

digital

11/04

Engineering Drawings

Digital Equipment Corporation

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FIELD MAINTENANCE PRINT SET

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FIELD MAINT. PRINT SET 11/04	B-TC-11/04-0-1		
UNIT ASSY 11/04	E-UA-11/04-0-0		
UNIT ASSY 11/04 (PL)	C-PL-11/04-0-0		
UNIBUS TERM BOOT STRAP	D-CS-M9301-YA-1		
UNIBUS TERM	D-CS-M9302-0-1		
DRAWING DIRECTORY DD11-C (COMPLETE SET)	B-DD-DD11-C		
DRAWING DIRECTORY DD11-P (COMPLETE SET)	B-DD-DD11-P	NOTE 2	5.25 INCH MOS H777 BALL-L BOX
PRINT SET BALL-L	MP00018		
PRINT SET KY11-LA	MP00017		
PRINT SET MS11-E	MP00021		
PRINT SET KD11-D	MP00020		
PRINT SET MM11-YP	MP00317		
PRINT SET MM11-DP	MP00032		
PRINT SET MM11-CP	B-DD-MM11-C		
DRAWING DIRECTORY 11/04	B-DD-11/04-0		
PRINT SET DL11-W	MP00106		
PARITY CONTROL MODULE	B-CS-M7850-0-1	NOTE 2	5.25 INCH CORE H777 BALL-L BOX
SHIPPING LIST 11/04 (5.25)	A-PL-11/04-0-2		
SHIPPING LIST 11/04 (10.5)	A-PL-11/04-0-3		
PRINT SET 7013323	MP00270		
MOUNTING BOX	UA-BALL-K		
	DD-BALL-K		
	PL-BALL-K		
UNIBUS TERM BOOT	D-CS-M9312-0-1	NOTE 1	10.5 INCH MOS BALL-K BOX
NOTES:			
1. ALL 10.5" VERSIONS OF THE 11/04 COMPUTER WITH SERIAL NUMBERS GREATER THAN _____ CONTAIN 32 AMP., + 5 VOLT REGULATORS AND ARE BATTERY BACK-UP COMPATIBLE.		NOTE 1	10.5 INCH CORE BALL-K BOX
2. ALL 5.25" VERSIONS OF THE 11/04 COMPUTER WITH SERIAL NUMBERS GREATER THAN _____ CONTAIN 32 AMP., +5 VOLT REGULATORS. ALL 5.25" VERSIONS ARE BATTERY BACKUP COMPATIBLE.		NOTE 2	5.25 INCH MOS H777 BALL-L BOX

UNIT VARIATIONS COVERED BY THIS PRINT SET	UNIT VARIATIONS COVERED BY THIS PRINT SET
11/04-AA	
11/04-AB	
11/04-AC	
11/04-AD	
11/04-BA	
11/04-BB	
11/04-BC	
11/04-BD	
11/04-DA	
11/04-DB	
11/04-DC	
11/04-DD	
11/04-FC	11/04-JC
11/04-FD	11/04-JD
11/04-HC	
11/04-HD	
11/04-MC	
11/04-MD	
11/04-HA	
11/04-HB	
11/04-DH	
11/04-DJ	
11/04-LH	
11/04-LJ	
11/04-DM	
11/04-DN	
11/04-HH	11/04-JH
11/04-HJ	11/04-JJ
11/04-MH	
11/04-MJ	
11/04-HM	
11/04-HN	
11/04-LC	
11/04-LD	

11/04
**Field Maintenance
Print Set**

**Digital Equipment
Corporation**

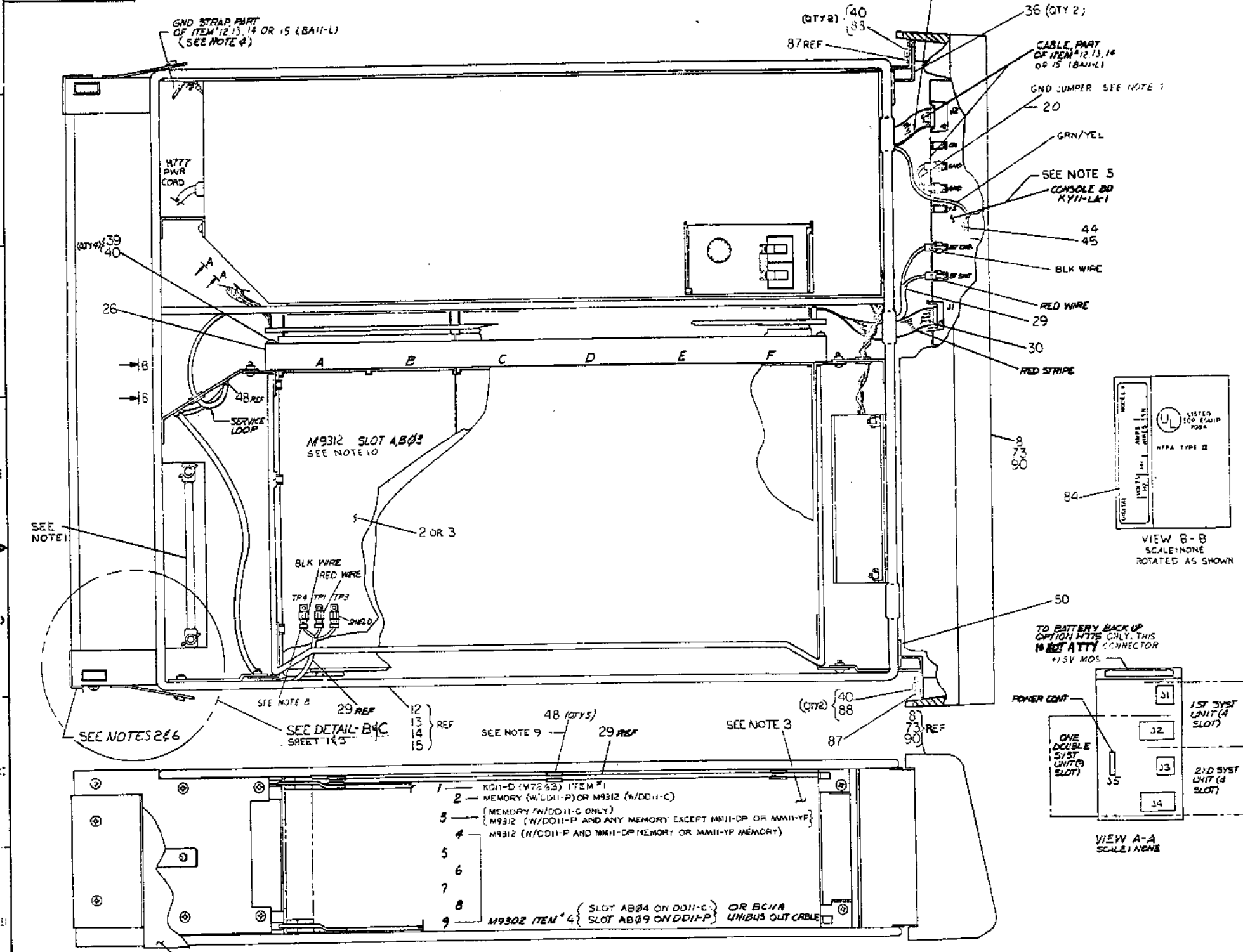
PRINT SET ORDER NO.
MP00019

REVISIONS		USED ON OPTION/MODEL	DRN.	DATE	TITLE:			
DATE	CHG. NO.		D. HEALY	9/30/75	digital			
30 MAR 76	11/04-3		CHK'D	DATE	FIELD MAINTENANCE PRINT SET			
6 JULY 76	11/04-4		D. HEALY	9/30/75	11/04			
5 MAY 77	11/04-7		PROJ. ENG.	DATE	SIZE	CODE	NUMBER	REV.
5 DEC 77	11/04-9		<i>B. Benoit</i>	10-22-75	B	TC	11/04-0-1	E
2 FEB 78	11/04-10		FIELD SERV.	DATE	DIST.			
			<i>H. Chy...</i>	10-22-75				
		SHEET 1 OF 1						

EN 01124-16-NB76-1227

DRB 124

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- NOTES:
1. UNIBUS AND I/O CABLE HOLD DOWN BAR TO BE USED TO CLAMP ALL EXITING CABLES.
 2. FOR RACK MOUNTING INSTRUCTIONS & DIM SEE DRAWING NO E-UA-BA11-L-0
 3. FOR MODULE PLACEMENT RULES REFER TO DRAWING D-MU-DD11-P2
 4. DISCONNECT WRAP AROUND GROUND WIRE BEFORE REMOVING FROM ENCLOSURE.
 5. FOR WIRING INFORMATION OF KY11-LB (PROGRAMMER CONSOLE) SEE SHEET 3 OF 3.
 6. FOR CAB MTO REMOVE SHIPPING BRKTS AND INSTALL AS SHOWN IN DETAIL "B" USING 2 #10-32X.50 TRUSS HD SCREWS & 2 #10-32 KEP (TOP BOTH SIDES) PLUS EXISTING HOW AS INDICATED IN DETAIL "B".
 7. THIS JUMPER IS REQUIRED ON ALL CS REF & CONSOLE MODULES, USED IN BAIL BOXES.
 8. IN PDP11/04 SYSTEMS WITHOUT BATTERY BACKUP (OPTION H775) THE TPI CONNECTION WILL CAUSE **BOOTS ON ALL POWER RESTARTS IF NOT DESIRED, REMOVE THE TPI CONNECTION, INSULATE THE CABLE TERMINAL AND TIE IT BACK ON ITSELF WITH A TIE WRAP.**
 9. AFTER INSERTING WIRE IN CLAMPS HAND FLEX THE ADHESIVE BACKED SECTIONS SUCH THAT THEY ARE AGAIN FLAT. HEAT CURE THE CLAMP & WIRE ASSY ON TO THE DESIGNATED AREAS USING A HEAT GUN AT A DISTANCE OF 6 INCHES FOR A PERIOD OF 10 SECONDS.
 10. EITHER M9312 OR M9301 MAYBE USED BUT NOT BOTH.

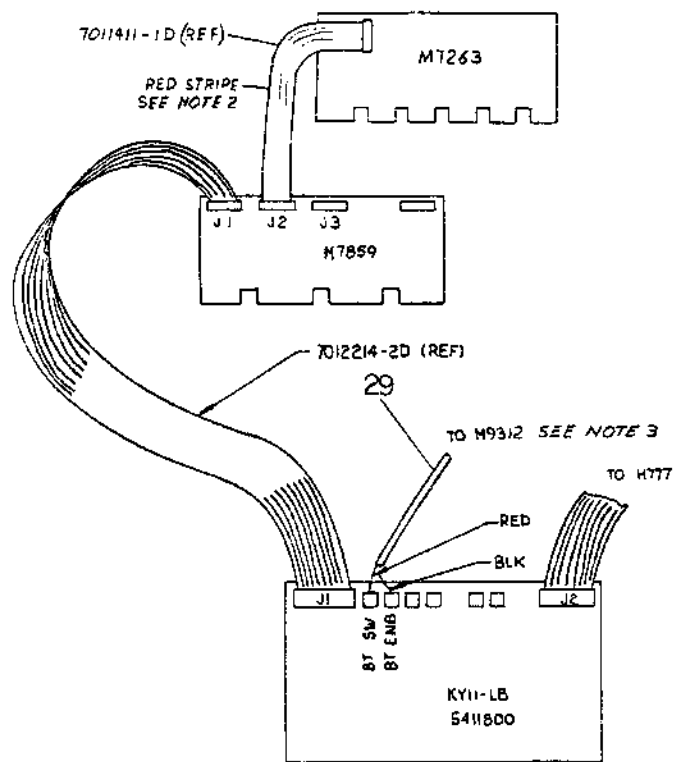
QTY	DESCRIPTION	REF
1	K011-D (M7233) ITEM #1	
2	MEMORY (W/DD11-P) OR M9312 (W/DD11-C)	
3	{ MEMORY (W/DD11-C ONLY)	
4	M9312 (W/DD11-P AND ANY MEMORY EXCEPT MM11-CP OR MM11-YP)	
5	M9312 (W/DD11-P AND MM11-CP MEMORY OR MM11-YP MEMORY)	
6		
7		
8	M9302 ITEM #4 { SLOT AB04 ON DD11-C } OR BC1A UNIBUS OUT CABLE { SLOT AB09 ON DD11-P }	
9		

OFF SHEET PARTS LIST EXISTS SEE C-FL-11/24-0-0

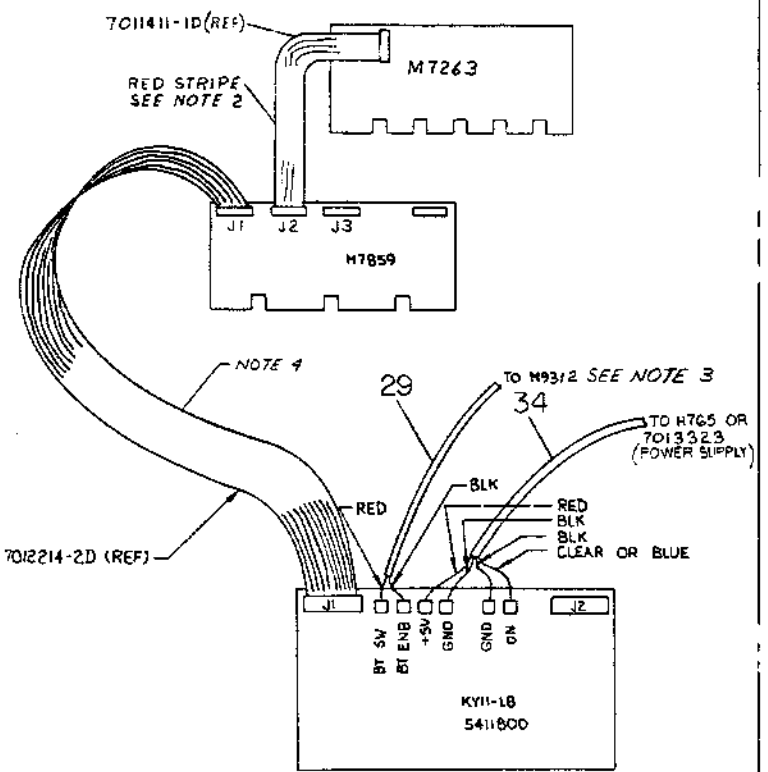
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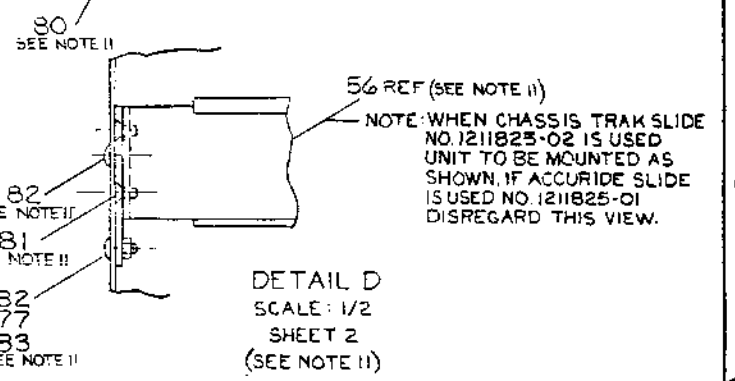
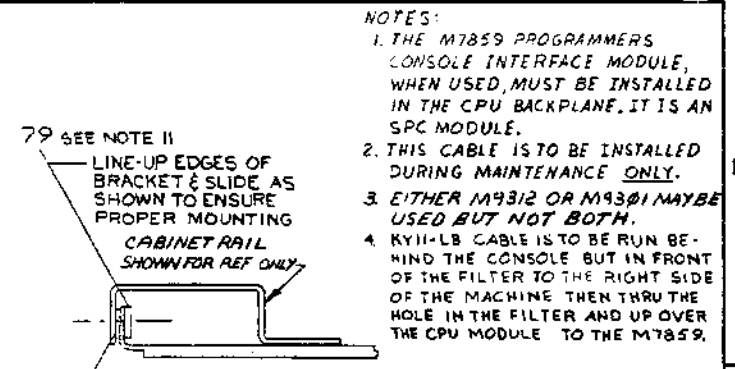
WIRING DIAGRAMS FOR KY11-LB



BA11-L
5 1/4" MTG BOX



BA11-KA & 7013323
10 1/2" MTG BOX & POWER SUPPLY



- NOTES:
1. THE M7859 PROGRAMMERS CONSOLE INTERFACE MODULE, WHEN USED, MUST BE INSTALLED IN THE CPU BACKPLANE. IT IS AN SPC MODULE.
 2. THIS CABLE IS TO BE INSTALLED DURING MAINTENANCE ONLY.
 3. EITHER M9312 OR M9301 MAY BE USED BUT NOT BOTH.
 4. KY11-LB CABLE IS TO BE RUN BEHIND THE CONSOLE BUT IN FRONT OF THE FILTER TO THE RIGHT SIDE OF THE MACHINE THEN THRU THE HOLE IN THE FILTER AND UP OVER THE CPU MODULE TO THE M7859.

REVISIONS		
CHK	CHANGE NO	REV

TITLE	UNIT ASSY 11/84	SIZE CODE	DUA	NUMBER	11/84-0-0	REV.	A1
SCALE		SHEET	3	OF	3	DIST.	

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ITEM NO.	DRAWING NO.	DESCRIPTION	11/84																			
			AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	
44	9008072	WASHER, EX. TOOTH #8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
45	9009799	SCREW, PHIL. FLAT HD #8 - 32 x .31	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
46	9006634	WASHER, LOCK #8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
47	9006070-2	SCREW, PHIL. FLAT HD 10 - 32 x .31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
48	9009771-03	CLAMP, CABLE	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5		
49	1211336-2	TAPE, 8" LONG	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
50	1212707	AIR FILTER BALL-K	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
51	1212392-02	AIR FILTER BALL-K	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
52	D-UA-H958-FB-8	COVER, 5.25 BEZEL (SNAP ON)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
53	C-MD-7413659-0-0	SHIPPING BRACKET BALL-K	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
54	1209224	LATCH, MOLDING	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
55	A-DC-7409478-0-0	DECAL, PATENT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
56	D-PS-1211825-0-0	SLIDE, 3 POS., TILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
57	A-DC-3309414-0-0	DECAL, SNA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
58	A-DC-3309413-0-0	DECAL, SNA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
59	B-DC-7415118-0-0	DECAL STICKER 11/84	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
60	9007880	TIE WRAP	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
61	1209340-0-0	CONNECTOR, DUMMY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
62	B-MD-7417628-0-0	BRACKET, BEZEL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
63	A-DC-7415502-0-0	MODULE DECAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
64	9006660	WASH, FL. 38 O.D. x .19 I.D. x .03	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
65	B-MD-7417627-0-0	ADAPTER BRACKET, BEZEL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
66	A-SP-3700061-0-0	PKG. INST. 11/84 (5.25) CUSTOMER	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
67	A-SP-3700197-0-0	PKG. INST. 11/84 (5.25) IMPLANT	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
68	A-SP-3700169-0-0	PKG. INST. 11/84 (10.5) CUSTOMER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
69	A-SP-3700235-0-0	PKG. INST. 11/84 (10.5) IMPLANT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
70	D-LA-7009768-0-0	COVER, CHASSIS BALLK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
71	9006660-2	WASH, FL. 38 O.D. x .19 I.D. x .03	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
72	9007880	TIE WRAP	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
73	E-MD-7415599-0-0	BEZEL 11/84	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
74	9007691	WASHER #10 EXT TOOTH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
75	9007651	WASHER #10 EXT TOOTH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
76	9006071-3	SCREW PHIL TRUSS HD #10 - 32 x .38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
77	9006565	NUT KEPS #10 -32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
78	9006020-3	SCREW, PHIL TRUSS HD #6-32 x .25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
79	B-MD-7417892-0-0	NUT PLATE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
80	B-MD-7417883-0-0	PLATE, SLIDE MOUNTING	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
81	9006071-2	SCREW, PHIL. FLAT HD #10-32 x .38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
82	9006073-03	SCREW, PHIL TRUSS HD #10-32 x .50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
83	9006664	WASHER, FLAT #10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
84	A-PS-3613210-0-0	LABEL, ELECTRICAL DATA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
85	9009599	SCREW, PHIL FLAT HD #10-32 x .50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
86	9006020-2	SCREW, PHIL FLAT HD #6-32 x .25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
87	B-MD-7418779-0-0	STRIP BEARING	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
88	9006039-03	SCREW, PHIL TRUSS HD #8-32 x .50	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
89	D-CS-M9342-0-1	TERM/BOOT SEE NOTE 2 SHI 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
90	D-MD-7415656-0-0	BEZEL, COVER PROTECTIVE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		

REV.	CHG. NO.	REVISIONS	DATE	BY	DESCRIPTION	FIRST USED ON OPTION/MODEL	UNLESS OTHERWISE SPECIFIED	ORN.	DATE	CHK'D.	DATE	TITLE	EQUIPMENT CORPORATION	MAYNARD, MASSACHUSETTS	UNIT ASSY 11/84	SIZE/CCODE	NUMBER	REV.	
																			11/84
MATERIAL		+		FINISH		+		SCALE		+		SHEET		2 OF 2		DIST.			

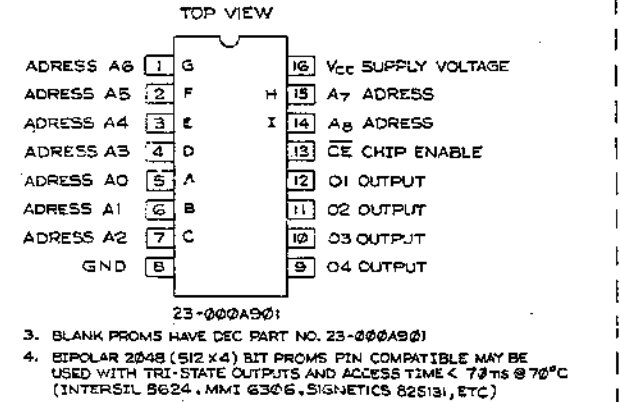
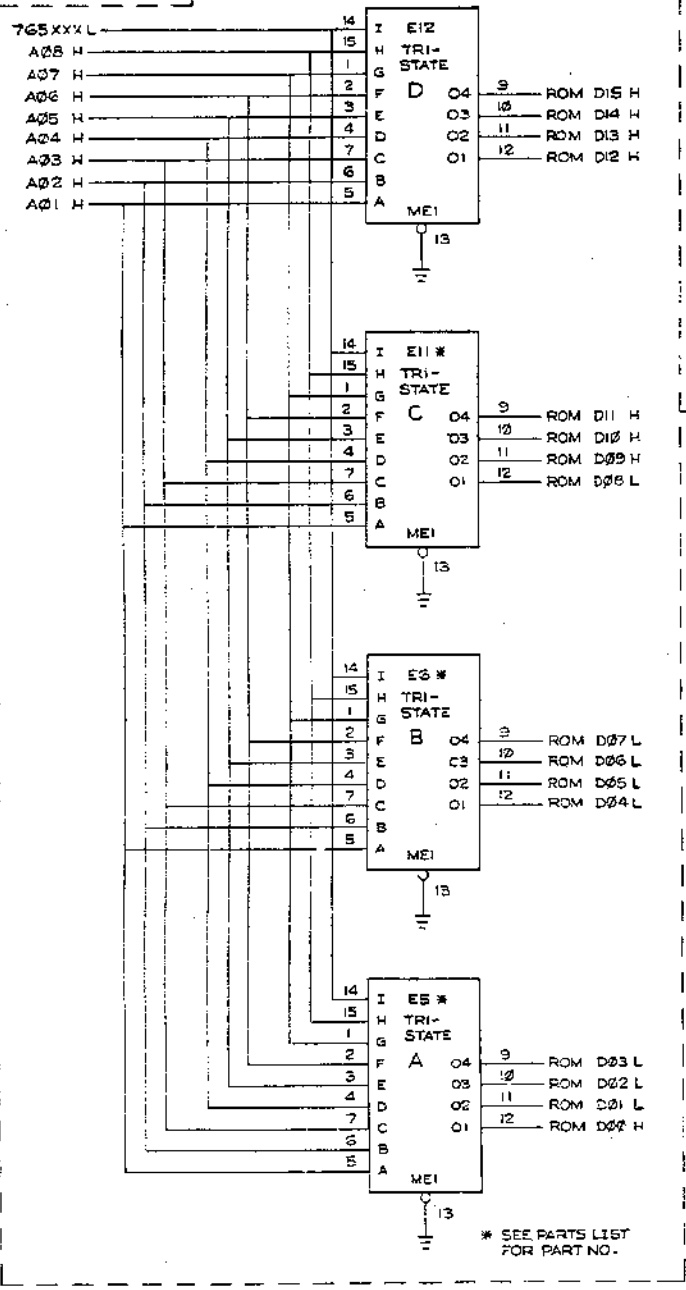
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QTY	UNIT	QTY	UNIT	QTY	UNIT	QTY	UNIT	QTY	UNIT	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
4	A	4	A	4	A	4	A	4	A	E5, E6, E11, E12	SOCKET, 16 PIN, I.C.	1211813	37
0	0	0	0	0	0	0	0	0	0	E5	I.C. DEC. TRI-STATE 2048 ROM	23034A9	38
0	0	0	0	0	0	0	0	0	0	E6	I.C. DEC TRI-STATE 2048 ROM	23035A9	39
0	0	0	0	0	0	0	0	0	0	E11	I.C. DEC TRI-STATE 2048 ROM	23036A9	40
0	0	0	0	0	0	0	0	0	0	E12	I.C. DEC TRI-STATE 2048 ROM	23037A9	41
0	0	0	0	0	0	0	0	0	0	E5	I.C. DEC TRI-STATE 2048 ROM	23038A9	42
0	0	0	0	0	0	0	0	0	0	E6	I.C. DEC TRI-STATE 2048 ROM	23039A9	43
0	0	0	0	0	0	0	0	0	0	E11	I.C. DEC TRI-STATE 2048 ROM	23040A9	44
0	0	0	0	0	0	0	0	0	0	E12	I.C. DEC TRI-STATE 2048 ROM	23041A9	45
0	0	0	0	0	0	0	0	0	0	E5	I.C. DEC TRI-STATE 2048 ROM	23042A9	46
0	0	0	0	0	0	0	0	0	0	E6	I.C. DEC TRI-STATE 2048 ROM	23043A9	47
0	0	0	0	0	0	0	0	0	0	E11	I.C. DEC TRI-STATE 2048 ROM	23044A9	48
0	0	0	0	0	0	0	0	0	0	E12	I.C. DEC TRI-STATE 2048 ROM	23045A9	49
0	0	0	0	0	0	0	0	0	0	E5	I.C. DEC TRI-STATE 2048 ROM	23046A9	50
0	0	0	0	0	0	0	0	0	0	E6	I.C. DEC TRI-STATE 2048 ROM	23047A9	51
0	0	0	0	0	0	0	0	0	0	E11	I.C. DEC TRI-STATE 2048 ROM	23048A9	52
0	0	0	0	0	0	0	0	0	0	E12	I.C. DEC TRI-STATE 2048 ROM	23049A9	53
0	0	0	0	0	0	0	0	0	0	WI THRU WS	JUMPER, WIRE, WHITE INSULATION.	9009185	54
2	2	2	2	2	2	2	2	2	2	RIO. RIS	RES 220Ω, 1/4W, 5%	1300271	55
2	2	2	2	2	2	2	2	2	2		SPLIT LUG	9006735	56
0	0	0	0	0	0	0	0	0	0	E5	I.C. DEC TRI-STATE 2048 ROM	23480A9	57
0	0	0	0	0	0	0	0	0	0	E6	I.C. DEC TRI-STATE 2048 ROM	23481A9	58
0	0	0	0	0	0	0	0	0	0	E11	I.C. DEC TRI-STATE 2048 ROM	23482A9	59
0	0	0	0	0	0	0	0	0	0	E12	I.C. DEC TRI-STATE 2048 ROM	23483A9	60
0	0	0	0	0	0	0	0	0	0	E5	I.C. DEC TRI-STATE 2048 ROM	23332A9	61
0	0	0	0	0	0	0	0	0	0	E6	I.C. DEC TRI-STATE 2048 ROM	23333A9	62
0	0	0	0	0	0	0	0	0	0	E11	I.C. DEC TRI-STATE 2048 ROM	23334A9	63
0	0	0	0	0	0	0	0	0	0	E12	I.C. DEC TRI-STATE 2048 ROM	23335A9	64
0	0	0	0	0	0	0	0	0	0	E5	I.C. DEC TRI-STATE 2048 ROM	23539A9	65
0	0	0	0	0	0	0	0	0	0	E6	I.C. DEC TRI-STATE 2048 ROM	23539A9	66
0	0	0	0	0	0	0	0	0	0	E11	I.C. DEC TRI-STATE 2048 ROM	23540A9	67
0	0	0	0	0	0	0	0	0	0	E12	I.C. DEC TRI-STATE 2048 ROM	23541A9	68
0	0	0	0	0	0	0	0	0	0	E5	I.C. DEC TRI-STATE 2048 ROM	23521A9	69
0	0	0	0	0	0	0	0	0	0	E6	I.C. DEC TRI-STATE 2048 ROM	23521A9	70
0	0	0	0	0	0	0	0	0	0	E11	I.C. DEC TRI-STATE 2048 ROM	23522A9	71
0	0	0	0	0	0	0	0	0	0	E12	I.C. DEC TRI-STATE 2048 ROM	23522A9	72
0	0	0	0	0	0	0	0	0	0		WIRE 30 GA.	9105140-55	73
1	0	0	0	0	0	0	0	0	0	E5	I.C. DEC TRI-STATE 2048 ROM	23744A9	74
1	0	0	0	0	0	0	0	0	0	E6	I.C. DEC TRI-STATE 2048 ROM	23745A9	75
1	0	0	0	0	0	0	0	0	0	E11	I.C. DEC TRI-STATE 2048 ROM	23746A9	76
1	0	0	0	0	0	0	0	0	0	E12	I.C. DEC TRI-STATE 2048 ROM	23747A9	77
											CEMENT PERMAEPOX	9009157	78

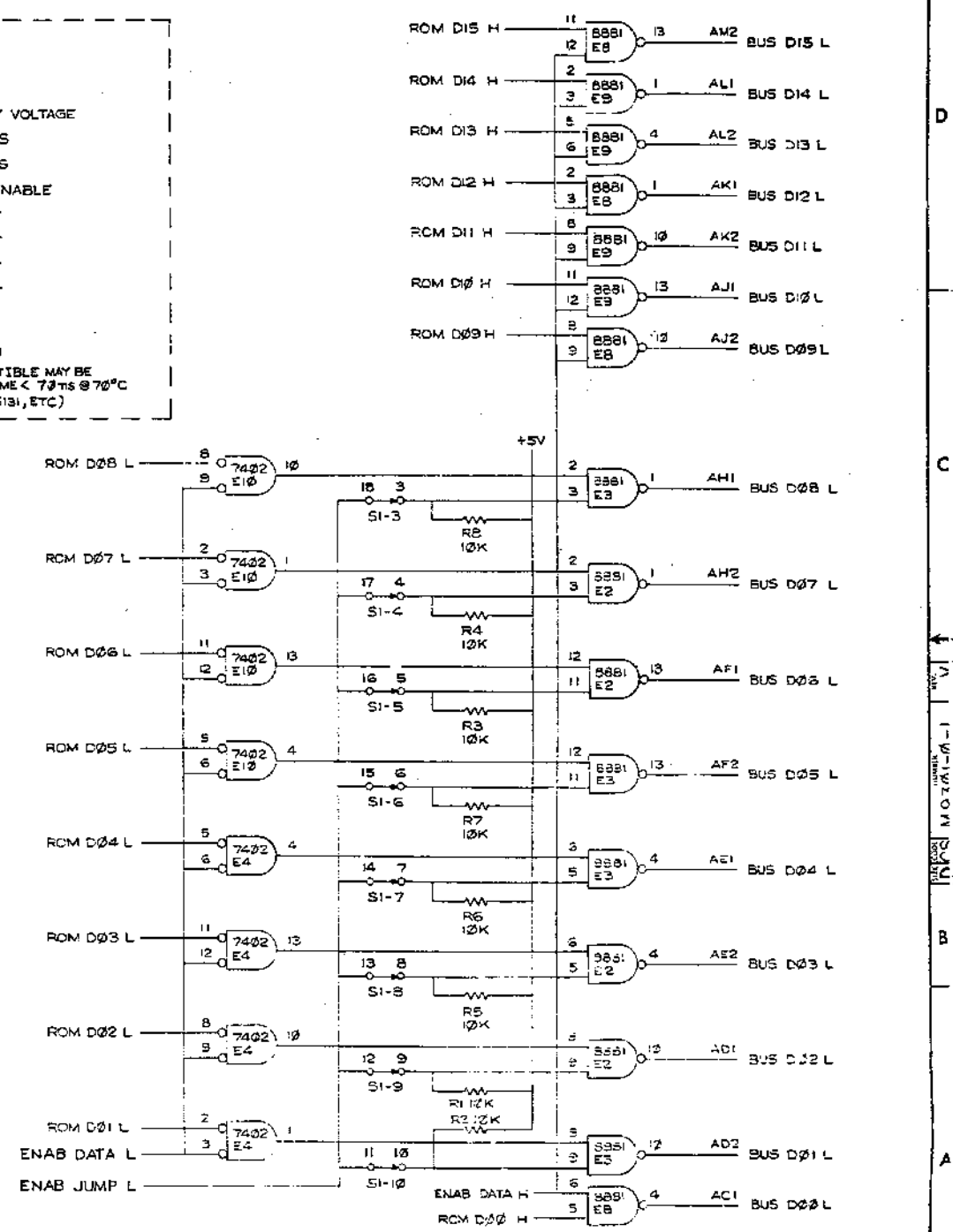
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE UNIBUS TERMINAL BOOTSTRAP
 SIZE CODE DCS
 NUMBER M9301-1-1
 REV. 1V
 SCALE 1:1 SHEET 2 OF 5

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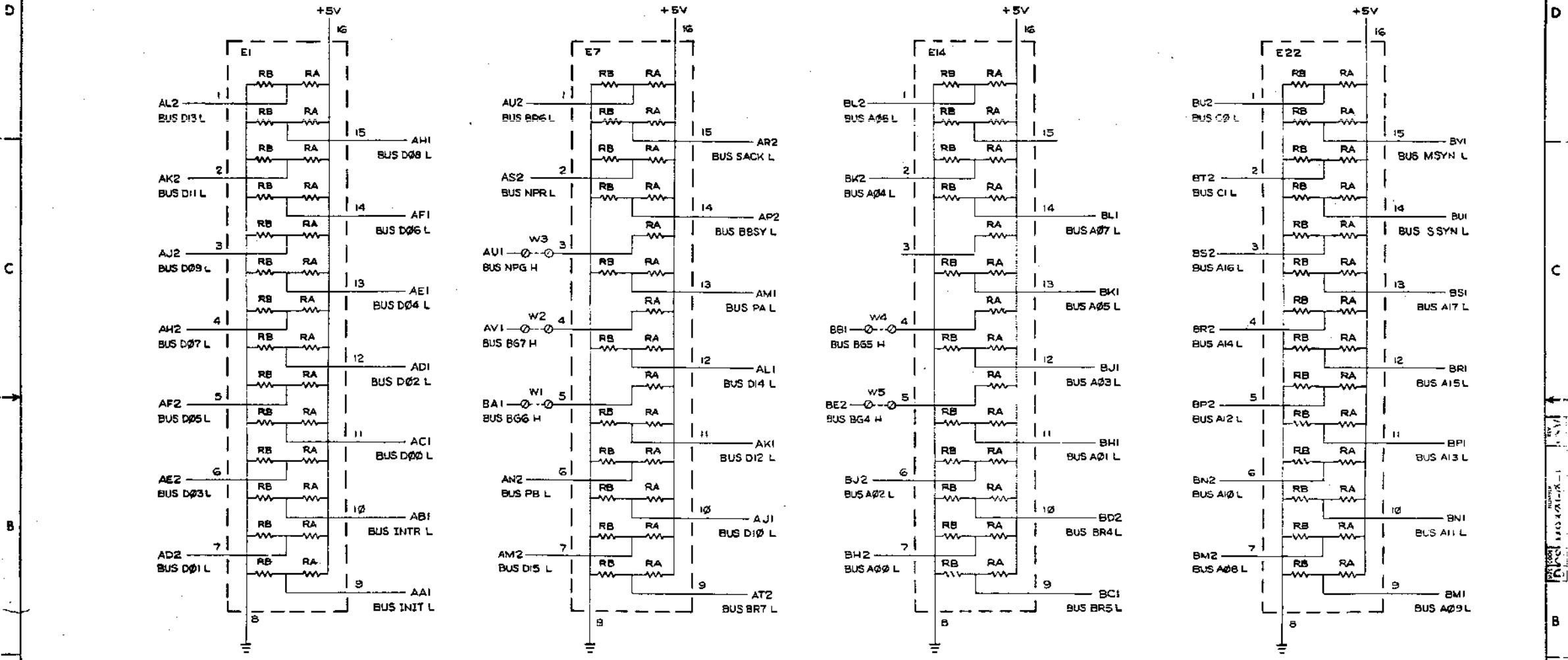
ADDRESS RANGE	
765200-765776	LOW ROM
773230-773776	HIGH ROM



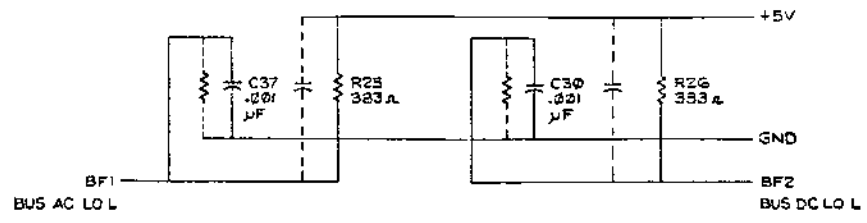
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	UNIBUS TERMINATOR/BOOTSTRAP	SIZ: 0008	NUMBER	M9301-0-1	REV.	V
SCALE	SHEET 4 OF 5	DIST.				

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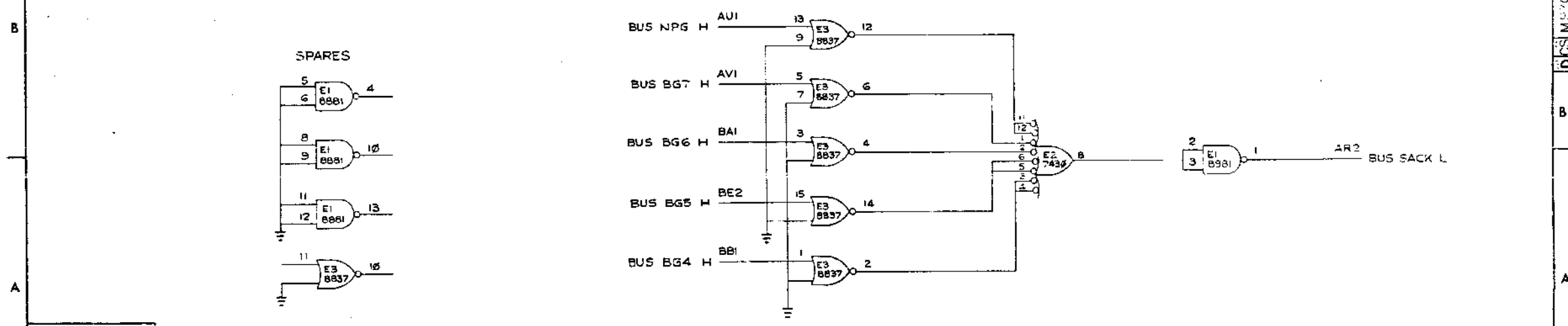
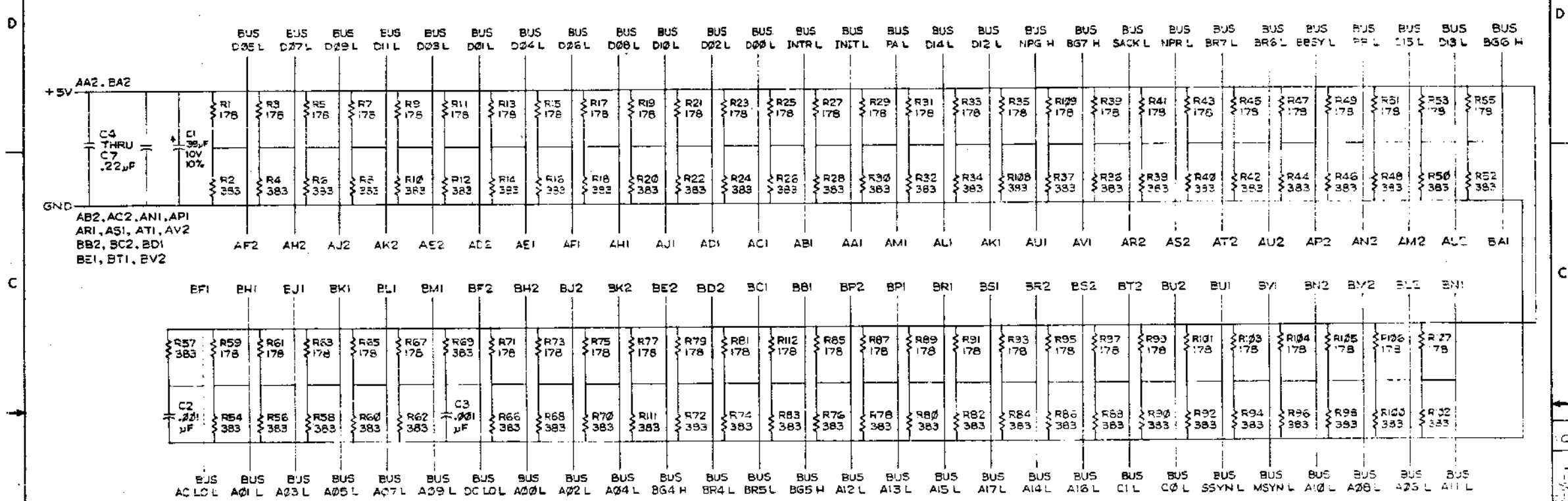


- NOTES :
1. ALL RA RESISTORS SHOWN ARE 176.5Ω, ±2%
 2. ALL RB RESISTORS SHOWN ARE 375Ω, ±2%
 3. JUMPERS W1 THRU W5 ARE ONLY INSERTED ON THE M9301-YC AND M9301-YH IF USED IN AN 11/70 COMPUTER.



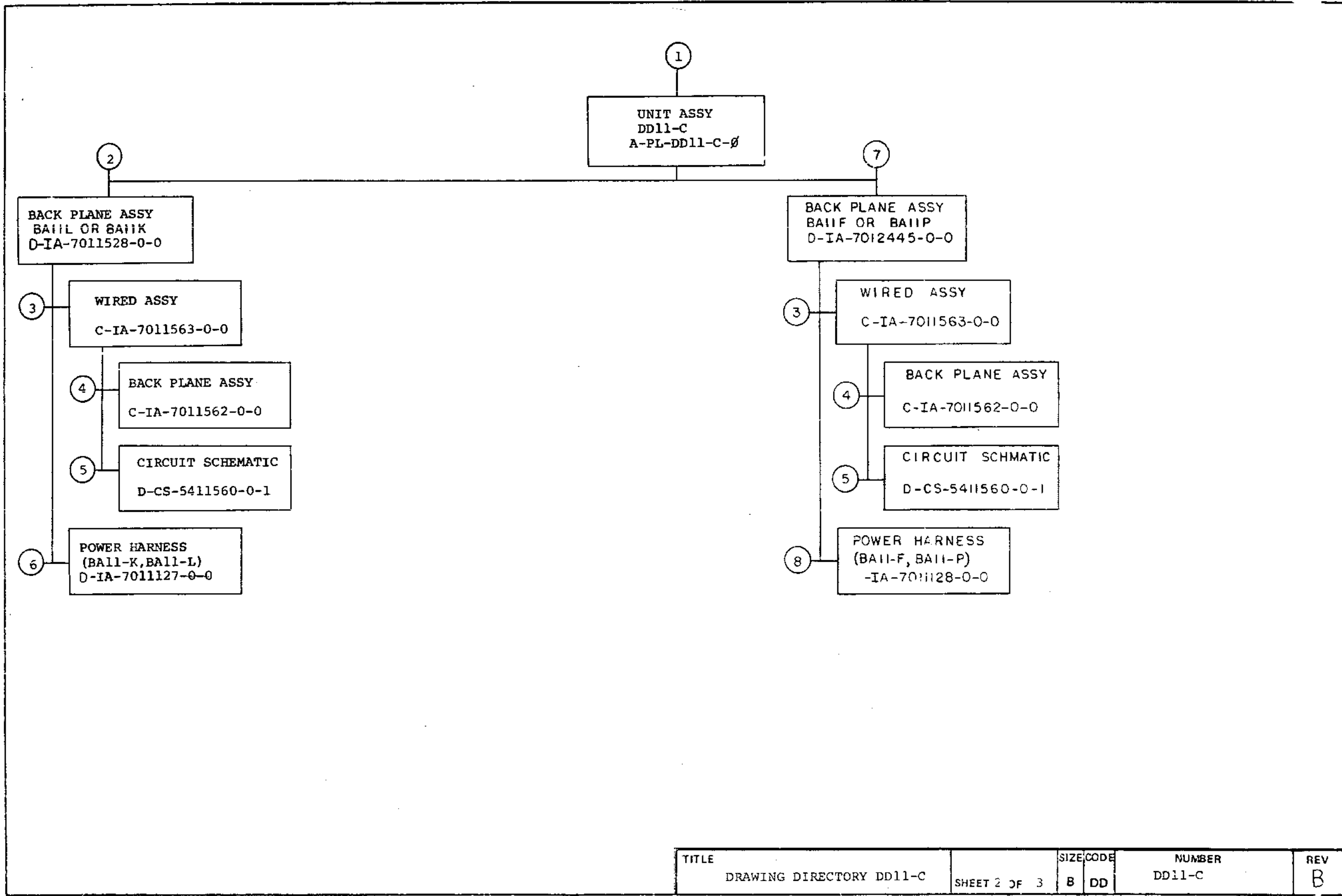
REVISIONS		
CHK	CHANGE NO.	REV.

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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	NUMBER	REV.
UNIBUS TERMINATOR	DCS	M9302-0-1	D
SCALE	SHEET 2 OF 2	DIST.	



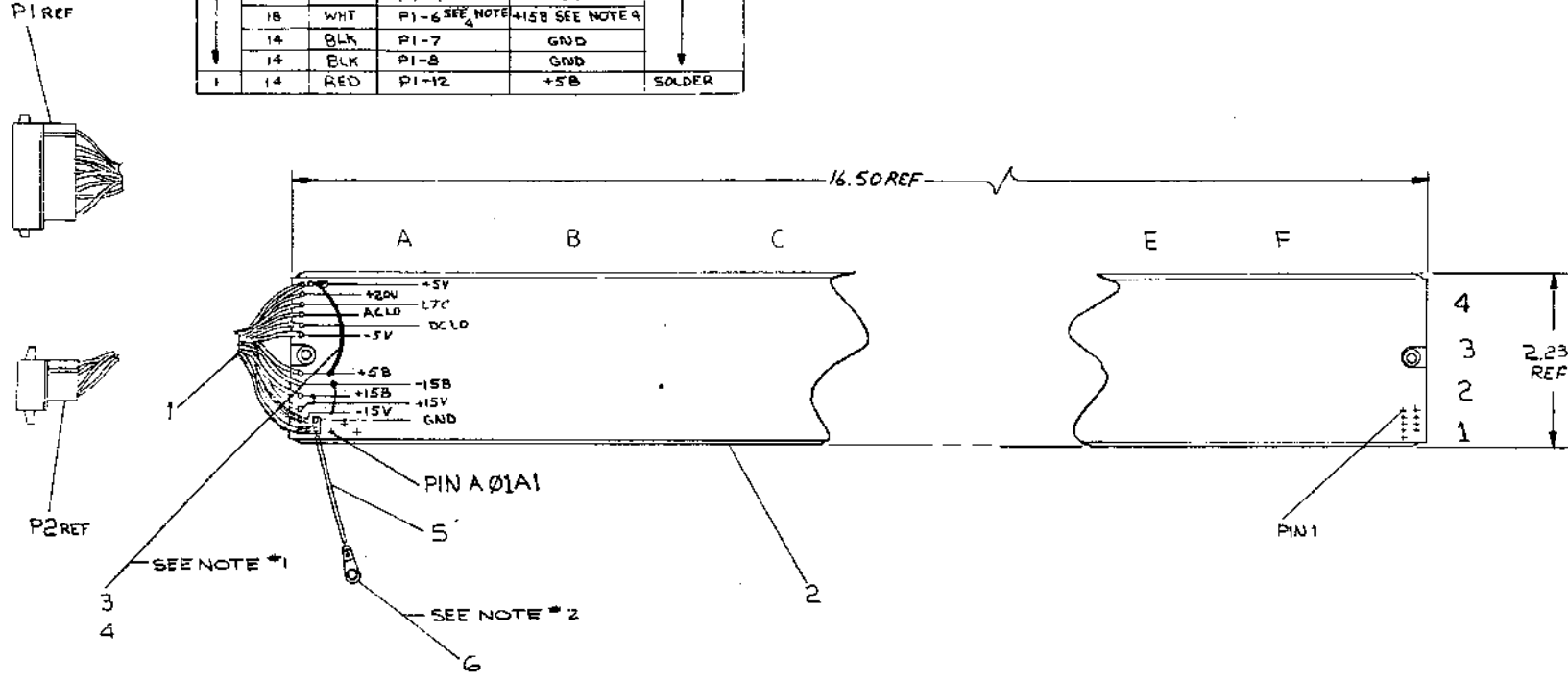
TITLE	SHEET	SIZE	CODE	NUMBER	REV
DRAWING DIRECTORY DD11-C	2 OF 3	B	DD	DD11-C	B

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WIRE TABLE					
ITEM NO	AWG	COLOR	FROM CONNECTION	TO CONNECTION	WITH
1	18	BLK	P2-1	GND	SOLDER
	18	BRN	P2-2	L7C	
	18	VIO	P2-3	DC LO	
	18	YEL	P2-4	AC LO	
	14	RED	P1-1	+5V	
	18	GRY	P1-2	+15V	
	18	ORN	P1-3	+20V	
	14	RED	P1-4	+5V	
	18	WHT	P1-6 SEE NOTE 4	+15B SEE NOTE 4	
	14	BLK	P1-7	GND	
	14	BLK	P1-8	GND	
1	14	RED	P1-12	+5B	SOLDER

WIRE TABLE					
ITEM NO	AWG	COLOR	FROM CONNECTION	TO CONNECTION	WITH
1	18	BLU	P1-13	-15V	
1	18	BRN	P1-14	-5V	
1	18	GRN	P1-15 SEE NOTE 4	-15B SEE NOTE 4	
1	18	GRN	P1-6 SEE NOTE 5	+15B SEE NOTE 5	
1	18	WHT	P1-15 SEE NOTE 5	-15B SEE NOTE 5	SOLDER

- NOTES:
- WHEN THE DD11-CK IS USED WITH A BAI1-K EXPANSION BOX WITHOUT BATTERY BACK-UP (I.E., NO 785 NOR 7850), INSTALL THE THREE JUMPERS SHOWN:
 1) -15 TO -15B
 2) +15 TO +15B
 3) +5 TO +5B (SEE NOTE 3)
 USE #22 SHIELDED BUS WIRE ON SIDE 2 THIS WILL PROVIDE POWER TO THE MOS MEMORY VOLTAGE RAILS.
 - INSTALL SHAKEPROOF SOLDER LUG (ITEM #6) UNDER THE SYSTEM UNIT MOUNTING SCREW TO PROVIDE A LOGIC GROUND TO CHASSIS GROUND CONNECTION.
 - BAI1-K'S THAT USE THE 5410864-YA-1 POWER DISTRIBUTION (I.E., 11/39A, 11/39 WITH EP11-AU, AND SOME 11/04'S) AND HAVE MORE THAN ONE DD11-CK (OR AN ADDITIONAL DD11-DK) CAN ONLY HAVE THE -5 TO +5B JUMPER IN ONE OF THE BACK PANELS. IF TWO OF THE BACK PANELS HAVE THE JUMPER IN, THE +5V REGULATORS MAY BE CONNECTED TOGETHER. TYPICALLY THIS JUMPER IS IN THE FIRST BACK PANEL, BUT IT MAY BE PLACED IN ONE OF THE OTHER BACK PANELS IF DEEMED NECESSARY FOR POWER REQUIREMENTS.
 - WHEN USING REV. C HARNESS USE THESE POINT-TO-POINT CONNECTIONS.
 - WHEN USING REV. B OR EARLIER HARNESS, USE THESE POINT-TO-POINT CONNECTIONS.



DESCRIPTION	DWG. PART NO.	ITEM NO.
SHAKEPROOF SOLDER LUG	9008180	6
WIRE #18AWG STRD (BLK)	9107360-00	5
TUBING #22 (BLUE)	9107256-06	4
WIRE, BUS #22	9107560-01	3
WIRED ASSY DD11-C	D-1A-1015630-0	2
HARNESS POWER	D-1A-7011270-0	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

ANGLES	CLASS OF ACCURACY	NOMINAL DIMENSION RANGE INCHES						
15° 30'	ASSEMBLY	0	0.25	0.50	0.75	1.00	1.25	1.50
	CHECKING	0.01	0.02	0.03	0.04	0.05	0.06	0.07
	INSPECTION	0.02	0.03	0.04	0.05	0.06	0.07	0.08

QUANTITY & VARIATION: MICROINCHES: PREFERRED 2.00, 2.01, 2.02, 2.04, 2.05, 2.06, 2.08, 2.10

THIRD-ANGLE PROJECTION: REMOVE DIMENSION BREAK SHARP CORNERS. DO NOT SCALE DIMS. MATERIAL: SEE PARTS LIST. FINISH: /

DRN: *[Signature]* 11/20/75
 CHKD: *[Signature]* 1/1/77
 ENG: *[Signature]* 7-10-75
 PROJ. ENGR: *[Signature]* 7-10-75
 PROD. #1: *[Signature]* 8/1/77

FIRST USED ON: BAI1-L, K

TITLE: BACK PLANE ASS'Y DD11-CK

SIZE: A-PL-0011-C-Ø
 SCALE: NONE
 SHEET: POF 1

REV. D: I A 7011526-0.0

REV.	DESCRIPTION	DATE
A	ISSUE NO. 00001	11/20/75
B	ISSUE NO. 00002	1/1/77
C	ISSUE NO. 00003	7-10-75
D	ISSUE NO. 00004	8-1/77

DESIGNED BY: B. BERRY
 DRAWN BY: D. BERRY
 CHECKED BY: J. P. MURPHY
 ENGINEER: J. P. MURPHY
 PROJECT: 7-10-75
 SHEET: 1 OF 1

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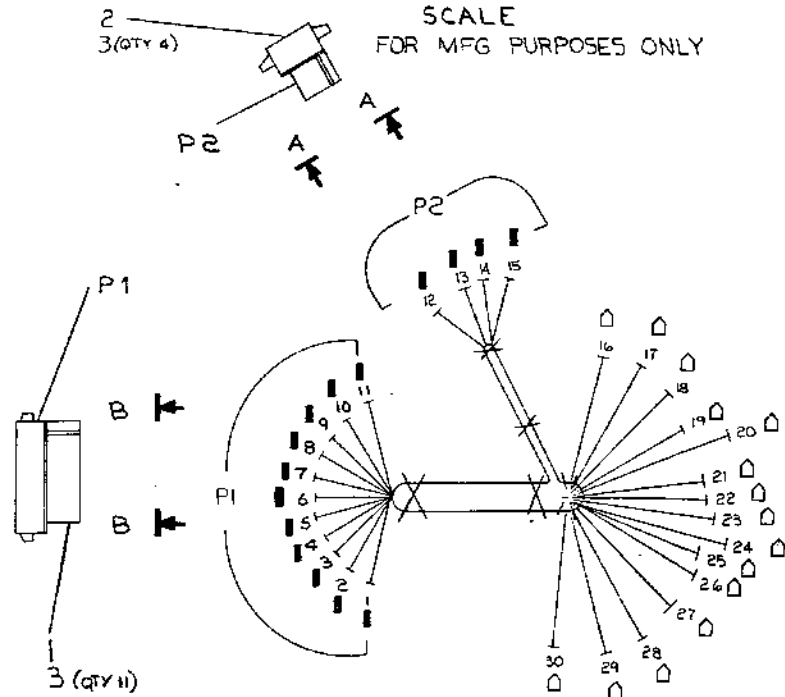
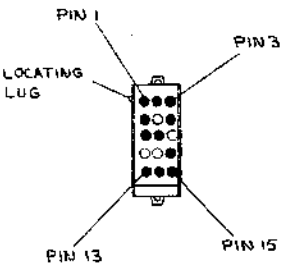
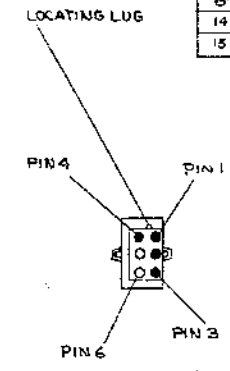
WIRE TABLE									
ITEM NO	DESCRIPTION	FROM	TO	SIGNAL					
NO	AWG	COLOR	POINT	CONNECTION	TERM	POINT	CONNECTION	TERM	SIGNAL
7	18	GRN	1	P1-15	ITEM 3	28		STRIP &	-15B
8	18	BRN	2	P1-14		19		TIN	-5V
9	18	BLU	3	P1-13		24			-15V
6	14	RED	4	P1-12		26			+5B
5	14	BLK	5	P1-8		29			GND
5	14	BLK	6	P1-7		27			GND
10	18	WHT	7	P1-6		25			+15B
6	14	RED	8	P1-4		17			+5V
11	18	ORN	9	P1-3		18			+20V
12	18	GRY	10	P1-2		23			+15V
6	14	RED	11	P1-1		16			+5V
13	18	BLK	12	P2-1		20			GND
8	18	BRN	13	P2-2		22			LTC
14	18	VIO	14	P2-3		21		STRIP &	DC LO
15	18	YEL	15	P2-4	ITEM 3	30		TIN	AC LO

NOTES:
1. USE TIE, CABLE (X) WHERE INDICATED.

DO NOT REDUCE



SCALE FOR MFG PURPOSES ONLY



AR	WIRE #18 STRD YEL	9107360-44	15
AR	WIRE #18 STRD VIO	9107360-77	14
AR	WIRE #18 STRD BLK	9107360-00	13
AR	WIRE #18 STRD GRY	9107360-88	12
AR	WIRE #18 STRD ORN	9107360-33	11
AR	WIRE #18 STRD GRN	9107360-55	10
AR	WIRE #18 STRD BLU	9107360-66	9
AR	WIRE #18 STRD BRN	9107360-11	8
AR	WIRE #18 STRD WHT	9107360-99	7
AR	WIRE #14 STRD RED	9107370-22	6
AR	WIRE #14 STRD BLK	9107370-00	5
X	5 TIE WRAP PANDUIT	9007680	4
1/5	PIN MALE	1209378-01	3
1	CONN 6 PIN MAT LOCK	1209351-06	2
1	CONN 15 PIN MAT LOCK	1209351-15	1

QUANTITY & VARIATION		MICRODIMENSIONS		FIRST USED ON	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FINISH	FINISH	FINISH	FINISH	FINISH	FINISH
DO NOT SCALE DIM	DO NOT SCALE DIM	DO NOT SCALE DIM	DO NOT SCALE DIM	DO NOT SCALE DIM	DO NOT SCALE DIM
MATERIAL	MATERIAL	MATERIAL	MATERIAL	MATERIAL	MATERIAL
SEE PARTS LIST	SEE PARTS LIST	SEE PARTS LIST	SEE PARTS LIST	SEE PARTS LIST	SEE PARTS LIST
FINISH	FINISH	FINISH	FINISH	FINISH	FINISH
SIZE	SIZE	SIZE	SIZE	SIZE	SIZE
DIA	DIA	DIA	DIA	DIA	DIA
NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
REV	REV	REV	REV	REV	REV
C	C	C	C	C	C

REVISIONS
REV. NO. 1
DATE 12/22/77
BY [Signature]
DESCRIPTION [Text]

7012445-0-0 2

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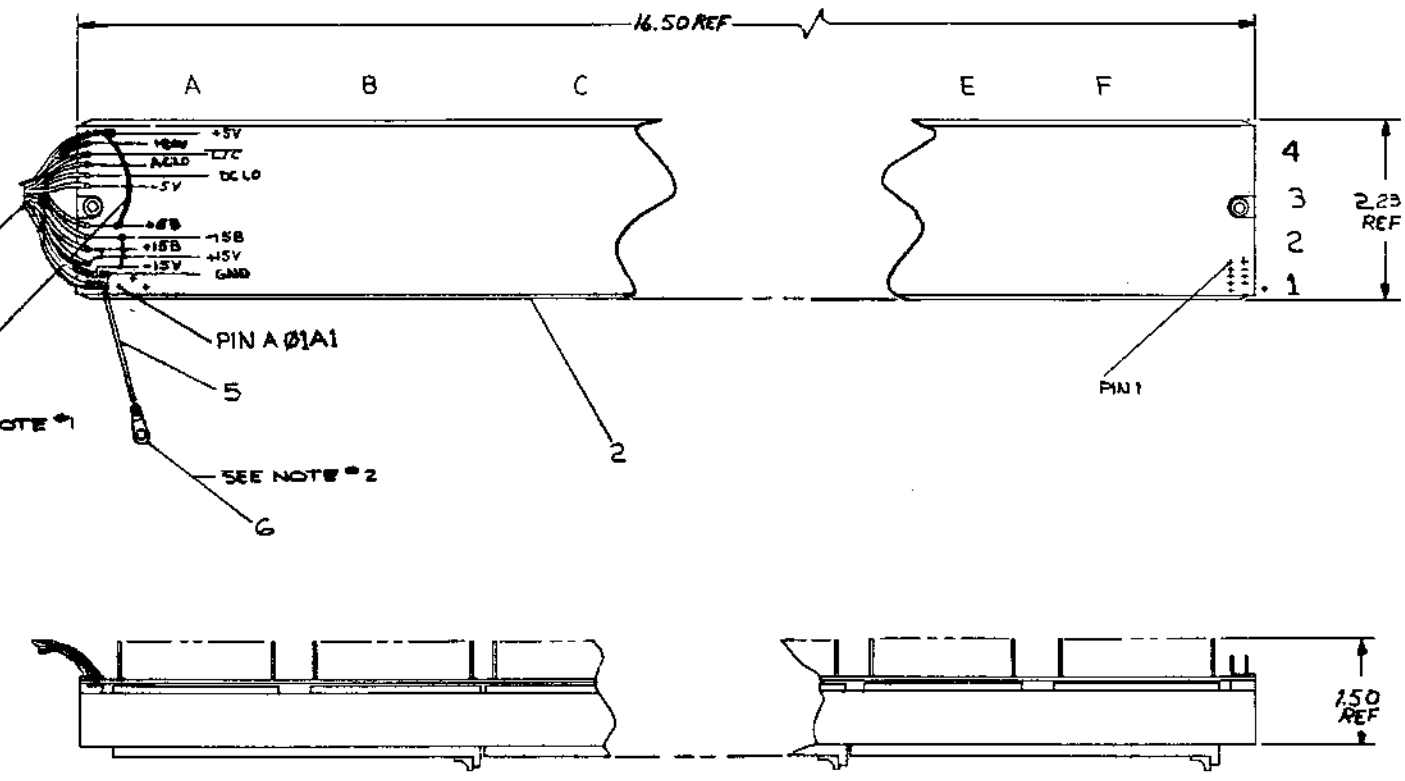
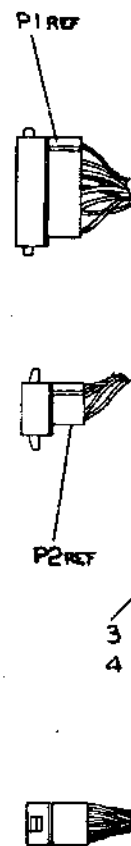
WIRE TABLE					
ITEM NO	DESCRIPTION	FROM	TO	WITH	
1	18 BLK	P2-1	GND	SOLDER	
	18 BRN	P2-2	LTC		
	18 VIO	P2-3	DC LO		
	18 YEL	P2-4	AC LO		
	14 RED	P1-1	+5V		
	18 GRN	P1-2	+15		
	10 DRN	P1-3	+20V		
	14 RED	P1-4	+5V		
	18 WHT	P1-6	+15B	SEE NOTE 4	SEE NOTE 5
	14 BLK	P1-7	GND		
	14 BLK	P1-8	GND		
	14 RED	P1-10	+5B	SOLDER	

WIRE TABLE					
ITEM NO	DESCRIPTION	FROM	TO	WITH	
1	18 BLU	P1-7B	-15V	SOLDER	
	18 BRN	P1-14	-5V		
	18 GRN	P1-15	-15B		
		SEE NOTE 4	SEE NOTE 4		
	18 GRN	P1-6	+15B		
		SEE NOTE 5			
	18 WHT	P1-15	-15B	SOLDER	
		SEE NOTE 5			

- NOTES:**
1. WHEN THE DDII-CF IS USED WITH A BAIL-F EXPANSION BOX WITHOUT BATTERY BACK-UP, INSTALL THE THREE JUMPERS SHOWN:
 - 1) -15 TO -15B
 - 2) +5 TO +15B
 - 3) +5 TO +5B
 USE #22 SHIELDED BUS WIRE ON SIDES. THIS WILL PROVIDE POWER TO THE MOS MEMORY VOLTAGE RAILS.
 2. INSTALL SHAKEPROOF SOLDER LUG (ITEM #6) UNDER THE SYSTEM UNIT MOUNTING SCREW TO PROVIDE A LOGIC GROUND TO CHASSIS GROUND CONNECTION.
 3. THE BAIL-F POWER HARNESS ITEM #1 IS NOT ELECTRICALLY COMPATIBLE WITH THE BAIL-L OR BAIL-K MOUNTING BOX.
 4. WHEN USING REV. A HARNESS USE THESE POINT-TO-POINT CONNECTIONS.
 5. WHEN USING REV. B HARNESS USE THESE POINT-TO-POINT CONNECTIONS.

D
C
B
A

D
C
B
A



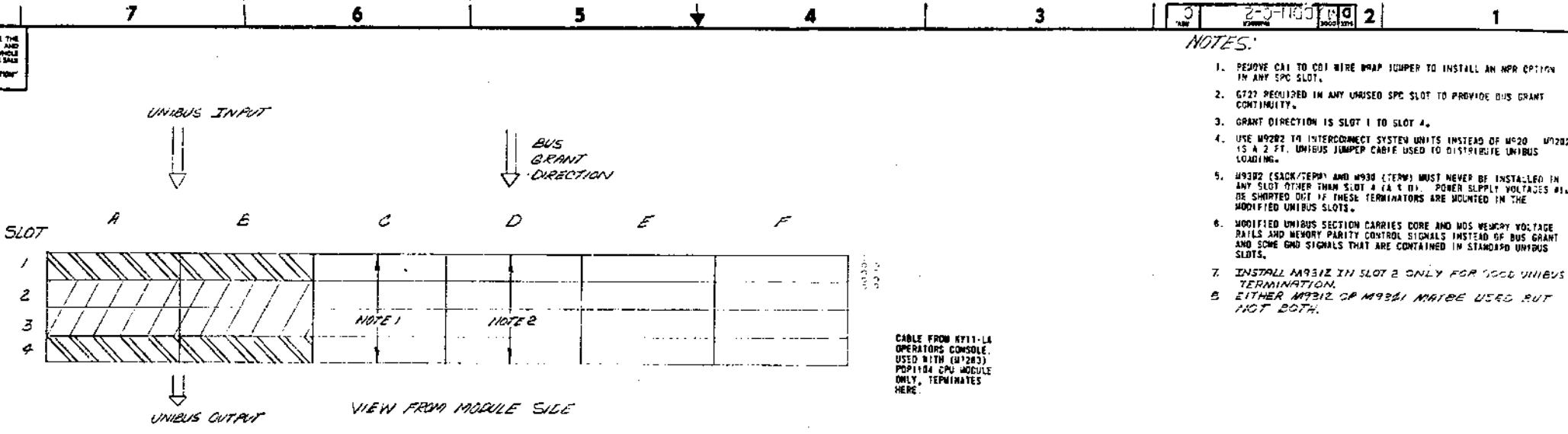
DESCRIPTION	DWG. PART NO.	ITEM NO.
1 SHAKEPROOF SOLDER LUG	9008180	6
2 WIRE BONDING STRIP (BLK)	9107560-00	5
4 TUBING #22 (BLUE)	910756-06	4
6 WIRE, BUS #22	9107560-01	3
1 WIRED ASSY DDII-C	D-7A-7012445-0-0	2
1 HARNESS, POWER F BOX	5-2A-701123-0-0	1

QUANTITY & VARIATION	CLASS OF ACCUM	MINIMUM DIMENSIONAL TOLERANCES
<input type="checkbox"/> MICROSECONDS <input type="checkbox"/> MILLI SECONDS <input type="checkbox"/> SECONDS	<input type="checkbox"/> SURFACE <input type="checkbox"/> MEDIUM <input type="checkbox"/> PREFERRED	DIMENSIONS IN INCHES DIMENSIONS IN MILLIMETERS DIMENSIONS IN CENTIMETERS
THIRD ANGLE PROJECTION REMOVE DIMENSION BREAK SHARP CORNERS DO NOT SCALE DIMS PARTS LIST	DWR P. [Signature] CHD D. [Signature] ENG E. [Signature] PROJ. [Signature] PROC. [Signature]	FIRST USED ON BAIL-F TITLE BACK PLANE ASS'Y DDII-CF SIZE CODE D 1A 7012445-0-0 NUMBER 1 OF 1

REV. 1	DATE	BY
1	10/11/70	D. BARRY
2	11/11/70	D. BARRY

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2-20-1100 Rev D

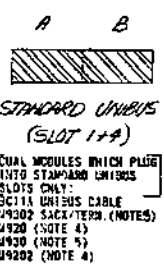


SLOT 1 (A & B) IS EITHER THE BEGINNING OF THE UNIBUS (M7263 CPU MODULE) OR THE UNIBUS CABLE INPUT (DC11A).

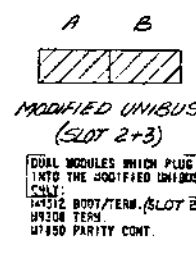
SLOT 4 (A & B) IS EITHER THE TERMINATION OF THE UNIBUS OR THE UNIBUS OUTPUT CABLE (DC11A).

- NOTES:
1. REMOVE CA1 TO C01 WIRE WRAP JUMPER TO INSTALL AN MPR OPTION IN ANY SPC SLOT.
 2. G723 REQUIRED IN ANY UNUSED SPC SLOT TO PROVIDE BUS GRANT CONTINUITY.
 3. GRANT DIRECTION IS SLOT 1 TO SLOT 4.
 4. USE M9202 IN INTERCONNECT SYSTEM UNITS INSTEAD OF M920. M9202 IS A 2 FT. UNIBUS JUMPER CABLE USED TO DISTRIBUTE UNIBUS LOADING.
 5. M9302 (SACK/TERM) AND M930 (TERM) MUST NEVER BE INSTALLED IN ANY SLOT OTHER THAN SLOT 4 (A & B). POWER SUPPLY VOLTAGES WILL BE SHORTED OUT IF THESE TERMINATORS ARE MOUNTED IN THE MODIFIED UNIBUS SLOTS.
 6. MODIFIED UNIBUS SECTION CARRIES CORE AND MOS MEMORY VOLTAGE RAILS AND MEMORY PARITY CONTROL SIGNALS INSTEAD OF BUS GRANT AND SOME GND SIGNALS THAT ARE CONTAINED IN STANDARD UNIBUS SLOTS.
 7. INSTALL M931Z IN SLOT 2 ONLY FOR 1000 UNIBUS TERMINATION.
 8. EITHER M732Z OR M9361 MAY BE USED BUT NOT BOTH.

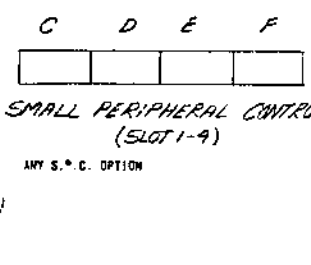
CABLE FROM K711-LA OPERATORS CONSOLE, USED WITH (M7263) PDP11B4 CPU MODULE ONLY, TERMINATES HERE.



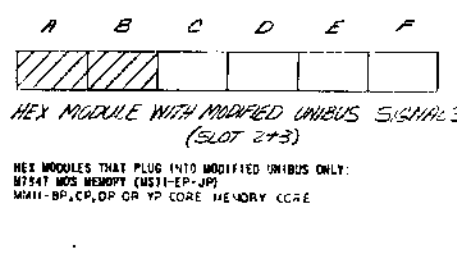
DUAL MODULES WHICH PLUG INTO STANDARD UNIBUS SLOTS ONLY:
DC11A UNIBUS CABLE
M9202 SACK/TERM (NOTES)
M920 (NOTE 4)
M920 (NOTE 5)
M9202 (NOTE 4)



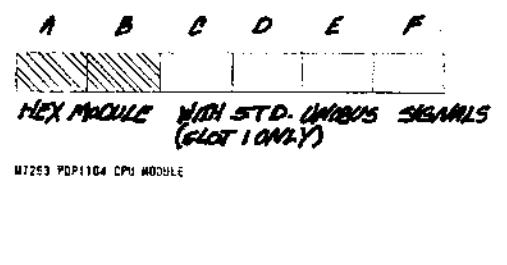
DUAL MODULES WHICH PLUG INTO THE MODIFIED UNIBUS SLOTS:
M732Z BOOT/TERM (SLOT 2 ONLY)
M930Z TERM
M930D PARITY CONT.



ANY S.*C. OPTION



HEX MODULES THAT PLUG INTO MODIFIED UNIBUS ONLY:
M754T MOS MEMORY (M511-EP-JP)
M7111-BP,CP,DP OR YP CORE MEMORY (CCE)



M7263 PDP11B4 CPU MODULE

- GENERAL
- ANY HEX MODULE THAT MEETS THE FOLLOWING REQUIREMENTS CAN BE MOUNTED IN THESE SLOTS.
1. THOSE PINNED TO TAKE SIGNALS FROM MODIFIED UNIBUS (A & B) WITH THE BUS GRANTS TAKEN FROM SPC SLOTS 10: ABOVE
 2. THOSE PINNED TO TAKE SIGNALS FROM STANDARD SPC PINNING WITH THE EXCEPTION OF POWER FROM (A & B) 10: SPECIAL OPTIONS

REV.	DATE	BY	CHKD.	DESCRIPTION
1	11/10/73	W. BERRY		INITIAL DESIGN
2	11/15/73	J. BERRY		REVISED FOR M7263
3	11/20/73	J. BERRY		REVISED FOR M9202
4	12/01/73	J. BERRY		REVISED FOR M9302
5	12/15/73	J. BERRY		REVISED FOR M931Z
6	1/10/74	J. BERRY		REVISED FOR M9361
7	1/15/74	J. BERRY		REVISED FOR M930D
8	1/20/74	J. BERRY		REVISED FOR M732Z
9	1/25/74	J. BERRY		REVISED FOR M754T
10	2/01/74	J. BERRY		REVISED FOR M7111
11	2/05/74	J. BERRY		REVISED FOR M7263
12	2/10/74	J. BERRY		REVISED FOR M7263
13	2/15/74	J. BERRY		REVISED FOR M7263
14	2/20/74	J. BERRY		REVISED FOR M7263
15	2/25/74	J. BERRY		REVISED FOR M7263
16	3/01/74	J. BERRY		REVISED FOR M7263
17	3/05/74	J. BERRY		REVISED FOR M7263
18	3/10/74	J. BERRY		REVISED FOR M7263
19	3/15/74	J. BERRY		REVISED FOR M7263
20	3/20/74	J. BERRY		REVISED FOR M7263

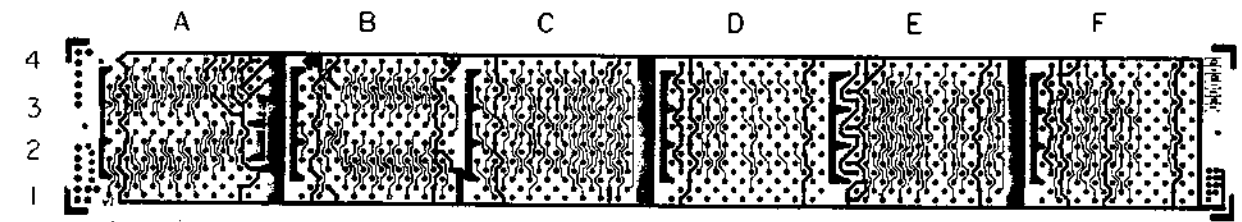
QUANTITY B VARIATION	MICRONMETER	PREFERRED	1.27	1.27	1.27	1.27	1.27	1.27	1.27
THIRD ANGLE PROJECTION	DRN.	CHKD.	ENG.	PROL. ENG.	PROD.	NEXT HIGHER ASSY.	MATERIAL	SCALE	FINISH
FIRST USED ON B-DD 10M-C							TITLE MODULE UTILIZATION		
D NO. 001-C-2							NUMBER	REV.	

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NOTES:

NOTES:

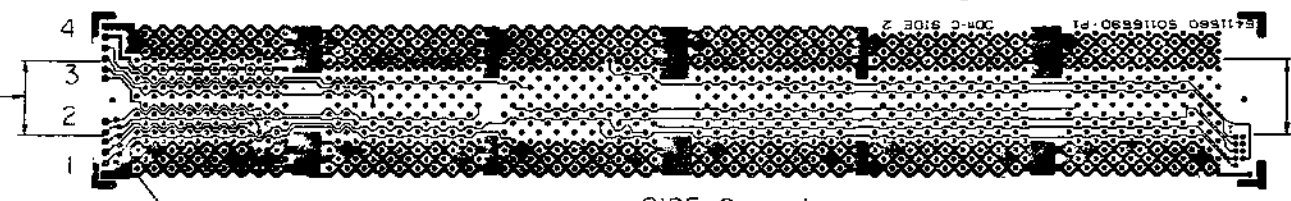
1. AN DRAWING MADE FROM SIDE 1.
2. HORIZON WIRE RUNS 1-20 MUST BE DRESSED INTO CENTER CHANNEL MARKED ON THIS DRAWING.
3. WIRES (TWISTED PAIRS) ARE GREY AND VIOLET.
4. GREY IS GND. VIOLET IS SIGNAL LINE.
5. SIDE 1 IS DARK. SIDE 2 IS LIGHT.



A0IAI
SIDE 1

RUN	FROM	TO	SIGNAL	RUN	FROM	TO	SIGNAL	RUN	FROM	TO	SIGNAL	RUN	FROM	TO	SIGNAL
1	B02U1	E01U1	SSYN L	5	A02P2	F01D1	BBSY L	9	B02F2	C01M	D01O	13	B01B1	D01P2	BG5A
1	B02T1	F01C2	GND	5	A02T1	F01C2	GND	9	B02C2	C01T1	GND	13	B01C2	D02T1	GND LEV2
2	B03U1	E04J1	SSYN L	6	A03P2	F04D1	BBSY L	10	B03F2	C04M1	D01O	14	B04B1	D04R2	BG5E
2	B03T1	F04C2	GND	6	A03T1	F04C2	GND	10	B03C2	C04T1	GND	14	B04C2	D03T1	GND LEV2
3	B02V1	E01E1	MSYN L	7	A02A1	D01L1	INIT L	11	B01E2	D01S2	BG4A	15	B01A1	D01M2	BG5A
3	B02V1	F01C2	GND LEV2	7	A02C2	D01T1	GND	11	B01C2	D01T1	GND	15	B01B2	D02T1	GND
4	B03V1	E04E1	MSYN L	8	A03A1	D04L1	INIT L	12	B04E2	D04T2	BG4E	16	B04A1	D04N2	BG5E
4	B03T1	F04C2	GND LEV2	8	A03C2	D04T1	GND	12	B04C2	D04T1	GND	16	B04B2	D03T1	GND

LAY TWISTED WIRE IN THIS AREA



A0IAI
SIDE 2

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

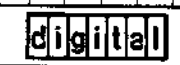
DESIGNED BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE
REVISIONS	

FIRST USED ON OPTION MODEL
DD11-CK

REV	AWT REV STATUS	A-WT-7011563	5
REV	MODULE ECO HISTORY	B-WM-5411560-0-6	4
REV	ASSY/DRILLING HOLE LAYOUT	D-AH-5411560-0-5	3
REV	X-Y COORDINATE HOLE LOCATION	K-CO-5411560-0-4	2
I	ETCHED CIRCUIT BOARD	5011559	1

ETCH BOARD REV	DP1	DATE	6-22-75
DESIGNER	DATE	DATE	6/26/75
PROJ ENG	DATE	DATE	7-2-75
PROJ MGR	DATE	DATE	7-2-75
PROJ R	DATE	DATE	7-2-75
PROJ S	DATE	DATE	7-2-75
PROJ T	DATE	DATE	7-2-75
PROJ U	DATE	DATE	7-2-75
PROJ V	DATE	DATE	7-2-75
PROJ W	DATE	DATE	7-2-75
PROJ X	DATE	DATE	7-2-75
PROJ Y	DATE	DATE	7-2-75
PROJ Z	DATE	DATE	7-2-75

SEMICONDUCTOR CONVERSION CHART




TITLE	CIRCUIT SCHEMATIC
SIZE CODE	D-1A-7414331-0-0
SCALE	NONE
SHEET	1 OF 1

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DIGITAL EQUIP. CORP.

REV. A
 NUMBER DDII-C-1
 SIZE CODE K WL
 2

FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
DDII-C				
PARTS LIST				
DRN <i>G. Thullen</i>	DATE 7/2/75	 DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS TITLE: WIRE LIST DDII-C		
CHK'D <i>J. Nealey</i>	DATE 7/7/75			
ENG. <i>R. Barry</i>	DATE 7-30-75			
PROJ. ENG. <i>R. Barry</i>	DATE 7-2-75			
PROD. <i>R. Barry</i>	DATE 3/13/75			
NEXT HIGHER ASSEMBLY B-DD-DDII-C				
SCALE 1/1	SIZE CODE K WL	NUMBER DDII-C-1	REV. A	
SHEET 1 OF 1	DIST.			

REVISIONS	
CHANGE NO.	REV.
0011C-00001	A
<i>R. Barry 1-13-76</i>	

DD11-C,PO
RUN NAME

MND288.V23(23) 05/24/74
A/P FIN ORDER BAY -
NAME PIN ORDER

Q DRAW RV PG Y X Z REMARKS

12-MAR-75
LENGTH

8:43
EXCEPTIONS

PAGE 1
RUN
NUMBER

DD11-C,PO RUN NAME	MND288.V23(23) 05/24/74 A/P FIN ORDER BAY - NAME PIN ORDER	Q	DRAW	RV	PG	Y	X	Z	REMARKS	12-MAR-75 LENGTH	8:43 EXCEPTIONS	PAGE 1 RUN NUMBER
+15/+9V	C01U1 1-01	H						2		P	H TO WHERE	1
+15/+9V	C02U1 1-02	H						1		P	H TO WHERE	1
+15/+9V	C03U1 1-03	H						2		P	H TO WHERE	1
+15/+9V	C04U1 1-04										TO HERE	1
+15/+9V	1									8-2/8		1
+20V	A02U1 1-01	H						1		P	H TO WHERE	2
+20V	A02V1 1-02	H						2		P	H TO WHERE	2
+20V	A02V7 1-03	H						1		P	H TO WHERE	2
+20V	A03U1 1-04	H						2		P	H TO WHERE	2
+20V	A03V1 1-05	H						1		P	H TO WHERE	2
+20V	A03V2 1-06										TO HERE	2
+20V	1									12-4/8		2
+5V (1)	A01A2 1-01	H						2		P	H TO WHERE	3
+5V (1)	A02A2 1-02	H						1		P	H TO WHERE	3
+5V (1)	A03A2 1-03	H						2		P	H TO WHERE	3
+5V (1)	A04A2 1-04										TO HERE	3
+5V (1)	1									8-2/8		3
+5V (2)	B01A2 1-01	H						2		P	H TO WHERE	4
+5V (2)	B02A2 1-02	H						1		P	H TO WHERE	4
+5V (2)	B03A2 1-03	H						2		P	H TO WHERE	4
+5V (2)	B04A2 1-04										TO HERE	4
+5V (2)	1									8-2/8		4
+5V (3)	C01A2 1-01	H						2		P	H TO WHERE	5
+5V (3)	C02A2 1-02	H						1		P	H TO WHERE	5
+5V (3)	C03A2 1-03	H						2		P	H TO WHERE	5
+5V (3)	C04A2 1-04										TO HERE	5
+5V (3)	1									8-2/8		5
+5V (4)	D01A2 1-01	H						2		P	H TO WHERE	6
+5V (4)	D02A2 1-02	H						1		P	H TO WHERE	6
+5V (4)	D03A2 1-03	H						2		P	H TO WHERE	6
+5V (4)	D04A2 1-04										TO HERE	6
+5V (4)	1									8-2/8		6
+5V (5)	E01A2 1-01	H						2		P	H TO WHERE	7
+5V (5)	E02A2 1-02	H						1		P	H TO WHERE	7
+5V (5)	E03A2 1-03	H						2		P	H TO WHERE	7
+5V (5)	E04A2 1-04										TO HERE	7
+5V (5)	1									8-2/8		7

DO11-C.P.W RUN NAME	INQ288.V23(23) 05/24/74 A/P FIN ORDER BAY NAME ORDER	Q	DRAW BY PG Y	X	Z	REMARKS	12-MAR-75 LENGTH	8143 EXCEPTIONS	PAGE 2 RUN NUMBER
+5V (6)	F01A2 1-01	H			2		P	H TO WHERE	1
+5V (6)	F02A2 1-02	H			1		P	H TO WHERE	2
+5V (6)	F03A2 1-03	H			3		P	H TO WHERE	3
+5V (6)	F04A2 1-04							0-2/0	4
-15V	C01B2 1-01	H			3		P	H TO WHERE	5
-15V	C02B2 1-02	H			1		P	H TO WHERE	6
-15V	C03B2 1-03	H			2		P	H TO WHERE	7
-15V	C04B2 1-04	H			1		P	H TO WHERE	8
-15V	D04B2 1-05	H			1		P	H TO WHERE	9
-15V	D04B2 1-06	H			1		P	H TO WHERE	10
-15V	D04B2 1-07	H			3		P	H TO WHERE	11
-15V	D04B2 1-08	H			1		P	H TO WHERE	12
-15V	D04B2 1-09	H			2		P	H TO WHERE	13
-15V	E01B2 1-10	H			1		P	H TO WHERE	14
-15V	E01B2 1-11	H			2		P	H TO WHERE	15
-15V	E01B2 1-12	H			1		P	H TO WHERE	16
-15V	E01B2 1-13	H			2		P	H TO WHERE	17
-15V	F01B2 1-14	H			1		P	H TO WHERE	18
-15V	F01B2 1-15	H			2		P	H TO WHERE	19
-15V	F01B2 1-16	H			1		P	H TO WHERE	20
-5V	G02V2 1-01	H			1		P	47-0/0	21
-5V	G03V2 1-02							H TO WHERE	22
-5V	G03V2 1-03							H TO WHERE	23
A 5G IN	D01U2 1-01				1			2-0/0	24
A 5G IN	F01B1 1-02				1			5-0/0	25
A 5G OUT	D01V2 1-01				1			5-0/0	26
A 5G OUT	F01A1 1-02				1			5-0/0	27
A 5G OUT	D01U2 1-01				1			11-4/0	28
A 5G OUT	F01B1 1-02				2				29
A 5G OUT	F01U2 1-03				1				30
A 1V	D01K1 1-01				1			5-2/0	31
A 1V	F01N1 1-02				1				32
A 1V	F01N1 1-03				1				33

DO11-C.P.W RUN NAME	INQ288.V23(23) 05/24/74 A/P FIN ORDER BAY NAME ORDER	Q	DRAW BY PG Y	X	Z	REMARKS	12-MAR-75 LENGTH	8143 EXCEPTIONS	PAGE 3 RUN NUMBER
A 1V 1	D01U1 1-01				1				15
A 1V 2	F01U1 1-02				1			0-2/0	16
A 1V 3	F01U1 1-03				1			0-2/0	17
A 1V 4	C01U1 1-01				1			10-4/0	18
A 1V 5	F01U2 1-02				1			0-4/0	19
A 1V 6	F01U2 1-03				1			0-4/0	20
A 1V 7	D01U1 1-01				1			10-0/0	21
A 1V 8	F01V1 1-02				1			3-2/0	22
A 1V 9	F01U2 1-03				1			5-0/0	23
A 1V 10	D01K1 1-01				1			0-0/0	24
A 1V 11	F01U2 1-02				1			0-2/0	25
A 1V 12	F01U2 1-03				1			0-0/0	26
A 1V 13	D01U1 1-01				1			0-0/0	27
A 1V 14	F01U2 1-02				1			0-0/0	28
A 1V 15	F01U2 1-03				1			0-0/0	29
A 1V 16	D01U1 1-01				1			2-0/0	30
A 1V 17	F01U1 1-02				1				31
A 1V 18	F01U1 1-03				1				32
A 1V 19	D01U1 1-01				1				33
A 1V 20	F01U1 1-02				1				34
A 1V 21	F01U1 1-03				1				35
A 1V 22	D01U1 1-01				1				36
A 1V 23	F01U1 1-02				1				37
A 1V 24	F01U1 1-03				1				38
A 1V 25	D01U1 1-01				1				39
A 1V 26	F01U1 1-02				1				40
A 1V 27	F01U1 1-03				1				41
A 1V 28	D01U1 1-01				1				42
A 1V 29	F01U1 1-02				1				43
A 1V 30	F01U1 1-03				1				44
A 1V 31	D01U1 1-01				1				45
A 1V 32	F01U1 1-02				1				46
A 1V 33	F01U1 1-03				1				47

DOLLAR CODE RUN NAME	HM0288 V21(23) #572474			Q	DRAW	RV	PG	Y	X	Z	REMARKS	12-MAR-75		B143		PAGE 4	
	A/P	PIN	ORDER									LENGTH	EXCEPTIONS	LENGTH	EXCEPTIONS	RUN	NUMBER
AC LO L	021F1	1-01	H	2								P		HAND WIRE TO HERE			26
AC LO L	022F1	1-02	H	1								P		HAND WIRE TO HERE			26
AC LO L	023F1	1-03	H	2								P		HAND WIRE TO HERE			26
AC LO L	024F1	1-04	H	1								P		HAND WIRE TO HERE			26
AC LO L	025F1	1-05	H	2								P		HAND WIRE TO HERE			26
AC LO L	026F1	1-06	H	1								P		HAND WIRE TO HERE			26
AC LO L	027F1	1-07	H	2								P		HAND WIRE TO HERE			26
AC LO L	028F1	1-08	H	1								P		HAND WIRE TO HERE			26
B 85 IY	062U2	1-01		1										26-6/8			27
B 85 IY	062U1	1-02		1										3-6/8			27
B 85 IY	062U2	1-01		1										3-6/8			28
B 85 IY	062U1	1-02		1										3-6/8			28
B 85 IY	062U2	1-01		2										11-4/8			28
B 85 IY	062U1	1-02		1										5-2/8			29
B 85 IY	062U2	1-01		1										5-2/8			29
B 85 IY	062U1	1-02		1										9-2/8			31
B 85 IY	062U2	1-01		1										9-2/8			31
B 85 IY	062U1	1-02		1										10-4/8			32
B 85 IY	062U2	1-01		1										10-4/8			32
B 85 IY	062U1	1-02		1										0-4/8			33
B 85 IY	062U2	1-01		1										0-4/8			33
B 85 IY	062U1	1-02		1										10-0/8			34
B 85 IY	062U2	1-01		1										10-0/8			34
B 85 IY	062U1	1-02		1										3-2/8			35
B 85 IY	062U2	1-01		1										3-2/8			35

DOLLAR CODE RUN NAME	HM0288 V21(23) #572474			Q	DRAW	RV	PG	Y	X	Z	REMARKS	12-MAR-75		B143		PAGE 5	
	A/P	PIN	ORDER									LENGTH	EXCEPTIONS	LENGTH	EXCEPTIONS	RUN	NUMBER
B 85 IY	062U1	1-01		1										5-6/8			36
B 85 IY	062U2	1-02		1										5-6/8			36
B 85 IY	062U1	1-01		1										5-6/8			37
B 85 IY	062U2	1-02		1										5-6/8			37
B 85 IY	062U1	1-01		1										5-2/8			38
B 85 IY	062U2	1-02		1										5-2/8			38
B 85 IY	062U1	1-01		1										6-2/8			39
B 85 IY	062U2	1-02		1										6-2/8			39
B 85 IY	062U1	1-01		1										6-0/8			40
B 85 IY	062U2	1-02		1										6-0/8			40
B 85 IY	062U1	1-01		1										2-6/8			41
B 85 IY	062U2	1-02		1										2-6/8			41
B 85 IY	062U1	1-01	H	1								P		H TO WHERE TO HERE			42
B 85 IY	062U2	1-02	H	1								P		H TO WHERE TO HERE			42
B 85 IY	062U1	1-01	H	1								P		H TO WHERE TO HERE			43
B 85 IY	062U2	1-02	H	1								P		H TO WHERE TO HERE			43
B 85 IY	062U1	1-01	H	1								P		H TO WHERE TO HERE			44
B 85 IY	062U2	1-02	H	1								P		H TO WHERE TO HERE			44
B 85 IY	062U1	1-01	H	2								P		HAND WIRE TO HERE			45
B 85 IY	062U2	1-02	H	1								P		HAND WIRE TO HERE			45
B 85 IY	062U1	1-01	H	2								P		HAND WIRE TO HERE			45
B 85 IY	062U2	1-02	H	1								P		HAND WIRE TO HERE			45
B 85 IY	062U1	1-01	H	2								P		HAND WIRE TO HERE			45
B 85 IY	062U2	1-02	H	1								P		HAND WIRE TO HERE			45
B 85 IY	062U1	1-01	H	2								P		HAND WIRE TO HERE			45
B 85 IY	062U2	1-02	H	1								P		HAND WIRE TO HERE			45

DC11-C-PM RUN NAME	APP NAME	FIN NAME	ORDER PIN	DATE MM/YY	Q	ORAN	RY	PG	Y	X	Z	REMARKS	12-MAR-75 LENGTH	9143 EXCEPTIONS	PAGE 6 RUN NUMBER
861 A	D01B2		1-01	1-01							1				44
861 B	D01B2		1-02	1-02									8-0/8		45
861 C															46
861 D															47
861 E	D01T2		1-01	1-01	H						1			H TO WHERE TO HERE	47
861 F	D02S2		1-02	1-02									2-0/8		47
861 G															48
861 H	D02T2		1-01	1-01	H						1			H TO WHERE TO HERE	48
861 I	D03S2		1-02	1-02									2-0/8		48
861 J															49
861 K	D03T2		1-01	1-01	H						1			H TO WHERE TO HERE	49
861 L	D04S2		1-02	1-02									2-0/8		49
861 M															50
861 N	D04T2		1-01	1-01	H						1			H TO WHERE TO HERE	50
861 O	D05S2		1-02	1-02									9-0/8		50
861 P															51
861 Q	D05T2		1-01	1-01	H						1			H TO WHERE TO HERE	51
861 R	D06S2		1-02	1-02									9-0/8		51
861 S															52
861 T	D06T2		1-01	1-01	H						1			H TO WHERE TO HERE	52
861 U	D07S2		1-02	1-02									2-0/8		52
861 V															53
861 W	D07T2		1-01	1-01	H						1			H TO WHERE TO HERE	53
861 X	D08S2		1-02	1-02									2-0/8		53
861 Y															54
861 Z	D08T2		1-01	1-01	H						1			H TO WHERE TO HERE	54
862 A	D09S2		1-02	1-02									2-0/8		54
862 B															55
862 C	D09T2		1-01	1-01	H						1			H TO WHERE TO HERE	55
862 D	D10S2		1-02	1-02									9-2/8		55
862 E															56
862 F	D10T2		1-01	1-01	H						1			H TO WHERE TO HERE	56
862 G	D11S2		1-02	1-02									9-0/8		56
862 H															57
862 I	D11T2		1-01	1-01	H						1			H TO WHERE TO HERE	57
862 J	D12S2		1-02	1-02									2-0/8		57
862 K															58
862 L	D12T2		1-01	1-01	H						1			H TO WHERE TO HERE	58
862 M	D13S2		1-02	1-02									2-0/8		58
862 N															59
862 O	D13T2		1-01	1-01	H						1			H TO WHERE TO HERE	59
862 P	D14S2		1-02	1-02									2-0/8		59
862 Q															60
862 R	D14T2		1-01	1-01	H						1			H TO WHERE TO HERE	60
862 S	D15S2		1-02	1-02									9-2/8		60
862 T															61
862 U	D15T2		1-01	1-01	H						1			H TO WHERE TO HERE	61
862 V	D16S2		1-02	1-02									9-2/8		61
862 W															62
862 X	D16T2		1-01	1-01	H						1			H TO WHERE TO HERE	62
862 Y	D17S2		1-02	1-02									2-0/8		62
862 Z															63
863 A	D17T2		1-01	1-01	H						1			H TO WHERE TO HERE	63
863 B	D18S2		1-02	1-02									2-0/8		63
863 C															64
863 D	D18T2		1-01	1-01	H						1			H TO WHERE TO HERE	64
863 E	D19S2		1-02	1-02									2-0/8		64
863 F															65
863 G	D19T2		1-01	1-01	H						1			H TO WHERE TO HERE	65
863 H	D20S2		1-02	1-02									9-4/8		65
863 I															66
863 J	D20T2		1-01	1-01	H						2			HAND WIRE TO HERE	66
863 K	D21S2		1-02	1-02							1			HAND WIRE TO HERE	66
863 L															67
863 M	D21T2		1-01	1-01	H						2			HAND WIRE TO HERE	67
863 N	D22S2		1-02	1-02											68
863 O															69
863 P	D22T2		1-01	1-01	H						1			HAND WIRE TO HERE	69
863 Q	D23S2		1-02	1-02											70
863 R															71
863 S	D23T2		1-01	1-01	H						2			HAND WIRE TO HERE	71
863 T	D24S2		1-02	1-02									10-2/8		71
863 U															72

DC11-C-PM RUN NAME	APP NAME	FIN NAME	ORDER PIN	DATE MM/YY	Q	ORAN	RY	PG	Y	X	Z	REMARKS	12-MAR-75 LENGTH	9143 EXCEPTIONS	PAGE 7 RUN NUMBER
864 A	D02C2		1-01	1-01							1				50
864 B	D03C2		1-02	1-02									2-0/8		50
864 C															51
864 D	D03C2		1-01	1-01	H						1			H TO WHERE TO HERE	51
864 E	D04C2		1-02	1-02									2-0/8		51
864 F															52
864 G	D04C2		1-01	1-01	H						1			H TO WHERE TO HERE	52
864 H	D05C2		1-02	1-02									9-2/8		52
864 I															53
864 J	D05C2		1-01	1-01	H						1			H TO WHERE TO HERE	53
864 K	D06C2		1-02	1-02									9-2/8		53
864 L															54
864 M	D06C2		1-01	1-01	H						1			H TO WHERE TO HERE	54
864 N	D07C2		1-02	1-02									9-2/8		54
864 O															55
864 P	D07C2		1-01	1-01	H						1			H TO WHERE TO HERE	55
864 Q	D08C2		1-02	1-02									9-2/8		55
864 R															56
864 S	D08C2		1-01	1-01	H						1			H TO WHERE TO HERE	56
864 T	D09C2		1-02	1-02									9-4/8		56
864 U															57
864 V	D09C2		1-01	1-01	H						2			HAND WIRE TO HERE	57
864 W	D10C2		1-02	1-02							1			HAND WIRE TO HERE	57
864 X															58
864 Y	D10C2		1-01	1-01	H						2			HAND WIRE TO HERE	58
864 Z	D11C2		1-02	1-02											59
865 A															60
865 B	D11C2		1-01	1-01	H						1			HAND WIRE TO HERE	60
865 C	D12C2		1-02	1-02											61
865 D															62
865 E	D12C2		1-01	1-01	H						1			HAND WIRE TO HERE	62
865 F	D13C2		1-02	1-02											63
865 G															64
865 H	D13C2		1-01	1-01	H						2			HAND WIRE TO HERE	64
865 I	D14C2		1-02	1-02									10-2/8		64
865 J															65
865 K	D14C2		1-01	1-01	H						1			HAND WIRE TO HERE	65
865 L	D15C2		1-02	1-02											66
865 M															67
865 N	D15C2		1-01	1-01	H						2			HAND WIRE TO HERE	67
865 O	D16C2		1-02	1-02											68
865 P															69
865 Q	D16C2		1-01	1-01	H						1			HAND WIRE TO HERE	69
865 R	D17C2		1-02	1-02											70
865 S															71
865 T	D17C2		1-01	1-01	H						2			HAND WIRE TO HERE	71
865 U	D18C2		1-02	1-02											72

DU11-C-400 RUN NAME	APD P/N NAME	ORDER PIN	BAY ORDER	Q	DRAW	RV	PG	Y	X	Z	REMARKS	12-MAR-75 LENGTH	W143 EXCEPTIONS	PAGE 10 RUN NUMBER
BUS 405 L	B01K1		1-01	H						2		P	HAND WIRE TO HERE	75
BUS 405 L	B02K1		1-02	H						1		P	HAND WIRE TO HERE	75
BUS 405 L	B03V1		1-03	H						2		P	HAND WIRE TO HERE	75
BUS 405 L	B04V1		1-04	H						1		P	HAND WIRE TO HERE	75
BUS 405 L	B05V1		1-05	H						2		P	HAND WIRE TO HERE	75
BUS 405 L	B06V1		1-06	H						2		P	HAND WIRE TO HERE	75
BUS 405 L	B07V1		1-07	H						2		P	HAND WIRE TO HERE	75
BUS 405 L	B08V1		1-08	H						2		P	HAND WIRE TO HERE	75
BUS 406 L	B01L2		1-01	H						2		P	HAND WIRE TO HERE	76
BUS 406 L	B02L2		1-02	H						1		P	HAND WIRE TO HERE	76
BUS 406 L	B03L1		1-03	H						2		P	HAND WIRE TO HERE	76
BUS 406 L	B04L1		1-04	H						1		P	HAND WIRE TO HERE	76
BUS 406 L	B05L1		1-05	H						2		P	HAND WIRE TO HERE	76
BUS 406 L	B06L1		1-06	H						1		P	HAND WIRE TO HERE	76
BUS 406 L	B07L1		1-07	H						2		P	HAND WIRE TO HERE	76
BUS 406 L	B08L1		1-08	H						2		P	HAND WIRE TO HERE	76
BUS 407 L	B01L1		1-01	H						2		P	HAND WIRE TO HERE	77
BUS 407 L	B02L1		1-02	H						1		P	HAND WIRE TO HERE	77
BUS 407 L	B03L1		1-03	H						2		P	HAND WIRE TO HERE	77
BUS 407 L	B04L1		1-04	H						2		P	HAND WIRE TO HERE	77
BUS 407 L	B05L1		1-05	H						1		P	HAND WIRE TO HERE	77
BUS 407 L	B06L1		1-06	H						2		P	HAND WIRE TO HERE	77
BUS 407 L	B07L1		1-07	H						2		P	HAND WIRE TO HERE	77
BUS 407 L	B08L1		1-08	H						2		P	HAND WIRE TO HERE	77
BUS 408 L	B01L2		1-01	H						2		P	HAND WIRE TO HERE	78
BUS 408 L	B02L2		1-02	H						1		P	HAND WIRE TO HERE	78
BUS 408 L	B03L1		1-03	H						2		P	HAND WIRE TO HERE	78
BUS 408 L	B04L1		1-04	H						1		P	HAND WIRE TO HERE	78
BUS 408 L	B05L1		1-05	H						2		P	HAND WIRE TO HERE	78
BUS 408 L	B06L1		1-06	H						1		P	HAND WIRE TO HERE	78
BUS 408 L	B07L1		1-07	H						2		P	HAND WIRE TO HERE	78
BUS 408 L	B08L1		1-08	H						2		P	HAND WIRE TO HERE	78

DU11-C-400 RUN NAME	APD P/N NAME	ORDER PIN	BAY ORDER	Q	DRAW	RV	PG	Y	X	Z	REMARKS	12-MAR-75 LENGTH	W143 EXCEPTIONS	PAGE 11 RUN NUMBER
BUS 409 L	B01P1		1-01	H						2		P	HAND WIRE TO HERE	79
BUS 409 L	B02P1		1-02	H						2		P	HAND WIRE TO HERE	79
BUS 409 L	B03P1		1-03	H						1		P	HAND WIRE TO HERE	79
BUS 409 L	B04P1		1-04	H						2		P	HAND WIRE TO HERE	79
BUS 409 L	B05P1		1-05	H						1		P	HAND WIRE TO HERE	79
BUS 409 L	B06P1		1-06	H						2		P	HAND WIRE TO HERE	79
BUS 409 L	B07P1		1-07	H						2		P	HAND WIRE TO HERE	79
BUS 409 L	B08P1		1-08	H						2		P	HAND WIRE TO HERE	79
BUS 410 L	B01L2		1-01	H						2		P	HAND WIRE TO HERE	80
BUS 410 L	B02L2		1-02	H						1		P	HAND WIRE TO HERE	80
BUS 410 L	B03L1		1-03	H						2		P	HAND WIRE TO HERE	80
BUS 410 L	B04L1		1-04	H						1		P	HAND WIRE TO HERE	80
BUS 410 L	B05L1		1-05	H						2		P	HAND WIRE TO HERE	80
BUS 410 L	B06L1		1-06	H						1		P	HAND WIRE TO HERE	80
BUS 410 L	B07L1		1-07	H						2		P	HAND WIRE TO HERE	80
BUS 410 L	B08L1		1-08	H						2		P	HAND WIRE TO HERE	80
BUS 411 L	B01L1		1-01	H						2		P	HAND WIRE TO HERE	81
BUS 411 L	B02L1		1-02	H						1		P	HAND WIRE TO HERE	81
BUS 411 L	B03L1		1-03	H						2		P	HAND WIRE TO HERE	81
BUS 411 L	B04L1		1-04	H						1		P	HAND WIRE TO HERE	81
BUS 411 L	B05L1		1-05	H						2		P	HAND WIRE TO HERE	81
BUS 411 L	B06L1		1-06	H						1		P	HAND WIRE TO HERE	81
BUS 411 L	B07L1		1-07	H						2		P	HAND WIRE TO HERE	81
BUS 411 L	B08L1		1-08	H						2		P	HAND WIRE TO HERE	81
BUS 412 L	B01P2		1-01	H						2		P	HAND WIRE TO HERE	82
BUS 412 L	B02P2		1-02	H						1		P	HAND WIRE TO HERE	82
BUS 412 L	B03P1		1-03	H						2		P	HAND WIRE TO HERE	82
BUS 412 L	B04P1		1-04	H						1		P	HAND WIRE TO HERE	82
BUS 412 L	B05P1		1-05	H						2		P	HAND WIRE TO HERE	82
BUS 412 L	B06P1		1-06	H						1		P	HAND WIRE TO HERE	82
BUS 412 L	B07P1		1-07	H						2		P	HAND WIRE TO HERE	82
BUS 412 L	B08P2		1-08	H						2		P	HAND WIRE TO HERE	82

DD11-C480 PUN NAME	HD228.V23(23) 05/24/74 A/P PIN ORDER DAY - NAME DIM ORDER	0	DRAM RV PG Y	X	Z	REMARKS	12-MAR-75 LENGTH	U143 EXCEPTIONS	PAGE 12 NUM. NUMBER
BUS A13 L	B01P1	1-01 *	H		2			HAND WIRE	93
BUS A13 L	B02P1	1-02 *	H		1			TO HERE	93
BUS A13 L	B03P1	1-03 *	H		2			HAND WIRE	93
BUS A13 L	B04P1	1-04 *	H		1			HAND WIRE	93
BUS A13 L	B05P1	1-05 *	H		2			HAND WIRE	93
BUS A13 L	B06P1	1-06 *	H		1			TO HERE	93
BUS A13 L	B07P1	1-07 *	H		2			HAND WIRE	93
BUS A13 L	B08P1	1-08 *	H		1			TO HERE	93
BUS A14 L	B01P2	1-01 *	H		2		31-6/0	HAND WIRE	94
BUS A14 L	B02P2	1-02 *	H		1			TO HERE	94
BUS A14 L	B03P2	1-03 *	H		2			HAND WIRE	94
BUS A14 L	B04P2	1-04 *	H		1			HAND WIRE	94
BUS A14 L	B05P2	1-05 *	H		2			HAND WIRE	94
BUS A14 L	B06P2	1-06 *	H		1			TO HERE	94
BUS A14 L	B07P2	1-07 *	H		2			HAND WIRE	94
BUS A14 L	B08P2	1-08 *	H		1			TO HERE	94
BUS A15 L	B01P1	1-01 *	H		2			HAND WIRE	95
BUS A15 L	B02P1	1-02 *	H		1			TO HERE	95
BUS A15 L	B03P1	1-03 *	H		2			HAND WIRE	95
BUS A15 L	B04P1	1-04 *	H		1			HAND WIRE	95
BUS A15 L	B05P1	1-05 *	H		2			HAND WIRE	95
BUS A15 L	B06P1	1-06 *	H		1			TO HERE	95
BUS A15 L	B07P1	1-07 *	H		2			HAND WIRE	95
BUS A15 L	B08P1	1-08 *	H		1			TO HERE	95
BUS A16 L	B01S2	1-01 *	H		2		32-0/0	HAND WIRE	96
BUS A16 L	B02S2	1-02 *	H		1			TO HERE	96
BUS A16 L	B03S2	1-03 *	H		2			HAND WIRE	96
BUS A16 L	B04S2	1-04 *	H		1			HAND WIRE	96
BUS A16 L	B05S2	1-05 *	H		2			HAND WIRE	96
BUS A16 L	B06S2	1-06 *	H		1			TO HERE	96
BUS A16 L	B07S2	1-07 *	H		2			HAND WIRE	96
BUS A16 L	B08S2	1-08 *	H		1			TO HERE	96

DD11-C480 PUN NAME	HD228.V23(23) 05/24/74 A/P PIN ORDER DAY - NAME DIM ORDER	0	DRAM RV PG Y	X	Z	REMARKS	12-MAR-75 LENGTH	U143 EXCEPTIONS	PAGE 13 NUM. NUMBER
BUS A17 L	B01S1	1-01 *	H		2			HAND WIRE	97
BUS A17 L	B02S1	1-02 *	H		1			TO HERE	97
BUS A17 L	B03S1	1-03 *	H		2			HAND WIRE	97
BUS A17 L	B04S1	1-04 *	H		1			HAND WIRE	97
BUS A17 L	B05S1	1-05 *	H		2			HAND WIRE	97
BUS A17 L	B06S1	1-06 *	H		1			TO HERE	97
BUS A17 L	B07S1	1-07 *	H		2			HAND WIRE	97
BUS A17 L	B08S1	1-08 *	H		1			TO HERE	97
BUS A01 L	A01C1	1-01 *	H		2		31-6/0	HAND WIRE	98
BUS A01 L	A02C1	1-02 *	H		1			TO HERE	98
BUS A01 L	A03C1	1-03 *	H		2			HAND WIRE	98
BUS A01 L	A04C1	1-04 *	H		1			HAND WIRE	98
BUS A01 L	A05C1	1-05 *	H		2			HAND WIRE	98
BUS A01 L	A06C1	1-06 *	H		1			TO HERE	98
BUS A01 L	A07C1	1-07 *	H		2			HAND WIRE	98
BUS A01 L	A08C1	1-08 *	H		1			TO HERE	98
BUS A01 L	A01C2	1-01 *	H		2			HAND WIRE	99
BUS A01 L	A02C2	1-02 *	H		1			TO HERE	99
BUS A01 L	A03C2	1-03 *	H		2			HAND WIRE	99
BUS A01 L	A04C2	1-04 *	H		1			HAND WIRE	99
BUS A01 L	A05C2	1-05 *	H		2			HAND WIRE	99
BUS A01 L	A06C2	1-06 *	H		1			TO HERE	99
BUS A01 L	A07C2	1-07 *	H		2			HAND WIRE	99
BUS A01 L	A08C2	1-08 *	H		1			TO HERE	99
BUS A02 L	B01S2	1-01 *	H		2		31-6/0	H TO WHERE	98
BUS A02 L	B02S2	1-02 *	H		1			H TO WHERE	98
BUS A02 L	B03S2	1-03 *	H		2			H TO WHERE	98
BUS A02 L	B04S2	1-04 *	H		1			TO HERE	98
BUS A02 L	B05S2	1-05 *	H		2		8-2/0	HAND WIRE	91
BUS A02 L	B06S2	1-06 *	H		1			TO HERE	91
BUS A02 L	B07S2	1-07 *	H		2			HAND WIRE	91
BUS A02 L	B08S2	1-08 *	H		1			HAND WIRE	91
BUS A02 L	B09S2	1-09 *	H		2			TO HERE	91
BUS A02 L	B10S2	1-10 *	H		1			HAND WIRE	91

NOI1=C:PM MUN NAME	HW288.V21(23) 05/24/74 A/P PIN ORDER NAME	Q DAY ORDER	Q DRAW RV PG Y	X	Z	REMARKS	12-MAR-75 LENGTH	W143 EXCEPTIONS	PAGE 14 MUN NUMBER
BUS 002 L JWP	C0209	1-01			1				92
BUS 002 L JWP	F0202	1-02			1		8-6/8		92
BUS 022 L JWP									92
BUS 003 L	F0111	1-01	H		2			X TO WHERE	93
BUS 003 L	F0211	1-02	H		1			H TO WHERE	93
BUS 003 L	F0311	1-03	H		2			H TO WHERE	93
BUS 003 L	F0411	1-04					8-2/8		93
BUS 003 L									
BUS 003 L	A0102	1-01	H		2			HAND WIRE	94
BUS 003 L	A0202	1-02			1			TO HERE	94
BUS 003 L	C0112	1-03	H		2			HAND WIRE	94
BUS 003 L	C0212	1-04	H		2			HAND WIRE	94
BUS 003 L	C0312	1-05	H		2			HAND WIRE	94
BUS 003 L	C0412	1-06	H		2			HAND WIRE	94
BUS 003 L	A0103	1-07	H		1			TO HERE	94
BUS 003 L	A0203	1-08			2		12-2/8		94
BUS 003 L									
BUS 003 L JWP	C0212	1-01			1				95
BUS 003 L JWP	F0211	1-02			1		9-6/8		95
BUS 003 L JWP									
BUS 004 L	F0102	1-01	H		2			H TO WHERE	96
BUS 004 L	F0202	1-02	H		1			H TO WHERE	96
BUS 004 L	F0302	1-03	H		2			H TO WHERE	96
BUS 004 L	F0402	1-04					8-2/8		96
BUS 004 L									
BUS 004 L	A0101	1-01	H		2			HAND WIRE	97
BUS 004 L	A0201	1-02			1			TO HERE	97
BUS 004 L	C0102	1-03	H		2			HAND WIRE	97
BUS 004 L	C0202	1-04	H		2			HAND WIRE	97
BUS 004 L	C0302	1-05	H		2			HAND WIRE	97
BUS 004 L	C0402	1-06	H		2			HAND WIRE	97
BUS 004 L	A0101	1-07	H		1			TO HERE	97
BUS 004 L	A0201	1-08			2		11-0/8		97
BUS 004 L									
BUS 005 L JWP	C0202	1-01			1				98
BUS 005 L JWP	F0202	1-02			1		10-2/8		98
BUS 005 L JWP									

NOI1=C:PM MUN NAME	HW288.V21(23) 05/24/74 A/P PIN ORDER NAME	Q DAY ORDER	Q DRAW RV PG Y	X	Z	REMARKS	12-MAR-75 LENGTH	W143 EXCEPTIONS	PAGE 15 MUN NUMBER
BUS 005 L	F0101	1-01	H		2			H TO WHERE	99
BUS 005 L	F0201	1-02	H		1			H TO WHERE	99
BUS 005 L	F0301	1-03	H		2			H TO WHERE	99
BUS 005 L	F0401	1-04					8-2/8		99
BUS 005 L									
BUS 005 L	A0102	1-01	H		2			HAND WIRE	100
BUS 005 L	A0202	1-02			1			TO HERE	100
BUS 005 L	C0102	1-03	H		2			HAND WIRE	100
BUS 005 L	C0202	1-04	H		2			HAND WIRE	100
BUS 005 L	C0302	1-05	H		2			HAND WIRE	100
BUS 005 L	C0402	1-06	H		2			HAND WIRE	100
BUS 005 L	A0102	1-07	H		1			TO HERE	100
BUS 005 L	A0202	1-08			2		11-2/8		100
BUS 005 L									
BUS 005 L JWP	C0202	1-01			1				101
BUS 005 L JWP	F0201	1-02			1		9-4/8		101
BUS 005 L JWP									
BUS 006 L	F0102	1-01	H		2			H TO WHERE	102
BUS 006 L	F0202	1-02	H		1			H TO WHERE	102
BUS 006 L	F0302	1-03	H		2			H TO WHERE	102
BUS 006 L	F0402	1-04					8-2/8		102
BUS 006 L									
BUS 006 L	A0101	1-01	H		2			HAND WIRE	103
BUS 006 L	A0201	1-02			1			TO HERE	103
BUS 006 L	C0102	1-03	H		2			HAND WIRE	103
BUS 006 L	C0202	1-04	H		2			HAND WIRE	103
BUS 006 L	C0302	1-05	H		2			HAND WIRE	103
BUS 006 L	C0402	1-06	H		2			HAND WIRE	103
BUS 006 L	A0101	1-07	H		1			TO HERE	103
BUS 006 L	A0201	1-08			2		12-4/8		103
BUS 006 L									
BUS 006 L JWP	C0202	1-01			1				104
BUS 006 L JWP	F0202	1-02			1		8-6/8		104
BUS 006 L JWP									
BUS 007 L	F0101	1-01	H		2			H TO WHERE	105
BUS 007 L	F0201	1-02	H		1			H TO WHERE	105
BUS 007 L	F0301	1-03	H		2			H TO WHERE	105
BUS 007 L	F0401	1-04					9-2/8		105
BUS 007 L									

0011-C-PP RUN NAME	000298-V2(22) 05/24/74 A/P PIN ORDER PIN	Q DRAW	RV	PG	Y	X	Z	REMARKS	12-MAR-75 LENGTH	0143 EXCEPTIONS	PAGE 22 RUN NUMBER
F0142	F0142	1-01									154
F0142	F0181	1-02									154
F0142		1							1-0/4		154
F01P2	F01P2	1-01									155
F01P2	F0158	1-02									155
F01P2		1							1-4/2		155
F0202	F0202	1-01									156
F0202	F0202	1-02									156
F0202	F0202	1-03							1-2/4		156
F0202		1									156
F0251	F0251	1-01									157
F0251	F0251	1-02							4-2/0		157
F0251		1									157
F0212	F0212	1-01									158
F0212	F0212	1-02							3-4/0		158
F0212		1									158
F0272	F0272	1-01									159
F0272	F0272	1-02							1-0/0		159
F0272		1									159
F0282	F0282	1-01									160
F0282	F0258	1-02							2-4/4		160
F0282		1									160
F0302	F0302	1-01									161
F0302	F0302	1-02									161
F0302	F0302	1-03							0-2/0		161
F0302		1									161
F0351	F0351	1-01									162
F0351	F0351	1-02							4-2/4		162
F0351		1									162
F0312	F0312	1-01									163
F0312	F0312	1-02									163
F0312		1							3-0/0		163
F0342	F0342	1-01									164
F0342	F0351	1-02							3-0/0		164
F0342		1									164

0011-C-PP RUN NAME	000298-V2(22) 05/24/74 A/P PIN ORDER PIN	Q DRAW	RV	PG	Y	X	Z	REMARKS	12-MAR-75 LENGTH	0143 EXCEPTIONS	PAGE 22 RUN NUMBER
F03P2	F03P2	1-01									165
F03P2	F0352	1-02							2-4/4		165
F03P2		1									165
F0402	F0402	1-01									166
F0402	F0402	1-02									166
F0402	F0402	1-03							6-2/0		166
F0402		1									166
F0451	F0451	1-01									167
F0451	F0451	1-02							4-2/4		167
F0451		1									167
F0442	F0442	1-01									168
F0442	F0442	1-02							3-0/0		168
F0442		1									168
F0482	F0482	1-01									169
F0482	F0482	1-02							3-0/0		169
F0482		1									169
GND (21)	GND (21)	1-01									170
GND (21)	GND (21)	1-02							2-4/0		170
GND (21)		1									170
GND (21)	GND (21)	1-01									171
GND (21)	GND (21)	1-02									171
GND (21)	GND (21)	1-03									171
GND (21)	GND (21)	1-04									171
GND (21)	GND (21)	1-05									171
GND (21)	GND (21)	1-06									171
GND (21)	GND (21)	1-07									171
GND (21)	GND (21)	1-08									171
GND (21)		1							20-4/4		171
GND (21)	GND (21)	1-01									172
GND (21)	GND (21)	1-02									172
GND (21)	GND (21)	1-03									172
GND (21)	GND (21)	1-04									172
GND (21)	GND (21)	1-05									172
GND (21)	GND (21)	1-06									172
GND (21)	GND (21)	1-07									172
GND (21)	GND (21)	1-08									172
GND (21)		1							20-4/4		172

0011-C.P.V RUN NAME	NAME	ORDER	BAY	05/24/74	ORDER	O	DRAM	RV	PG	Y	X	Z	REMARKS	12-MAR-75 LENGTH	8563 EXCEPTIONS	PAGE 24 RUN NUMBER
GND (A1)	C01C2	1-01	H													
GND (A2)	C02C2	1-02	H													
GND (A3)	C03C2	1-03	H													
GND (A4)	C04C2	1-04	H													
GND (A5)	C05C2	1-05	H													
GND (A6)	C06C2	1-06	H													
GND (A7)	C07C2	1-07	H													
GND (A8)	C08C2	1-08	H													
GND (A9)	D01C2	1-01	H													
GND (A10)	D02C2	1-02	H													
GND (A11)	D03C2	1-03	H													
GND (A12)	D04C2	1-04	H													
GND (A13)	D05C2	1-05	H													
GND (A14)	D06C2	1-06	H													
GND (A15)	D07C2	1-07	H													
GND (A16)	D08C2	1-08	H													
GND (A17)	E01C2	1-01	H													
GND (A18)	E02C2	1-02	H													
GND (A19)	E03C2	1-03	H													
GND (A20)	E04C2	1-04	H													
GND (A21)	F01C2	1-01	H													
GND (A22)	F02C2	1-02	H													
GND (A23)	F03C2	1-03	H													
GND (A24)	F04C2	1-04	H													
GND (A25)	F05C2	1-05	H													
GND (A26)	F06C2	1-06	H													
GND (A27)	F07C2	1-07	H													
GND (A28)	F08C2	1-08	H													
GND (A29)	G01C2	1-01	H													
GND (A30)	G02C2	1-02	H													
GND (A31)	G03C2	1-03	H													
GND (A32)	G04C2	1-04	H													
GND (A33)	G05C2	1-05	H													
GND (A34)	G06C2	1-06	H													
GND (A35)	G07C2	1-07	H													
GND (A36)	G08C2	1-08	H													
GND (A37)	H01A1	1-01	H													
GND (A38)	H02A1	1-02	H													
GND (A39)	H03A1	1-03	H													
GND (A40)	H04A1	1-04	H													

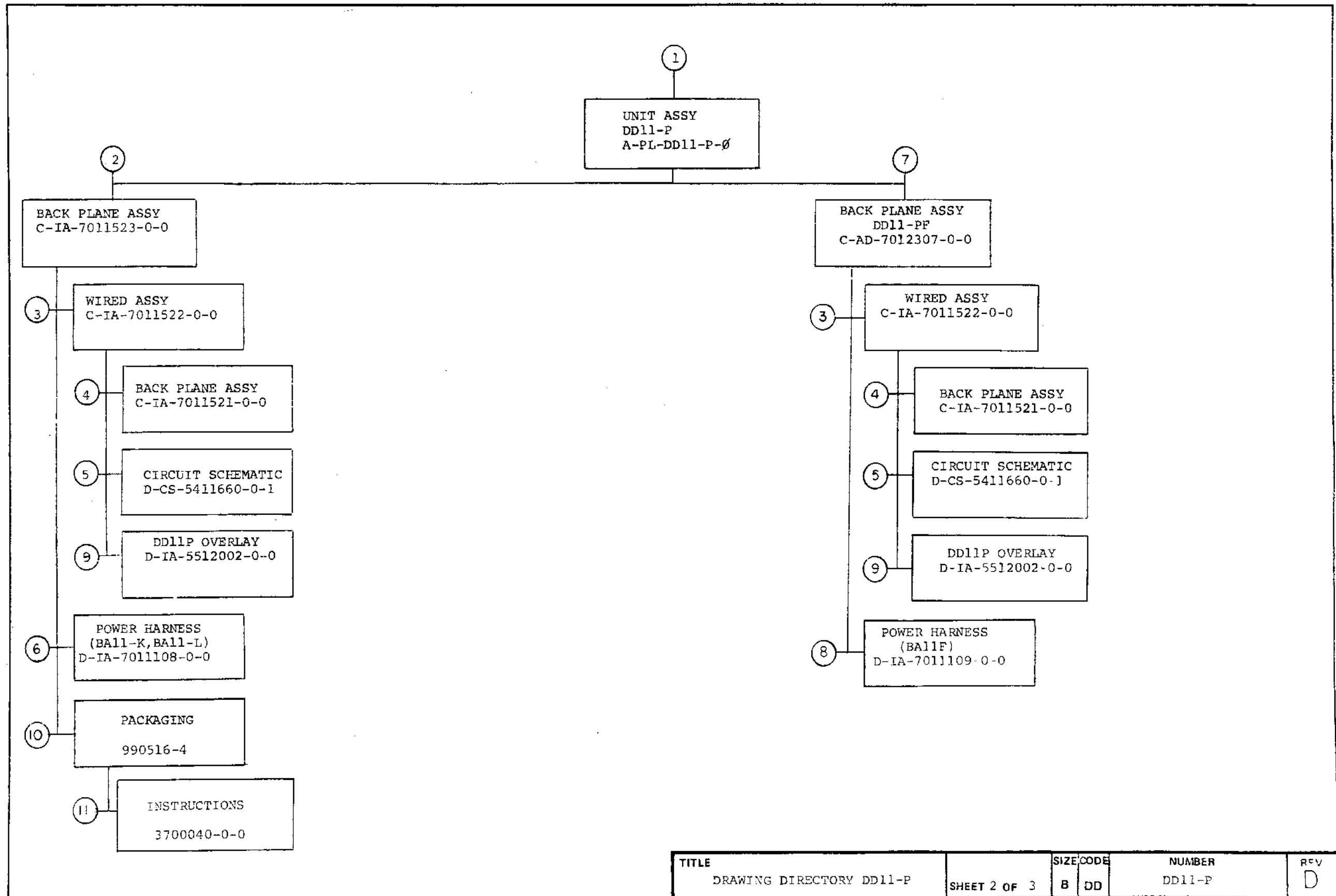
0011-C.P.V RUN NAME	NAME	ORDER	BAY	05/24/74	ORDER	O	DRAM	RV	PG	Y	X	Z	REMARKS	12-MAR-75 LENGTH	8563 EXCEPTIONS	PAGE 25 RUN NUMBER
GND (A41)	A01B2	1-01	H													
GND (A42)	A02B2	1-02	H													
GND (A43)	A03B2	1-03	H													
GND (A44)	A04B2	1-04	H													
GND (A45)	A05B2	1-05	H													
GND (A46)	A06B2	1-06	H													
GND (A47)	A07B2	1-07	H													
GND (A48)	A08B2	1-08	H													
GND (A49)	A09B2	1-09	H													
GND (A50)	A10B2	1-10	H													
GND (A51)	A11B2	1-11	H													
GND (A52)	A12B2	1-12	H													
GND (A53)	A13B2	1-13	H													
GND (A54)	A14B2	1-14	H													
GND (A55)	A15B2	1-15	H													
GND (A56)	A16B2	1-16	H													
GND (A57)	A17B2	1-17	H													
GND (A58)	A18B2	1-18	H													
GND (A59)	A19B2	1-19	H													
GND (A60)	A20B2	1-20	H													
GND (A61)	A21B2	1-21	H													
GND (A62)	A22B2	1-22	H													
GND (A63)	A23B2	1-23	H													
GND (A64)	A24B2	1-24	H													
GND (A65)	A25B2	1-25	H													
GND (A66)	A26B2	1-26	H													
GND (A67)	A27B2	1-27	H													
GND (A68)	A28B2	1-28	H													
GND (A69)	A29B2	1-29	H													
GND (A70)	A30B2	1-30	H													
GND (A71)	A31B2	1-31	H													
GND (A72)	A32B2	1-32	H													
GND (A73)	A33B2	1-33	H													
GND (A74)	A34B2	1-34	H													
GND (A75)	A35B2	1-35	H													
GND (A76)	A36B2	1-36	H													
GND (A77)	A37B2	1-37	H													
GND (A78)	A38B2	1-38	H													
GND (A79)	A39B2	1-39	H													
GND (A80)	A40B2	1-40	H													
GND (A81)	A41B2	1-41	H													
GND (A82)	A42B2	1-42	H													
GND (A83)	A43B2	1-43	H													
GND (A84)	A44B2	1-44	H													
GND (A85)	A45B2	1-45	H													
GND (A86)	A46B2	1-46	H													
GND (A87)	A47B2	1-47	H													
GND (A88)	A48B2	1-48	H													
GND (A89)	A49B2	1-49	H													
GND (A90)	A50B2	1-50	H													
GND (A91)	A51B2	1-51	H													
GND (A92)	A52B2	1-52	H													
GND (A93)	A53B2	1-53	H													
GND (A94)	A54B2	1-54	H													
GND (A95)	A55B2	1-55	H													
GND (A96)	A56B2	1-56	H													
GND (A97)	A57B2	1-57	H													
GND (A98)	A58B2	1-58	H													
GND (A99)	A59B2	1-59	H													
GND (A100)	A60B2	1-60	H													

0011-C.PW
RUN NAME

RND2H8.V23(23) 05/24/74

12-MAR-75 8:43 PAGE 28
LENGTH EXCEPTIONS RUN NUMBER

A/P	PIN NAME	ORDER PIN	RAY - ORDER	Q	DRAW	RV	PG	Y	X	Z	REMARKS	12-MAR-75 LENGTH	8:43 EXCEPTIONS	PAGE 28 RUN NUMBER
PR L		AD1N2	1-01 *	H						2			HAND WIRE	196
PR L		AD2N2	1-02 *							1			TO HERE	196
PR L		CD1S1	1-03 *	H						2			HAND WIRE	196
PR L		CD2S1	1-04 *	H						1			HAND WIRE	196
PR L		CD3S1	1-05 *	H						2			HAND WIRE	196
PR L		CD4S1	1-06 *							1			TO HERE	196
PR L		AD3N2	1-07 *	H						2			HAND WIRE	196
PR L		AD4N2	1-08 *										TO HERE	196
PR L			1									30-0/8		196
RESERVE BUS		RD2A1	1-01	H						1			H TO WHERE	197
RESERVE BUS		RD3A1	1-02										TO HERE	197
RESERVE BUS			1									2-6/8		197
SACK L		AD1R2	1-01 *	H						2			HAND WIRE	198
SACK L		AD2R2	1-02 *							1			TO HERE	198
SACK L		FD1T2	1-03 *	H						2			HAND WIRE	198
SACK L		FD2T2	1-04 *	H						1			HAND WIRE	198
SACK L		FD3T2	1-05 *	H						2			HAND WIRE	198
SACK L		FD4T2	1-06 *							1			TO HERE	198
SACK L		AD3F2	1-07 *	H						2			HAND WIRE	198
SACK L		AD4R2	1-08 *										TO HERE	198
SACK L			1									45-6/8		198
SSYN L		FD1C1	1-01 *	H						2			HAND WIRE	199
SSYN L		FD2C1	1-02 *	H						1			HAND WIRE	199
SSYN L		FD3C1	1-03 *	H						2			HAND WIRE	199
SSYN L		FD4C1	1-04 *										TO HERE	199
SSYN L			1									8-2/8		199
SSYN L		DD1U1	1-01 *	H						2			HAND WIRE	200
SSYN L		DD2U1	1-02 *							1			TO HERE	200
SSYN L		DD1U1	1-03 *	H						2			HAND WIRE	200
SSYN L		DD2U1	1-04 *	H						1			HAND WIRE	200
SSYN L		DD3U1	1-05 *	H						2			HAND WIRE	200
SSYN L		DD4U1	1-06 *							1			TO HERE	200
SSYN L		DD3U1	1-07 *	H						2			HAND WIRE	200
SSYN L		DD4U1	1-08 *										TO HERE	200
SSYN L			1									32-2/8		200
SSYN L JMF		DD2U1	1-01							1				201
SSYN L JMF		DD2U1	1-02											201
SSYN L JMF			1									4-4/8		201



CUSTOMER PRINT SET		ELECTRICAL					CUSTOMER PRINT SET		MECHANICAL								
	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE		MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE		
1		1	A-PL-DD11-P-Ø		1	UNIT ASSY DD11-P		1		1	A-PL-DD11-P-Ø		1	UNIT ASSY DD11-P			
X			D-MU-DD11-P-2		1	MODULE UTILIZATION											
										2	C-IA-7011523-0-0		1	BACK PLANE ASSY DD11-PK			
X		2	C-IA-7011523-0-0		1	BACK PLANE ASSY DD11-PK				3	C-IA-7011522-0-0		1	WIRED ASSY			
											B-DC-5308753-0-0		1	DECAL 21 POINT (LTR)			
											A-DC-7411881-0-0		1	LABEL, AWT REV STATUS			
X		3	C-IA-7011522-0-0		1	WIRED ASSY				4	D-IA-7011521-0-0		1	BACK PLANE ASSY			
			K-WL-DD11-P-1	C	1	WIRE LIST											
			A-WT-7011522-0		1	AWT REV STATUS											
X		5	D-CS-5411660-0-1		1	CIRCUIT SCHEMATIC				5	D-CS-5411660-0-1			CIRCUIT SCHEMATIC			
											D-AH-5411660-0-4			ASSY/DRILLING HOLE LAYOUT			
X		6	D-IA-7011108-0-0		1	POWER HARNESS (BA11-K,BA11-L)					K-CO-5411660-0-5			X-Y COORDINATE HOLE LOCATION			
											B-MH-5411660-0-6			MODULE ECO HISTORY			
											5011659			ETCH CIRCUIT BOARD			
X		7	C-AD-7012307-0-0		1	BACK PLANE ASSY DD11-PF				6	D-IA-7011108-0-0		1	POWER HARNESS (BA11-K,BA11-L)			
										7	C-AD-7012307-0-0		1	BACKPLANE ASSY DD11-PF			
X		8	D-IA-7011109-0-0		1	POWER HARNESS(BA11-F,BA11-P)				8	D-IA-7011109-0-0		1	POWER HARNESS (BA11-F,BA11-P)			
										9	D-IA-5512002-0-0		1	OVERLAY, WIRING			
										10	990516			PACKAGING			
										11	370040-0-0			PACKAGING INSTRUCTIONS			
CUSTOMER PRINT SET CODES		X = PRINT OF DOCUMENT INCLUDED IN PRINT SET C = INCLUDES ALL PRINTS INDICATED ON DOCUMENT S = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED					TITLE		DRAWING DIRECTORY DD11-P		SHEET 3 OF 3		SIZE CODE		NUMBER		REV
											B DD		DD11-P		D		

DPB 108

DEC 16 1975 10:22 28-R972

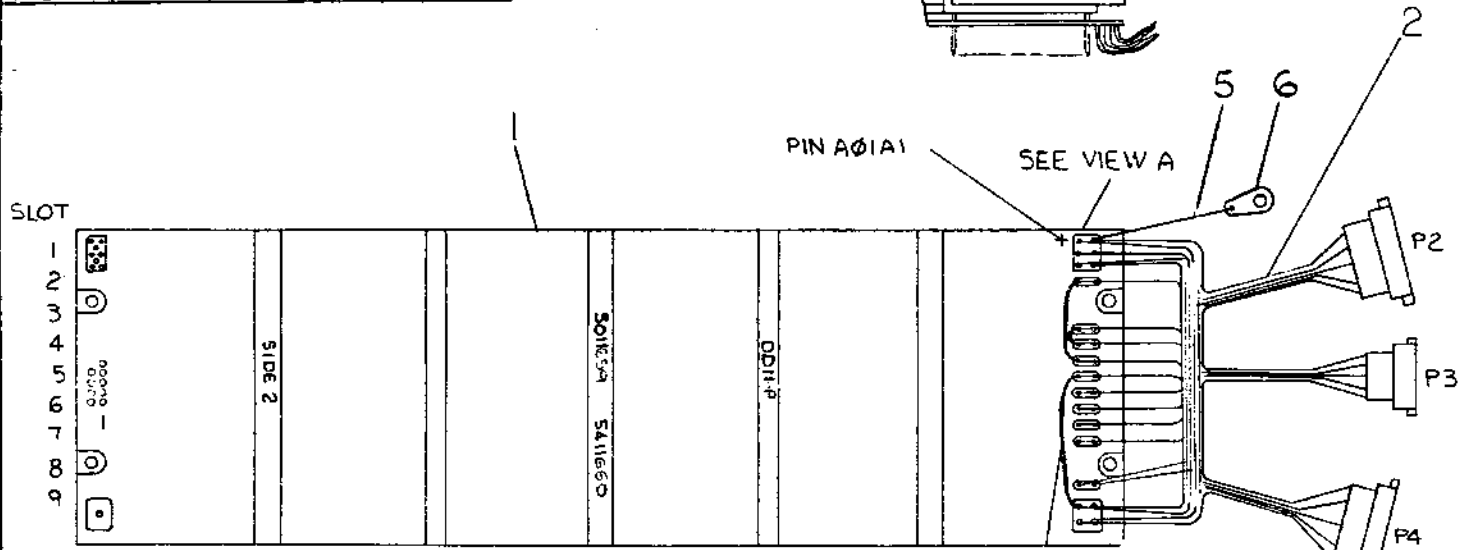
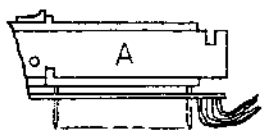
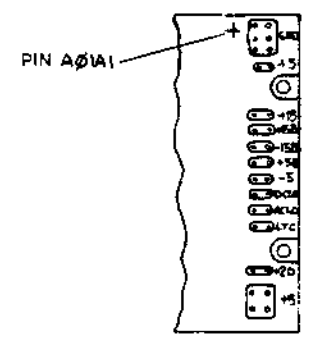
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WIRE TABLE

FROM			TO	FROM			TO
COLOR	POINT	CONNECTION	SIGNAL	COLOR	POINT	CONNECTION	SIGNAL
BLUE	P4-13	SOLDER	-15V	BRN	P2-14	SOLDER	-5V
RED	P4-4		+5V	BLK	P2-8		GND
RED	P4-1		+5V	GRAY	P2-2		+15
BLK	P4-8		GND	ORG	P2-3		+20
ORG	P4-3		+20V	BLK	P2-9		GND
BLK	P4-9		GND	RED	P2-12	SOLDER	+5B
WHT	P4-6		+15B	ITEM 5	ITEM 6	SOLDER	GND
GRN	P4-15		-13B				
YEL	P3-4		ACLO				
BLK	P3-1		GND				
BRN	P3-2		LTC				
VIO	P3-3		DCLO				
RED	P2-4		+5V				
RED	P2-1	SOLDER	+5V				

NOTES:

- WHEN THE DD11-PK'S USED WITH A BA11-K EXPANSION BOX WITHOUT BATTERY BACK UP, (I.E., NO 785 OR 7850) INSTALL THE THREE JUMPERS SHOWN:
 A) -15 TO -15B
 B) +15 TO +15B
 C) +5 TO +5B (SEE NOTE 3)
 USE #22 SHIELD BUS WIRE ON SIDE 2. THIS WILL PROVIDE POWER TO THE MOS MEMORY VOLTAGE RAILS.
- INSTALL ITEM # 6 UNDER LOGIC FRAME MOUNTING SCREW TO TIE LOGIC GROUND TO CHASSIS GROUND.
- BA11-K'S THAT USE THE 5410864-YA-1 POWER DISTRIBUTION (I.E., 11/34A, 11/34 WITH FP11-AU, AND SOME 11/04'S) AND HAVE MORE THAN ONE DD11-DK (OR AN ADDITIONAL DD11-CK) CAN ONLY HAVE THE +5 TO +5B JUMPER IN ONE OF THE BACK PANELS. IF TWO OF THE BACK PANELS HAVE THE JUMPER IN, THE +5V REGULATORS MAY BE CONNECTED TOGETHER. TYPICALLY THIS JUMPER IS IN THE FIRST BACK PANEL, BUT IT MAY BE PLACED IN ONE OF THE OTHER BACK PANELS IF DEEMED NECESSARY FOR POWER REQUIREMENTS.



A/R	DESCRIPTION	QTY	ITEM NO.
	COPRESS-O-CARTON	9905016-4	8
	PACKAGING INSTRUCTIONS	3700040-0-0	7
1	TERMINAL, SOLDER	9008150	6
2	WIRE, BLK, STRD#14	9107370-00	5
6	TUBING #22 (BLUE)	9107256-06	4
6	WIRE BUS #22	9107560-01	3
1	POWER HARNESS (BA11-K, BA11-L)	D-IA-701108-0-0	2
1	WIRED ASSY DD11-P	C-IA-7011523-0-0	1

REV.	CHG	DATE	BY	REASON
A		15-OCT-75	R. BARRY	
B		24-FEB-76	R. BARRY	
C		17-FEB-77	R. BARRY	
D		17-FEB-77	R. BARRY	

FIRST USED ON OPTION/MODEL	DD11-P	QTY.		DESCRIPTION		PART NO.		ITEM NO.	
PARTS LIST									
DIMENSIONAL TOLERANCE					DRN: <i>D. Haden</i> DATE: 5/20/75				
DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED					CHK'D: <i>J. Neary</i> DATE: 7/1/75				
MILLIMETERS			INCHES			ANGLES			TITLE
XXX	±0.10	XXX	±0.008	XXX	±0° 30'	BACKPLANE ASS'Y (DD11-PK)			
XX	±0.5	XX	±0.02	X	±0.1	DIGITAL			
X	±2	X	±0.1	THIRD ANGLE PROJECTION					
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓					NEXT HIGHER ASSY.				
MATERIAL SEE PARTS LIST					SCALE: <i>++</i>				
FINISH: <i>++</i>					SHEET 1 OF 1				
SIZE CODE			NUMBER			REV.			
C IA			7011523-0-0			D			

DLG FORM NO. DMC 100-B

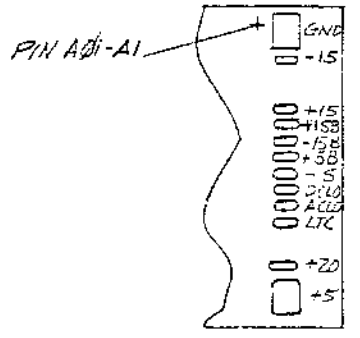
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WIRE TABLE

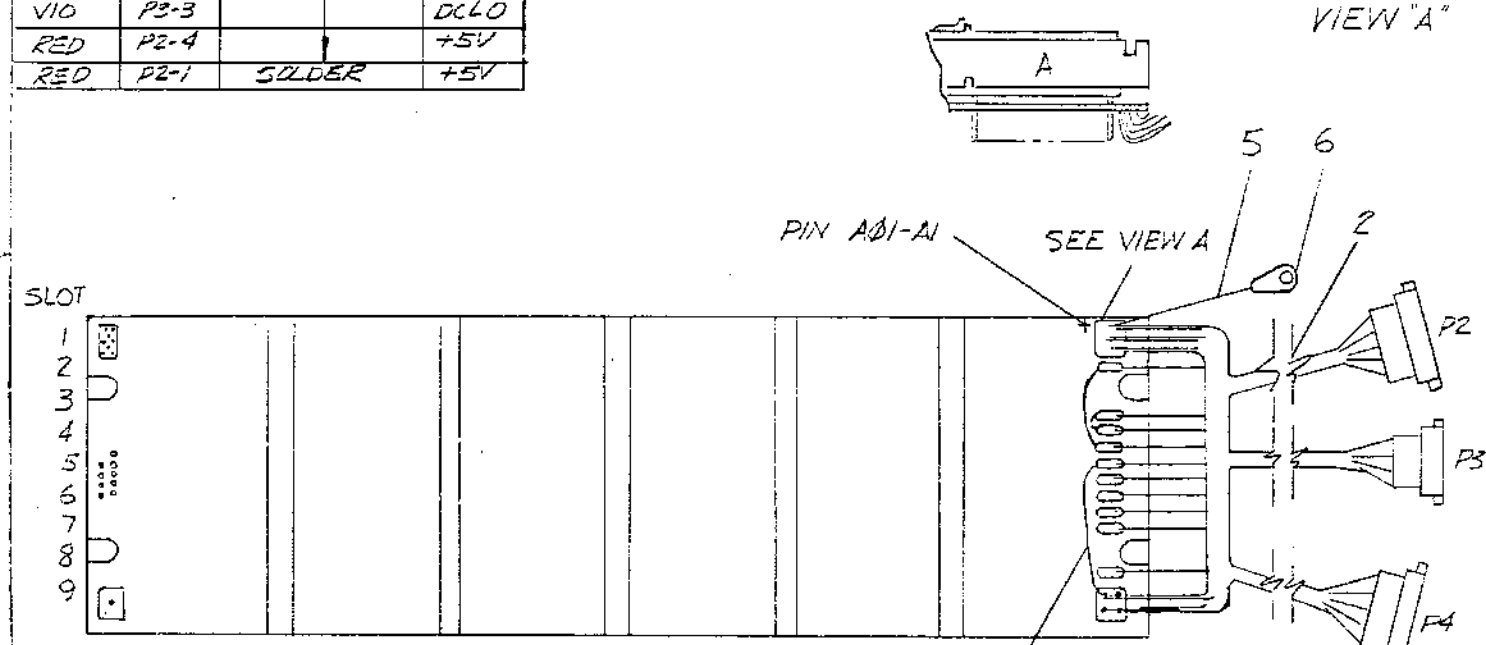
FROM			TO	FROM			TO
COLOR	POINT	CONNECTION	SIGNAL	COLOR	POINT	CONNECTION	SIGNAL
BLU	P4-13	SOLDER	-15V	BRN	P2-14	SOLDER	-5V
RED	P4-4		+5V	BLK	P2-8		GND
RED	P4-1		+5V	GRAY	P2-2		+15
BLK	P4-8		GND	ORN	P2-3		+20
ORN	P4-3		+20V	BLK	P2-9		GND
BLK	P4-9		GND	RED	P2-10	SOLDER	+5B
WHT	P4-6		+15B	ITEM#5	ITEM#6	SOLDER	GND
GRN	P4-15		-15B				
VEL	P3-4		ACLO				
BLK	P3-1		GND				
BRN	P3-2		LTC				
VIO	P3-3		DCLO				
RED	P2-4		+5V				
RED	P2-1	SOLDER	+5V				

NOTES:

1. WHEN DDII-PF IS USED WITH A BAI-F EXP BOX WITHOUT BATTERY BACK UP INSTALL THE THREE JUMPERS SHOWN:
 1) -15 TO -15B
 2) +15 TO +15B
 3) +5 TO +5B
 USE #20 INSULATED BUS WIRE ON SIDE 2 THIS WILL PROVIDE POWER TO THE MOS MEM VOLTAGE RAILS.
2. INSTALL ITEM #6 UNDER LOGIC FRAME MOUNTING SCREW TO TIE LOGIC GROUND TO CHASSIS GROUND.



VIEW "A"



3
4
SEE NOTE!

QTY.	DESCRIPTION	PART NO.	REV.
1	TERMINAL, SOLDER	9008150	6
1	WIRE, BLK STRD #14	9107370-00	5
1	TUBING, #20 (ULSKE)	9107267-10	4
1	WIRE, BUS #20	9107500-02	3
1	POWER HARNESS BAI-F	1000000-00-00	2
1	WIRED ASSY DDII-P	61470 522 0-0	1

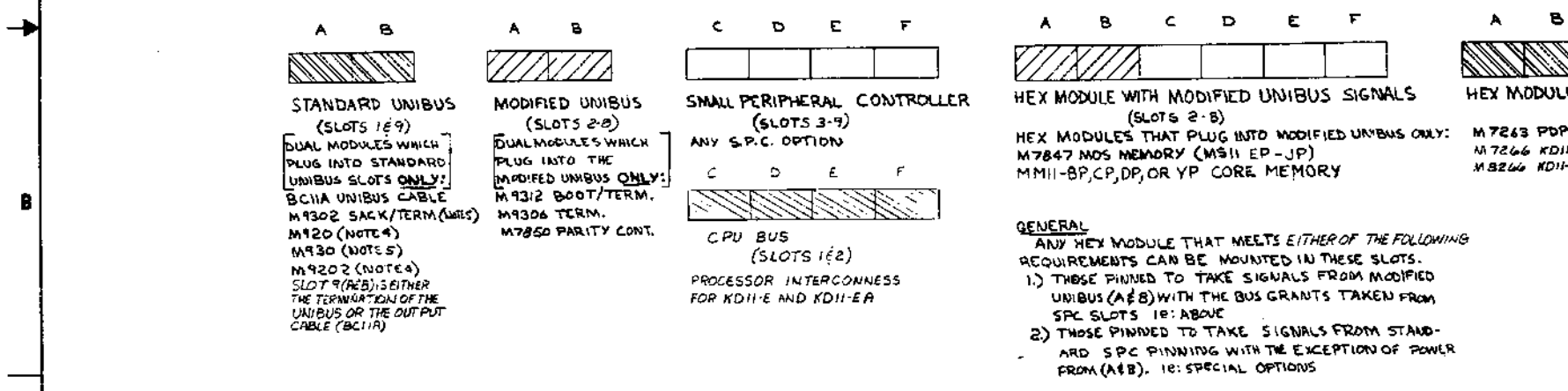
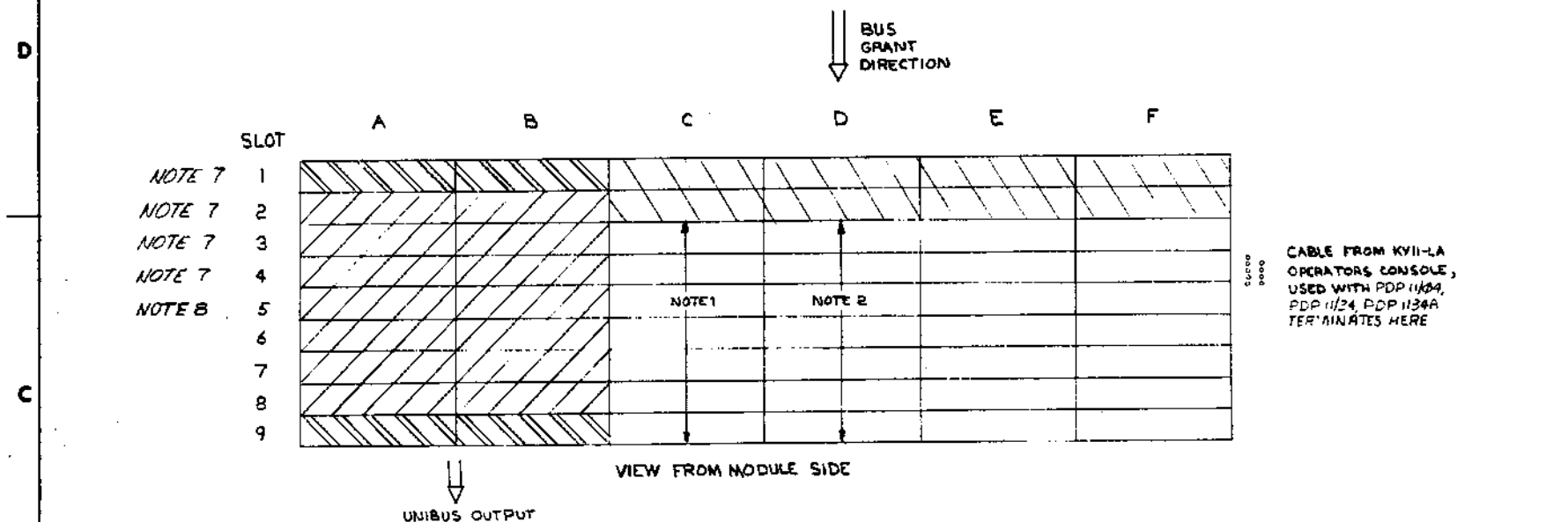
FIRST USED ON OPTION/MODEL DDII-PF		PARTS LIST	
DIMENSIONAL TOLERANCE		CHK'D	DATE
DIMENSIONS ARE MILLIMETERS INCHES UNLESS OTHERWISE SPECIFIED		ENG'D	DATE
MILLIMETERS	INCHES	PROG. ENG.	DATE
X.XX ±0.10	XXX ±.005	PROD.	DATE
X.X ±0.3	XX ±.02	TEST.	DATE
X ±.5	X ±.1		
MIN TO ANGLE	REMOVE BURRS AND BREAK SHARP	NEXT HIGHER ASSY.	
PROJECTION	CORNERS SURFACE QUALITY		
MATERIAL	SEE PARTS LIST	SIZE/CODE	NUMBER
FINISH		CAD	7012307-0-0
		SCALE	REV.
		SHEET	

REV.	DESCRIPTION

REV. 1
CAD 7012307-0-0

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- NOTES:**
1. REMOVE C41 TO C81 WIRE WRAP JUMPER TO INSTALL AN MPR OPTION IN ANY SPC SLOT.
 2. Q727 REQUIRED IN ANY UNUSED SPC SLOT TO PROVIDE BUS GRANT CONTINUITY.
 3. GRANT DIRECTION IS SLOT 1 TO SLOT 9.
 4. USE M9202 TO INTERCONNECT SYSTEM UNITS INSTEAD OF M928. M9202 IS A 2 FT. UNIBUS JUMPER CABLE USED TO DISTRIBUTE UNIBUS LOADING.
 5. M9302 (SACK/TERM) AND M9304 (TERM) MUST NEVER BE INSTALLED IN ANY SLOT OTHER THAN SLOT 9 (A & B). POWER SUPPLY VOLTAGES WILL BE SHORTED OUT IF THESE TERMINATORS ARE MOUNTED IN THE MODIFIED UNIBUS SLOTS.
 6. MODIFIED UNIBUS SECTION CARRIES CORE AND MOS MEMORY VOLTAGE RAILS AND MEMORY PARITY CONTROL SIGNALS INSTEAD OF BUS GRANT AND SOME CMD SIGNALS THAT ARE CONTAINED IN STANDARD UNIBUS SLOTS.
 7. REFER TO NEXT PAGE FOR RECOMMENDED UTILIZATION OF THIS SLOT IN STANDARD SYSTEM.
 8. THIS SLOT IS RESERVED FOR KKII-A OPTION ON PDP1134A ONLY BAIL-K BOX ONLY.
 9. SLOT 3 IS TO BE USED FOR EITHER KKII-A OR FPII-A OPTIONS. IF BOTH OPTIONS ARE PRESENT FPII-A MUST GO IN SLOT 3 AND KKII-A IN SLOT 5 THESE CONFIGURATIONS APPLY TO BOTH THE BAIL-L (5 1/4) AND BAIL-K (10.5") BOXES.
 10. EITHER M9312 OR M9301 MAY BE USED BUT NOT BOTH.



