1	6/12/75	MLC	MLC	INITIAL
6	1	6/12/75	MLC	MLC	INITIAL
7	1	6/12/75	MLC	MLC	INITIAL
8	1	6/12/75	MLC	MLC	INITIAL

SIGNATURES		DATE	digital
DRN. D. Duggan		5/27/75	
CHK. D. Duggan		5/27/75	
ENG. J. J. J.		5/27/75	
PROJ. ENG. J. J. J.		5/27/75	
PROD. J. J. J.		5/27/75	
SCALE 2X1			TITLE REEL SERVO
SMT. 1 OF 3			SIZE CODE NUMBER
NEXT HIGHER ASSY. B-22-6-58-8			0 UA G158-2-2

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

SHO 1 MS#

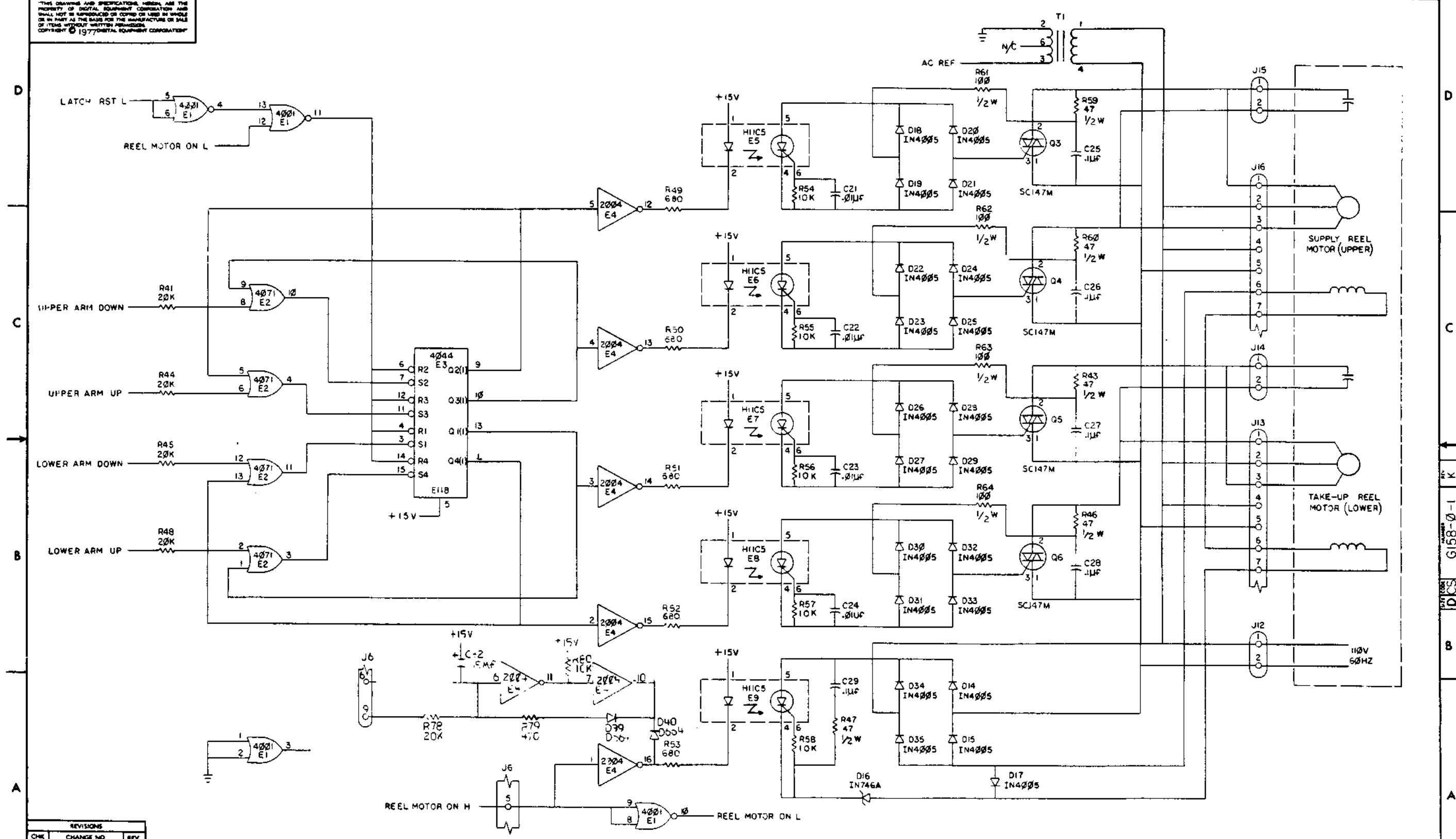
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REV.	DATE	BY	CHKD.	DESCRIPTION
1	11-4-77	R. NUTE		REVISED FOR TS04
2	11-22-77	M. CUCINA		REVISED FOR TS04
3	11-22-77	R. GLEIM		REVISED FOR TS04
4	11-22-77	R. GLEIM		REVISED FOR TS04
5	11-22-77	R. GLEIM		REVISED FOR TS04
6	11-22-77	R. GLEIM		REVISED FOR TS04
7	11-22-77	R. GLEIM		REVISED FOR TS04

DRN. DATE	11-4-77	FIRST USED ON	TS04
CHKD.	11-22-77	TITLE	TS04 REEL SERVO
ENG. H. FROST	11-22-77	PROJ. NO.	11-22-77
PROJ. ENG. H. FROST	11-22-77	REV.	1
B-00-G-58-0		SIZE CODE	D CS
SCALE		NUMBER	G158-0-1
SHEET 1 OF 2		DRY.	

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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 GS\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 0041 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: 06158		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:	D-UA-G158-0-0	TOP DOCUMENT NUMBER:	TS04	FILE NAME:		EDIT #	
BN	G158-ML004	J	[D]					Z0464K.PLS		23	
RG	G158-SH006	K	[E]								
			[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		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.
						CONT	R38,R54-R58,R80
33	33		1313349-00	*** THIS ITEM IS NOT USED ***	-		
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

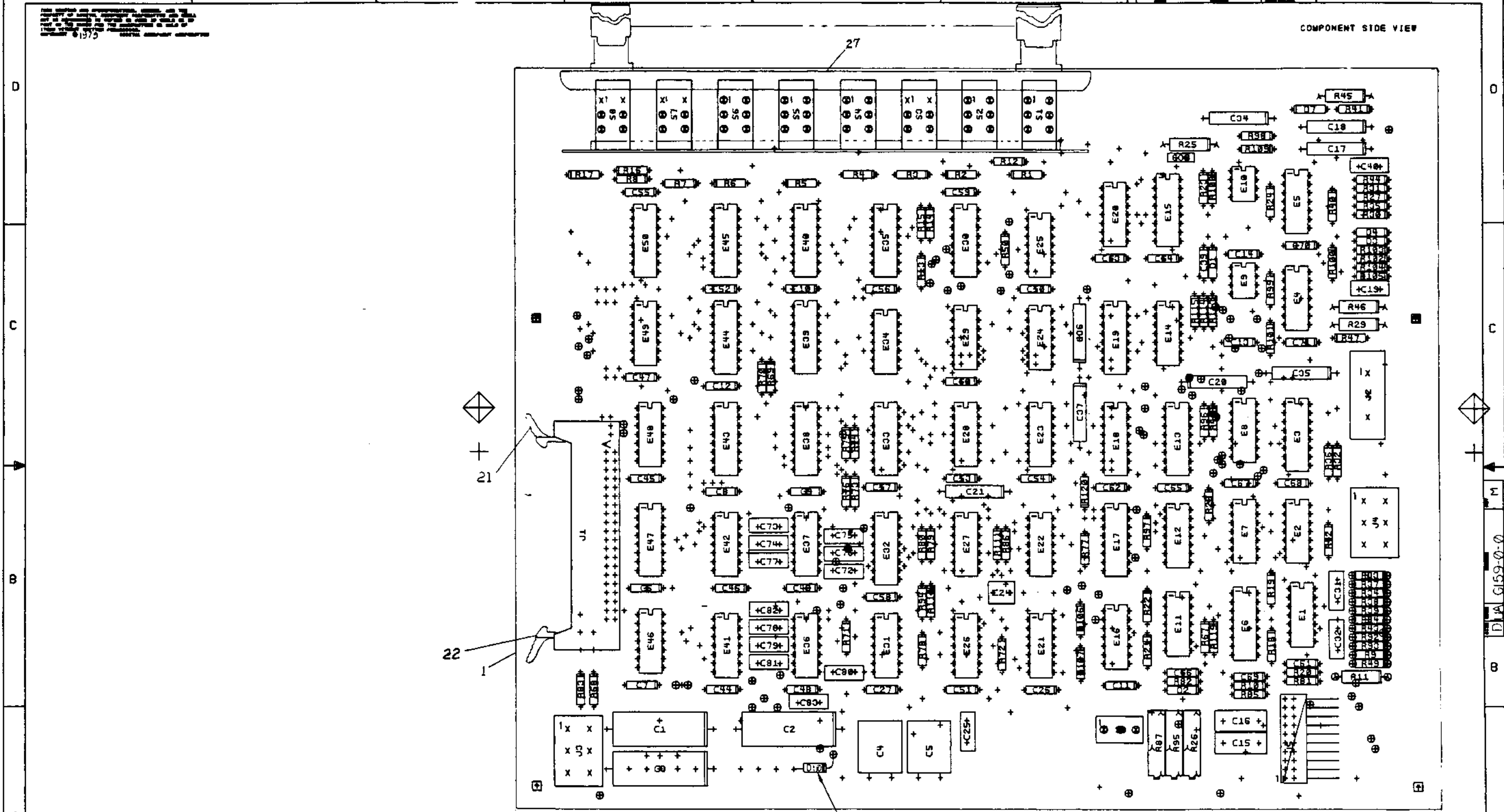
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P A R T S L I S T

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



NOTES:

STEP C	+ Y AXIS	STEP	TIMES
REPORT	+ X AXIS	STEP	TIMES

CHG	NO	REV	DATE	BY	CHK'D
01	01	01	11/27/57	B. KRASNOX	
02	01	01	11/27/57	R. NUTE	
03	01	01	11/27/57	R. NUTE	
04	01	01	11/27/57	R. NUTE	
05	01	01	11/27/57	R. NUTE	
06	01	01	11/27/57	R. NUTE	
07	01	01	11/27/57	R. NUTE	
08	01	01	11/27/57	R. NUTE	
09	01	01	11/27/57	R. NUTE	
10	01	01	11/27/57	R. NUTE	

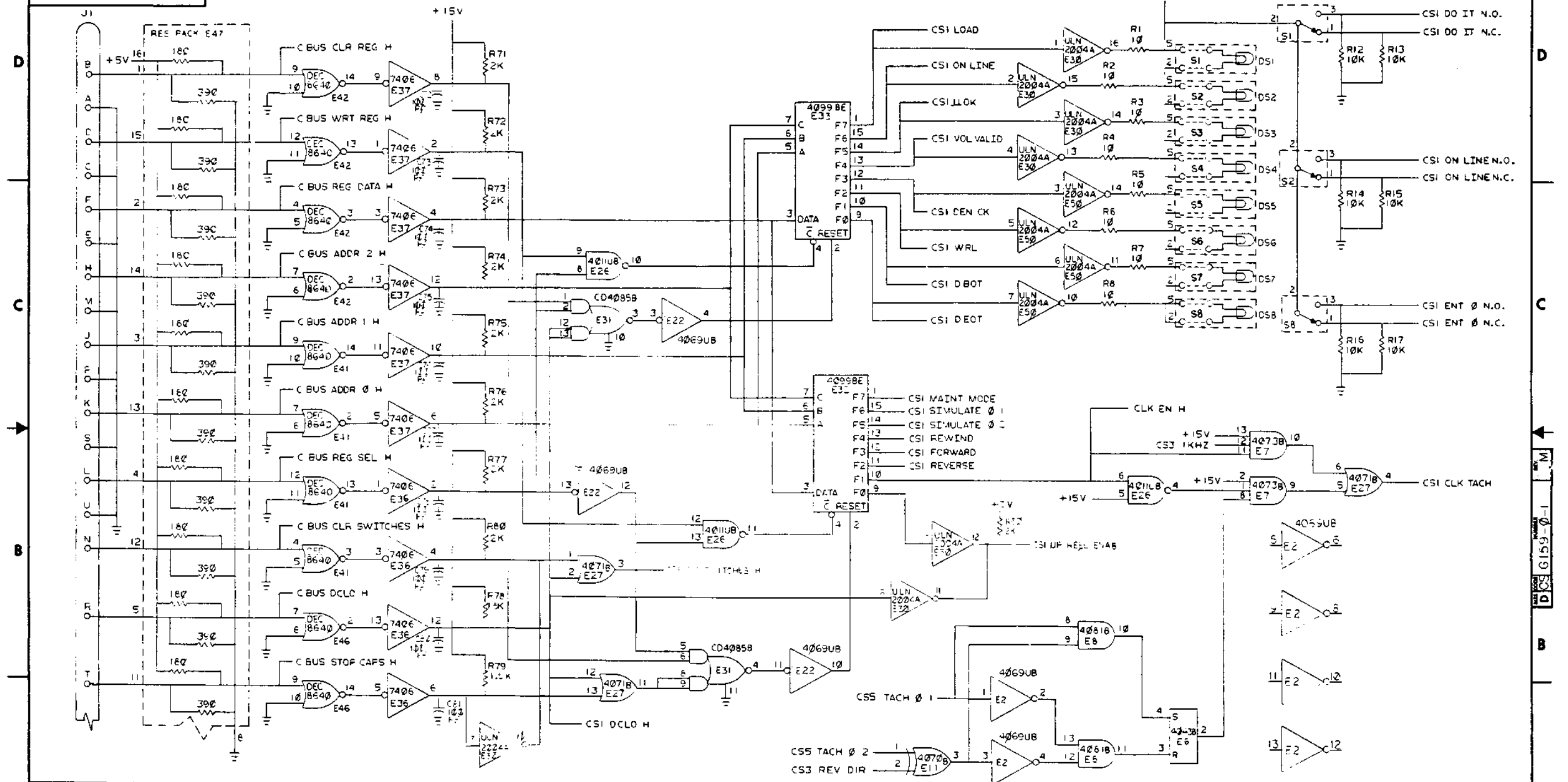
ETCH REV. F-P

SIGNATURES	DATE
DRN. <i>[Signature]</i>	11/27/57
CHK'D. <i>[Signature]</i>	11/27/57
MECH. ENG. <i>[Signature]</i>	11/27/57
PROJ. ENG. <i>[Signature]</i>	11/27/57
PROD. <i>[Signature]</i>	11/27/57
SCALE 2X	
SHT. OF 4	
NEXT HIGHERassy. BDD-G159-0	

digital	TITLE CAPSTAN SERVO	REV M
SIZE CODE	NUMBER 0	REV M
0	UA/G159-0-0	

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1-0-6519 50 2

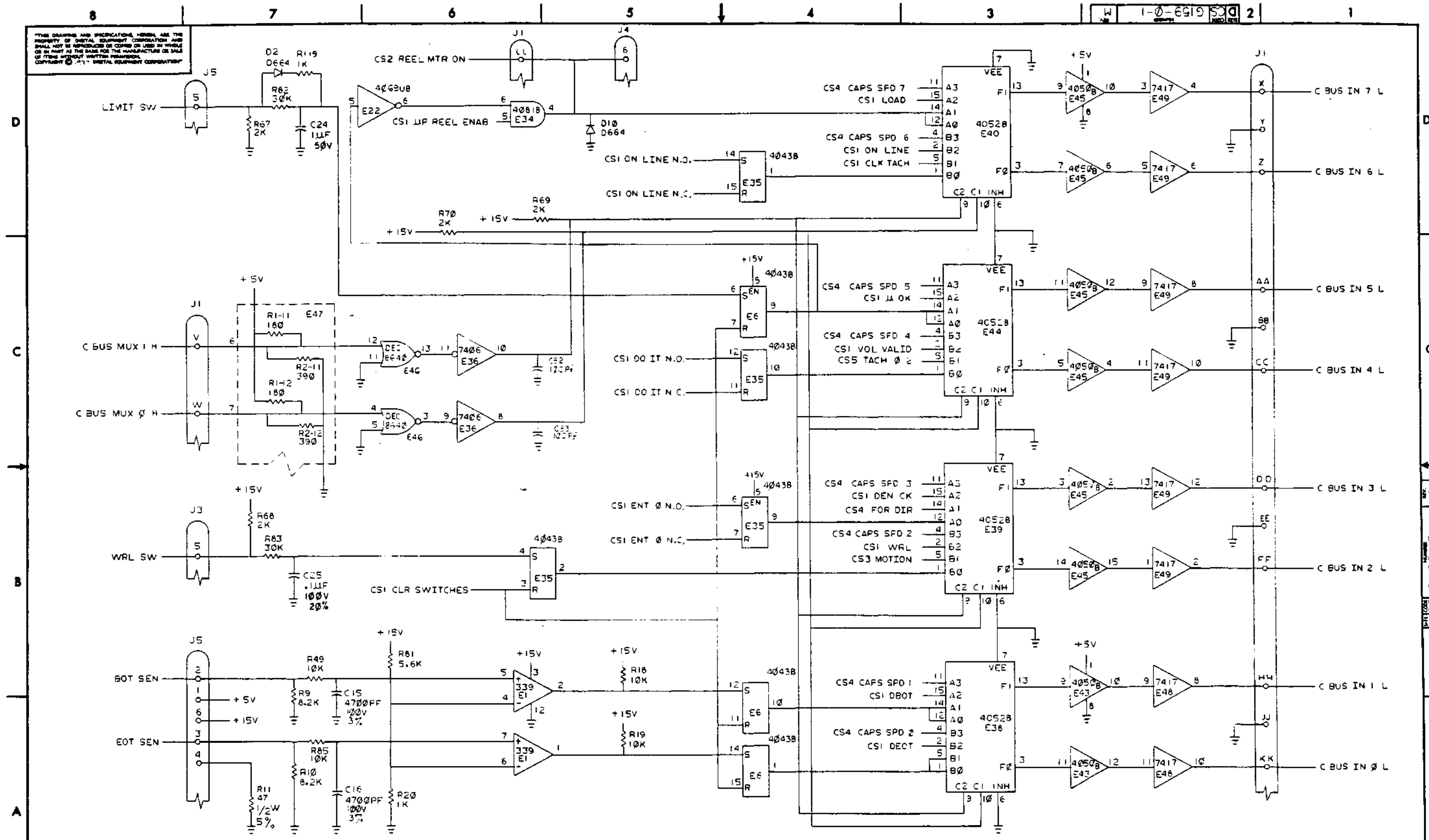


REV.	CHG.	DATE	BY	CHKD.
1				
2				
3				
4				
5				
6				
7				
8				

DRN: 1-0-6519-01	FIRST USED ON: TSII digital
CHK'D: 1-0-6519-01	TITLE: CAPSTAN SERVO (CSI)
ENGR: 1-0-6519-01	SIZE CODE: D
PROJ. ENG.: 1-0-6519-01	NUMBER: CS1 G159-0-1
PROD. DATE: 1-0-6519-01	REV. M
NEXT HIGHER ASSY:	SCALE: NONE
B-00-G159-0	SHEET 1 OF 5

D CS G159-0-1 M

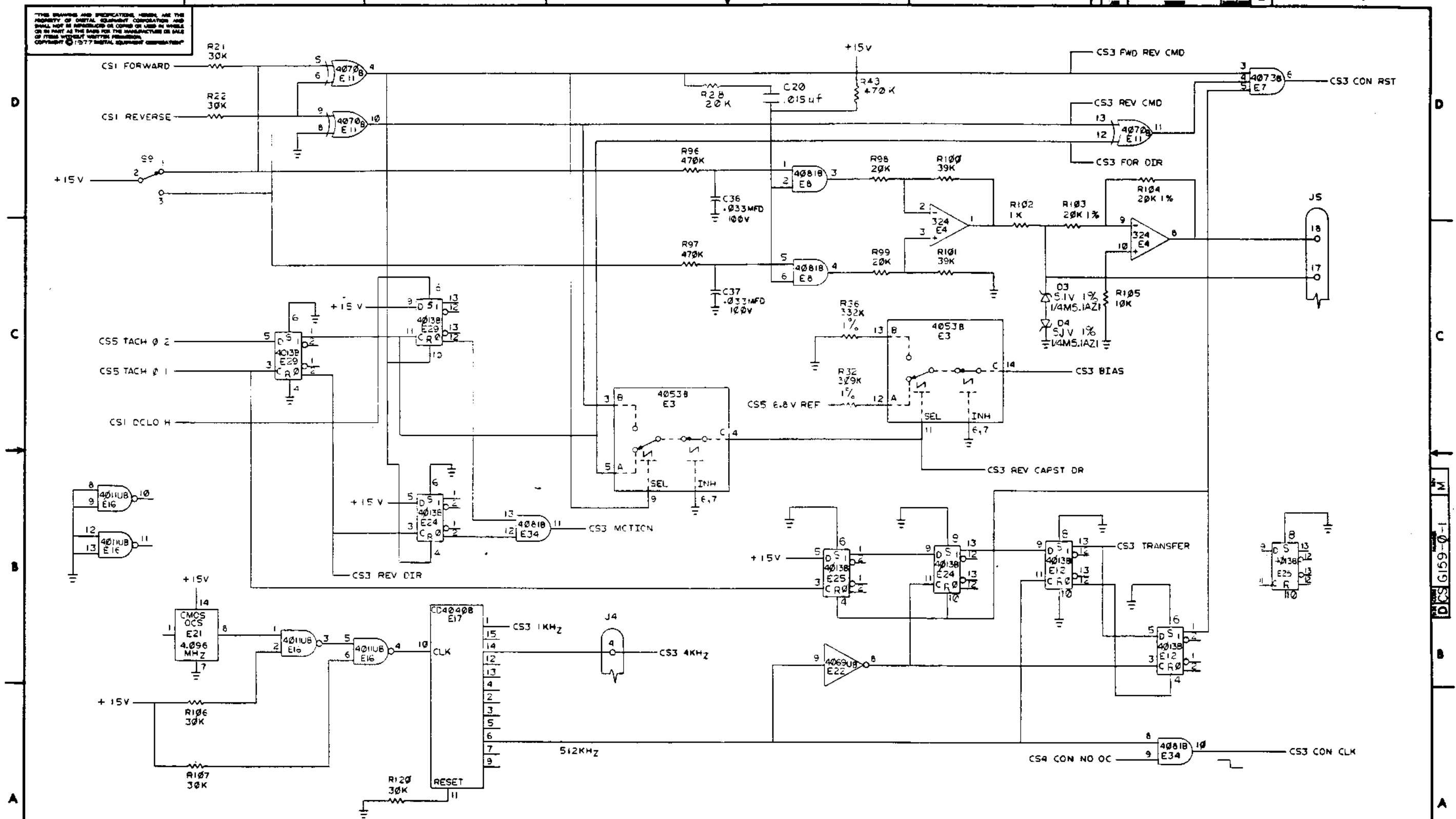
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REVISIONS		
CHK	CHANGE NO.	REV.

DCS G159-0-1 M

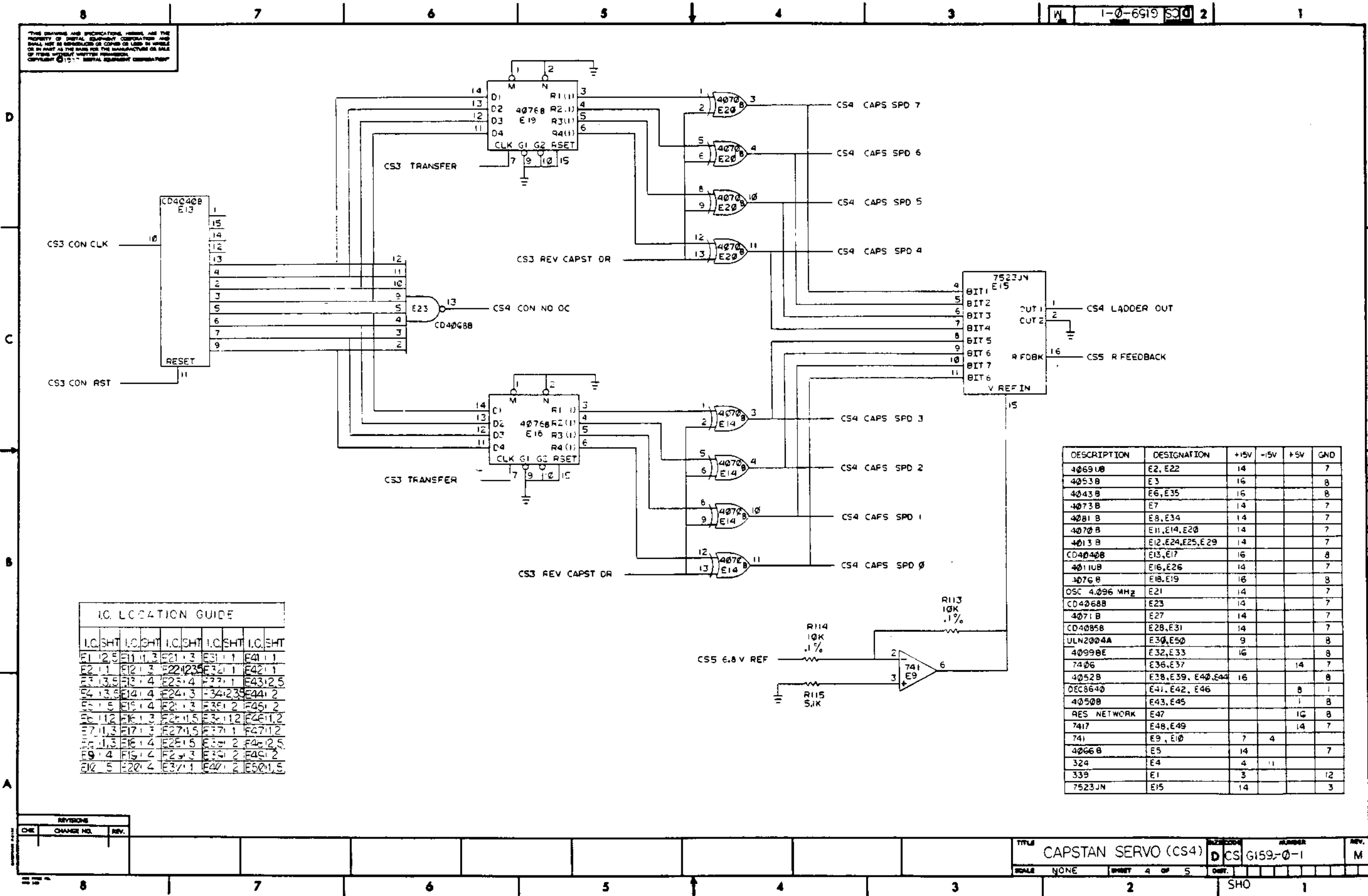
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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	CAPSTAN SERVO (CS3)	NO. 0004	NUMBER	REV.
SCALE	NONE	SHEET	3 OF 5	DWT.
D CS G159-0-1				M

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IC LOCATION GUIDE

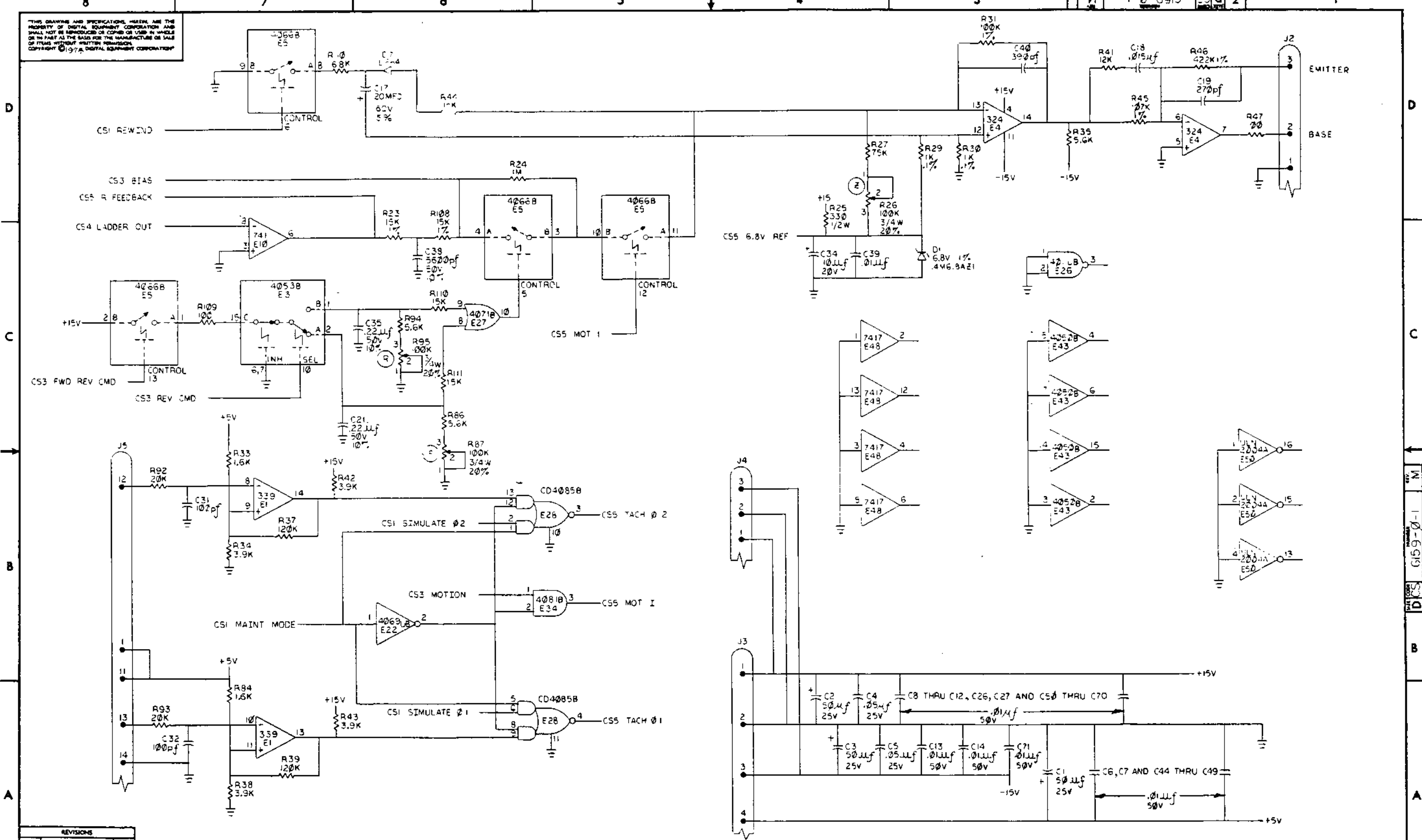
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E3	13,5	E13	1,4	E23	1,4	E33	1,1	E43	12,5
E4	13,5	E14	1,4	E24	1,3	E34	12,3	E44	1,2
E5	1,5	E15	1,4	E25	1,3	E35	1,2	E45	1,2
E6	11,2	E16	1,3	E26	11,5	E36	11,2	E46	11,2
E7	11,3	E17	1,3	E27	11,5	E37	1,1	E47	11,2
E8	11,3	E18	1,4	E28	1,5	E38	1,2	E48	12,5
E9	1,4	E19	1,4	E29	1,3	E39	1,2	E49	1,2
E10	1,5	E20	1,4	E30	1,1	E40	1,2	E50	1,5

DESCRIPTION	DESIGNATION	+5V	-5V	+5V	GND
4069L0	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
40110B	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.

REV. M
G159-0-1

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)

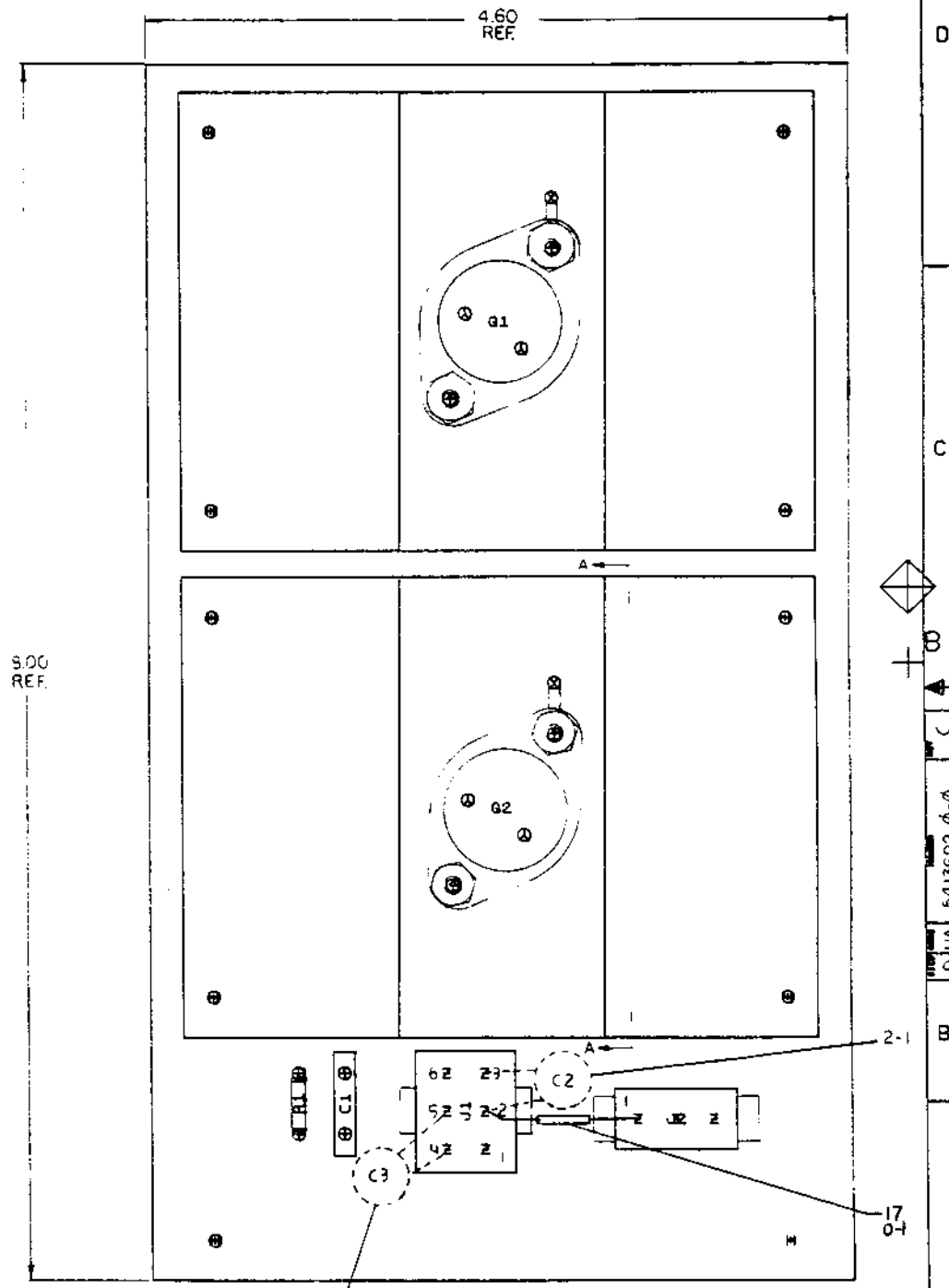
PARTS LIST

SHEET A3 OF A3

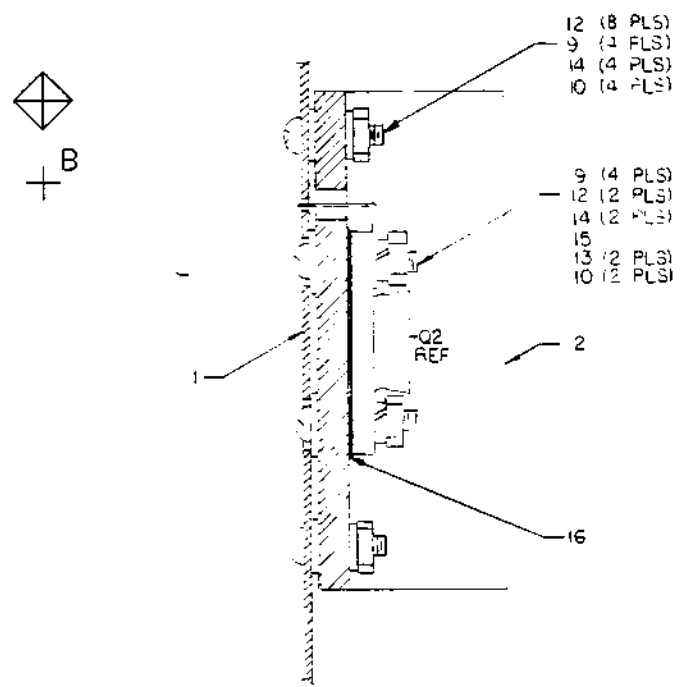
LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
79	79		2113642-00	4081B AND GATE-QUAD 2IN CM	2	E34,E8
80	80		2113946-00	4053B MULTIPLEXER 2CHAN CM	1	E3
81	81		2114462-00	4040B COUNTER/DIVIDER,BINA	2	E13,E17
82	82		2114463-00	4068B NAND GATE,8IN	1	E23
83	83		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	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							CAPSTAN SERVO		K	PL	G159-0-0SP	M

COMPONENT SIDE VIEW



SECTION 'A A' 2 PLACES



THIS DRAWING AND SPECIFICATIONS, WHETHER FOR THE
 PURPOSE OF ASSEMBLY, REPAIR, OR FOR THE
 PURPOSE OF TESTING, SHALL BE VALID IN ALL
 CASES IN THE EVENT OF ANY DISCREPANCY IN ALL
 CASES BETWEEN THE DRAWING AND THE PARTS
 LISTED THEREON. DATE: 11/17/79

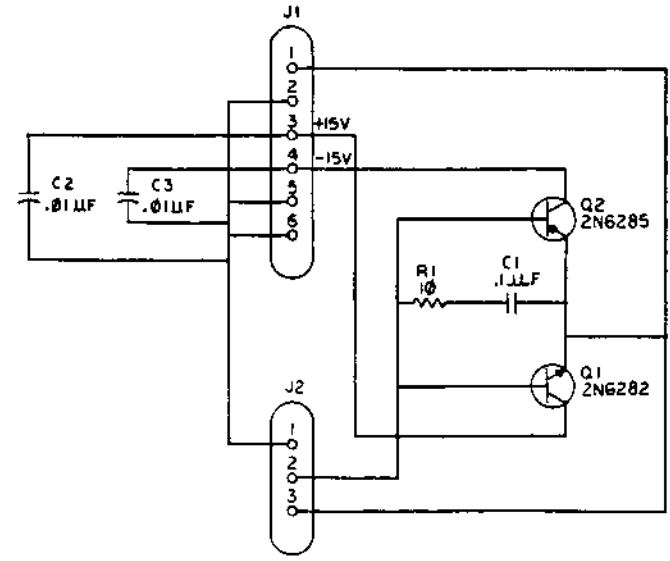
NOTES: 1. THIS BOARD MUST BE UL APPROVED.
 2. C2 AND C3 CAPACITORS ARE MOUNTED
 TO THE BOARD ON SIDE 2.