REV. 11/77

REV.	CHANGE NO.	DESCRIPTION
1	00000000	INITIAL ISSUE
2	00000001	...
3	00000002	...
4	00000003	...
5	00000004	...
6	00000005	...
7	00000006	...
8	00000007	...
9	00000008	...
10	00000009	...
11	00000010	...
12	00000011	...
13	00000012	...
14	00000013	...
15	00000014	...
16	00000015	...
17	00000016	...
18	00000017	...
19	00000018	...
20	00000019	...
21	00000020	...

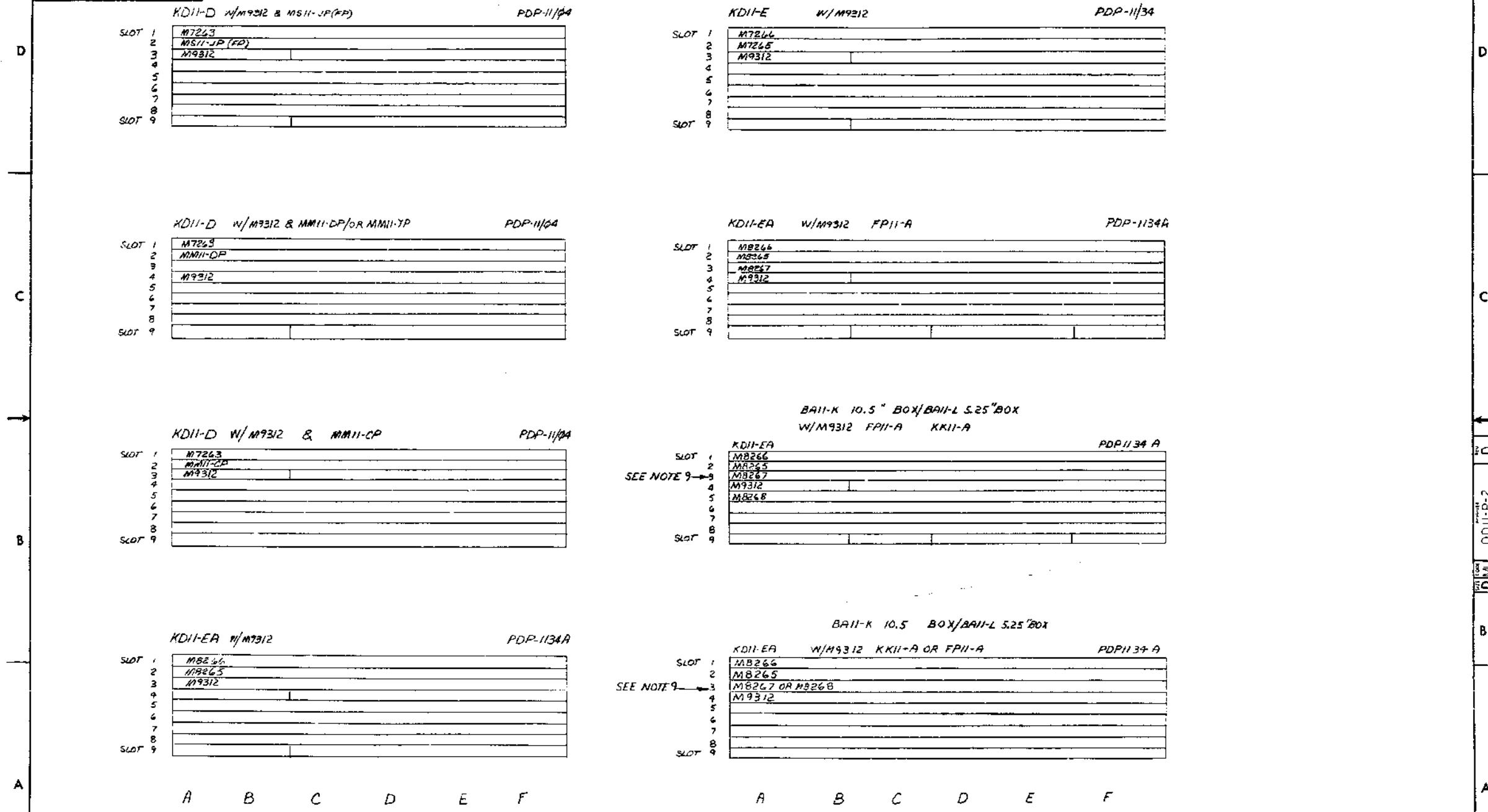
DESCRIPTION	ENG. PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
CLASS OF ACCURACY	10/30	1.00
CHECK CODE	0000	0000
QUANTITY & VARIATION	1.000	1.000
MATERIAL	...	...
FINISH	...	...

MODULE UTILIZATION (DDII-P)

SIZE	CODE	NUMBER	REV.
B-DD-DDII-P	D	DMU DDII-P-2	0
SCALE	1 OF 2		
SHEET			

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RECOMMENDED SLOT UTILIZATION IN STANDARD SYSTEMS



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	MODULE UTILIZATION (DDII-P)	SIZE CODE	D MU	NUMBER	DDII-P-2	REV	D
SCALE		SHEET	2 OF 2	DIST.			

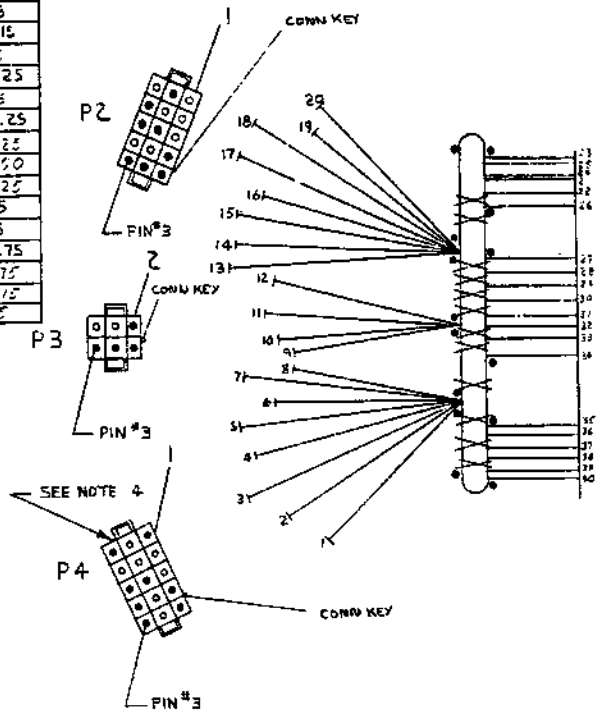
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NOTES:

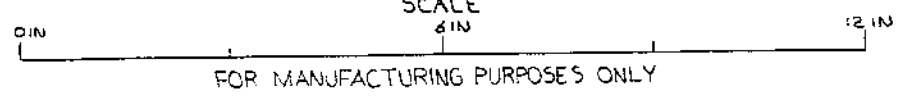
1. USE TIE WRAPS (X) ITEM#s AT BREAK OUT POINTS SHOWN
2. SGT (X) INDICATES NAIL LOCATION FOR ASS'Y. USE ONLY. COVER NAILS WITH SHINK TUBING TO PREVENT CUTTING HARNESS.
3. WIRE LENGTH TOLERANCES WILL BE +.000 - 0.000 INCHES.
4. ALL CONN. SHOWN FROM WIRING SIDE.

WIRING TABLE

ITEM NO.	AWG	COLOR	FROM			TO		SIGNAL	LENGTH
			POINT	CONNECTION	WITH	POINT	CONNECTION		
4	#18	BLU	1	P4-13	3	26	SOLDER	-15V	7
5	14	RED	2	P4-4		37		+5V	5
5	14	RED	3	P4-1		38		+5V	5
6	14	BLK	4	P4-8		21		GND	7.75
7	14	ORN	5	P4-3		35		+20V	5
8	14	BLK	6	P4-9		22		GND	8
9	18	WHT	7	P4-6		23		+5B	6.15
14	18	GRN	8	P4-15		29		-15B	7
12	18	YEL	9	P3-4		33		RCLO	4.25
6	14	BLK	10	P3-1		23		GND	6
10	18	BRN	11	P3-2		24		1TC	4.25
11	18	VIO	12	P3-3		32		DCLO	4.25
5	14	RED	13	P2-4		39		+5V	7.50
5	14	RED	14	P2-1		40		+5V	7.25
10	18	BRN	15	P2-14		31		-5V	5
6	14	BLK	16	P2-8		24		GND	5
8	18	GREY	17	P2-2		27		+15	4.75
7	14	ORN	18	P2-3		30		+20	6.75
4	14	BLK	19	P2-9		25		GND	5.75
5	14	RED	20	P2-12	3	30	SOLDER	+5B	5



DO NOT REDUCE SCALE



FOR WIRE LENGTHS SEE WIRING TABLE

ITEM NO.	DESCRIPTION	QTY	PART NO.	ITEM NO.
1	POWER HARNESS DECALS		1409872-2-0	15
4/R	WIRE #18 AWG, GRN		9107360-55	14
4/R	WIRE #18 AWG, WHT		9107360-99	13
4/R	WIRE #18 AWG, YEL		9107360-44	12
4/R	WIRE #18 AWG, VIO		9107360-77	11
4/R	WIRE #18 AWG, BRN		9107360-11	10
4/R	WIRE #18 AWG, BLU		9107360-66	9
4/R	WIRE #18 AWG, GREY		9107360-28	8
4/R	WIRE #14 AWG, ORN		9107370-53	7
4/R	WIRE #18 AWG, BLK		9107370-00	6
4/R	WIRE #14 AWG, RED		9107370-22	5
12	TIE WRAP		90070-31	4
20	PIN NAIL		1209378-01	3
1	CONN 5 PIN HOUSING		1209351-06	2
2	CONN 5 PIN HOUSING		1209351-15	1

QUANTITY & VARIATION	DESCRIPTION	QTY	PART NO.	ITEM NO.
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			
THIRD ANGLE PROJECTION	DATE	9/11/71	FIRST USED ON	DD11-D
	CHKD BY	9/11/71	TITLE	POWER HARNESS (BALL-K, BALL-I)
FINISH	ENGR BY	9/11/71	SCALE	D 1A 701108-0-0
	PROJ ENGR	9/11/71	NUMBER	8
SEE PARTS LIST	NEXT HIGHER ASSY.	SIZE	CODE	
	SCALE	SHEET	OF	DIST.

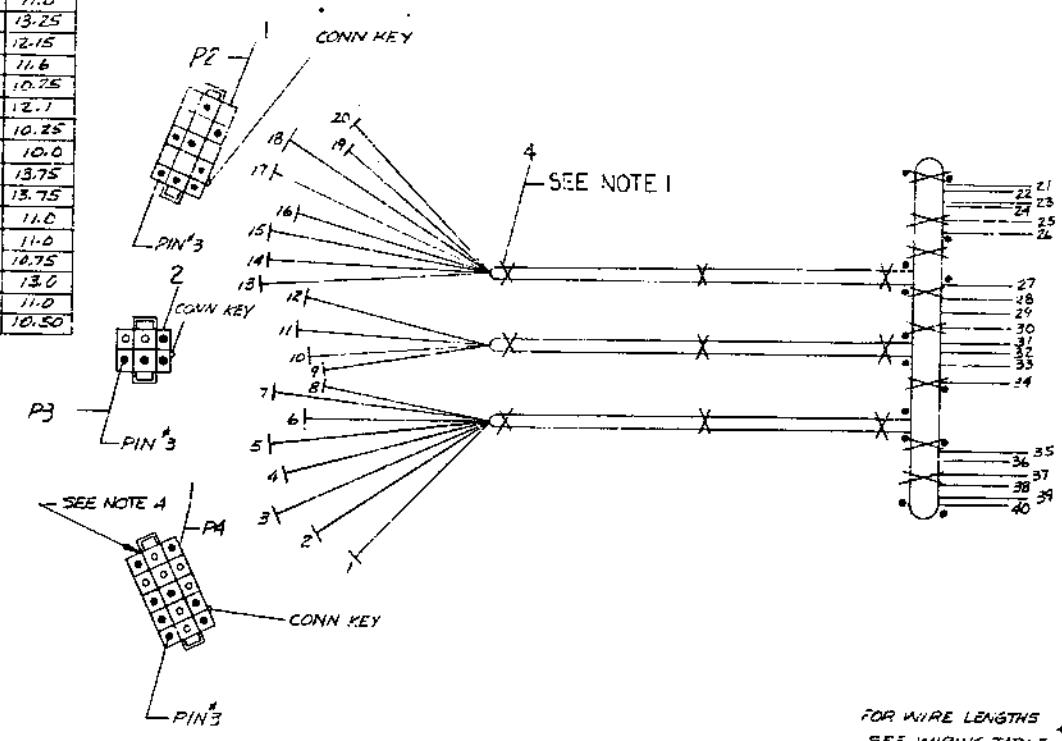
REV	DATE	BY	CHKD BY
1			
2			
3			
4			
5			
6			
7			
8			

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0-0-601102 VI 2

WIRING TABLE

ITEM NO	DESCRIPTION	AWG	COLOR	POINT	FROM CONNECTION	WITH	POINT	TO CONNECTION	SIGNAL	LENGTH
1		18	BLU	1	P4-13	3	26	SOLDER	-15V	12.75
5		14	RED	2	P4-4		37		+5V	11
14		14	RED	3	P4-1		38		+5V	11.25
6		14	BLK	4	P4-8		21		GND	13.75
7		14	CRN	5	P4-3		35		+20V	11.0
6		14	BLK	6	P4-9		22		GND	13.25
13		18	WHT	7	P4-6		28		+5B	12.15
14		18	GRN	8	P4-15		29		-15B	11.6
12		18	YEL	9	P3-4		33		ACLD	10.75
6		14	BLK	10	P3-1		23		GND	12.1
10		18	BRN	11	P3-2		34		LTC	10.25
11		18	VIO	12	P3-3		32		D/LD	10.0
5		14	RED	13	P2-4		39		+5V	13.75
5		14	RED	14	P2-1		40		+5V	13.75
15		14	BRN	15	P2-14		31		-5V	11.0
6		14	BLK	16	P2-3		24		GND	11.0
8		18	GRY	17	P2-2		27		+15	10.75
7		14	CRN	18	P2-3		36		+20	13.0
6		14	BLK	19	P2-9		25		GND	11.0
5		14	RED	20	P2-10	3	30	SOLDER	+5B	10.50



- NOTES:
1. USE TIE WRAPS (X) ITEM #4 AT BREAKOUT POINTS SHOWN.
 2. DOT (.) INDICATES NAIL LOCATION FOR ASSY. USE ONLY. COVER NAILS WITH SHRINK TUBING.
 3. WIRE LENGTH TOL WILL BE ± .12 IN.
 4. ALL CONN. SHOWN FROM NIPING SIDE.
 5. STRIP 1/8" INSULATION FROM POINTS 21 THRU 40 AND FULL TIN POINTS 21 THRU 40.

ITEM	DESCRIPTION	QTY	PART NO.	ITEM NO.
1	POWER HARNESS DECAL	1	7409872-2	6
AIR	WIRE #4 AWG (BRN)	15	9107370-11	15
AIR	WIRE #6 AWG (GRN)	14	9107350-55	14
AIR	WIRE #8 AWG (WHT)	12	9107360-99	12
AIR	WIRE #8 AWG (YEL)	12	9107360-44	12
AIR	WIRE #8 AWG (VIO)	11	9107360-77	11
AIR	WIRE #8 AWG (BRN)	11	9107360-11	11
AIR	WIRE #8 AWG (BLU)	9	9107360-66	9
AIR	WIRE #8 AWG (GRY)	8	9107360-88	8
AIR	WIRE #14 AWG (CRN)	7	9107370-33	7
AIR	WIRE #14 AWG (BLK)	6	9107370-00	6
AIR	WIRE #14 AWG (RED)	5	9107370-22	5
17	TIE WRAP	1	9007031	1
20	PIN MALE	5	1209378-01	5
1	CONN 6 PIN HOUSING	2	7207351-26	2
2	CONN 15 PIN HOUSING	1	1209351-15	1

FOR WIRE LENGTHS SEE WIRING TABLE

DO NOT REDUCE SCALE 6 IN

FOR MANUFACTURING PURPOSES ONLY

REV	DATE	BY	CHKD
1	10/11/69	000001	A
2	11/11/69	000002	B
3	12/11/69	000003	C
4	01/11/70	000004	D
5	02/11/70	000005	E
6	03/11/70	000006	F
7	04/11/70	000007	G
8	05/11/70	000008	H
9	06/11/70	000009	I
10	07/11/70	000010	J
11	08/11/70	000011	K
12	09/11/70	000012	L
13	10/11/70	000013	M
14	11/11/70	000014	N
15	12/11/70	000015	O
16	01/11/71	000016	P
17	02/11/71	000017	Q
18	03/11/71	000018	R
19	04/11/71	000019	S
20	05/11/71	000020	T
21	06/11/71	000021	U
22	07/11/71	000022	V
23	08/11/71	000023	W
24	09/11/71	000024	X
25	10/11/71	000025	Y
26	11/11/71	000026	Z
27	12/11/71	000027	AA
28	01/11/72	000028	AB
29	02/11/72	000029	AC
30	03/11/72	000030	AD
31	04/11/72	000031	AE
32	05/11/72	000032	AF
33	06/11/72	000033	AG
34	07/11/72	000034	AH
35	08/11/72	000035	AI
36	09/11/72	000036	AJ
37	10/11/72	000037	AK
38	11/11/72	000038	AL
39	12/11/72	000039	AM
40	01/11/73	000040	AN
41	02/11/73	000041	AO
42	03/11/73	000042	AP
43	04/11/73	000043	AQ
44	05/11/73	000044	AR
45	06/11/73	000045	AS
46	07/11/73	000046	AT
47	08/11/73	000047	AU
48	09/11/73	000048	AV
49	10/11/73	000049	AW
50	11/11/73	000050	AX
51	12/11/73	000051	AY
52	01/11/74	000052	AZ
53	02/11/74	000053	BA
54	03/11/74	000054	BB
55	04/11/74	000055	BC
56	05/11/74	000056	BD
57	06/11/74	000057	BE
58	07/11/74	000058	BF
59	08/11/74	000059	BG
60	09/11/74	000060	BH
61	10/11/74	000061	BI
62	11/11/74	000062	BJ
63	12/11/74	000063	BK
64	01/11/75	000064	BL
65	02/11/75	000065	BM
66	03/11/75	000066	BN
67	04/11/75	000067	BO
68	05/11/75	000068	BP
69	06/11/75	000069	BQ
70	07/11/75	000070	BR
71	08/11/75	000071	BS
72	09/11/75	000072	BT
73	10/11/75	000073	BU
74	11/11/75	000074	BV
75	12/11/75	000075	BW
76	01/11/76	000076	BX
77	02/11/76	000077	BY
78	03/11/76	000078	BZ
79	04/11/76	000079	CA
80	05/11/76	000080	CB
81	06/11/76	000081	CC
82	07/11/76	000082	CD
83	08/11/76	000083	CE
84	09/11/76	000084	CF
85	10/11/76	000085	CG
86	11/11/76	000086	CH
87	12/11/76	000087	CI
88	01/11/77	000088	CJ
89	02/11/77	000089	CK
90	03/11/77	000090	CL
91	04/11/77	000091	CM
92	05/11/77	000092	CN
93	06/11/77	000093	CO
94	07/11/77	000094	CP
95	08/11/77	000095	CQ
96	09/11/77	000096	CR
97	10/11/77	000097	CS
98	11/11/77	000098	CT
99	12/11/77	000099	CU
100	01/11/78	000100	CV

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DIMS

MATERIAL SEE PARTS LIST

FINISH

DESCRIPTION: POWER HARNESS (BAII-F)

FIRST USED ON: DD11-DF, PF

DATE: 12/29/73

PROJ. ENG: P. PORRECA

PROJ. DATE: 12/29/73

SIZE: D

CODE: TA

NUMBER: 701109-0-C


SHEET: 1 OF 1

DIST.

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DIGITAL EQUIP. CORP.

REV. C NUMBER DDII-P-1 SIZE CODE K WL 2 1

FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
DDII-P				
PARTS LIST				
DRN. <i>W. Allen</i>	DATE 6/30/75	 DIGITAL EQUIPMENT CORPORATION <small>MAYNARD MASSACHUSETTS</small>		
CHK'D. <i>D. Perry</i>	DATE 6/30/75			
ENG. <i>R. Barry</i>	DATE 7-2-75			
PROJ. ENG. <i>J. ...</i>	DATE 7/2/75			
PROD. <i>K. ...</i>	DATE 7/2/75			
NEXT HIGHER ASSEMBLY		TITLE		
B-DD-DDII-P		WIRE LIST DDII-P		
SCALE <i>1/1</i>	SIZE CODE K WL	NUMBER DDII-P-1	REV. C	
SHEET OF 1	DIST.			

REVISIONS	CHANGE NO.	REV.
CHK <i>RTB</i>	DDII-P-00001	A
<i>RTB</i>	DDII-P-00003	B
<i>RTB</i>	DDII-P-00004	C

DD11P,C
RUN NAME

VGWRAP 35(102)-1 03-JUN-77
A/P PIN ORDER BAY Q DRAW RV RG Y X Z
NAME PIN ORDER OPT

REMARKS

10-JUL-78

9117 PAGE 2
NC LENGTH EXCEPTIONS
FLAG

RUN
NUMBER

DD11P,C RUN NAME	VGWRAP 35(102)-1 A/P PIN NAME	03-JUN-77 ORDER PIN	BAY ORDER	Q	DRAW OPT	RV	RG	Y	X	Z	REMARKS	10-JUL-78	9117 NC LENGTH FLAG	PAGE 2 EXCEPTIONS	RUN NUMBER
+5V	A01A2	1-01	*	P						2			0-7/8		3
+5V	A02A2	1-02	*	P						1			0-7/8		3
+5V	A03A2	1-03	*	P						2			0-7/8		3
+5V	A04A2	1-04	*	P						1			0-7/8		3
+5V	A05A2	1-05	*	P						2			0-7/8		3
+5V	A06A2	1-06	*	P						1			0-7/8		3
+5V	A07A2	1-07	*	P						2			0-7/8		3
+5V	A08A2	1-08	*	P						1			0-7/8		3
+5V	A09A2	1-09	*	P						2			3-1/8		3
+5V	B09A2	1-10	*	P						1			0-7/8		3
+5V	B08A2	1-11	*	P						2			0-7/8		3
+5V	B07A2	1-12	*	P						1			0-7/8		3
+5V	B06A2	1-13	*	P						2			0-7/8		3
+5V	B05A2	1-14	*	P						1			0-7/8		3
+5V	B04A2	1-15	*	P						2			0-7/8		3
+5V	B03A2	1-16	*	P						1			0-7/8		3
+5V	B02A2	1-17	*	P						2			0-7/8		3
+5V	B01A2	1-18	*	P						1			2-7/8		3
+5V	C01A2	1-19	*	P						2			0-7/8		3
+5V	C02A2	1-20	*	P						1			0-7/8		3
+5V	C03A2	1-21	*	P						2			0-7/8		3
+5V	C04A2	1-22	*	P						1			0-7/8		3
+5V	C05A2	1-23	*	P						2			0-7/8		3
+5V	C06A2	1-24	*	P						1			0-7/8		3
+5V	C07A2	1-25	*	P						2			0-7/8		3
+5V	C08A2	1-26	*	P						1			0-7/8		3
+5V	C09A2	1-27	*	P						2			3-1/8		3
+5V	D09A2	1-28	*	P						1			0-7/8		3
+5V	D08A2	1-29	*	P						2			0-7/8		3
+5V	D07A2	1-30	*	P						1			0-7/8		3
+5V	D06A2	1-31	*	P						2			0-7/8		3
+5V	D05A2	1-32	*	P						1			0-7/8		3
+5V	D04A2	1-33	*	P						2			0-7/8		3
+5V	D03A2	1-34	*	P						1			0-7/8		3
+5V	D02A2	1-35	*	P						2			0-7/8		3
+5V	D01A2	1-36	*	P						1			2-7/8		3
+5V	E01A2	1-37	*	P						2			0-7/8		3
+5V	E02A2	1-38	*	P						1			0-7/8		3
+5V	E03A2	1-39	*	P						2			0-7/8		3
+5V	E04A2	1-40	*	P						1			0-7/8		3
+5V	E05A2	1-41	*	P						2			0-7/8		3
+5V	E06A2	1-42	*	P						1			0-7/8		3
+5V	E07A2	1-43	*	P						2			0-7/8		3
+5V	E08A2	1-44	*	P						1			0-7/8		3
+5V	E09A2	1-45	*	P						2			3-1/8		3
+5V	F09A2	1-46	*	P						1			0-7/8		3
+5V	F08A2	1-47	*	P						2			0-7/8		3
+5V	F07A2	1-48	*	P						1			0-7/8		3
+5V	F06A2	1-49	*	P						2			0-7/8		3
+5V	F05A2	1-50	*	P						1			0-7/8		3
+5V	F04A2	1-51	*	P						2			0-7/8		3
+5V	F03A2	1-52	*	P						1			0-7/8		3
+5V	F02A2	1-53	*	P						2			0-7/8		3
+5V	F01A2	1-54	*	P											3
+5V													57-1/8		3

DD11P,C
RUN NAME

VGWRAP 35(102)-1 03-JUN-77
A/P PIN ORDER BAY * Q DRAW RV RG Y X Z
NAME PIN ORDER OPT

REMARKS

10-JUL-78

9:17 PAGE 3
NC LENGTH EXCEPTIONS
FLAG

RUN
NUMBER

-15V		C03B2	1-01	*	P									0-7/8	4
-15V		C04B2	1-02	*	P									0-7/8	4
-15V		C05B2	1-03	*	P									0-7/8	4
-15V		C06B2	1-04	*	P									0-7/8	4
-15V		C07B2	1-05	*	P									0-7/8	4
-15V		C08B2	1-06	*	P									0-7/8	4
-15V		C09B2	1-07	*	P									3-1/8	4
-15V		D09B2	1-08	*	P									0-7/8	4
-15V		D08B2	1-09	*	P									0-7/8	4
-15V		D07B2	1-10	*	P									0-7/8	4
-15V		D06B2	1-11	*	P									0-7/8	4
-15V		D05B2	1-12	*	P									0-7/8	4
-15V		D04B2	1-13	*	P									0-7/8	4
-15V		D03B2	1-14	*	P									2-7/8	4
-15V		E03B2	1-15	*	P									0-7/8	4
-15V		E04B2	1-16	*	P									0-7/8	4
-15V		E05B2	1-17	*	P									0-7/8	4
-15V		E06B2	1-18	*	P									0-7/8	4
-15V		E07B2	1-19	*	P									0-7/8	4
-15V		E08B2	1-20	*	P									0-7/8	4
-15V		E09B2	1-21	*	P									3-1/8	4
-15V		F09B2	1-22	*	P									0-7/8	4
-15V		F08B2	1-23	*	P									0-7/8	4
-15V		F07B2	1-24	*	P									0-7/8	4
-15V		F06B2	1-25	*	P									0-7/8	4
-15V		F05B2	1-26	*	P									0-7/8	4
-15V		F04B2	1-27	*	P									0-7/8	4
-15V		F03B2	1-28	*	P									0-7/8	4
-15V			1											30-1/8	4
-5V		B02V2	1-01	*	P									0-7/8	5
-5V		B03V2	1-02	*	P									0-7/8	5
-5V		B04V2	1-03	*	P									0-7/8	5
-5V		B05V2	1-04	*	P									0-7/8	5
-5V		B06V2	1-05	*	P									0-7/8	5
-5V		B07V2	1-06	*	P									0-7/8	5
-5V		B08V2	1-07	*	P									0-7/8	5
-5V			1											5-2/8	5
AC LO L		B01F1	1-01	*	P									0-7/8	6
AC LO L		B02F1	1-02	*	P									0-7/8	6
AC LO L		B03F1	1-03	*	P									0-7/8	6
AC LO L		B04F1	1-04	*	P									4-7/8	6
AC LO L		C03V1	1-05	*	P									0-7/8	6
AC LO L		C04V1	1-06	*	P									0-7/8	6
AC LO L		C05V1	1-07	*	P									0-7/8	6
AC LO L		C06V1	1-08	*	P									0-7/8	6
AC LO L		C07V1	1-09	*	P									0-7/8	6
AC LO L		C08V1	1-10	*	P									0-7/8	6
AC LO L		C09V1	1-11	*	P									6-3/8	6
AC LG L		B05F1	1-12	*	P									0-7/8	6
AC LO L		B06F1	1-13	*	P									0-7/8	6
AC LO L		B07F1	1-14	*	P									0-7/8	6
AC LO L		B08F1	1-15	*	P									0-7/8	6
AC LO L		B09F1	1-16	*	P									0-7/8	6
AC LO L			1											22-5/8	6

DD11P,C
RUN NAME

VGWRAP 35(102)-1 03-JUN-77
A/P PIN ORDER BAY = Q DRAW RV RG Y X Z
NAME PIN ORDER OPT

REMARKS

10-Jul-78

9117 PAGE 4
NC LENGTH EXCEPTIONS
FLAG

RUN
NUMBER

DD11P,C RUN NAME	A/P PIN NAME	ORDER PIN	BAY = ORDER	Q	DRAW OPT	RV	RG	Y	X	Z	REMARKS	NC LENGTH FLAG	EXCEPTIONS	RUN NUMBER
BB+15	A02R1		1-01 *	P						2		0-7/8		7
BB+15	A03R1		1-02 *	P						1		0-7/8		7
BB+15	A04R1		1-03 *	P						2		0-7/8		7
BB+15	A05R1		1-04 *	P						1		0-7/8		7
BB+15	A06R1		1-05 *	P						2		0-7/8		7
BB+15	A07R1		1-06 *	P						1		0-7/8		7
BB+15	A08R1		1-07 *	P								5-2/8		7
BB+15			1											
BB+5	B02D1		1-01 *	P						2		0-7/8		8
BB+5	B03D1		1-02 *	P						1		0-7/8		8
BB+5	B04D1		1-03 *	P						2		0-7/8		8
BB+5	B05D1		1-04 *	P						1		0-7/8		8
BB+5	B06D1		1-05 *	P						2		0-7/8		8
BB+5	B07D1		1-06 *	P						1		0-7/8		8
BB+5	B08D1		1-07 *	P								5-2/8		8
BB+5			1											
BB-15	A02S1		1-01 *	P						2		0-7/8		9
BB-15	A03S1		1-02 *	P						1		0-7/8		9
BB-15	A04S1		1-03 *	P						2		0-7/8		9
BB-15	A05S1		1-04 *	P						1		0-7/8		9
BB-15	A06S1		1-05 *	P						2		0-7/8		9
BB-15	A07S1		1-06 *	P						1		0-7/8		9
BB-15	A08S1		1-07 *	P								5-2/8		9
BB-15			1											
BBSY L	A01P2		1-01 *	P						2		0-7/8		10
BBSY L	A02P2		1-02 *	P						1		0-7/8		10
BBSY L	A03P2		1-03 *	P						2		0-7/8		10
BBSY L	A04P2		1-04 *	H						1	TWP	13-1/8		10
BBSY L	F03D1		1-05 *	P						2		0-7/8		10
BBSY L	F04D1		1-06 *	H						1	2" TWP	0-7/8		10
BBSY L	F05D1		1-07 *	P						2		0-7/8		10
BBSY L	F06D1		1-08 *	P						1		0-7/8		10
BBSY L	F07D1		1-09 *	P						2		0-7/8		10
BBSY L	F08D1		1-10 *	P						1		0-7/8		10
BBSY L	F09D1		1-11 *	H						2	TWP	14-3/8		10
BBSY L	A05P2		1-12 *	P						1		0-7/8		10
BBSY L	A06P2		1-13 *	P						2		0-7/8		10
BBSY L	A07P2		1-14 *	P						1		0-7/8		10
BBSY L	A08P2		1-15 *							2		0-7/8		10
BBSY L	A09P2		1-16 *									30-7/8		10
BBSY L			1											
BG4 A	B01E2		1-01 *	H						1	TWP	6-7/8		11
BG4 A	D01S2		1-02 *									6-7/8		11
BG4 A			1											
BG4 B	D01T2		1-01 *	P						1		0-5/8		12
BG4 B	D02S2		1-02 *	P								0-5/8		12
BG4 B			1											

DD11P,C RUN NAME	VGWRAP 35(102)-1 A/P PIN NAME	03-JUN-77 ORDER PIN	BAY - ORDER	Q	DRAW OPT	RV	RG	Y	X	Z	REMARKS	10-JUL-78	9117 NC LENGTH FLAG	PAGE 5 EXCEPTIONS	RUN NUMBER
BG4 C	D02T2		1-01 * P							1			0-5/8		13
BG4 C	D03S2		1-02 * P										0-5/8		13
BG4 C			1												13
BG4 D	D03T2		1-01 * P							1			0-5/8		14
BG4 D	D04S2		1-02 * P										0-5/8		14
BG4 D			1												14
BG4 E	D04T2		1-01 * P							1			0-5/8		15
BG4 E	D05S2		1-02 * P										0-5/8		15
BG4 E			1												15
BG4 F	D05T2		1-01 * P							1			0-5/8		16
BG4 F	D06S2		1-02 * P										0-5/8		16
BG4 F			1												16
BG4 H	D06T2		1-01 * P							1			0-5/8		17
BG4 H	D07S2		1-02 * P										0-5/8		17
BG4 H			1												17
BG4 J	D07T2		1-01 * P							1			0-5/8		18
BG4 J	D08S2		1-02 * P										0-5/8		18
BG4 J			1												18
BG4 K	D08T2		1-01 * P							1			0-5/8		19
BG4 K	D09S2		1-02 * P										0-5/8		19
BG4 K			1												19
BG4 L	B09E2		1-01 * H							1	TWP		7-1/8		20
BG4 L	D09T2		1-02 * X										7-1/8		20
BG4 L			1												20
BG5 A	B01B1		1-01 * H							1	TWP		7-1/8		21
BG5 A	D01P2		1-02 * X										7-1/8		21
BG5 A			1												21
BG5 B	D01R2		1-01 * P							1			0-5/8		22
BG5 B	D02P2		1-02 * P										0-5/8		22
BG5 B			1												22
BG5 C	D02R2		1-01 * P							1			0-5/8		23
BG5 C	D03P2		1-02 * P										0-5/8		23
BG5 C			1												23
BG5 D	D03R2		1-01 * P							1			0-5/8		24
BG5 D	D04P2		1-02 * P										0-5/8		24
BG5 D			1												24
BG5 E	D04R2		1-01 * P							1			0-5/8		25
BG5 E	D05P2		1-02 * P										0-5/8		25
BG5 E			1												25
BG5 F	D05R2		1-01 * P							1			0-5/8		26
BG5 F	D06P2		1-02 * P										0-5/8		26
BG5 F			1												26

DD11P,C
RUN NAME

VGWRAP 35(102)*1 03-JUN-77

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NC LENGTH EXCEPTIONS
FLAG

RUN
NUMBER

A/P	PIN NAME	ORDER PIN	BAY * ORDER	Q	DRAW OPT	RV	RG	Y	X	Z	REMARKS	NC FLAG	EXCEPTIONS	RUN NUMBER
BG5	H	D06R2	1-01 *	P						1		0-5/8		27
BG5	H	D07P2	1-02 *	P										27
BG5	H		1									0-5/8		27
BG5	J	D07R2	1-01 *	P						1		0-5/8		28
BG5	J	D08P2	1-02 *	P										28
BG5	J		1									0-5/8		28
BG5	K	D08R2	1-01 *	P						1		0-5/8		29
BG5	K	D09P2	1-02 *	P										29
BG5	K		1									0-5/8		29
BG5	L	B09B1	1-01 *	H						1	TWP	7-3/8		30
BG5	L	D09R2	1-02 *	X										30
BG5	L		1									7-3/8		30
BG6	A	B01A1	1-01 *	H						1	TWP	7-1/8		31
BG6	A	D01M2	1-02 *	X										31
BG6	A		1									7-1/8		31
BG6	B	D01N2	1-01 *	P						1		0-5/8		32
BG6	B	D02M2	1-02 *	P										32
BG6	B		1									0-5/8		32
BG6	C	D02N2	1-01 *	P						1		0-5/8		33
BG6	C	D03M2	1-02 *	P										33
BG6	C		1									0-5/8		33
BG6	D	D03N2	1-01 *	P						1		0-5/8		34
BG6	D	D04M2	1-02 *	P										34
BG6	D		1									0-5/8		34
BG6	E	D04N2	1-01 *	P						1		0-5/8		35
BG6	E	D05M2	1-02 *	P										35
BG6	E		1									0-5/8		35
BG6	F	D05N2	1-01 *	P						1		0-5/8		36
BG6	F	D06M2	1-02 *	P										36
BG6	F		1									0-5/8		36
BG6	H	D06N2	1-01 *	P						1		0-5/8		37
BG6	H	D07M2	1-02 *	P										37
BG6	H		1									0-5/8		37
BG6	J	D07N2	1-01 *	P						1		0-5/8		38
BG6	J	D08M2	1-02 *	P										38
BG6	J		1									0-5/8		38
BG6	K	D08N2	1-01 *	P						1		0-5/8		39
BG6	K	D09M2	1-02 *	P										39
BG6	K		1									0-5/8		39
BG6	L	B09A1	1-01 *	H						1	TWP	7-3/8		40
BG6	L	D09N2	1-02 *	X										40
BG6	L		1									7-3/8		40

DD11P,C RUN NAME	VGWRAP 35(102)=1 A/P PIN NAME	03-JUN-77 ORDER PIN ORDER	BAY = Q ORDER	DRAW RV RG Y OPT	X Z	REMARKS	10-Jul-78	9:17 NC LENGTH FLAG	PAGE 7 EXCEPTIONS	RUN NUMBER
BG7 A	A01V1	1-01 *	H		1	TWP		7-3/8		41
BG7 A	D01K2	1-02 *	X							41
BG7 A		1						7-3/8		41
BG7 B	D01L2	1-01 *	P		1			0-5/8		42
BG7 B	D02K2	1-02 *	P							42
BG7 B		1						0-5/8		42
BG7 C	D02L2	1-01 *	P		1			0-5/8		43
BG7 C	D03K2	1-02 *	P							43
BG7 C		1						0-5/8		43
BG7 D	D03L2	1-01 *	P		1			0-5/8		44
BG7 D	D04K2	1-02 *	P							44
BG7 D		1						0-5/8		44
BG7 E	D04L2	1-01 *	P		1			0-5/8		45
BG7 E	D05K2	1-02 *	P							45
BG7 E		1						0-5/8		45
BG7 F	D05L2	1-01 *	P		1			0-5/8		46
BG7 F	D06K2	1-02 *	P							46
BG7 F		1						0-5/8		46
BG7 H	D06L2	1-01 *	P		1			0-5/8		47
BG7 H	D07K2	1-02 *	X							47
BG7 H		1						0-5/8		47
BG7 J	D07L2	1-01 *	P		1			0-5/8		48
BG7 J	D08K2	1-02 *	P							48
BG7 J		1						0-5/8		48
BG7 K	D08L2	1-01 *	P		1			0-5/8		49
BG7 K	D09K2	1-02 *	P							49
BG7 K		1						0-5/8		49
BG7 L	A09V1	1-01 *	H		1	TWP		7-5/8		50
BG7 L	D09L2	1-02 *	X							50
BG7 L		1						7-5/8		50

DD11P,C
RUN NAME

VGWRAP 35(102)-1 03-JUN-77
A/P PIN ORDER BAY - Q
NAME PIN ORDER

DRAW RV RG Y X Z
OPT

REMARKS

10-JUL-78

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NC LENGTH EXCEPTIONS
FLAG

RUN
NUMBER

BR	NAME	ORDER	BAY	Q	DRAW	RV	RG	Y	X	Z	REMARKS	NC LENGTH FLAG	EXCEPTIONS	RUN NUMBER
BR4	L	B01D2	1-01 *							2		0-7/8		51
BR4	L	B02D2	1-02 *							1		0-7/8		51
BR4	L	B03D2	1-03 *							2		0-7/8		51
BR4	L	B04D2	1-04 *							1		6-5/8		51
BR4	L	D03H2	1-05 *	P						2		0-7/8		51
BR4	L	D04H2	1-06 *	P						1		0-7/8		51
BR4	L	D05H2	1-07 *	P						2		0-7/8		51
BR4	L	D06H2	1-08 *	P						1		0-7/8		51
BR4	L	D07H2	1-09 *	P						2		0-7/8		51
BR4	L	D08H2	1-10 *	P						1		0-7/8		51
BR4	L	D09H2	1-11 *							2		7-7/8		51
BR4	L	B05D2	1-12 *							1		0-7/8		51
BR4	L	B06D2	1-13 *							2		0-7/8		51
BR4	L	B07D2	1-14 *							1		0-7/8		51
BR4	L	B08D2	1-15 *							2		0-7/8		51
BR4	L	B09D2	1-16 *									0-7/8		51
BR4	L	1										25-7/8		51
BR5	L	B01C1	1-01 *	P						1		0-7/8		52
BR5	L	B02C1	1-02 *	P						2		0-7/8		52
BR5	L	B03C1	1-03 *	P						1		0-7/8		52
BR5	L	B04C1	1-04 *							2		6-1/8		52
BR5	L	D03F2	1-05 *	P						1		0-7/8		52
BR5	L	D04F2	1-06 *	P						2		0-7/8		52
BR5	L	D05F2	1-07 *	P						1		0-7/8		52
BR5	L	D06F2	1-08 *	P						2		0-7/8		52
BR5	L	D07F2	1-09 *	P						1		0-7/8		52
BR5	L	D08F2	1-10 *	P						2		0-7/8		52
BR5	L	D09F2	1-11 *							1		8-3/8		52
BR5	L	B05C1	1-12 *	P						2		0-7/8		52
BR5	L	B06C1	1-13 *	P						1		0-7/8		52
BR5	L	B07C1	1-14 *	P						2		0-7/8		52
BR5	L	B08C1	1-15 *	P						1		0-7/8		52
BR5	L	B09C1	1-16 *	P								0-7/8		52
BR5	L	1										25-7/8		52
BR6	L	A01U2	1-01 *							2		0-7/8		53
BR6	L	A02U2	1-02 *							1		0-7/8		53
BR6	L	A03U2	1-03 *							2		0-7/8		53
BR6	L	A04U2	1-04 *							1		7-3/8		53
BR6	L	D03E2	1-05 *	P						2		0-7/8		53
BR6	L	D04E2	1-06 *	P						1		0-7/8		53
BR6	L	D05E2	1-07 *	P						2		0-7/8		53
BR6	L	D06E2	1-08 *	P						1		0-7/8		53
BR6	L	D07E2	1-09 *	P						2		0-7/8		53
BR6	L	D08E2	1-10 *	P						1		0-7/8		53
BR6	L	D09E2	1-11 *							2		8-7/8		53
BR6	L	A05U2	1-12 *							1		0-7/8		53
BR6	L	A06U2	1-13 *							2		0-7/8		53
BR6	L	A07U2	1-14 *							1		0-7/8		53
BR6	L	A08U2	1-15 *							2		0-7/8		53
BR6	L	A09U2	1-16 *									0-7/8		53
BR6	L	1										27-5/8		53

DD11P.C
RUN NAME

VGWRAP 35(102)-1 03-JUN-77
A/P PIN ORDER BAY - Q DRAW RV RC Y X Z
NAME PIN ORDER OPT

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NC LENGTH EXCEPTIONS
FLAG

RUN
NUMBER

BR7 L	A01T2	1-01 *	P							2	0-7/8	54
BR7 L	A02T2	1-02 *	P							1	0-7/8	54
BR7 L	A03T2	1-03 *	P							2	0-7/8	54
BR7 L	A04T2	1-04 *								1	7-3/8	54
BR7 L	D03D2	1-05 *	P							2	0-7/8	54
BR7 L	D04D2	1-06 *	P							1	0-7/8	54
BR7 L	D05D2	1-07 *	P							2	0-7/8	54
BR7 L	D06D2	1-08 *	P							1	0-7/8	54
BR7 L	D07D2	1-09 *	P							2	0-7/8	54
BR7 L	D08D2	1-10 *	P							1	0-7/8	54
BR7 L	D09D2	1-11 *								2	0-7/8	54
BR7 L	A05T2	1-12 *	P							1	0-7/8	54
BR7 L	A06T2	1-13 *	P							2	0-7/8	54
BR7 L	A07T2	1-14 *	P							1	0-7/8	54
BR7 L	A08T2	1-15 *								2	0-7/8	54
BR7 L	A09T2	1-16 *										54
BR7 L		1									27-5/8	54
BUS A00 L	B01H2	1-01 *	P							2	0-7/8	55
BUS A00 L	B02H2	1-02 *	P							1	0-7/8	55
BUS A00 L	B03H2	1-03 *	P							2	0-7/8	55
BUS A00 L	B04H2	1-04 *								1	0-5/8	55
BUS A00 L	E03H2	1-05 *								2	0-7/8	55
BUS A00 L	E04H2	1-06 *								1	0-7/8	55
BUS A00 L	E05H2	1-07 *								2	0-7/8	55
BUS A00 L	E06H2	1-08 *								1	0-7/8	55
BUS A00 L	E07H2	1-09 *								2	0-7/8	55
BUS A00 L	E08H2	1-10 *								1	0-7/8	55
BUS A00 L	E09H2	1-11 *								2	10-1/8	55
BUS A00 L	B05H2	1-12 *	P							1	0-7/8	55
BUS A00 L	B06H2	1-13 *	P							2	0-7/8	55
BUS A00 L	B07H2	1-14 *	P							1	0-7/8	55
BUS A00 L	B08H2	1-15 *	P							2	0-7/8	55
BUS A00 L	B09H2	1-16 *	P									55
BUS A00 L		1									30-1/8	55
BUS A01 L	B01H1	1-01 *	P							2	0-7/8	56
BUS A01 L	B02H1	1-02 *	P							1	0-7/8	56
BUS A01 L	B03H1	1-03 *	P							2	0-7/8	56
BUS A01 L	B04H1	1-04 *								1	0-5/8	56
BUS A01 L	E03H1	1-05 *	P							2	0-7/8	56
BUS A01 L	E04H1	1-06 *	P							1	0-7/8	56
BUS A01 L	E05H1	1-07 *	P							2	0-7/8	56
BUS A01 L	E06H1	1-08 *	P							1	0-7/8	56
BUS A01 L	E07H1	1-09 *	P							2	0-7/8	56
BUS A01 L	E08H1	1-10 *	P							1	0-7/8	56
BUS A01 L	E09H1	1-11 *								2	10-1/8	56
BUS A01 L	B05H1	1-12 *	P							1	0-7/8	56
BUS A01 L	B06H1	1-13 *	P							2	0-7/8	56
BUS A01 L	B07H1	1-14 *	P							1	0-7/8	56
BUS A01 L	B08H1	1-15 *	P							2	0-7/8	56
BUS A01 L	B09H1	1-16 *	P									56
BUS A01 L		1									30-1/8	56

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RUN NAME

VGWRAP 35(102)-1 03-JUN-77
A/P PIN ORDER BAY - Q
NAME PIN ORDER

DRAW RV RG Y X Z
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NC LENGTH EXCEPTIONS
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RUN
NUMBER

BUS A02 L	B01J2	1-01 *	P							2		0-7/8	57
BUS A02 L	B02J2	1-02 *	P							1		0-7/8	57
BUS A02 L	B03J2	1-03 *	P							2		0-7/8	57
BUS A02 L	B04J2	1-04 *								1		8-5/8	57
BUS A02 L	E03F1	1-05 *	P							2		0-7/8	57
BUS A02 L	E04F1	1-06 *	P							1		0-7/8	57
BUS A02 L	E05F1	1-07 *	P							2		0-7/8	57
BUS A02 L	E06F1	1-08 *	P							1		0-7/8	57
BUS A02 L	E07F1	1-09 *	P							2		0-7/8	57
BUS A02 L	E08F1	1-10 *	P							1		0-7/8	57
BUS A02 L	E09F1	1-11 *								2		9-5/8	57
BUS A02 L	B05J2	1-12 *	P							1		0-7/8	57
BUS A02 L	B06J2	1-13 *	P							2		0-7/8	57
BUS A02 L	B07J2	1-14 *	P							1		0-7/8	57
BUS A02 L	B08J2	1-15 *	P							2		0-7/8	57
BUS A02 L	B09J2	1-16 *	P										57
BUS A02 L		1										29-5/8	57
BUS A03 L	B01J1	1-01 *	P							1		0-7/8	58
BUS A03 L	B02J1	1-02 *	P							2		0-7/8	58
BUS A03 L	B03J1	1-03 *	P							1		0-7/8	58
BUS A03 L	B04J1	1-04 *								2		9-5/8	58
BUS A03 L	E03V2	1-05 *	P							1		0-7/8	58
BUS A03 L	E04V2	1-06 *	P							2		0-7/8	58
BUS A03 L	E05V2	1-07 *	P							1		0-7/8	58
BUS A03 L	E06V2	1-08 *	P							2		0-7/8	58
BUS A03 L	E07V2	1-09 *	P							1		0-7/8	58
BUS A03 L	E08V2	1-10 *	P							2		0-7/8	58
BUS A03 L	E09V2	1-11 *								1		11-5/8	58
BUS A03 L	B05J1	1-12 *	P							2		0-7/8	58
BUS A03 L	B06J1	1-13 *	P							1		0-7/8	58
BUS A03 L	B07J1	1-14 *	P							2		0-7/8	58
BUS A03 L	B08J1	1-15 *	P							1		0-7/8	58
BUS A03 L	B09J1	1-16 *	P										58
BUS A03 L		1										32-5/8	58
BUS A04 L	B01K2	1-01 *	P							2		0-7/8	59
BUS A04 L	B02K2	1-02 *	P							1		0-7/8	59
BUS A04 L	B03K2	1-03 *	P							2		0-7/8	59
BUS A04 L	B04K2	1-04 *								1		9-5/8	59
BUS A04 L	E03U2	1-05 *	P							2		0-7/8	59
BUS A04 L	E04U2	1-06 *	P							1		0-7/8	59
BUS A04 L	E05U2	1-07 *	P							2		0-7/8	59
BUS A04 L	E06U2	1-08 *	P							1		0-7/8	59
BUS A04 L	E07U2	1-09 *	P							2		0-7/8	59
BUS A04 L	E08U2	1-10 *	P							1		0-7/8	59
BUS A04 L	E09U2	1-11 *								2		0-7/8	59
BUS A04 L	B05K2	1-12 *	P							1		11-1/8	59
BUS A04 L	B06K2	1-13 *	P							2		0-7/8	59
BUS A04 L	B07K2	1-14 *	P							1		0-7/8	59
BUS A04 L	B08K2	1-15 *	P							2		0-7/8	59
BUS A04 L	B09K2	1-16 *	P										59
BUS A04 L		1										32-1/8	59

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NC LENGTH EXCEPTIONS
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RUN
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A/P	PIN	ORDER	BAY	Q	DRAW	RV	RG	Y	X	Z	REMARKS	NC	LENGTH	EXCEPTIONS	RUN
	NAME	PIN	ORDER		OPT							FLAG			NUMBER
BUS	A05	L	B01K1	1-01	*	P				1				0-7/8	60
BUS	A05	L	B02K1	1-02	*	P				2				0-7/8	60
BUS	A05	L	B03K1	1-03	*	P				1				0-7/8	60
BUS	A05	L	B04K1	1-04	*	P				2				9-5/8	60
BUS	A05	L	E03V1	1-05	*	P				1				0-7/8	60
BUS	A05	L	E04V1	1-06	*	P				2				0-7/8	60
BUS	A05	L	E05V1	1-07	*	P				1				0-7/8	60
BUS	A05	L	E06V1	1-08	*	P				2				0-7/8	60
BUS	A05	L	E07V1	1-09	*	P				1				0-7/8	60
BUS	A05	L	E08V1	1-10	*	P				2				0-7/8	60
BUS	A05	L	E09V1	1-11	*	P				1				11-3/8	60
BUS	A05	L	B05K1	1-12	*	P				2				0-7/8	60
BUS	A05	L	B06K1	1-13	*	P				1				0-7/8	60
BUS	A05	L	B07K1	1-14	*	P				2				0-7/8	60
BUS	A05	L	B08K1	1-15	*	P				1				0-7/8	60
BUS	A05	L	B09K1	1-16	*	P									60
BUS	A05	L		1										32-3/8	60
BUS	A06	L	B01L2	1-01	*	P				2				0-7/8	61
BUS	A06	L	B02L2	1-02	*	P				1				0-7/8	61
BUS	A06	L	B03L2	1-03	*	P				2				0-7/8	61
BUS	A06	L	B04L2	1-04	*	P				1				9-7/8	61
BUS	A06	L	E03U1	1-05	*	P				2				0-7/8	61
BUS	A06	L	E04U1	1-06	*	P				1				0-7/8	61
BUS	A06	L	E05U1	1-07	*	P				2				0-7/8	61
BUS	A06	L	E06U1	1-08	*	P				1				0-7/8	61
BUS	A06	L	E07U1	1-09	*	P				2				0-7/8	61
BUS	A06	L	E08U1	1-10	*	P				1				0-7/8	61
BUS	A06	L	E09U1	1-11	*	P				2				10-5/8	61
BUS	A06	L	B05L2	1-12	*	P				1				0-7/8	61
BUS	A06	L	B06L2	1-13	*	P				2				0-7/8	61
BUS	A06	L	B07L2	1-14	*	P				1				0-7/8	61
BUS	A06	L	B08L2	1-15	*	P				2				0-7/8	61
BUS	A06	L	B09L2	1-16	*	P									61
BUS	A06	L		1										31-7/8	61
BUS	A07	L	B01L1	1-01	*	P				1				0-7/8	62
BUS	A07	L	B02L1	1-02	*	P				2				0-7/8	62
BUS	A07	L	B03L1	1-03	*	P				1				0-7/8	62
BUS	A07	L	B04L1	1-04	*	P				2				0-7/8	62
BUS	A07	L	E03P2	1-05	*	P				1				0-7/8	62
BUS	A07	L	E04P2	1-06	*	P				2				0-7/8	62
BUS	A07	L	E05P2	1-07	*	P				1				0-7/8	62
BUS	A07	L	E06P2	1-08	*	P				2				0-7/8	62
BUS	A07	L	E07P2	1-09	*	P				1				0-7/8	62
BUS	A07	L	E08P2	1-10	*	P				2				0-7/8	62
BUS	A07	L	E09P2	1-11	*	P				1				10-5/8	62
BUS	A07	L	B05L1	1-12	*	P				2				0-7/8	62
BUS	A07	L	B06L1	1-13	*	P				1				0-7/8	62
BUS	A07	L	B07L1	1-14	*	P				2				0-7/8	62
BUS	A07	L	B08L1	1-15	*	P				1				0-7/8	62
BUS	A07	L	B09L1	1-16	*	P									62
BUS	A07	L		1										30-7/8	62

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A/P PIN ORDER BAY - Q
NAME PIN ORDER

DRAW RV RG Y X Z
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NC LENGTH EXCEPTIONS
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RUN
NUMBER

A/P	PIN	ORDER	BAY -	Q	DRAW	RV	RG	Y	X	Z	REMARKS	NC	LENGTH	EXCEPTIONS	RUN
NAME	PIN	ORDER	ORDER		OPT							FLAG			NUMBER
BUS A00 L	B01M2		1-01 *	P						1			0-7/8		63
BUS A00 L	B02M2		1-02 *	P						2			0-7/8		63
BUS A00 L	B03M2		1-03 *	P						1			0-7/8		63
BUS A00 L	B04M2		1-04 *							2			0-5/8		63
BUS A00 L	E03N2		1-05 *	P						1			0-7/8		63
BUS A00 L	E04N2		1-06 *	P						2			0-7/8		63
BUS A00 L	E05N2		1-07 *	P						1			0-7/8		63
BUS A00 L	E06N2		1-08 *	P						2			0-7/8		63
BUS A00 L	E07N2		1-09 *	P						1			0-7/8		63
BUS A00 L	E08N2		1-10 *	P						2			0-7/8		63
BUS A00 L	E09N2		1-11 *							1			10-3/8		63
BUS A00 L	B05M2		1-12 *	P						2			0-7/8		63
BUS A00 L	B06M2		1-13 *	P						1			0-7/8		63
BUS A00 L	B07M2		1-14 *	P						2			0-7/8		63
BUS A00 L	B08M2		1-15 *	P						1			0-7/8		63
BUS A00 L	B09M2		1-16 *	P											63
BUS A00 L			1										30-3/8		63
BUS A09 L	B01M1		1-01 *	P						1			0-7/8		64
BUS A09 L	B02M1		1-02 *	P						2			0-7/8		64
BUS A09 L	B03M1		1-03 *	P						1			0-7/8		64
BUS A09 L	B04M1		1-04 *							2			0-7/8		64
BUS A09 L	E03R1		1-05 *	P						1			0-7/8		64
BUS A09 L	E04R1		1-06 *	P						2			0-7/8		64
BUS A09 L	E05R1		1-07 *	P						1			0-7/8		64
BUS A09 L	E06R1		1-08 *	P						2			0-7/8		64
BUS A09 L	E07R1		1-09 *	P						1			0-7/8		64
BUS A09 L	E08R1		1-10 *	P						2			0-7/8		64
BUS A09 L	E09R1		1-11 *							1			10-5/8		64
BUS A09 L	B05M1		1-12 *	P						2			0-7/8		64
BUS A09 L	B06M1		1-13 *	P						1			0-7/8		64
BUS A09 L	B07M1		1-14 *	P						2			0-7/8		64
BUS A09 L	B08M1		1-15 *	P						1			0-7/8		64
BUS A09 L	B09M1		1-16 *	P											64
BUS A09 L			1										30-7/8		64
BUS A10 L	B01N2		1-01 *	P						2			0-7/8		65
BUS A10 L	B02N2		1-02 *	P						1			0-7/8		65
BUS A10 L	B03N2		1-03 *	P						2			0-7/8		65
BUS A10 L	B04N2		1-04 *							1			9-1/8		65
BUS A10 L	E03P1		1-05 *	P						2			0-7/8		65
BUS A10 L	E04P1		1-06 *	P						1			0-7/8		65
BUS A10 L	E05P1		1-07 *	P						2			0-7/8		65
BUS A10 L	E06P1		1-08 *	P						1			0-7/8		65
BUS A10 L	E07P1		1-09 *	P						2			0-7/8		65
BUS A10 L	E08P1		1-10 *	P						1			0-7/8		65
BUS A10 L	E09P1		1-11 *							2			9-7/8		65
BUS A10 L	B05N2		1-12 *	P						1			0-7/8		65
BUS A10 L	B06N2		1-13 *	P						2			0-7/8		65
BUS A10 L	B07N2		1-14 *	P						1			0-7/8		65
BUS A10 L	B08N2		1-15 *	P						2			0-7/8		65
BUS A10 L	B09N2		1-16 *	P											65
BUS A10 L			1										30-3/8		65

DD11P.C
RUN NAME

VGWRAP 35(102)=1 03-JUN-77
A/P PIN ORDER BAY = Q
NAME PIN ORDER

DRAW RV RG Y X Z
OPT

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NC LENGTH EXCEPTIONS
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DD11P.C RUN NAME	VGWRAP 35(102)=1 03-JUN-77 A/P PIN ORDER BAY = Q NAME PIN ORDER	DRAW RV RG Y X Z OPT	REMARKS	10-JUL-78	9117 PAGE 13 NC LENGTH EXCEPTIONS FLAG	RUN NUMBER
BUS A11 L	B01N1	1-01 * P		2	0-7/8	66
BUS A11 L	B02N1	1-02 * P		1	0-7/8	66
BUS A11 L	B03N1	1-03 * P		2	0-7/8	66
BUS A11 L	B04N1	1-04 *		1	8-3/8	66
BUS A11 L	E03L1	1-05 * P		2	0-7/8	66
BUS A11 L	E04L1	1-06 * P		1	0-7/8	66
BUS A11 L	E05L1	1-07 * P		2	0-7/8	66
BUS A11 L	E06L1	1-08 * P		1	0-7/8	66
BUS A11 L	E07L1	1-09 * P		2	0-7/8	66
BUS A11 L	E08L1	1-10 * P		1	0-7/8	66
BUS A11 L	E09L1	1-11 *		2	9-7/8	66
BUS A11 L	B05N1	1-12 * P		1	0-7/8	66
BUS A11 L	B06N1	1-13 * P		2	0-7/8	66
BUS A11 L	B07N1	1-14 * P		1	0-7/8	66
BUS A11 L	B08N1	1-15 * P		2	0-7/8	66
BUS A11 L	B09N1	1-16 * P				66
BUS A11 L		1			29-5/8	66
BUS A12 L	B01P2	1-01 * P		2	0-7/8	67
BUS A12 L	B02P2	1-02 * P		1	0-7/8	67
BUS A12 L	B03P2	1-03 * P		2	0-7/8	67
BUS A12 L	B04P2	1-04 *		1	7-5/8	67
BUS A12 L	E03C1	1-05 * P		2	0-7/8	67
BUS A12 L	E04C1	1-06 * P		1	0-7/8	67
BUS A12 L	E05C1	1-07 * P		2	0-7/8	67
BUS A12 L	E06C1	1-08 * P		1	0-7/8	67
BUS A12 L	E07C1	1-09 * P		2	0-7/8	67
BUS A12 L	E08C1	1-10 * P		1	0-7/8	67
BUS A12 L	E09C1	1-11 *		2	8-5/8	67
BUS A12 L	B05P2	1-12 * P		1	0-7/8	67
BUS A12 L	B06P2	1-13 * P		2	0-7/8	67
BUS A12 L	B07P2	1-14 * P		1	0-7/8	67
BUS A12 L	B08P2	1-15 * P		2	0-7/8	67
BUS A12 L	B09P2	1-16 * P				67
BUS A12 L		1			27-5/8	67
BUS A13 L	B01P1	1-01 * P		1	0-7/8	68
BUS A13 L	B02P1	1-02 * P		2	0-7/8	68
BUS A13 L	B03P1	1-03 * P		1	0-7/8	68
BUS A13 L	B04P1	1-04 *		2	7-7/8	68
BUS A13 L	E03K2	1-05 * P		1	0-7/8	68
BUS A13 L	E04K2	1-06 * P		2	0-7/8	68
BUS A13 L	E05K2	1-07 * P		1	0-7/8	68
BUS A13 L	E06K2	1-08 * P		2	0-7/8	68
BUS A13 L	E07K2	1-09 * P		1	0-7/8	68
BUS A13 L	E08K2	1-10 * P		2	0-7/8	68
BUS A13 L	E09K2	1-11 *		1	9-7/8	68
BUS A13 L	B05P1	1-12 * P		2	0-7/8	68
BUS A13 L	B06P1	1-13 * P		1	0-7/8	68
BUS A13 L	B07P1	1-14 * P		2	0-7/8	68
BUS A13 L	B08P1	1-15 * P		1	0-7/8	68
BUS A13 L	B09P1	1-16 * P				68
BUS A13 L		1			29-1/8	68

DD11P,C
RUN NAME

VGNWRAP 35(102)-1 03-JUN-77
A/P PIN ORDER BAY = Q
NAME PIN ORDER

DRAW RV RG Y X Z
OPT

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NC LENGTH EXCEPTIONS
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BUS A14 L	B01R2	1-01 *	P							2	0-7/8	69
BUS A14 L	B02R2	1-02 *	P							1	0-7/8	69
BUS A14 L	B03R2	1-03 *	P							2	0-7/8	69
BUS A14 L	B04R2	1-04 *								1	8-3/8	69
BUS A14 L	E03K1	1-05 *	P							2	0-7/8	69
BUS A14 L	E04K1	1-06 *	P							1	0-7/8	69
BUS A14 L	E05K1	1-07 *	P							2	0-7/8	69
BUS A14 L	E06K1	1-08 *	P							1	0-7/8	69
BUS A14 L	E07K1	1-09 *	P							2	0-7/8	69
BUS A14 L	E08K1	1-10 *	P							1	0-7/8	69
BUS A14 L	E09K1	1-11 *								2	9-1/8	69
BUS A14 L	B05R2	1-12 *	P							1	0-7/8	69
BUS A14 L	B06R2	1-13 *	P							2	0-7/8	69
BUS A14 L	B07R2	1-14 *	P							1	0-7/8	69
BUS A14 L	B08R2	1-15 *	P							2	0-7/8	69
BUS A14 L	B09R2	1-16 *	P									69
BUS A14 L		1									28-7/8	69
BUS A15 L	B01R1	1-01 *	P							1	0-7/8	70
BUS A15 L	B02R1	1-02 *	P							2	0-7/8	70
BUS A15 L	B03R1	1-03 *	P							1	0-7/8	70
BUS A15 L	B04R1	1-04 *								2	7-1/8	70
BUS A15 L	E03D2	1-05 *								1	0-7/8	70
BUS A15 L	E04D2	1-06 *								2	0-7/8	70
BUS A15 L	E05D2	1-07 *								1	0-7/8	70
BUS A15 L	E06D2	1-08 *								2	0-7/8	70
BUS A15 L	E07D2	1-09 *								1	0-7/8	70
BUS A15 L	E08D2	1-10 *								2	0-7/8	70
BUS A15 L	E09D2	1-11 *								1	9-1/8	70
BUS A15 L	B05R1	1-12 *	P							2	0-7/8	70
BUS A15 L	B06R1	1-13 *	P							1	0-7/8	70
BUS A15 L	B07R1	1-14 *	P							2	0-7/8	70
BUS A15 L	B08R1	1-15 *	P							1	0-7/8	70
BUS A15 L	B09R1	1-16 *	P									70
BUS A15 L		1									27-5/8	70
BUS A16 L	B01S2	1-01 *	P							2	0-7/8	71
BUS A16 L	B02S2	1-02 *	P							1	0-7/8	71
BUS A16 L	B03S2	1-03 *	P							2	0-7/8	71
BUS A16 L	B04S2	1-04 *								1	7-3/8	71
BUS A16 L	E03E2	1-05 *	P							2	0-7/8	71
BUS A16 L	E04E2	1-06 *	P							1	0-7/8	71
BUS A16 L	E05E2	1-07 *	P							2	0-7/8	71
BUS A16 L	E06E2	1-08 *	P							1	0-7/8	71
BUS A16 L	E07E2	1-09 *	P							2	0-7/8	71
BUS A16 L	E08E2	1-10 *	P							1	0-7/8	71
BUS A16 L	E09E2	1-11 *								2	8-7/8	71
BUS A16 L	B05S2	1-12 *	P							1	0-7/8	71
BUS A16 L	B06S2	1-13 *	P							2	0-7/8	71
BUS A16 L	B07S2	1-14 *	P							1	0-7/8	71
BUS A16 L	B08S2	1-15 *	P							2	0-7/8	71
BUS A16 L	B09S2	1-16 *	P									71
BUS A16 L		1									27-5/8	71

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DD11P.C
RUN NAME

VGWRAP 35(102)-1 03-JUN-77
A/P PIN ORDER BAY = Q
NAME PIN ORDER

DRAW RV RG Y X Z
OPT

REMARKS

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NC LENGTH EXCEPTIONS
FLAG

RUN
NUMBER

BUS A17 L	B01S1	1-01 *	P									0-7/8	72
BUS A17 L	B02S1	1-02 *	P									0-7/8	72
BUS A17 L	B03S1	1-03 *	P									0-7/8	72
BUS A17 L	B04S1	1-04 *										7-1/8	72
BUS A17 L	E03D1	1-05 *	P									0-7/8	72
BUS A17 L	E04D1	1-06 *	P									0-7/8	72
BUS A17 L	E05D1	1-07 *	P									0-7/8	72
BUS A17 L	E06D1	1-08 *	P									0-7/8	72
BUS A17 L	E07D1	1-09 *	P									0-7/8	72
BUS A17 L	E08D1	1-10 *	P									0-7/8	72
BUS A17 L	E09D1	1-11 *										8-7/8	72
BUS A17 L	B05S1	1-12 *	P									0-7/8	72
BUS A17 L	B06S1	1-13 *	P									0-7/8	72
BUS A17 L	B07S1	1-14 *	P									0-7/8	72
BUS A17 L	B08S1	1-15 *	P									0-7/8	72
BUS A17 L	B09S1	1-16 *	P									0-7/8	72
BUS A17 L		1										27-3/8	72
BUS D00 L	A01C1	1-01 *	P									0-7/8	73
BUS D00 L	A02C1	1-02 *										0-7/8	73
BUS D00 L	A03C1	1-03 *										0-7/8	73
BUS D00 L	A04C1	1-04 *										7-3/8	73
BUS D00 L	C03S2	1-05 *										0-7/8	73
BUS D00 L	C04S2	1-06 *										0-7/8	73
BUS D00 L	C05S2	1-07 *										0-7/8	73
BUS D00 L	C06S2	1-08 *										0-7/8	73
BUS D00 L	C07S2	1-09 *										0-7/8	73
BUS D00 L	C08S2	1-10 *										0-7/8	73
BUS D00 L	C09S2	1-11 *										9-3/8	73
BUS D00 L	A05C1	1-12 *										0-7/8	73
BUS D00 L	A06C1	1-13 *										0-7/8	73
BUS D00 L	A07C1	1-14 *										0-7/8	73
BUS D00 L	A08C1	1-15 *										0-7/8	73
BUS D00 L	A09C1	1-16 *										0-7/8	73
BUS D00 L		1										28-1/8	73
BUS D01 L	A01D2	1-01 *	P									0-7/8	74
BUS D01 L	A02D2	1-02 *	P									0-7/8	74
BUS D01 L	A03D2	1-03 *	P									0-7/8	74
BUS D01 L	A04D2	1-04 *										7-3/8	74
BUS D01 L	C03R2	1-05 *	P									0-7/8	74
BUS D01 L	C04R2	1-06 *	P									0-7/8	74
BUS D01 L	C05R2	1-07 *	P									0-7/8	74
BUS D01 L	C06R2	1-08 *	P									0-7/8	74
BUS D01 L	C07R2	1-09 *	P									0-7/8	74
BUS D01 L	C08R2	1-10 *	P									0-7/8	74
BUS D01 L	C09R2	1-11 *										8-7/8	74
BUS D01 L	A05D2	1-12 *	P									0-7/8	74
BUS D01 L	A06D2	1-13 *	P									0-7/8	74
BUS D01 L	A07D2	1-14 *	P									0-7/8	74
BUS D01 L	A08D2	1-15 *	P									0-7/8	74
BUS D01 L	A09D2	1-16 *	P									0-7/8	74
BUS D01 L		1										27-5/8	74

DD11P.C
RUN NAME

VGWRAP 35(102)-1 03-JUN-77
A/P PIN ORDER BAY - G
NAME PIN ORDER

DRAW RV RG Y X Z
OPT

REMARKS

10-JUL-78

9117 PAGE 16
NC LENGTH EXCEPTIONS
FLAG

RUN
NUMBER

DD11P.C RUN NAME	VGWRAP 35(102)-1 03-JUN-77 A/P PIN ORDER BAY - G NAME PIN ORDER	DRAW RV RG Y X Z OPT	REMARKS	10-JUL-78	9117 PAGE 16 NC LENGTH EXCEPTIONS FLAG	RUN NUMBER
BUS D02 L	A01D1	1-01 * P			0-7/8	75
BUS D02 L	A02D1	1-02 * P			0-7/8	75
BUS D02 L	A03D1	1-03 * P			0-7/8	75
BUS D02 L	A04D1	1-04 * P			7-5/8	75
BUS D02 L	C03U2	1-05 * P			0-7/8	75
BUS D02 L	C04U2	1-06 * P			0-7/8	75
BUS D02 L	C05U2	1-07 * P			6-7/8	75
BUS D02 L	F05E2	1-08 * P			1-3/8	75
BUS D02 L	F03E2	1-09 * P			0-7/8	75
BUS D02 L	F04E2	1-10 * P			1-3/8	75
BUS D02 L	F06E2	1-11 * P			0-7/8	75
BUS D02 L	F07E2	1-12 * P			0-7/8	75
BUS D02 L	F08E2	1-13 * P			0-7/8	75
BUS D02 L	F09E2	1-14 * P			8-3/8	75
BUS D02 L	C06U2	1-15 * P			0-7/8	75
BUS D02 L	C07U2	1-16 * P			0-7/8	75
BUS D02 L	C08U2	1-17 * P			0-7/8	75
BUS D02 L	C09U2	1-18 * P			9-3/8	75
BUS D02 L	A05D1	1-19 * P			0-7/8	75
BUS D02 L	A06D1	1-20 * P			0-7/8	75
BUS D02 L	A07D1	1-21 * P			0-7/8	75
BUS D02 L	A08D1	1-22 * P			0-7/8	75
BUS D02 L	A09D1	1-23 * P			0-7/8	75
BUS D02 L		1			49-0/8	75
BUS D03 L	A01E2	1-01 * P			0-7/8	76
BUS D03 L	A02E2	1-02 * P			0-7/8	76
BUS D03 L	A03E2	1-03 * P			0-7/8	76
BUS D03 L	A04E2	1-04 * P			7-3/8	76
BUS D03 L	C03T2	1-05 * P			0-7/8	76
BUS D03 L	C04T2	1-06 * P			0-7/8	76
BUS D03 L	C05T2	1-07 * P			7-7/8	76
BUS D03 L	F05L1	1-08 * P			1-3/8	76
BUS D03 L	F03L1	1-09 * P			0-7/8	76
BUS D03 L	F04L1	1-10 * P			1-3/8	76
BUS D03 L	F06L1	1-11 * P			0-7/8	76
BUS D03 L	F07L1	1-12 * P			0-7/8	76
BUS D03 L	F08L1	1-13 * P			0-7/8	76
BUS D03 L	F09L1	1-14 * P			8-7/8	76
BUS D03 L	C06T2	1-15 * P			0-7/8	76
BUS D03 L	C07T2	1-16 * P			0-7/8	76
BUS D03 L	C08T2	1-17 * P			0-7/8	76
BUS D03 L	C09T2	1-18 * P			9-1/8	76
BUS D03 L	A05E2	1-19 * P			0-7/8	76
BUS D03 L	A06E2	1-20 * P			0-7/8	76
BUS D03 L	A07E2	1-21 * P			0-7/8	76
BUS D03 L	A08E2	1-22 * P			0-7/8	76
BUS D03 L	A09E2	1-23 * P			0-7/8	76
BUS D03 L		1			50-0/8	76

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DD11P.C
RUN NAME

VGWRAP 35(102)-1 03-JUN-77
A/P PIN ORDER BAY - Q DRAW RV RG Y X Z
NAME PIN ORDER OPT

10-JUL-78

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NC LENGTH EXCEPTIONS
FLAG

RUN
NUMBER

DD11P.C RUN NAME	VGWRAP 35(102)-1 A/P PIN ORDER NAME PIN ORDER	03-JUN-77 BAY - Q ORDER	DRAW RV RG Y X Z OPT	REMARKS	10-JUL-78	9117 PAGE 17 NC LENGTH EXCEPTIONS FLAG	RUN NUMBER
BUS D04 L	A01E1	1-01 *	P			0-7/8	77
BUS D04 L	A02E1	1-02 *	P			0-7/8	77
BUS D04 L	A03E1	1-03 *	P			0-7/8	77
BUS D04 L	A04E1	1-04 *	P			6-5/8	77
BUS D04 L	C03N2	1-05 *	P			0-7/8	77
BUS D04 L	C04N2	1-06 *	P			0-7/8	77
BUS D04 L	C05N2	1-07 *	P			8-3/8	77
BUS D04 L	F05N2	1-08 *	P			1-3/8	77
BUS D04 L	F03N2	1-09 *	P			0-7/8	77
BUS D04 L	F04N2	1-10 *	P			1-3/8	77
BUS D04 L	F06N2	1-11 *	P			0-7/8	77
BUS D04 L	F07N2	1-12 *	P			0-7/8	77
BUS D04 L	F08N2	1-13 *	P			0-7/8	77
BUS D04 L	F09N2	1-14 *	P			9-7/8	77
BUS D04 L	C06N2	1-15 *	P			0-7/8	77
BUS D04 L	C07N2	1-16 *	P			0-7/8	77
BUS D04 L	C08N2	1-17 *	P			0-7/8	77
BUS D04 L	C09N2	1-18 *	P			8-7/8	77
BUS D04 L	A05E1	1-19 *	P			0-7/8	77
BUS D04 L	A06E1	1-20 *	P			0-7/8	77
BUS D04 L	A07E1	1-21 *	P			0-7/8	77
BUS D04 L	A08E1	1-22 *	P			0-7/8	77
BUS D04 L	A09E1	1-23 *	P			0-7/8	77
BUS D04 L		1				50-4/8	77
BUS D05 L	A01F2	1-01 *	P			0-7/8	78
BUS D05 L	A02F2	1-02 *	P			0-7/8	78
BUS D05 L	A03F2	1-03 *	P			0-7/8	78
BUS D05 L	A04F2	1-04 *	P			7-1/8	78
BUS D05 L	C03P2	1-05 *	P			0-7/8	78
BUS D05 L	C04P2	1-06 *	P			0-7/8	78
BUS D05 L	C05P2	1-07 *	P			7-5/8	78
BUS D05 L	F05F1	1-08 *	P			1-3/8	78
BUS D05 L	F03F1	1-09 *	P			0-7/8	78
BUS D05 L	F04F1	1-10 *	P			1-3/8	78
BUS D05 L	F06F1	1-11 *	P			0-7/8	78
BUS D05 L	F07F1	1-12 *	P			0-7/8	78
BUS D05 L	F08F1	1-13 *	P			0-7/8	78
BUS D05 L	F09F1	1-14 *	P			8-7/8	78
BUS D05 L	C06P2	1-15 *	P			0-7/8	78
BUS D05 L	C07P2	1-16 *	P			0-7/8	78
BUS D05 L	C08P2	1-17 *	P			0-7/8	78
BUS D05 L	C09P2	1-18 *	P			8-3/8	78
BUS D05 L	A05F2	1-19 *	P			0-7/8	78
BUS D05 L	A06F2	1-20 *	P			0-7/8	78
BUS D05 L	A07F2	1-21 *	P			0-7/8	78
BUS D05 L	A08F2	1-22 *	P			0-7/8	78
BUS D05 L	A09F2	1-23 *	P			0-7/8	78
BUS D05 L		1				48-6/8	78

DD11P.C
RUN NAME

VGWRAP 35(102)-1 03-JUN-77
A/P PIN ORDER BAY * Q
NAME PIN ORDER

DRAW RV RG Y X Z
OPT

REMARKS

10-JUL-78

9117 PAGE 10
NC LENGTH EXCEPTIONS
FLAG

RUN
NUMBER

A/P	PIN	ORDER	BAY * Q	DRAW	RV	RG	Y	X	Z	REMARKS	10-JUL-78	9117 NC LENGTH FLAG	PAGE 10 EXCEPTIONS	RUN NUMBER
BUS D06 L	A01F1		1-01 * P						1					79
BUS D06 L	A02F1		1-02 * P						2			0-7/8		79
BUS D06 L	A03F1		1-03 * P						1			0-7/8		79
BUS D06 L	A04F1		1-04 *						2			0-7/8		79
BUS D06 L	C03V2		1-05 * P						1			7-3/8		79
BUS D06 L	C04V2		1-06 * P						2			0-7/8		79
BUS D06 L	C05V2		1-07 *						1			0-7/8		79
BUS D06 L	F05F2		1-08 * P						1			6-7/8		79
BUS D06 L	F03F2		1-09 * P						1			1-3/8		79
BUS D06 L	F04F2		1-10 * P						2			0-7/8		79
BUS D06 L	F06F2		1-11 * P						2			1-3/8		79
BUS D06 L	F07F2		1-12 * P						1			0-7/8		79
BUS D06 L	F08F2		1-13 * P						2			0-7/8		79
BUS D06 L	F09F2		1-14 *						1			8-3/8		79
BUS D06 L	C06V2		1-15 * P						2			0-7/8		79
BUS D06 L	C07V2		1-16 * P						1			0-7/8		79
BUS D06 L	C08V2		1-17 * P						2			0-7/8		79
BUS D06 L	C09V2		1-18 *						1			0-7/8		79
BUS D06 L	A05F1		1-19 * P						2			9-3/8		79
BUS D06 L	A06F1		1-20 * P						1			0-7/8		79
BUS D06 L	A07F1		1-21 * P						2			0-7/8		79
BUS D06 L	A08F1		1-22 * P						1			0-7/8		79
BUS D06 L	A09F1		1-23 *						1			0-7/8		79
BUS D06 L			1									48-6/8		79
BUS D07 L	A01H2		1-01 * P						1			0-7/8		80
BUS D07 L	A02H2		1-02 * P						2			0-7/8		80
BUS D07 L	A03H2		1-03 * P						1			0-7/8		80
BUS D07 L	A04H2		1-04 *						2			0-7/8		80
BUS D07 L	C03M2		1-05 * P						1			0-5/8		80
BUS D07 L	C04M2		1-06 * P						2			0-7/8		80
BUS D07 L	C05M2		1-07 *						1			0-7/8		80
BUS D07 L	F05H1		1-08 * P						1			8-1/8		80
BUS D07 L	F03H1		1-09 * P						1			1-3/8		80
BUS D07 L	F04H1		1-10 * P						2			0-7/8		80
BUS D07 L	F06H1		1-11 * P						2			1-3/8		80
BUS D07 L	F07H1		1-12 * P						1			0-7/8		80
BUS D07 L	F08H1		1-13 * P						2			0-7/8		80
BUS D07 L	F09H1		1-14 *						1			0-7/8		80
BUS D07 L	C06M2		1-15 * P						2			9-1/8		80
BUS D07 L	C07M2		1-16 * P						1			0-7/8		80
BUS D07 L	C08M2		1-17 * P						2			0-7/8		80
BUS D07 L	C09M2		1-18 *						1			0-7/8		80
BUS D07 L	A05H2		1-19 * P						2			8-1/8		80
BUS D07 L	A06H2		1-20 * P						1			0-7/8		80
BUS D07 L	A07H2		1-21 * P						2			0-7/8		80
BUS D07 L	A08H2		1-22 * P						1			0-7/8		80
BUS D07 L	A09H2		1-23 *						1			0-7/8		80
BUS D07 L			1									48-6/8		80

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DD11P,C
RUN NAME

VGWRAP 35(102)-1 03-JUN-77
A/P PIN ORDER BAY - Q
NAME PIN ORDER

DRAW RV RG Y X Z
OPT

REMARKS

10-JUL-78

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NC LENGTH EXCEPTIONS
FLAG

RUN
NUMBER

BUS D08 L	A01H1	1-01 *	P							1		0-7/8	81
BUS D08 L	A02H1	1-02 *	P							2		0-7/8	81
BUS D08 L	A03H1	1-03 *	P							1		0-7/8	81
BUS D08 L	A04H1	1-04 *								2		6-1/8	81
BUS D08 L	C03L2	1-05 *	P							1		0-7/8	81
BUS D08 L	C04L2	1-06 *	P							2		0-7/8	81
BUS D08 L	C05L2	1-07 *								1		8-5/8	81
BUS D08 L	F05K1	1-08 *	P							1		1-3/8	81
BUS D08 L	F03K1	1-09 *	P							1		0-7/8	81
BUS D08 L	F04K1	1-10 *	P							2		1-3/8	81
BUS D08 L	F06K1	1-11 *	P							2		0-7/8	81
BUS D08 L	F07K1	1-12 *	P							1		0-7/8	81
BUS D08 L	F08K1	1-13 *	P							2		0-7/8	81
BUS D08 L	F09K1	1-14 *								1		9-3/8	81
BUS D08 L	C06L2	1-15 *	P							2		0-7/8	81
BUS D08 L	C07L2	1-16 *	P							1		0-7/8	81
BUS D08 L	C08L2	1-17 *	P							2		0-7/8	81
BUS D08 L	C09L2	1-18 *								1		8-3/8	81
BUS D08 L	A05H1	1-19 *	P							2		0-7/8	81
BUS D08 L	A06H1	1-20 *	P							1		0-7/8	81
BUS D08 L	A07H1	1-21 *	P							2		0-7/8	81
BUS D08 L	A08H1	1-22 *	P							1		0-7/8	81
BUS D08 L	A09H1	1-23 *											81
BUS D08 L		1										49-2/8	81
BUS D09 L	A01J2	1-01 *	P							2		0-7/8	82
BUS D09 L	A02J2	1-02 *	P							1		0-7/8	82
BUS D09 L	A03J2	1-03 *	P							2		0-7/8	82
BUS D09 L	A04J2	1-04 *								1		6-3/8	82
BUS D09 L	C03K2	1-05 *	P							2		0-7/8	82
BUS D09 L	C04K2	1-06 *	P							1		0-7/8	82
BUS D09 L	C05K2	1-07 *	P							2		0-7/8	82
BUS D09 L	C06K2	1-08 *	P							1		0-7/8	82
BUS D09 L	C07K2	1-09 *	P							2		0-7/8	82
BUS D09 L	C08K2	1-10 *	P							1		0-7/8	82
BUS D09 L	C09K2	1-11 *								2		7-5/8	82
BUS D09 L	A05J2	1-12 *	P							1		0-7/8	82
BUS D09 L	A06J2	1-13 *	P							2		0-7/8	82
BUS D09 L	A07J2	1-14 *	P							1		0-7/8	82
BUS D09 L	A08J2	1-15 *	P									0-7/8	82
BUS D09 L	A09J2	1-16 *	P							2			82
BUS D09 L		1										25-3/8	82

DD11P,C
RUN NAME

VGWRAP 35(102)-1 03-JUN-77
A/P PIN ORDER BAY - Q
NAME PIN ORDER

DRAW RV RG Y X Z
OPT

REMARKS

10-JUL-78

9117 PAGE 20
NC LENGTH EXCEPTIONS
FLAG

RUN
NUMBER

BUS D10 L	A01J1	1-01 *	P						1		0-7/8	83
BUS D10 L	A02J1	1-02 *	P						2		0-7/8	83
BUS D10 L	A03J1	1-03 *	P						1		0-7/8	83
BUS D10 L	A04J1	1-04 *	P						2		5-7/8	83
BUS D10 L	C03J2	1-05 *	P						1		0-7/8	83
BUS D10 L	C04J2	1-06 *	P						2		0-7/8	83
BUS D10 L	C05J2	1-07 *	P						1		0-7/8	83
BUS D10 L	C06J2	1-08 *	P						2		0-7/8	83
BUS D10 L	C07J2	1-09 *	P						1		0-7/8	83
BUS D10 L	C08J2	1-10 *	P						2		0-7/8	83
BUS D10 L	C09J2	1-11 *	P						1		7-7/8	83
BUS D10 L	A05J1	1-12 *	P						2		0-7/8	83
BUS D10 L	A06J1	1-13 *	P						1		0-7/8	83
BUS D10 L	A07J1	1-14 *	P						2		0-7/8	83
BUS D10 L	A08J1	1-15 *	P						1		0-7/8	83
BUS D10 L	A09J1	1-16 *	P									83
BUS D10 L		1									25-1/8	83
BUS D11 L	A01K2	1-01 *	P						2		0-7/8	84
BUS D11 L	A02K2	1-02 *	P						1		0-7/8	84
BUS D11 L	A03K2	1-03 *	P						2		0-7/8	84
BUS D11 L	A04K2	1-04 *	P						1		6-1/8	84
BUS D11 L	C03H1	1-05 *	P						2		0-7/8	84
BUS D11 L	C04H1	1-06 *	P						1		0-7/8	84
BUS D11 L	C05H1	1-07 *	P						2		0-7/8	84
BUS D11 L	C06H1	1-08 *	P						1		0-7/8	84
BUS D11 L	C07H1	1-09 *	P						2		0-7/8	84
BUS D11 L	C08H1	1-10 *	P						1		0-7/8	84
BUS D11 L	C09H1	1-11 *	P						2		7-1/8	84
BUS D11 L	A05K2	1-12 *	P						1		0-7/8	84
BUS D11 L	A06K2	1-13 *	P						2		0-7/8	84
BUS D11 L	A07K2	1-14 *	P						1		0-7/8	84
BUS D11 L	A08K2	1-15 *	P						2		0-7/8	84
BUS D11 L	A09K2	1-16 *	P									84
BUS D11 L		1									24-5/8	84
BUS D12 L	A01K1	1-01 *	P						1		0-7/8	85
BUS D12 L	A02K1	1-02 *	P						2		0-7/8	85
BUS D12 L	A03K1	1-03 *	P						1		0-7/8	85
BUS D12 L	A04K1	1-04 *	P						2		5-5/8	85
BUS D12 L	C03H2	1-05 *	P						1		0-7/8	85
BUS D12 L	C04H2	1-06 *	P						2		0-7/8	85
BUS D12 L	C05H2	1-07 *	P						1		0-7/8	85
BUS D12 L	C06H2	1-08 *	P						2		0-7/8	95
BUS D12 L	C07H2	1-09 *	P						1		0-7/8	85
BUS D12 L	C08H2	1-10 *	P						2		0-7/8	85
BUS D12 L	C09H2	1-11 *	P						1		7-5/8	85
BUS D12 L	A05K1	1-12 *	P						2		0-7/8	85
BUS D12 L	A06K1	1-13 *	P						1		0-7/8	85
BUS D12 L	A07K1	1-14 *	P						2		0-7/8	85
BUS D12 L	A08K1	1-15 *	P						1		0-7/8	85
BUS D12 L	A09K1	1-16 *	P									85
BUS D12 L		1									24-5/8	85

DD11P,C RUN NAME	VGWRAP 35(102)-1 A/P PIN NAME	03-JUN-77 ORDER PIN	BAY * ORDER	Q	DRAW OPT	RV RG Y	X	Z	REMARKS	10-JUL-78	9117 NC LENGTH FLAG	PAGE 21 EXCEPTIONS	RUN NUMBER
BUS D13 L	A01L2	1-01	* P					1			0-7/8		86
BUS D13 L	A02L2	1-02	* P					2			0-7/8		86
BUS D13 L	A03L2	1-03	* P					1			0-7/8		86
BUS D13 L	A04L2	1-04	* P					2			5-5/8		86
BUS D13 L	C03F2	1-05	* P					1			0-7/8		86
BUS D13 L	C04F2	1-06	* P					2			0-7/8		86
BUS D13 L	C05F2	1-07	* P					1			0-7/8		86
BUS D13 L	C06F2	1-08	* P					2			0-7/8		86
BUS D13 L	C07F2	1-09	* P					1			0-7/8		86
BUS D13 L	C08F2	1-10	* P					2			0-7/8		86
BUS D13 L	C09F2	1-11	* P					1			7-1/8		86
BUS D13 L	A05L2	1-12	* P					2			0-7/8		86
BUS D13 L	A06L2	1-13	* P					1			0-7/8		86
BUS D13 L	A07L2	1-14	* P					2			0-7/8		86
BUS D13 L	A08L2	1-15	* P					1			0-7/8		86
BUS D13 L	A09L2	1-16	* P										86
BUS D13 L		1									24-1/8		86
BUS D14 L	A01L1	1-01	* P					1			0-7/8		87
BUS D14 L	A02L1	1-02	* P					2			0-7/8		87
BUS D14 L	A03L1	1-03	* P					1			0-7/8		87
BUS D14 L	A04L1	1-04	* P					2			5-3/8		87
BUS D14 L	C03E2	1-05	* P					1			0-7/8		87
BUS D14 L	C04E2	1-06	* P					2			0-7/8		87
BUS D14 L	C05E2	1-07	* P					1			0-7/8		87
BUS D14 L	C06E2	1-08	* P					2			0-7/8		87
BUS D14 L	C07E2	1-09	* P					1			0-7/8		87
BUS D14 L	C08E2	1-10	* P					2			0-7/8		87
BUS D14 L	C09E2	1-11	* P					1			7-1/8		87
BUS D14 L	A05L1	1-12	* P					2			0-7/8		87
BUS D14 L	A06L1	1-13	* P					1			0-7/8		87
BUS D14 L	A07L1	1-14	* P					2			0-7/8		87
BUS D14 L	A08L1	1-15	* P					1			0-7/8		87
BUS D14 L	A09L1	1-16	* P										87
BUS D14 L		1									23-7/8		87
BUS D15 L	A01M2	1-01	* P					1			0-7/8		88
BUS D15 L	A02M2	1-02	* P					2			0-7/8		88
BUS D15 L	A03M2	1-03	* P					1			0-7/8		88
BUS D15 L	A04M2	1-04	* P					2			5-1/8		88
BUS D15 L	C03D2	1-05	* P					1			0-7/8		88
BUS D15 L	C04D2	1-06	* P					2			0-7/8		88
BUS D15 L	C05D2	1-07	* P					1			0-7/8		88
BUS D15 L	C06D2	1-08	* P					2			0-7/8		88
BUS D15 L	C07D2	1-09	* P					1			0-7/8		88
BUS D15 L	C08D2	1-10	* P					2			0-7/8		88
BUS D15 L	C09D2	1-11	* P					1			6-7/8		88
BUS D15 L	A05M2	1-12	* P					2			0-7/8		88
BUS D15 L	A06M2	1-13	* P					1			0-7/8		88
BUS D15 L	A07M2	1-14	* P					2			0-7/8		88
BUS D15 L	A08M2	1-15	* P					1			0-7/8		88
BUS D15 L	A09M2	1-16	* P										88
BUS D15 L		1									23-3/8		88

DD11P,C RUN NAME	VGWRAP 35(102)-1 A/P PIN NAME	03-JUN-77 ORDER PIN	BAY = ORDER	Q	DRAW OPT	RV	RG	Y	X	Z	REMARKS	10-JUL-78	9117 NC LENGTH FLAG	PAGE 22 EXCEPTIONS	RUN NUMBER
C BG IN	D03U2		1-01 *							1			3-7/8		89
C BG IN	F03B1		1-02 *												89
C BG IN			1												89
C BG OUT	D03V2		1-01 *							1			3-7/8		90
C BG OUT	F03A1		1-02 *												90
C BG OUT			1												90
C BR OUT	D03J2		1-01 *							1			6-5/8		91
C BR OUT	F03P1		1-02 *							2			1		91
C BR OUT	F03U2		1-03 *												91
C BR OUT			1										7-5/8		91
C IN	D03H1		1-01 *							1			3-3/8		92
C IN	E03M1		1-02 *												92
C IN			1												92
C INT A	D03N1		1-01 *							1			6-3/8		93
C INT A	F03U1		1-02 *												93
C INT A			1												93
C INT B	C03J1		1-01 *							1			8-5/8		94
C INT B	F03K2		1-02 *												94
C INT B			1												94
C INT ENB A	D03M1		1-01 *							1			6-5/8		95
C INT ENB A	F03V1		1-02 *												95
C INT ENB A			1												95
C INT ENB B	C03L1		1-01 *							1			8-1/8		96
C INT ENB B	F03H2		1-02 *												96
C INT ENB B			1												96
C OUT HIGH	D03K1		1-01 *							1			3-3/8		97
C OUT HIGH	E03M2		1-02 *												97
C OUT HIGH			1												97
C OUT LOW	D03D1		1-01 *							1			3-7/8		98
C OUT LOW	E03N1		1-02 *												98
C OUT LOW			1												98
C SEL 0	D03F1		1-01 *							1			4-1/8		99
C SEL 0	E03S2		1-02 *												99
C SEL 0			1												99
C SEL 4	D03E1		1-01 *							1			4-3/8		100
C SEL 4	E03R2		1-02 *												100
C SEL 4			1												100
C SEL 6	D03C1		1-01 *							1			4-3/8		101
C SEL 6	E03S1		1-02 *												101
C SEL 6			1												101
C SER 2	D03J1		1-01 *							1			4-1/8		102
C SER 2	E03T2		1-02 *												102
C SER 2			1												102

DD11P,C
RUN NAME

VGWRAP 35(102)-1 03-JUN-77
A/P PIN ORDER BAY * Q DRAW RV RG Y X Z
NAME PIN ORDER OPT

REMARKS

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NC LENGTH EXCEPTIONS
FLAG

RUN
NUMBER

C SSYN IN H	D03V1	1-01 *										0-7/8	103
C SSYN IN H	E03B1	1-02 *											103
C SSYN IN H		1										0-7/8	103
C0 L	B01U2	1-01 *										0-7/8	104
C0 L	B02U2	1-02 *										0-7/8	104
C0 L	B03U2	1-03 *										0-7/8	104
C0 L	B04U2	1-04 *										7-3/8	104
C0 L	E03J2	1-05 *	P									0-7/8	104
C0 L	E04J2	1-06 *	P									0-7/8	104
C0 L	E05J2	1-07 *	P									0-7/8	104
C0 L	E06J2	1-08 *	P									0-7/8	104
C0 L	E07J2	1-09 *	P									0-7/8	104
C0 L	E08J2	1-10 *	P									0-7/8	104
C0 L	E09J2	1-11 *										9-1/8	104
C0 L	B05U2	1-12 *										0-7/8	104
C0 L	B06U2	1-13 *										0-7/8	104
C0 L	B07U2	1-14 *										0-7/8	104
C0 L	B08U2	1-15 *										0-7/8	104
C0 L	B09U2	1-16 *											104
C0 L		1										27-7/8	104
C1 L	B01T2	1-01 *										0-7/8	105
C1 L	B02T2	1-02 *										0-7/8	105
C1 L	B03T2	1-03 *										0-7/8	105
C1 L	B04T2	1-04 *										7-3/8	105
C1 L	E03F2	1-05 *	P									0-7/8	105
C1 L	E04F2	1-06 *	P									0-7/8	105
C1 L	E05F2	1-07 *	P									0-7/8	105
C1 L	E06F2	1-08 *	P									0-7/8	105
C1 L	E07F2	1-09 *	P									0-7/8	105
C1 L	E08F2	1-10 *	P									0-7/8	105
C1 L	E09F2	1-11 *										0-7/8	105
C1 L	B05T2	1-12 *										0-7/8	105
C1 L	B06T2	1-13 *										0-7/8	105
C1 L	B07T2	1-14 *										0-7/8	105
C1 L	B08T2	1-15 *										0-7/8	105
C1 L	B09T2	1-16 *											105
C1 L		1										27-5/8	105
D BG IN	D04U2	1-01 *										3-7/8	106
D BG IN	F04B1	1-02 *											106
D BG IN		1										3-7/8	106
D BG OUT	D04V2	1-01 *										3-7/8	107
D BG OUT	F04A1	1-02 *											107
D BG OUT		1										3-7/8	107
D BR OUT	D04J2	1-01 *										6-5/8	108
D BR OUT	F04P1	1-02 *										1	108
D BR OUT	F04U2	1-03 *											108
D BR OUT		1										7-5/8	108

DD11P,C
RUN NAME

VGWRAP 35(102)-1 03-JUN-77
A/P PIN ORDER BAY - Q DRAW RV RG Y X Z
NAME PIN ORDER OPT

REMARKS

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9117 PAGE 24
NC LENGTH EXCEPTIONS
FLAG

RUN
NUMBER

D IN	D04H1	1-01 *										3-3/8	109
D IN	E04M1	1-02 *											109
D IN		1										3-3/8	109
D INT A	D04N1	1-01 *										6-3/8	110
D INT A	F04U1	1-02 *										6-3/8	110
D INT A		1											110
D INT B	C04J1	1-01 *										8-5/8	111
D INT B	F04K2	1-02 *											111
D INT B		1										8-5/8	111
D INT ENB A	D04M1	1-01 *										6-5/8	112
D INT ENB A	F04V1	1-02 *										6-5/8	112
D INT ENB A		1											112
D INT ENB B	C04L1	1-01 *										8-1/8	113
D INT ENB B	F04H2	1-02 *											113
D INT ENB B		1										8-1/8	113
D OUT HIGH	D04K1	1-01 *										3-3/8	114
D OUT HIGH	E04M2	1-02 *											114
D OUT HIGH		1										3-3/8	114
D OUT LOW	D04D1	1-01 *										3-7/8	115
D OUT LOW	E04N1	1-02 *											115
D OUT LOW		1										3-7/8	115
D SEL 0	D04F1	1-01 *										4-1/8	116
D SEL 0	E04S2	1-02 *											116
D SEL 0		1										4-1/8	116
D SEL 4	D04E1	1-01 *										4-3/8	117
D SEL 4	E04R2	1-02 *											117
D SEL 4		1										4-3/8	117
D SEL 6	D04C1	1-01 *										4-3/8	118
D SEL 6	E04S1	1-02 *											118
D SEL 6		1										4-3/8	118
D SER 2	D04J1	1-01 *										4-1/8	119
D SER 2	E04T2	1-02 *											119
D SER 2		1										4-1/8	119
D SSYN IN H	D04V1	1-01 *										0-7/8	120
D SSYN IN H	E04B1	1-02 *											120
D SSYN IN H		1										0-7/8	120

DD11P.C
RUN NAME

VGWRAP 35(102)-1 03-JUN-77
A/P PIN ORDER BAY * Q
NAME PIN ORDER OPT

DRAW RV RG Y X Z

REMARKS

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NC LENGTH EXCEPTIONS
FLAG

RUN
NUMBER

DC L	B01F2	1-01 *	P						2		0-7/8	121
DC L	B02F2	1-02 *	P						1		0-7/8	121
DC L	B03F2	1-03 *	P						2		0-7/8	121
DC L	B04F2	1-04 *							1		4-3/8	121
DC L	C03N1	1-05 *	P						2		0-7/8	121
DC L	C04N1	1-06 *	P						1		0-7/8	121
DC L	C05N1	1-07 *	P						2		0-7/8	121
DC L	C06N1	1-08 *	P						1		0-7/8	121
DC L	C07N1	1-09 *	P						2		0-7/8	121
DC L	C08N1	1-10 *	P						1		0-7/8	121
DC L	C09N1	1-11 *							2		5-3/8	121
DC L	B05F2	1-12 *	P						1		0-7/8	121
DC L	B06F2	1-13 *	P						2		0-7/8	121
DC L	B07F2	1-14 *	P						1		0-7/8	121
DC L	B08F2	1-15 *	P						2		0-7/8	121
DC L	B09F2	1-16 *	P									121
DC L		1									21-1/8	121
E BG IN	D05U2	1-01 *							1		3-7/8	122
E BG IN	F05B1	1-02 *										122
E BG IN		1									3-7/8	122
E BG OUT	D05V2	1-01 *							1		3-7/8	123
E BG OUT	F05A1	1-02 *										123
E BG OUT		1									3-7/8	123
E BR OUT	D05J2	1-01 *							1		6-5/8	124
E BR OUT	F05P1	1-02 *							2		1	124
E BR OUT	F05U2	1-03 *										124
E BR OUT		1									7-5/8	124
E IN	D05H1	1-01 *							1		3-3/8	125
E IN	E05M1	1-02 *										125
E IN		1									3-3/8	125
E INT A	D05N1	1-01 *							1		6-3/8	126
E INT A	F05U1	1-02 *										126
E INT A		1									6-3/8	126
E INT B	C05J1	1-01 *							1		8-5/8	127
E INT B	F05K2	1-02 *										127
E INT B		1									8-5/8	127
E INT ENB A	D05M1	1-01 *							1		6-5/8	128
E INT ENB A	F05V1	1-02 *										128
E INT ENB A		1									6-5/8	128
E INT ENB B	C05L1	1-01 *							1		8-1/8	129
E INT ENB B	F05H2	1-02 *										129
E INT ENB B		1									8-1/8	129
E OUT HIGH	D05K1	1-01 *							1		3-3/8	130
E OUT HIGH	E05M2	1-02 *										130
E OUT HIGH		1									3-3/8	130

DDIIP,C RUN NAME	VGWRAP 35(102)-1 03-JUN-77 A/P PIN ORDER: BAY = Q DRAW RV RG Y X Z NAME PIN ORDER OPT	REMARKS	10-JUL-78	9117 NC LENGTH EXCEPTIONS FLAG	PAGE 26	RUN NUMBER
E OUT LOW	D05D1	1-01 *		3-7/8		131
E OUT LOW	E05N1	1-02 *				131
E OUT LOW		1		3-7/8		131
E SEL 0	D05F1	1-01 *		4-1/8		132
E SEL 0	E05S2	1-02 *				132
E SEL 0		1		4-1/8		132
E SEL 4	D05E1	1-01 *		4-3/8		133
E SEL 4	E05R2	1-02 *				133
E SEL 4		1		4-3/8		133
E SEL 6	D05C1	1-01 *		4-3/8		134
E SEL 6	E05S1	1-02 *				134
E SEL 6		1		4-3/8		134
E SER 2	D05J1	1-01 *		4-1/8		135
E SER 2	E05T2	1-02 *				135
E SER 2		1		4-1/8		135
E SSYN IN H	D05V1	1-01 *		0-7/8		136
E SSYN IN H	E05B1	1-02 *				136
E SSYN IN H		1		0-7/8		136
F BG IN	D06U2	1-01 *		3-7/8		137
F BG IN	F06B1	1-02 *				137
F BG IN		1		3-7/8		137
F BG OUT	D06V2	1-01 *		3-7/8		138
F BG OUT	F06A1	1-02 *				138
F BG OUT		1		3-7/8		138
F BR OUT	D06J2	1-01 *		6-5/8		139
F BR OUT	F06P1	1-02 *		1		139
F BR OUT	F06U2	1-03 *				139
F BR OUT		1		7-5/8		139
F IN	D06H1	1-01 *		3-3/8		140
F IN	E06M1	1-02 *				140
F IN		1		3-3/8		140
F INT A	D06N1	1-01 *		6-3/8		141
F INT A	F06U1	1-02 *				141
F INT A		1		6-3/8		141
F INT B	C06J1	1-01 *		8-5/8		142
F INT B	F06K2	1-02 *				142
F INT B		1		8-5/8		142
F INT ENB A	D06M1	1-01 *		6-5/8		143
F INT ENB A	F06V1	1-02 *				143
F INT ENB A		1		6-5/8		143
F INT ENB B	C06L1	1-01 *		8-1/8		144
F INT ENB B	F06H2	1-02 *				144
F INT ENB B		1		8-1/8		144

DD11P,C RUN NAME	VGWRAP 35(102)-1 A/P PIN NAME	03-JUN-77 ORDER PIN ORDER	BAY - Q	DRAW RV RG Y X Z	REMARKS	10-JUL-78	9117 NC LENGTH EXCEPTIONS FLAG	PAGE 27	RUN NUMBER
F OUT HIGH	D06K1	1-01 *					3-3/8		145
F OUT HIGH	E06M2	1-02 *					3-3/8		145
F OUT HIGH		1							145
F OUT LOW	D06D1	1-01 *					3-7/8		146
F OUT LOW	E06N1	1-02 *					3-7/8		146
F OUT LOW		1							146
F SEL 0	D06F1	1-01 *					4-1/8		147
F SEL 0	E06S2	1-02 *					4-1/8		147
F SEL 0		1							147
F SEL 4	D06E1	1-01 *					4-3/8		148
F SEL 4	E06R2	1-02 *					4-3/8		148
F SEL 4		1							148
F SEL 6	D06C1	1-01 *					4-3/8		149
F SEL 6	E06S1	1-02 *					4-3/8		149
F SEL 6		1							149
F SER 2	D06J1	1-01 *					4-1/8		150
F SER 2	E06T2	1-02 *					4-1/8		150
F SER 2		1							150
F SSYN IN H	D06V1	1-01 *					0-7/8		151
F SSYN IN H	E06B1	1-02 *					0-7/8		151
F SSYN IN H		1							151
F03D2	F03D2	1-01 *					1-5/8		152
F03D2	F03R2	1-02 *					0-4/8		152
F03D2	F03N1	1-03 *					2-1/8		152
F03D2		1							152
F03E1	F03E1	1-01 *					2-3/8		153
F03E1	F03V2	1-02 *					2-3/8		153
F03E1		1							153
F03L2	F03L2	1-01 *					1		154
F03L2	F03R1	1-02 *					1-0/8		154
F03L2		1							154
F03M2	F03M2	1-01 *					1		155
F03M2	F03S1	1-02 *					1-0/8		155
F03M2		1							155
F03P2	F03P2	1-01 *					0-4/8		156
F03P2	F03S2	1-02 *					0-4/8		156
F03P2		1							156
F04D2	F04D2	1-01 *					1-5/8		157
F04D2	F04R2	1-02 *					0-4/8		157
F04D2	F04N1	1-03 *					2-1/8		157
F04D2		1							157

DD11P,C
RUN NAME

VGWRAP 35(102)-1 03-JUN-77
A/P PIN ORDER BAY = Q DRAW RV RG Y X Z
NAME PIN ORDER OPT

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NC LENGTH EXCEPTIONS
FLAG

RUN
NUMBER

F04E1	F04E1	1-01 *										2-3/8	158
F04E1	F04V2	1-02 *											158
F04E1		1										2-3/8	158
F04L2	F04L2	1-01 *										1	159
F04L2	F04R1	1-02 *											159
F04L2		1										1-0/8	159
F04M2	F04M2	1-01 *										1	160
F04M2	F04S1	1-02 *											160
F04M2		1										1-0/8	160
F04P2	F04P2	1-01 *										0-4/8	161
F04P2	F04S2	1-02 *											161
F04P2		1										0-4/8	161
F05D2	F05D2	1-01 *										1-5/8	162
F05D2	F05R2	1-02 *										0-4/8	162
F05D2	F05N1	1-03 *											162
F05D2		1										2-1/8	162
F05E1	F05E1	1-01 *										2-3/8	163
F05E1	F05V2	1-02 *											163
F05E1		1										2-3/8	163
F05L2	F05L2	1-01 *										1	164
F05L2	F05R1	1-02 *											164
F05L2		1										1-0/8	164
F05M2	F05M2	1-01 *										1	165
F05M2	F05S1	1-02 *											165
F05M2		1										1-0/8	165
F05P2	F05P2	1-01 *										0-4/8	166
F05P2	F05S2	1-02 *											166
F05P2		1										0-4/8	166
F06D2	F06D2	1-01 *										1-5/8	167
F06D2	F06R2	1-02 *										0-4/8	167
F06D2	F06N1	1-03 *											167
F06D2		1										2-1/8	167
F06E1	F06E1	1-01 *										2-3/8	168
F06E1	F06V2	1-02 *											168
F06E1		1										2-3/8	168
F06L2	F06L2	1-01 *										1	169
F06L2	F06R1	1-02 *											169
F06L2		1										1-0/8	169
F06M2	F06M2	1-01 *										1	170
F06M2	F06S1	1-02 *											170
F06M2		1										1-0/8	170

DD11P.C
RUN NAME

VGWRAP 35(102)-1 03-JUN-77
A/P PIN ORDER BAY = Q DRAW RV RG Y X Z
NAME PIN ORDER OPT

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NC LENGTH EXCEPTIONS
FLAG

RUN
NUMBER

DD11P.C RUN NAME	VGWRAP 35(102)-1 A/P PIN NAME	03-JUN-77 ORDER PIN	BAY = ORDER	Q	DRAW OPT	RV	RG	Y	X	Z	REMARKS	9117 NC LENGTH FLAG	PAGE 29 EXCEPTIONS	RUN NUMBER
F06P2	F06P2		1-01 *							1		0-4/8		171
F06P2	F06S2		1-02 *											171
F06P2			1									0-4/8		171
F07D2	F07D2		1-01 *							2		1-5/8		172
F07D2	F07R2		1-02 *							1		0-4/8		172
F07D2	F07N1		1-03 *											172
F07D2			1									2-1/8		172
F07E1	F07E1		1-01 *							1		2-3/8		173
F07E1	F07V2		1-02 *											173
F07E1			1									2-3/8		173
F07L2	F07L2		1-01 *							1		1		174
F07L2	F07R1		1-02 *											174
F07L2			1									1-0/8		174
F07M2	F07M2		1-01 *							1		1		175
F07M2	F07S1		1-02 *											175
F07M2			1									1-0/8		175
F07P2	F07P2		1-01 *							1		0-4/8		176
F07P2	F07S2		1-02 *											176
F07P2			1									0-4/8		176
F08D2	F08D2		1-01 *							2		1-5/8		177
F08D2	F08R2		1-02 *							1		0-4/8		177
F08D2	F08N1		1-03 *											177
F08D2			1									2-1/8		177
F08E1	F08E1		1-01 *							1		2-3/8		178
F08E1	F08V2		1-02 *											178
F08E1			1									2-3/8		178
F08L2	F08L2		1-01 *							1		1		179
F08L2	F08R1		1-02 *											179
F08L2			1									1-0/8		179
F08M2	F08M2		1-01 *							1		1		180
F08M2	F08S1		1-02 *											180
F08M2			1									1-0/8		180
F08P2	F08P2		1-01 *							1		0-4/8		181
F08P2	F08S2		1-02 *											181
F08P2			1									0-4/8		181
F09D2	F09D2		1-01 *							2		1-5/8		182
F09D2	F09R2		1-02 *							1		0-4/8		182
F09D2	F09N1		1-03 *											182
F09D2			1									2-1/8		182
F09E1	F09E1		1-01 *							1		2-3/8		183
F09E1	F09V2		1-02 *											183
F09E1			1									2-3/8		183

DD11P,C
RUN NAME

VGWRAP 35(102)-1 03-JUN-77
A/P PIN ORDER BAY = Q
NAME PIN ORDER

DRAW RV RG Y X Z
OPT

REMARKS

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NC LENGTH EXCEPTIONS
FLAG

RUN
NUMBER

DD11P,C RUN NAME	VGWRAP 35(102)-1 03-JUN-77 A/P PIN ORDER BAY = Q NAME PIN ORDER	DRAW RV RG Y X Z OPT	REMARKS	10-JUL-78	9117 PAGE 30 NC LENGTH EXCEPTIONS FLAG	RUN NUMBER
F09L2	F09L2	1-01 *			1	184
F09L2	F09R1	1-02 *				184
F09L2		1			1-0/8	184
F09M2	F09M2	1-01 *			1	185
F09M2	F09S1	1-02 *				185
F09M2		1			1-0/8	185
F09P2	F09P2	1-01 *				186
F09P2	F09S2	1-02 *			0-4/8	186
F09P2		1			0-4/8	186
GND (01)	A01C2	1-01 * P		1	0-7/8	187
GND (01)	A02C2	1-02 * P		2	0-7/8	187
GND (01)	A03C2	1-03 * P		1	0-7/8	187
GND (01)	A04C2	1-04 * P		2	0-7/8	187
GND (01)	A05C2	1-05 * P		1	0-7/8	187
GND (01)	A06C2	1-06 * P		2	0-7/8	187
GND (01)	A07C2	1-07 * P		1	0-7/8	187
GND (01)	A08C2	1-08 * P		2	0-7/8	187
GND (01)	A09C2	1-09 * P		1	2-1/8	187
GND (01)	A09T1	1-10 * P		2	0-7/8	187
GND (01)	A08T1	1-11 * P		1	0-7/8	187
GND (01)	A07T1	1-12 * P		2	0-7/8	187
GND (01)	A06T1	1-13 * P		1	0-7/8	187
GND (01)	A05T1	1-14 * P		2	0-7/8	187
GND (01)	A04T1	1-15 * P		1	0-7/8	187
GND (01)	A03T1	1-16 * P		2	0-7/8	187
GND (01)	A02T1	1-17 * P		1	0-7/8	187
GND (01)	A01T1	1-18 * P		2	1-5/8	187
GND (01)	B01C2	1-19 * P		1	0-7/8	187
GND (01)	B02C2	1-20 * P		2	0-7/8	187
GND (01)	B03C2	1-21 * P		1	0-7/8	187
GND (01)	B04C2	1-22 * P		2	0-7/8	187
GND (01)	B05C2	1-23 * P		1	0-7/8	187
GND (01)	B06C2	1-24 * P		2	0-7/8	187
GND (01)	B07C2	1-25 * P		1	0-7/8	187
GND (01)	B08C2	1-26 * P		2	0-7/8	187
GND (01)	B09C2	1-27 * P		1	0-7/8	187
GND (01)	B09T1	1-28 * P		2	2-1/8	187
GND (01)	B08T1	1-29 * P		1	0-7/8	187
GND (01)	B07T1	1-30 * P		2	0-7/8	187
GND (01)	B06T1	1-31 * P		1	0-7/8	187
GND (01)	B05T1	1-32 * P		2	0-7/8	187
GND (01)	B04T1	1-33 * P		1	0-7/8	187
GND (01)	B03T1	1-34 * P		2	0-7/8	187
GND (01)	B02T1	1-35 * P		1	0-7/8	187
GND (01)	B01T1	1-36 * P		2	0-7/8	187
GND (01)	C01C2	1-37 * P		1	1-3/8	187
GND (01)	C02C2	1-38 * P		2	0-7/8	187
GND (01)	C03C2	1-39 * P		1	0-7/8	187
GND (01)	C04C2	1-40 * P		2	0-7/8	187
GND (01)	C05C2	1-41 * P		1	0-7/8	187
GND (01)	C06C2	1-42 * P		2	0-7/8	187
GND (01)	C07C2	1-43 * P		1	0-7/8	187
GND (01)	C08C2	1-44 * P		2	0-7/8	187

DD11P.C
RUN NAME

VGWRAP 35(102)-1 03-JUN-77
A/P PIN ORDER BAY - Q
NAME PIN ORDER

DRAW RV RG Y X Z
OPT

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NC LENGTH EXCEPTIONS
FLAG

RUN
NUMBER

GND (01)	C09C2	1-45 *	P							1		2-1/8	187
GND (01)	C09T1	1-46 *	P							2		0-7/8	187
GND (01)	C08T1	1-47 *	P							1		0-7/8	187
GND (01)	C07T1	1-48 *	P							2		0-7/8	187
GND (01)	C06T1	1-49 *	P							1		0-7/8	187
GND (01)	C05T1	1-50 *	P							2		0-7/8	187
GND (01)	C04T1	1-51 *	P							1		0-7/8	187
GND (01)	C03T1	1-52 *	P							2		0-7/8	187
GND (01)	C02T1	1-53 *	P							1		0-7/8	187
GND (01)	C01T1	1-54 *	P									51-3/8	187
GND (01)		1											
GND (02)	D01C2	1-01 *	P							1		0-7/8	188
GND (02)	D02C2	1-02 *	P							2		0-7/8	188
GND (02)	D03C2	1-03 *	P							1		0-7/8	188
GND (02)	D04C2	1-04 *	P							2		0-7/8	188
GND (02)	D05C2	1-05 *	P							1		0-7/8	188
GND (02)	D06C2	1-06 *	P							2		0-7/8	188
GND (02)	D07C2	1-07 *	P							1		0-7/8	188
GND (02)	D08C2	1-08 *	P							2		0-7/8	188
GND (02)	D09C2	1-09 *	P							1		2-1/8	188
GND (02)	D09T1	1-10 *	P							2		0-7/8	188
GND (02)	D08T1	1-11 *	P							1		0-7/8	188
GND (02)	D07T1	1-12 *	P							2		0-7/8	188
GND (02)	D06T1	1-13 *	P							1		0-7/8	188
GND (02)	D05T1	1-14 *	P							2		0-7/8	188
GND (02)	D04T1	1-15 *	P							1		0-7/8	188
GND (02)	D03T1	1-16 *	P							2		0-7/8	188
GND (02)	D02T1	1-17 *	P							1		0-7/8	188
GND (02)	D01T1	1-18 *	P							2		1-3/8	188
GND (02)	E01C2	1-19 *	P							1		0-7/8	188
GND (02)	E02C2	1-20 *	P							2		0-7/8	188
GND (02)	E03C2	1-21 *	P							1		0-7/8	188
GND (02)	E04C2	1-22 *	P							2		0-7/8	188
GND (02)	E05C2	1-23 *	P							1		0-7/8	188
GND (02)	E06C2	1-24 *	P							2		0-7/8	188
GND (02)	E07C2	1-25 *	P							1		0-7/8	188
GND (02)	E08C2	1-26 *	P							2		0-7/8	188
GND (02)	E09C2	1-27 *	P							1		2-1/8	188
GND (02)	E09T1	1-28 *	P							2		0-7/8	188
GND (02)	E08T1	1-29 *	P							1		0-7/8	188
GND (02)	E07T1	1-30 *	P							2		0-7/8	188
GND (02)	E06T1	1-31 *	P							1		0-7/8	188
GND (02)	E05T1	1-32 *	P							2		0-7/8	188
GND (02)	E04T1	1-33 *	P							1		0-7/8	188
GND (02)	E03T1	1-34 *	P							2		0-7/8	188
GND (02)	E02T1	1-35 *	P							1		0-7/8	188
GND (02)	E01T1	1-36 *	P							2		1-5/8	188
GND (02)	F01C2	1-37 *	P							1		0-7/8	188
GND (02)	F02C2	1-38 *	P							2		0-7/8	188
GND (02)	F03C2	1-39 *	P							1		0-7/8	188
GND (02)	F04C2	1-40 *	P							2		0-7/8	188
GND (02)	F05C2	1-41 *	P							1		0-7/8	188
GND (02)	F06C2	1-42 *	P							2		0-7/8	188
GND (02)	F07C2	1-43 *	P							1		0-7/8	188
GND (02)	F08C2	1-44 *	P							2		0-7/8	188

DD11P,C
RUN NAME

VGWRAP 35(102)-1 03-JUN-77

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NC LENGTH EXCEPTIONS
FLAG

RUN
NUMBER

A/P	PIN NAME	ORDER PIN	BAY * ORDER	Q	DRAW OPT	RV	RG	Y	X	Z	REMARKS	NC FLAG	EXCEPTIONS	RUN NUMBER
	GND (02)		F09C2	1-45 *	P					1			2-1/8	188
	GND (02)		F09T1	1-46 *	P					2			0-7/8	188
	GND (02)		F00T1	1-47 *	P					1			0-7/8	188
	GND (02)		F07T1	1-48 *	P					2			0-7/8	188
	GND (02)		F06T1	1-49 *	P					1			0-7/8	188
	GND (02)		F05T1	1-50 *	P					2			0-7/8	188
	GND (02)		F04T1	1-51 *	P					1			0-7/8	188
	GND (02)		F03T1	1-52 *	P					2			0-7/8	188
	GND (02)		F02T1	1-53 *	P					1			0-7/8	188
	GND (02)		F01T1	1-54 *	P								0-7/8	188
	GND (02)		1										51-3/8	188
	GND (03)		B09V2	1-01 *	P					2			2-3/8	189
	GND (03)		B09E1	1-02 *	P					1			0-2/8	189
	GND (03)		B09D1	1-03 *	P					2			0-4/8	189
	GND (03)		B09B2	1-04 *	P					1			1-1/8	189
	GND (03)		A09V2	1-05 *	P					2			0-6/8	189
	GND (03)		A09S1	1-06 *	P					1			0-2/8	189
	GND (03)		A09R1	1-07 *	P					2			0-2/8	189
	GND (03)		A09P1	1-08 *	P					1			0-2/8	189
	GND (03)		A09N1	1-09 *	P					2			1-7/8	189
	GND (03)		A09B2	1-10 *	P					1			4-3/8	189
	GND (03)		A01B2	1-11 *	P					2			1-7/8	189
	GND (03)		A01N1	1-12 *	P					1			0-2/8	189
	GND (03)		A01P1	1-13 *	P					2			0-2/8	189
	GND (03)		A01R1	1-14 *	P					1			0-2/8	189
	GND (03)		A01S1	1-15 *	P					2			0-6/8	189
	GND (03)		A01V2	1-16 *	P					1			1-1/8	189
	GND (03)		B01B2	1-17 *	P					2			0-4/8	189
	GND (03)		B01D1	1-18 *	P					1			0-2/8	189
	GND (03)		B01E1	1-19 *	P					2			2-3/8	189
	GND (03)		B01V2	1-20 *	P					1			0-5/8	189
	GND (03)		E03A1	1-21 *	P					2			0-7/8	189
	GND (03)		E04A1	1-22 *	P					1			0-7/8	189
	GND (03)		E05A1	1-23 *	P					2			0-7/8	189
	GND (03)		E06A1	1-24 *	P					1			0-7/8	189
	GND (03)		E07A1	1-25 *	P					2			0-7/8	189
	GND (03)		E08A1	1-26 *	P					1			0-7/8	189
	GND (03)		E09A1	1-27 *	P					2			4-3/8	189
	GND (03)		F09J2	1-28 *	P					1			0-7/8	189
	GND (03)		F08J2	1-29 *	P					2			0-7/8	189
	GND (03)		F07J2	1-30 *	P					1			0-7/8	189
	GND (03)		F06J2	1-31 *	P					2			0-7/8	189
	GND (03)		F05J2	1-32 *	P					1			0-7/8	189
	GND (03)		F04J2	1-33 *	P					2			0-7/8	189
	GND (03)		F03J2	1-34 *	P								0-7/8	189
	GND (03)		1										41-1/8	189
	H 0G IN		D07U2	1-01 *						1			3-7/8	190
	H 3G IN		F07B1	1-02 *										190
	H 8G IN		1										3-7/8	190
	H 0G OUT		D07V2	1-01 *						1			3-7/8	191
	H 8G OUT		F07A1	1-02 *										191
	H 8G OUT		1										3-7/8	191

DD11P,C RUN NAME	VGWRAP 35(102)=1 A/P PIN NAME	03-JUN-77 ORDER PIN	BAY = ORDER	Q	DRAW OPT	RV	RG	Y	X	Z	REMARKS	10-JUL-78	9117 NC LENGTH FLAG	PAGE 33 EXCEPTIONS	RUN NUMBER
H BR OUT	D07J2		1-01 *							1			6-5/8		192
H BR OUT	F07P1		1-02 *							2			1		192
H BR OUT	F07U2		1-03 *												192
H BR OUT			1										7-5/8		192
H IN	D07H1		1-01 *							1			3-3/8		193
H IN	E07M1		1-02 *												193
H IN			1										3-3/8		193
H INT A	D07N1		1-01 *							1			6-3/8		194
H INT A	F07U1		1-02 *												194
H INT A			1										6-3/8		194
H INT B	C07J1		1-01 *							1			8-5/8		195
H INT B	F07K2		1-02 *												195
H INT B			1										8-5/8		195
H INT ENB A	D07M1		1-01 *							1			6-5/8		196
H INT ENB A	F07V1		1-02 *												196
H INT ENB A			1										6-5/8		196
H INT ENB B	C07L1		1-01 *							1			8-1/8		197
H INT ENB B	F07H2		1-02 *												197
H INT ENB B			1										8-1/8		197
H OUT HIGH	D07K1		1-01 *							1			3-3/8		198
H OUT HIGH	E07M2		1-02 *												198
H OUT HIGH			1										3-3/8		198
H OUT LOW	D07D1		1-01 *							1			3-7/8		199
H OUT LOW	E07N1		1-02 *												199
H OUT LOW			1										3-7/8		199
H SEL 0	D07F1		1-01 *							1			4-1/8		200
H SEL 0	E07S2		1-02 *												200
H SEL 0			1										4-1/8		200
H SEL 4	D07E1		1-01 *							1			4-3/8		201
H SEL 4	E07R2		1-02 *												201
H SEL 4			1										4-3/8		201
H SEL 6	D07C1		1-01 *							1			4-3/8		202
H SEL 6	E07S1		1-02 *												202
H SEL 6			1										4-3/8		202
H SER 2	D07J1		1-01 *							1			4-1/8		203
H SER 2	E07T2		1-02 *												203
H SER 2			1										4-1/8		203
H SSYN IN H	D07V1		1-01 *							1			0-7/8		204
H SSYN IN H	E07B1		1-02 *												204
H SSYN IN H			1										0-7/8		204

DD11P.C
RUN NAME

VGWRAP 35(102)=1 03-JUN-77
A/P PIN ORDER BAY - Q
NAME PIN ORDER

DRAW RV RG Y X Z
OPT

REMARKS

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NC LENGTH EXCEPTIONS
FLAG

RUN
NUMBER

DD11P.C RUN NAME	VGWRAP 35(102)=1 03-JUN-77 A/P PIN ORDER BAY - Q NAME PIN ORDER	DRAW RV RG Y X Z OPT	REMARKS	10-JUL-78	9:17 PAGE 34 NC LENGTH EXCEPTIONS FLAG	RUN NUMBER
HALT GRANT	C01R1	1-01 * P			0-7/8	205
HALT GRANT	C02R1	1-02 * P			0-7/8	205
HALT GRANT	C03R1	1-03 * P			0-7/8	205
HALT GRANT	C04R1	1-04 * P			0-7/8	205
HALT GRANT	C05R1	1-05 * P			0-7/8	205
HALT GRANT	C06R1	1-06 * P			0-7/8	205
HALT GRANT	C07R1	1-07 * P			0-7/8	205
HALT GRANT	C08R1	1-08 * P			0-7/8	205
HALT GRANT	C09R1	1-09 * P			0-7/8	205
HALT GRANT		1			7-0/8	205
HALT REQ	C01P1	1-01 * P			0-7/8	206
HALT REQ	C02P1	1-02 * P			0-7/8	206
HALT REQ	C03P1	1-03 * P			0-7/8	206
HALT REQ	C04P1	1-04 * P			0-7/8	206
HALT REQ	C05P1	1-05 * P			0-7/8	206
HALT REQ	C06P1	1-06 * P			0-7/8	206
HALT REQ	C07P1	1-07 * P			0-7/8	206
HALT REQ	C08P1	1-08 * P			0-7/8	206
HALT REQ	C09P1	1-09 * P			0-7/8	206
HALT REQ		1			7-0/8	206
INIT L	A01A1	1-01 * P			0-7/8	207
INIT L	A02A1	1-02 * P			0-7/8	207
INIT L	A03A1	1-03 * P	A04A1		0-7/8	207
INIT L	A04A1	1-04 * H		TWPR	9-7/8	207
INIT L	D03L1	1-05 * P			0-7/8	207
INIT L	D04L1	1-06 * P			0-7/8	207
INIT L	D05L1	1-07 * P			0-7/8	207
INIT L	D06L1	1-08 * P			0-7/8	207
INIT L	D07L1	1-09 * P			0-7/8	207
INIT L	D08L1	1-10 * P	D09L1		0-7/8	207
INIT L	D09L1	1-11 * H		TWPR	11-5/8	207
INIT L	A05A1	1-12 * P			0-7/8	207
INIT L	A06A1	1-13 * P			0-7/8	207
INIT L	A07A1	1-14 * P			0-7/8	207
INIT L	A08A1	1-15 * P			0-7/8	207
INIT L	A09A1	1-16 * P			0-7/8	207
INIT L		1			32-7/8	207
INT SSYN	B02E1	1-01 * P			0-7/8	208
INT SSYN	B03E1	1-02 * P			0-7/8	208
INT SSYN	B04E1	1-03 * P			0-7/8	208
INT SSYN	B05E1	1-04 * P			0-7/8	208
INT SSYN	B06E1	1-05 * P			0-7/8	208
INT SSYN	B07E1	1-06 * P			0-7/8	208
INT SSYN	B08E1	1-07 * P			0-7/8	208
INT SSYN		1			5-2/8	208

DDIIP.C
RUN NAME

VGWRAP 35(102)-1 03-JUN-77
A/P PIN ORDER BAY * Q
NAME PIN ORDER

DRAW RV RG Y X Z
OPT

REMARKS

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NC LENGTH EXCEPTIONS
FLAG

RUN
NUMBER

INTR L	A01B1	1-01 *	P							2	0-7/8	209
INTR L	A02B1	1-02 *	P							1	0-7/8	209
INTR L	A03B1	1-03 *	P							2	0-7/8	209
INTR L	A04B1	1-04 *								1	15-3/8	209
INTR L	F03M1	1-05 *	P							2	0-7/8	209
INTR L	F04M1	1-06 *								1	0-7/8	209
INTR L	F05M1	1-07 *	P							2	0-7/8	209
INTR L	F06M1	1-08 *	P							1	0-7/8	209
INTR L	F07M1	1-09 *	P							2	0-7/8	209
INTR L	F08M1	1-10 *	P							1	0-7/8	209
INTR L	F09M1	1-11 *								2	16-5/8	209
INTR L	A05B1	1-12 *	P							1	0-7/8	209
INTR L	A06B1	1-13 *	P							2	0-7/8	209
INTR L	A07B1	1-14 *	P							1	0-7/8	209
INTR L	A08B1	1-15 *	P							2	0-7/8	209
INTR L	A09B1	1-16 *	P									209
INTR L		1									43-3/8	209
J A IN	D08H1	1-01 *								1	3-3/8	210
J A IN	E08M1	1-02 *										210
J A IN		1									3-3/8	210
J BG IN	D08U2	1-01 *								1	3-7/8	211
J BG IN	F08B1	1-02 *										211
J BG IN		1									3-7/8	211
J BG OUT	D08V2	1-01 *								1	3-7/8	212
J BG OUT	F08A1	1-02 *										212
J BG OUT		1									3-7/8	212
J BR OUT	D08J2	1-01 *								1	6-5/8	213
J BR OUT	F08P1	1-02 *								2	1	213
J BR OUT	F08U2	1-03 *										213
J BR OUT		1									7-5/8	213
J INT A	D08N1	1-01 *								1	6-3/8	214
J INT A	F08U1	1-02 *										214
J INT A		1									6-3/8	214
J INT B	C08J1	1-01 *								1	8-5/8	215
J INT B	F08K2	1-02 *										215
J INT B		1									8-5/8	215
J INT ENB A	D08M1	1-01 *								1	6-5/8	216
J INT ENB A	F08V1	1-02 *										216
J INT ENB A		1									6-5/8	216
J INT ENB B	C08L1	1-01 *								1	8-1/8	217
J INT ENB B	F08H2	1-02 *										217
J INT ENB B		1									8-1/8	217
J OUT HIGH	D08K1	1-01 *								1	3-3/8	218
J OUT HIGH	E08M2	1-02 *										218
J OUT HIGH		1									3-3/8	218

DDIIP,C
RUN NAME

VGWRAP 35(102)-1 03-JUN-77
A/P PIN ORDER BAY * Q DRAW RY RG Y X Z
NAME PIN ORDER OPT

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NC LENGTH EXCEPTIONS
FLAG

RUN
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J OUT LOW	D00D1	1-01 *										3-7/8	219
J OUT LOW	E00N1	1-02 *											219
J OUT LOW		1										3-7/8	219
J SEL 0	D00F1	1-01 *										4-1/8	220
J SEL 0	E00S2	1-02 *											220
J SEL 0		1										4-1/8	220
J SEL 4	D00E1	1-01 *										4-3/8	221
J SEL 4	E00R2	1-02 *											221
J SEL 4		1										4-3/8	221
J SEL 6	D00C1	1-01 *										4-3/8	222
J SEL 6	E00S1	1-02 *											222
J SEL 6		1										4-3/8	222
J SER 2	D00J1	1-01 *										4-1/8	223
J SER 2	E00T2	1-02 *											223
J SER 2		1										4-1/8	223
J SSYN IN H	D00V1	1-01 *										0-7/8	224
J SSYN IN H	E00B1	1-02 *											224
J SSYN IN H		1										0-7/8	224
K A IN	D00H1	1-01 *										3-3/8	225
K A IN	E00M1	1-02 *											225
K A IN		1										3-3/8	225
K BG IN	D00U2	1-01 *										3-7/8	226
K BG IN	F00B1	1-02 *											226
K BG IN		1										3-7/8	226
K BG OUT	D00V2	1-01 *										3-7/8	227
K BG OUT	F00A1	1-02 *											227
K BG OUT		1										3-7/8	227
K BR OUT	D00J2	1-01 *										6-5/8	228
K BR OUT	F00P1	1-02 *										1	228
K BR OUT	F00U2	1-03 *											228
K BR OUT		1										7-5/8	228
K INT A	D00N1	1-01 *										6-3/8	229
K INT A	F00U1	1-02 *											229
K INT A		1										6-3/8	229
K INT B	C00J1	1-01 *										8-5/8	230
K INT B	F00K2	1-02 *											230
K INT B		1										8-5/8	230
K INT ENB A	D00M1	1-01 *										6-5/8	231
K INT ENB A	F00V1	1-02 *											231
K INT ENB A		1										6-5/8	231
K INT ENB B	C00L1	1-01 *										8-1/8	232
K INT ENB B	F00H2	1-02 *											232
K INT ENB B		1										8-1/8	232

DD11P,C
RUN NAME

VGWRAP 35(102)-1 03-JUN-77
A/P PIN ORDER BAY = Q DRAW RV RG Y X Z
NAME PIN ORDER OPT

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NC LENGTH EXCEPTIONS
FLAG

RUN
NUMBER

DD11P,C RUN NAME	VGWRAP 35(102)-1 03-JUN-77 A/P PIN ORDER BAY = Q DRAW RV RG Y X Z NAME PIN ORDER OPT	REMARKS	10-JUL-78	9117 PAGE 37 NC LENGTH EXCEPTIONS FLAG	RUN NUMBER
K OUT HIGH	D09K1 1-01 *			3-3/8	233
K OUT HIGH	E09M2 1-02 *				233
K OUT HIGH	1			3-3/8	233
K OUT LOW	D09D1 1-01 *			3-7/8	234
K OUT LOW	E09N1 1-02 *				234
K OUT LOW	1			3-7/8	234
K SEL 0	D09F1 1-01 *			4-1/8	235
K SEL 0	E09S2 1-02 *				235
K SEL 0	1			4-1/8	235
K SEL 4	D09E1 1-01 *			4-3/8	236
K SEL 4	E09R2 1-02 *				236
K SEL 4	1			4-3/8	236
K SEL 6	D09C1 1-01 *			4-3/8	237
K SEL 6	E09B1 1-02 *				237
K SEL 6	1			4-3/8	237
K SER 2	D09J1 1-01 *			4-1/8	238
K SER 2	E09T2 1-02 *				238
K SER 2	1			4-1/8	238
K SSYN IN H	D09V1 1-01 *			0-7/8	239
K SSYN IN H	E09B1 1-02 *				239
K SSYN IN H	1			0-7/8	239
K1-1 BERG 00(1) H	D01N1 1-01 *			0-5/8	240
K1-1 BERG 00(1) H	D02M1 1-02 *				240
K1-1 BERG 00(1) H	1			0-5/8	240
K1-1 BXREG 00(1) H	C02U1 1-01 *			7-7/8	241
K1-1 BXREG 00(1) H	F01K1 1-02 *				241
K1-1 BXREG 00(1) H	1			7-7/8	241
K1-1 BXREG 01(1) H	D02F1 1-01 *			5-5/8	242
K1-1 BXREG 01(1) H	F01A1 1-02 *				242
K1-1 BXREG 01(1) H	1			5-5/8	242
K1-1 CBIT(1) H	D01U2 1-01 *			0-5/8	243
K1-1 CBIT(1) H	D02V1 1-02 *				243
K1-1 CBIT(1) H	1			0-5/8	243
K1-1 NBIT(1) H	D01L1 1-01 *			3-7/8	244
K1-1 NBIT(1) H	E02P2 1-02 *				244
K1-1 NBIT(1) H	1			3-7/8	244
K1-1 SSMUX 00 H	E02B2 1-01 *			4-3/8	245
K1-1 SSMUX 00 H	F01F1 1-02 *				245
K1-1 SSMUX 00 H	1			4-3/8	245
K1-1 SSMUX 01 H	D01H1 1-01 *			3-1/8	246
K1-1 SSMUX 01 H	E02E1 1-02 *				246
K1-1 SSMUX 01 H	1			3-1/8	246

DD11P,C
RUN NAMEVGWRAP 35(102)=1 03-JUN-77
A/P PIN ORDER BAY = Q DRAW RV RG Y X Z
NAME PIN OKDER OPT

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NC LENGTH EXCEPTIONS
FLAGRUN
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K1=1 SSMUX 02 H	E0101	1-01 *									1-3/8	247
K1=1 SSMUX 02 H	E0202	1-02 *										247
K1=1 SSMUX 02 H		1									1-3/8	247
K1=1 SSMUX 03 H	D01E1	1-01 *									3-3/8	248
K1=1 SSMUX 03 H	E02D1	1-02 *										248
K1=1 SSMUX 03 H		1									3-3/8	248
K1=1 VBIT(1) H	E0101	1-01 *									2-5/8	249
K1=1 VBIT(1) H	E02U2	1-02 *										249
K1=1 VBIT(1) H		1									2-5/8	249
K1=1 ZBIT(1) H	E02V1	1-01 *									1-7/8	250
K1=1 ZBIT(1) H	F01F2	1-02 *										250
K1=1 ZBIT(1) H		1									1-7/8	250
K1=10 8-15=0 L	C01J2	1-01 *									9-3/8	251
K1=10 8-15=0 L	F02N2	1-02 *										251
K1=10 8-15=0 L		1									9-3/8	251
K1=10 ASSERT SBYN H	E01K2	1-01 *									3-1/8	252
K1=10 ASSERT SBYN H	F02F1	1-02 *										252
K1=10 ASSERT SBYN H		1									3-1/8	252
K1=10 CCN H	F01T2	1-01 *									1-7/8	253
K1=10 CCN H	F02J2	1-02 *										253
K1=10 CCN H		1									1-7/8	253
K1=10 CCZ H	E01L1	1-01 *									2-7/8	254
K1=10 CCZ H	F02B2	1-02 *										254
K1=10 CCZ H		1									2-7/8	254
K1=2 PSW 05(1) H	C01P2	1-01 *									6-5/8	255
K1=2 PSW 05(1) H	E02T2	1-02 *										255
K1=2 PSW 05(1) H		1									6-5/8	255
K1=2 PSW 06(1) H	C01M2	1-01 *									6-5/8	256
K1=2 PSW 06(1) H	E02U1	1-02 *										256
K1=2 PSW 06(1) H		1									6-5/8	256
K1=2 PSW 07(1) H	E02K2	1-01 *									3-3/8	257
K1=2 PSW 07(1) H	F01H2	1-02 *										257
K1=2 PSW 07(1) H		1									3-3/8	257
K1=2 SSMUX 04 H	C02D1	1-01 *									3-7/8	258
K1=2 SSMUX 04 H	D01H2	1-02 *										258
K1=2 SSMUX 04 H		1									3-7/8	258
K1=2 SSMUX 05 H	E01E1	1-01 *									1-3/8	259
K1=2 SSMUX 05 H	E02H2	1-02 *										259
K1=2 SSMUX 05 H		1									1-3/8	259
K1=2 SSMUX 06 H	C02C1	1-01 *									6-7/8	260
K1=2 SSMUX 06 H	E01K1	1-02 *										260
K1=2 SSMUX 06 H		1									6-7/8	260

DD11P,C RUN NAME	VGWRAP 35(102)=1 03-JUN-77 A/P PIN ORDER BAY = Q DRAW RV RG Y X Z	10-Jul-78	9117 NC LENGTH EXCEPTIONS FLAG	PAGE 39	RUN NUMBER
	NAME PIN ORDER	REMARKS			
K1=2 SSMUX 07 H	C02E2 1=01 *		3-7/8		261
K1=2 SSMUX 07 H	D01J2 1=02 *				261
K1=2 SSMUX 07 H	1		3-7/8		261
K1=2 TBIT(1) H	D01F1 1=01 *		0-6/8		262
K1=2 TBIT(1) H	D02K1 1=02 *				262
K1=2 TBIT(1) H	1		0-6/8		262
K1=3 SSMUX 08 H	E01N2 1=01 *		0-4/8		263
K1=3 SSMUX 08 H	E02N1 1=02 *				263
K1=3 SSMUX 08 H	1		0-4/8		263
K1=3 SSMUX 09 H	C02J2 1=01 *		6-5/8		264
K1=3 SSMUX 09 H	E01M2 1=02 *				264
K1=3 SSMUX 09 H	1		6-5/8		264
K1=3 SSMUX 10 H	C02H2 1=01 *		5-1/8		265
K1=3 SSMUX 10 H	D01V1 1=02 *				265
K1=3 SSMUX 10 H	1		5-1/8		265
K1=3 SSMUX 11 H	C02F2 1=01 *		5-7/8		266
K1=3 SSMUX 11 H	E01A1 1=02 *				266
K1=3 SSMUX 11 H	1		5-7/8		266
K1=4 ALU COUT H	E01V1 1=01 *		2-7/8		267
K1=4 ALU COUT H	F02L2 1=02 *				267
K1=4 ALU COUT H	1		2-7/8		267
K1=4 PSW 15(1) L	D01J1 1=01 *		3-1/8		268
K1=4 PSW 15(1) L	E02E2 1=02 *				268
K1=4 PSW 15(1) L	1		3-1/8		268
K1=4 SP15(1) H	C02N1 1=01 * H		8-1/8		269
K1=4 SP15(1) H	F01E1 1=02 * X	TWP			269
K1=4 SP15(1) H	1	TWP	8-1/8		269
K1=4 SSMUX 12 H	C02J1 1=01 *		5-1/8		270
K1=4 SSMUX 12 H	E01B2 1=02 *				270
K1=4 SSMUX 12 H	1		5-1/8		270
K1=4 SSMUX 13 H	C02D2 1=01 *		5-3/8		271
K1=4 SSMUX 13 H	D01V2 1=02 *				271
K1=4 SSMUX 13 H	1		5-3/8		271
K1=4 SSMUX 14 H	C02H1 1=01 *		6-5/8		272
K1=4 SSMUX 14 H	E01P2 1=02 *				272
K1=4 SSMUX 14 H	1		6-5/8		272
K1=4 SSMUX 15 H	C01D1 1=01 *		1-3/8		273
K1=4 SSMUX 15 H	C02B2 1=02 *				273
K1=4 SSMUX 15 H	1		1-3/8		273
K1=5 ALLOW MSYN H	E01V2 1=01 *		1-1/8		274
K1=5 ALLOW MSYN H	F02A1 1=02 *				274
K1=5 ALLOW MSYN H	1		1-1/8		274

DD11P,C
RUN NAME

VGWRAP 35(102)-1 03-JUN-77
A/P PIN ORDER BAY - G DRAW RV RG Y X Z
NAME PIN ORDER OPT

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NC LENGTH EXCEPTIONS
FLAG

RUN
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DD11P,C RUN NAME	VGWRAP 35(102)-1 03-JUN-77 A/P PIN ORDER BAY - G DRAW RV RG Y X Z NAME PIN ORDER OPT	REMARKS	10-Jul-78	9117 PAGE 40 NC LENGTH EXCEPTIONS FLAG	RUN NUMBER
K1-5 MAN CLK ENAB L	F01M1 1-01 *			1-2/8	275
K1-5 MAN CLK ENAB L	F02E1 1-02 *				275
K1-5 MAN CLK ENAB L	1			1-2/8	275
K1-5 MAN CLK L	E02S1 1-01 *			3-3/8	276
K1-5 MAN CLK L	F01P1 1-02 *				276
K1-5 MAN CLK L	1			3-3/8	276
K1-5 PROC CLK H	E02J2 1-01 * H			4-3/8	277
K1-5 PROC CLK H	F01P2 1-02 * X	TWP			277
K1-5 PROC CLK H	1	TWP		4-3/8	277
K1-5 PROC CLK L	E01R1 1-01 *			0-6/8	278
K1-5 PROC CLK L	E02M1 1-02 *				278
K1-5 PROC CLK L	1			0-6/8	278
K1-5 TAP 30 H	D01E2 1-01 * H			4-1/8	279
K1-5 TAP 30 H	E02M2 1-02 * X	TWP			279
K1-5 TAP 30 H	1	TWP		4-1/8	279
K1-6 PBA 00 H	C01L2 1-01 *			4-7/8	280
K1-6 PBA 00 H	E02C1 1-02 *				280
K1-6 PBA 00 H	1			4-7/8	280
K1-6 PBA 01 H	C01H1 1-01 *			5-3/8	281
K1-6 PBA 01 H	D02V2 1-02 *				281
K1-6 PBA 01 H	1			5-3/8	281
K1-6 PBA 02 H	D02U2 1-01 *			1-7/8	282
K1-6 PBA 02 H	E01E2 1-02 *				282
K1-6 PBA 02 H	1			1-7/8	282
K1-6 PBA 03 H	D01M1 1-01 *			2-3/8	283
K1-6 PBA 03 H	E02B1 1-02 *				283
K1-6 PBA 03 H	1			2-3/8	283
K1-6 VBA 00(1) H	D02H1 1-01 *			4-1/8	284
K1-6 VBA 00(1) H	E01T2 1-02 *				284
K1-6 VBA 00(1) H	1			4-1/8	284
K1-8 KT FAULT L	D01D2 1-01 *			7-5/8	285
K1-8 KT FAULT L	F02T2 1-02 *				285
K1-8 KT FAULT L	1			7-5/8	285
K2-1 CLK MSYN H	C01J1 1-01 *			10-3/8	286
K2-1 CLK MSYN H	F02V2 1-02 *				286
K2-1 CLK MSYN H	1			10-3/8	286
K2-1 DISABLE WBIT L	D01F2 1-01 *			6-7/8	287
K2-1 DISABLE WBIT L	F02S1 1-02 *				287
K2-1 DISABLE WBIT L	1			6-7/8	287
K2-1 ENAB ADDR5 L	D02E2 1-01 *			5-5/8	288
K2-1 ENAB ADDR5 L	F01B2 1-02 *				288
K2-1 ENAB ADDR5 L	1			5-5/8	288