CHANGE NO	REV	DATE	BY	CHK'D	APP'D
5413692-M1	B	11/17/79	B. KRASNICK		
5413692-C	C	11/17/79			
R. NOTE					

SIGNATURES		DATE	TITLE
DRN. J. FITZGERALD		11/17/79	
CHK'D. [Signature]		11/17/79	
ENC. 6 [Signature]		11/17/79	
PROD. [Signature]		11/17/79	
SCALE 2/1			SIZE CODE
SHT. 1 OF 4			NUMBER
NEXT HIGHER ASSY: 6-00-5413692-0			REV

1-0-265215-950 2

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REV.	DATE	BY	CHKD.
B	11/10/77	B. KRASNICK	
A	11/10/77	R. NUTE	

DRW. <i>[Signature]</i>	DATE <i>11/10/77</i>	FIRST USED ON	TS11
CHKD. <i>[Signature]</i>	DATE <i>11/10/77</i>	TITLE	CAPSTAN DRIVER BOARD
ENGR. <i>[Signature]</i>	DATE <i>11/10/77</i>	NEXT HIGHER ASSEMBLY	
PROJ. ENG. <i>[Signature]</i>	DATE <i>11/10/77</i>	SCALE	1:1
SHEET 1 OF 1	DIET.	SIZE CODE	NUMBER
		D CS	5413692-0-1 C
		SHO	1

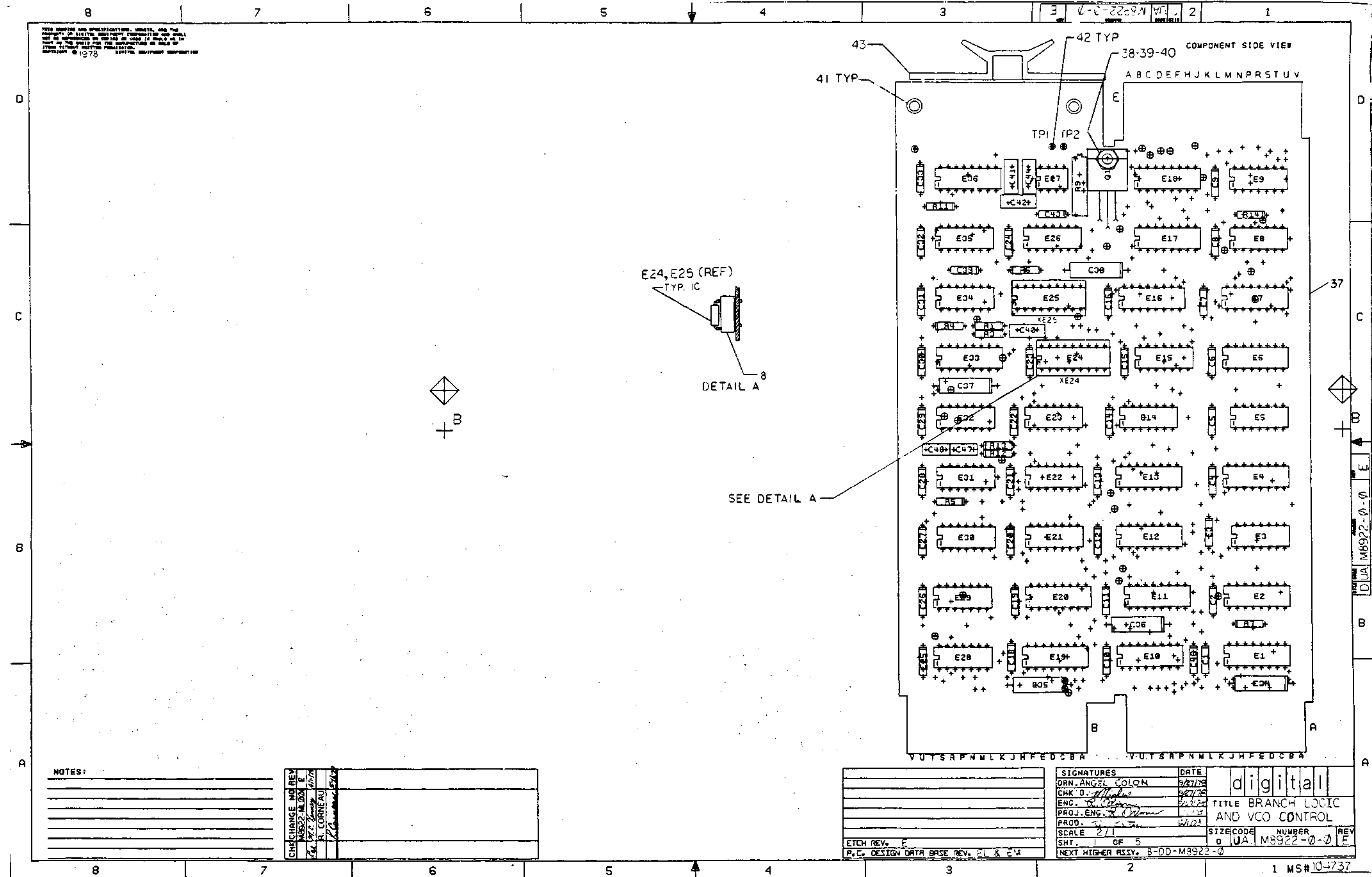
LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
1	1	5413691-00	DRILL & ETCH BD	1	
2	2	1216232-00	HEAT SINK 3 X 4-1/8	2	
3	3	1516120-01	PNP 160W SI 60 750 DA	1	G2
4	4	1516120-00	PNP 160W SI 60 750 DA	1	G1
5	5	1000030-00	.1 MFD 100V 20% Z5U DISC	1	C1
6	6	1212297-03	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	9008268-00	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	ECN 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)	DES. ENG:	R. KRASNICK	DATE:	08-NOV-78	SIZE:	CODE:	NUMBER	REV
			(C)								
			(D)	RESP. ENG.:	B. KRASNICK	DATE:	25-SEP-78				
			(E)								
			(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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UA M8922-0-0 2



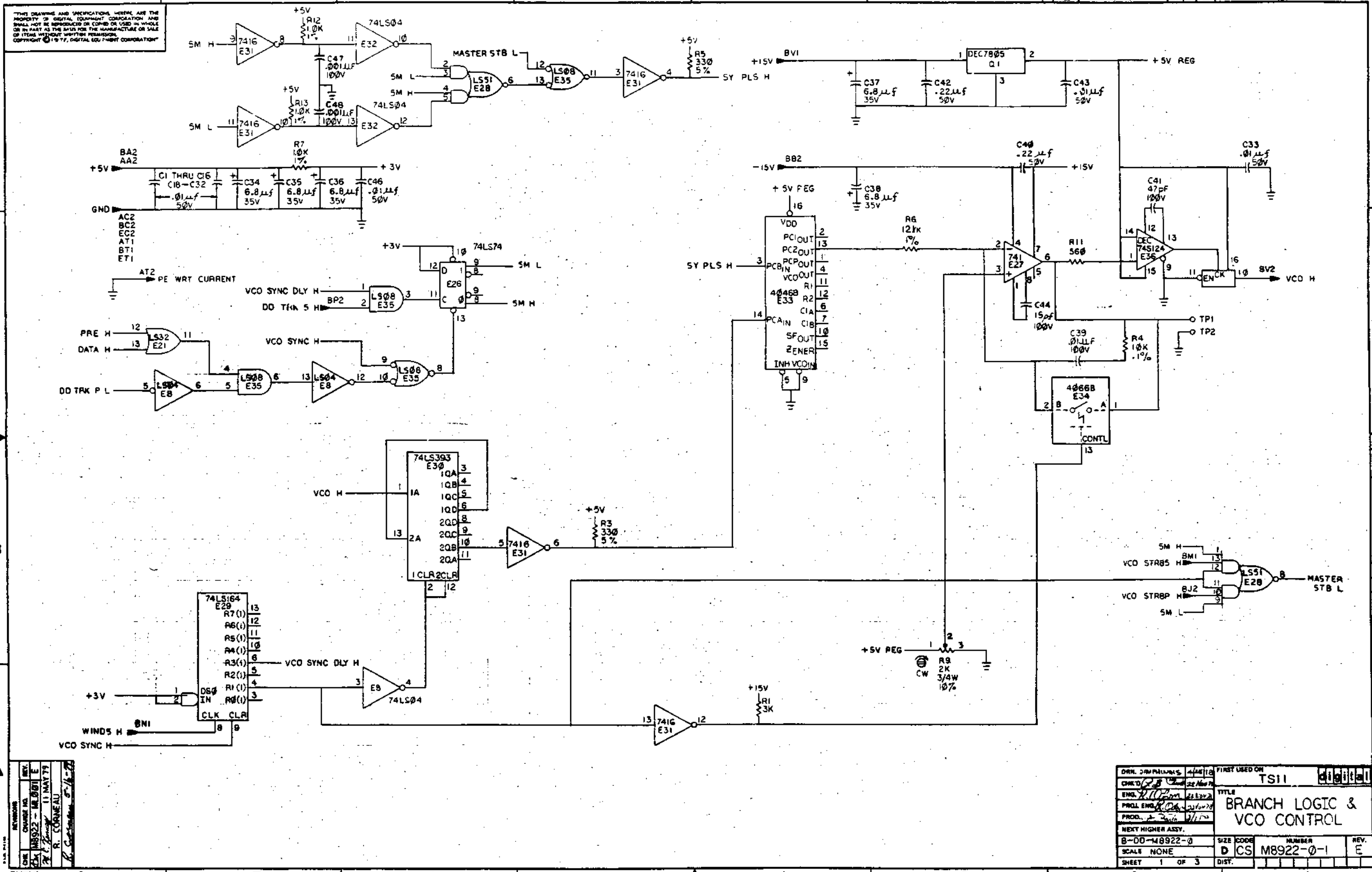
NOTES:

CHANGE NO	REV	DATE	BY	CHK
M8922-0-000	E	9/27/78	R. CORNEAU	

ETCH REV. E
P.C. DESIGN DATA BASE REV. EL & C14

SIGNATURES		DATE	digital
DRN. ANGEL COLON		9/27/78	
CHK. O. Miller		9/27/78	TITLE BRANCH LOGIC AND VCO CONTROL
ENG. R. Corneau		9/27/78	
PROJ. ENG. X. O'Connell		9/27/78	SIZE CODE NUMBER REV 0 UA M8922-0-0 E
PROD. J. J. J.		9/27/78	
SCALE 2/1			
SHT. 1 OF 5			
NEXT HIGHER ASSY. 8-00-M8922-0			

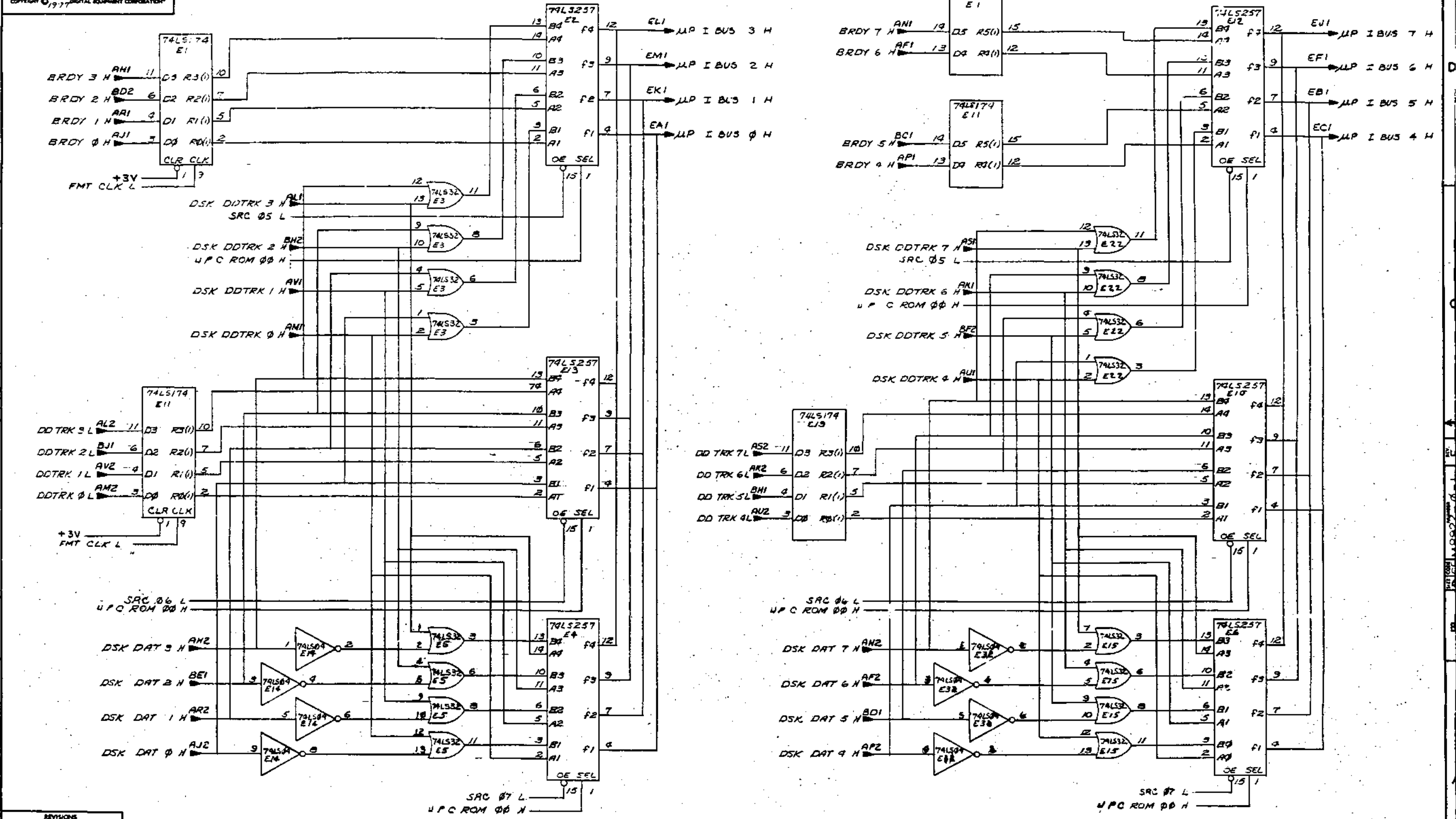
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REV.	REV.
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8

OWN. DR. PALLAS	DATE	FIRST USED ON	TS11
CHKD. <i>[Signature]</i>	DATE		
ENGR. <i>[Signature]</i>	DATE		
PROL. ENGR. <i>[Signature]</i>	DATE		
PROD. <i>[Signature]</i>	DATE		
NEXT HIGHER ASSY.			
B-00-M8922-0	SIZE	CODE	NUMBER
SCALE NONE	D	CS	M8922-0-1
SHEET 1 OF 3	DIST.		REV.

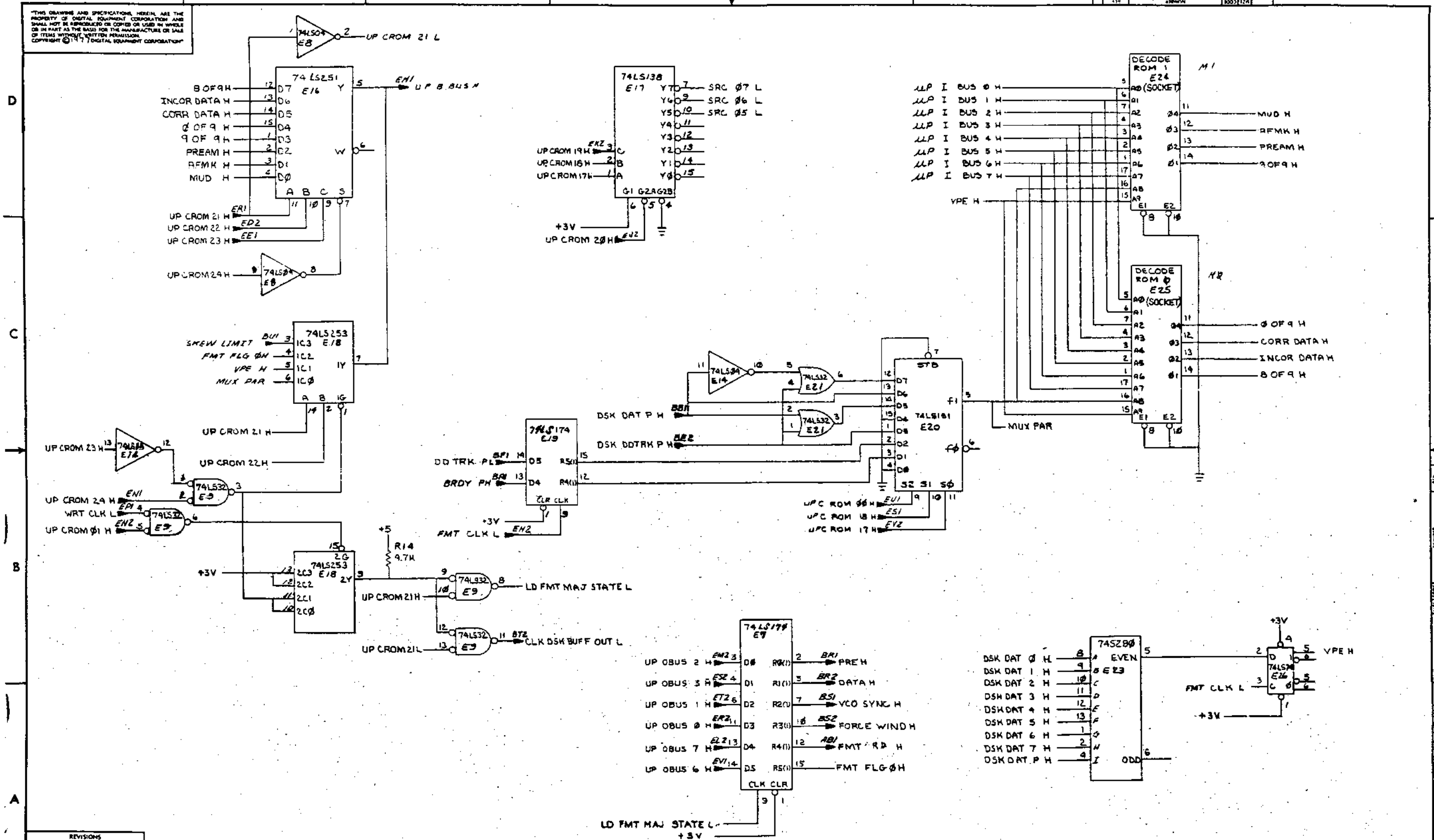
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REVISIONS		
CHK	CHANGE NO.	REV.

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3 1-0-2268W 2



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	BRANCH LOGIC & VCO CONT.	SIZE CODE	DCS	NUMBER	M8922-0-1	REV.	E
SCALE	NONE	SHEET	3 OF 3	DIST.			

DCS M8922-0-1 E

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
1	37	5012776-00	M8922	1	
2	1	1000011-00	47.0 MFD 100V 5%200PPM DM15S	1	C41
3	2	1000042-00	1000.0 MFD 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 MFD 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% 663VM MYLR	1	C39
8	7	1010274-00	.22 MFD 50V -20+80 Z5U CER	2	C40,C42
9	8	1211506-00	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	24	1911911-00	DEC 74S124 OSCILLATOR,DUAL VOLT	1	E30
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	D I G I T A L			
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	DATE:	21-JUN-78	BRANCH LOGIC & VCO CONTROL			
R,C	M8922-ML001	E	(A)	00	DES.ENG:	R,ODOM	DATE:	10 NOV 78	DOCUMENT NUMBER			
			(B)		RESP.ENG.:	R,ODOM	DATE:	10 NOV 78	SIZE	CODE	NUMBER	REV
			(C)		MFG.ENG.:	P,HANTON	DATE:	10 NOV 78	K	PL	M8922-0-DBP	E
			(D)		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:	EDIT #		
			(E)		D-UA-M8922-0-00		ITS04		Z0564E.PLS	23		
			(F)									
			(G)									
			(H)									
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			(L)									
			(M)									
			(N)									

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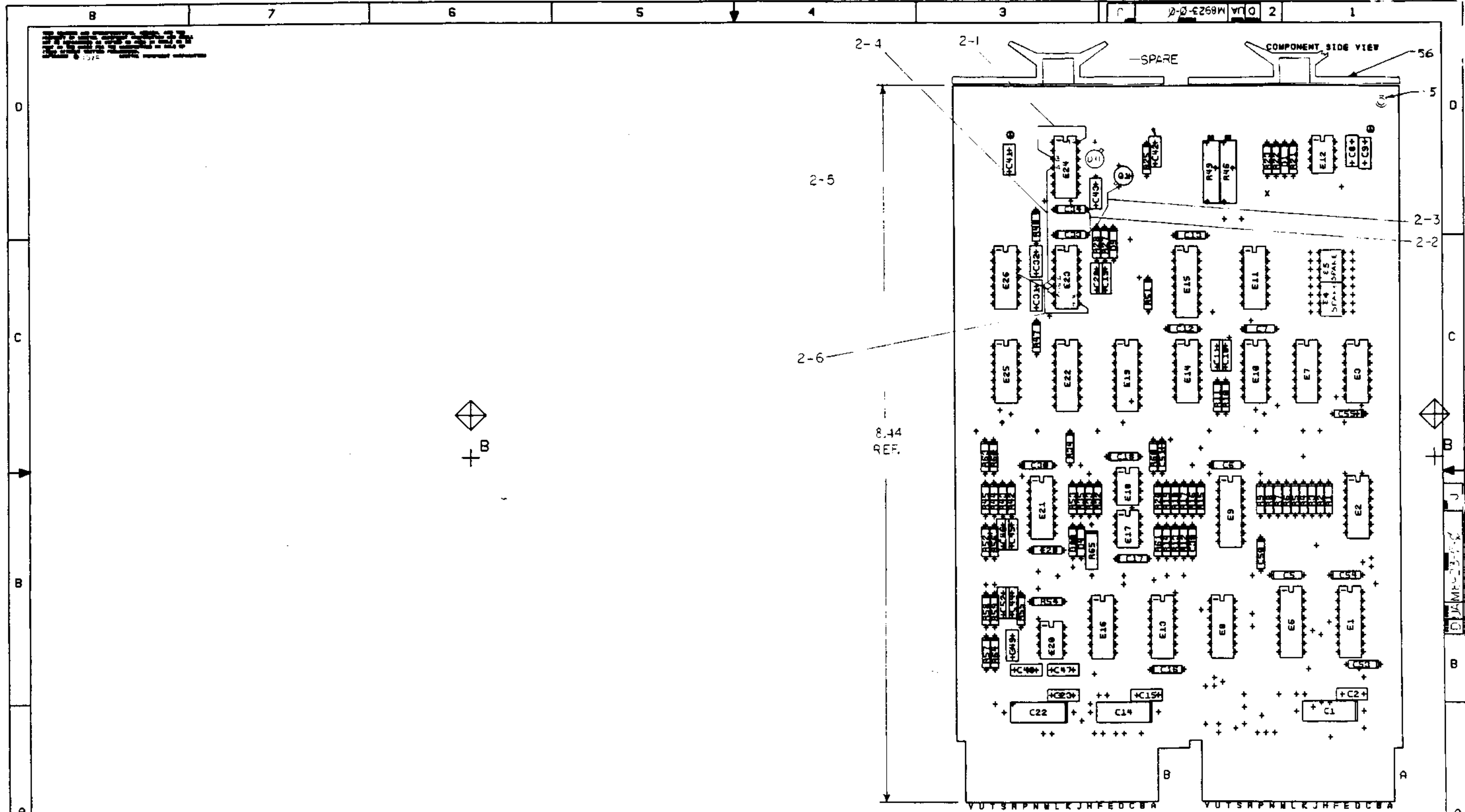
AUTOMATED BY PRTLST.1D(10)

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	40667 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-DHP	E



NOTES:

CHANGE NO	REV	DESCRIPTION
1	1	INITIAL DESIGN
1	2	REVISED TO ADD COMPONENTS
1	3	REVISED TO CORRECT PLACEMENT
1	4	REVISED TO ADD FOOTNOTES
1	5	REVISED TO ADD FOOTNOTES
1	6	REVISED TO ADD FOOTNOTES
1	7	REVISED TO ADD FOOTNOTES
1	8	REVISED TO ADD FOOTNOTES

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

SIGNATURES		DATE
DRW. D. DITTE DEIN		
CHK. D.		
PROJ. ENG.		
PROD.		
SCALE 2/1	TITLE READ CONTROL	
SMT. 1 OF 2	SIZE CODE	NUMBER
NEXT HIGHER ASSY. 3-00-M8923-2	0	UJA M8923-0-2

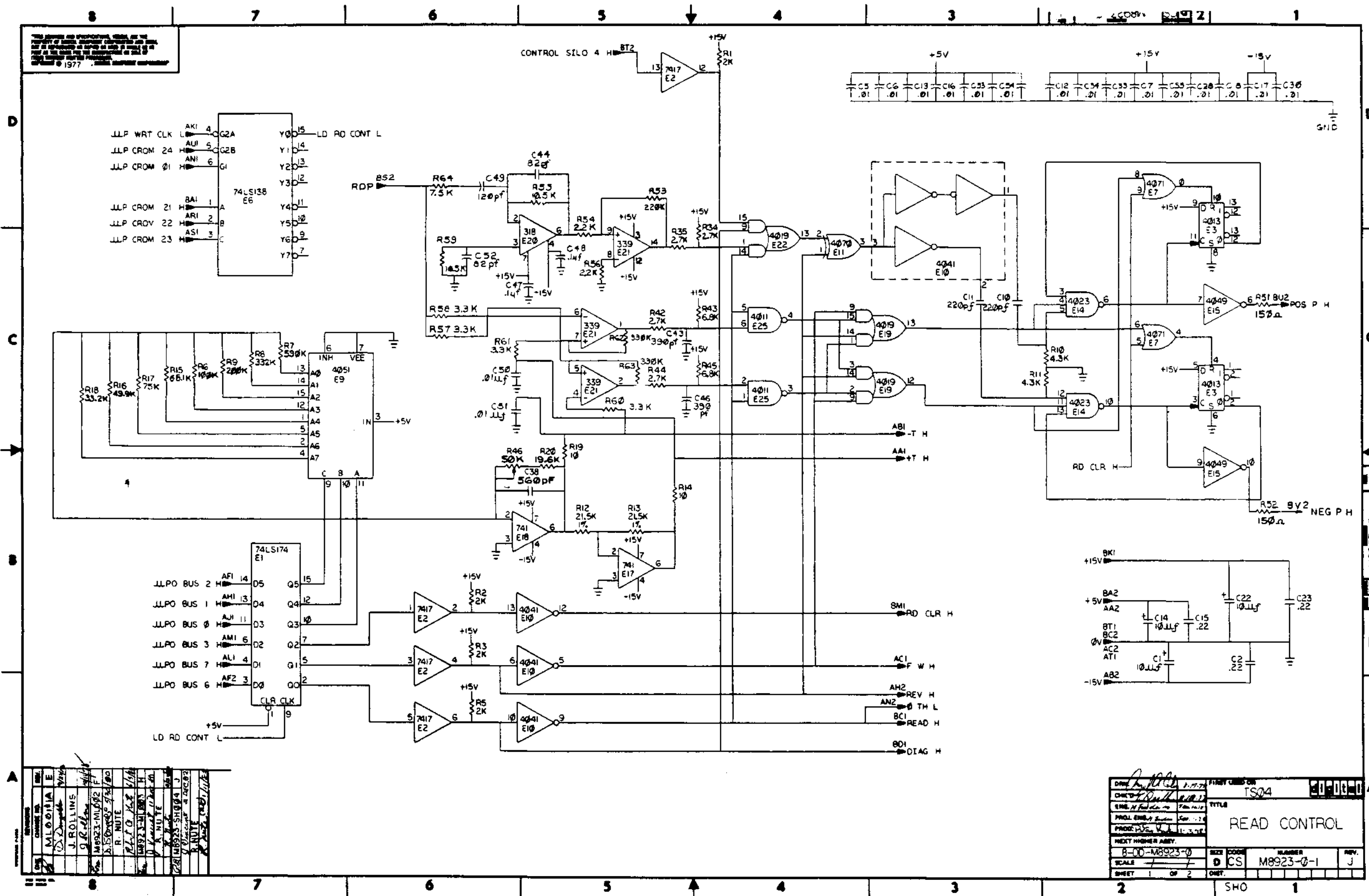
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A

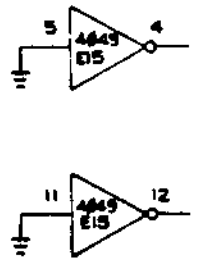
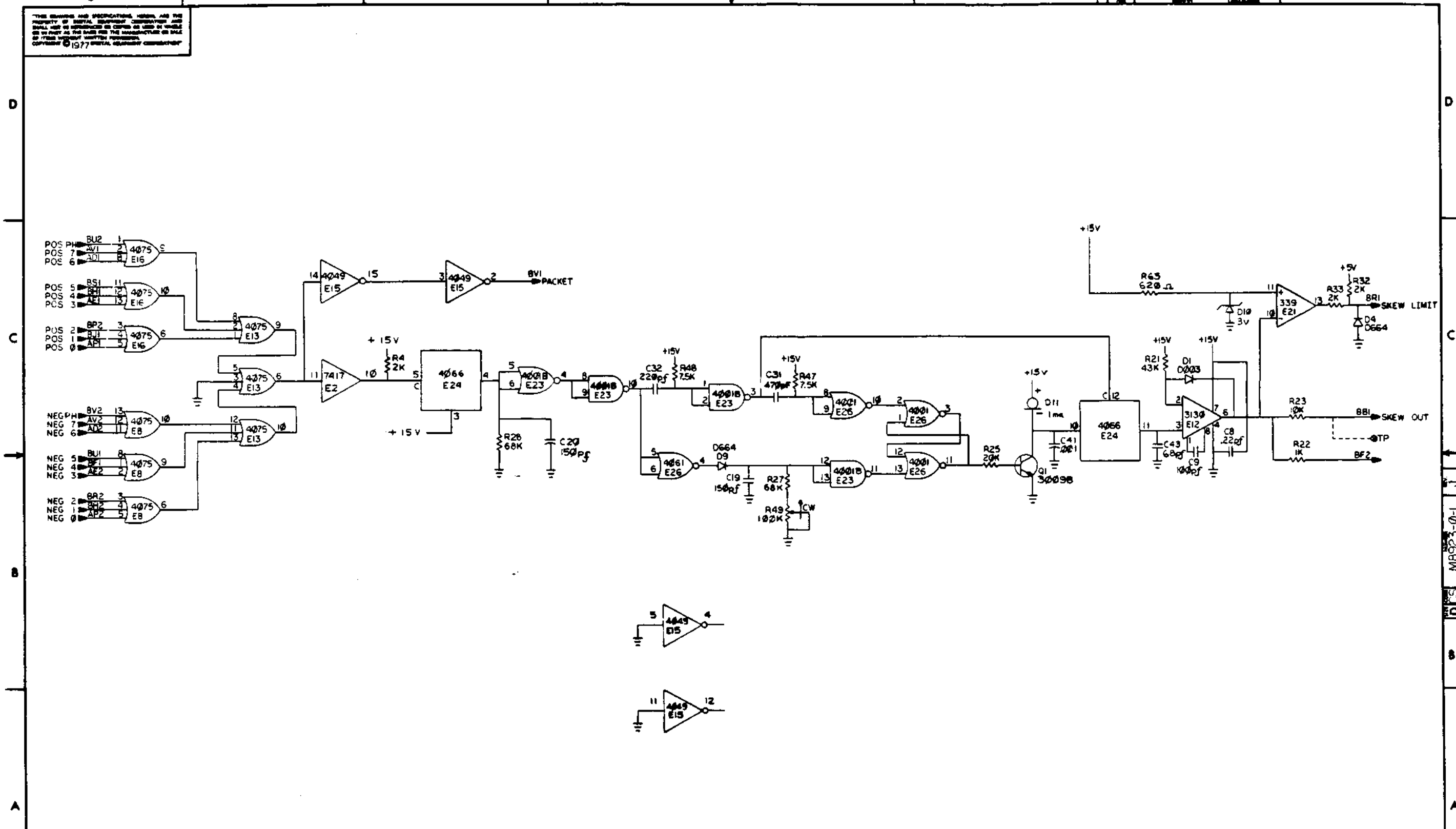
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REV	DATE	BY	CHKD	DESCRIPTION
1	11/15/77	M. L. GIBSON	J. R. ROLLINS	INITIAL DESIGN
2	11/15/77	M. L. GIBSON	J. R. ROLLINS	REVISED FOR MANUFACTURE
3	11/15/77	M. L. GIBSON	J. R. ROLLINS	REVISED FOR MANUFACTURE
4	11/15/77	M. L. GIBSON	J. R. ROLLINS	REVISED FOR MANUFACTURE
5	11/15/77	M. L. GIBSON	J. R. ROLLINS	REVISED FOR MANUFACTURE
6	11/15/77	M. L. GIBSON	J. R. ROLLINS	REVISED FOR MANUFACTURE
7	11/15/77	M. L. GIBSON	J. R. ROLLINS	REVISED FOR MANUFACTURE
8	11/15/77	M. L. GIBSON	J. R. ROLLINS	REVISED FOR MANUFACTURE

DATE	11-15-77	FILED	CS
DESIGNER	M. L. GIBSON	INSTRUMENT	TS04
ENGR.	J. R. ROLLINS	TITLE	READ CONTROL
PROJ. ENGR.	J. R. ROLLINS	SCALE	1:1
PROJ. CHECKER	J. R. ROLLINS	NUMBER	M8923-0-1
NEXT NUMBER ASSEMBLY		REV.	J
SCALE	1:1	SHEET	1 OF 2
SHEET	1 OF 2	CHKD.	

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REVISIONS		
CHK	CHANGE NO.	REV.