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K2-3 C4 H	C01U1	1-01 *										1-4/8	303
K2-3 C4 H	C02N2	1-02 *											303
K2-3 C4 H		1										1-4/8	303
K2-3 INT VECTOR L	D01K1	1-01 *										7-1/8	304
K2-3 INT VECTOR L	F02U1	1-02 *											304
K2-3 INT VECTOR L		1										7-1/8	304
K2-3 INTR H	C01V2	1-01 *										7-1/8	305
K2-3 INTR H	F02H1	1-02 *											305
K2-3 INTR H		1										7-1/8	305
K2-4 SP WRITE L	E02F1	1-01 *										4-7/8	306
K2-4 SP WRITE L	F01V2	1-02 *											306
K2-4 SP WRITE L		1										4-7/8	306
K2-4 SPA 00 H	C01D2	1-01 * H										3-7/8	307
K2-4 SPA 00 H	D02F2	1-02 * X											307
K2-4 SPA 00 H		1										3-7/8	307
K2-4 SPA 01 H	C01N1	1-01 * H										2-5/8	308
K2-4 SPA 01 H	D02B2	1-02 * X											308
K2-4 SPA 01 H		1										2-5/8	308
K2-4 SPA 02 H	C01S1	1-01 * H										3-1/8	309
K2-4 SPA 02 H	D02L1	1-02 * X											309
K2-4 SPA 02 H		1										3-1/8	309
K2-4 SPA 03 H	C01U2	1-01 * H										2	310
K2-4 SPA 03 H	D02D2	1-02 * X											310
K2-4 SPA 03 H		1										2-0/8	310
K2-5 BYTE L	E01H2	1-01 *										3-7/8	311
K2-5 BYTE L	F02L1	1-02 *											311
K2-5 BYTE L		1										3-7/8	311
K2-5 CC CODE 00 H	F01S1	1-01 *										1-4/8	312
K2-5 CC CODE 00 H	F02J1	1-02 *											312
K2-5 CC CODE 00 H		1										1-4/8	312
K2-5 CC CODE 01 H	E01U2	1-01 *										2-3/8	313
K2-5 CC CODE 01 H	F02H2	1-02 *											313
K2-5 CC CODE 01 H		1										2-3/8	313
K2-5 CC CODE 02 H	E01C1	1-01 *										4-7/8	314
K2-5 CC CODE 02 H	F02M2	1-02 *											314
K2-5 CC CODE 02 H		1										4-7/8	314
K2-5 LOAD IR H	E01D2	1-01 *										4-5/8	315
K2-5 LOAD IR H	F02F2	1-02 *											315
K2-5 LOAD IR H		1										4-5/8	315
K2-5 ROT CBIT(1) H	F01R1	1-01 *										1-1/8	316
K2-5 ROT CBIT(1) H	F02K1	1-02 *											316
K2-5 ROT CBIT(1) H		1										1-1/8	316

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K2-5 SERIAL SHIFT H	E01F2 1-01 *		4-1/8		317
K2-5 SERIAL SHIFT H	F02N1 1-02 *				317
K2-5 SERIAL SHIFT H	1		4-1/8		317
K2-6 DISAB LOAD PSW H	D01C1 1-01 *		7-7/8		318
K2-6 DISAB LOAD PSW H	F02S2 1-02 *				318
K2-6 DISAB LOAD PSW H	1		7-7/8		318
K2-7 LOAD CC L	F01N1 1-01 *		1-4/8		319
K2-7 LOAD CC L	F02F2 1-02 *				319
K2-7 LOAD CC L	1		1-4/8		319
K2-7 LOAD PSW L	E02N2 1-01 *		3-1/8		320
K2-7 LOAD PSW L	F01J2 1-02 *				320
K2-7 LOAD PSW L	1		3-1/8		320
K2-8 ALU CIN L	C02R2 1-01 *		7-7/8		321
K2-8 ALU CIN L	F01E2 1-02 *				321
K2-8 ALU CIN L	1		7-7/8		321
K2-8 ALU MODE H	C02K2 1-01 *		8-7/8		322
K2-8 ALU MODE H	F01J1 1-02 *				322
K2-8 ALU MODE H	1		8-7/8		322
K2-8 ALU S0 H	C02V2 1-01 *		7-1/8		323
K2-8 ALU S0 H	F01B1 1-02 *				323
K2-8 ALU S0 H	1		7-1/8		323
K2-8 ALU S1 H	D02D1 1-01 *		3-7/8		324
K2-8 ALU S1 H	E01H1 1-02 *				324
K2-8 ALU S1 H	1		3-7/8		324
K2-8 ALU S2 H	E01F1 1-01 *		0-6/8		325
K2-8 ALU S2 H	E02H1 1-02 *				325
K2-8 ALU S2 H	1		0-6/8		325
K2-8 ALU S3 H	E01R2 1-01 *		1-7/8		326
K2-8 ALU S3 H	E02F2 1-02 *				326
K2-8 ALU S3 H	1		1-7/8		326
K2-8 AUX CONTROL(1) L	D01D1 1-01 *		4-5/8		327
K2-8 AUX CONTROL(1) L	E02R1 1-02 *				327
K2-8 AUX CONTROL(1) L	1		4-5/8		327
K2-8 BLEG 00 H	C02V1 1-01 *		7-1/8		328
K2-8 BLEG 00 H	F01C1 1-02 *				328
K2-8 BLEG 00 H	1		7-1/8		328
K2-8 BLEG 01 H	D02N1 1-01 *		5-7/8		329
K2-8 BLEG 01 H	F01M2 1-02 *				329
K2-8 BLEG 01 H	1		5-7/8		329
K2-8 BMODE 00 L	D02E1 1-01 *		6-3/8		330
K2-8 BMODE 00 L	F01L2 1-02 *				330
K2-8 BMODE 00 L	1		6-3/8		330

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K2=8 BMODE 01 L	C02U2	1-01 *										8-7/8	331
K2=8 BMODE 01 L	F01U2	1-02 *											331
K2=8 BMODE 01 L		1										8-7/8	331
K2=8 BXMODE 00 L	E01S1	1-01 *										1-3/8	332
K2=8 BXMODE 00 L	E02R2	1-02 *											332
K2=8 BXMODE 00 L		1										1-3/8	332
K2=8 BXMODE 01 L	E02S2	1-01 *										3-1/8	333
K2=8 BXMODE 01 L	F01L1	1-02 *											333
K2=8 BXMODE 01 L		1										3-1/8	333
K2=8 DIS UPR BTWRT H	E01P1	1-01 *										3-7/8	334
K2=8 DIS UPR BTWRT H	F02R1	1-02 *											334
K2=8 DIS UPR BTWRT H		1										3-7/8	334
K2=8 DISABLE MSYN+1 L	C02S2	1-01 *										5-7/8	335
K2=8 DISABLE MSYN+1 L	E01M1	1-02 *											335
K2=8 DISABLE MSYN+1 L		1										5-7/8	335
K2=8 ENAB MAINT(1) H	F01S2	1-01 *										1	336
K2=8 ENAB MAINT(1) H	F02U2	1-02 *											336
K2=8 ENAB MAINT(1) H		1										1-0/8	336
K2=8 ENAB OVX L	E01N1	1-01 *										1-1/8	337
K2=8 ENAB OVX L	E02J1	1-02 *											337
K2=8 ENAB OVX L		1										1-1/8	337
K2=8 LOAD BA(1) H	F01D1	1-01 *										0-7/8	338
K2=8 LOAD BA(1) H	F02D1	1-02 *											338
K2=8 LOAD BA(1) H		1										0-7/8	338
K2=8 LONG CYCLE(1) L	E02V2	1-01 *										3-7/8	339
K2=8 LONG CYCLE(1) L	F01V1	1-02 *											339
K2=8 LONG CYCLE(1) L		1										3-7/8	339
K2=8 MODE 01 H	E02P1	1-01 *										3-1/8	340
K2=8 MODE 01 H	F01N2	1-02 *											340
K2=8 MODE 01 H		1										3-1/8	340
K2=8 SEX H	C02L2	1-01 *										6-1/8	341
K2=8 SEX H	E01J1	1-02 *											341
K2=8 SEX H		1										6-1/8	341
K2=8 SHIFT MUX 00 L	F01K2	1-01 *										0-4/8	342
K2=8 SHIFT MUX 00 L	F02M1	1-02 *											342
K2=8 SHIFT MUX 00 L		1										0-4/8	342
K2=8 SHIFT MUX 01 L	F01U1	1-01 *										1-1/8	343
K2=8 SHIFT MUX 01 L	F02P1	1-02 *											343
K2=8 SHIFT MUX 01 L		1										1-1/8	343
K2=8 SWAP H	C02P2	1-01 *										6-3/8	344
K2=8 SWAP H	E01S2	1-02 *											344
K2=8 SWAP H		1										6-3/8	344

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NAME PIN ORDER OPT

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K2-9 AMUX S0(1) L	F01D2	1-01 *									2-3/8	345
K2-9 AMUX S0(1) L	F02V1	1-02 *										345
K2-9 AMUX S0(1) L		1									2-3/8	345
K2-9 AMUX S1(1) L	F01H1	1-01 *									1-6/8	346
K2-9 AMUX S1(1) L	F02R2	1-02 *										346
K2-9 AMUX S1(1) L		1									1-6/8	346
K2-9 FORC KERNEL(1) H	C01L1	1-01 *									5-7/8	347
K2-9 FORC KERNEL(1) H	E02K1	1-02 *										347
K2-9 FORC KERNEL(1) H		1									5-7/8	347
K2-9 PREV MODE(1) L	C01S2	1-01 *									2-7/8	348
K2-9 PREV MODE(1) L	D02J2	1-02 *										348
K2-9 PREV MODE(1) L		1									2-7/8	348
LTC	C03D1	1-01 * P									0-7/8	349
LTC	C04D1	1-02 * P									0-7/8	349
LTC	C05D1	1-03 * P									0-7/8	349
LTC	C06D1	1-04 * P									0-7/8	349
LTC	C07D1	1-05 * P									0-7/8	349
LTC	C08D1	1-06 * P									0-7/8	349
LTC	C09D1	1-07 * P										349
LTC		1									5-2/8	349
MSYN L (1)	B01V1	1-01 *									0-7/8	350
MSYN L (1)	B02V1	1-02 *									0-7/8	350
MSYN L (1)	B03V1	1-03 *									0-7/8	350
MSYN L (1)	B04V1	1-04 * H							TWP		7-1/8	350
MSYN L (1)	E03E1	1-05 * P									0-7/8	350
MSYN L (1)	E04E1	1-06 *									0-7/8	350
MSYN L (1)	E05E1	1-07 * P									0-7/8	350
MSYN L (1)	E06E1	1-08 * P									0-7/8	350
MSYN L (1)	E07E1	1-09 * P									0-7/8	350
MSYN L (1)	E08E1	1-10 * P										350
MSYN L (1)		1									14-1/8	350
MSYN L (2)	E09E1	1-01 * H							TWP		8-3/8	351
MSYN L (2)	B05V1	1-02 *									0-7/8	351
MSYN L (2)	B06V1	1-03 *									0-7/8	351
MSYN L (2)	B07V1	1-04 *									0-7/8	351
MSYN L (2)	B08V1	1-05 *									0-7/8	351
MSYN L (2)	B09V1	1-06 *										351
MSYN L (2)		1									11-7/8	351
MSYN L JMP	E08E1	1-01 * P									0-7/8	352
MSYN L JMP	E09E1	1-02 *										352
MSYN L JMP		1									0-7/8	352

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NAME PIN ORDER

DRAW RV RG Y X Z
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NPG L		A01U1		1-01 *						1			3-5/8	353
NPG L		C01A1		1-02 *						2			0-2/8	353
NPG L		C01B1		1-03 *	P					2			0-5/8	353
NPG L		C02A1		1-04 *						1			0-2/8	353
NPG L		C02B1		1-05 *	P					2			0-5/8	353
NPG L		C03A1		1-06 *						1			0-2/8	353
NPG L		C03B1		1-07 *	P					2			0-5/8	353
NPG L		C04A1		1-08 *						1			0-2/8	353
NPG L		C04B1		1-09 *	P					2			0-5/8	353
NPG L		C05A1		1-10 *						1			0-2/8	353
NPG L		C05B1		1-11 *	P					2			0-5/8	353
NPG L		C06A1		1-12 *						1			0-2/8	353
NPG L		C06B1		1-13 *	P					2			0-5/8	353
NPG L		C07A1		1-14 *						1			0-2/8	353
NPG L		C07B1		1-15 *	P					2			0-5/8	353
NPG L		C08A1		1-16 *						1			0-2/8	353
NPG L		C08B1		1-17 *	P					2			0-5/8	353
NPG L		C09A1		1-18 *						1			0-2/8	353
NPG L		C09B1		1-19 *						2			3-7/8	353
NPG L		A09U1		1-20 *										353
NPG L				1									14-6/8	353
NPR L		A01S2		1-01 *						2			0-7/8	354
NPR L		A02S2		1-02 *						1			0-7/8	354
NPR L		A03S2	A04S2	1-03 *						2			0-7/8	354
NPR L		A04S2		1-04 *	H					1	TWPR		13-3/8	354
NPR L		F03J1		1-05 *	P					2			0-7/8	354
NPR L		F04J1		1-06 *	P					1			0-7/8	354
NPR L		F05J1		1-07 *	P					2			0-7/8	354
NPR L		F06J1		1-08 *	P					1			0-7/8	354
NPR L		F07J1		1-09 *	P					2			0-7/8	354
NPR L		F08J1	F09J1	1-10 *	P					1			0-7/8	354
NPR L		F09J1		1-11 *	H					2	TWPR		14-5/8	354
NPR L		A05S2		1-12 *						1			0-7/8	354
NPR L		A06S2		1-13 *						2			0-7/8	354
NPR L		A07S2		1-14 *						1			0-7/8	354
NPR L		A08S2		1-15 *						2			0-7/8	354
NPR L		A09S2		1-16 *										354
NPR L				1									39-3/8	354

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PA L	A01M1	1-01 *	P								0-7/8	355
PA L	A02M1	1-02 *	P								0-7/8	355
PA L	A03M1	1-03 *	P								0-7/8	355
PA L	A04M1	1-04 *									5-1/8	355
PA L	C03C1	1-05 *									0-7/8	355
PA L	C04C1	1-06 *									0-7/8	355
PA L	C05C1	1-07 *									0-7/8	355
PA L	C06C1	1-08 *									0-7/8	355
PA L	C07C1	1-09 *									0-7/8	355
PA L	C08C1	1-10 *									0-7/8	355
PA L	C09C1	1-11 *									6-5/8	355
PA L	A05M1	1-12 *	P								0-7/8	355
PA L	A06M1	1-13 *	P								0-7/8	355
PA L	A07M1	1-14 *	P								0-7/8	355
PA L	A08M1	1-15 *	P								0-7/8	355
PA L	A09M1	1-16 *	P									355
PA L		1									23-1/8	355
PAR DET	B02E2	1-01 *									0-7/8	356
PAR DET	B03E2	1-02 *									0-7/8	356
PAR DET	B04E2	1-03 *									0-7/8	356
PAR DET	B05E2	1-04 *									0-7/8	356
PAR DET	B06E2	1-05 *									0-7/8	356
PAR DET	B07E2	1-06 *									0-7/8	356
PAR DET	B08E2	1-07 *										356
PAR DET		1									5-2/8	356
PAR P0	A02P1	1-01 *	P								0-7/8	357
PAR P0	A03P1	1-02 *	P								0-7/8	357
PAR P0	A04P1	1-03 *	P								0-7/8	357
PAR P0	A05P1	1-04 *	P								0-7/8	357
PAR P0	A06P1	1-05 *	P								0-7/8	357
PAR P0	A07P1	1-06 *	P								0-7/8	357
PAR P0	A08P1	1-07 *	P									357
PAR P0		1									5-2/8	357
PAR P1	A02N1	1-01 *	P								0-7/8	358
PAR P1	A03N1	1-02 *	P								0-7/8	358
PAR P1	A04N1	1-03 *	P								0-7/8	358
PAR P1	A05N1	1-04 *	P								0-7/8	358
PAR P1	A06N1	1-05 *	P								0-7/8	358
PAR P1	A07N1	1-06 *	P								0-7/8	358
PAR P1	A08N1	1-07 *	P									358
PAR P1		1									5-2/8	358

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PB L	A01N2	1-01 *	P									0-7/8	359
PB L	A02N2	1-02 *	P									0-7/8	359
PB L	A03N2	1-03 *	P									0-7/8	359
PB L	A04N2	1-04 *										6-7/8	359
PB L	C03S1	1-05 *	P									0-7/8	359
PB L	C04S1	1-06 *	P									0-7/8	359
PB L	C05S1	1-07 *	P									0-7/8	359
PB L	C06S1	1-08 *	P									0-7/8	359
PB L	C07S1	1-09 *	P									0-7/8	359
PB L	C08S1	1-10 *	P									0-7/8	359
PB L	C09S1	1-11 *										7-5/8	359
PB L	A05N2	1-12 *	P									0-7/8	359
PB L	A06N2	1-13 *	P									0-7/8	359
PB L	A07N2	1-14 *	P									0-7/8	359
PB L	A08N2	1-15 *										0-7/8	359
PB L	A09N2	1-16 *										0-7/8	359
PB L		1										25-7/8	359
RESERVED M BUS	C01E1	1-01 *										3-7/8	360
RESERVED M BUS	B02A1	1-02 *	P									0-7/8	360
RESERVED M BUS	B03A1	1-03 *	P									0-7/8	360
RESERVED M BUS	B04A1	1-04 *	P									0-7/8	360
RESERVED M BUS	B05A1	1-05 *	P									0-7/8	360
RESERVED M BUS	B06A1	1-06 *	P									0-7/8	360
RESERVED M BUS	B07A1	1-07 *	P									0-7/8	360
RESERVED M BUS	B08A1	1-08 *	P									0-7/8	360
RESERVED M BUS		1										9-1/8	360
SACK L	A01R2	1-01 *	P									0-7/8	361
SACK L	A02R2	1-02 *	P									0-7/8	361
SACK L	A03R2	1-03 *	P									0-7/8	361
SACK L	A04R2	1-04 *										14-3/8	361
SACK L	F03T2	1-05 *	P									0-7/8	361
SACK L	F04T2	1-06 *	H							2' TWP		0-7/8	361
SACK L	F05T2	1-07 *	P									0-7/8	361
SACK L	F06T2	1-08 *	P									0-7/8	361
SACK L	F07T2	1-09 *	P									0-7/8	361
SACK L	F08T2	1-10 *	P									0-7/8	361
SACK L	F09T2	1-11 *										15-7/8	361
SACK L	A05R2	1-12 *	P									0-7/8	361
SACK L	A06R2	1-13 *	P									0-7/8	361
SACK L	A07R2	1-14 *	P									0-7/8	361
SACK L	A08R2	1-15 *	P									0-7/8	361
SACK L	A09R2	1-16 *	P									0-7/8	361
SACK L		1										41-5/8	361
SSYN L (1)	B01U1	1-01 *	P									0-7/8	362
SSYN L (1)	B02U1	1-02 *	P									0-7/8	362
SSYN L (1)	B03U1	1-03 *	P									0-7/8	362
SSYN L (1)	B04U1	1-04 *	H							TWP		7-3/8	362
SSYN L (1)	E03J1	1-05 *	P									0-7/8	362
SSYN L (1)	E04J1	1-06 *										2-5/8	362
SSYN L (1)	F04C1	1-07 *	P									0-7/8	362
SSYN L (1)	F03C1	1-08 *	P									0-7/8	362
SSYN L (1)		1										14-3/8	362

DD11P.C
RUN NAME

YGWRAP 35(102)=1 03-JUN-77
A/P PIN ORDER BAY = Q
NAME PIN ORDER

DRAW RV RG Y X Z
OPT

REMARKS

10-JUL-78

9:17 PAGE 49
NC LENGTH EXCEPTIONS
FLAG

RUN
NUMBER

SSYN L (2)	B09U1	1-01 *	P									0-7/8	363
SSYN L (2)	B08U1	1-02 *	P									0-7/8	363
SSYN L (2)	B07U1	1-03 *	P									0-7/8	363
SSYN L (2)	B06U1	1-04 *	P									0-7/8	363
SSYN L (2)	B05U1	1-05 *	H							TWP		9-1/8	363
SSYN L (2)	E09J1	1-06 *	P									0-7/8	363
SSYN L (2)	E08J1	1-07 *	P									0-7/8	363
SSYN L (2)	E07J1	1-08 *	P									0-7/8	363
SSYN L (2)	E06J1	1-09 *	P									0-7/8	363
SSYN L (2)	E05J1	1-10 *										2-5/8	363
SSYN L (2)	F05C1	1-11 *	P									0-7/8	363
SSYN L (2)	F06C1	1-12 *	P									0-7/8	363
SSYN L (2)	F07C1	1-13 *	P									0-7/8	363
SSYN L (2)	F08C1	1-14 *	P									0-7/8	363
SSYN L (2)	F09C1	1-15 *	P									0-7/8	363
SSYN L (2)		1										22-2/8	363
SSYN L JMP	F05C1	1-01 *	H							2' TWP		0-7/8	364
SSYN L JMP	F04C1	1-02 *										0-7/8	364
SSYN L JMP		1										0-7/8	364

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FIELD MAINTENANCE PRINT SET

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TABLE OF CONTENTS

FIELD MAINT. PRINT SET BAII-L	B-TC-BAII-L-1
BOX 5.25 BAII-L	E-UA-BAII-L-0
BOX 5.25 BAII-L(PARTS LIST)	A-PL-BAII-L-0
PRINT SET H777-B	MP00016
CONSOLE ASSY. EXPANSION BOX	D-AD-70I2540-0-0
INSTALLATION AID	E-AD-70I2588-0-0
DRAWING DIRECTORY BAII-L	B-DD-BAII-L
SHIPPING LIST	A-PL-BAII-L-4
PRINT SET H777-VOL 2	MP 00309

UNIT VARIATIONS COVERED BY THIS PRINT SET	
BAII-LA	MANUFACTURING USE ONLY
BAII-LB	
BAII-LC	
BAII-LD	EXPANSION BOX
BAII-LE	
BAII-LF	
BAII-LH	MANUFACTURING USE ONLY
BAII-LJ	
BAII-LK	
BAII-LL	
BAII-LM	
BAII-LN	

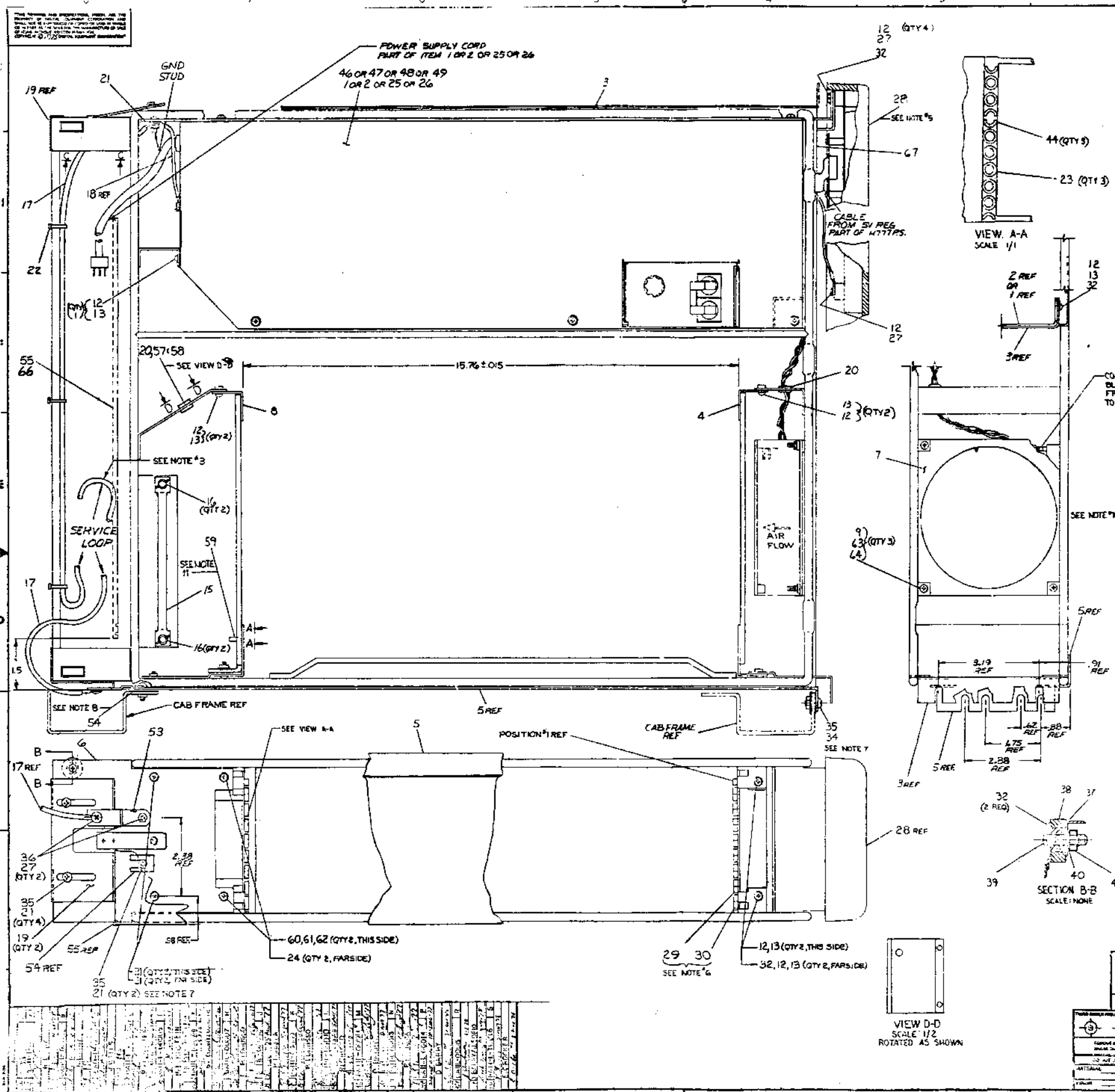
BAII-L Field Maintenance Print Set

Digital Equipment
Corporation

PRINT SET ORDER NO.
MP00018

REVISIONS		USED ON OPTION/MODEL	DRN.	DATE	TITLE: FIELD MAINTENANCE PRINT SET BAII-L	digital	
DATE	CHG. NO.					FIELD MAINTENANCE PRINT SET BAII-L	
APR-76	BAII-L-4	11/84	D. HEALY	9/30/75			
OCT-76	BAII-L-6	11/34	CHK'D D. HEALY	9/30/75			
MAR-77	BAII-L-8		PROJ. ENG. <i>R. Barry</i>	10-22-75			
APR-77	BAII-L-9		FIELD SERV.				
JUL-77	BAII-L-11						
DEC-77	BAII-L-14						

100



NOTES:

~~USE ITEM #17 SERVICE LOOP SHOULD BE 24 INCHES.~~

~~USE ITEM #54 TO TAKE UP ANY GAP PRESENT BETWEEN ENCLOSURE AND CABINET UPRIGHTS.~~

3. ITEM #17 SERVICE LOOP SHOULD BE 24 INCHES.

4. BAIL-LA, LB, LC, LD, LE, LF, LG, LH AND LN (MANUFACTURING USE ONLY). BAIL-LE, LF, LH AND LJ (BAIL EXPANSION BOX).

5. ADD CONSOLE FOR EXPANSION BOX ONLY.

6. ALTERNATE COLORS: POSITIONS 1, 3, 5, 7 & 9 TO HAVE MAGENTA. POSITIONS 2, 4, 6, & 8 TO HAVE NATURAL.

7. HARDWARE FOR MOUNTING ITEM 5 (ENCLOSURE ASSEMBLY) TO CABINET.

8. ITEM #54 TO BE USED A/R TO TAKE UP ANY GAP PRESENT BETWEEN ENCLOSURE AND CABINET UPRIGHTS.

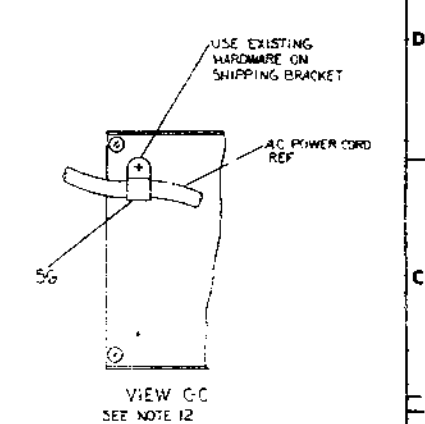
9. ~~EXPANDER BOX VERSIONS BAIL-LE, LF, LH & LJ CANNOT BE CONFIGURED WITH 4 OR 9 SLOT BACKPLANE THAT HAVE POWER HARNESS ROUTED ALONG BOTTOM (SLOT 9) A WIRE STRIPPING HAZARD WOULD EXIST IF THESE COMBINATIONS WERE CONFIGURED AS SUCH. EXAMPLES OF PROBLEMATIC BACKPLANE CONFIGURATIONS ARE: R011-D, D011-AA, DAIL-F, TMB11, DD11-B, DQ11-AB, RH11, DM11, DB11-A, DJ11, VT48 & VT11.~~

10. EXPANDER BOX VERSIONS BAIL-LE, LF, LH & LJ CANNOT BE CONFIGURED WITH 4 OR 9 SLOT BACKPLANE THAT HAVE POWER HARNESS ROUTED ALONG BOTTOM (SLOT 9) A WIRE STRIPPING HAZARD WOULD EXIST IF THESE COMBINATIONS WERE CONFIGURED AS SUCH. EXAMPLES OF PROBLEMATIC BACKPLANE CONFIGURATIONS ARE: R011-D, D011-AA, DAIL-F, TMB11, DD11-B, DQ11-AB, RH11, DM11, DB11-A, DJ11, VT48 & VT11.

NOTES CONT'N ON SHEET 2

LEGEND

PART NO.	VARIATION
BAIL-LA	5.25 BOX+H777-AA 115V CORE+MOS
BAIL-LB	5.25 BOX+H777-AB 230V
BAIL-LC	5.25 BOX+H777-BA 115V MOS ONLY
BAIL-LD	5.25 BOX+H777-BB 230V MOS ONLY
BAIL-LE	5.25 BOX+H777-CA 115V+CONSOLE (CORE+MOS)
BAIL-LF	5.25 BOX+H777-CB 230V+CONSOLE (CORE+MOS)
BAIL-LH	5.25 BOX+H777-DA 115V+CONSOLE (MOS ONLY)
BAIL-LJ	5.25 BOX+H777-DB 230V+CONSOLE (MOS ONLY)
BAIL-LK	5.25 BOX+H777-CA 115V CORE+MOS
BAIL-LL	5.25 BOX+H777-CB 230V CORE+MOS
BAIL-LM	5.25 BOX+H777-DA 115V MOS ONLY
BAIL-LN	5.25 BOX+H777-DB 230V MOS ONLY



FOR PARTS LIST SEE A-PL-BAIL-L-O

REV	DESCRIPTION	DATE	BY	CHKD
1	ISSUED FOR MANUFACTURE	11/04		

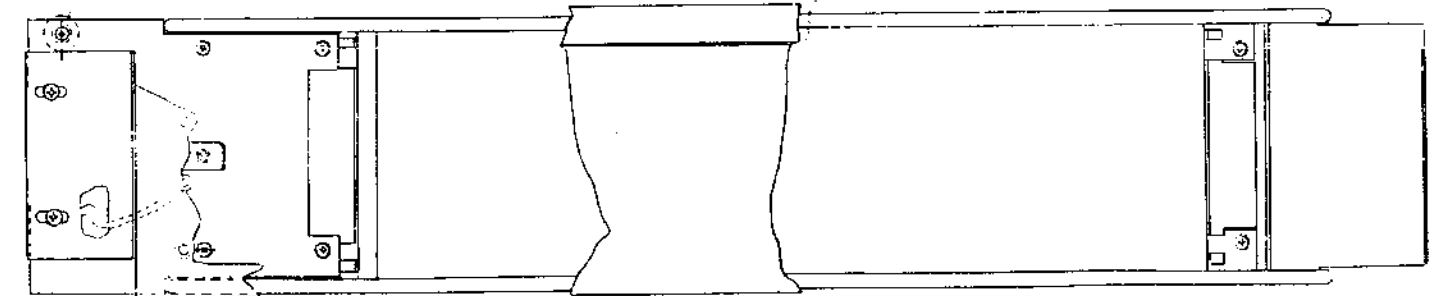
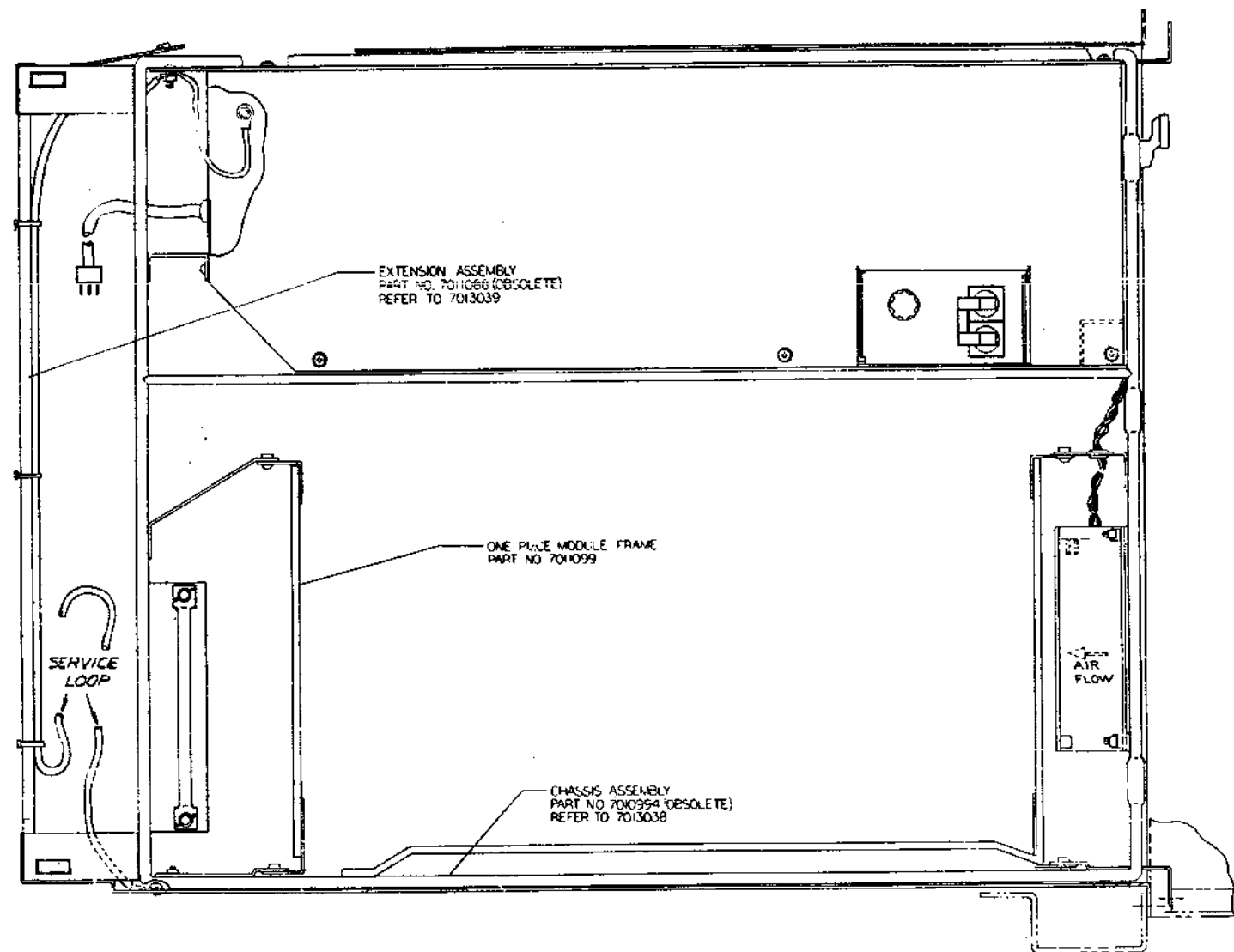
BOX 5.25 BAIL-L (230V/115V)

REV 1

THIS DRAWING IS A TECHNICAL DRAWING AND IS NOT TO BE USED FOR CONSTRUCTION PURPOSES WITHOUT THE APPROVAL OF THE DESIGN ENGINEER.

NOTES: (CONT FROM SHEET 1)

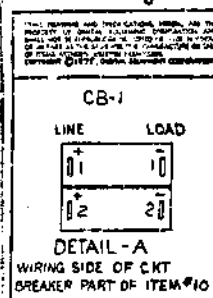
1. ITEM NUMBER 59 IS A STIFFENING BRACKET AND MAY BE LEFT IN OR REMOVED AT FINAL DESTINATION AT USER'S OPTION. IF LEFT IN IT WILL NOT INHIBIT ANY USER FUNCTIONS. IT IS TO BE PLACED OVER THE THREADED INSERTS IN FRAME BRACKET 741383 AS SHOWN AND FASTENED BY MEANS OF AN OVER SIZED WASHER AND NUT.
2. ITEM #56 AND THE AC POWER CORD ARE TO BE SHIPPED LOOSE P.C.E. AND INSTALLED AT SITE LOCATION.
3. ITEM #68 NOT SHOWN, IT IS USED IN SHIPPING ONLY.



THIS VIEW IS FOR REF ONLY AND CONTAINS INFORMATION PERTINENT TO ASSEMBLY REVISIONS - THRU E

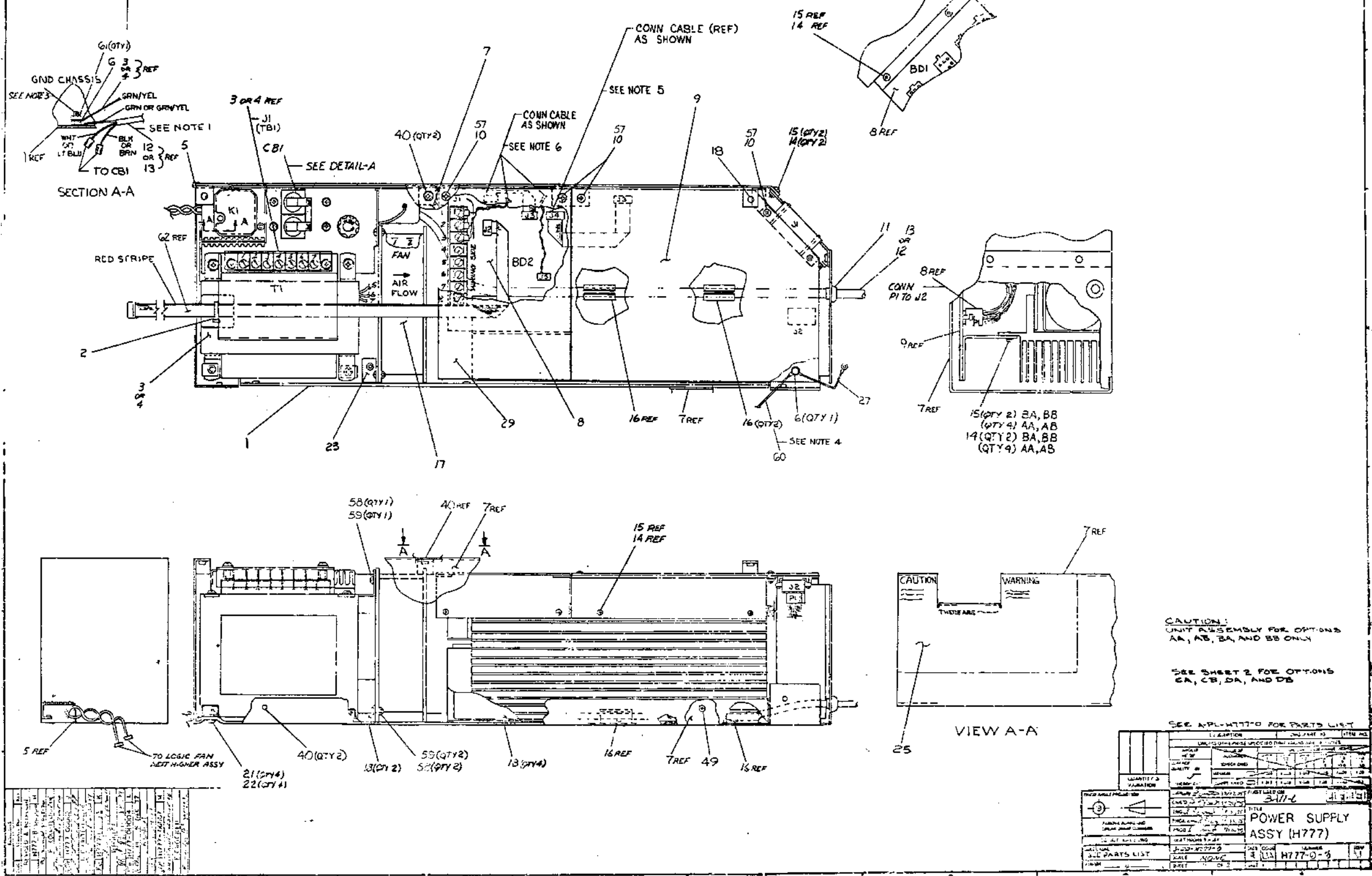
DESCRIPTION		QTY	PART NO.	REV.
1	BOX 5.25 BAIH-L (230V/115V)	1	701099	1
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102



WIRE TABLE							LEGEND	
ITEM NO	AWG	COLOR	FROM CONNECTION	WTH	TO CONNECTION	WTH	PART NO	VARIATION
12	14	BLK	-	-	304	CB-1-20LINE	H777-3A	P.S. MOS ONLY 115V
13	14	WHT	-	-	304	CB-1-20LINE	H777-3B	P.S. MOS ONLY 230V
13	14	GRN	-	-	1	GND CHASSIS	H777-AA	P.S. CORE/MOS 115V
4	14	BLU	T1-5	-	8	J1-7 (3D2)	H777-AB	P.S. CORE/MOS 230V
4	14	GRN/YEL	T1-4	-	8	J1-6 (BD2)		
3	14	BLU	T1-7	-	8	J1-8 (BE2)		
8	18	GRY	-	-	8	J1-4 (BD1)		
8	18	BLK	-	-	8	J1-5 (BD1)		
8	18	WHT	-	-	8	FAN-1		
8	18	BLK	-	-	8	FAN-2		
304	14	GRN/YEL	EMI-3 (REF)	-	8	GND CHASSIS		
60	14	GRN/YEL	GND CHASSIS	6				CONSOLE GND
27	14	GRN/YEL	GND CHASSIS	6				CHASSIS GND
14	14	BLK	ITEM # 29	-	8	J1-3 (3D2)		FROM CORE REG
14	14	GRN	ITEM # 29	-	8	J1-2 (3D2)		FROM CORE REG
14	14	BRN	ITEM # 29	-	8	J1-1 (3D2)		FROM CORE REG

- NOTES:
1. MAKE 5 INCH SERVICE LOOP AT HOOP UP 1 IN.
 2. APPLY SELF STICK NS SHEET (ITEM #2A) TO UNDER SIDE OF POWER SUPPLY COVER IN AREA OF HEAT SINKS (CORE & MOS REGS).
 3. APPLY SELF STICK ITEM #2G BESIDE THIS GND STUD.
 4. ITEM #60 IS A GND CABLE TO GND THE FRONT PANEL CASTINGS FOR MOS AND CORE REGULATORS.
 5. CABLE PART OF ITEM #9.
 6. CABLE # WIRES ARE PART OF ITEM #29



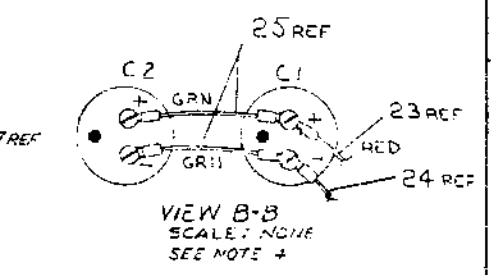
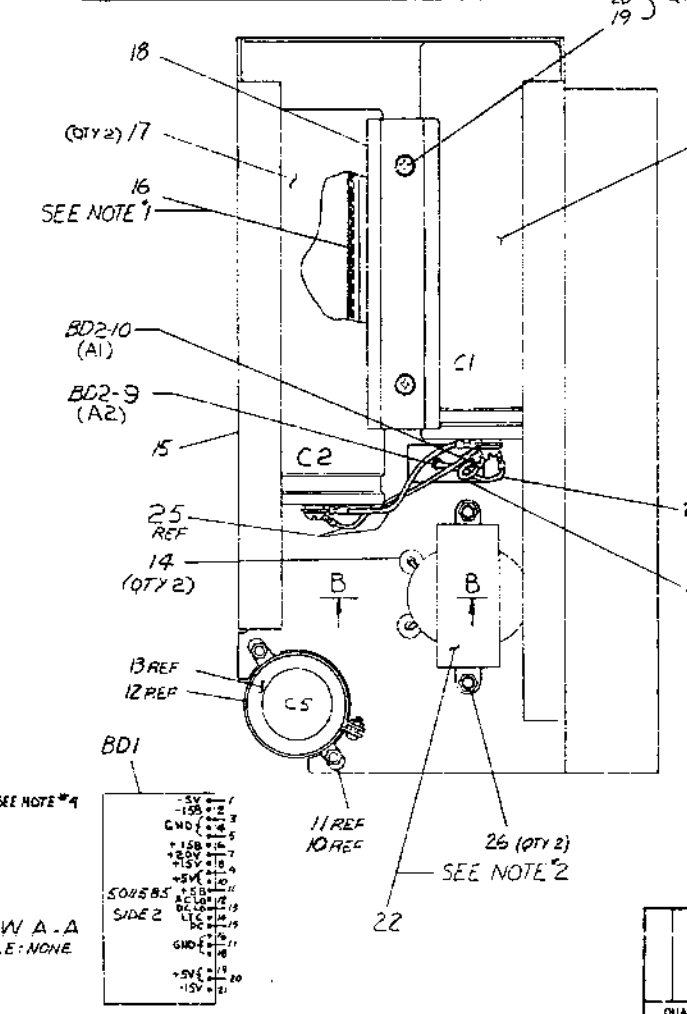
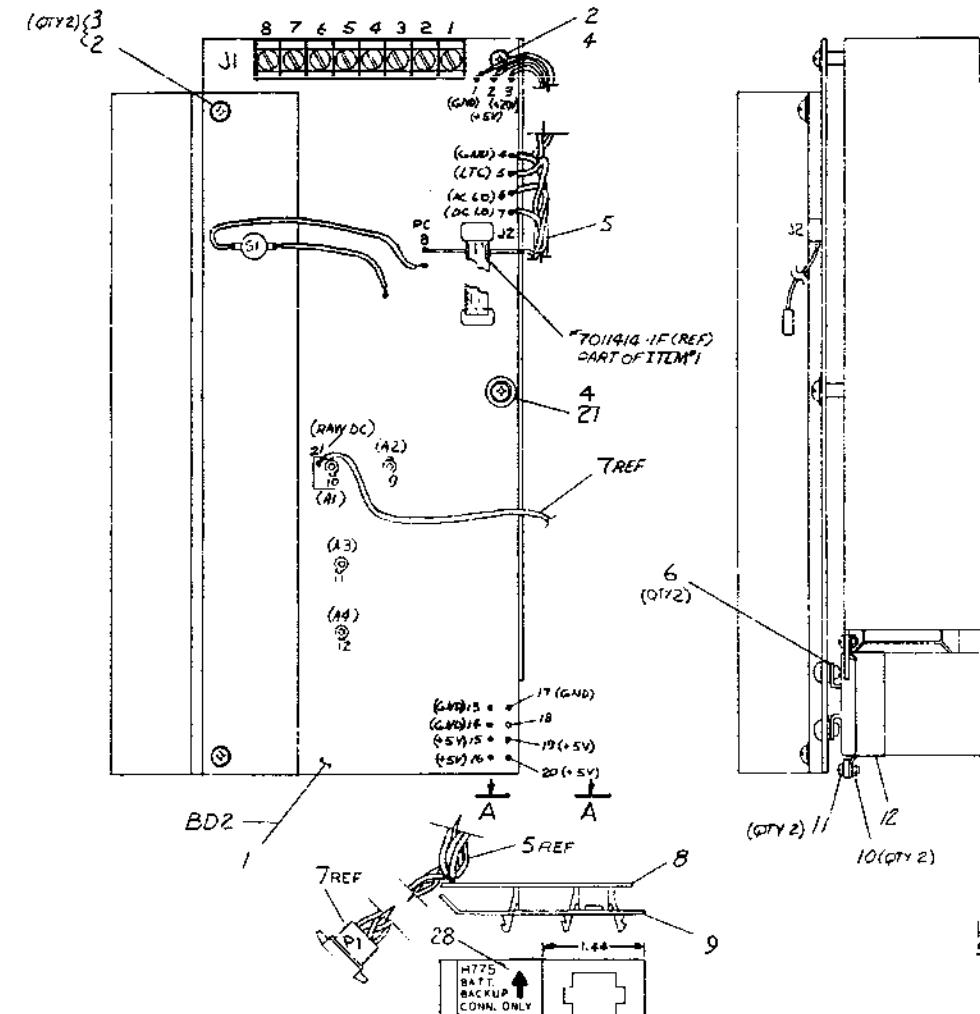
ITEM NO	DESCRIPTION	QTY	UNIT
1	...	1	...
2	...	2	...
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WIRE CHART

ITEM NO	FROM				TO				ITEM NO	FROM				TO			
	AWG	COLOR	POINT NO	CONN	POINT NO	CONN	POINT NO	CONN		AWG	COLOR	POINT NO	CONN	POINT NO	CONN		
5	20	WHT	1	B02-8	18	B01-15			7	14	BLK	28	B02-13	11	B01-4		
	14	BRN	2	2	9	1		7		18	GRY	4	B01-8	*3			
	14	BLK	3	1	12	5				14	WHT	5	B01-6	*10			
	14	ORN	4	3	13	7				14	RED	6	B02-21	*13			
	20	BRN	5	5	19	14				18	GRN	7	B01-12				
20	BLK	6	4	20	16		25		14	GRN		C1(+)		C2(+)			
7	20	YEL	7	6	16	12		7	14	RED	27	B02-20	23	B01-20			
	20	VIO	8	7	17	13			18	BLU	1	B01-21	*11				
	14	BLK	30	B02-17	10	B01-3			14	BLK	2	B01-18	*8				
									18	RED	3	B01-11	*14				
									22	BARE					B02-11		

- ### NOTES:
- USE ITEM #6 (SHIMMET) TO COVER RAW METAL EDGES UNDER CAPACITORS.
 - LEADS FROM ITEMS #22, #23 & #24 ARE TO BE CUT FLUSH WITH TOP OF CLAMPS ON ITEM #1. A1, A2, A3 & A4
 - * ASTERISK INDICATES THAT THESE CONN. ALREADY HAVE BEEN MADE ON PLUG P1 ON HARNESS D-2A-7011800-0-0 THEY ARE SHOWN FOR REF ONLY
 - ITEMS #17 & #18 ARE TO HAVE THEIR ELECTRICAL CONNECTIONS TORQUED TO 12 IN-LBS (-0, +10) IN-LBS



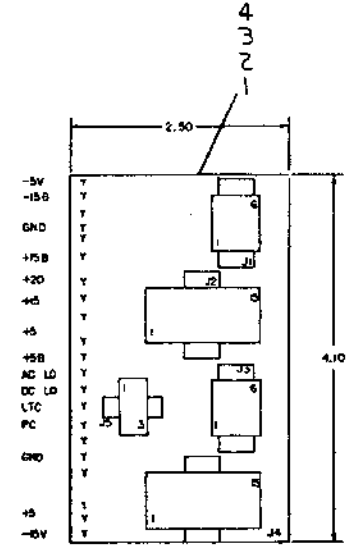
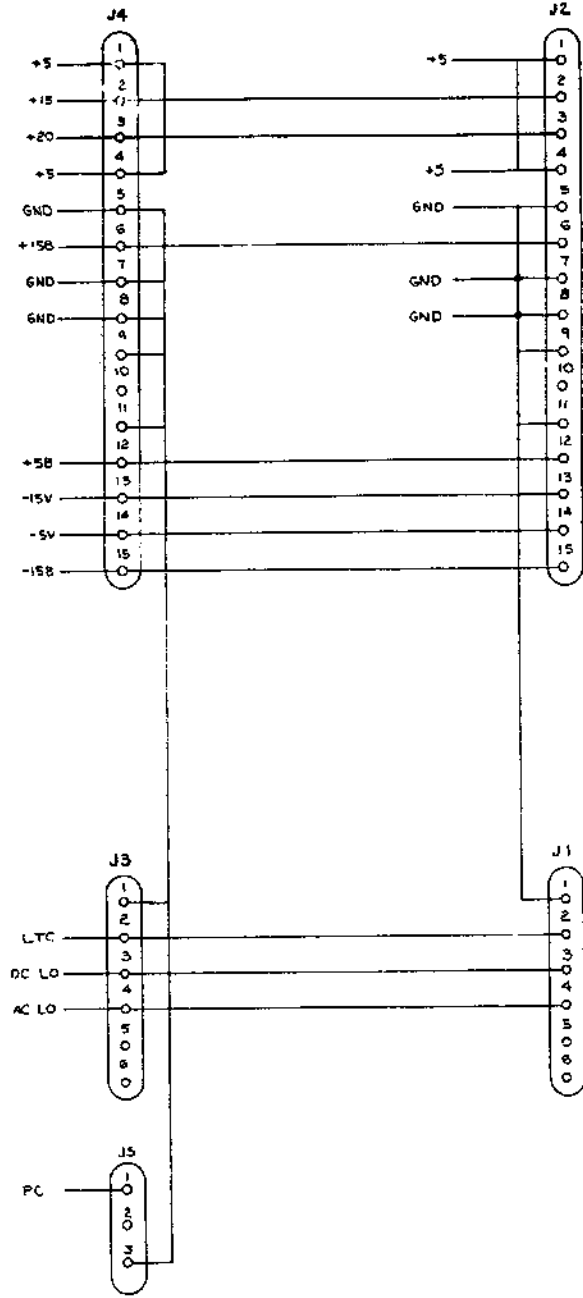
ITEM NO	DESCRIPTION	DWG. PART NO.	ITEM NO.
1	DECAL	A-06-7414911-0-0	28
1	WASHER NYLON #6	9006701	27
2	NUT KEPS #8-32	9006663	26
2	JUMPER (GRN)	B-2A-7011800-0-0	25
1	JUMPER (BLK)	B-2A-7011802-0-0	24
1	JUMPER (RED)	B-2A-7011801-0-0	23
1	CHOKER	1A/25B4	22
2	SPACER HEX #8-32 X 1/8" L	900825B	21
2	WASHER INT TOOTH LOCK #8	9006634	20
2	SCR PHIL HD PAN #8-32 X .506	9006037-1	19
1	CLAMP CAPACITOR	GMD-14A021-0-0	18
2	CAPACITOR 25V 1/2 50V	1010702	17
1/4	GRONMET CLEDDOLLAR	9007035	16
1	BRACKET CAPACITOR	C-2A-H13743-0-0	15
2	SPACER HEX #8-32 X 1/8" L	9007017	14
1	CAPACITOR 3700UF 16.0V 60V	1012750	13
1	CLAMP CAPACITOR	9009052	12
2	SCR PHIL PAN #6-32 X .25 L	9006070-1	11
2	NUT KEPS #6-32	9008185	10
1	BRACKET CONN	D-2A-7413752-0-0	9
1	BOARD, PWR DISTR. H777	D-2A-541586-0-1	8
1	HARNESS B01 REG REG PWR DISTR	D-2A-7011560-0-0	7
2	WASH. 325 O.D. X .167 I.D. X .036	9006660	6
1	HARNESS H777 +5V REG	D-2A-7011415-0-0	5
2	SCR PHIL HD PAN #6-32 X .31 L	9006021-1	4
2	SCR PHIL HD PAN #6-32 X .50 L	9006033-1	3
3	WASHER INT TOOTH LOCK #8	9006633	2
1	H777 +5V REGULATOR	D-2A-541557-0-1	1

REV	DESCRIPTION	DATE
1	INITIAL DESIGN	11-15-75
2	REVISED TO ADD BATTERY BACKUP	12-15-75
3	REVISED TO ADD BATTERY BACKUP	1-15-76
4	REVISED TO ADD BATTERY BACKUP	2-15-76
5	REVISED TO ADD BATTERY BACKUP	3-15-76
6	REVISED TO ADD BATTERY BACKUP	4-15-76
7	REVISED TO ADD BATTERY BACKUP	5-15-76
8	REVISED TO ADD BATTERY BACKUP	6-15-76
9	REVISED TO ADD BATTERY BACKUP	7-15-76
10	REVISED TO ADD BATTERY BACKUP	8-15-76
11	REVISED TO ADD BATTERY BACKUP	9-15-76
12	REVISED TO ADD BATTERY BACKUP	10-15-76
13	REVISED TO ADD BATTERY BACKUP	11-15-76
14	REVISED TO ADD BATTERY BACKUP	12-15-76
15	REVISED TO ADD BATTERY BACKUP	1-15-77
16	REVISED TO ADD BATTERY BACKUP	2-15-77
17	REVISED TO ADD BATTERY BACKUP	3-15-77
18	REVISED TO ADD BATTERY BACKUP	4-15-77
19	REVISED TO ADD BATTERY BACKUP	5-15-77
20	REVISED TO ADD BATTERY BACKUP	6-15-77
21	REVISED TO ADD BATTERY BACKUP	7-15-77
22	REVISED TO ADD BATTERY BACKUP	8-15-77
23	REVISED TO ADD BATTERY BACKUP	9-15-77
24	REVISED TO ADD BATTERY BACKUP	10-15-77
25	REVISED TO ADD BATTERY BACKUP	11-15-77
26	REVISED TO ADD BATTERY BACKUP	12-15-77
27	REVISED TO ADD BATTERY BACKUP	1-15-78
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30	REVISED TO ADD BATTERY BACKUP	4-15-78
31	REVISED TO ADD BATTERY BACKUP	5-15-78
32	REVISED TO ADD BATTERY BACKUP	6-15-78
33	REVISED TO ADD BATTERY BACKUP	7-15-78
34	REVISED TO ADD BATTERY BACKUP	8-15-78
35	REVISED TO ADD BATTERY BACKUP	9-15-78
36	REVISED TO ADD BATTERY BACKUP	10-15-78
37	REVISED TO ADD BATTERY BACKUP	11-15-78
38	REVISED TO ADD BATTERY BACKUP	12-15-78
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41	REVISED TO ADD BATTERY BACKUP	3-15-79
42	REVISED TO ADD BATTERY BACKUP	4-15-79
43	REVISED TO ADD BATTERY BACKUP	5-15-79
44	REVISED TO ADD BATTERY BACKUP	6-15-79
45	REVISED TO ADD BATTERY BACKUP	7-15-79
46	REVISED TO ADD BATTERY BACKUP	8-15-79
47	REVISED TO ADD BATTERY BACKUP	9-15-79
48	REVISED TO ADD BATTERY BACKUP	10-15-79
49	REVISED TO ADD BATTERY BACKUP	11-15-79
50	REVISED TO ADD BATTERY BACKUP	12-15-79

QUANTITY & VARIATION	DESCRIPTION	DWG. PART NO.	ITEM NO.
1	DECAL	A-06-7414911-0-0	28
1	WASHER NYLON #6	9006701	27
2	NUT KEPS #8-32	9006663	26
2	JUMPER (GRN)	B-2A-7011800-0-0	25
1	JUMPER (BLK)	B-2A-7011802-0-0	24
1	JUMPER (RED)	B-2A-7011801-0-0	23
1	CHOKER	1A/25B4	22
2	SPACER HEX #8-32 X 1/8" L	900825B	21
2	WASHER INT TOOTH LOCK #8	9006634	20
2	SCR PHIL HD PAN #8-32 X .506	9006037-1	19
1	CLAMP CAPACITOR	GMD-14A021-0-0	18
2	CAPACITOR 25V 1/2 50V	1010702	17
1/4	GRONMET CLEDDOLLAR	9007035	16
1	BRACKET CAPACITOR	C-2A-H13743-0-0	15
2	SPACER HEX #8-32 X 1/8" L	9007017	14
1	CAPACITOR 3700UF 16.0V 60V	1012750	13
1	CLAMP CAPACITOR	9009052	12
2	SCR PHIL PAN #6-32 X .25 L	9006070-1	11
2	NUT KEPS #6-32	9008185	10
1	BRACKET CONN	D-2A-7413752-0-0	9
1	BOARD, PWR DISTR. H777	D-2A-541586-0-1	8
1	HARNESS B01 REG REG PWR DISTR	D-2A-7011560-0-0	7
2	WASH. 325 O.D. X .167 I.D. X .036	9006660	6
1	HARNESS H777 +5V REG	D-2A-7011415-0-0	5
2	SCR PHIL HD PAN #6-32 X .31 L	9006021-1	4
2	SCR PHIL HD PAN #6-32 X .50 L	9006033-1	3
3	WASHER INT TOOTH LOCK #8	9006633	2
1	H777 +5V REGULATOR	D-2A-541557-0-1	1

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NOTES:



REF	X-Y COORDINATE HOLE LOCATION	K-CO-541586-0-1
REF	ASSY DRILLING HOLE LAYOUT	D-MN-541586-0-3
REF	MODULE ECO HISTORY	B-MN-541586-0-6
1	ETCHED CIRCUIT BOARD	5011585
2	J2,J4	CONN., MATE-N-LOCK, 15 PIN HOUSING 1209350-15
2	J1,J3	CONN., MATE-N-LOCK, 5 PIN HOUSING 1209350-06
45		PIN CONTACT, MATE-N-LOCK 1209456-01
1	J5	CONN., MATE-N-LOCK, 3 PIN HOUSING 1209350-03

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

QTY	REF DESIGNATION	DESCRIPTION	PART NO	ITEM NO
PARTS LIST				
FIRST USED ON OPTION MODEL 1104 PWR SUPPLY				
ETCH BOARD REV D				
REV	CHANGE NO	DATE	TITLE	
D	1	5/27/75	BOARD, POWER DISTRIBUTION H777	
D	2	7-23-75	NEXT HIGHER ASSY	
D	3	8-23-75	SCALE NONE	
D	4	2-3-75	SHEET 1 OF 1	
D	5	EST	EST	

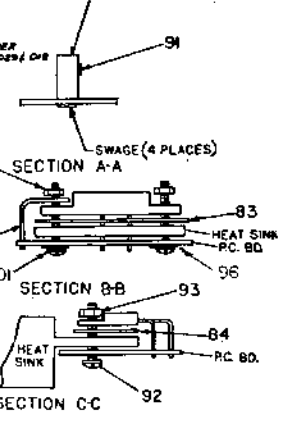
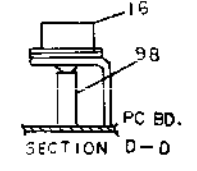
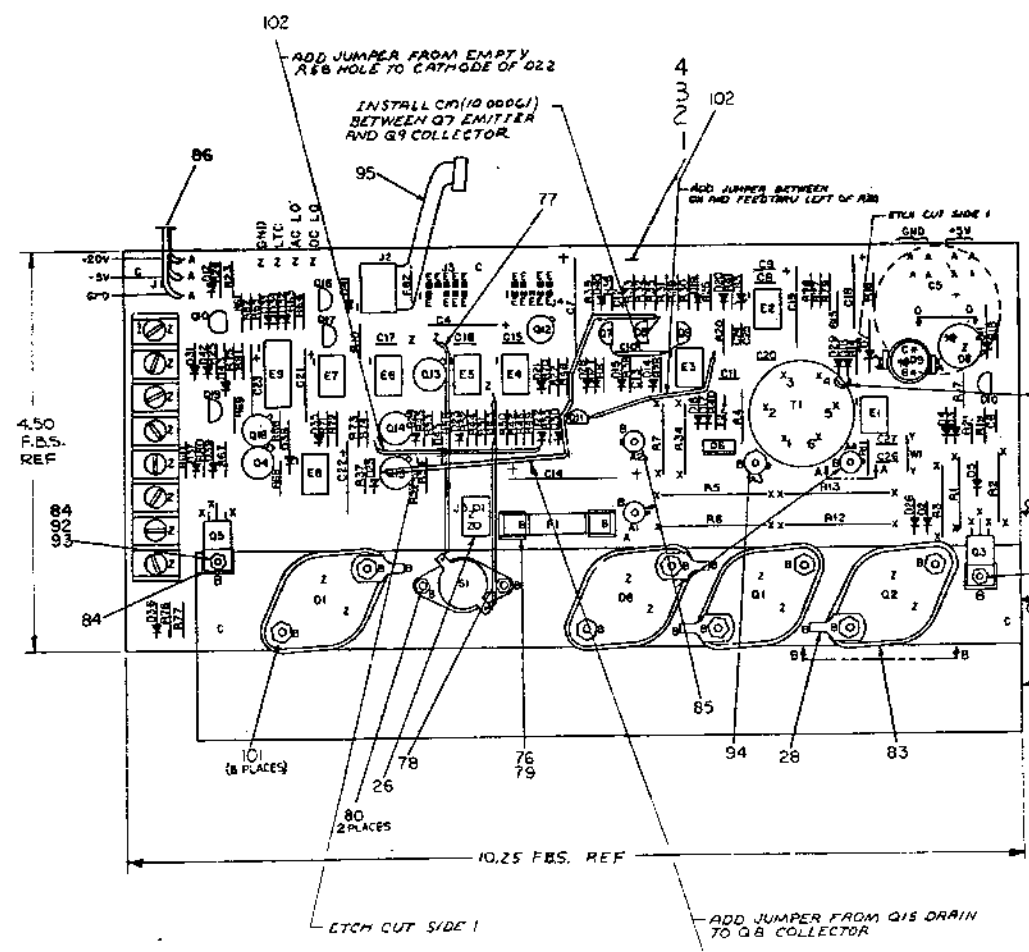
digital EQUIPMENT CORPORATION
 TITLE: BOARD, POWER DISTRIBUTION H777
 DRAWING NUMBER: DCS1541586-0-1
 REV: C

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NOTES:
1. HARDWARE ON DI, Q1, Q2, D6, S1, C5 MUST BE TORQUED TO 12 IN-LBS (-0, +1)

QTY	REF DESIGNATION	SUBSTITUTION LIST DESCRIPTION	PART NO.	ITEM NO.
1	C19	CAPACITOR, 15 μ F, 50V, POLYCARB	1010031-08	12
1	D1	DIODE	1112723-01	23
8	C6, C9, C11, C20, C24-C27	CAPACITOR, 01 μ F, 50V	1001610-00	9

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1	C12	CAPACITOR, 100 μ F, 100V, 5% DM	1000018	5
1	C13	CAPACITOR, 470 μ F, 100V, 5% DM	1000024	8
1	C14	CAPACITOR, 50 μ F, 50V, AL EL	1000080	7
8	C6, C9, C11, C20, C24-C27	CAPACITOR, 01 μ F, 100V DISC	1001610-01	9
2	C22, C23	CAPACITOR, 1 μ F, 35V, 10% TANT	1001716	9
3	C15, C16, C17	CAPACITOR, 5 μ F, 100V, 5% DM	1002425	10
1	C19	CAPACITOR, 1.5 μ F, 35V, 10% TANT	1009725	12
2	C4, C18	CAPACITOR, 2.2 μ F, 20V, 10% TANT	1002627	13
2	C7, C21	CAPACITOR, 10 μ F, 20V, 10% TANT	1004813	14
1	D11	DIODE 1N752A	1102888	15
1	D8	DIODE 1N1033B	1102341	16
25	D3, D4, D12, D14 THRU D20, D22 THRU D25, D27, D30 THRU D37, D40, D42, D5, D39, D28	DIODE D672	1105275	17
2	D21, D41, D29	DIODE 1N4004	1105736	18
1	D19	DIODE ZENER, 5.1V, 2W, 1% - 5 μ s	1110719	19
1	D6	DIODE, 10S	1110715	20
1	D10	DIODE 2N5062	1110988	21
3	D7, D43, D45	DIODE 1N751A	1110994	22
1	D1	DIODE, DUAL, 70J	1112723-00	23
2	D2, D26	DIODE AT148	1112595-01	24
1	D38	DIODE ZENER 13V 1W9648	1109988	25
1	J5	CONNECTOR 2 PIN WATE-IN-LOC	1211342-2	26
1	J1	TERMINAL BOARD 8 STATION	1212484-01	27
4		SOLDER LUG	9009676	28
18		PINS, STAKING	9059149	29
1	F2	FUSE 5A	1209070	30
2	R18, R15	RESISTOR, 100, 1/4W, 5%	1300229	31
1	R10	RESISTOR, 150, 1/4W, 5%	1300250	32
1	R2	RESISTOR, 150, 1W, 5%	1300255	33
1	R34	RESISTOR, 220, 1W, 10%	1300271	34
2	R78, R81	RESISTOR, 390, 1/4W, 5%	1300309	35
1	R29, R16	RESISTOR, 410, 1/4W, 5%	1300316	36
7	R82, R28, R38, R50, R69, R58, R54	RESISTOR, 1K, 1/4W, 5%	1300365	37
2	R8, R86	RESISTOR, 2.7K, 1/4W, 5%	1300426	38
7	R31, R60, R62, R65, R68, R15, R33	RESISTOR, 4.7K, 1/4W, 5%	1300447	39
13	R63, R75, R32, R35, R36, R37, R80, R55 THRU R57, R67, R10, R77	RESISTOR, 10K, 1/4W, 5%	1300479	40
1	R24	RESISTOR, 12, 1/4W, 5%	1301430	41
1	R4	RESISTOR, 47, 1/2W, 5%	1301695	42
6	R17, R23, R46, R40, R54, R75	RESISTOR, 270, 1/4W, 5%	1301972	43
2	R12, R74	RESISTOR, 150K, 1/4W, 5%	1302394	44
2	R26, R61	RESISTOR, 2K, 1/4W, 5%	1302388	45
4	R22, R71, R41, R73	RESISTOR, 30K, 1/4W, 5%	1302394	46
3	R48, R51, R53	RESISTOR, 56K, 1/4W, 5%	1302395	47
1	R27	RESISTOR, 100K, 1/4W, 5%	1302486	48
2	R17, R21	RESISTOR, 30, 1/4W, 5%	1302751	49
2	R43, R44	RESISTOR, 1.2K, 1/4W, 1%	1302871	50
1	R46	RESISTOR, 1K, 1/4W, 1%	1303114	51
2	R33, R14	RESISTOR, 8.2K, 1/4W, 5%	1303179	52
1	R45	RESISTOR, 10K, 1/8W, 1%	1303272	53



IC	TYPE	QTY	REF
74181	AND OR	1	8
74182	AND OR	1	8
74183	AND OR	1	8
74184	AND OR	1	8
74185	AND OR	1	8
74186	AND OR	1	8
74187	AND OR	1	8
74188	AND OR	1	8
74189	AND OR	1	8
74190	AND OR	1	8

REV	DESCRIPTION	DATE	BY	CHKD
1	ISSUED FOR PRODUCTION	11-13-73	J. H. BARTLEY	
2	REVISION	11-13-73	J. H. BARTLEY	
3	REVISION	11-13-73	J. H. BARTLEY	

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

SEMICONDUCTOR CONVERSION CHART

DEC NO.	EIA NO.

digital

H777
+5V REGULATOR

SIZE CODE: NUMBER: REV. J
DCS 5411597-0-1

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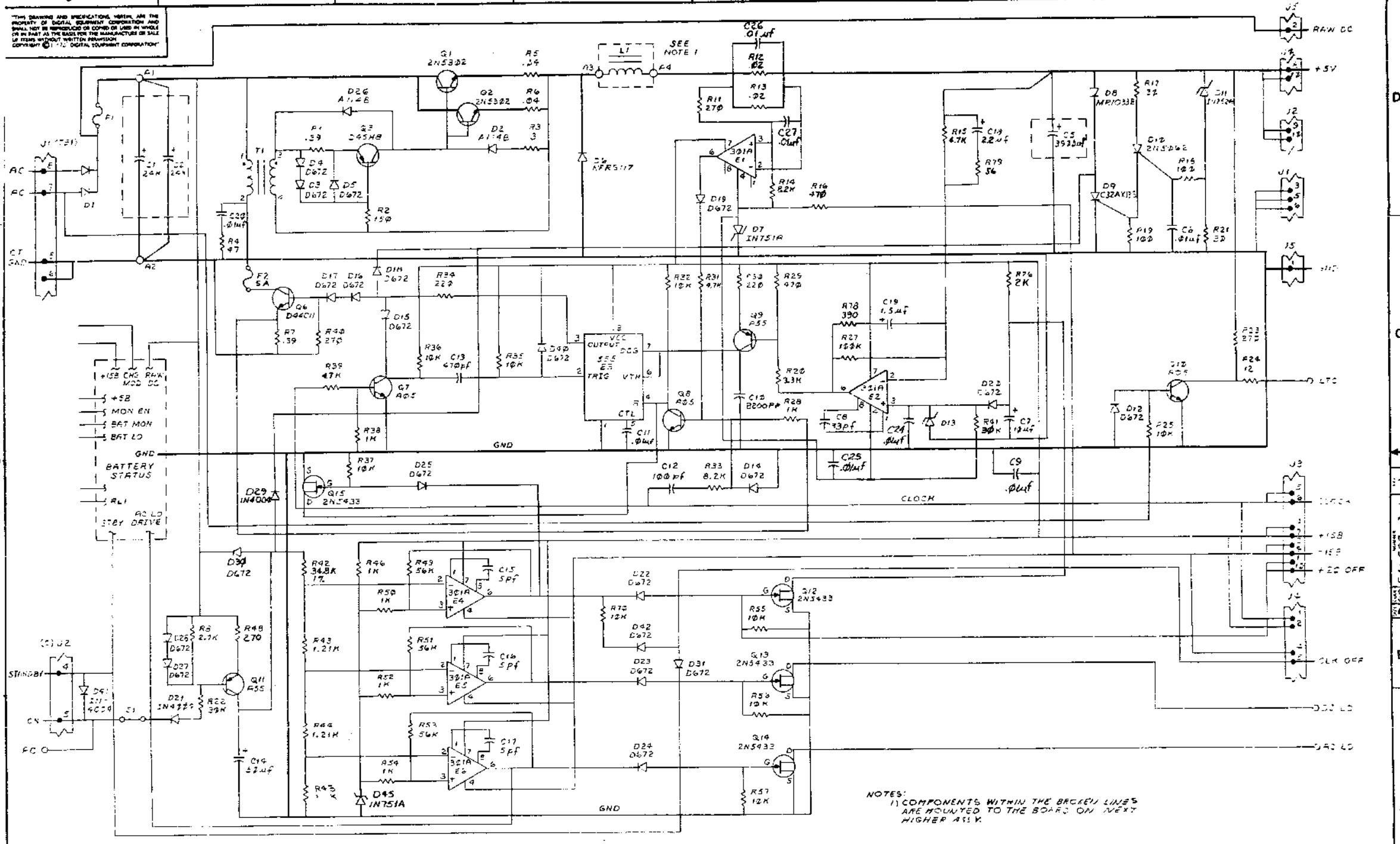
DCS 5411597-0-2

QTY	DESCRIPTION	ITEM NUMBER	REV.
1	R76	RESISTOR, 51, 1/4W, 5%	1369422
1	R78	RESISTOR, 56, 1/4W, 5%	1302602
1	R42	RESISTOR, 34.8K, 1/4W, 1%	1303156
2	R1, R1	RESISTOR, .25, 2W, 5%	1318860
2	R12, R13	RESISTOR, .02, 5W, 5%	1318978
2	R5, R6	RESISTOR, .04, 5W	1311362
1	R3	RESISTOR, 3, 2W, 5%	1312682
2	Q1, Q2	TRANSISTOR, 2N5302	1518196
3	Q7, Q8, Q10	TRANSISTOR, 405	1518705
3	Q9, Q11, Q18, Q17, Q19	TRANSISTOR, A95	1518706
2	Q3, Q5	TRANSISTOR, D49M	1518708
3	Q4, Q12 THRU Q15	TRANSISTOR, 2N5433	1518800
1	Q19	TRANSISTOR, 2N628	1518877
1	Q8	TRANSISTOR, 944C11	1512790
1	Q9	TRANSISTOR, C32A135	1518928
1	T1	TRANSFORMER PULSE	1612592
1	E8	I.C. DEC 7418	1885576
3	E1, E2, E4, E5, E6	I.C. DEC 301A	1810282
3	E3, E7, E9	I.C. DEC LM355	1811944
1	F1	FUSE 15A, 32V	8087226
1	S1	THERMOSTAT (ELWOOD)	1212787
1		HEAT SINK	7414238
2		ETELET	9006732
3		WIRE, #22 AWG STRANDED (WHITE)	9107350-99
3		WIRE, #22 AWG STRANDED (WHITE)	9107358-10
2		FUSECLIP	9007203
2		SCREW, #4-40 x 7/16 1g PHILLIPS HD	9008012-1
10		NUT, KEP #4-40	9008957
A/R		COMPOUND, THERMAL	9008268
4		INSULATOR, T03	9008419
2		INSULATOR, THERMA-FILM	9009587
3	A1, A2, A4	STANDOFF	7414048-B
REF		ASSY, HARNESS	7011415-0-0
1	B1	WIRE #18 AWG	9009185
1	C10	CAPACITOR 8200 PF 100V MYLAR	1000061
1	C8	CAPACITOR, 33 PF, 100V, 5% D.M.	1000009
			900133
4		SET SCREW #8-32 X 1/8 LG.	9006290-10
2		SCREW NYLON #4-40 X 1/2 LG.	9006402-4
2		NUT NYLON #4-40	8007992
1	A3	STANDOFF	7414048-1
1	J2	CONTROL CABLE (CONSOLE)	7011414-1F
8		WASHER, FLAT	9008172
			900133
1		SPACER, INSULATOR	9007615
1	R30	RES 220, 1/4W, 5%	1300271
1	R20	RES 33K, 1/4W, 5%	1300439
8		SCREW, PHL PAN HD 4-40 X 5/8	9006014-01
A/R		JUMPER	9105740-55
A/R		WIRE	9107267-09

CHK	CHANGE NO	REV

TITLE: H777+5V REGULATOR
 DCS 5411597-0-1
 SHEET 2 OF 4

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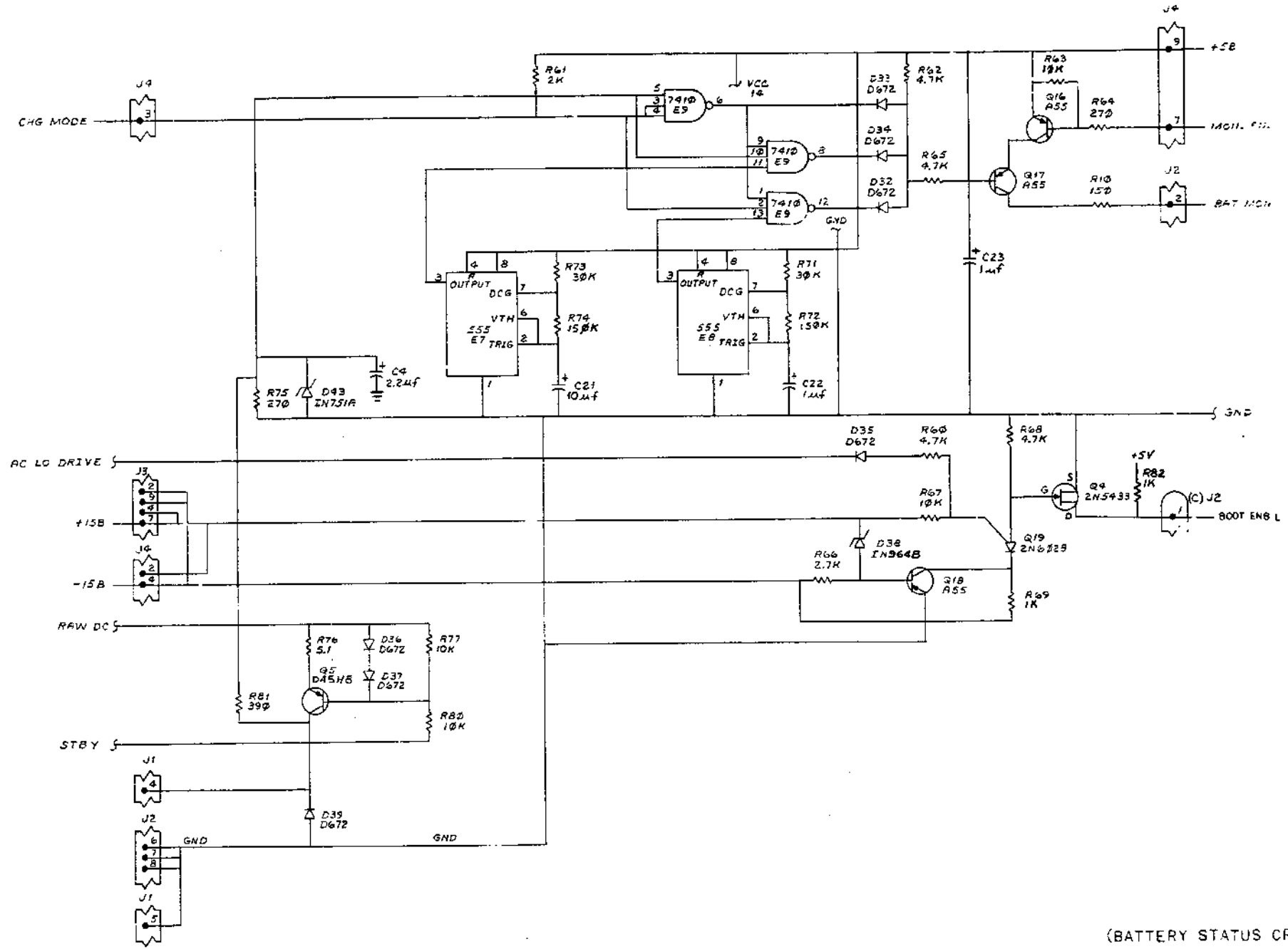


NOTES:
1) COMPONENTS WITHIN THE BRACKET LINES ARE MOUNTED TO THE BOARD ON NEXT HIGHER ASSY.

CHK	CHANGE NO	REV

TITLE	H777 +5V REGULATOR	SIZE CODE	NUMBER	REV.
SCALE	SHEET	3 OF 4	DCS 5411597-0-1	J

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(BATTERY STATUS CRKT'S)

REVISIONS		
CHK	CHANGE NO.	REV.

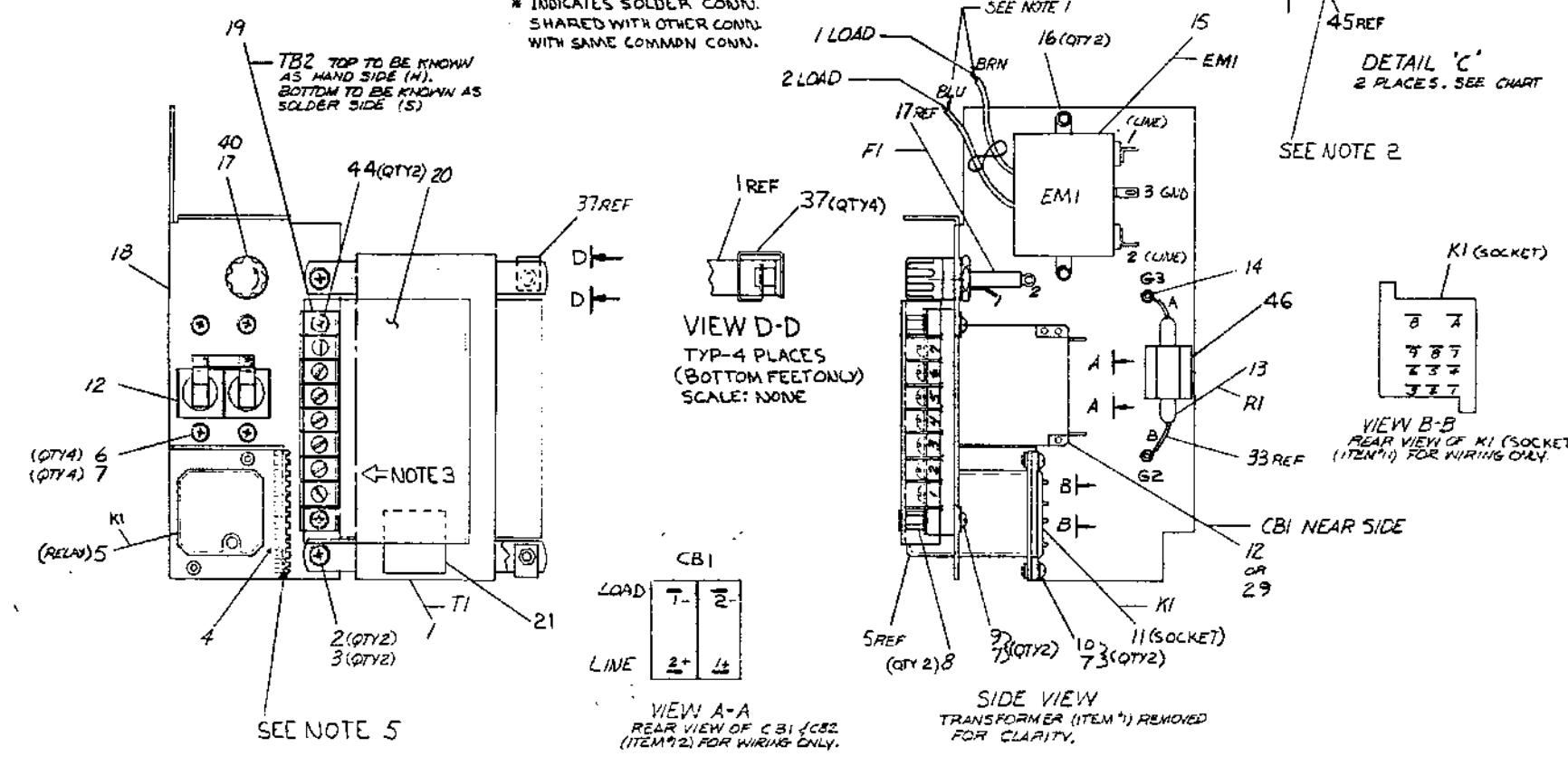
TITLE	H777 +5V REGULATOR	SIZE CODE	NUMB. IN	REV.
SCALE	SHEET 4 OF 5	DIST.	DCS 5411597-0-1	J

DCS 5411597-0-1 J

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LEGEND		WIRE CHART									
PART NO	VARIATION	ITEM NO	DESCR	FROM	TO	REMARKS	ITEM NO	DESCR	FROM	TO	REMARKS
701075-0	120 V	22	18 WHT	K1-4	*TB2-4 S	SOLD 5 1/2" L	14	BLK	T1	TB2-1H	
701075-1	230 V	23	13 BLK	K1-6	*TB2-15	SOLD 5" L	14	RED		TB2-2H	
		24	18 BRN	K1-7	TB2-5H	25,43 6 1/2" L	14	RED		TB2-2H	
		26	18 BLU	K1-9	TB2-6H	25,43 7 1/2" L	14	RED		TB2-4H	
		27	18 GRN	K1-A		25	23	18 BLK	G3	SOLD	FI-2 4" L
		26	18 BLU	G2	*TB2-65	SOLD 6" L	34	14 (QTY) 2	EMI-3	SOLD	42 8" L
		23	18 BLK	FI-1	*TB2-15	SOLD 5" L	35	18 BLK	TB2-1H		TB2-2H 120V
		15	18 BLU	EMI-2 LOAD	*TB2-45	SOLD 6" L	35	18 WHT	TB2-3H		TB2-4H 120V
		22	18 WHT	EMI-1 LOAD	*TB2-65	SOLD 6" L	13	22 BARE	RI-A		G3 230V
		22	18 BLU	EMI-2	CBI-2 LOAD	23,41 5" L	13	22 BARE	RI-B		G2 230V
		23	18 BLK	EMI-1	CBI-1 LOAD	23,41 5" L					
		45	18 WHT	*TB2-55	J2-1	30,32 4 1/2" L					
		45	18 WHT	*TB2-25	J2-2	30,32 6 1/2" L					
		45	18 WHT	*TB2-55	J3-1	30,32 15 1/2" L					
		45	18 WHT	*TB2-25	J3-2	30,32 15 1/2" L					

- NOTES:
- SECOND SOURCE FOR ITEM 15 (LINE FILTER) WILL HAVE WHT & BLK LEADS. SUBSTITUTE WHT FOR BLU AND BLK FOR BRN.
 - TWISTED PAIR WIRE TO HAVE A MIN OF 4 TWIST PER INCH AS PER WIRE CHART.
 - ALL CONNECTIONS TO TB2 ARE TO BE MADE FROM SIDE INDICATED BY ARROW.
 - USE TIE WRAPS (ITEM 38) AS NEEDED.
 - T1 PRIMARY WIRES TO TB2 MUST BE ROUTED BY ITEM 4.
 - COVER ITEM 28 WITH ITEM 31 TO COVER EXPOSED PART OF TERMINAL.



CONT. ON SHEET 2 OF 2

QTY	DESCRIPTION	QTY	DESCRIPTION	QTY	DESCRIPTION
1	JUMPER ASSY (WHT 2")	9	701798-0-0	36	
1	JUMPER ASSY (BLK 2")	3	4701797-0-0	35	
4	WIRE TIE WRAP (BRN/BLK)	9	107777-54	34	
2	TUBING INS (RED)	9	107278-02	33	
4	HOUSING SOCKET FASTAB	12	10820-1	32	
4	TUBING SHRINK (RED)	9	107305-02	31	
4	HOUSING TERM. FASTAB	12	10820-2	30	
1	CIRCUIT BREAKER, 5A	12	10191-1	29	
2	CONN FASTON (RED INS)	9	9007970	28	
4	WIRE 18 AWG INS (GRN/BLK)	9	107430-05	27	
4	WIRE 18 AWG INS (BLU)	9	107360-66	26	
2	RING CRIMP (RED INS)	9	9007929	25	
4	WIRE 18 AWG INS (BRN)	9	107360-11	24	
4	WIRE 18 AWG INS (BLK)	9	107360-00	23	
4	WIRE TIE WRAP (WHT)	9	107360-99	22	
1	MOUNT TIE WRAP	9	9008264	21	
1	SHIELD TERM	6	31741745-0	20	
1	TERMINAL 7 POS	12	12788	19	
1	BRACKET COMPREV.	6	413769-0-0	18	
1	HOLDER, FUSE	9	9007242-0	17	
2	NUT NERS #6-32	9	9009243	16	
1	FILTER LINE (EMI)	12	12748	15	
2	TERMINAL TURRET INS	9	9006966	14	
1	RESISTOR 100L 10W	13	1300173	13	
1	CIRCUIT BREAKER, 10A	12	121091-0	12	
1	SOCKET, RELAY	12	1212789	11	
2	SCR PHIL HD PAN #32X.25	9	9006021-01	10	
2	SCR PHIL HD PAN #32X.62	9	9006026-01	9	
2	SPACER HEX #6-32 X.19	9	9006842	8	
8	WASHER INT TOOTH LOCK #6	9	9006635	7	
4	SCR PHIL HD PAN #6-32 X.19	9	9006020-01	6	
1	RELAY 6012V 3P 10A	12	1210683	5	
4	GROMMET CATERPILLAR	9	9007035	4	
2	WASHER INT TOOTH LOCK #8	9	9006634	3	
2	SCR PHIL PAN HD #32 X.44	9	9006033-1	2	
1	TRANSFORMER ASSY	6	31741745-0	1	

REV	DATE	BY	CHKD	APP'D
1	11/17/77	W. J. BARRY		
2	11/17/77	W. J. BARRY		
3	11/17/77	W. J. BARRY		
4	11/17/77	W. J. BARRY		
5	11/17/77	W. J. BARRY		
6	11/17/77	W. J. BARRY		
7	11/17/77	W. J. BARRY		
8	11/17/77	W. J. BARRY		
9	11/17/77	W. J. BARRY		
10	11/17/77	W. J. BARRY		

THIRD ANGLE PROJECTION

REMOVE SURFS AND BREAK SHARP CORNERS

DO NOT SCALE DIMS

MATERIAL: 701075-0

FINISH: 4

QUANTITY & VARIATION: 701075-0

DESCRIPTION: 4/C INPUT ASSY (120V/230V)

DATE: 11/17/77

DESIGNED BY: W. J. BARRY

ENG. CHECKED BY: W. J. BARRY

PROG. CHECKED BY: W. J. BARRY

PROD. CHECKED BY: W. J. BARRY

NEXT HIGH ASSY:

SIZE: D

CODE: AD

NUMBER: 701075-0-0

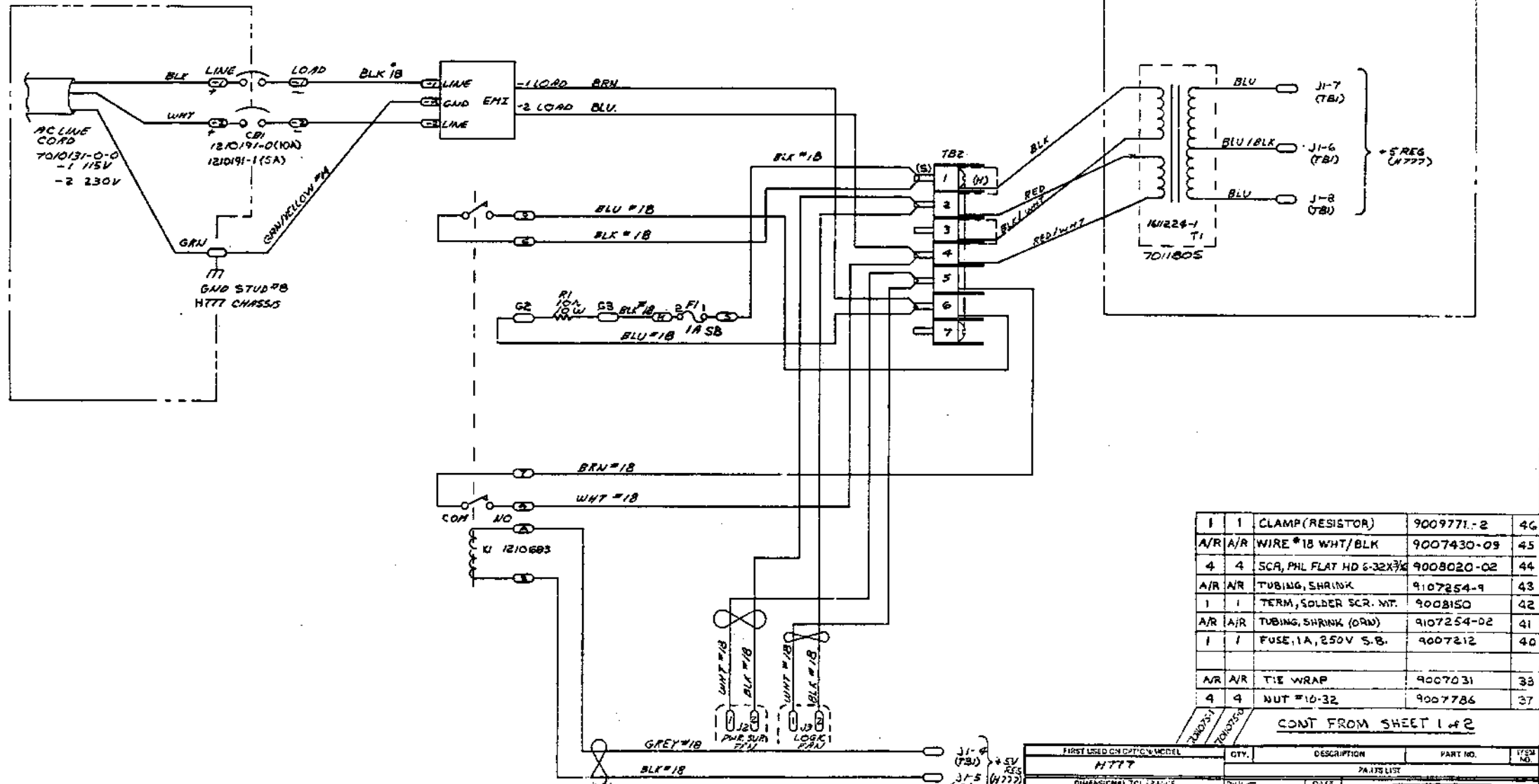
SCALE: 1/1

SHEET: 1 OF 2

DIST:

REV. C

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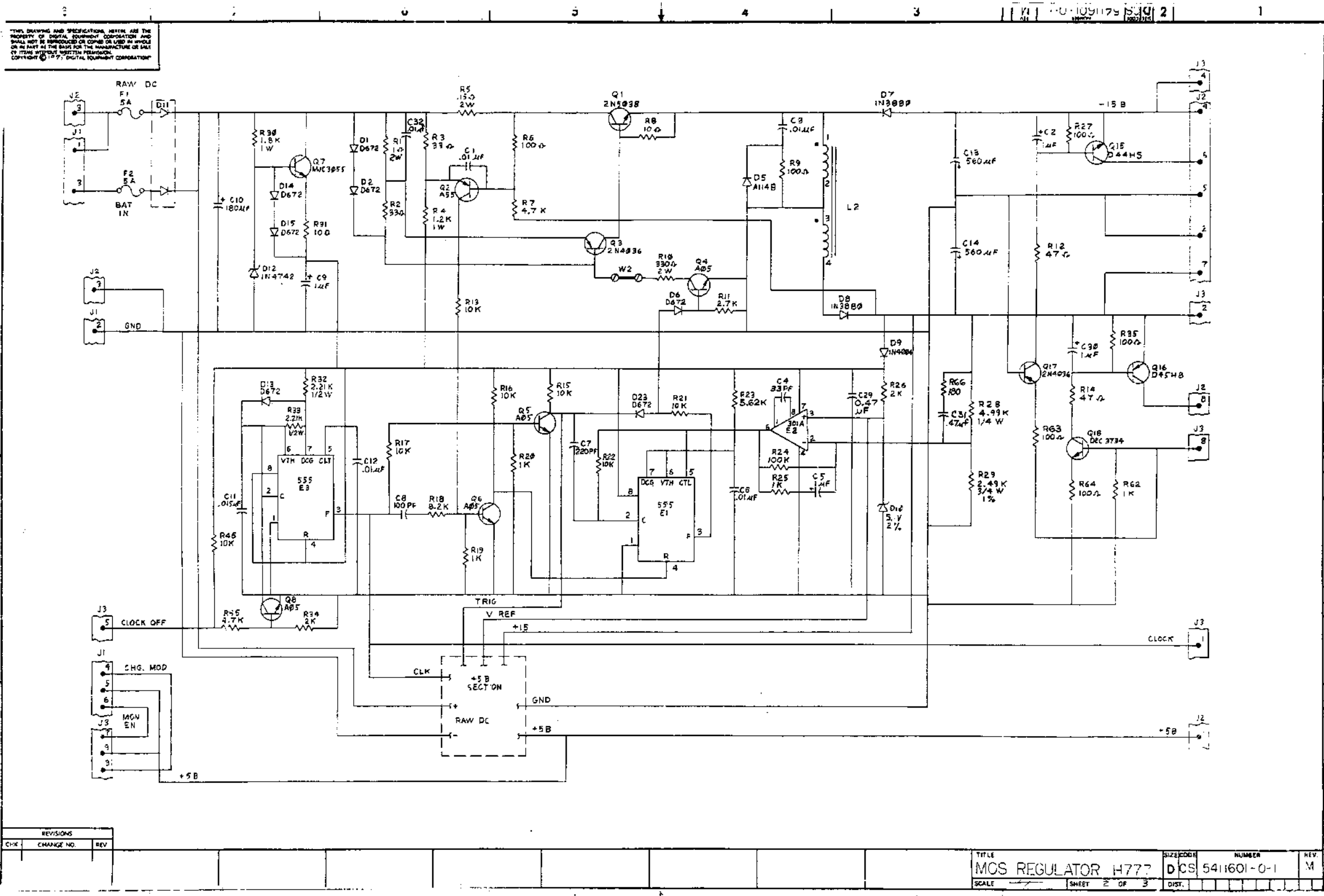
1	1	CLAMP (RESISTOR)	9009771-2	46
A/R	A/R	WIRE #18 WHT/BLK	9007430-09	45
4	4	SCW, PHL FLAT HD 6-32X3/4	9008020-02	44
A/R	A/R	TUBING, SHRINK	9107254-9	43
1	1	TERM, SOLDER SCR. MT.	9008150	42
A/R	A/R	TUBING, SHRINK (DRN)	9107254-02	41
1	1	FUSE, 1A, 250V S.B.	9007212	40
A/R	A/R	TIE WRAP	9007031	38
4	4	NUT #10-32	9007786	37

CONT FROM SHEET 1 OF 2

FIRST USED ON OPTIC MODEL		QTY.	DESCRIPTION	PART NO.	REV.
HTT					
DIMENSIONAL TOLERANCES		PARTS LIST			
DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED		DIGITAL			
UNLESS OTHERWISE SPECIFIED		TITLE			
THIRD ANGLE PROJECTION		A/C INPUT ASSY (120V/230V)			
FINISH		SCALE		REV.	
		SHEET 2 OF 2		D AD 7011075-0-0 C	

REVISIONS
CHANGE NO. REV.

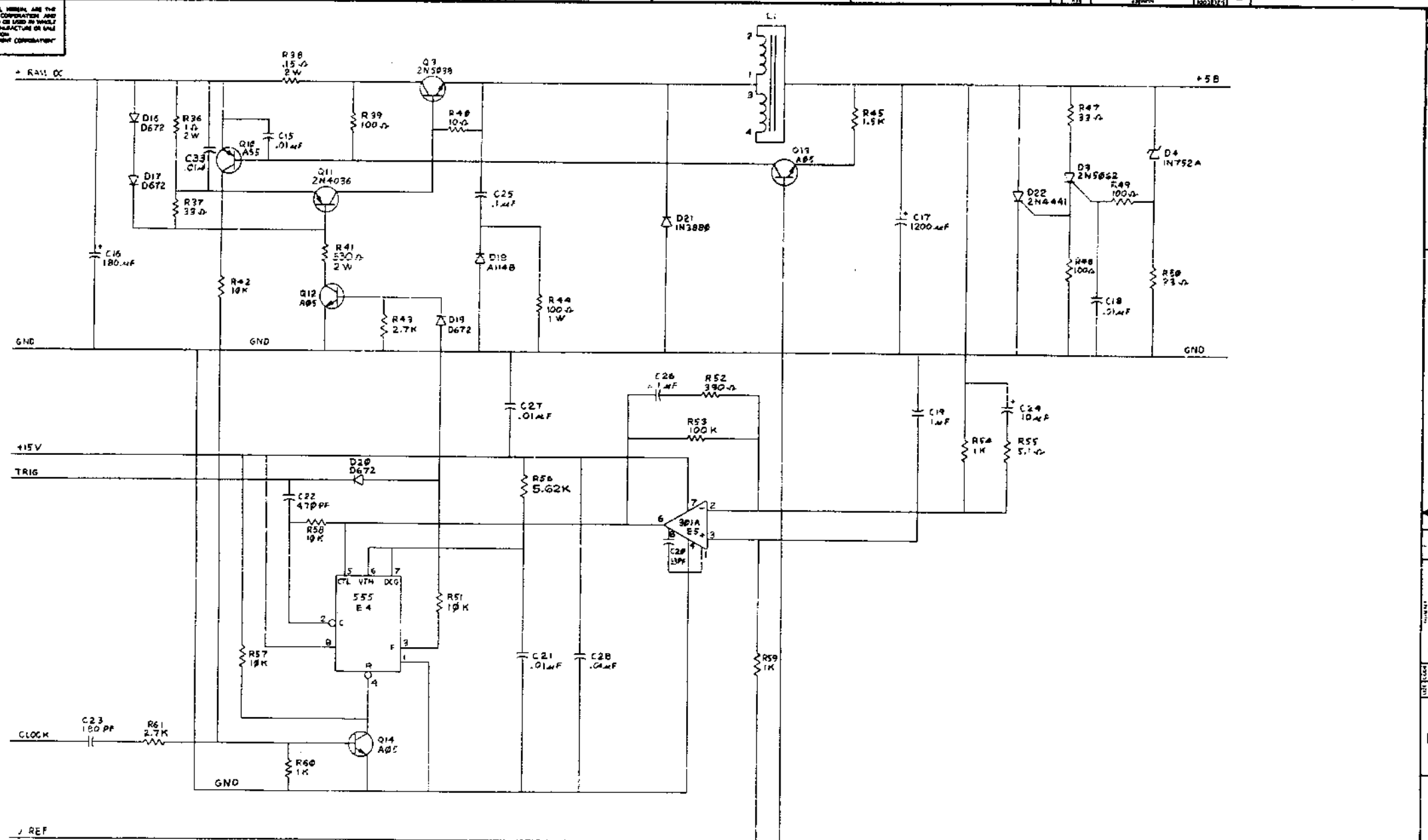
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REVISIONS		
CHK	CHANGE NO.	REV

TITLE	SIZE/EDGE	NUMBER	REV.
MOS REGULATOR H777	DCS	5411601-0-1	M
SCALE	SHEET 2 OF 3	DIST.	

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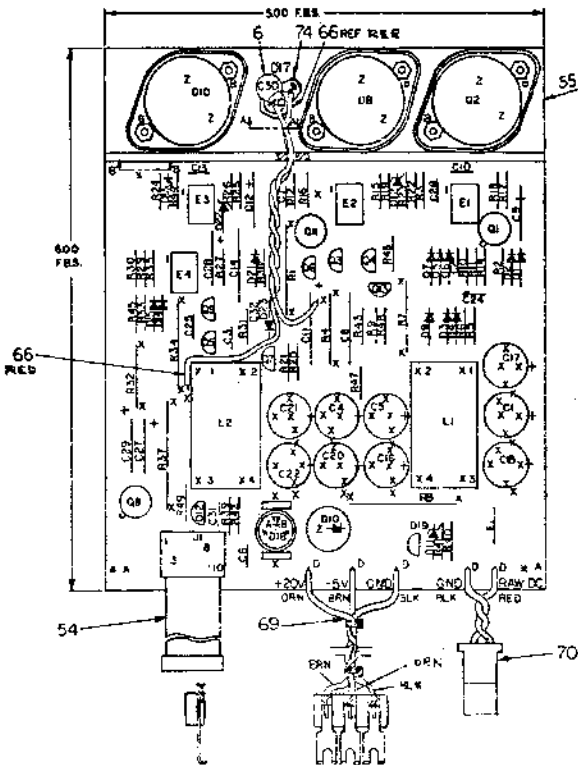
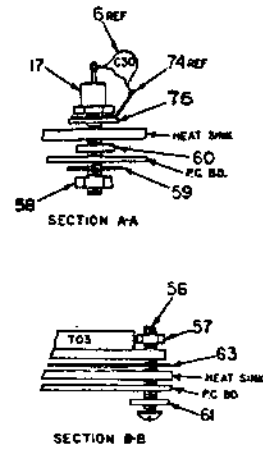


REVISIONS		
CHK	CHANGE NO.	REV

TITLE	MOSES	NUMBER	REV.
MOS REGULATOR H777	D CS 541601-0-1	M	
SCALE	SHEET	DIST	
77	5 OF 5		

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NOTES:
USE TRANSIPAD DEC# 9007201 UNDER Q1EQ8



IC TYPE	GRID	-5V

GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTED ARE STATED ABOVE

IC PIN LOCATIONS

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1	HEAT SINK	746235-0-0	55	REF
6	SCREW, #4-40 x 1/2 IN PH HD	9008513-1	56	REF
6	NUT, KEP #4-40	9008557	57	REF
1	NUT, MET #10-32	9008584	58	1
1	WASHER, FLAT	9008682	59	1
1	BUSHING, NYLON	9008440	60	6
8	WASHER, FLAT	9008172	61	3
A/R	COMPOUND, THERMAL	9008268	62	2
3	INSULATOR, TO 3	1213071-C2	63	1
2	TRANSIPAD	9007201	64	1
A/R	WIRE #18 AWG, TWISTED PAIR	9107430-02	65	2
1	C29	CAPACITOR, 2.2UF 20V	1002627	67
1	R47	RESISTOR, 200, 1/4W, 5%	1311522	68
1		HARNES (THREE WIRE)	C-2A 7012247-0-0	69
1		HARNES (TWO WIRE)	C-1A 7012346-0-0	70
1	Q12	CAPACITOR, 10UF, 20V, 10% TANT	1004813	71
1	C23	DIODE, 1N753A	1102421	72
1	C26	CAPACITOR, .47UF, 25V, 20% CER	1010275	73
1		SOLDER, TERM, SCREW MTG.	9007815	74
1		SIL PAD, 800 190 I.D.	1213071-05	75
1	C32	CAP, 1UF 50V CER.	1010274-02	76
1	D4	DIODE, 1N148	1112955-01	22
1	F1	FUSE, 15A, PICO	1210529	23
1	R46	RESISTOR, 10K, 1/4W, 5%	1302465	24
6	R9, R39, R40, R41, R43, R45	RESISTOR, 100, 1/4W, 5%	1300229	25
1	R7	RESISTOR, 100, 1W, 5%	1300232	26
3	R11, R12, R33	RESISTOR, 390, 1/4W, 5%	1300309	27
6	R8, R12, R23, R31, R17, R48	RESISTOR, 1K, 1/4W, 5%	1300385	28
3	R10, R14, R30	RESISTOR, 2.7K, 1/4W, 5%	1300426	29
4	R42, R44, R15, R21	RESISTOR, 4.7K, 1/4W, 5%	1300447	30
1	R4	RESISTOR, 1K, 1W, 5%	1300368	31
3	R16, R29, R38	RESISTOR, 10K, 1/4W, 5%	1300479	32
2	R3, R35	RESISTOR, 10, 1/4W, 5%	1301317	33
1	P45	RESISTOR, 470, 1/4W, 5%	1300316	34
1	R5	RESISTOR, 27, 1/4W, 5%	1301522	35
1	R34	RESISTOR, 330, 2W, 10%	1301961	36
1	R19	RESISTOR, 2K, 1/4W, 5%	1302386	37
2	R18, R28	RESISTOR, 100K, 1/4W, 5%	1302468	38
1	R22	RESISTOR, 2.7K, 1/4W, 1%	1304968	39
2	R1, R32	RESISTOR, 1, 2W, 5% W/W	1305428	40
2	R24, R25	RESISTOR, 1.5K, 1/4W, 5%	1300391	41
1	R21	RESISTOR, 8.2K, 1/4W, 1%	1305420	42
2	R8, R37	RESISTOR, 0.1, 5W, 3% W/W	1311603	43
1	R20	RESISTOR, 56, 1/4W, 5%	1302602	44
2	Q1, Q8	TRANSISTOR, 2N4838	1501709	45
7	Q3, Q5, Q6, Q1, Q2, Q13	TRANSISTOR, XA85	1510705	46
1	Q4	TRANSISTOR, XA55	1510706	47
1	Q10	TRANSISTOR, C32A135	1510928	48
2	Q2, Q10	TRANSISTOR, 2N5028	1510969	49
1	Q11	TRANSISTOR, 2N5433	1511686	50
2	L1, L2	INDUCTOR, 500uh	1612593	51
2	E1, E7	IC DEC 301A	1510287	52
2	E2, E4	IC DEC 555	1511844	53
1	J1	CABLE ASSY	7011412-DE	54

FIRST USED ON OPTION MODEL

ETCH BOARD REV. **D**

DATE: 1/77

DR: [Signature]

ENG: [Signature]

PROJ: [Signature]

TITLE: +20V REGULATOR/H777

SIZE CODE: DCS 5411599-0-1

REVISIONS:

REV	DESCRIPTION	DATE
1	REVISED	1/77
2	REVISED	2/77
3	REVISED	3/77
4	REVISED	4/77
5	REVISED	5/77
6	REVISED	6/77
7	REVISED	7/77
8	REVISED	8/77
9	REVISED	9/77
10	REVISED	10/77
11	REVISED	11/77
12	REVISED	12/77

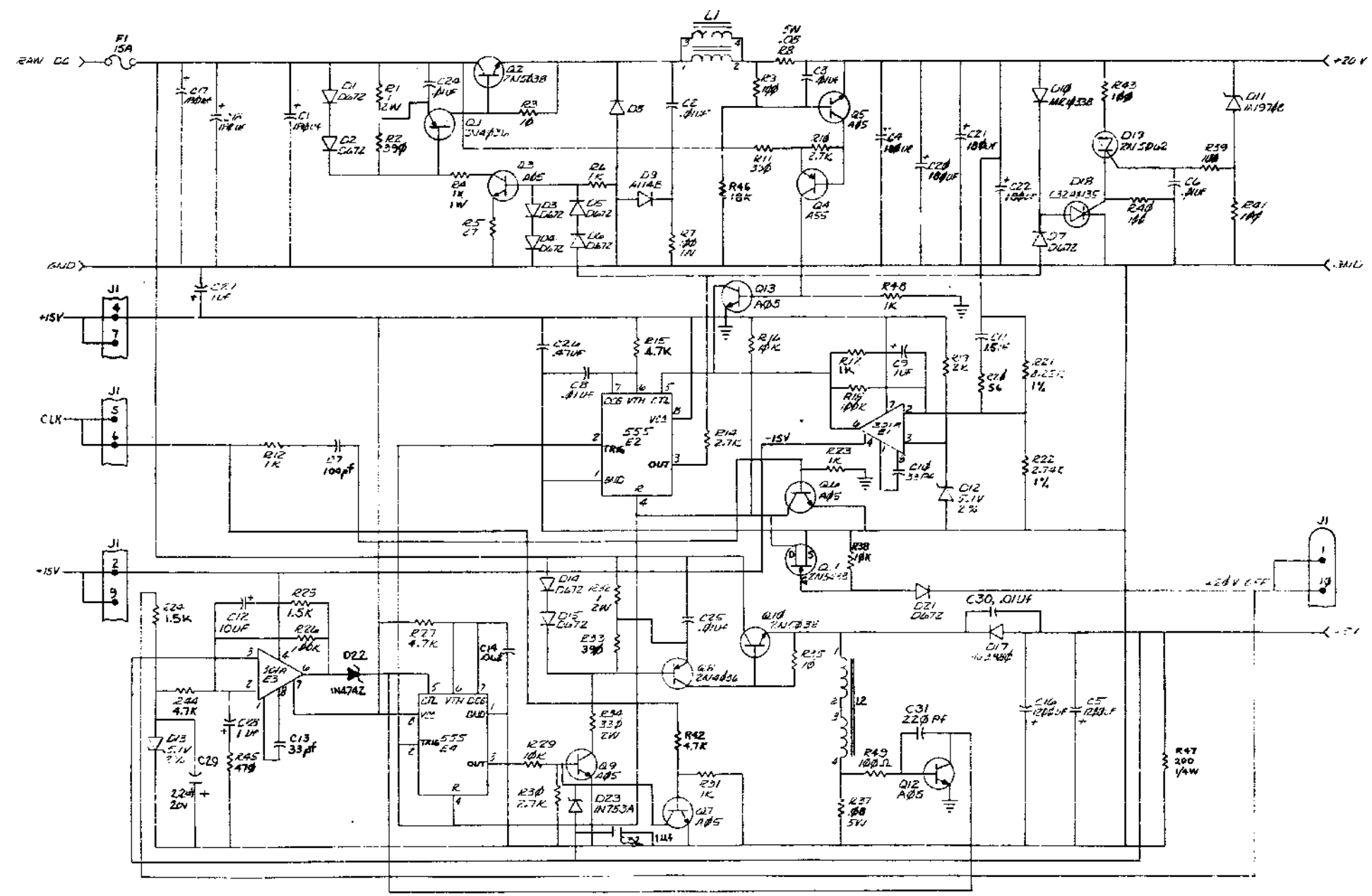
SEMICONDUCTOR CONVERSION CHART

SCALE: [Blank]

SHEET: 1 OF 2

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FIG. 2



REVISIONS		
CHK	CHANGE NO	REV

TITLE: +20V REGULATOR/H777
 NUMBER: DCS15+11599-0-
 REV: J

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			QUANTITY / VARIATION							
PARTS LIST			H777-AA	H777-AB	H777-BA	H777-BB	H777-CA	H777-CB	H777-DA	H777-DB
MADE BY	CHECKED	SECTION								
DATE	DATE	ISSUED SECT.								
ENG	PROD	ISSUED SECT.								
DATE	DATE	ISSUED SECT.								
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	H777-AA	H777-AB	H777-BA	H777-BB	H777-CA	H777-CB	H777-DA	H777-DB
1	D-IA-7011248-0-0	CHASSIS ASSY P.S.	1	1	1	1	-	-	-	-
2	9007031-05	TIE WRAP	A	RA	RA	RA	RA	RA	RA	R
3	D-AD-7011075-0-0	A/C INPUT ASSY (120V)	1	-	1	-	-	-	-	-
4	D-AD-7011075-1-0	A/C INPUT ASSY (230V)	-	1	-	1	-	-	-	-
5	9007035	GROMMET CAT.	A	RA	RA	RA	RA	RA	RA	R
6	9006563	NUT, KEPS #8 - 32	2	2	2	2	2	2	2	2
7	E-MD-7413825-0-0	COVER, POWER SUPPLY	1	1	1	1	-	-	-	-
8	D-AD-7011073-0-0	+5V REGULATOR ASSY	1	1	1	1	-	-	-	-
9	D-CS-5411601-0-1	MOS. REG. H777	1	1	1	1	1	1	1	1
10	9006021-01	SCR. PHIL HD PAN #6 - 32 x .31	4	4	2	2	3	3	1	1
11	9008509	STRAIN RELIEF	1	1	1	1	-	-	-	-
12	D-IA-7012320-0	POWER CORD (115V)	1	-	1	-	-	-	-	-
13	D-IA-7012320-1	POWER CORD (230V)	-	1	-	1	-	-	-	-
14	9006022-1	SCR. PHIL HD PAN #6-32 x .38	6	6	4	4	-	-	-	-
15	9006533	WASHER, INT. TOOTH #6	10	10	6	6	3	3	1	1
16	9009771-02	CLAMP	2	2	2	2	-	-	-	-
17	1209403-01	FAN, BOXER 115V, 50/60 HZ	1	1	1	1	1	1	1	1
18	9006020-2	SCR. PHIL FLAT HD #6 - 32 x .25	7	7	7	7	-	-	-	-
19	9009185	NUT, KEPS #6 - 32	-	-	-	2	2	2	2	2
20	9006023-1	SCR. PHIL HD PAN #6 - 32 x .44	4	4	4	4	4	4	4	4
21	9006074-3	SCR., PHIL TRUSS #10 - 32 x .62	4	4	4	4	4	4	4	4
22	9007651	WASHER, EXT. TOOTH #10	4	4	4	4	4	4	4	4
TITLE	ASSY NO.	SIZE CODE	NUMBER		REV	ECO NO				
POWER SUPPLY ASSY (H777)	E-UA-H777-0-0	A PL	H777-0-0		M	-777-10000				
SHEET 1 OF 3			DIST							

DEC FORM DEC 16 (325) 1031 N870
OPA 110

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			QUANTITY / VARIATION							
PARTS LIST			H777-AA	H777-AB	H777-BA	H777-BB	H777-CA	H777-CB	H777-DA	H777-DB
MADE BY	CHECKED	SECTION								
DATE	DATE	ISSUED SECT.								
ENG	PROD	ISSUED SECT.								
DATE	DATE	ISSUED SECT.								
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	H777-AA	H777-AB	H777-BA	H777-BB	H777-CA	H777-CB	H777-DA	H777-DB
45	9006634	WASHER INT. TOOTH LOCK #8	-	-	-	1	1	1	1	1
46	D-IA-7011248-0-0	CHASSIS ASSY P.S.	1	1	1	1	-	-	-	-
47	9006011-1	SCR PH HD PAN #4 - 40 x .38	-	-	-	2	2	2	2	2
48	9006632	WASHER INT. TOOTH LOCK #4	-	-	-	2	2	2	2	2
49	9008020-02	SCR. PHIL FLAT HD. #6-32 x .18	1	1	1	1	-	-	-	-
50	7011411-1L	CABLE, CONSOLE CONTROL	-	-	-	REF	REF	REF	REF	REF
51	9006022-03	SCR. PHIL. TRUSS #6-32 x .38	-	-	-	4	4	2	2	2
52	C-IA-7013938-1	CABLE JUMPER	-	-	-	1	1	1	1	1
53	C-IA-7013938-0	CABLE JUMPER	-	-	-	1	1	1	1	1
54	C-IA-7013939-0	CABLE GROUNDING	-	-	-	1	1	1	1	1
55	C-IA-7420323-00	AC POWER CORD W/LABLE (120V)	-	-	-	1	-	1	-	-
56	C-IA-7420323-01	AC POWER CORD W/LABLE (240V)	-	-	-	1	-	1	-	-
57	9006556	WASHER, FLAT	4	4	2	2	3	3	1	1
58	9006025-01	SCR. PAN PHIL #6-32 x 5/8	3	3	3	3	3	3	3	3
59	9006560	NUT, KEP #6-32	3	3	3	3	3	3	3	3
60	7011412-3C	CABLE ASSY	1	1	1	1	-	-	-	-
61	9006561	NUT, HEX #8-32	1	1	1	1	-	-	-	-
62	7011414-1F	CABLE, CONSOLE CONTROL	REF	REF	REF	REF	-	-	-	-
63	9009255-00	LABEL	1	1	1	1	1	1	1	1
64	3614833	LABEL, WARNING	-	-	-	1	1	1	1	1
TITLE	ASSY NO.	SIZE CODE	NUMBER		REV	ECO NO				
POWER SUPPLY ASSY (H777)	E-UA-H777-0-0	A PL	H777-0-0		M	-777-10000				
SHEET 3 OF 3			DIST							

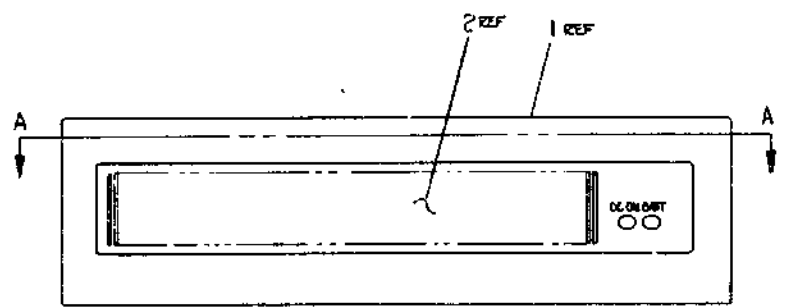
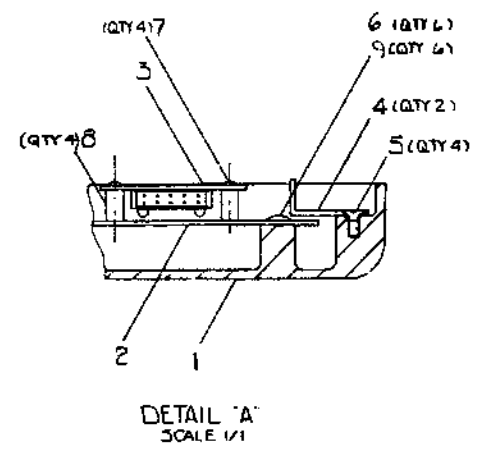
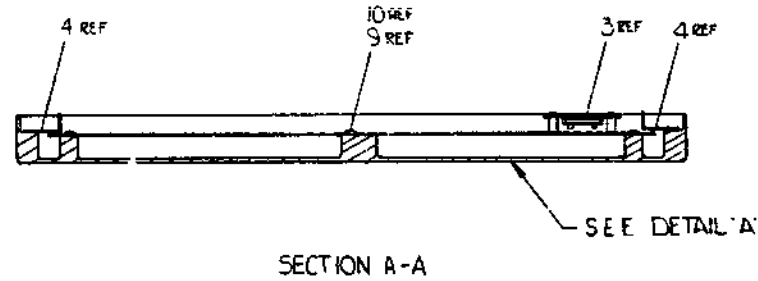
DEC FORM DEC 16 (325) 1031 N870
OPA 110

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			QUANTITY / VARIATION							
PARTS LIST			H777-AA	H777-AB	H777-BA	H777-BB	H777-CA	H777-CB	H777-DA	H777-DB
MADE BY	CHECKED	SECTION								
DATE	DATE	ISSUED SECT.								
ENG	PROD	ISSUED SECT.								
DATE	DATE	ISSUED SECT.								
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	H777-AA	H777-AB	H777-BA	H777-BB	H777-CA	H777-CB	H777-DA	H777-DB
23	C-IA-7413773-0-0	BRACKET, FAK	2	2	2	2	2	2	2	2
24	1210984-05	INS SHEET 9.0±.1 X 1.5±.1	A	RA	RA	RA	RA	RA	RA	R
25	B-DC-7414744-0-0	DECAL H777 P.S.	1	1	1	1	-	-	-	-
26	A-PS-3612680-0-0	DECAL, CHASSIS GROUND	2	2	2	2	2	2	2	2
27	C-IA-7011412-0F	CABLE, CHASSIS GROUND	1	1	1	1	1	1	1	1
28	C-IA-7011412-1H	CABLE, CONSOLE GROUND	-	-	-	1	1	1	1	1
29	D-CS-5411599-0-1	CCRE REG. H777	1	1	-	1	1	-	-	-
30	9007015	GROMMET	-	-	-	1	1	1	1	1
31	D-IA-7417407-0-0	CHASSIS P.S.	-	-	-	1	1	1	1	1
32	D-AD-7012910-0-0	A/C INPUT ASSY (120V)	-	-	-	1	-	1	-	-
33	D-AD-7012910-1-0	A/C INPUT ASSY (230V)	-	-	-	1	-	1	-	-
34	E-IA-7417018-0-0	COVER, POWER SUPPLY	-	-	-	1	1	1	1	1
35	A-PS-1213773-0-0	AC RECEPTACLE	-	-	-	1	1	1	1	1
36	A-PS-1212877-0-0	FILTER	-	-	-	1	1	1	1	1
37	D-AD-7012909-0-0	+5V REGULATOR ASSY	-	-	-	1	1	1	1	1
38	9009771-1-0	CABLE CLAMP	-	-	-	2	2	2	2	2
39	9006024-01	SCREW, PAN #6 - 32 x .50	-	-	-	1	1	1	1	1
40	9008404-2	SCR PHIL FLAT HD #6 - 32 x .31	4	4	4	4	1	1	1	1
41	9107253-02	TUBING, SHRINK (ORN)	-	-	-	A	RA	RA	RA	R
42	C-IA-7417288-0-0	WIRE A.C. CONN. HARNESS	-	-	-	REF	REF	REF	REF	REF
43	B-DC-7414744-1-0	DECAL H777 P.S.	-	-	-	1	1	1	1	1
44	9006037-1	SCR. PHIL PAN HD #8 - 32 x .38	-	-	-	1	1	1	1	1
TITLE	ASSY NO.	SIZE CODE	NUMBER		REV	ECO NO				
POWER SUPPLY ASSY (H777)	E-UA-H777-0-0	A PL	H777-0-0		M	-777-10000				
SHEET 2 OF 3			DIST							

DEC FORM DEC 16 (325) 1031 N870
OPA 110

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NOTES:
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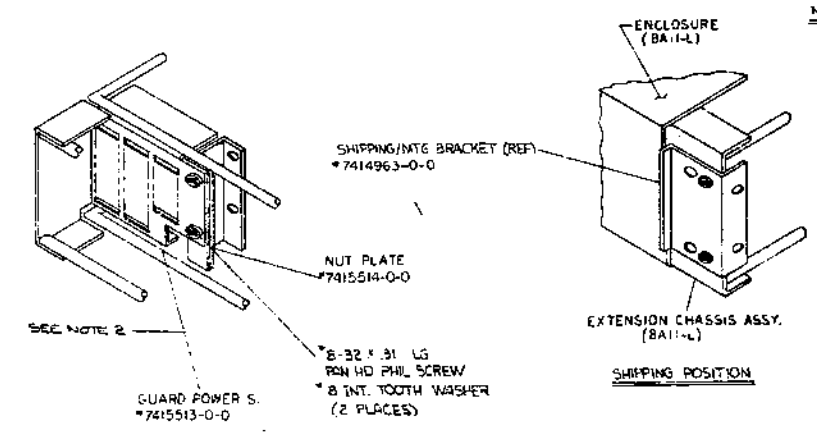
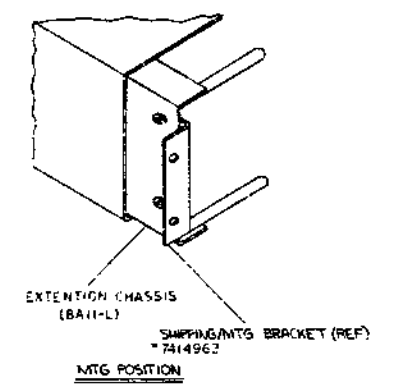
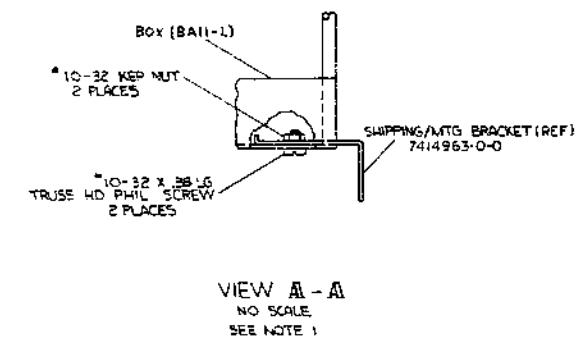
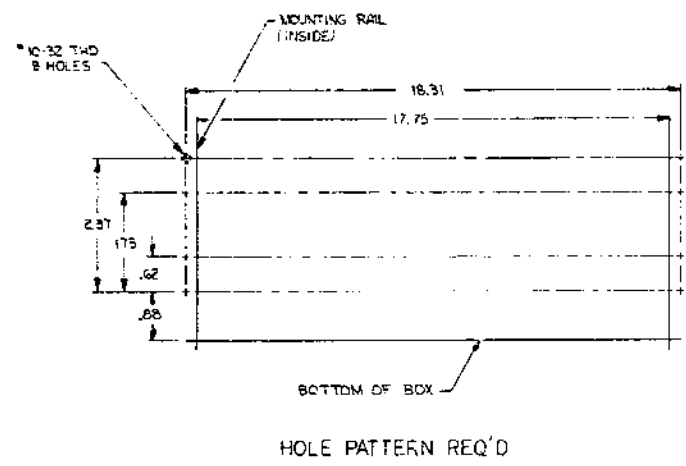
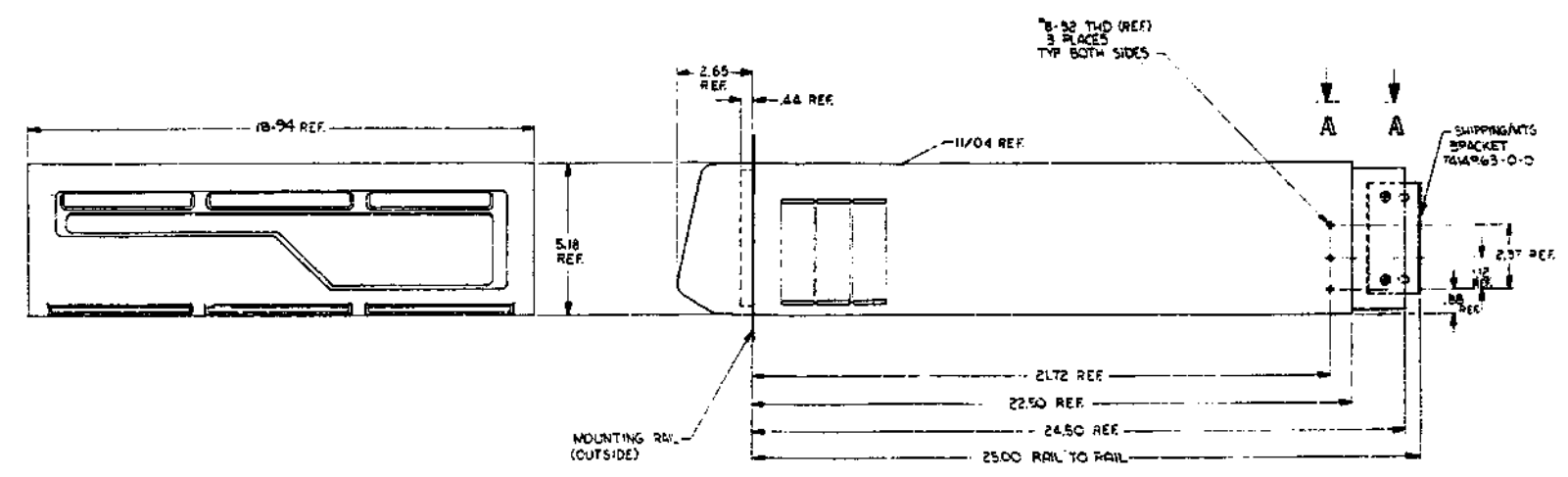
QTY	DESCRIPTION	QTY	DESCRIPTION	QTY	DESCRIPTION
6	SCREW, PAN HD, PHIL #8-32 X .31 LG	9006036-1	9		
4	SPACER, .25 DIA X .32 X .44 LG	9006035	4		
4	SCREW, PAN HD, PHIL #8-32 X .19 LG	9006020-1	7		
6	WASHER, INT. TOOTH #8	9006034	6		
4	SCR FLAT HD PHIL #8-32 X .25	9006033-02	5		
2	BRACKET SUPPORT FILTER	CARD-344962-1-0	4		
1	CONT. EYE BOX (BALL-1)	D-14-5411501-0-0	3		
1	PANEL EXPANDER BOX	8-14-7017321-0-0	2		
1	BEZEL	8-14-7416747-0-0	1		

THIRD ANGLE PROJECTION		FIRST USED ON	
REMOVE BURRS AND BREAK SHARP CORNERS		1104	
SEE PARTS LIST		TITLE	
SCALE 1/1		CONSOLE ASSY EXPANDER BOX	
SHEET 1 OF 1		D ADI 7012540-0-0	

D ADI 7012540-0-0 A

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NOTES:
 1. SHOWN IN MTS BRACKET POSITION ALSO SHOWN TO-METRIC OF BKT IN MTS POSITION. SHIPPING POSITION.
 2. BECAUSE OF UL REQUIREMENTS THE REAR OF THE POWER SUPPLY MUST BE COVERED. THE GUARD SHOWN TO BE INSTALLED ON UNITS THAT DON'T HAVE THE NEW PWP SUPPLY WITH COATED ENDS. THERE SHOULD BE APPROX. 200 UNITS THAT WILL REQUIRE THIS RETROFIT.



REV	DESCRIPTION	DATE	BY	CHKD	APP'D
1	ISSUED FOR PRODUCTION				
2	REVISED TO SHOW DIMENSIONS				
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99	REVISED TO SHOW DIMENSIONS				
100	REVISED TO SHOW DIMENSIONS				

DRAWING DIRECTORY

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CUSTOMER PRINT SET INDEX

~~THIS IS PRINT SET~~

SEQUENCE

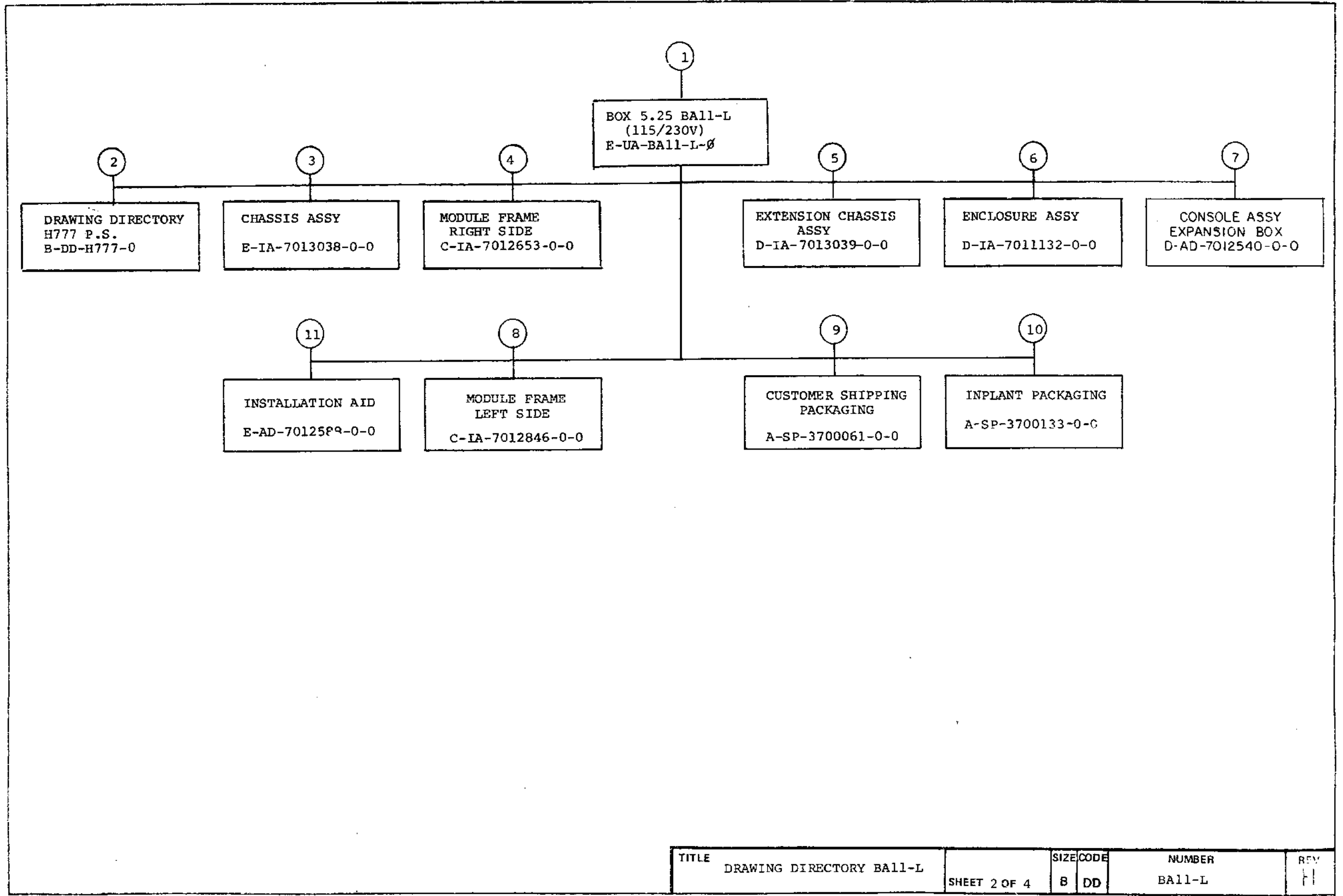
SEQUENCE

NOTE:
FOR FIELD MAINTENANCE
PRINT SET REFER TO
B-TC-BALL-L-I

UNIT VARIATIONS		PRINT SET
VAR	TITLE	
BAll-LA	5.25 BOX, H777-AA P.S. 115V	
BAll-LB	5.25 BOX, H777-AB P.S. 230V	
BAll-LC	5.25 BOX, H777-BA P.S. 115V	
BAll-LD	5.25 BOX, H777-BB P.S. 230V	
BAll-LE	5.25 EXPANDER BOX, H777-CA P.S. 115V	
BAll-LF	5.25 EXPANDER BOX, H777-CB P.S. 230V	
BAll-LH	5.25 EXPANDER BOX, H777-DA P.S. 115V	
BAll-LJ	5.25 EXPANDER BOX, H777-DB P.S. 230V	
BAll-LK	5.25 BOX & H777CA 115V CORE & MOS	
BAll-LL	5.25 BOX & H777CB 230V CORE & MOS	
BAll-LM	5.25 BOX & H777DA 115V MOS ONLY	
BAll-LN	5.25 BOX & H777DB 230V MOS ONLY	

REVISIONS								USED ON OPTION/MODEL		DRN.	DATE	TITLE													
										G. MARINI	9/3/75	DRAWING DIRECTORY BALL-L													
4-76	BAIL-L-4	A						11/84		CHK'D.	DATE						DRAWING DIRECTORY BALL-L								
10-76	BAIL-6	B					11/34		D. HEALY	9/30/75	DRAWING DIRECTORY BALL-L														
1-77	BAIL-7	C							PROJ ENG.	DATE												DRAWING DIRECTORY BALL-L			
3-77	BAIL-8	D							R Barry	10-22-75						DRAWING DIRECTORY BALL-L									
4-77	BAIL-9	E							PROD.	DATE											SIZE				
5-77	BAIL-L-10	F							RK Peter	10/22/75	B	DD	BALL-L	H											
7-77	BAIL-11	H																							
								CHEET 1 OF 4				DIST													

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TITLE	DRAWING DIRECTORY BALL-L	SIZE	CODE	NUMBER	REV
	SHEET 2 OF 4	B	DD	BALL-L	11

MECHANICAL (SECTION 2)					MECHANICAL (SECTION 2)						
FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO. FILE DATE	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO. FILE DATE
5	D-IA-7013039-0-0		1	EXTENSION CHASSIS ASSY		10	A-SP-3700133-0-0			PACKAGING IN PLANT	
	B-MD-7414086-0-0		1	ROD EXTENSION FRAME			A-PS-9905271-0-0			LAMINATED BUILDUPS SADDLE	
	C-MD-7417220-0-0			PLATE END RIGHT HAND			A-PS-9905184-0-0			BEZEL PROTECTOR	
	C-MD-7417239-0-0			PLATE END LEFT HAND			A-PS-9905418-0-0			REGULAR SLOTTED CARTON	
							A-PS-9905129-7			POLY BAG	
							A-PS-9905729-0-0			3 IN. WIDE GLASFLEX TAPE	
6	D-IA-7011132-0-0		1	ENCLOSURE ASSY							
	D-IA-7013868-0-0		1	ENCLOSURE BOTTOM							
	D-MD-7413869-0-0		1	ENCLOSURE TOP		11	E-AD-7012588-0-0			INSTALLATION AID	
7	D-AD-7412540-0-0		1	CONSOLE ASSY, EXPANSION BOX							
8	C-IA-7012846-0-0			MODULE FRAME LEFT SIDE							
	C-MD-7414084-0-0			BRKT. EJECTOR L.H.							
	C-MD-7416517-0-0			BRKT. CARD GUIDE							
	C-MD-7414082-0-0			BRKT. BACKPLANE L.H.							
	C-MD-7416516-0-0			ROD							
9	A-SP-3700061-0-0			PACKAGING INSTRUCTIONS CUST.							
	A-PS-9905647-0-0			FULL-TELESCOPE CAP							
	A-PS-9905648-0-0			FOAM PAD							
	A-PS-9905646-0-0			FOAM WITH CORRUGATED SIDEWALL ASSEMBLY							
	A-PS-9905734-0-0			STRAPPING (STEEL OR PLASTIC)							

CUSTOMER PRINT SET CODES
 Y = PRINT OF DOCUMENT INCLUDED IN PRINT SET
 C = INCLUDE ALL PRINTS INDICATED ON DOCUMENT
 S = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED

TITLE: DRAWING DIRECTORY BALL-L
 SHEET 4 OF 4
 SIZE CODE: 8 DD
 NUMBER: BALL-L
 REV: H

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DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY <i>[Signature]</i>	CHECKED	SECTION
DATE <i>7/2/77</i>	DATE	
ENG	PROD	ISSUED SECT.
DATE	DATE	

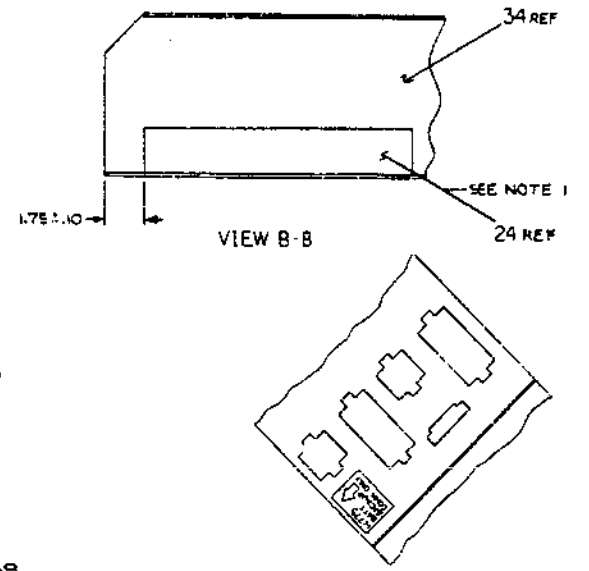
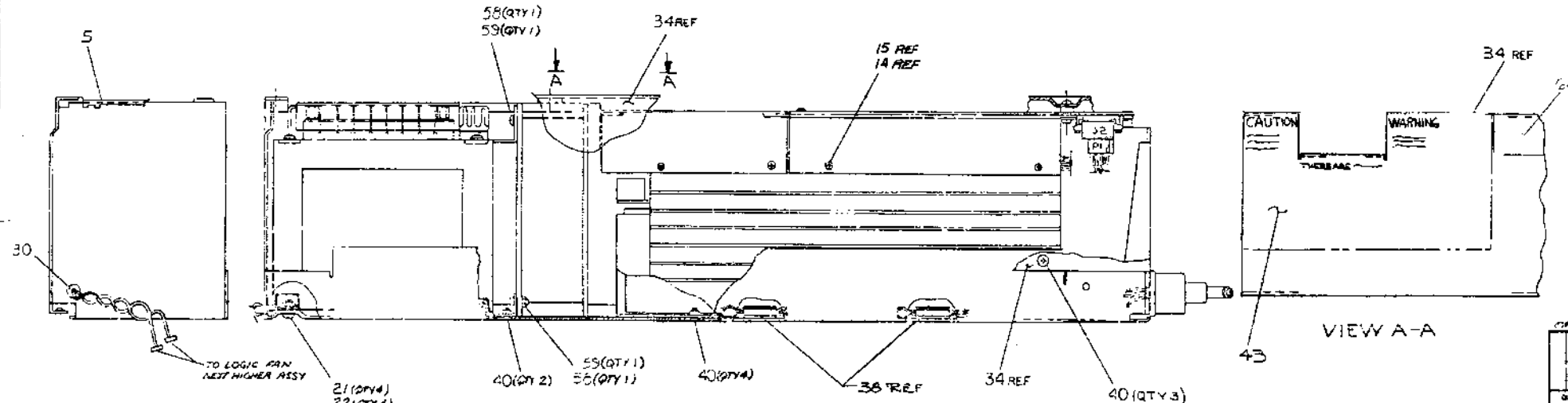
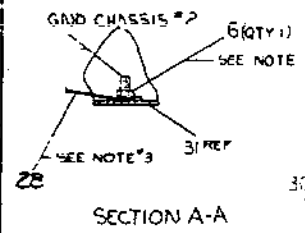
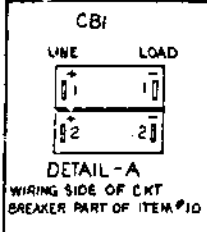
QUANTITY / VARIATION

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	BAILL-LE	BAILL-LF	BAILL-LH	BAILL-LJ	ALL OTHER	VARIATIONS GET ONLY ITEMS 1+2						
1	EK-BAILL-MM-PRE	MAINTANCE MANUL	-	-	-	-	-							
2	MPOOOI8	PRINT SET BAILL-L	-	-	-	-	-							
3	D-UA-BCIA-10-0	CABLE UNIBUS 10FT	-	-	-	-	-							

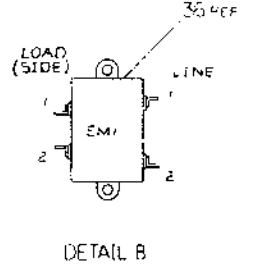
TITLE	ASSY NO.	SIZE CODE	NUMBER	REV.	ECO NO.
SHIPPING LIST	E-UA-BAILL-L-0	A PL	BAILL-L-4		
	SHEET 1 OF 1	DIST.			

DEC FORM DEC 16-(325)-1031-N870
DA 116

WIRE TABLE										LEGEND	
ITEM NO	DESCRIPTION	FROM	TO	REMARKS	PART NO	VARIATION					
53	14	BLU	ITEM 35	SLOT 24	EMI LINE - 2	AC LINE CORD					
52	14	BRN	ITEM 35	SLOT 24	EMI LINE - 2	AC LINE CORD					
54	14	GRN/YEL	ITEM 35	SLOT 31	DC GND CHASSIS	AC LINE CORD					
4	14	BLU	TI-5	8	J1-7 (T82)	SEC VOLTAGE					
3	14	TRP/L	TR-4	8	J1-8 (T82)	TO RELAY CHL					
2	14	TRP	TR-7	8	J1-8 (T82)	TO RELAY CHL					
1	14	TRP	TR-7	8	J1-8 (T82)	TO RELAY CHL					
18	14	WHT	FAN-1	4	FAN-1	POWER SUPPLY					
17	14	TRP	BLK	4	FAN-1	FAN POWER					
28	14	GRN/YEL	GND CHASSIS #2	6		CONSOLE GND					
27	14	GRN/YEL	GND CHASSIS #1	6		CHASSIS GND					
14	14	BLK	ITEM #29	8	J1-3 (B02)	FROM CORE REG					
14	14	ORN	ITEM #29	8	J1-2 (B02)	FROM CORE REG					
14	14	BRN	ITEM #29	8	J1-1 (B02)	FROM CORE REG					
42	14	BRN	EMI-2 LOAD	41	CB1-2 LINE						
42	14	BLU	EMI-1 LOAD	41	CB1-1 LINE						



- NOTES:
- 1 APPLY SELF STICK MS SHEET (ITEM 2A) TO UNDER SIDE OF POWER SUPPLY COVER IN AREA OF HEAT SINKS (CORE & MOS REGS).
 - 2 APPLY SELF STICK ITEM 26 BESIDE THIS GND STUD.
 - 3 ITEM 28 IS A GND CABLE TO GND THE FRONT PANEL CASTINGS FOR MOS AND CORE REGULATORS.
 - 4 CABLE PART OF ITEM #3.
 - 5 CABLE & WIRES ARE PART OF ITEM #29.
 - 6 ITEM #6 (METRIC NUT M4) CAN BE USED AS A REPLACEMENT IN FIELD IF NECESSARY.
 - 7 INSTALL ITEM #4 OVER SOLDER ENDS PRIOR TO SOLDERING.
 - 8 POSITION ITEM #64 PARALLEL WITH AND THE TIP EDGE ON THE SAME PLANE AS THE TOP EDGE OF ITEM #43.



CAUTION
UNIT ASSEMBLY FOR OPTIONS: CA, CB, DA, AND DB ONLY.
SEE SHEET 1 FOR OPTIONS AA, AB, BA, AND BB.

OFF SHEET PARTS LIST SEE SHEET 1 FOR PARTS LIST

ITEM NO	DESCRIPTION	QTY	REMARKS
1	POWER SUPPLY ASSY (1:777)	1	

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			QUANTITY / VARIATION							
PARTS LIST			H777-AA	H777-AB	H777-BA	H777-BB	H777-CA	H777-CB	H777-DA	H777-DB
MADE BY	CHECKED	SECTION								
DATE	DATE	ISSUED SECT.								
ENG	PROD	ISSUED SECT.								
DATE	DATE	ISSUED SECT.								
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	H777-AA	H777-AB	H777-BA	H777-BB	H777-CA	H777-CB	H777-DA	H777-DB
1	D-IA-7011248-0-0	CHASSIS ASSY P.S.	1	1	1	1	-	-	-	-
2	9007031-05	TIE WRAP	A	RA	RA	RA	RA	RA	RA	R
3	D-AD-7011075-0-0	A/C INPUT ASSY (120V)	1	-	1	-	-	-	-	-
4	D-AD-7011075-1-0	A/C INPUT ASSY (230V)	-	1	-	-	-	-	-	-
5	9007035	GROMMET CAT.	A	RA	RA	RA	RA	RA	RA	R
6	9006563	NUT, KEPS #8 - 32	2	2	2	2	2	2	2	2
7	E-MD-7413825-0-0	COVER, POWER SUPPLY	1	1	1	1	-	-	-	-
8	D-AD-7011073-0-0	+5V REGULATOR ASSY	1	1	1	1	-	-	-	-
9	D-CS-5411601-0-1	MOS. REG. H777	1	1	1	1	1	1	1	1
10	9006021-01	SCR. PHIL HD PAN #6 - 32 x .31	4	4	2	2	3	3	1	1
11	9008509	STRAIN RELIEF	1	1	1	1	-	-	-	-
12	D-IA-7012320-0	POWER CORD (115V)	1	-	1	-	-	-	-	-
13	D-IA-7012320-1	POWER CORD (230V)	-	1	-	1	-	-	-	-
14	9006022-1	SCR. PHIL HD PAN #6-32 x .38	6	6	4	4	-	-	-	-
15	9006633	WASHER, INT. TOOTH #6	10	10	6	6	3	3	1	1
16	9009771-02	CLAMP	2	2	2	2	-	-	-	-
17	1209403-01	PAN, BOXER 115V, 50/50 H2	1	1	1	1	1	1	1	1
18	9006020-2	SCR. PHIL FLAT HD #6 - 32 x .25	7	7	7	7	-	-	-	-
19	9008185	NUT, KEPS #6 - 32	-	-	-	2	2	2	2	2
20	9006023-1	SCR. PHIL HD PAN #6 - 32	4	4	4	4	4	4	4	4
21	9006074-3	SCR., PHIL TRUSS #10 - 32 x .62	4	4	4	4	4	4	4	4
22	9007651	WASHER, EXT. TOOTH #10	4	4	4	4	4	4	4	4
TITLE	ASSY NO.	SIZE CODE	NUMBER							
POWER SUPPLY ASSY (H777)	E-UA-H777-0-0	A PL	H777-0-0							
	SHEET 1 OF 3	DIST								

DEC FORM DEC 16 (325) 1031-NR70
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DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			QUANTITY / VARIATION							
PARTS LIST			H777-AA	H777-AB	H777-BA	H777-BB	H777-CA	H777-CB	H777-DA	H777-DB
MADE BY	CHECKED	SECTION								
DATE	DATE	ISSUED SECT.								
ENG	PROD	ISSUED SECT.								
DATE	DATE	ISSUED SECT.								
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	H777-AA	H777-AB	H777-BA	H777-BB	H777-CA	H777-CB	H777-DA	H777-DB
45	9006634	WASHER INT. TOOTH LOCK #8	-	-	-	1	1	1	1	
46	D-IA-7011248-0-0	CHASSIS ASSY P.S.	1	1	1	1	-	-	-	-
47	9006011-1	SCR PH HD PAN #4 - 40 x .38	-	-	-	2	2	2	2	
48	9006632	WASHER INT. TOOTH LOCK #4	-	-	-	2	2	2	2	
49	9008020-02	SCR. PHIL FLAT HD. #6-32 x .18	1	1	1	1	-	-	-	
50	7011411-1L	CABLE, CONSOLE CONTROL	-	-	-	REF	REF	REF	REF	
51	9006022-03	SCR. PHIL. TRUSS #6-32 x .38	-	-	-	4	4	2	2	
52	C-IA-7013938-1	CABLE JUMPER	-	-	-	1	1	1	1	
53	C-IA-7013938-0	CABLE JUMPER	-	-	-	1	1	1	1	
54	C-IA-7013939-0	CABLE GROUNDING	-	-	-	1	1	1	1	
55	C-IA-7420323-00	AC POWER CORD W/LABLE (120V)	-	-	-	1	-	1	-	
56	C-IA-7420323-01	AC POWER CORD W/LABLE (240V)	-	-	-	1	-	1	-	
57	9006656	WASHER, FLAT	4	4	2	2	3	3	1	1
58	9006025-01	SCR. PAN PHIL #6-32 x 5/8	3	3	3	3	3	3	3	
59	9006560	NUT, KEP #6-32	3	3	3	3	3	3	3	
60	7011412-3C	CABLE ASSY	1	1	1	1	-	-	-	
61	9006561	NUT, HEX #8-32	1	1	1	1	-	-	-	
62	7011414-1F	CABLE, CONSOLE CONTROL	REF	REF	REF	REF	-	-	-	
63	9009255-00	LABEL	1	1	1	1	1	1	1	
64	3614833	LABEL, WARNING	-	-	-	1	1	1	1	
TITLE	ASSY NO.	SIZE CODE	NUMBER							
POWER SUPPLY ASSY (H777)	E-UA-H777-0-0	A PL	H777-0-0							
	SHEET 3 OF 3	DIST								

DEC FORM DEC 16 (325) 1031-NR70
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DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			QUANTITY / VARIATION							
PARTS LIST			H777-AA	H777-AB	H777-BA	H777-BB	H777-CA	H777-CB	H777-DA	H777-DB
MADE BY	CHECKED	SECTION								
DATE	DATE	ISSUED SECT.								
ENG	PROD	ISSUED SECT.								
DATE	DATE	ISSUED SECT.								
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	H777-AA	H777-AB	H777-BA	H777-BB	H777-CA	H777-CB	H777-DA	H777-DB
23	C-IA-7413773-0-0	BRACKET, PAN	2	2	2	2	2	2	2	
24	1210984-05	INS SHEET 7.0 ± .1 X 1.5 ± .1	A	RA	RA	RA	RA	RA	RA	R
25	B-DC-7414744-0-0	DECAL H777 P.S.	1	1	1	1	-	-	-	
26	A-PS-3612680-0-0	DECAL, CHASSIS GROUND	2	2	2	2	2	2	2	
27	C-IA-7011412-0F	CABLE, CHASSIS GROUND	1	1	1	1	1	1	1	
28	C-IA-7011412-1H	CABLE, CONSOLE GROUND	-	-	-	1	1	1	1	
29	D-CS-5411599-0-1	CCRE REG. H777	1	1	-	-	1	1	-	
30	9007015	GROMMET	-	-	-	1	1	1	1	
31	D-IA-7417407-0-0	CHASSIS P.S.	-	-	-	1	1	1	1	
32	D-AD-7012910-0-0	A/C INPUT ASSY (120V)	-	-	-	1	-	1	-	
33	D-AD-7012910-1-0	A/C INPUT ASSY (230V)	-	-	-	1	-	1	-	
34	E-IA-7417018-0-0	COVER, POWER SUPPLY	-	-	-	1	1	1	1	
35	A-PS-1213773-0-0	AC RECEPTACLE	-	-	-	1	1	1	1	
36	A-PS-1212877-0-0	FILTER	-	-	-	1	1	1	1	
37	D-AD-7012909-0-0	+5V REGULATOR ASSY	-	-	-	1	1	1	1	
38	9009771-1-0	CABLE CLAMP	-	-	-	2	2	2	2	
39	9006024-01	SCREW, PAN #6 - 32 x .50	-	-	-	1	1	1	1	
40	9008104-2	SCR PHIL FLAT HD #6 - 32 x .31	4	4	4	4	1	1	1	
41	9107253-02	TUBING, SHRINK (ORN)	-	-	-	A	RA	RA	RA	R
42	C-IA-7417288-0-0	WIRE A.C. COUN. HARNESS	-	-	-	REF	REF	REF	REF	
43	B-DC-7414744-1-0	DECAL H777 P.S.	-	-	-	1	1	1	1	
44	9006037-1	SCR. PHIL PAN HD #4 - 32 x .38	-	-	-	1	1	1	1	
TITLE	ASSY NO.	SIZE CODE	NUMBER							
POWER SUPPLY ASSY (H777)	E-UA-H777-0-0	A PL	H777-0-0							
	SHEET 2 OF 3	DIST								

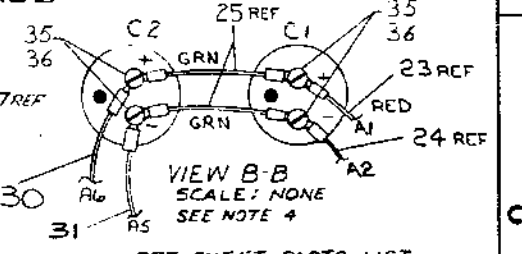
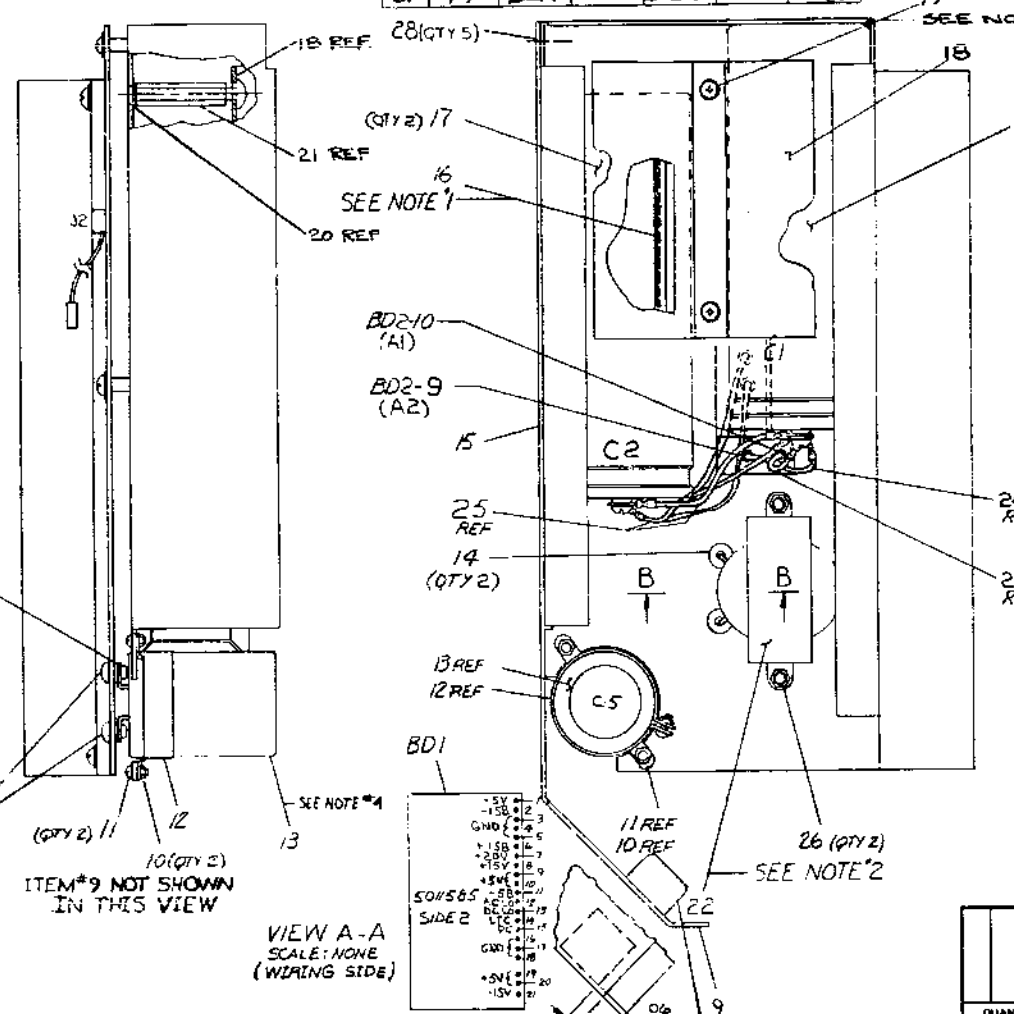
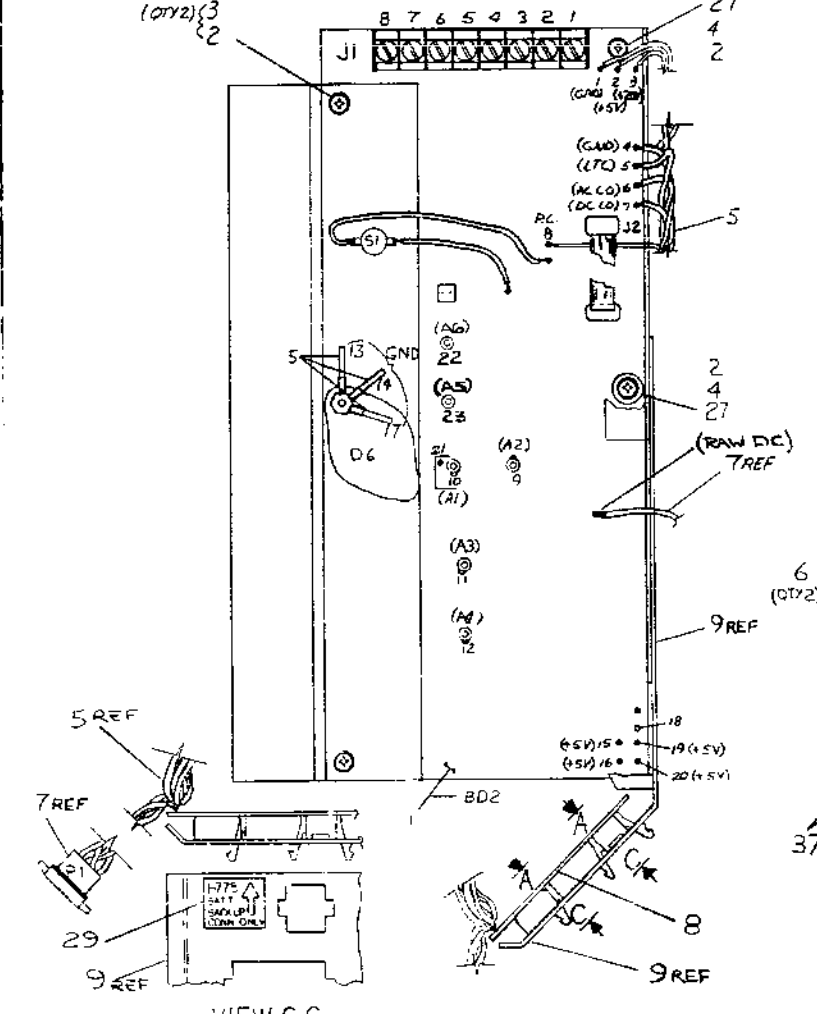
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ORA 110

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WIRE CHART

ITEM NO	DESCRIPTION	FROM		TO		ITEM NO	DESCRIPTION	FROM		TO		
		POINT NO	CONN	POINT NO	CONN			POINT NO	CONN	POINT NO	CONN	
20	WHT	1	BD2-8	18	BD1-15	14	BLK	28	BD2-13	11	BD1-4	
14	BRN	2	2	9	1	18	GRY	4	BD1-8	9	-	
14	BLK	3	1	12	5	18	WHT	5	BD1-6	10	-	
14	ORN	4	3	13	7	14	RED	6	BD2-21	13	-	
20	BRN	5	5	19	14	18	GRN	7	BD1-2	12	-	
20	BLK	6	4	20	14	14	RED	24	24	19	25	
20	YEL	7	6	16	12	14	RED	27	BD2-20	23	BD1-20	
20	VIO	8	7	17	13	18	BLU	1	BD1-21	11	-	
14	BLK	30	BD2-17	10	BD1-3	14	BLK	2	BD1-18	8	-	
30	14	RED	-	BD2-22	-	18	RED	3	BD1-11	14	-	
30	14	RED	-	BD2-22	-	22	-	BARE	-	-	BD2-11	
30	14	RED	-	BD2-22	-	23	-	BARE	-	-	BD2-12	
30	14	RED	-	BD2-22	-	31	14	BLK	-	BD2-23	-	CD(-)

- NOTES:**
- USE ITEM #16 (GROMMET) TO COVER RAW METAL EDGES UNDER CAPACITORS.
 - LEADS FROM ITEMS #22, 23 & 24 ARE TO BE CUT FLUSH WITH TOP OF CLAMPS ON ITEM #1. A1, A2, A3 & A4
 - * ASTERISK INDICATES THAT THESE CONN. ALREADY HAVE BEEN MADE ON PLUG P1 ON WAREHOUSE D-1A-701560-0-0 THEY ARE SHOWN FOR REF ONLY.
 - ITEMS #17 & #13 ARE TO HAVE THEIR ELECTRICAL CONNECTIONS TORQUED TO 12 IN-LBS (-) & 10 IN-LBS.
 - BEING SCREW TO A NO SLACK POSITION THEN TIGHTEN WITH 1/2 TO 3/4 TURN ONLY.
 - ITEMS #33 & #34 ARE NOT SHOWN.



OFF SHEET PARTS LIST
SEE A-PL-7012909-0-0

DESCRIPTION	ENG. PART NO.	ITEM NO.
BUMPER	9009624	32
JUMPER, BLK	5-1A-701802-0-0	3
JUMPER, RED	5-1A-701801-0-0	30
DECAL, LATT. BACK	1-DC-741691-00	29
SCR. FLAT HD #6-32 X .25	9006020-2	28
WASHER NYLON #8	9006108	27
NUT REFS #8-32	9006568	26
JUMPER (GRN)	5-1A-701800-0-0	25
JUMPER (BLK)	5-1A-701802-0-0	24
JUMPER (RED)	5-1A-701801-0-0	23
CHOKE	1A12584	22
SPACER HEX #8 X 1-25	9009603	21
WASHER INT TOOTH LOCK #8	9006834	20
SCR PHIL HD PAN #6-32 X .384	9009236-1	19
CLAMP CAPACITOR	C-MD-7417025-00	18
CAPACITOR 24 KUF 50V	7010702	17
GROMMET CATERPILLAR	9007025	16
BRACKET CAPACITOR	E-2A-7413743-1-0	15
GROMMET RUBBER	9007071	14
CAPACITOR 3700UF/16.0V(5V)	1012740-00	13
CLAMP CAPACITOR	9009052	12
SCR PHIL PAN #6-32 X .251	9006020-1	11
NUT REFS #6-32	9008185	10
PLATE, CAPACITOR CONV SIDE	D-1A-7417007-0-0	9
BOARD, PWR DISTR. H777	DCS-SH1584-1	8
WASHER INT TOOTH LOCK #6	9006660	7
WASHER INT TOOTH LOCK #6	9006660	6
WASHER INT TOOTH LOCK #6	9006660	5
SCR PHIL HD PAN #6-32 X .314	9006021-1	4
SCR PHIL HD PAN #6-32 X .504	9006024-1	3
WASHER INT TOOTH LOCK #6	9006663	2
H777+5V REG. REV. (L.P.)	DCS-SH1584-1	1

REV.	DATE	BY	CHKD	DESCRIPTION
1	11-20-70	W.M.	W.M.	ISSUED FOR PRODUCTION
2	12-14-70	W.M.	W.M.	REVISED TO ADD PART #9
3	1-13-71	W.M.	W.M.	REVISED TO ADD PART #10
4	1-13-71	W.M.	W.M.	REVISED TO ADD PART #11
5	1-13-71	W.M.	W.M.	REVISED TO ADD PART #12
6	1-13-71	W.M.	W.M.	REVISED TO ADD PART #13
7	1-13-71	W.M.	W.M.	REVISED TO ADD PART #14
8	1-13-71	W.M.	W.M.	REVISED TO ADD PART #15
9	1-13-71	W.M.	W.M.	REVISED TO ADD PART #16
10	1-13-71	W.M.	W.M.	REVISED TO ADD PART #17
11	1-13-71	W.M.	W.M.	REVISED TO ADD PART #18
12	1-13-71	W.M.	W.M.	REVISED TO ADD PART #19
13	1-13-71	W.M.	W.M.	REVISED TO ADD PART #20
14	1-13-71	W.M.	W.M.	REVISED TO ADD PART #21
15	1-13-71	W.M.	W.M.	REVISED TO ADD PART #22
16	1-13-71	W.M.	W.M.	REVISED TO ADD PART #23
17	1-13-71	W.M.	W.M.	REVISED TO ADD PART #24
18	1-13-71	W.M.	W.M.	REVISED TO ADD PART #25
19	1-13-71	W.M.	W.M.	REVISED TO ADD PART #26
20	1-13-71	W.M.	W.M.	REVISED TO ADD PART #27
21	1-13-71	W.M.	W.M.	REVISED TO ADD PART #28
22	1-13-71	W.M.	W.M.	REVISED TO ADD PART #29
23	1-13-71	W.M.	W.M.	REVISED TO ADD PART #30
24	1-13-71	W.M.	W.M.	REVISED TO ADD PART #31
25	1-13-71	W.M.	W.M.	REVISED TO ADD PART #32

THIRD ANGLE PROJECTION	DATE: 11-20-70	BY: W.M.	CHKD: W.M.	TITLE: H777-LED digital
REMOVE SURF AND BREAK SHARP CORNERS	PROJ. ENG.:	DESIGNER:	DATE:	SCALE: 1"=1"
DO NOT SCALE DIMS	MATERIAL: D-1A-777-0-0	SIZE: D	CODE: AD	NUMBER: 7012909-0-0
FINISH: -	QUANTITY: 1	OF: 1	DIST.:	REV. E

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY S. ROCCHIA
DATE 29 JUL 76
ENG R. COURTMACHE
DATE 13 SEP 76
CHECKED D. HEALY
DATE 2 AUG 76
PROD R. BARRY
DATE 13 SEP 76
SECTION 1
ISSUED SECT. 1

ITEM NO	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION
1	D-CS-5412667-0-1	H777 +5V REG (REV & UP)	1
2	9006633	WASHER, INT TOOTH LOCK #6	4
3	9006025-01	SCR PHIL HD PAN #6-32 x .62L	2
4	9006023-01	SCR PHIL HD PAN #6-32 x .44L	2
5	D-IA-7011415-0-0	HARNES H777 +5V REG	1
6	9006660	WASH, .375 O.D. x .137 I.D. x .036	2
7	D-IA-7011560-0-0	HARNES BD MOS REG PWR DIST	1
8	D-CS-5411586-0-1	BOARD, PWR DISTR. H777	1
9	D-IA-7417017-0-0	PLATE, CAPACITOR CONN SIDE	1
10	9008185	NUT KEPS #6-32	2
11	9006020-1	SCR PHIL PAN HD #6-32 x .25L	2
12	9009052	CLAMP CAPACITOR	1
13	1012740-00	CAPACITOR 3900uF 16.0V (65)	1
14	9007017	GROMMET RUBBER	2
15	E-IA-7415743-1-0	BRACKET CAPACITOR	1
16	9007035	GROMMET CATERPILLAR	A/R
17	1010702	CAPACITOR 24Kuf 50V	2
18	C-MD-7417408-0-0	CLAMP CAPACITOR	1
19	9009836-1	SCR PHIL HD TRUSS #8-32 x .38L	2
20	9006634	WASHER INT TOOTH LOCK #8	2
21	9008258	SPACER HEX #8-32 x 1.375	2
22	16J2584	CHOKE	1

TITLE +5V REG ASSY
ASSY NO. D-AD-7012909-0-0
SIZE CODE A PL
NUMBER 7012909-0-0
REV. 7012909 E
ML003

DEC FORM DEC 16 (325) 1031 N870
DRA 110

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY S. ROCCHIA
DATE 29 JUL 76
ENG R. COURTMACHE
DATE 13 SEP 76
CHECKED D. HEALY
DATE 2 AUG 76
PROD R. BARRY
DATE 13 SEP 76
SECTION 1
ISSUED SECT. 1

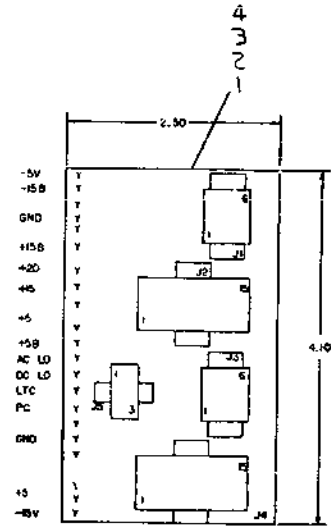
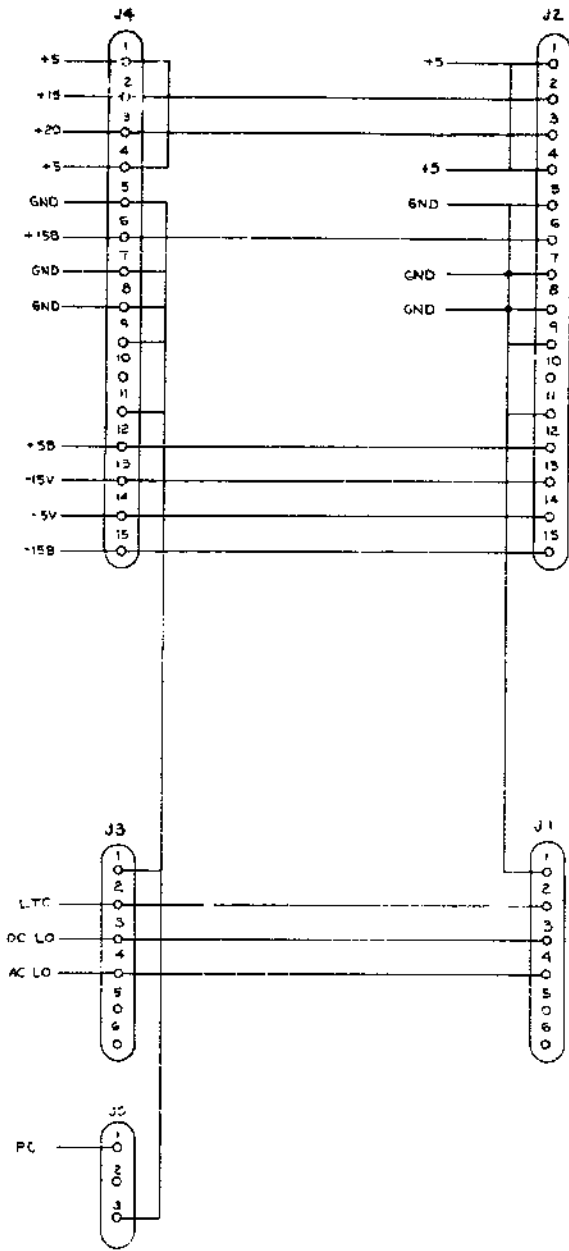
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION
23	B-IA-7011801-0-0	JUMPER (RED)	1
24	B-IA-7011802-0-0	JUMPER (BLK)	1
25	B-IA-7011800-0-0	JUMPER (GRN)	2
26	9006563	NUT KEPS #8-32	2
27	9006707	WASHER NYLON #6	2
28	9000039-07	SCR, FLAT HD #6-32 x .25	5
29	A-DC-7416911-0-0	DECAL, BATT BACKUP	1
30	B-IA-7011801-0-1	JUMPER, RED	1
31	B-IA-7011802-0-1	JUMPER, BLK	1
32	9009624	BUMPER	1
33	9009255-00	LABEL	1
34	9007031	CABLE TIE	2
35	9006071-01	SCR PAN HD #10-32 x .37	4
36	9006636	WASHER LOCK INT .380 OD x .200 ID x .022THK	4
37	9009667	SCR, SEMG, SLOTTED BINDER HD #10-32 x 5/16	2

TITLE +5V REG ASSY
ASSY NO. D-AD-7012909-0-0
SIZE CODE A PL
NUMBER 7012909-0-0
REV. 7012909 E
ML003

DEC FORM DEC 16 (325) 1031 N870

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NOTES:



REF	DESCRIPTION	PART NO.	QTY
	X-Y COORDINATE HOLE LOCATION	X-CO-5411586-0-4	1
	ASSY DRILLING HOLE LAYOUT	D-AM-5411586-0-5	2
	MODULE BCD HISTORY	B-MN-5411586-0-6	3
1	ETCHED CIRCUIT BOARD	5011985	4
2	J2, J4	CONN., MATE-N-LOCK, 15 PIN HOUSING	1209350-15
2	J1, J3	CONN., MATE-N-LOCK, 5 PIN HOUSING	1209350-06
4D	PIN CONTACT, MATE-N-LOCK	1209436-01	7
1	J5	CONN., MATE-N-LOCK, 3 PIN HOUSING	1209350-03

IC TYPE	GROUND	+5V

IC PIN LOCATIONS

GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE

FIRST USED ON OPTION MODEL		QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1104 PWR SUPPLY						

CHG. NO.	REVISIONS	DATE	BY	REVISIONS

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

SCALE	NEXT HIGHER ASSY
NONE	

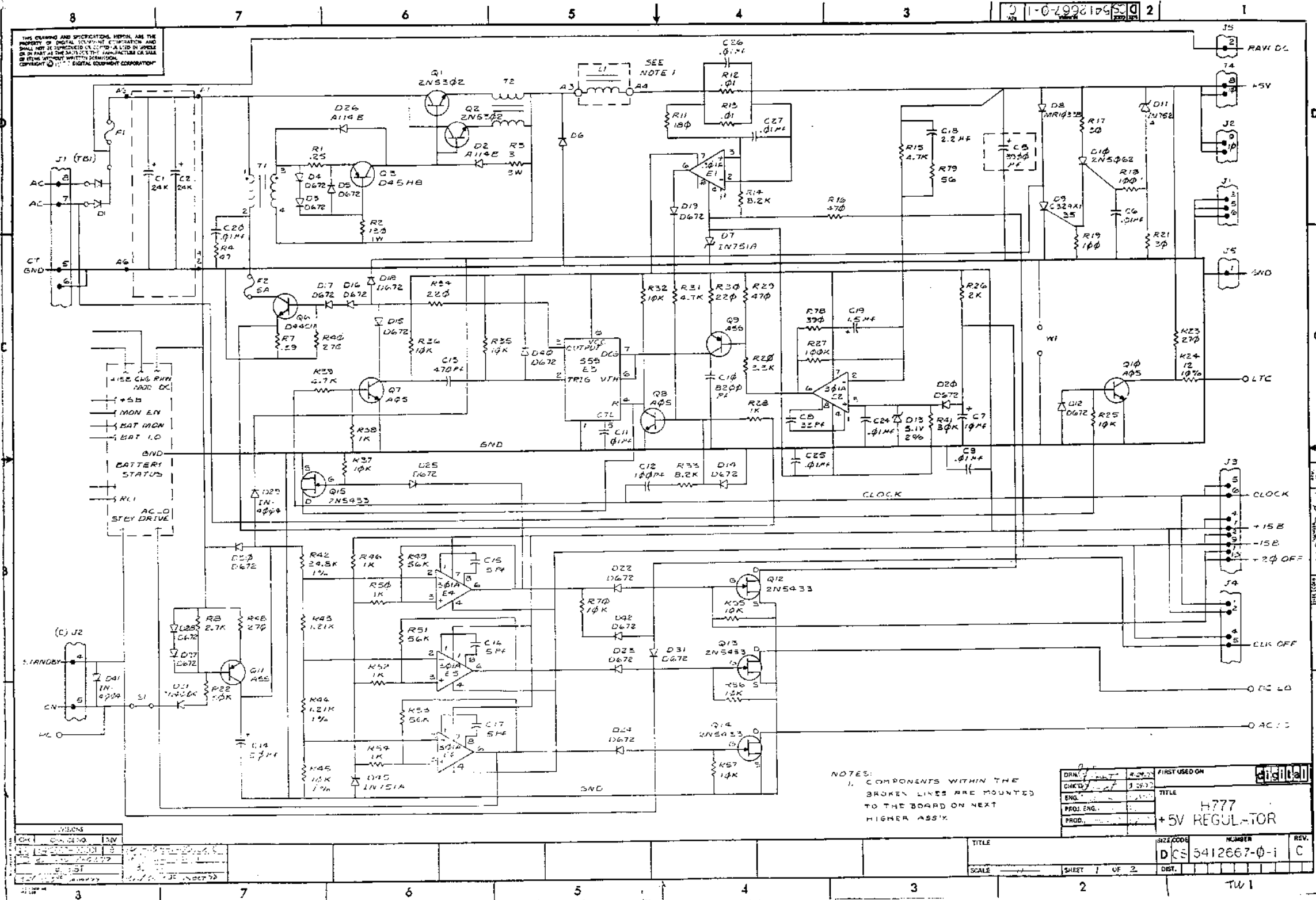
TITLE	BOARD NUMBER	REV.
BOARD POWER DISTRIBUTION H777	DICS 5411586-0-1	C

DIGITAL EQUIPMENT CORPORATION

SEMICONDUCTOR CONVERSION CHART

SHEET 1 OF 1

DICS 5411586-0-1



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1-0-29981065 2

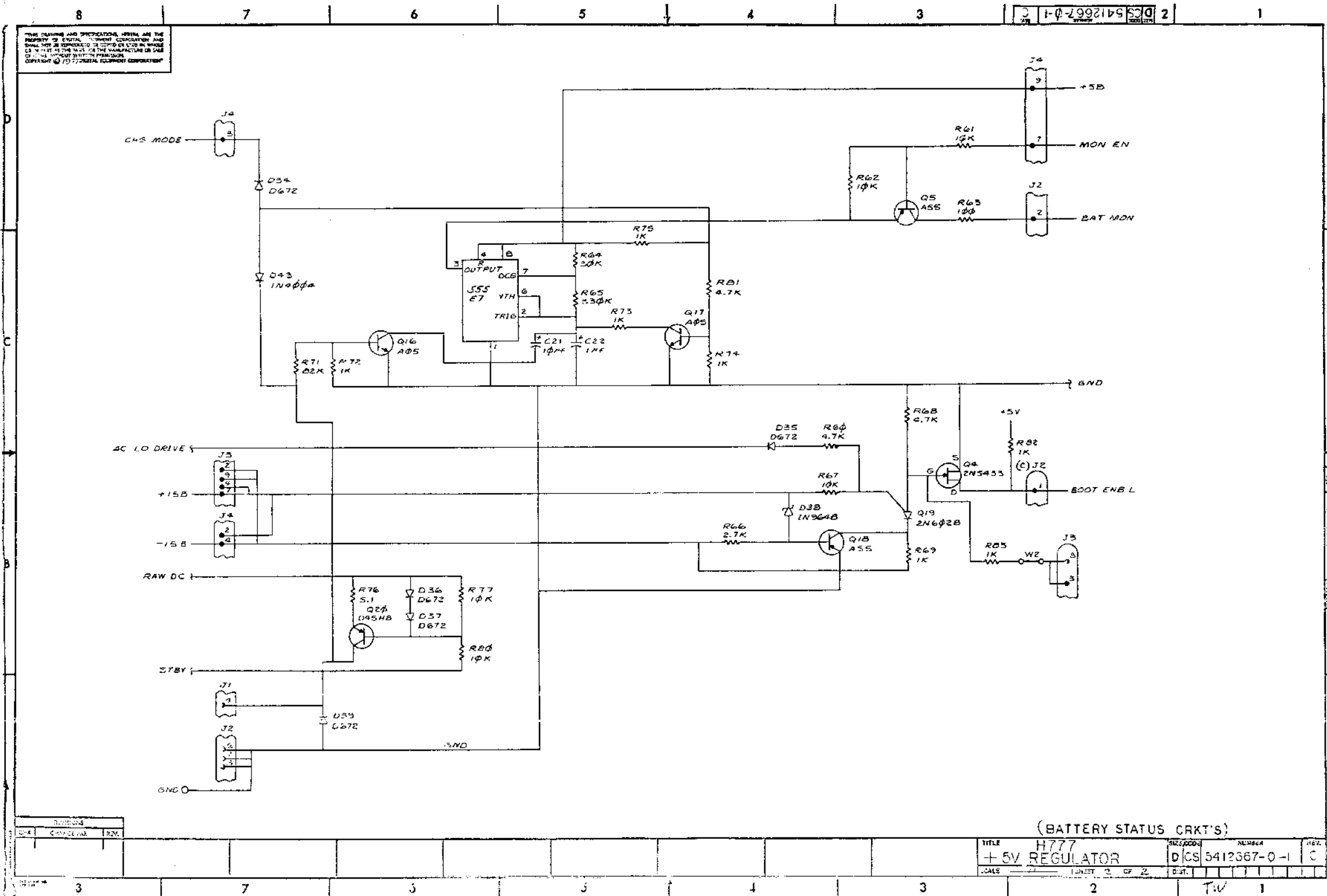
NOTES:
1. COMPONENTS WITHIN THE BROKEN LINES ARE MOUNTED TO THE BOARD ON NEXT HIGHER ASSY.

DRW. NO.	REV.	FIRST USED ON																			
CHKD.	DATE	TITLE																			
ENG.		H777																			
PROJ. ENG.		+5V REGUL-TOR																			
PROD.																					
<table border="1"> <tr> <th>REV.</th> <th>NO.</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>		REV.	NO.	DATE				<table border="1"> <tr> <th>REV.</th> <th>NO.</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	REV.	NO.	DATE				<table border="1"> <tr> <th>REV.</th> <th>NO.</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	REV.	NO.	DATE			
REV.	NO.	DATE																			
REV.	NO.	DATE																			
REV.	NO.	DATE																			

REV.	NO.	DATE

TITLE	H777	NUMBER	DCS 5412667-0-1	REV.	C
SCALE		SHEET	1 OF 2	DIST.	

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(BATTERY STATUS CRKT'S)

TITLE	H777	REV.	
	+5V REGULATOR	NUMBER	D/CS 5412667-0-1 C
SCALE	1:1	SHEET	2 OF 2
DATE		DESIGNER	
APPROVED		CHECKED	

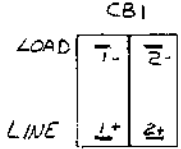
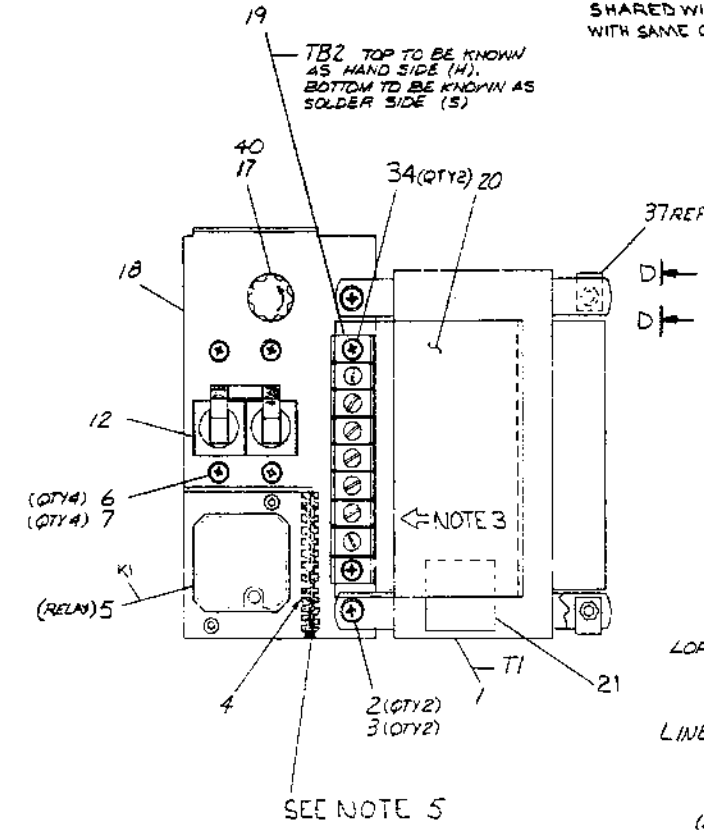
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PART NO		VARIATION		WIRE CHART															
NO	AVG	COLOR	CONN	WITH	CONN	WITH	REMARKS	NO	AVG	COLOR	CONN	WITH	CONN	WITH	REMARKS				
7012910-0	120 V			22	18	DR/WH	K1-4	SQA31	*TB2-3S	SOLD	5 1/2" L								
7012910-1	230 V			23	18	SR/WH	K1-6		*TB2-4S	SOLD	5" L								
				24	18	WH/DR	K1-7		TB2-5H	2S	9" L								
				26	18	WH/DR	K1-9		TB2-6H	2S	9" L								
				27	18	GRY	K1-A				13 1/2" L								
				46	18	GR/BL	G-2	SOLD	*TB2-6S	SOLD	6" L								
				47	18	GR/BL	F1-1	SOLD	*TB2-4S	SOLD	3" L								
				43	18	BRN	CBI(2) LOAD	28.37	*TB2-6S	SOLD	7 1/2" L								
				43	18	BLU	CBI(1) LOAD	28.37	*TB2-1S	SOLD	7 1/2" L								
				45	14	BLU	CBI(1) LINE		NOTE 6		17" L								
				45	14	BRN	CBI(2) LINE		NOTE 6		17" L								
				15	18	WHT	*TB2-7S	SOLD	J2-2	30.32	10" L								
				15	18	BLK	*TB2-5S	SOLD	J2-1	30.32	9" L								
				15	18	WHT	*TB2-7S	SOLD	J3-2	30.32	15" L								
				15	18	BLK	*TB2-5S	SOLD	J3-1	30.32	15 1/2" L								

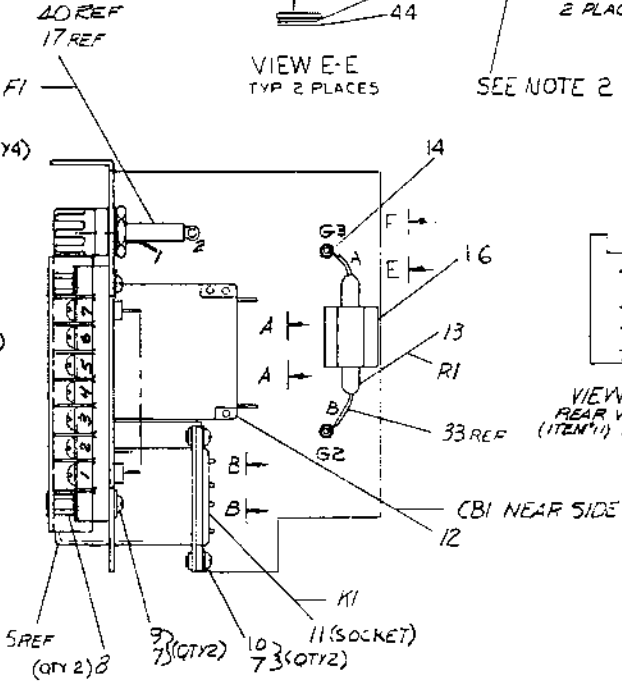
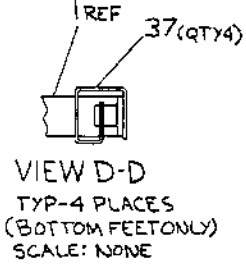
* INDICATES SOLDER CONN. SHARED WITH OTHER CONN. WITH SAME COMMON CONN.

SEE NOTE 2
SEE DETAIL 'E'

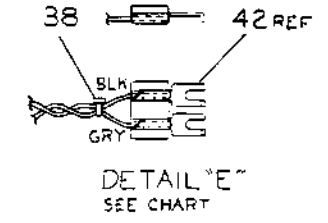
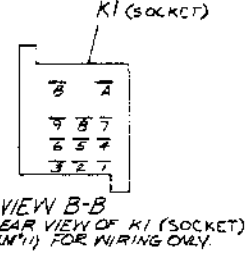
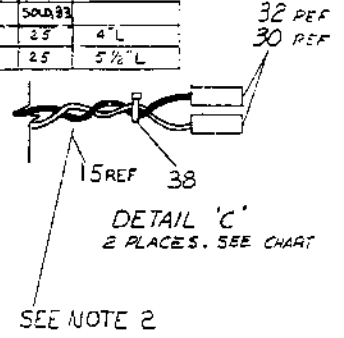
SEE NOTE 2
SEE DETAIL 'C'



VIEW A-A
REAR VIEW OF CBI (ITEM 12) FOR WIRING ONLY.



SIDE VIEW
TRANSFORMER (ITEM 11) REMOVED FOR CLARITY.



NOTES:

1. ~~COVER ITEM 28 WITH ITEM 31~~
~~COVER ENTIRE CONN.~~
2. TWISTED PAIR WIRE TO HAVE A MIN OF 2 TWIST PER FT AS PER WIRE CHART.
3. ALL CONNECTIONS TO TB2 ARE TO BE MADE FROM SIDE INDICATED BY ARROW.
4. USE TIE WRAPS (ITEM 38) AS NEEDED.
5. TI PRIMARY WIRES TO TB2 MUST BE ROUTED BY ITEM 4.
6. NO CONNECTION IS MADE AT THIS ASSY LEVEL REFER TO PRINT E-1A-H777-0-0

OFF SHEET PARTS LIST SEE A-PL-7012910-0-0

DESCRIPTION	DWG. PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
ANGLE 10° 30'	ADJUST	OVER
SURFACE QUALITY	CHECK ONE	12
QUANTITY & VARIATION	MEDIUM	1.00M
THIRD ANGLE PROJECTION	DISPENSED	1.00M
REMOVE BURRS AND BREAK SHARP CORNERS	1.00M	1.00M
DO NOT SCALE DWG	1.00M	1.00M
MATERIAL	1.00M	1.00M
FINISH	1.00M	1.00M

DRN. H. P. 12/25/77

CHECKED BY: [Signature]

ENG. [Signature]

PROJ. ENG. [Signature]

PROD. [Signature]

NEXT HIGHER ASSY.

FIRST USED ON: H777-C9D

TITLE: A/C INPUT ASSY (120V/230V)

SCALE: 1:1

SIZE CODE: D

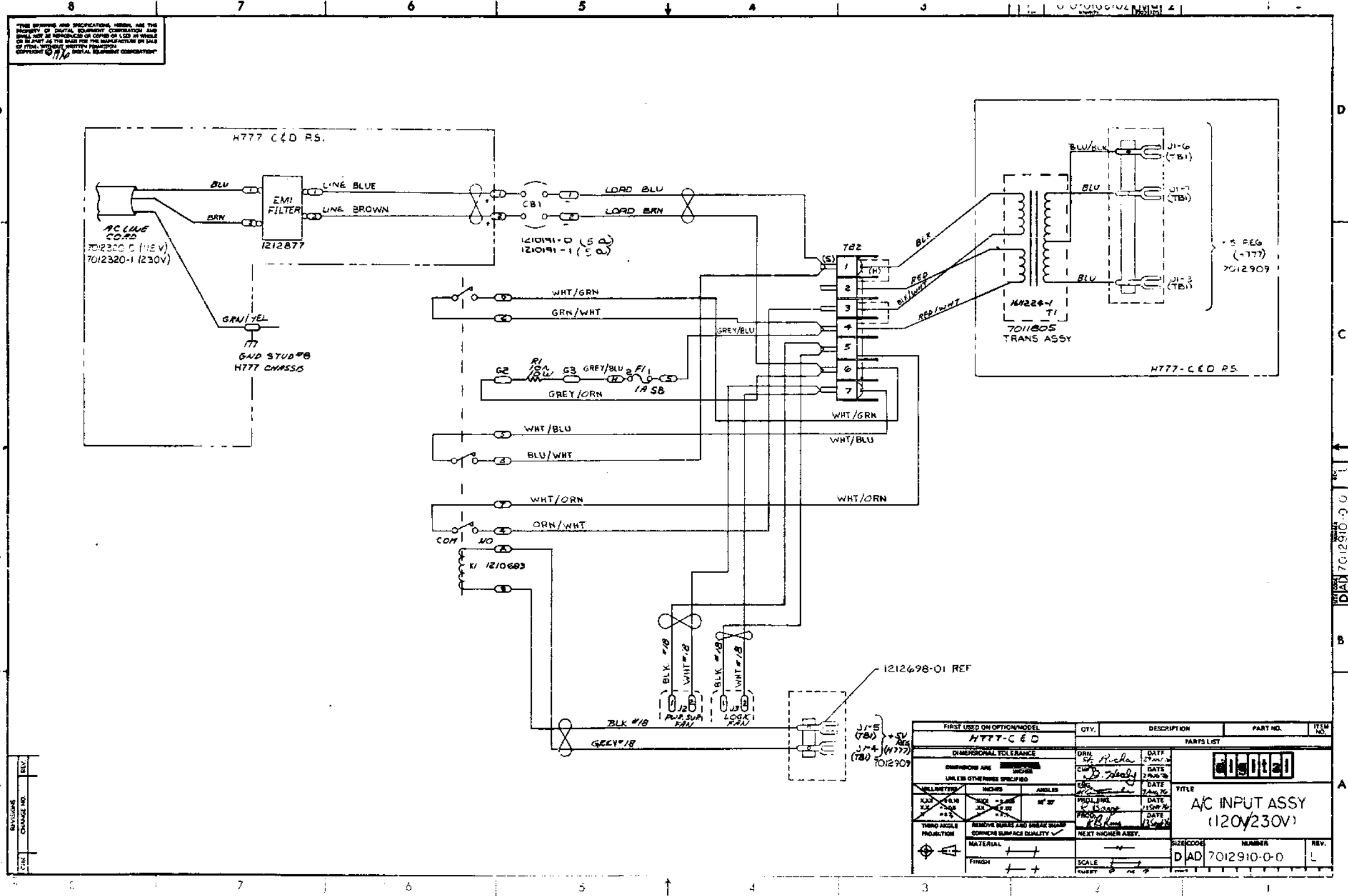
NUMBER: 7012910-0-0

REV. L

SHEET 7 OF 2

REV.	DATE	BY	CHKD.	DESCRIPTION
1	12/25/77	H.P.	[Signature]	INITIAL DESIGN
2	1/10/78	[Signature]	[Signature]	REVISED TO ADD TB2
3	1/10/78	[Signature]	[Signature]	REVISED TO ADD TB2
4	1/10/78	[Signature]	[Signature]	REVISED TO ADD TB2
5	1/10/78	[Signature]	[Signature]	REVISED TO ADD TB2
6	1/10/78	[Signature]	[Signature]	REVISED TO ADD TB2
7	1/10/78	[Signature]	[Signature]	REVISED TO ADD TB2
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49	1/10/78	[Signature]	[Signature]	REVISED TO ADD TB2
50	1/10/78	[Signature]	[Signature]	REVISED TO ADD TB2

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FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
H777-CED				
PARTS LIST				
DIMENSIONAL TOLERANCE		DRN	DATE	
UNLESS OTHERWISE SPECIFIED		CHK'D	DATE	
MILLIMETERS	MILLIMETERS	ANGLES	DATE	
±0.10	±0.10	±0.5°	DATE	
±0.25	±0.25	±1.0°	DATE	
±0.50	±0.50	±2.0°	DATE	
THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK EDGES	NEXT HIGHER ASSY.	DATE	
MATERIAL	FINISH	SCALE	DATE	
TITLE			SIZE/CODE	NUMBER
A/C INPUT ASSY (120V/230V)			D AD	7012910-0-0
REV.				
L				

D AD 7012910-0-0

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			QUANTITY/VARIATION												
PARTS LIST															
MADE BY <i>R. Barry</i>	CHECKED D. HEALY	SECTION 1													
DATE 11-16-76	DATE 27 JUL 76	ISSUED SECT. 1													
ENG R. Barry	PROD R. Barry	ISSUED SECT. 1													
DATE 9-17-76	DATE 21 SEP 76	ISSUED SECT. 1													
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	7012910-0	7012910-1											
1	C-1A-7011805-0-0	TRANSFORMER ASSY	1	1											
2	9006037-01	SCR PHIL PAN HD #8 - 32 x .38	2	2											
3	9006634	WASHER INT. TOOTH LOCK #8	2	2											
4	9007035	GROMMET CATERPILLAR	A	BA/R											
5	1210683-00	RELAY 12V 3P 10A	1	1											
6	9006020-01	SCR PHIL HD PAN #6-32 x .25	4	4											
7	9006633	WASHER INT. TOOTH LOCK #6	10	10											
8	9006842	SPACER HEX #6 - 32 x .31	2	2											
9	9007794-01	SCR PHIL HD PAN #5 - 32 x .59	2	2											
10	9006021-01	SCR PHIL HD PAN #6 - 32 x .31	2	2											
11	1212789	SOCKET, RELAY	1	1											
12	1210191-1	CIRCUIT BREAKER, 5A	1	1											
13	1300173	RESISTOR, 10 OHM, 10W	1	1											
14	9006966	TERMINAL TURRET INS	2	2											
15	9107430-09	WIRE #18 AWG INS TW/PR (WHT/BLK)	A	BA/R											
16	9009771-2	CLAMP (RESISTOR) 3/8 I.D. SELF ADH.	1	1											
17	1212893-00	HOLDER, FUSE 20A, 300V	1	1											
18	D-1A-7417219-0-0	BRACKET, COMPONENT	1	1											
19	1212788	BARRIER STRIP 7 POS	1	1											
20	B-1A-7414743-1-0	SHIELD, TERM.	1	1											
21	9008264	MOUNT TIE WRAP	1	1											
22	9107410-39	WIRE #18 AWG INS ORN/WHT	A	BA/R											
TITLE A/C INPUT ASSY (120V/230V)	ASSY NO. D-AD-7012910-0-0	SIZE CODE A PL	NUMBER 7012910-0-0	REV. L	ECO NO 7012910-00005										
SHEET 1 OF 3		DIST.													

DEC FORM DEC 16 (325)-1031-N870
DRA 110

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			QUANTITY/VARIATION												
PARTS LIST															
MADE BY A. ROCHA	CHECKED D. HEALY	SECTION 1													
DATE 19-JULY-76	DATE 27-JULY-76	ISSUED SECT. 1													
ENG R. BARRY	PROD R.B. KING	ISSUED SECT. 1													
DATE 17-SEPT-76	DATE 21-SEPT-76	ISSUED SECT. 1													
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	7012910-0	7012910-1											
45	C-1A-7417288-0-0	A/C CONN HARNESS	1	1											
46	9107410-83	WIRE #18 AWG INS GREY/ORN	A	BA/R											
47	9107410-86	WIRE #18 AWG INS GREY/BLU	A	BA/R											
48	9107410-69	WIRE #18 AWG INS BLU/WHT	A	BA/R											
49	9107410-96	WIRE #18 AWG INS WHT/BLU	A	BA/R											
TITLE A/C INPUT ASSY. (120V/230V)	ASSY NO. D-AD-7012910-0-0	SIZE CODE A PL	NUMBER 7012910-0-0	REV. L	ECO NO 7012910-00005										
SHEET 3 OF 3		DIST.													

DEC FORM DEC 16 (325)-1031-N870
DRA 110

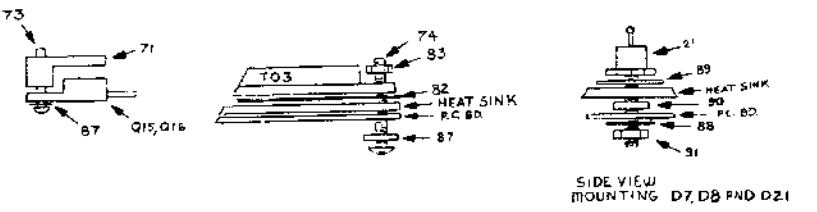
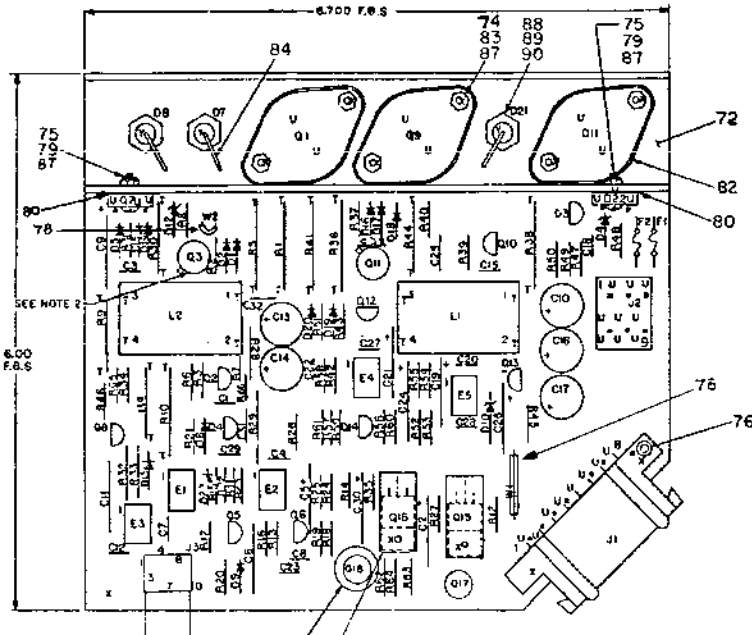
DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			QUANTITY/VARIATION												
PARTS LIST															
MADE BY <i>A. Rocha</i>	CHECKED D. HEALY	SECTION 1													
DATE 19 JULY 76	DATE 27 JUL 76	ISSUED SECT. 1													
ENG R. Barry	PROD R.B. King	ISSUED SECT. 1													
DATE 9-17-76	DATE 21 SEP 76	ISSUED SECT. 1													
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	7012910-0	7012910-1											
23	9107410-59	WIRE 18 AWG INS GRN/WHT	A	BA/R											
24	9107410-93	WIRE 18 AWG INS WHT/GRN	A	BA/R											
25	9007929	RING CLAMP (RED INS)	2	2											
26	9107410-95	WIRE 18 AWG INS WHT/GRN	A	BA/R											
27	9107430-08	WIRE 18 AWG INS (GRY/BLK) TW/PR	A	BA/R											
28	9007970	CONN FASTON (RED INS.)	2	2											
29	1210191-1	CIRCUIT BREAKER, 5A	1	1											
30	1210820-2	HOUSING TERM. FASTAB	4	4											
31	9107305-02	TUBING SHRINK (RED)	A	BA/R											
32	1210820-1	HOUSING SOCKET, FASTAB	4	4											
33	12107278-02	TUBING INS (RED)	A	BA/R											
34	9008020-02	SCR, PHL, FLAT HD, 6 - 32 x .19	2	2											
35	B-1A-7011797-0-0	JUMPER ASSY (BLK 2")	1	1											
36	B-1A-7011798-0-0	JUMPER ASSY (WHT 2")	1	1											
37	9007786	NUT #10 - 32	4	4											
38	9007031	TIE WRAP	A	BA/R											
39	9107410-09	FUSING, SHRINK (WHT)	A	BA/R											
40	9007212	FUSE, 1A, 250V S.B.	1	1											
41	1210820-1	HOUSING SOCKET, FASTAB	4	4											
42	1212698-01	STRIP, PANNING (2 POSITION)	1	1											
43	9107430-16	WIRE #18 AWG INSTWP BAN, BLU	A	BA/R											
44	9006656	WASHER, FLAT	2	2											
TITLE A/C INPUT ASSY (120V/230V)	ASSY NO. D-AD-7012910-0-0	SIZE CODE A PL	NUMBER 7012910-0-0	REV. L	ECO NO 7012910-00005										
SHEET 2 OF 3		DIST.													

DEC FORM DEC 16 (325)-1031-N870
DRA 110

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NOTES:

1. SEE PARTS LIST FOR CURRENT HOW, D7, D8, D21
2. USE TRANSIPAD DEC# 9007201 UNDER Q3, Q11, Q17, Q18
3. TORQUE Q1, Q9, D7, D8, D11, & D21 HARDWARE TO 6-8 IN-LBS.



IC TYPE	QND	+5V
QND AND +5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTS ARE STATED ABOVE		
IC PIN LOCATIONS		

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.	QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1	R18	RESISTOR, 2.2K, 1/4W, 5%	1303179	51	REF				
1	R20	RESISTOR, 4.99K, 1/4W, 1% WF	1305324	52	REF				
2	R1, R26	RESISTOR, 1.2K, 5% WF	1305420	53	REF				
1	R55	RESISTOR, 5/1, 1/4W, 5%	1309422	54	1				
2	R5, R38	RESISTOR, .15, 2W, 10%	1310147	55	2	C20, C4	CAPACITOR, 330pf, 100V, 5%	1000009	5
2	R32, R33	RESISTOR, 2.21K, 1/4W, 1%	1310831	56	1	C8	CAPACITOR, 1000pf, 100V, 5%	1000018	6
1	D27	DIODE 2N4441 SCR	1509807	57	1	C7	CAPACITOR, 220pf, 100V, 5%	1000261	7
3	Q3, Q11, Q17	TRANSISTOR, 2N4038	1509700	58	1	C25	CAPACITOR, .1uf, 100V, 20% DISC	1000030	8
1	Q18	TRANSISTOR, CEC 3734	1510062	59	9	C1, C3, C12, C15, C16, C27, C28, C32, C33	CAPACITOR, .01uf, 100V, DISC	1001610-01	9
1	Q7	TRANSISTOR, MJE3055	1510555	60					
7	Q4, Q5, Q6, Q9, D12 THRU Q14	TRANSISTOR, XA05	1510795	61	6	C2, C5, C9, C18, C26, C30	CAPACITOR, INT, .5V, 10%	1001176	10
2	Q2, D10	TRANSISTOR, XA55	1510708	62	2	C29, C31	CAPACITOR, 2.2uf, 25V, 20%	1010279	11
1	Q16	TRANSISTOR, D45HE	1510709	63	1	C24	CAPACITOR, 10uf, 20V, 10%	1004913	12
2	Q1, Q9	TRANSISTOR, 2N5038	1510989	64	2	C6, C21	CAPACITOR, .01uf, 100V, 10% MYLAR	1005784	13
1	Q15	TRANSISTOR, D44H5	1512722	65	1	C11	CAPACITOR, .015uf, 50V, 2% POLYC	1010646	14
2	LT, L7	INDUCTOR, 500uh	1612591	66	2	C13, C14	CAPACITOR, 390pf, 20V	1012504-05	15
2	F7, E5	I.C. L.M. 301A	1910282	67	1	C17	CAPACITOR, 1200uf, 5.3V	1012501-01	16
3	E1, E3, E4	I.C. L.M. 555	1911944	68	2	C10, C15	CAPACITOR, 180uf, 50V	1012807-02	17
1	C22	CAPACITOR, 470pf, 100V, 5%	1000024	69	1	D4	DIODE 1N4524	1102808	18
1	C23	CAPACITOR, 180pf, 100V 5.3%	1000020	70	11	D1, D2, D6, D13 THRU D17, D19, D20, D23	DIODE D672	1105275	19
1		HEAT SINK	7414765	71	1	D9	DIODE 1N4004	1105196	20
1		HEAT SINK	7413842	72	1	D9	DIODE 1N3980	1109440	21
2		SCREW #4-40 x 7/16 LG	9006012-1	73	3	D7, D8, D21	DIODE 1N4742	1109502	22
2		SCREW #4/40 x 1/2 LG	9006013-1	74	1	D12	DIODE 1N4742	1110713	23
2		SCREW NYLON #4/40 x 3/32 LG	9006401-4	75	1	D10	DIODE 1N4148	1112355-01	25
1		EYELET	9009000	76	1	D3	DIODE DUAL	1112723-00	26
4		TRANSIPAD	9007201	77	2	D5, D18	FUSE 5A	1209670	27
A/R		TUBING	9107256-11	78	1	D11	CONN, 8 PIN MATE-N-LOC	1209349-00	28
2		NUT, NYLON #4-40	9037592	79	2	F1, F2	CONN, 4 PIN MATE-N-LOC	1209350-09	29
2		SILPAD TO Z2	1213071-06	80	1	J1	PINS	1209456-01	30
A/R		THERMAL COMPOUND	9008268	81	1	J2	HEAT SINK	1210001	31
3		SILPAD TO 3	1213071-02	82	17				
8		NUT, KEP #4-40	9006557	83	1				
A/R		WIRE #20 AWG STRANDED	9107486-65	84	5	R2, R3, R37, R47, R50	RESISTOR, 33, 1/4W, 5%	1300197	32
1	J3	CONTROL CABLE	701414-D-D	85	2	R12, R14	RESISTOR, 47, 1/4W, 5%	1300202	33
10		WASHER, 1/8 X 3/8 INTERFERE	9009172	86	8	R6, R27, R35, R39, R40, R49, R63, R64	RESISTOR, 100, 1/4W, 5%	1300229	34
10		WASHER, FLAT	9009172	87	8	R84	RESISTOR, 100, 1W, 5%	1300232	35
3		WASHER, FLAT	9006666	88	2	R9, R44	RESISTOR, 390, 1/4W, 5%	1300309	36
3		SILPAD, STUD MOUNT	1213071-05	89	1	R52	RESISTOR, 1K, 1/4W, 5%	1300365	37
3		BUSHING, NYLON	9008440	90	7	R19, R29, R54, R59, R60, R82, R85	RESISTOR, 1.5K, 1/4W, 5%	1300391	38
3		NUT, HEX #10-32	9076565	91	1	R45	RESISTOR, 2.49K, 3/4W, 1%	1300424	39
A/R	W1, W2	WIRE #20 AWG. SOLID	9107560-02	93	3	R11, R43, R51	RESISTOR, 2.7K, 1/4W, 5%	1300425	40
2		LABEL POWER SUPPLY	9009255-00	94	2	R7, R65	RESISTOR, 4.7K, 1/4W, 5%	1300447	41
1		TIE, CABLE	9007031	95	2	R23, R58	RESISTOR, 5.62K, 1/4W, 1%	130512B	42
						R13, R15, R16, R17, R21, R22, R42, R46, R51, R57, R58	RESISTOR, 10K, 1/4W, 5%	1300479	43
						R53, R24	RESISTOR, 100K, 1/4W, 5%	1302466	44
						R8, R37, R40	RESISTOR, 10, 1/4W, 5%	1301317	45
						R10, R41	RESISTOR, 330, 2W, 10%	1301981	46
						R28, R34	RESISTOR, 2K, 1/4W, 5%	1302369	47
						R66	RESISTOR, 180, 1/4W, 5%	1301322	48
						R4	RESISTOR, 1.2K, 1W, 10%	1302950	49
						R30	RESISTOR, 1.8K, 1W, 5%	1303122	50

ALTERNATE PARTS LIST

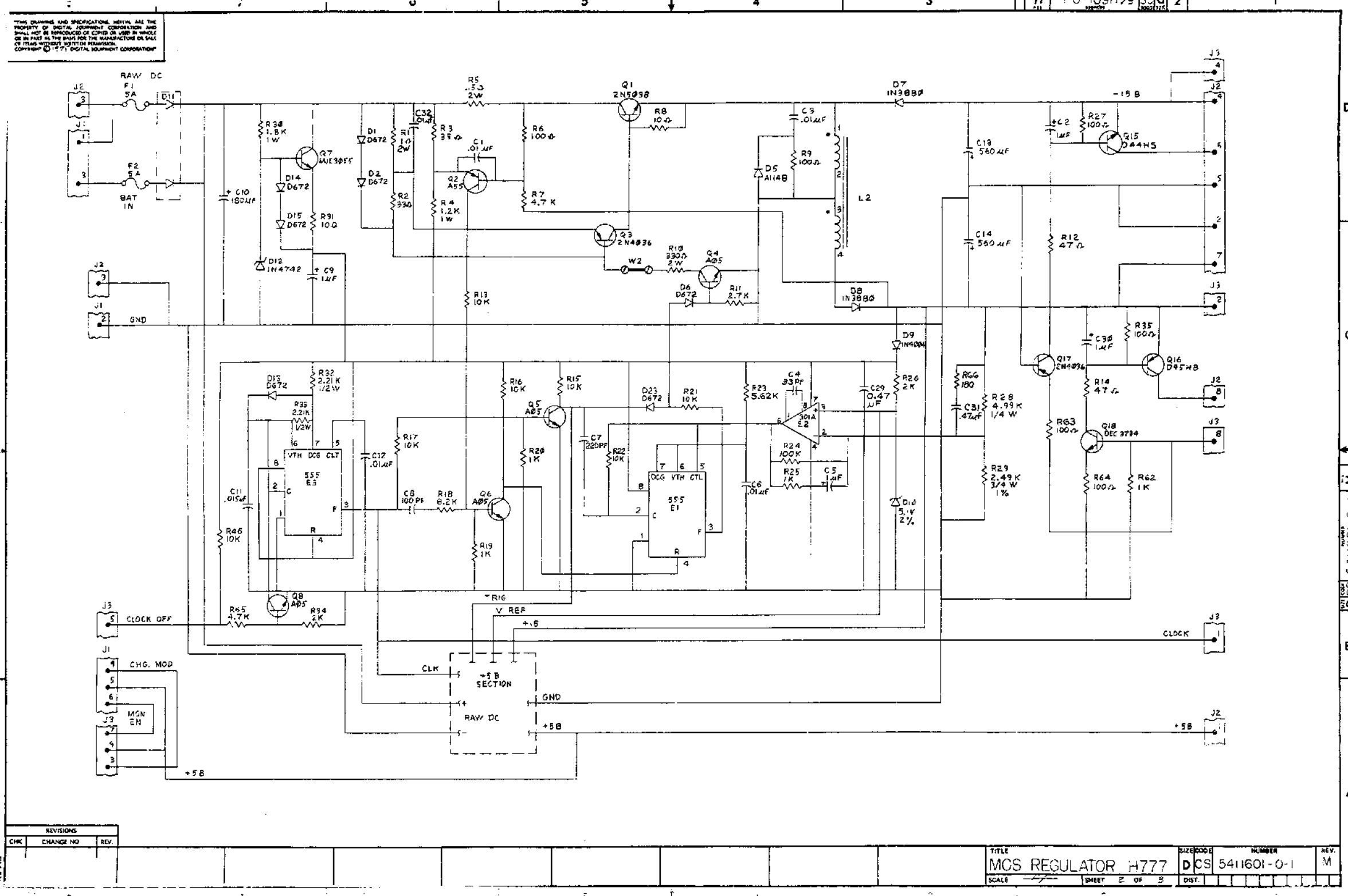
QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.	QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1		EYELET	9009172	76					
9	C1, C2, C12, C15, C16, C27, C28, C32, C33	CAPACITOR, .01 MF 50V	1001610-01	9					

BRUCE GRAMIN
 4 NOV 77
 SAIGO1-00006 L
 SAIGO1-00007 M
 SAIGO1-00008 N
 SAIGO1-00009 O
 SAIGO1-00010 P
 SAIGO1-00011 Q
 SAIGO1-00012 R
 SAIGO1-00013 S
 SAIGO1-00014 T
 SAIGO1-00015 U
 SAIGO1-00016 V
 SAIGO1-00017 W
 SAIGO1-00018 X
 SAIGO1-00019 Y
 SAIGO1-00020 Z

RICHARD BARRY
 12-10-75
 SAIGO1-00010
 SAIGO1-00011
 SAIGO1-00012
 SAIGO1-00013
 SAIGO1-00014
 SAIGO1-00015
 SAIGO1-00016
 SAIGO1-00017
 SAIGO1-00018
 SAIGO1-00019
 SAIGO1-00020

ETCH BOARD REV		PARTS LIST		TITLE	
DRN	DATE 8-29-75	DRN	DATE 8-29-75	digital	
CHKD		CHKD		MOS REGULATOR H777	
APP'D		APP'D		SAIGO1-00010-01	
REV		REV		REV. M	
DEC NO.		EIA NO.		SCALE	
DEC NO.		EIA NO.		SHEET 1 OF 3	
SEMICONDUCTOR CONVERSION CHART					

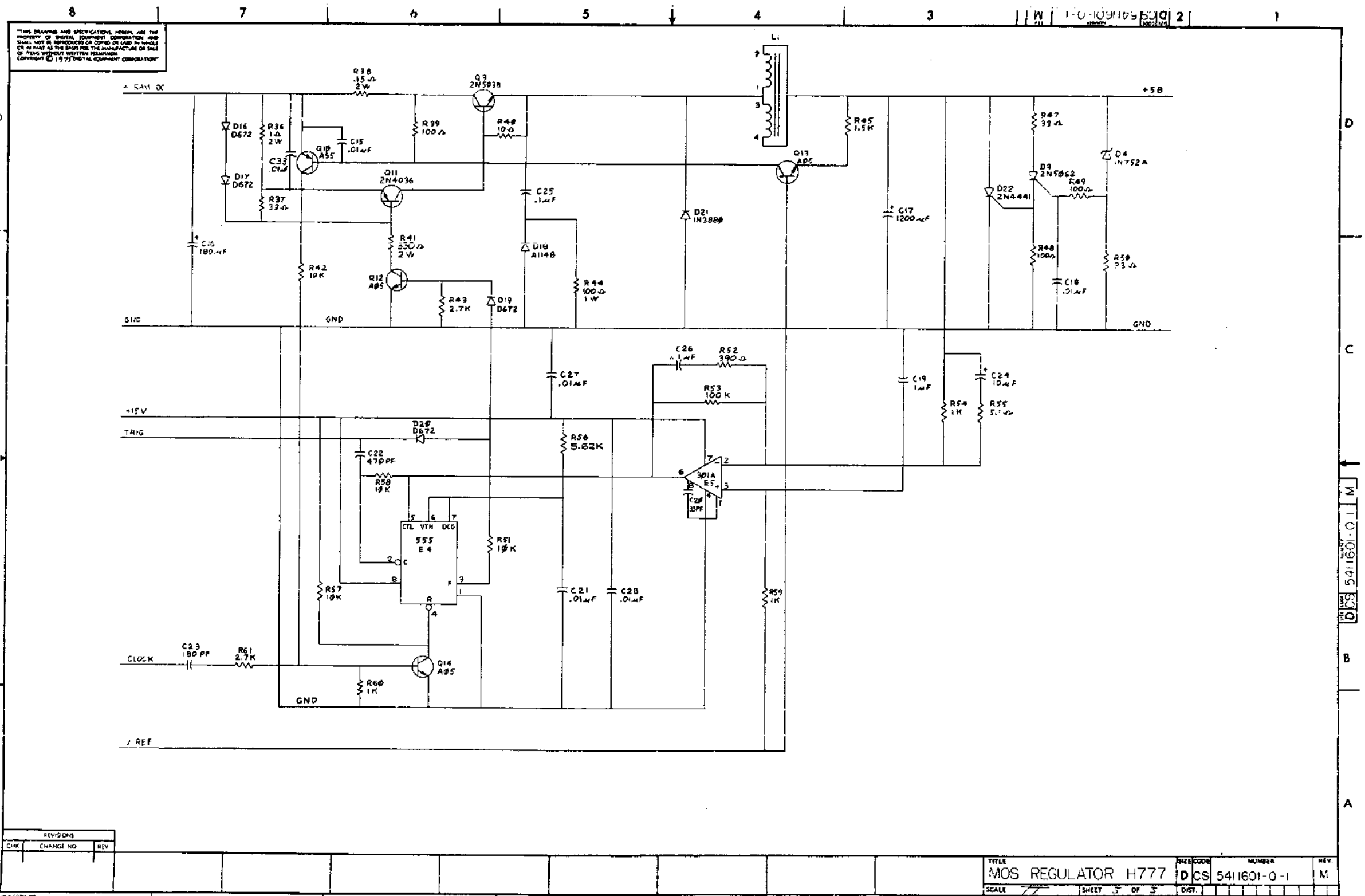
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REVISIONS		
CHK	CHANGE NO	REV.

TITLE	SIZE CODE	NUMBER	REV.
MCS REGULATOR H777	D	CS 5411601-0-1	M
SCALE	SHEET	OF	DIST.
	2	3	

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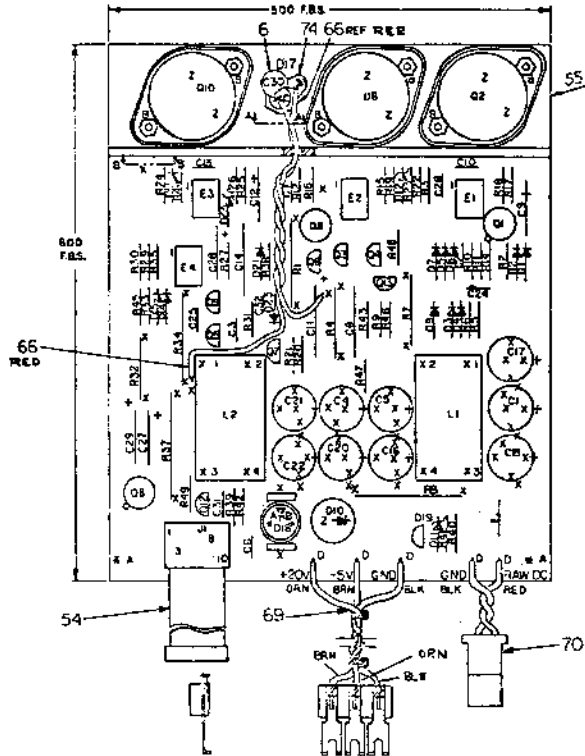
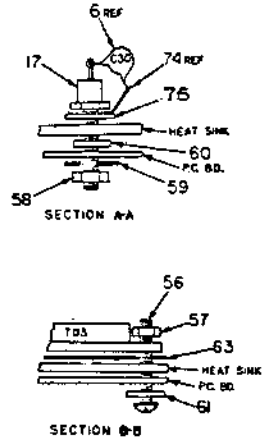
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CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
MOS REGULATOR H777	D	CS	5411601-0-1	M
SCALE	SHEET	OF	DIST.	

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 CORPORATION 11100 DIGITAL EQUIPMENT CORPORATION

NOTES:

USE TRANSIPAD DEC # 9007201 UNDER Q1/QB



QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	TEST INCL.	
1	HEAT SINK	7416236-0-0	55	REF	
6	SCREW, #4-40 x 1/2 IN PH HD	9006013-1	56	REF	
6	NUT, KEP #4-40	9006557	57	REF	
1	NUT, KEP #10-32	9006584	58	1	
1	WASHER, FLAT	9006662	59	1 C1	
1	BUSHING, NYLON	9008440	60	6 C2, C3, C8, C30, C24, C25	
1	WASHER, FLAT	9008112	61	3 C9, C17, C28	
6/R	COMPOUND, THERMAL	9009268	62	2 C10, C13	
3	INSULATOR, TO 3	1213071-02	63	1 C11	
1	SENSOR, THERMISTOR	9008440	64	2 C8, C14	
2	TRANSIPAD	9007201	65	1 C31	
1/R	WIRE #18 AWG, TWISTED PAIR	9101430-02	66	2 C5, C15	
1	C29	CAPACITOR, 2.2UF, 20V	10022627	67	7 C1, C17, C14, C4, C20, C21, C22
1	R47	RESISTOR, 200, 1/4W, 5%	1311522	68	1 D22
1	HARNESS (THREE WIRE)	C-1A 7012547-0-0	69	1 D10	
1	HARNESS (TWO WIRE)	C-1A 7012546-0-0	70	10 D1 THRU D7, D14, D15, D21	
1	C12	CAPACITOR, 10UF, 20V, 10%, TANT	1004813	71	1 D17
1	C23	DIODE, 1N753A	1102421	72	1 D12, D13
1	C26	CAPACITOR, 47UF, 25V, 20%, CER	1010279	73	1 D8
1	SOLDER, TERM, SCREW MTS.	9007845	74	1 D11	
1	SIL PAD, 500 J90 I.D.	1213071-05	75	1 D19	
1	C32	CAP. 1UF 50V CER.	1010274-02	76	1 D9.
1	F1	FUSE, 15A, PICO	1210929	23	
1	R46	RESISTOR, 10K, 1/4W, 5%	1302465	24	
6	R9, R39, R40, R41, R43, R45	RESISTOR, 100, 1/4W, 5%	1300229	25	
1	R7	RESISTOR, 100, 1W, 5%	1300232	26	
3	R11, R2, R33	RESISTOR, 390, 1/4W, 5%	1300309	27	
6	R6, R12, R23, R31, R17, R48	RESISTOR, 1K, 1/4W, 5%	1300365	28	
3	R10, R14, R30	RESISTOR, 2.7K, 1/4W, 5%	1300426	29	
4	R42, R44, R15, R27	RESISTOR, 4.7K, 1/4W, 5%	1300447	30	
1	R4	RESISTOR, 1K, 1W, 5%	1300368	31	
3	R16, R29, R38	RESISTOR, 10K, 1/4W, 5%	1300479	32	
2	R3, R35	RESISTOR, 10, 1/4W, 5%	1301317	33	
1	R45	RESISTOR, 470, 1/4W, 5%	1300316	34	
1	R5	RESISTOR, 27, 1/4W, 5%	1301522	35	
1	R34	RESISTOR, 300, 2W, 10%	1301981	36	
1	R19	RESISTOR, 2K, 1/4W, 5%	1302386	37	
2	R18, R26	RESISTOR, 100K, 1/4W, 5%	1302458	38	
1	R22	RESISTOR, 2.7K, 1/4W, 1%	1304446	39	
2	R1, R32	RESISTOR, 1, 2W, 5% W/W	1305428	40	
2	R24, R25	RESISTOR, 1.5K, 1/4W, 5%	1300391	41	
1	R21	RESISTOR, 8.25K, 1/4W, 1%	1309420	42	
2	R8, R37	RESISTOR, 0.5K, 3% W/W	1311503	43	
1	R20	RESISTOR, .56, 1/4W, 5%	1302602	44	
2	Q1, Q9	TRANSISTOR, 2N4838	1509700	45	
7	Q3, Q5, Q6, Q7, Q8, Q12, Q13	TRANSISTOR, 2N485	1510705	46	
1	Q4	TRANSISTOR, 2N485	1510706	47	
1	Q19	TRANSISTOR, C32A135	1510928	48	
2	Q2, Q10	TRANSISTOR, 2N5028	1510969	49	
1	Q11	TRANSISTOR, 2N5433	1511886	50	
2	L1, L2	INDUCTOR, 900UH	1812593	51	
2	E1, E3	I.C. DEC 301A	1910282	52	
2	E2, E4	I.C. DEC 555	1911944	53	
1	J1	DABLE ASSY	1011474 -0E	54	

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

DATE	1/17/77
CHKD	DATE
ENG	DATE
PROJ	DATE
WRT	DATE
NEXT HIGHER ASSY	
EUA-H777-0-0	
SCALE	
SHEET	OF 2

FIRST USED ON OPTION MODEL

ETCH BOARD REV. D

digital

TITLE: +20V REGULATOR/H777

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

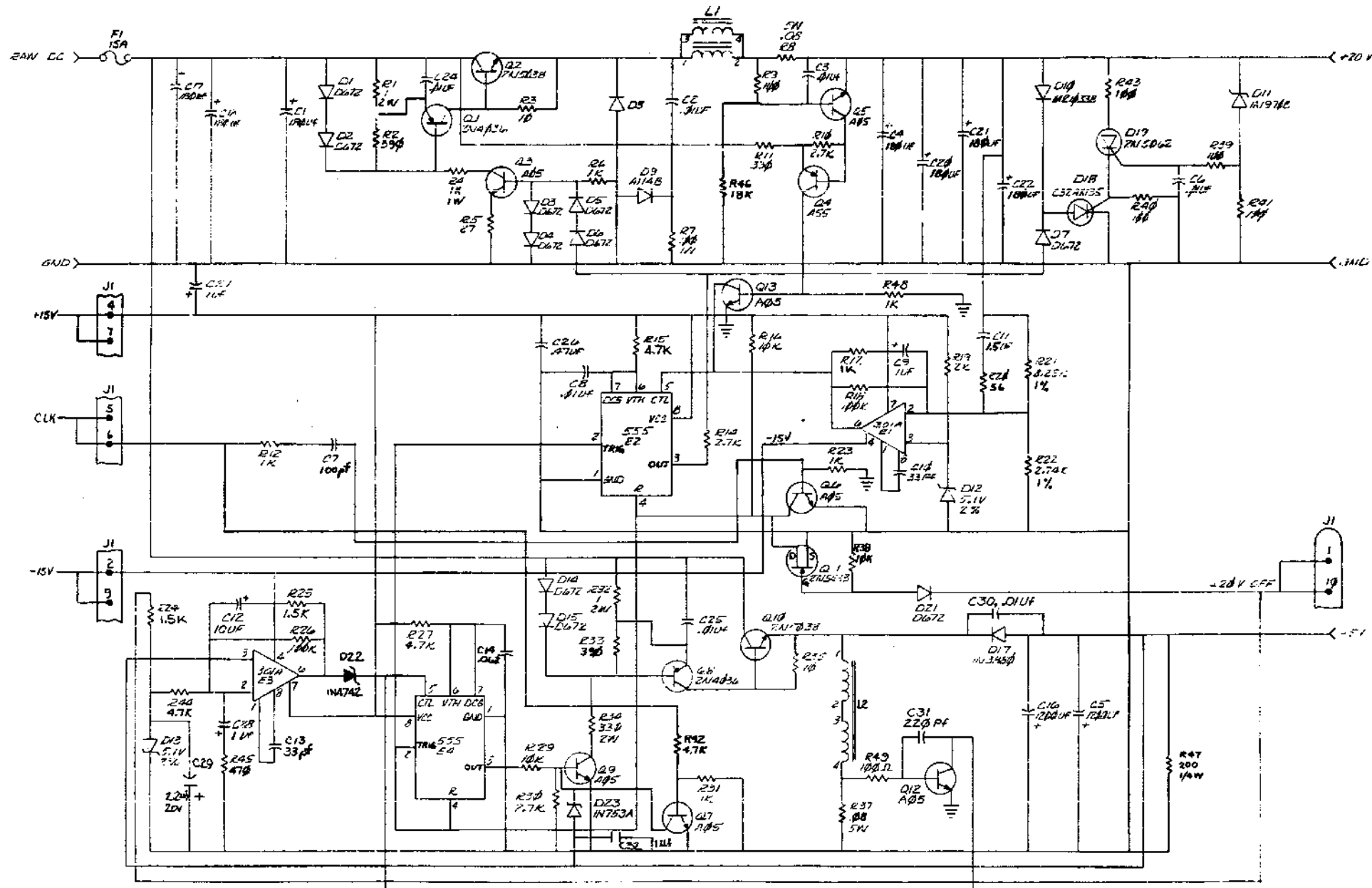
SEMICONDUCTOR CONVERSION CHART

SIZE CODE: DCS1541599-0-1

NUMBER: 1

REV: J

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REVISIONS		
CHR	CHANGE NO.	REV

TITLE	+20V REGULATOR/H777	SIZE/DWG	D/CSI5411599-0-1	NUMBER	J
SCALE	1:1	DATE			

142

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FIELD MAINTENANCE PRINT SET

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TABLE OF CONTENTS

FIELD MAINT. PRINT SET KY11-LA	B-TC-KY11-LA-1
CONSOLE OPER. ASSY	D-UA-KY11-LA-Ø
CIRCUIT ETCH BOARD KY11-LA	D-CS-5411497-0-1
DRAWING DIRECTORY	B-DD-KY11-LA

UNIT VARIATIONS COVERED BY THIS PRINT SET	
KY11-LA	

KY11-LA
Field Maintenance
Print Set

Digital Equipment
Corporation

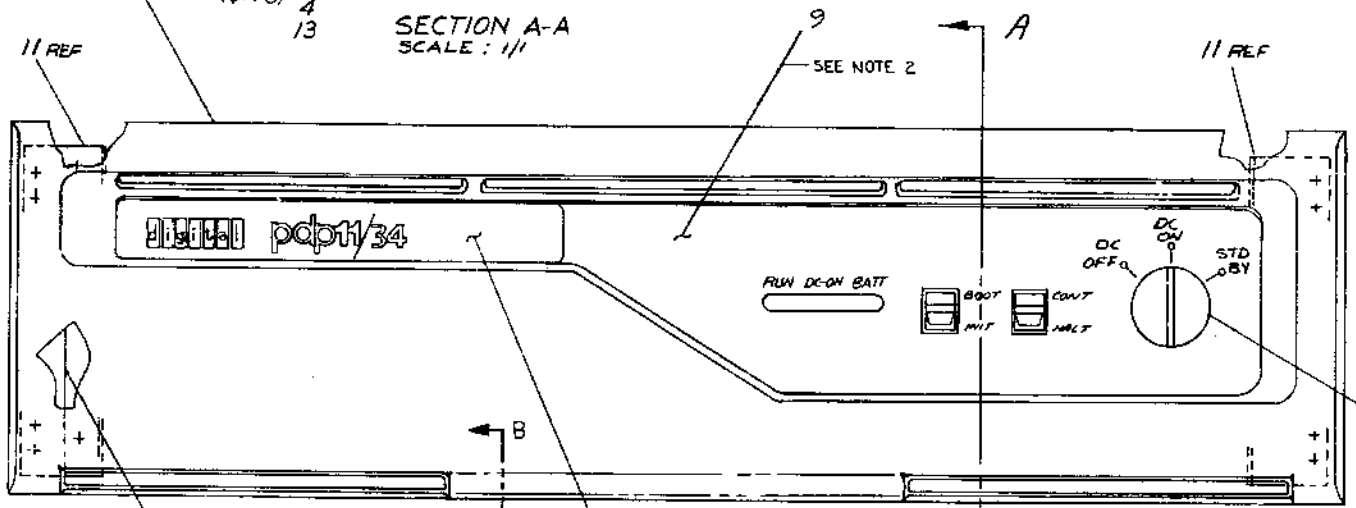
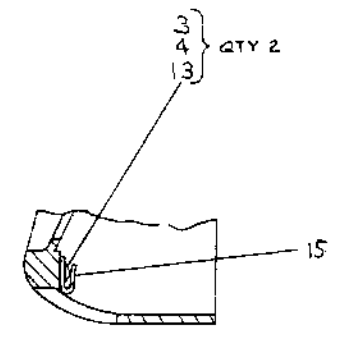
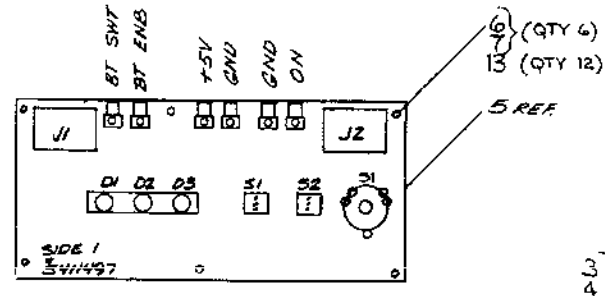
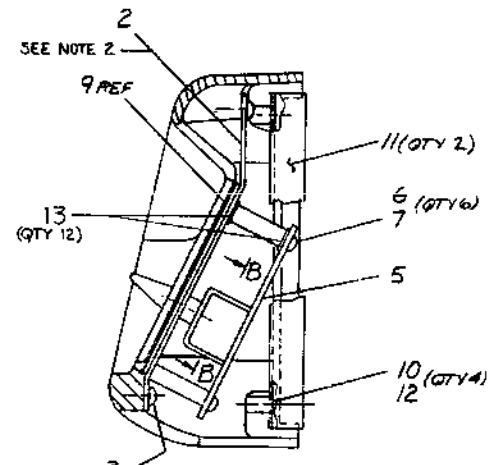
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MPØØØ17

REVISIONS	REV.										
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	DATE	5-77				11/Ø4-AA	11/Ø4-DC	D. HEALY		9/29/75	
						11/Ø4-AB	11/Ø4-DD	CHK'D		DATE	
						11/Ø4-AC	11/Ø4-EC	D. HEALY		9/29/75	TITLE:
						11/Ø4-AD	11/Ø4-ED			FIELD MAINTENANCE PRINT SET	
				11/Ø4-BA		PROJ. ENG.	DATE	KY11-LA			
				11/Ø4-BB		<i>R. Barry</i>	10-22-75				
			11/Ø4-BC		FIELD SERV.	DATE	SIZE	CODE	NUMBER	REV.	
			11/Ø4-BD			10-22-75	B	TC	KY11-LA-1	A	
				SHEET 1 OF 1				DIST.			

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NOTES

- PART NO. 7413657-HO MAY BE USED IF 7415599 IS NOT AVAILABLE.
- PRIOR TO ASSY OF CONTROL PANEL TO SUPPORT PANEL, CLEAN ITEM 2 THOROUGHLY. AFTER CLEANING, APPLY AN EVEN COAT "3M" BRAND AEROSOL ADHESIVE #77N TO ITEM #2 ONLY TO AVOID ATTACKING THE SILK SCREENING. POSITION ITEM #9 IN PLACE AND BOND, APPLYING PRESSURE FOR A PERIOD OF 15-30 SECONDS.
- OVERLAY DECAL TO BE SHIPPED LOOSE PIECE WITH THE UNIT AND ADDED AS SHOWN IF REQUIRED AT F.A.#T.
- ITEM #16 NOT SHOWN.
- ITEMS NO'S 1, 11 AND 16 ARE ADDED AT F.A.#T.



DESCRIPTION	QTY	PART NO.	ITEM NO.
ADHESIVE, SPRAY		9008907	17
BEZEL, COVER PROTECTIVE		D-MD-7415656-00	16
BRACE, SUPPORT PNL		7419008	15
OVERLAY, DECAL 11/34		A-PS-3613353-01	14
WASHER, FLAT, 375x87x.936		9006660	13
SPACER, HEX 1/4x.38 LG		9006802	12
BRKT, FILTER SUPPORT		GND-744762-0-0	11
SCR, PNL FL HD 1/8x3/8x.62		9006400-2	10
PANEL, CONTROL CONSOLE		D-MD-7413502-0-0	9
KNOB, ROTARY SWITCH		1212570	8
SCR PNL HD TAN 1/8x3/8x.58		9006402-1	7
SPACER #6-32x.87		9006861	6
CIRCUIT ETCH BD KYII-LA		D-ES-341197-0-1	5
SEP FILL HD PAN 1/8x3/8x.31		9009799-00	4
WASHER, SPRING LOCK #8		9006690	3
SUPPORT, PANEL		D-MD-7413501-0-0	2
BEZEL 11/04		D-MD-7415599-0-0	1

REV	DESCRIPTION	DATE	BY	CHKD
1	INITIAL LA-001 LA			
2	INITIAL LA-002 B			
3	INITIAL LA-003 C			
4	INITIAL LA-004 D			
5	INITIAL LA-005 E			
6	INITIAL LA-006 F			
7	INITIAL LA-007 G			
8	INITIAL LA-008 H			
9	INITIAL LA-009 I			
10	INITIAL LA-010 J			
11	INITIAL LA-011 K			
12	INITIAL LA-012 L			
13	INITIAL LA-013 M			
14	INITIAL LA-014 N			
15	INITIAL LA-015 O			
16	INITIAL LA-016 P			
17	INITIAL LA-017 Q			
18	INITIAL LA-018 R			
19	INITIAL LA-019 S			
20	INITIAL LA-020 T			
21	INITIAL LA-021 U			
22	INITIAL LA-022 V			
23	INITIAL LA-023 W			
24	INITIAL LA-024 X			
25	INITIAL LA-025 Y			
26	INITIAL LA-026 Z			

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DIMS

SEE PARTS LIST

QUANTITY & VARIATION

ANGLES 10°

STORAGE QUALITY IN MEDIUM

MICROFINISH

FINISH USED ON 11/04

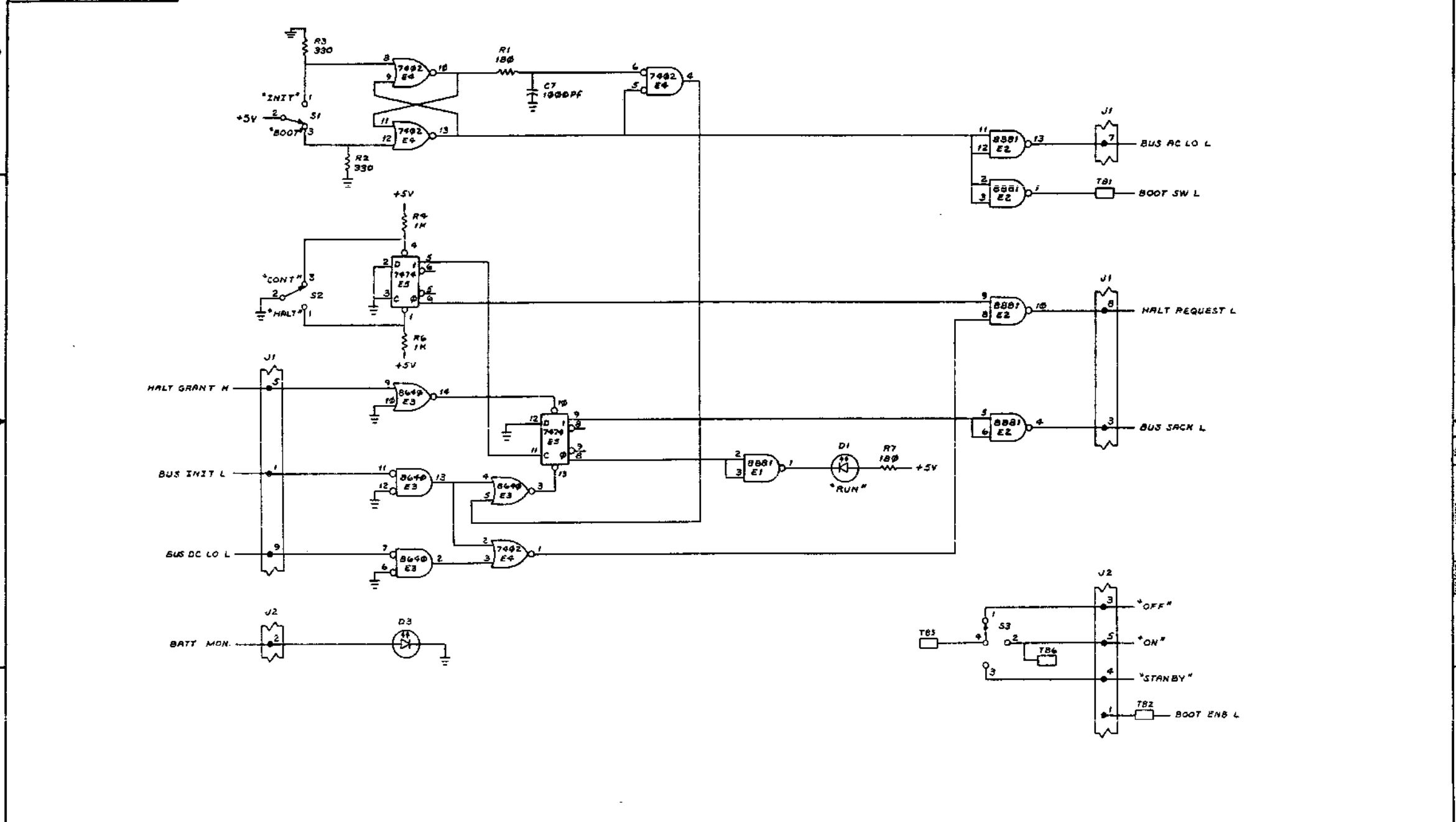
TITLE **CONSOLE, OPER, ASSEMBLY**

SIZE CODE D UA

NUMBER KYII-LA-0

REV. F

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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	KY11-LA	SIZE CODE	DCS	NUMBER	5411497-0-1	REV.	H
SCALE	1:1	SHEET	2 OF 2	DIST.			

~~CUSTOMER PRINT SET INDEX~~

~~THIS IS PRINT SET~~

SEQUENCE

SEQUENCE

NOTE:
FOR FIELD MAINTENANCE
PRINT SET REFER TO
B-TC-KY11-LA-1

UNIT VARIATIONS		PRINT SET
VAR	TITLE	
KY11-LA	OPER TURNKEY CONSOLE	

EN-01062-1A-10-R972-1325

DATE	CHG. NO.	REV
5-76	KY11-LA-1	A
1-77	KY11-LA-2	B
5-77	KY11-LA-3	C
12-77	KY11-LA-4	D
8-78	KY11-LA-5	E

USED ON OPTION/MODEL	DRN.	DATE	TITLE
11/84-AA 11/84-BD	G. MARINI	9/16/75	DRAWING DIRECTORY KY11-LA
11/84-AB 11/84-DC	CHK'D. D. HEALY	DATE 9/30/75	
11/84-AC 11/84-DD	PROJ ENG. <i>R. Barry</i>	DATE 10-22-75	
11/84-AD 11/84-EC	<i>R.K. Peterson</i>	DATE 10/22/75	
11/84-BA 11/84-ED	FIELD CONV.	DATE	
11/84-BB			
11/84-BC			
SHEET 1 OF 2			

SIZE	CODE	NUMBER	REV
B	DD	KY11-LA	E
DIST			

ELECTRICAL (SECTION 1)					MECHANICAL (SECTION 2)						
CUSTOMER PRINT SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	CUSTOMER PRINT SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION
	1	D-UA-KY11-LA-Ø		1	CONSOLE OPER ASSY		1	D-UA-KY11-LA-Ø		1	CONSOLE OPER ASSY
								D-MD-7413501-0-0		1	SUPPORT, PANEL
								C-MD-7419008		1	BRACE, SUPPORT PANEL
							2	D-IA-7413502-0-0		1	PANEL CONTROL CONSOLE
								D-SS-7413502-0-1		1	SILK SCREEN LIGHT GRAY
								D-SS-7413502-0-2		1	SILK SCREEN DARK GRAY
	3	D-CS-5411497-0-1		2	CIRCUIT ETCH BOARD KY11-LA		3	D-CS-5411497-0-1		2	CIRCUIT ETCH BOARD KY11-LA
								K-CO-5411497-0-4			X-Y COORDINATE HOLE LOCATION
								D-AH-5411497-0-5			ASSY/DRILLING HOLE LAYOUT
								B-MH-5411497-0-6			MODULE ECO HISTORY
								5011496			ETCH CIRCUIT BOARD
								C-MD-7413505-0-0		1	PLATE, SW MTG

CUSTOMER PRINT SET CODES
 Y = PRINT OF DOCUMENT INCLUDED IN PRINT SET
 C = INCLUDES ALL PRINTS INDICATED ON DOCUMENT
 S = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED

TITLE: DRAWING DIRECTORY KY11-LA
 SHEET 2 OF 2
 SIZE CODE: 3 DD
 NUMBER: KY11-LA
 REV: E

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS				QUANTITY/VARIATION													
PARTS LIST				MS11-E	MS11-EP	MS11-F	MS11-FP	MS11-J	MS11-JP								
MADE BY	D. HEALY	CHECKED	D. HEALY	SECTION													
DATE	10/6/75	DATE	10/6/75	1													
ENG	R. BARRY R Barry	PRODR	R. Barry	ISSUED SECT.													
DATE	10-27-75	DATE	10/27/75	1													
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION		MS11-E	MS11-EP	MS11-F	MS11-FP	MS11-J	MS11-JP								
	D-CS-M7847-AA-1	UNIBUS MOS MEM		1	-	-	-	-	-								
	D-CS-M7847-AB-1	UNIBUS MOS MEM		-	1	-	-	-	-								
	D-CS-M7847-AC-1	UNIBUS MOS MEM		-	-	1	-	-	-								
	D-CS-M7847-AD-1	UNIBUS MOS MEM		-	-	-	1	-	-								
	D-CS-M7847-AH-1	UNIBUS MOS MEM		-	-	-	-	1	-								
	D-CS-M7847-AJ-1	UNIBUS MOS MEM		-	-	-	-	-	1								
TITLE				ASSY NO.		SIZE CODE		NUMBER		REV.		ECO NO.					
MOS RAM (MS11-E)				NONE		A PL		MS11-E-0		A		MS11-E-00001					
SHEET 1 OF 1				DIST.													

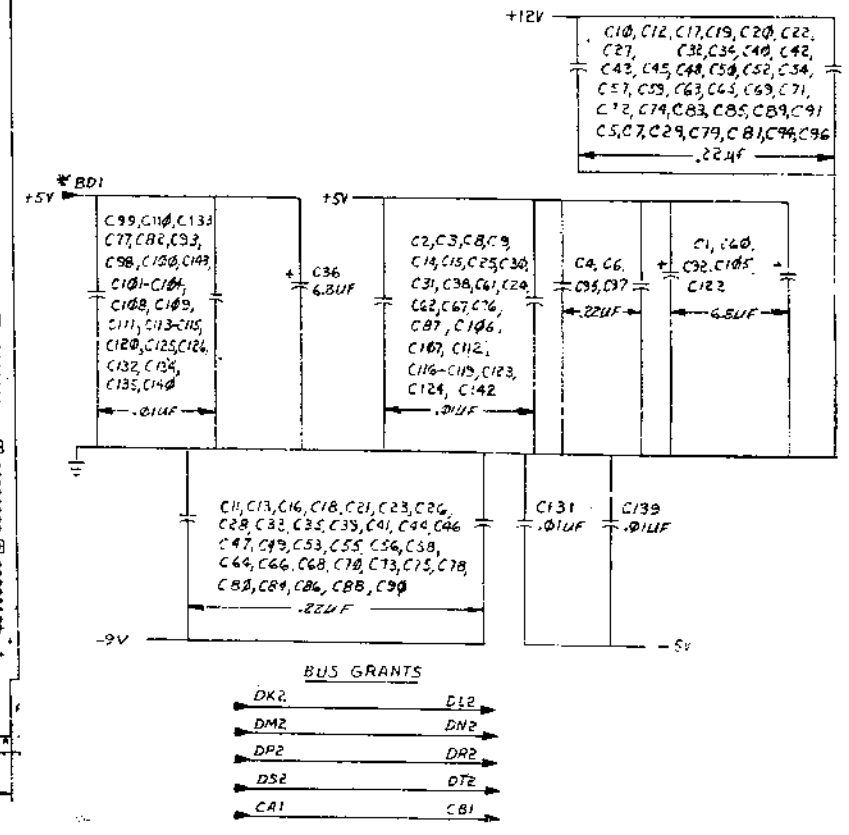
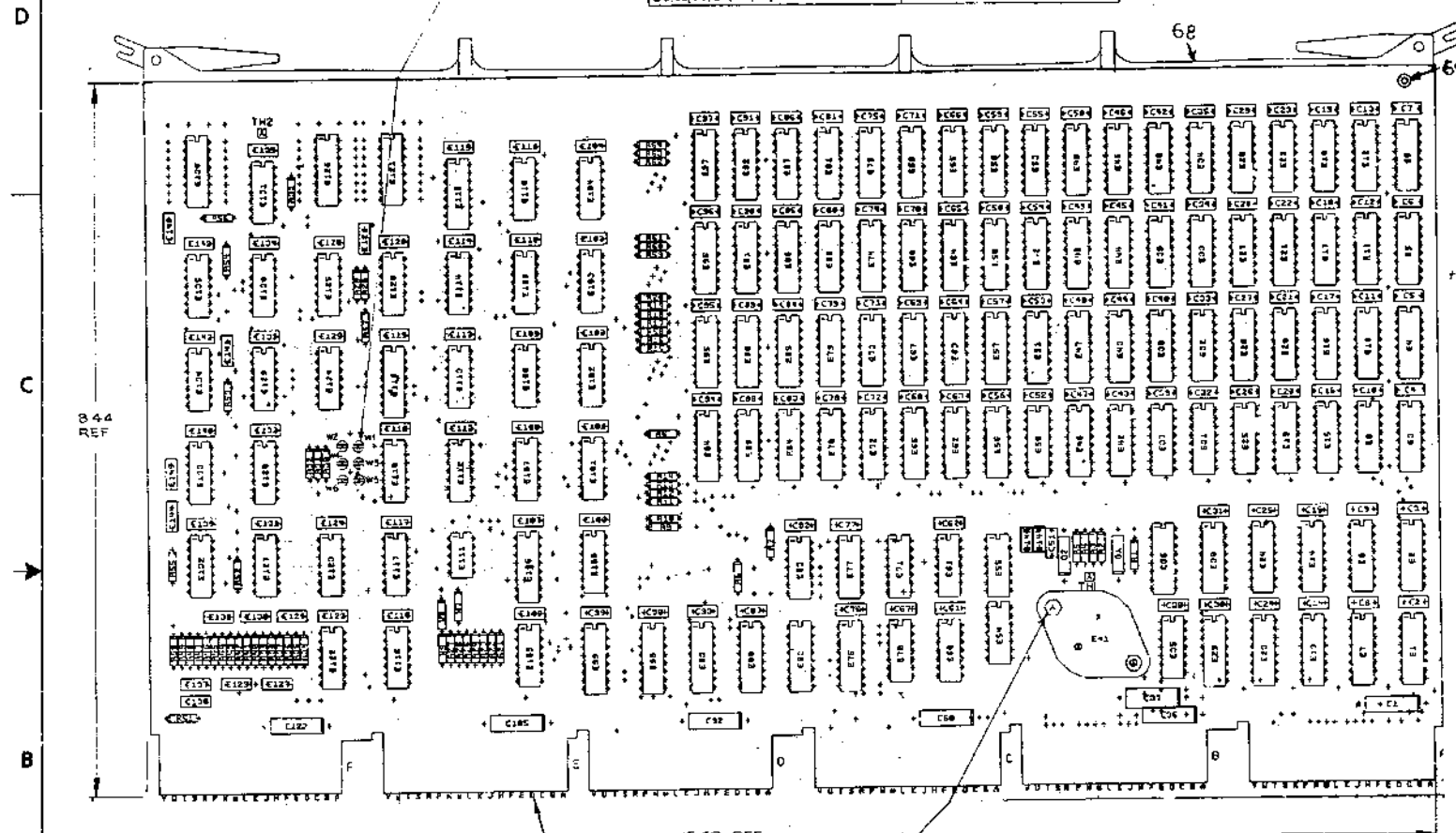
DEC FORM DEC 16-(325)-1031-N870
DRA 110

8 7 6 5 4 3 2 1

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NOTES:
 1. THERMAL COMPOUND (ITEM NO. 72) TO BE PLACED UNDER E41.
 2. JUMPERS TO BE CONNECTED FOR EACH VARIATION AS FOLLOWS:
 2.(CONT) CONNECTIONS TO BE MADE USING BUS WIRE (ITEM NO. 73).

BA, CA, DA, EA, BA, BB, CB, DB, EB, YA 4 YB	WB TO W4
BC, KC, DC, EC, BD, CD, DD, ED, YC 4 YD	W1 TO W2 & W3 TO W4
BE, CE, DE, EE, BF, CF, DF, EF, BH, CH, DH, EH, BU, CU, DU, EU, YE, YF, YH 4 YJ	W1 TO W2, W3 TO W4, & W5 TO W6



	12	5	
7475	12	5	
745153	8	16	
75107	7	14	13
74174	8	16	
8641	8	16	
8648	1	8	
7485	12	5	
IC TYP.	GND	+5V	-5V

GND AND +5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE.

J. MANTON 3-9-78

1. M7847-00001 K 1/12

2. M7847-00001 K 1/12

3. M7847-00001 K 1/12

4. M7847-00001 K 1/12

5. M7847-00001 K 1/12

6. M7847-00001 K 1/12

7. M7847-00001 K 1/12

8. M7847-00001 K 1/12

9. M7847-00001 K 1/12

10. M7847-00001 K 1/12

11. M7847-00001 K 1/12

12. M7847-00001 K 1/12

13. M7847-00001 K 1/12

14. M7847-00001 K 1/12

15. M7847-00001 K 1/12

16. M7847-00001 K 1/12

17. M7847-00001 K 1/12

18. M7847-00001 K 1/12

19. M7847-00001 K 1/12

20. M7847-00001 K 1/12

21. M7847-00001 K 1/12

22. M7847-00001 K 1/12

23. M7847-00001 K 1/12

24. M7847-00001 K 1/12

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26. M7847-00001 K 1/12

27. M7847-00001 K 1/12

28. M7847-00001 K 1/12

29. M7847-00001 K 1/12

30. M7847-00001 K 1/12

31. M7847-00001 K 1/12

32. M7847-00001 K 1/12

33. M7847-00001 K 1/12

34. M7847-00001 K 1/12

35. M7847-00001 K 1/12

36. M7847-00001 K 1/12

37. M7847-00001 K 1/12

38. M7847-00001 K 1/12

39. M7847-00001 K 1/12

40. M7847-00001 K 1/12

FOR PARTS LIST REFER TO SHEETS 1 & 3

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.

ETCH BOARD REV. E PARTS LIST

DATE: 9/14/75
 CHECKED: [Signature] DATE: 6/18/75
 ENG: [Signature] DATE: 6/11/75
 PROD. ENG: [Signature] DATE: 6/11/75
 PROD. DATE: 6/11/75
 NEXT HIGHER ASSY: [Signature]

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

SCALE: [] SHEET 1 OF 16

digital

TITLE: UNIBUS MOS MEMORY

SHEET CODE: DCS M7847-0-1 NUMBER: REV. K

8 7 6 5 4 3 2 1

1-10-88 2

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NOTES

- DEC PART NO. 1001610-00 IS AN ACCEPTABLE REPLACEMENT FOR DEC PART NO. 1001610-01 (ITEM 14)
- VARIATIONS YA THRU YJ

VARIATIONS BA THRU BU

VARIATIONS CA THRU CH

VARIATIONS DA THRU DJ

VARIATIONS EA THRU EJ

VARIATIONS FA THRU FL

VARIATIONS GA THRU GL

VARIATIONS HA THRU HU

VARIATIONS IA THRU IU

VARIATIONS JA THRU JU

QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1	1	1	1	1	1	1	1	1		DATA BASE TAPE	5011215-0-0	1
1	1	1	1	1	1	1	1	1		DATA BASE TAPE	10047-YA-0	2
1	1	1	1	1	1	1	1	1		DATA BASE TAPE	10047-YB-0	3
1	1	1	1	1	1	1	1	1		DATA BASE TAPE	10047-YC-0	4
1	1	1	1	1	1	1	1	1		DATA BASE TAPE	10047-YD-0	5
1	1	1	1	1	1	1	1	1		DATA BASE TAPE	10047-YE-0	6
1	1	1	1	1	1	1	1	1		DATA BASE TAPE	10047-YF-0	7
1	1	1	1	1	1	1	1	1		DATA BASE TAPE	10047-YG-0	8
1	1	1	1	1	1	1	1	1		DATA BASE TAPE	10047-YH-0	9
1	1	1	1	1	1	1	1	1		DATA BASE TAPE	10047-YI-0	10
1	1	1	1	1	1	1	1	1		DATA BASE TAPE	10047-YJ-0	11
REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	UNIT ASSEMBLY	D-10A-107847-0-0	10
REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	DRILL & ETCH DWG	D-10A-101215-0-0	11
REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	MODULE ECO HISTORY	9-4A-107847-0-6	12
1	1	1	1	1	1	1	1	1	1	ETCHED CIRCUIT BOARD	5011215	13
57	57	57	57	57	57	57	57	57		CAP .1UF. 16V. 20% DISC	1001610-01 (SEE NOTE 1)	14
-	-	-	-	37	37	37	37	37		CAP 22PF. 50V CER	1010224-01	15
6	6	6	6	6	6	6	6	6		CAP 5.0UF. 35V. 10% S. TANT	1005306-00	16
1	1	1	1	1	1	1	1	1		CAP 82PF. 100V. 5% DM	1000010-00	17
4	4	4	4	4	4	4	4	4		CAP 220PF. 100V. 1% DM	1012121-00	18
2	2	2	2	2	2	2	2	2		CAP 220PF. 100V. 5% DM	1000021-00	19
2	2	2	2	2	2	2	2	2		CAP 560PF. 100V. 5% DM	1000025-00	20
1	1	1	1	1	1	1	1	1		SEE NOTE #2		21
1	1	1	1	1	1	1	1	1		DIODE. ZENER INT51A. 5.1V. 5%	1110994-00	22
21	21	21	21	21	21	21	21	21		RES 1K. 1/4W. 5% CC	1302124-00	23
16	16	16	16	16	16	16	16	16		RES 1K. 1/4W. 5% CC	1300365-00	24
5	5	5	5	5	5	5	5	5		RES 560. 1/4W. 5% CC	1301890-00	25
1	1	1	1	1	1	1	1	1		SEE NOTE #2		26
7	7	7	7	7	7	7	7	7		RES 20K. 1/4W. 5% CC	1300308-00	27
1	1	1	1	1	1	1	1	1		RES 10K. 1/4W. 5% CC	1300797-00	28
1	1	1	1	1	1	1	1	1		RES 30K. 1/4W. 5% CC	1302284-00	29
1	7	7	7	7	7	7	7	7		RES 1K. 1/4W. 1% MF	1301114-00	30
1	1	1	1	1	1	1	1	1		RES 68K. 1/4W. 1% MF	1300870-00	31
3	3	3	3	3	3	3	3	3		RES 4.7K. 1/4W. 5% CC	1300947-00	32
2	2	2	2	2	2	2	2	2		RES 100. 1/4W. 5% CC	1300229-00	33
1	1	1	1	1	1	1	1	1		RES 1.5K. 1/4W. 1% MF	1312480-00	34
1	1	1	1	1	1	1	1	1		RES 1.0K. 1/4W. 1% MF	1312479-00	35
1	1	1	1	1	1	1	1	1		RES 2.7K. 1/4W. 5% CC	1300426-00	36
1	1	1	1	1	1	1	1	1		RES 6.8K. 1/4W. 5% CC	1301423-00	37
1	1	1	1	1	1	1	1	1		RES 12K. 1/4W. 5% CC	1300488-00	38
1	1	1	1	1	1	1	1	1		RES 4.3K. 1/4W. 5% CC	1302289-00	39
6	6	6	6	6	6	6	6	6		IC 74174	1910652-00	40
5	5	5	5	5	5	5	5	5		IC 8641	1911513-00	41

REVISIONS		
CHK	CHANGE NO.	REV

TITLE UNIBUS MOS MEMORY

SIZE CODE DCS NUMBER N7847-0-1

SCALE SHEET 2 OF 16

DIST. 1

158

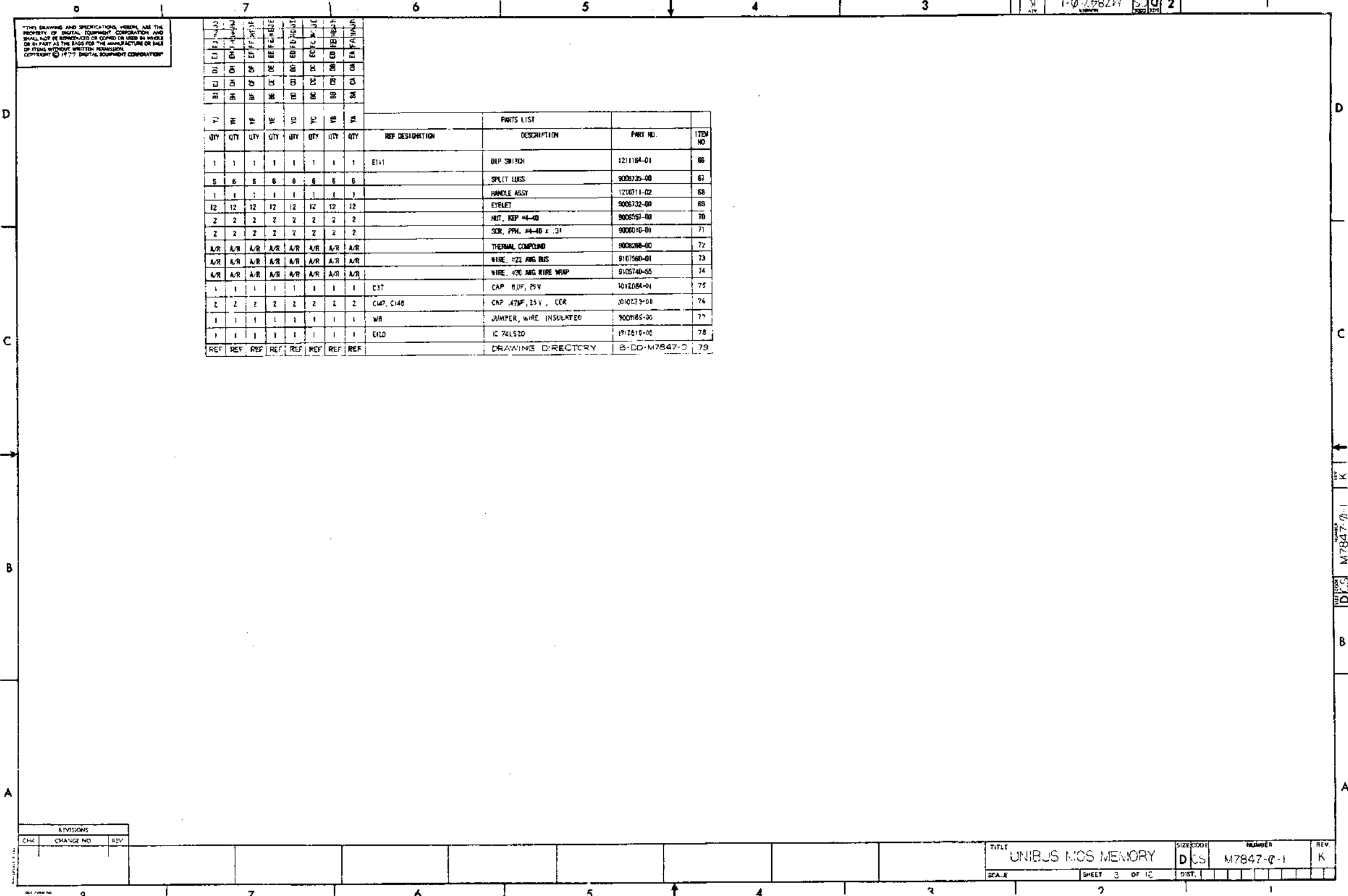
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EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
DA	DA	DA	DA	DA	DA	DA	DA	DA	DA	DA	DA	DA	DA	DA	DA	DA	DA
CA	CA	CA	CA	CA	CA	CA	CA	CA	CA	CA	CA	CA	CA	CA	CA	CA	CA
BA	BA	BA	BA	BA	BA	BA	BA	BA	BA	BA	BA	BA	BA	BA	BA	BA	BA

QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1	1	1	1	1	1	1	1	E11	DIP SWITCH	1211184-01	66
6	6	6	6	6	6	6	6		SPLIT LUGS	9008735-00	67
1	1	1	1	1	1	1	1		HANDLE ASSY	1210711-02	68
12	12	12	12	12	12	12	12		EYELET	9006732-00	68
2	2	2	2	2	2	2	2		MKT. REP #4-40	9005557-00	70
2	2	2	2	2	2	2	2		SCR. PPH. #4-40 x .31	9006010-01	71
A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R		THERMAL COMPOUND	9006288-00	72
A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R		WIRE .22 AWG BUS	9107560-01	73
A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R		WIRE .400 AWG WIRE WRAP	9105740-55	74
1	1	1	1	1	1	1	1	C37	CAP .01UF, 25V	1012084-01	75
2	2	2	2	2	2	2	2	C146	CAP .47UF, 25V, CER	1010279-00	76
1	1	1	1	1	1	1	1	WB	JUMPER, WIRE INSULATED	9009185-00	77
1	1	1	1	1	1	1	1	E10	IC 74LS20	1912610-00	78
REF	REF	REF	REF	REF	REF	REF	REF		DRAWING DIRECTORY	B-DD-M7847-0	79

REVISIONS		
CHK	CHANGE NO.	REV.

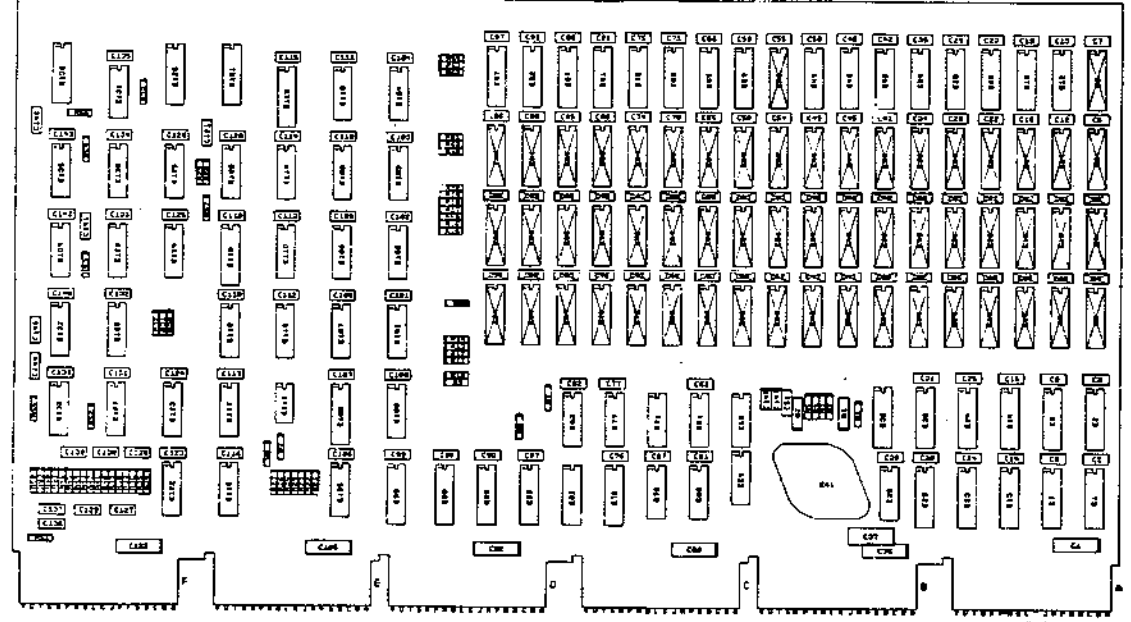
TITLE	UNIBUS MOS MEMORY	SIZE/CODE	D/CS	NUMBER	M7847-0-1	REV.	K
SCALE	SHEET 3 OF 10		DIST.				



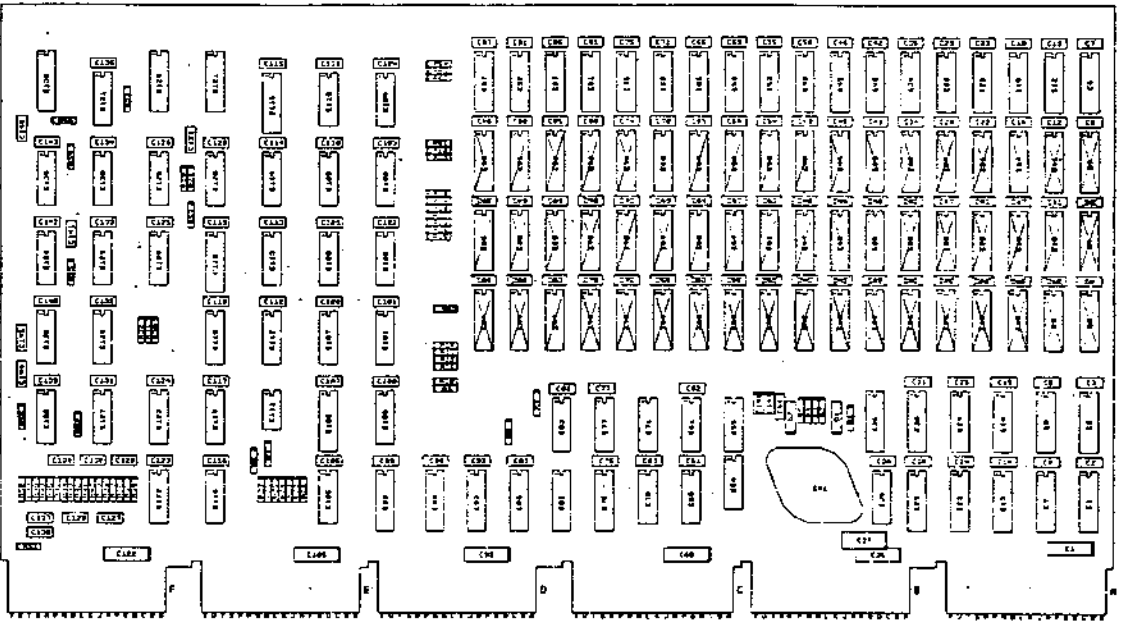
DCS M7847-0-1 K

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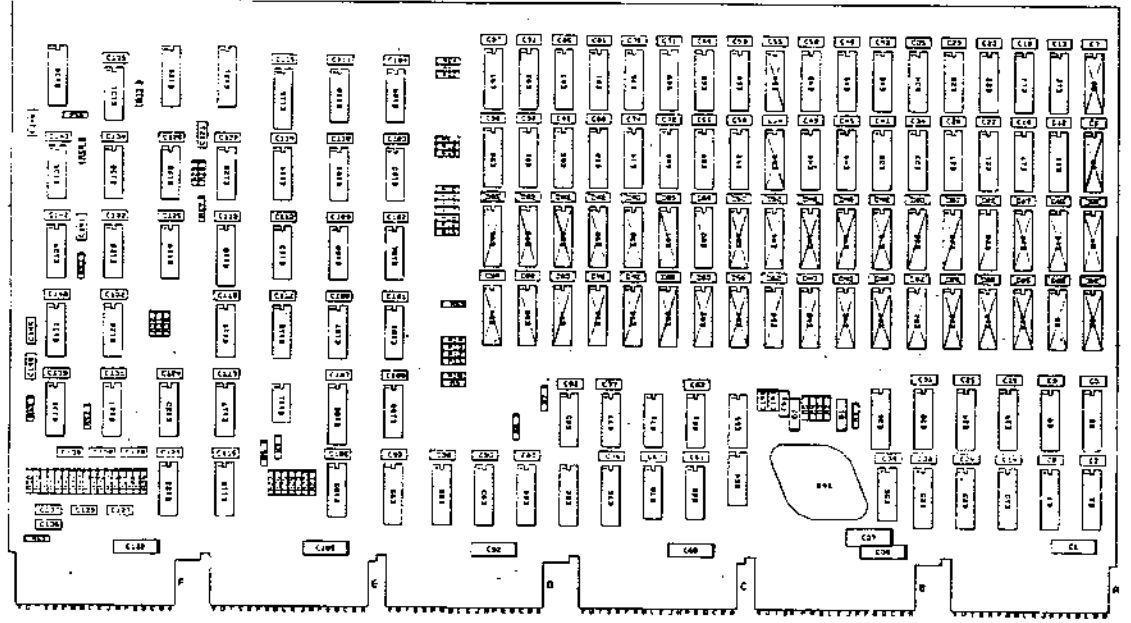
NOTE:
THESE OVERLAYS ONLY TO INDICATE POSITIONS FOR 4K MOS MEMORY IC'S & .22 UF CAPS



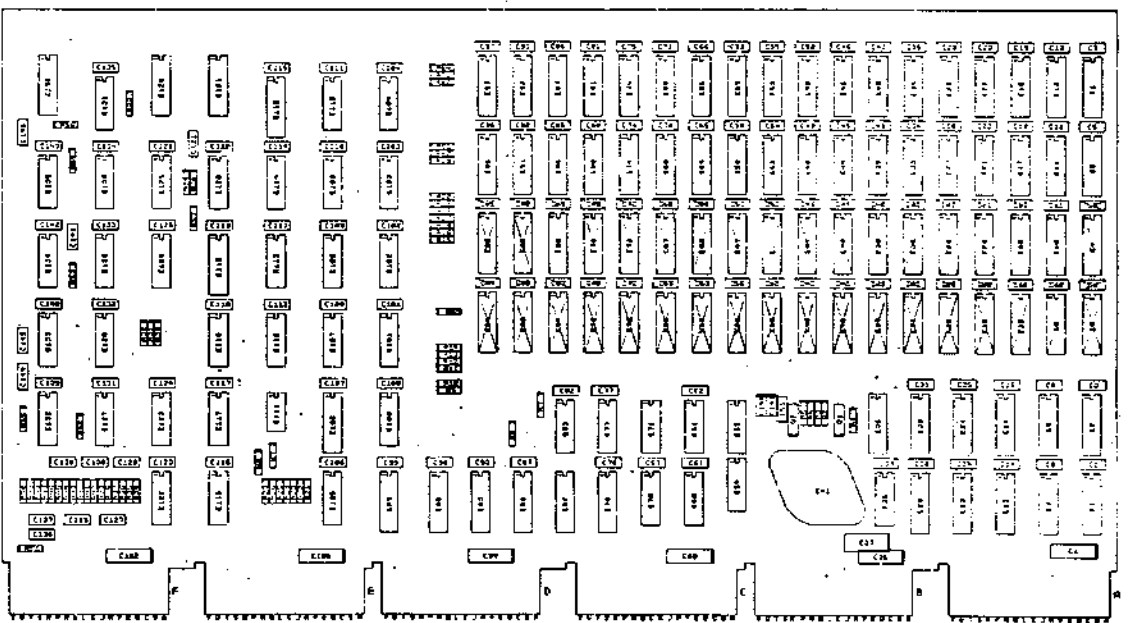
-YA-BA-CA-DA, -EA-FA-HA-JA.



-YB-BB-CB-DB, -EB-FB-JB-HB.



-YC-BC-CC-DC, -EC-FC-HC-JC.



-YO-BO-CO-DO, -EO-FO-HO-JO.

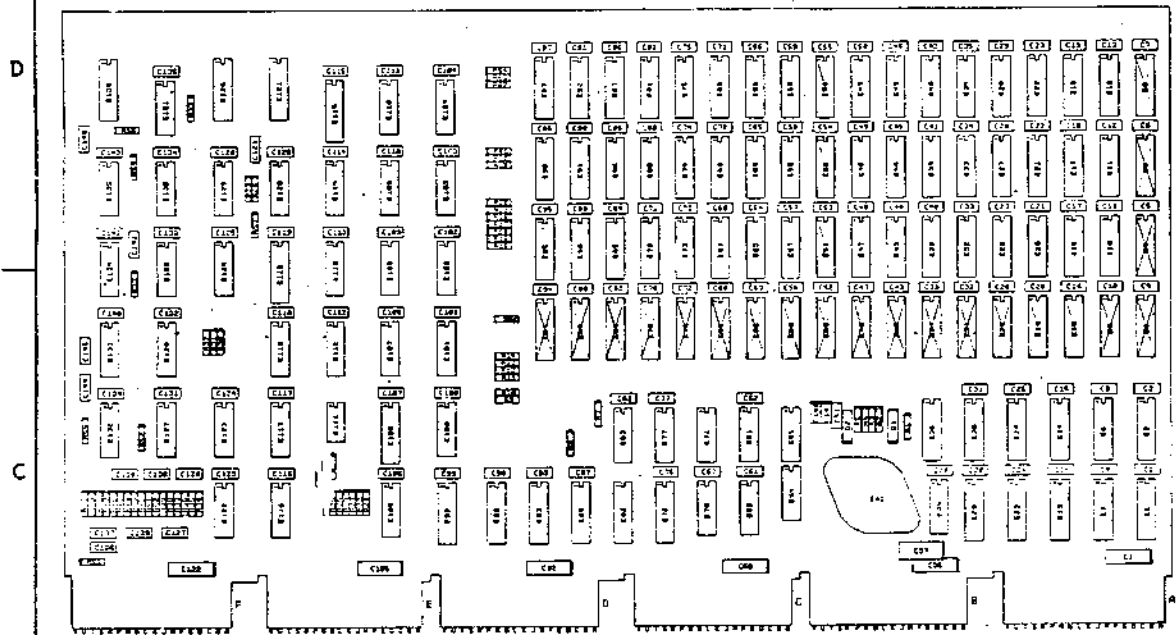
REVISIONS		
CHK	CHANGE NO	REV.

TITLE	DCS M7847-0-1 K	SIZE CODE	NUMBER	REV.
UNIBUS MOS MEMORY				K
SCALE	SHEET 4 OF 14	DWG.		

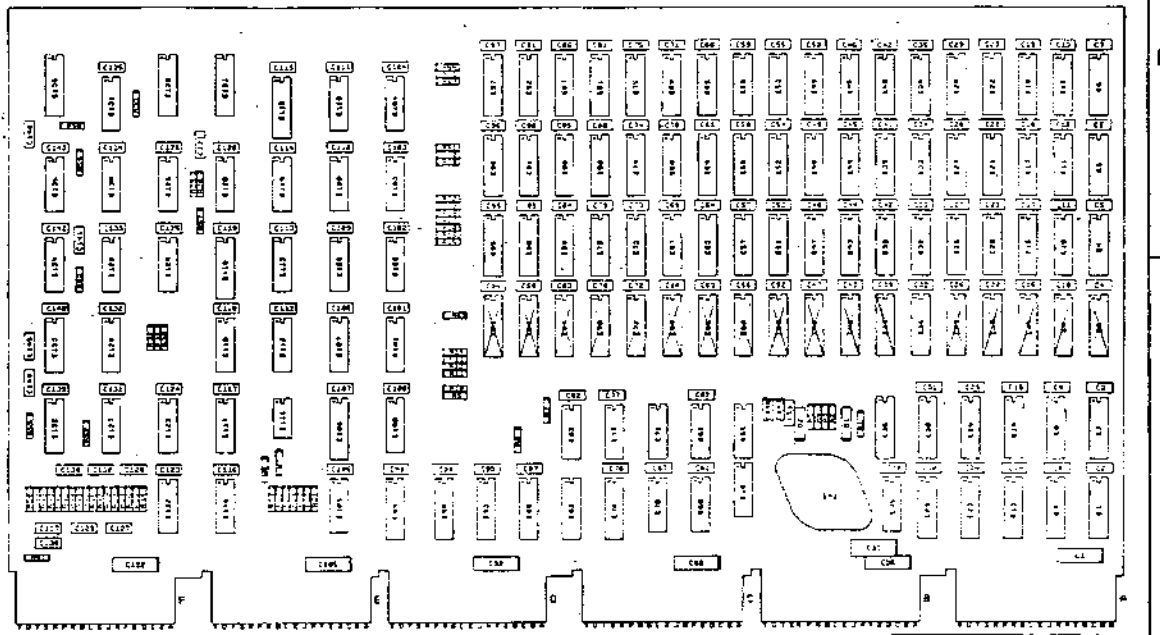
8 7 6 5 4 3 2 1

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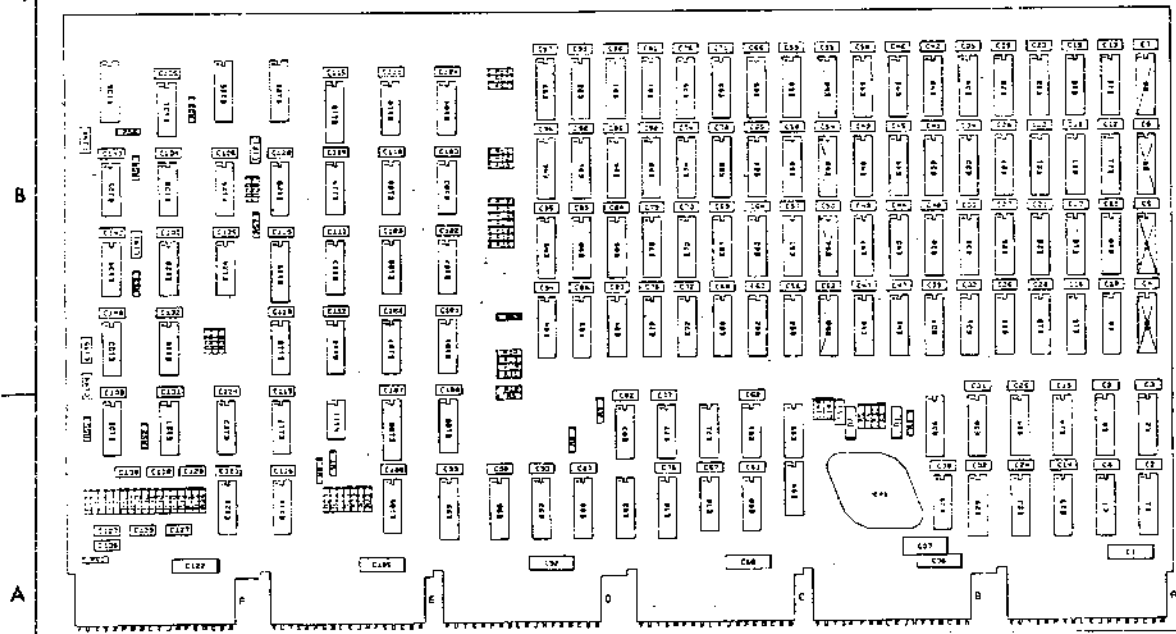
NOTE: THESE OVERLAYS ONLY TO INDICATE POSITIONS FOR 4K MOS MEMORY IC'S AND .22 U.F. CAPS.



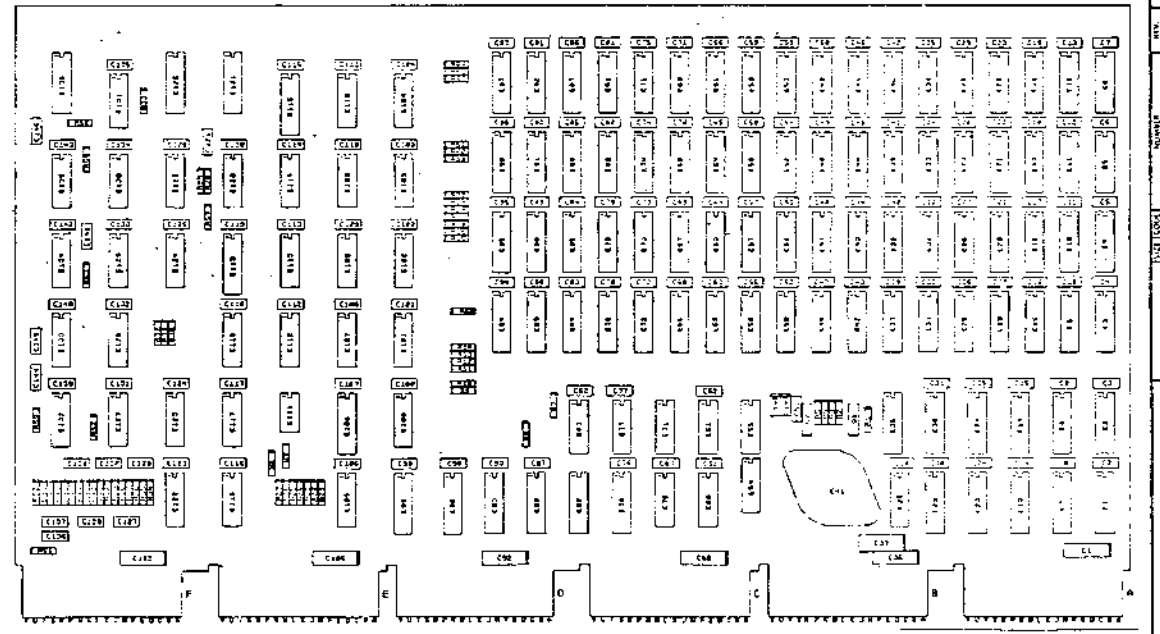
-YE, -BE, -CE, -DE, -EE, -FE, -HE, -JE



-YF, -BF, -CF, -DF, -EF, -FF, -HF, -JF



-YH, -BH, -CH, -DH, -EH, -FH, -GH, -JH



-YJ, -BJ, -CJ, -DJ, -EJ, -FJ, -HJ, -JJ

REVISIONS		
CHK	CHANGE NO	REV.

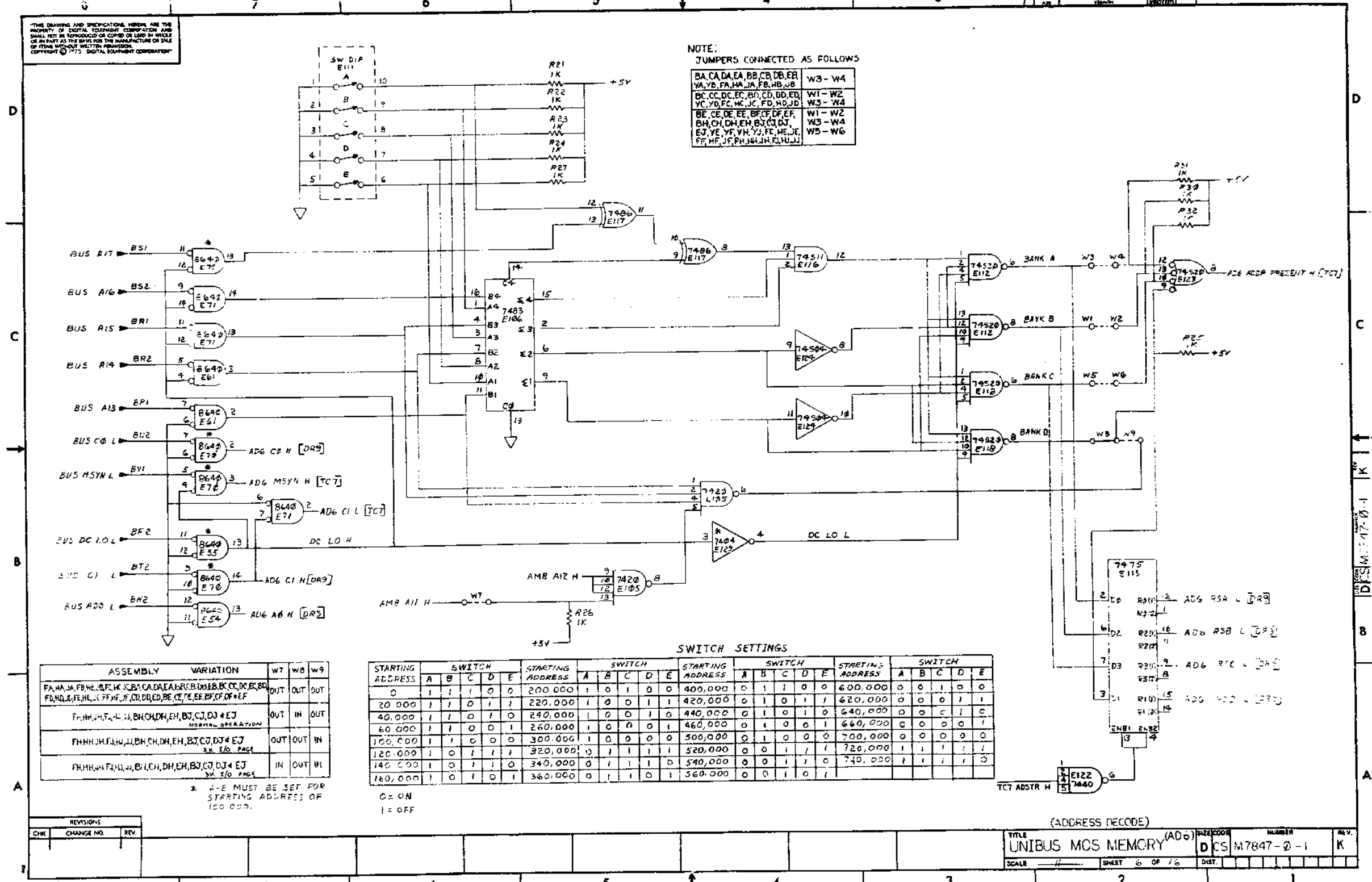
TITLE	SIZE CODE	NUMBER	REV.
UNIBUS MOS MEMORY	D	S.M7847-0-1	K
SCALE	SHEET 5 OF 12	DIST.	

8 7 6 5 4 3 2 1

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NOTE:
JUMPERS CONNECTED AS FOLLOWS

BA, CA, DA, EA, BB, CB, DB, EB	W3 - W4
YA, YB, FA, HA, JA, FB, HB, JB	W1 - W2
BC, CC, DC, EC, BD, CD, DD, ED	W3 - W4
YC, YD, FC, HC, JC, FD, HD, JD	W1 - W2
BE, CE, DE, EE, BF, CF, DF, EF	W3 - W4
BH, CH, DH, EH, BJ, CJ, DJ	W5 - W6
EJ, YE, YF, YH, YJ, FE, HE, JE	W3 - W4
FF, HF, JF, FH, JH, JF, HJ, JJ	W5 - W6

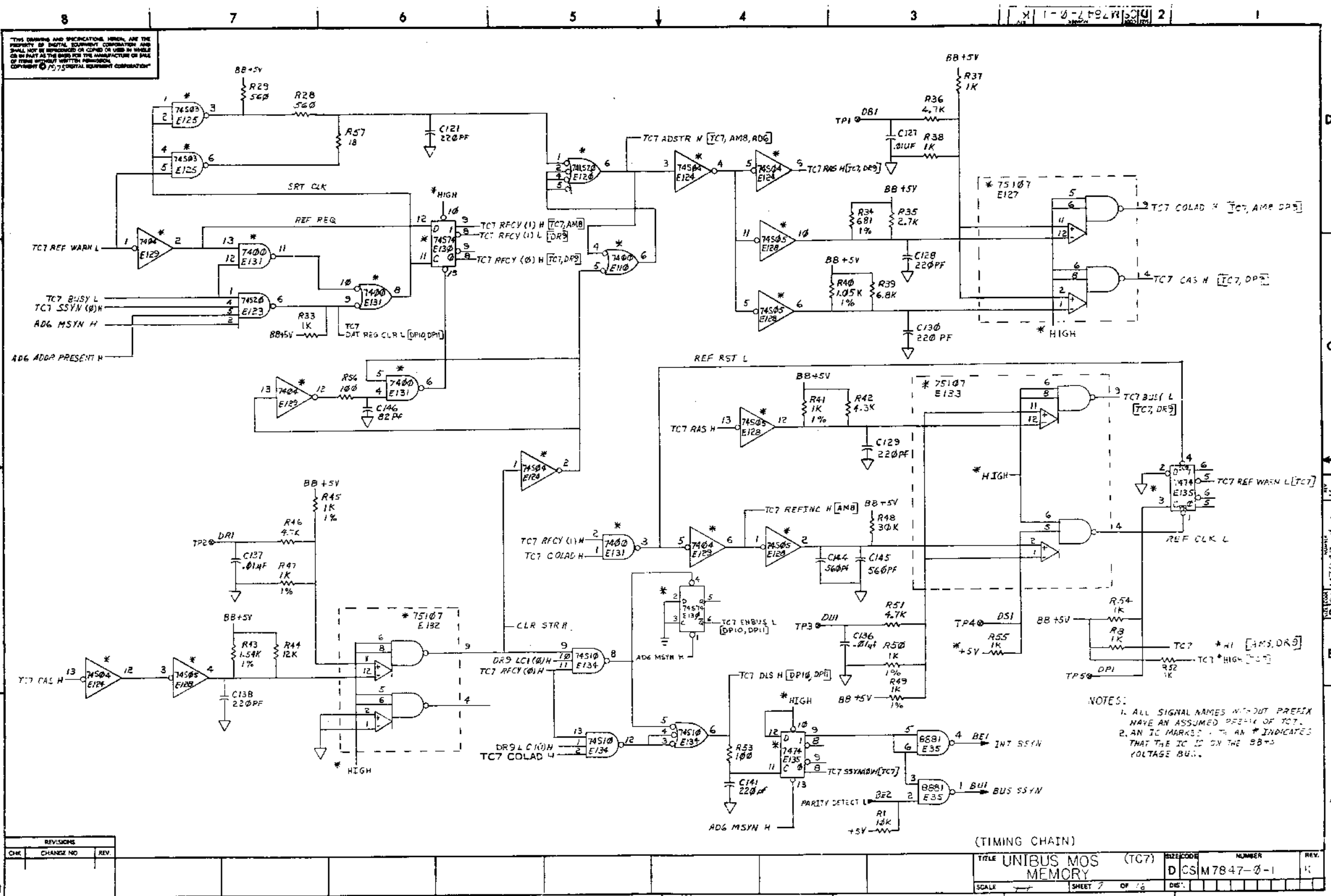


ASSEMBLY	VARIATION	WT	WB	W9
FA, HA, JA, FB, HB, JB, FC, HC, JC, CA, DA, EA, BB, CB, DB, EB, BC, CC, DC, EC, BD, CD, DD, ED, YC, YD, FC, HC, JC, FD, HD, JD		OUT	OUT	OUT
FA, HA, JA, FB, HB, JB, FC, HC, JC, CA, DA, EA, BB, CB, DB, EB, BC, CC, DC, EC, BD, CD, DD, ED, YC, YD, FC, HC, JC, FD, HD, JD		OUT	IN	OUT
FA, HA, JA, FB, HB, JB, FC, HC, JC, CA, DA, EA, BB, CB, DB, EB, BC, CC, DC, EC, BD, CD, DD, ED, YC, YD, FC, HC, JC, FD, HD, JD		OUT	OUT	IN
FA, HA, JA, FB, HB, JB, FC, HC, JC, CA, DA, EA, BB, CB, DB, EB, BC, CC, DC, EC, BD, CD, DD, ED, YC, YD, FC, HC, JC, FD, HD, JD		IN	OUT	W1

STARTING ADDRESS	SWITCH					STARTING ADDRESS	SWITCH					STARTING ADDRESS	SWITCH										
	A	B	C	D	E		A	B	C	D	E		A	B	C	D	E						
0	1	1	1	0	0	200,000	1	0	1	0	0	400,000	0	1	1	0	0	600,000	0	0	1	0	0
20,000	1	1	0	1	0	220,000	1	0	0	1	1	420,000	0	1	0	1	1	620,000	0	0	0	1	1
40,000	1	1	0	1	0	240,000	1	0	0	1	0	440,000	0	1	0	1	0	640,000	0	0	0	1	0
60,000	1	1	0	0	1	260,000	1	0	0	0	1	460,000	0	1	0	0	1	660,000	0	0	0	0	1
80,000	1	1	0	0	0	280,000	1	0	0	0	0	480,000	0	1	0	0	0	680,000	0	0	0	0	0
100,000	1	0	1	1	0	300,000	0	1	1	1	1	500,000	0	0	1	1	1	700,000	1	1	1	1	1
120,000	1	0	1	1	0	320,000	0	1	1	1	0	520,000	0	0	1	1	1	720,000	1	1	1	1	0
140,000	1	0	1	1	0	340,000	0	1	1	1	0	540,000	0	0	1	1	0	740,000	1	1	1	1	0
160,000	1	0	1	0	1	360,000	0	1	1	0	1	560,000	0	0	1	0	1	760,000	1	1	1	0	0

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		UNIBUS MOS MEMORY (AD6)		SIZE/DOOR		NUMBER		REV.	
SCALE		SHEET 6 OF 16		D CS		M7847-0-1		K	



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- NOTES:
1. ALL SIGNAL NAMES WITHOUT PREFIX HAVE AN ASSUMED PREFIX OF TCT.
 2. AN IC MARKED WITH AN * INDICATES THAT THE IC IS ON THE BB+5 VOLTAGE BUS.