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 <td>DATE:</td> <td>20-SEP-78 <td>READ CONTROL</td> <td colspan="2"></td> </td>	DATE:	20-SEP-78 <td>READ CONTROL</td> <td colspan="2"></td>	READ CONTROL		
RN	M8923-ML002	F	[A] 00	RESP.ENG.:	J.ROLLINS <td>DATE:</td> <td>20-SEP-78 <td>DOCUMENT NUMBER</td> <td colspan="2"></td> </td>	DATE:	20-SEP-78 <td>DOCUMENT NUMBER</td> <td colspan="2"></td>	DOCUMENT NUMBER		
DJ	M8923-ML003	H	[B]	MFG.ENG.:	P.BARTON <td>DATE:</td> <td>20-SEP-78 <td>SIZE:CODE: NUMBER</td> <td>REV</td> <td></td> </td>	DATE:	20-SEP-78 <td>SIZE:CODE: NUMBER</td> <td>REV</td> <td></td>	SIZE:CODE: NUMBER	REV	
RN	M8923-SH004	J	[C]	ASSEMBLY NUMBER:	D-UA-M8923-0-0 <td>TOP DOCUMENT NUMBER:</td> <td>#B-DD-M8923-0 <td>FILE NAME:</td> <td>Z1482J.PLS</td> <td>EDIT #:</td> </td>	TOP DOCUMENT NUMBER:	#B-DD-M8923-0 <td>FILE NAME:</td> <td>Z1482J.PLS</td> <td>EDIT #:</td>	FILE NAME:	Z1482J.PLS	EDIT #:
			[D]							14
			[E]							
			[F]							
			[H]							
			[J]							
			[K]							
			[L]							
			[M]							
			[N]							

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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

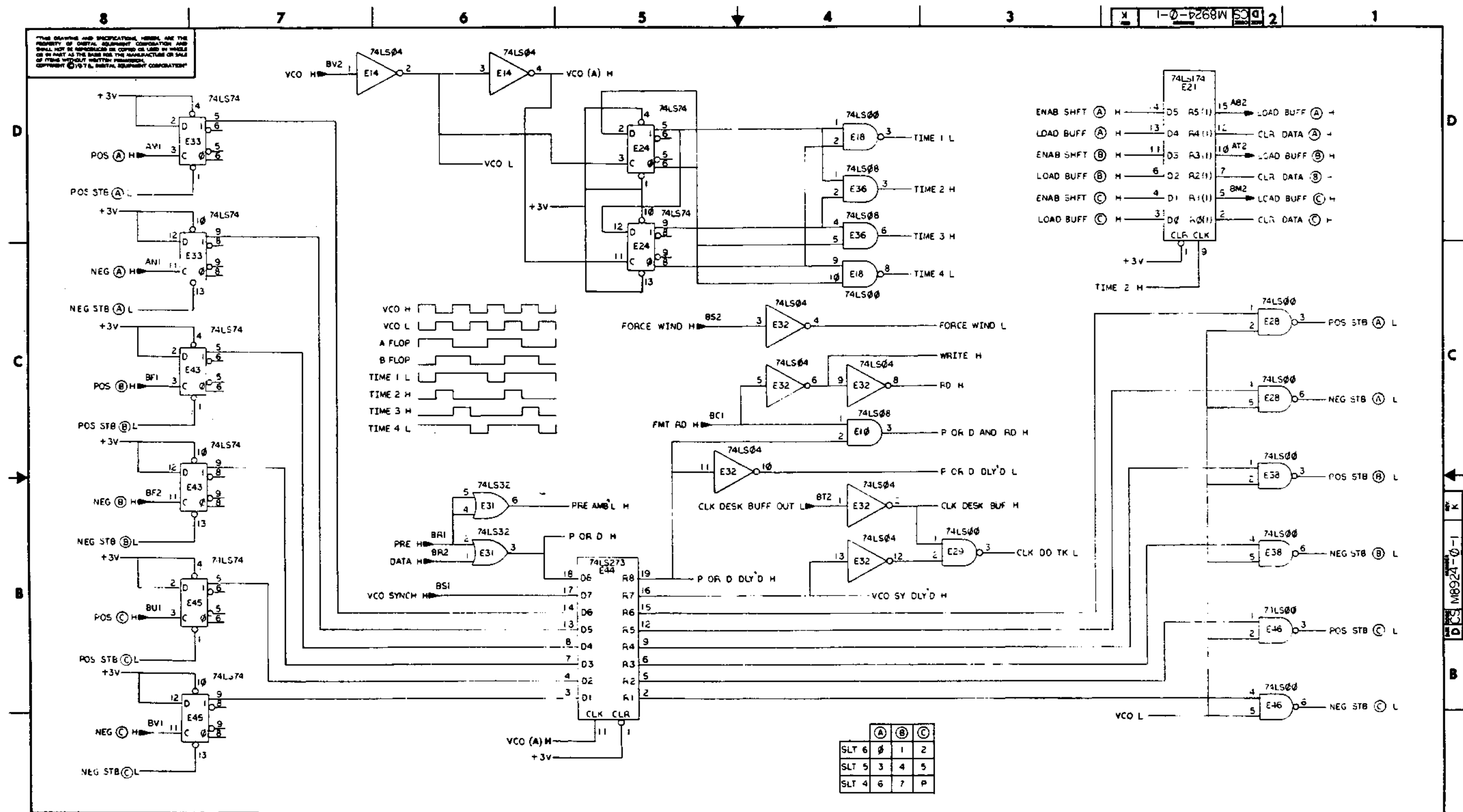
SHEET A3 OF A3

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					00		
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

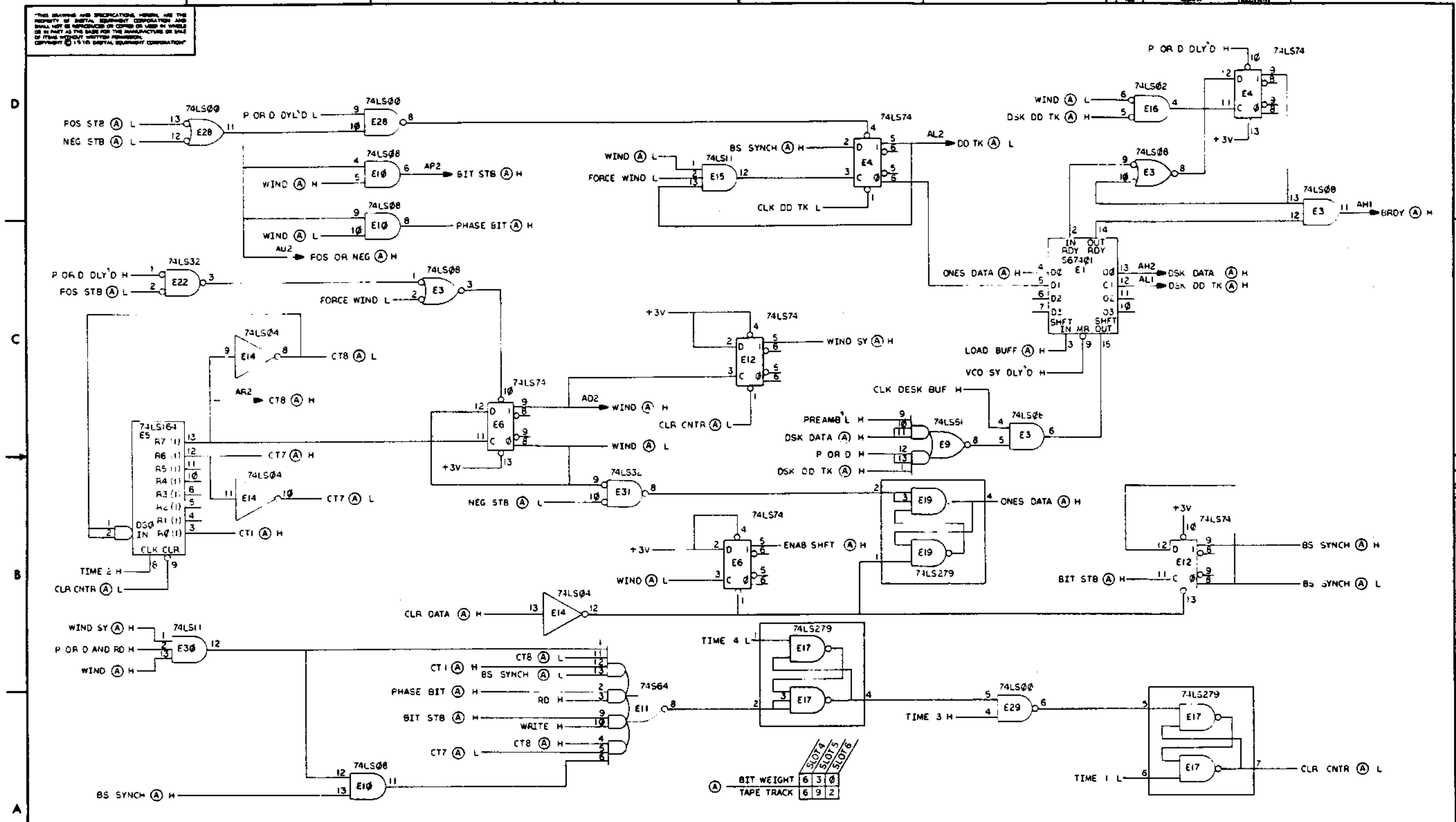
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REV	1	DATE	11/17/74
DESIGNED BY	J. COLLINS	CHECKED BY	B. KRASNIC
DRAWN BY	M. CASTELLANDS	APPROVED BY	M. CASTELLANDS
DATE	11/17/74	BY	M. CASTELLANDS

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

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(A) BIT WEIGHT TAPE TRACK

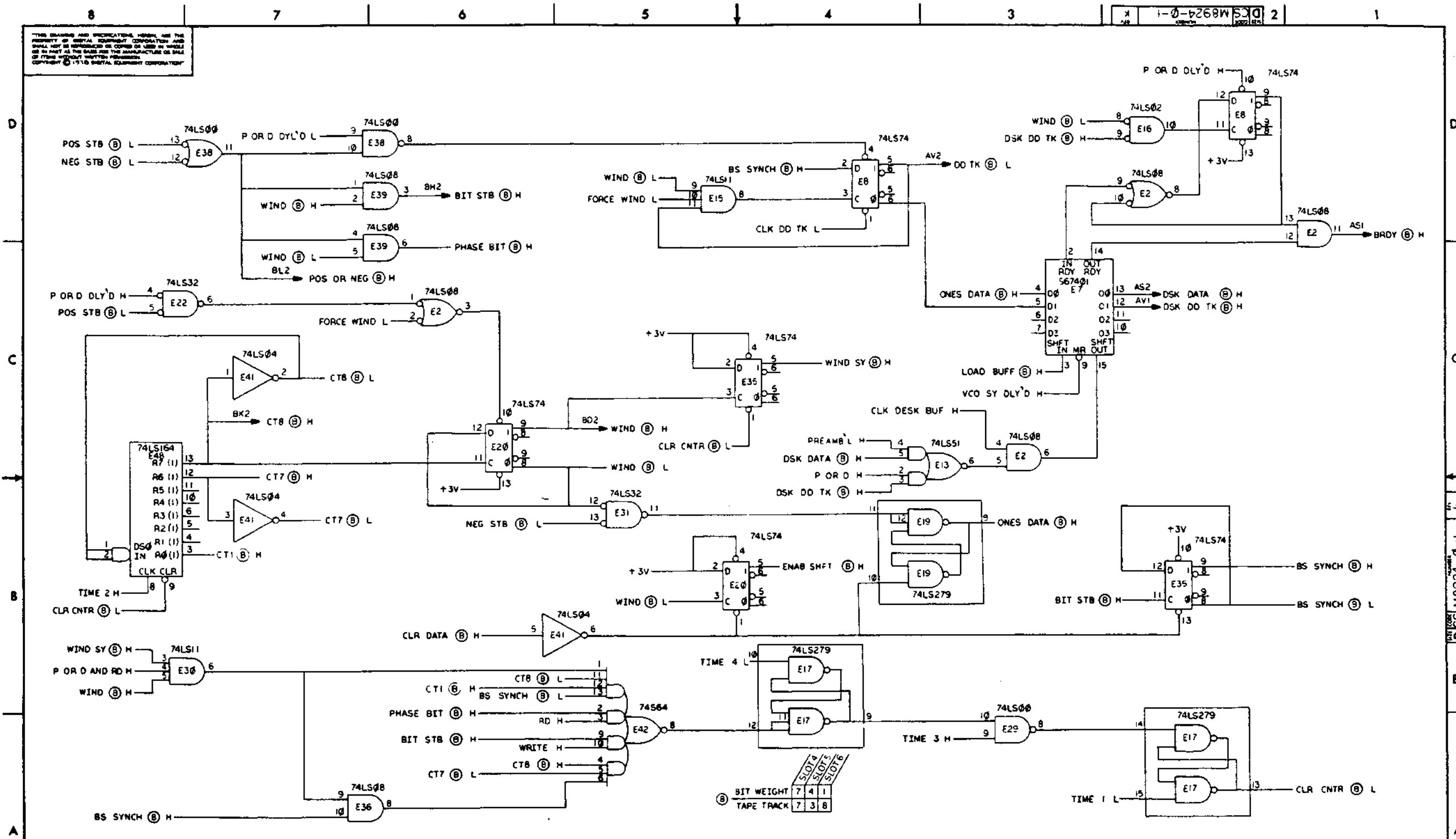
SLOT 4	SLOT 5	SLOT 6	SLOT 7
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REVISIONS

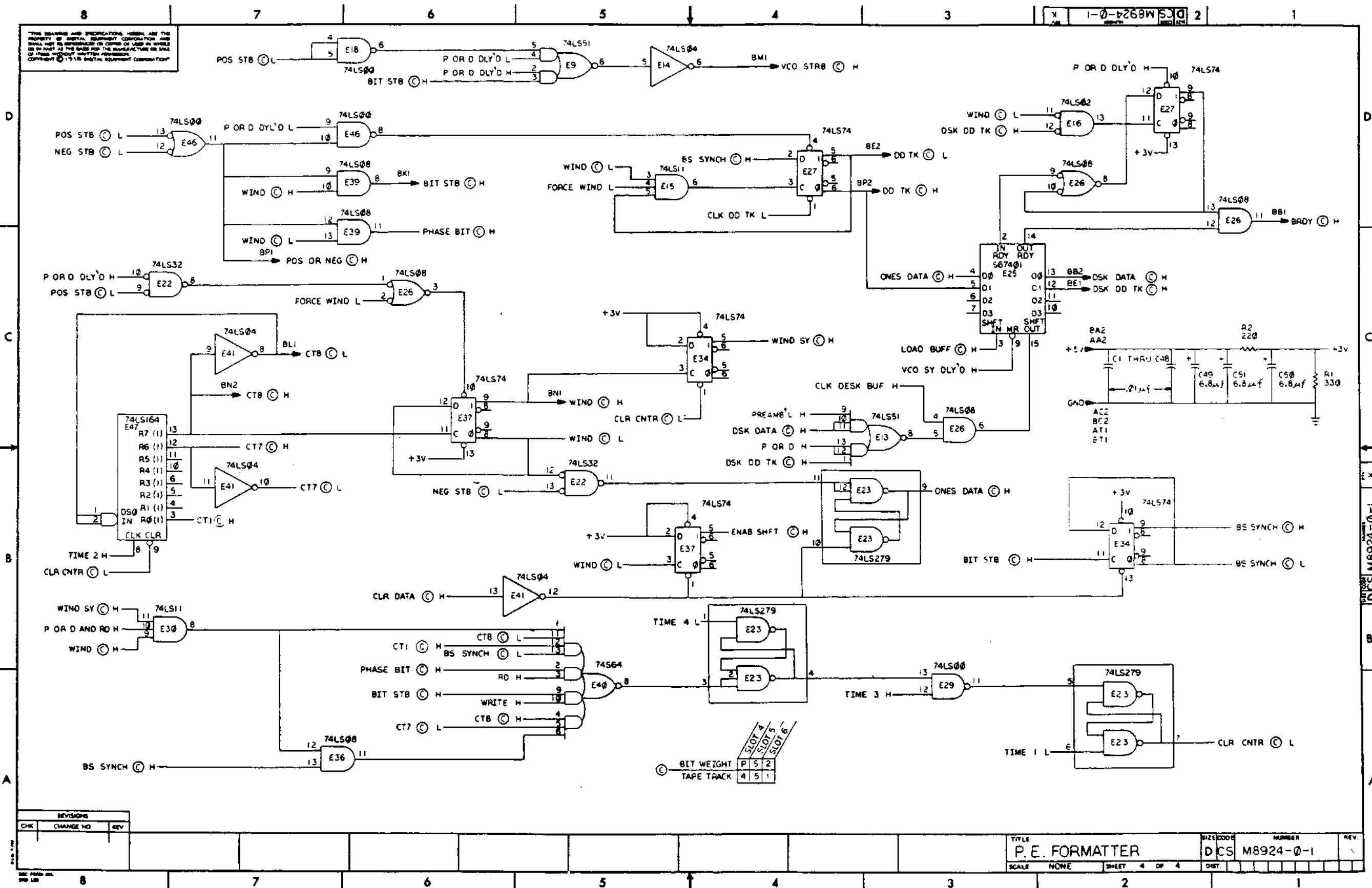
CHG	CHANGE NO	REV

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DCS M8924-0-1



REVISIONS			TITLE		SIZE CODE		NUMBER		REV.
CHK	CHANGE NO.	REV.	P.E. FORMATTER		DCS		M8924-0-1		
			SCALE	NONE	SHEET	3	OF	4	DIST.



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1-0-2268W S.10 2

BLT WEIGHT	P	5	2
TAPE TRACK	4	5	1

REVISIONS		
CHK	CHANGE NO	REV

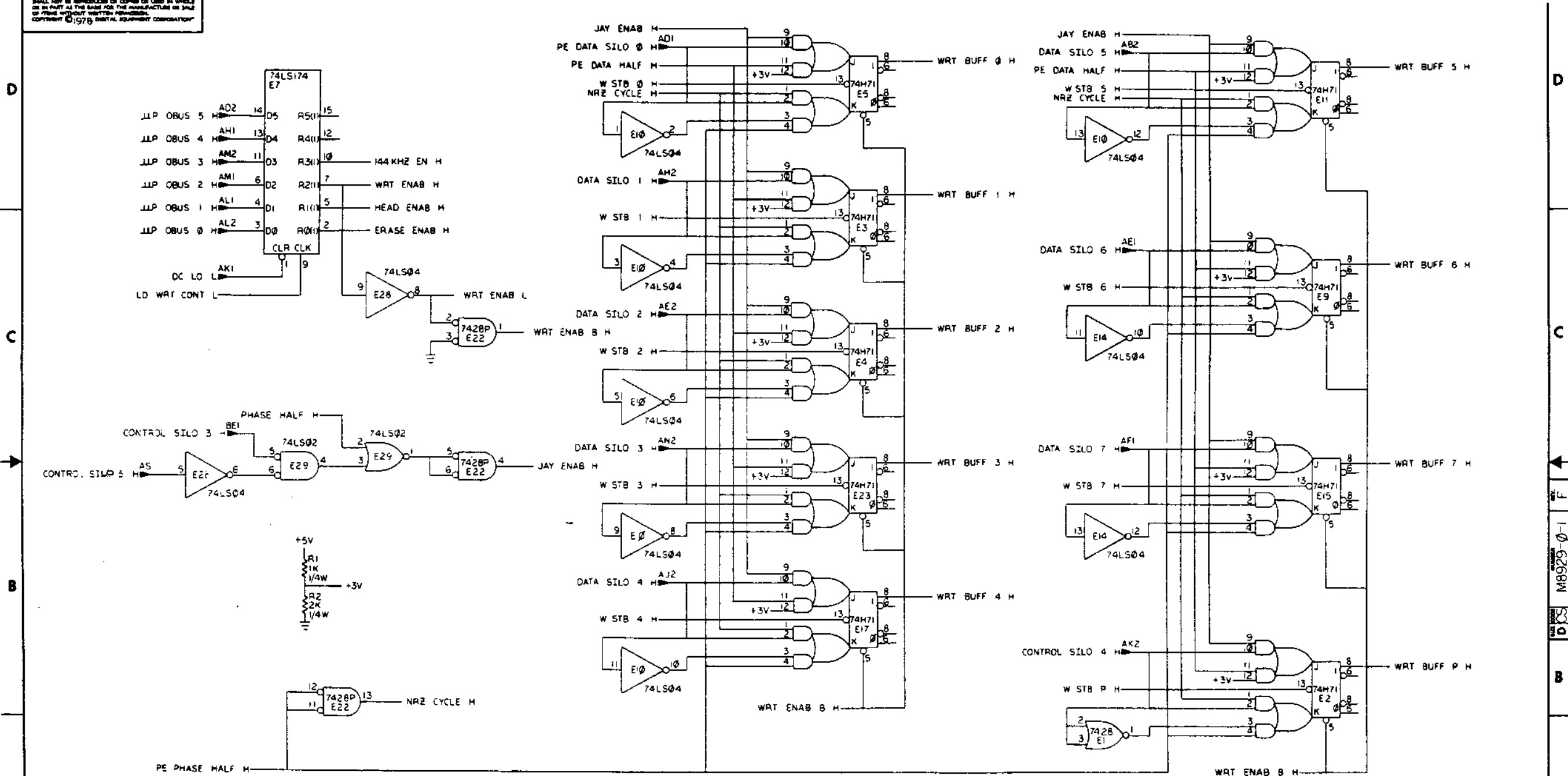
TITLE: P.E. FORMATTER
 SCALE: NONE
 SHEET: 4 OF 4
 NUMBER: DCS M8924-0-1
 REV: 1

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					00		
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-D-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	774LS04 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-D-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		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	CHK'D:	H.RICHER	DATE:	13-JUL-78		
J.R.	M8924-ML001	F	[A] 00					P.E.FORMATTER	
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		
			[H]					SIZE	CODE
			[J]					NUMBER	REV
			[K]	MFG.ENG.:	P.BARTON	DATE:	13-JUL-78	K	PL
			[L]					M8924-0-DBP	K
			[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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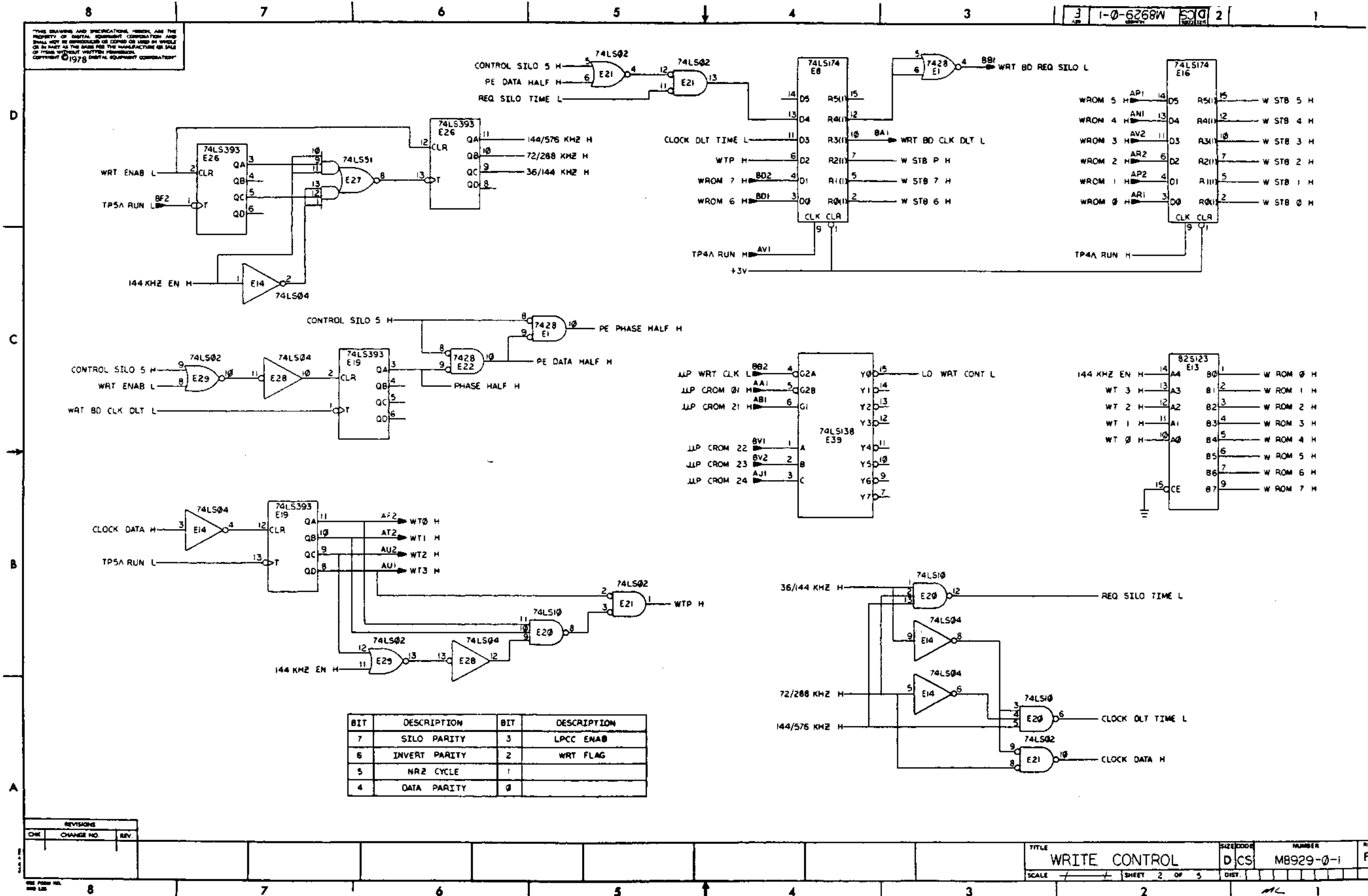


REV	DATE	BY	CHKD	DESCRIPTION
1	11/25/78	R. CORNEAU	R. CORNEAU	INITIAL DESIGN
2	12/11/78	R. CORNEAU	R. CORNEAU	REVISED FOR MANUFACTURE
3	1/17/79	R. CORNEAU	R. CORNEAU	REVISED FOR MANUFACTURE
4	2/2/79	R. CORNEAU	R. CORNEAU	REVISED FOR MANUFACTURE
5	2/2/79	R. CORNEAU	R. CORNEAU	REVISED FOR MANUFACTURE
6	2/2/79	R. CORNEAU	R. CORNEAU	REVISED FOR MANUFACTURE
7	2/2/79	R. CORNEAU	R. CORNEAU	REVISED FOR MANUFACTURE
8	2/2/79	R. CORNEAU	R. CORNEAU	REVISED FOR MANUFACTURE

DRG. DATE: 11/25/78	FIRST USED ON: TS04	DIGITAL
CHKD: R. CORNEAU	DATE: 1/17/79	
ENG: R. CORNEAU	DATE: 11/25/78	
PROD. DATE: 1/17/79		
NEXT HIGHER ASSY:		
TITLE: WRITE CONTROL		
SCALE: 1	SIZE: D	CODE: CS
SHEET: 1	OF: 5	DIST:
	NUMBER: M8929-0-1	REV: F

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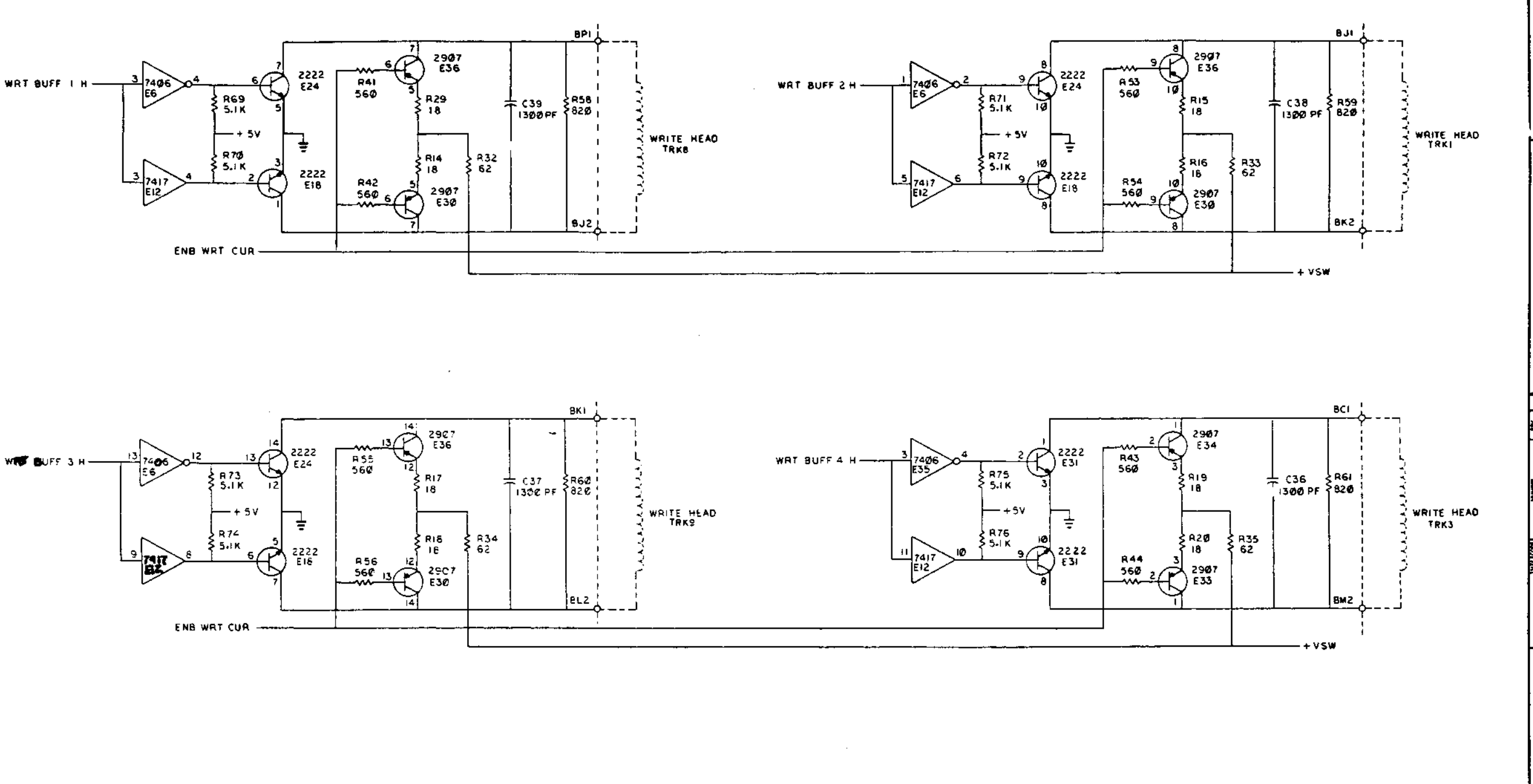
1-0-6268W 2



BIT	DESCRIPTION	BIT	DESCRIPTION
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6	INVERT PARITY	2	WRT FLAG
5	NR2 CYCLE	1	
4	DATA PARITY	0	

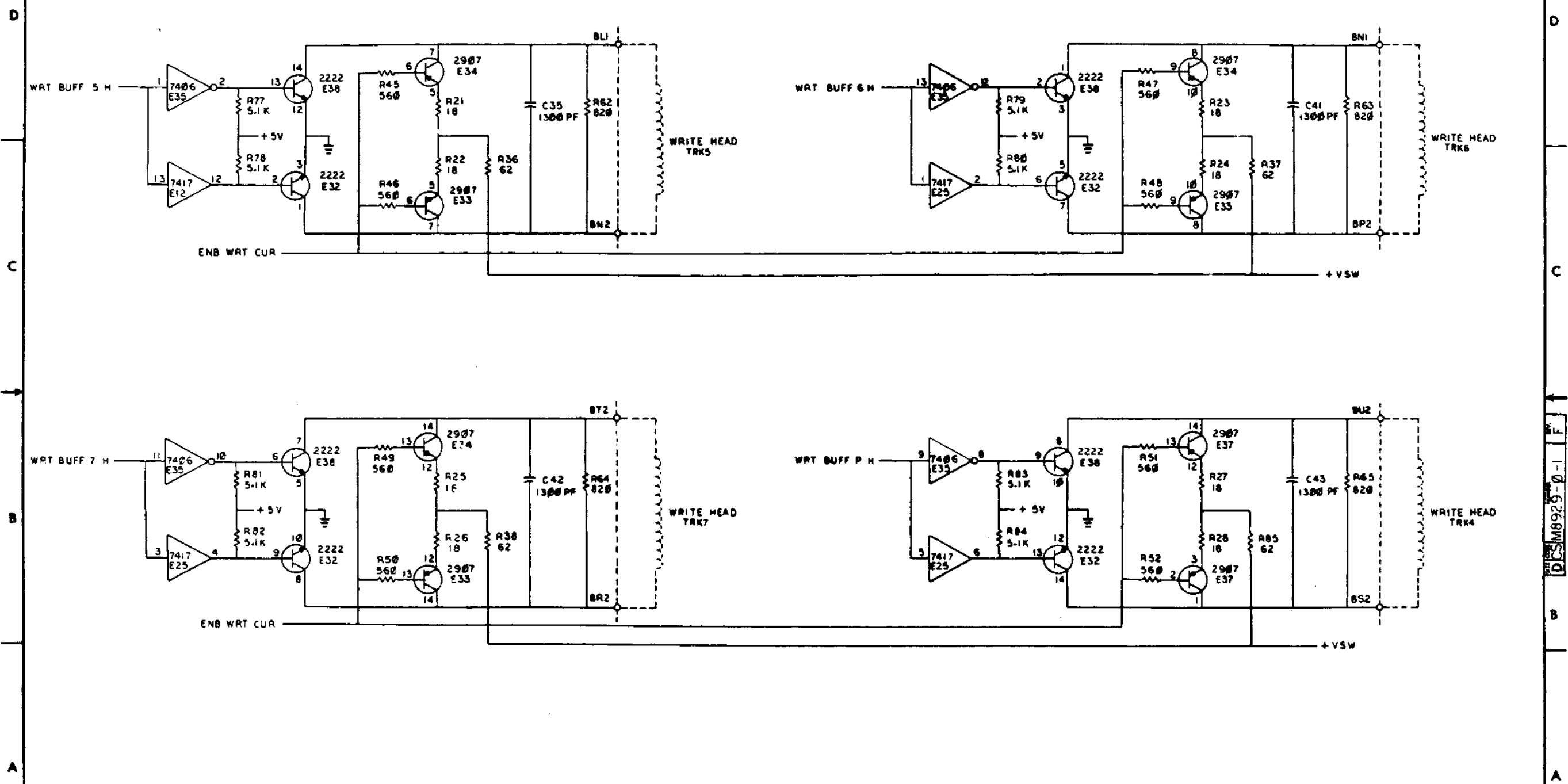
REVISIONS		
CHK	CHANGE NO.	REV.

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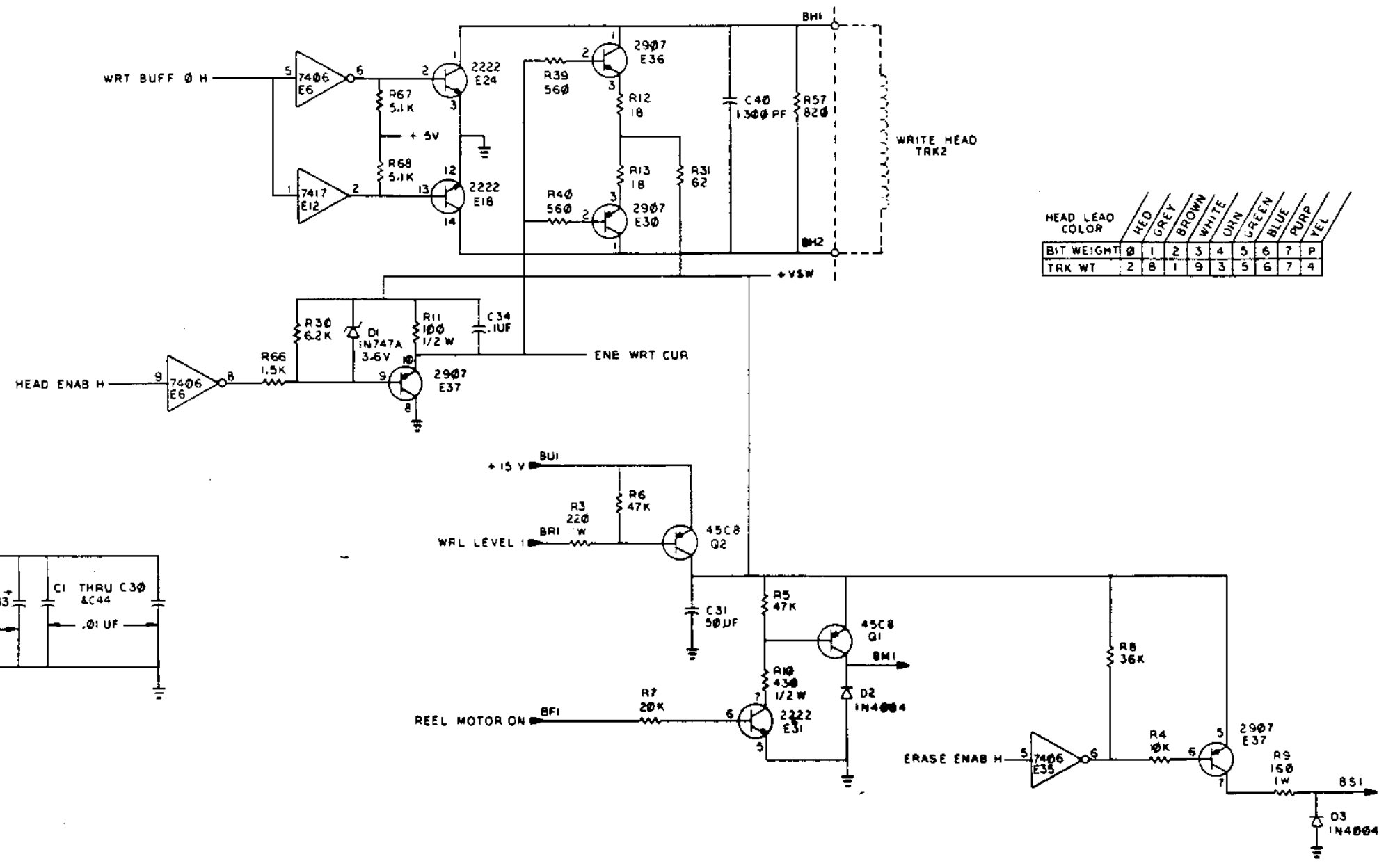
REVISIONS		
CHK	CHANGE NO.	REV.

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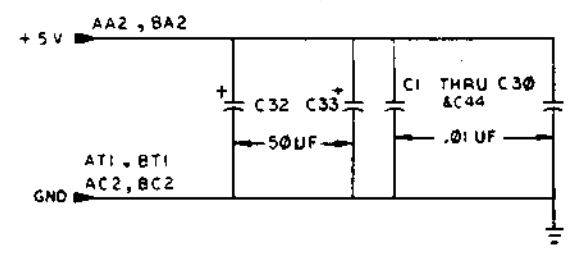


REVISIONS		
CHK	CHANGE NO.	REV.

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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.