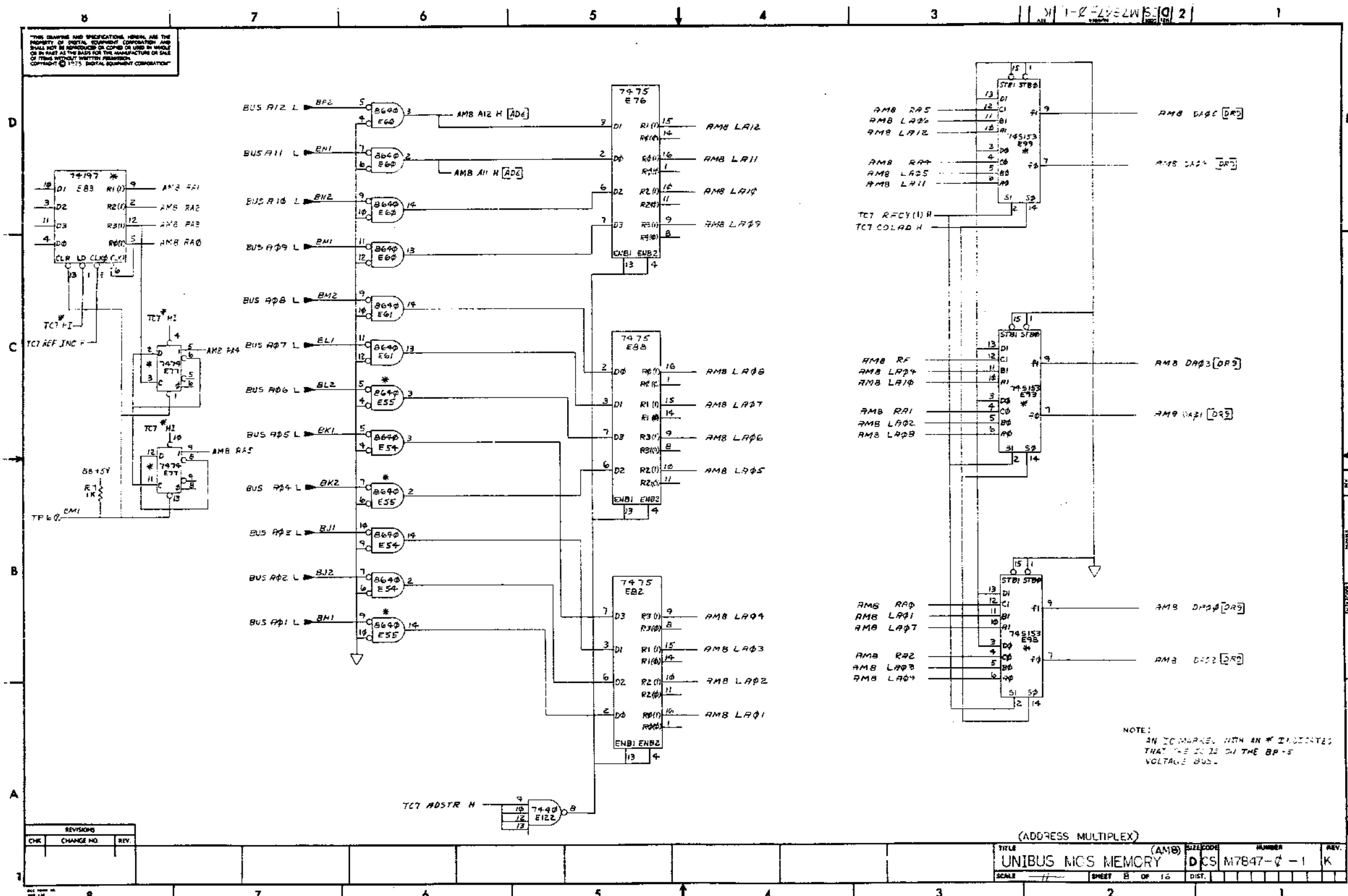
(TIMING CHAIN)

TITLE	UNIBUS MOS (TCT) MEMORY	SIZE/CODE	D CSM7847-0-1	NUMBER	1	REV.	1
SCALE		SHEET	7	OF	16	DIS.	

REVISIONS		
CHK	CHANGE NO	REV.

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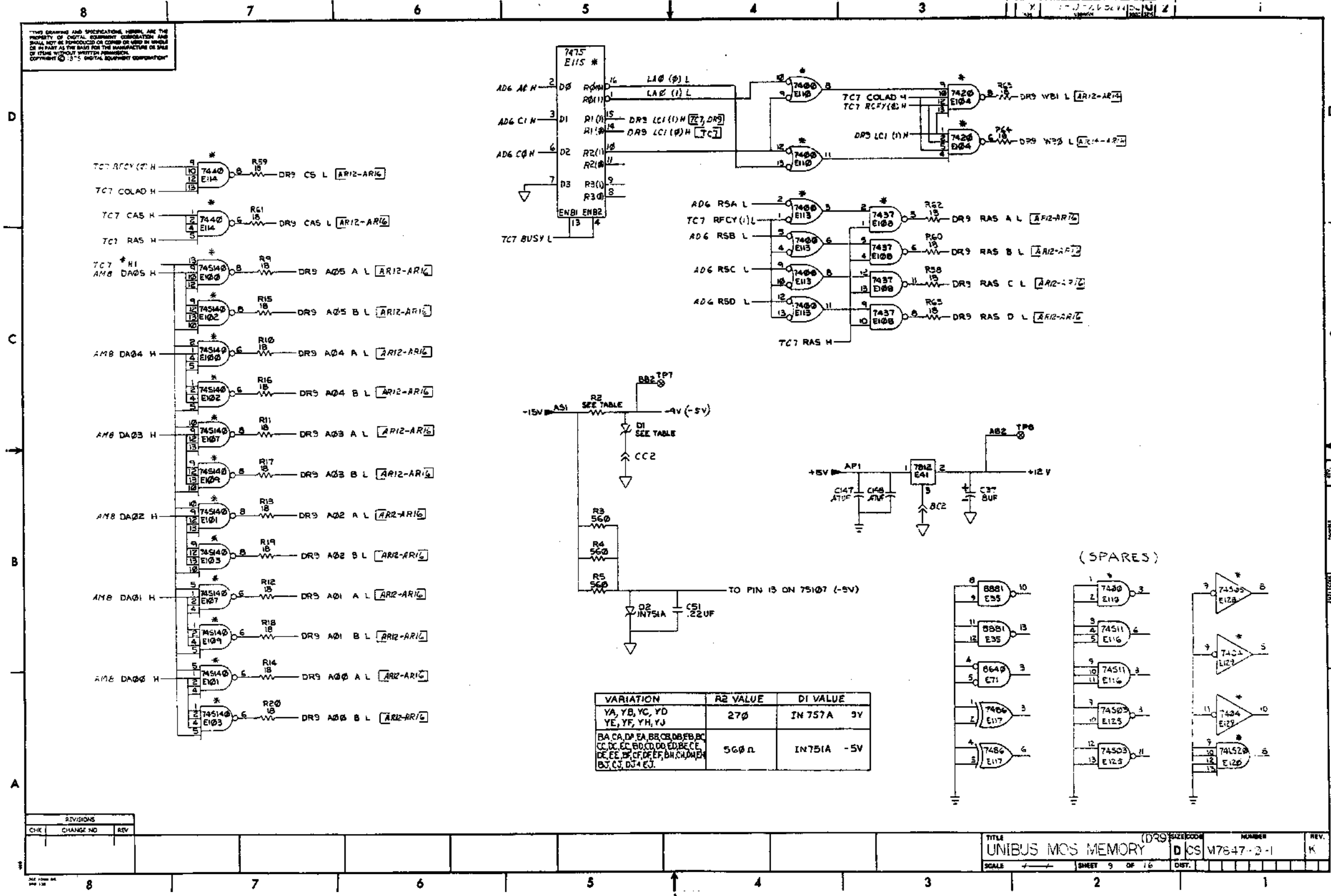


NOTE:
 AN * MARKED WITH AN * INDICATES THAT THE SIGNAL IS ON THE BP-5 VOLTAGE BUS.

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		NUMBER		REV.	
UNIBUS MCS MEMORY (AMB)		DCS M7847-1		K	
SCALE	SHEET	OF	DIST.		

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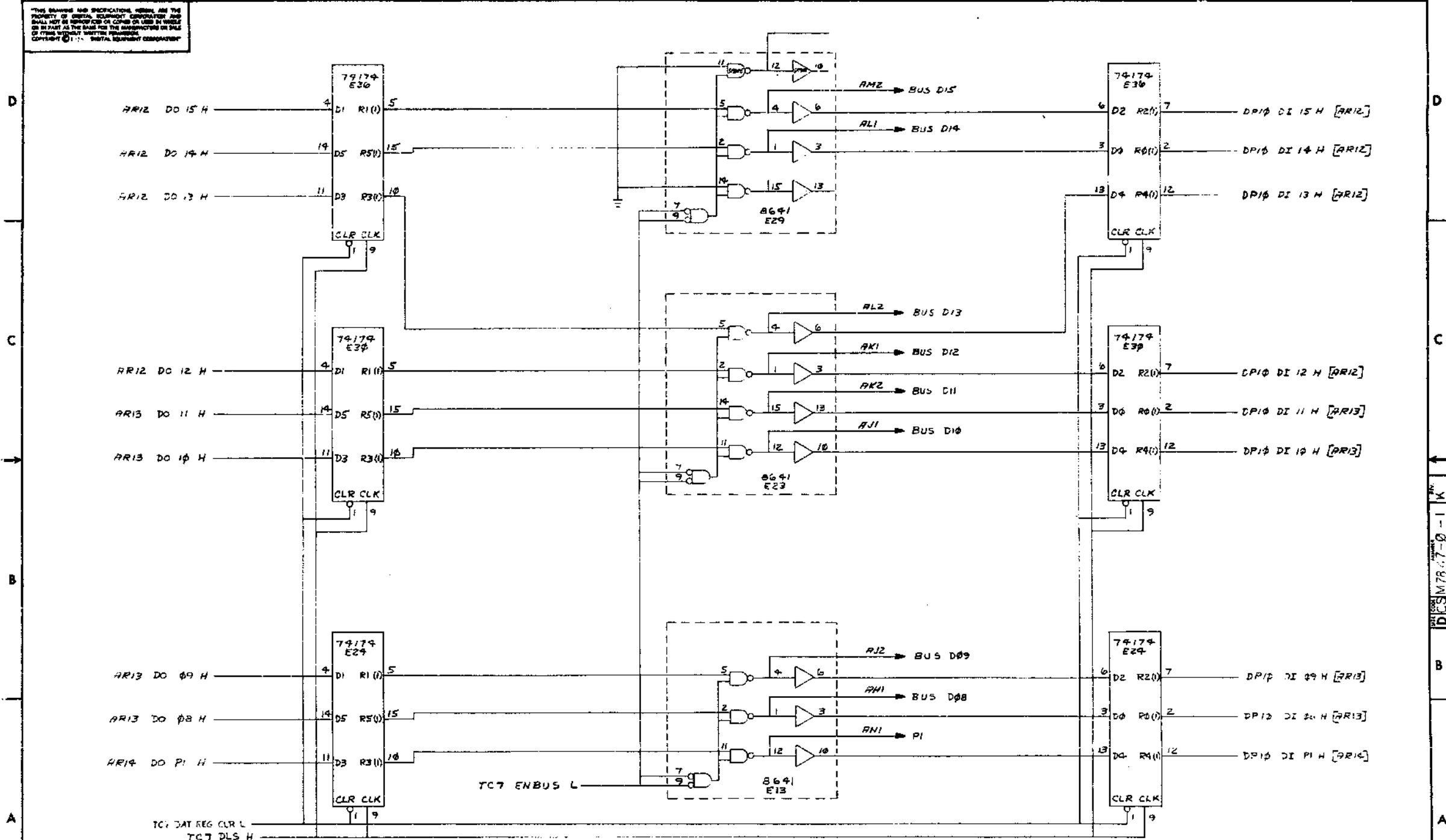


VARIATION	R2 VALUE	D1 VALUE
YA, YB, YC, YD YE, YF, YH, YJ	270	IN 757A 3V
BA, CA, DA, EA, BR, CR, DR, EB, EC, CC, DC, EC, BD, CD, DD, DE, CE, DE, EE, BF, CF, DF, BF, CD, DE, BJ, CJ, DJ, EJ	560 Ω	IN 751A -5V

REVISIONS		
CHK	CHANGE NO	REV

TITLE UNIBUS MOS MEMORY (DR9) NUMBER M7847-2-1 REV. K
 SCALE SHEET 9 OF 16 DIST.

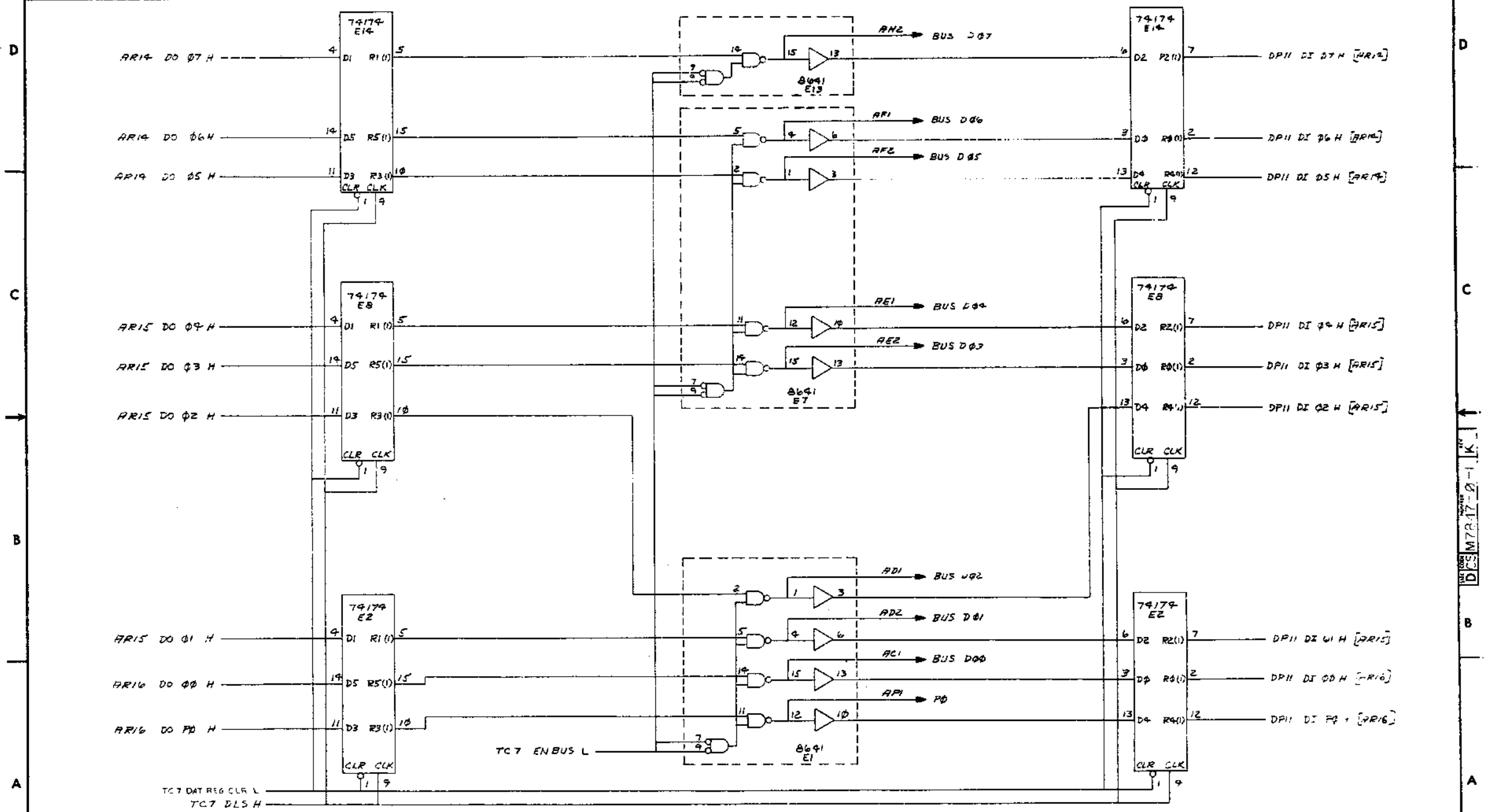
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REVISIONS		
CHK	CHANGE NO.	REV.

(DATA PATH)		TITLE	SIZE CODE	NUMBER	REV.
UNIBUS MCS MEMORY		DCS	M7847-0-1	K	
SCALE	SHEET	DATE			
	10 OF 16				

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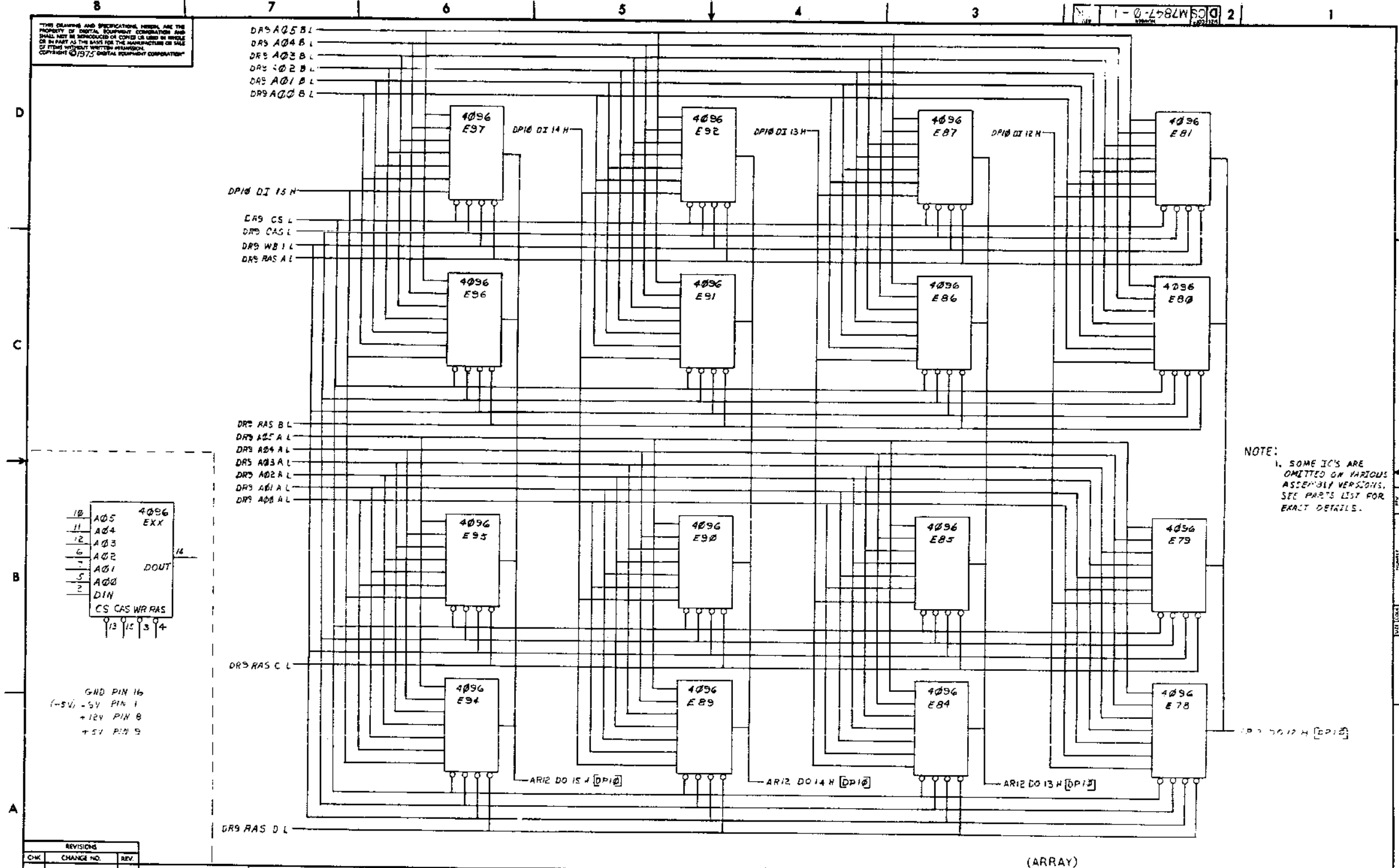
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	(DPI)	SIZE CODE	NUMBER	REV.
UNIBUS MOS MEMORY	D	CS	M7847-0-1	K
SCALE	1/1	SHEET	11 OF 16	DIST.

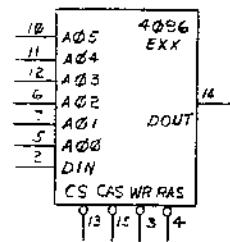
162

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1-0-1582W 2



NOTE:
1. SOME IC'S ARE OMITTED ON VARIOUS ASSEMBLY VERSIONS. SEE PARTS LIST FOR EXACT DETAILS.



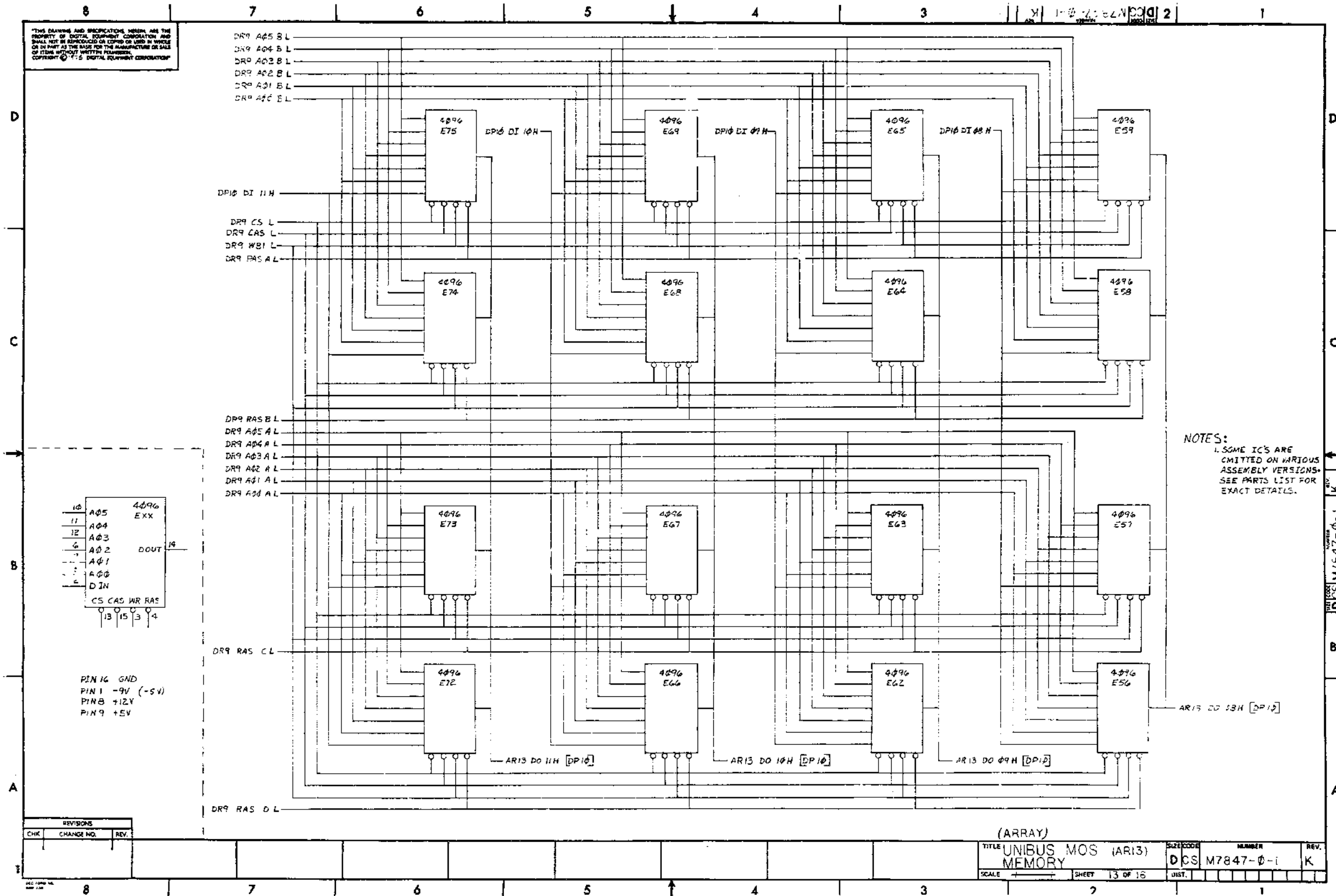
GND PIN 16
(-5V) -5V PIN 1
+12V PIN 8
+5V PIN 9

REVISIONS		
CHK	CHANGE NO.	REV.

(ARRAY)
TITLE UNIBUS MOS MEMORY (AR12) SIZE CODE NUMBER REV.
D CS M7847-0-1 K
SCALE: ++ SHEET 12 OF 16 D'IST

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DR9 A35 B L
 DR9 A34 B L
 DR9 A33 B L
 DR9 A22 B L
 DR9 A01 B L
 DR9 A00 B L

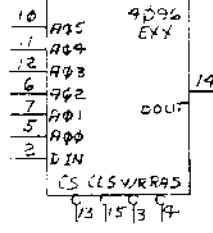
DR9 CS L
 DR9 CAS L
 DR9 WB1 L
 DR9 RAS A L

DR9 R75 B L
 DR9 A75 A L
 DR9 A09 A L
 DR9 A03 A L
 DR9 A02 A L
 DR9 A01 A L
 DR9 A00 A L

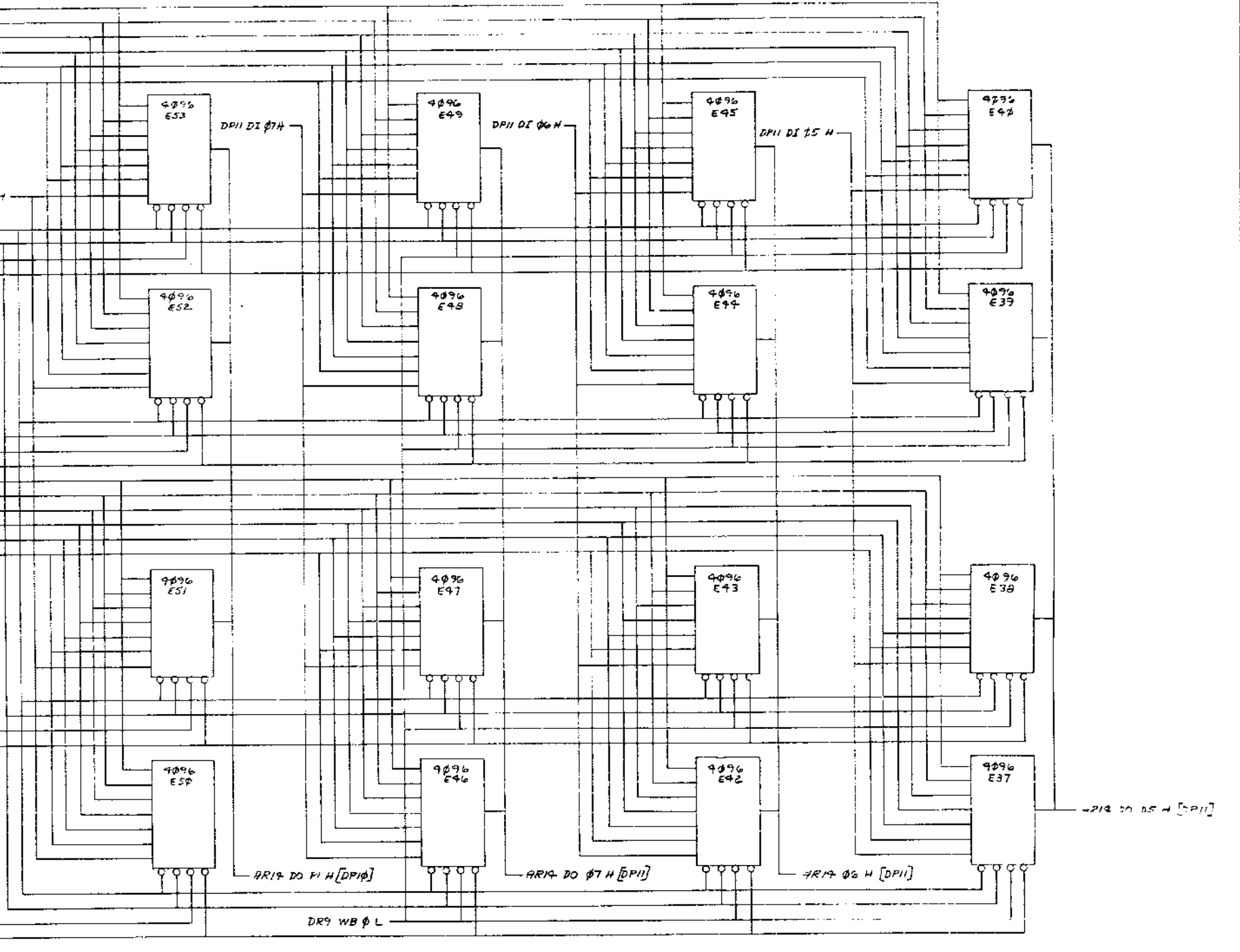
DR9 RAS C L

DR9 RAS D L

NOTE:
 SOME IC'S ARE OMITTED ON VARIOUS ASSEMBLY VERSIONS. SEE PARTS LIST FOR EXACT DETAILS.

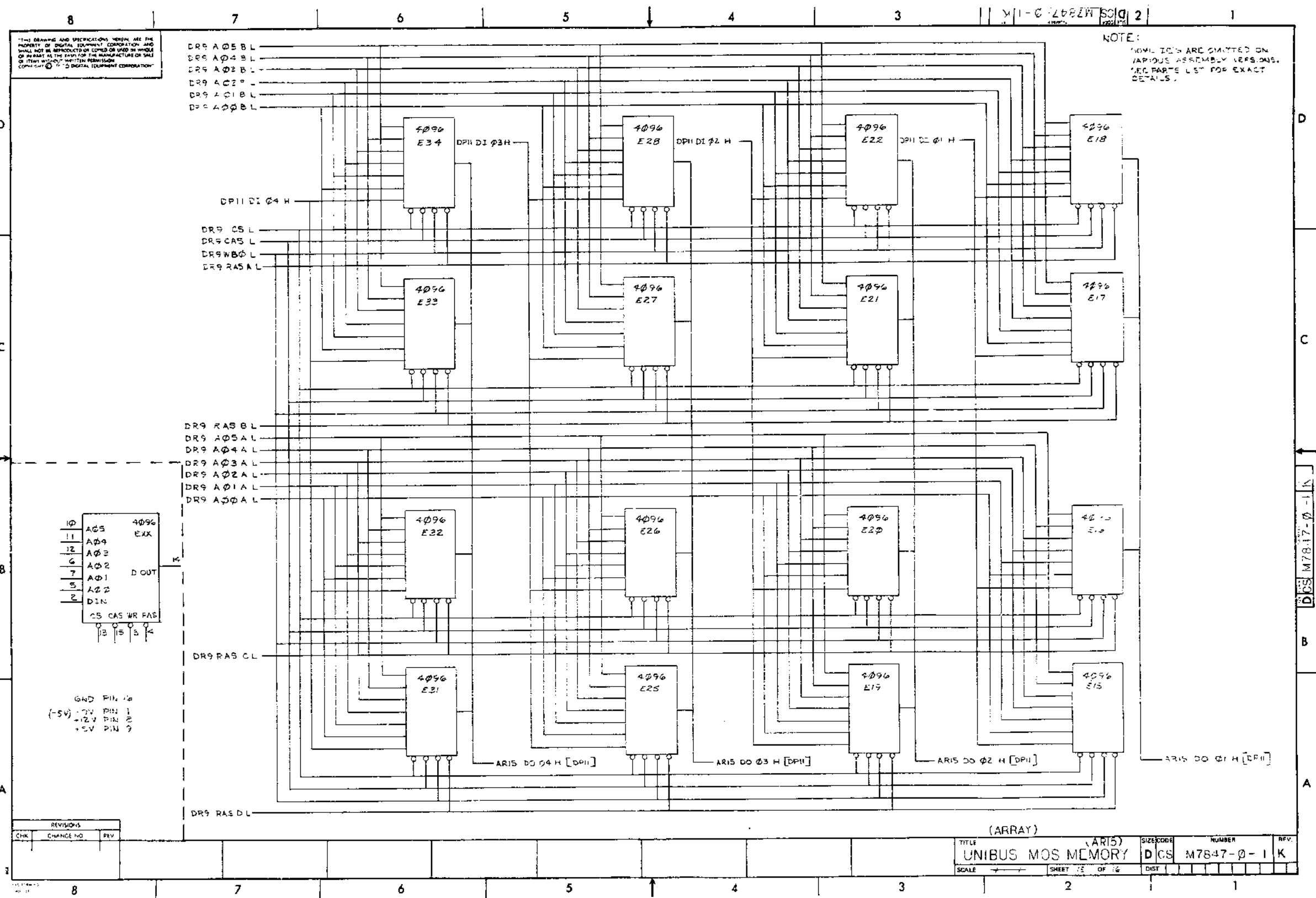


GND PIN 16
 -5V PIN 1
 +12V PIN 8
 +5V PIN 9



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		(ARRAY)	(AR14)	SIZE/COORD	NUMBER	REV.
UNIBUS MOS MEMORY				D CS M7847-0-1		K
SCALE	SHEET	OF	TOTAL	DIST.		



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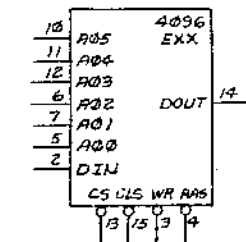
DR9 A05 B L
 DR9 A04 B L
 DR9 A03 B L
 DR9 A02 B L
 DR9 A01 B L
 DR9 A00 B L

DP11 DI P0 H
 DR9 CS L
 DR9 CAS L
 DR9 WB0 L
 DR9 RAS A L

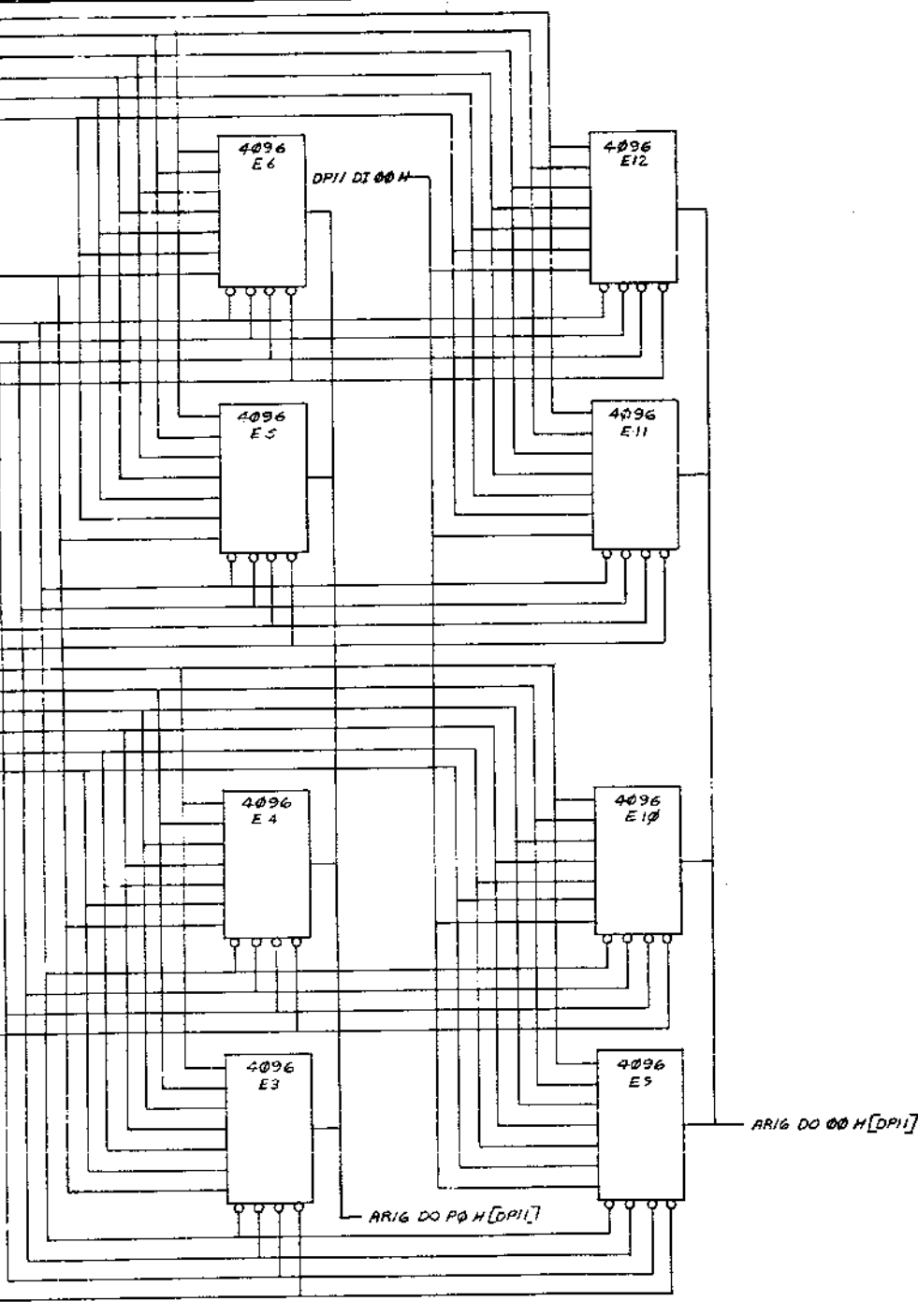
DR9 RAS B L
 DR9 RAS A L
 DR9 A04 A L
 DR9 A03 A L
 DR9 A02 A L
 DR9 A01 A L
 DR9 A00 A L

DR9 RAS C L

DR9 RAS D L



GND PIN 16
 -5V PIN 1
 +12V PIN 8
 +5V PIN 9



NOTE:
 SOME IC'S ARE OMITTED ON
 VARIOUS ASSEMBLY VERSIONS.
 SEE PARTS LIST FOR
 EXACT DETAILS.

REVISIONS		
CHK	CHANGE NO	REV

(ARRAY)		TITLE	SIZE CODE	NUMBER	REV.
UNIBUS MOS MEMORY		(AR16)	DCS	M7847-0-1	K
SCALE	SHEET 76 OF 76	DIST.			

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FIELD MAINTENANCE PRINT SET

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FIELD MAINT. PRINT	B-TC-KD11-D-5
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KD11-D PROCESSOR	A-PL-KD11-D-Ø
KD11-D PROC. MODULE HEX	D-CS-M7263-Ø-1
ROM LISTING	K-CS-KD11-D-3

UNIT VARIATIONS COVERED BY THIS PRINT SET

KD11-D

KD11-D

Field Maintenance Print Set

Digital Equipment Corporation

PRINT SET ORDER NO.
MPØØØ2Ø

REVISIONS
EN 01124, 16-NOV75 (Ø27)

DATE	CHG. NO.	REV.	USED ON OPTION/MODEL	DRN.	DATE
19JAN76	KD11-D-1	A	11/Ø4-AA 11/Ø4-DC	D. HEALY	10/1/75
			11/Ø4-AB 11/Ø4-DD	CHK'D	DATE
			11/Ø4-AC 11/Ø4-EC	D. HEALY	10/1/75
			11/Ø4-AD 11/Ø4-ED	PROJ. ENG.	DATE
			11/Ø4-BA	<i>BERNSTEIN</i>	10-22-75
			11/Ø4-BB		
			11/Ø4-BC	FIELD SERV.	DATE
			11/Ø4-BD		10-22-75

digital					
TITLE: FIELD SERVICE MAINTENANCE PRINT SET KD11-D					
SIZE	CODE	NUMBER	REV.		
B	TC	KD11-D-5	A		
DIST. _____					

PAGE REVISION CONTROL SHEET

SH NO.	PAGE REVISIONS	REMARKS
1		
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FIRST USED ON OPTION/MODEL
KD11-D

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
MICRO PROGRAM
FLOW KD11-D

DATE	10/20/75
DATE	10/22/75
DATE	10/22/75
DATE	10/22/75
DATE	10/23/75

SIZE CODE	KMP	NUMBER	KD11-D-2	REV.	
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SCALE
B-DD-KD11-D

SHEET 1 OF 36

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! NWFLW,MAC[142,3102] 17:26 9-MAY-1964
! DEFINE,MIC 10:55 22-FEB-1964

2

```
: 1 ;CONTROL STORE ROM DEFINITIONS FOR THE PDP11/05E
: 2
: 3 ;FIELDS ARRANGED FOR READABILITY, NOT COMPACTNESS
: 4 ;BIT FIELDS ARE NUMBERED FROM LEFT TO RIGHT
: 5
: 6 ;ALU CONTROL SIGNALS
: 7 ALU/=75,6,29,0 ;BIT 5=CARRY IN
: 8 ;BIT 4=ALU MODE
: 9 ;BIT 3=0=ALU S0-S3
: 10 ;BY DEFAULT ALU/=A
: 11
: 12 ZERO=63
: 13 A + B=71
: 14 A PLUS B=31
: 15 A PLUS B PLUS 1=30
: 16 S=27
: 17 A MINUS B MINUS 1=45
: 18 A(-)=40
: 19 A PLUS A=15
: 20 A PLUS 1=74
: 21 A=75
: 22
: 23 ; SCRATCH PAD CONTROL
: 24 SPA MUX/=3,2,33,0 ;BIT 0=SPA MUX W1
: 25 ;BIT 1=SPA MUX W0
: 26 ;BY DEFAULT SPA MUX/=ROM SPA
: 27 RA=0
: 28 RS=1
: 29 RD=2
: 30 ROM SPA=3
: 31 ROM SPA/=7,4,37 ;BIT 0-3=SP A3-A0
: 32 PS=5
: 33 R6=6
: 34 PS=5
: 35 PC=7
: 36 R10=10
: 37 R11=11
: 38 R12=12
: 39 R13=13
: 40 R14=14
: 41 R17=17
: 42 S-CAR=17
: 43 ;B REGISTER CONTROL
: 44 B MODE/=3,2,13,0 ;BY DEFAULT BMODE/=HOLD DATA
: 45 LOAD=0
: 46 SHFT L=1
: 47 SHFT R=2
: 48 HOLD=3
: 49 ;BRANCH FROM MICROCODE TEST (MUT) CONTROL
: 50 MUT/=0,3,16,0 ;BY DEFAULT MUT/=A OR 00
: 51 ;OUTPUT ENABLED
: 52 NONE=0
: 53 BIT OFST=2
: 54 ENDS STORE=0
: 55 ENDS DRE=1
: 56 LOAD PS=5
: 57 LOAD CC=3
```

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1 156 JUMBUS GATING CONTROL SIGNALS
1 157 BUS CONTROL/ENB/2,19,0 1BY DEFAULT BUS CONTROL/ENB
1 158 ISATI FORCING A
1 159 JUMBUS READ OPERATION
1 160
1 161 DATI0
1 162 DATI01
1 163 DATI02
1 164 DATI03
1 165 CPU DATA PATH A-MULTIPLYER SELECT CONTROL
1 166 ANY DEFAULT AMUX/ALU
1 167 ALLOWING UP INPUTS
1 168 TO PASS THROUGH MULTIPLEXER
1 169
1 170 DM00
1 171 X01
1 172 AL0M2
1 173 CS012
1 174
1 175 ISCRATCH RAM R/W/ENB/WHITE CONTROL
1 176 SP CONTROL/ENB/2,9,0
1 177
1 178 READ0P
1 179 WRITE L0M1
1 180 READ+192
1 181
1 182 WRITE 0P003
1 183
1 184 BRANCH 0P BYTE INSTRUCTION CONTROL
1 185 BUT BYT/ENB/2,10,0
1 186 NOT01
1 187
1 188 BRANCH TO SERVICE CONTROL
1 189 BUT SERVICE/ENB/1,11,0 2DEFAULT TO BRANCH DISABLED
1 190 SERVE1
1 191
1 192 DATA TRANSFER CONTROL SIGNAL
1 193 DAT TR00/ENB/1,17,0 1TPAUSEP ENAB0L
1 194
1 195 ALLOW BYTE TRANSFER CONTROL SIGNAL
1 196 TRY DEF0UL AL00A BYTE DISABLED
1 197 BIT0ER
1 198
1 199 F0IGN EXTEND CONTROL
1 200 EN0P SEX/1,17,2,0
1 201 SEX0P
1 202
1 203
1 204
1 205 AUXILIARY POP CONTROL ENAB0L
1 206 AUX CONTROL/ENB/1,16,0 3BY DEF0UL AU0 CONTROL IS DISABLED
1 207 AU0M1
1 208
1 209 NEXT MICRO PC ADDRESS
1 210 J200,8,7,4
1 211
1 212 LOAD INSTRUCTION REGISTER ENAB0L
1 213 LOAD IR/ENB/1,19,0
1 214 D0R0E1
1 215
1 216 PC0R USED LOCATIONS
1 217

```

```

1 118 M0L/ENB/2,11,0
1 119
1 120
1 121 M0ACH0 OFFICITIONS
1 122 DR_P0C
1 123 DR_0RS
1 124 BR_0RD
1 125 DR_0R6
1 126 DR_0P10
1 127 DR_0K12
1 128 DR_0K13
1 129 DR_0K16
1 130 DR_0K6 PLUS 2
1 131 DR_0K6 MINUS 2
1 132 PC_P0C PLUS 2
1 133 DR_0RD PLUS 2
1 134 DR_0RD MINUS 2
1 135 DR_0R6 PLUS 2
1 136 DR_0R6 MINUS 2
1 137 R13-R13 PLUS 2
1 138 R11-R13 PLUS 1
1 139 DR_0 PLUS RS
1 140 DR_0 PLUS R0
1 141 PC_P0C PLUS N
1 142 R13-R13 PLUS V13
1 143 R_0R17
1 144 DR_0E
1 145 DR_0RS
1 146 DR_0P SEX
1 147 DR_0RD
1 148 DR_0PC
1 149 DR_0R12
1 150 DR_0R11 0P 1
1 151 DR_0R11 0P 0
1 152 DR_0R17 0P 0
1 153 DR_0RD 0P 0
1 154 DR_0RD 0P 0
1 155 DR_0R0
1 156 DR_0R11-R
1 157 R11-R SEX
1 158 R17-R (SEX)
1 159 R10-R

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MAB SEX/SEX*
ENAB SEX/SEX*
PA MUX/ROM SPA, ENAB SEX
MAB SEX/SEX*
ENLE SEX/SEX*
PA MUX/ROM SPA, ENAB SEX
MSPA MUX/ROM SPA, ENAB
SPA MUX/ROM SPA, ENAB
MUX/ROM SPA, ENAB SPA
MUX/ROM SPA
MUX/ROM SPA*
L0, SPA MUX/ROM SPA*
0M SPA*
SPA*
M SPA*
L0, SPA MUX/ROM SPA*
0M SPA*

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"ROM SPA/PC, SPA MUX/ROM SPA"
"SPA MUX/RS"
"SPA MUX/RD"
"ROM SPA/R0, SPA MUX/ROM SPA"
"ROM SPA/R1, SPA MUX/ROM SPA"
"ROM SPA/R2, SPA MUX/ROM SPA"
"ROM SPA/R3, SPA MUX/ROM SPA"
"ROM SPA/R16, SPA MUX/ROM SPA"
"AL00A 0005 B PLUS 1, SPA MUX/RS, AMUX/ALU, SP CONTROL/ENAB+1, E"
"SPA MUX/RS, AL00A MINUS B MINUS 1, SP CONTROL/ENAB+1, AMUX/ALU"
"ROM SPA/PC, AL00A PLUS B PLUS 1, SP CONTROL/ENAB+1, AMUX/ALU, S"
"AL00A PLUS B PLUS 1, SPA MUX/R0, SP CONTROL/ENAB+1, AMUX/ALU, E"
"SPA MUX/R0, AL00A MINUS B MINUS 1, SP CONTROL/ENAB+1, AMUX/ALU"
"AL00A PLUS B PLUS 1, ROM SPA/R0, SP CONTROL/ENAB+1, AMUX/ALU, S"
"ROM SPA/R0, AL00A MINUS B MINUS 1, SP CONTROL/ENAB+1, AMUX/ALU"
"AL00A PLUS B PLUS 1, ROM SPA/R1, SP CONTROL/ENAB+1, AMUX/ALU, S"
"AL00A PLUS B PLUS 1, ROM SPA/R2, SP CONTROL/ENAB+1, AMUX/ALU, S"
"AL00A PLUS B PLUS 1, ROM SPA/R3, SP CONTROL/ENAB+1, AMUX/ALU, S"
"AL00A PLUS B PLUS 1, ROM SPA/R16, SP CONTROL/ENAB+1, AMUX/ALU, S"
"ROM SPA/R17, AL00A B MODE/LOAD, AMUX/ALU, SPA MUX/ROM SPA"
"AL00A B MODE/LOAD, AMUX/ALU"
"SPA L0X/RS, B MODE/LOAD, AMUX/ALU"
"AL00A B MODE/LOAD, ENAB SEX/SEX, AMUX/ALU"
"SPA MUX/R0, B MODE/LOAD, AMUX/ALU"
"ROM SPA/PC, B MODE/LOAD, AMUX/ALU, SPA MUX/ROM SPA"
"ROM SPA/R12, B MODE/LOAD, AMUX/ALU, SPA MUX/ROM SPA"
"ROM SPA/R11, B MODE/LOAD, AMUX/ALU, SPA MUX/ROM SPA"
"ROM SPA/R11, B MODE/LOAD, AMUX/ALU, ENAB SEX/SEX, AMUX/A"
"ROM SPA/R17, B MODE/LOAD, AMUX/ALU, SPA MUX/R"
"SPA MUX/R0, SP CONTROL/WHITE L0, AUX CONTROL/AUX, AMUX/ALU"
"ROM MUX/R0, AUX CONTROL/AUX, AMUX/ALU"
"ROM SPA/R5, AL00A, SP CONTROL/WHITE WORD, AMUX/ALU, SPA MUX/ROM"
"ROM SPA/R11, AL00A, SP CONTROL/WHITE WORD, AMUX/ALU, SPA MUX/RO"
"ROM SPA/R11, AL00A, SP CONTROL/WHITE WORD, ENAB SEX/SEX, AMUX/A"
"AL00A, ROM SPA/S+0, SP CONTROL/WHITE WORD, AMUX/ALU, SPA MUX/R"
"AL00A, ROM SPA/R13, SP CONTROL/WHITE WORD, AMUX/ALU, SPA MUX/RO"

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1 368 04 02=11 0A... J... DESTINATION OPERAND
1 369 1... FROM MEMORY
1 370 1... J... J...
1 371 1... J... J...
1 372 1... J... J...
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1 428 1... J... DESTINATION MODE 1
1 429 1... J...
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1 490	U 00517, 3522, 0111, 7515, 6000	U 00517, 3522, 0111, 7515, 6000
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511  SUBI=11PA_00011,ALERT, 11ADD DESTINATION, OPERAND FROM
    R_00010US DATA, 11MEMORY
    ROT BYTE, J/ADR0=2 11BRANCH ON BYTE INSTRUCTION
    JIF 000 BYTE GO TO R000=1
    JIF 0010, BYTE GO TO R000=3
    JIF NOT BYTE GO TO R000=2

1496 FROM=MODIFY INSTRUCTION DESTINATION MODE 2
521  R002=11PA_00011,ALERT, 11FROM DESTINATION OPERAND
    R_00010US DATA, 11FROM MEMORY
    GOT BYTE, J/ADR2=2 11BRANCH ON BYTE INSTRUCTION
    JIF 000 BYTE GO TO R000=1
    JIF 0010, BYTE GO TO R000=1
    JIF NOT BYTE FAIL THROUGH TO R002=2

1741  R002=2100_00020,ALERT, 11ADD 100 TO CONTENTS OF DESTINATION
    REGISTER

1800=MODIFY INSTRUCTION DESTINATION MODE 3
521  R003=11PA_00011,ALERT, 11INPUT ADDRESS OF DESTINATION
    R_00010US DATA, J/ADR3=2 11OPERAND FROM MEMORY

1800=MODIFY INSTRUCTION DESTINATION MODE 4
541  R004=11RD_00010,ALERT, R000R/J/ADR0=1 11SUBTRACT TWO FROM DESTINATION
    REGISTER IF INSTRUCTION IS NOT
    1A BYTE OR ONE IF INSTRUCTION
    11S A BYTE, PERMIT OVERFLOW

1800=MODIFY INSTRUCTION DESTINATION MODE 5
551  R005=11RD_00010,ALERT, R000R/J/ADR5=2 11SUBTRACT TWO FROM CONTENTS OF
    DESTINATION REGISTER PERMIT OVERFLOW

1800=MODIFY INSTRUCTION DESTINATION MODE 6
561  R006=11PA_PC_00011,ALERT, 11INPUT INDEX WORD FROM MEMORY
    R_00010US DATA, J/ADR6=2

1800=MODIFY INSTRUCTION DESTINATION MODE 7
571  R007=11PA_PC_00011,ALERT, 11INPUT INDEX WORD FROM MEMORY
    R_00010US DATA, J/ADR7=2

1800=MODIFY INSTRUCTION EVEN BYTE ROUTINE FOR DESTINATION MODES 0 AND 1
1601  R008=11RD_00010,ALERT, 11OPERATE ON SOURCE OPERAND AND
    DESTINATION OPERAND SIGN EXTENDED
    11SET CONDITION CODES ACCORDING TO
    11RESULTS

1671  R009=11 RD_00010,ALERT, 11OPERATE ON SOURCE OPERAND AND
    DESTINATION OPERAND WITH
    11BYTES SHIFTER LOADED INTO
    11R REGISTER IT TO FORM
    11THE DESTINATION OPERAND

1800=MODIFY INSTRUCTION ODD BYTE ROUTINE FOR DESTINATION MODE 2
1771  R000=11RD_00010,ALERT, 11ADD TWO TO CONTENTS OF DESTINATION
    REGISTER IF INSTRUCTION IS NOT
    1A BYTE OR ONE IF INSTRUCTION
    11S A BYTE

1800=MODIFY INSTRUCTION EVEN BYTE ROUTINE FOR DESTINATION MODE 2
1781  R000=11RD_00010,ALERT, 11ADD TWO TO CONTENTS OF DESTINATION
    REGISTER IF INSTRUCTION IS NOT
    1A BYTE OR ONE IF INSTRUCTION
    11S A BYTE.

1800=MODIFY INSTRUCTION DESTINATION MODE 0
161  R000=11 RD_00010,ALERT, 11OPERATE ON SOURCE AND
    DESTINATION OPERANDS, SET
    11CONDITION CODES ACCORDING TO
    11RESULTS

1800=MODIFY INSTRUCTION DESTINATION MODE 0
161  R000=11 RD_00010,ALERT, 11DESTINATION OPERAND TO R REGISTER
    JIF BYTE GO TO R000=1
    JIF NOT BYTE FAIL THROUGH TO R000=2

2041  R000=21 00010,ALERT, 11ADDITIONAL CONTROL SET-UP, DESTINATION
    OPERAND ROTATED WITHOUT
    11TRANSFER THROUGH ALU

1800=MODIFY INSTRUCTION DESTINATION MODE 0
161  R000=11 RD_00010,ALERT, 11FROM DESTINATION OPERAND FROM
    PREVIOUS DATA MEMORY
    JIF 000 BYTE GO TO R000=1
    JIF 0010, BYTE GO TO R000=1
    JIF NOT BYTE FAIL THROUGH TO R000=2

2141  R000=21 00010,ALERT, 11ADDITIONAL CONTROL SET-UP, DESTINATION
    OPERAND ROTATED WITHOUT
    11TRANSFER THROUGH ALU

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1 608 ROTATE INSTRUCTION DESTINATION CODE 2
1 609 721 BA_PD,DATA,ALBVT, INPUT DESTINATION OPERAND FROM
1 610 ROT2=11 BA_PD,DATA,ALBVT, MEMORY
1 611 B_OPCODE,DATA, J/ROT2=2 BRANCH ON BYTE INSTRUCTION
1 612 B_OPCODE,DATA, J/ROT2=2 BRANCH ON BYTE INSTRUCTION
1 613 IF D0D BYTE GO TO ROT2=1
1 614 IF R0F6 BYTE GO TO ROT2=1
1 615 IF R0F7 BYTE GO TO ROT2=2
1 616 2241 J/ROT2=2
1 617 ROT2=21 R_0/J/ROT2=2
1 618 J/ROT2=21 R_0/J/ROT2=2
1 619 J/ROT2=21 R_0/J/ROT2=2
1 620
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1 624 ROTATE INSTRUCTION DESTINATION CODE 3
1 625 ROT3=11 BA_PD,DATA, P_OPCODE,DATA, J/ROT3=2 TOPEND FROM MEMORY
1 626
1 627
1 628 2341
1 629 ROT3=51 R_0/J/ROT3=2
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1 635 ROTATE INSTRUCTION DESTINATION CODE 4
1 636 741
1 637 ROT4=11 R0_PC, M0RS, Z, S, M, T, P, SUBTRACT I/O FROM DESTINATION
1 638 E, R, O, V, E, R, J, R, O, T, 1, 1, REGISTER IF INSTRUCTION IS NOT
1 639 1, A, B, Y, T, E, O, R, ONE, I, F, I, N, S, T, R, U, C, T, I, O, N
1 640 1, I, S, A, B, Y, T, E, P, E, R, M, I, T, O, V, E, R, F, L, O, W
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1 645 ROTATE INSTRUCTION DESTINATION CODE 5
1 646 ROT5=11 R0_PC, M0RS, Z, S, M, T, P, SUBTRACT I/O FROM DESTINATION
1 647 REGISTER, PERMIT OVERFLOW
1 648
1 649
1 650
1 651 ROTATE INSTRUCTION DESTINATION CODE 6
1 652 ROT6=11 BA_PD,DATA, P_OPCODE,DATA, J/ROT6=2
1 653
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1 660
1 661 ROTATE INSTRUCTION CODE 7
1 662 711
1 663 ROT7=11 BA_PD,DATA, P_OPCODE,DATA, J/ROT7=2
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1 675
1 676 ROTATE INSTRUCTION EVEN BYTE ROUTINE FOR DESTINATION CODE 1
1 677 2161
1 678 PER1=16,6,J/PER1=1
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U 0072, 4502, 0121, 7514, 0000
U 0234, 3100, 0015, 2714, 0000
U 0074, 5140, 0111, 7514, 0000
U 0234, 3300, 0015, 2714, 0000
U 0074, 1614, 7004, 4514, 0000
U 0075, 5230, 7014, 4514, 0000
U 0076, 5240, 0111, 7515, 0000
U 0077, 5300, 0111, 7515, 0000
U 0200, 5400, 0015, 2714, 0000
U 0217, 5434, 0015, 2714, 0000
U 0216, 2740, 0015, 2714, 0000
U 0027, 5474, 0015, 2714, 0000
U 0220, 3140, 0015, 2714, 0000
U 0237, 5534, 0015, 2714, 0000
U 0230, 3340, 0015, 2714, 0000
U 0100, 5500, 0015, 2714, 0000
U 0030, 5020, 0015, 7514, 0000

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1 668 ROTATE INSTRUCTION ODD BYTE ROUTINE FOR DESTINATION CODE 1
1 669 2171
1 670 ROT1=11 R17_B (S, A, B), J/ROT1=2
1 671 DESTINATION OPERAND WITH
1 672 BYTES SWAPPED LOADED INTO
1 673 RSP REGISTER 17 TO FORM
1 674 NEW DESTINATION OPERAND
1 675
1 676 ROTATE INSTRUCTION EVEN BYTE ROUTINE FOR DESTINATION CODE 1
1 677 2181
1 678 PER1=16,6,J/PER1=1
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U 0217, 5434, 0015, 2714, 0000
U 0216, 2740, 0015, 2714, 0000
U 0027, 5474, 0015, 2714, 0000
U 0220, 3140, 0015, 2714, 0000
U 0237, 5534, 0015, 2714, 0000
U 0230, 3340, 0015, 2714, 0000
U 0100, 5500, 0015, 2714, 0000
U 0030, 5020, 0015, 7514, 0000

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U 0012, 6340, 0111, 7515, 0000
 U 0013, 6340, 0111, 7515, 0000
 U 0014, 6340, 0111, 7515, 0000
 U 0015, 6340, 0111, 7515, 0000
 U 0016, 6340, 0111, 7515, 0000
 U 0017, 6340, 0111, 7515, 0000
 U 0018, 6340, 0111, 7515, 0000
 U 0019, 6340, 0111, 7515, 0000
 U 0020, 6340, 0111, 7515, 0000
 U 0021, 6340, 0111, 7515, 0000
 U 0022, 6340, 0111, 7515, 0000
 U 0023, 6340, 0111, 7515, 0000
 U 0024, 6340, 0111, 7515, 0000
 U 0025, 6340, 0111, 7515, 0000
 U 0026, 6340, 0111, 7515, 0000

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REGISTERS DATA/JSR=1;2 MEMORY
 ISWAP BYTE INSTRUCTION DESTINATION MODE 2
 SUB2=1 R_ADDR,DATA;R_ADDR=2; INPUT DESTINATION OPERAND FROM MEMORY
 ISWAP BYTE INSTRUCTION DESTINATION MODE 3
 SUB3=1 R_ADDR,DATA; INPUT ADDRESS OF DESTINATION REGISTER; PERMIT OVERFLOW
 ISWAP BYTE INSTRUCTION DESTINATION MODE 4
 SUB4=1 R_ADDR MINUS ZERO,OVER,JSR=1;1; ISUBTRACT TWO FROM DESTINATION REGISTER; PERMIT OVERFLOW
 ISWAP BYTE INSTRUCTION DESTINATION MODE 5
 SUB5=1 R_ADDR MINUS ZERO,OVER,JSR=2;2; ISUBTRACT TWO FROM DESTINATION REGISTER; PERMIT OVERFLOW
 ISWAP BYTE INSTRUCTION DESTINATION MODE 6
 SUB6=1 R_ADDR,DATA; INPUT INDEX WORD FROM MEMORY; R_ADDR=2
 ISWAP BYTE INSTRUCTION DESTINATION MODE 7
 SUB7=1 R_ADDR,DATA; INPUT INDEX WORD FROM MEMORY; R_ADDR=2
 JUMP INSTRUCTION DESTINATION MODE 1
 J1=1 R_ADDR,JSR=1;2; JUMP TO ADDRESS OF DESTINATION REGISTER; TRANSFERRED TO R REGISTER
 JUMP INSTRUCTION DESTINATION MODE 2
 J2=1 R_ADDR,JSR=2;2; JUMP TO ADDRESS OF DESTINATION REGISTER; STORED INTO R REGISTER
 JUMP INSTRUCTION DESTINATION MODE 3
 J3=1 R_ADDR,DATA; INPUT JUMP ADDRESS FROM MEMORY; R_ADDR=2
 JUMP INSTRUCTION DESTINATION MODE 4
 J4=1 R_ADDR MINUS ZERO,OVER,JSR=1;1; ISUBTRACT TWO FROM DESTINATION REGISTER; PERMIT OVERFLOW

U 0012, 6340, 0111, 7515, 0000
 U 0013, 6340, 0111, 7515, 0000
 U 0014, 6340, 0111, 7515, 0000
 U 0015, 6340, 0111, 7515, 0000
 U 0016, 6340, 0111, 7515, 0000
 U 0017, 6340, 0111, 7515, 0000
 U 0018, 6340, 0111, 7515, 0000
 U 0019, 6340, 0111, 7515, 0000
 U 0020, 6340, 0111, 7515, 0000
 U 0021, 6340, 0111, 7515, 0000
 U 0022, 6340, 0111, 7515, 0000
 U 0023, 6340, 0111, 7515, 0000
 U 0024, 6340, 0111, 7515, 0000
 U 0025, 6340, 0111, 7515, 0000
 U 0026, 6340, 0111, 7515, 0000

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REGISTERS DATA/JSR=1;2 MEMORY
 JUMP INSTRUCTION DESTINATION MODE 5
 J5=1 R_ADDR MINUS ZERO,OVER,JSR=2;2; ISUBTRACT TWO FROM DESTINATION REGISTER; PERMIT OVERFLOW
 JUMP INSTRUCTION DESTINATION MODE 6
 J6=1 R_ADDR,DATA; INPUT INDEX WORD FROM MEMORY; R_ADDR=2
 JUMP INSTRUCTION DESTINATION MODE 7
 J7=1 R_ADDR,DATA; INPUT INDEX WORD FROM MEMORY; R_ADDR=2
 JUMP TO SUBROUTINE INSTRUCTION FOR DESTINATION MODE 1
 JSR=1 R_ADDR,JSR=1;2; MOVE CONTENTS OF DESTINATION REGISTER TO R REGISTER
 JUMP TO SUBROUTINE INSTRUCTION FOR DESTINATION MODE 2
 JSR=2 R_ADDR,JSR=2;2; MOVE CONTENTS OF DESTINATION REGISTER TO R REGISTER
 JUMP TO SUBROUTINE INSTRUCTION FOR DESTINATION MODE 3
 JSR=3 R_ADDR,DATA; INPUT DATA FROM MEMORY ADDRESS; R_ADDR=2; SPECIFIED BY DESTINATION REGISTER
 JUMP TO SUBROUTINE INSTRUCTION FOR DESTINATION MODE 4
 JSR=4 R_ADDR MINUS ZERO,OVER,JSR=1;1; ISUBTRACT TWO FROM DESTINATION REGISTER; PERMIT OVERFLOW
 JUMP TO SUBROUTINE INSTRUCTION FOR DESTINATION MODE 5
 JSR=5 R_ADDR MINUS ZERO,OVER,JSR=2;2; ISUBTRACT TWO FROM DESTINATION REGISTER; PERMIT OVERFLOW
 JUMP TO SUBROUTINE INSTRUCTION FOR DESTINATION MODE 6
 JSR=6 R_ADDR,DATA; INPUT INDEX WORD FROM MEMORY; R_ADDR=2
 JUMP TO SUBROUTINE INSTRUCTION FOR DESTINATION MODE 7
 JSR=7 R_ADDR,DATA; INPUT INDEX WORD FROM MEMORY; R_ADDR=2


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U 0027, 7430,0111,7515,6000
V 0113, 2320,0111,7516,6000
V 0115, 2410,0014,3010,6000
V 0120, 2434,0015,2715,6000
V 0171, 2440,0111,7516,6000
V 0172, 0200,7215,2714,6000
V 0173, 0010,0014,3010,6000
V 0174, 0015,0015,2716,6000
V 0175, 0015,0015,2716,6000
V 0176, 0015,0015,2716,6000
V 0177, 0015,0015,2716,6000
V 0178, 0015,0015,2716,6000
V 0179, 0015,0015,2716,6000
V 0180, 0015,0015,2716,6000
V 0181, 0015,0015,2716,6000
V 0182, 0015,0015,2716,6000
V 0183, 0015,0015,2716,6000
V 0184, 0015,0015,2716,6000
V 0185, 0015,0015,2716,6000
V 0186, 0015,0015,2716,6000
V 0187, 0015,0015,2716,6000
V 0188, 0015,0015,2716,6000
V 0189, 0015,0015,2716,6000
V 0190, 0015,0015,2716,6000
V 0191, 0015,0015,2716,6000
V 0192, 0015,0015,2716,6000
V 0193, 0015,0015,2716,6000
V 0194, 0015,0015,2716,6000
V 0195, 0015,0015,2716,6000
V 0196, 0015,0015,2716,6000
V 0197, 0015,0015,2716,6000

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848 RETURN FROM SUBROUTINE INSTRUCTION
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V 0120, 2434,0015,2715,6000
V 0120, 2434,0015,2715,6000
V 0171, 2440,0111,7516,6000
V 0172, 0200,7215,2714,6000
V 0173, 0010,0014,3010,6000
V 0174, 0015,0015,2716,6000
V 0175, 0015,0015,2716,6000
V 0176, 0015,0015,2716,6000
V 0177, 0015,0015,2716,6000
V 0178, 0015,0015,2716,6000
V 0179, 0015,0015,2716,6000
V 0180, 0015,0015,2716,6000
V 0181, 0015,0015,2716,6000
V 0182, 0015,0015,2716,6000
V 0183, 0015,0015,2716,6000
V 0184, 0015,0015,2716,6000
V 0185, 0015,0015,2716,6000
V 0186, 0015,0015,2716,6000
V 0187, 0015,0015,2716,6000
V 0188, 0015,0015,2716,6000
V 0189, 0015,0015,2716,6000
V 0190, 0015,0015,2716,6000
V 0191, 0015,0015,2716,6000
V 0192, 0015,0015,2716,6000
V 0193, 0015,0015,2716,6000
V 0194, 0015,0015,2716,6000
V 0195, 0015,0015,2716,6000
V 0196, 0015,0015,2716,6000
V 0197, 0015,0015,2716,6000

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1 968				ADDRESS OF SOURCE OPERAND
1 969				ADDRESS
1 970				MOVE ADDRESS OF SOURCE OPERAND
1 971				MOVE ADDRESS TO SP REGISTER 16
1 972				INPUT ADDRESS OF SOURCE OPERAND
1 973				INPUT ADDRESS OF SOURCE OPERAND
1 974				INPUT ADDRESS OF SOURCE OPERAND
1 975				MOVE NEW SOURCE OPERAND
1 976				TO U REGISTER
1 977				
1 978				
1 979				
1 980				
1 981				LOAD RESULT OF OPERATION
1 982				INTO DESTINATION REGISTER
1 983				
1 984				
1 985				OUTPUT RESULT OF OPERATION
1 986				UNLESS DATA=0, SERVE INTO ADDRESS SPECIFIED BY
1 987				DESTINATION REGISTER
1 988				
1 989				OUTPUT RESULT OF OPERATION
1 990				UNLESS DATA=0, INTO ADDRESS SPECIFIED BY
1 991				DESTINATION REGISTER
1 992				DESTINATION REGISTER
1 993				LOAD INTO TO CONTENTS OF DESTINATION
1 994				REGISTER IF INSTRUCTION IS NOT
1 995				A BYTE OR HALF IN
1 996				INSTRUCTION IS A BYTE
1 997				
1 998				
1 999				ADD TWO TO CONTENTS OF
1 1000				DESTINATION REGISTER
1 1001				TRANSFER ADDRESS OF DESTINATION
1 1002				OPERAND TO SP REGISTER 12
1 1003				INPUT DESTINATION OPERAND FROM
1 1004				MEMORY
1 1005				UNLESS DATA=0, BRANCH ON BYTE INSTRUCTION
1 1006				IF ODD BYTE GO TO NEXT=1
1 1007				IF EVEN BYTE GO TO NEXT=1
1 1008				IF NOT BYTE FALL THROUGH TO NEXT=3
1 1009				OUTPUT RESULT OF OPERATION TO
1 1010				UNLESS DATA=0, SERVE ADDRESS SPECIFIED BY THE
1 1011				ISP REGISTER 12
1 1012				
1 1013				
1 1014				INPUT ADDRESS OF DESTINATION
1 1015				OPERAND FROM MEMORY
1 1016				
1 1017				
1 1018				ADD TWO TO PC
1 1019				ADD INDEX WORD TO CONTENTS
1 1020				OF DESTINATION REGISTER TO
1 1021				OBTAIN ADDRESS OF DESTINATION
1 1022				OPERAND
1 1023				
1 1024				
1 1025				ADD TWO TO PC
1 1026				ADD INDEX WORD TO CONTENTS OF
1 1027				DESTINATION REGISTER TO OBTAIN
1 1028				
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V 0207, 5604, 2011, 7514, 0000
 V 0274, 0014, 0015, 3115, 0000
 V 0271, 5654, 0015, 2717, 0000
 V 0272, 3120, 0015, 7517, 7000
 V 0273, 5714, 0015, 2717, 0000
 V 0274, 3200, 0015, 7517, 7000
 V 0275, 5754, 0015, 2717, 0000
 V 0276, 5760, 0015, 7517, 7000
 V 0277, 6000, 0015, 2717, 0000
 V 0300, 0017, 0015, 3015, 0000
 V 0301, 6050, 0014, 3010, 0000
 V 0302, 6074, 0015, 2716, 0000
 V 0303, 6100, 0015, 2716, 0000
 V 0304, 6134, 0015, 2717, 0000

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V 0305, 6420, 0015, 7517, 7000
 V 0306, 6440, 0111, 7517, 0000
 V 0307, 6210, 0014, 3015, 0000
 V 0310, 6040, 0015, 3114, 0000
 V 0311, 6250, 0014, 3015, 0000
 V 0312, 6260, 0015, 3114, 0000
 V 0313, 6314, 0015, 2716, 0000
 V 0314, 6040, 0111, 7516, 0000
 V 0315, 0010, 0015, 2715, 0000
 V 0316, 6330, 0014, 3017, 0000
 V 0317, 6320, 0111, 7517, 0000
 V 0320, 6430, 0014, 3015, 0000
 V 0321, 6320, 0015, 3115, 0000
 V 0322, 6470, 0014, 3015, 0000
 V 0323, 6504, 0015, 3115, 0000
 V 0324, 6534, 0015, 2716, 0000
 V 0325, 6320, 0111, 7516, 0000
 V 0326, 6570, 0015, 2716, 0000
 V 0327, 6510, 7414, 4515, 4000
 V 0328, 6620, 0015, 7508, 0000

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LOCATION / LINE NUMBER INDEX

LOC	0	1	2	3	4	5	6	7
0000	193	491	874	860	885	879	853	867
0010	577	769	775	782	787	793	800	806
0020	898	811	816	823	829	835	842	848
0030	722	728	734	740	745	751	756	764
0040	343	356	370	383	395	403	411	417
0050	479	491	501	513	516	526	533	539
0060	215	243	253	265	271	279	285	291
0070	585	598	612	625	638	645	652	658
0100	715	900	209	202	219	912	297	320
0110	904	906	907	909	259	910	326	334
0120	911	913	915	921	348	944	422	945
0130	949	956	959	960	362	965	438	434
0140	966	970	973	976	376	981	446	454
0150	986	992	993	1000	388	1001	462	470
0160	1005	1010	1015	1018	483	1019	544	552
0170	1025	1026	1029	1032	506	1037	568	560
0200	1041	1045	1048	1051	529	1054	603	1057
0210	1062	1065	1068	1070	603	1073	676	670
0220	1077	1080	1083	1086	617	1092	693	685
0230	1094	1096	1105	1108	629	1109	706	700
0240	1115	1116	1119	1122	1126	1135	1141	1143
0250	1147	1152	1155	1158	1162	1163	1166	1169
0260	1172	1178	1180	1184	1186	1190	1192	1198
0270	1200	1205	1210	1215	1221	1225	1230	1235
0300	1236	1240	1242	1246	1247	1252	1257	1260
0310	1261	1266	1267	1270	1273	1278	1281	1286
0320	1288	1289	1293	1294	1297	1300	1304	1307
0330	1308	1312	1313	1314	1316	1318	1322	1327
0340	1330	1331	1335	1336	1338	1342	1348	1351
0350	1352	1358	1359	1362	1363	1364	1369	1370
0360	1376	1384	1392	1393	1394	1395	1396	1397
0370	1398	1405	1406	1407	1408	1409	1410	1411

27

(U) MIL IN
(U) MACROS
ALDVT

113	921	251	275	320	344	354	394	404	414	814
114	241	804	614	614	947	903	1060	1050	1072	1098
115	1196	284	290	410	416	532	934	657	757	763
116	308	841	637							
117	947	972								
118	1003	1009	1031	1072	1096	1121	1143	1244	1272	1299
119	908	912								
120	459	809	905	4310	1349	1360				
121	354	366	382	469	512	506	910	624	727	733
122	781	822	965	954	1040	1056	1104	1151	1233	1256
123	241	251	264	955	355	370	479	501	565	598
124	263	253	343	1494	1147					
125	866	853	617	629	663	676	493	704	874	1180
126	1026	1109	1116	1116	1150	1163	1161	1267	1294	1331
127	960	946								
128	209	964	1313							
129	347	361	375	387	463	576				
130	422	438	446	462	544	1047	1064	1079		
131	1316	1045	1054	1062	1070	1077	1086	1126	1178	1190
132	1210	1220	1230	1251						
133	479	584	722	769	775	811	816	893		
134	1135	1172								
135	214	1308	282	265	285	291	350	383	411	417
136	193	242	242	531	507	511	625	658	728	733
137	500	513	531	539	577	611	625	658	728	733
138	744	744	782	820	806	823	842	868	867	909
139	913	948	986	913	1018	1032	1097	1105	1122	1182
140	1245	1257	1273	1286	1300	1327	1342	1350	1361	
141	1370									
142	1384	361	375	387	422	618	446	462	483	544
143	1064	1079	1172	1172	1210	1220	1236	1251		
144	281	294	284	284	290	284	290	382	410	489
145	532	539	624	651	657	739	737	781	799	805
146	822	843	847	859	948	912	945	972	1016	1096
147	1104	1121	1151	1166	1256	1272	1285	1326	1341	1360
148	174	354	368	566	610	727	733	1003	1145	1244
149	175	899	965	990	1009	1009	1233	1312		
150	176	1040	1056	1072						
151	183	899								
152	194	274	364	403	518	520	638	645	705	767
153	793	820	818	897	902	1304				
154	172	907								

163	911	1274	1318	1348	1359	1348	1355	1382	1200	1208
164	920	959	965	1018	1025	1108	1115	1182		
165	1293	1330	1326							
166	179	1303								
167	159	945	970							
168	154	218								
169	206									
170	1001	1024	1094	1119	1183	1166	1242	1297	1364	1338
171	1391									
172	202	1374								
173	1390									
174	916	1394								
175	1347	1398								
176	885									
177	324	430	451	470	552	670	700	1051	1080	1083
178	1215	1225	1247							
179	1392									
180	947	942	1306							
181	1352	1358	1364							
182	1237									
183	981									
184	394	403	518	526	637	645	745	767	793	829
185	840	500	568	993	999	1092	1141	1230	1240	1322
186	1311									
187	177	278	334	944						
188	289	320								
189	906	906	991	1010	1041	1057	1073	1234	1311	
190	900									
191	202	264	260	410	416	532	530	651	657	763
192	210	276	347	361	375	387	422	436	462	483
193	544	576	1047	1084	1079	1031	1072	1094	1096	1143
194	38	1001	1023	1009	1029	1031	1072	1297	1304	1328
195	1145	1164	1164	1244	1244	1274	1272	1399	1304	1328
196	1341									
197	39	628	910	912	1370	1393	1394	1395	1397	1398
198	47	685	1376	1384						
199	41	976	1245	1024	1022	1074	1074	1126	1170	1190
200	1220	1230	1251							
201	1392									
202	859	607	609	902	905	1306	1310	1349	1352	1360
203	1364									
204	42	422	454	474	552	670	685	706	1051	1063
205	1215	1225	1247							
206	75									
207	259	270	278	324	334	394	403	500	518	560
208	637	645	745	751	787	793	815	897	902	910
209	920	944	959	993	999	1018	1025	1092	1105	1141
210	115	1162	1230	1244	1260	1266	1268	1293	1300	1322
211	1334	1352	1354	1364	1354					

(U) SP CONTROL
ENAB+1

	READ	78											
	WRITE LOW	79	879	885	1037								
	WRITE WORD	82	242	218	296	320	430	454	470	552	670	685	700
		911	945	970	981	1041	1029	1051	1068	1083	1094	1119	1143
		1166	1200	1205	1215	1225	1242	1247	1270	1278	1297	1304	1314
(U)	SPA MUX	1318	1330	1348	1359	1370	1392	1393	1395	1396	1397	1398	
	BA	24											
	RO	27	193	866									
		29	342	354	368	382	394	403	478	489	499	506	512
		518	526	560	568	584	596	610	624	637	640	722	727
		733	739	745	751	769	775	781	787	793	811	816	822
		829	835	853	981	985	990	993	999	1014	1019	1026	1037
		1040	1056	1092	1104	1109	1118	1135	1141	1151	1150	1163	1172
		1233	1236	1240	1256	1261	1267	1281	1285	1289	1294	1322	1320
		1331	1336										
	ROM SPA	30	202	208	218	284	290	296	320	347	361	375	387
		410	416	422	430	438	446	454	462	470	483	532	538
		544	552	576	581	587	570	685	700	757	763	799	805
		841	847	859	879	885	891	897	899	902	904	905	908
		910	911	912	920	945	947	959	965	970	972	976	1001
		1003	1009	1018	1025	1029	1031	1045	1047	1051	1054	1062	1064
		1069	1070	1072	1077	1079	1083	1086	1094	1096	1100	1110	1119
		1121	1120	1143	1145	1155	1162	1166	1168	1178	1184	1190	1200
		1205	1210	1215	1220	1220	1230	1242	1244	1247	1251	1200	1200
		1270	1272	1278	1288	1293	1297	1299	1300	1306	1310	1313	1316
		1318	1330	1335	1336	1341	1348	1349	1352	1352	1359	1300	1300
		1370	1376	1384	1392	1393	1394	1395	1390	1397	1398		
	RS	28	214	241	251	259	264	270	270	320	334	940	950
		900	900	1308	1314								

36

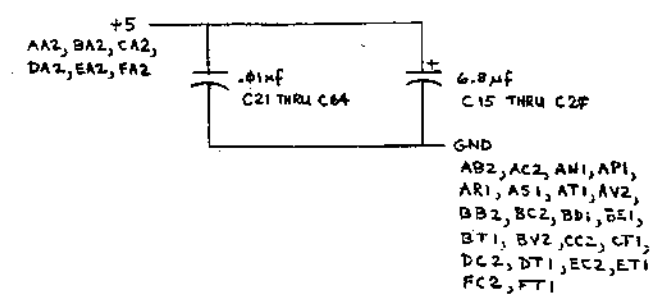
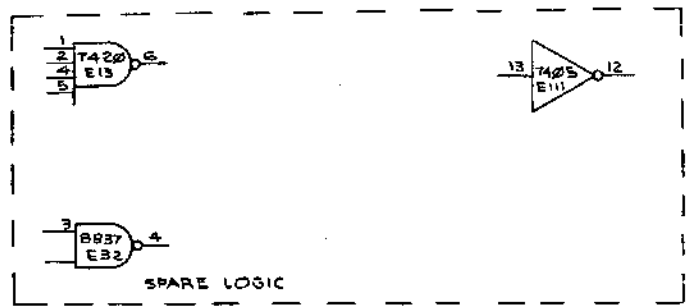
END OF MICPO CODE ASSEMBLY

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS PARTS LIST				QUANTITY / VARIATION															
MADE BY D. HEALY		CHECKED D. HEALY		SECTION															
DATE 10/1/75		DATE 10/1/75		1															
ENG R. Barry		PROD R. K. Peterson		ISSUED SECT.															
DATE 10-22-75		DATE 10/22/75		1															
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION																	
1	D-CS-M7263-0-1	KD11-D PROCESSOR MODULE HEX		1															
2	K-WL-KD11-D-1	AWT ETCH LIST		REF															
3	K-MP-KD11-D-2	FLOW DIAGRAM		REF															
4	A-WT-KD11-D	AWT REVISION STATUS		REF															
5	K-RL-KD11-D-3	ROM LISTING		REF															
TITLE KD11-D PROCESSOR		ASSY NO. NONE		SIZE A	C. PL		NUMBER KD11-D-0		REV.		ECO NO.								
		SHEET 1 OF 1		DIST.															

DEC FORM DEC 16-(325)-1031-N870
DRA 110

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D
C
B
A

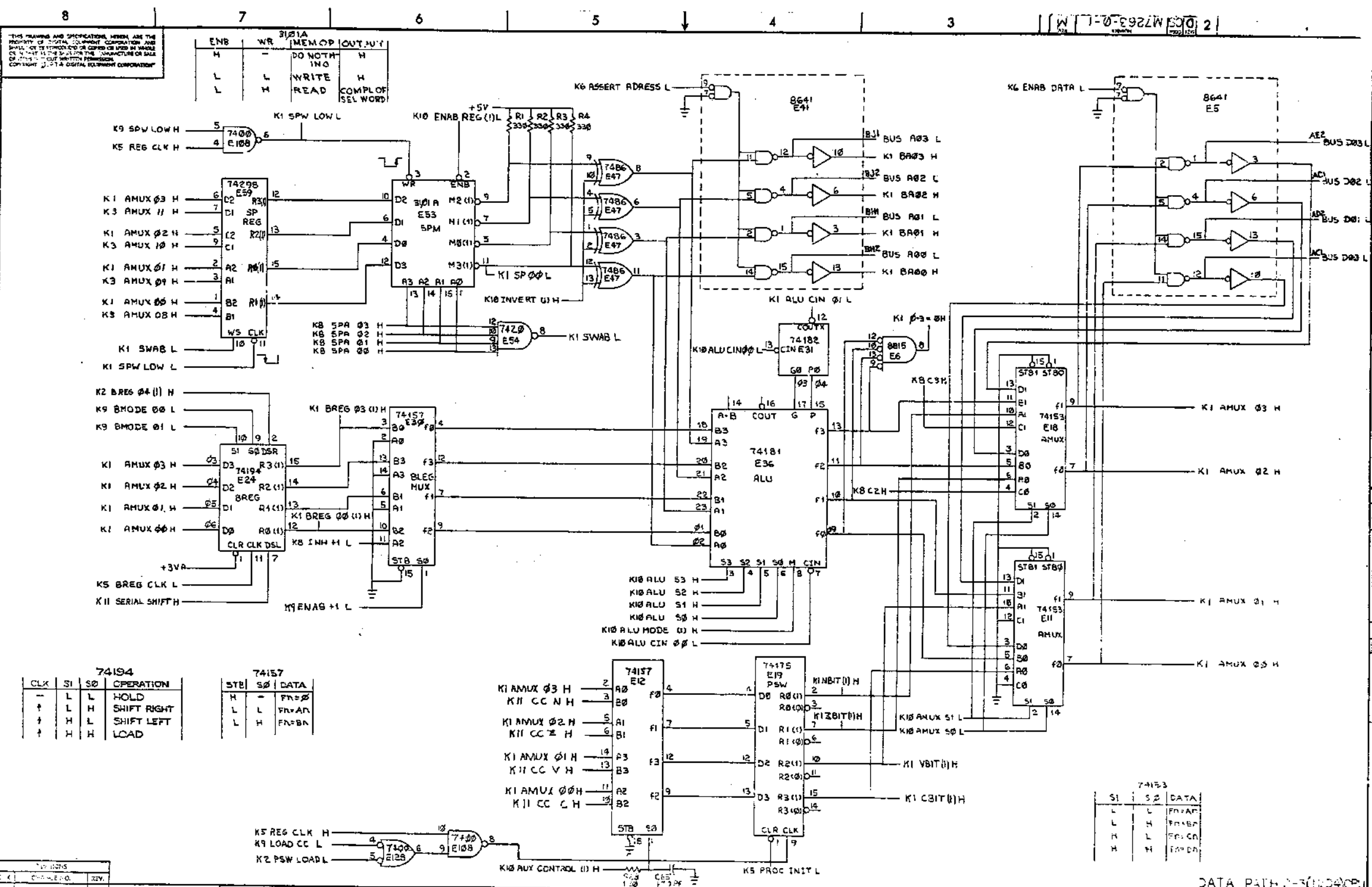


QTY	DESCRIPTION	REF. DESIG.	QTY	DESCRIPTION	REF. DESIG.
1	E50, E51, E52, E53	I.C. DEC 3101A	1910853	52	
1	E55, E73, E87, E108, E113, E121, E123, E128	I.C. DEC 7474	1915447	53	
1	E56, E57, E58, E59	I.C. DEC 74290	1911271	54	
1	E82, E88, E79, E89, E105, E116, E117, E124	I.C. DEC 7402	1909004	55	
2	E89, E122	E67	1911324	56	
2	E89, E95, E96	I.C. DEC 748153	1910547	57	
2	E77, E93, E102	I.C. DEC 74081	1909849	58	
1	E78, E106, E127	I.C. DEC 7404	1909886	59	
6	E80, E100, E104, E118, E109, E125	I.C. DEC 7400	1905575	60	
1	E84	I.C. DEC 74582	1912388	61	
2	E88, E112	E86	1910091	62	
1	E72	I.C. DEC 74580	1912388	63	
1	E88	I.C. DEC 7427	1910879	64	
1	E90	I.C. DEC 7442	1910046	65	
1	E91	I.C. DEC 74580	1910532	66	
2	E83, E98	I.C. DEC 9002	1910951	67	
2	E103, E110	I.C. DEC 74123	1910436	68	
3	E111, E130, E136	E136	1909950	69	
1	E126	E134	1910489	70	
1	E7	I.C. DEC 256 x 4 TS	23A3142-95	71	
1	E48	I.C. DEC 256 x 4	23A21A2	72	
2	E88, E92	I.C. DEC 256 x 4	23A22A2	73	
1	E99	I.C. DEC 256 x 4	23A27A2	74	
1	E70	I.C. DEC 256 x 4	23A23A2	75	
1	E75	I.C. DEC 256 x 4	23A28A2	76	
2	E78, E99	I.C. DEC 258 x 4 TS	23A29A2-05	77	
1	E81	I.C. DEC 256 x 4	23A25A2	78	
1	E87	I.C. DEC 256 x 4	23A24A2	79	
1	E93	I.C. DEC 512 x 4 TS	23A81A9	80	
1	E94	I.C. DEC 32 x 8 TS	23A15A1-85	81	
1	E71	I.C. DEC 256 x 8 TS	23B8501	82	
1	E99	I.C. DEC 258 x 8 TS	23B787	83	
1	E114	I.C. DEC 256 x 8 TS	23B9591	84	
1	E126	I.C. DEC 256 x 8 TS	23B8401	85	
1	E128	I.C. DEC 258 x 8 TS	23B8301	86	
1	E132	I.C. DEC 256 x 8 TS	23B8601	87	
1	E138	I.C. DEC 256 x 8 TS	23B8101	88	
1	MODULE HANDLE	1219711-02	19		
12	EYELETS	906002-01	90		
1	81	JUMPER, MACH IMS	9005185	91	
18	18	PIN, WIRE-WRAP, 025 50	9009149	92	
1	C10	CAPACITOR 150µV 50V 5%	102222	93	
1	R77	RES, 30K, 1/4W, 5%	102229	94	
1	C68	CAP, 100µV, 100V, 5%	102222	95	
1	C67	CAP, 220µV, 100V, 5%	102222	96	

DCS M7263-0-1 M

CHK	CHANGE NO	REV

TITLE	KD11-D	SIZE	CODE	NUMBER	PI
SCALE		SHEET	OF	14	7
		DIST			



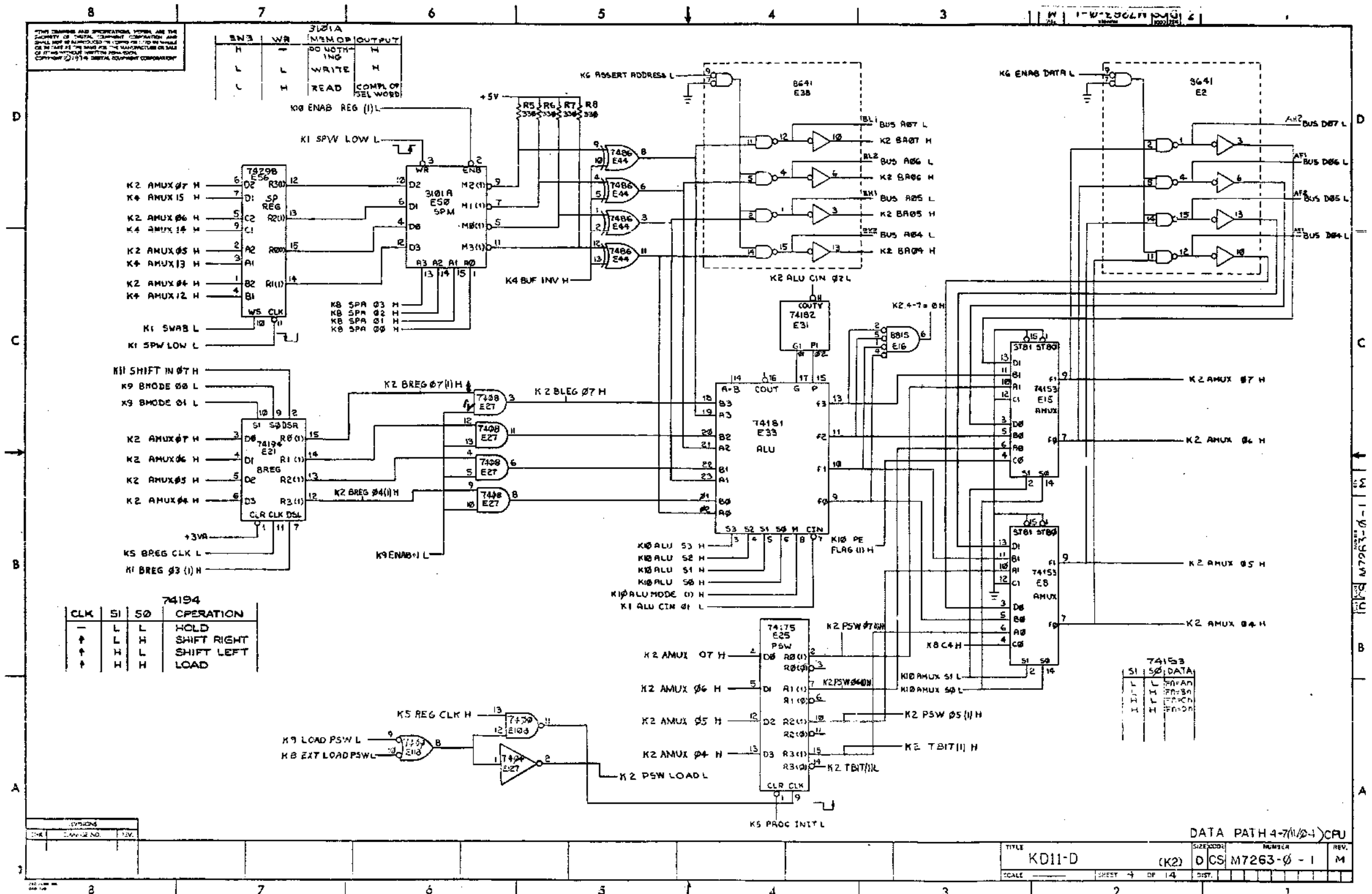
CLK	S1	S0	OPERATION
-	L	L	HOLD
↑	L	H	SHIFT RIGHT
↑	H	L	SHIFT LEFT
↑	H	H	LOAD

STB	S0	DATA
H	-	FR=0
L	L	FR=AR
L	H	FR=BA

Signal	Pin	IC	Pin
K1 AMUX 03 H	2	74157	A0
K11 CC N H	3	74157	B0
K1 AMUX 02 H	5	74157	A1
K11 CC Z H	6	74157	B1
K1 AMUX 01 H	14	74157	A3
K11 CC V H	13	74157	B3
K1 AMUX 00 H	11	74157	A2
K11 CC C H	12	74157	B2

S1	S0	DATA
L	L	FR=AR
L	H	FR=BA
H	L	FR=CA
H	H	FR=DA

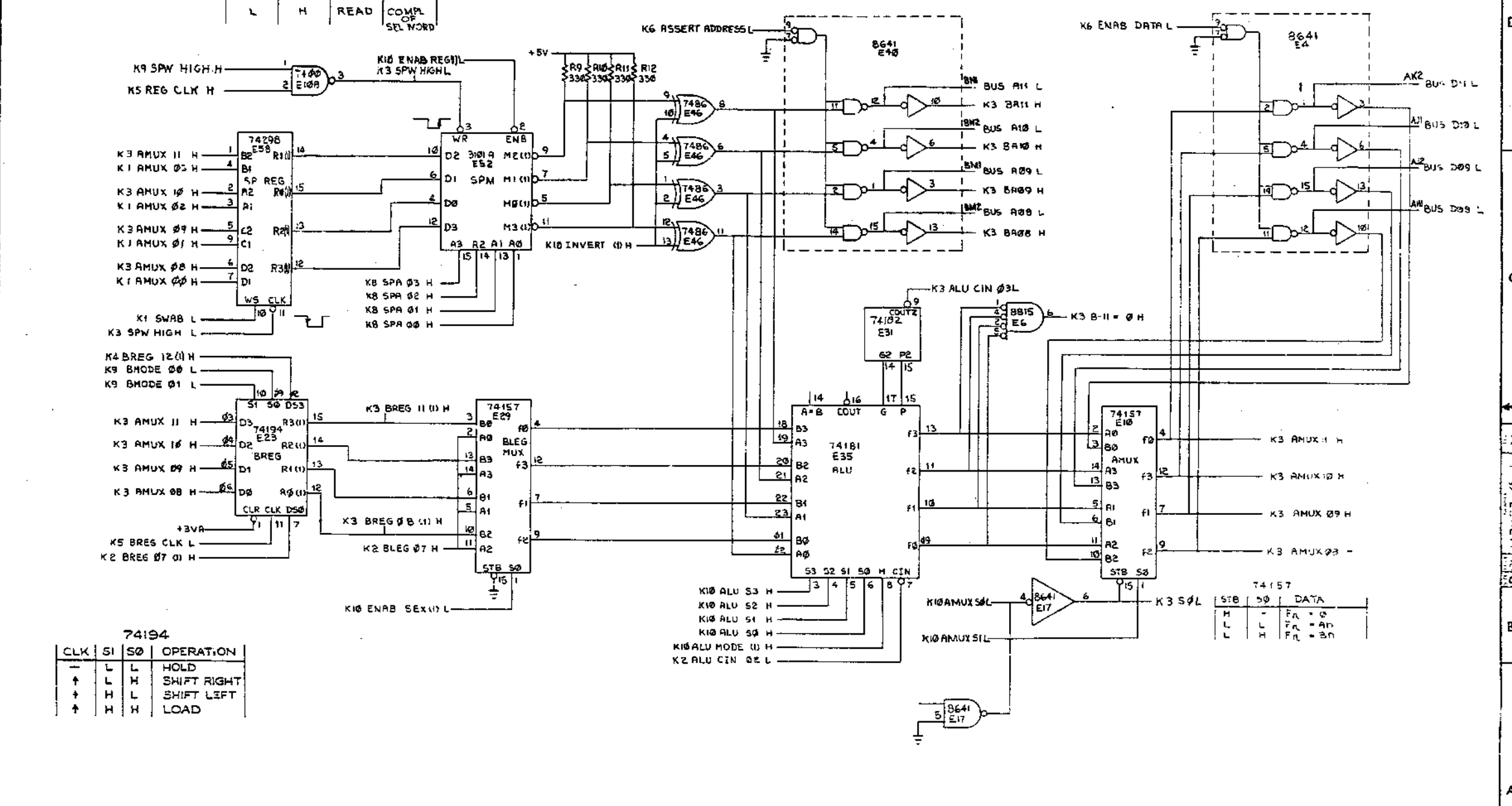
TITLE	KDI1-D		
SIZE CODE	(K1)	DCS	M7263-0-1
NUMBER	SHEET 3 OF 14		
REV.	1		



DATA PATH 4-7(1/2-4) CPU
 TITLE: KD11-D (K2)
 SIZE: 0 CS1 M7263-0 - 1
 SCALE: SHEET 4 OF 14

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ENB	WR	MEM OP	OUTPUT
H	-	DO NOTHING	H
L	L	WRITE	H
L	H	READ	COMPL OF SEL WORD



74194

CLK	S1	S0	OPERATION
-	L	L	HOLD
↑	L	H	SHIFT RIGHT
↑	H	L	SHIFT LEFT
↑	H	H	LOAD

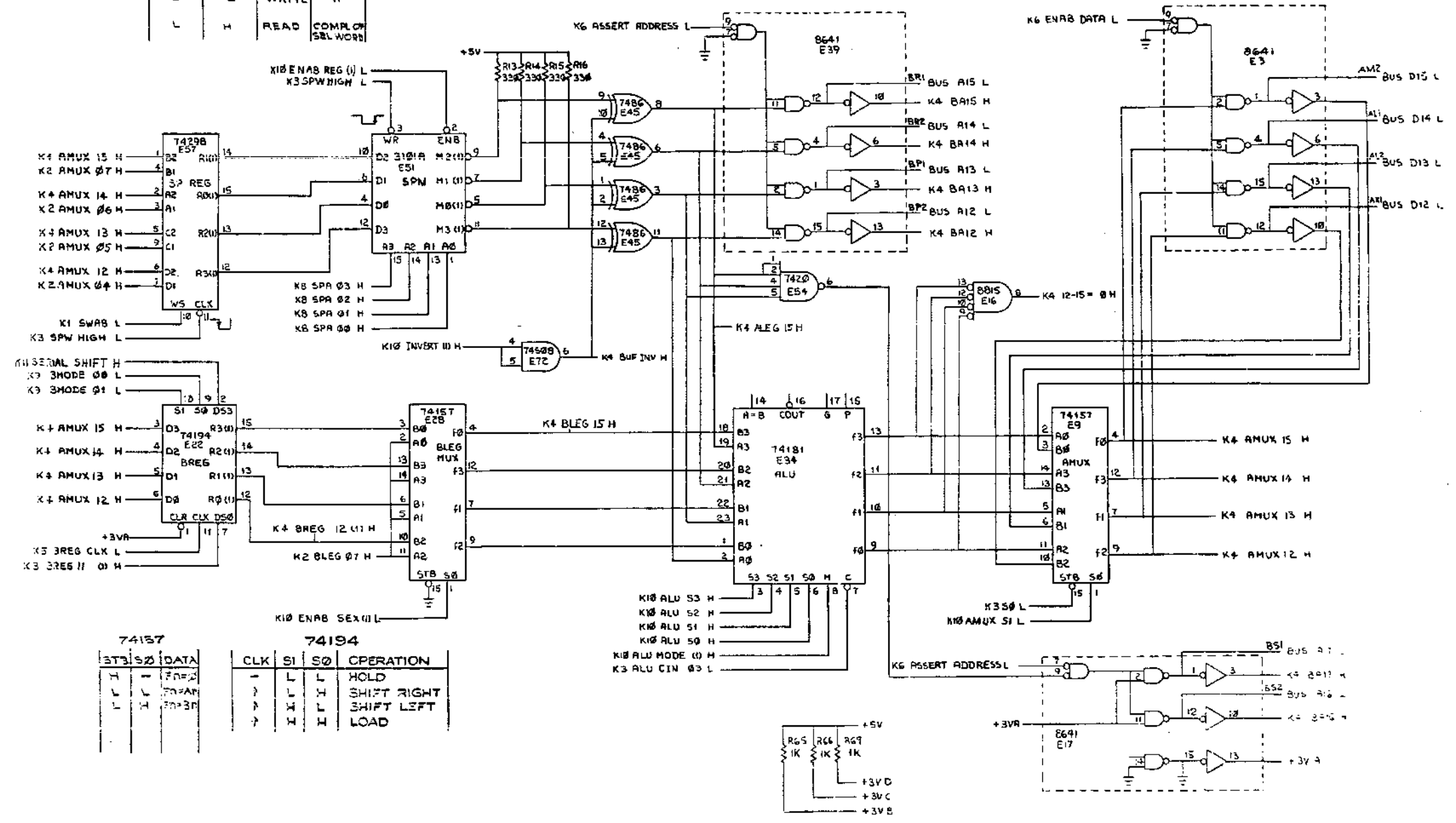
74157

STB	S0	DATA
H	-	F _A = Q
L	L	F _A = A _n
L	H	F _A = B _n

CHK	CHANGE NO.	REV.

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ENS	WR	MEMOP	OUTPUT
H	-	DO NOTH ING	H
L	L	WRITE	H
L	H	READ	COMPLOR SBL WORD



74157

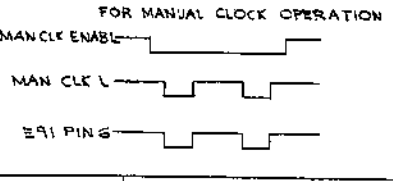
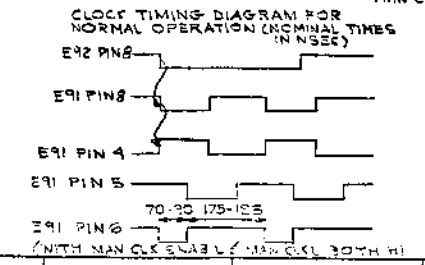
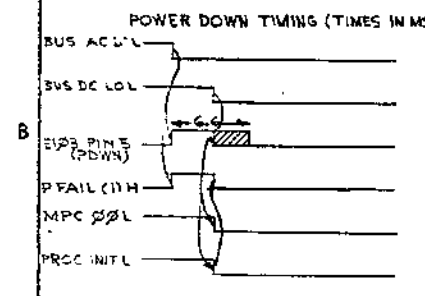
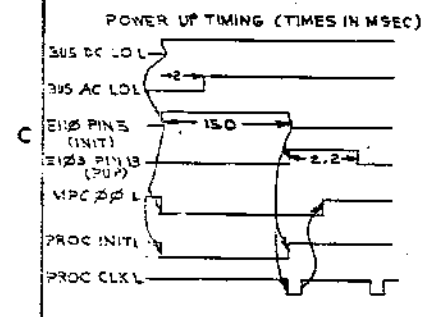
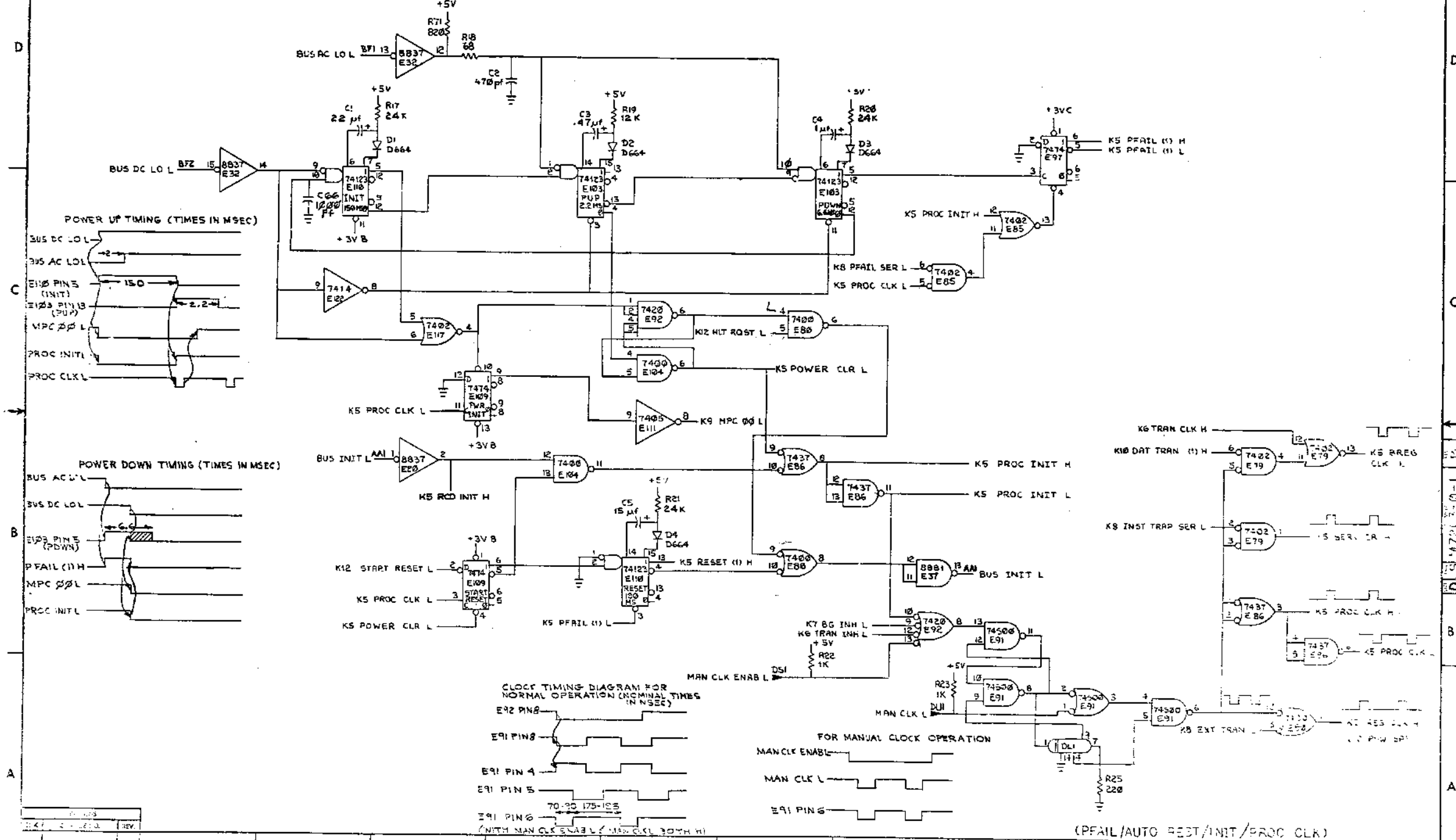
STB	S0	DATA
H	-	FR=2
L	L	FR=AN
L	H	FR=3P

74194

CLK	S1	S0	OPERATION
-	L	L	HOLD
-	L	H	SHIFT RIGHT
-	H	L	SHIFT LEFT
-	H	H	LOAD

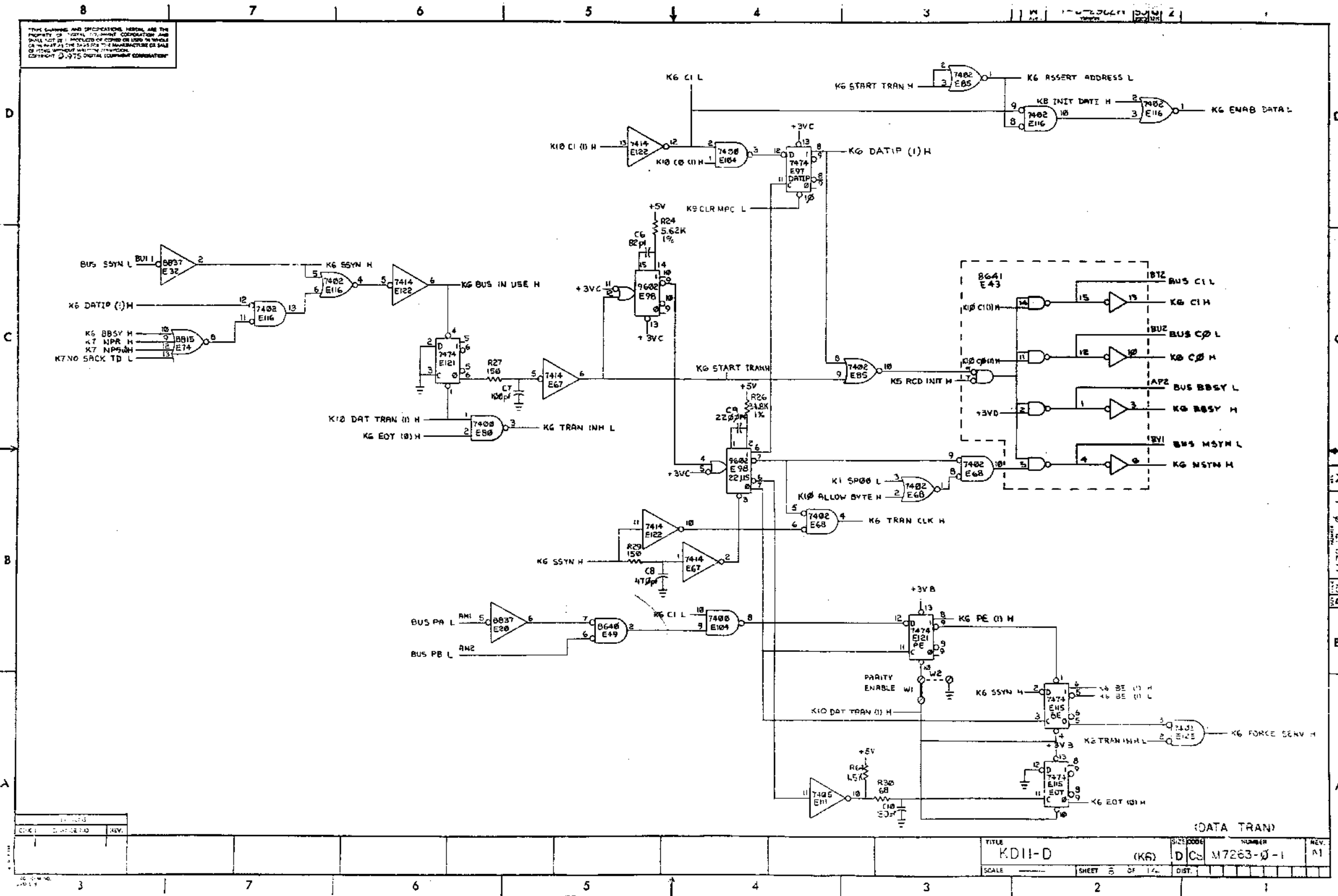
TITLE	SIZE	CODE	NUMBER	REV.
KDI-D	(K4)	DCS M7263-0-1	M	

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(PFAIL/AUTO REST/INIT/PROC CLK)

TITLE	KD11-D	SIZE/SCALE	(K5)	NUMBER	DUS M7263-0-1	REV	M
SCALE		SHEET	7	OF	14	DIST.	

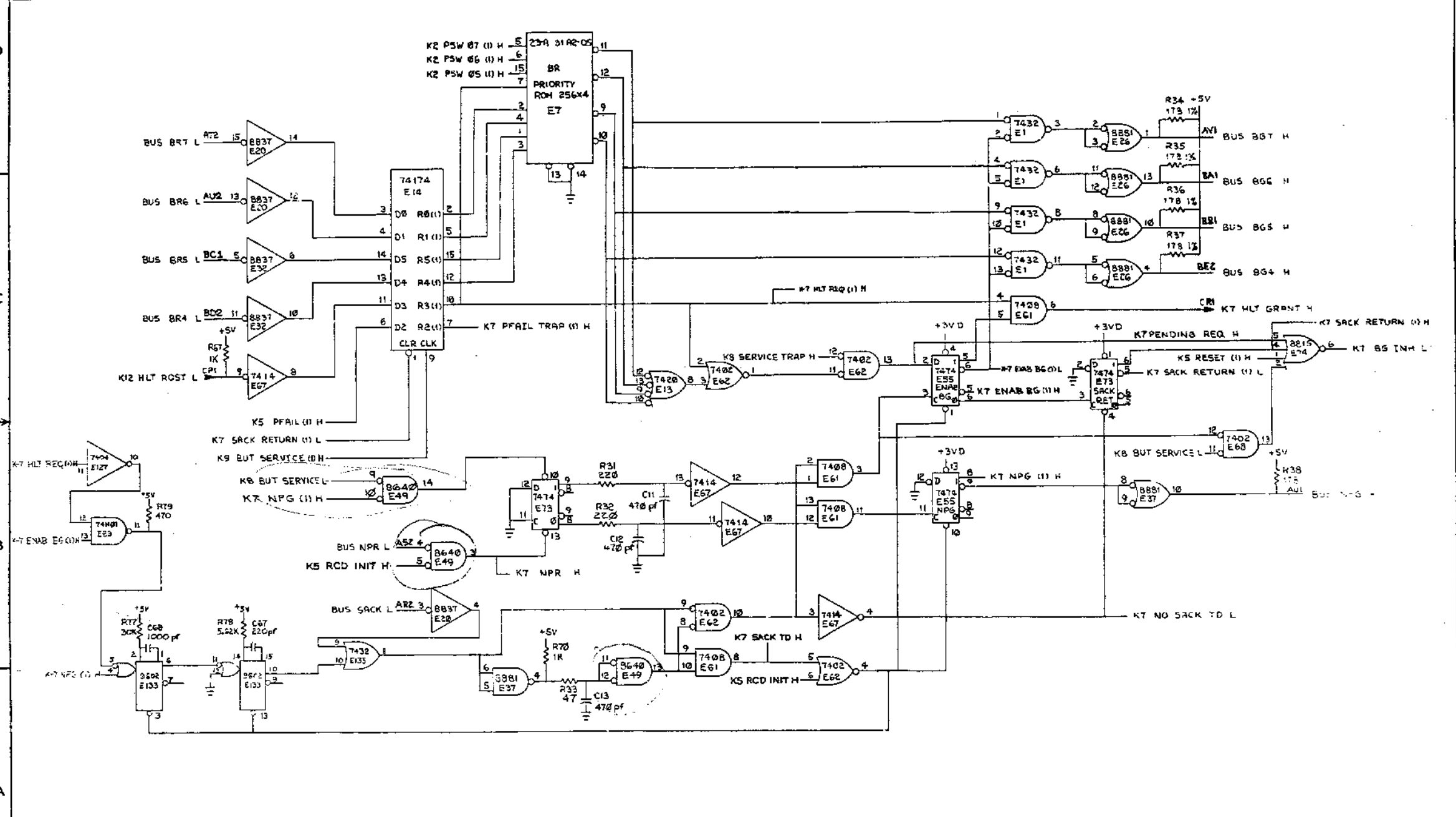


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REV.	DATE	BY

TITLE	KD11-D (K6)	SIZE	D	NUMBER	M7263-0-1	REV.	A1
SCALE		SHEET	5	OF	14	DIST.	

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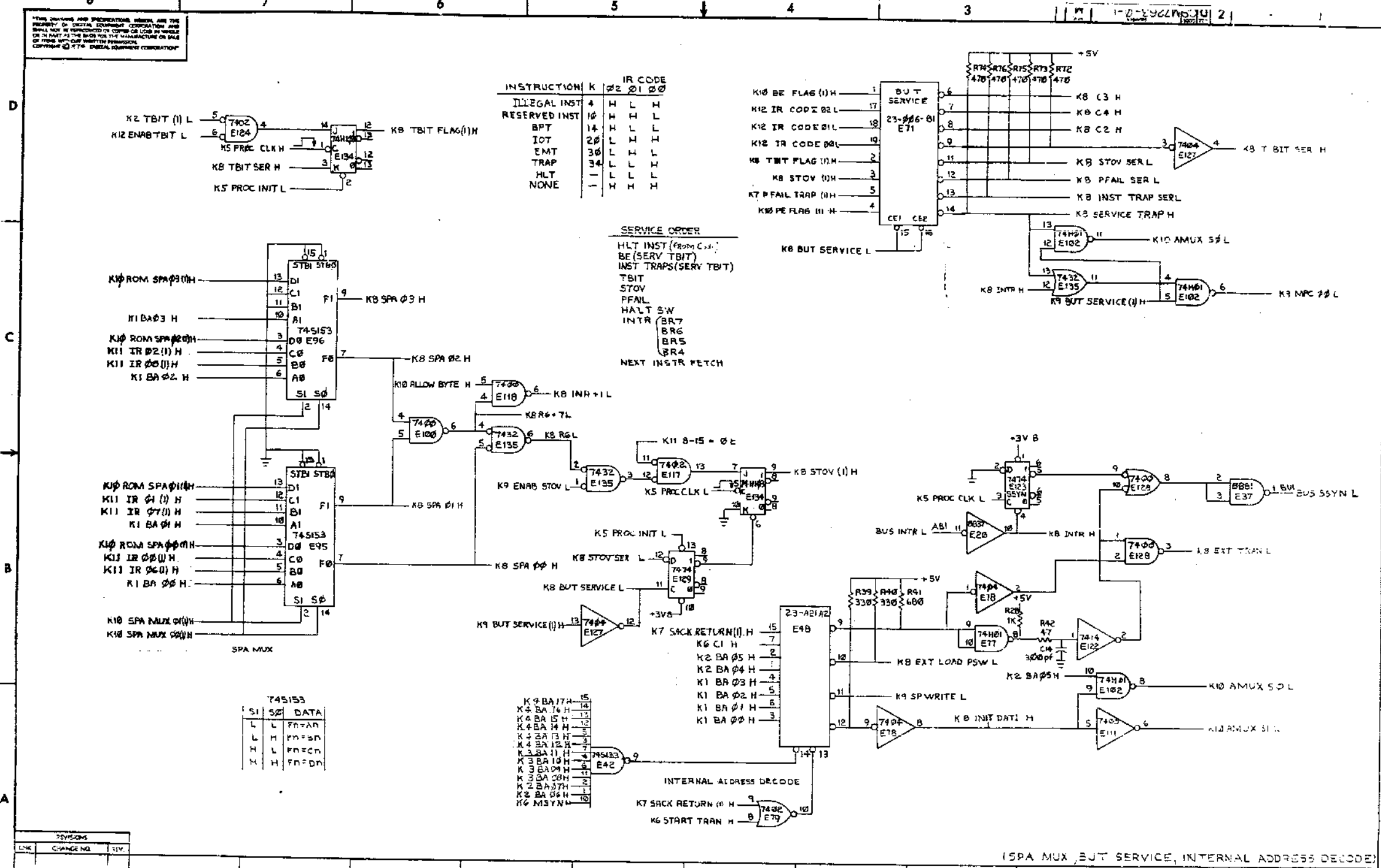


REV. NO.			DATE			BY			CHK			APP			TITLE			SHEET			NUMBER			REV.		
(PRIORITY ARBITRATION)															TITLE			SHEET			NUMBER			REV.		
KD11-9															(K7)			D10S			W7263-0-1			M		
SCALE															SHEET			OF			1-4			DST.		

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INSTRUCTION	K	IR	CODE
ILLEGAL INST	4	H	L H
RESERVED INST	10	H	L L
BPT	14	H	L L
IOT	20	L	L H
EMT	30	L	L L
TRAP	34	L	L L
HLT	-	L	L L
NONE	-	H	L H

SERVICE ORDER
 HLT INST (From C₁)
 BE (SERV TBIT)
 INST TRAPS (SERV TBIT)
 TBIT
 STOV
 PFAIL
 HALT SW
 INTR (BR7, BR6, BR5, BR4)
 NEXT INSTR FETCH



745153

SI	SD	DATA
L	L	Fn=AN
L	H	Fn=BN
H	L	Fn=CN
H	H	Fn=DN

INTERNAL ADDRESS DECODE

K 9 BA 17 H	15
K 4 BA 16 H	14
K 4 BA 15 H	13
K 4 BA 14 H	12
K 4 BA 13 H	11
K 4 BA 12 H	10
K 3 BA 11 H	9
K 3 BA 10 H	8
K 3 BA 09 H	7
K 2 BA 08 H	6
K 2 BA 07 H	5
K 2 BA 06 H	4
K 2 BA 05 H	3
K 6 MSYN	2

REVISIONS

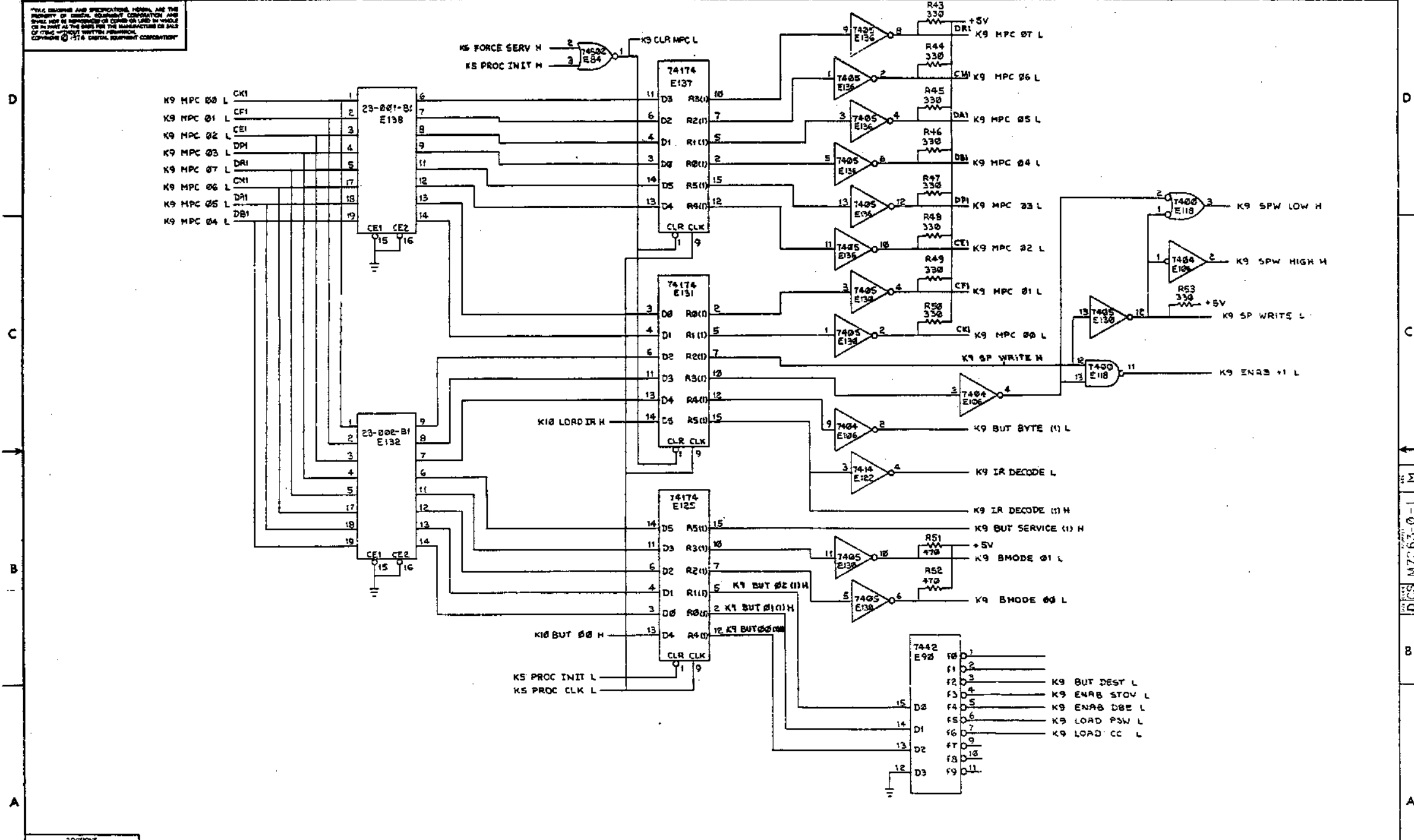
LINK	CHANGE NO.	REV.

(SPA MUX, BUT SERVICE, INTERNAL ADDRESS DECODE)

TITLE	SIZE	CODE	NUMBER	REV.
KDI1-D	(K3)	DJCS	M7283-2-1	21

SCALE: --- SHEET 13 OF 14 DIST. ---

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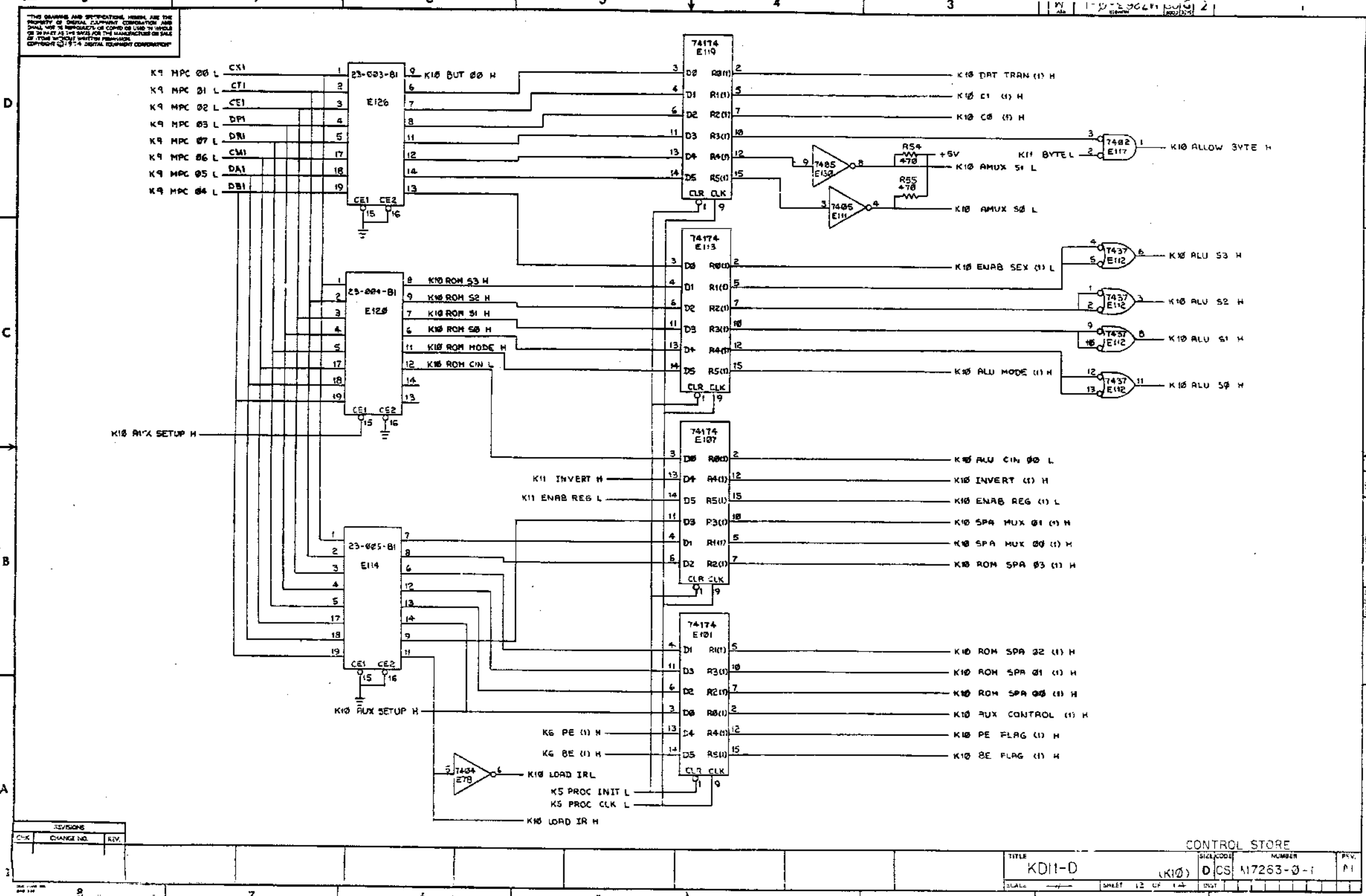
REV.	CHANGE NO.	DESCRIPTION

TITLE	SCALE	SHEET	OF	DIST.	REV.
KD11-D		11	14		M

(CONTROL STORE)

DCS M7263-0-1 M

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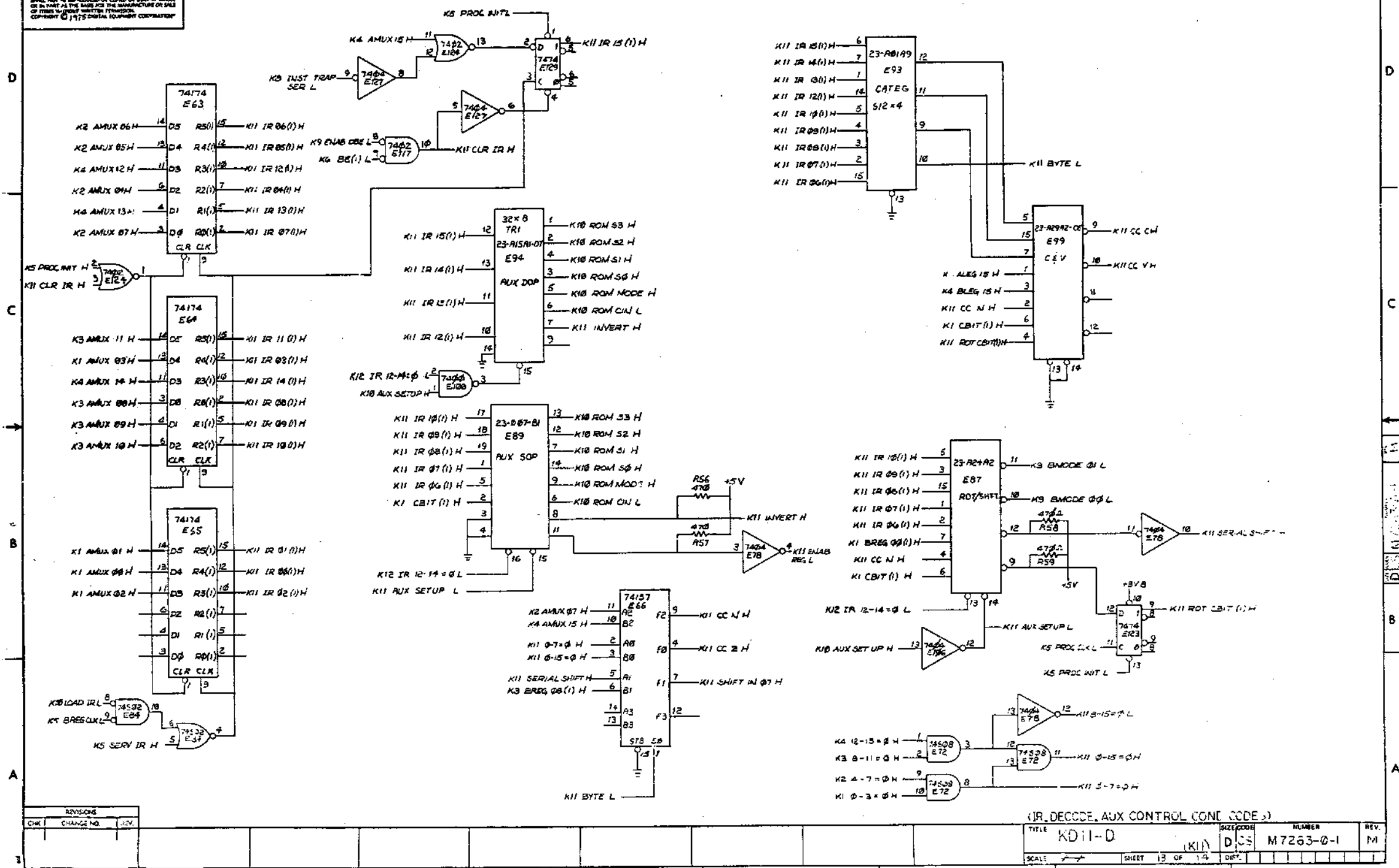


REVISIONS		
CHK	CHANGE NO.	REV.

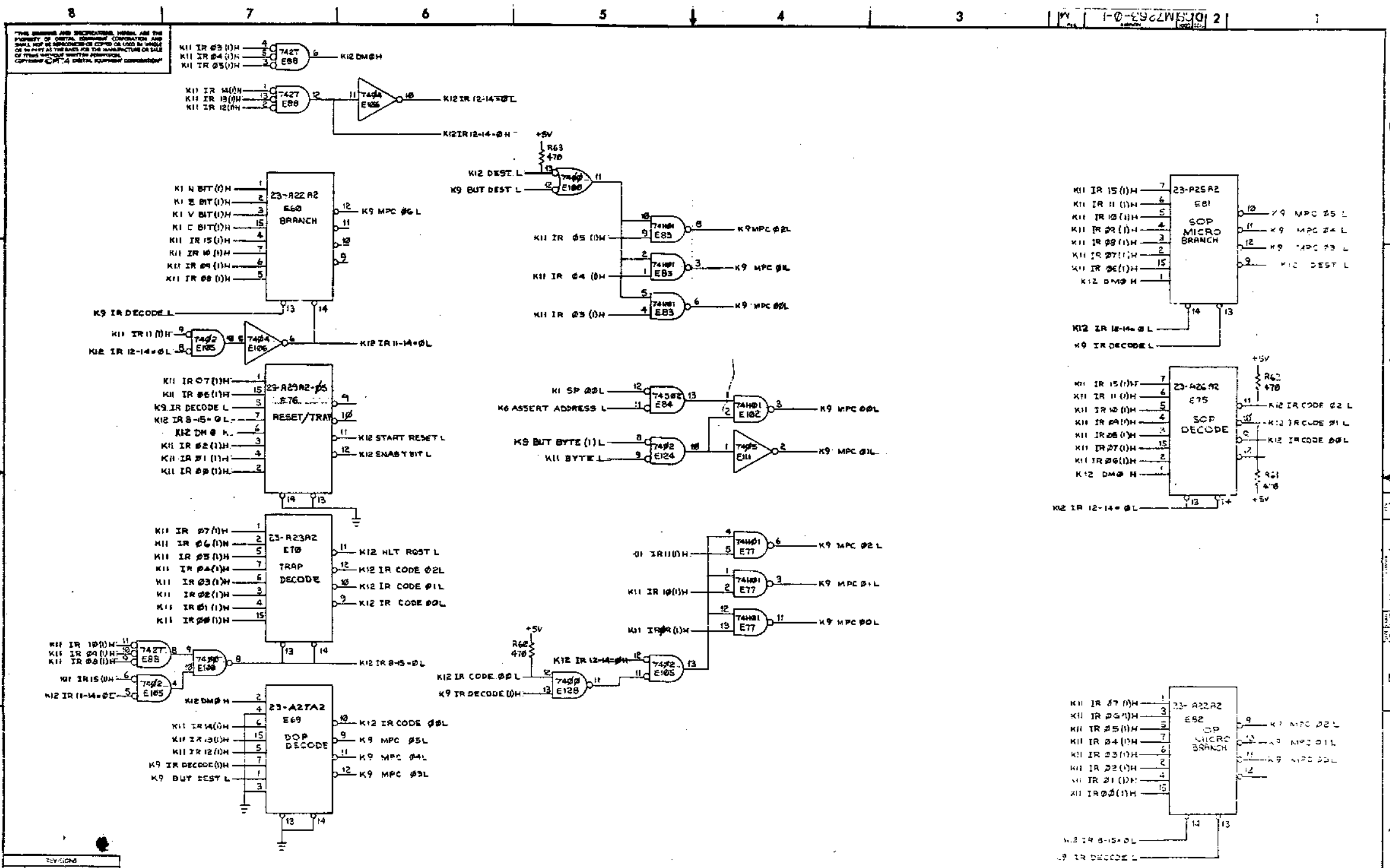
CONTROL STORE			
TITLE	SIC/CODE	NUMBER	REV.
KD11-D	(K10)	D/CS 117263-0-1	01
DATE	SHEET 12 OF 14	OUT	

200

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CHK	CHANGE NO.	REV.	TITLE	NUMBER	REV.
			KD11-D	M7263-01	M



REV	CHANGES			TITLE					DATE	PAGE	OF	TOTS	CUST	DISEG	NUMBER	REV
	NO.	DESCRIPTION	DATE	IR DECODE AUX CONTROL AND CODES												
				KD.1-D (K12)												


202

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THIS FACE SHEET CONTAINS THE FOLLOWING CHIP NUMBERS:

CHIP	SHEET #
23-A01A9	2 - 16
23-A15A1	17
23-A21A2	13 - 25
23-A22A2	26 - 33
23-A23A2	34 - 41
23-A24A2	42 - 49
23-A25A2	50 - 57
23-A26A2	58 - 65
23-A27A2	66 - 73
23-A29A2	74 - 81
23-A31A2	82 - 89
23-001B1	90 - 97
23-002B1	98 - 105
23-003B1	106 - 113
23-004B1	114 - 121
23-005B1	122 - 129
23-006B1	130 - 137
23-007B1	138 - 145

FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
KDII - D				
PARTS LIST				
DRN. <i>J. Hasey</i>	DATE 10/20/75	 DIGITAL EQUIPMENT CORPORATION <small>MAYNARD, MASSACHUSETTS</small> TITLE ROM LISTING KDII - D PDP 11/04		
CHK'D. <i>J. Hasey</i>	DATE 10/22/75			
ENG. <i>R. Barry</i>	DATE 10-23-75			
PROJ. ENG. <i>B. BERNSTEIN</i>	DATE 10-23-75			
PROD. <i>R. K. Patton</i>	DATE 10/22/75			
NEXT HIGHER ASSEMBLY B-DD-KDII-D				
SCALE		SIZE/CODE K CS	NUMBER KDII-D-3	REV.
SHEET 1 OF 145		DIST.		

REV.	
CHANGE NO.	
CHK	

DEC FORM NO. DRB 109

203

DEC PART NUMB: 23-001A9
ORIGINATOR: JOHN BLEDM
DATE OF ORIGIN: 10-28-74

ROM PATTERN SPEC

~~PAGE 1 OF 1~~ 2

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
0	000	1111	17
1	001	1100	14
2	002	1111	17
3	003	1000	10
4	004	1111	17
5	005	1111	17
6	006	1011	13
7	007	1011	13
8	010	1101	15
9	011	1111	17
10	012	1001	11
11	013	1111	17
12	014	1111	17
13	015	1111	17
14	016	1011	13
15	017	1011	13
16	020	1111	17
17	021	1111	17
18	022	1111	17
19	023	1111	17
20	024	1111	17
21	025	1111	17
22	026	1011	13
23	027	1011	13
24	030	1110	16
25	031	1111	17
26	032	1010	12
27	033	1111	17
28	034	1110	17
29	035	1110	17
30	036	1011	13
31	037	1011	13
32	040	1111	17
33	041	1100	14
34	042	1111	17
35	043	1000	10

DPC PART NUMBER 23-AM1A9
 ORIGINATOR JOHN BLEOM
 DATE OF ORIGIN 12-28-74

FORM PATTERN SPEC

~~FORM PATTERN SPEC~~ 3

DECIMAL LOC	DECIMAL LOC	BINARY DATA	DECIMAL DATA
36	P44	1111	17
37	P45	1111	17
38	P46	1011	13
39	P47	1011	13
40	P50	0111	07
41	P51	1111	17
42	P52	0011	03
43	P53	1111	17
44	P54	1111	17
45	P55	1111	17
46	P56	1011	13
47	P57	1011	13
48	P62	1111	17
49	P61	1111	17
50	P62	1111	17
51	P63	1111	17
52	P64	1111	17
53	P65	1111	17
54	P64	1011	13
54	P67	1011	13
56	P70	0100	04
57	P71	1111	17
58	P72	0000	00
59	P73	1111	17
60	P74	1111	17
61	P75	1111	17
62	P76	1011	13
63	P77	1011	13
64	P78	1111	17
65	P79	1111	17
66	P80	1011	13
67	P81	1011	13
68	P82	0101	05
69	P83	0101	05
70	P84	0100	04
71	P87	0100	04

DPC PART NUMBER 23-AM1A9
 ORIGINATOR JOHN BLEOM
 DATE OF ORIGIN 12-28-74

FORM PATTERN SPEC

~~FORM PATTERN SPEC~~ 4

DECIMAL LOC	DECIMAL LOC	BINARY DATA	DECIMAL DATA
72	P88	1111	16
73	P89	1111	16
74	P90	1010	12
75	P91	1010	12
76	P92	0101	05
77	P93	0101	05
78	P94	0100	04
79	P95	0100	04
80	P96	1110	14
81	P97	1110	14
82	P98	1010	12
83	P99	1010	12
84	P100	0101	05
85	P101	0101	05
86	P102	0100	04
87	P103	0100	04
88	P104	1110	14
89	P105	1110	14
90	P106	1010	12
91	P107	1010	12
92	P108	0101	05
93	P109	0101	05
94	P110	0100	04
95	P111	0100	04
96	P112	1110	14
97	P113	1110	14
98	P114	1010	12
99	P115	1010	12
100	P116	0101	05
101	P117	0101	05
102	P118	0100	04
103	P119	0100	04
104	P120	1110	14
105	P121	1110	14
106	P122	1010	12
107	P123	1010	12

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FORM PATTERN SPEC

DEC PART NUMBER 23-42119
ORIGINATOR JOHN BUCHAN
DATE OF ORIGIN 12-28-74

ORIGINAL LOC	DECIMAL LOC	HIJARY DATA	ACTAL DATA
108	154	0101	05
109	155	0101	05
110	156	0100	04
111	157	0100	04
112	167	1110	10
113	161	1110	10
114	162	1010	12
115	163	1010	12
116	164	0101	05
117	165	0101	05
118	166	0100	04
119	167	0100	04
120	170	1110	10
121	171	1110	10
122	172	1010	12
123	173	1010	12
124	174	0101	05
125	175	0101	05
126	176	0100	04
127	177	0100	04
128	200	1111	17
129	201	1100	14
130	202	1111	17
131	203	1000	10
132	204	1111	17
133	205	1111	17
134	206	1011	13
135	207	1011	13
136	210	1110	10
137	211	1111	17
138	212	1010	12
139	213	1111	17
140	214	1111	17
141	215	1111	17
142	216	1011	13
143	217	1011	13

6

FORM PATTERN SPEC

DEC PART NUMBER 23-42119
ORIGINATOR JOHN BUCHAN
DATE OF ORIGIN 12-28-74

ORIGINAL LOC	DECIMAL LOC	HIJARY DATA	ACTAL DATA
144	220	1111	17
145	221	1111	17
146	222	1111	17
147	223	1111	17
148	224	1111	17
149	225	1111	17
150	226	1011	13
151	227	1011	13
152	230	0101	05
153	231	1111	17
154	232	0001	01
155	233	1111	17
156	234	1111	17
157	235	1111	17
158	236	1011	13
159	237	1011	13
160	240	1001	11
161	241	1100	14
162	242	1111	17
163	243	1000	10
164	244	1111	17
165	245	1111	17
166	246	1011	13
167	247	1011	13
168	250	0111	07
169	251	1111	17
170	252	0011	03
171	253	1011	13
172	254	1111	17
173	255	1111	17
174	256	1011	13
175	257	1011	13
176	260	1111	17
177	261	1111	17
178	262	1111	17
179	263	1111	17

206

DEC PART NUMBER 23-40119
 ORIGINATOR JOHN WLEBY
 DATE OF ORIGIN 10-28-74

504 PATTERN SPEC

7

OCTAL LOC	DECIMAL LOC	HEX DATA	OCTAL DATA
182	264	1111	17
181	265	1111	17
180	266	1111	13
179	267	1111	13
178	278	1101	15
177	279	1111	17
176	280	1101	11
175	281	1111	17
174	282	1111	17
173	283	1111	13
172	284	1111	13
171	285	1111	13
170	286	1111	16
169	287	1111	16
168	288	1111	16
167	289	1111	12
166	290	1111	12
165	291	1111	12
164	292	1111	12
163	293	1111	12
162	294	1111	12
161	295	1111	12
160	296	1111	12
159	297	1111	12
158	298	1111	12
157	299	1111	12
156	300	1111	12
155	301	1111	12
154	302	1111	12
153	303	1111	12
152	304	1111	12
151	305	1111	12
150	306	1111	12
149	307	1111	12
148	308	1111	12
147	309	1111	12
146	310	1111	12
145	311	1111	12
144	312	1111	12
143	313	1111	12
142	314	1111	12
141	315	1111	12
140	316	1111	12
139	317	1111	12
138	318	1111	12
137	319	1111	12
136	320	1111	12
135	321	1111	12
134	322	1111	12
133	323	1111	12
132	324	1111	12
131	325	1111	12
130	326	1111	12
129	327	1111	12

DEC PART NUMBER 23-40119
 ORIGINATOR JOHN WLEBY
 DATE OF ORIGIN 10-28-74

504 PATTERN SPEC

8

OCTAL LOC	DECIMAL LOC	HEX DATA	OCTAL DATA
214	339	1111	16
213	340	1111	16
212	341	1111	16
211	342	1111	16
210	343	1111	16
209	344	1111	16
208	345	1111	16
207	346	1111	16
206	347	1111	16
205	348	1111	16
204	349	1111	16
203	350	1111	16
202	351	1111	16
201	352	1111	16
200	353	1111	16
199	354	1111	16
198	355	1111	16
197	356	1111	16
196	357	1111	16
195	358	1111	16
194	359	1111	16
193	360	1111	16
192	361	1111	16
191	362	1111	16
190	363	1111	16
189	364	1111	16
188	365	1111	16
187	366	1111	16
186	367	1111	16
185	368	1111	16
184	369	1111	16
183	370	1111	16
182	371	1111	16
181	372	1111	16
180	373	1111	16

DEC PART NUM: 23-03119
 ORIGINATOR: JOHN RUSOM
 DATE OF ORIGIN: 10-28-74

SON PATTERN SPEC

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
252	374	0101	05
253	375	0101	05
254	376	0100	04
255	377	0100	04
256	400	1111	17
257	401	1111	17
258	402	1111	17
259	403	1111	17
260	404	1111	17
261	405	1111	17
262	406	1111	17
263	407	1111	17
264	410	1111	17
265	411	1111	17
266	412	1111	17
267	413	1111	17
268	414	1111	17
269	415	1111	17
270	416	1111	17
271	417	1111	17
272	420	1111	17
273	421	1111	17
274	422	1111	17
275	423	1111	17
276	424	1111	17
277	425	1111	17
278	426	1111	17
279	427	1111	17
280	432	1111	17
281	431	1111	17
282	432	1111	17
283	431	1111	17
284	431	1111	17
285	431	1111	17
286	436	1011	13
287	437	1011	13

DEC PART NUM: 23-03119
 ORIGINATOR: JOHN RUSOM
 DATE OF ORIGIN: 10-28-74

SON PATTERN SPEC

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
288	440	1111	17
289	441	1111	17
290	442	1111	17
291	443	1111	17
292	444	1111	17
293	445	1111	17
294	446	1011	13
295	447	1011	13
296	448	1111	17
297	451	1111	17
298	452	1111	17
299	453	1111	17
300	454	1111	17
301	455	1111	17
302	456	1011	13
303	457	1011	13
304	460	1111	17
305	461	1111	17
306	462	1111	17
307	463	1111	17
308	464	1111	17
309	465	1111	17
310	466	1111	17
311	467	1111	17
312	470	1111	17
313	471	1111	17
314	472	1111	17
315	473	1111	17
316	474	1111	17
317	475	1111	17
318	476	1111	17
319	477	1111	17
320	500	1111	17
321	501	1111	17
322	502	1111	17
323	503	1111	17

DEC PART NUMB1 23-A0119
 ORIGINATOR1 JOHN BLEDH
 DATE OF ORIGIN1 10-28-74

FCM PATTERN SPEC

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
324	504	1111	17
325	505	1111	17
326	506	1111	17
327	507	1111	17
328	508	1111	17
329	509	1111	17
330	510	1011	13
331	511	1011	13
332	512	1011	13
333	513	1111	17
334	514	1111	17
335	515	1111	17
336	516	1111	17
337	517	1111	17
338	518	1111	17
339	519	1111	17
340	520	1111	17
341	521	1111	17
342	522	1011	13
343	523	1011	13
344	524	1111	17
345	525	1111	17
346	526	1111	17
347	527	1111	17
348	528	1111	17
349	529	1111	17
350	530	1111	17
351	531	1011	13
352	532	1011	13
353	533	1011	13
354	534	1111	17
355	535	1111	17
356	536	1111	17
357	537	1111	17
358	538	1111	17
359	539	1111	17
360	540	1111	17
361	541	1111	17
362	542	1111	17
363	543	1011	13
364	544	1011	13
365	545	1111	17
366	546	1111	17
367	547	1111	17
368	548	1111	17
369	549	1111	17
370	550	1111	17
371	551	1111	17
372	552	1111	17
373	553	1011	13
374	554	1011	13
375	555	1111	17
376	556	1111	17
377	557	1111	17
378	558	1111	17
379	559	1011	13
380	560	1111	17
381	561	1111	17
382	562	1111	17
383	563	1111	17
384	564	1111	17
385	565	1111	17
386	566	1111	17
387	567	1011	13
388	568	1011	13
389	569	1111	17
390	570	1111	17
391	571	1111	17
392	572	1111	17
393	573	1111	17
394	574	1111	17
395	575	1111	17
396	576	1111	17
397	577	1111	17
398	578	1111	17
399	579	1111	17
400	580	1111	17
401	581	1111	17
402	582	1111	17
403	583	1111	17
404	584	1111	17
405	585	1111	17
406	586	1111	17
407	587	1111	17
408	588	1111	17
409	589	1111	17
410	590	1111	17
411	591	1111	17
412	592	1111	17
413	593	1111	17
414	594	1111	17
415	595	1111	17
416	596	1111	17
417	597	1111	17
418	598	1111	17
419	599	1111	17
420	600	1111	17
421	601	1111	17
422	602	1111	17
423	603	1111	17
424	604	1111	17
425	605	1111	17
426	606	1111	17
427	607	1111	17
428	608	1111	17
429	609	1111	17
430	610	1111	17
431	611	1111	17
432	612	1111	17
433	613	1111	17

FCM PATTERN SPEC

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DEC PART NUMB1 23-A0119
 ORIGINATOR1 JOHN BLEDH
 DATE OF ORIGIN1 10-28-74

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
374	554	1111	17
375	555	1111	17
376	556	1111	17
377	557	1111	17
378	558	1111	17
379	559	1111	17
380	560	1111	17
381	561	1111	17
382	562	1111	17
383	563	1111	17
384	564	1111	17
385	565	1111	17
386	566	1111	17
387	567	1111	17
388	568	1111	17
389	569	1111	17
390	570	1111	17
391	571	1111	17
392	572	1111	17
393	573	1111	17
394	574	1111	17
395	575	1111	17
396	576	1111	17
397	577	1111	17
398	578	1111	17
399	579	1111	17
400	580	1111	17
401	581	1111	17
402	582	1111	17
403	583	1111	17
404	584	1111	17
405	585	1111	17
406	586	1111	17
407	587	1111	17
408	588	1111	17
409	589	1111	17
410	590	1111	17
411	591	1111	17
412	592	1111	17
413	593	1111	17
414	594	1111	17
415	595	1111	17
416	596	1111	17
417	597	1111	17
418	598	1111	17
419	599	1111	17
420	600	1111	17
421	601	1111	17
422	602	1111	17
423	603	1111	17
424	604	1111	17
425	605	1111	17
426	606	1111	17
427	607	1111	17
428	608	1111	17
429	609	1111	17
430	610	1111	17
431	611	1111	17
432	612	1111	17
433	613	1111	17

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~~XXXXXXXXXX~~

ROM PATTERN SPEC

DEC PART NUMB: 23-00119
ORIGINATOR: JOHN HEDON
DATE OF ORIGIN: 12-28-74

DEFINITION LOC	OCIAL LOC	BINARY DATA	OCIAL DATA
394	614	1111	17
397	615	1111	17
398	616	1011	13
399	617	1011	13
400	620	1111	17
401	621	1111	17
402	622	1011	13
403	623	1011	13
404	624	1111	17
405	625	1111	17
406	626	1011	13
407	627	1011	13
408	630	1111	17
409	631	1111	17
410	632	1011	13
411	633	1011	13
412	634	1111	17
413	635	1111	17
414	636	1011	13
415	637	1011	13
416	640	1111	17
417	641	1111	17
418	642	1011	13
419	643	1011	13
420	644	1111	17
421	645	1111	17
422	646	1011	13
423	647	1011	13
424	654	1111	17
425	651	1111	17
426	652	1011	13
427	653	1011	13
428	654	1111	17
429	655	1111	17
430	656	1011	13
431	657	1011	13

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~~XXXXXXXXXX~~

ROM PATTERN SPEC

DEC PART NUMB: 23-00125
ORIGINATOR: JOHN HEDON
DATE OF ORIGIN: 12-28-74

DEFINITION LOC	OCIAL LOC	BINARY DATA	OCIAL DATA
432	660	1111	17
433	661	1111	17
434	662	1011	13
435	663	1011	13
436	664	1111	17
437	665	1011	13
438	666	1011	13
439	667	1011	13
440	670	1111	17
441	671	1111	17
442	672	1011	13
443	673	1011	13
444	674	1111	17
445	675	1111	17
446	676	1011	13
447	677	1011	13
448	700	1111	17
449	701	1111	17
450	702	1011	13
451	703	1011	13
452	704	1111	17
453	705	1111	17
454	706	1111	17
455	707	1111	17
456	710	1111	17
457	711	1111	17
458	712	1011	13
459	713	1011	13
460	714	1111	17
461	715	1111	17
462	716	1111	17
463	717	1111	17
464	720	1111	17
465	721	1111	17
466	722	1011	13
467	723	1011	13

DEC PART NUMBER: 23-A-11A9
 ORIGINATOR: JOHN RUFOW
 DATE OF ORIGIN: 12-28-74

DECIMAL LOC	OCTAL LOC	PRIMARY DATA	OCTAL DATA
468	724	1111	17
469	725	1111	17
470	726	1111	17
471	727	1111	17
472	728	1111	17
473	731	1111	17
474	732	1211	13
475	733	1311	13
476	734	1111	17
477	735	1111	17
478	736	1111	17
479	737	1111	17
480	740	1111	17
481	741	1111	17
482	742	1211	13
483	743	1311	13
484	744	1111	17
485	745	1111	17
486	746	1111	17
487	747	1111	17
488	750	1111	17
489	751	1111	17
490	752	1311	13
491	753	1311	13
492	754	1111	17
493	755	1111	17
494	756	1111	17
495	757	1111	17
496	762	1111	17
497	761	1111	17
498	762	1211	13
499	763	1211	13
500	764	1111	17
501	765	1111	17
502	766	1111	17
503	767	1111	17

DEC PART NUMBER: 23-A-11A9
 ORIGINATOR: JOHN RUFOW
 DATE OF ORIGIN: 12-28-74

DECIMAL LOC	OCTAL LOC	PRIMARY DATA	OCTAL DATA
504	770	1111	17
505	771	1111	17
506	772	1211	13
507	773	1211	13
508	774	1111	17
509	775	1111	17
510	776	1111	17
511	777	1111	17

DEC PART NUMB 23-A19A1
ORIGINATOR: JOHN F BLOOM
DATE OF ORIGIN 10-25-74

DECIMAL LOC	OCTAL LOC	BINARY DATA	DECIMAL DATA
0	00	00000000	000
1	01	01110000	100
2	02	01001001	125
3	03	01110010	162
4	04	00000000	000
5	05	01110000	100
6	06	01001001	125
7	07	01110010	162
8	10	01110111	167
9	11	01110102	164
10	12	01101010	132
11	11	00000000	000
12	10	01110111	167
13	10	01110102	164
14	10	00010102	212
15	17	00000000	000
16	20	00000000	000
17	21	00000000	000
18	22	00000000	000
19	23	00000000	000
20	24	00000000	000
21	25	00000000	000
22	26	00000000	000
23	27	00000000	000
24	30	00000000	000
25	31	00000000	000
26	32	00000000	000
27	31	00000000	000
28	34	00000000	000
29	35	00000000	000
30	36	00000000	000
31	37	00000000	000

DEC PART NUMB 23-A21A2
ORIGINATOR: JOHN BLOOM
DATE OF ORIGIN 10-28-74

DECIMAL LOC	OCTAL LOC	BINARY DATA	DECIMAL DATA
0	000	0111	07
1	021	0111	07
2	002	0111	07
3	023	0111	07
4	004	0111	07
5	005	0111	07
6	006	0111	07
7	007	0111	07
8	010	0111	07
9	011	0111	07
10	012	0111	07
11	013	0111	07
12	014	0111	07
13	015	0111	07
14	016	0111	07
15	017	0111	07
16	020	0111	07
17	021	0111	07
18	022	0111	07
19	023	0111	07
20	024	0111	07
21	025	0111	07
22	026	0111	07
23	027	0111	07
24	030	0111	07
25	031	0111	07
26	032	0111	07
27	033	0111	07
28	034	0111	07
29	035	0111	07
30	036	0111	07
31	037	0111	07
32	040	1111	15
33	041	1111	15
34	042	1111	15
35	043	1111	15

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DFC PART NUMER 23-82182
 ORIGINATOR JOHN ALDEN
 DATE OF ORIGINAL 18-08-71

FORM PATTERN SPEC

DECIMAL LOC	OCTAL LOC	BINARY DATA	ACTUAL DATA
36	044	1111	17
37	045	1111	17
38	046	1111	17
39	047	1111	17
40	050	1111	17
41	051	1111	17
42	052	1111	17
43	053	1111	17
44	054	1111	17
45	055	1111	17
46	056	1111	17
47	057	1111	17
48	062	1111	17
49	063	1111	17
50	062	1111	17
51	063	1111	17
52	064	1111	17
53	065	1111	17
54	066	1111	17
55	067	1111	17
56	070	1111	17
57	071	1111	17
58	072	1111	17
59	073	1111	17
60	074	1111	17
61	075	1111	17
62	076	1111	17
63	077	1111	17
64	100	1111	17
65	101	1111	17
66	102	1111	17
67	103	1111	17
68	104	1111	17
69	105	1111	17
70	106	1111	17
71	107	1111	17

DFC PART NUMER 23-82182
 ORIGINATOR JOHN ALDEN
 DATE OF ORIGINAL 18-08-71

FORM PATTERN SPEC

DECIMAL LOC	OCTAL LOC	BINARY DATA	ACTUAL DATA
72	110	1111	17
73	111	1111	17
74	112	1111	17
75	113	1111	17
76	114	1111	17
77	115	1111	17
78	116	1111	17
79	117	1111	17
80	120	1111	17
81	121	1111	17
82	122	1111	17
83	123	1111	17
84	124	1111	17
85	125	1111	17
86	126	1111	17
87	127	1111	17
88	130	1111	17
89	131	1111	17
90	132	1111	17
91	133	1111	17
92	134	1111	17
93	135	1111	17
94	136	1111	17
95	137	1111	17
96	140	1111	17
97	141	1111	17
98	142	1111	17
99	143	1111	17
100	144	1111	17
101	145	1111	17
102	146	1111	17
103	147	1111	17
104	150	1111	17
105	151	1111	17
106	152	1111	17
107	153	1111	17

REC PART NUMB 23-42142
ORIGINATOR JOHN BLOEM
DATE OF ORIGIN 10-28-74

OFFICIAL LOC	OFFICIAL LOC	HICARY DATA	OFFICIAL DATA
188	184	0111	17
189	185	0111	17
190	186	0111	17
191	187	0111	17
192	188	0111	17
193	189	0111	17
194	190	0111	17
195	191	0111	17
196	192	0111	17
197	193	0111	17
198	194	0111	17
199	195	0111	17
200	196	0111	17
201	197	0111	17
202	198	0111	17
203	199	0111	17
204	200	0111	17
205	201	0111	17
206	202	0111	17
207	203	0111	17
208	204	0111	17
209	205	0111	17
210	206	0111	17
211	207	0111	17
212	208	0111	17
213	209	0111	17
214	210	0111	17
215	211	0111	17
216	212	0111	17
217	213	0111	17
218	214	0111	17
219	215	0111	17
220	216	0111	17
221	217	0111	17
222	218	0111	17
223	219	0111	17
224	220	0111	17
225	221	0111	17
226	222	0111	17
227	223	0111	17
228	224	0111	17
229	225	0111	17
230	226	0111	17
231	227	0111	17
232	228	0111	17
233	229	0111	17
234	230	0111	17
235	231	0111	17
236	232	0111	17
237	233	0111	17
238	234	0111	17
239	235	0111	17
240	236	0111	17
241	237	0111	17
242	238	0111	17
243	239	0111	17
244	240	0111	17
245	241	0111	17
246	242	0111	17
247	243	0111	17
248	244	0111	17
249	245	0111	17
250	246	0111	17
251	247	0111	17
252	248	0111	17
253	249	0111	17
254	250	0111	17
255	251	0111	17
256	252	0111	17
257	253	0111	17
258	254	0111	17
259	255	0111	17
260	256	0111	17
261	257	0111	17
262	258	0111	17
263	259	0111	17
264	260	0111	17
265	261	0111	17
266	262	0111	17
267	263	0111	17
268	264	0111	17
269	265	0111	17
270	266	0111	17
271	267	0111	17
272	268	0111	17
273	269	0111	17
274	270	0111	17
275	271	0111	17
276	272	0111	17
277	273	0111	17
278	274	0111	17
279	275	0111	17
280	276	0111	17
281	277	0111	17
282	278	0111	17
283	279	0111	17
284	280	0111	17
285	281	0111	17
286	282	0111	17
287	283	0111	17
288	284	0111	17
289	285	0111	17
290	286	0111	17
291	287	0111	17
292	288	0111	17
293	289	0111	17
294	290	0111	17
295	291	0111	17
296	292	0111	17
297	293	0111	17
298	294	0111	17
299	295	0111	17
300	296	0111	17
301	297	0111	17
302	298	0111	17
303	299	0111	17
304	300	0111	17

REC PART NUMB 23-42142
ORIGINATOR JOHN BLOEM
DATE OF ORIGIN 10-28-74

OFFICIAL LOC	OFFICIAL LOC	HICARY DATA	OFFICIAL DATA
188	220	0112	26
189	221	0112	26
190	222	0112	26
191	223	0112	26
192	224	0121	25
193	225	0121	25
194	226	0121	25
195	227	0121	25
196	228	0112	26
197	229	0112	26
198	230	0112	26
199	231	0112	26
200	232	0112	26
201	233	0112	26
202	234	0121	25
203	235	0121	25
204	236	0121	25
205	237	0121	25
206	238	0112	26
207	239	0112	26
208	240	0112	26
209	241	0112	26
210	242	0112	26
211	243	0112	26
212	244	0112	26
213	245	0112	26
214	246	0112	26
215	247	0112	26
216	248	0112	26
217	249	0112	26
218	250	0112	26
219	251	0112	26
220	252	0112	26
221	253	0112	26
222	254	0112	26
223	255	0112	26
224	256	0112	26
225	257	0112	26
226	258	0112	26
227	259	0112	26
228	260	0112	26
229	261	0112	26
230	262	0112	26
231	263	0112	26
232	264	0112	26
233	265	0112	26
234	266	0112	26
235	267	0112	26
236	268	0112	26
237	269	0112	26
238	270	0112	26
239	271	0112	26
240	272	0112	26
241	273	0112	26
242	274	0112	26
243	275	0112	26
244	276	0112	26
245	277	0112	26
246	278	0112	26
247	279	0112	26
248	280	0112	26
249	281	0112	26
250	282	0112	26
251	283	0112	26
252	284	0112	26
253	285	0112	26
254	286	0112	26
255	287	0112	26
256	288	0112	26
257	289	0112	26
258	290	0112	26
259	291	0112	26
260	292	0112	26
261	293	0112	26
262	294	0112	26
263	295	0112	26
264	296	0112	26
265	297	0112	26
266	298	0112	26
267	299	0112	26
268	300	0112	26

DEC PART NUMB 23-A21A2
ORIGINATOR JOHN ALLEN
DATE OF ORIGINAL 10-28-74

DECIMAL LOC	OCTAL LOC	HEXADY DATA	ASCII DATA
190	264	1111	17
191	265	1111	17
192	266	1111	17
193	267	1111	17
194	270	1111	17
195	271	1111	17
196	272	1111	17
197	273	1111	17
198	274	1111	17
199	275	1111	17
200	276	1111	17
201	277	1111	17
202	300	1111	17
203	301	1111	17
204	302	1111	17
205	303	1111	17
206	304	1111	17
207	305	1111	17
208	306	1111	17
209	307	1111	17
210	310	1111	17
211	311	1111	17
212	312	1111	17
213	313	1111	17
214	314	1111	17
215	315	1111	17
216	316	1111	17
217	317	1111	17
218	320	1111	17
219	321	1111	17
220	322	1111	17
221	323	1111	17
222	324	1111	17
223	325	1111	17
224	326	1111	17
225	327	1111	17

DEC PART NUMB 23-A21A2
ORIGINATOR JOHN ALLEN
DATE OF ORIGINAL 10-28-74

DECIMAL LOC	OCTAL LOC	HEXADY DATA	ASCII DATA
216	330	1111	17
217	331	1111	17
218	332	1111	17
219	333	1111	17
220	334	1111	17
221	335	1111	17
222	336	1111	17
223	337	1111	17
224	340	1111	17
225	341	1111	17
226	342	1111	17
227	343	1111	17
228	344	1111	17
229	345	1111	17
230	346	1111	17
231	347	1111	17
232	350	1111	17
233	351	1111	17
234	352	1111	17
235	353	2117	26
236	354	1111	17
237	355	1111	17
238	356	1111	17
239	357	0211	23
240	360	1111	17
241	361	1111	17
242	362	1111	17
243	364	1111	17
244	364	1111	17
245	365	1111	17
246	366	1111	17
247	367	1111	17
248	370	1111	17
249	371	1111	17
250	372	1111	17
251	373	0117	26

DEC PART NU-MR1 23-421A2
 ORIGINATOR: JOHN FLOHM
 DATE OF ORIGIN: 17-08-74

DECIMAL LOC	OCTAL LOC	HEXADY DATA	OCTAL DATA
252	374	1111	17
253	375	1111	17
254	376	1111	17
255	377	0111	27

DEC PART NU-MR1 23-422A2
 ORIGINATOR: JOHN FLOHM
 DATE OF ORIGIN: 17-08-74

DECIMAL LOC	OCTAL LOC	HEXADY DATA	OCTAL DATA
0	000	1111	17
1	001	1110	16
2	002	1110	16
3	003	1111	17
4	004	1110	16
5	005	1111	17
6	006	1110	16
7	007	1111	17
8	010	1000	10
9	011	1111	17
10	012	1110	16
11	013	1111	17
12	014	1110	16
13	015	1111	17
14	016	1110	16
15	017	1111	17
16	020	1111	17
17	021	1110	16
18	022	1110	16
19	023	1111	17
20	024	1111	17
21	025	1110	16
22	026	1111	17
23	027	1110	16
24	030	1110	16
25	031	1111	17
26	032	1110	16
27	033	1111	17
28	034	1111	17
29	035	1110	16
30	036	1110	16
31	037	1111	17
32	040	1111	17
33	041	1110	16
34	042	1111	17
35	043	1110	16

RCM PATTERN SPEC

REC PART NUMB: 23-472A7
 ORIGINATOR: JOHN BLOEM
 DATE OF ORIGIN: 5-MAR-75

OFFICIAL LOC	OCTAL LOC	PRIMARY DATA	OCTAL DATE
36	044	1110	16
37	45	1111	17
38	046	1111	17
39	047	1110	16
40	050	1000	10
41	051	1111	17
42	052	1111	17
43	053	1110	16
44	054	1110	16
45	055	1111	17
46	056	1110	16
47	057	1111	17
48	060	1111	17
49	061	1110	16
50	062	1111	17
51	063	1110	16
52	064	1111	17
53	065	1110	16
54	066	1111	17
55	067	1112	18
56	070	1110	16
57	071	1111	17
58	072	1111	17
59	073	1110	16
60	074	1111	17
61	075	1110	16
62	076	1110	16
63	077	1111	17
71	100	0011	03
64	101	1112	18
65	102	1110	16
66	103	0101	05
67	104	1111	17
68	105	1112	18
69	106	1111	17
70	107	0112	06

RCM PATTERN SPEC

REC PART NUMB: 23-472A7
 ORIGINATOR: JOHN BLOEM
 DATE OF ORIGIN: 5-MAR-75

OFFICIAL LOC	OCTAL LOC	PRIMARY DATA	OCTAL DATE
72	110	0211	03
73	111	0100	04
74	112	1110	16
75	113	0101	05
76	114	1110	16
77	115	0111	07
78	116	1110	16
79	117	0111	07
80	120	1111	17
81	121	1110	16
82	122	1110	16
83	123	1111	17
84	124	1112	18
85	125	1111	17
86	126	1110	16
87	127	1111	17
88	130	1111	17
89	131	1110	16
90	132	1110	16
91	133	1111	17
92	134	1111	17
93	135	1110	16
94	136	1110	16
95	137	1111	17
96	140	0011	03
97	141	0100	04
98	142	1111	17
99	143	0100	04
120	134	1111	17
121	135	1110	16
122	136	1111	17
123	137	0112	06
124	138	0011	03
125	139	0100	04
126	140	1111	17
127	141	1111	17

DFC PART NUMBER 23-82222
 ORIGINATOR JOHN RUOFM
 DATE OF ORIGIN 5-MAR-75

ROW PATTERN SPEC

~~PERC. 29~~ 29

ORIGINAL LOC	OCTAL LOC	PRIMARY DATA	OCTAL DATA
108	154	1110	16
109	155	0111	07
110	156	1110	16
111	157	0111	07
112	164	1111	17
113	161	1110	16
114	162	1111	17
115	163	1110	16
116	164	1110	16
117	165	1111	17
118	166	1111	17
119	167	1110	16
120	170	1111	17
121	171	1110	16
122	172	1111	17
123	173	1110	16
124	174	1111	17
125	175	1110	16
126	176	1111	17
127	177	1111	17
128	200	0111	07
129	201	1112	16
130	202	1110	16
131	203	1111	17
132	224	1112	16
133	205	1111	17
134	206	1110	16
135	207	1111	17
136	210	1110	16
137	211	1111	17
138	212	1111	17
139	213	1110	16
140	214	1110	16
141	215	1111	17
142	216	1111	17
143	217	1112	16

DFC PART NUMBER 23-82222
 ORIGINATOR JOHN RUOFM
 DATE OF ORIGIN 5-MAR-75

ROW PATTERN SPEC

~~PERC. 30~~ 30

ORIGINAL LOC	OCTAL LOC	PRIMARY DATA	OCTAL DATA
144	224	1111	17
145	221	1110	16
146	222	1110	16
147	223	1111	17
148	224	1111	17
149	225	1110	16
150	226	1111	17
151	227	1110	16
152	230	1110	16
153	231	1111	17
154	232	1111	17
155	233	1112	16
156	234	1111	17
157	235	1110	16
158	236	1110	16
159	237	1110	16
160	240	1111	17
161	241	1110	16
162	242	1111	17
163	243	1112	16
164	244	1110	16
165	245	1111	17
166	246	1111	17
167	247	1110	16
168	250	1110	16
169	251	1111	17
170	252	1111	17
171	253	1110	16
172	254	1110	16
173	255	1111	17
174	256	1111	17
175	257	1112	16
176	260	1111	17
177	261	1112	16
178	262	1111	17
179	263	1110	16

DEC PART NUMB 23-422A2
ORIGINATOR JOHN ALOEM
DATE OF ORIGIN 5-MAR-75

ROW PATTERN SPEC

DECIMAL LOC	DECIMAL LOC	HEXARY DATA	ACTUAL DATA
184	264	1111	17
181	265	1110	16
182	266	1111	17
183	267	1111	16
184	272	1110	16
185	271	1111	17
186	272	1111	17
187	273	1110	16
188	274	1111	17
189	275	1110	16
190	276	1111	17
191	277	1110	16
192	300	0111	03
193	301	0100	04
194	302	1110	16
195	303	0101	05
196	304	1111	17
197	305	0110	06
198	306	1111	17
199	307	0110	06
200	310	0011	03
201	311	0100	04
202	312	1111	17
203	313	0100	04
204	314	1110	16
205	315	0111	07
206	316	1111	17
207	317	0110	06
208	320	1111	17
209	321	1110	16
210	322	1110	16
211	323	1111	17
212	324	1110	16
213	325	1111	17
214	326	1110	16
215	327	1111	17

DEC PART NUMB 23-422A2
ORIGINATOR JOHN ALOEM
DATE OF ORIGIN 5-MAR-75

ROW PATTERN SPEC

DECIMAL LOC	DECIMAL LOC	HEXARY DATA	ACTUAL DATA
216	330	1111	17
217	331	1110	16
218	332	1111	17
219	333	1110	16
220	334	1111	17
221	335	1110	16
222	336	1111	17
223	337	1110	16
224	340	0011	03
225	341	0100	04
226	342	1111	17
227	343	0100	04
228	344	1111	17
229	345	0110	06
230	346	1111	17
231	347	0110	06
232	350	0211	03
233	351	0100	04
234	352	1111	17
235	353	0100	04
236	354	1110	16
237	355	0111	07
238	356	1111	17
239	357	0110	06
240	360	1111	17
241	361	1110	16
242	362	1111	17
243	363	1110	16
244	364	1110	16
245	365	1111	17
246	366	1111	17
247	367	1110	16
248	370	1111	17
249	371	1110	16
250	372	1111	17
251	373	1110	16

NOV PATTERN SPEC ~~SECRET~~ 33

DEC PART NUMBER 23-222A2
 ORIGINATOR JOHN E. RUDEN
 DATE OF ORIGIN 10-MAR-75

OFFICIAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
252	034	1111	17
253	035	1110	16
254	036	1111	17
255	037	1110	16

NOV PATTERN SPEC ~~SECRET~~ 34

DEC PART NUMBER 23-222A2
 ORIGINATOR JOHN E. RUDEN
 DATE OF ORIGIN 10-MAR-75

OFFICIAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
4	200	0000	00
5	201	0111	07
6	202	0111	07
7	203	0111	07
8	204	0111	07
9	205	0111	07
10	206	0111	07
11	207	0111	07
12	208	1111	17
13	209	1111	17
14	210	1111	17
15	211	1111	17
16	212	1111	17
17	213	1111	17
18	214	1111	17
19	215	1111	17
20	216	1111	17
21	217	1111	17
22	218	1111	17
23	219	1111	17
24	220	1111	17
25	221	1111	17
26	222	1111	17
27	223	1111	17
28	224	1111	17
29	225	1111	17
30	226	1111	17
31	227	1111	17
32	228	1111	17
33	229	1111	17
34	230	1111	17
35	231	1111	17

DEC PART 21-42312
ORIGINATOR JOHN F BLOFH
DATE OF ORIGIN 19-NOV-75

ROW PATTERN SPRT

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
36	044	1111	17
37	045	1111	17
38	046	1111	17
39	047	1111	17
40	050	1111	17
41	051	1111	17
42	052	1111	17
43	053	1111	17
44	054	1111	17
45	055	1111	17
46	056	1111	17
47	057	1111	17
48	060	1111	17
49	061	1111	17
50	062	1111	17
51	063	1111	17
52	064	1111	17
53	065	1111	17
54	066	1111	17
55	067	1111	17
56	070	1111	17
57	071	1111	17
58	072	1111	17
59	073	1111	17
60	074	1111	17
61	075	1111	17
62	076	1111	17
63	077	1111	17
64	100	1111	17
65	101	1111	17
66	102	1111	17
67	103	1111	17
68	104	1111	17
69	105	1111	17
70	106	1111	17
71	107	1111	17

DEC PART 21-42312
ORIGINATOR JOHN F BLOFH
DATE OF ORIGIN 19-NOV-75

ROW PATTERN SPRT

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
72	110	1111	17
73	111	1111	17
74	112	1111	17
75	113	1111	17
76	114	1111	17
77	115	1111	17
78	116	1111	17
79	117	1111	17
80	120	1111	17
81	121	1111	17
82	122	1111	17
83	123	1111	17
84	124	1111	17
85	125	1111	17
86	126	1111	17
87	127	1111	17
88	130	1111	17
89	131	1111	17
90	132	1111	17
91	133	1111	17
92	134	1111	17
93	135	1111	17
94	136	1111	17
95	137	1111	17
96	140	1111	17
97	141	1111	17
98	142	1111	17
99	143	1111	17
100	144	1111	17
101	145	1111	17
102	146	1111	17
103	147	1111	17
104	150	1111	17
105	151	1111	17
106	152	1111	17
107	153	1111	17

ROW PATTERN SPEC

DEC PART NUMBER 23-22327
OPERATOR JOHN F. RUDY
DATE OF ORIGIN 19-11-75

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
108	154	1111	17
109	155	1111	17
110	156	1111	17
111	157	1111	17
112	160	1111	17
113	161	1111	17
114	162	1111	17
115	163	1111	17
116	167	1111	17
117	168	1111	17
118	169	1111	17
119	170	1111	17
120	171	1111	17
121	172	1111	17
122	173	1111	17
123	174	1111	17
124	175	1111	17
125	176	1111	17
126	177	1111	17
127	227	1111	17
128	228	1111	17
129	229	1111	17
130	230	1111	17
131	231	1111	17
132	204	0111	07
133	205	0111	07
134	206	0111	07
135	207	0111	07
136	210	0011	03
137	211	0111	07
138	212	0111	07
139	213	0111	07
140	214	1111	17
141	215	1111	17
142	216	1111	17
143	217	1111	17

ROW PATTERN SPEC

DEC PART NUMBER 23-22327
OPERATOR JOHN F. RUDY
DATE OF ORIGIN 19-11-75

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
144	220	1111	17
145	221	1111	17
146	222	1111	17
147	223	1111	17
148	224	1111	17
149	225	1111	17
150	226	1111	17
151	227	1111	17
152	230	1111	17
153	231	1111	17
154	232	1111	17
155	233	1111	17
156	234	1111	17
157	235	1111	17
158	236	1111	17
159	237	1111	17
160	240	1111	17
161	241	1111	17
162	242	1111	17
163	243	1111	17
164	245	1111	17
165	246	1111	17
166	247	1111	17
167	250	1111	17
168	251	1111	17
169	252	1111	17
170	253	1111	17
171	254	1111	17
172	255	1111	17
173	256	1111	17
174	257	1111	17
175	260	1111	17
176	261	1111	17
177	262	1111	17
178	263	1111	17
179			

PCV PATTERN SPEC ~~39~~ 39

DEC PART NUMB 23-42312
ORIGINATOR JOHN E BLOCH
DATE OF ORIGIN 19-04-74

ORIGINAL LOC	OCTAL LOC	HEXARY DATA	OCTAL DATA
189	284	1111	17
191	265	1111	17
192	266	1111	17
193	267	1111	17
194	27A	1111	17
195	271	1111	17
196	272	1111	17
197	273	1111	17
198	274	1111	17
199	275	1111	17
200	27A	1111	17
201	279	1111	17
202	30C	1111	17
203	301	1111	17
204	302	1111	17
205	303	1111	17
206	304	1111	17
207	305	1111	17
208	306	1111	17
209	307	1111	17
210	310	1111	17
211	311	1111	17
212	312	1111	17
213	313	1111	17
214	314	1111	17
215	315	1111	17
216	316	1111	17
217	317	1111	17
218	318	1111	17
219	319	1111	17
220	320	1111	17
221	321	1111	17
222	322	1111	17
223	323	1111	17
224	324	1111	17
225	325	1111	17
226	326	1111	17
227	327	1111	17

PCV PATTERN SPEC ~~40~~ 40

DEC PART NUMB 23-42312
ORIGINATOR JOHN E BLOCH
DATE OF ORIGIN 19-04-74

ORIGINAL LOC	OCTAL LOC	HEXARY DATA	OCTAL DATA
216	330	1111	17
217	331	1111	17
218	332	1111	17
219	333	1111	17
220	334	1111	17
221	335	1111	17
222	336	1111	17
223	337	1111	17
224	340	1111	17
225	341	1111	17
226	342	1111	17
227	343	1111	17
228	344	1111	17
229	345	1111	17
230	346	1111	17
231	347	1111	17
232	350	1111	17
233	351	1111	17
234	352	1111	17
235	353	1111	17
236	354	1111	17
237	355	1111	17
238	356	1111	17
239	357	1111	17
240	360	1111	17
241	361	1111	17
242	362	1111	17
243	363	1111	17
244	364	1111	17
245	365	1111	17
246	366	1111	17
247	367	1111	17
248	370	1111	17
249	371	1111	17
250	372	1111	17
251	373	1111	17

DEC PART NUMB. 23-22182
 ORIGINATOR JOHN E. RICE
 DATE OF ORIGIN 8-MAY-75

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
252	374	1111	17
253	375	1111	17
254	376	1111	17
255	377	1111	17

DEC PART NUMB. 23-22182
 ORIGINATOR JOHN E. RICE
 DATE OF ORIGIN 10-3-74

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
4	000	0111	07
5	001	0111	05
6	002	0111	07
7	003	0100	06
8	004	0111	07
9	005	1101	15
10	006	0111	07
11	007	1100	14
12	010	0111	07
13	011	0101	05
14	012	0111	07
15	013	0100	04
16	014	0111	07
17	015	1101	15
18	016	0111	07
19	017	1100	14
20	024	0111	07
21	021	0111	07
22	022	0111	07
23	023	0111	07
24	024	0111	07
25	025	0111	07
26	026	0111	07
27	027	0111	07
28	030	0111	07
29	031	0111	07
30	032	0111	07
31	033	0111	07
32	034	0111	07
33	035	0111	07
34	036	0111	07
35	037	0111	07
36	040	0111	07
37	041	0011	03
38	042	0111	07
39	043	0010	02

DEC PART NUMB: 23-12412
ORIGINATOR: JOHN E BLOOM
DATE OF ORIGIN: 18-4-74

ROM PATTERN SPEC

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
36	044	0111	07
37	045	0011	07
38	046	0111	07
39	047	0010	02
40	050	0111	07
41	051	1011	13
42	052	0111	07
43	053	1010	12
44	054	0111	07
45	055	1011	13
46	056	0111	07
47	057	1010	12
48	060	0111	07
49	061	0111	07
50	062	0111	07
51	063	0111	07
52	064	0111	07
53	065	0111	07
54	066	0111	07
55	067	0111	07
56	070	0111	07
57	071	0111	07
58	072	0111	07
59	073	0111	07
60	074	0111	07
61	075	0111	07
62	076	0111	07
63	077	0111	07
64	100	0111	07
65	101	0101	05
66	102	0111	07
67	103	0101	05
68	104	0111	07
69	105	1101	19
70	106	0111	07
71	107	1101	19

DEC PART NUMB: 23-12412
ORIGINATOR: JOHN E BLOOM
DATE OF ORIGIN: 18-4-74

ROM PATTERN SPEC

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
72	110	0111	07
73	111	0100	04
74	112	0111	07
75	113	0100	04
76	114	0111	07
77	115	1000	14
78	116	0111	07
79	117	1100	14
80	120	0111	07
81	121	0111	07
82	122	0111	07
83	123	0111	07
84	124	0111	07
85	125	0111	07
86	126	0111	07
87	127	0111	07
88	130	0111	07
89	131	0111	07
90	132	0111	07
91	133	0111	07
92	134	0111	07
93	135	0111	07
94	136	0111	07
95	137	0111	07
96	140	0111	07
97	141	0011	03
98	142	0111	07
99	143	0011	03
100	144	0111	07
101	145	0011	03
102	146	0111	07
103	147	0011	03
104	150	0111	07
105	151	0111	07
106	152	0111	07
107	153	1011	13

DEC PART NUMB 23-AZ442
 ORIGINATOR: JOHN E BLOCH
 DATE OF ORIGIN: 18-4-74

FROM PATTERN SPEC

~~23-AZ442~~ 45

OPTICAL LOC	ACTUAL LOC	BINARY DATA	ACTUAL DATA
108	184	0111	07
109	185	1011	13
110	186	0111	07
111	187	1011	13
112	188	0111	07
113	189	0111	07
114	190	0111	07
115	191	0111	07
116	192	0111	07
117	193	0111	07
118	194	0111	07
119	195	0111	07
120	196	0111	07
121	197	0111	07
122	198	0111	07
123	199	0111	07
124	200	0111	07
125	201	0111	07
126	202	0111	07
127	203	0111	07
128	204	0111	07
129	205	0111	07
130	206	0111	07
131	207	0111	07
132	208	0111	07
133	209	0111	07
134	210	0111	07
135	211	0111	07
136	212	0111	07
137	213	0111	07
138	214	0111	07
139	215	0111	07
140	216	0111	07
141	217	0111	07

DEC PART NUMB 23-AZ442
 ORIGINATOR: JOHN E BLOCH
 DATE OF ORIGIN: 18-4-74

FROM PATTERN SPEC

~~23-AZ442~~ 46

OPTICAL LOC	ACTUAL LOC	BINARY DATA	ACTUAL DATA
144	220	0111	07
145	221	0111	07
146	222	0111	07
147	223	0111	07
148	224	0111	07
149	225	0111	07
150	226	0111	07
151	227	0111	07
152	228	0111	07
153	229	0111	07
154	230	0111	07
155	231	0111	07
156	232	0111	07
157	233	0111	07
158	234	0111	07
159	235	0111	07
160	236	0111	07
161	237	0111	07
162	238	0111	07
163	239	0111	07
164	240	0111	07
165	241	0111	07
166	242	0111	07
167	243	0111	07
168	244	0111	07
169	245	0111	07
170	246	0111	07
171	247	0111	07
172	248	0111	07
173	249	0111	07
174	250	0111	07
175	251	0111	07
176	252	0111	07
177	253	0111	07
178	254	0111	07
179	255	0111	07
180	256	0111	07
181	257	0111	07
182	258	0111	07
183	259	0111	07
184	260	0111	07
185	261	0111	07
186	262	0111	07
187	263	0111	07

DEC PART NUMB1 23-42442
ORIGINATORI JOHN E BLOOM
DATE OF ORIGINI 10-4-74

ROM PATTERN SPEC

DECIMAL LOC	DECIMAL LOC	BINARY DATA	OCTAL DATA
180	264	0111	07
181	265	0111	07
182	266	0111	07
183	267	0111	07
184	270	0111	07
185	271	0111	07
186	272	0111	07
187	273	0111	07
188	274	0111	07
189	275	0111	07
190	276	0111	07
191	277	0111	07
192	300	0111	07
193	301	0111	07
194	302	0111	07
195	304	0111	07
196	304	0111	07
197	305	0111	07
198	306	0111	07
199	307	0111	07
200	310	0111	07
201	311	0111	07
202	312	0111	07
203	313	0111	07
204	314	0111	07
205	315	0111	07
206	316	0111	07
207	317	0111	07
208	320	0111	07
209	321	0111	07
210	322	0111	07
211	323	0111	07
212	324	0111	07
213	325	0111	07
214	326	0111	07
215	327	0111	07

DEC PART NUMB1 23-42442
ORIGINATORI JOHN E BLOOM
DATE OF ORIGINI 10-4-74

ROM PATTERN SPEC

DECIMAL LOC	DECIMAL LOC	BINARY DATA	OCTAL DATA
216	330	0111	07
217	331	0111	07
218	332	0111	07
219	333	0111	07
220	334	0111	07
221	335	0111	07
222	336	0111	07
223	337	0111	07
224	340	0111	07
225	341	0111	07
226	342	0111	07
227	343	0111	07
228	344	0111	07
229	345	0111	07
230	346	0111	07
231	347	0111	07
232	350	0111	07
233	351	0111	07
234	352	0111	07
235	353	0111	07
236	354	0111	07
237	355	0111	07
238	356	0111	07
239	357	0111	07
240	360	0111	07
241	361	0111	07
242	362	0111	07
243	363	0111	07
244	364	0111	07
245	365	0111	07
246	366	0111	07
247	367	0111	07
248	370	0111	07
249	371	0111	07
250	372	0111	07
251	373	0111	07

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ROM PATTERN SPEC

DEC PART NUMB1 23-42842
ORIGINATOR JOHN E HLOOM
DATE OF ORIGIN 18-4-78

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
252	374	0111	07
253	475	0111	07
254	376	0111	A7
255	377	0111	07

ROM PATTERN SPEC

DEC PART NUMB1 23-42842
ORIGINATOR JOHN E HLOOM
DATE OF ORIGIN 18-4-78

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
2	000	1111	17
3	001	1111	17
2	002	0101	05
3	003	0003	0F
4	004	1111	17
5	005	1111	17
6	006	1111	17
7	007	0002	0A
9	010	1111	17
9	011	1111	17
10	012	0011	03
11	013	1111	17
12	014	1111	17
13	015	1111	17
14	016	0011	03
15	017	1111	17
16	020	1111	17
17	021	1111	17
18	022	0101	05
19	023	1111	17
20	024	1111	17
21	025	1111	17
22	026	1111	17
23	027	1111	17
24	030	1111	17
24	031	1111	17
26	032	0011	03
27	033	1111	17
28	034	1111	17
29	035	1111	17
30	036	0011	03
31	037	1111	17
32	040	1111	17
33	041	1111	17
34	042	0101	05
35	043	2001	0F

ROM PATTERN SPEC ~~51~~ 51

DEC PART NUMB1 23-42542
 ORIGINATOR JOHN E BLOEM
 DATE OF ORIGIN 18-09-74

DECIMAL LOC	ACTUAL LOC	PRIMARY DATA	ACTUAL DATA
36	044	1111	17
37	045	1111	17
38	046	1111	17
39	047	0000	00
40	050	1111	17
41	051	1111	17
42	052	0011	03
43	053	1111	17
44	054	1111	17
45	055	1111	17
46	056	0011	03
47	057	1111	17
48	060	1111	17
49	061	1111	17
50	062	0101	05
51	063	1111	17
52	064	1111	17
53	065	1111	17
54	066	1111	17
55	067	1111	17
56	070	1111	17
57	071	1111	17
58	072	0011	03
59	073	1111	17
60	074	1111	17
61	075	1111	17
62	076	0011	03
63	077	1111	17
64	100	1111	17
65	101	1111	17
66	102	1111	17
67	103	0000	00
68	104	1111	17
69	105	1111	17
70	106	1111	17
71	107	0000	00

ROM PATTERN SPEC ~~52~~ 52

DEC PART NUMB1 23-42542
 ORIGINATOR JOHN E BLOEM
 DATE OF ORIGIN 18-09-74

DECIMAL LOC	ACTUAL LOC	PRIMARY DATA	ACTUAL DATA
72	110	1111	17
73	111	1111	17
74	112	0011	03
75	113	1111	17
76	114	1111	17
77	115	1111	17
78	116	0011	03
79	117	1111	17
80	120	1111	17
81	121	1111	17
82	122	1111	17
83	123	1111	17
84	124	1111	17
85	125	1111	17
86	126	1111	17
87	127	1111	17
88	130	1111	17
89	131	1111	17
90	132	0011	03
91	133	1111	17
92	134	1111	17
93	135	1111	17
94	136	0011	03
95	137	1111	17
96	140	1111	17
97	141	1111	17
98	142	1111	17
99	143	0000	00
100	144	1111	17
101	145	1111	17
102	146	1111	17
103	147	0000	00
104	150	1111	17
105	151	1111	17
106	152	0011	03
107	153	1111	17

ROM PATTERN SPEC ~~XXXXXXXXXX~~ 53

DEC PART NUMB: 23-42512
 ORIGINATOR: JOHN E BLOEM
 DATE OF ORIGIN: 10-09-74

DECIMAL LOC	HEX LOC	BINARY DATA	HEX DATA
188	194	1111	17
189	195	1111	17
190	196	0011	03
191	197	1111	17
192	198	1111	17
193	199	1111	17
194	200	1111	17
195	201	1111	17
196	202	1111	17
197	203	1111	17
198	204	1111	17
199	205	1111	17
200	206	1111	17
201	207	0000	00
202	208	0110	06
203	209	1111	17
204	210	1111	17
205	211	1111	17
206	212	0011	03
207	213	1111	17
208	214	1111	17
209	215	1111	17
210	216	0011	03
211	217	1111	17

ROM PATTERN SPEC ~~XXXXXXXXXX~~ 54

DEC PART NUMB: 23-42512
 ORIGINATOR: JOHN E BLOEM
 DATE OF ORIGIN: 10-09-74

DECIMAL LOC	HEX LOC	BINARY DATA	HEX DATA
144	228	1111	17
145	229	1111	17
146	230	0101	05
147	231	1111	17
148	232	1111	17
149	233	1111	17
150	234	1111	17
151	235	1111	17
152	236	1111	17
153	237	1111	17
154	238	1111	17
155	239	0011	03
156	240	1111	17
157	241	1111	17
158	242	0011	03
159	243	1111	17
160	244	0100	04
161	245	1111	17
162	246	0101	05
163	247	0000	00
164	248	1111	17
165	249	1111	17
166	250	1111	17
167	251	0000	00
168	252	1111	17
169	253	1111	17
170	254	1111	17
171	255	1111	17
172	256	1111	17
173	257	1111	17
174	258	1111	17
175	259	1111	17
176	260	1111	17
177	261	1111	17
178	262	0101	05
179	263	1111	17

ROM PATTERN SPEC

DEC PART NUMB: 23-825A2
ORIGINATOR: JOHN E BLOEM
DATE OF ORIGIN: 18-09-74

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
189	264	1111	17
190	265	1111	17
191	266	1111	17
192	267	1111	17
184	270	1111	17
185	271	1111	17
186	272	0010	02
187	273	1111	17
188	274	1111	17
189	275	1111	17
190	276	0010	02
191	277	1111	17
192	300	1111	17
193	301	1111	17
194	302	1111	17
195	303	0020	03
196	304	1111	17
197	305	1111	17
198	306	1111	17
199	307	0000	00
200	310	1111	17
201	311	1111	17
202	312	0011	03
203	313	1111	17
204	314	1111	17
205	315	1111	17
206	316	0011	03
207	317	1111	17
208	320	1111	17
209	321	1111	17
210	322	1111	17
211	323	1111	17
212	324	1111	17
213	325	1111	17
214	326	1111	17
215	327	1111	17

ROM PATTERN SPEC

DEC PART NUMB: 23-825A2
ORIGINATOR: JOHN E BLOEM
DATE OF ORIGIN: 18-09-74

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
216	330	1111	17
217	331	1111	17
218	332	0011	03
219	333	1111	17
220	334	1111	17
221	335	1111	17
222	336	0011	03
223	337	1111	17
224	340	0100	04
225	341	1111	17
226	342	1111	17
227	343	0020	03
228	344	1111	17
229	345	1111	17
230	346	1111	17
231	347	0000	00
232	350	1111	17
233	351	1111	17
234	352	0011	03
235	353	1111	17
236	354	1111	17
237	355	1111	17
238	356	0011	03
239	357	1111	17
240	360	1111	17
241	361	1111	17
242	362	1111	17
243	363	1111	17
244	364	1111	17
245	365	1111	17
246	366	0011	03
247	367	1111	17
248	370	1111	17
249	371	1111	17
250	372	1010	12
251	373	1111	17

ROM PATTERN SPEC 57

DEC PART NUMB1 23-42542
ORIGINATOR: JOHN F. BLOEM
DATE OF ORIGIN: 10-09-74

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
252	374	1111	17
253	375	1111	17
254	376	0010	02
255	377	1111	17

ROM PATTERN SPEC 58

DEC PART NUMB1 23-42542
ORIGINATOR: JOHN F. BLOEM
DATE OF ORIGIN: 10-09-74

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
0	000	1110	16
1	201	1110	16
2	002	1110	16
3	003	1110	16
4	004	1110	16
5	005	1110	16
6	006	0100	04
7	007	1110	16
8	010	1110	16
9	011	1110	16
10	012	1110	16
11	013	0110	06
12	014	1110	16
13	015	1110	16
14	016	1110	16
15	017	0110	06
16	020	1110	16
17	021	1110	16
18	022	1110	16
19	023	0110	06
20	024	1110	16
21	025	1110	16
22	026	1000	10
23	027	0110	06
24	030	1110	16
25	031	1110	16
26	032	1110	16
27	033	0110	06
28	034	1110	16
29	035	1110	16
30	036	1110	16
31	037	0110	06
32	040	1110	16
33	041	1110	16
34	242	1110	16
35	243	1110	16

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DEC PART NUMB: 23-126A2
 ORIGINATOR: JOHN E. MOFF
 DATE OF ORIGIN: 10-09-74

ROM PATTERN SPEC

DECIMAL LOC	DECIMAL LOC	BINARY DATA	DECIMAL DATA
36	044	1110	10
37	045	1110	16
38	046	0100	04
39	047	1110	16
40	050	1110	16
41	051	1110	16
42	052	0110	06
43	053	0110	06
44	054	1110	16
45	055	1110	16
46	056	1110	16
47	057	0110	06
48	060	1110	16
49	061	1110	16
50	062	1110	16
51	063	0110	06
52	064	1110	16
53	065	1110	16
54	066	1000	1P
55	067	0110	06
56	070	1110	16
57	071	1110	16
58	072	1110	16
59	073	0110	06
60	074	1110	16
61	075	1110	16
62	076	1110	16
63	077	0110	06
64	100	1110	16
65	101	1110	16
66	102	1010	12
67	103	1110	16
68	104	1110	16
69	105	1110	16
70	106	0100	04
71	107	1110	16

DEC PART NUMB: 23-126A2
 ORIGINATOR: JOHN F. MOFF
 DATE OF ORIGIN: 10-09-74

ROM PATTERN SPEC

DECIMAL LOC	DECIMAL LOC	BINARY DATA	DECIMAL DATA
72	110	1110	16
73	111	1110	16
74	112	1110	16
75	113	0110	06
76	114	1110	16
77	115	1110	16
78	116	1110	16
79	117	0110	06
80	120	1110	16
81	121	1110	16
82	122	1010	12
83	123	0110	06
84	124	1110	16
85	125	1110	16
86	126	1000	1P
87	127	0110	06
88	130	1110	16
89	131	1110	16
90	132	1110	16
91	133	0110	06
92	134	1110	16
93	135	1110	16
94	136	1110	16
95	137	0110	06
96	140	1010	12
97	141	1110	16
98	142	1010	12
99	143	1110	16
100	144	1110	16
101	145	1110	16
102	146	0100	04
103	147	1110	16
104	150	1110	16
105	151	1110	16
106	152	1110	16
107	153	0110	06

DEC PART NUMBER 23-426A2
ORIGINATOR JOHN E BLOOM
DATE OF ORIGIN 18-09-74

DECIMAL LOC	DECIMAL LOC	BINARY DATA	DECIMAL DATA
128	194	1110	16
129	195	1110	16
130	196	1110	16
131	197	0110	06
132	160	1110	16
133	161	1110	16
134	162	1010	12
135	163	0110	06
136	164	1110	16
137	165	1110	16
138	166	1000	10
139	167	0110	06
140	170	1110	16
141	171	1110	16
142	172	1110	16
143	173	0110	06
144	174	1110	16
145	175	1110	16
146	176	1110	16
147	177	0110	06
148	204	1110	16
149	201	1110	16
150	202	1110	16
151	203	1110	16
152	204	1110	16
153	205	1110	16
154	206	0100	04
155	207	1110	16
156	210	1110	16
157	211	1110	16
158	212	1110	16
159	213	0110	06
160	214	1110	16
161	215	1110	16
162	216	1110	16
163	217	0110	06

DEC PART NUMBER 23-426A2
ORIGINATOR JOHN E BLOOM
DATE OF ORIGIN 18-09-74

DECIMAL LOC	DECIMAL LOC	BINARY DATA	DECIMAL DATA
144	220	1110	16
145	221	1110	16
146	222	1110	16
147	223	0110	06
148	224	1110	16
149	225	1110	16
150	226	1000	10
151	227	0110	06
152	230	1110	16
153	231	1110	16
154	232	1110	16
155	233	0110	06
156	234	1110	16
157	235	1110	16
158	236	1110	16
159	237	0110	06
160	244	1110	16
161	241	1110	16
162	242	1110	16
163	243	1110	16
164	244	1110	16
165	245	1110	16
166	246	0100	04
167	247	1110	16
168	254	1110	16
169	251	1110	16
170	252	1110	16
171	253	0110	06
172	254	1110	16
173	255	1110	16
174	256	1110	16
175	257	0110	06
176	264	1110	16
177	261	1110	16
178	262	1110	16
179	263	0110	06

63

DFC PART NUMBER 23-A2642
ORIGINATOR JOHN E. MOFF
DATE OF ORIGIN 10-09-74

ROW PATTERN SPEC

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
190	264	1110	16
191	265	1110	16
192	266	1000	10
193	267	0110	06
194	270	1110	16
195	271	1110	16
196	272	1110	16
197	273	0110	06
198	274	1110	16
199	275	1110	16
200	276	1110	16
201	277	0110	06
202	300	1110	16
203	301	1110	16
204	302	1010	12
205	303	1110	16
206	304	1110	16
207	305	1110	16
208	306	1110	16
209	307	0110	06
210	308	1110	16
211	309	1110	16
212	310	1110	16
213	311	1110	16
214	312	1110	16
215	313	0110	06
216	314	1110	16
217	315	1110	16
218	316	1110	16
219	317	0110	06
220	320	1110	16
221	321	1110	16
222	322	1010	12
223	323	0110	06
224	324	1110	16
225	325	1110	16
226	326	1000	10
227	327	0110	06

64

DFC PART NUMBER 23-A2642
ORIGINATOR JOHN E. MOFF
DATE OF ORIGIN 10-09-74

ROW PATTERN SPEC

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
228	330	1110	16
229	331	1110	16
230	332	1110	16
231	333	0110	06
232	334	1110	16
233	335	1110	16
234	336	1110	16
235	337	0110	06
236	340	1110	16
237	341	1110	16
238	342	1010	12
239	343	1110	16
240	344	1110	16
241	345	1110	16
242	346	0100	04
243	347	1110	16
244	350	1110	16
245	351	1110	16
246	352	1110	16
247	353	0110	06
248	354	1110	16
249	355	1110	16
250	356	1110	16
251	357	0110	06
252	360	1110	16
253	361	1110	16
254	362	1010	12
255	363	0110	06
256	364	1110	16
257	365	1110	16
258	366	1000	10
259	367	0110	06
260	370	1110	16
261	371	1110	16
262	372	1110	16
263	373	0110	06

235

ROM PATTERN SPEC ~~65~~ 65

DEC PART NUMB1 23-A27A2
 ORIGINATOR JOHN F BLOOM
 DATE OF ORIGIN 10-09-74

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
252	374	1111	16
253	375	1110	16
254	376	1110	14
255	377	0110	00

ROM PATTERN SPEC ~~66~~ 66

DEC PART NUMB1 23-A27A2
 ORIGINATOR JOHN F BLOOM
 DATE OF ORIGIN 10-09-74

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
0	000	1111	17
1	001	0111	07
2	002	0111	07
3	003	0111	07
4	004	1111	17
5	005	1111	17
6	006	1111	17
7	007	1111	17
8	010	0002	00
9	011	0002	00
10	012	0000	00
11	013	0000	00
12	014	0002	00
13	015	0000	00
14	016	0000	00
15	017	0000	00
16	020	0000	00
17	021	0002	00
18	022	0002	00
19	023	0002	00
20	024	0000	00
21	025	0000	00
22	026	0002	00
23	027	0000	00
24	030	0000	00
25	031	0002	00
26	032	0000	00
27	033	0002	00
28	034	0000	00
29	035	0000	00
30	036	0000	00
31	037	0000	00
32	040	1111	17
33	041	1112	16
34	042	0111	07
35	043	0111	07

ROM PATTERN SPEC ~~SECRET~~ 67

DEC PART NUMB: 23-A27A2
 ORIGINATOR: JOHN E. BLOOM
 DATE OF ORIGIN: 10-3-74

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
30	044	1111	17
31	045	1111	17
32	046	1111	17
33	047	1111	17
34	050	0000	00
35	051	0000	00
36	052	0000	00
37	053	0000	00
38	054	0000	00
39	055	0000	00
40	056	0000	00
41	057	0000	00
42	060	0000	00
43	061	0000	00
44	062	0000	00
45	063	0000	00
46	064	0000	00
47	065	0000	00
48	066	0000	00
49	067	0000	00
50	070	0000	00
51	071	0000	00
52	072	0000	00
53	073	0000	00
54	074	0000	00
55	075	0000	00
56	076	0000	00
57	077	0000	00
58	100	1111	17
59	101	1111	17
60	102	1111	17
61	103	1111	17
62	104	1111	17
63	105	0101	05
64	106	0101	05
65	107	0101	05

ROM PATTERN SPEC ~~SECRET~~ 68

DEC PART NUMB: 23-A27A2
 ORIGINATOR: JOHN E. BLOOM
 DATE OF ORIGIN: 10-3-74

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
72	110	0000	00
73	111	0000	00
74	112	0000	00
75	113	0000	00
76	114	0000	00
77	115	0000	00
78	116	0000	00
79	117	0000	00
80	120	0000	00
81	121	0000	00
82	122	0000	00
83	123	0000	00
84	124	0000	00
85	125	0000	00
86	126	0000	00
87	127	0000	00
88	130	0000	00
89	131	0000	00
90	132	0000	00
91	133	0000	00
92	134	0000	00
93	135	0000	00
94	136	0000	00
95	137	0000	00
96	140	1111	17
97	141	1111	17
98	142	1111	17
99	143	1111	17
100	144	1111	17
101	145	0101	05
102	146	0101	05
103	147	0101	05
104	150	0000	00
105	151	0000	00
106	152	0000	00
107	153	0000	00

FORM PATTERN SPEC

DEC PART NUMB 23-42742
 ORIGINATOR JOHN F BLOOM
 DATE OF ORIGIN 10-3-74

DECIMAL LOC	CTRL LOC	BINARY DATA	ASCII DATA
128	184	0000	00
129	185	0000	00
130	186	0000	00
131	187	0000	00
132	188	0000	00
133	189	0000	00
134	190	0000	00
135	191	0000	00
136	192	0000	00
137	193	0000	00
138	194	0000	00
139	195	0000	00
140	196	0000	00
141	197	0000	00
142	198	0000	00
143	199	0000	00
144	200	0000	00
145	201	0000	00
146	202	0000	00
147	203	0000	00
148	204	0000	00
149	205	0000	00
150	206	0000	00
151	207	0000	00
152	208	0000	00
153	209	0000	00
154	210	0000	00
155	211	0000	00
156	212	0000	00
157	213	0000	00
158	214	0000	00
159	215	0000	00
160	216	0000	00
161	217	0000	00

FORM PATTERN SPEC

DEC PART NUMB 23-42742
 ORIGINATOR JOHN F BLOOM
 DATE OF ORIGIN 10-3-74

DECIMAL LOC	CTRL LOC	BINARY DATA	ASCII DATA
144	220	0000	00
145	221	0000	00
146	222	0000	00
147	223	0000	00
148	224	0000	00
149	225	0000	00
150	226	0000	00
151	227	0000	00
152	228	0000	00
153	229	0000	00
154	230	0000	00
155	231	0000	00
156	232	0000	00
157	233	0000	00
158	234	0000	00
159	235	0000	00
160	236	0000	00
161	237	0000	00
162	240	0110	06
163	241	0110	08
164	242	0111	07
165	243	1011	13
166	244	1111	17
167	245	1111	17
168	246	1111	17
169	247	1011	13
170	250	0000	00
171	251	0000	00
172	252	0000	00
173	253	0000	00
174	254	0000	00
175	255	0000	00
176	256	0000	00
177	257	0000	00
178	260	0000	00
179	261	0000	00
180	262	0000	00
181	263	0000	00

~~SECRET~~ 71

ROM PATTERN SPEC

DEC PART NUMB: 23-A27A2
 ORIGINATOR: JOHN E. BLOOM
 DATE OF ORIGIN: 10-3-74

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
184	264	0000	00
185	265	0000	00
186	266	0000	00
187	267	0000	00
194	274	0000	00
195	275	0000	00
196	276	0000	00
197	277	0000	00
198	278	0000	00
199	279	0000	00
200	280	0000	00
201	281	0000	00
202	282	0000	00
203	283	0000	00
204	284	0000	00
205	285	0000	00
206	286	0000	00
207	287	0000	00
208	288	0000	00
209	289	0000	00
210	290	0000	00
211	291	0000	00
212	292	0000	00
213	293	0000	00
214	294	0000	00
215	295	0000	00

~~SECRET~~ 72

ROM PATTERN SPEC

DEC PART NUMB: 23-A27A2
 ORIGINATOR: JOHN E. BLOOM
 DATE OF ORIGIN: 10-3-74

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
216	304	0000	00
217	305	0000	00
218	306	0000	00
219	307	0000	00
220	308	0000	00
221	309	0000	00
222	310	0000	00
223	311	0000	00
224	312	0000	00
225	313	0000	00
226	314	0000	00
227	315	0000	00
228	316	0000	00
229	317	0000	00
230	318	0000	00
231	319	0000	00
232	320	0000	00
233	321	0000	00
234	322	0000	00
235	323	0000	00
236	324	0000	00
237	325	0000	00
238	326	0000	00
239	327	0000	00
240	328	0000	00
241	329	0000	00
242	330	0000	00
243	331	0000	00
244	332	0000	00
245	333	0000	00
246	334	0000	00
247	335	0000	00
248	336	0000	00
249	337	0000	00
250	338	0000	00
251	339	0000	00

REF ID: A73

ROW PATTERN SPEC

DEC PART NUMB: 23-42742
 ORIGINATOR: JOHN E. RUOHN
 DATE OF ORIGIN: 18-JUN-74

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
252	374	0000	00
253	375	0000	00
254	376	0000	00
255	377	0000	00

REF ID: A74

ROW PATTERN SPEC

DEC PART NUMB: 23-42742
 ORIGINATOR: JOHN E. RUOHN
 DATE OF ORIGIN: 20-MAY-75

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
0	000	1010	12
1	001	0011	03
2	002	1010	12
3	003	0011	03
4	004	0010	02
5	005	0011	03
6	006	0010	02
7	007	0011	03
8	010	1010	12
9	011	0011	03
10	012	1010	12
11	013	0011	03
12	014	1110	15
13	015	0011	03
14	016	1110	15
15	017	0011	03
16	020	0010	02
17	021	1011	13
18	022	0010	02
19	023	1011	13
20	024	0010	02
21	025	0011	03
22	026	0010	02
23	027	0011	03
24	030	0010	02
25	031	1011	13
26	032	0011	03
27	033	1011	13
28	034	1110	15
29	035	0011	03
30	036	1110	15
31	037	0011	03
32	040	1110	15
33	041	0011	03
34	042	1110	15
35	043	0011	03

REC PART NUMB 23-A29A2
 ORIGINATOR JOHN RLOFN
 DATE OF ORIGIN 28-MAY-75

~~XXXXXXXXXX~~ 75

ROM PATTERN SPEC

ORIGINAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
36	044	0110	04
37	045	0011	03
38	046	0110	06
39	047	0011	03
40	050	1110	16
41	051	0111	07
42	052	1110	16
43	053	0111	07
44	054	1010	12
45	055	0011	03
46	056	1010	12
47	057	0011	03
48	060	1010	12
49	061	0011	03
50	062	1000	10
51	063	0011	03
52	064	0110	06
53	065	0011	03
54	066	0110	06
55	067	0011	03
56	070	1010	12
57	071	0011	03
58	072	1010	12
59	073	0011	03
60	074	1010	12
61	075	0011	03
62	076	1010	12
63	077	0011	03
64	100	0010	07
65	101	1011	13
66	102	0010	07
67	103	1011	13
68	104	0010	07
69	105	0011	03
70	106	0010	07
71	107	0011	03

REC PART NUMB 23-A29A2
 ORIGINATOR JOHN RLOFN
 DATE OF ORIGIN 28-MAY-75

~~XXXXXXXXXX~~ 76

ROM PATTERN SPEC

ORIGINAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
72	110	0010	07
73	111	1011	13
74	112	0010	07
75	113	1011	13
76	114	1110	16
77	115	0011	03
78	116	1110	16
79	117	0011	03
80	120	0110	06
81	121	1111	17
82	122	0110	06
83	123	1111	17
84	124	0010	07
85	125	0011	03
86	126	0010	07
87	127	0011	03
88	130	0110	06
89	131	1111	17
90	132	0110	06
91	133	1111	17
92	134	1110	16
93	135	0011	03
94	136	1110	16
95	137	0011	03
96	140	1010	12
97	141	0011	03
98	142	1010	12
99	143	0011	03
100	144	0110	06
101	145	0011	03
102	146	0110	06
103	147	0011	03
104	150	1010	12
105	151	0011	03
106	152	1010	12
107	153	0011	03

2A1

ROM PATTERN SPEC

DEC PART NUMB: 23-A2942
ORIGINATOR: JOHN PLOEK
DATE OF ORIGIN: 20-MAY-75

DECIMAL LOC	OCTAL LOC	PRIMARY DATA	OCTAL DATA
108	154	1010	12
109	155	0011	01
110	156	1010	12
111	157	0011	01
112	160	0010	02
113	161	1011	13
114	162	0010	02
115	163	1011	13
116	164	0010	02
117	165	0011	03
118	166	0010	02
119	167	0011	03
120	170	0010	02
121	171	1011	13
122	172	0010	02
123	173	1011	13
124	174	0010	02
125	175	0011	03
126	176	1010	12
127	177	0011	03
128	200	1112	16
129	201	0011	03
130	202	1110	16
131	203	1011	13
132	204	0010	02
133	205	0011	03
134	206	0010	02
135	207	1011	13
136	210	1110	16
137	211	0011	03
138	212	1110	16
139	213	1011	13
140	214	0010	02
141	215	0011	03
142	216	0010	02
143	217	1011	13

ROM PATTERN SPEC

DEC PART NUMB: 23-A2942
ORIGINATOR: JOHN PLOEK
DATE OF ORIGIN: 20-MAY-75

DECIMAL LOC	OCTAL LOC	PRIMARY DATA	OCTAL DATA
144	220	1110	16
145	221	0011	03
146	222	1110	16
147	223	1011	13
148	224	1010	12
149	225	0011	03
150	226	1010	12
151	227	1011	13
152	230	1110	16
153	231	0011	03
154	232	1110	16
155	233	1011	13
156	234	1010	12
157	235	0011	03
158	236	1010	12
159	237	1011	13
160	240	1110	16
161	241	0011	03
162	242	1110	16
163	243	1011	13
164	244	1010	12
165	245	0011	03
166	246	1010	12
167	247	1011	13
168	250	1110	16
169	251	0011	03
170	252	1110	16
171	253	1011	13
172	254	1010	12
173	255	0011	03
174	256	1010	12
175	257	1011	13
176	260	1110	16
177	261	0011	03
178	262	1110	16
179	263	1011	13

202

DEC PART NUMB1 23-22982
 ORIGINATOR JOHN BLOEM
 DATE OF ORIGIN 20-MAY-75

ROM PATTERN SPEC

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
190	264	1110	16
191	265	0011	07
192	266	1110	16
193	267	1011	13
194	270	1110	16
195	271	0011	07
196	272	1110	16
197	273	1011	13
198	274	1110	16
199	275	0011	07
200	276	1110	16
201	277	1011	13
202	280	1110	16
203	281	0011	07
204	282	1110	16
205	283	1011	13
206	284	0110	06
207	285	0011	07
208	286	0110	06
209	287	0110	06
210	290	1110	16
211	291	0110	06
212	292	1110	16
213	293	1011	13
214	294	0110	06
215	295	0110	06
216	296	0110	06
217	297	0110	06
218	298	0110	06
219	299	0110	06
220	300	0110	06
221	301	0110	06
222	302	0110	06
223	303	0110	06
224	304	0110	06
225	305	0110	06
226	306	0110	06
227	307	0110	06
228	310	1110	16
229	311	0110	06
230	312	1110	16
231	313	1110	16
232	314	1110	16
233	315	1110	16
234	316	1110	16
235	317	1110	16
236	318	1110	16
237	319	1110	16
238	320	1110	16
239	321	1110	16
240	322	1110	16
241	323	1110	16
242	324	1110	16
243	325	1110	16
244	326	1110	16
245	327	1110	16
246	328	1110	16
247	329	1110	16
248	330	1110	16
249	331	1110	16
250	332	1110	16
251	333	1110	16
252	334	1110	16
253	335	1110	16
254	336	1110	16
255	337	1110	16

DEC PART NUMB1 23-22982
 ORIGINATOR JOHN BLOEM
 DATE OF ORIGIN 20-MAY-75

ROM PATTERN SPEC

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
216	330	1110	16
217	331	0110	06
218	332	1110	16
219	333	1110	16
220	334	0010	02
221	335	0010	02
222	336	0010	02
223	337	1011	13
224	340	1110	16
225	341	0010	02
226	342	1110	16
227	343	1011	13
228	344	0010	02
229	345	0010	02
230	346	0010	02
231	347	1011	13
232	350	1110	16
233	351	0010	02
234	352	1110	16
235	353	1011	13
236	354	0010	02
237	355	0010	02
238	356	0010	02
239	357	1011	13
240	360	1110	16
241	361	0010	02
242	362	1110	16
243	363	1011	13
244	364	1010	12
245	365	0010	02
246	366	1010	12
247	367	1011	13
248	370	1110	16
249	371	0010	02
250	372	1110	16
251	373	1011	13

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ROM PATTERN SPEC

DEC PART NUMB 23-A29A2
ORIGINATOR JOHN BLOOM
DATE OF ORIGIN 28-08-75

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
252	374	1010	12
253	375	0111	03
254	376	1010	12
255	377	1011	13

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ROM PATTERN SPEC

DEC PART NUMB 23-A31A2
ORIGINATOR JOHN E BLOOM
DATE OF ORIGIN 18-08-74

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
0	000	1111	17
1	001	1111	17
2	002	1111	17
3	003	1111	17
4	004	1111	17
5	005	1111	17
6	006	1111	17
7	007	1111	17
8	010	1110	16
9	011	1110	16
10	012	1110	16
11	013	1111	17
12	014	1111	17
13	015	1111	17
14	016	1111	17
15	017	1111	17
16	020	1011	13
17	021	1111	17
18	022	1011	13
19	023	1111	17
20	024	1111	17
21	025	1111	17
22	026	1111	17
23	027	1111	17
24	030	1110	16
25	031	1110	16
26	032	1110	16
27	033	1111	17
28	034	1111	17
29	035	1111	17
30	036	1111	17
31	037	1111	17
32	040	1101	15
33	041	1101	15
34	042	1101	15
35	043	1101	15

83

DEC PART NUMB 23-831A2
ORIGINATOR JOHN F. ROEM
DATE OF ORIGIN 18-28-74

NON PATTERN SPEC

DECIMAL LOC	OCTAL LOC	PRIMARY DATA	OCTAL DATA
36	044	1111	17
37	045	1111	17
38	046	1111	17
39	047	1111	17
40	050	1101	15
41	051	1101	15
42	052	1101	15
43	053	1101	15
44	054	1111	17
45	055	1111	17
46	056	1111	17
47	057	1111	17
48	060	1101	15
49	061	1101	15
50	062	1101	15
51	063	1101	15
52	064	1111	17
53	065	1111	17
54	066	1111	17
55	067	1111	17
56	070	1101	15
57	071	1101	15
58	072	1101	15
59	073	1101	15
60	074	1111	17
61	075	1111	17
62	076	1111	17
63	077	1111	17
64	100	0111	07
65	101	0111	07
66	102	0111	07
67	103	1111	17
68	104	1111	17
69	105	1111	17
70	106	1111	17
71	107	1111	17

84

DEC PART NUMB 23-831A2
ORIGINATOR JOHN F. ROEM
DATE OF ORIGIN 18-28-74

NON PATTERN SPEC

DECIMAL LOC	OCTAL LOC	PRIMARY DATA	OCTAL DATA
72	114	1110	16
73	111	1110	16
74	112	1110	16
75	113	1111	17
76	114	1111	17
77	115	1111	17
78	116	1111	17
79	117	1111	17
80	120	0111	07
81	121	0111	07
82	122	0111	07
83	123	1111	17
84	124	1111	17
85	125	1111	17
86	126	1111	17
87	127	1111	17
88	130	1110	16
89	131	1110	16
90	132	1110	16
91	133	1111	17
92	134	1111	17
93	135	1111	17
94	136	1111	17
95	137	1111	17
96	140	1101	15
97	141	1101	15
98	142	1101	15
99	143	1101	15
100	144	1111	17
101	145	1111	17
102	146	1111	17
103	147	1111	17
104	150	1101	15
105	151	1101	15
106	152	1101	15
107	153	1101	15

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85

DEC PART NUMB1 23-A31A2
ORIGINATOR JOHN E RLOFY
DATE OF ORIGIN 10-28-74

ROM PATTERN SPEC

DECIMAL LOC	OCTAL LOC	HEXARY DATA	OCTAL DATA
128	200	1111	17
129	201	1111	17
130	202	1111	17
131	203	1111	17
132	204	1111	17
133	205	1111	17
134	206	1111	17
135	207	1111	17
136	210	1111	17
137	211	1111	17
138	212	1111	17
139	213	1111	17
140	214	1111	17
141	215	1111	17
142	216	1111	17
143	217	1111	17
144	220	1111	17
145	221	1111	17
146	222	1111	17
147	223	1111	17
148	224	1111	17
149	225	1111	17
150	226	1111	17
151	227	1111	17
152	230	1111	17
153	231	1111	17
154	232	1111	17
155	233	1111	17
156	234	1111	17
157	235	1111	17
158	236	1111	17
159	237	1111	17
160	240	1101	15
161	241	1101	15
162	242	1101	15
163	243	1111	17
164	244	1111	17
165	245	1111	17
166	246	1111	17
167	247	1111	17
168	250	1101	15
169	251	1101	15
170	252	1101	15
171	253	1111	17
172	254	1111	17
173	255	1111	17
174	256	1111	17
175	257	1111	17
176	260	1101	15
177	261	1101	15
178	262	1101	15
179	263	1111	17

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DEC PART NUMB1 23-A31A2
ORIGINATOR JOHN F SLODY
DATE OF ORIGIN 10-28-74

ROM PATTERN SPEC

DECIMAL LOC	OCTAL LOC	HEXARY DATA	OCTAL DATA
144	220	1011	13
145	221	1111	17
146	222	1011	13
147	223	1111	17
148	224	1111	17
149	225	1111	17
150	226	1111	17
151	227	1111	17
152	230	1110	16
153	231	1110	16
154	232	1110	16
155	233	1111	17
156	234	1111	17
157	235	1111	17
158	236	1111	17
159	237	1111	17
160	240	1101	15
161	241	1101	15
162	242	1101	15
163	243	1111	17
164	244	1111	17
165	245	1111	17
166	246	1111	17
167	247	1111	17
168	250	1101	15
169	251	1101	15
170	252	1101	15
171	253	1111	17
172	254	1111	17
173	255	1111	17
174	256	1111	17
175	257	1111	17
176	260	1101	15
177	261	1101	15
178	262	1101	15
179	263	1111	17

246

27

DEC PART NUMB1 23-A31A2
ORIGINATOR JOHN E BLOFN
DATE OF ORIGIN 10-28-74

ROY PATTERN SPEC

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
180	264	1111	17
181	265	1111	17
182	266	1111	17
183	267	1111	17
184	270	1101	15
185	271	1101	15
186	272	1101	15
187	273	1111	17
188	274	1111	17
189	275	1111	17
190	276	1111	17
191	277	1111	17
192	300	0111	07
193	301	1111	17
194	302	0111	07
195	303	1111	17
196	304	1111	17
197	305	1111	17
198	306	1111	17
199	307	1111	17
200	310	1111	16
201	311	1110	16
202	312	1110	16
203	313	1111	17
204	314	1111	17
205	315	1111	17
206	316	1111	17
207	317	1111	17
208	320	0111	07
209	321	1111	17
210	322	0111	07
211	323	1111	17
212	324	1111	17
213	325	1111	17
214	326	1111	17
215	327	1111	17

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DEC PART NUMB1 23-A31A2
ORIGINATOR JOHN E BLOFN
DATE OF ORIGIN 10-28-74

ROY PATTERN SPEC

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
216	330	1111	16
217	331	1111	16
218	332	1111	16
219	333	1111	17
220	334	1111	17
221	335	1111	17
222	336	1111	17
223	337	1111	17
224	340	1101	15
225	341	1101	15
226	342	1101	15
227	343	1111	17
228	344	1111	17
229	345	1111	17
230	346	1111	17
231	347	1111	17
232	350	1121	15
233	351	1101	15
234	352	1101	15
235	353	1111	17
236	354	1111	17
237	355	1111	17
238	356	1111	17
239	357	1111	17
240	360	1121	15
241	361	1121	15
242	362	1101	15
243	363	1111	17
244	364	1111	17
245	365	1111	17
246	366	1111	17
247	367	1111	17
248	370	1101	15
249	371	1101	15
250	372	1101	15
251	373	1111	17

DPC PART NUMBER 23-1112
 ORIGINATOR JOHN E. GOREM
 DATE OF ORIGIN 10-28-74

POB PATTERN SPEC

DECIMAL LOC	DECIMAL LOC	BINARY DATA	DECIMAL DATA
252	374	1111	17
253	375	1111	17
254	376	1111	17
255	377	1111	17

~~XXXXXXXXXX~~ 87

DPC PART NUMBER 43-00101
 ORIGINATOR JOHN E. GOREM
 DATE OF ORIGIN 2/27/75

POB PATTERN SPEC

DECIMAL LOC	DECIMAL LOC	BINARY DATA	DECIMAL DATA
0	500	00000000	000
1	501	00000000	000
2	502	00000000	000
3	503	00000000	000
4	504	00000000	000
5	505	00000000	000
6	506	00000000	000
7	507	11010010	327
8	510	00011111	037
9	513	11001111	257
10	512	01101111	157
11	513	10001111	237
12	513	00101111	057
13	515	11001111	317
14	516	00000000	000
15	517	00000000	000
16	520	11101110	350
17	521	01101110	120
18	522	00000000	000
19	523	00101110	050
20	524	10101110	200
21	525	11011110	330
22	526	01011110	130
23	527	10001110	230
24	530	00100101	045
25	531	00000000	000
26	532	10110110	200
27	533	00000000	000
28	534	10101110	200
29	535	00101110	045
30	536	00000000	000
31	537	00101110	045
32	540	00000011	003
33	541	11111101	435
34	542	01111101	175
35	543	00011111	075

~~XXXXXXXXXX~~ 90

ZAP

MIN. PATTERN SPEC

DEC PART 40001 23-00101
ORIGINATOR JOHN MOORE
DATE OF ORIGIN 77-07-07

DECIMAL LOC	DECIMAL LOC	MINARY DATA	DECIMAL DATA
36	034	0011101	075
37	035	10100110	240
38	036	01011101	135
39	037	00000000	000
40	038	00011101	035
41	039	10001001	211
42	040	01101101	185
43	041	10010001	221
44	042	00101101	055
45	043	01000001	101
46	044	01001101	115
47	045	00000000	000
48	046	00110101	065
49	047	01010101	125
50	048	10010101	225
51	049	10011100	235
52	050	01100101	145
53	051	00101001	081
54	052	00110001	061
55	053	00100001	041
56	054	10110101	270
57	055	01011010	130
58	056	10011010	230
59	057	10001100	210
60	058	10101010	250
61	059	00110010	080
62	060	00100010	040
63	061	00100010	040
64	100	01100011	150
65	101	01101011	150
66	102	00000000	000
67	103	10111011	270
68	104	00011011	070
69	105	11011011	330
70	106	01011011	130
71	107	10011011	230

MIN. PATTERN SPEC

DEC PART 40001 23-00101
ORIGINATOR JOHN MOORE
DATE OF ORIGIN 77-07-07

DECIMAL LOC	DECIMAL LOC	MINARY DATA	DECIMAL DATA
72	110	00011011	030
73	111	11010111	260
74	112	10100011	260
75	113	10101011	250
76	114	00101011	050
77	115	11001011	310
78	116	10110011	260
79	117	10001011	210
80	140	10000001	201
81	141	00000001	001
82	142	00000101	000
83	143	00010110	020
84	144	11101010	050
85	145	11011010	230
86	146	11101010	250
87	147	00100010	040
88	148	00011010	030
89	149	10111110	270
90	150	11010110	250
91	151	10101010	250
92	152	11010110	240
93	153	10100110	240
94	154	00000000	000
95	155	00000000	000
96	156	01001010	110
97	157	10001010	210
98	140	10101011	250
99	141	01110110	160
100	142	00010001	031
101	143	00110110	060
102	144	10111001	111
103	145	00011001	041
104	146	00101110	050
105	147	10011001	231
106	150	11001101	215
107	151	01100110	140
108	152	00011001	031
109	153	00100110	040

NON PATTERN SPEC

DEC PAGE NUMBER 23-00000
ORIGINATOR 0000 0000
DATE OF ORIGIN 7/7/64-75

OFFICIAL NO.	ACTUAL DOC.	MIRAGE DATA	ACTUAL DATA
108	154	10110001	261
109	155	11001001	311
110	156	01001001	311
111	157	10001001	211
112	160	10010011	221
113	161	11100011	343
114	162	01100011	343
115	163	10011000	230
116	164	10000011	201
117	165	10111101	275
118	166	11011101	335
119	167	10011101	235
120	170	01000111	107
121	171	00000111	007
122	172	11110111	373
123	173	10010000	210
124	174	01111011	173
125	175	01111011	123
126	176	01101011	153
127	177	10000010	202
128	200	00010000	010
129	201	11100000	340
130	202	00000000	000
131	203	10110111	267
132	204	00110111	067
133	205	11010111	377
134	206	01010111	127
135	207	10100110	246
136	210	00010111	077
137	211	11001011	367
138	212	01101011	153
139	213	10100111	247
140	214	00100111	047
141	215	11001011	307
142	216	01100011	153
143	217	10000111	207

NON PATTERN SPEC

DEC PAGE NUMBER 23-00000
ORIGINATOR 0000 0000
DATE OF ORIGIN 7/7/64-75

OFFICIAL NO.	ACTUAL DOC.	MIRAGE DATA	ACTUAL DATA
144	220	00010001	011
145	221	10110001	261
146	222	00001110	016
147	223	10001110	216
148	224	10110110	266
149	225	00000000	000
150	226	01010110	126
151	227	00000000	000
152	230	00010001	021
153	231	11100001	341
154	232	00000000	000
155	233	10010110	276
156	234	01000110	132
157	235	11010110	352
158	236	01001110	106
159	237	10000110	206
160	240	11001011	345
161	241	11101011	355
162	242	01110101	365
163	243	10110101	265
164	244	11001011	345
165	245	11010101	325
166	246	11100101	345
167	247	00111001	071
168	250	00010101	025
169	251	11001011	345
170	252	10100110	246
171	253	01101110	156
172	254	00011001	031
173	255	11001011	305
174	256	01000101	105
175	257	10000101	205
176	260	00001001	005
177	261	11011001	331
178	262	01011001	141
179	263	10010100	224

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END PATTERNS SPEC

DEC 0001 00001 23-00101
ORIG-DATA: 0001 0001 0000 1
DATE OF ORIGIN: 2/2/75

ORIGIN LOC	ORIG- LOC	BINARY DATA	TOTAL DATA
100	704	10101001	251
101	205	00111111	076
102	208	11110100	056
103	767	01101010	056
104	479	01111100	031
105	777	01100010	204
106	777	01110010	111
107	777	01101011	116
108	777	01101011	039
109	572	01101010	046
110	572	01101010	072
111	572	01101010	057
112	177	01010100	483
113	706	11001010	000
114	706	11001010	101
115	706	11001010	000
116	706	11001010	000
117	706	11001010	000
118	706	11001010	000
119	706	11001010	000
120	706	11001010	000
121	706	11001010	000
122	706	11001010	000
123	706	11001010	000
124	706	11001010	000
125	706	11001010	000
126	706	11001010	000
127	706	11001010	000
128	706	11001010	000
129	706	11001010	000
130	706	11001010	000
131	706	11001010	000
132	706	11001010	000
133	706	11001010	000
134	706	11001010	000
135	706	11001010	000
136	706	11001010	000
137	706	11001010	000
138	706	11001010	000
139	706	11001010	000
140	706	11001010	000
141	706	11001010	000
142	706	11001010	000
143	706	11001010	000
144	706	11001010	000
145	706	11001010	000
146	706	11001010	000
147	706	11001010	000
148	706	11001010	000
149	706	11001010	000
150	706	11001010	000

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END PATTERNS SPEC

DEC 0001 0001 23-00101
ORIG-DATA: 0001 0001 0000 1
DATE OF ORIGIN: 2/2/75

ORIGIN LOC	ORIG- LOC	BINARY DATA	TOTAL DATA
110	336	11001010	306
111	331	00000000	000
112	332	00010010	022
113	332	00000000	000
114	334	00000000	000
115	335	00000000	010
116	335	11001010	212
117	335	10100010	242
118	335	10100010	282
119	335	10100010	355
120	340	10001010	215
121	341	01110100	172
122	342	00000000	000
123	342	00110100	072
124	344	11000001	341
125	345	11010001	271
126	346	01010001	171
127	346	10010001	221
128	350	01010110	129
129	351	00000000	000
130	352	00000000	000
131	352	10100010	245
132	354	10100010	443
133	354	11000000	100
134	354	01000000	100
135	357	00000000	000
136	360	01001011	113
137	361	00001011	013
138	362	11110011	385
139	362	10010000	220
140	364	01100011	163
141	365	00110011	263
142	365	10110011	283
143	367	10110011	286
144	367	10110011	167
145	372	01100111	147
146	372	00000000	000
147	372	11110001	011
148	372	10000111	017
149	372	10000111	017
150	372	10000111	217

REC PART NUMBER 23-00281
 ORIGINATOR JOHN BLOEM
 DATE OF ORIGIN 12-MAY-75

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
252	074	10010111	227
254	075	00000000	000
256	076	01001111	117
258	077	01000011	102

REC PART NUMBER 23-00281
 ORIGINATOR JOHN BLOEM
 DATE OF ORIGIN 12-MAY-75

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
0	000	00110000	260
1	001	00110000	260
2	002	00110000	260
3	003	00110000	260
4	004	00110000	260
5	005	00110000	260
6	006	00110000	260
7	007	00110000	260
8	010	00111100	072
9	011	00111100	074
10	012	00111100	074
11	013	00111100	070
12	014	00111100	074
13	015	00111100	074
14	016	10110000	200
15	017	10110000	200
16	020	00110000	070
17	021	00110000	070
18	022	00110100	064
19	023	00110000	070
20	024	00000000	000
21	025	00111100	074
22	026	00000000	000
23	027	00110000	070
24	030	00111100	074
25	031	10000000	200
26	032	00000000	000
27	033	10000000	200
28	034	00110000	070
29	035	00000000	000
30	036	00110000	060
31	037	00000000	000
32	040	00110000	060
33	041	10000000	200
34	042	00111100	074
35	043	10000000	200

DEC PART NUMB: 23-00281
 ORIGINATOR: JOHN RUGEN
 DATE OF ORIGIN: 12-MAY-75

ROW PATTERN SPEC

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
36	044	0011100	074
37	045	1000000	200
38	046	0011100	074
39	047	0011100	074
40	050	0010000	040
41	051	0000000	000
42	052	0000000	000
43	053	0000000	000
44	054	0000000	000
45	055	0000000	000
46	056	0000000	000
47	057	1011000	260
48	060	0000000	000
49	061	0000000	000
50	062	1111000	370
51	063	1111000	370
52	064	0000000	000
53	065	0000000	000
54	066	0000000	000
55	067	0000000	000
56	070	0000000	000
57	071	0000000	000
58	072	1111000	370
59	073	1111000	370
60	074	0000000	000
61	075	0000000	000
62	076	0000000	000
63	077	0000000	000
64	100	0000000	000
65	101	0011000	070
66	102	0011000	074
67	103	0000000	000
68	104	0011000	074
69	105	0000000	000
70	106	0011000	000
71	107	0000000	000

DEC PART NUMB: 23-00281
 ORIGINATOR: JOHN RUGEN
 DATE OF ORIGIN: 12-MAY-75

ROW PATTERN SPEC

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
72	110	1111000	370
73	111	0011100	074
74	112	0000000	000
75	113	0011100	074
76	114	0000000	000
77	115	0011000	070
78	116	0000000	000
79	117	0011000	070
80	120	0011100	074
81	121	1000000	200
82	122	0011000	070
83	123	1000000	200
84	124	0000000	000
85	125	0011000	070
86	126	0000000	000
87	127	0000000	000
88	130	0011100	074
89	131	1000000	200
90	132	0011000	070
91	133	1000000	200
92	134	0011000	070
93	135	0110000	100
94	136	0000000	000
95	137	0011000	070
96	140	0011100	074
97	141	0000000	000
98	142	0000000	000
99	143	0000000	000
100	144	0011000	070
101	145	0000000	000
102	146	0000000	000
103	147	0011000	070
104	150	0011100	074
105	151	0000000	000
106	152	0011000	070
107	153	0000000	000

NO. PATTERN SPEC

DEC PART NUMB 23-80281
 ORIGINATOR JOHN BLOEM
 DATE OF ORIGIN 12-MAY-75

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
108	134	00020000	000
109	135	00111100	074
110	136	10002000	200
111	137	00000000	000
112	160	00000000	000
113	161	00000000	000
114	162	11110000	370
115	163	11110000	370
116	164	00020000	000
117	165	00020000	000
118	166	00020000	000
119	167	00020000	000
120	170	00020000	000
121	171	00020000	000
122	172	11110000	370
123	173	11110000	370
174	174	00020000	000
175	175	00020000	000
176	176	00020000	000
177	177	11110000	370
178	178	11110000	370
200	200	00111100	074
201	201	00020000	000
202	202	00110000	070
203	203	01110000	140
204	204	00020000	000
205	205	00111100	074
206	206	00111100	070
207	207	00110000	070
210	210	00000000	000
211	211	00111100	074
212	212	00020000	000
213	213	00111100	074
214	214	00020000	000
215	215	00110000	070
216	216	00000000	000
217	217	00110000	070

NO. PATTERN SPEC

DEC PART NUMB 23-80281
 ORIGINATOR JOHN BLOEM
 DATE OF ORIGIN 12-MAY-75

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
144	220	00111100	074
145	221	10002000	200
146	222	00111100	074
147	223	10002000	200
148	224	00110000	070
149	225	00110000	070
150	226	00110000	000
151	227	00110000	000
152	234	00111100	074
153	231	10002000	200
154	232	00111100	074
155	233	10002000	200
156	234	00020000	000
157	235	00020000	000
158	236	00111100	074
159	237	00020000	000
160	240	00020000	000
161	241	00111100	074
162	242	00020000	000
163	243	00110000	070
164	244	00020000	000
165	245	00110000	070
166	246	00020000	000
167	247	00020000	000
168	250	00111100	074
169	251	00110000	070
170	252	10110000	200
171	253	00020000	000
172	234	00020000	000
173	235	00111100	074
174	236	00020000	000
175	237	00110000	070
176	240	00020000	000
177	241	00020000	000
178	242	11110000	370
179	243	11110000	370

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ROM PATTERN SPEC

DEC PART NU481 23-00281
ORIGINATOR: JOHN BLOEM
DATE OF ORIGIN: 12-MAY-75

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
180	264	0000000	000
181	265	0000001	002
182	266	0000010	002
183	267	0000010	002
184	270	0000000	000
185	271	0000000	000
186	272	1111000	372
187	273	1111000	370
188	274	0000000	000
189	275	0000010	002
190	276	0000010	002
191	277	0000010	002
192	300	0000000	000
193	301	0011000	070
194	302	0011000	074
195	303	0000000	000
196	304	0011100	074
197	305	0000000	000
198	306	0011000	070
199	307	0000000	000
200	310	0011100	070
201	311	0000000	000
202	312	1000000	200
203	313	0011100	074
204	314	0000000	000
205	315	0011100	074
206	316	0011000	070
207	317	0011000	070
208	320	0011000	070
209	321	0011000	070
210	322	0011000	070
211	323	0011000	070
212	324	0000000	000
213	325	0000000	000
214	326	0010000	060
215	327	0000000	000

ROM PATTERN SPEC

DEC PART NU481 23-00281
ORIGINATOR: JOHN BLOEM
DATE OF ORIGIN: 12-MAY-75

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
216	330	0011100	074
217	331	1011100	274
218	332	1111000	370
219	333	1011100	274
220	334	0011100	074
221	335	0000000	000
222	336	0011000	070
223	337	0000000	000
224	340	0011100	074
225	341	0000000	000
226	342	0011000	070
227	343	0000000	000
228	344	0000000	000
229	345	0011100	074
230	346	1000000	200
231	347	0000000	000
232	350	0011000	070
233	351	0000000	000
234	352	0000000	000
235	353	0000000	000
236	354	0011100	074
237	355	1000000	200
238	356	0000000	000
239	357	0011000	070
240	360	0000000	000
241	361	0000000	000
242	362	1111000	370
243	363	1111000	370
244	364	0000000	000
245	365	0000000	000
246	366	0000000	000
247	367	1000000	200
248	370	0000000	000
249	371	0000000	000
250	372	0011000	070
251	373	0011000	070

SEC PART NUMB 23-00281
ORIGINATOR JOHN BLOEM
DATE OF ORIGIN 12-MAY-75

ROM PATTERN SPEC

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
252	174	0000000	000
253	175	0000000	000
254	176	0000000	000
255	177	0000001	001

SEC PART NUMB 23-00281
ORIGINATOR JOHN BLOEM
DATE OF ORIGIN 12-MAY-75

ROM PATTERN SPEC

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
0	000	01010000	120
1	001	01010000	120
2	002	01010000	120
3	003	01010000	120
4	004	01010000	120
5	005	01010000	120
6	006	01010000	120
7	007	01110000	100
8	010	01110000	100
9	011	00110000	060
10	012	01110000	100
11	013	00110000	060
12	014	01110000	100
13	015	01110000	100
14	016	01110000	170
15	017	01110000	170
16	020	00100000	040
17	021	00100000	040
18	022	01110000	100
19	023	00110000	060
20	024	01010001	121
21	025	01110000	100
22	026	01110000	100
23	027	00110000	060
24	030	01110000	100
25	031	00110000	060
26	032	01110000	100
27	033	01110000	170
28	034	00110000	060
29	035	01010001	121
30	036	01110011	103
31	037	01020101	105
32	040	01110011	103
33	041	01110010	170
34	042	01110000	100
35	043	01110000	170

ROM PATTERN SPEC
DEC PART NUMB1 23-003B1
ORIGINATOR JOHN BLOEM
DATE OF ORIGIN 12-MAY-75

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
36	044	01110000	160
37	045	01110000	170
38	046	01110000	180
39	047	01110000	190
40	050	01010000	120
41	051	01110000	160
42	052	01110000	160
43	053	01110000	160
44	054	01110000	160
45	055	01110000	160
46	056	01110000	160
47	057	01110000	170
48	060	01010001	121
49	061	01010001	121
50	062	00110000	060
51	063	00100000	040
52	064	01010001	121
53	065	01000101	100
54	066	01000101	100
55	067	01110000	160
56	070	01010001	121
57	071	01010001	121
58	072	00110000	060
59	073	00100000	040
60	074	01010001	121
61	075	01000001	101
62	076	01000001	101
63	077	01110000	160
64	100	01010001	121
65	101	00110000	060
66	102	01110000	160
67	103	01110000	160
68	104	01110000	160
69	105	01110000	160
70	106	01110011	160
71	107	01110000	160

ROM PATTERN SPEC
DEC PART NUMB1 23-003B1
ORIGINATOR JOHN BLOEM
DATE OF ORIGIN 12-MAY-75

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
72	110	00110000	060
73	111	01110000	160
74	112	01010001	121
75	113	01110000	160
76	114	01110000	160
77	115	00110000	060
78	116	01110000	160
79	117	00110000	060
80	120	01110000	160
81	121	00110000	060
82	122	00110000	060
83	123	01110000	170
84	124	01110000	160
85	125	00110000	060
86	126	01010001	121
87	127	01000001	101
88	130	01110000	160
89	131	00110000	060
90	132	00110000	060
91	133	01110000	170
92	134	00110000	060
93	135	01110000	170
94	136	01010001	121
95	137	01110000	160
96	140	01110000	160
97	141	01110000	160
98	142	01110000	160
99	143	01110000	160
100	144	00110000	060
101	145	01010001	121
102	146	01000001	101
103	147	01110000	160
104	150	01110000	160
105	151	01110000	160
106	152	00110000	060
107	153	01110000	160

ROM PATTERN SPEC

DEC PART NUMB1 23-00381
ORIGINATOR: JOHN BLOEM
DATE OF ORIGIN 12-MAY-75

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
100	154	0111000	147
101	155	0111000	148
102	156	0111000	149
103	157	0111000	150
104	160	0101001	151
105	161	0101001	152
106	162	0011000	000
107	163	0011000	000
108	164	0101001	121
109	165	0101001	125
110	166	0101001	125
111	167	0111000	160
112	170	0101001	121
113	171	0101001	121
114	172	0011000	000
115	173	0011000	000
116	174	0101001	121
117	175	0111000	160
118	176	0111000	160
119	177	0011000	000
120	200	0111000	160
121	201	0111000	160
122	202	0011000	000
123	203	0111000	170
124	204	0101001	121
125	205	0111000	160
126	206	0011000	000
127	207	0011000	000
128	210	0101001	121
129	211	0111000	160
130	212	0101001	121
131	213	0111000	160
132	214	0111000	160
133	215	0011000	000
134	216	0111000	160
135	217	0011000	000

ROM PATTERN SPEC

DEC PART NUMB1 23-00381
ORIGINATOR: JOHN BLOEM
DATE OF ORIGIN 12-MAY-75

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
144	220	0111000	160
145	221	0011000	000
146	222	0111000	160
147	223	0111000	170
148	224	0011000	000
149	225	0010000	000
150	226	0111001	163
151	227	0111001	163
152	230	0111000	160
153	231	0011000	000
154	232	0111000	160
155	233	0111000	170
156	234	0111000	160
157	235	0101001	121
158	236	0111000	160
159	237	0111000	160
160	240	0101001	121
161	241	0111000	160
162	242	0111000	160
163	243	0011000	000
164	244	0111000	160
165	245	0011000	000
166	246	0101001	121
167	247	0100001	103
168	250	0111000	160
169	251	0011000	000
170	252	0111000	170
171	253	0111000	160
172	254	0101001	121
173	255	0111000	160
174	256	0111000	160
175	257	0011000	000
176	260	0101001	121
177	261	0101001	121
178	262	0011000	000
179	263	0011000	000

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ROM PATTERN SPEC

DEC DEPT NUMB1 23-203R1
 ORIGINATOR: JOHN BLOEM
 DATE OF ORIGIN: 12-MSY-75

DECIMAL LOC	OCTAL LOC	PRIMARY DATA	OCTAL DATA
180	264	01010001	121
181	265	01000001	121
182	266	01000001	101
183	267	01110000	160
184	272	01010001	121
185	271	01010001	121
186	272	00110000	060
187	273	00100000	040
188	274	01010001	121
189	275	01000001	101
190	276	01000001	101
191	277	01110000	160
192	340	01010001	121
193	301	00110000	060
194	302	01110000	160
195	303	01010001	121
196	304	01110000	160
197	305	01110000	160
198	306	00110000	060
199	307	01110000	160
200	310	00110000	060
201	311	01010001	121
202	312	01110000	160
203	313	01110000	160
204	314	01010001	121
205	315	01110000	160
206	316	00110000	060
207	317	00110000	060
208	320	00100000	040
209	321	00100000	040
210	322	00110000	060
211	323	00110000	060
212	324	01010001	121
213	325	01110000	160
214	326	01110000	160
215	327	01110000	160

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ROM PATTERN SPEC

DEC DEPT NUMB1 23-203R1
 ORIGINATOR: JOHN BLOEM
 DATE OF ORIGIN: 12-MSY-75

DECIMAL LOC	OCTAL LOC	PRIMARY DATA	OCTAL DATA
216	330	01110000	160
217	331	00110000	060
218	332	00110000	060
219	333	01110000	160
220	334	01110000	160
221	335	01010001	121
222	336	11110011	373
223	337	00110000	060
224	340	01110000	160
225	341	01110000	160
226	342	01110000	147
227	343	01110000	160
228	344	01110000	142
229	345	01110000	160
230	346	00110000	060
231	307	01110000	160
232	350	01000001	101
233	351	01110000	160
234	352	01110000	160
235	353	01110000	160
236	354	01110000	160
237	355	01110000	070
238	356	01110000	160
239	357	01110000	147
240	360	01010001	121
241	361	00110000	060
242	362	00110000	060
243	363	00110000	060
244	364	01010001	121
245	365	01110000	160
246	366	01110000	160
247	367	01110000	170
248	370	01010001	121
249	371	01110000	160
250	372	01110000	160
251	373	01110000	360

113

ROM PATTERN SPEC

DEC PART NUMB 23-0031
ORIGINATOR JOHN BLOER
DATE OF ORIGIN 12-MAY-75

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
252	274	01010001	171
253	275	01110000	168
254	276	01110000	168
255	277	01110000	168

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ROM PATTERN SPEC

DEC PART NUMB 23-0031
ORIGINATOR JOHN BLOER
DATE OF ORIGIN 12-MAY-75

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
0	040	00101111	057
1	041	00101111	057
2	042	00101111	057
3	043	00101111	057
4	044	00101111	057
5	045	00101111	057
6	046	00101111	057
7	047	00101001	043
8	048	00100011	043
9	049	00011111	017
10	050	00100011	043
11	051	00001010	012
12	052	00111100	074
13	053	00111001	071
14	054	00101110	066
15	055	00000100	004
16	056	00001010	012
17	057	00001010	012
18	058	00111001	071
19	059	00001010	012
20	060	00101111	057
21	061	00111001	071
22	062	00101010	052
23	063	00001010	012
24	064	00110001	071
25	065	00101111	057
26	066	00101010	052
27	067	00101111	057
28	068	00001010	012
29	069	00101111	057
30	070	00111001	071
31	071	00101111	057
32	072	00111001	071
33	073	00101111	057
34	074	00101111	057
35	075	00101111	057

DEC PART NUMBER 23-86441
 ORIGINATOR JOHN BLEDM
 DATE OF ORIGIN 12-24-75

ROW PATTERN SPEC

ORIGINAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
34	044	0011001	071
37	045	0010111	057
38	046	0011001	071
39	047	0010101	052
40	050	0010111	057
41	051	0011001	071
42	052	0010111	057
43	053	0011001	071
44	054	0010111	057
45	055	0011001	071
46	056	0010111	057
47	057	0010111	057
48	060	0010111	057
49	061	0010111	057
50	062	0010101	045
51	063	0010101	045
52	064	0010111	057
53	065	0010111	057
54	066	0010111	057
55	067	0010111	057
56	070	0010111	057
57	071	0010111	057
58	072	0010101	045
59	073	0010101	045
60	074	0010111	057
61	075	0010111	057
62	076	0010111	057
63	077	0010111	057
64	100	0010111	057
65	101	0000101	012
66	102	0011001	071
67	103	0010111	057
68	104	0011001	071
69	105	0010111	057
70	106	0011001	071
71	107	0010111	057

DEC PART NUMBER 23-86441
 ORIGINATOR JOHN BLEDM
 DATE OF ORIGIN 12-24-75

ROW PATTERN SPEC

ORIGINAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
72	110	0010101	045
73	111	0011001	071
74	112	0010111	057
75	113	0011001	071
76	114	0010101	052
77	115	0000101	012
78	116	0010101	052
79	117	0000101	012
80	120	0011001	071
81	121	0010111	057
82	122	0000101	012
83	123	0010111	057
84	124	0010101	052
85	125	0000101	012
86	126	0010111	057
87	127	0010111	057
88	130	0011001	071
89	131	0010111	057
90	132	0000101	012
91	133	0010111	057
92	134	0000101	012
93	135	0011001	071
94	136	0010111	057
95	137	0011001	071
96	140	0011001	071
97	141	0011001	071
98	142	0010101	052
99	143	0011001	071
100	144	0000101	012
101	145	0010111	057
102	146	0010111	057
103	147	0011001	071
104	150	0011001	071
105	151	0011001	071
106	152	0000101	012
107	153	0011001	071

ROM PATTERN SPEC

DEC PART NUMB: 23-80481
 ORIGINATOR: JOHN KUHN
 DATE OF ORIGIN: 12-MAY-75

117

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
108	154	00101111	057
109	155	00110001	071
110	156	00101111	057
111	157	00101111	057
112	158	00101111	057
113	161	00101111	057
114	162	00101010	045
115	163	00101010	045
116	164	00101111	057
117	165	00101111	057
118	166	00101111	057
119	167	00101111	057
120	170	00101111	057
121	171	00101111	057
122	172	00101010	045
123	173	00101010	045
124	174	00101111	057
125	175	00101111	057
126	176	00101111	057
127	177	00101010	045
128	200	00111001	071
129	201	00111001	071
130	202	00001010	012
131	203	00111001	071
132	204	00101111	057
133	205	00111001	071
134	206	00001010	012
135	207	00001010	012
136	210	00101111	057
137	211	00111001	071
138	212	00101111	057
139	213	00111001	071
140	214	00101010	052
141	215	00001010	012
142	216	00101010	052
143	217	00001010	012

ROM PATTERN SPEC

DEC PART NUMB: 23-80481
 ORIGINATOR: JOHN KUHN
 DATE OF ORIGIN: 12-MAY-75

118

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
144	220	00111001	071
145	221	00101111	057
146	222	00111001	071
147	223	00101111	057
148	224	00001010	012
149	225	00001010	012
150	226	00111001	071
151	227	00111001	071
152	230	00111001	071
153	231	00101111	057
154	232	00111001	071
155	233	00101111	057
156	234	00101111	057
157	235	00101111	057
158	236	00111001	071
159	237	00101010	052
160	240	00101111	057
161	241	00111001	071
162	242	00101010	052
163	243	00001010	012
164	244	00101010	052
165	245	00001010	012
166	246	00101111	057
167	247	00101111	057
168	250	00111001	071
169	251	00001010	012
170	252	00101111	057
171	253	00101111	057
172	254	00101111	057
173	255	00111001	071
174	256	00101010	052
175	257	00001010	012
176	260	00101111	057
177	261	00101111	057
178	262	00101010	052
179	263	00101010	052

262

ROM PATTERN SPEC

DEC PART NUMBER 23-84481
ORIGINATOR JOHN BLOEM
DATE OF ORIGIN 12-MAY-75

ORIGINAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
182	264	00101111	057
183	265	00101111	057
184	266	00101111	057
185	267	00101111	057
186	270	00101111	057
187	271	00101111	057
188	272	00101111	057
189	273	00101111	057
190	274	00101111	057
191	275	00101111	057
192	276	00101111	057
193	300	00101111	057
194	301	00101111	057
195	302	00101111	057
196	303	00101111	057
197	304	00101111	057
198	305	00101111	057
199	306	00101111	057
200	307	00101111	057
201	310	00101111	057
202	311	00101111	057
203	312	00101111	057
204	313	00101111	057
205	314	00101111	057
206	315	00101111	057
207	316	00101111	057
208	317	00101111	057
209	320	00101111	057
210	321	00101111	057
211	322	00101111	057
212	323	00101111	057
213	324	00101111	057
214	325	00101111	057
215	326	00101111	057
	327	00101111	057

ROM PATTERN SPEC

DEC PART NUMBER 23-84481
ORIGINATOR JOHN BLOEM
DATE OF ORIGIN 12-MAY-75

ORIGINAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
216	328	00110001	071
217	311	00110001	071
218	312	00110001	045
219	313	00110001	071
220	316	00110001	071
221	315	00110001	057
222	316	00110001	057
223	317	00110001	071
224	320	00110001	071
225	341	00110001	071
226	342	00110001	071
227	343	00110001	071
228	344	00110001	057
229	345	00110001	071
230	346	00110001	057
231	347	00110001	057
232	350	00110001	071
233	351	00110001	071
234	352	00110001	057
235	353	00110001	071
236	354	00110001	071
237	355	00110001	057
238	356	00110001	057
239	357	00110001	071
240	360	00110001	057
241	361	00110001	057
242	362	00110001	045
243	363	00110001	045
244	364	00110001	057
245	365	00110001	057
246	366	00110001	057
247	367	00110001	057
248	370	00110001	057
249	371	00110001	057
250	372	00110001	057
251	373	00110001	057

ROW PATTERN SPEC

DEC PART NUMB1 23-00541
 ORIGINATOR: JOHN BLOEM
 DATE OF ORIGIN 12-04-75

DECIMAL LOC	DECIMAL LOC	BINARY DATA	ACTAL DATA
252	374	00101111	057
253	375	00112011	071
254	376	00101111	057
255	377	00101111	057

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ROW PATTERN SPEC

DEC PART NUMB1 23-00541
 ORIGINATOR: JOHN BLOEM
 DATE OF ORIGIN 12-04-75

DECIMAL LOC	DECIMAL LOC	BINARY DATA	ACTAL DATA
0	000	00001010	012
1	001	00001010	012
2	002	00001010	012
3	003	00001010	012
4	004	00001010	012
5	005	00001010	012
6	006	00001010	012
7	007	01101112	156
8	008	01101112	156
9	009	01101110	156
10	010	01101110	156
11	011	01101110	156
12	012	01101110	156
13	013	01001011	113
14	014	00001111	017
15	015	00001111	017
16	016	00001111	017
17	017	00001111	017
18	018	00001111	017
19	019	00001111	017
20	020	00001111	017
21	021	00001111	017
22	022	00001111	017
23	023	00001111	017
24	024	00001111	017
25	025	00001111	017
26	026	00001111	017
27	027	00001111	017
28	028	00001111	017
29	029	00001111	017
30	030	00001111	017
31	031	00001111	017
32	032	00001111	017
33	033	00001111	017
34	034	00001111	017
35	035	00001111	017

122

DEC PART NUMB 23-00501
ORIGINATOR JOHN BLOM
DATE OF ORIGIN 12-MAY-75

NON PATTERN SPEC

ORIGINAL LOC	ORIGINAL LOC	BINARY DATA	ORIGINAL DATA
36	44	0110111	157
37	45	1110111	157
38	46	0110111	157
39	47	0110111	153
40	48	0001010	212
41	49	0001010	212
42	50	0110111	157
43	51	0001010	212
44	52	0110111	157
45	53	0001010	212
46	54	0110111	157
47	55	1001000	210
48	56	0110111	153
49	57	0110111	153
50	58	0001010	210
51	59	0001010	210
52	60	0001010	212
53	61	0001010	212
54	62	0001010	210
55	63	0001010	210
56	64	0110111	153
57	65	0110111	153
58	66	0001010	202
59	67	0001010	202
60	68	0001010	202
61	69	0001010	202
62	70	0001010	202
63	71	0001010	202
64	72	0001010	202
65	73	0001010	202
66	74	0001010	202
67	75	0001010	202
68	76	0001010	202
69	77	0001010	202
70	78	0001010	202
71	79	0001010	202

DEC PART NUMB 23-00501
ORIGINATOR JOHN BLOM
DATE OF ORIGIN 12-MAY-75

NON PATTERN SPEC

ORIGINAL LOC	ORIGINAL LOC	BINARY DATA	ORIGINAL DATA
72	130	0010101	253
73	131	0010101	256
74	132	0010101	256
75	133	0010101	256
76	134	0001010	212
77	135	0110101	153
78	136	0001010	210
79	137	0110101	153
80	138	0110111	157
81	139	1100111	316
82	140	0110111	157
83	141	0110111	153
84	142	0110111	153
85	143	0001010	202
86	144	0001010	202
87	145	0001010	202
88	146	0001010	202
89	147	0001010	202
90	148	0001010	202
91	149	0001010	202
92	150	0110101	173
93	151	0001010	212
94	152	0110101	156
95	153	0110101	153
96	154	0110111	157
97	155	0001010	212
98	156	0001010	210
99	157	0001010	210
100	158	0110111	153
101	159	0001010	210
102	160	0001010	256
103	161	0001010	256
104	162	0001010	256
105	163	0001010	256
106	164	0001010	256
107	165	0001010	256
108	166	0001010	256
109	167	0001010	256
110	168	0001010	256
111	169	0001010	256
112	170	0001010	256
113	171	0001010	256
114	172	0001010	256
115	173	0001010	256
116	174	0001010	256
117	175	0001010	256
118	176	0001010	256
119	177	0001010	256
120	178	0001010	256
121	179	0001010	256
122	180	0001010	256
123	181	0001010	256
124	182	0001010	256
125	183	0001010	256
126	184	0001010	256
127	185	0001010	256
128	186	0001010	256
129	187	0001010	256
130	188	0001010	256
131	189	0001010	256
132	190	0001010	256
133	191	0001010	256
134	192	0001010	256
135	193	0001010	256
136	194	0001010	256
137	195	0001010	256
138	196	0001010	256
139	197	0001010	256
140	198	0001010	256
141	199	0001010	256
142	200	0001010	256
143	201	0001010	256
144	202	0001010	256
145	203	0001010	256
146	204	0001010	256
147	205	0001010	256
148	206	0001010	256
149	207	0001010	256
150	208	0001010	256
151	209	0001010	256
152	210	0001010	256
153	211	0001010	256
154	212	0001010	256
155	213	0001010	256
156	214	0001010	256
157	215	0001010	256
158	216	0001010	256
159	217	0001010	256
160	218	0001010	256
161	219	0001010	256
162	220	0001010	256
163	221	0001010	256
164	222	0001010	256
165	223	0001010	256
166	224	0001010	256
167	225	0001010	256
168	226	0001010	256
169	227	0001010	256
170	228	0001010	256
171	229	0001010	256
172	230	0001010	256
173	231	0001010	256
174	232	0001010	256
175	233	0001010	256
176	234	0001010	256
177	235	0001010	256
178	236	0001010	256
179	237	0001010	256
180	238	0001010	256
181	239	0001010	256
182	240	0001010	256
183	241	0001010	256
184	242	0001010	256
185	243	0001010	256
186	244	0001010	256
187	245	0001010	256
188	246	0001010	256
189	247	0001010	256
190	248	0001010	256
191	249	0001010	256
192	250	0001010	256
193	251	0001010	256
194	252	0001010	256
195	253	0001010	256
196	254	0001010	256
197	255	0001010	256
198	256	0001010	256
199	257	0001010	256
200	258	0001010	256
201	259	0001010	256
202	260	0001010	256
203	261	0001010	256
204	262	0001010	256
205	263	0001010	256
206	264	0001010	256
207	265	0001010	256
208	266	0001010	256
209	267	0001010	256
210	268	0001010	256
211	269	0001010	256
212	270	0001010	256
213	271	0001010	256
214	272	0001010	256
215	273	0001010	256
216	274	0001010	256
217	275	0001010	256
218	276	0001010	256
219	277	0001010	256
220	278	0001010	256
221	279	0001010	256
222	280	0001010	256
223	281	0001010	256
224	282	0001010	256
225	283	0001010	256
226	284	0001010	256
227	285	0001010	256
228	286	0001010	256
229	287	0001010	256
230	288	0001010	256
231	289	0001010	256
232	290	0001010	256
233	291	0001010	256
234	292	0001010	256
235	293	0001010	256
236	294	0001010	256
237	295	0001010	256
238	296	0001010	256
239	297	0001010	256
240	298	0001010	256
241	299	0001010	256
242	300	0001010	256
243	301	0001010	256
244	302	0001010	256
245	303	0001010	256
246	304	0001010	256
247	305	0001010	256
248	306	0001010	256
249	307	0001010	256
250	308	0001010	256
251	309	0001010	256
252	310	0001010	256
253	311	0001010	256
254	312	0001010	256
255	313	0001010	256
256	314	0001010	256
257	315	0001010	256
258	316	0001010	256
259	317	0001010	256
260	318	0001010	256
261	319	0001010	256
262	320	0001010	256
263	321	0001010	256
264	322	0001010	256
265	323	0001010	256
266	324	0001010	256
267	325	0001010	256
268	326	0001010	256
269	327	0001010	256
270	328	0001010	256
271	329	0001010	256
272	330	0001010	256
273	331	0001010	256
274	332	0001010	256
275	333	0001010	256
276	334	0001010	256
277	335	0001010	256
278	336	0001010	256
279	337	0001010	256
280	338	0001010	256
281	339	0001010	256
282	340	0001010	256
283	341	0001010	256
284	342	0001010	256
285	343	0001010	256
286	344	0001010	256
287	345	0001010	256
288	346	0001010	256
289	347	0001010	256
290	348	0001010	256
291	349	0001010	256
292	350	0001010	256
293	351	0001010	256
294	352	0001010	256
295	353	0001010	256
296	354	0001010	256
297	355	0001010	256
298	356	0001010	256
299	357	0001010	256
300	358	0001010	256
301	359	0001010	256
302	360	0001010	256
303	361	0001010	256
304	362	0001010	256
305	363	0001010	256
306	364	0001010	256
307	365	0001010	256
308	366	0001010	256
309	367	0001010	256
310	368	0001010	256
311	369	0001010	256
312	370	0001010	256
313	371	0001010	256
314	372	0001010	256
315	373	0001010	256
316	374	0001010	256
317	375	0001010	256
318	376	0001010	256
319	377	0001010	256
320	378	0001010	256
321	379	0001010	256
322	380	0001010	256
323	381	0001010	256
324	382	0001010	256
325	383	0001010	256
326	384	0001010	256
327	385	0001010	256
328	386	0001010	25

DEC PART NUMB 23-40581
ORIGINATOR JOHN BLOEM
DATE OF ORIGIN 12-14-75

ROM PATTERN SPEC

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
148	154	01101111	187
149	155	01101111	187
150	156	11001110	316
151	157	01101111	187
152	162	01101011	153
153	161	01101011	153
154	162	00001000	010
155	163	00001000	010
156	164	00001000	010
157	164	00001000	010
158	167	00001000	010
159	167	00001000	010
160	170	01101011	153
161	171	01101011	153
162	172	00001000	010
163	173	00001000	010
164	174	00001000	010
165	175	00001000	010
166	176	00001000	010
167	177	00101011	052
168	200	01101010	186
169	201	00001000	010
170	202	00101011	052
171	203	00001000	010
172	204	00101011	052
173	205	01101011	153
174	206	00101011	052
175	207	00101011	052
176	210	00101011	052
177	211	01101011	153
178	212	00101011	052
179	213	00101011	052
180	214	00001000	010
181	215	01101011	153
182	216	00001000	010
183	217	01101011	153

DEC PART NUMB 23-40581
ORIGINATOR JOHN BLOEM
DATE OF ORIGIN 12-14-75

ROM PATTERN SPEC

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
184	220	01101111	187
185	221	11001110	316
186	222	00101011	052
187	223	11001110	316
188	224	00001000	010
189	225	00001000	010
190	226	00001000	010
191	227	00001000	010
192	230	01101111	187
193	231	11001110	316
194	232	00001000	010
195	233	11001110	316
196	236	01101111	187
197	235	00001110	010
198	236	00001110	010
199	237	00000010	002
200	240	10101110	056
201	241	00101011	052
202	242	00001000	010
203	243	01101011	153
204	244	00001000	010
205	245	01101011	153
206	246	00001000	010
207	247	00101011	052
208	250	00101011	052
209	251	00001000	010
210	252	10001000	210
211	253	01101111	187
212	254	00101110	056
213	255	00101110	056
214	256	00001000	010
215	257	01101011	153
216	260	01101011	153
217	261	01101011	153
218	262	00001000	010
219	263	00001000	010

EXM PATTERN SPEC ~~127~~ 127

DOC PART NUMB: 23-20561
 ORIGINATOR: JOHN BLOEM
 DATE OF ORIGIN: 12-MAY-75

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
180	264	00001000	010
181	265	00001000	010
182	266	00001000	010
183	267	00001000	010
184	270	01101011	153
185	271	01101011	153
186	272	00001000	010
187	273	00001000	010
188	274	00001000	010
189	275	00001000	010
190	276	00001000	010
191	277	00001000	010
192	300	00001000	010
193	301	00001000	010
194	302	01101011	153
195	303	00101110	056
196	304	00101110	056
197	305	00001000	010
198	306	01101011	153
199	307	00001000	010
200	310	01101011	153
201	311	00001000	010
202	312	11101111	357
203	313	01101111	157
204	314	00101110	056
205	315	00101110	056
206	316	00001000	010
207	317	00001000	010
208	320	00002010	022
209	321	00002010	022
210	322	11001110	156
211	323	00002010	022
212	324	01101110	156
213	325	00001010	022
214	326	00101011	053
215	327	01101011	153

EXM PATTERN SPEC ~~128~~ 128

DOC PART NUMB: 23-20561
 ORIGINATOR: JOHN BLOEM
 DATE OF ORIGIN: 12-MAY-75

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
216	330	01101111	157
217	331	01001110	116
218	332	00101011	053
219	333	01001110	116
220	334	01101110	156
221	335	01101011	153
222	336	00101011	053
223	337	00001010	012
224	340	01101111	157
225	341	00001010	012
226	342	00101110	056
227	343	00001010	012
228	344	01101111	157
229	345	01101111	157
230	346	11001110	316
231	347	01101111	157
232	350	00001000	010
233	351	00001010	012
234	352	01101111	157
235	353	00001010	012
236	354	01101111	157
237	355	11001110	316
238	356	01101111	157
239	357	00001000	010
240	360	01101011	153
241	361	01101011	153
242	362	00001000	010
243	363	00001000	010
244	364	00001000	010
245	365	00001000	010
246	366	00001000	010
247	367	11001110	316
248	370	00002010	022
249	371	00002010	022
250	372	00001111	017
251	373	00001111	017

DEC PART NUMB: 23-22841
 ORIGINATOR: JOHN BLOOM
 DATE OF ORIGIN: 13-MAY-78

KOM PATTERN SPEC

129

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
282	374	00101011	093
283	375	10001010	012
284	376	01101011	163
285	377	00001010	000

DEC PART NUMB: 23-22841
 ORIGINATOR: JOHN BLOOM
 DATE OF ORIGIN: 18-DEC-74

KOM PATTERN SPEC

130

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
0	000	00111111	077
1	001	00111111	077
2	002	00110111	067
3	003	00110111	067
4	004	01011111	087
5	005	00101111	087
6	006	01001111	047
7	007	00100111	007
8	010	00111111	077
9	011	00111111	077
10	012	00110111	067
11	013	00110111	067
12	014	00101111	057
13	015	00101111	057
14	016	00100111	047
15	017	00100111	047
16	020	00011111	037
17	021	00011111	037
18	022	00010111	027
19	023	00010111	027
20	024	00011111	017
21	025	00001111	017
22	026	00001111	007
23	027	00000111	007
24	030	00011111	037
25	031	00011111	037
26	032	00010111	027
27	033	00010111	027
28	034	00001111	017
29	035	00001111	017
30	036	00000111	007
31	037	00000111	007
32	040	10111121	275
33	041	10111100	274
34	042	10110101	265
35	043	10110100	264

268

ROM PATTERN SPEC

DPC PART NUMBER 23-00681
ORIGINATOR JOHN BLOEN
DATE OF ORIGIN 16-DEC-74

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
36	044	1011101	273
37	045	1011100	276
38	046	10110101	263
39	047	10110100	266
40	050	1011101	273
41	051	1011101	276
42	052	10110101	263
43	053	10110101	266
44	054	1011101	273
45	055	1011101	276
46	056	10110101	263
47	057	10110101	266
48	060	1011101	273
49	061	1011100	274
50	062	10110101	265
51	063	10110100	264
52	064	1011101	273
53	065	1011100	274
54	066	10110101	265
55	067	10110100	264
56	070	1011101	273
57	071	1011101	276
58	072	10110101	263
59	073	10110101	266
60	074	1011101	273
61	075	1011101	276
62	076	10110101	263
63	077	10110101	266
64	107	1011011	273
65	101	1011100	270
66	102	10110011	263
67	103	10110100	264
69	104	1011011	273
69	105	1011100	274
70	106	1011011	263
71	107	10110100	264

ROM PATTERN SPEC

DPC PART NUMBER 23-00681
ORIGINATOR JOHN BLOEN
DATE OF ORIGIN 16-DEC-74

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
72	110	10111011	273
73	111	1011101	276
74	112	10110011	263
75	113	10110101	266
76	114	10111011	273
77	115	1011101	276
78	116	10110011	263
79	117	10110101	266
80	120	1011011	273
81	121	1011100	274
82	122	10110011	263
83	123	10110100	264
84	124	1011011	273
85	125	1011100	274
86	126	10110011	263
87	127	10110100	264
89	130	1011011	273
89	131	1011101	276
90	132	10110011	263
91	133	10110101	266
92	134	1011011	273
93	135	1011101	276
94	136	10110011	263
95	137	10110101	266
96	140	1011001	271
97	141	1011000	274
98	142	10110011	261
99	143	10110100	264
100	144	1011001	271
101	145	1011100	274
102	146	10110011	261
103	147	10110100	264
104	150	1011001	271
105	151	1011101	276
106	152	10110011	261
107	153	10110101	266

133

DEC. PART NUMB1 23-80601
ORIGINATOR JOHN BLOCH
DATE OF ORIGIN 16-DEC-74

ROM PATTERN SPEC

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
129	154	10111001	271
129	155	10111101	275
130	156	10111001	261
131	157	10111011	265
132	160	10111001	271
133	161	10111100	274
134	162	10110001	261
135	163	10111100	264
136	164	10111001	271
137	165	10111100	274
138	166	10110001	261
139	167	10111100	264
129	170	10111001	271
121	171	10111101	275
122	172	10110001	261
123	173	10111010	265
124	174	10111001	271
125	175	10111101	275
126	176	10110001	261
127	177	10111010	265
128	200	10111111	277
129	201	10111100	274
130	202	10111111	277
131	203	10110100	264
132	204	10111111	277
133	205	10111100	274
134	206	10110111	267
135	207	10111100	264
136	210	10111111	277
137	211	10111101	275
138	212	10111111	277
139	213	10111010	265
140	214	10111111	277
141	215	10111101	275
142	216	10110111	267
143	217	10110101	265

134

DEC. PART NUMB1 23-80601
ORIGINATOR JOHN BLOCH
DATE OF ORIGIN 16-DEC-74

ROM PATTERN SPEC

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
144	220	10111111	277
145	221	10111100	274
146	222	10110111	267
147	223	10110100	264
149	224	10111111	277
149	225	10111100	274
150	226	10110111	267
151	227	10110100	264
152	230	10111111	277
153	231	10111101	275
154	232	10110111	267
155	233	10110101	265
156	234	10111111	277
157	235	10111101	275
158	236	10110111	267
159	237	10110101	265
160	240	10111100	274
161	241	10111100	274
162	242	10110100	264
163	243	10110100	264
164	244	10111100	274
165	245	10111100	274
166	246	10110100	264
167	247	10110100	264
168	250	10111100	274
169	251	10111101	275
170	252	10110100	264
171	253	10110101	265
172	254	10111100	274
173	255	10111101	275
174	256	10110100	264
175	257	10110101	265
176	260	10111100	274
177	261	10111100	274
178	262	10110100	264
179	263	10110100	264

271

135

ROM PATTERN SPEC

DEC PART NUMBR 23-20581
ORIGINATOR JOHN RUEHM
DATE OF ORIGIN 16-DEC-74

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
180	264	10111100	274
181	265	10111100	274
182	265	10110100	264
183	267	10110100	264
184	270	10111100	274
185	271	10111101	275
186	272	10110100	264
187	273	10110101	265
188	274	10111100	274
189	275	10111101	275
190	276	10110100	264
191	277	10110101	265
192	300	10110100	272
193	301	10110100	272
194	302	10110100	262
195	303	10110100	264
196	304	10110100	272
197	305	10111100	274
198	306	10110100	262
199	307	10110100	264
200	310	10110100	272
201	311	10111101	275
202	312	10110100	262
203	313	10110101	265
204	314	10110100	272
205	315	10111101	275
206	316	10110100	262
207	317	10110101	265
208	320	10110100	272
209	321	10111100	274
210	322	10110100	262
211	323	10110100	264
212	324	10110100	272
213	325	10111100	274
214	326	10110100	262
215	327	10110100	264

136

ROM PATTERN SPEC

DEC PART NUMBR 23-20581
ORIGINATOR JOHN RUEHM
DATE OF ORIGIN 16-DEC-74

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
216	330	10110100	272
217	331	10111101	275
218	332	10110100	262
219	333	10110101	265
220	334	10110100	272
221	335	10111101	275
222	336	10110100	262
223	337	10110101	265
224	340	01111111	177
225	341	11111100	374
226	342	11110101	365
227	343	11110100	364
228	344	11110100	354
229	345	11111100	374
230	346	11110101	365
231	347	11110100	364
232	350	01111111	177
233	351	11111101	375
234	352	11110101	365
235	353	11110101	365
236	354	11101100	354
237	355	11111101	375
238	356	11110101	365
239	357	11110101	365
240	360	11011100	336
241	361	11111100	374
242	362	11110101	365
243	363	11110100	364
244	364	11110100	354
245	365	11111100	374
246	366	11110101	365
247	367	11110100	364
248	370	11011100	336
249	371	11111101	375
250	372	11110101	365
251	373	11110101	365

ROM PATTERN SPEC.

D/C PART NUMB: 23-00781
OPERATOR: JOHN BLEDM
DATE OF ORIGIN: 16-DEC-74

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
252	374	11101100	354
253	375	11111101	378
254	376	11101101	388
255	377	11111101	363

ROM PATTERN SPEC

D/C PART NUMB: 23-00781
OPERATOR: JOHN BLEDM
DATE OF ORIGIN: 16-DEC-74

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
0	000	00100111	047
1	001	00100111	047
2	002	00100111	047
3	003	00100111	047
4	004	00000000	000
5	005	00000000	000
6	006	00000000	000
7	007	00000000	000
8	010	00000000	000
9	011	00000000	000
10	012	00000000	000
11	013	00000000	000
12	014	00000000	000
13	015	00000000	000
14	016	00000000	000
15	017	00000000	000
16	020	00100111	047
17	021	00111101	053
18	022	00100111	047
19	023	00111101	053
20	024	00000000	000
21	025	00000000	000
22	026	00000000	000
23	027	00000000	000
24	030	00000000	000
25	031	00000000	000
26	032	00000000	000
27	033	00000000	000
28	034	00000000	000
29	035	00000000	000
30	036	00000000	000
31	037	00000000	000
32	040	11111101	275
33	041	10111101	275
34	042	10111101	275
35	043	10111101	275

NON PATTERN SPEC ~~XXXXXXXXXXXX~~ 139

DEC PART NUMBER 23-00781
 ORIGINATOR JOHN BLEOM
 DATE OF ORIGIN 10-09-74

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
36	044	00000000	000
37	045	00000000	000
38	046	00000000	000
39	047	00000000	000
40	050	00000000	000
41	051	00000000	000
42	052	00000000	000
43	053	00000000	000
44	054	00000000	000
45	055	00000000	000
46	056	00000000	000
47	057	00000000	000
48	060	10111101	275
49	061	10111101	275
50	062	10111101	275
51	063	10111101	275
52	064	00000000	000
53	065	00000000	000
54	066	00000000	000
55	067	00000000	000
56	070	00000000	000
57	071	00000000	000
58	072	00000000	000
59	073	00000000	000
60	074	00000000	000
61	075	00000000	000
62	076	00000000	000
63	077	00000000	000
64	100	01100100	144
65	101	00100110	040
66	102	01100100	144
67	103	00100110	040
68	104	00000000	000
69	105	00000000	000
70	106	00000000	000
71	107	00000000	000

NON PATTERN SPEC ~~XXXXXXXXXXXX~~ 140

DEC PART NUMBER 23-00781
 ORIGINATOR JOHN BLEOM
 DATE OF ORIGIN 10-09-74

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
72	110	00000000	000
73	111	00000000	000
74	112	00000000	000
75	113	00000000	000
76	114	00000000	000
77	115	00000000	000
78	116	00000000	000
79	117	00000000	000
80	120	01001111	117
81	121	00100001	041
82	122	01001111	117
83	123	00100001	041
84	124	00000000	000
85	125	00000000	000
86	126	00000000	000
87	127	00000000	000
88	130	00000000	000
89	131	00000000	000
90	132	00000000	000
91	133	00000000	000
92	134	00000000	000
93	135	00000000	000
94	136	00000000	000
95	137	00000000	000
96	140	00100111	047
97	141	00100111	047
98	142	00100111	047
99	143	00100111	047
100	144	00000000	000
101	145	00000000	000
102	146	00000000	000
103	147	00000000	000
104	150	00000000	000
105	151	00000000	000
106	152	00000000	000
107	153	00000000	000

DEC PART NUMBER 23-03781
 ORIGINATOR JOHN RUECK
 DATE OF ORIGIN 10-09-74

ROW PATTERN SPEC

~~XXXXXXXXXX~~ 141

DECIMAL LOC	OCTAL LOC	PRIMARY DATA	OCTAL DATA
128	154	00020000	000
129	155	00020000	000
130	156	00020000	000
131	157	00020000	000
132	160	00100111	047
133	161	00100111	047
134	162	00100111	047
135	163	00100111	047
136	164	00020000	000
137	165	00020000	000
138	166	00020000	000
139	167	00020000	000
140	170	00000000	000
141	171	00000000	000
142	172	00000000	000
143	173	00020000	000
144	174	00020000	000
145	175	00020000	000
146	176	00000000	000
147	177	00020000	000
148	200	00100111	047
149	201	00100111	047
150	202	00100111	047
151	203	00100111	047
152	204	00000000	000
153	205	00000000	000
154	206	00000000	000
155	207	00000000	000
156	210	00000000	000
157	211	00000000	000
158	212	00000000	000
159	213	00000000	000
160	214	00000000	000
161	215	00000000	000
162	216	00000000	000
163	217	00000000	000

DEC PART NUMBER 23-03781
 ORIGINATOR JOHN RUECK
 DATE OF ORIGIN 10-09-74

ROW PATTERN SPEC

~~XXXXXXXXXX~~ 142

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
164	220	00100111	047
165	221	00100111	047
166	222	00100111	047
167	223	00100111	047
168	224	00000000	000
169	225	00000000	000
170	226	00000000	000
171	227	00000000	000
172	230	00020000	000
173	231	00020000	000
174	232	00020000	000
175	233	00020000	000
176	234	00000000	000
177	235	00000000	000
178	236	00000000	000
179	237	00020000	000
180	240	00100111	047
181	241	00100111	047
182	242	00100111	047
183	243	00100111	047
184	244	00020000	000
185	245	00000000	000
186	246	00000000	000
187	247	00000000	000
188	250	00020000	000
189	251	00020000	000
190	252	00020000	000
191	253	00020000	000
192	254	00000000	000
193	255	00000000	000
194	256	00000000	000
195	257	00020000	000
196	260	00100111	047
197	261	00100111	047
198	262	00100111	047
199	263	00100111	047

ROM PATTERN SPFC

DEC PART NUMB: 23-00761
ORIGINATOR: JOHN PLEDM
DATE OF ORIGIN: 10-09-74

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
184	264	00000000	000
181	265	00000000	000
182	266	00000000	000
183	267	00000000	000
184	270	00000000	000
185	271	00000000	000
186	272	00000000	000
187	273	00000000	000
188	274	00000000	000
189	275	00000000	000
190	276	00000000	000
191	277	00000000	000
192	300	11000100	104
193	301	00100000	040
194	302	11000100	104
195	303	00100001	041
196	304	00000000	000
197	305	00000000	000
198	306	00000000	000
199	307	00000000	000
200	310	00000000	000
201	311	00000000	000
202	312	00000000	000
203	313	00000000	000
204	314	00000000	000
205	315	00000000	000
206	316	00000000	000
207	317	00000000	000
208	320	00100111	047
209	321	10101101	255
210	322	00100110	046
211	323	10101101	255
212	324	00000000	000
213	325	00000000	000
214	326	00000000	000
215	327	00000000	000

ROM PATTERN SPFC

DEC PART NUMB: 23-00761
ORIGINATOR: JOHN PLEDM
DATE OF ORIGIN: 10-09-74

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
216	330	00000000	000
217	331	00000000	000
218	332	00000000	000
219	333	00000000	000
220	334	00000000	000
221	335	00000000	000
222	336	00000000	000
223	337	00000000	000
224	340	00100111	047
225	341	00100111	047
226	342	00100111	047
227	343	00100111	047
228	344	00000000	000
229	345	00000000	000
230	346	00000000	000
231	347	00000000	000
232	350	00000000	000
233	351	00000000	000
234	352	00000000	000
235	353	00000000	000
236	354	00000000	000
237	355	00000000	000
238	356	00000000	000
239	357	00000000	000
240	360	00100111	047
241	361	00100111	047
242	362	00100111	047
243	363	00100111	047
244	364	00000000	000
245	365	00000000	000
246	366	00000000	000
247	367	00000000	000
248	370	00000000	000
249	371	00000000	000
250	372	00000000	000
251	373	00000000	000

DEC PART NUMB: 23-20781
ORIGINATOR: JOHN BLEOM
DATE OF ORIGIN: 12-29-74

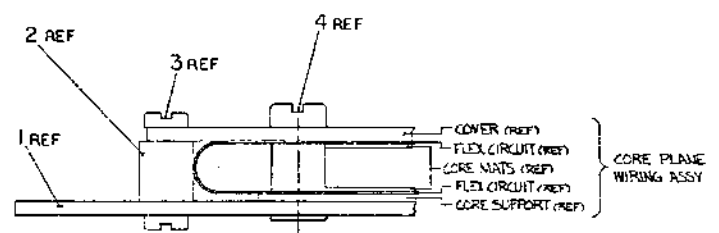
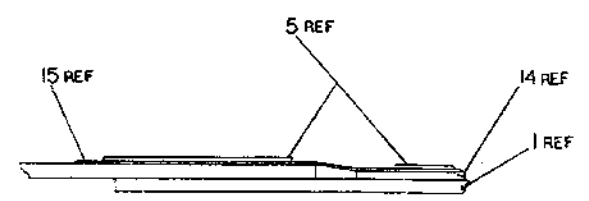
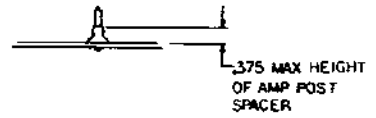
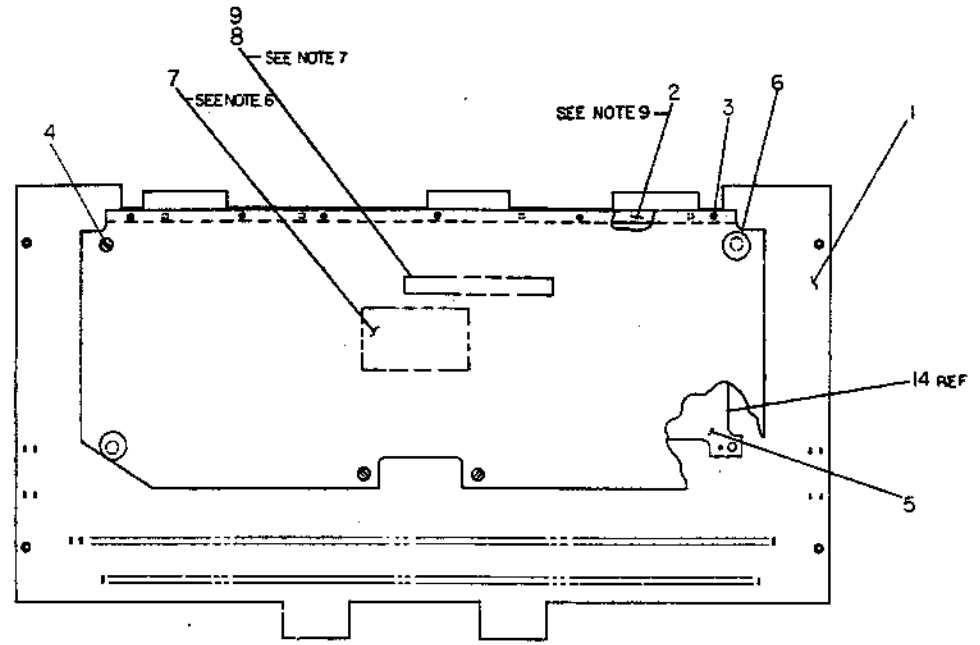
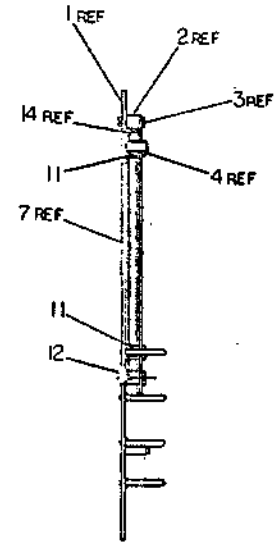
ROM PATTERN SPEC

~~PAGE 145~~ 145

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
252	374	00000000	000
253	375	00000000	000
254	376	00000000	000
255	377	00000000	000

Pages 278-303 Missing From Original Document

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NOTES:

1. BOND CORE PLANE ASSY (ITEM NO. 5) TO THE STACK BD. (ITEM NO. 1) WITH ADHESIVE (ITEM NO. 10).
2. INSTALL THREADED CAMBION SPACERS (ITEM NOS. 11 AND 12) THRU STACK BOARD (ITEM NO. 1) AND CLUNCH IN PLACE.
3. USE PROTECTIVE COATING (ITEM NO. 13) TO COAT ALL MAGNETIC WIRE TERMINATIONS AFTER ELECTRICAL TEST. REF DWG. E2A-1013707-0-0
4. CLOSE COVER (PARTS OF ITEM NO. 5) AND SECURE STIFFENER SPACER (ITEM NO. 2) TO STACK BOARD (ITEM NO. 1) WITH FOUR #2-56 SCREWS (ITEM NO. 3.)
5. SECURE COVER TO STIFFENER SPACER (ITEM NO. 2) WITH SIX #2-56 SCREWS (ITEM NO. 3) AND TO CAMBION SPACERS (ITEM NO. 11 & 12) WITH 6 #4-40 SCREWS (ITEM NO. 4.)
6. APPLY NAME PLATE (ITEM NO. 7) TO SIDE 2 OF STACK BOARD (ITEM NO. 1) APPROXIMATELY WHERE SHOWN.
7. LABEL STACK BOARD (ITEM NO. 1) ON SIDE 2 WITH THE DEC PART NUMBER, SEQUENTIAL SERIAL NUMBER, C/S REVISION USING INK (ITEM NO. 9) AND EPOXY (ITEM NO. 8) EXAMPLE H228-B-001.
8. PLACE WARRANTY SEALS (ITEM NO. 6) OVER SCREW HEADS AS SHOWN.
9. STIFFENER SPACER (ITEM NO. 2) ORIENTATION MARK SHOULD BE PLACED ON THIS END.

ITEM NO.	DESCRIPTION	QTY
1	STACK BOARD (REF)	1
2	STIFFENER SPACER (REF)	1
3	#2-56 SCREWS (REF)	10
4	#4-40 SCREWS (REF)	6
5	CORE PLANE WIRING ASSY (REF)	1
6	WARRANTY SEAL (REF)	4
7	NAME PLATE (REF)	1
8	EPOXY (REF)	1
9	INK (REF)	1
10	ADHESIVE (REF)	1
11	CAMBION SPACER (REF)	2
12	CAMBION SPACER (REF)	2
13	PROTECTIVE COATING (REF)	1
14	COVER (REF)	1
15	AMP POST SPACER (REF)	1

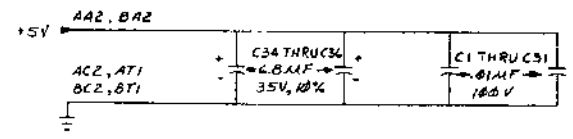
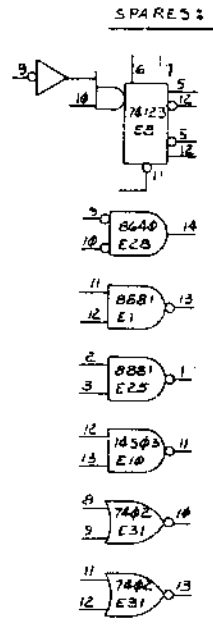
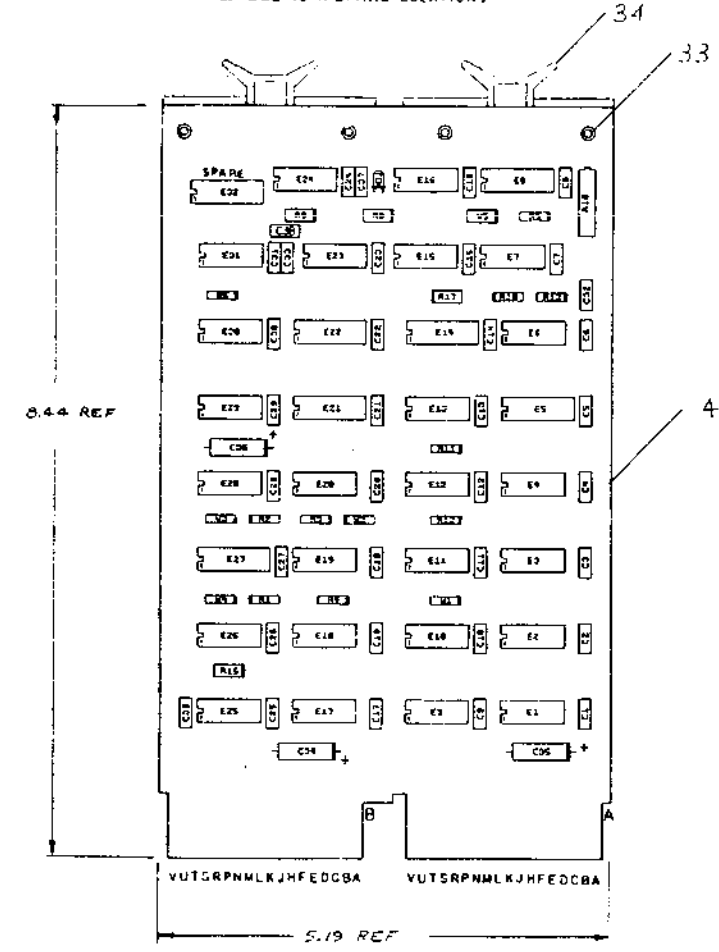
QUANTITY & VARIATION	DATE	BY	APPROVED
1	10/1/55	MMH:YD	MMH:YD
TITLE		H228-B	
SUBTITLE		CORE MEMORY	
PARTS LIST		STACK ASSEMBLY	
DRAWN		DATE	
CHECKED		DATE	
APPROVED		DATE	

8 7 6 5 4 3 2 1

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 DATE: 12/3/75

NOTES:

1. ALL RESISTORS 1/4 W, 5% UNLESS OTHERWISE NOTED. ALL CAPACITORS ARE 100V, 20% UNLESS OTHERWISE NOTED.
2. JUMPER CONTROL OPERATIONS AS FOLLOWS: WI THRU W4 SELECT CSR ADDRESS, WS CAPACITOR FOR S SYN DLY, NOT USED.
3. E32 IS A SPARE LOCATION.



REF	CIRCUIT SCHEMATIC	D CS M7850-01	REF	
REF	X-Y COORDINATE HOLE LOCATION	K-10-M7850-0-4	1	
REF	ASSY/DRILLING HOLE LAYOUT	D-AM M7850-0-5	2	
REF	MODULE ECO HISTORY	B-MH-M7850-0-6	3	
1	ETCHED CIRCUIT BOARD	5010651-00	4	
1	C39	CAP 470 PF, 100V, 5% (DM)	1000024-00	5
2	C33, C37	CAP 330 PF, 100V, 5% (DM)	1000023-00	6
3E	C1 THRU C32	CAP 0.1µF, 100V, 20% DISC	1001610-01	7
3	C34, C35, C36	CAP 6.0µF, 35V, 10% STANT	1005306-00	8
1	D1	DIODE, LED	1110324-00	9
5	R1 THRU R5	RES 4.7K 1/4W 5%	1300647-00	10
3	R8, R9, R15	RES 100 1/4W 5%	1300229-00	11
5	R6, R10, R11, R12, R17	RES 470 1/4W 5%	1300316-00	12
1	R13	RES 1K 1/4W 5%	1300365-00	13
1	R16	RES 10A 3/4W 20% (WPLRM)	1300143-0	14
1	E24	I.C. 7400	1905575-00	15
1	E30	I.C. 7430	1905578-00	16
1	E31	I.C. 7402	1903004-00	17
1	E19	I.C. 314A	1909704-00	18
1	E23	I.C. 7408	1910155-00	19
4	E1, E9, E17, E25	I.C. 8881	1909705-00	20
1	E16	I.C. 74H04	1909931-00	21
1	E27	I.C. 7485	1910226-00	22
1	E8	I.C. 74123	1910836-00	23
1	E10	I.C. 74503	1910533-00	24
1	E15	I.C. 74574	1910544-00	25
1	E21	I.C. 74174	1910652-00	26
2	E5, E22	I.C. 74157	1910655-00	27
9	E2, E3, E11, E12, E18 E20, E26, E28, E29	I.C. 8640	1911469-00	28
2	E4, E13	I.C. 74S280	1911573-00	29
1	E14	I.C. 8266	1909934-00	30
2	E6, E7	I.C. 7474	1905547-00	31
4	WI THRU W4	INSULATED JUMPER	9009185-00	32
4		EYELET	9008732-00	33
2		HANDLE, FLIP-CHIP (MAGENTA)	9008337-6	34

IC TYPE	GND	+5V
8640	1	8
8266	8	16
74151	8	16
74174	8	16
74123	8	16
7485	8	16
314A	1	5

GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPT AS STATED ABOVE.