AUTOMATED BY PRTLST.10(7)

PARTS LIST

SHEET A1 OF A2

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
1	1	D-CS-M8929-0-1		CIRCUIT SCHEMATIC			REF
2	2	D-UA-M8929-0-0		UNIT ASSY			REF
3	3	B-DD-M8929-0-0		DWG DIRECTORY			REF
4	4	D-MD-5012937-0-0		DRILL & ETCH DWG			REF
5	5		5012937-00	M8929	1		
6	6		1000061-00	*** THIS ITEM IS NOT USED ***			
7	7		1000080-00	50 MFD 50V +75-10% AL EL	3		C31-C33
8	8		1001610-00	.01 MFD 50V +80-20% 25U CER	31		C1-C30, C44
9	9		1001739-00	*** THIS ITEM IS NOT USED ***			
10	10		1005306-00	*** THIS ITEM IS NOT USED ***			
11	11		1100124-00	*** THIS ITEM IS NOT USED ***			
12	12		1101938-00	*** THIS ITEM IS NOT USED ***			
13	13		1109991-01	*** THIS ITEM IS NOT USED ***			
14	14		1105796-00	IN 4004 PIV=400 I= 1A 0041 SP	2		D2, D3
15	15		1211813-02	SOCKET 16PIN IC LOW PROFILE.	1		XE13
16	16		1300229-00	*** THIS ITEM IS NOT USED ***			
17	17		1300277-00	220.0 1.0 W10.0 % CC	1		R3
18	18		1300365-00	1.0 K .25 W 5.0 % CC	1		R1
19	19		1300479-00	10.0 K .25 W 5.0 % CC	1		R4
20	20		1301322-00	*** THIS ITEM IS NOT USED ***			
21	21		1301401-00	*** THIS ITEM IS NOT USED ***			
22	22		1302177-00	47.0 K .25 W 5.0 % CC	2		R5, R6
23	23		1302388-00	2.0 K .25 W 5.0 % CC	1		R2
24	24		1302391-00	20.0 K .25 W 5.0 % CC	1		R7
25	25		1302466-00	*** THIS ITEM IS NOT USED ***			
26	26		1302602-00	*** THIS ITEM IS NOT USED ***			
27	27		1312932-00	36.0 K .25 W 5.0 % CC	1		R8
28	28		1314953-00	160.0 1.0 W 5.0 % CC	1		R9
29	29		1314954-00	430.0 .50 W 5.0 % CC	1		R10
30	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. ODOM	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]					Z0214F.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-0-1 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	IN 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 NICA	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	

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							WRITE CONTROL		K	PL	M8929-0-DBP	F

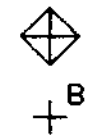
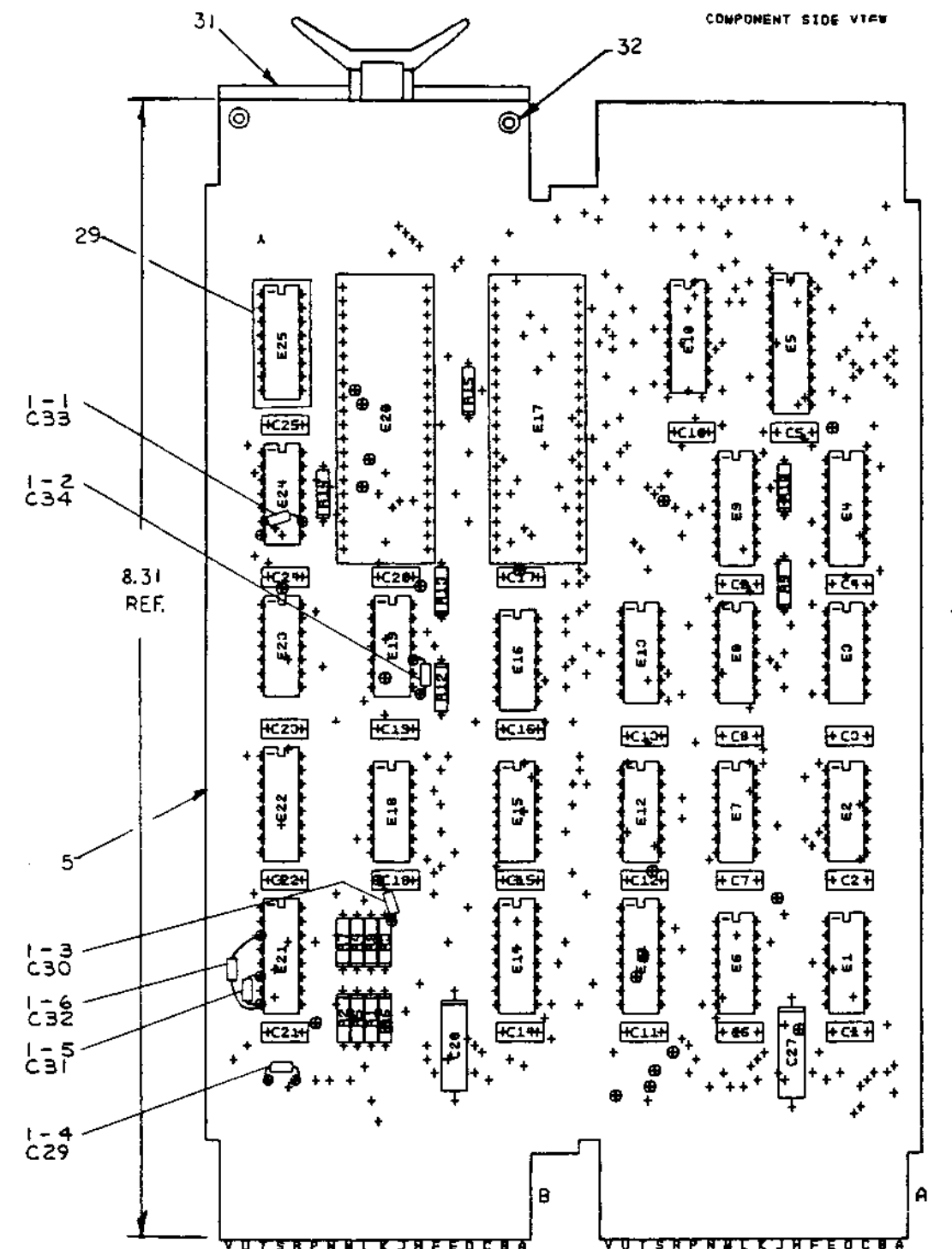
1778

2 D JAMB 962-0-0

COMPONENT SIDE VIEW

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:

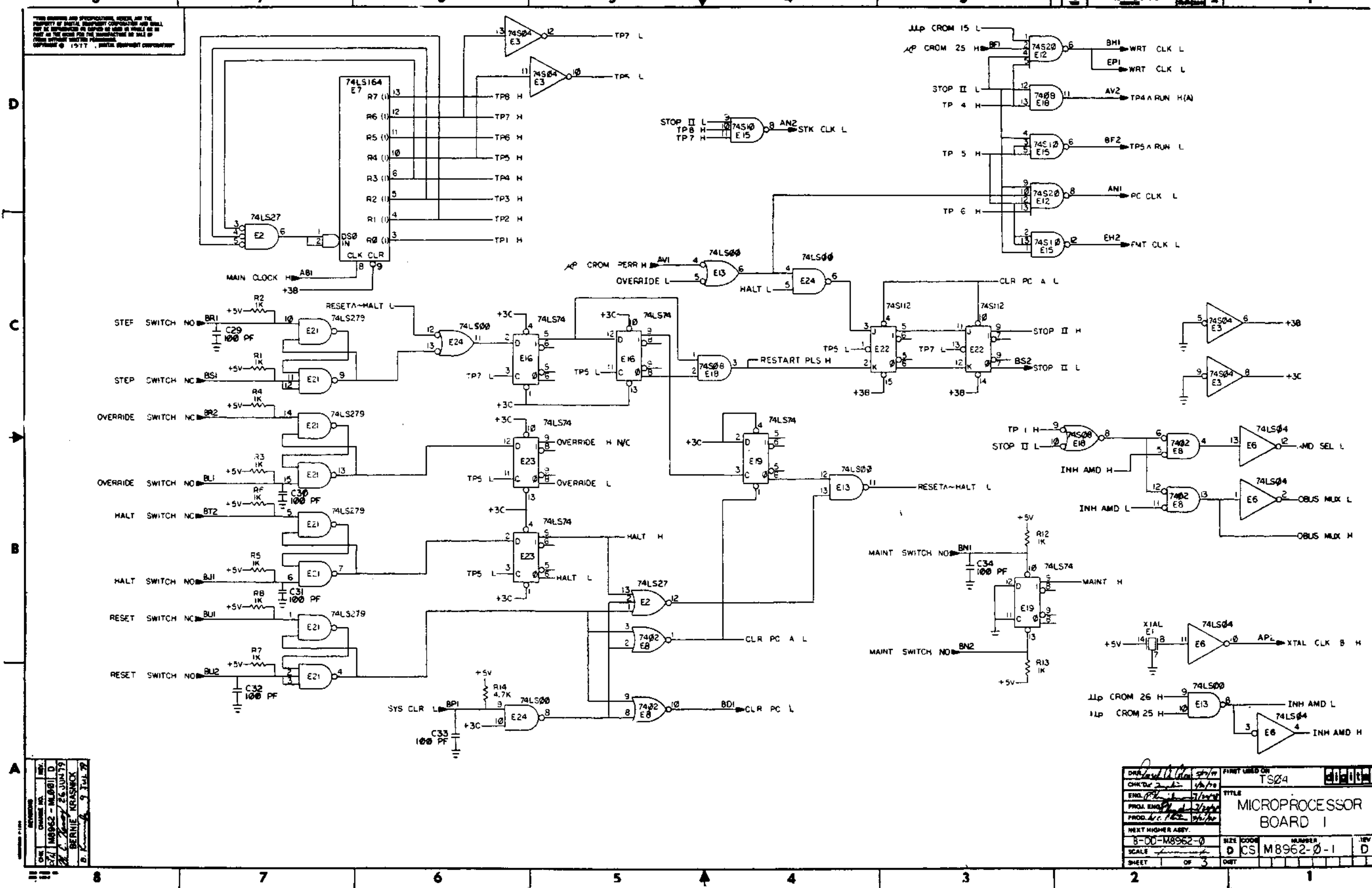
CHANGE NO	REV	DATE	BY

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

SIGNATURES		DATE	digital
DRN. P. J. ...		2-5-78	
CHK. O. ...		5-4-78	TITLE MICRO-PROCESSOR BOARD ONE
			SIZE CODE NUMBER REV
			0 UA M8962-0-0 D
			NEXT HIGHER ASSY. B-DD-M8962-0-0

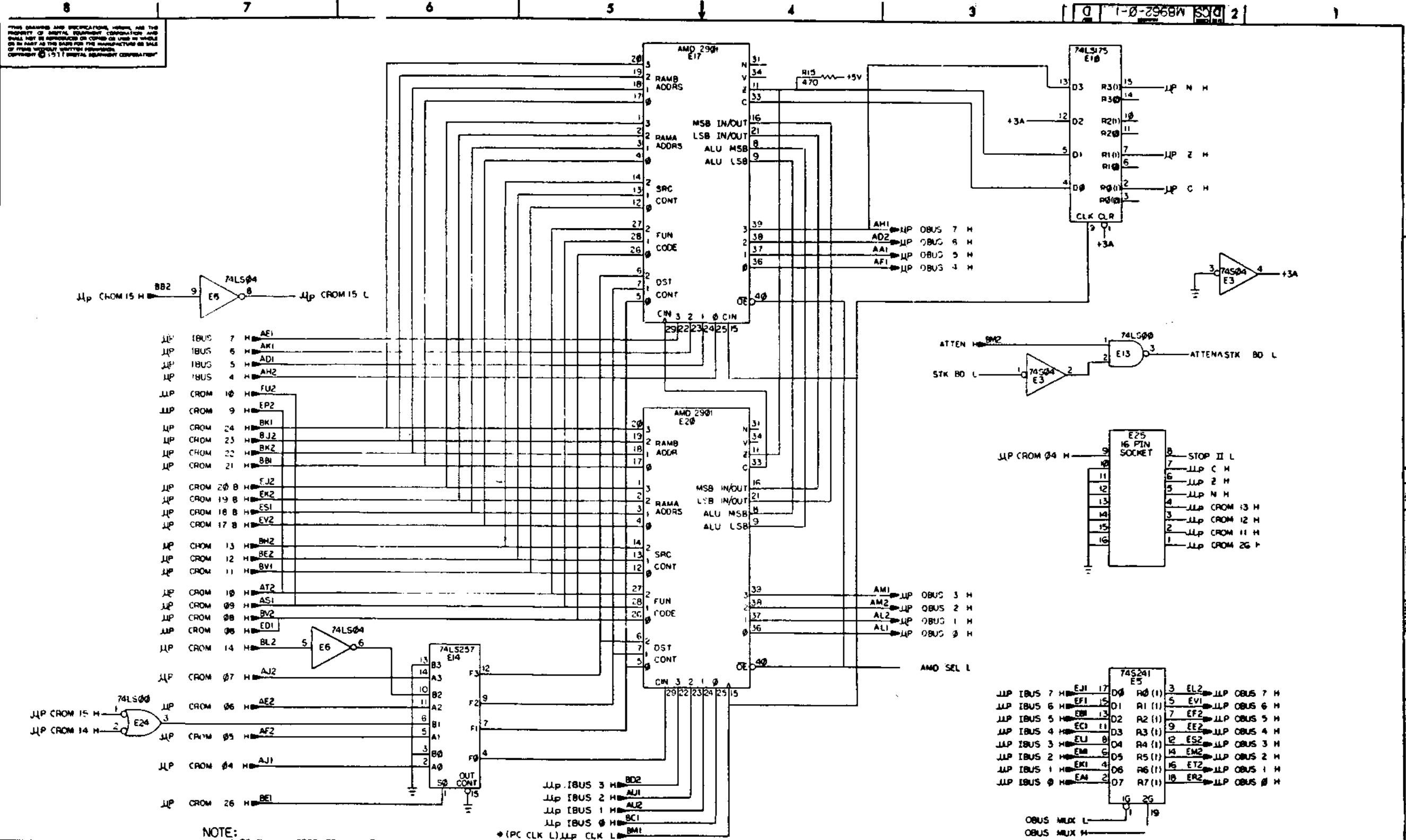
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1-0-2968W 2



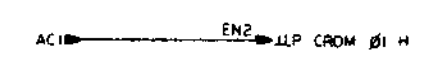
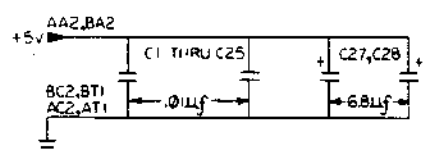
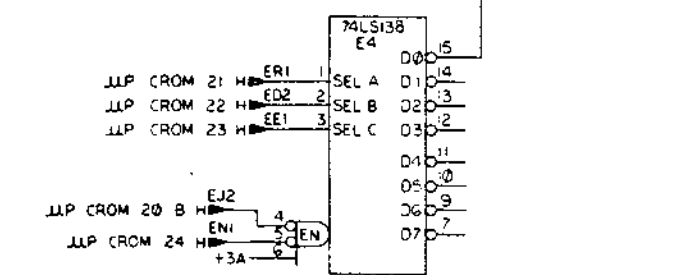
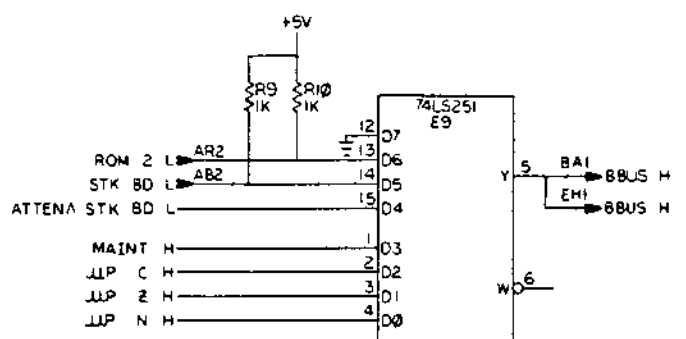
REV	DATE	BY	CHKD BY
1	10/25/79	BERNIE KRASNOY	
2	11/14/79		

DATE	DESIGNED BY	FIRST USED ON	
10/25/79		TS24	
CHK'D BY	DATE	TITLE	
		MICROPROCESSOR BOARD 1	
ENGR. BY	DATE		
PROD. BY	DATE		
NEXT HIGHER ASSY.			
B-00-M8962-0			
SCALE	DWG. CODE	NUMBER	REV
	D CS M8962-0-1		D
SHEET	OF	DWG.	
1	3		

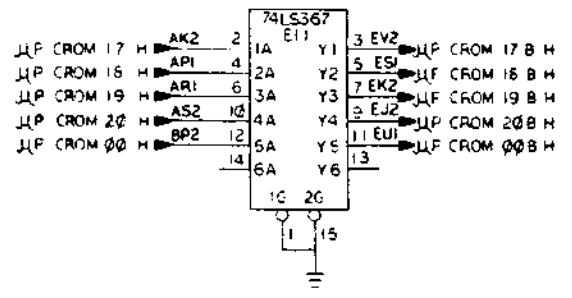


REVISIONS		
CHK	CHANGE NO.	REV.

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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	EV1
JLP OBUS 7 H	EL2
JLP IBUS 0 H	EAI
JLP IBUS 1 H	EK1
JLP IBUS 2 H	EM1
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	EMI
FMT CLK L	EH2
WRT CLK L	EP1
JLP OBUS 5 H	EF2
JLP CROM 6 H	EO1
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	REF	
2	2	D-UA-M8962-0-0		UNIT ASSY	REF	
3	3	B-00-M8962-0-0		DWG DIRECTORY	REF	
4	4	D-MD-5012863-0-0		DRILL & ETCH DWG	REF	
5	5		M8962		1	
6	6		5012863-00			
7	7		1001610-00	.01 MFD 50V +80-20X 25U CER	25	C1-C25
8	8		1005306-00	35V 10% S.TANT	2	C27,C28
9	9		1300316-00	470.0 6.8MFD	1	R15
10	10		1300365-00	1.0 K .25 W 5.0 X CC	12	R1-R10,R12,R13
11	11		1300447-00	4.70 K .25 W 5.0 X CC	1	R14
12	12		1913471-00	LS367 DRIVER,BUS,HEX,TRI-	1	E11
13	13		1912850-00	LS164 SHIFT REG. 8BIT SERI	1	E7
14	14		1910534-00	74504 INVERTER GATE-HEX II	1	E3
15	15		1910539-00	74520 NAND GATE-DUAL 4INPU	1	E12
16	16		1910545-00	745112 FF-JK DUAL,EDGE TRIG	1	E22
17	17		1911641-00	SN 745257 MUX,QUAD 2 TO 1	1	E14
18	18		1912389-00	74508 AND GATE-QUAD 2IN,PO	1	E18
19	19		1912648-00	LS251 MUX 8 INPUT,TRI-STA	1	E9
20	20		1912799-00	LS00 NAND-GATE-QUAD 2IN,P	2	E13,E24
21	21		1912813-00	LS27 NOR GATE-TRIPLE 3IN	1	E2
22	22		1912824-00	LS74 FF-D DUAL,EDGE TRIGG	3	E16,E19,E23
23	23		1912853-00	LS175 FF-D QUAD	1	E10
24	24		1912864-00	LS279 LATCH,QUAD-S-R	1	E21
25	25		1913245-00	2901 BIPOLAR MICROPROCESSO	2	E17,E20
26	26		1909004-00	DEC 7402 NOR GATE-QUAD 2IN	1	E8
27	27		1910536-00	74510 NAND GATE-TRIPLE 3IN	1	E15
28	28		1912842-00	LS138 DECODER-THREE INPUT	1	E4
29	29		1913493-00	745241 OCTAL BUFFER,TRI-STA	1	E5
30	30		1211813-02	SKT,IC 16PIN DIP GOLD PLATE	1	E25
			1812131-00	OSCILLATOR, XTAL 13.824 MHZ	1	E1

REVISION HISTORY		BASIC PART NO: M8962		DRN: J. ROGERS	DATE: 21-NOV-77	D I G I T A L	
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)					
		(D)					
		(E)			DOCUMENT NUMBER		
		(F)					
		(H)			SIZE: CODE: NUMBER REV		
		(J)					
		(K)			K PL M8962-0-DBP D		
		(L)					
		(M)					
		(N)					
ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #	
D-UA-M8962-0-0		TS04		Z0611D.PLS		22	

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AUTOMATED BY PRTLST.IC(5)

PARTS LIST

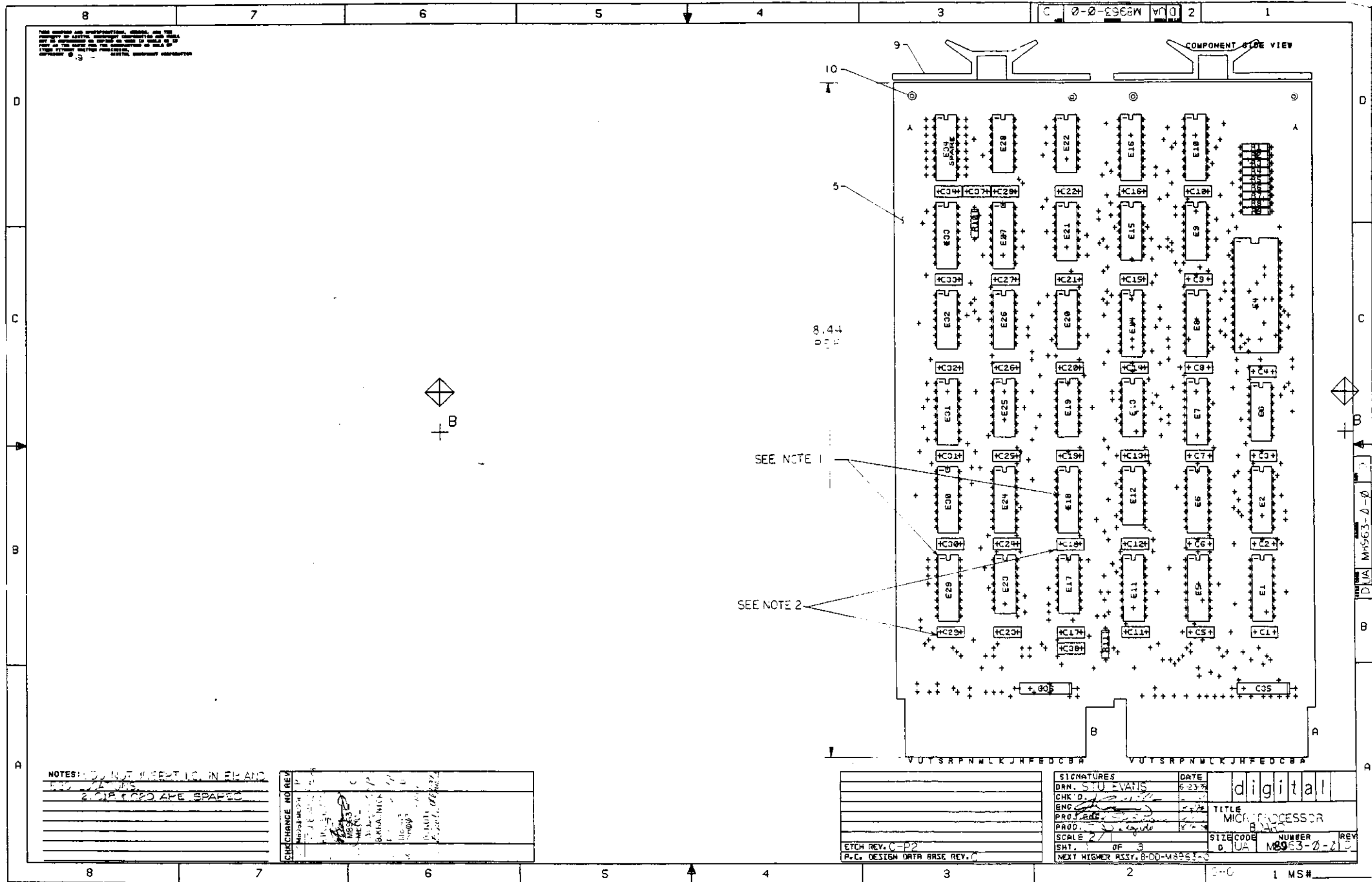
SHEET A2 OF A2

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
31	31		9008337-06	HANDLE, FLIP CHIP, MAGENTA	1	
32	32		9006732-00	EYELET, ROLL FLANGE .12100X .219	2	
33	33		1912803-00	74LS04 INVERTER GATE, HEX	1	E6
34	34		1000016-00	100.0 MMF 100V 5X200PPM MICA	6	C29-C34
35	35		9107256-11	TUBING, THIN WALL, .027ID UL	A/R	

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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0-0-2968M V10 2



NOTES: DO NOT INSERT IC IN FR AND
2. CIR. CO20 ARE SPARE

CHK	CHANGE NO	REV	DATE	BY	APP

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

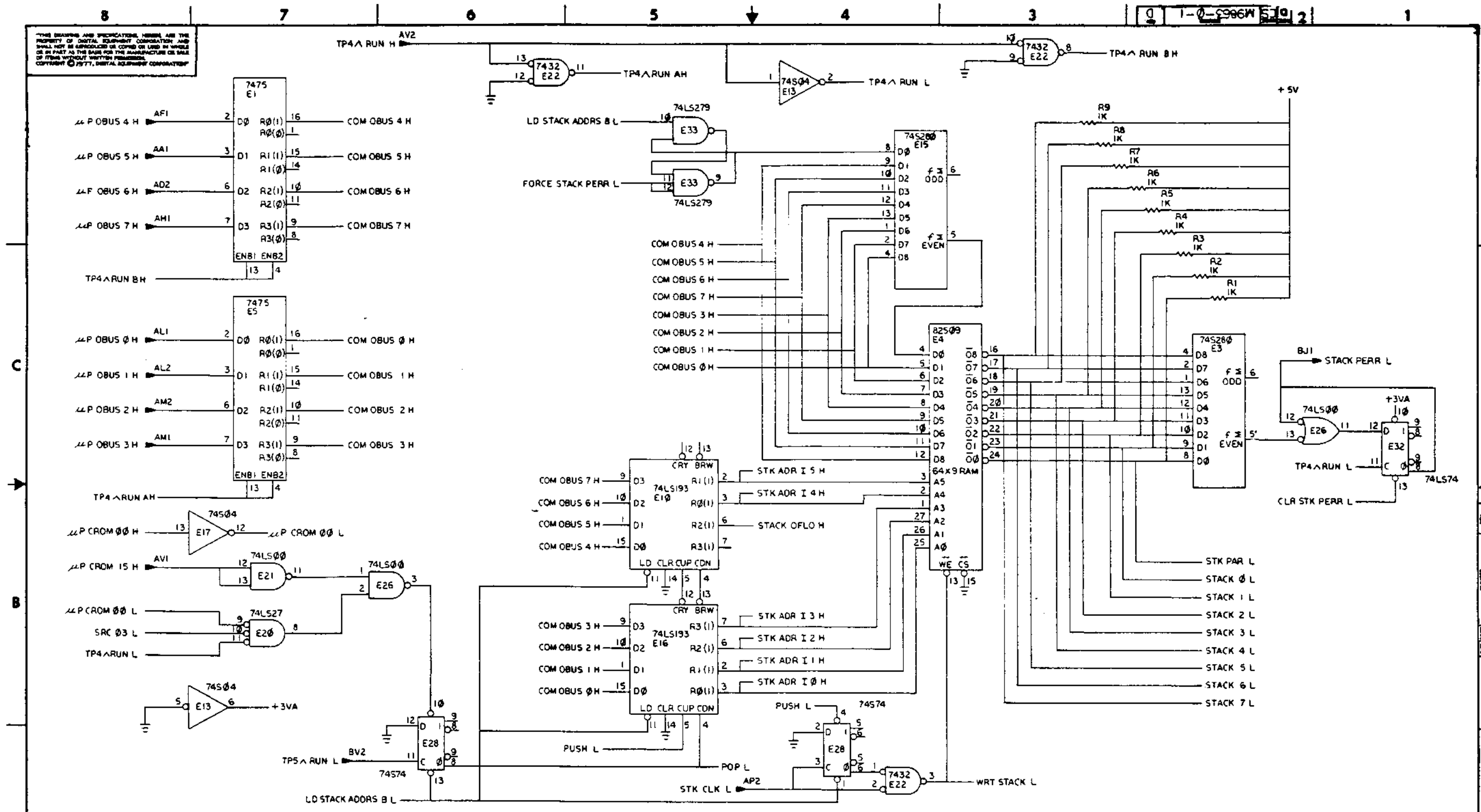
SIGNATURES	DATE	digital
DRN. S.T.U. EVANS	6-23-77	
CHK D.		
ENC.		
PROJ. ENG.		TITLE
PAOD.		MICROPROCESSOR
SCALE 27	OF 3	SIZE CODE
SHT. 1		NUMBER
NEXT HIGHER ASSY. B-00-M8963-C		0-0-2968M

DUA M8963-0-0

1 MS#

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1-0-996W E2 2

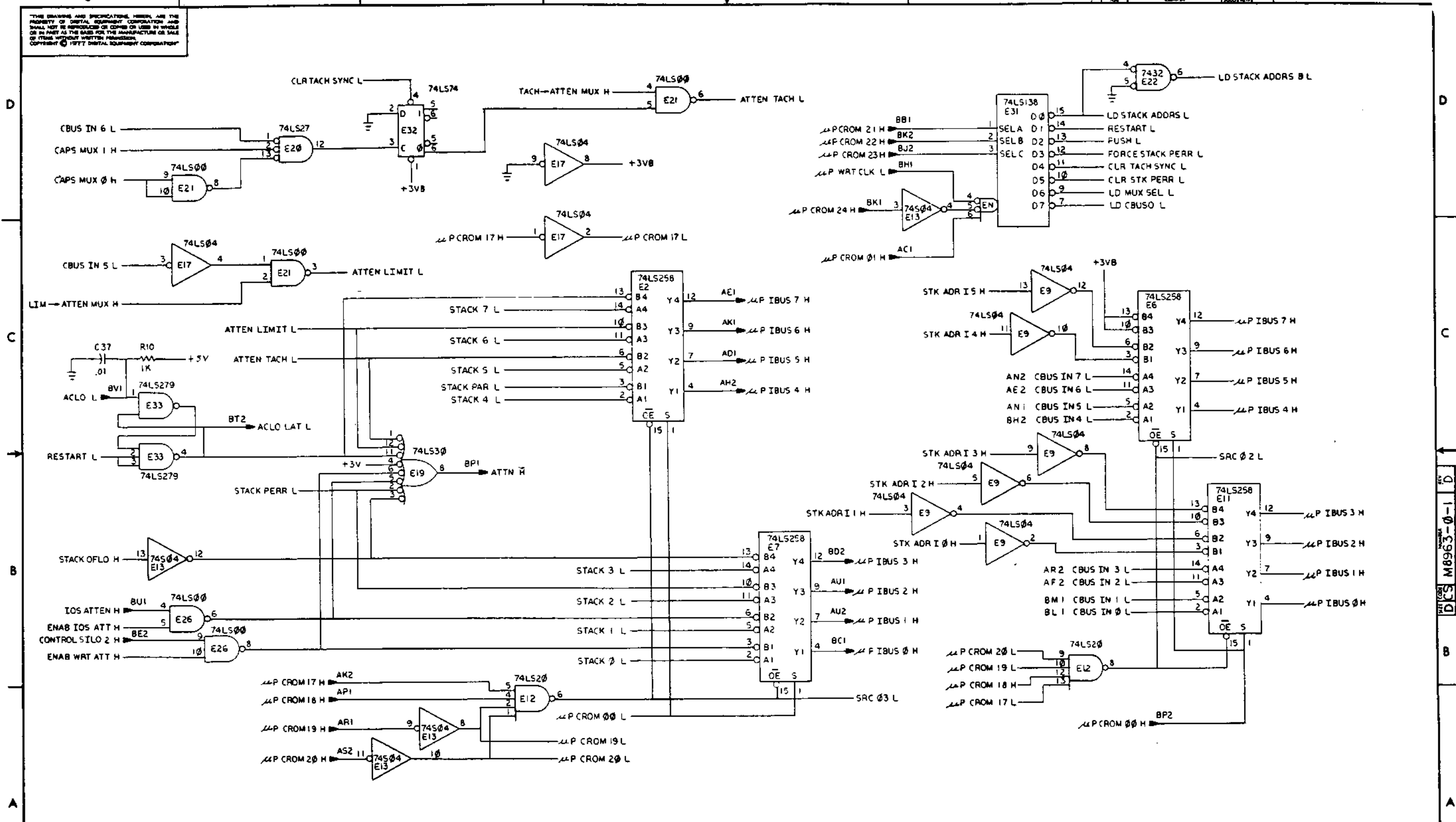


REV.	DATE	BY	CHKD.
1	11/15/77	S. EVANS	
2	12/1/77	B. KRASNICK	
3	12/1/77	B. KRASNICK	
4	12/1/77	B. KRASNICK	
5	12/1/77	B. KRASNICK	
6	12/1/77	B. KRASNICK	
7	12/1/77	B. KRASNICK	
8	12/1/77	B. KRASNICK	

ORIG. (S. EVANS)	ETCH REV. C-PR
CHKD. (B. KRASNICK) 12-1-77	FIRST USED ON TS04
ENL. (B. KRASNICK) 9-2-77	TITLE MICROPROCESSOR BOARD 2
PRD. ENG. (S. EVANS) 9-2-77	PROJ. (S. EVANS) 10-1-77
NEXT HIGHER ASSY. B-00-M9863-0	
SCALE NONE	SIZE CODE D CS
SHEET 1 OF 3	NUMBER M9863-0-1
	REV. D

D CS M9863-0-1 D

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REVISIONS		
CHK	CHANGE NO.	REV

TITLE	MICROPROCESSOR BOARD 2	SIZE/COORD	D/CS	NUMBER	M8963-0-1	REV.	D
SCALE	NONE	SHEET	2 OF 3	DIST.			

AUTOMATED BY PRTLST.2D(16)

PARTS LIST

SHEET A1 OF A1

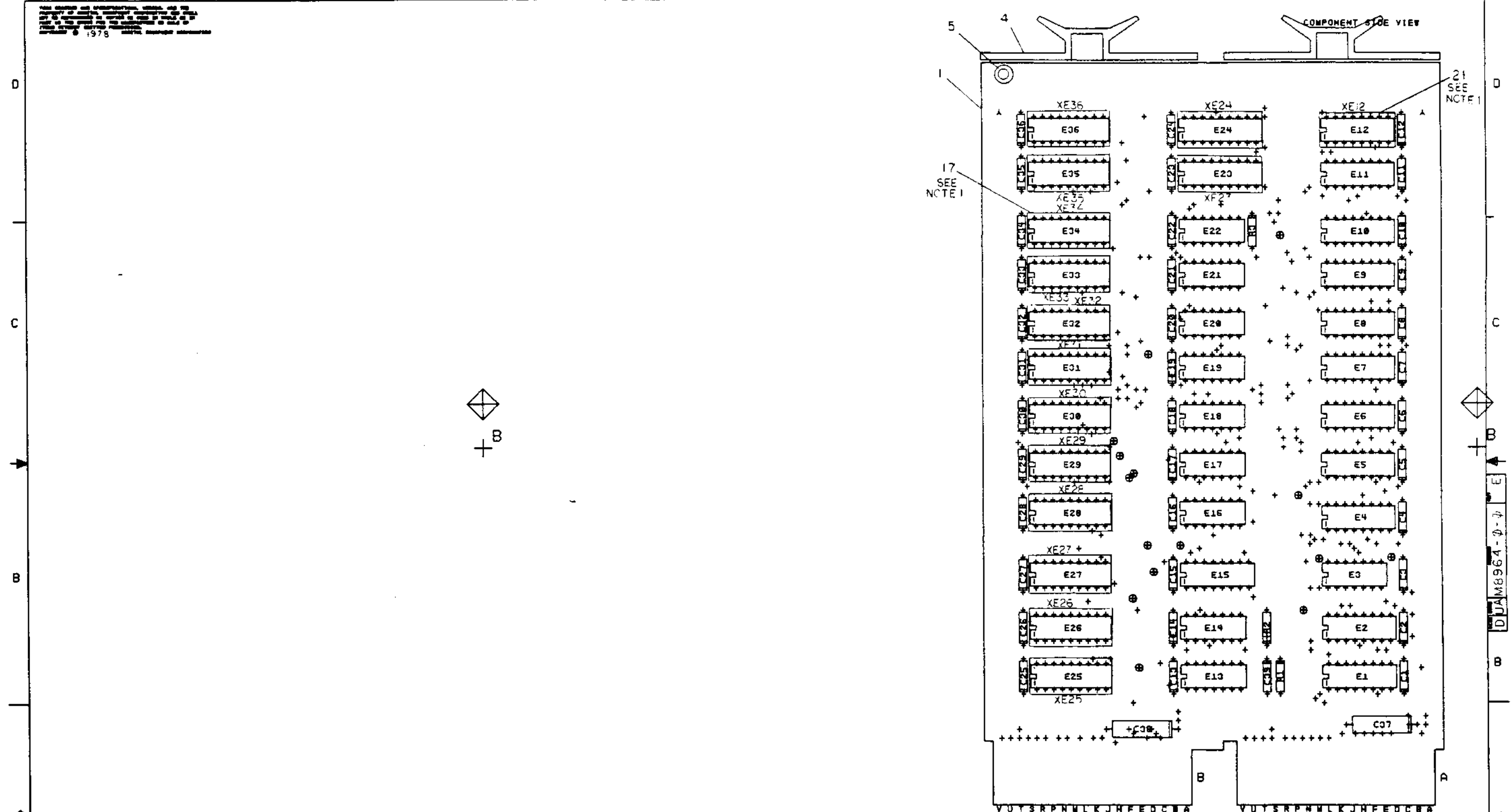
LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
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2	2	D-UA-M8963-0-0		UNIT ASSEMBLY	REF	
3	3	B-DD-M8963-0-0		DWG. DIRECTORY	REF	
4	4	D-MD-M8963-0-0		DRILL & ETCH DWG.	REF	
5	5		5012890-00	M8963	1	
6	6		1001610-00	.01 MFD 50V -80-20% Z5U CER	34	C1-C17, C19-C28, C30-C34, C37, C38
7	7		1005306-00	5.8MFD 35V 10% STANT	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 0.12100X0.219	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, E27
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	74S04 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	74S74 FF-D DUAL, EDGE TRIGG	1	E28
24	24		1911521-00	7432 OR GATE-QUAD 2IN, PO	1	E22
25	25		1911573-00	74S280 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: M8963		DRN: H. WEINBRENNER		DATE: 17-JUL-78		D I G I T A L		
ENG:	ECO NUMBER	REV	SECTION A OF A	CHK'D:	C. CAMPBELL	DATE:	17-JUL-78	TITLE PARTS LIST			
WE	00001	B	SECTION VARIATION INDEX	DES. ENG.:	N. FINDEAN	DATE:	17-JUL-78	DOCUMENT NUMBER			
BK	M8963-ML002	C	[A] 00	RESP. ENG.:	N. FINDEAN	DATE:	17-JUL-78	SIZE	CODE	NUMBER	REV
RN	M8963-SH003	D	[B]	MFG. ENG.:	G. DILLARD	DATE:	17-JUL-78	K	PL	M8963-0-DBP	D
			[C]	ASSEMBLY NUMBER:	D-UA-M8963-0-0	TOP DOCUMENT NUMBER:	TS04	FILE NAME:	Z1472D.PLS	EDIT #	5
			[D]	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) 1983, DIGITAL EQUIPMENT CORPORATION.							
			[E]								
			[F]								
			[G]								
			[H]								
			[I]								
			[J]								
			[K]								
			[L]								
			[M]								
			[N]								

PSC 802-2148

1978

2 D J A M 8964-0-0



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

CHANGE NO	REV	BY	DATE
1	A	MEGA-MURD	7-19-78
2	B	MESGAL BOB	8-79
3	C	P. KINZELMAN	
4	D	P. KINZELMAN	
5	E	B. KRASNICK	
6	F	J. AMBROSIANO	
7	G	R. NUTE	