IC PIN LOCATIONS

PARITY MODULE

digital

W. LUFKIN DATE 2/5/75

REVISIONS:

REV	DATE	DESCRIPTION
1	2/5/75	INITIAL DESIGN
2	2/12/75	REVISED
3	2/19/75	REVISED
4	2/19/75	REVISED
5	2/19/75	REVISED

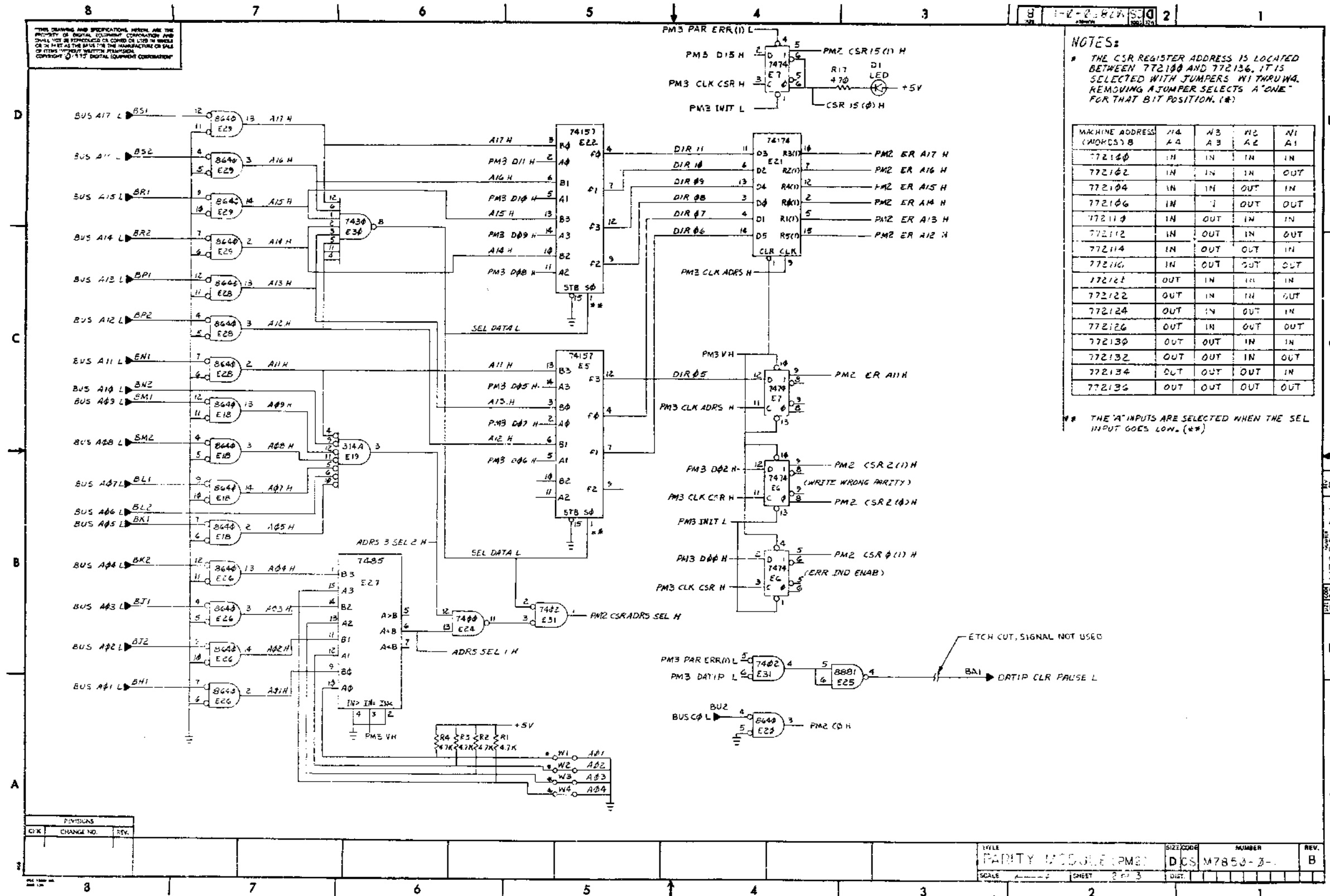
SIZE CODE NUMBER REV

DCS M7850-0-1 B

SEMICONDUCTOR CONVERSION CHART

SHEET 1 OF 3

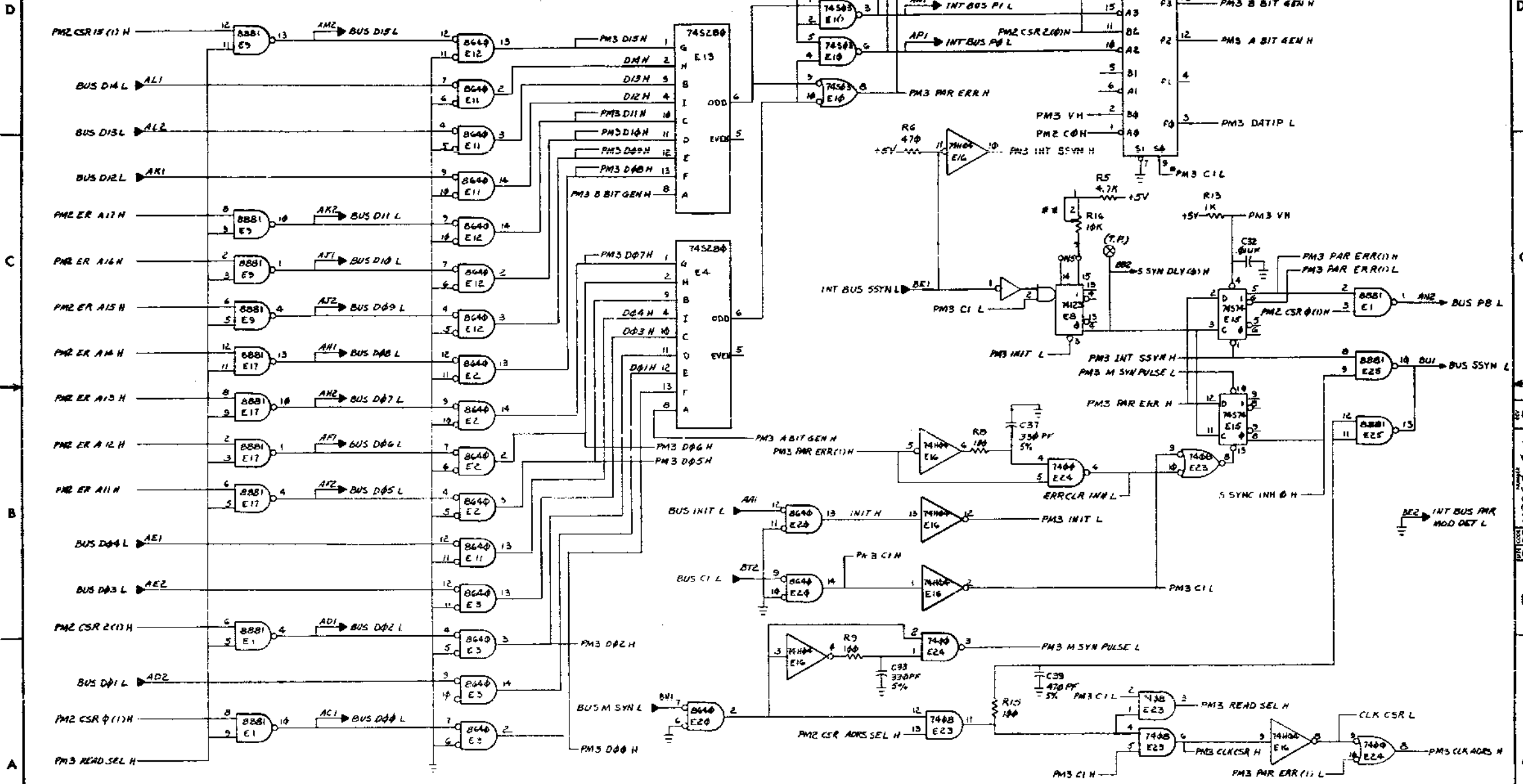
305



306

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NOTES:
 * B INPUTS SELECTED WHEN SEL IS LOW (*)
 ** SET R6 TO 110 NSEC. ± 10% FROM SIGNAL ON PIN BE1 GOING LOW TO SIGNAL ON PIN BE2 GOING HIGH. (0.5V LEVEL) (R6)



REV	DATE	BY

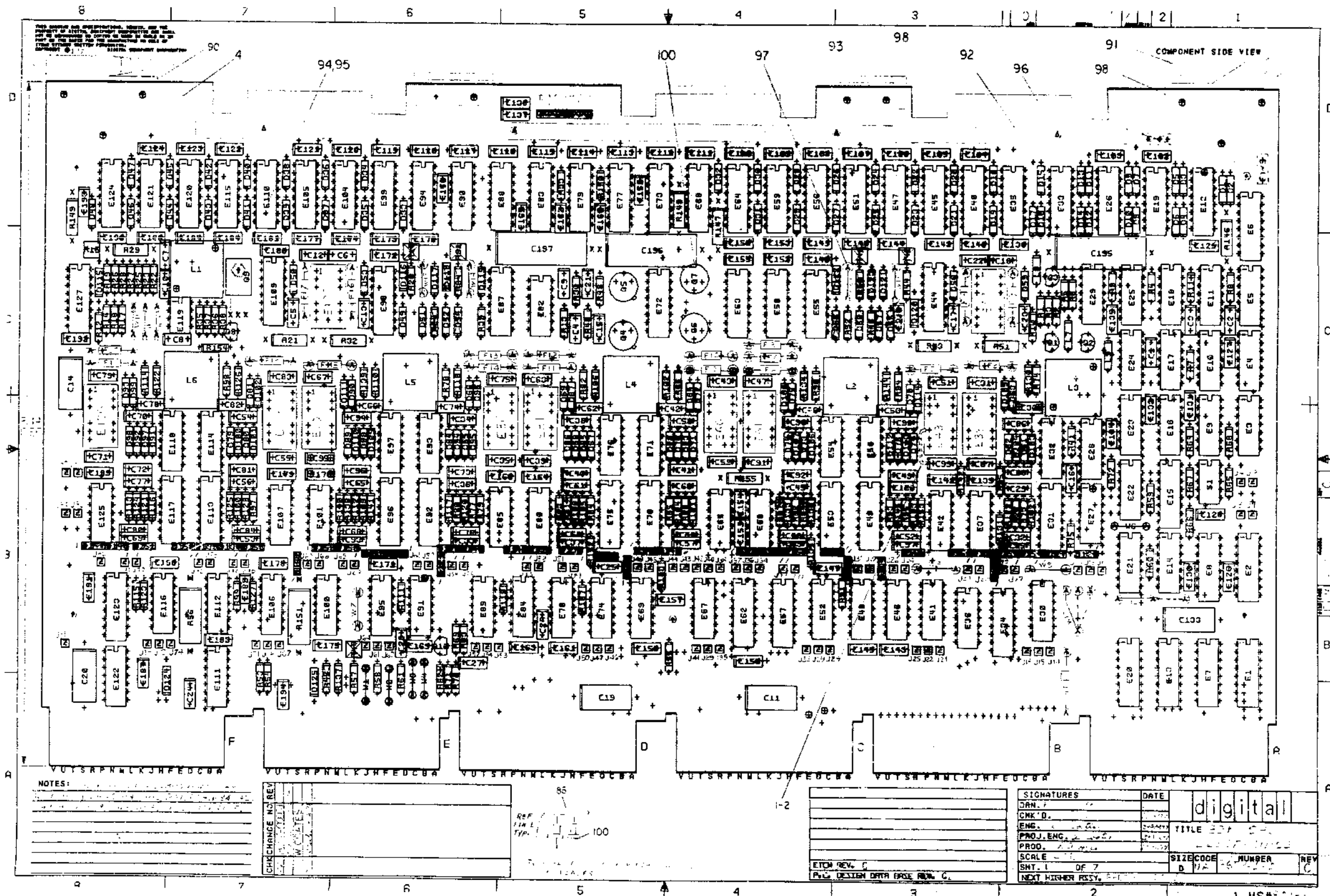
TITLE	SIZ: CODE	NUMBER	REV.
PARITY MODULE (PM3)	DCS M7850-0-1	B	
SCALE	SHEET 3 OF 3	DIST	

367

LINE ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
102	102	1305128-00	5.62 K 1/4W 1% RN55D-F 100PPM	(13-00) 1	R33
103	103	1300249-00	150 1/2W 5% CC	(13-00) 2	R147,R149
104	104	1300247-00	120 1/4W 5% CC	(13-00) 1	R39
105	105	1303170-00	620 1/4W 5% CC	(13-00) 1	R46
106	106	1110836-00	1N 759A VZ= 12.0 5% .40W P	1	D120
107	107	1001610-00	.01 MFD 50V 25U 309CER/8000PF MIN	110	C4,C7,C9,C10,C15,C21,C24,C25, CONT C27,C29,C32,C33,C36,C37,C40, CONT C41,C44,C45,C48,C49,C56,C57, CONT C60,C61,C64,C65,C68,C69,C72, CONT C73,C76,C77,C80,C81,C84,C85, CONT C88,C89,C92,C93,C96,C97,C100, CONT C52,C53,C126,C128,C130-C132, CONT C134,C135,C138-C166,C168-C192, CONT C194,C210,C127,C129
108	108	9105740-55	WIRE(WRAP)30AWG	UL1423 (91-00)	A/R

109 NOTE: 10-01610-01 CAN BE USED IN PLACE OF 10-01610-00

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE PARTS LIST 32K SPC ELECTRONICS	SIZE:CODE: K PL	DOCUMENT NUMBER G657-0-DBP	REV C
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NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.

2. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.

3. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.

4. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.

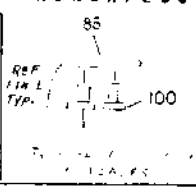
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6. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.

7. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.

8. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.

CHANGE NO.	REV.	DATE	BY	CHK'D.



1-2

100

85

SIGNATURES	DATE
DRN. I	
CHK'D.	
ENG.	
PROJ. ENG.	
PROD.	
SCALE	
SHT. 1 OF 7	
NEXT HIGHER ASSY.	

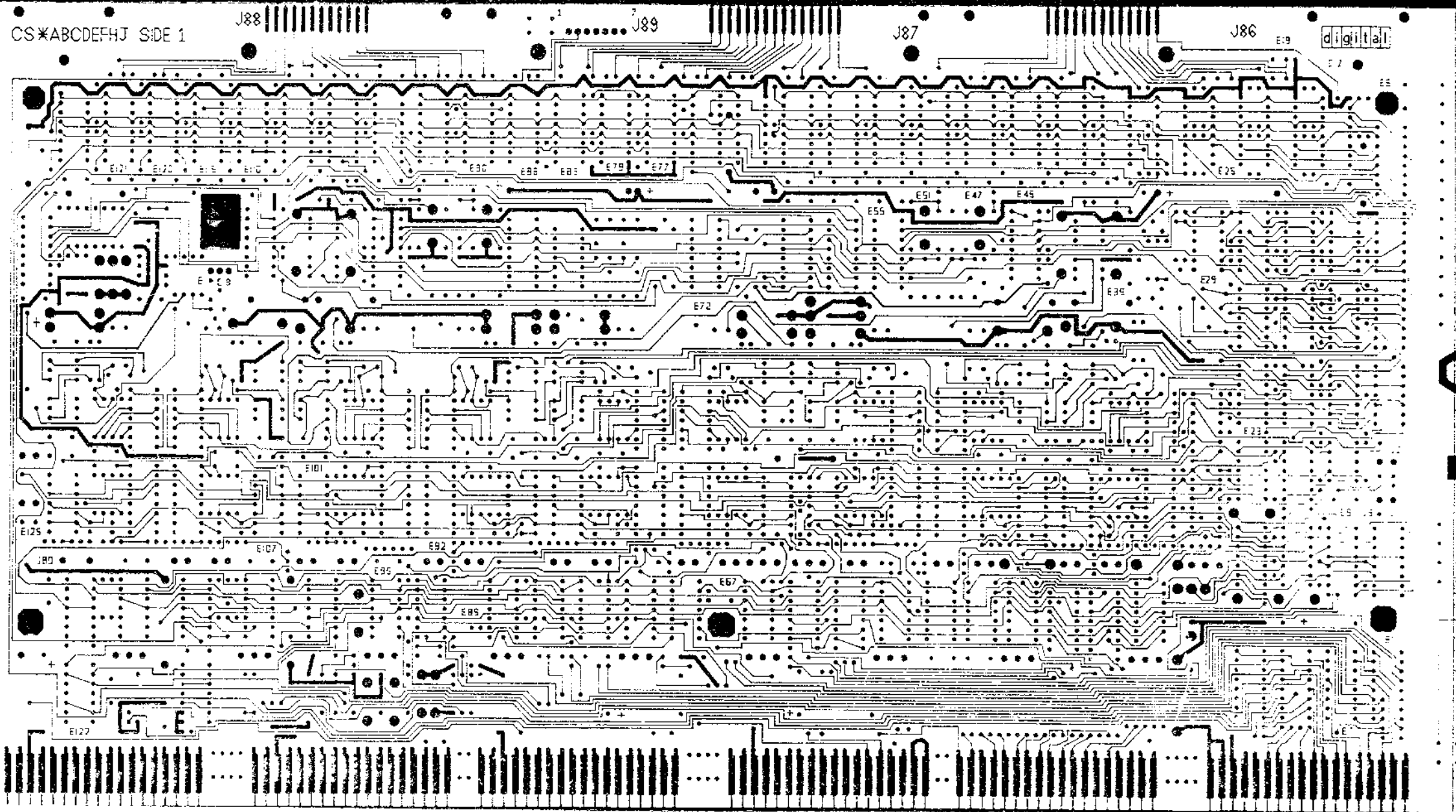
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digital				

315

LAYER 1

32K SPC ELECTRONICS 5012147C G657

CS*ABCDEFHJ SIDE 1

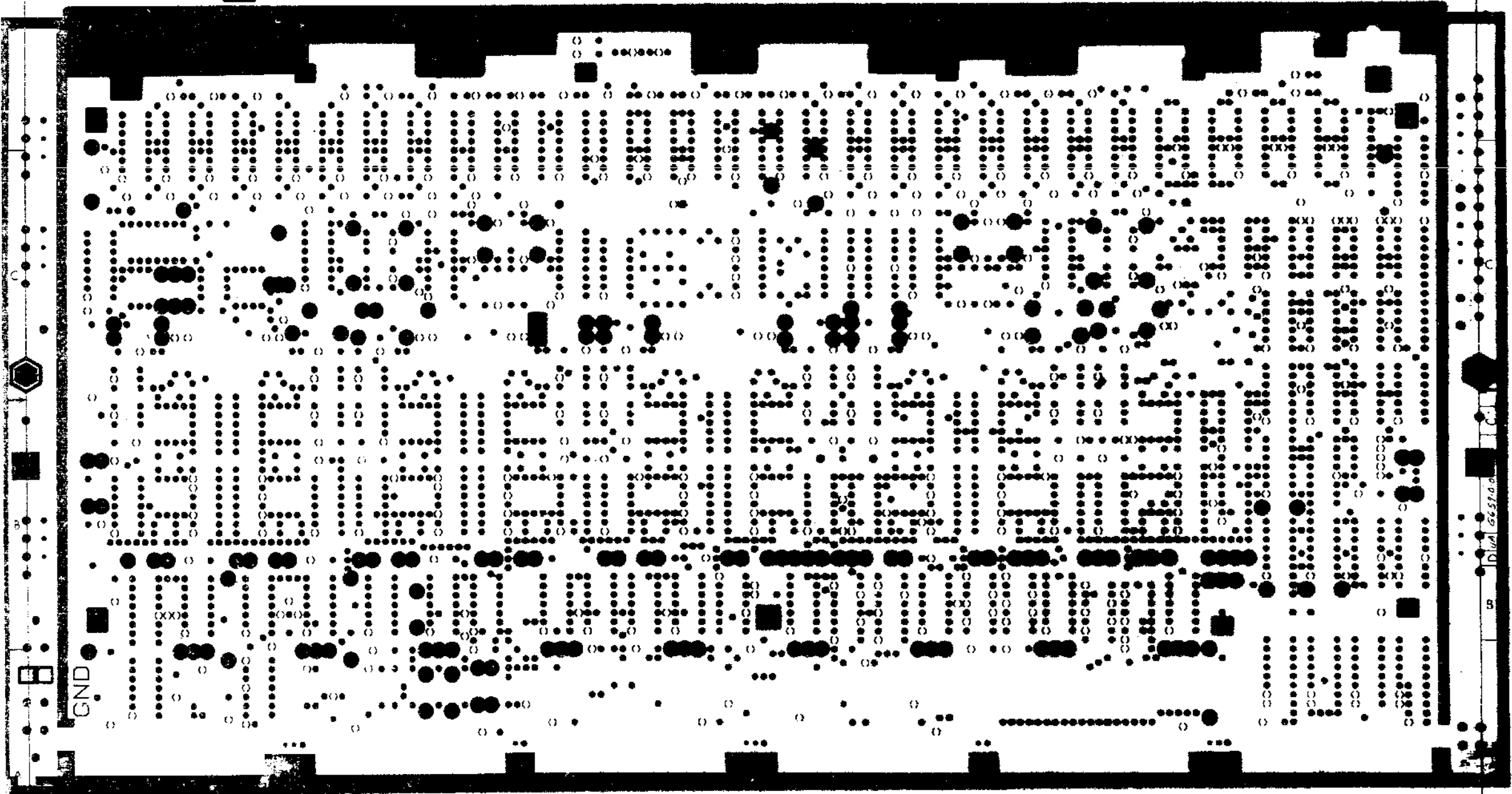


32K SPC
 ELECTRONICS
 5012147C G657

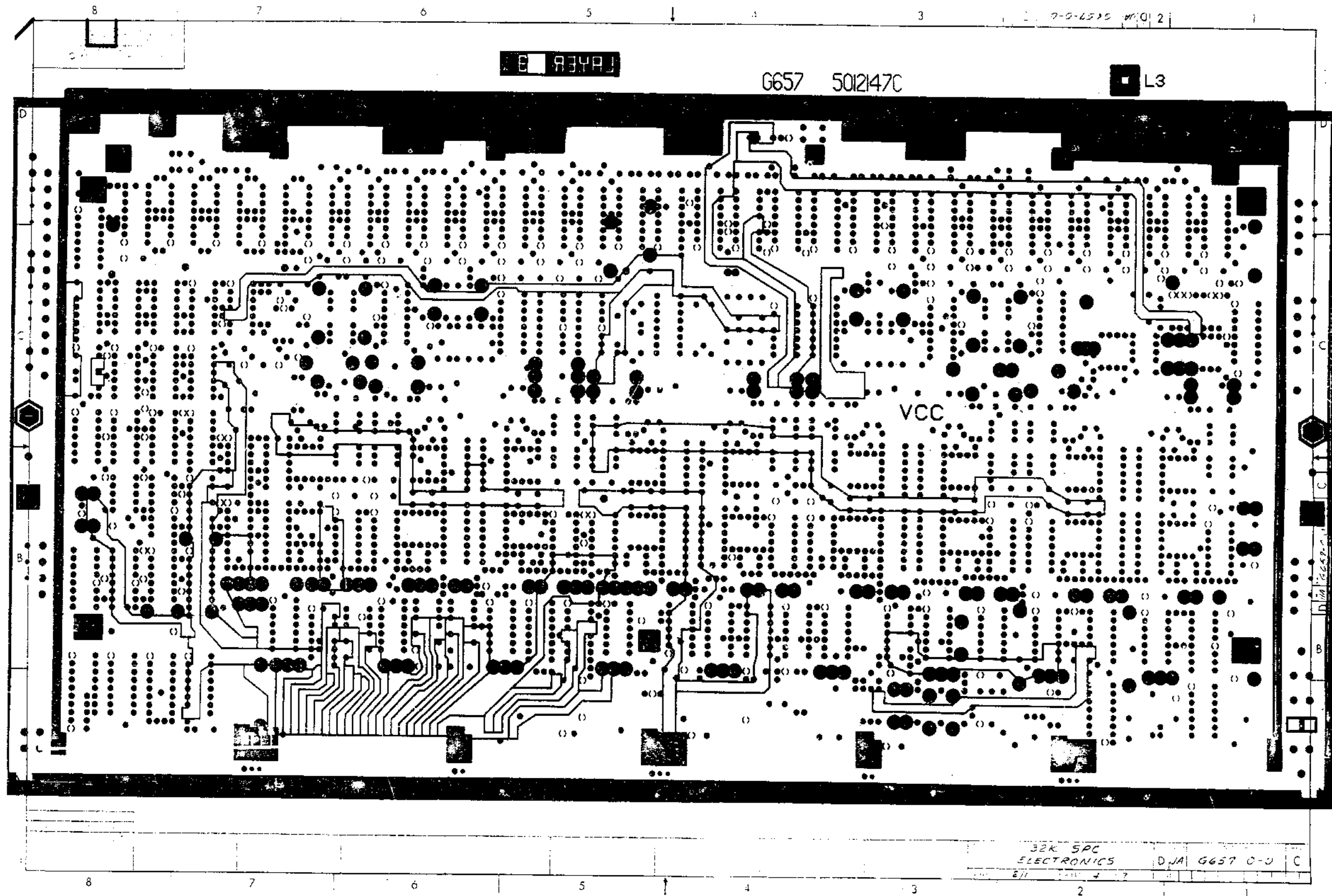
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LAYER 12

G657 5012147C



32R SPC
ELECTRONICS DIA G657-C-0



8 7 6 5 4 3 2 1

PARAJ

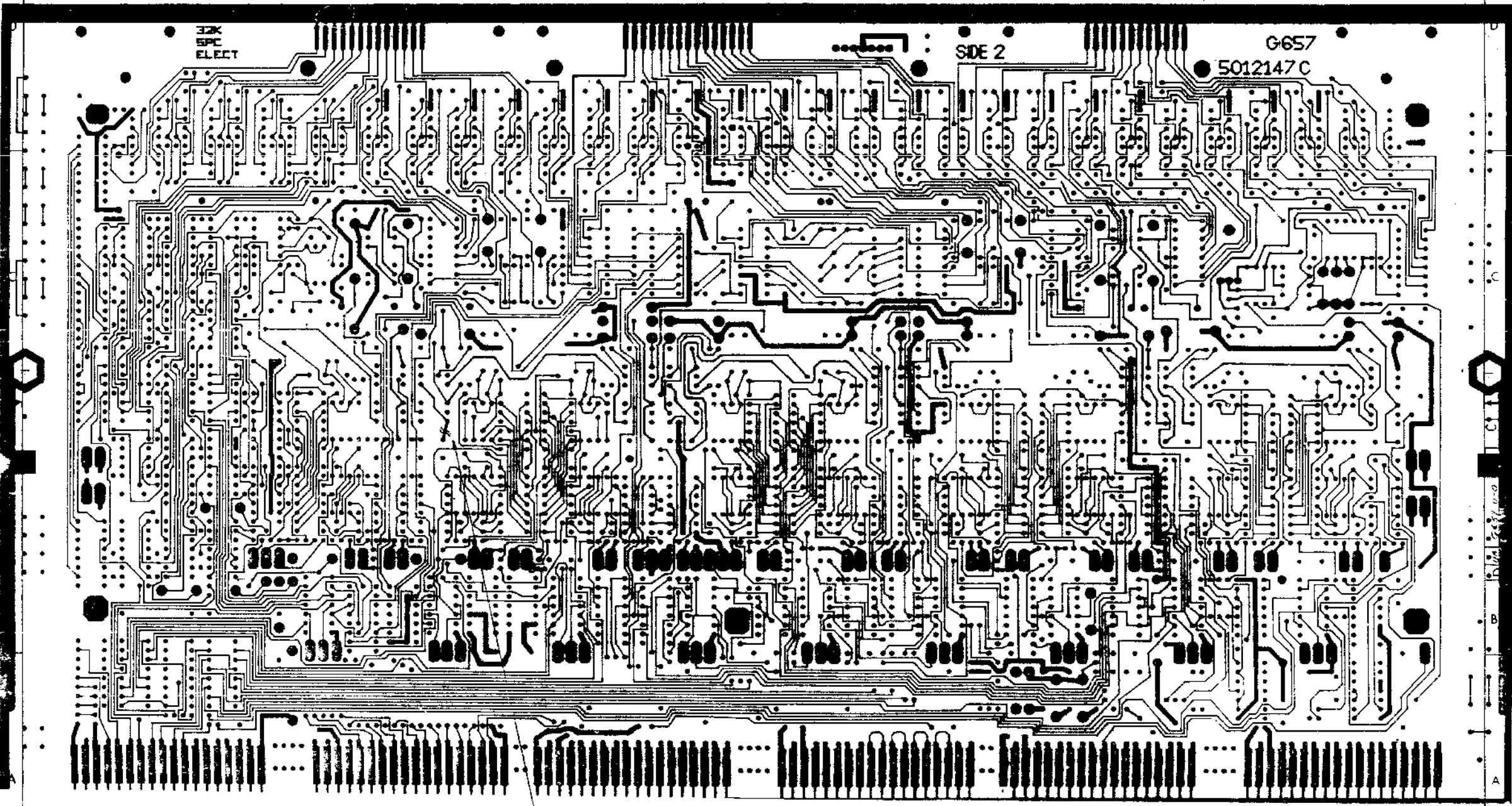
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32K
SPC
ELECT

SIDE 2

G657

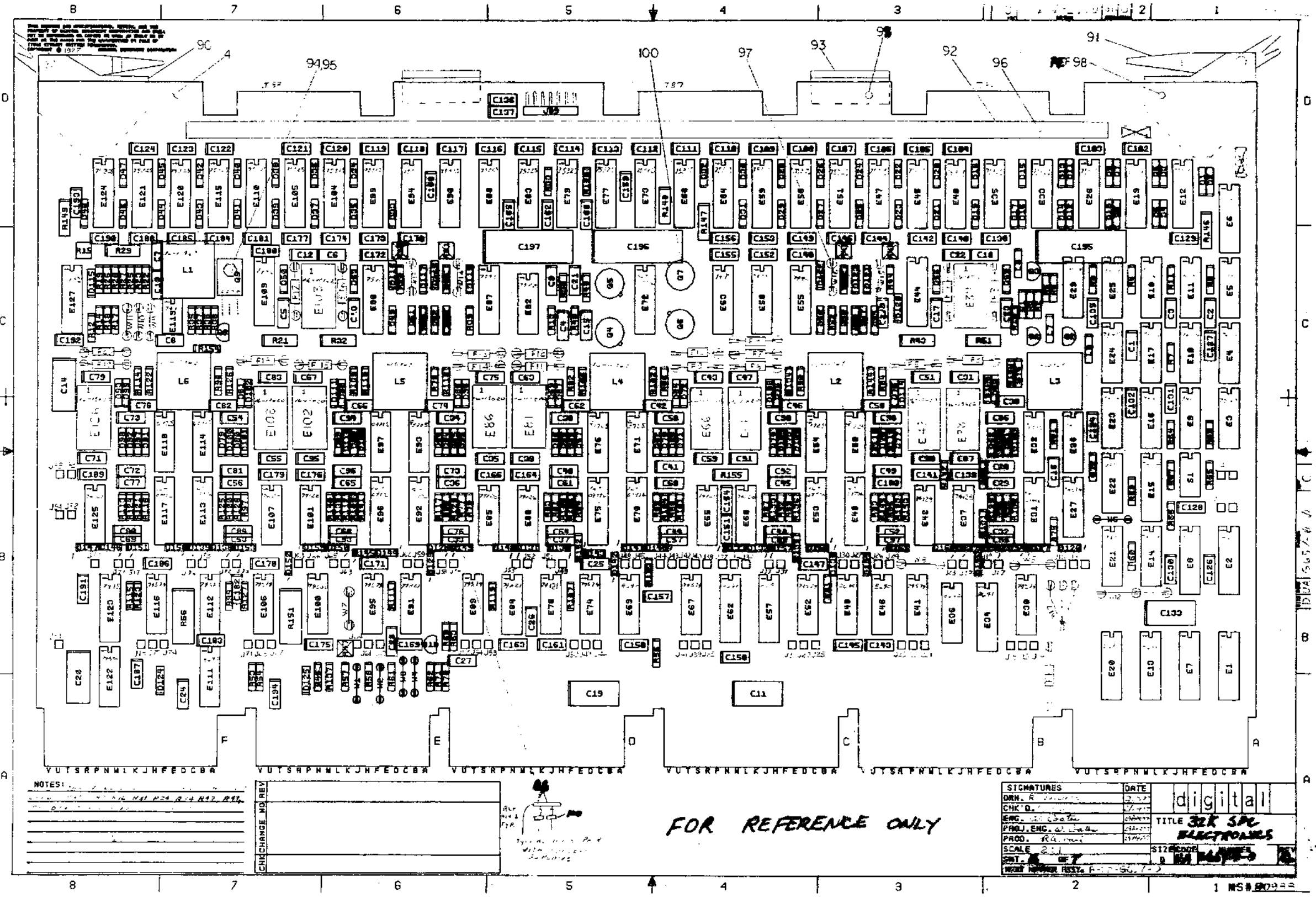
5012147 C



1-2

32K SPC ELECTRONICS		DVA	G657-0-0	C
2/1	SHELL 5			

319



NOTES:
 1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
 2. DIMENSIONS TO CENTER UNLESS OTHERWISE SPECIFIED.
 3. DIMENSIONS TO EDGE UNLESS OTHERWISE SPECIFIED.
 4. DIMENSIONS TO FACE UNLESS OTHERWISE SPECIFIED.
 5. DIMENSIONS TO BACK UNLESS OTHERWISE SPECIFIED.
 6. DIMENSIONS TO CENTER UNLESS OTHERWISE SPECIFIED.
 7. DIMENSIONS TO EDGE UNLESS OTHERWISE SPECIFIED.
 8. DIMENSIONS TO FACE UNLESS OTHERWISE SPECIFIED.
 9. DIMENSIONS TO BACK UNLESS OTHERWISE SPECIFIED.

CHK	CHANGE NO.	REV

FOR REFERENCE ONLY

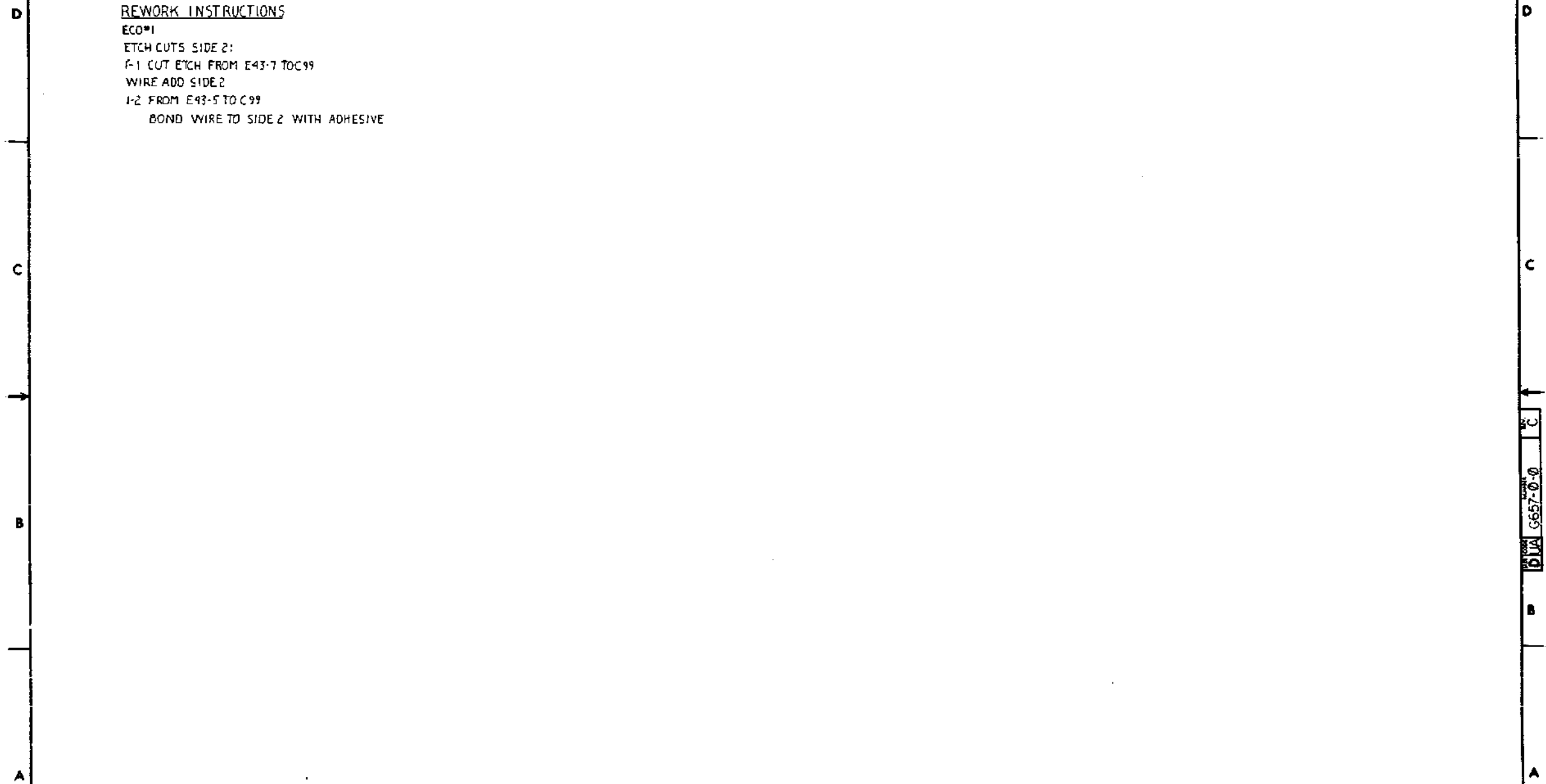
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CHK'D. [Signature]	07-02-77
ENG. [Signature]	07-02-77
PROJ. ENG. [Signature]	07-02-77
PROD. [Signature]	07-02-77
SCALE 2:1	SHEET 001 OF 01
TITLE: 32K SPC ELECTRONICS SIZE: 8 1/2" X 11" (A)	

320

8 7 6 5 4 3 2 1

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REWORK INSTRUCTIONS
 ECO#1
 ETCH CUTS SIDE 2:
 F-1 CUT ETCH FROM E43-7 TO C99
 WIRE ADD SIDE 2
 J-2 FROM E43-5 TO C99
 BOND WIRE TO SIDE 2 WITH ADHESIVE

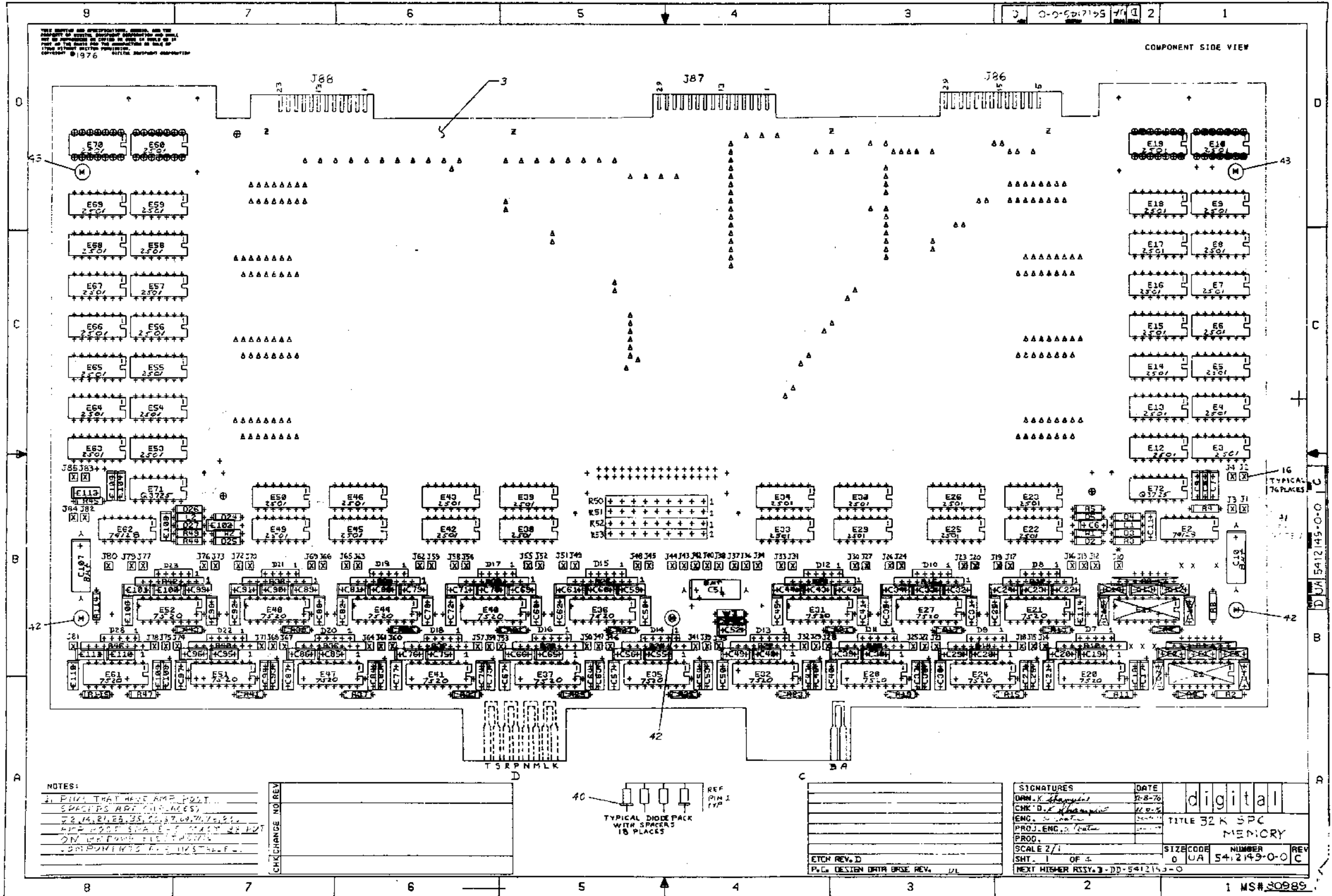


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE/DRAW	NUMBER	REV.
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SCALE	SHEET	OF	DIST.
	7	7	

8 7 6 5 4 3 2 1

321

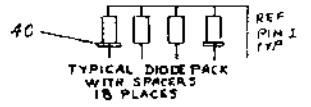


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COMPONENT SIDE VIEW

NOTES:
 1. PINS THAT HAVE AMP. PROT.
 SPECIF. ARE () IN CIRCLES.
 2. ALL DIMENSIONS ARE IN INCHES.
 3. ALL DIMENSIONS ARE TO CENTER UNLESS NOTED OTHERWISE.
 4. DIMENSIONS TO CENTER UNLESS NOTED OTHERWISE.
 5. DIMENSIONS TO CENTER UNLESS NOTED OTHERWISE.

CHANGE NO	REV



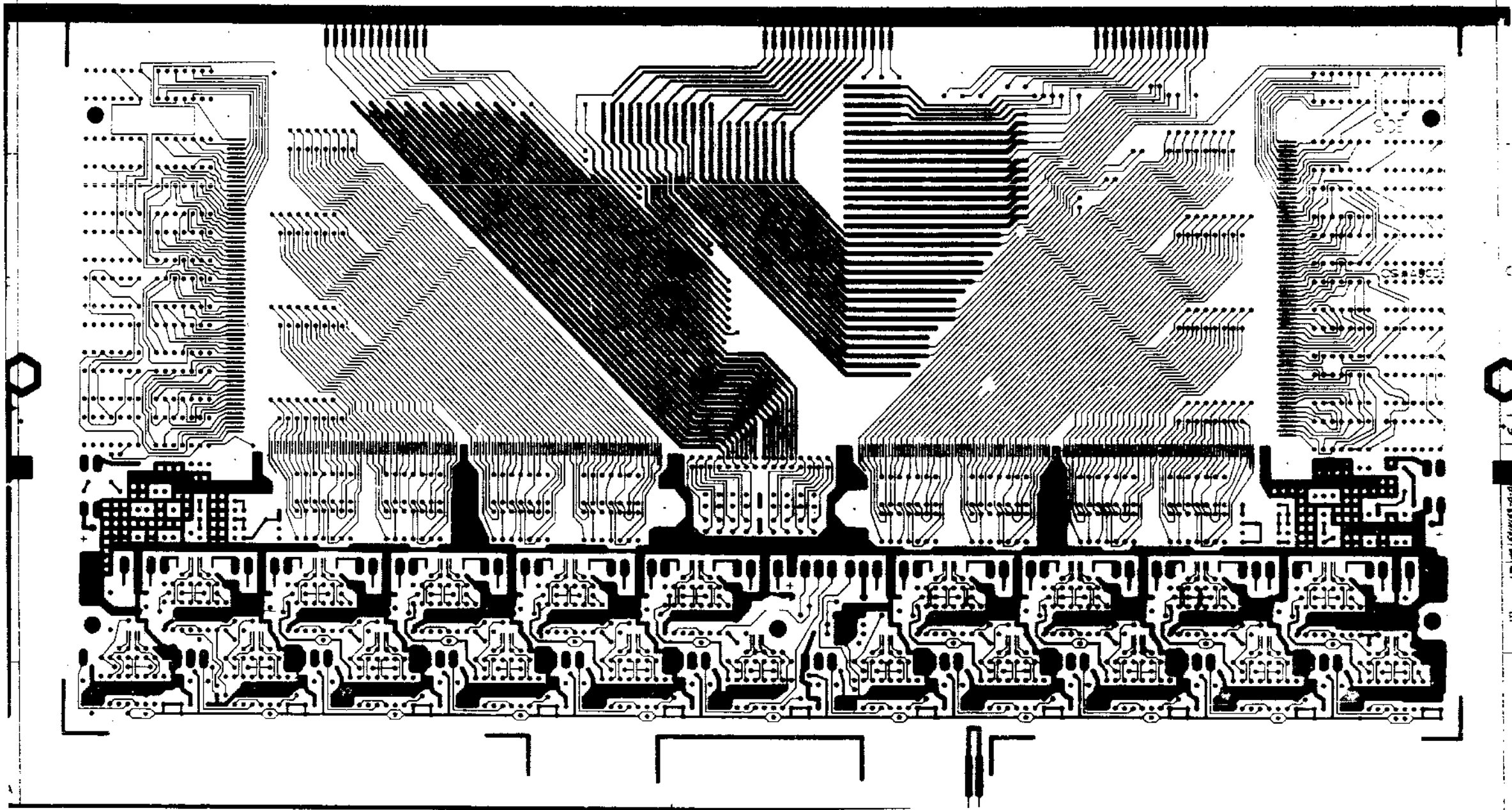
ETCH REV. D
P.L.C. DESIGN DATA BRD. REV. 1/1

SIGNATURES	DATE	digital
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CHK. D. [Signature]	11-2-76	
ENG. [Signature]		SCALE 2/1
PROJ. ENG. [Signature]		SHT. 1 OF 4
PROG. [Signature]		SIZE CODE 0 UA
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		REV C

5412149-00

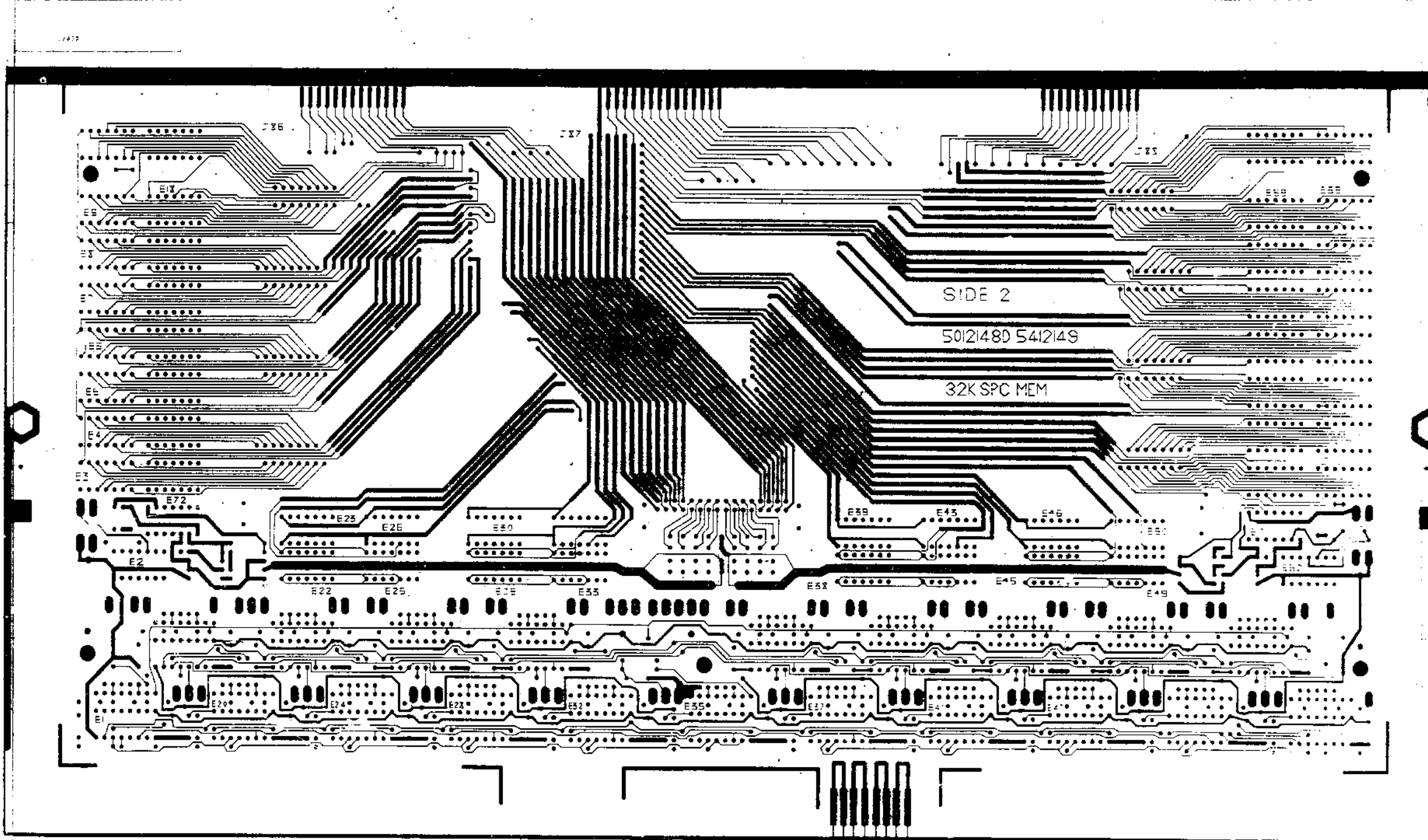
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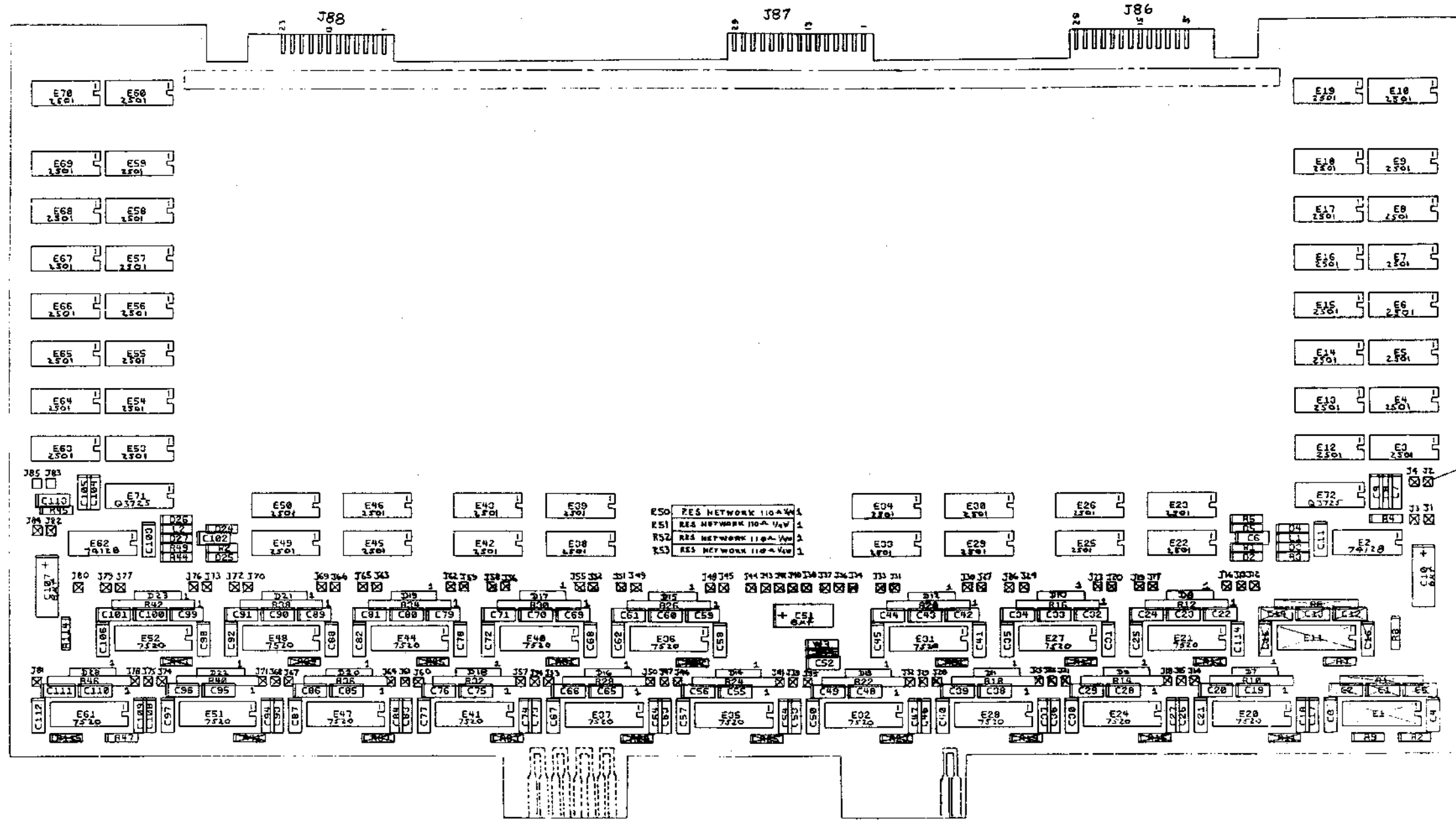
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 MEMORY 0 UA 5412149-0-0 C
 211 2

323



32K SPC
MEMORY DUA 5412149-0-0 C
211 3 4

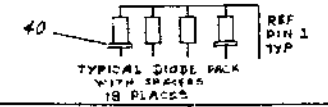
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 APPROVED: 1976 ASI/A. EQUIPMENT IDENTIFICATION



NOTES:
 1. PINS THAT HAVE AMP POST SPACERS
 ARE INDICATED BY 14, 013, 05, 10,
 17, 18, 21, 23, 25,
 AMP POST SPACERS MUST BE PUT
 ON BEFORE ELECTRONIC
 COMPONENTS ARE INSTALLED.

CHANGE NO.	REV.

THIS DRAWING FOR REFERENCE ONLY



ETCH REV. D	P.C. DESIGN DATA BASE REV. DL
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SIGNATURES	DATE
DRN. <i>K. J. ...</i>	11-2-76
CHK. <i>D. K. ...</i>	11-9-76
ENG. <i>A. ...</i>	11-22-76
PROJ. ENG. <i>W. ...</i>	11-22-76
PROD. <i>K. ...</i>	11-22-76

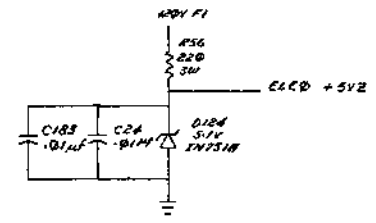
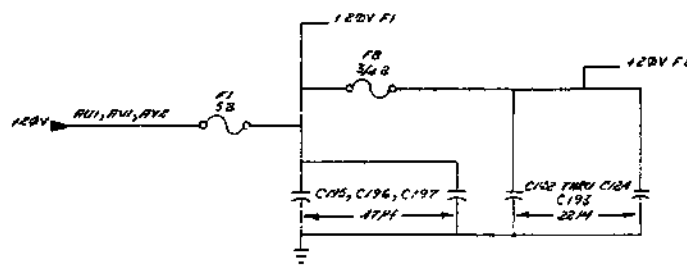
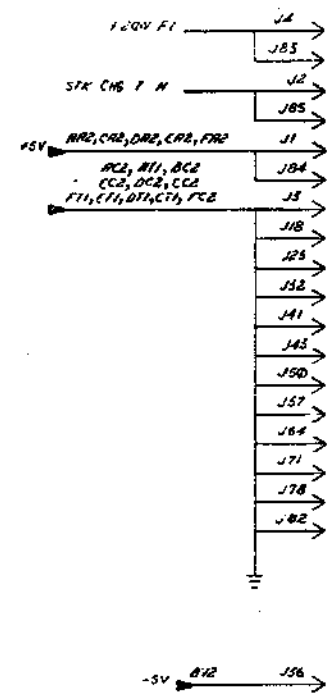
digital	
TITLE 32K SPC MEMORY	
SCALE 2/1	SIZE CODE NUMBER REV
SHT. 4 OF 4	0 WA 5412149-0-0 C
NEXT HIGHER ASSY: 8-DD-5412149-0-0	

325

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BANK SELECTION

	NON INTLR LEAVED	INTLR LEAVED	A17	A16	A15	A14	A13	A12
3K	CPA1	CPA2	SA1	SA2	SA3	SA4	SA5	SA6
5	32K	64K	ON	ON	ON	ON	ON	ON
1K	32K	64K	ON	ON	ON	ON	ON	ON
8K	48K	72K	ON	ON	ON	ON	OFF	ON
12K	48K	72K	ON	ON	ON	ON	OFF	ON
16K	64K	96K	ON	ON	OFF	ON	ON	ON
20K	64K	96K	ON	ON	OFF	ON	ON	ON
24K	64K	96K	ON	ON	OFF	ON	ON	ON
28K	64K	96K	ON	ON	OFF	ON	ON	ON
32K	64K	96K	ON	OFF	ON	ON	ON	ON
36K	64K	96K	ON	OFF	ON	ON	ON	ON
40K	72K	108K	ON	OFF	ON	ON	OFF	ON
44K	72K	108K	ON	OFF	ON	ON	OFF	ON
48K	96K	144K	ON	OFF	ON	ON	ON	ON
52K	96K	144K	ON	OFF	ON	ON	ON	ON
56K	96K	144K	ON	OFF	ON	ON	ON	ON
60K	96K	144K	ON	OFF	ON	ON	ON	ON
64K	96K	144K	ON	OFF	ON	ON	ON	ON
68K	120K	180K	ON	ON	ON	ON	ON	ON
72K	120K	180K	ON	ON	ON	ON	ON	ON
76K	120K	180K	ON	ON	ON	ON	ON	ON
80K	120K	180K	ON	ON	ON	ON	ON	ON
84K	120K	180K	ON	ON	ON	ON	ON	ON
88K	120K	180K	ON	ON	ON	ON	ON	ON
92K	120K	180K	ON	ON	ON	ON	ON	ON
96K	120K	180K	ON	ON	ON	ON	ON	ON
100K	120K	180K	ON	ON	ON	ON	ON	ON
104K	120K	180K	ON	ON	ON	ON	ON	ON
108K	120K	180K	ON	ON	ON	ON	ON	ON
112K	120K	180K	ON	ON	ON	ON	ON	ON
116K	120K	180K	ON	ON	ON	ON	ON	ON
120K	120K	180K	ON	ON	ON	ON	ON	ON



75225	8	9	16
8640	1	8	
3041	8	16	
7423R	12	5	
7475	12	5	
7472	8	16	
IC TYPE	END	+5V	+20

NOTES:

- INTERFERE CONTROL IS ACHIEVED AS FOLLOWS:
(A) NON-INTERFERED.
(B) INTERFERED.
(C) THE BANK SELECTION SWITCH MUST BE SET THE SAME ON BOTH MEMORIES.
- UNDER NORMAL CONDITIONS (W5, W6, OUT) THE MEMORY WILL NOT RESPOND TO ADDRESS BETWEEN 124K AND 127K, BECAUSE THESE ADDRESSES ARE RESERVED FOR PERIPHERAL DEVICES ON THE UNIBUS. FOR SPECIAL APPLICATIONS WHERE THE RANGE OF PERIPHERAL ADDRESS IS MORE RESTRICTED THAN THIS 4K RANGE THE MEMORY CAN BE CONFIGURED TO INCLUDE THE ADDITIONAL UNIBUS ADDRESSES AS FOLLOWS:
W5 IN } 124K TO 126K
W6 OUT }
W5 IN } 124K TO 127K
W6 IN }
NOTE THAT FOR SYSTEMS WITHOUT MEMORY MANAGEMENT, THIS MEANS THE USUAL VIRTUAL ADDRESS SPACE FOR MEMORY CAN BE EXTENDED FROM 20K TO 50K OR 51K BY SACRIFICING SOME PERIPHERAL SPACE.
CAUTION: SOME DIGITAL SOFTWARE MAY NOT BE COMPATIBLE WITH THE REDUCED PERIPHERAL ADDRESS SPACE. TO ASSURE COMPATIBILITY W5 AND W6 MUST BE OUT.
- SCHEMATIC FOR 128K MEMORY SWITCH IS SHOWN ON CS-541249-D-1.

MODE	WRITABLE UNIBUS L	CLOCK IN CLOCK IN	UNIBUS CLEAR L	UNIBUS UNIBUS L	UNIBUS UNIBUS L	OUT EN L
WRITE BUS CI = H	H	L	L	L	L	L
WRITE BUS CI = H	L	L	L	H	L	H
WRITE BUS CI = L	L	L	L	H	L	H
WRITE BUS CI = L	H	L	L	L	L	H

- W5, W6, W7, W8, W9, W10, W11, W12, W13, W14, W15, W16, W17, W18, W19, W20, W21, W22, W23, W24, W25, W26, W27, W28, W29, W30, W31, W32, W33, W34, W35, W36, W37, W38, W39, W40, W41, W42, W43, W44, W45, W46, W47, W48, W49, W50, W51, W52, W53, W54, W55, W56, W57, W58, W59, W60, W61, W62, W63, W64, W65, W66, W67, W68, W69, W70, W71, W72, W73, W74, W75, W76, W77, W78, W79, W80, W81, W82, W83, W84, W85, W86, W87, W88, W89, W90, W91, W92, W93, W94, W95, W96, W97, W98, W99, W100.
- W5, W6, W7, W8, W9, W10, W11, W12, W13, W14, W15, W16, W17, W18, W19, W20, W21, W22, W23, W24, W25, W26, W27, W28, W29, W30, W31, W32, W33, W34, W35, W36, W37, W38, W39, W40, W41, W42, W43, W44, W45, W46, W47, W48, W49, W50, W51, W52, W53, W54, W55, W56, W57, W58, W59, W60, W61, W62, W63, W64, W65, W66, W67, W68, W69, W70, W71, W72, W73, W74, W75, W76, W77, W78, W79, W80, W81, W82, W83, W84, W85, W86, W87, W88, W89, W90, W91, W92, W93, W94, W95, W96, W97, W98, W99, W100.

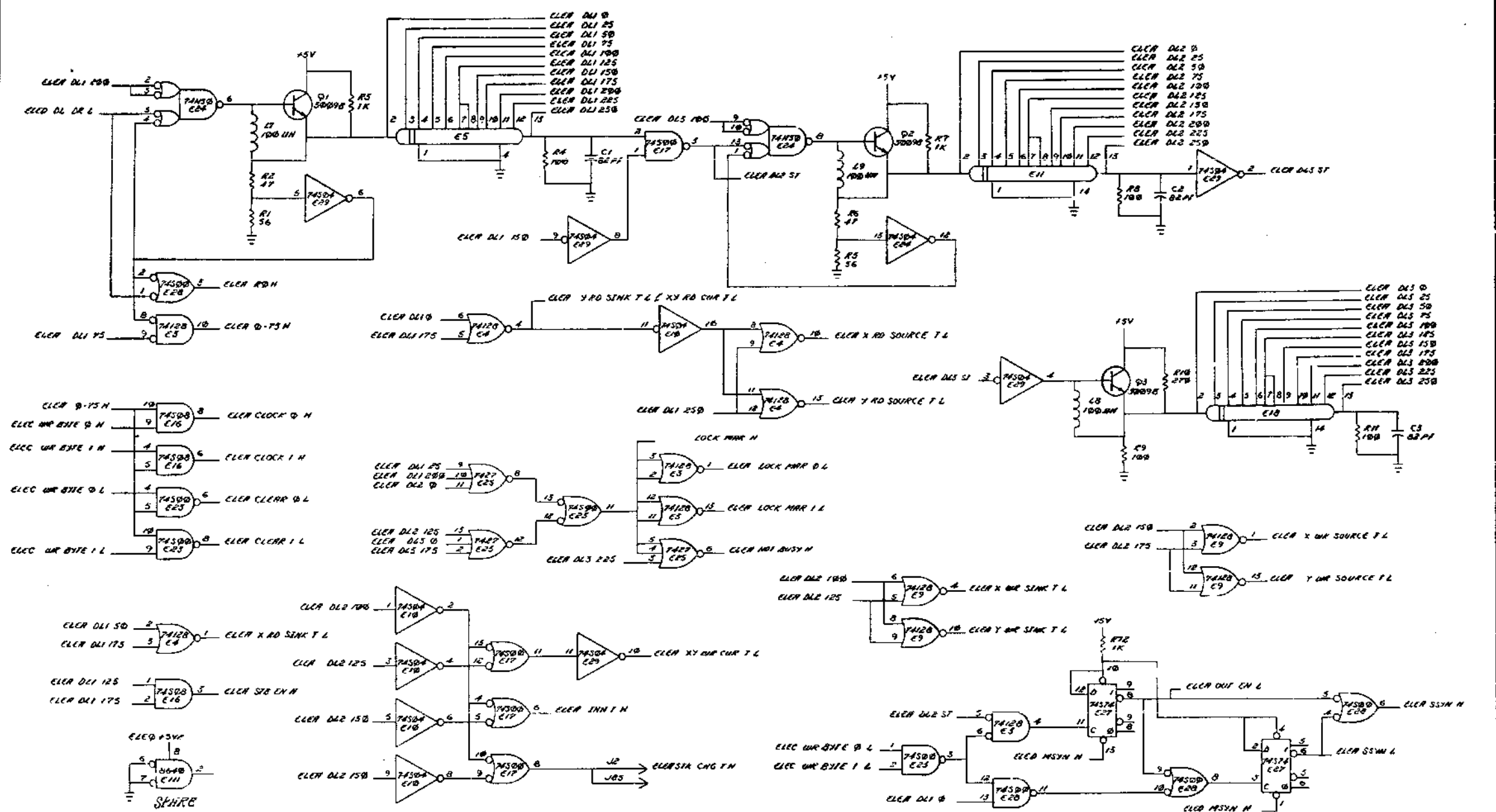
CHKD BY	MM11-YP	DATE	1/28/77
PROJ ENGR	(ELE0) 32K SPEC	TITLE	ELECTRONICS
SCALE	1:1	SIZE	D
SHEET	1 OF 18	NUMBER	8657-0-1

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NOTE ALL DIODES D47Z UNLESS OTHERWISE SPECIFIED

BUS GRANT LINES

- D47-D48
- D49-D50
- D51-D52
- D53-D54
- C61-C62



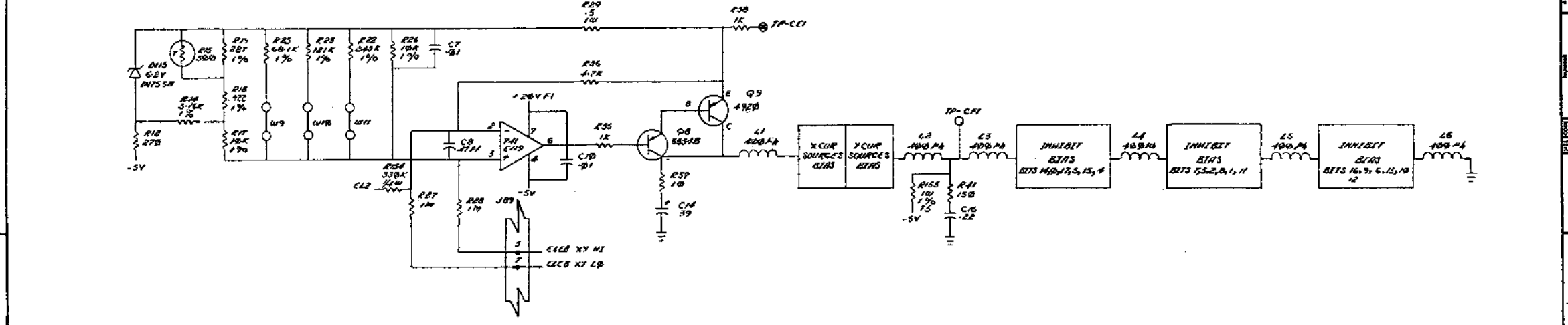
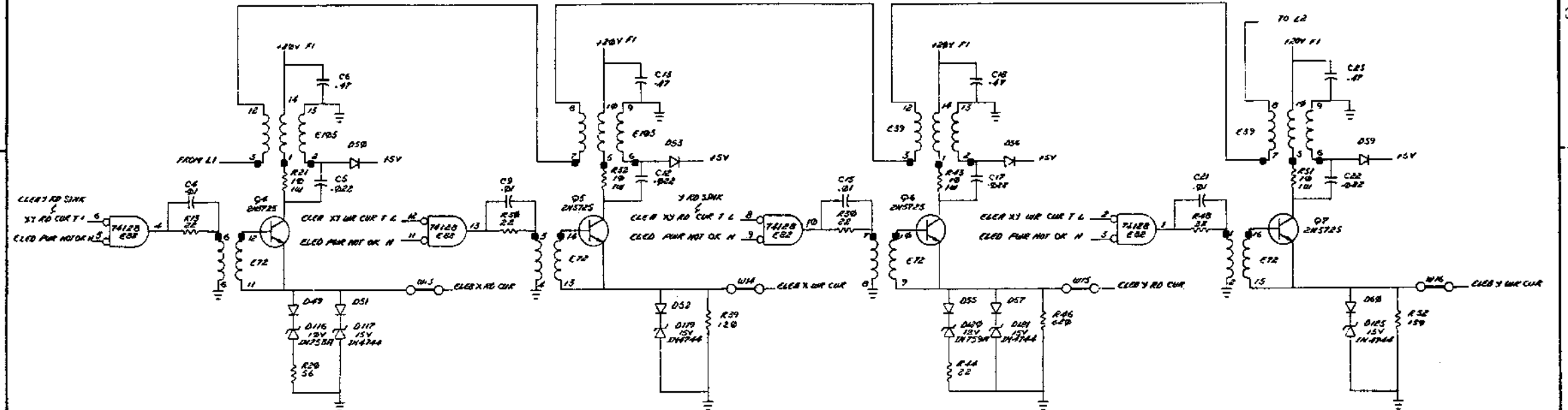
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CHK	CHANGE NO.	REV

TITLE	(ELEA)	DWG CODE	NUMBER	REV.
32K SPC ELECTRONICS	D/CS	G667-0-1	1	C
SCALE	1:1	SHEET 2 OF 16	DIST.	

327

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1-0-4999 520 2



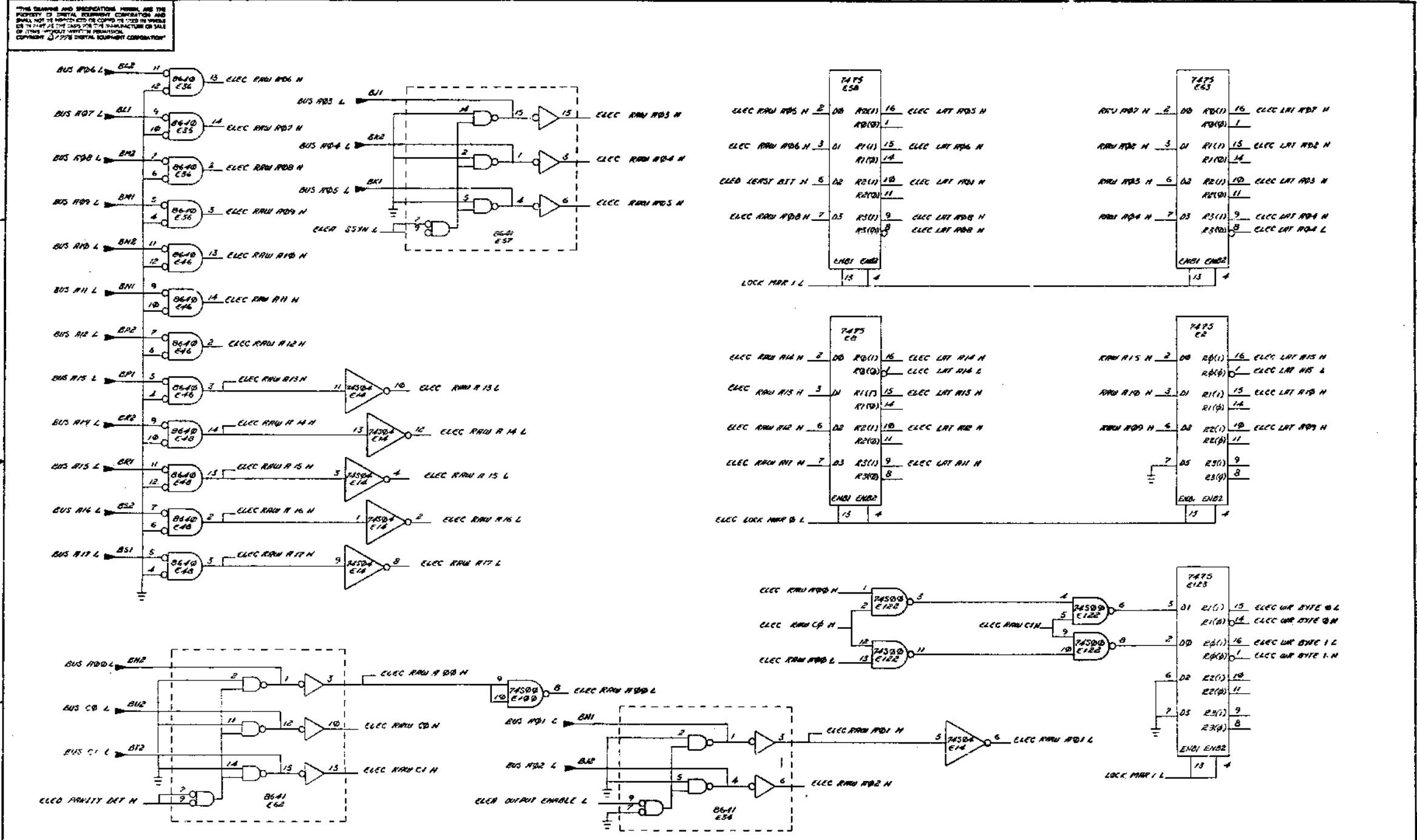
REV	CHANGE	DATE

TITLE (ELES) 32KSPC ELECTRONICS DCS G657-0-1 C
 SCALE NONE SHEET 3 OF 13 DSY.

328

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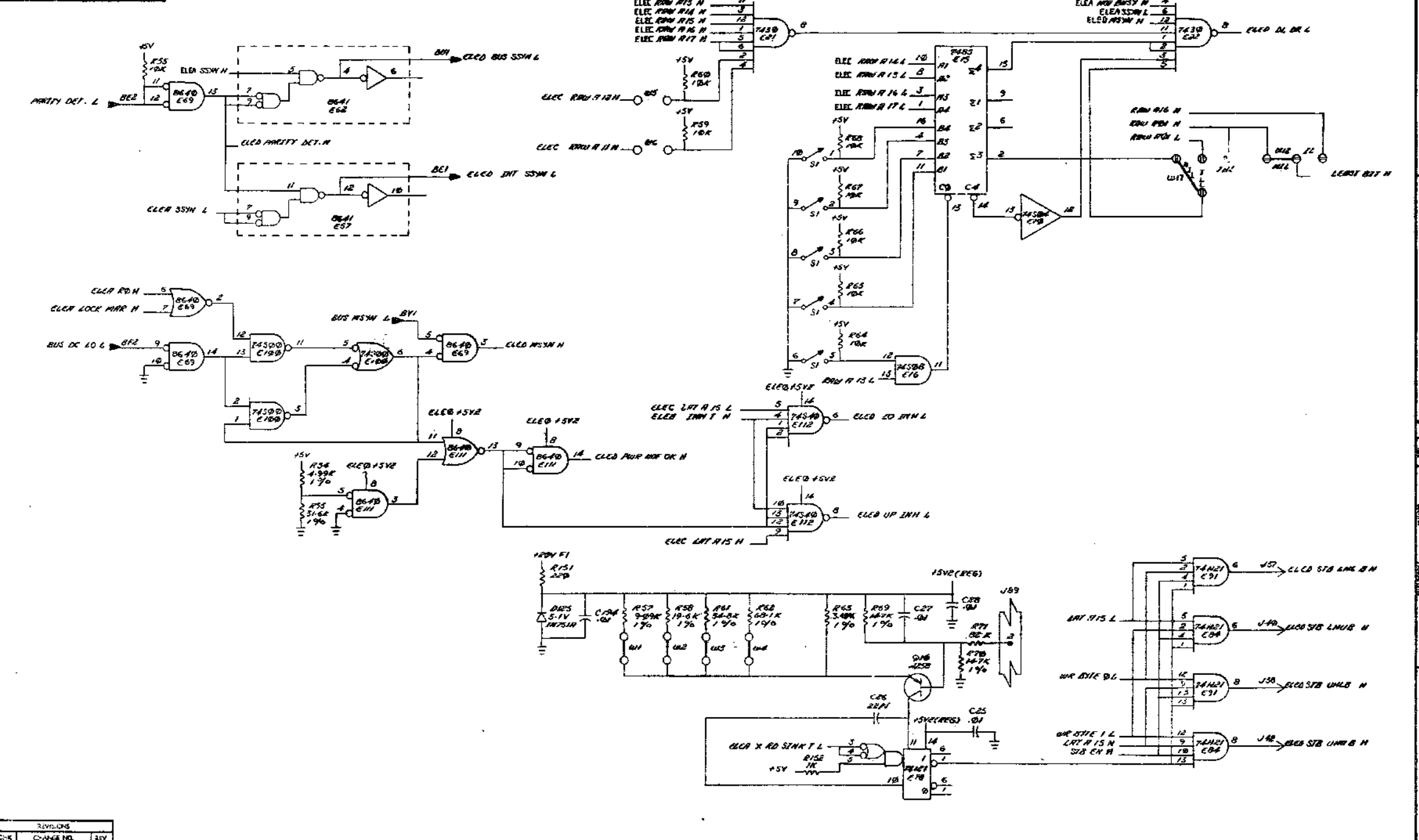
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REV.	CHANGE NO.	REV.

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 SCALE: NONE SHEET: 4 OF 18

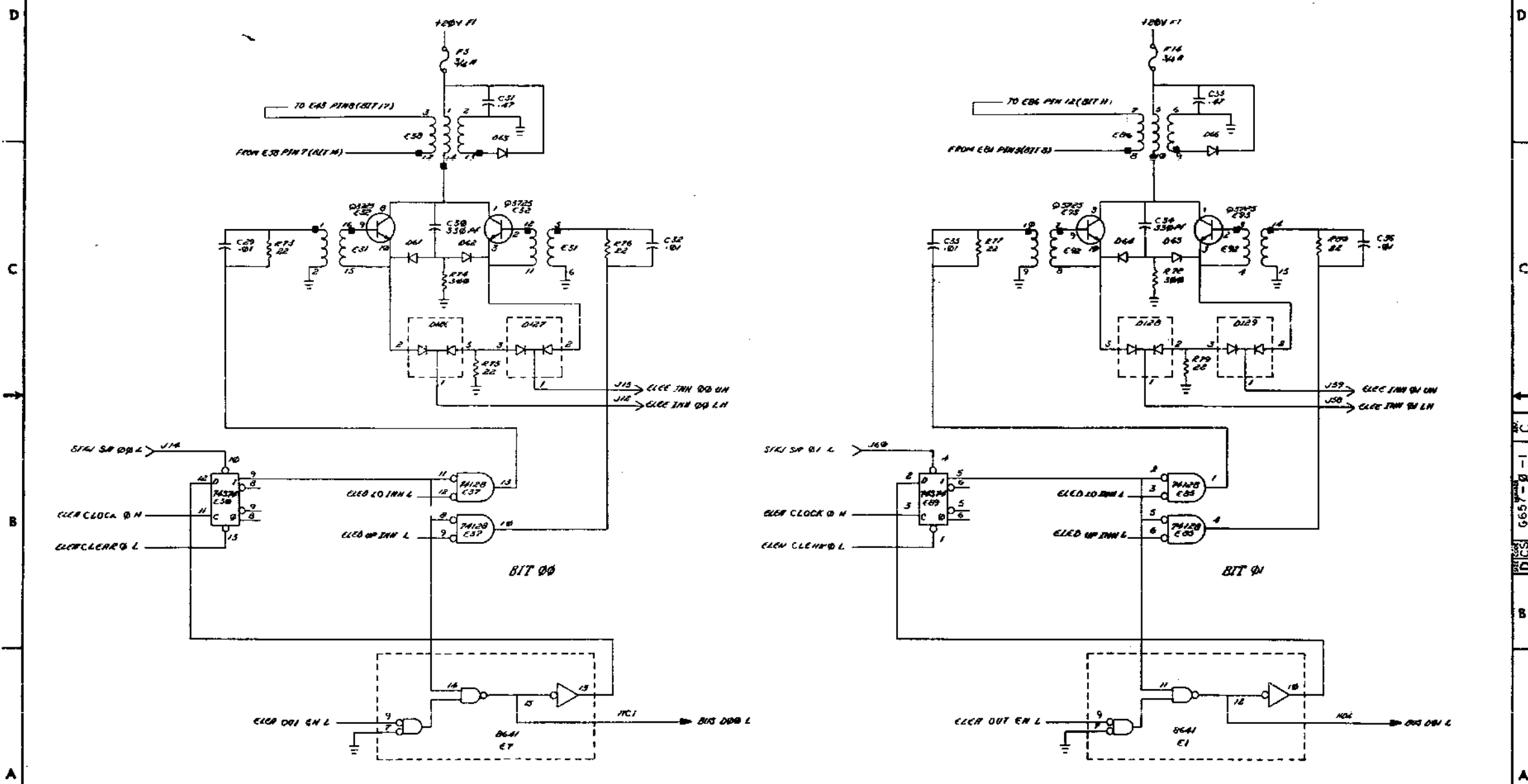
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REV.	DESCRIPTION	DATE
1	INITIAL	
2	CHANGE NO. 1	
3	REV.	

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 SCALE: NOTED
 SHEET: 5 OF 18
 DIB: []
 NUMBER: 6657-0-1
 REV: C

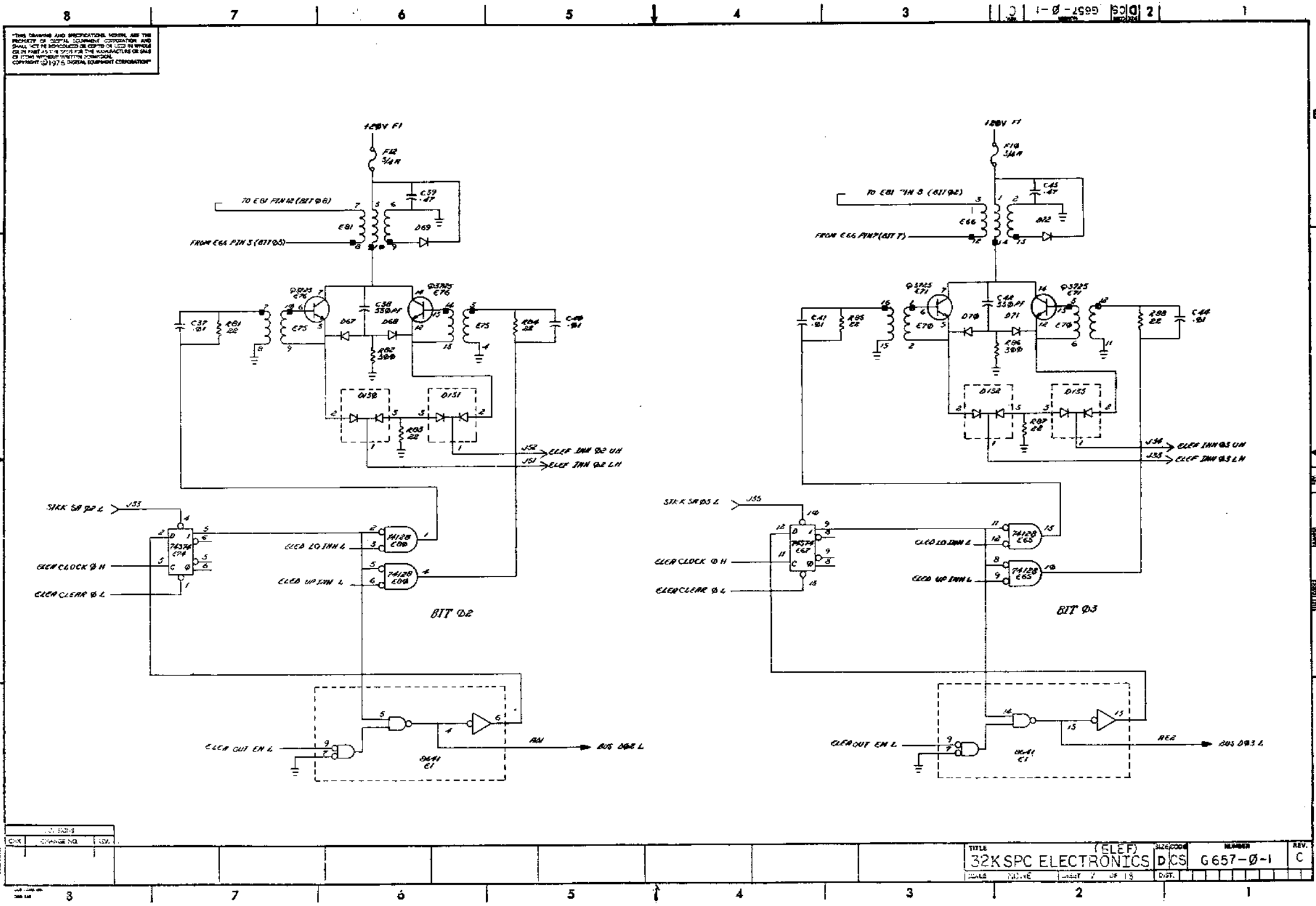
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DCS 6657-0-1 C

REVISIONS		
NO.	CHANGE NO.	REV.

331



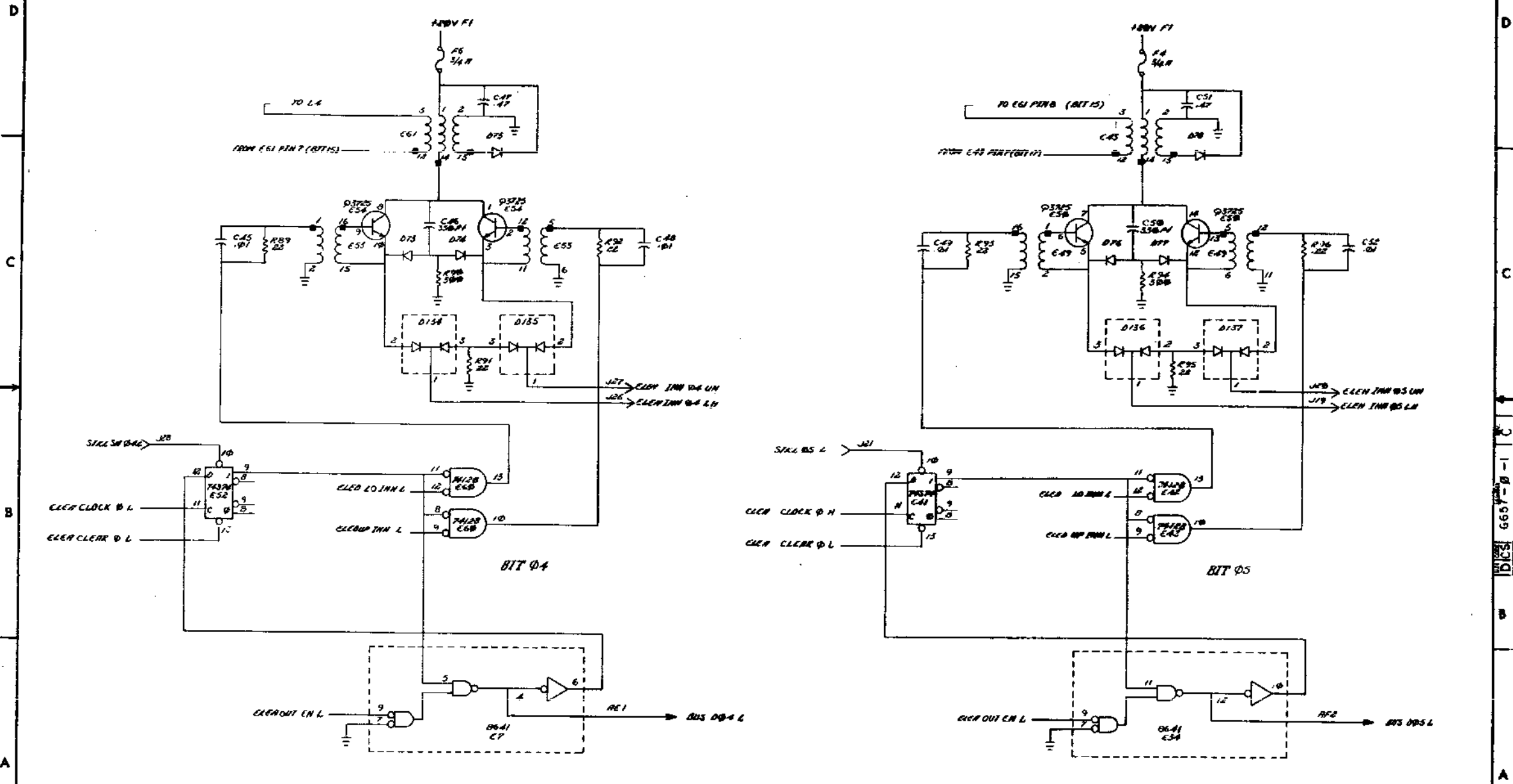
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REV.	C	NO.	1	OF	13	TITLE	32KSPC ELECTRONICS (ELEF)	SIZE	COO	NUMBER	G657-0-1	REV.	C
DATE		SCALE	NONE										

332

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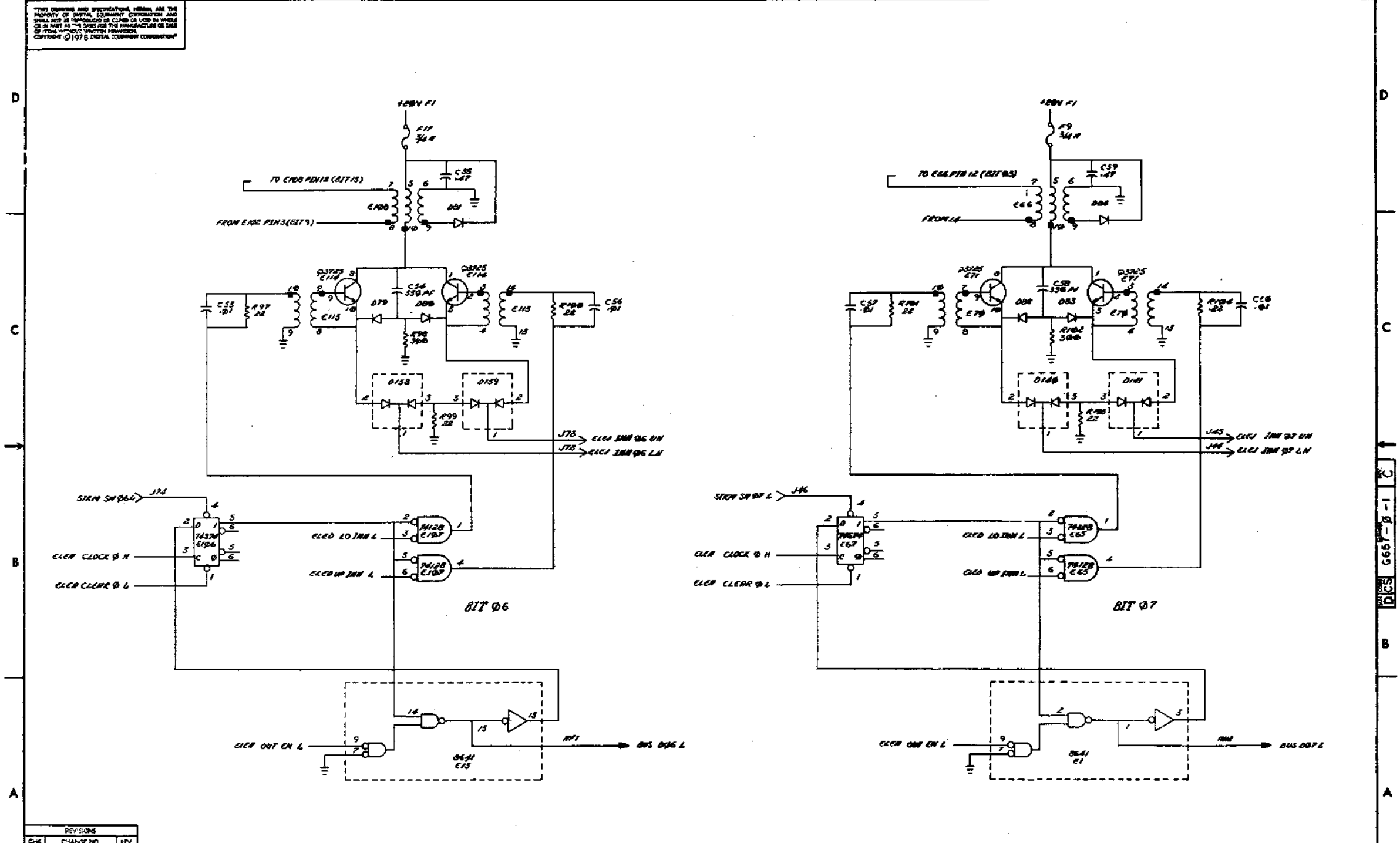
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REV.	CHANGE NO.	REV.

TITLE (ELEH)
32K SPC ELECTRONICS
 SCALE NONE SHEET 8 OF 18
 NUMBER DCS 6657-0-1
 REV. C

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REVISIONS			TITLE		DRAWING		NUMBER		REV.	
CHK	CHANGE NO.	REV.	32KSPC ELECTRONICS (ELEJ)		DCS		G657-0-1		C	
			SCALE	NONE	SHEET	9	OF	15	DIST.	

8

7

6

5

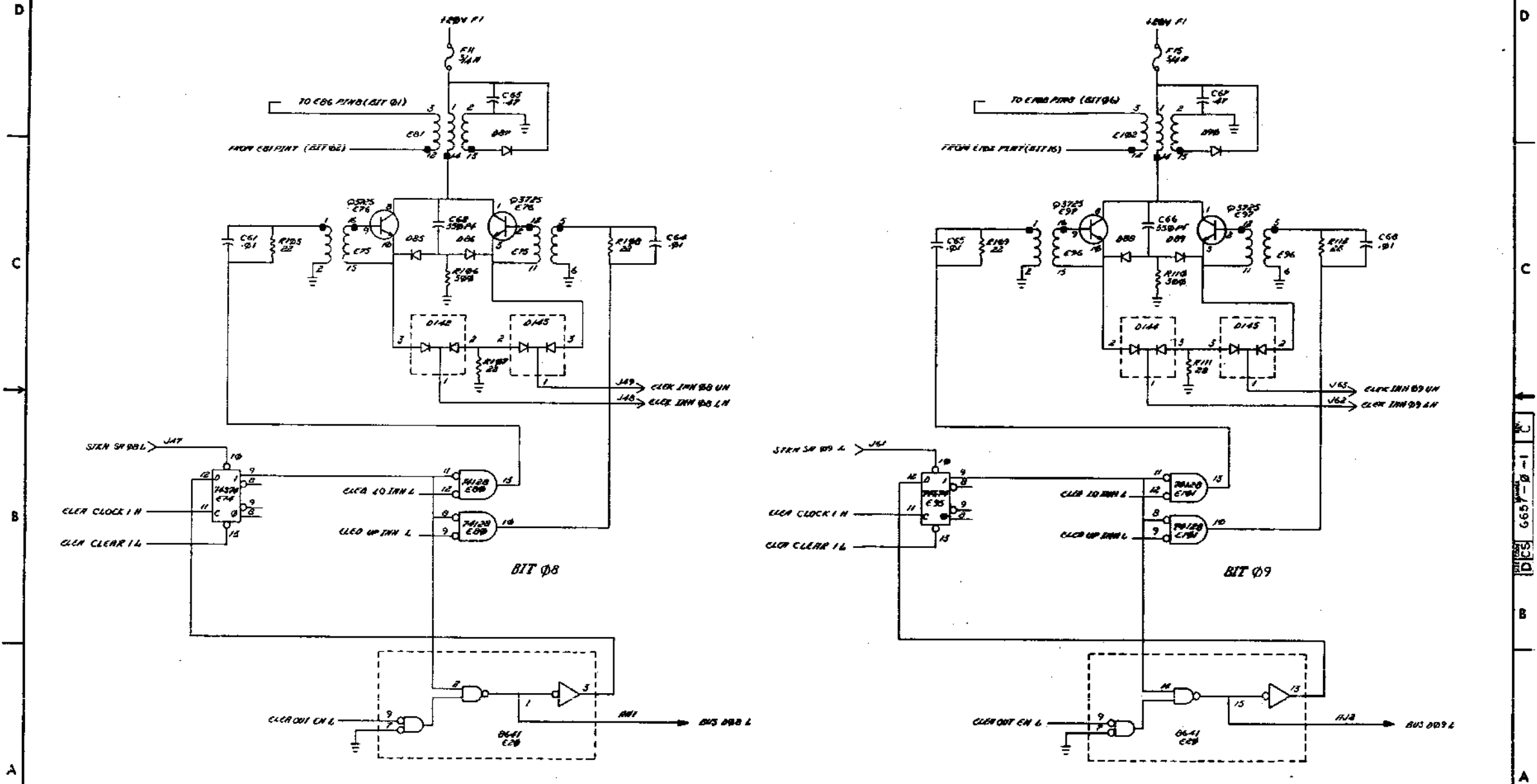
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1-0-2997 DCS 2

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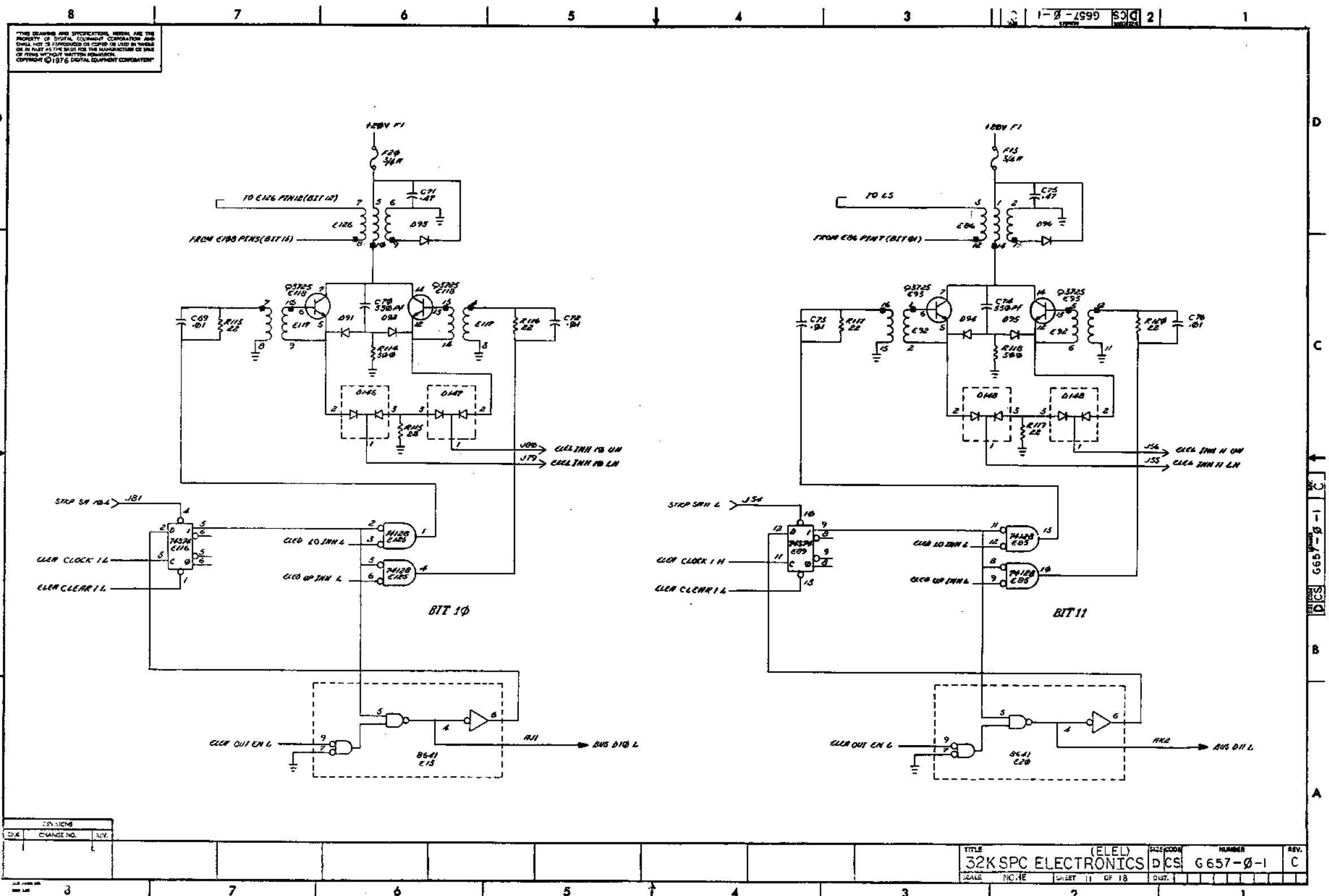
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REV.	CHANGE NO.	REV.

TITLE: 32K SPC ELECTRONICS (ELEK) DCS 6657-0-1
 SCALE: NONE SHEET 10 OF 16
 NUMBER: 6657-0-1 REV. C

335



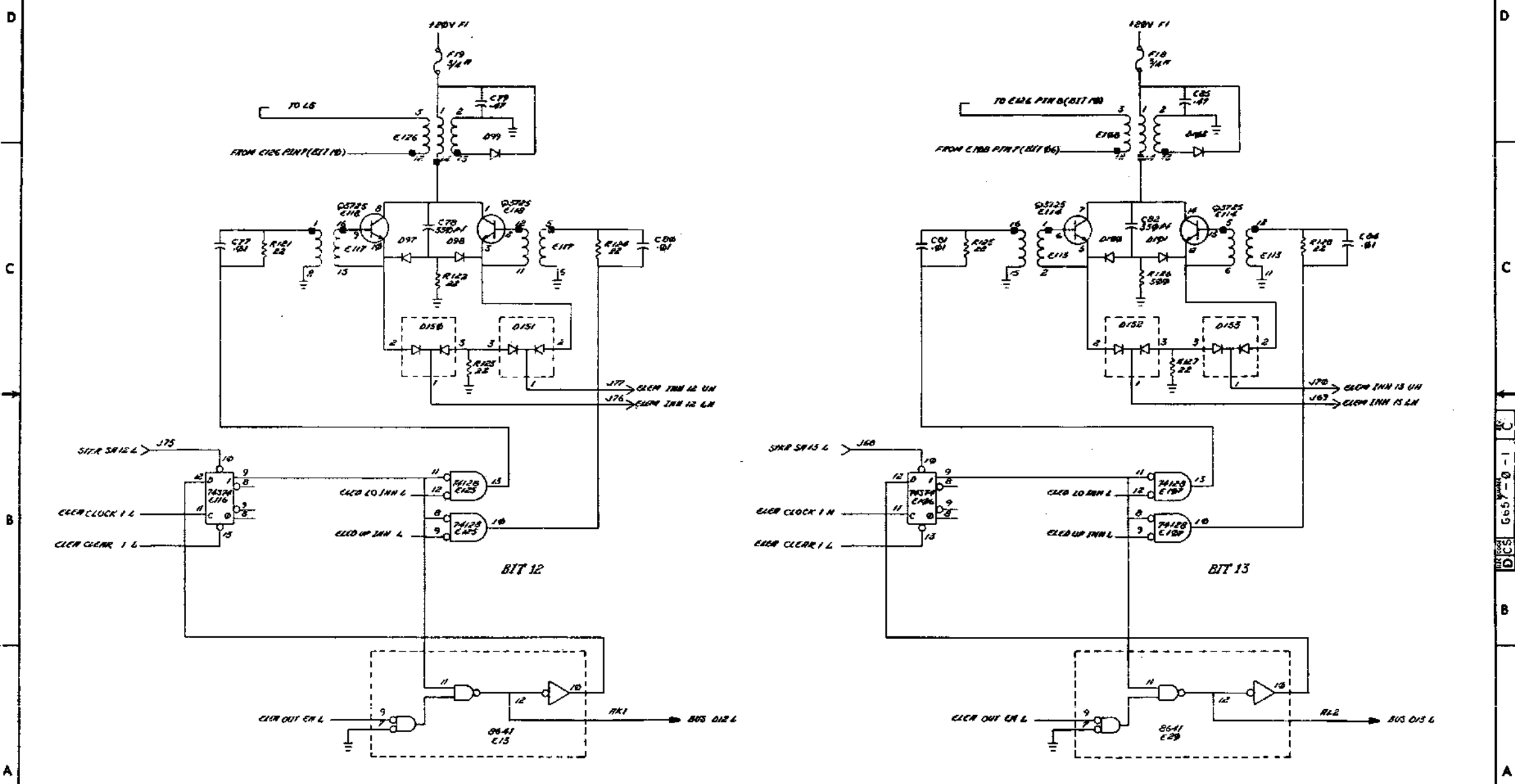
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REV.	CHANGE NO.	REV.

TITLE (EEL) 32KSPC ELECTRONICS DCS G 657-0-1 NUMBER 11 OF 18 SHEET 11 OF 18 DIST. C

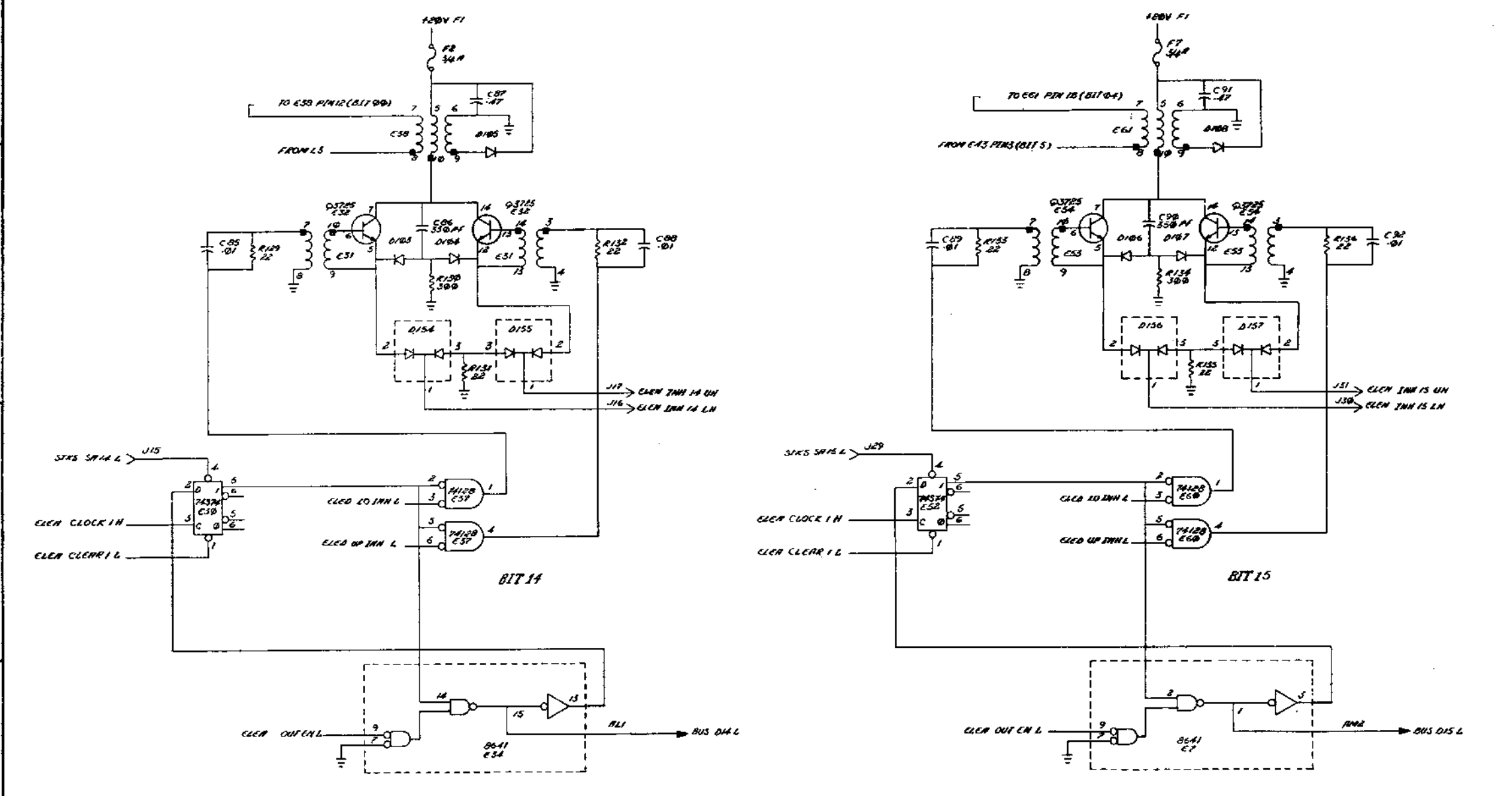
336

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REVISIONS			TITLE		SIZE CODE		NUMBER		REV.	
OK	CHANGE NO.	REV.	32K SPC ELECTRONICS (ELEM)		DCS		G657-0-1		C	
			SCALE	NOTE	SHEET	12	OF	18	DIST.	

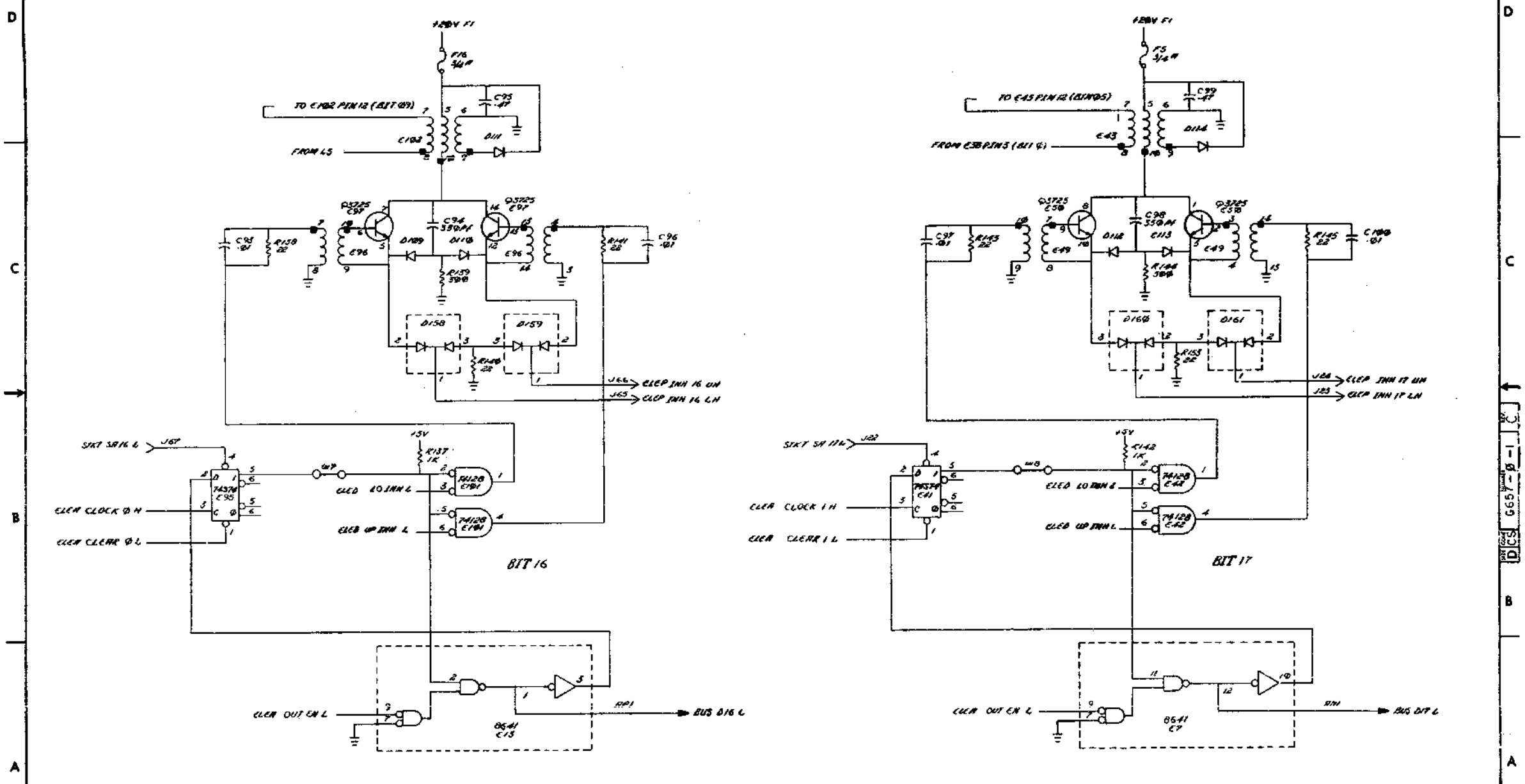
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REV.	C	DATE	12/15/76	BY	...	CHKD	...	APP'D	...	TITLE	(ELEN) 32KSPC ELECTRONICS	SHEET	13 OF 18	SCALE	1:1
REV.	B	DATE	...	BY	...	CHKD	...	APP'D	...	TITLE	...	SHEET	...	SCALE	...
REV.	A	DATE	...	BY	...	CHKD	...	APP'D	...	TITLE	...	SHEET	...	SCALE	...

338

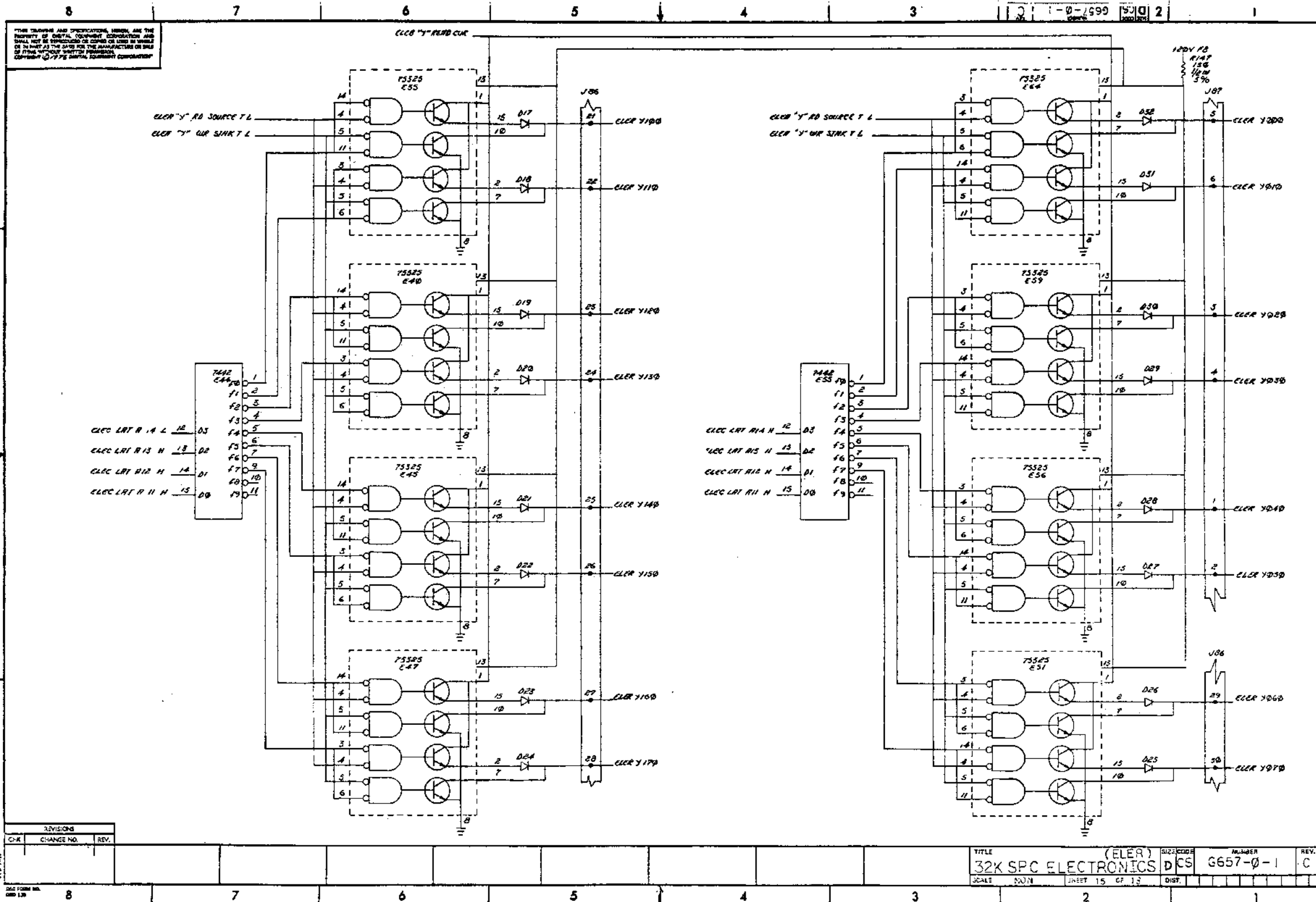
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TYPINGS		
LINE	CHANGE NO.	REV.

TITLE	(ELEP) 32K SPC ELECTRONICS	SIZE	CODE	NUMBER	REV.
DATE	0.12	SHEET	14	OF	13
DCS G657-0-1		DIGT.			

32

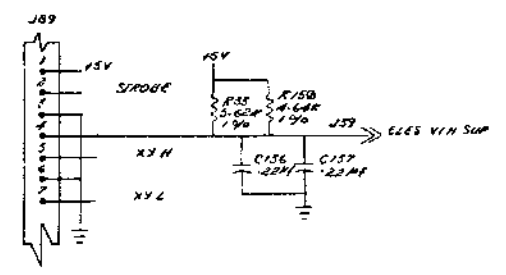
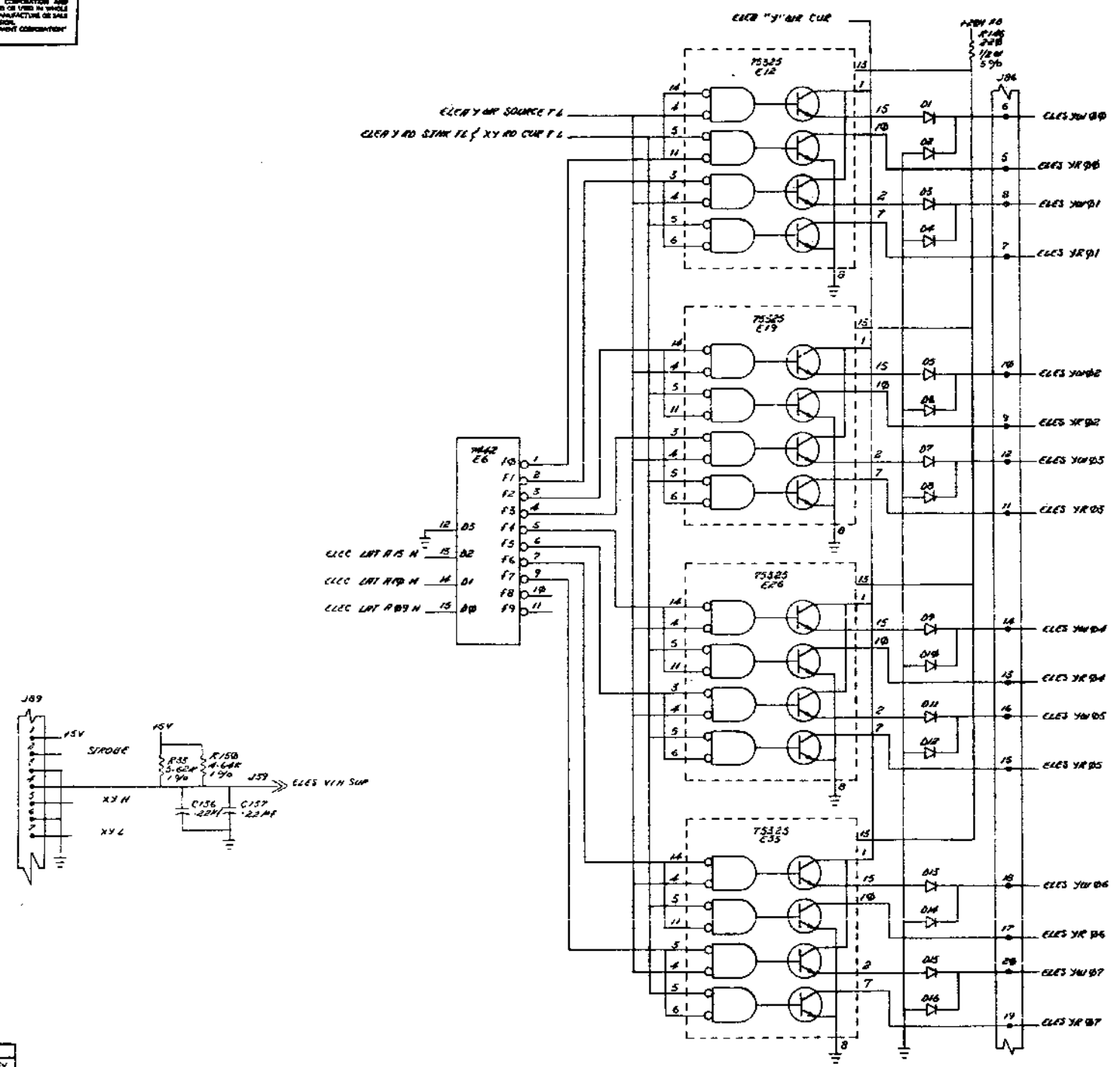


340

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8 7 6 5 4 3 2 1

1-0-2599 [CS] 2

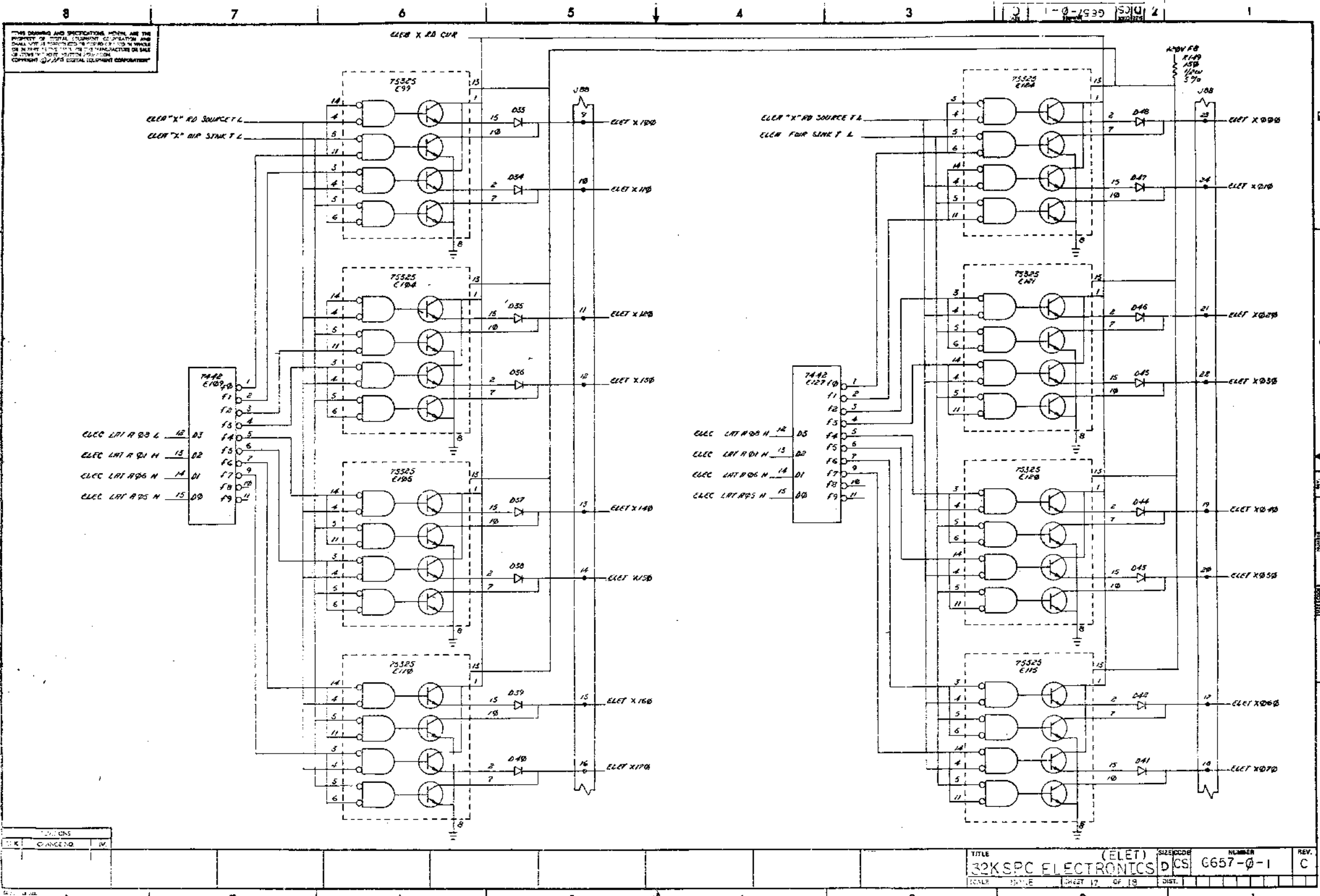


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE (ELES) 32K SPC ELECTRONICS DCS NUMBER G657-0-1 REV. C
 SCALE NONE SHEET 15 OF 15 DIST.

3 7 6 5 4 3 2 1

341

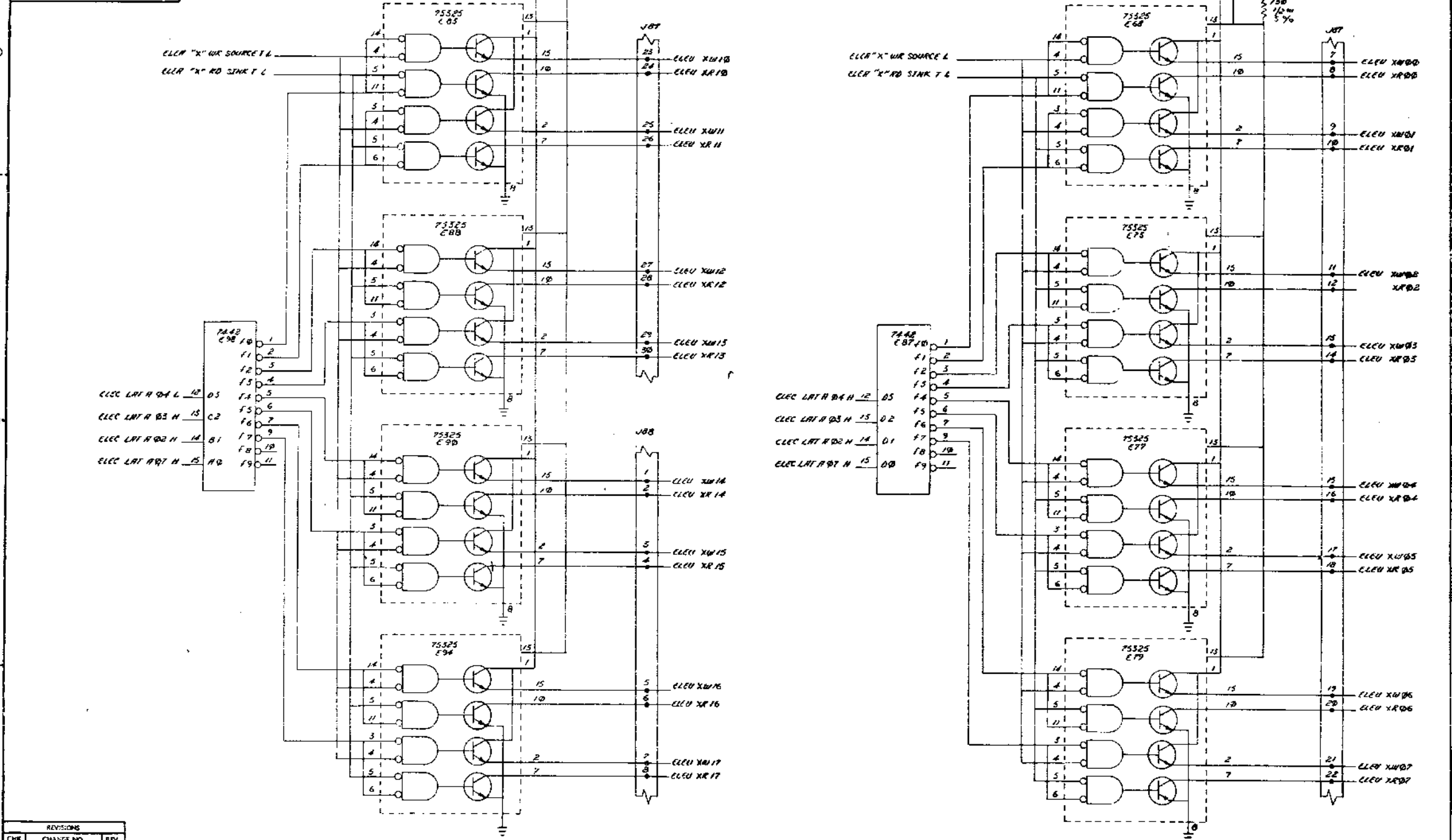


NO.	DESCRIPTION	DATE
1	CHANGE NO.	
2	IV.	

TITLE	(ELET)	SIZE/CODE	NUMBER	REV.
32KSPC ELECTRONICS	DCS	G657-0-1	C	
SCALE	1:1	SHEET 17 OF 18	DIST.	

342

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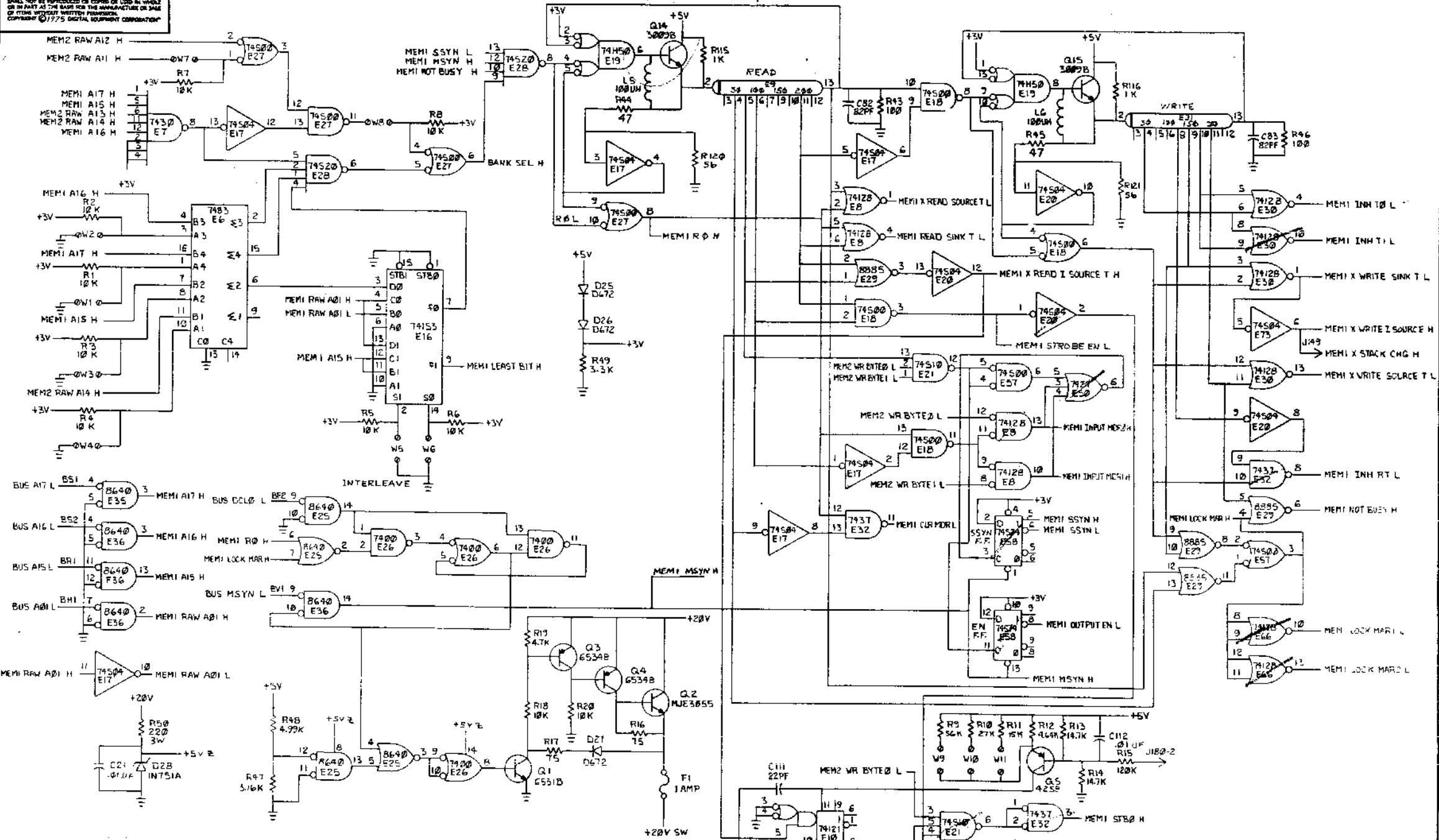


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE (ELEC) 32KSPC ELECTRONICS DCS NUMBER G657-0-1 REV. C
 SCALE NONE SHEET 18 OF 19 DIST. 1

343

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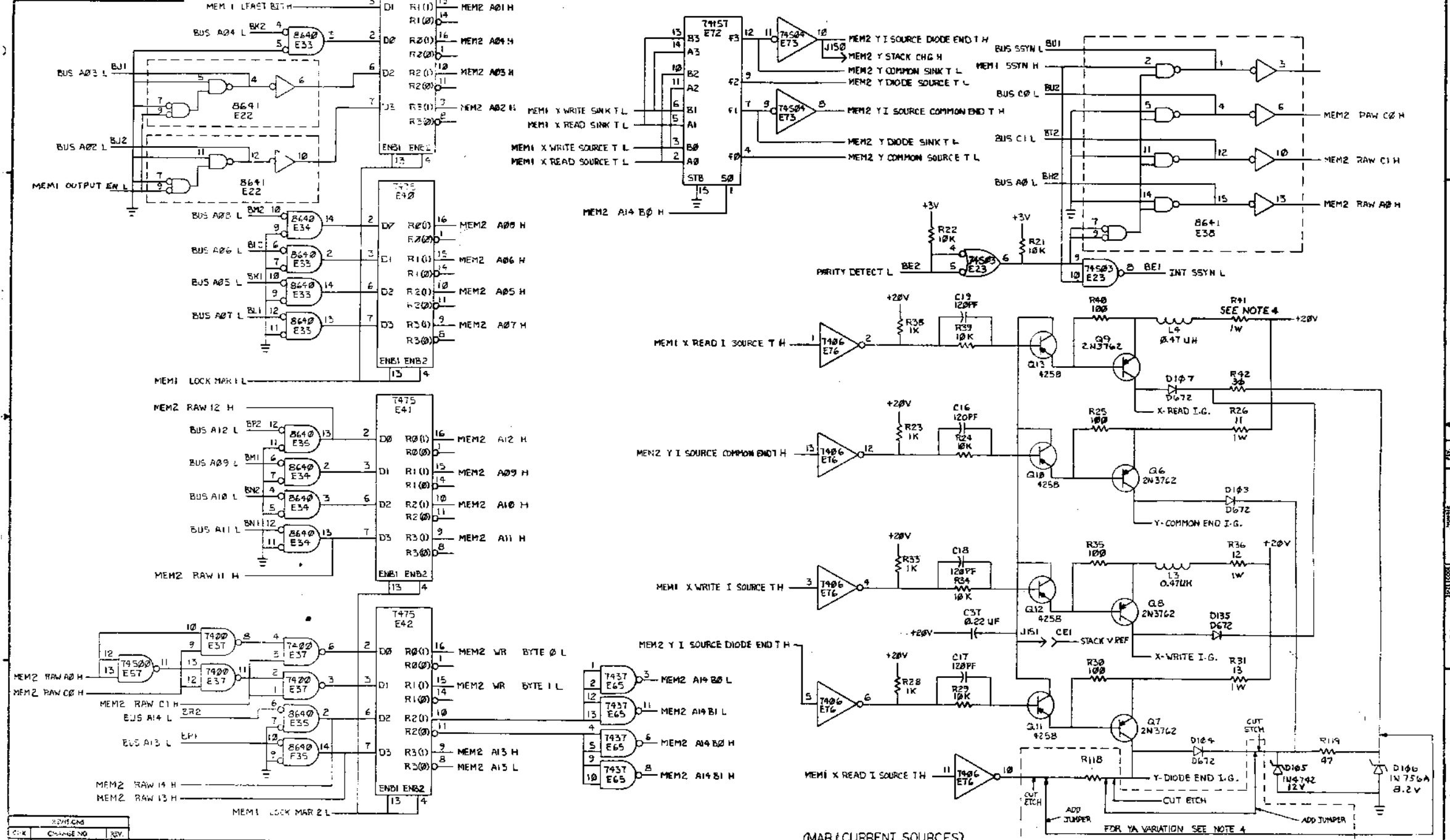


REVISIONS		
CHK	CHANGE NO	REV.

TITLE		NUMBER		REV.	
CK X18 MEMORY ELECTRONICS (MEM1)		D CS 6652-0-1		E	
SCALE		SHEET 5 OF 11		DIST.	

349

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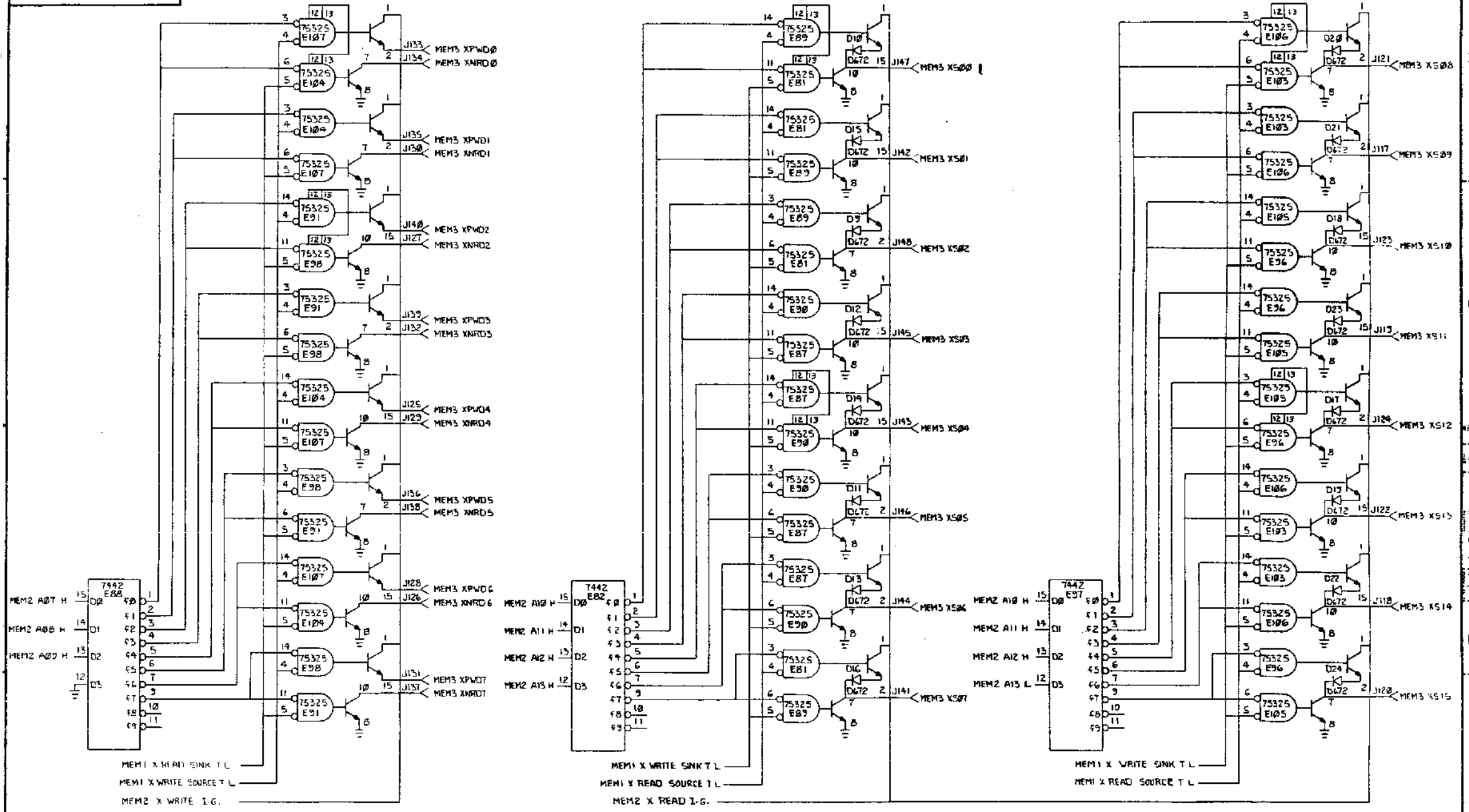
REV.	CHANGE NO.	DATE

(MAR CURRENT SOURCES)

TITLE	16Kx18 MEMORY ELECTRONICS (MEM2)	SHEET	4 OF 11	NUMBER	G652-0-1	REV.	F
SCALE		SHEET		DIST.			

350

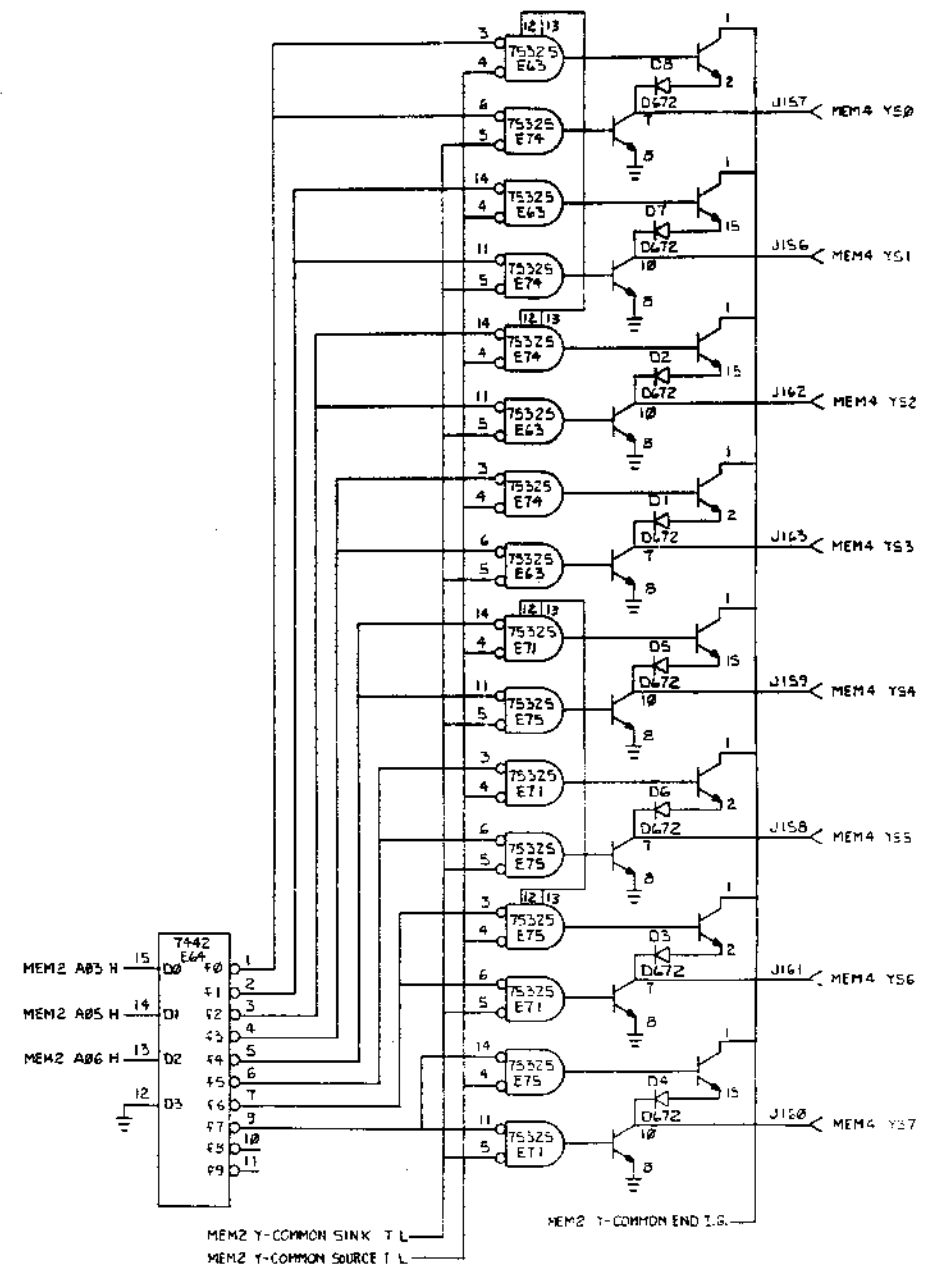
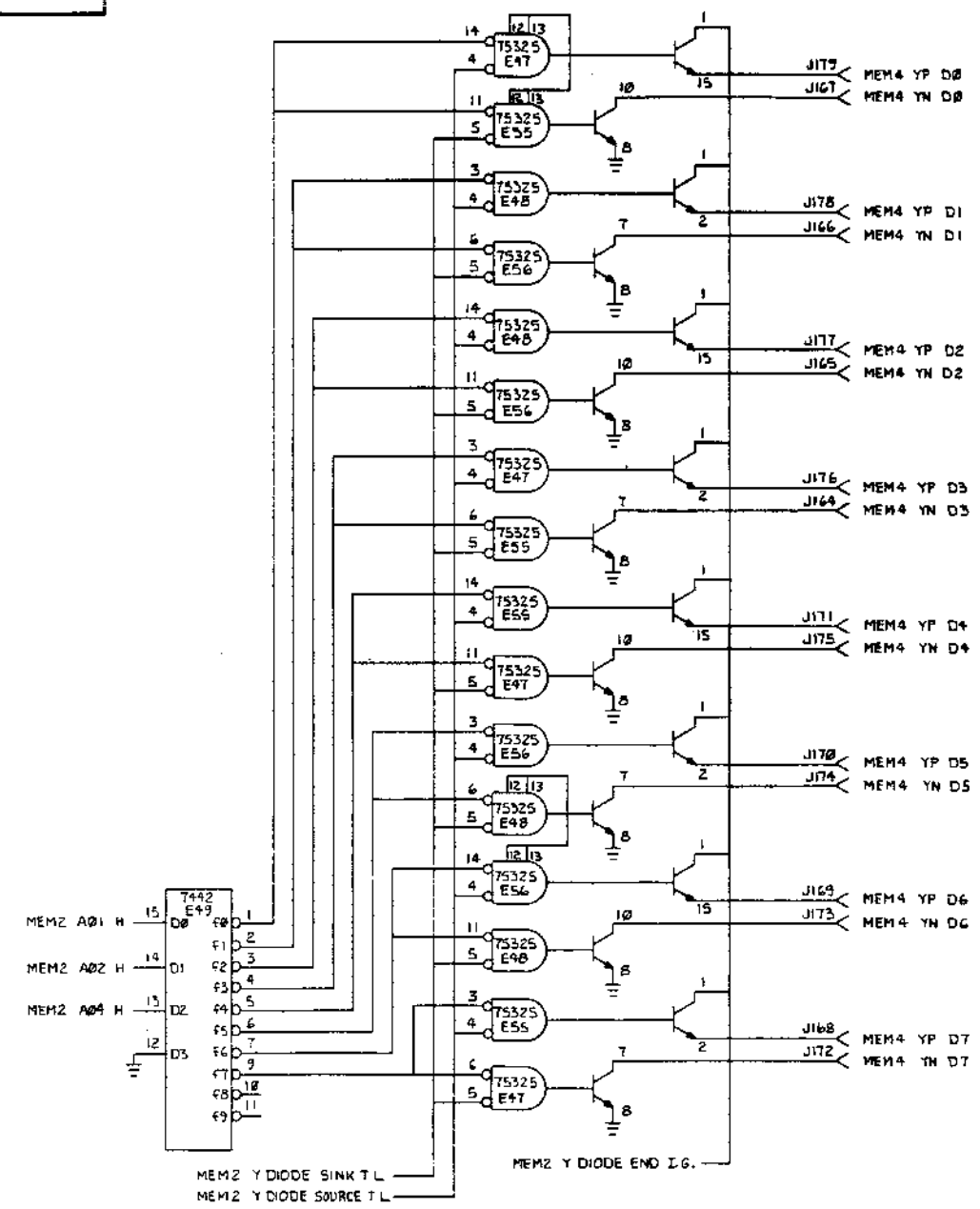
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REVISIONS		
CHK	CHANGE NO.	REV.

(X DRIVE)
 TITLE: 16K X 18 MEMORY ELECTRONICS (MEM3)
 SIZE: DCS
 NUMBER: G652-0-1
 REV: F
 SCALE: SHEET 5 OF 11

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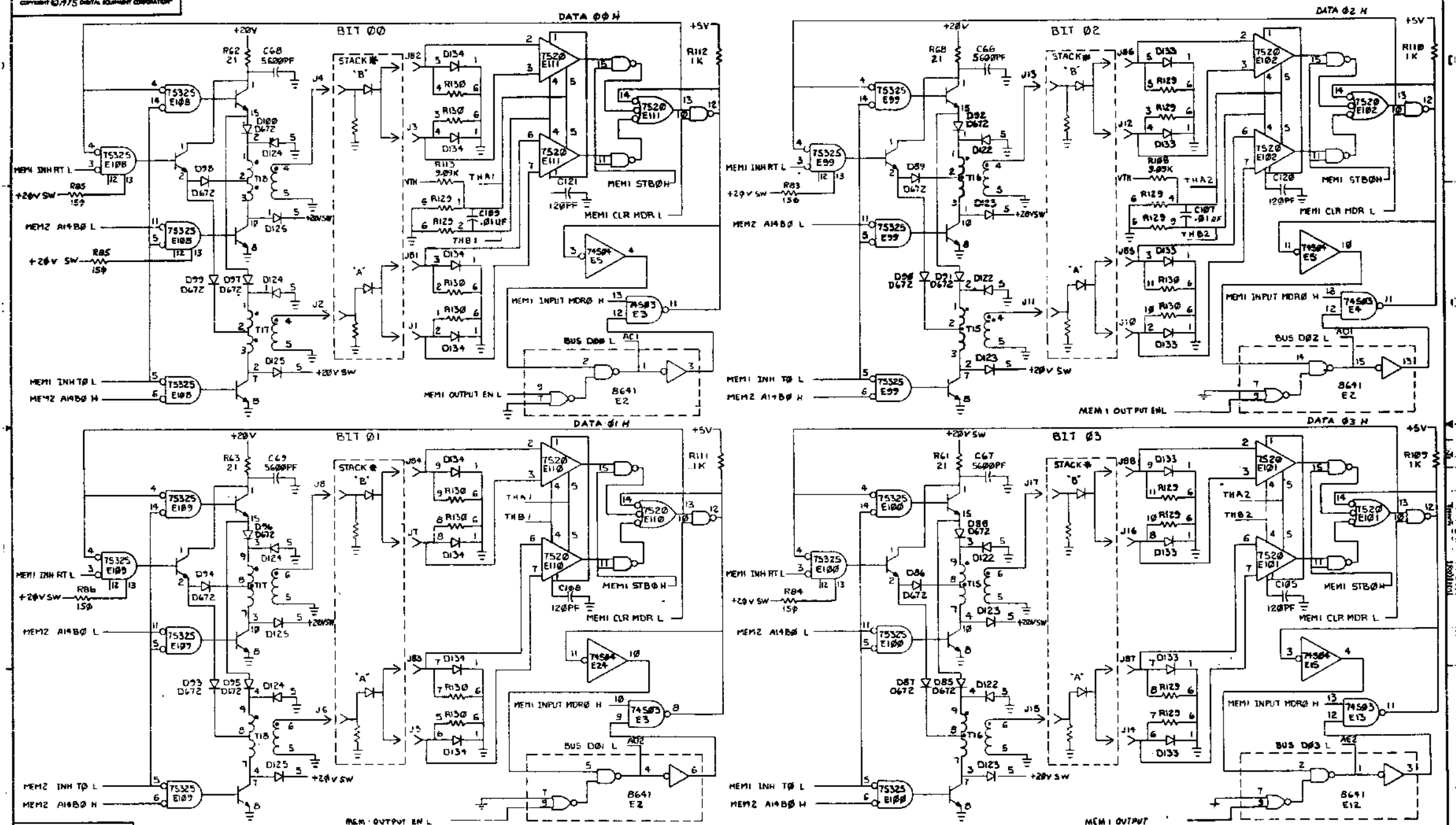
REVISIONS		
CHK	CHANGE NO.	REV.