ETCH REV. CP2	PLC DESIGN DATA BRD REV. CL2 & CM2
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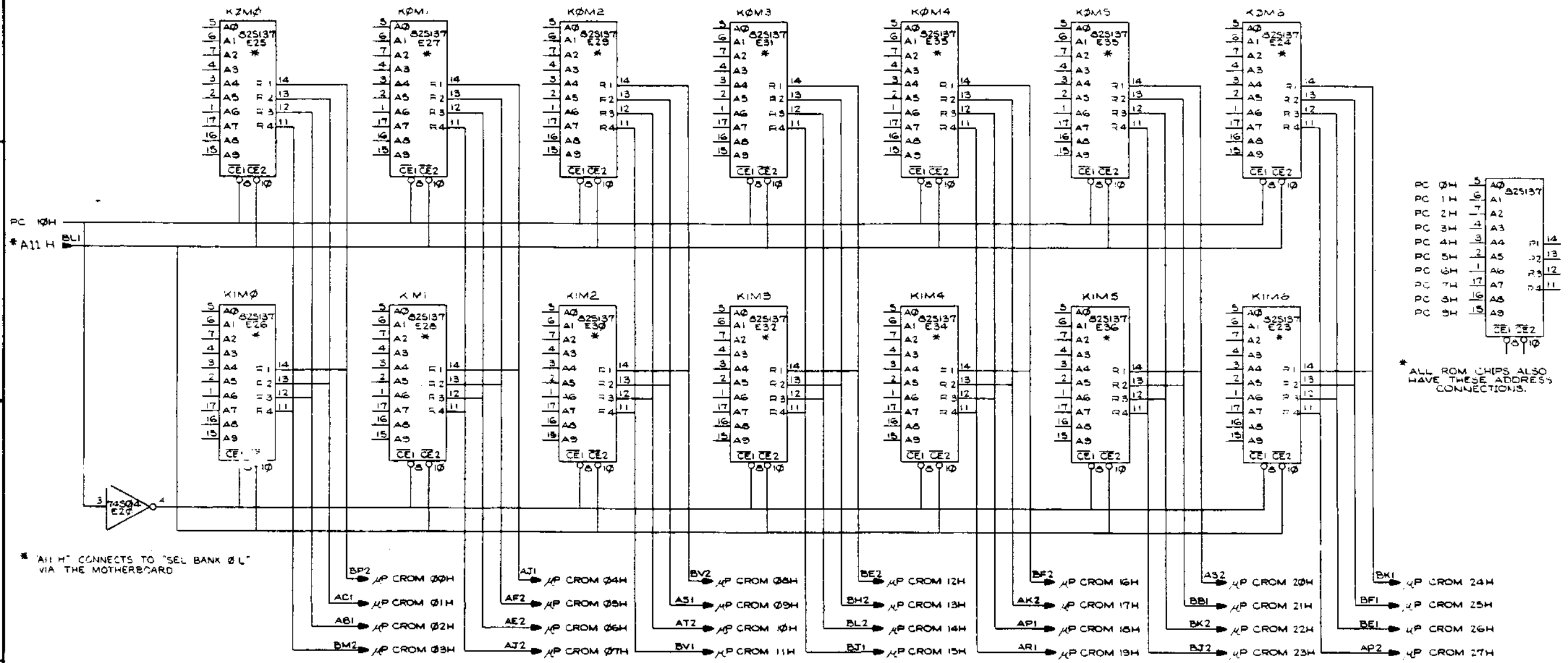
SIGNATURES	DATE	TITLE
DRN. <i>[Signature]</i>	7-19-78	ROM BOARD
CHK. O. <i>[Signature]</i>	7-20-78	
ENG. <i>[Signature]</i>	8-20-78	
PROJ. ENG. <i>[Signature]</i>	10-27-78	
PROD. <i>[Signature]</i>	10-27-78	
SCALE 2/1		SIZE CODE NUMBER
SMT. 1 OF 5		D J A M 8964-0-0
NEXT HIGH PRY. B-00-M8964-0		

digital

ROM BOARD

D J A M 8964-0-0

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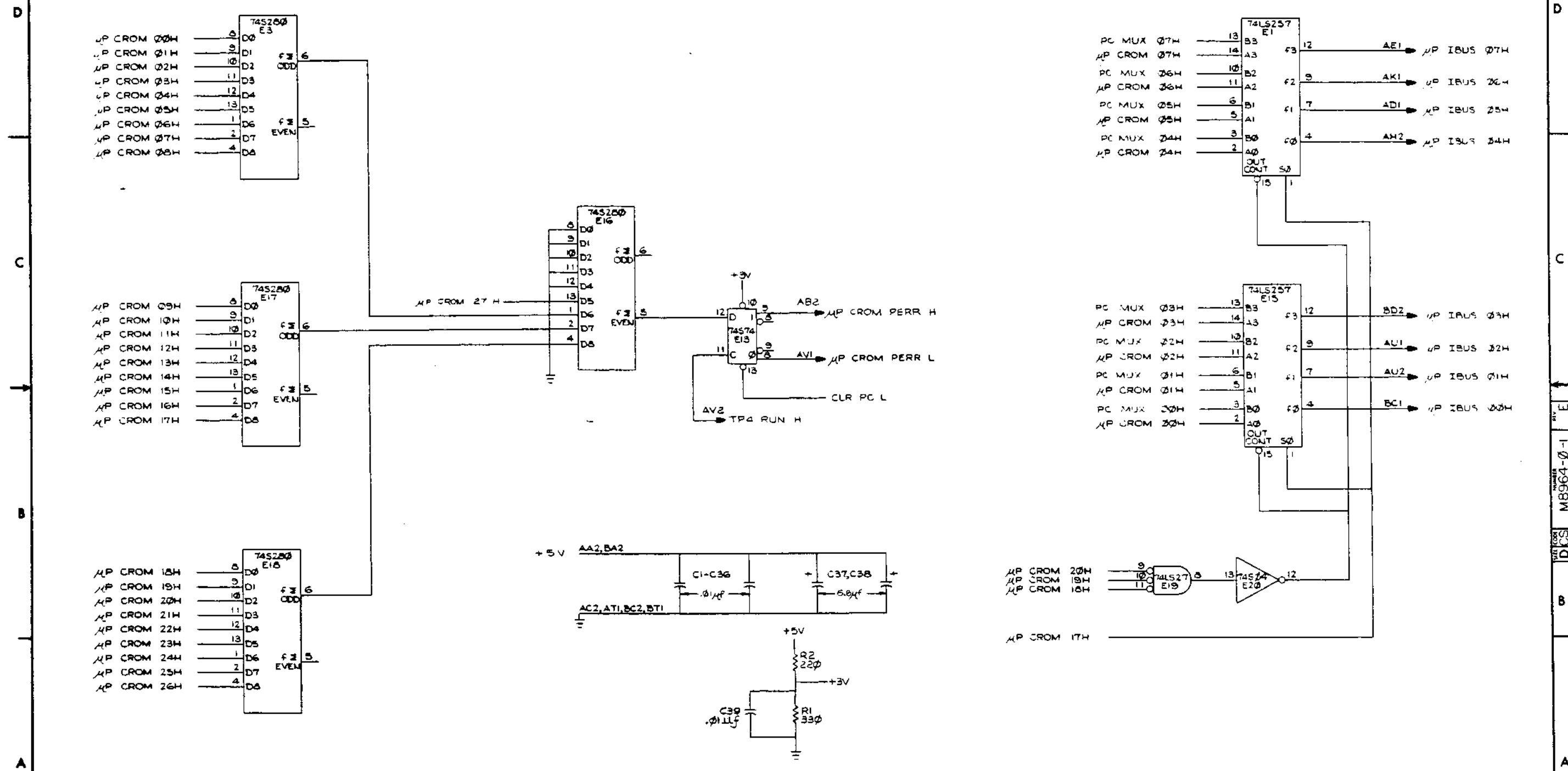


- * "A11 H" CONNECTS TO "SEL BANK 0L" VIA THE MOTHERBOARD
- * "A11 H" CONNECTS TO "SEL BANK 0L" VIA THE MOTHERBOARD
- BP2 → μP CROM 00H
- AC1 → μP CROM 01H
- AB1 → μP CROM 02H
- BM2 → μP CROM 03H
- AJ1 → μP CROM 04H
- AF2 → μP CROM 05H
- AE2 → μP CROM 06H
- AJ2 → μP CROM 07H
- BV2 → μP CROM 08H
- AS1 → μP CROM 09H
- AT2 → μP CROM 10H
- BV1 → μP CROM 11H
- BE2 → μP CROM 12H
- BH2 → μP CROM 13H
- BL2 → μP CROM 14H
- BJ1 → μP CROM 15H
- BF2 → μP CROM 16H
- AK2 → μP CROM 17H
- AP1 → μP CROM 18H
- AR1 → μP CROM 19H
- AS2 → μP CROM 20H
- BK1 → μP CROM 21H
- BB1 → μP CROM 21H
- BK2 → μP CROM 22H
- BJ2 → μP CROM 23H
- BK1 → μP CROM 24H
- BF1 → μP CROM 25H
- BE1 → μP CROM 26H
- AP2 → μP CROM 27H

REV.	DATE	BY	CHK'D	APP'D
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DRW. 3	DATE 4-25-77	FILED 1000	REV. 1
CHK'D 2	DATE 6-1-77	FILED 1000	REV. 1
ENGR. 2	DATE 6-1-77	FILED 1000	REV. 1
PROJ. ENGR. 4	DATE 6-1-77	FILED 1000	REV. 1
PROD. 2	DATE 6-1-77	FILED 1000	REV. 1
NEXT NUMBER ASBY.			
E-00-M8964-0			
SCALE	D	CS	M8964-0-1
SHEET	OF 3	DES.	
TITLE			
ROM BOARD			
NUMBER			
ML2			

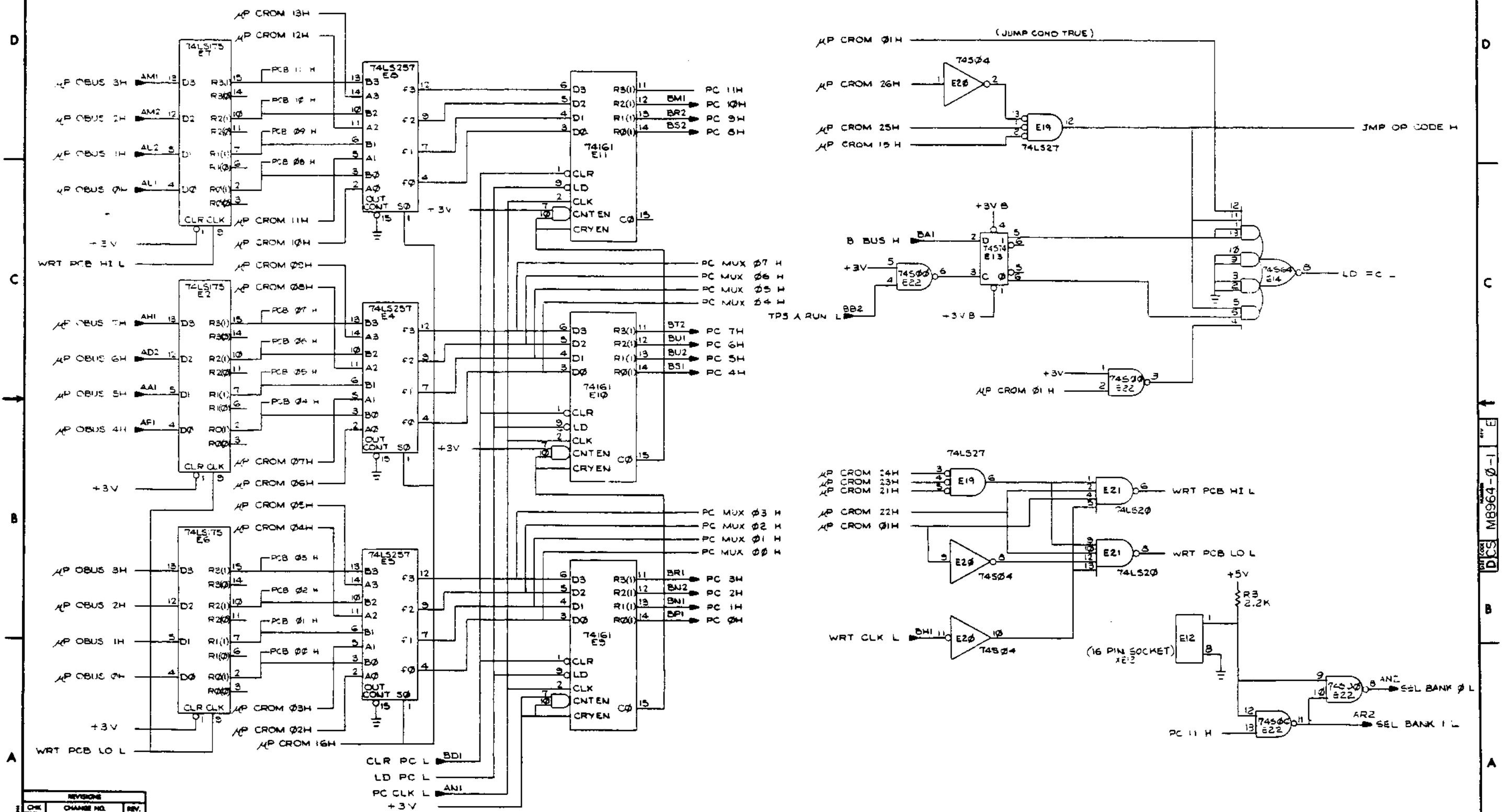
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CHK	CHANGE NO.	REV.
	M8964-NL002	A
ERN	Paul K. Colson	1/1/77
ENG	PAUL KINZELMANN	

M8964-0-1 REV. E

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REVISIONS		
CHK	CHANGE NO.	REV.
W	M8964-M8962	A
CRN	Design of [Signature]	10/77
ENC	PAUL KINZELMAN	10/77

TITLE	ROM BOARD	SIZE	0008	NUMBER	DCS M8964-0-1	REV.	E
SCALE	1:1	SHEET	3	OF	3	DATE	

DCS M8964-0-1

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-D-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]	RESP.ENG.:	P.KINZELMAN	DATE:	12-SEP-79			DOCUMENT NUMBER	
			! [F]					SIZE	CODE	NUMBER	REV
			! [G]								
			! [H]								
			! [I]	MFG.ENG.:	P.BARTON	DATE:	18-JUL-78	K	PL	M8964-0-DBP	E
			! [J]								
			! [K]								
			! [L]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #	
			! [M]	!D-UA-M8964-0-0		!TS04		! Z0609E.FLS		! 10	
			! [N]								

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ML2

PARTS LIST

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	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							ROM BOARD		K	PL	M8964-0-DBP	E

0-0-5968M V1 Q 2

COMPONENT SIDE VIEW

25 TYP

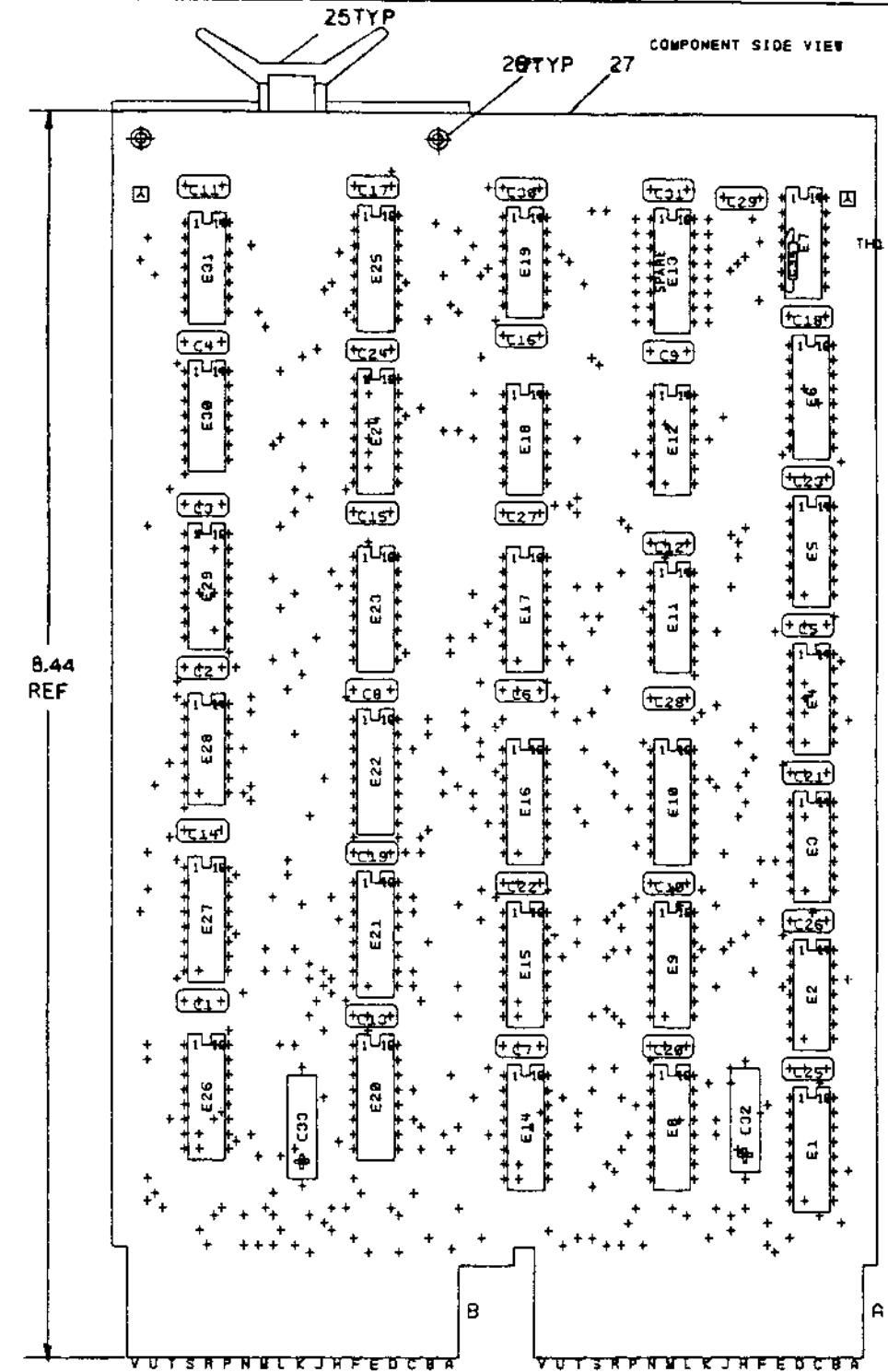
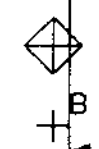
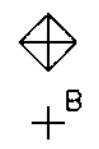
26 TYP

27

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ECO #1
COMPONENT ADD: SIDE 1
-1- CAPACITOR (C34) BETWEEN E7 AND E4

8.44
REF



NOTES:

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

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

SIGNATURES		DATE
DAN. <i>[Signature]</i>		16/09/77
CNK D. <i>[Signature]</i>		27/09/77
ENG. H. <i>[Signature]</i>		27/09/77
PROJ. ENG. <i>[Signature]</i>		11/12/78
PROD. <i>[Signature]</i>		
SCALE	2/1	
SHT.	1 OF 3	
NEXT HIGHER ASSY.	B-D0-M8965-0	

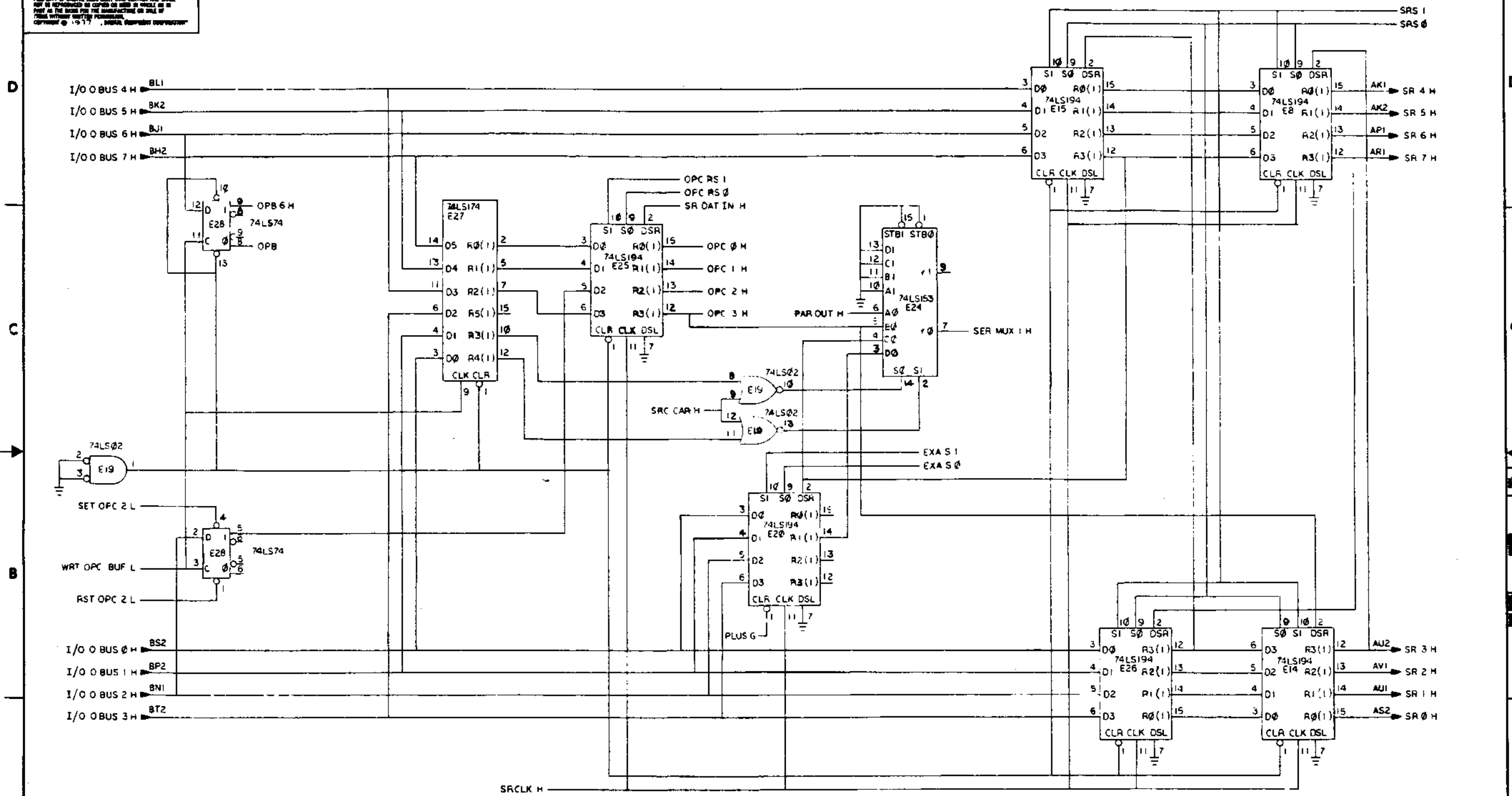
digital

TITLE
I/O SECTION 1

SIZE CODE NUMBER REV
0 UA M8965-0-0 C

1 MS# 116062

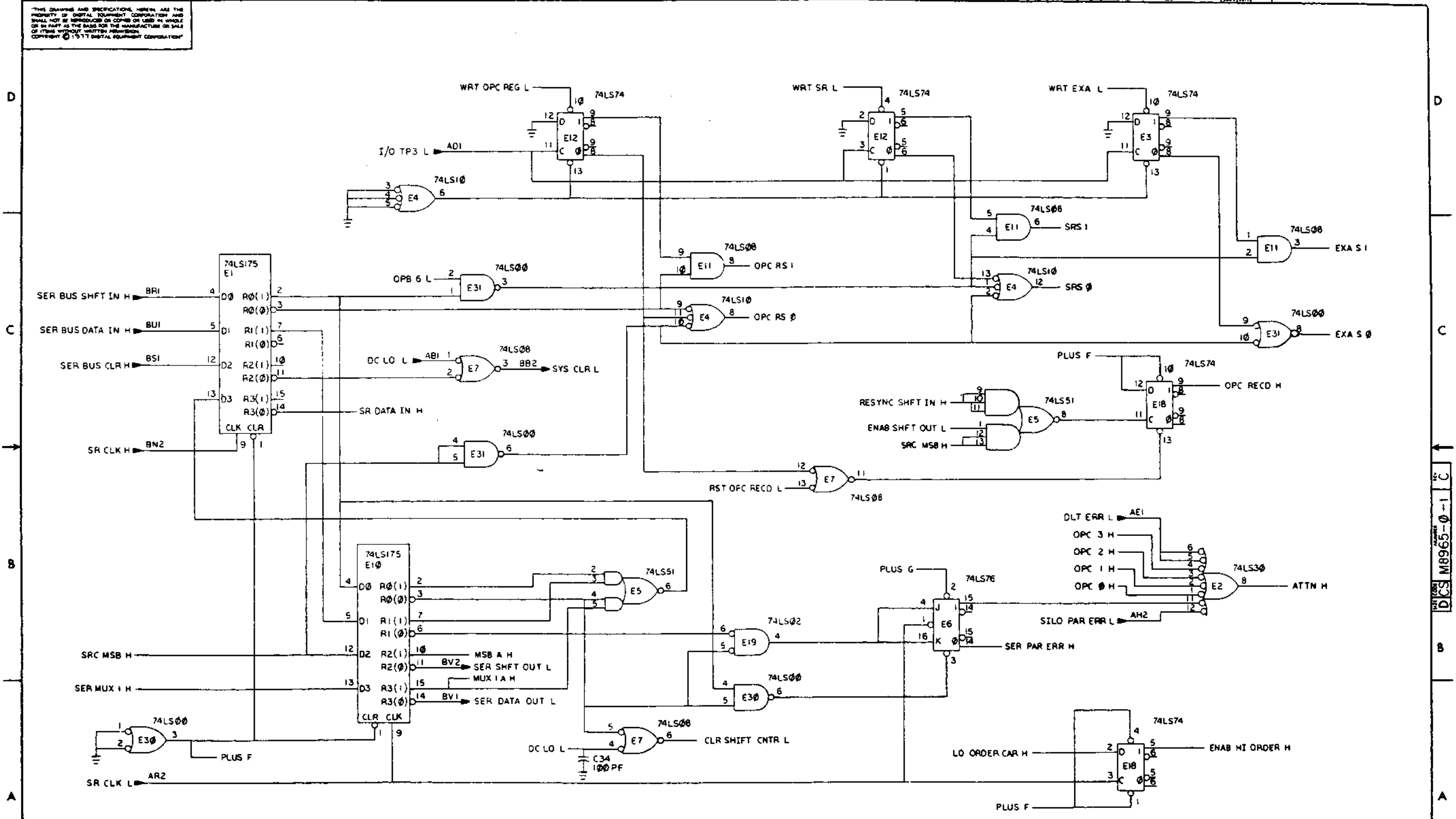
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REV.	BY	CHKD	DATE
1	BL	BL	11/19/77
2	BL	BL	11/19/77
3	BL	BL	11/19/77
4	BL	BL	11/19/77

DRAWN: [Signature]		FINISH USED ON: TS04	
CHK'D: [Signature]		TITLE: I/O SECTION 1	
ENG. [Signature]		SCALE: NONE	
PROJ. ENG. [Signature]		SHEET: 1 OF 3	
NEXT HIGHER ASSY: B-DD-M8965-0		SIZE CODE: DCS	NUMBER: M8965-0-1
REV. C		REV. C	

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REVISIONS		
CHK	CHANGE NO	REV

DCS M8965-0-1 C

8

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6

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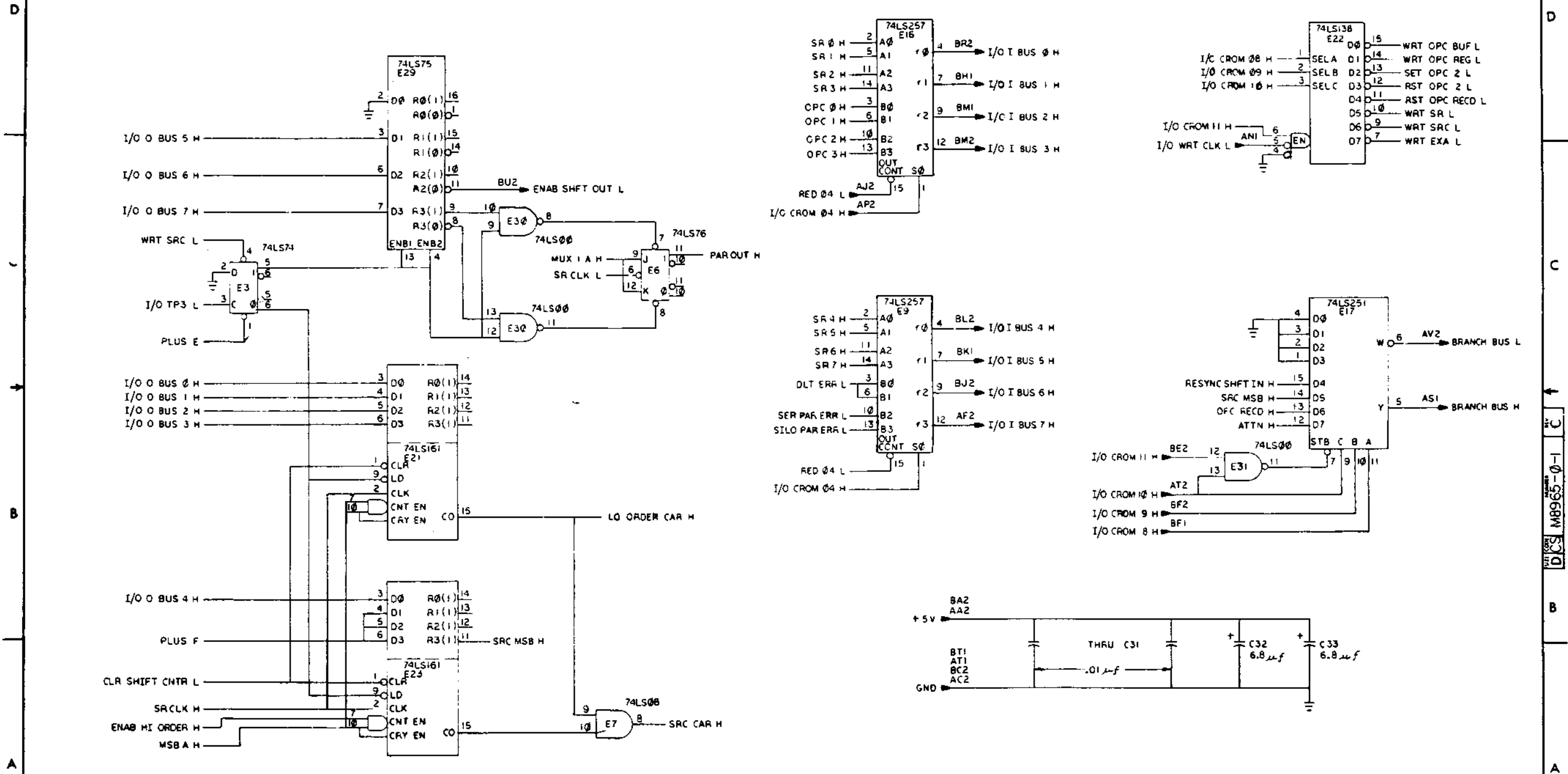
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3

1-0-9968W SCD 2

1

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REVISIONS		
CHK	CHANGE NO.	REV

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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
					00	
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		DRN: DON COREY		DATE: 07-NOV-77		DIGITAL			
ENG	ECD NUMBER	REV	SECTION A OF A	CHK'D:	DATE:	TITLE	PARTS LIST					
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B.K	ML001	C	[A] 00			I/O SECTION 1						
			[B]									
			[C]	DES.ENG:	DATE:							
			[D]									
			[E]				DOCUMENT NUMBER					
			[F]	RESP.ENG.:	DATE:							
			[G]				SIZE	CODE	NUMBER	REV		
			[H]									
			[I]	MFG.ENG.:	DATE:		K	PL	M8965-0-DBP	C		
			[J]									
			[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 [D] 2 1

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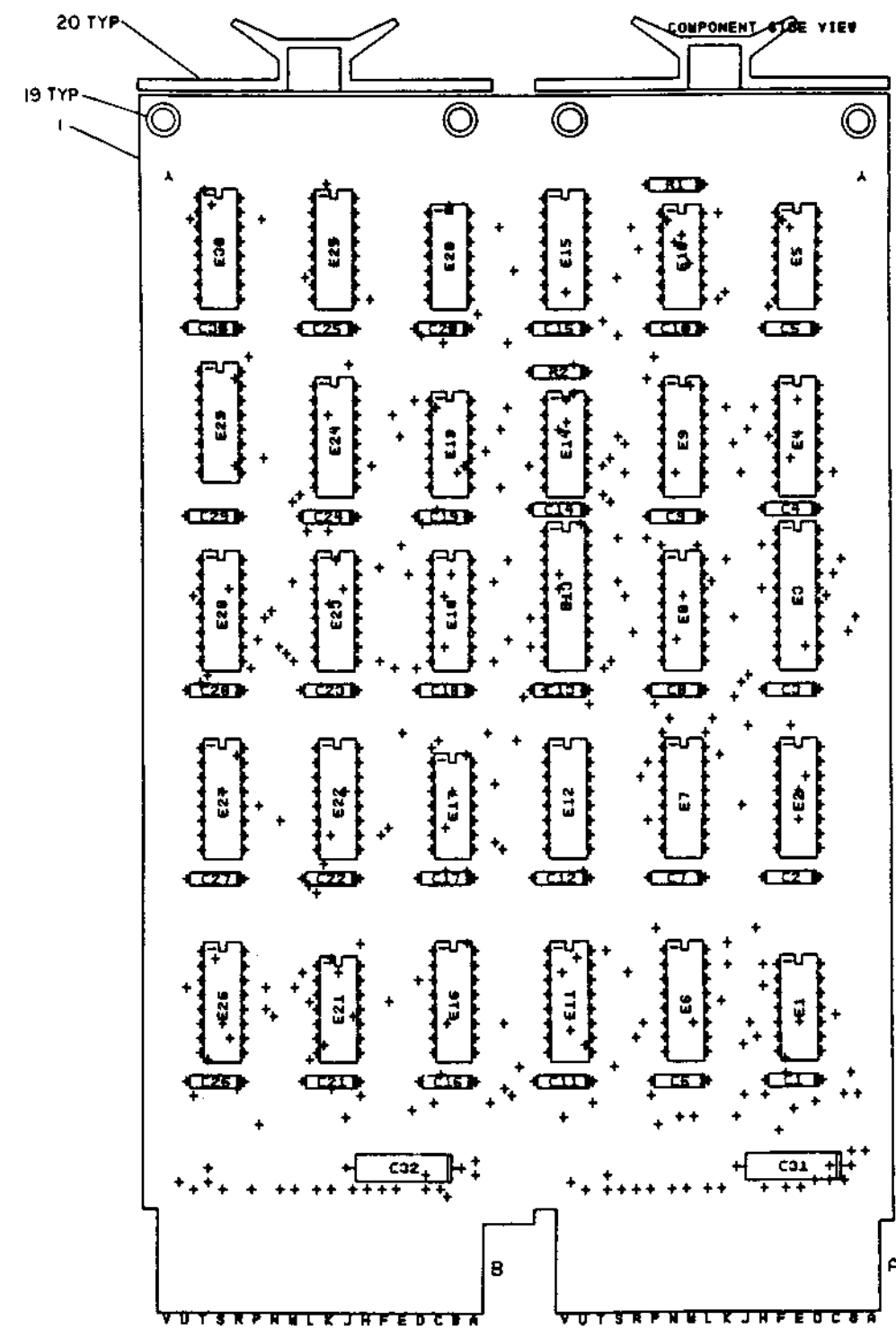
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1978



NOTES:

CHANGE NO	REV	DATE	BY
1	B	10-1-78	D. B. Cassidy
2	C	1-1-79	B. R. SNICK
3		2-1-79	

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

SIGNATURES	DATE
DRN. <i>[Signature]</i>	1-1-78
CHK'D. D. Cassidy	10-1-78
ENC. <i>[Signature]</i>	1-1-79
PROJ. ENG. <i>[Signature]</i>	2-1-79
SCALE	2/1
SMT.	1 OF 5
NEXT HIGHER ASSY.	8-00-M8966-0

digital	TITLE	1/0 SECTION 2
0 UA M8966-0-0	SIZE CODE	NUMBER
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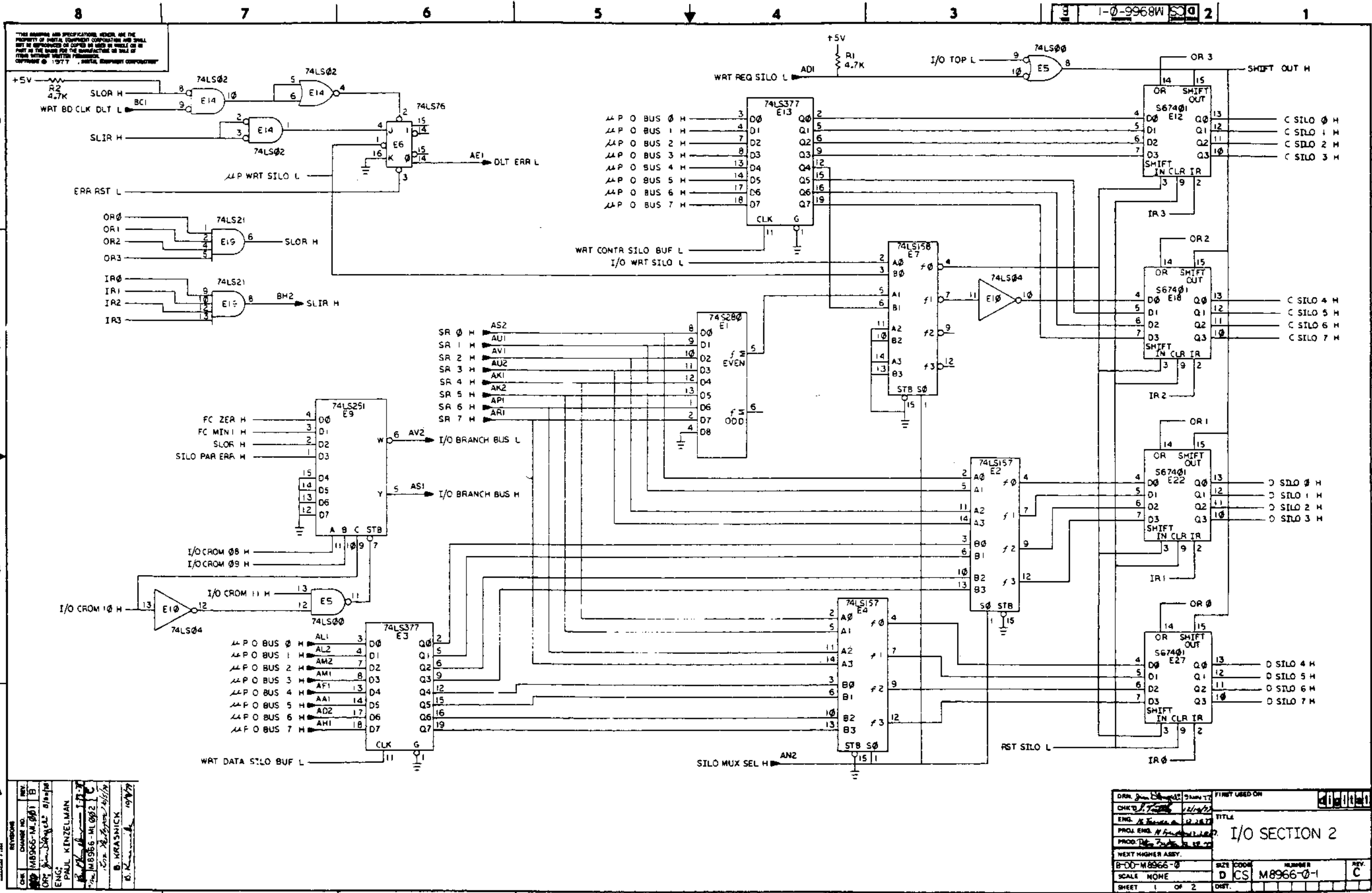
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1

MS# 262426

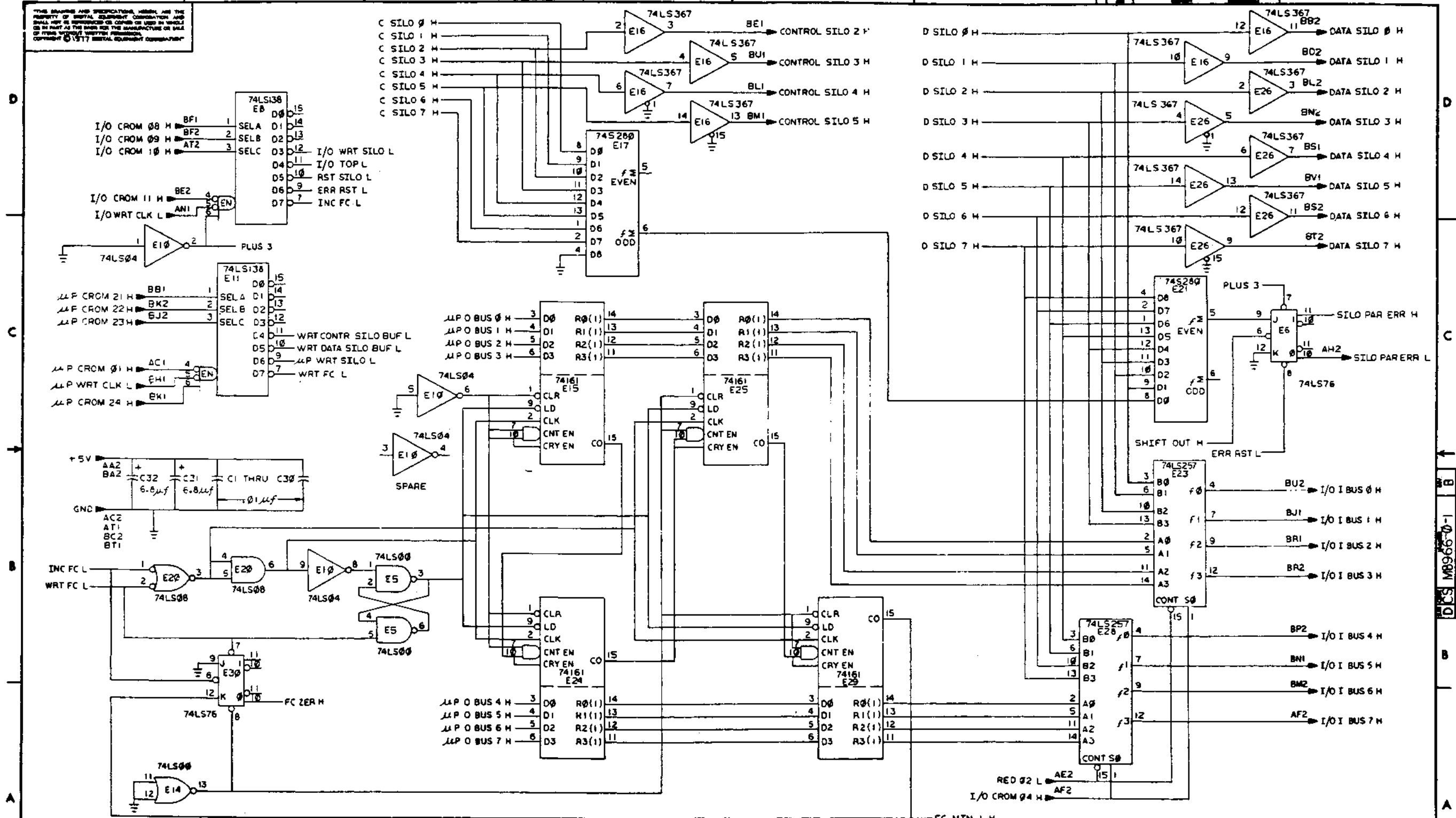


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REV.	DATE	BY	CHK'D
1	11/17/77	PAUL KENZELMAN	
2	12/14/77	PAUL KENZELMAN	
3	1/10/78	PAUL KENZELMAN	
4	1/10/78	PAUL KENZELMAN	
5	1/10/78	PAUL KENZELMAN	
6	1/10/78	PAUL KENZELMAN	
7	1/10/78	PAUL KENZELMAN	
8	1/10/78	PAUL KENZELMAN	

DRN. J. J. [Signature]	DATE 11/17/77	FIRST USED ON	
ENGR. [Signature]	DATE 12/14/77	TITLE	I/O SECTION 2
PROJ. ENGR. [Signature]	DATE 1/10/78		
PROD. [Signature]	DATE 1/10/78		
NEXT HIGHER ASSY.		SIZE CODE	NUMBER
B-00-M8966-0		D	CS M8966-0-1
SCALE NONE		REV.	C
SHEET 1 OF 2		DRW.	

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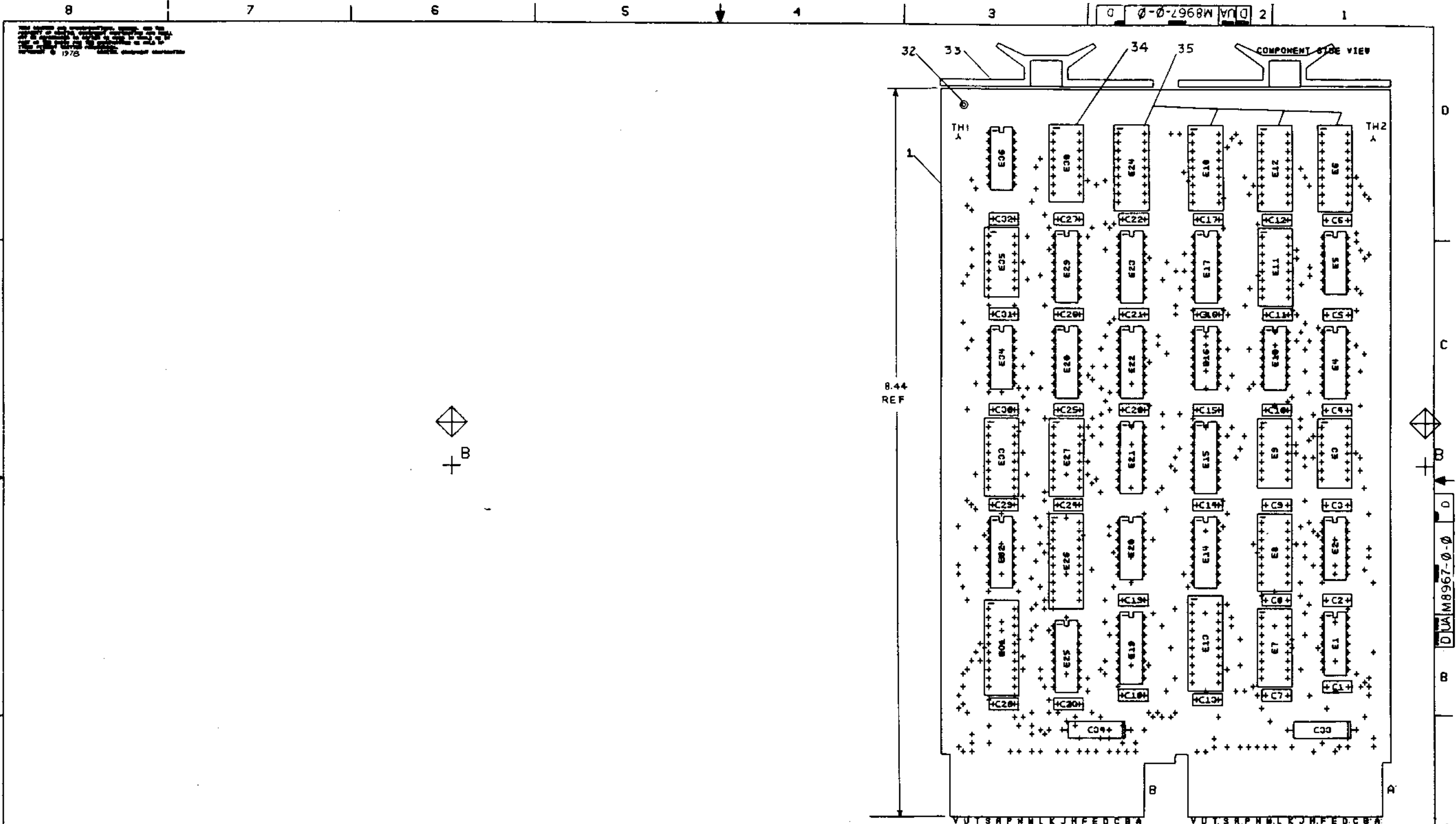


REV.	CHANGE NO.	REV.
001	M8966 ML001	B
002		
003		
004		
005		
006		
007		
008		
009		
010		

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
					00	
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	CHK'D:	W.CASSIDY	DATE:	29-AUG-78	I/O SECTION 2			
ER	ML001	B	[A] 00	DES.ENG:	B.KRASNICK	DATE:	29-AUG-78				
BK	M8966-ML002	C	[B]	RESP.ENG.:	B.KRASNICK	DATE:	29-AUG-78	DOCUMENT NUMBER			
			[C]	MFG.ENG.:	P.BARTON	DATE:	29-AUG-78	SIZE	CODE	NUMBER	REV
			[D]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		K	PL	M8966-0-DBP	C
			[E]	D-UA-M8966-0-0		TS04		FILE NAME:	Z0950C.PLS		EDIT #
			[F]							9	

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NOTES:

CHANGE NO	REV	DATE	BY	CHKD
1	A	11/10/76	P. KINZELIAN	
2	B	11/10/76	P. KINZELIAN	
3	C	11/10/76	P. KINZELIAN	
4	D	11/10/76	P. KINZELIAN	

ETCH REV. C-P1
P.C. DESIGN DATA BRD REV. C

SIGNATURES	DATE	TITLE
DRN. <i>[Signature]</i>	11/10/76	digital
CHK'D. <i>[Signature]</i>	11/10/76	
ENC. <i>[Signature]</i>	11/10/76	
PROJ. ENG. <i>[Signature]</i>	11/10/76	
PROD. <i>[Signature]</i>	11/10/76	
SCM. <i>[Signature]</i>	11/10/76	
SHT. 1 OF 3		
NEXT HIGHER REV. b-DD-M8967-0		

8 7 6 5 4 3 2 1

DUA M8967-0-0

COMPONENT SIDE VIEW

TH1 TH2

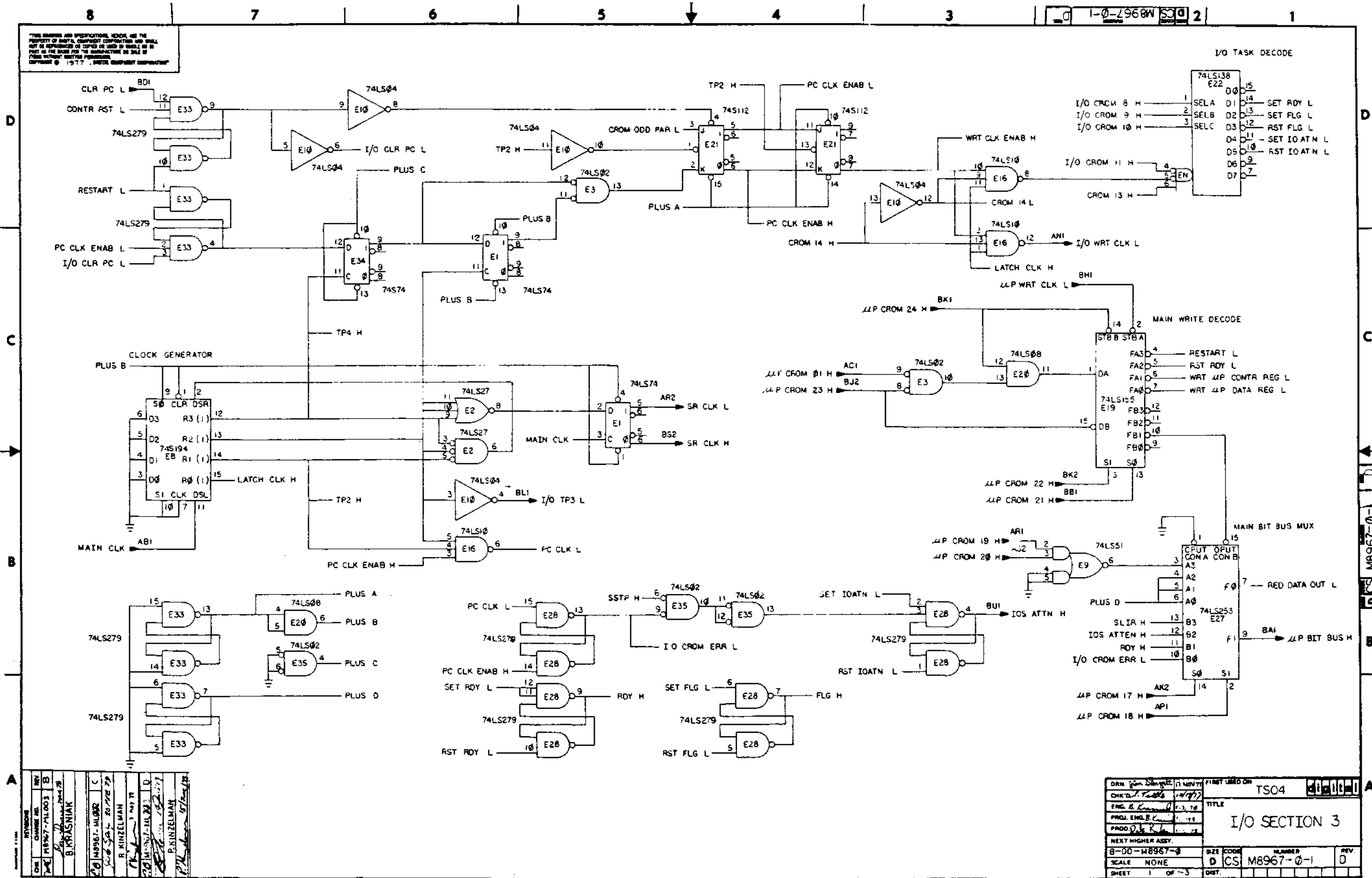
8.44 REF

VUTSRPNMLKJHFEDCBA

A B C D

1 MS#

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REV	REV	REV	REV	REV	REV
1	2	3	4	5	6
DATE	DATE	DATE	DATE	DATE	DATE
BY	BY	BY	BY	BY	BY
CHKD	CHKD	CHKD	CHKD	CHKD	CHKD
ENGR	ENGR	ENGR	ENGR	ENGR	ENGR
PRD	PRD	PRD	PRD	PRD	PRD
DESIGNER	DESIGNER	DESIGNER	DESIGNER	DESIGNER	DESIGNER
DRN	DRN	DRN	DRN	DRN	DRN

DRN	CHKD	ENGR	PRD	DESIGNER	DRN
DATE	DATE	DATE	DATE	DATE	DATE
BY	BY	BY	BY	BY	BY
CHKD	CHKD	CHKD	CHKD	CHKD	CHKD
ENGR	ENGR	ENGR	ENGR	ENGR	ENGR
PRD	PRD	PRD	PRD	PRD	PRD
DESIGNER	DESIGNER	DESIGNER	DESIGNER	DESIGNER	DESIGNER
DRN	DRN	DRN	DRN	DRN	DRN

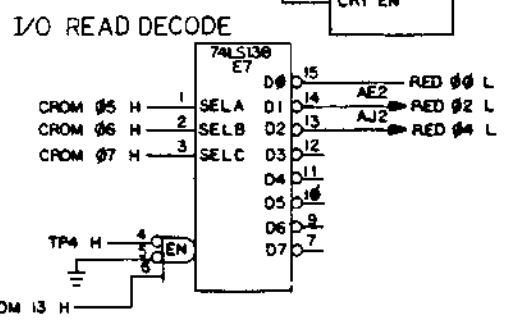
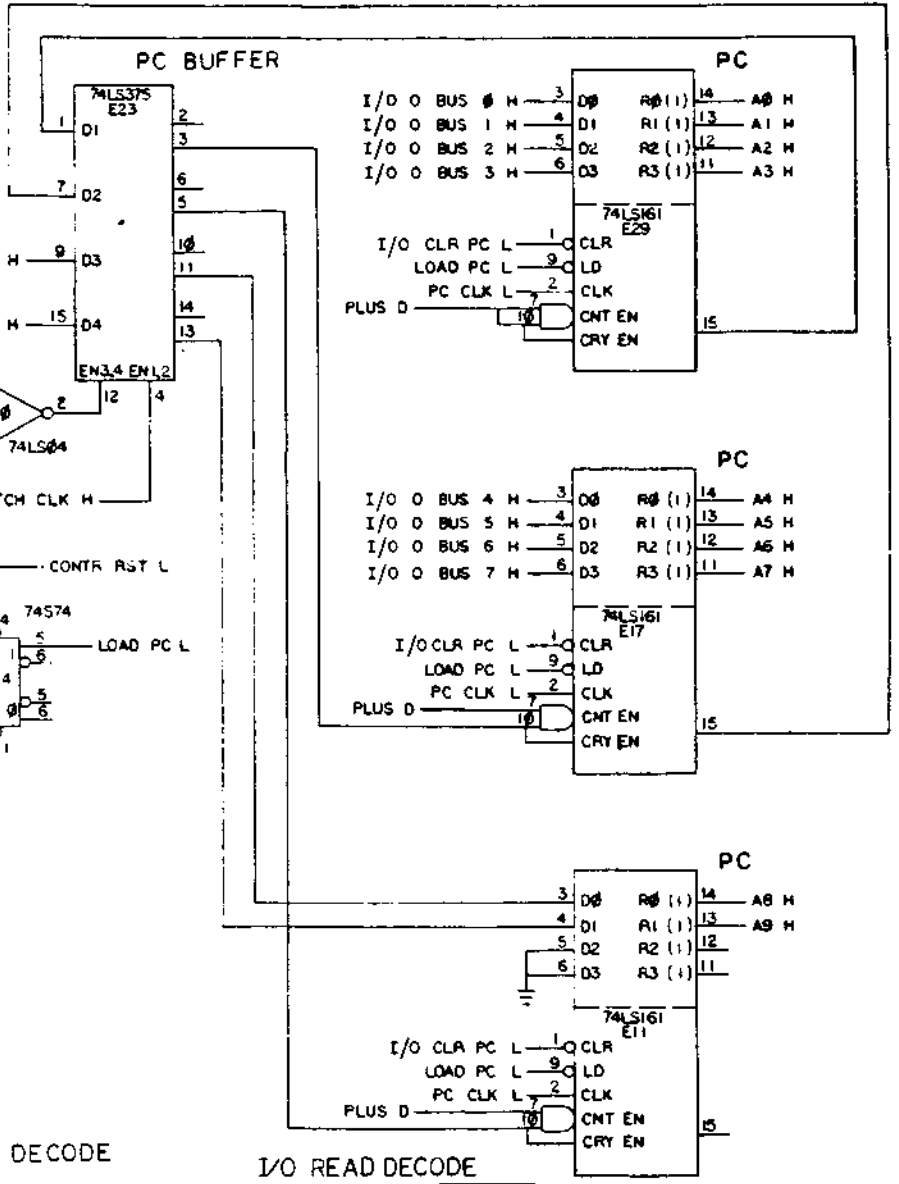
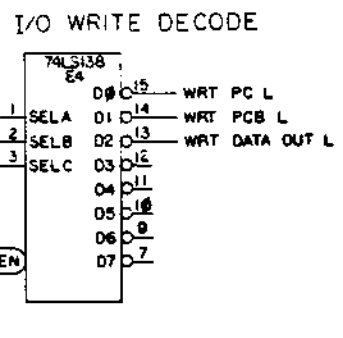
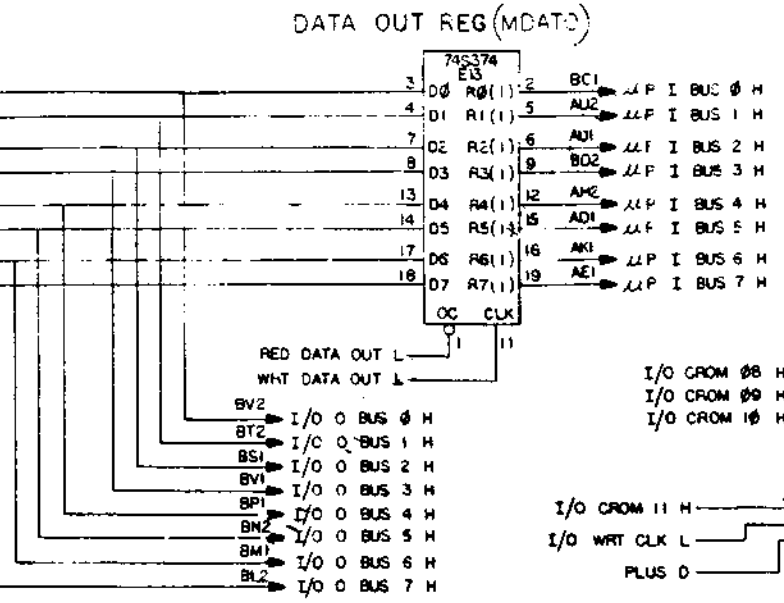
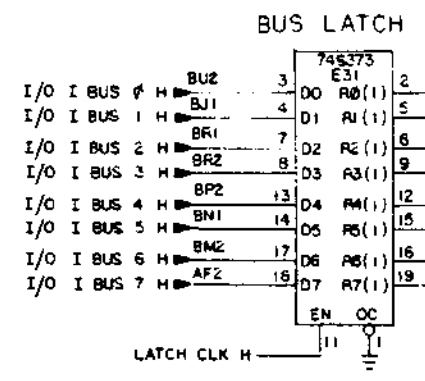
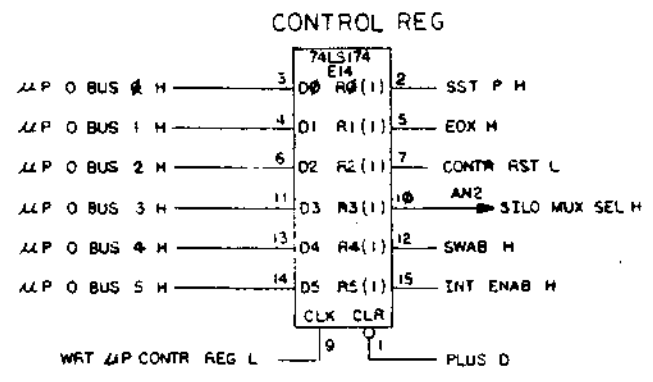
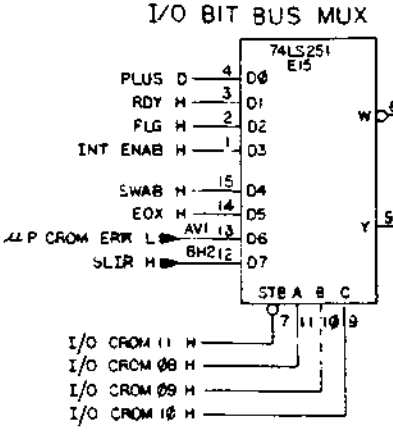
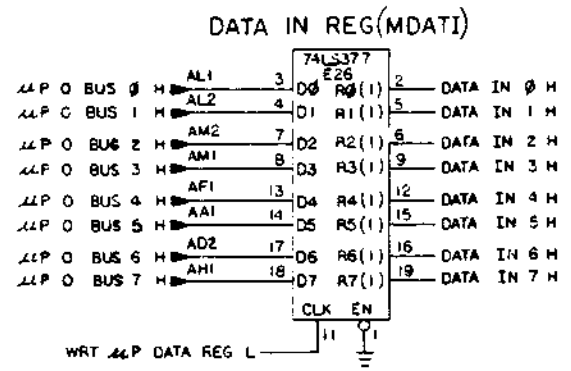
TS04

TITLE: I/O SECTION 3

SCALE: NONE

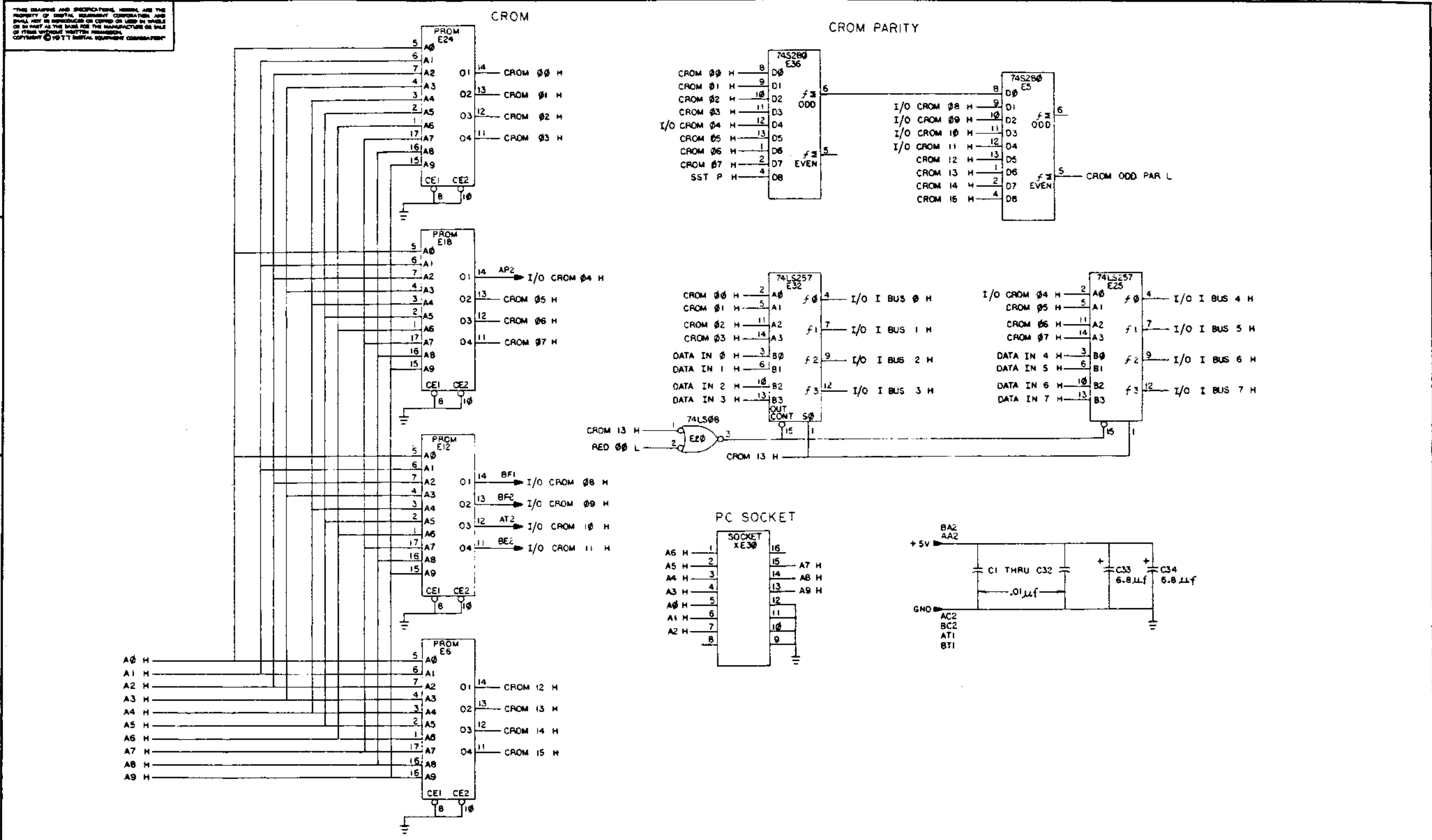
SHEET: 1 OF 3

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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
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		1912897-00	LS174 FF-D HEX W/CLEAR	1		E14
19	19		1912848-00	LS251 MUX 8 INPUT, TRI-STA	1		E15
20	20		1912846-00	LS253 MUX 1 OF 4 (DUAL)	1		E27
21	21		1912847-00	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		E24
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	PARTS LIST	
---	00000	A	SECTION VARIATION INDEX					I/O SECTION 3	
CL	MLO01	B	(A) 00						
P.K.	M8967-MLO02	C	(B)						
P.K.	M8967-MLO03	D	(C)						
			(D)						
			(E)						
			(F)						
			(H)						
			(J)						
			(K)						
			(L)						
			(M)						
			(N)						
				DES. ENG.:	H. FINDEISEN	DATE:	22-AUG-78		
				RESP. ENG.:	H. FINDEISEN	DATE:	22-AUG-78		
				MFG. ENG.:	E. PINA	DATE:	22-AUG-78		
				ASSEMBLY NUMBER:	D-UA-M8967-0-0	TOP DOCUMENT NUMBER:	T504	FILE NAME:	Z03220.PLS
								NUMBER	REV
								K PL	M8967-0-DBP
									D
									8

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AUTOMATED BY PRT,ST,2E(3)

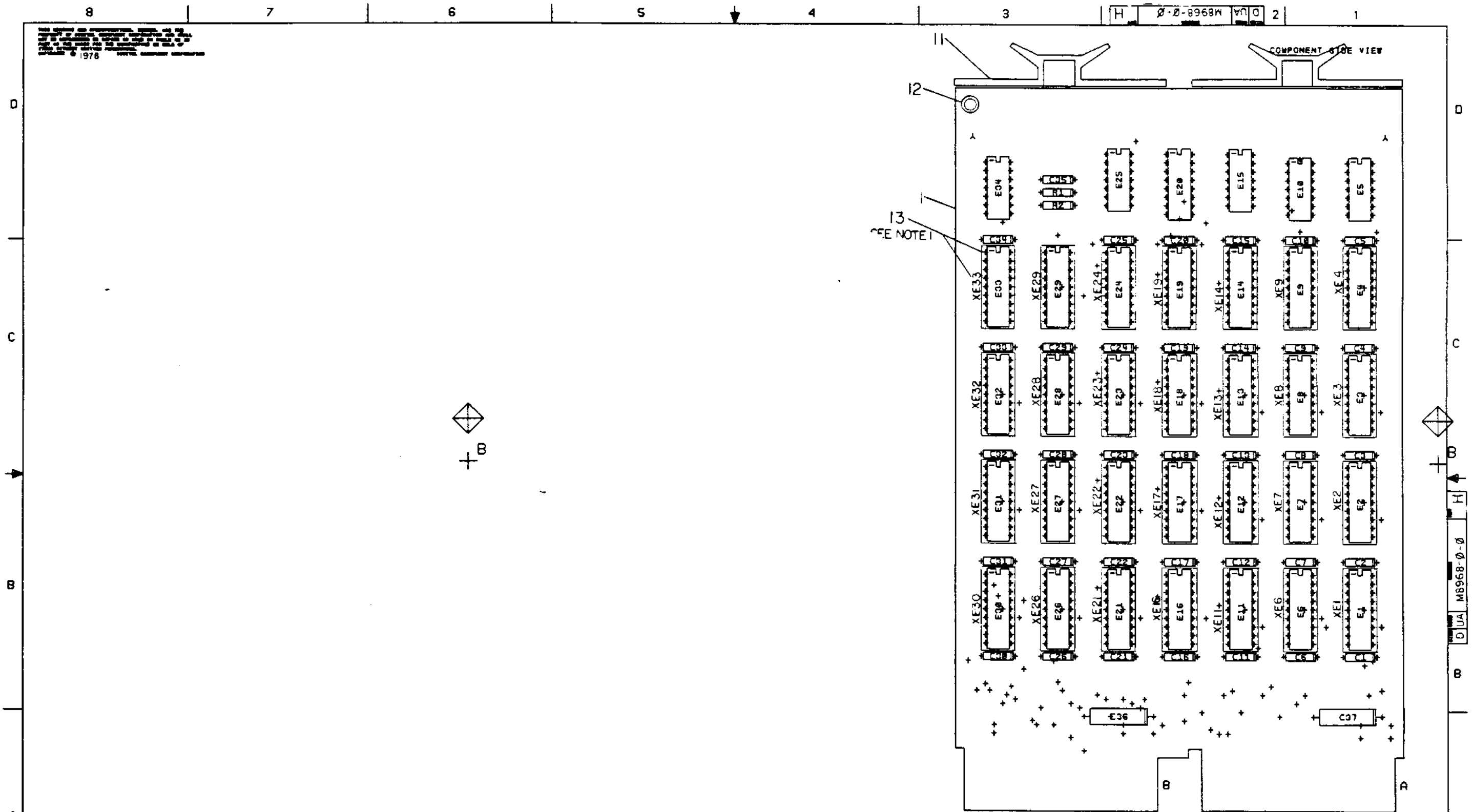
P A R T S L I S T

SHEET A2 OF A2

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
31	31	23002F1-01	*** THIS ITEM IS NOT USED ***	-	
32	32	9006733-00	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

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

1978



NOTES: 1. INSTALL ITEM 13. SOCKETS BEFORE INSTALLING ITEM 6. ROMS.

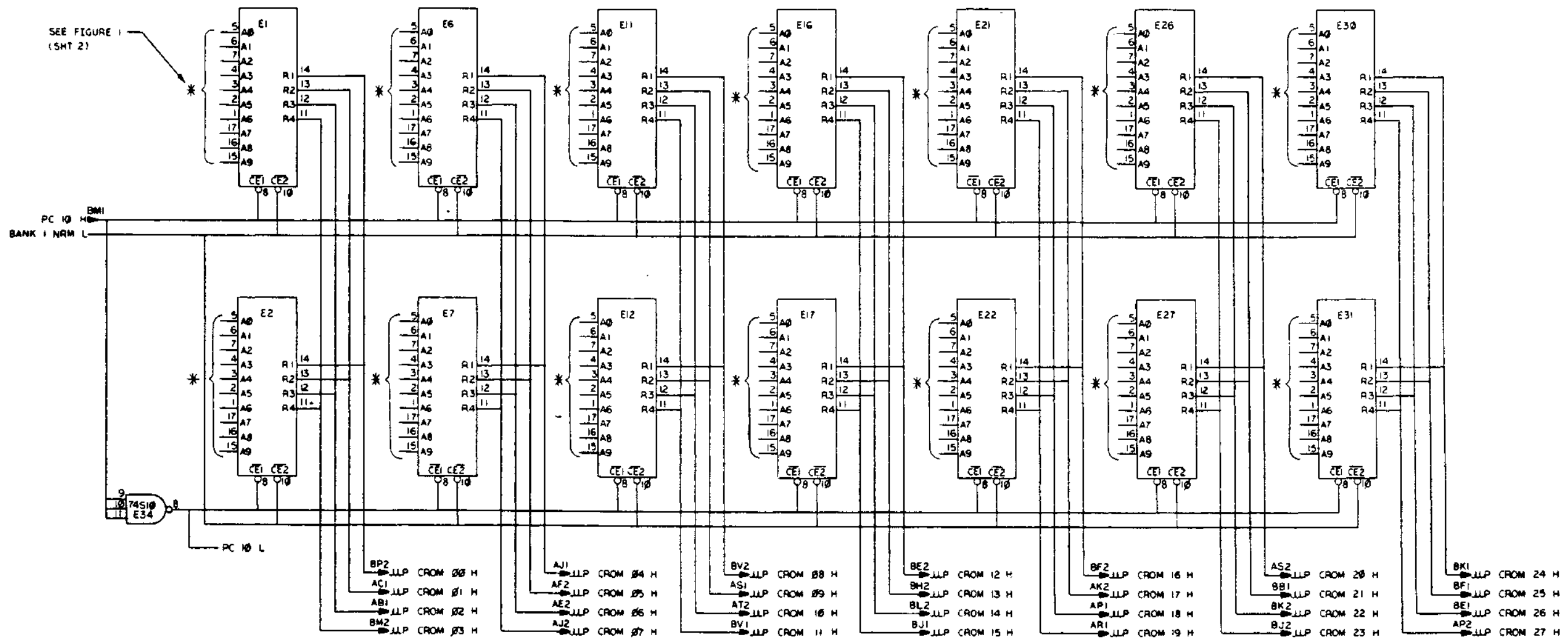
CHANGE NO	REV	DATE	BY	CHK'D
1	C	27 JUN 78	PAUL KIRZELMAN	
2	B	27 JUN 78	PAUL KIRZELMAN	
3	A	27 JUN 78	PAUL KIRZELMAN	
4	A	27 JUN 78	PAUL KIRZELMAN	
5	A	27 JUN 78	PAUL KIRZELMAN	
6	A	27 JUN 78	PAUL KIRZELMAN	
7	A	27 JUN 78	PAUL KIRZELMAN	
8	A	27 JUN 78	PAUL KIRZELMAN	
9	A	27 JUN 78	PAUL KIRZELMAN	
10	A	27 JUN 78	PAUL KIRZELMAN	
11	A	27 JUN 78	PAUL KIRZELMAN	
12	A	27 JUN 78	PAUL KIRZELMAN	
13	A	27 JUN 78	PAUL KIRZELMAN	
14	A	27 JUN 78	PAUL KIRZELMAN	
15	A	27 JUN 78	PAUL KIRZELMAN	
16	A	27 JUN 78	PAUL KIRZELMAN	
17	A	27 JUN 78	PAUL KIRZELMAN	
18	A	27 JUN 78	PAUL KIRZELMAN	
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23	A	27 JUN 78	PAUL KIRZELMAN	
24	A	27 JUN 78	PAUL KIRZELMAN	
25	A	27 JUN 78	PAUL KIRZELMAN	
26	A	27 JUN 78	PAUL KIRZELMAN	
27	A	27 JUN 78	PAUL KIRZELMAN	
28	A	27 JUN 78	PAUL KIRZELMAN	
29	A	27 JUN 78	PAUL KIRZELMAN	
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31	A	27 JUN 78	PAUL KIRZELMAN	
32	A	27 JUN 78	PAUL KIRZELMAN	
33	A	27 JUN 78	PAUL KIRZELMAN	
34	A	27 JUN 78	PAUL KIRZELMAN	
35	A	27 JUN 78	PAUL KIRZELMAN	
36	A	27 JUN 78	PAUL KIRZELMAN	
37	A	27 JUN 78	PAUL KIRZELMAN	
38	A	27 JUN 78	PAUL KIRZELMAN	
39	A	27 JUN 78	PAUL KIRZELMAN	
40	A	27 JUN 78	PAUL KIRZELMAN	

ETCH REV. C
P.C. DESIGN DATA BRSE REV. CL & CM

SIGNATURES	DATE	digital
DRN. <i>[Signature]</i>	7-11-78	
CHK'D. <i>[Signature]</i>	7-20-78	
ENG. <i>[Signature]</i>	7-17-78	
PROJ. ENG. <i>[Signature]</i>	7-15-78	
PROD. <i>[Signature]</i>	7-12-78	
SCALE 2/1		
SHT. 1 OF 5		
TITLE ROM EXTENSION BOARD		
SIZE CODE	NUMBER	REV
D U A M8968-8-8	M8968-8-8	H

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SEE FIGURE 1 (SMT 2)



REV	DATE	BY	CHKD BY	APP'D BY	REVISION
1	11/27/78	P. KINZELMAN			INITIAL DESIGN
2	12/1/78	P. KINZELMAN			REVISED FOR SMT
3	12/1/78	P. KINZELMAN			REVISED FOR SMT
4	12/1/78	P. KINZELMAN			REVISED FOR SMT
5	12/1/78	P. KINZELMAN			REVISED FOR SMT
6	12/1/78	P. KINZELMAN			REVISED FOR SMT
7	12/1/78	P. KINZELMAN			REVISED FOR SMT

DATE	12/20/78	FIRST USED ON	TS04
ENG. BY	P. KINZELMAN	TITLE	ROM EXTENSION BOARD
PROJ. ENGR.	P. KINZELMAN	SCALE	D CS
PROJ. MGR.	P. KINZELMAN	NUMBER	M8968-0-1
REV. 1		REV.	H
SHEET 1 OF 2		DRW.	

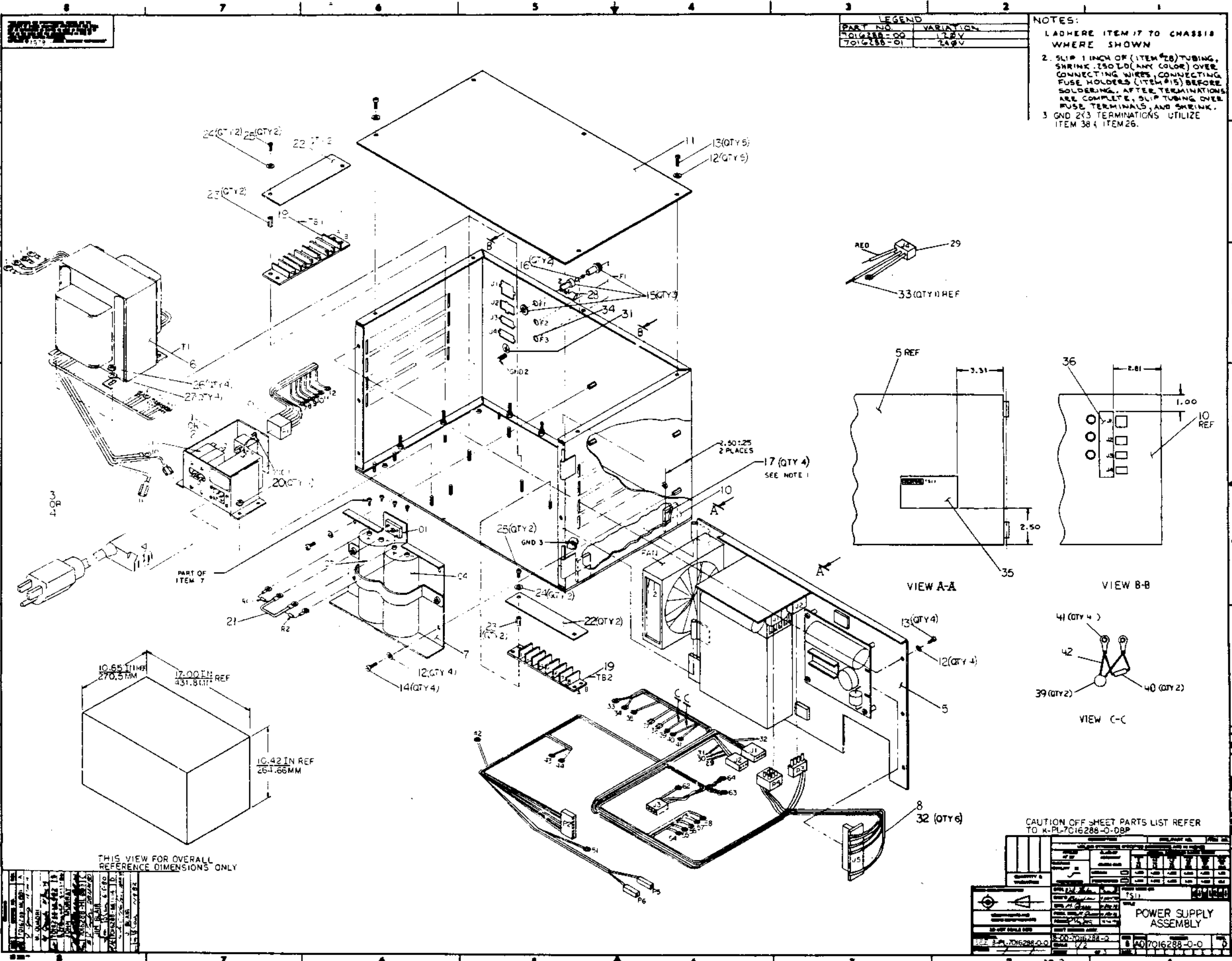
LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
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1	1	5013277-00	M8968	1	
2	2	1001610-00	.01 MFD 50V +80-20% Z5U CER	35	C1-C35
3	3	1005306-00	6.8MFD 35V 10% S.TANT	2	C36,C37
4	4	1300271-00	220.0 .25 W 5.0 % CC	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	CONT XE1-XE4,XE6-XE9,XE11-XE14, 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			
PK	M8968-ML001	C	[A] 00	RESP.ENG.:	R.ODOM	DATE:	01-MAR-78	SIZE	CODE	NUMBER	REV
PK	M8968-ML002	D	[B]	MFG.ENG.:	T.BARTON	DATE:	01-MAR-78	K	PL	M8968-0-DBP	H
PK	M8968-ML003	E	[C]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #	
PK	M8968-ML004	F	[D]	D-UA-M8968-0-0		TS04		Z0597H.PLS		23	
RN	M8968-ML005	H	[E]								

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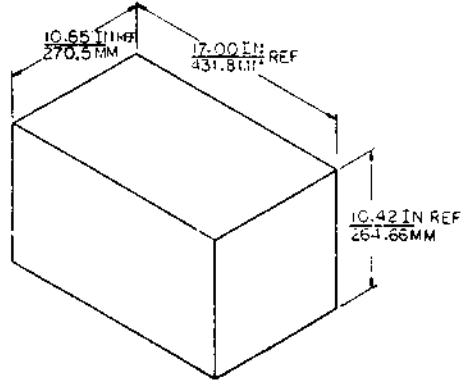
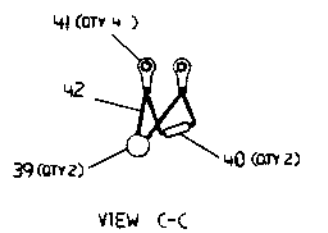
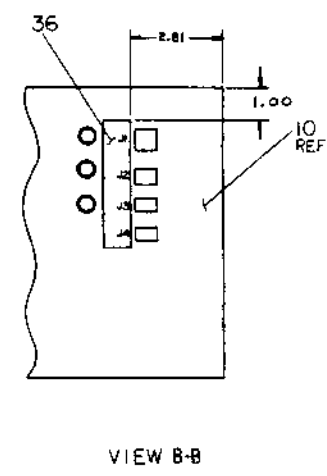
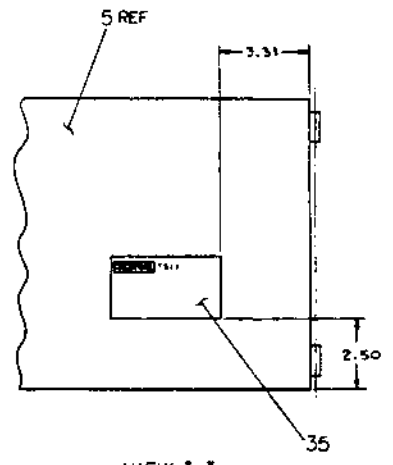
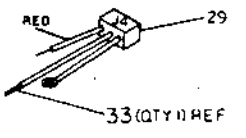
LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
30	30		23611F1-00	*** THIS ITEM IS NOT USED ***	-	
31	31		23419F1-00	*** THIS ITEM IS NOT USED ***	-	
32	32		23420F1-00	*** THIS ITEM IS NOT USED ***	-	
33	33		23421F1-00	*** THIS ITEM IS NOT USED ***	-	
34	34		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	17.1V
7016288-01	24.2V

NOTES:
 1. ADHERE ITEM 17 TO CHASSIS WHERE SHOWN
 2. SLIP 1 INCH OF (ITEM 28) TUBING, SHRINK ISOL (ANY COLOR) OVER CONNECTING WIRES, CONNECTING 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

CAUTION OFF SHEET PARTS LIST REFER TO K-PL-7016288-0-08P

POWER SUPPLY ASSEMBLY	
7016288-00	17.1V
7016288-01	24.2V

REV.	DATE	BY	CHKD.	DESCRIPTION
1				

WIRING TYPICAL FOR BOTH D-1A-7016288-00 AND D-1A-7016288-01

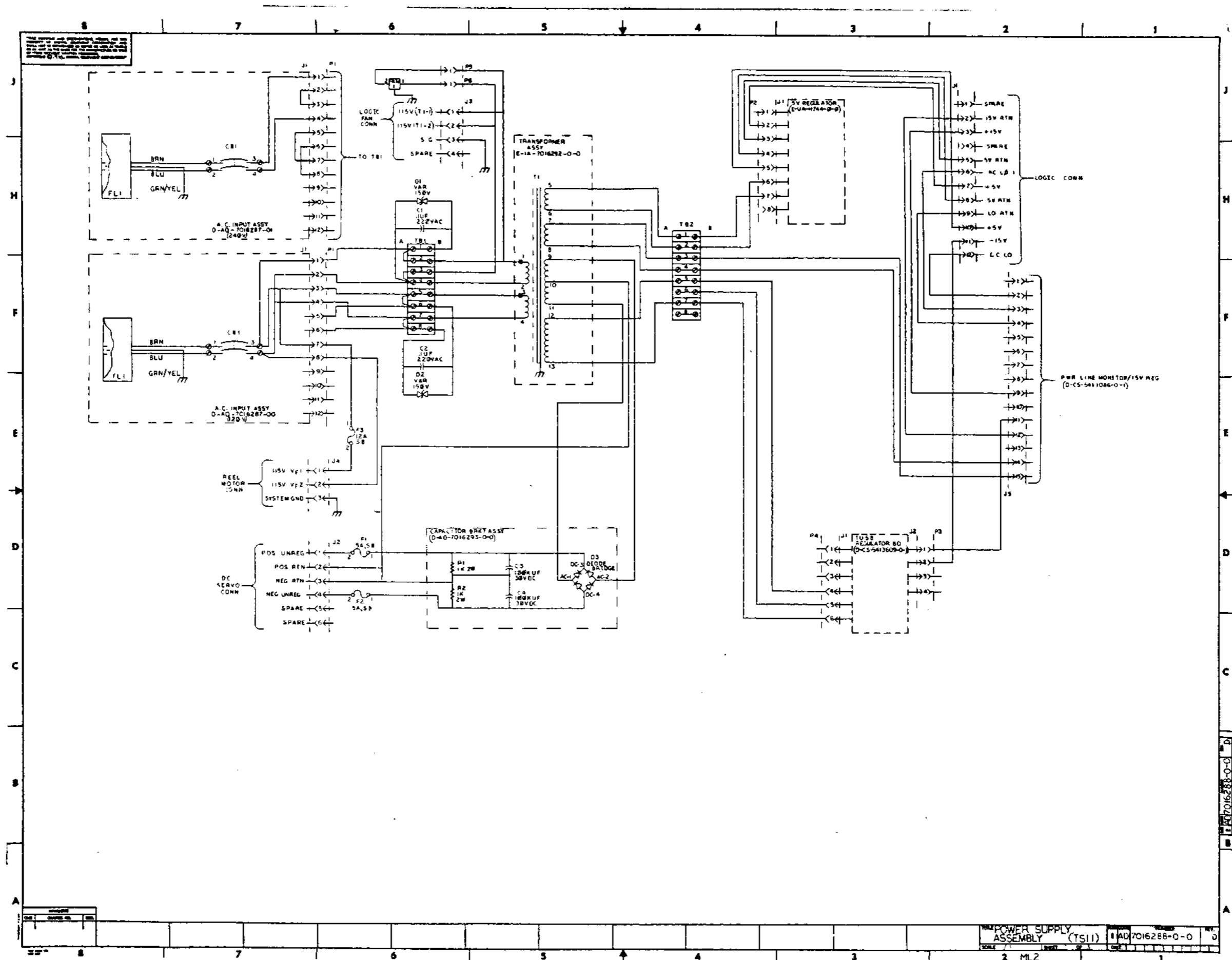
WIRE TABLE 7016288-00										
ITEM NO	DESCRIPTION	FROM			TO			REMARKS		
		AWG	COLOR	POINT CONNECTION WITH	POINT CONNECTION WITH	POINT CONNECTION WITH	POINT CONNECTION WITH			
8	14	BLACK	50	P2-7	43	TB2-18				
8	14	BLACK	49	P2-6	44	TB2-28				
8	14	GRN/YEL	51	FAN-GND	42	GND-3	26 38			
8	18	RED	P6	FAN-1	64	TB1-33				
8	TWP	WHITE	P9	FAN-2	63	TB1-28				
8	18	RED	60	J3-2	64	TB1-38				
8	TWP	WHITE	59	J3-1	63	TB1-28				
2	18	GRN/YEL	61	J3-3	62	GND-2	26			
2	18	BLACK	1	P4-5	43	TB2-78				
2	18	BLACK	2	P4-5	45	TB2-68				
2	18	BLACK	3	P3-4	46	TB2-58				
2	18	BLACK	4	P3-5	58	TB2-18				
2	18	BLACK	7	J5-4	47	TB2-48				
2	18	BLACK	8	J5-5	36	F1-2				
8	14	BLUE	33	C4-1	37	O3-4				
8	14	BLUE	34	C4-2	31	F2-1	28			
8	14	BLACK	25	J2-3	35	C4-2				
8	14	ORANGE	28	O2-3	41	C2-1				
8	14	BLACK	26	J2-2	39	C4-1				
8	14	ORANGE	40	C3-1	32	F1-1	28			
2	14	BLUE	28	J2-4	30	F2-2	28			
2	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			
17				TB1-6A		TB1-5A	30			
19				TB1-8A		TB1-7A	30			
15				TB1-1A		O1				
15				TB1-4A		O1				
11				TB1-2B		O1				
10				TB1-2B		O1				
11				TB1-8B		O2				
10				TB1-5B		O2				
10				TB1-6A		O2				
10				TB1-7A		O2				
20	16	BROWN		F3-1		F1-7	33 628	LINE FILTER ASSEMBLY C1A-7016294		
20	16	BLUE		J4-2		F1-8	33			
21	14	RED		J4-1		F1-2	28			
21	14	GRN/YEL		J4-3		GND-2	26 38			
6	14	BLACK		T1-1		TB1-29				
6	14	BLACK		T1-2		TB1-48				
6	14	BLACK		T1-3		TB1-58				
6	14	BLACK		T1-4		TB1-78				
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		O3-2				
6	14	BLACK		T1-10		J2-3				
6	14	BLACK		T1-11		O3-1				
6	14	BLACK		T1-12		TB2-5A				
6	14	BLACK		T1-13		TB2-7A				
1	14	BLACK		J1-1		CB1-3		A.C. INPUT ASSEMBLY D-1A-7016287-20 120V WIRING (ONLY)		
1	14	BLACK		J1-2		CB1-4				
1	14	BLACK		J1-3		CB1-5				
1	14	BLACK		J1-4		CB1-4				
1	14	BLACK		J1-7		CB1-3				
1	14	BLACK		J1-8		CB1-4				
1	14	BLACK		J1-2		CB1-3				
1	14	BROWN		FL1-1		CB1-1				
1	14	BLUE		FL1-2		CB1-2				
1	14	GRN/YEL		FL1-GND		GND 1				

WIRING TYPICAL FOR BOTH D-1A-7016288-00 AND D-1A-7016288-01

WIRING FOR 7016288-00 (ONLY)

WIRE TABLE 7016288-01										
ITEM NO	DESCRIPTION	FROM			TO			REMARKS		
		AWG	COLOR	POINT CONNECTION WITH	POINT CONNECTION WITH	POINT CONNECTION WITH	POINT CONNECTION WITH			
2	14	BLACK		CB1-7		J1-1		A.C. INPUT ASSEMBLY D-1A-7016287-01 240V WIRING (ONLY)		
2	14	BLACK		CB1-4		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		CB1-1				
2	14	BLUE		FL1-2		CB1-2				
2	14	GRN/YEL		FL1-GND		GND 1				

WIRING FOR 7016288-01 (ONLY)



NOTE: THE POWER SUPPLY ASSEMBLY IS A PART OF THE POWER SUPPLY SYSTEM. IT IS NOT TO BE USED AS A STAND-ALONE UNIT. THE POWER SUPPLY ASSEMBLY IS TO BE USED IN CONJUNCTION WITH THE POWER SUPPLY SYSTEM.

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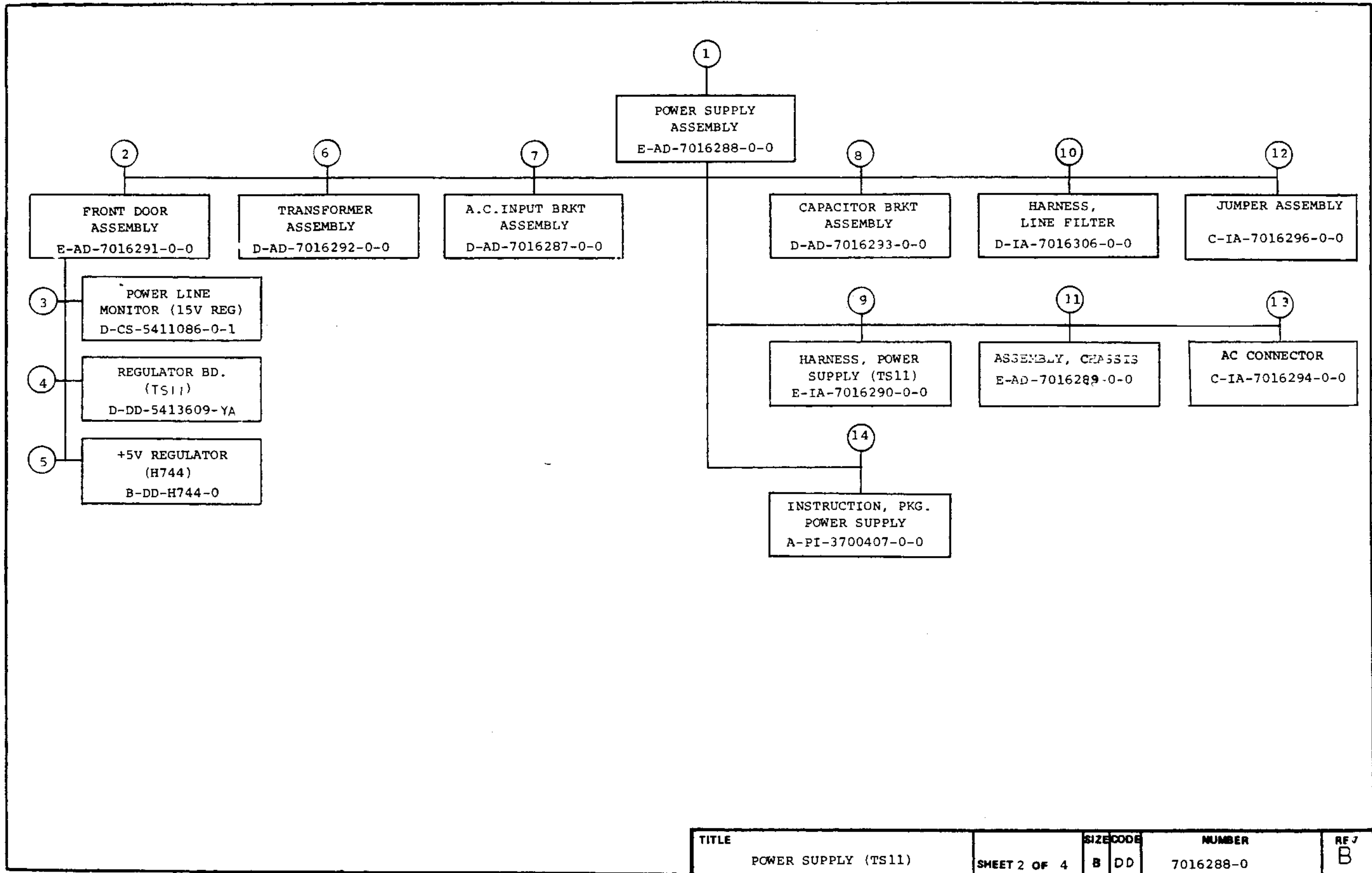
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UNIT VARIATIONS	
VAR	TITLE
7016288-00	POWER SUPPLY 12ØV
7016288-01	POWER SUPPLY 24ØV

REVISIONS	CHK	CHANGE NO.	REV.
			7016288-MLJ
		7016288-ML4	B

USED ON OPTION/MODEL	TS11	DRN.	W. J. MAHER	DATE	7 SEPT 78	TITLE	digital				
		CHK'D.	<i>[Signature]</i>	DATE	7 NOV 78						
		PROJ. ENG.	<i>[Signature]</i>	DATE	20 NOV 78						
		PROD.	<i>[Signature]</i>	DATE	11-10-78						
SHEET	1	OF	4	SIZE	B	CODE	DD	NUMBER	7016288-0	REV	B
					DIST.						



TITLE	SHEET 2 OF 4	SIZE CODE	NUMBER	REF
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-7016288-0-0	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

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE	FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
11	E-AD-701628-0-0	ASSEMBLE, CHASSIS	M				
	E-IA-7422049-0-0	CHASSIS	M				
	D-IA-7422050-0-0	PLATE, BOTTOM	M				
12	C-IA-7016296-0-0	JUMPER ASSEMBLY	E/M				
	B-PL-7016296-0-0	JUMPER ASSEMBLY	E/M				
13	C-IA-7016294-0-0	AC CONNECTOR ASSY	E/M				
	B-PL-7016294-0-0	AC CONNECTOR ASSY	E/M				
14	A-PI-3700407-0-0	INSTRUCTION, PKG. POWER SUPPLY	E/M				

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



TITLE POWER SUPPLY (TS11)

SHEET 4 OF 4

SIZE CODE B DD

NUMBER 7016288-0

REV B

ML2

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION
1-20	7016287-0-0	7016287-00	A.C. INPUT ASSY 240V	1
1-21	7016287-0-0	7016287-01	A.C. INPUT ASSY 240V	1
1-22	7016287-0-0	7016287-02	A.C. INPUT ASSY 240V	1
1-23	7016287-0-0	7016287-03	A.C. INPUT ASSY 240V	1
1-24	7016287-0-0	7016287-04	A.C. INPUT ASSY 240V	1
1-25	7016287-0-0	7016287-05	A.C. INPUT ASSY 240V	1
1-26	7016287-0-0	7016287-06	A.C. INPUT ASSY 240V	1
1-27	7016287-0-0	7016287-07	A.C. INPUT ASSY 240V	1
1-28	7016287-0-0	7016287-08	A.C. INPUT ASSY 240V	1
1-29	7016287-0-0	7016287-09	A.C. INPUT ASSY 240V	1
1-30	7016287-0-0	7016287-10	A.C. INPUT ASSY 240V	1
1-31	7016287-0-0	7016287-11	A.C. INPUT ASSY 240V	1
1-32	7016287-0-0	7016287-12	A.C. INPUT ASSY 240V	1
1-33	7016287-0-0	7016287-13	A.C. INPUT ASSY 240V	1
1-34	7016287-0-0	7016287-14	A.C. INPUT ASSY 240V	1
1-35	7016287-0-0	7016287-15	A.C. INPUT ASSY 240V	1
1-36	7016287-0-0	7016287-16	A.C. INPUT ASSY 240V	1
1-37	7016287-0-0	7016287-17	A.C. INPUT ASSY 240V	1
1-38	7016287-0-0	7016287-18	A.C. INPUT ASSY 240V	1
1-39	7016287-0-0	7016287-19	A.C. INPUT ASSY 240V	1
1-40	7016287-0-0	7016287-20	A.C. INPUT ASSY 240V	1
1-41	7016287-0-0	7016287-21	A.C. INPUT ASSY 240V	1
1-42	7016287-0-0	7016287-22	A.C. INPUT ASSY 240V	1
1-43	7016287-0-0	7016287-23	A.C. INPUT ASSY 240V	1
1-44	7016287-0-0	7016287-24	A.C. INPUT ASSY 240V	1
1-45	7016287-0-0	7016287-25	A.C. INPUT ASSY 240V	1
1-46	7016287-0-0	7016287-26	A.C. INPUT ASSY 240V	1
1-47	7016287-0-0	7016287-27	A.C. INPUT ASSY 240V	1
1-48	7016287-0-0	7016287-28	A.C. INPUT ASSY 240V	1
1-49	7016287-0-0	7016287-29	A.C. INPUT ASSY 240V	1
1-50	7016287-0-0	7016287-30	A.C. INPUT ASSY 240V	1
1-51	7016287-0-0	7016287-31	A.C. INPUT ASSY 240V	1
1-52	7016287-0-0	7016287-32	A.C. INPUT ASSY 240V	1
1-53	7016287-0-0	7016287-33	A.C. INPUT ASSY 240V	1
1-54	7016287-0-0	7016287-34	A.C. INPUT ASSY 240V	1
1-55	7016287-0-0	7016287-35	A.C. INPUT ASSY 240V	1
1-56	7016287-0-0	7016287-36	A.C. INPUT ASSY 240V	1
1-57	7016287-0-0	7016287-37	A.C. INPUT ASSY 240V	1
1-58	7016287-0-0	7016287-38	A.C. INPUT ASSY 240V	1
1-59	7016287-0-0	7016287-39	A.C. INPUT ASSY 240V	1
1-60	7016287-0-0	7016287-40	A.C. INPUT ASSY 240V	1
1-61	7016287-0-0	7016287-41	A.C. INPUT ASSY 240V	1
1-62	7016287-0-0	7016287-42	A.C. INPUT ASSY 240V	1
1-63	7016287-0-0	7016287-43	A.C. INPUT ASSY 240V	1
1-64	7016287-0-0	7016287-44	A.C. INPUT ASSY 240V	1
1-65	7016287-0-0	7016287-45	A.C. INPUT ASSY 240V	1
1-66	7016287-0-0	7016287-46	A.C. INPUT ASSY 240V	1
1-67	7016287-0-0	7016287-47	A.C. INPUT ASSY 240V	1
1-68	7016287-0-0	7016287-48	A.C. INPUT ASSY 240V	1
1-69	7016287-0-0	7016287-49	A.C. INPUT ASSY 240V	1
1-70	7016287-0-0	7016287-50	A.C. INPUT ASSY 240V	1
1-71	7016287-0-0	7016287-51	A.C. INPUT ASSY 240V	1
1-72	7016287-0-0	7016287-52	A.C. INPUT ASSY 240V	1
1-73	7016287-0-0	7016287-53	A.C. INPUT ASSY 240V	1
1-74	7016287-0-0	7016287-54	A.C. INPUT ASSY 240V	1
1-75	7016287-0-0	7016287-55	A.C. INPUT ASSY 240V	1
1-76	7016287-0-0	7016287-56	A.C. INPUT ASSY 240V	1
1-77	7016287-0-0	7016287-57	A.C. INPUT ASSY 240V	1
1-78	7016287-0-0	7016287-58	A.C. INPUT ASSY 240V	1
1-79	7016287-0-0	7016287-59	A.C. INPUT ASSY 240V	1
1-80	7016287-0-0	7016287-60	A.C. INPUT ASSY 240V	1
1-81	7016287-0-0	7016287-61	A.C. INPUT ASSY 240V	1
1-82	7016287-0-0	7016287-62	A.C. INPUT ASSY 240V	1
1-83	7016287-0-0	7016287-63	A.C. INPUT ASSY 240V	1
1-84	7016287-0-0	7016287-64	A.C. INPUT ASSY 240V	1
1-85	7016287-0-0	7016287-65	A.C. INPUT ASSY 240V	1
1-86	7016287-0-0	7016287-66	A.C. INPUT ASSY 240V	1
1-87	7016287-0-0	7016287-67	A.C. INPUT ASSY 240V	1
1-88	7016287-0-0	7016287-68	A.C. INPUT ASSY 240V	1
1-89	7016287-0-0	7016287-69	A.C. INPUT ASSY 240V	1
1-90	7016287-0-0	7016287-70	A.C. INPUT ASSY 240V	1
1-91	7016287-0-0	7016287-71	A.C. INPUT ASSY 240V	1
1-92	7016287-0-0	7016287-72	A.C. INPUT ASSY 240V	1
1-93	7016287-0-0	7016287-73	A.C. INPUT ASSY 240V	1
1-94	7016287-0-0	7016287-74	A.C. INPUT ASSY 240V	1
1-95	7016287-0-0	7016287-75	A.C. INPUT ASSY 240V	1
1-96	7016287-0-0	7016287-76	A.C. INPUT ASSY 240V	1
1-97	7016287-0-0	7016287-77	A.C. INPUT ASSY 240V	1
1-98	7016287-0-0	7016287-78	A.C. INPUT ASSY 240V	1
1-99	7016287-0-0	7016287-79	A.C. INPUT ASSY 240V	1
1-100	7016287-0-0	7016287-80	A.C. INPUT ASSY 240V	1

REVISION HISTORY

ENG	ECO NUMBER	REV	SECTION	SECTION A OF A	SECTION. VARIATION INDEX
J.B.	7016293-MLOO4	D	[A] 00, 01		

BASIC PART NO: 7016288

DRN: M.J. MAHER

CHK'D: D. BRIGHAM

DES. ENG.: M. QUADRI

RESP. ENG.: M. QUADRI

MFG. ENG.: P. BARTON

ASSEMBLY NUMBER: E-40-7016289-0-0

DATE: 28-AUG-78

DATE: 09-NOV-78

DATE: 10-NOV-78

DATE: 10-NOV-78

DATE: 10-NOV-78

DATE: 10 NOV 78

POWER SUPPLY ASSEMBLY

DI G I T A L

PARTS LIST

DOCUMENT NUMBER

7016288-0-0BP

FILE NAME: Z3068D.PLS

EDIT # 20

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AUTOMATED BY PRTLST.3P(44)

PARTS LIST

SHEET A2 OF A2

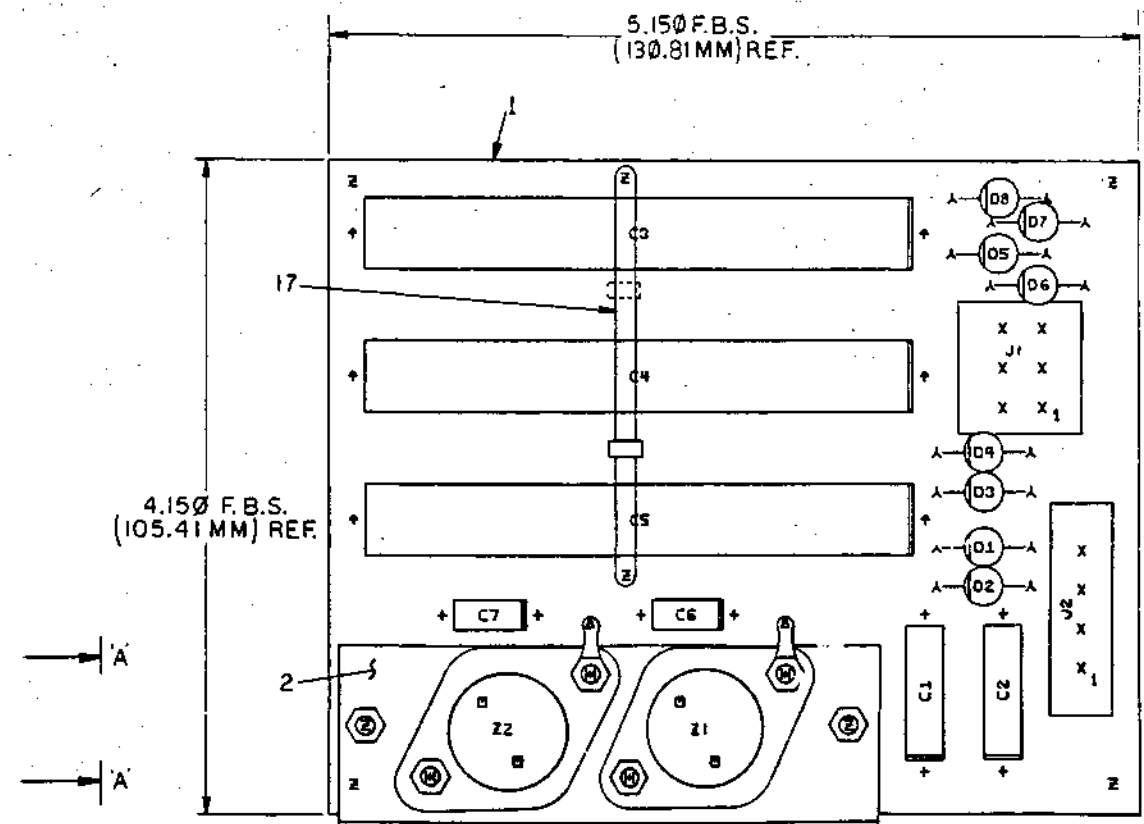
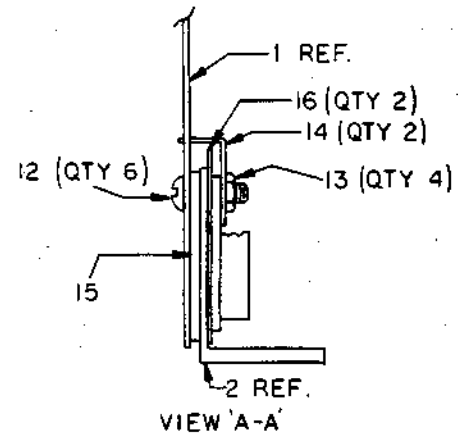
LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION	
					00	01
31		A-PS-3612680-0-0	3612680-00	DECAL, GROUND SIGN PER 3E6 *	2	2
32			9007880-00	TIE CABLE BUNDL DIA 0-1.14"=101	2	2
33		A-PS-1212170-0-0	1212170-00	MATE-N-LOK SKT UNIV 20-14AWG REE	2	2
34			9008290-01	FUSE SLO BLO 12 A 250V CER.	1	1
35		A-SP-3616126-0-0	3616126-00	LABEL, VOLTAGE & FREQUENCY CONFIG	1	1
36		A-SP-3616128-0-0	3616128-00	LABEL, TS11 PWR SUPPLY FUSE RATIN	1	1
37		A-P1-3700407-0-0	3700407-00	INSTR PKG POWER SUPPLY 7016288-0	1	1
38			9007651-00	WASHER, LOCK, EXTERNAL TOOTH #10	1	1
39		A-PS-1311996-0-0	1311996-00	VARISTOR 150VAC VOLT TRANS SUP	2	2
40		A-PS-1012210-0-0	1012210-00	1 MFD 220V 10% MET. MYLR	2	2
41			9006762-00	TERM LUG #6STUD LOCKING 30	4	4
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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0-0-6095149 2 1

COMPONENT SIDE VIEW



NOTES:

STEP E	+ Y ROLS	STEP	TIMES
REPERT	+ X ROLS	STEP	TIMES

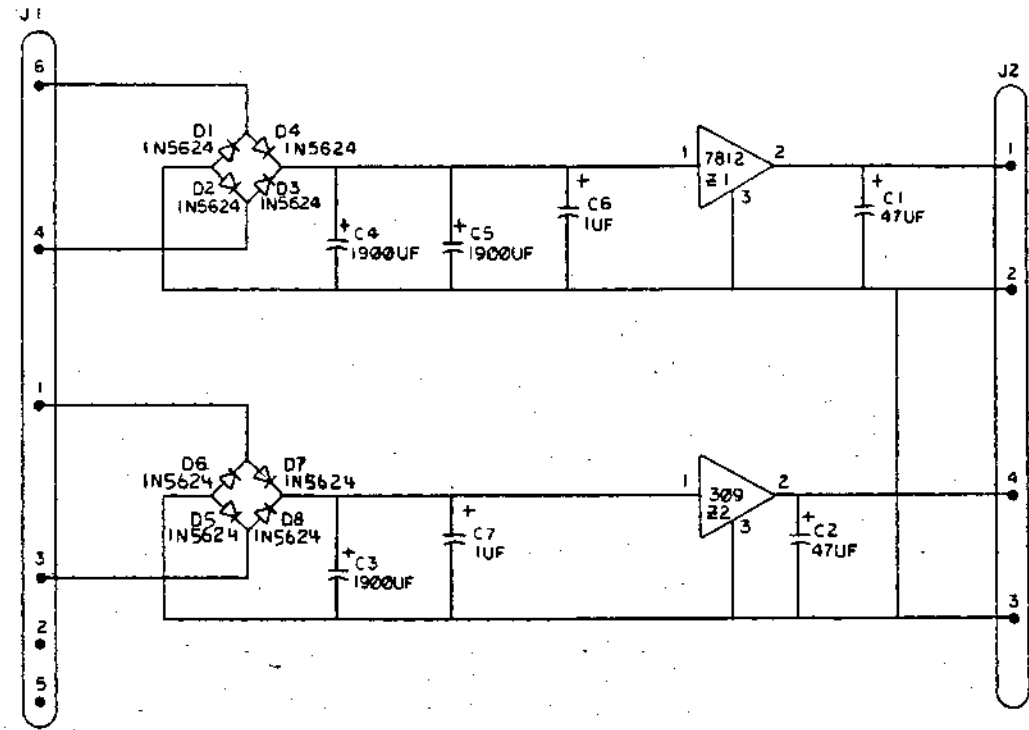
CHANGE NO	REV	DATE	BY	CHK'D
1	B			
2	M1001			
3	12/20/09			
4				
5				
6				
7				
8				
9				
10				

ETCH REV. C-P1

SIGNATURES	DATE	digital
DRN. <i>[Signature]</i>	12-20-09	
CHK'D. <i>[Signature]</i>	1-7-10	
RECH. ENG. <i>[Signature]</i>	2-20-11	TITLE
PROJ. ENG. <i>[Signature]</i>	2-20-11	TU 58 REGULATOR BD
PROD. <i>[Signature]</i>	2-20-11	
SCALE 2/1		SIZE CODE
SMT. 1 OF 1		NUMBER
NEXT HIGHER REV. B-DD-5413609-0		REV

ML2

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REV.	CHG.	BY	DATE
1	5413609-ML1	D	10/1/78
2	5413609-ML1	D	10/1/78
3	5413609-ML1	D	10/1/78
4	5413609-ML1	D	10/1/78
5	5413609-ML1	D	10/1/78

DRN. Use Common 8/25/78	FIRST USED ON	Digital
CHK'D. [Signature]	TITLE	TU58 REGULATOR BOARD
ENGR. Larry Brown 8/11/78	SIZE	D
PROJ. ENGR. [Signature]	NUMBER	CS 5413609-0-1-C
PROD. [Signature]	REV.	C
NEXT HIGHER ASSY.	SCALE	1 OF 1
B-DD-5413609-0	DIST.	ML2 1

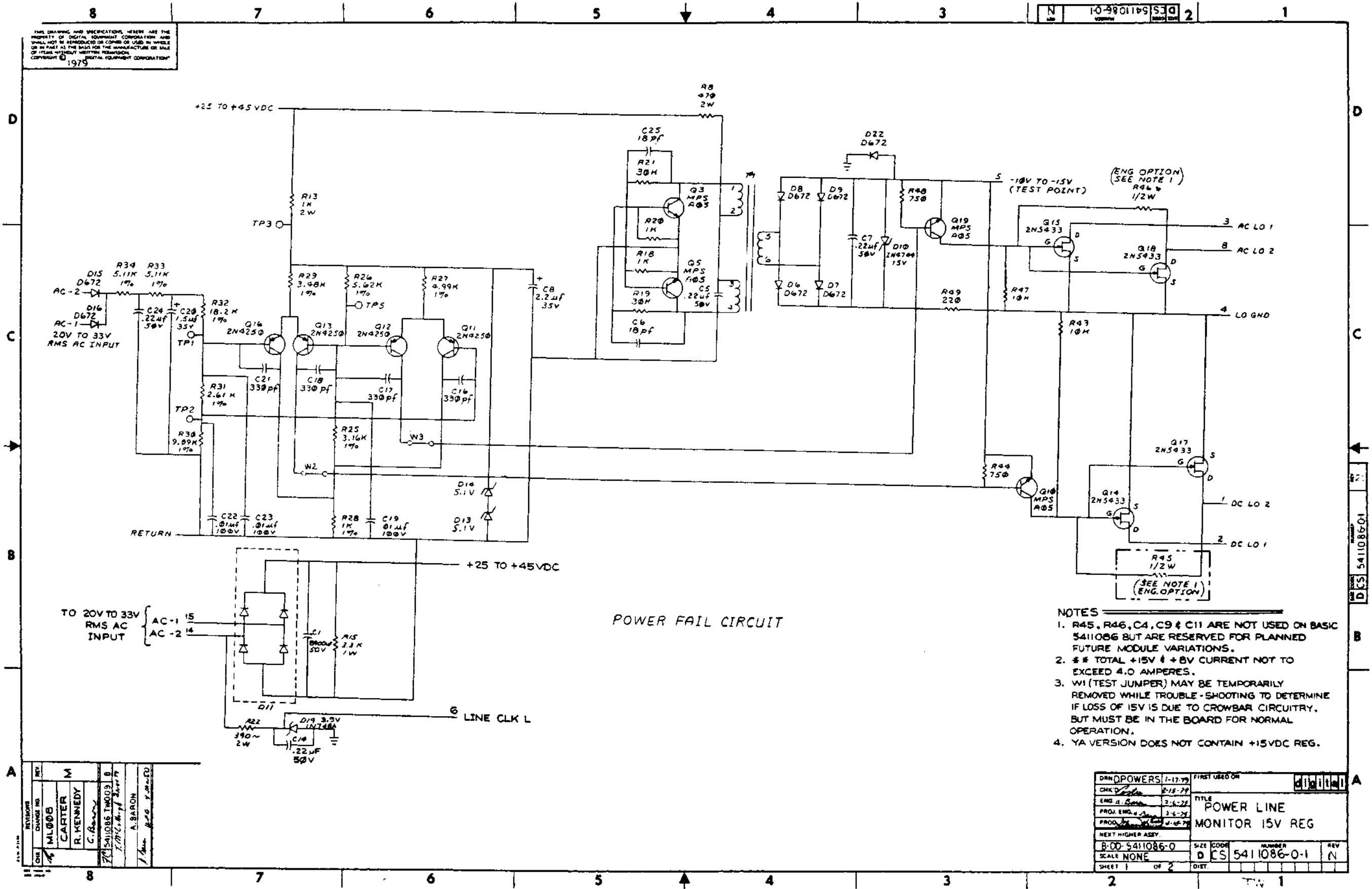
LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
					00	
1	1	D-MD-5013608-0-0	5013608-00	DRILL & ETCH BD	1	
2	2		1215894-00	HEAT SINK,2-3,ALUM	1	
3	3		1912048-04	DEC 7812 VOLT REG,FIX +12V	1	Z1
4	4		1910460-00	DEC 309 VOLT REG,FIX +15V	1	Z2
5	5		1110420-00	1N 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		9007890-00	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			DIGITAL		
ENG	ECO NUMBER	REV	SECTION A OF A			CHK'D: LARRY DOIRON			DATE: 10-JUN-80			TITLE PARTS LIST		
---	INITIAL	A	SECTION,VARIATION INDEX			DES.ENG: LARRY DOIRON <td colspan="3">DATE: 10-JUN-80 <td colspan="3">TU58 REGULATOR BD</td> </td>			DATE: 10-JUN-80 <td colspan="3">TU58 REGULATOR BD</td>			TU58 REGULATOR BD		
AB	5413609-ML001	B	[A]	00	[B]	[C]	[D]	[E]	[F]	[G]	[H]	[I]	[J]	[K]
			[L]	[M]	[N]	MFG.ENG.: PETER BARTON <td colspan="3">DATE: 10-JUN-80 <td colspan="3">K FL 5413609-0-DBP B</td> </td>			DATE: 10-JUN-80 <td colspan="3">K FL 5413609-0-DBP B</td>			K FL 5413609-0-DBP B		
			ASSEMBLY NUMBER: <td colspan="3">TOP DOCUMENT NUMBER: <td colspan="3">FILE NAME: <td colspan="3">EDIT #: </td></td></td>			TOP DOCUMENT NUMBER: <td colspan="3">FILE NAME: <td colspan="3">EDIT #: </td></td>			FILE NAME: <td colspan="3">EDIT #: </td>			EDIT #:		
			D-UA-5413609-0-0 <td colspan="3">#B-DD-5413609-0 <td colspan="3">Z1483B.PLS <td colspan="3">4 </td></td></td>			#B-DD-5413609-0 <td colspan="3">Z1483B.PLS <td colspan="3">4 </td></td>			Z1483B.PLS <td colspan="3">4 </td>			4		

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10-8901145 SCS 2



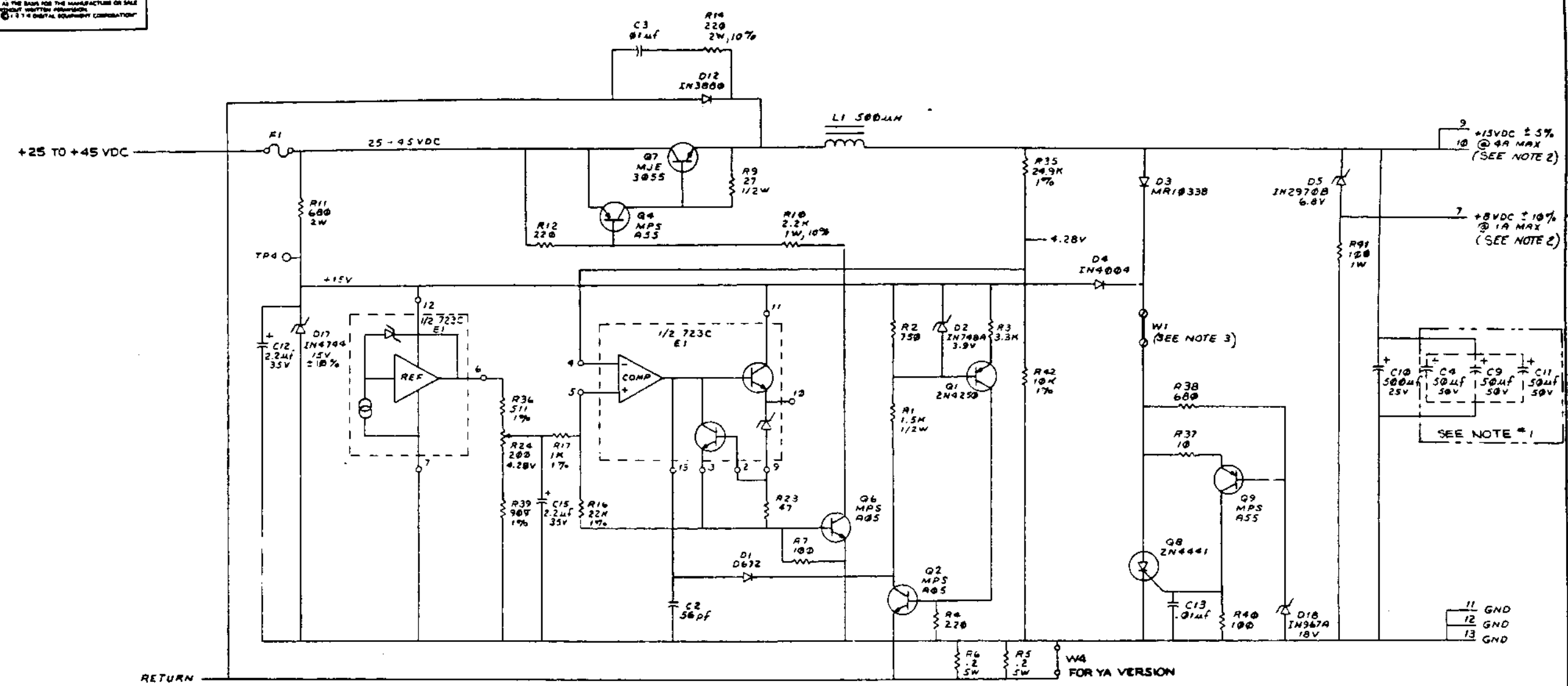
POWER FAIL CIRCUIT

- 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	DATE	BY	CHKD	APP'D
M				
M				
R. KENNEDY				
C. BERRY				
A. BARON				

DRN POWERS 1-17-75	FIRST USED ON	digital
CHK'D 2-18-77	TITLE	POWER LINE
ENG'D 2-6-78	MONITOR 15V REG	
PROJ. ENG. 3-6-78		
PROD. 4-6-78		
NEXT HIGHER ASSY.	SIZE CODE	NUMBER
B-00 5411086-0	D CS	5411086-0-1
SCALE NONE	DIST.	REV
SHEET 1 OF 2		N

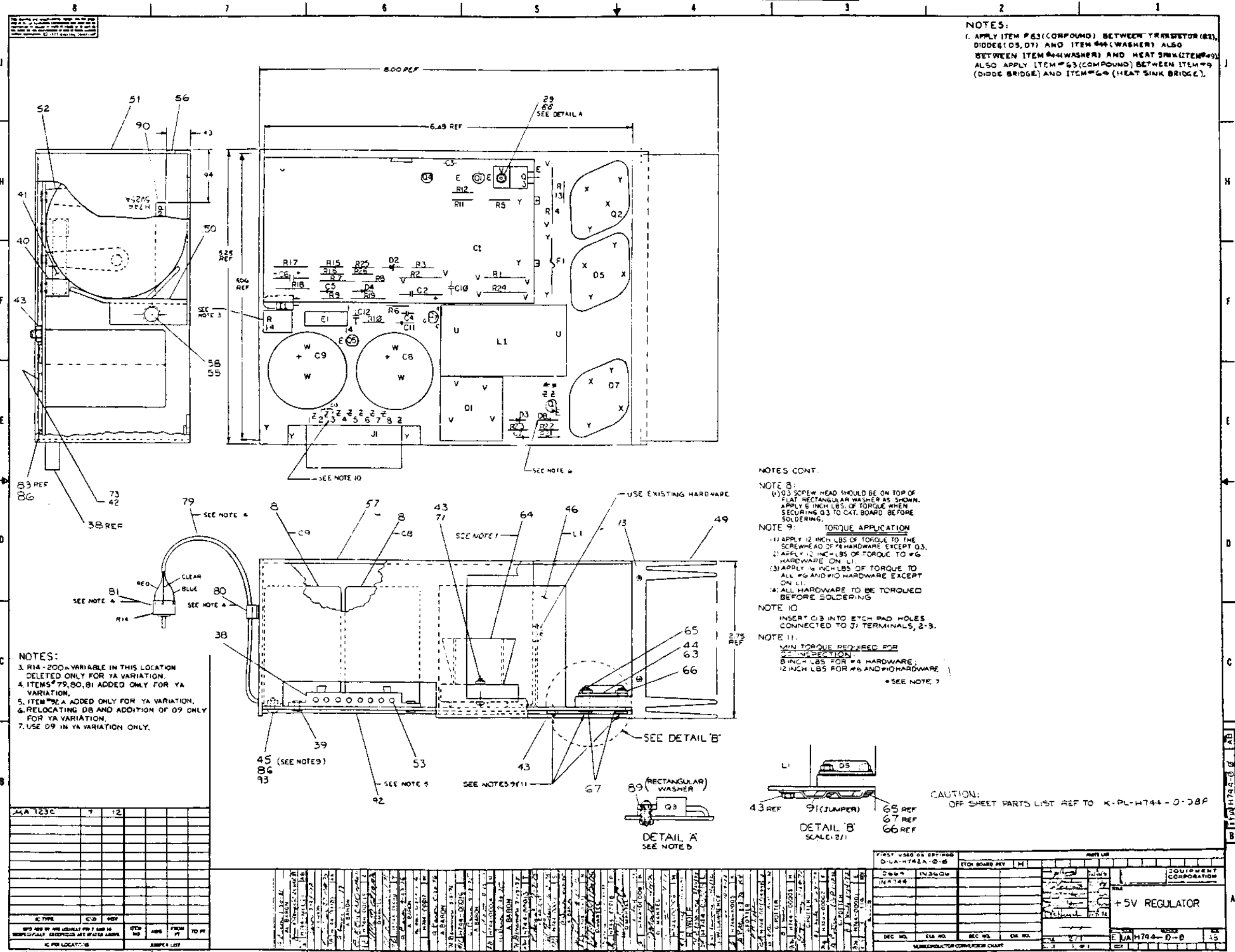
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15V REGULATOR
(SEE NOTE #4)

REVISIONS		
CHK	CHANGE NO	REV

D/CS5411086-0-1 N

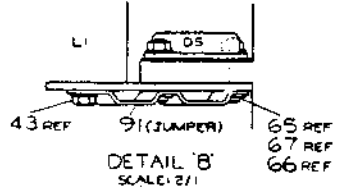
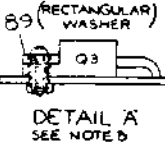


NOTES:
 1. APPLY ITEM #63 (COMPOUND) BETWEEN TRANSFORMER (#2), DIODES (D5, D7) AND ITEM #44 (WASHER) ALSO BETWEEN ITEM #44 (WASHER) AND HEAT SINK (ITEM #49). ALSO APPLY ITEM #63 (COMPOUND) BETWEEN ITEM #9 (DIODE BRIDGE) AND ITEM #64 (HEAT SINK BRIDGE).

NOTES CONT.
NOTE 8:
 (1) 0.3 SCREW HEAD SHOULD BE ON TOP OF FLAT RECTANGULAR WASHER AS SHOWN. APPLY 5 INCH LBS. OF TORQUE WHEN SECURING Q3 TO CAB. BOARD BEFORE SOLDERING.
NOTE 9: TORQUE APPLICATION
 (1) APPLY 12 INCH LBS OF TORQUE TO THE SCREWHEAD OF #8 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
 SECTION
 8 INCH LBS FOR #8 HARDWARE,
 12 INCH LBS FOR #6 AND #10 HARDWARE
 *SEE NOTE 7

NOTES:
 3. R14 - 200Ω 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.

CAUTION:
 OFF SHEET PARTS LIST REF TO K-PL-H744-0-D8P



IC TYPE	QTY	REV	DATE	BY	CHKD	APP'D
74123C	7	12				

REV	DESCRIPTION	DATE	BY	CHKD	APP'D
1	INITIAL REV				
2					
3					
4					
5					
6					
7					
8					

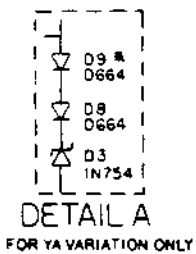
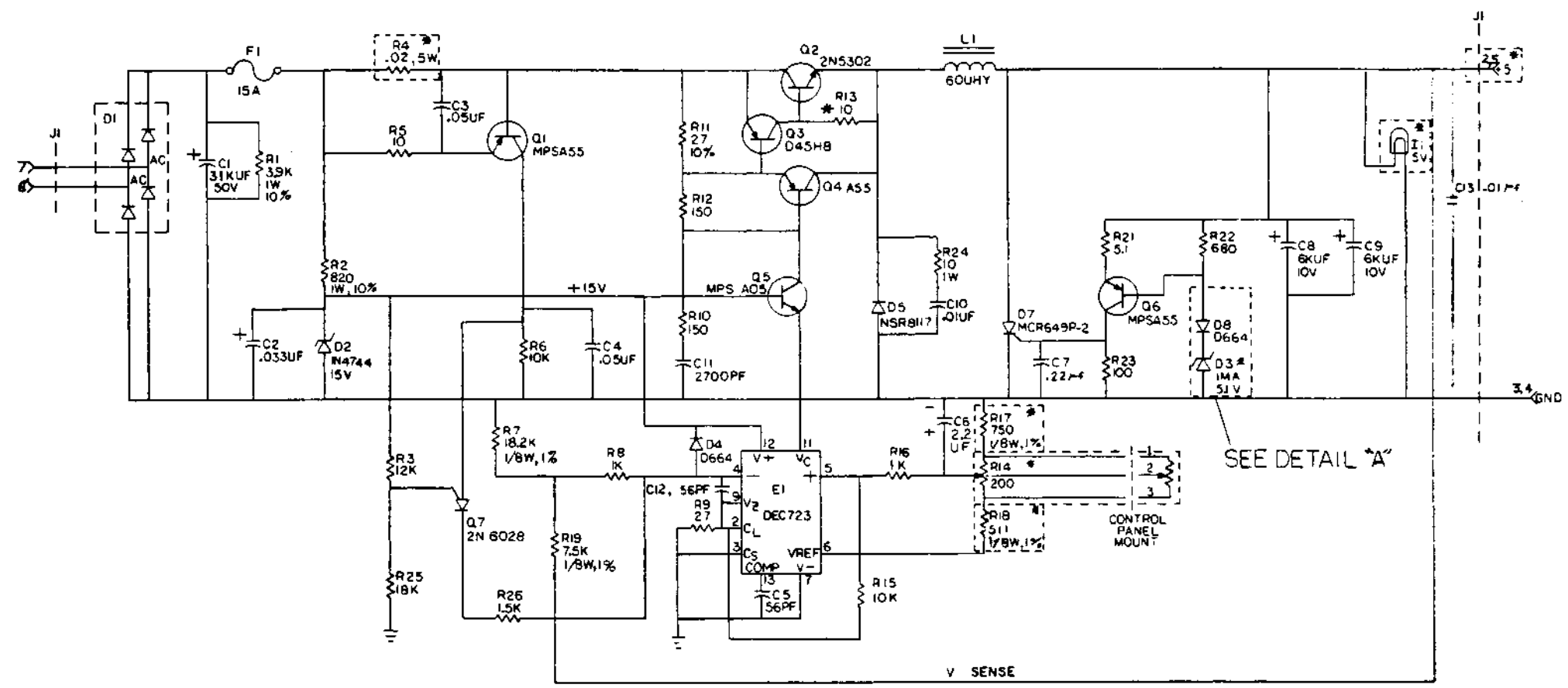
FIRST USED ON PARTS				PART LIST			
QTY	REV	DATE	BY	QTY	REV	DATE	BY
1	1			1	1		

REV	DESCRIPTION	DATE	BY	CHKD	APP'D
1	INITIAL REV				

+5V REGULATOR

Q-PL-H744-0-D

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*FUSIBLE RESISTOR

- FOR YA VARIATION COMPONENT VALUES ARE AS FOLLOWS:-
- R4 - .06 5W
 - R14 - 1K 10 TURN
 - R17 - 300 1/8W 1%
 - R18 - 150 1/4W 5%
 - D3 - 1N754
 - I1 - 15V
 - J1-2,5 - +20-80V
- # D9 - D664 ADDED FOR YA VARIATION ONLY

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 5%

G. BARON	A. BARON	H744-0001	Z
H744-0002	H744-0003	H744-0004	H744-0005
H744-0006	H744-0007	H744-0008	H744-0009
H744-0010	H744-0011	H744-0012	H744-0013
H744-0014	H744-0015	H744-0016	H744-0017
H744-0018	H744-0019	H744-0020	H744-0021
H744-0022	H744-0023	H744-0024	H744-0025
H744-0026	H744-0027	H744-0028	H744-0029
H744-0030	H744-0031	H744-0032	H744-0033
H744-0034	H744-0035	H744-0036	H744-0037
H744-0038	H744-0039	H744-0040	H744-0041
H744-0042	H744-0043	H744-0044	H744-0045
H744-0046	H744-0047	H744-0048	H744-0049
H744-0050	H744-0051	H744-0052	H744-0053
H744-0054	H744-0055	H744-0056	H744-0057
H744-0058	H744-0059	H744-0060	H744-0061
H744-0062	H744-0063	H744-0064	H744-0065
H744-0066	H744-0067	H744-0068	H744-0069
H744-0070	H744-0071	H744-0072	H744-0073
H744-0074	H744-0075	H744-0076	H744-0077
H744-0078	H744-0079	H744-0080	H744-0081
H744-0082	H744-0083	H744-0084	H744-0085
H744-0086	H744-0087	H744-0088	H744-0089
H744-0090	H744-0091	H744-0092	H744-0093
H744-0094	H744-0095	H744-0096	H744-0097
H744-0098	H744-0099	H744-0100	H744-0101

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
	ETCH BOARD REV	F H		
	IN964A	SAME	MPSA55	
	D664	IN3606	2N5302	
	MCR649P-2		D45H8	
	1N751A	SAME	MPSA05	
	1N4744	SAME		
	NSR8117			
	2N6028			
DEC NO.	EIA NO.	DEC NO.	EIA NO.	
SEMICONDUCTOR CONVERSION CHART				
DRG	CHANGE NO	REV		
DRG: [Signature] DATE: 8-2-71 CHG: [Signature] DATE: 10-3-71 ENGR: [Signature] DATE: 11/22/71 PROJ: [Signature] DATE: 11/22/71 NEXT HIGHER ASSY:				
TITLE: +5V REGULATOR			EQUIPMENT CORPORATION	
DCS H744-0-1		Z		

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	

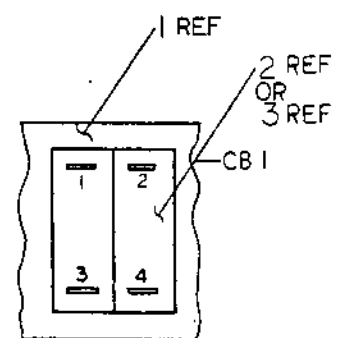
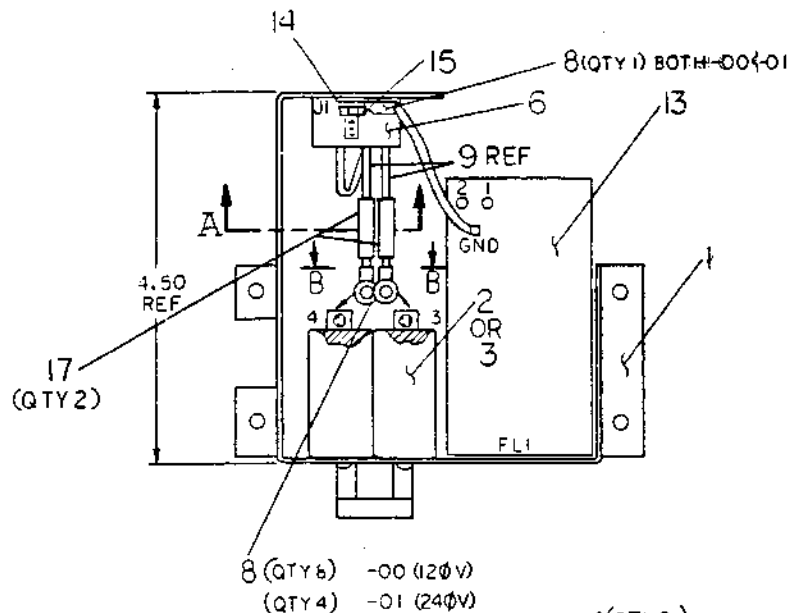
WIRE TABLE 7016287-01

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	

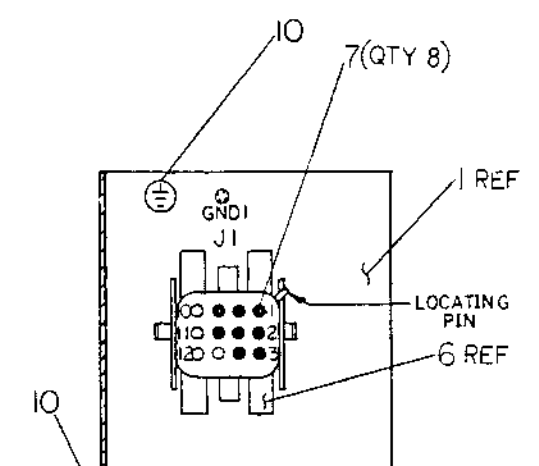
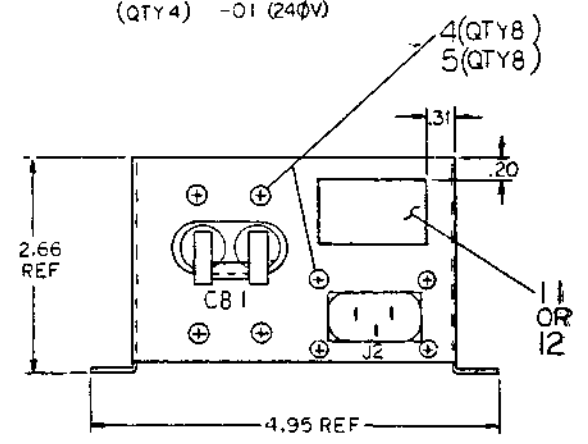
LEGEND

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

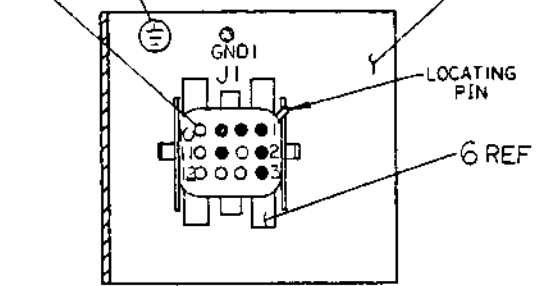
NOTES:



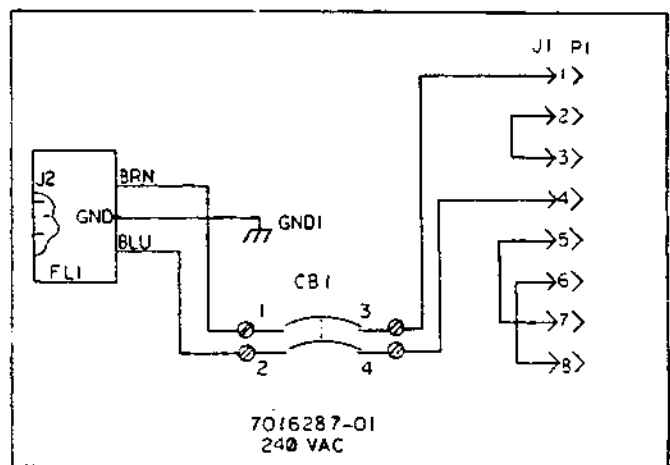
VIEW B-B



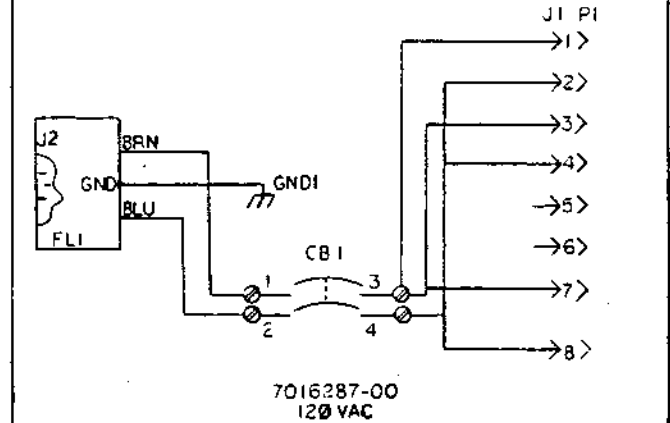
SECTION A-A
7016287-01 ONLY
SCALE: NONE



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 (23784)

REVISIONS

REV	DATE	DESCRIPTION
1	10/1/78	INITIAL DESIGN
2	10/15/78	REVISED TO ADD DIMENSIONS
3	10/25/78	REVISED TO ADD PARTS LIST
4	11/5/78	REVISED TO ADD WIRE TABLES
5	11/15/78	REVISED TO ADD VIEW B-B
6	11/25/78	REVISED TO ADD SECTION A-A
7	12/5/78	REVISED TO ADD LEGEND
8	12/15/78	REVISED TO ADD NOTES

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		FIRST USED ON	
ANGLES OF 30°	CLASS OF ACCURACY	DRN: <i>[Signature]</i>	TS11
SURFACE QUALITY	CHECK ONE	CHK'D: <i>[Signature]</i>	TITLE
MEDIUM	<input type="checkbox"/> MEDIUM	ENG: <i>[Signature]</i>	A.C. INPUT ASSEMBLY
PREFERRED	<input type="checkbox"/> PREFERRED	PROJ: <i>[Signature]</i>	SIZE CODE
QUANTITY & VARIATION	MICRONCHES	DO NOT SCALE DIMS	D AD 7016287-0-0
REMOVE BURRS AND BREAK SHARP CORNERS	PREferred	NEXT HIGHER ASSY.	NUMBER
DO NOT SCALE DIMS	1.001 1.002 1.003 1.004 1.005 1.006 1.007 1.008 1.009 1.010		REV
MATERIAL	1.011 1.012 1.013 1.014 1.015 1.016 1.017 1.018 1.019 1.020		C
FINISH	1.021 1.022 1.023 1.024 1.025 1.026 1.027 1.028 1.029 1.030		

AUTOMATED BY FRTLST.3P(44)

PARTS LIST

SHEET A1 OF A1

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION	
					00	01
1000000000	1	D-IA-7422051-0-0	7422051-00	BRKT AC INPUT	1	1
1000000000	1		1212124-03	CKT BKR 10.0 A 240V 2P SERIES TR	0	1
1000000000	1		1212124-05	CKT BKR 20.0 A 240V 2P SERIES TR	1	0
1000000000	1		9006020-01	SCREW PAN PHIL 6-32X 1/4 SS	8	8
1000000000	1		9006633-00	WASHER LOCK INT .2800 X .146ID	8	8
1000000000	1		1212168-03	MATE-N-LOK 12POS UNIV HSG,PIN OR	1	1
1000000000	1		1212169-00	MATE-N-LOK PIN 14-20AWG	1	1
1000000000	1		9007928-00	TERM RING #10STUD CRIMP 14-1	9	9
1000000000	1		9107370-00	WIRE STRND 14AWG IPVC UL1534	A/R	A/R
1000000000	1		3612680-00	DECAL GROUND SIGN PER 3E6 *	1	1
1000000000	1	A-PS-3616127-0-0	3616127-00	LABEL INPUT POWER 120V	1	0
1000000000	1	A-PS-3616127-0-0	3616127-01	LABEL INPUT POWER 240V	0	1
1000000000	1		1216196-01	FILTER LINE 115W 47-47-63H2.8A	1	1
1000000000	1		9007651-00	WASHER LOCK EXTERNAL TOOTH #10	1	1
1000000000	1		9006565-00	NUT KEP 10-32X 3/8 AF	1	1
1000000000	1		9107777-54	WIRE STRND 14AWG IPVC UL3317 GR	A/R	A/R
1000000000	1		1605147-00	56-261-30-38 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.G.	7016287-M1002	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: 237840.PLS	EDIT #: 6
			(E)				
			(F)				

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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION	
					AA	AB
1		0-1A-7016301-0-0	7016301-00	FRAME ASSY	1	1
2		E-AD-7016288-0-0	7016288-00	POWER SUPPLY ASSY 120V	1	1
3		E-AD-7016288-01-0	7016288-01	POWER SUPPLY ASSY 240V	1	1
4		0-1A-7016676-0-0	7016676-00	ELECTRONIC CHASSIS ASSY	1	1
5		0-AD-7013573-0-0	7013573-00	TAPE DRIVE ASSY TS04	1	1
6			1216608-00	SCREW, SET, SKT, 1/4-20X 1-1/4	4	4
7			9006241-09	SCREW, HEX 1/4-20X 1/2	4	4
8			9007797-00	WASHER, LOCK, S.S. 1/4	9	9
9			9008071-00	WASHER, FLAT .500 O.D. X .281 ID	4	4
10		A-PS-1213756-0-0	1213756-16	GROUND STRAP	1	1
11			9007651-00	WASHER, LOCK, EXTERNAL TOOTH #10	1	1
12			9006071-01	SCREW, PAN, PHIL 10-32X 3/8 SS	2	2
13			9006565-00	NUT, KEP 10-32X 3/8 AF	4	4
14		A-PS-1213756-0-0	1213756-12	GROUND STRAP	1	1
15			9006243-09	SCREW, HEX 1/4-20X 3/4	4	4
16			9006633-00	WASHER, LOCK, INT, .28000 X .14610	4	4
17			9006021-01	SCREW, PAN, PHIL 6-32X 5/16 SS	4	4
18			9008228-00	FOAM TAPE, SINGLE COATED VINYL 1	A/R	A/R
19			9009911-00	MOUNT, CABLE TIE, SCREW OR ADHESI	2	2
20			9007032-00	TIE, CABLE BUNDL. DIA 0-1-3/4"-101	11	11
21		E-UA-TS04K-A-0	TS11K-AA	CONVERT TS11 TO 120V(LINE CORD, F	REF	REF
22			9006022-02	SCREW, FLAT, PHIL, 6-32X 3/8	2	2
23			9009030-00	/REPLACED BY 90-06560-00		
24			3512580-00	DECAL, GROUND SIGN PER 3E6 *	5	5
25		A-PS-3512063-0-0	3512063-00	LABEL, ADHESIVE I.D. FOR UL C	1	1
26		A-PS-3513210-0-0	3513210-00	LABEL, ELECTRICAL DATA	1	1
27		C-1A-7013603-0-0	7013603-00	POWER SUPPLY HARNESS	1	1
28		A-PS-1213756-0-0	1213756-20	GROUND STRAP	1	1
29		A-PS-1213756-0-0	1213756-07	GROUND STRAP	1	1
30		A-PS-1215843-0-0	1215843-00	CLIP, FLAT CABLE W/ADHESIVE BK	6	6

REVISION HISTORY		BASIC PART NO: OTS04		DRN: G.MARINI		DATE: 22-JUN-81		DIGITAL	
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					DRIVE, FRAME ASSY (TS04-A)	
			(A) AA, AB						
			(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:	22745B.PLS
									EDIT # 7

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