(Y DRIVE)
TITLE 16Kx18 MEMORY ELECTRONICS (MEM4)
SCALE 1:1 SHEET 6 OF 11
SIZE CODE DCS
MEMBER NO. G652-0-1
REV. F

358

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* MOUNTED ON H222 BD:



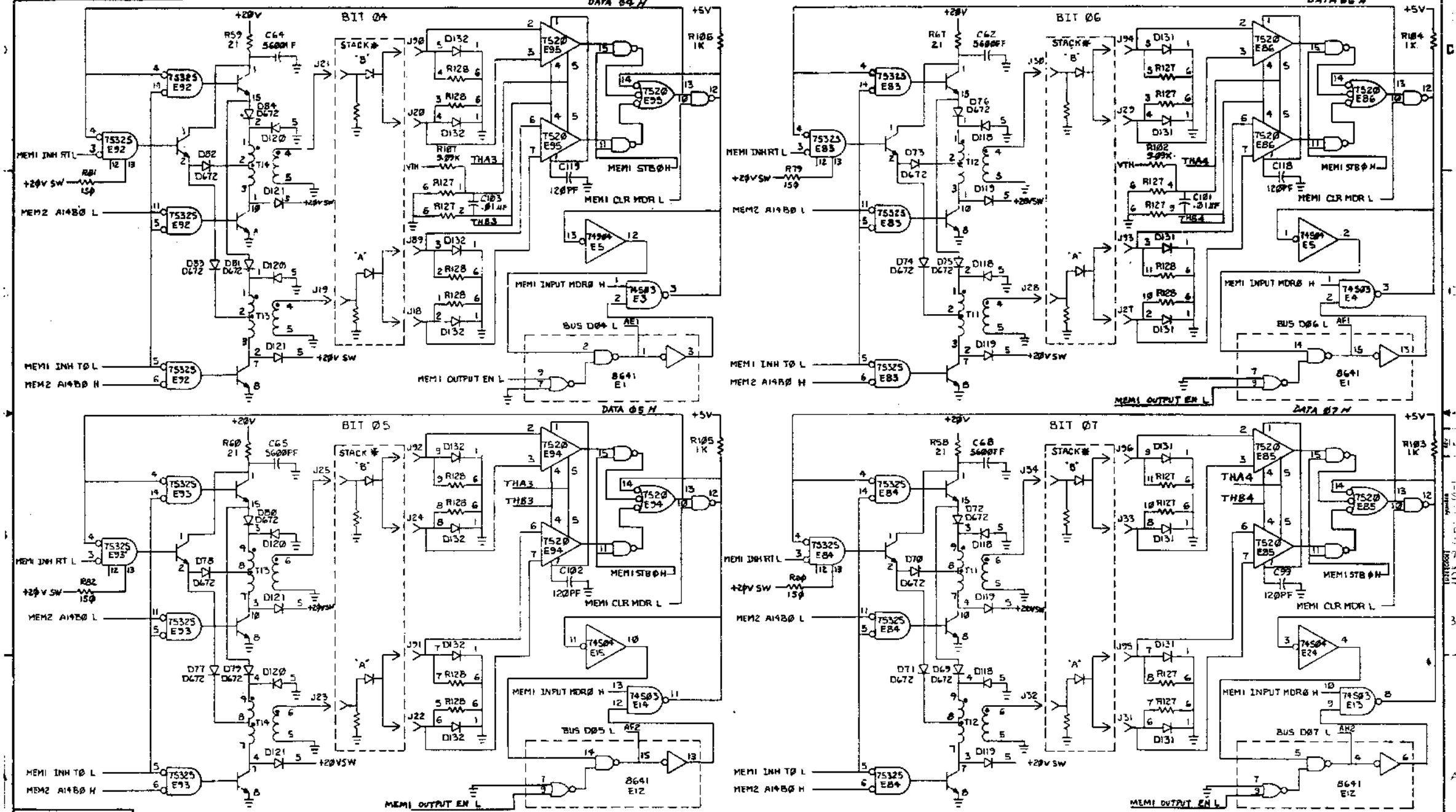
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE/CODE	NUMBER	REV.
16K x 18 MEMORY ELECTRONICS		DCS	G652-0-1	F
SCALE	SHEET	OF	DIST.	
	7	11		

353

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MOUNTED ON H222 BD

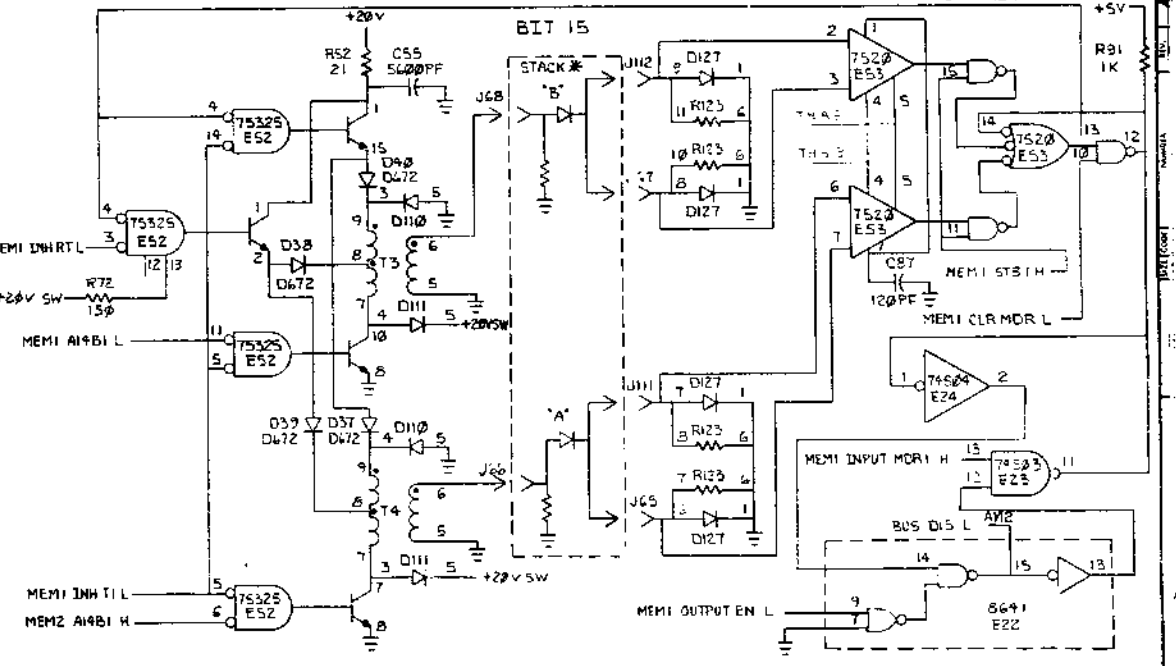
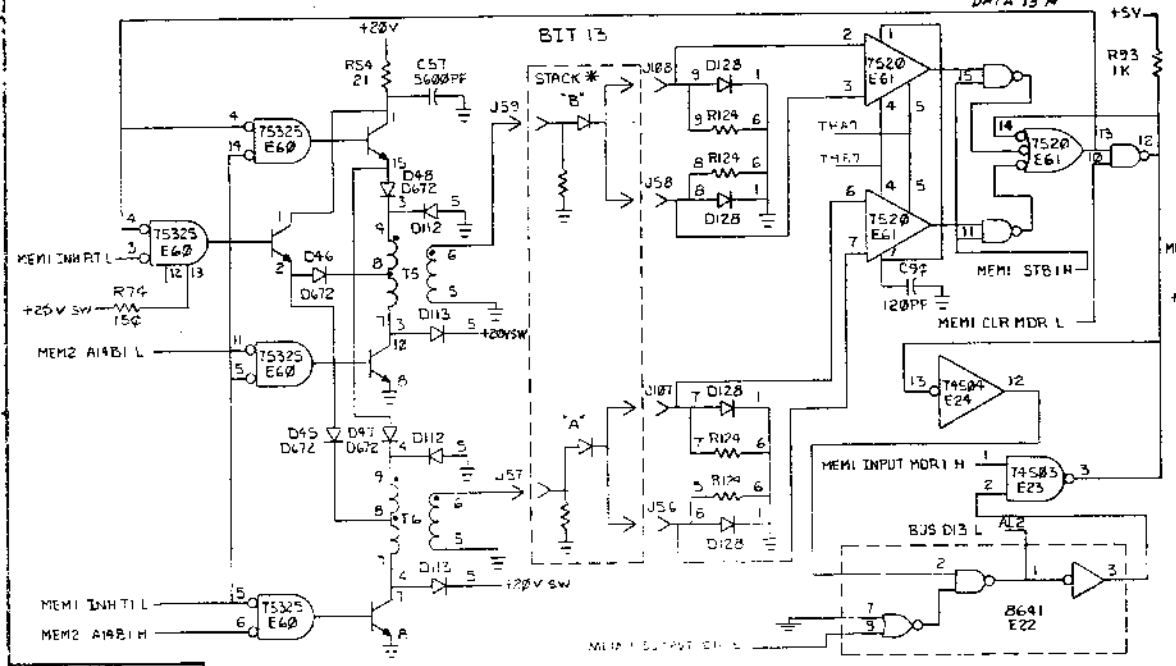
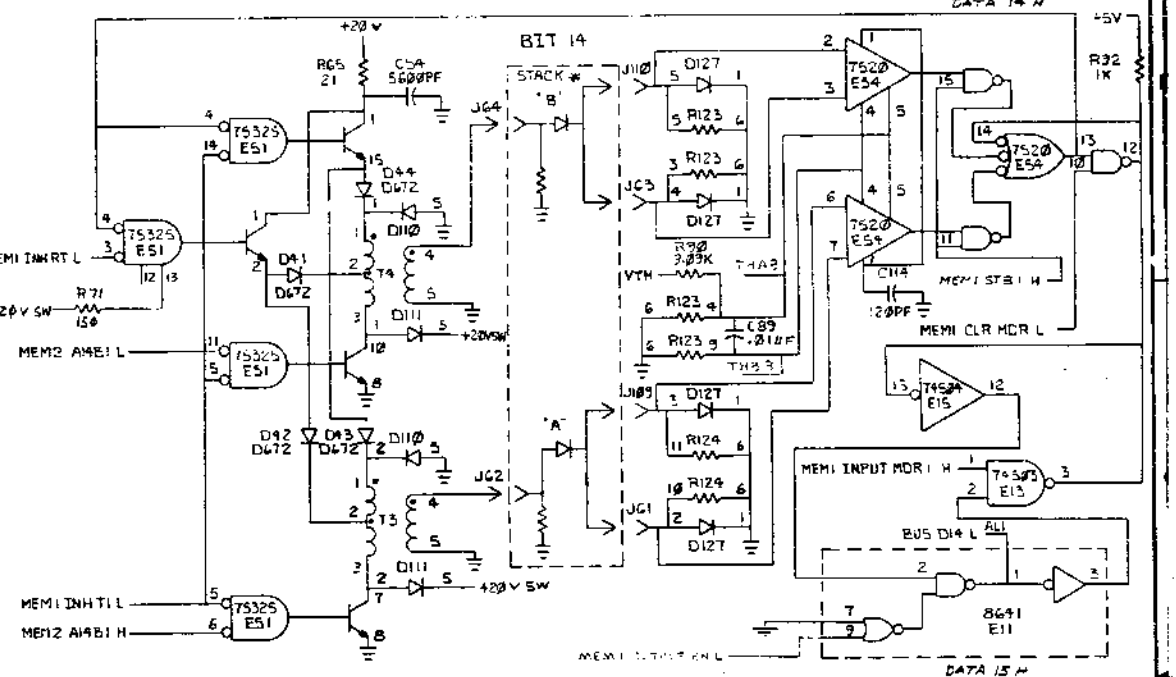
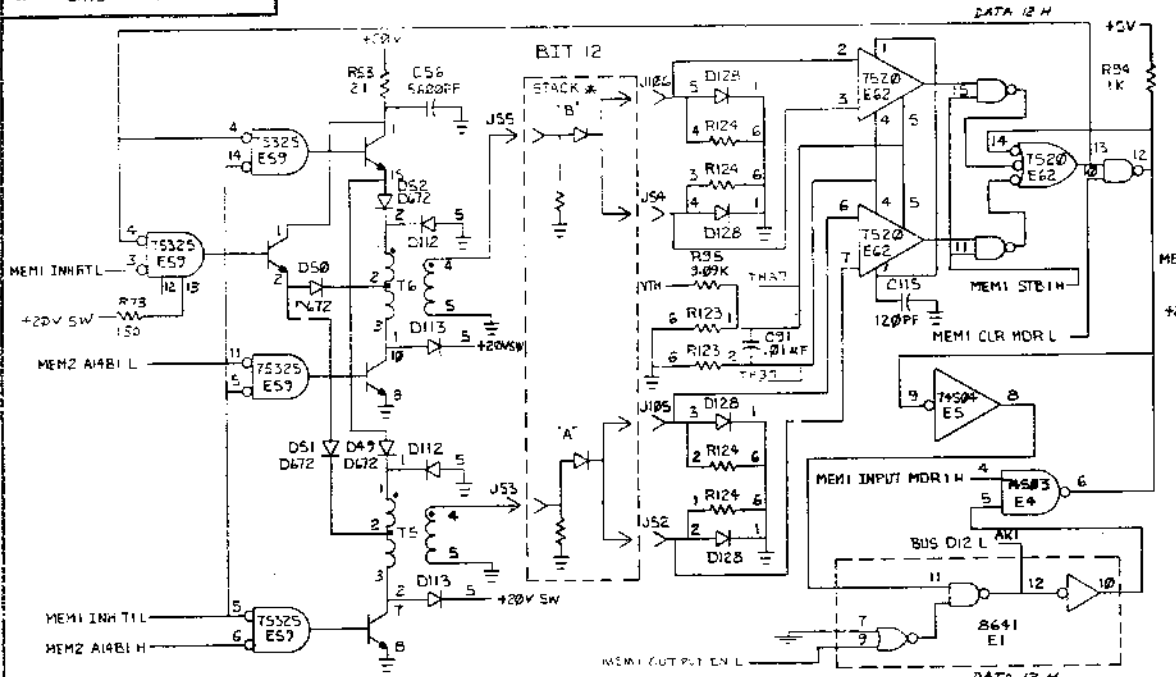


REVISIONS		TITLE		SIZE/DOOR	NUMBER	REV.
CHK	CHANGE NO.	REV.				
			16Kx18 MEMORY ELECTRONICS (MEM6)	DCS	G652-0-1	F
			(SENSE INHIBIT BITS 4-7)			
			SHEET 6 OF 11			

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* MOUNTED ON 4222 BD



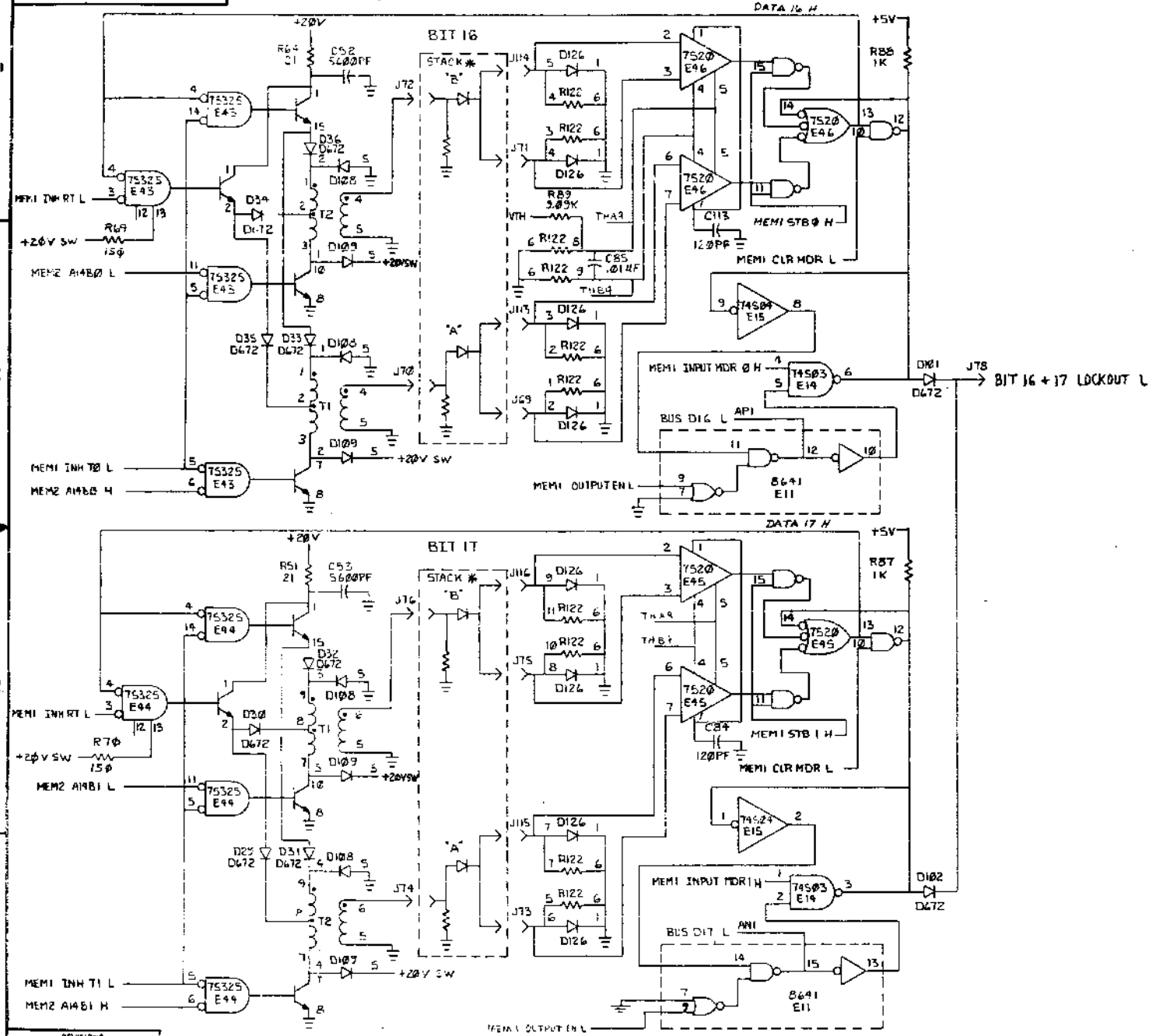
REVISIONS		
CHK	CHANGE NO.	REV.

(SENSE & INHIBIT BITS 12-15)
 TITLE: 6Kx18 MEMORY ELECTRONICS
 SIZE CODE: DCS
 NUMBER: 6652-0-1
 REV: F
 SCALE: 1/8" = 1" SHEET 10 OF 11

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* MOUNTED ON H222 BD.



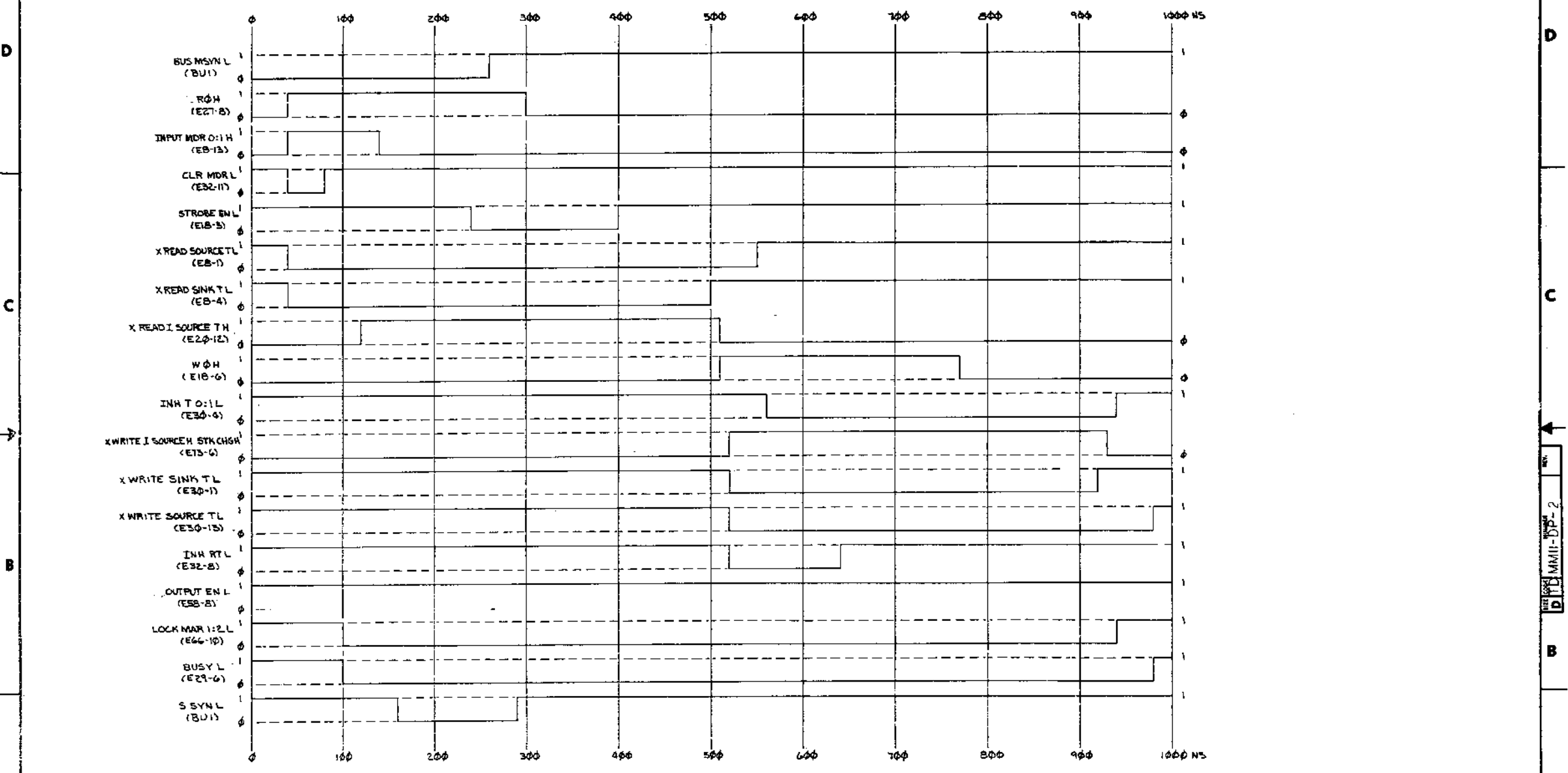
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		6Kx18 MEMORY		SIZE/CODE		NUMBER		REV.	
ELECTRONICS		(MEM9)		DCS		G652-0-1		F	
SCALE	SHEET	OF	DIST.						

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DAT 0



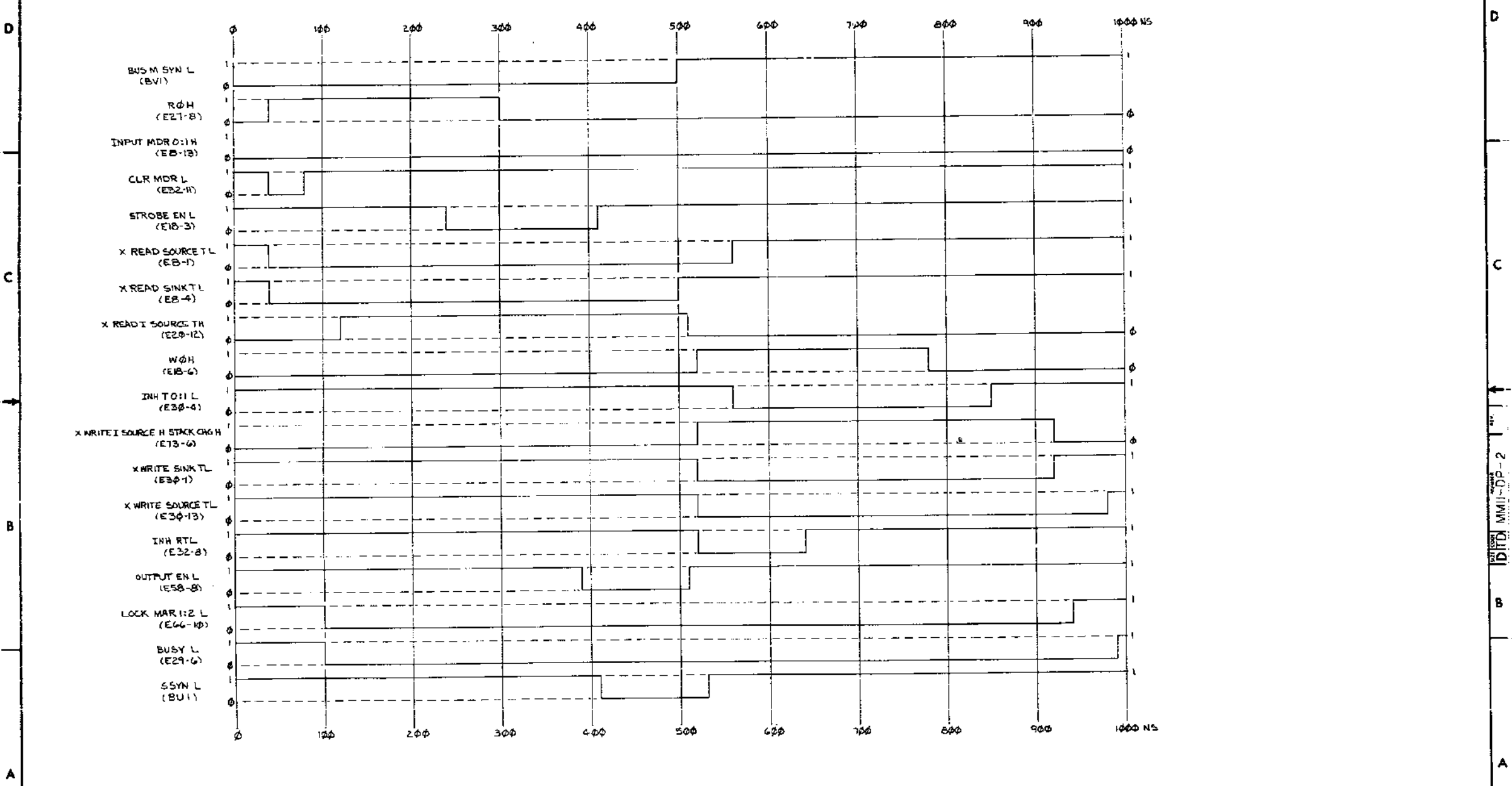
REV.	
CHANGE NO.	
DATE	
BY	

DRN. W. LUFKIN	DATE	FIRST USED ON	Digital
CHK'D <i>[Signature]</i>	DATE	MMII-DP	
ENG. <i>[Signature]</i>	DATE	TITLE	
PROD. ENG. <i>[Signature]</i>	DATE	MMII-DP	
PROD. I.E. <i>[Signature]</i>	DATE	TIMING DIAGRAM	
NEAR HIGHER ASSY.			
B-DD-MMII-DP	SIZE	CODE	NUMBER
SCALE	D	TC	MMII-DP-2
SHEET 1 OF 2	DIS.		

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DATA



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	MMII-DP TIMING DIAGRAM	SIZE	CODE	NUMBER	REV.
SCALE	1:1	SHEET	2 OF 2	MMII-DP-2	

SEC FORM NO. 8

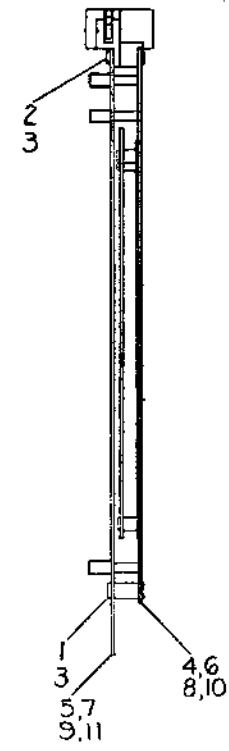
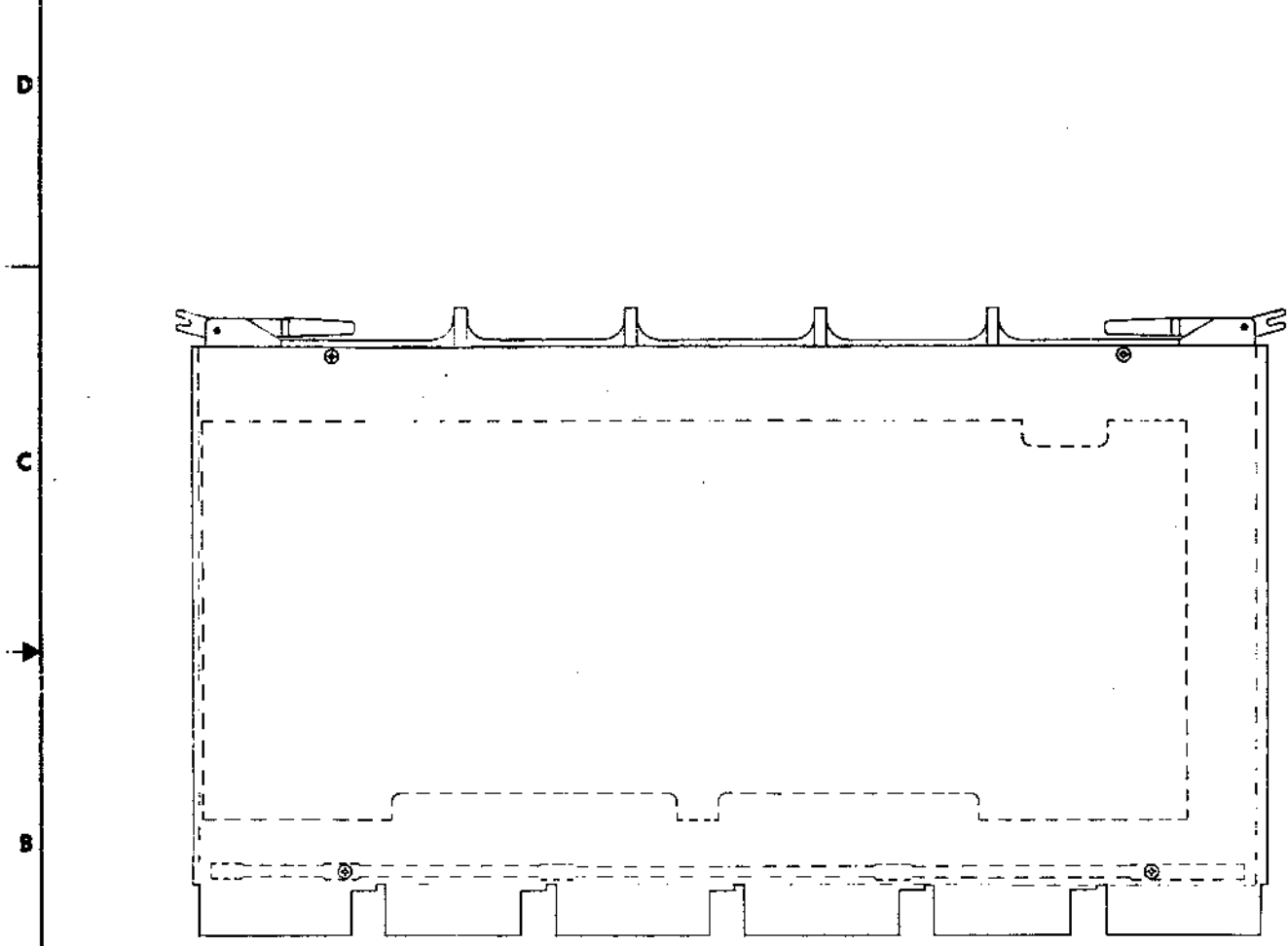
359

8 7 6 5 4 3 2 1

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LEGEND			
VARIATION	DESCRIPTION	DWG. NUMBER	
MMII-D WILL INCLUDE MODULE COMBINATION C OR D	D	GG52-1A 16K X 18 CORE MEM. H222-YB STACK BOARD (16 BIT)	D-CS-GG52-0-1 D-UA-H222-B-0
	C	GG52 16K X 18 CORE MEM. H222-B STACK BOARD (16 BIT)	D-CS-GG52-0-1 D-UA-H222-B-0
MMII-DP WILL INCLUDE MODULE COMBINATION A OR B	B	GG52-1A 16K X 18 CORE MEM. H222-YA STACK BOARD (18 BIT)	D-CS-GG52-0-1 D-UA-H222-A-0
	A	GG52 16K X 18 CORE MEM. H222-A STACK BOARD (18 BIT)	D-CS-GG52-0-1 D-UA-H222-A-0

NOTE:
 1. MMII-DP MEMORY MODULE ASSEMBLY (16K X 18 BIT) MAY BE SUBSTITUTED FOR MMII-D MODULE ASSEMBLY (16K X 16 BIT).
 2. GG52-YA'S WILL NOT OPERATE WITH H222'S.
 3. H222-YA'S & YB'S WILL NOT OPERATE WITH GG52'S.



QTY	DESCRIPTION	PART NO.	ITEM NO.
4	WASHER LOCK #2 INT TOOTH	9006631-00	6
2	SCR. PAN HD SS #2-56 X .31 LG	9006002-01	5
2	SCR. PAN HD SS #2-56 X .19	9006000-01	4
1	16K X 18 CORE MEMORY (GG52)	D-CS-GG52-0-1	3
1	H222 STACK BOARD (16 BIT)	D-UA-H222-B-0	2
1	H222 STACK BOARD (18 BIT)	D-UA-H222-A-0	1

REV.	DATE	BY	CHKD
A	11/22/77	D. SHELTER	
DRAWN BY: S. H. 11/22/77			

MMII-D	DESCRIPTION	PART NO.	ITEM NO.
MMII-DP	DESCRIPTION	PART NO.	ITEM NO.
DIMENSIONS (IN) UNLESS OTHERWISE SPECIFIED			
ANGLE	ACCURACY	TOLERANCE RANGE	
10°	±.005	0.000	0.000
SURFACE	FINISH	0.000	0.000
QUALITY	IN	0.000	0.000
QUANTITY & VARIATION	DESCRIPTION	PART NO.	ITEM NO.
THIRD ANGLE PROJECTION	DRW. BY: S. H. 11/22/77	FIRST USED ON	MMII-DP
REMOVE BURRS AND DEBURR CORNERS	ENGR. BY: S. H. 11/22/77	TITLE	MMII-DP MEMORY MODULE ASSEMBLY
SEE PARTS LIST	SCALE: 1/1	DWG. NO.	D-UA-MMII-DP-0
		REV.	A

360

CUSTOMER PRINT SET		ELECTRICAL				CUSTOMER PRINT SET		MECHANICAL					
	MFG SET	FIND NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE		MFG SET	FIND NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
		B-DD-H222-Ø		2	DRAWING DIRECTORY				D-UA-H222-A-0		1	H222 CORE MEMORY STACK ASSY	
		D-CS-5411554-0-1			H222 STACK BOARD				D-PA-1211725-0-0		1	STIFFENER, FINGER END	
		E-IA-7011661-0-0		2	CORE PLANE WIRING ASSEMBLY				D-PS-1211726-0-0		1	STIFFENER, HANDLE END	
									D-MD-5511796-0-0		1	CORE SUPPORT (16K x 16/18 BIT)	
									D-MD-5511797-0-0		1	COVER (16K X 16/18 BIT)	
									A-PL-5411554-C-C			PARTS LIST	
									D-AH-5411554-C-5			MEMORY STACK SUB	
CUSTOMER PRINT SET CODES						TITLE		SIZE CODE		NUMBER		REV	
X = PRINT OF DOCUMENT INCLUDED IN PRINT SET C = INCLUDES ALL PRINTS INDICATED ON DOCUMENT S = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED						H222 MEMORY STACK		3 DD		H222-Ø		B	
						SHEET 2 OF 2							

DRB 108



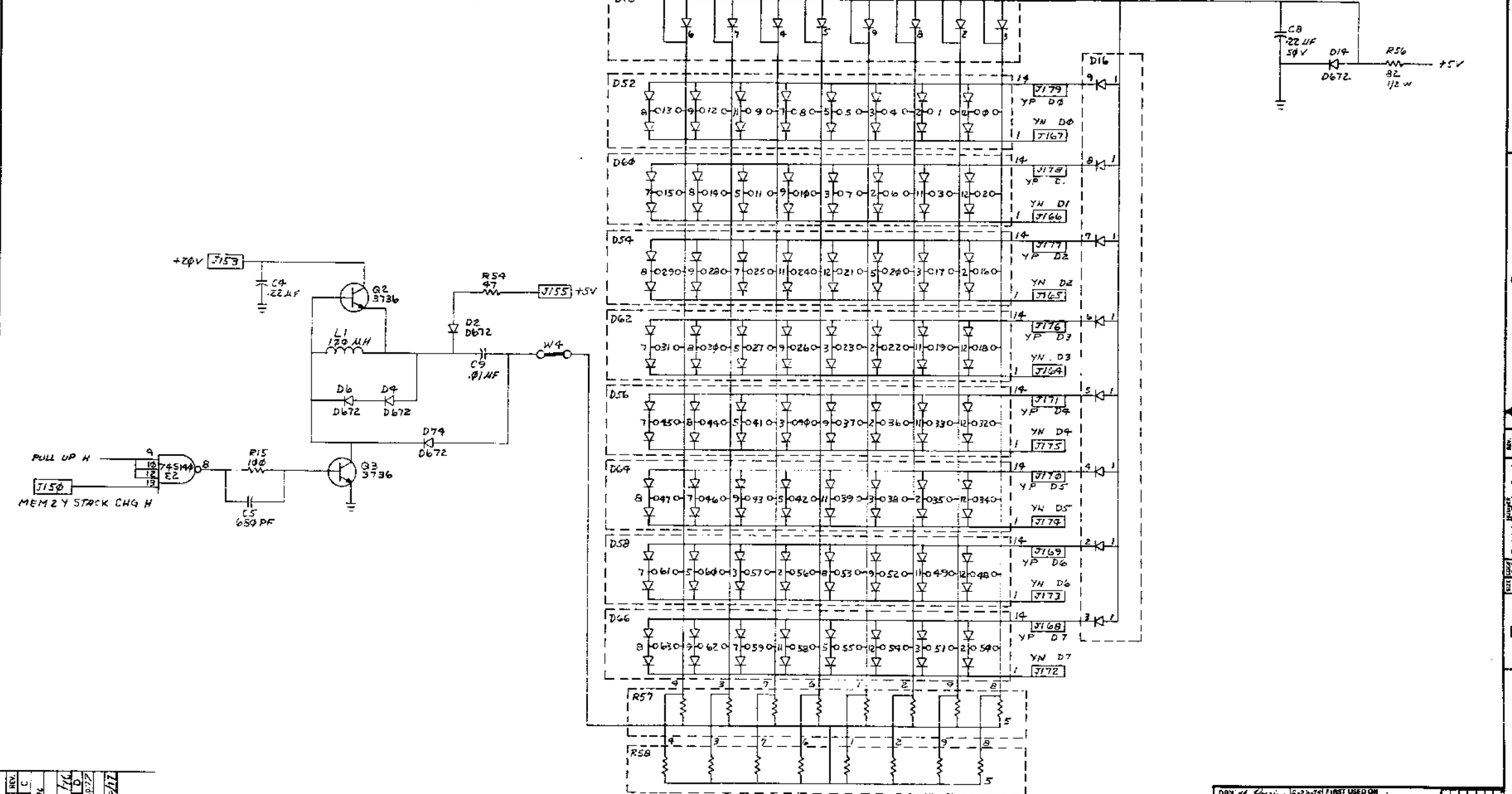
EN-01062-28-16 R972-(325)

362

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NOTE:
 PREFIX FOR J156-J159 IS MEMA.

"Y" DIODE MATRIX



REV. C	DATE 12/11/75
DESIGNER: J. S. MILLER	CHECKED: J. S. MILLER
DRW. NO. 22	APP. NO. 3/20/77

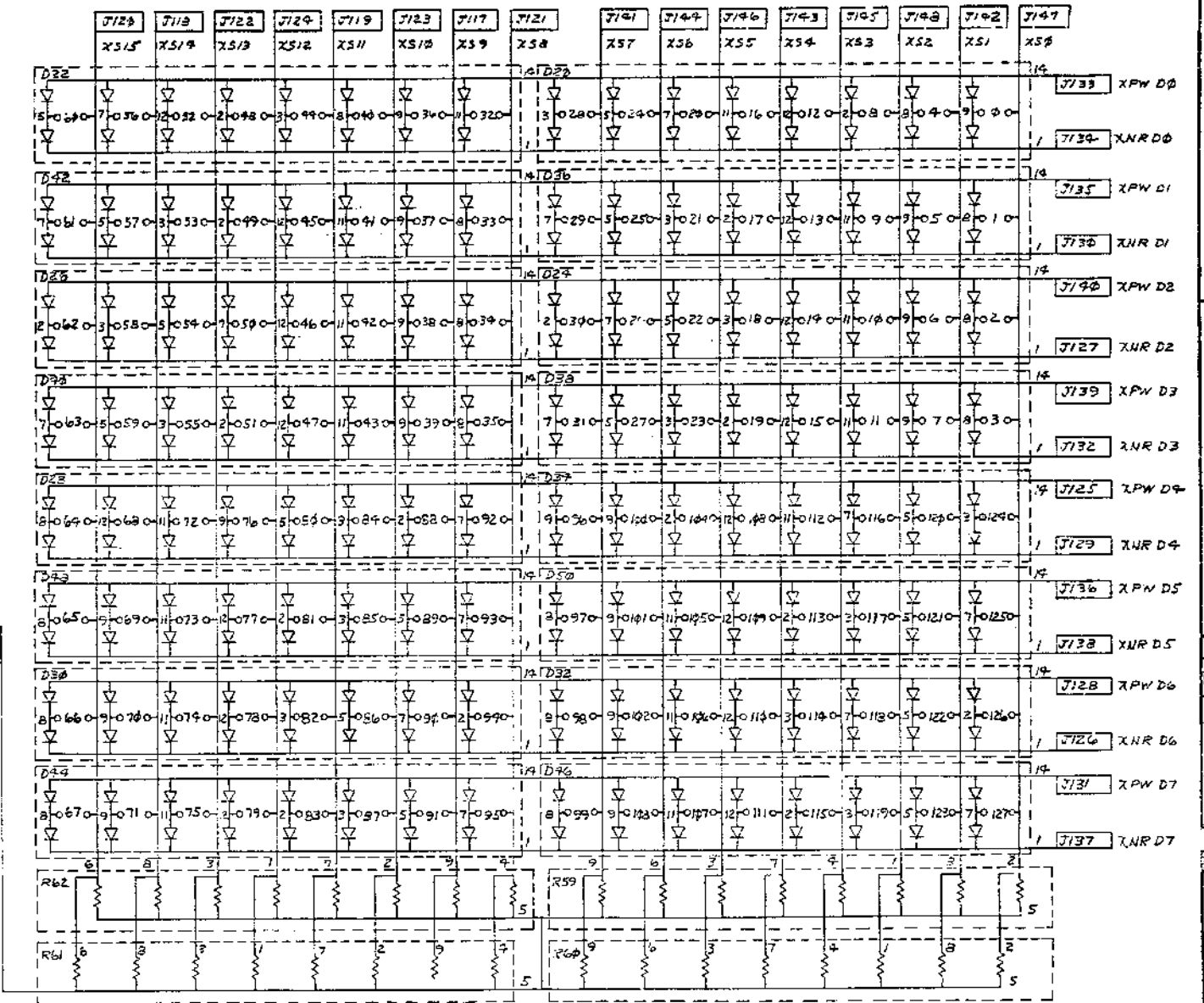
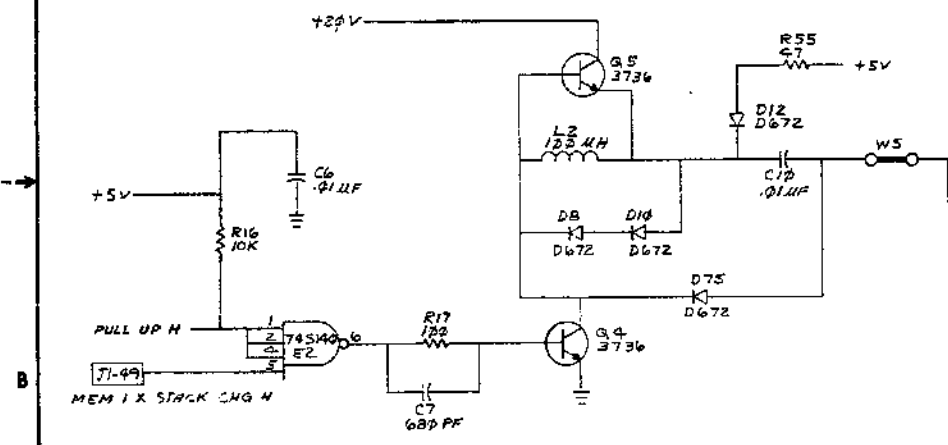
DATE 12/11/75	FIRST USED ON	MMID/DP	Digital
CHKD: J. S. MILLER	PROJ. ENG: J. S. MILLER	TITLE	
16K X 16, 18		MEMORY STACK	
SCALE 1/1	SIZE CODE DCS	NUMBER 5411554-C-1	REV. D
SHEET 1	OF 3		

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'X' DIODE MATRIX

NOTE:
PREFIX FOR J117-J148 IS MEM3.

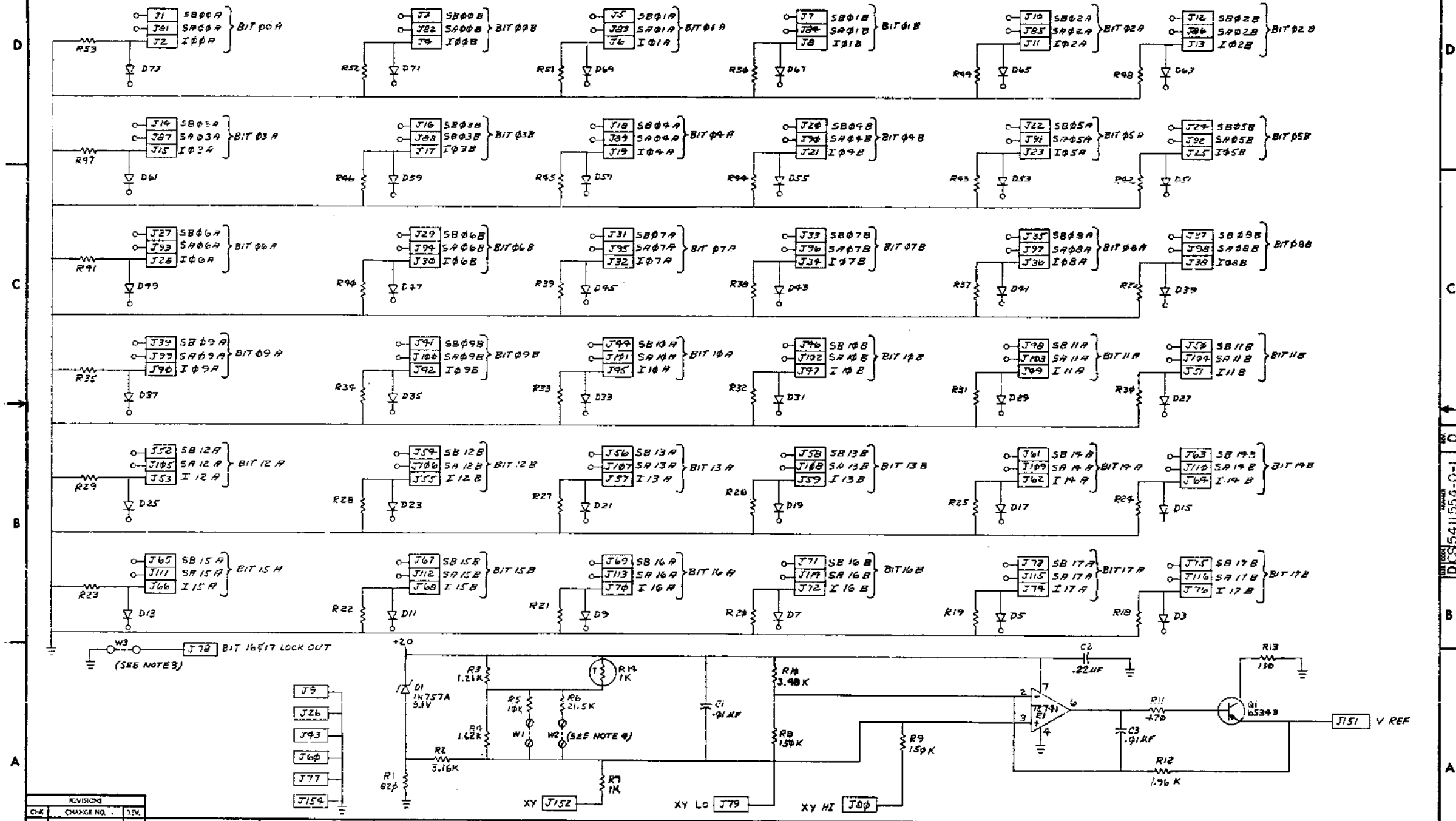


DATE	CHANGE NO.	BY	TITLE	SIZE/CODE	NUMBER	REV.
			16K X 16, 18 MEMORY STACK	DCS	5411554-0-1	D
			SCALE	SHEET 2 OF 3	DIST.	

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- NOTES:
- R18 THRU R53 ARE 1K, 1/4W ±5%.
 - UNLESS OTHERWISE SPECIFIED, ALL DIODES ARE D672.
 - W3 MUST BE INSTALLED FOR A 16 BIT MEMORY -- H222B, OR H222A USED WITHOUT A PARITY CONTROLLER (M7850).
 - W1 & W2 ARE USED TO ADJUST VREF.



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE: 16K X 16, 18 MEMORY STACK
 NUMBER: DCS 5411554-0-1
 SCALE: 1/1
 SHEET: 3 OF 3
 DWT:

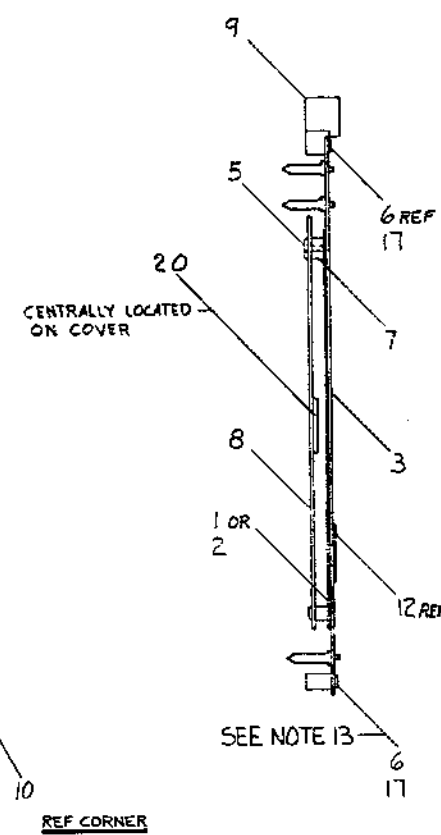
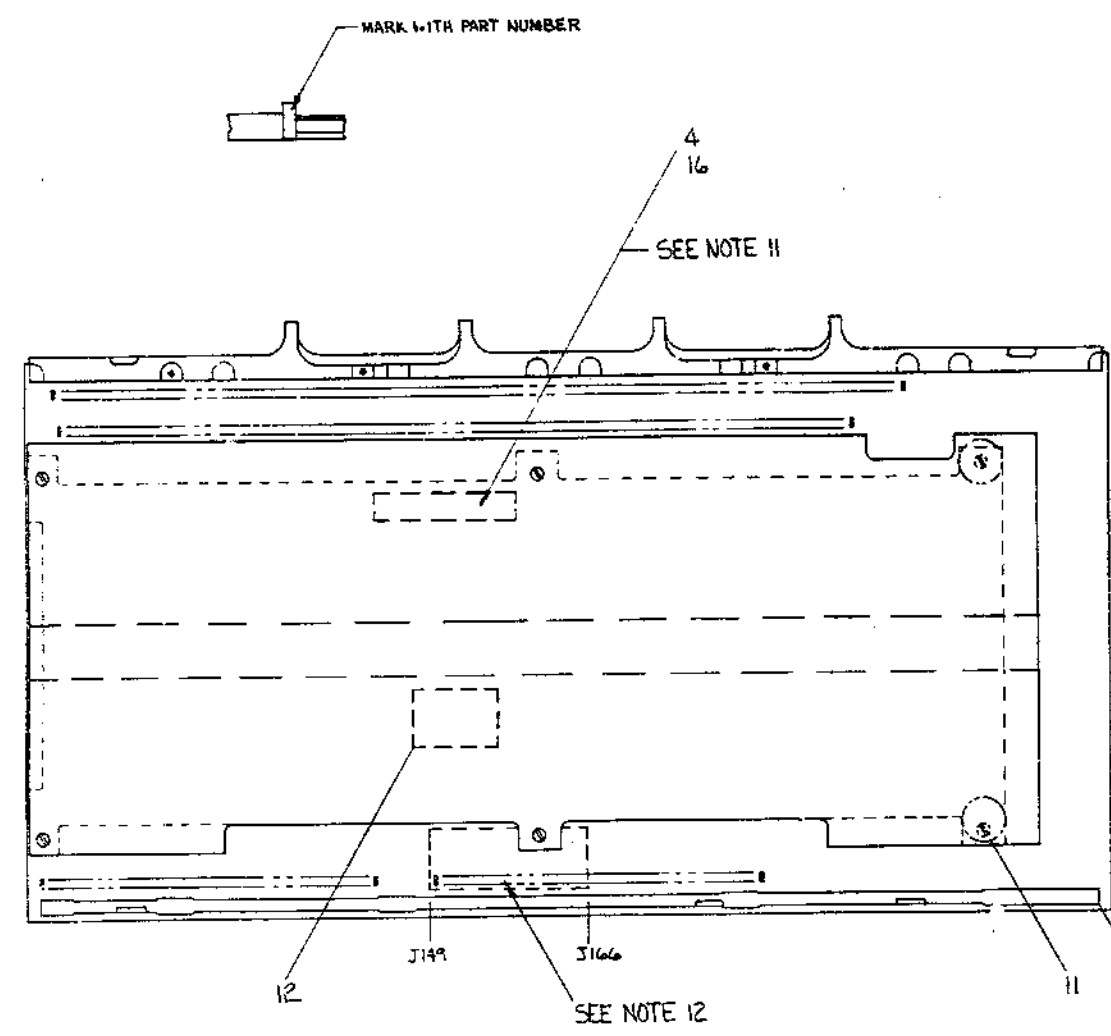
365

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LEGEND			
NUMBER	NUMBER	VARIATION	USED ON
H222-YA	H222-A	16K X 16 BIT	MM11-DP
H222-YB	H222-B	16K X 16 BIT	MM11-D

0-2-22 CH 10 2

- NOTES:**
- BOND ITEM 1 (CORE PLANE) TO ITEM 3 (STACK BOARD) WITH ITEM 4 (ADHESIVE).
 - SWAGE ITEM 1 (CORE PLANE) AND ITEM 3 (STACK BOARD) TOGETHER WITH ITEM 7 (STANDOFF).
 - USE ITEM 5 (PROTECTIVE COATING) TO COAT ALL MAGNETIC WIRE TERMINATIONS AFTER ELECTRICAL TEST. (REF E-IA-701661-0-0)
 - BOND TWISTED CABLES TO ITEM 1 (CORE PLANE) WITH ITEM 6 (ADHESIVE). SEE E-IA-701661-0-0.
 - BOND KEY DRIVE LOOPS IN PLACE WITH ITEM 13 (ADHESIVE). SEE E-IA-701661-0-0 NOTES.
 - REFER TO E-IA-701661-0-0 WHEN SOLDERING WIRE TERMINATIONS TO ITEM 3 (STACK BOARD).
 - ASSEMBLE ITEMS 9 & 10 (STIFFENERS) TO ITEM 3 (STACK BOARD) USING ITEMS 16 & 17.
 - ATTACH ITEM 8 (COVER) TO ITEM 3 (STACK BOARD) USING ITEMS 15 (NYLON SCREWS).
 - APPLY ITEM 11 (WARRANTY SEAL) WHERE SHOWN.
 - APPLY ITEM 12 (NAME PLATE) TO SIDE 2 OF ITEM 3 (STACK BOARD) AS SHOWN.
 - MARK ITEM 3 (STACK BOARD) ON SIDE 2 WITH DEC PART NUMBER, SEQUENTIAL SERIAL NUMBER, AND CIRCUIT SCHEMATIC REVISION USING ITEM 4 (INK) AND ITEM 14 (EPOXY). EXAMPLE: H222-A-001-CS-B.
 - TRIM AMP POSTS AND COMPONENT LEADS TO BE IN THIS AREA OF SIDE 2.
 - INSTALL ITEM 17 (LOCKWASHER) TORQUE HAND TIGHT.



QTY	DESCRIPTION	ENG. PART NO.	ITEM NO.
1	TAPE FOAM ADHESIVE 154X35IDE	9008456-01	20
1	CORE PLANE WIRING ASSY	E-IA-701661-3-B	19
1	CORE PLANE WIRING ASSY	E-IA-701661-2-B	18
8	WASHER, LOCK #2 INT TOOTH	4006631-00	17
1/4	EPOXY	4901082-00	16
1/4	PROTECTIVE COATING (F145)	4901083-00	15
1/4	ADHESIVE (RTV 3145)	4901084-00	14
1/4	ADHESIVE (RTV 3140)	4901085-00	13
1	NAME PLATE	4006631-00	12
2	WARRANTY SEAL		11
1	STIFFENER, FINGER END	D-PS-21125-0-0	10
1	STIFFENER, HANDLE END	D-PS-21126-0-0	9
1	COVER	D-MD-551791-0-0	8
6	STANDOFF .25 DIA X .17 LG	14009677-00	7
8	SCR, PAN HD SS #2-36X.19	4006000-01	6
4	SCR, SLT BDR HD NYLON #4-40 X .19	14009233-04	5
1/4	INK, BLACK	4901084-00	4
1	H222 STACK BOARD	541554	3
1	CORE PLANE WIRING ASSY	E-IA-701661-1-0	2
1	CORE PLANE WIRING ASSY	E-IA-701661-0-0	1

DESCRIPTION		ENG. PART NO.		ITEM NO.
H222-YB	H222-B	H222-A		

THIRD ANGLE PROJECTION

REMOVE BURRS AND CHAMFER EDGES

DO NOT SCALE DIMS

SEE PARTS LIST

FINISH

DATE: 11/17/72

DESIGNED BY: [Signature]

ENG. CHECKED BY: [Signature]

PROJ. ENG. BY: [Signature]

DRW. NO. 211775

FIRST USED ON: MM11-DP

TITLE: H222 CORE MEMORY STACK ASSEMBLY

SIZE: 8 1/2 X 11

SCALE: 1:1

NUMBER: H222-3-0

REV. 5

SHEET 1 OF 1

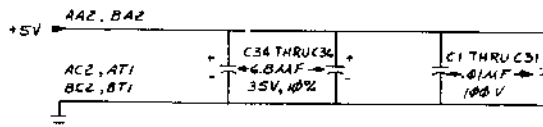
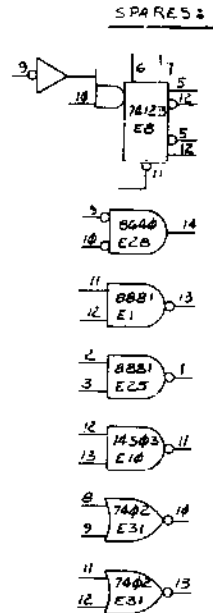
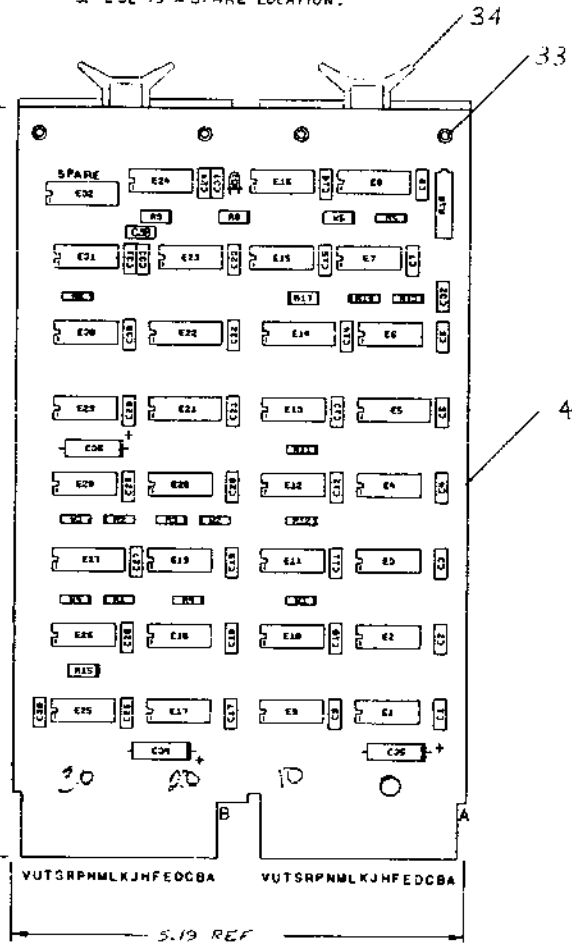
REV.	DESCRIPTION	DATE
1	ISSUED FOR MANUFACTURE	11/17/72
2	REVISION	11/17/72
3	REVISION	11/17/72
4	REVISION	11/17/72
5	REVISION	11/17/72

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NOTES:

1. ALL RESISTORS 1/4W, 5% UNLESS OTHERWISE NOTED. ALL CAPACITORS ARE 100V, 20% UNLESS OTHERWISE NOTED.
2. JUMPER CONTROL OPERATIONS AS FOLLOWS: WI THRU W4 SELECT CSR ADDRESS, W5 CAPACITOR FOR S SYN DLY, NOT USED.
3. E32 IS A SPARE LOCATION.



REF	DESCRIPTION	PART NO	QTY	
REF	CIRCUIT SCHEMATIC	D-CS-M7850-0-1	REF	
REF	X-Y COORDINATE HOLE LOCATION	K-CO-M7850-0-4	1	
REF	ASSY/DRILLING HOLE LAYOUT	D-AH-M7850-0-5	2	
REF	MODULE ECO HISTORY	B-MH-M7850-0-6	3	
1	ETCHED CIRCUIT BOARD	5010651-00	4	
1	C39	CAP 470 PF, 100V, 5% (DM)	1000024-00	5
2	C33, C37	CAP 330 PF, 100V, 5% (DM)	1200023-00	4
3B	C1 THRU C32	CAP .01 MF, 100V, 20% DISC	1001610-01	7
3	C34, C35, C36	CAP 6.8 MF, 35V, 10% STANT	1005306-00	8
1	D1	DIODE, LED	1110324-00	9
5	R1 THRU R5	RES 4.7K 1/4W 5%	1300447-00	10
3	R8, R9, R15	RES 100 1/4W 5%	1300229-00	11
5	R6, R10, R11, R12, R17	RES 470 1/4W 5%	1300316-00	12
1	R13	RES 1K 1/4W 5%	1300365-00	13
1	R16	RES 10K 3/4W 20% (74P20)	1303143-10	14
1	E24	I.C. 7400	1905575-00	15
1	E30	I.C. 7430	1905578-00	16
1	E31	I.C. 7402	1903004-00	17
1	E19	I.C. 314A	1903704-00	18
1	E23	I.C. 7408	1910155-00	19
4	E1, E9, E17, E25	I.C. 8881	1903705-00	20
1	E16	I.C. 74H04	1903931-00	21
1	E27	I.C. 7485	1910224-00	22
1	E8	I.C. 74123	1910436-00	23
1	E10	I.C. 74503	1910533-00	24
1	E15	I.C. 74574	1910544-00	25
1	E21	I.C. 74174	1910652-00	26
2	E5, E22	I.C. 74157	1910655-00	27
9	E2, E3, E11, E12, E18, E20, E26, E28, E29	I.C. 8640	1911469-00	28
2	E4, E13	I.C. 745280	1911578-00	29
1	E14	I.C. 8266	1909934-00	30
2	E6, E7	I.C. 7474	1905547-00	31
4	WI THRU W4	INSULATED JUMPER	9009185-00	32
4		EYELET	9004732-00	33
2		HANDLE, FLIPCHIP (MAGENTA)	9008337-0	34

IC TYPE	QTY	LOC
8670	1	8
8266	8	16
74157	8	16
74174	8	16
74123	8	16
7485	8	16
314A	1	8
IC TYPE	QTY	LOC
GND AND BY ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTS ARE STATED ABOVE		
IC PIN LOCATIONS		

FIRST USED ON OPTION MODEL

ETCH BOARD REV. B

DATE: 2-5-75
 W. LUFKIN
 DATE: 8/1/75
 DATE: 8/1/75
 DATE: 8/1/75
 DATE: 8/1/75
 DATE: 8/1/75
 DATE: 8/1/75

digital

TITLE: PARITY MODULE

SEMICONDUCTOR CONVERSION CHART

SCALE: 1 OF 3

SHEET: 1 OF 3

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

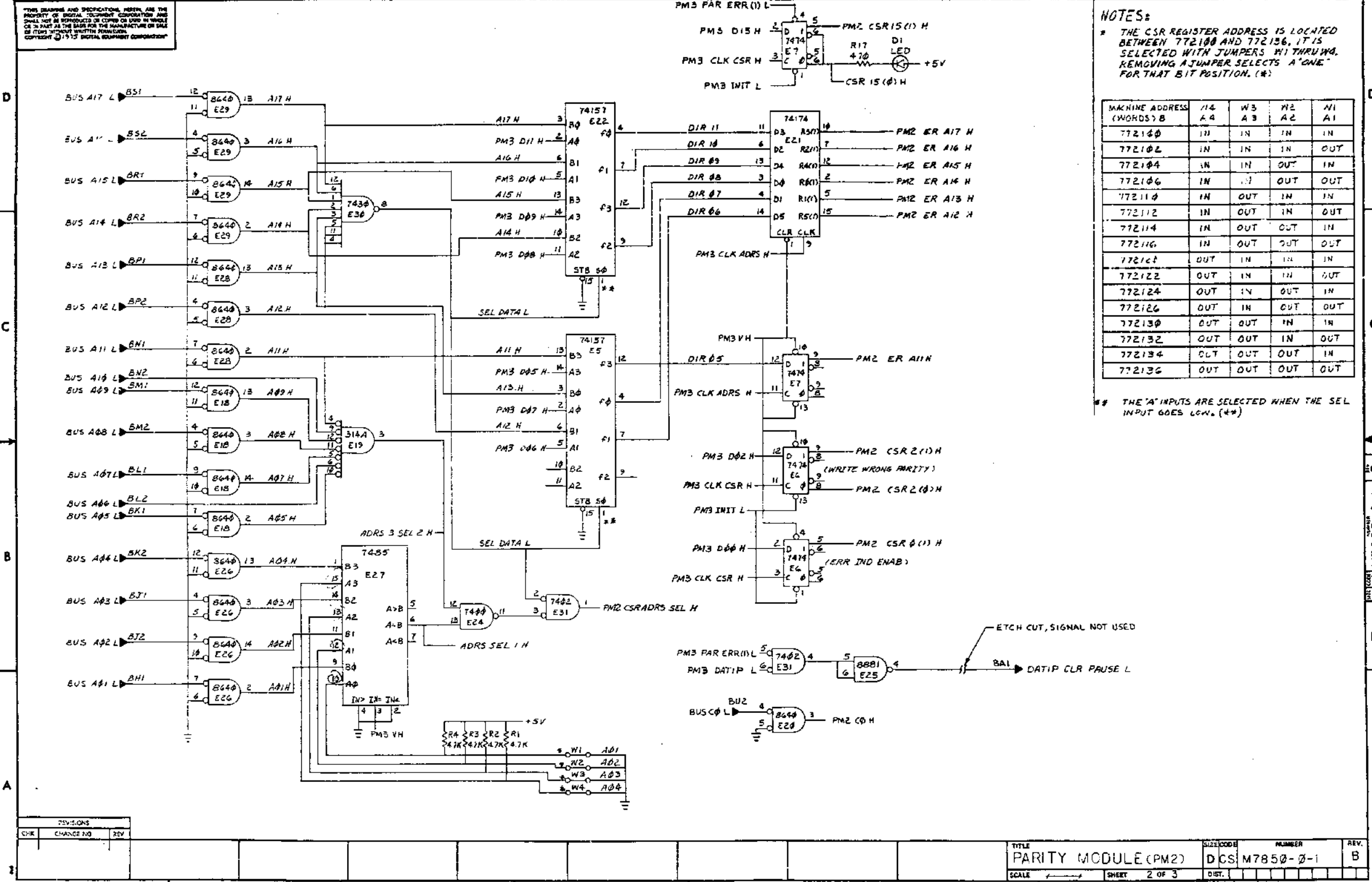
REV. B

DIST. M7850-0-1

361

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1-0-0582W SC 2



NOTES:
 * THE CSR REGISTER ADDRESS IS LOCATED BETWEEN 772100 AND 772136, IT IS SELECTED WITH JUMPERS W1 THROUGH W4. REMOVING A JUMPER SELECTS A "ONE" FOR THAT BIT POSITION. (**)

MACHINE ADDRESS (WORDS) B	A4	A3	A2	A1
772100	IN	IN	IN	IN
772102	IN	IN	IN	OUT
772104	IN	IN	OUT	IN
772106	IN	IN	OUT	OUT
772110	IN	OUT	IN	IN
772112	IN	OUT	IN	OUT
772114	IN	OUT	OUT	IN
772116	IN	OUT	OUT	OUT
772120	OUT	IN	IN	IN
772122	OUT	IN	IN	OUT
772124	OUT	IN	OUT	IN
772126	OUT	IN	OUT	OUT
772130	OUT	OUT	IN	IN
772132	OUT	OUT	IN	OUT
772134	OUT	OUT	OUT	IN
772136	OUT	OUT	OUT	OUT

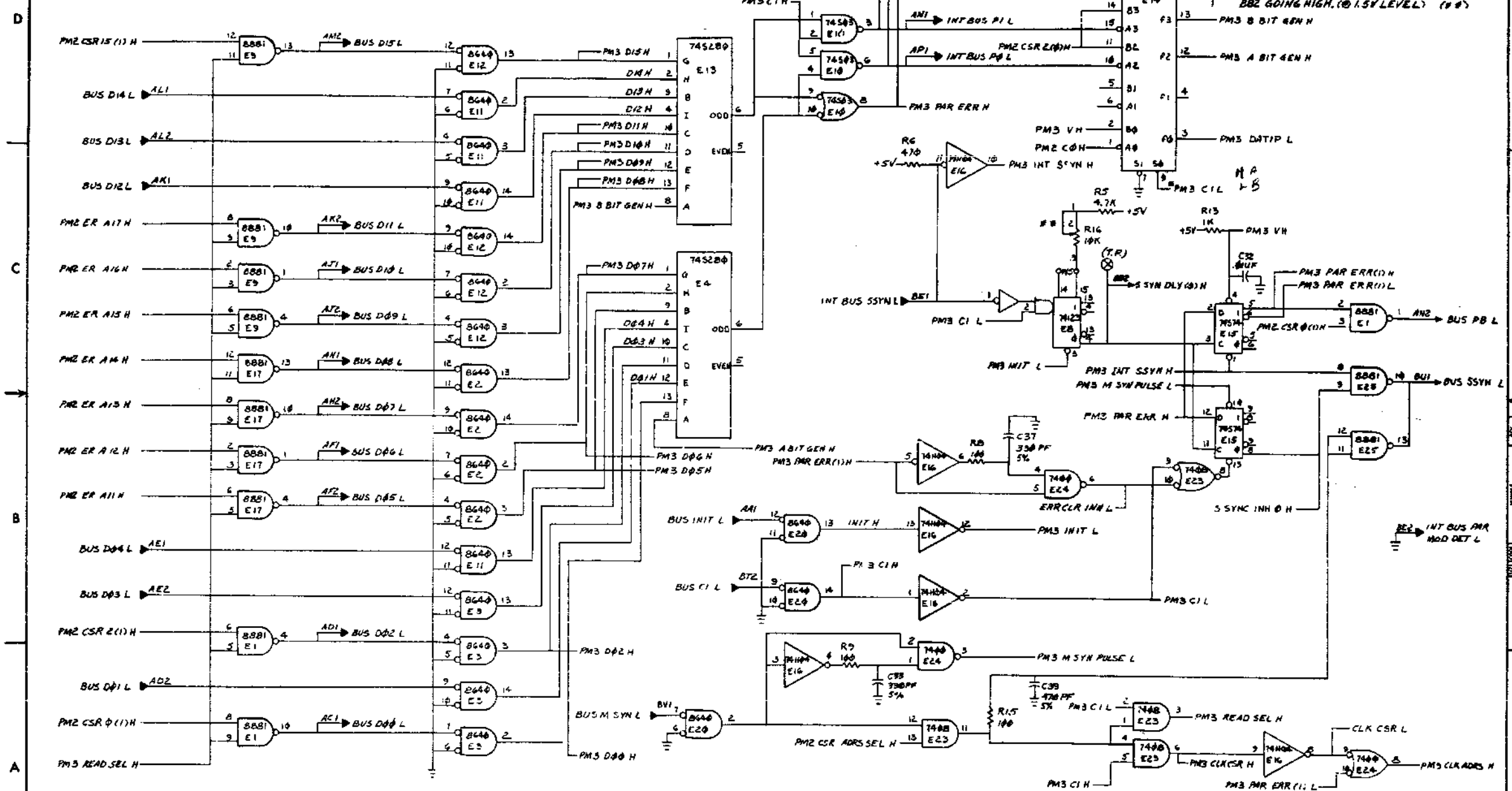
** THE 'A' INPUTS ARE SELECTED WHEN THE SEL INPUT GOES LOW. (**)

REV. 001	CHANGE NO.	REV.	TITLE	SIZE CODE	NUMBER	REV.
			PARITY MODULE (PM2)	DCS	M7850-0-1	B
			SCALE	SHEET	2 OF 3	

368

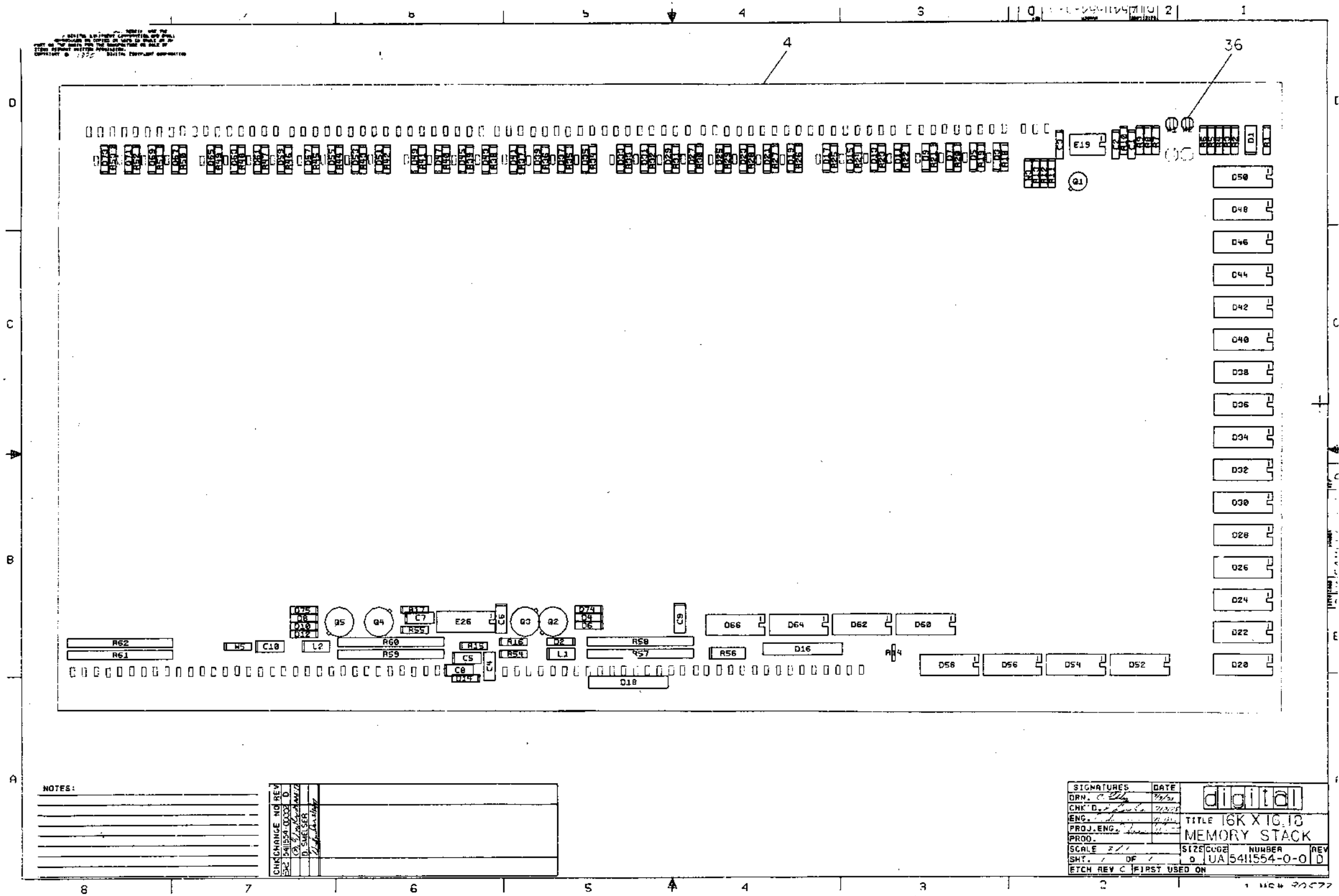
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NOTES:
 * B INPUTS SELECTED WHEN SEL IS LOW (0)
 ** SET R6 TO 110 NSEC ± 10% FROM SIGNAL ON PIN BE1 GOING LOW TO SIGNAL ON PIN BE2 GOING HIGH (0.15V LEVEL) (0*)



REVISIONS			TITLE		SHEET CODE		NUMBER		REV.	
CHK	CHANGE NO.	REV	PARITY MODULE (PM3)		DCS M7850-0-1		3 OF 3		B	

REVISIONS AND THE
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NOTES:

CHG	NO	REV
52	541554-0000	D
CA	5/1/72	AMZ
D	SMELSER	

SIGNATURES	DATE	digital
DRN. C. [Signature]	11/72	
CHK'D. [Signature]	11/72	
ENG. [Signature]	11/72	TITLE 16K X16,18
PROJ. ENG. [Signature]		MEMORY STACK
PROD.		
SCALE 2/1		SIZE CODE NUMBER REV
SHT. 1 OF 1		0 UA 541554-0-0 D
ETCH REV C	FIRST USED ON	

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY M. Poirier
DATE 7/7/75
ENG D. [Signature]
DATE 7/14/75
CHECKED [Signature]
DATE 7/17/75
PROD R. G. [Signature]
DATE 7/14/75
SECTION ISSUED SECT.

ITEM NO	DWG NO. / PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATIONS
1	D-CS-5411554-0-1	CIRCUIT SCHEMATIC		
2	D-AH-5411554-0-5	ASSY/DRILLING HOLE LAYOUT		
3	B-MH-5411554-0-6	MODULE ECO HISTORY		
4	5011493	ETCHED CIRCUIT BOARD		
5	1000026-00	CAP 680 PF 100V 5% DM	1	C5,C7
6	1001610-01	CAP .01UF 100V CER	5	C1,C3,C6,C9,C10
7	1010274-00	CAP .22UF 50V CER	3	C4,C8,C2
8	1105275-00	DIODE D672	44	D2-D15,D17,D19,D21,D23,D25,D27
9	1109990-00	DIODE, ZENER IN757A 9.1V 5%		D29,D31,D33,D35,D37,D39,D41
10	7010918-3-0	DIODE NETWORK		D43,D45,D47,D49,D51,D53,D55,D59
11	1910010-00	DIODE PACK 2501		D61,D63,D65,D67,D69,D71,D73,D74
12	1300229-00	RES 100 1/4W 5%	3	R13,R15,R17
13	1301775-00	RES 820 1/4W 5%	1	R1
14	1304862-00	RES 1.62K 1/8W 1%	1	R4
15	1302871 00	RES 1.21K 1/8W 1%	1	R3
16	1304833-00	RES 1.96K 1/8W 1%	1	R12

TITLE
16K x 16, 18
MEMORY STACK

ASSY NO.
D-UA-5411554-0-0
SHEET 1 OF 2
SIZE CODE
A PL
NUMBER
5411554-0-0
REV. ECO NO.
D 00002

DEC FORM DEC 16 (ANSI) D01 NS70
ORA

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY M. Poirier
DATE 7/7/75
ENG D. [Signature]
DATE 7/14/75
CHECKED [Signature]
DATE 7/17/75
PROD R. G. [Signature]
DATE 7/14/75
SECTION ISSUED SECT.

ITEM NO	DWG NO. / PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATIONS
17	1303045-00	RES 3.16K 1/4W 1%	1	R2
18	1300479-00	RES 10K 1/4W 5%	1	R16
19	1303312-00	RES 10K 1/8W 1%	1	R5
20	1300316-00	RES 470 1/4W 5%	1	R11
21	1303155-00	RES 21.5K 1/8W 1%	1	R6
22	1302396-00	RES 150K 1/4W 5%	2	R8,R9
23	1301781-00	RES 82 1/2W 5%	1	R56
24	1300202-00	RES 47 1/4W 5%	2	R54,R55
25	1300365-00	RES 1K 1/4W 5%	37	R18-R53,R7
26	1310071-00	RES 1K 1% THERMISTER	1	R14
27	1311142-00	RES NETWORK 220 1/4W 1%	6	R57-R62
28	1503366-00	TRANS 2N3736	4	Q2-Q5
29	1503409-01	TRANS 6534B	1	Q1
30	1610662-00	INDUCTOR 100UH	2	L1,L2
31	1910298-00	I.C. 72741	1	E1
32	1910546-00	I.C. 74S140	1	E2
33	1211727-00	CONTACT, MALE	179	J1-J179
34	9009185-00	JUMPER, INSULATED (.4 LONG)	1	WS
35	9107560-01	JUMPER, BUSS WIRE (#22 AWG)	4	W1-W4 (OPTIONAL)
36	9006735-00	EYELET (SPLIT LUG)	4	
37	1305114-00	RES 3.48K 1/8W 1%	1	R10

TITLE
16K x 16, 18
MEMORY STACK

ASSY NO.
D-UA-5411554-0-0
SHEET 2 OF 2
SIZE CODE
A PL
NUMBER
5411554-0-0
REV. ECO NO.
D

DEC FORM DEC 16 (ANSI) D01 NS70
ORA

CUSTOMER PRINT SET INDEX

THIS IS PRINT SET

SEQUENCE	└┘	└┘	SEQUENCE
DRAWING DIRECTORY			B-DD-MM11-C
H221 CORE MEM STACK			B-DD-H221-Ø
8K MEMORY			D-CS-G651-Ø-1
MEMORY SYSTEM MODULE ASSEMBLY			D-JA-MM11-C-Ø

UNIT VARIATIONS		PRINT SET		
VAR	TITLE	1		
MM11-C	8K x 16 BIT MEM SYSTEM	X		
MM11-CP	8K x 18 BIT MEM SYSTEM	X		
MM11-B	4K x 16 BIT MEM SYSTEM	X		
MM11-BP	4K x 18 BIT MEM SYSTEM	X		

REVISIONS		USED ON OPTION/MODEL		DRN. W. MAJOR	DATE	TITLE				
DATE	CHG. NO.	REV		CHK'D.	DATE					
9-75	MM11-C-1	A			2/12/75	MEMORY SYSTEM MODULE				
9-75	MM11-C-2	B								
12-75	MM11-C-3	C								
				PROJ. ENG.	DATE					
				PROD.	DATE	SIZE	CODE	NUMBER		REV
				FIELD SERV.	DATE	B	DD	MM11-C		
						DIST				
		SHEET 1 OF 2								

DEC 16 1975 10:27:18 AM

CUSTOMER PRINT SET		ELECTRICAL					CUSTOMER PRINT SET		MECHANICAL						
1	MFG SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE	1	MFG SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
X		1	B-DD-MM11-C	C	2	DRAWING DIRECTORY		X			D-UA-H221-0-0	#	1	H221 CORE MEM STACK ASSY	
X			D-CS-G651-0-1	#		8K MEMORY		X			D-UA-MM11-C-0	C	1	MEMORY SYSTEM MODULE ASSY	
			D-TD-G651-0-9		1	MM11B-C TIMING DIAGRAM DATA MODE									
			D-TD-G651-0-10		1	MM11B-C TIMING DIAGRAM DATO, DATOB MODE									
			D-TD-G651-0-11		1	MM11B, BP, C, CP BLOCK DIAGRAM									
CUSTOMER PRINT SET		X = PRINT OF DOCUMENT INCLUDED IN PRINT SET C = INCLUDES ALL PRINTS INDICATED ON DOCUMENT S = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED					TITLE		SIZE CODE		NUMBER		REV		
							MEMORY SYSTEM MODULE		SHEET 2 OF 2		B DD		MM11-C		

DRB 108

DEC 16-1325-1062-28-R972

323

DRAWING DIRECTORY

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CUSTOMER PRINT SET INDEX

	SEQUENCE		SEQUENCE
DRAWING DIRECTORY		B-DD-H221-Ø	
H221 STACK BOARD		D-CS-5411246-0-1	
H221 CORE MEMORY STACK ASSY		D-UA-H221-Ø-Ø	

THIS IS PRINT SET

UNIT VARIATIONS		PRINT SET	
VAR	TITLE	1	2
H221-B	8K x 16 BIT MEMORY STACK	X	
H221-A	8K x 18 BIT MEMORY STACK	X	
H221-D	4K x 16 BIT MEMORY STACK	X	
H221-C	4K x 18 BIT MEMORY STACK	X	

DEC 14 1975 10:52:14 AM 1975

REVISIONS	
DATE	REV
075112212	A

USED CN OPTION/MODEL	DAN. W. MAJOR	DATE	TITLE			
MM11-C	CHKD.	1/22/75	H221 CORE MEMORY STACK			
			SIZE	CODE	NUMBER	REV
			8	DD	H221-Ø	A
FIELD SERV.			DIET			
CHEET 1 OF 2						

314

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REF DES	DESCRIPTION	PART NUMBER	ITEM NO	
REF	X-Y COORDINATE HOLE LOCATION	K-00-6051-0-4	1	
REF	ASSY/DRILL HOLE LAYOUT	D-2M-6651-0-5	2	
REF	MOBILE ECD HISTORY	B-2M-6651-0-6	3	
1	ETCHED CIRCUIT BOARD	5011155	4	
2	C55-C74	CAP 100 PF 100V 5% DM	1700618-00	5
5	C218, C220, C224, C225, C228, C230, C232, C234, C222	CAP 120 PF 100V 5% DM	1800018-00	6
1	C22	CAP 600 PF 100V 5%	1006026-00	7
81	C1-C12, C14, C15, C18-C21, C23, C24, C28-C36, C40, C43-C45, C50-C55, C50-C52, C57-C72, C77-C79, C83-C88, C90-C96, C99, C104, C105, C107, C108, C111-C115, C219, C221, C225, C229, C233	CAP .01 UF 50V 20%	1001810-01	8
10	C42, C49, C57, C58, C100, C117, C118, C119, C226, C73	CAP 5 UF 25V 10% ALUM	1012084-01	9
1	C39	CAP 27 PF 100V 5% DM	1001739-00	10
4	C13, C25, C37, C101	CAP 62 PF 100V 5% DM	1000075-00	11
19	C38, C41, C46, C47, C59, C63, C74, C75, C78, C80, C91, C99, C97, C98, C102, C106, C109, C110	CAP .22UF 50V 20% CER	1010274-00	12
18	C231-C237	CAP 8000PF 50V 16% CER	1011740-01	13
4	C78, C95, C92, C100	CAP .01 UF AL EL	RN2279-00	14
18	F1-F18	1/4-A. PICO FUSE	R21299-04	15
1	G2	DIODE INSTA S. IV 1% ZENER	100250-01	16
1	D1	DIODE INSTA S. IV 5% ZENER	1117994-00	17
1	D2	RES 250 OH 5%	1001735-00	18
1	D3	RES 200 OH 5%	1000274-00	19
3	R137, R149, R150	RES 270 OH 5%	1000235-00	20
9	J30, J33, J34, J37, R127, R177, R14, R28, R13	RES 470 OH 5%	1000118-00	21
1	R48	RES 1.5K OH 5%	1000091-00	22
18	R01, R82, R90, R96, R97, R98, R99, R02, R03, R103, R110, R115, R116, R118, R132, R133, R137, R151, R152, R153	RES 1.0K OH 5%	1000235-00	23
2	R27, R28	RES 2.7K OH 5%	1000429-00	24
3	R22, R40, R40	RES 1.0K OH 1%	1000429-00	25
1	R26, R7	RES 2.5K OH 1%	1000310-00	26
1	R159	RES 2K OH 5%	1000238-00	27
1	R21	RES 1K OH 5%	1000479-00	28
1	R24	RES 32K OH 5%	1000219-00	29
1	R51	RES 2.1K OH 1%	1000358-00	30
1	R54	RES 50 OH 5%	1000359-00	31
1	R43	RES 21.5K OH 1%	1000152-00	32
18	R59, R60, R62, R63, R66, R104, R138, R111, R112, R121, R123, R125, R130, R145, R147, R156, R159	RES 18 OH 5%	1000234-00	33
4	R24, R11, R36, R125	RES 75 OH 5%	1000239-00	34
2	R49, R32	RES 1.0K OH 5%	1000238-00	35
1	R41	RES 825 OH 1%	1000143-00	36
1	R42	RES 1.47K OH 1%	1000153-00	37
2	R25, R26	RES 44.7K OH 1%	1000241-00	38
3	R3, R32, R105, R122, R135	RES 9.0K OH 1%	1000235-00	39
1	R50	RES 4.3K OH 1%	1000235-00	40
4	R13, R53, R134	RES 13 OH 1%	1000235-01	41
18	R10, R14, R15, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R75, R76, R77, R78, R79, R80, R81, R82, R83, R84, R85, R86, R87, R88, R89, R90, R91, R92, R93, R94, R95, R96, R97, R98, R99, R100, R101, R102, R103, R104, R105, R106, R107, R108, R109, R110, R111, R112, R113, R114, R115, R116, R117, R118, R119, R120, R121, R122, R123, R124, R125, R126, R127, R128, R129, R130, R131, R132, R133, R134, R135, R136, R137, R138, R139, R140, R141, R142, R143, R144, R145, R146, R147, R148, R149, R150, R151, R152, R153, R154, R155, R156, R157, R158, R159, R160, R161, R162, R163, R164, R165, R166, R167, R168, R169, R170, R171, R172, R173, R174, R175, R176, R177, R178, R179, R180, R181, R182, R183, R184, R185, R186, R187, R188, R189, R190, R191, R192, R193, R194, R195, R196, R197, R198, R199, R200	RES 21.5K OH 1%	1010733-01	42

REF DES	DESCRIPTION	PART NUMBER	ITEM NO	
5	R051-R165	RESISTOR NETWORK 100	1311741-00	43
1	R39	RES 220 OH 1% WM	1312123-00	44
8	R67, R4, R6, R7, R23, R35, R72, R36, R125	RES 100 OH 5%	1300228-00	45
9	R8, R12, R13, R14, R15, R40, R18, R159, R155	RES 4.7K OH 5%	1300447-00	46
18	R56, R57, R77-R80, R100-R103, R117-R120, R141-R144	RES 5.6K OH 5%	1301874-00	47
2	R44, R2	RES 10K OH 1%	1303312-00	48
1	R19	RES 10 OH 5%	1301317-00	49
1	R1	RES 3.83K OH 1%	1308413-00	50
1	R54	RES 24.3K OH 1%	1309418-00	51
1	R52	RES 12.1K OH 1%	1303313-00	52
1	R53	RES 47K OH 5%	1302177-00	53
1	R124	RES 350 OH 5%	1300295-00	54
1	R5	TRANSISTOR 2904-A	1501913-00	55
8	Q1-Q4, Q15, Q17, Q19, Q21	TRANSISTOR 3009-B	1503100-00	56
4	Q11, Q12, Q13, Q14	TRANSISTOR 6534B	1503409-01	57
4	Q16, Q18, Q20, Q22	TRANSISTOR 4258	1505321-00	58
5	E1, E2, E13, E14, E25	IC 8841	1311579-00	59
4	Q7, Q8, Q9, Q10	TRANSISTOR 3734	1516082-00	60
18	Q41-Q58	TRANSISTOR 3725	1510959-00	61
2	L1, L2	INDUCTOR 100 OH	1510882-00	62
4	E11, E12, E54, E55	DELAY LINE 250 NS TAPPED	1611243-00	63
9	T1-T9	TRANSFORMER HALF-BIT (1N-LINE)	1612119-00	64
1	E40	IC 7450	1905580-00	65
4	E37, E38, E48, E49	IC 7425	1909050-00	66
2	E10, E43	IC 7400	1909056-00	67
2	E42, E52	IC 74950	1909060-00	68
1	E33	IC 74953	1909062-00	69
3	E59, E69, E79, E93, E104	IC 74940B	1912400-00	70
1	E21	IC 74974	1909687-00	71
1	E27	IC 8981	1909705-00	72
14	E2, E5, E8, E9, E15, E73, E79, E81, E70, E80, E94, E103, E17, E16	IC 74901-1	1909849-00	73
6	E4, E7, E18, E19, E29, E78	IC 74904	1909891-00	74
5	E66, E76, E36, E32, E103	IC 7442	1910640-00	75
1	E31	IC 7435	1910224-00	76
1	E57	IC 74121	1910230-00	77
1	E60	IC 741	1910238-00	78
5	E24, E34, E45, E53, E26	IC 8035	1910849-00	79
9	E67, E71, E77, E91, E37, E95, E97, E59, E106	IC 7529	1910687-00	80
1	E38	IC 7406	1910741-00	81
2	E44, E56	IC 7427	1910378-00	82
20	E52, E55, E72, E75, E82, E85, E88, E91, E92, E102	IC 75325	1910680-00	83
6	E28, E35, E38, E48, E47, E50	IC 8840	1911489-00	84
4	USE R17A Q7-Q10	HEAT SHIM 2201 RED	1210907-00	85
1		SHIMBLE ASSY (HPZ)	7413192-00	86
11	D3, C6-D11, D13-D23, D35-D42, D45-D50, C45-D19, D34-D124, D128-D115, D121-D133, D138-D144, D147-D157	DIODE C872	1105275-00	87

REF DES	DESCRIPTION	PART NUMBER	ITEM NO	
121	J1 (1-12), J2(1-10), J3 (1-19), J4(1-59), J5 (1-18)	RECEPTACLE (AMP)	1211728-00	88
1	J9	CONN MALE 7 PIN	1212104-00	89
7	E59	SWITCH DIP PACKAGE	1211164-04	90
12		EYELET	9006732-00	91
5	R15, R18, R17, R18, R9, W2	JUMPER, INSULATED	9009185-00	92
23	(USE WITH Q5, Q7-Q10 Q41-Q58)	TRANSIPAD	9007201-00	93
1		STANDOFF 1/8 D.O. X 3/8 LG X 400-32 YAP	9008213-00	94
1		SCREW NYLON #6-32 X 1/2	9009041-01	95
1	R35?	RES 270 OH WM 5%	1301972-00	96
4	R38, R75, R99, R129	RES 680 OH WM 5%	1301428	97
1	R50	RES 3.16K OH WM 1%	1303045	98

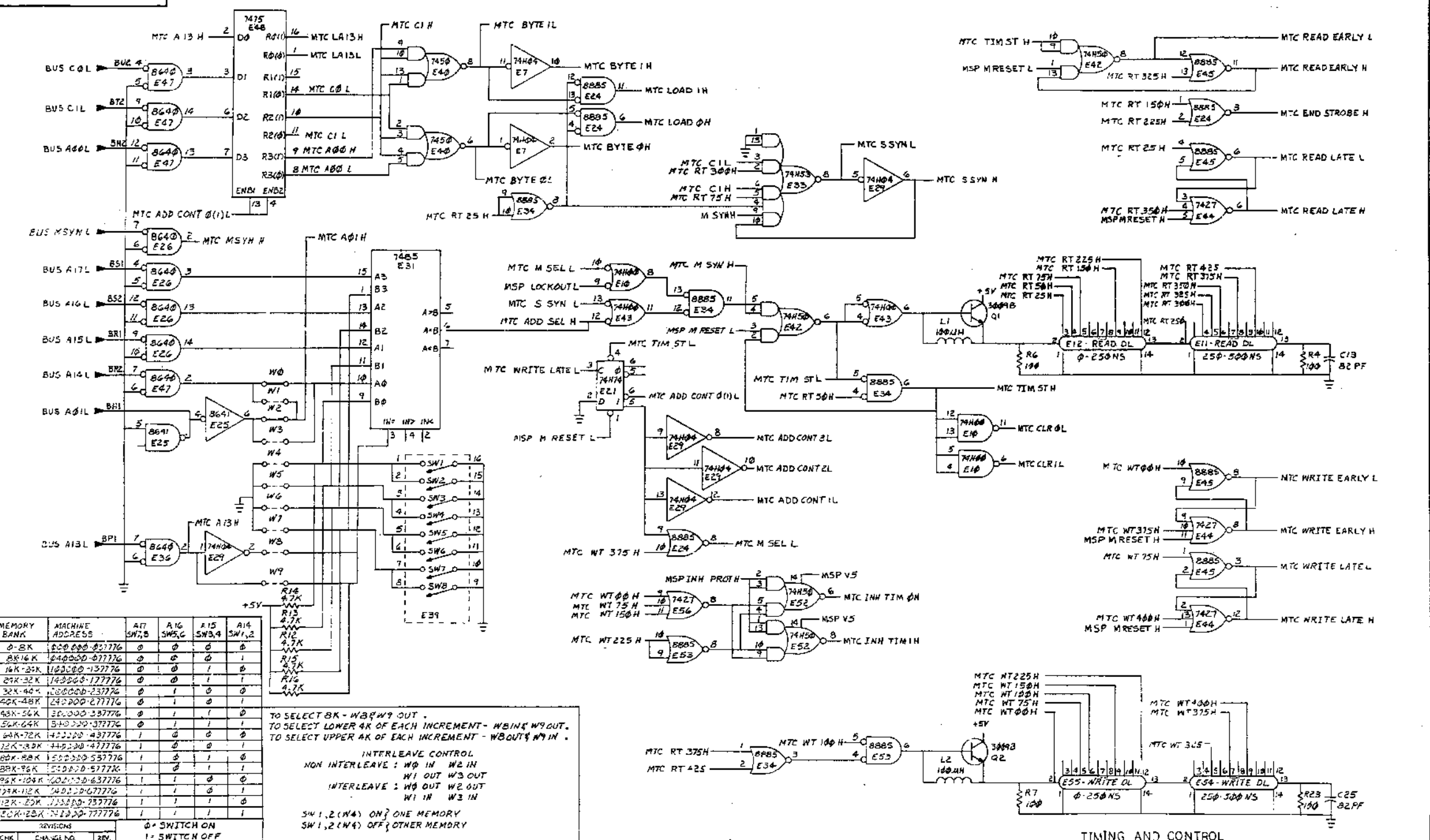
CAP	C16, C17, C116, C120 - C199, C223, C231, C235, C227
DIODES	D4, D5, D12-D15, C31-C34, D43-D48, D61-C64, D80-D83, D105-D108, D116-D120, D134-D137, D145, D146
RES	R0, R5, R9, R19, R11, R17, R154
TRANS	C8, C23-34D
I.C.	E22, E23, E30, E32, E41, E51, E58

REV	CHANGE NO	REV

TITLE	SICR. CLASS	NUMBER	REV.
UNIRUS 8K MEMORY	D CS C654-0-1		J
SCALE: 1/1	SHEET: 2 OF 3	DIST:	

377

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MEMORY BANK	MACHINE ADDRESS	A17 SW7,B	A16 SW5,C	A15 SW3,A	A14 SW1,2
0-8K	000000-057776	0	0	0	0
8K-16K	040000-077776	0	0	0	1
16K-24K	100000-137776	0	0	1	0
24K-32K	140000-177776	0	0	1	1
32K-40K	160000-237776	0	1	0	0
40K-48K	240000-277776	0	1	0	1
48K-56K	260000-337776	0	1	1	0
56K-64K	340000-377776	0	1	1	1
64K-72K	420000-437776	1	0	0	0
72K-80K	440000-477776	1	0	0	1
80K-88K	500000-537776	1	0	1	0
88K-96K	520000-577776	1	0	1	1
96K-104K	600000-637776	1	1	0	0
104K-112K	640000-677776	1	1	0	1
112K-120K	720000-737776	1	1	1	0
120K-128K	740000-777776	1	1	1	1

TO SELECT 8K - WB IN W9 OUT.
 TO SELECT LOWER 4K OF EACH INCREMENT - WB IN W9 OUT.
 TO SELECT UPPER 4K OF EACH INCREMENT - WB OUT W9 IN.

INTERLEAVE CONTROL
 NON INTERLEAVE : W0 IN W2 IN
 W1 OUT W3 OUT
 INTERLEAVE : W0 OUT W2 OUT
 W1 IN W3 IN

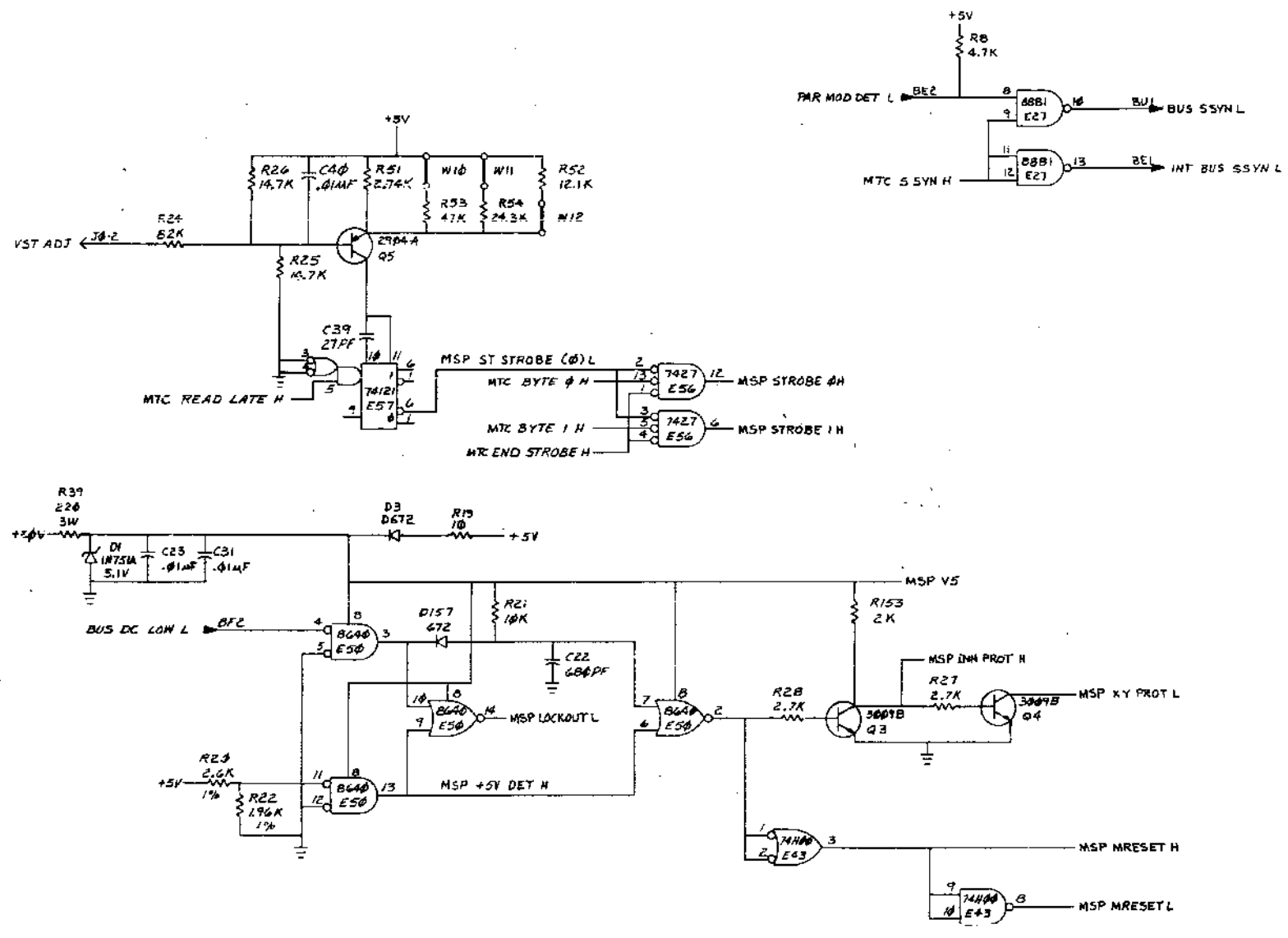
SW1,2 (W4) ON? ONE MEMORY
 SW1,2 (W4) OFF? OTHER MEMORY

TITLE	NUMBER	REV.
UNIBUS 8K MEMORY (MTC)	DCS G651-0-1	J

SCALE: + + + SHEET: 3 OF 13 DIST.:

318

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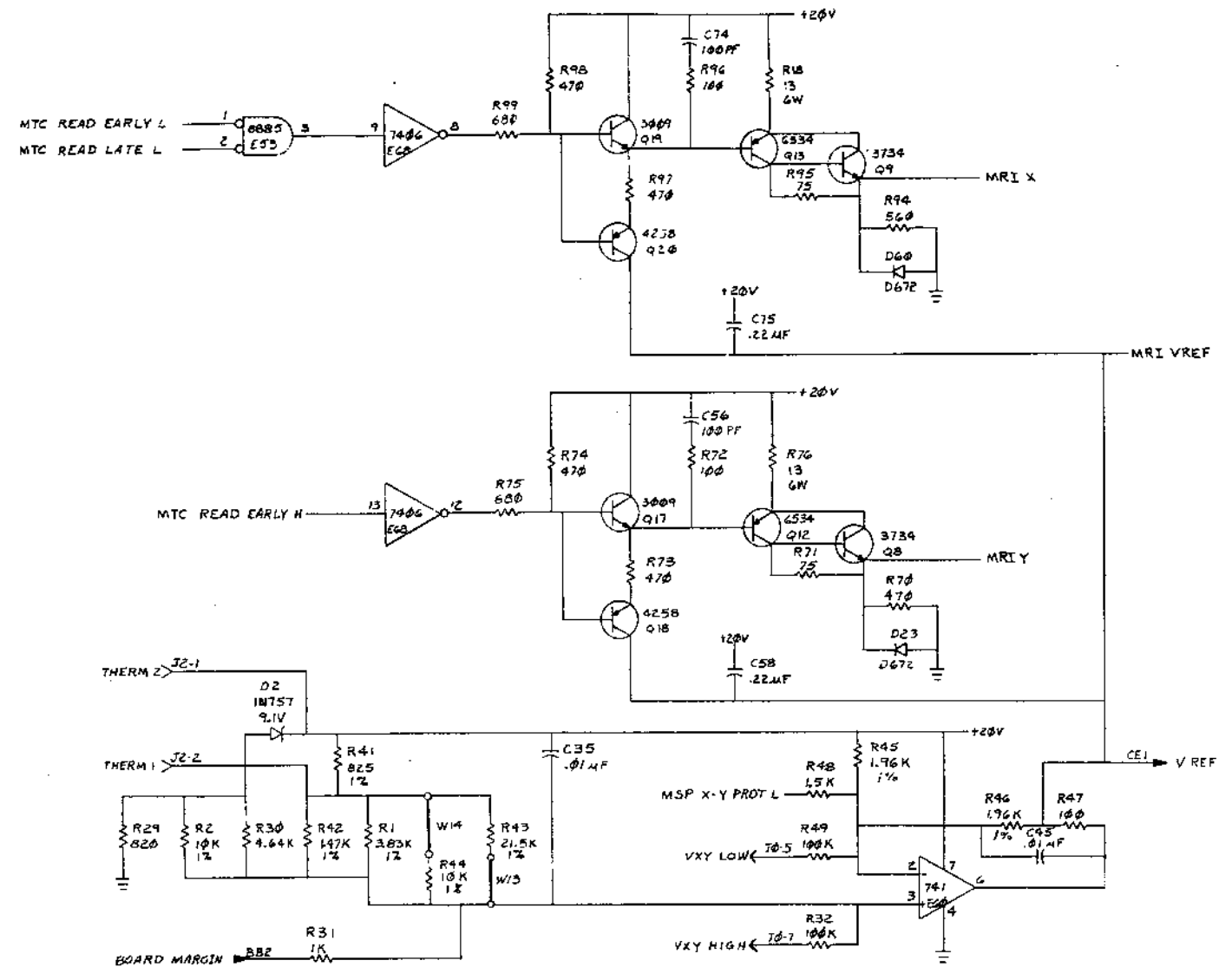
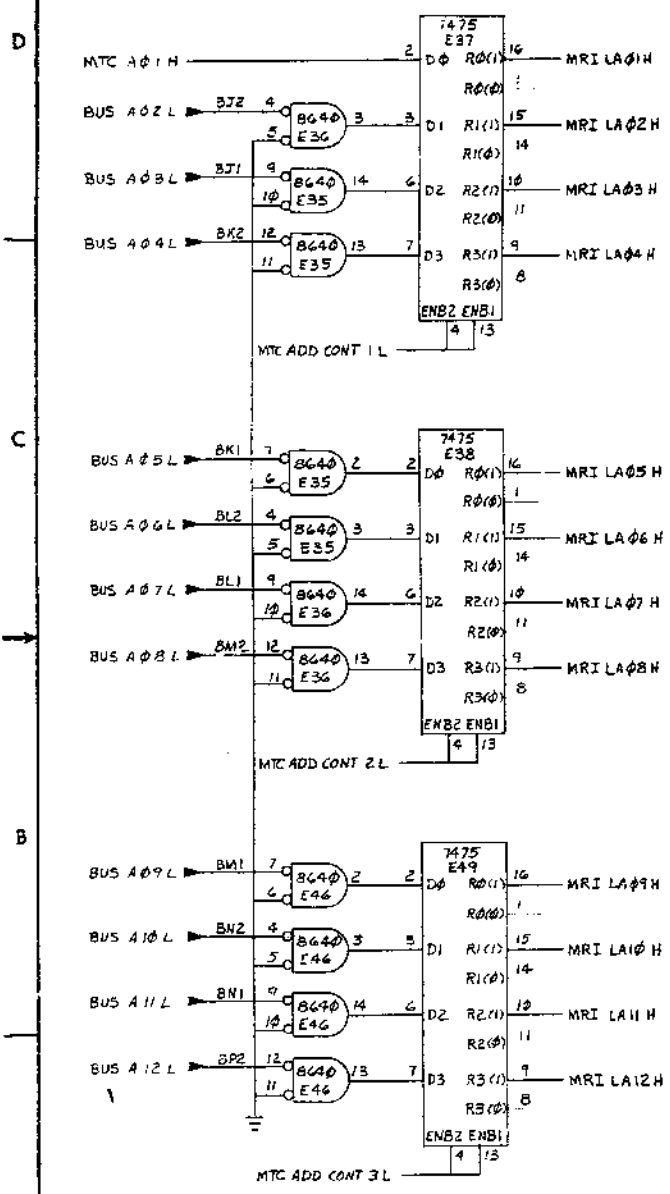
REVISIONS		
CHK	CHANGE NO	REV

STROBE AND PROTECT

TITLE	(MSP)	SIZE	CODE	NUMBER	REV.
UNIBUS 8K MEMORY	D	CS	G651-0-1	N	J
SCALE	SHEET	4	OF 13	DIST.	

319

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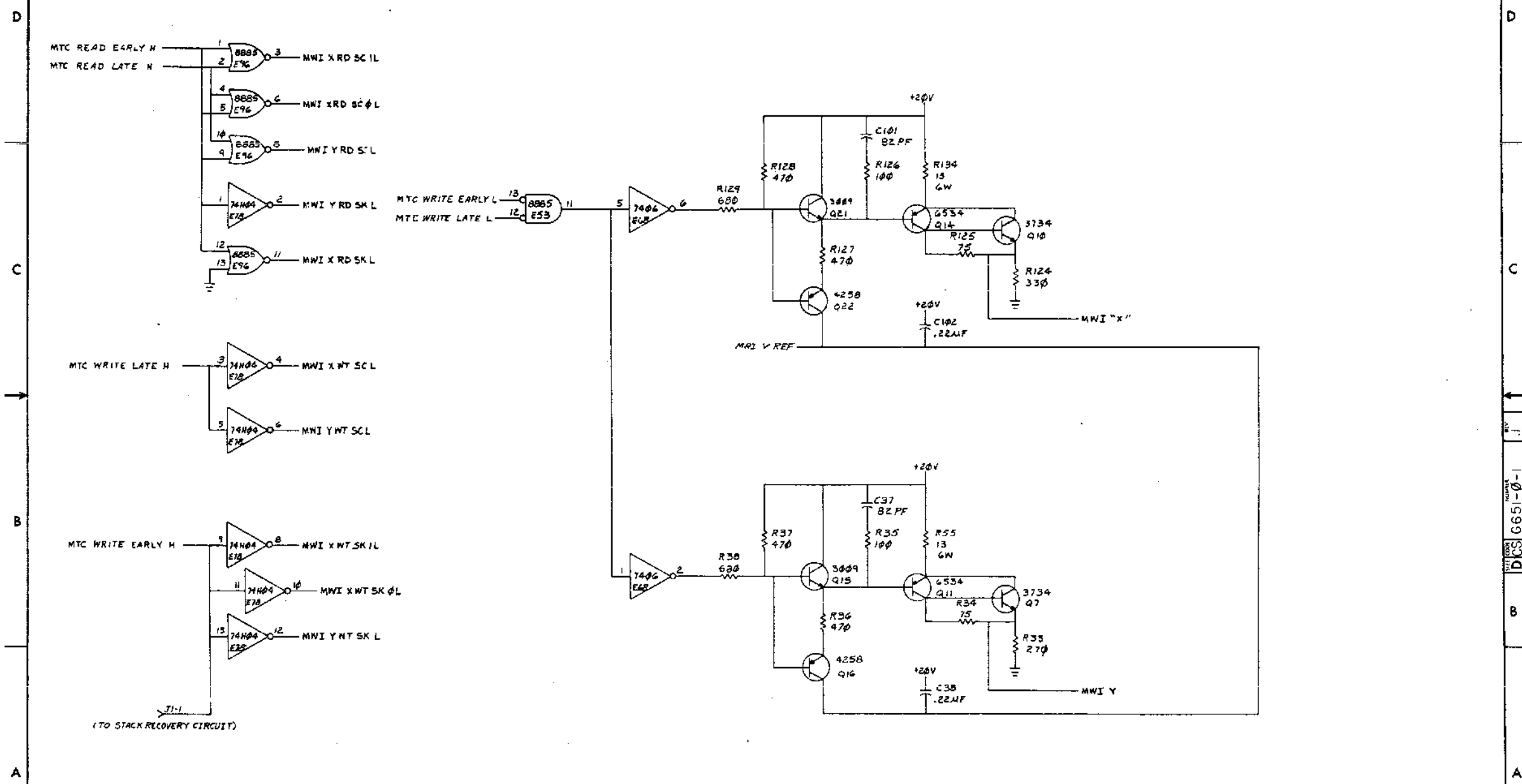


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		UNIBUS 8K MEMORY (MRI)		SIZE	0000	NUMBER	6651-0-1	REV.	J
SCALE		SHEET	5 OF 13	DIST.					

380

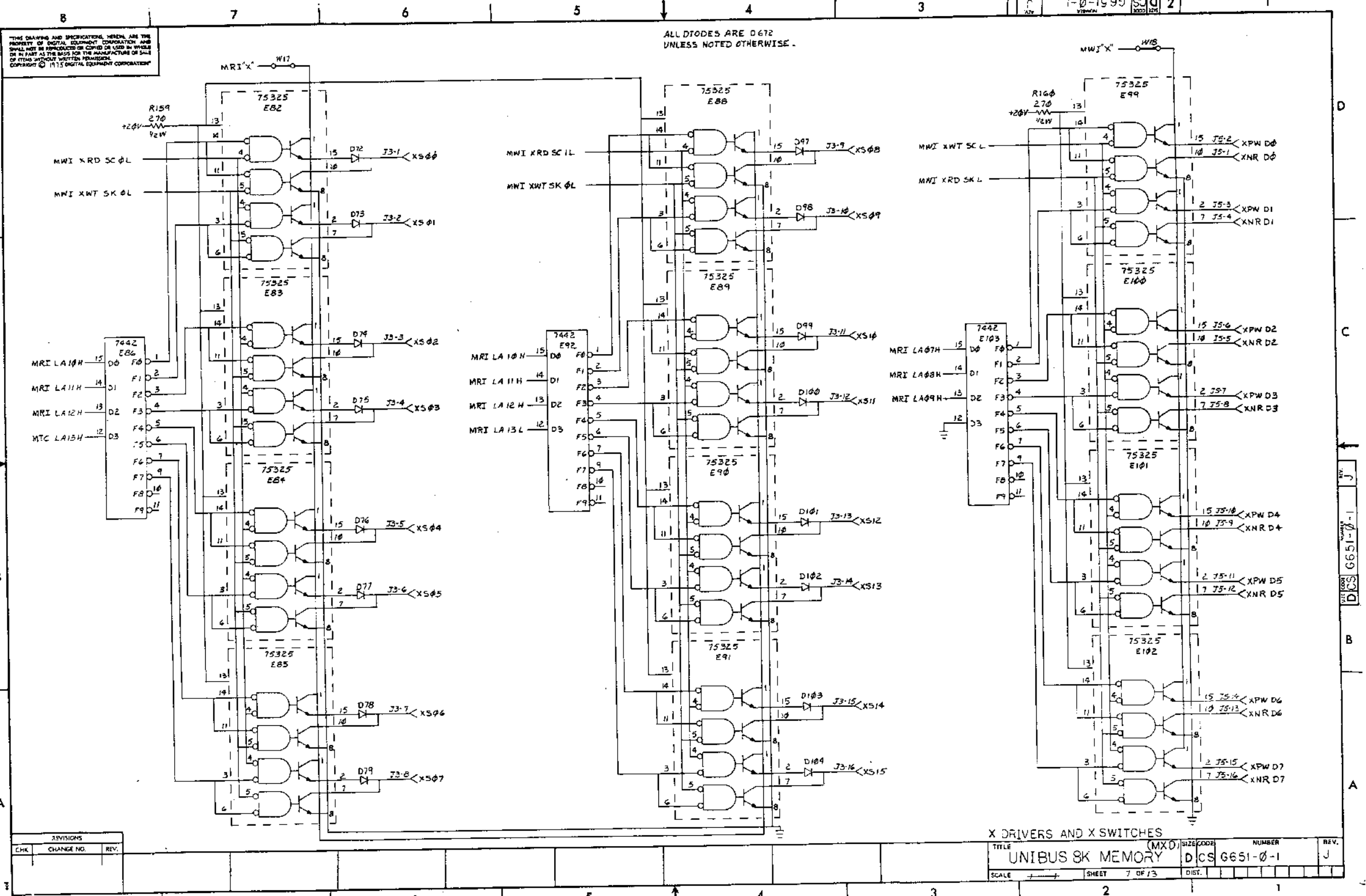
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REVISIONS		
CHK	CHANGE NO.	REV.

X,Y WRITE CURRENT SOURCES

TITLE	(MWI)	SIZE	CODE	NUMBER	REV.
UNIBUS 8K MEMORY		DCS	G651-0-1		1
SCALE	SHEET	2 OF 13		DIST.	



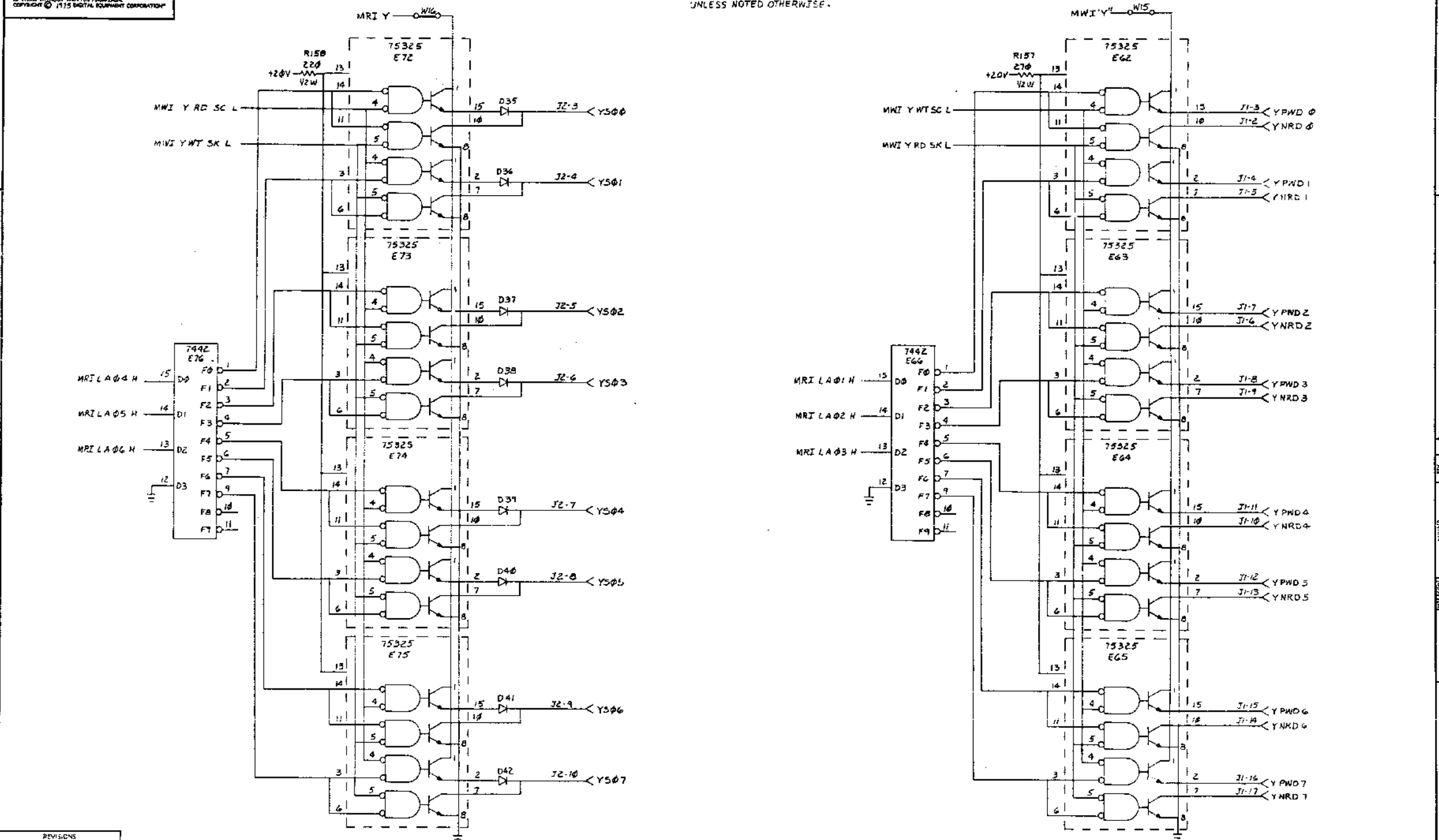
REVISIONS		
CHK	CHANGE NO.	REV.

X DRIVERS AND X SWITCHES		(MXD)	SIZE CODE	NUMBER	REV.
UNIBUS 8K MEMORY		D	CS	G651-0-1	J
SCALE	SHEET	7 OF 13	DIST.		

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ALL DIODES ARE DG72 UNLESS NOTED OTHERWISE.



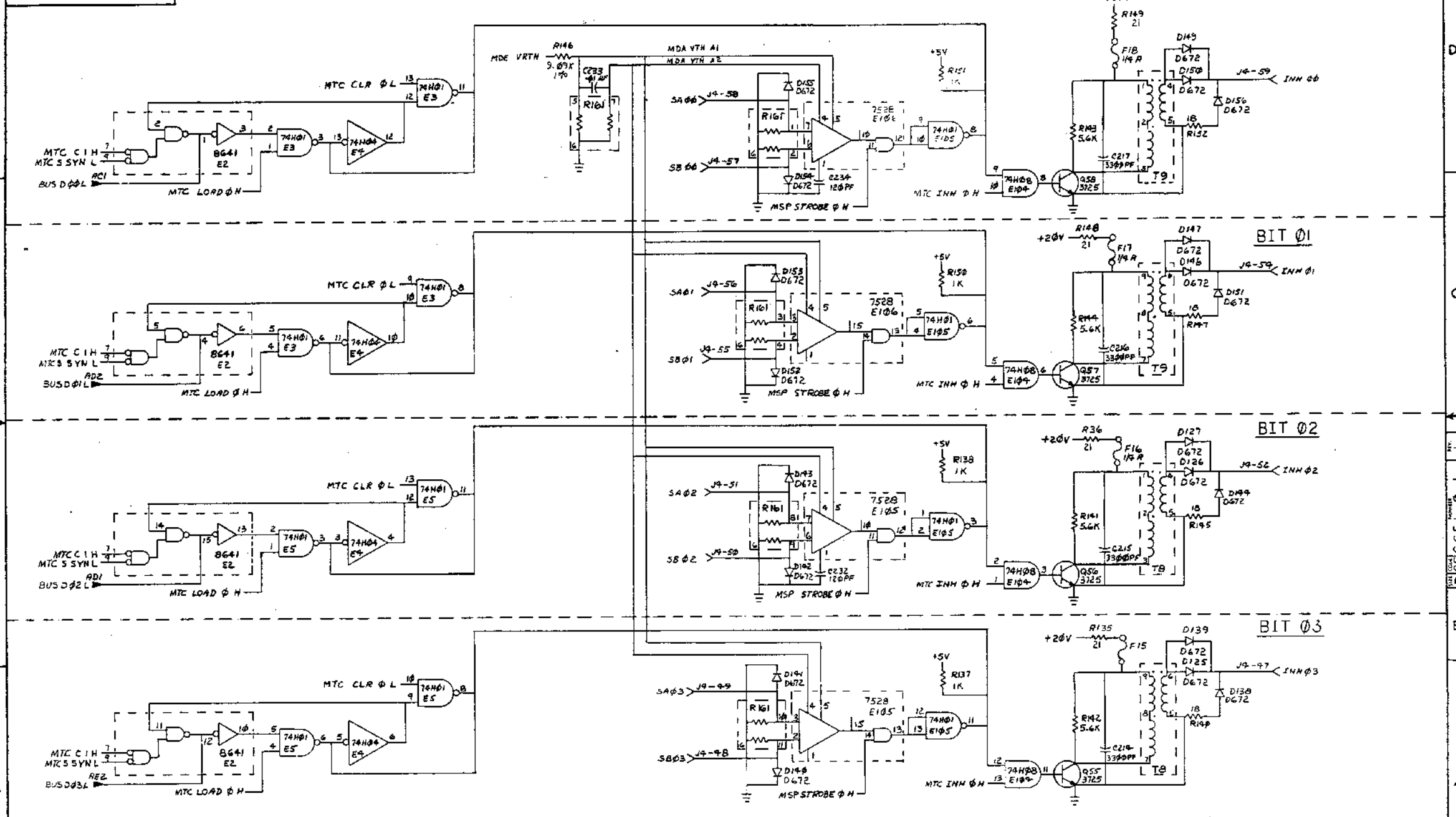
Y DRIVERS AND Y SWITCHES

TITLE	(MYD)	SIZE/DATE	NUMBER	REV.
UNIBUS 8K MEMORY		D CS	G651-0-1	J
SCALE	SHEET	8 OF 13	DIST.	

REVISIONS		
CHK	CHANGE NO.	REV.

383

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REVISIONS		
CHK	CHANGE NO.	REV.

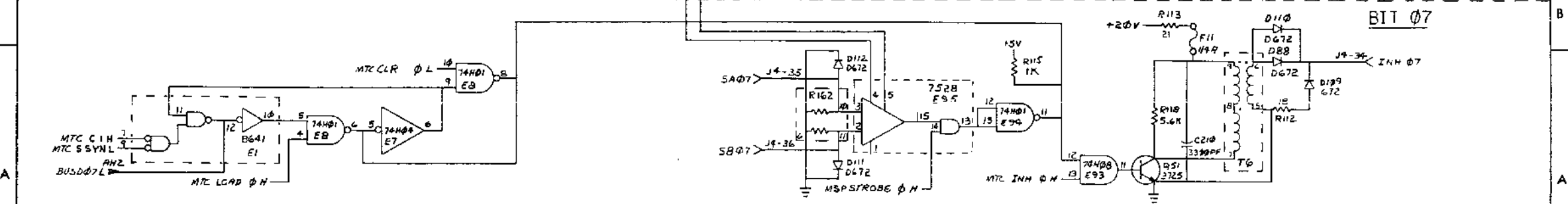
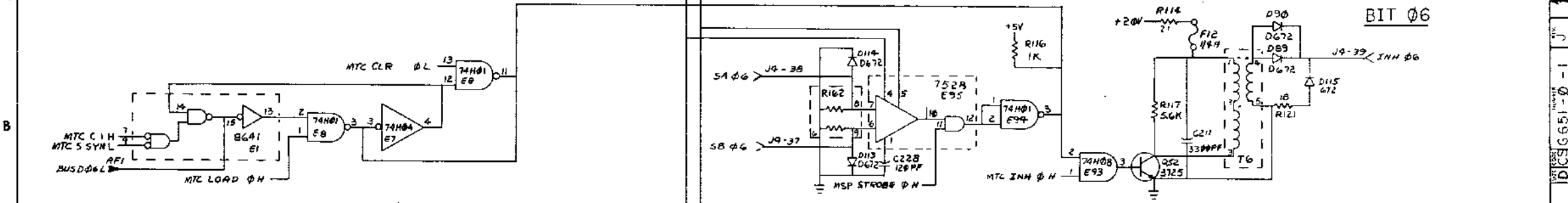
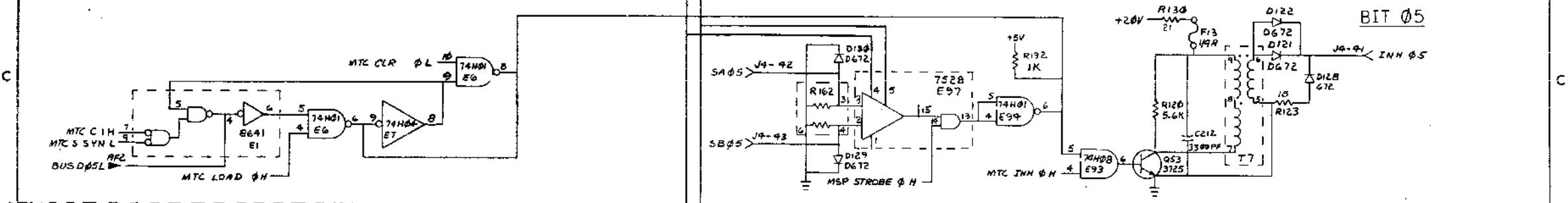
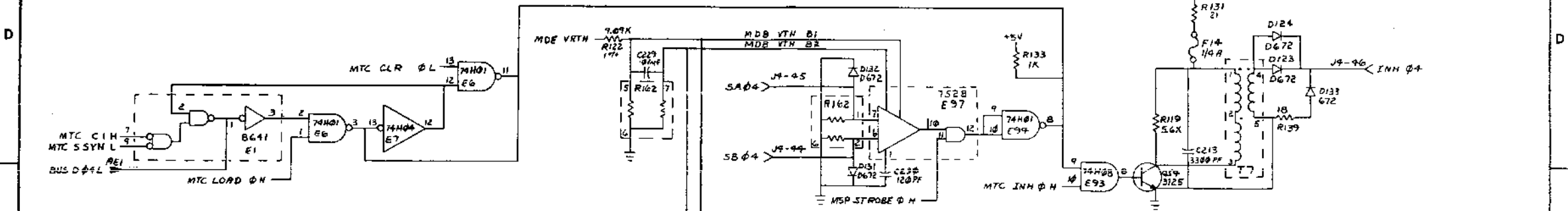
TITLE		UNIBUS 8K MEMORY (MDA)		SIZE CODE	NUMBER		REV.
SCALE		SHEET		5 OF 13		D.C.S. G651-0-1 J	

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1-0-1999 630 2

BIT 04



CHK	CHANGE NO.	REV.

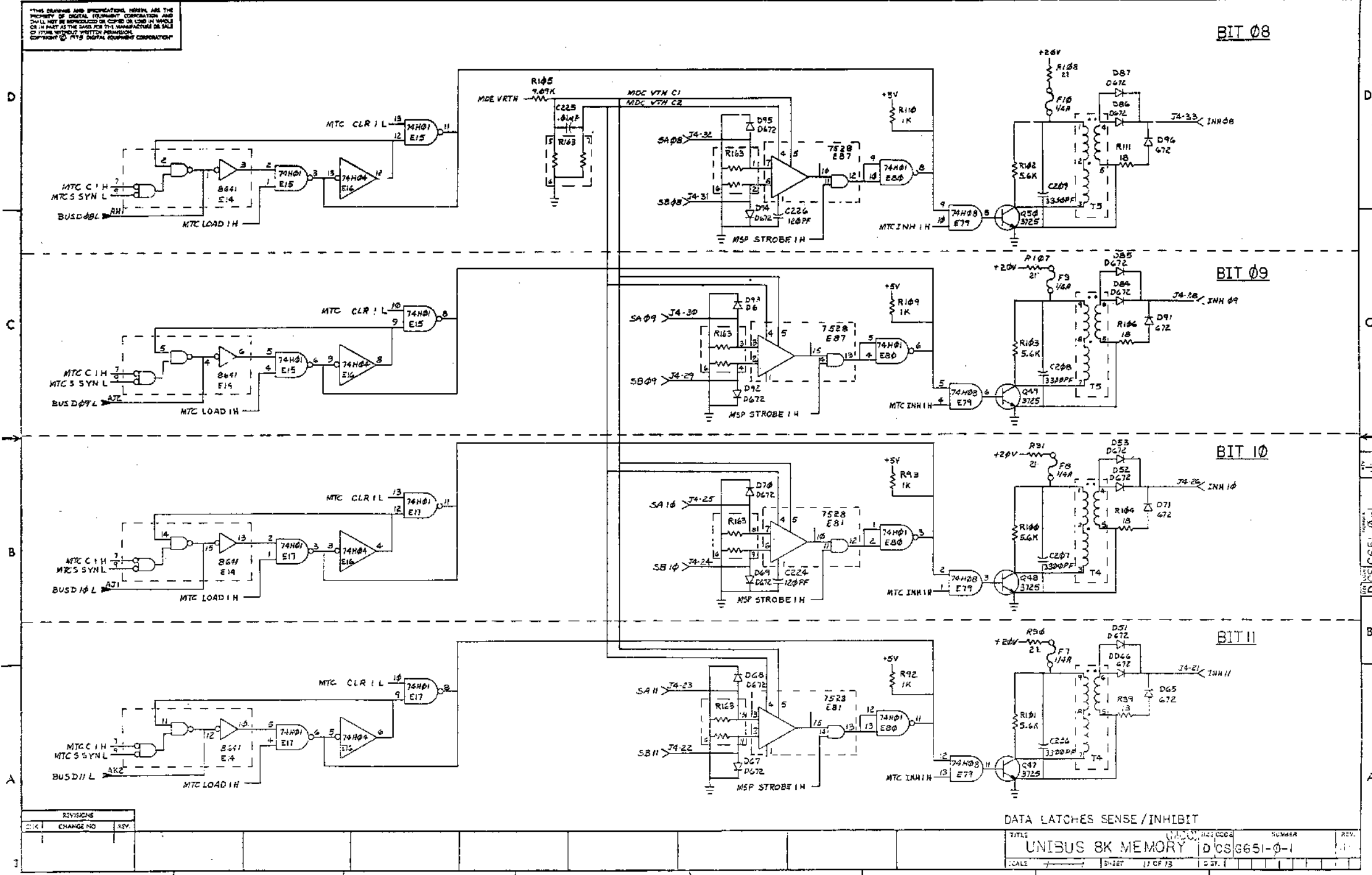
REVISIONS			
CHK	CHANGE NO.	REV.	

DATA LATCHES SENSE /INHIBIT

TITLE	UNIBUS 8K MEMORY (MDB)	SIZE CODE	NUMBER	REV.
SCALE	1/16	SMPT	10 OF 13	DIST

365

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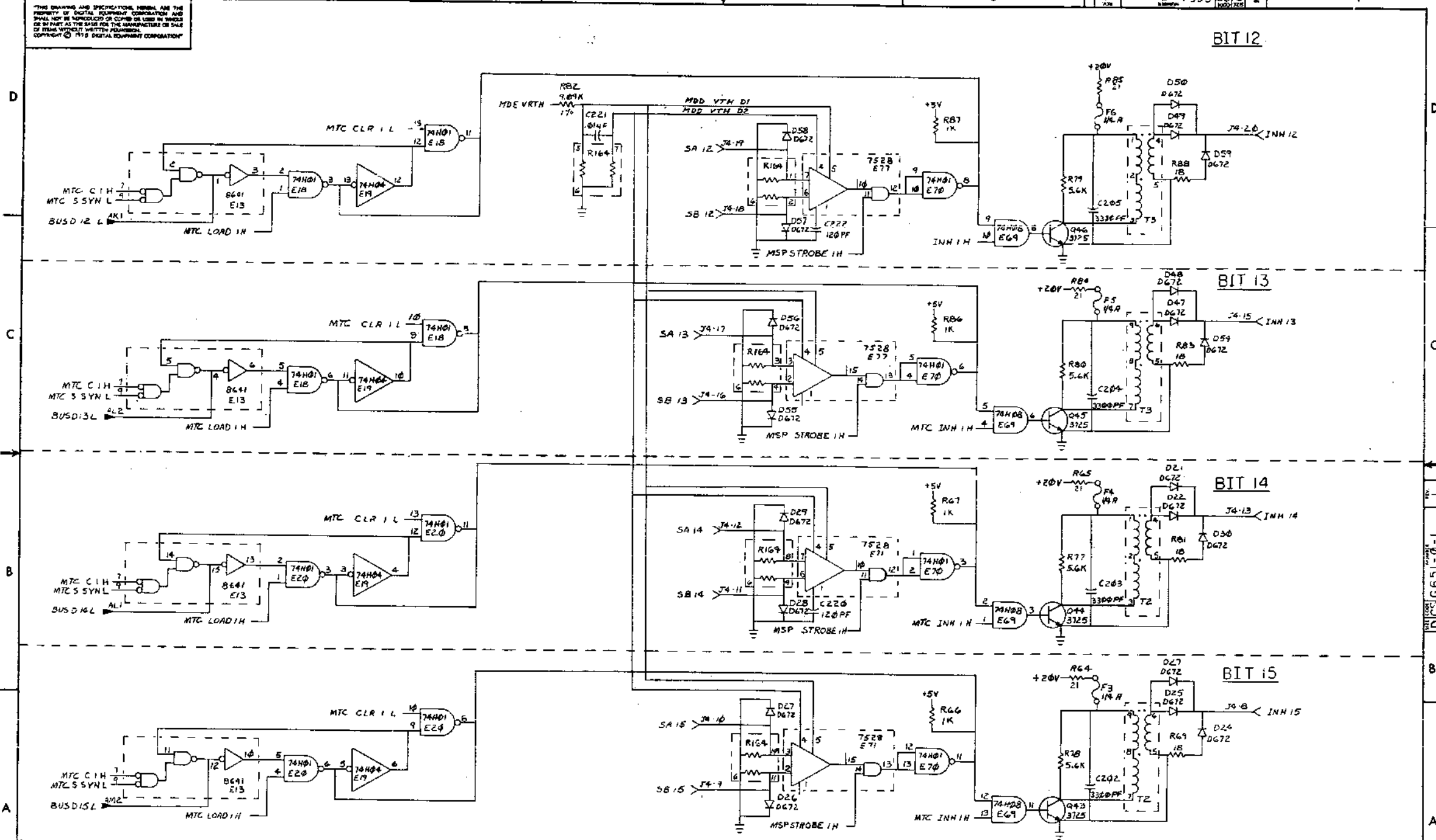
REVISIONS		
NO.	CHANGE NO.	REV.

DATA LATCHES SENSE/INHIBIT		TITLE	UNIBUS 8K MEMORY	NUMBER	1220004	REV.
SCALE	DATE	11 OF 13	237.1			

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1-0-1590 2



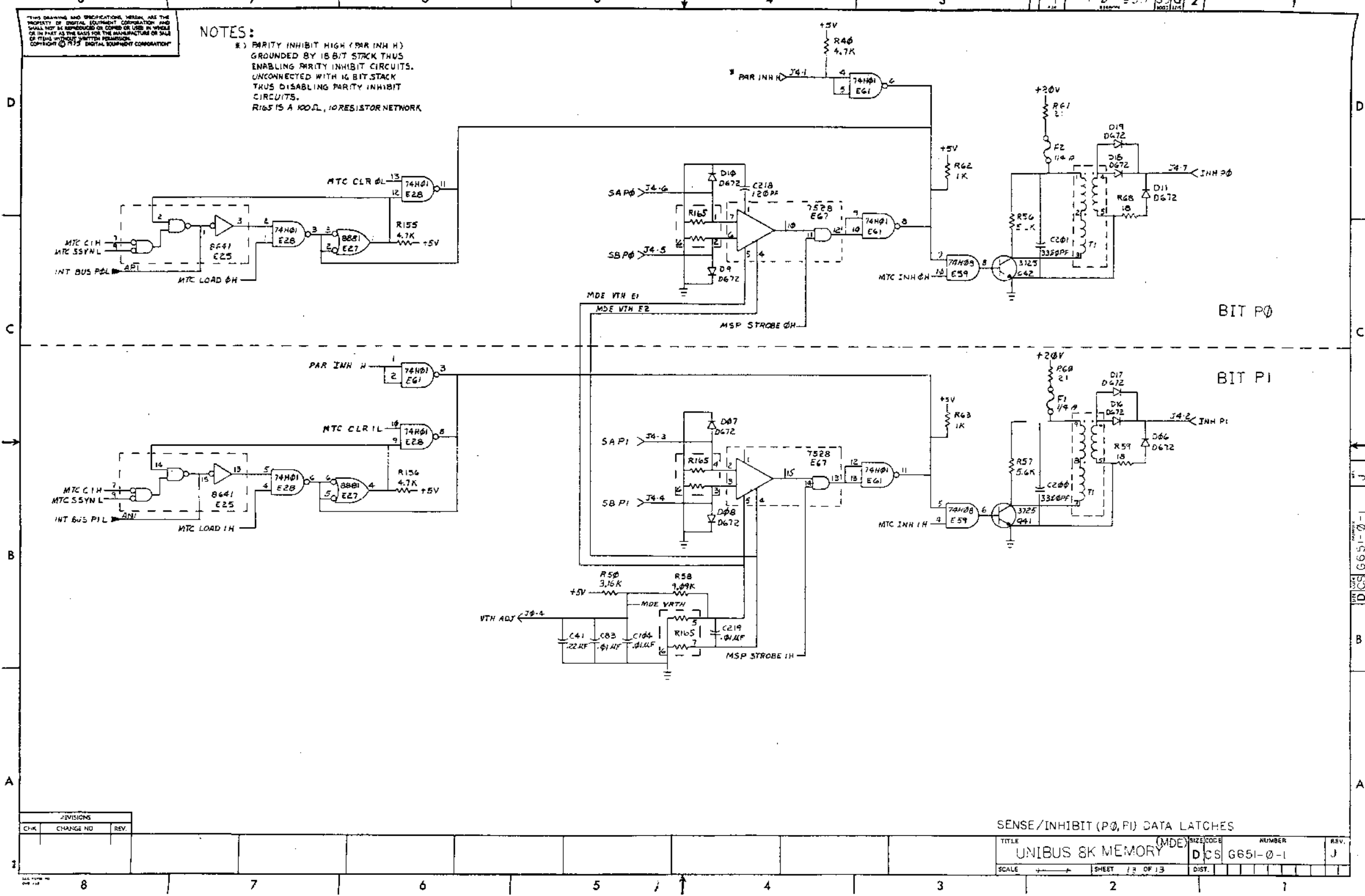
REVISIONS		
CHK	CHANGE NO	REV.
3		

DATA LATCHES SENSE/INHIBIT
 TITLE UNIBUS 8K MEMORY (MDD) SIZE CODE NUMBER REV.
 DCSG651-0-1 J
 SCALE SHEET 12 OF 13

387

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NOTES:
 1. PARITY INHIBIT HIGH (PAR INH H) GROUNDED BY 16 BIT STACK THUS ENABLING PARITY INHIBIT CIRCUITS. UNCONNECTED WITH 16 BIT STACK THUS DISABLING PARITY INHIBIT CIRCUITS. R165 IS A 100Ω, 10 RESISTOR NETWORK



REVISIONS		
CHK	CHANGE NO	REV.

TITLE		UNIBUS 8K MEMORY (MDE)		SIZE	CODE	NUMBER	REV.
SCALE		SHEET 13 OF 13		DIST.	D	CS	G651-0-1

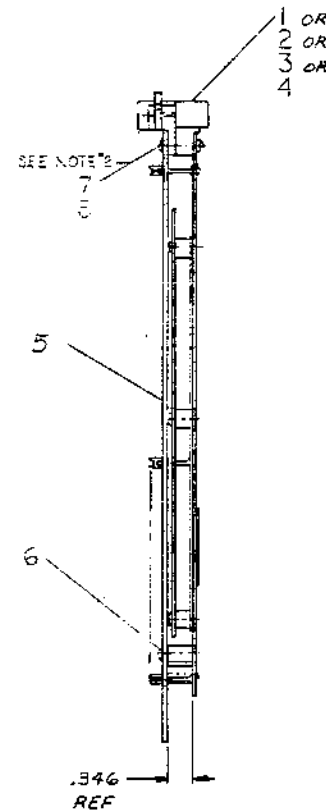
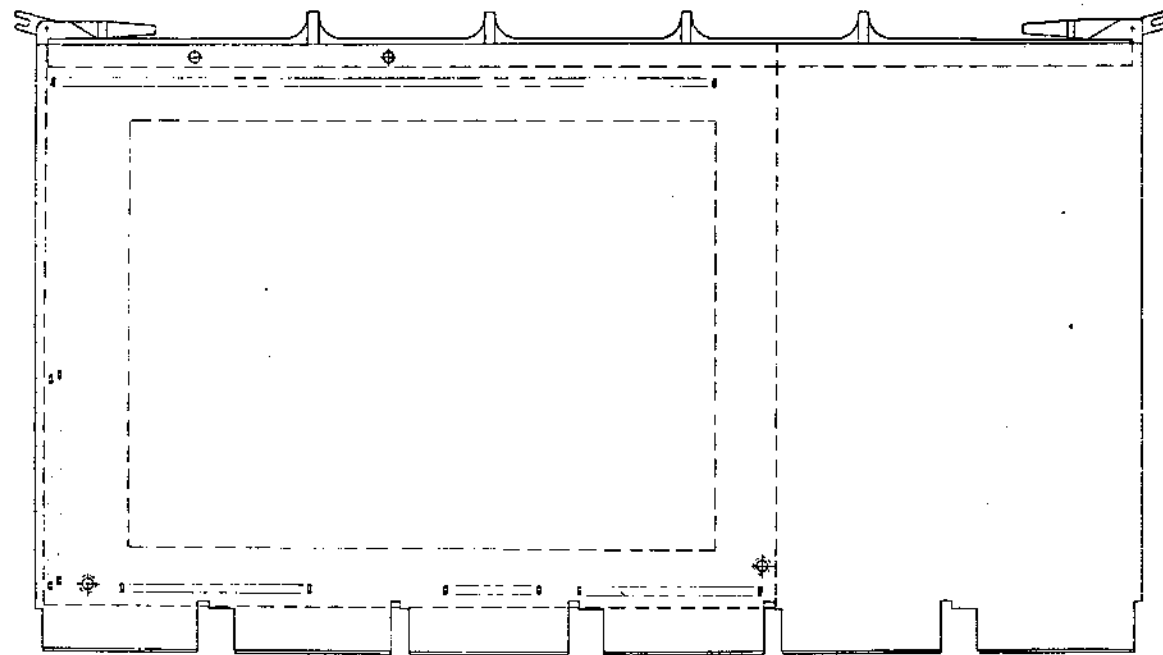
388

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NUMBER	VARIATION
MM11-C	8K x 16 BIT
MM11-CP	8K x 16 BIT
MM11-B	4K x 16 BIT
MM11-BP	4K x 16 BIT

NOTE

1. MM11CP (8Kx16) MEMORY MODULE ASSEMBLY MAY BE SUBSTITUTED FOR MM11C (8Kx16). MM11BP (4Kx16) MAY BE SUBSTITUTED FOR MM11B (4Kx16).
2. INSTALL ITEM # 7 (2 INT TOOTH LOCK WASHERS) TORQUE HAND TIGHT



QTY	DESCRIPTION	DWG/PART NO.	ITEM NO.
2	SCR. PAN HD SS 2-56 X .31	9006002-01	5
2	WASHER INT. #2	9006631	7
2	SCR. SLETTED. N/C ON -11-2516	9006407-03	6
1	8K MEMORY	D-05-G651-0-1	5
1	H221 CORE MEM STACK ASSY D-0A-H221-C		4
1	H221 CORE MEM STACK ASSY D-0A-H221-D		3
1	H221 CORE MEM STACK ASSY D-0A-H221-A		2
1	H221 CORE MEM STACK ASSY D-0A-H221-B		1

DESCRIPTION	DWG/PART NO.	ITEM NO.
MM11B		
MM11A		
MM11CP		
MM11C		

THIRD ANGLE PROJECTION

REMOVE DIMS AND MAKE DIMS CORRECT

DO NOT SCALE DWG

MATERIAL: SEE PARTS LIST

SCALE: 1:1

ORIGIN: 1-16-75

FIRST USED ON: MM11-C

TITLE: MEMORY SYSTEM MODULE ASSEMBLY

SIZE: D UAI

NUMBER: MM11-C-0

REV: C

SHEET 1 OF 1

REVISIONS

NO.	DATE	DESCRIPTION
1	11/16/75	INITIAL DESIGN
2	12/1/75	REVISED TO ADD DIMENSIONS
3	12/1/75	REVISED TO ADD DIMENSIONS
4	12/1/75	REVISED TO ADD DIMENSIONS
5	12/1/75	REVISED TO ADD DIMENSIONS
6	12/1/75	REVISED TO ADD DIMENSIONS
7	12/1/75	REVISED TO ADD DIMENSIONS
8	12/1/75	REVISED TO ADD DIMENSIONS

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CUSTOMER PRINT SET INDEX

~~THIS IS PRINT SET~~

NOTE:

- FOR FIELD MAINTENANCE PRINT SET REFER TO B-TC-11/04-0-1
- SEE C-PL-11/04-0-0 FOR USE OF M9301 IN PLACE OF M9312

5.25 BOX
BALL-L

UNIT VARIATIONS		PRINT SET
VAR	TITLE	
11/04-AA	KD11-D, KY11-LA, M9312, M9302, MS11-EP, DD11-C, BALL-LM 115V	
11/04-AB	KD11-D, KY11-LA, M9312, M9302, MS11-EP, DD11-C, BALL-LN 230V	
11/04-AC	KD11-D, KY11-LA, M9312, M9302, MS11-EP, DD11-P, BALL-LM 115V	
11/04-AD	KD11-D, KY11-LA, M9312, M9302, MS11-EP, DD11-P, BALL-LN 230V	
11/04-BA	KD11-D, KY11-LA, M9312, M9302, MS11-FP, DD11-C, BALL-LM 115V	
11/04-BB	KD11-D, KY11-LA, M9312, M9302, MS11-FP, DD11-C, BALL-LN 230V	
11/04-BC	KD11-D, KY11-LA, M9312, M9302, MS11-FP, DD11-P, BALL-LM 115V	
11/04-BD	KD11-D, KY11-LA, M9312, M9302, MS11-FP, DD11-P, BALL-LN 230V	
11/04-DA	KD11-D, KY11-LA, M9312, M9302, MS11-JP, DD11-C, BALL-LM 115V	
11/04-DB	KD11-D, KY11-LA, M9312, M9302, MS11-JP, DD11-C, BALL-LN 230V	
11/04-DC	KD11-D, KY11-LA, M9312, M9302, MS11-JP, DD11-P, BALL-LM 115V	
11/04-DD	KD11-D, KY11-LA, M9312, M9302, MS11-JP, DD11-P, BALL-LN 230V	
11/04-LC	KD11-D, KY11-LA, M9312, M9302, MS11JP(2) DD11-P BALL-LM 115V	
11/04-LD	KD11-D, KY11-LA, M9312, M9302, MS11JP(2) DD11-P BALL-LN 230V	
11/04-FC	KD11-D, KY11-L, M9312, M9302, MM11-CP DD11-P BALL-LK 115V	
11/04-FD	KD11-D, KY11-L, M9312, M9302, MM11-CP DD11-P BALL-LE 230V	

REVISIONS		REV	A	B	C	D	E	F	H	J	K
DATE	CHG. NO.										
8-28	11/04-1										
7-15	11/04-3										
7-15	11/04-4										
4-7	11/04-5										
0-9	11/04-6										
7-15	11/04-7										
6-77	11/04-8										
2-77	11/04-9										
3-78	11/04-10										

USED ON OPTION/MODEL	DRN.	DATE	TITLE
	G. MARINI	9/25/75	DRAWING DIRECTORY 11/04
	CHKD.	DATE	
	D. HEALY	9/30/75	
	PROJ ENG.	DATE	
	R. Barry	10-22-75	
	DRN.	DATE	SIZE CODE
	R. Peterson	10-27-75	B DD
			NUMBER
			11/04-0
			REV
			K
			DIST

EN-01062-1A-16-R972-1231

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CUSTOMER PRINT SET INDEX

SEQUENCE

SEQUENCE

~~THIS IS PRINT SET~~

UNIT VARIATIONS		PRINT SET	
VAR	TITLE		
11/04-HC	KD11-D, KY11-LA, M9312, M9302. MM11-DP DD11-P BA11-LK, 115V		
11/04 HD	KD11-D, KY11-LA, M9312, M9302 MM11-DP, DD11-P, BA11-LL, 230V		
11/04 MC	KD11-D, KY11-LA, M9312, M9302 MM11-DP (2), DD11-P, BA11-LK, 115V		
11/04-MD	KD11-D, KY11-LA, M9312, M9302 MM11-DP (2), DP11-P, BA11-LL, 230V		
11/04-HA	KD11-D, KY11-LA, M9312, M9302 MM11-C, DD11-P, BA11-LK, 115V		
11/04-HB	KD11-D, KY11-LA, M9312, M9302 MM11-C, DD11-P, BA11-LL, 230V		
11/04-DH	KD11-D, KY11-LA, M9312, M9302 MS11-JP, DD11-P, 7013323-0, 115V		
11/04-DJ	KD11-D, KY11-LA, M9312, M9302 MS11-JP, DD11-P, 7013323-3, 230V		
11/04-LH	KD11-D, KY11-LA, M9312, M9302 MS11-JP (2), DD11-P, 7013323-0, 115V		
11/04-LJ	KD11-D, KY11-LA, M9312, M9302 MS11-JP (2), DD11-P, 7013323-3, 230V		
11/04-HH	KD11-D, KY11-LA, M9312, M9302 MM11-DP, DD11-P, 7013323-2, 115V		
11/04-HJ	KD11-D, KY11-LA, M9312, M9302 MM11-DP-DD11-P, 7013323-5, 230V		
11/04-MH	KD11-D, KY11-LA, M9312, M9302 MM11-DP (2), DD11-P, 7013323-2, 115V		
11/04-MJ	KD11-D, KY11-LA, M9312, M9302 MM11-DP (2), DD11-P, 7013323-5, 230V		
11/04-DM	KD11-D, KY11-LA, M9312, M9302 MS11-JP, M7850, DL11-W, DD11-P, 7013323-0, 115V		

5.25 BOX
BA11-L

10.5 BOX
BA11-KA

REVISIONS		USED ON OPTION/MODEL	DRN.	DATE	TITLE			
DATE	CHG. NO.		G. MARINI	9-25-75	DRAWING DIRECTORY			
			CHK'D.	DATE	11/04			
			D. HEALY	9-30-75				
			PROJ ENG.	DATE				
			R. BARRY	10-22-75				
			PROG.	DATE	SIZE	CODE	NUMBER	REV
			R.K. PETERSON	10-22-75	B	CD	11/04 0	K
			FIELD SERV.	DATE				
		CHEET 2 OF 7			DIST			

EM-01082-1A-16-R972-13251

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DRAWING DIRECTORY

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CUSTOMER PRINT SET INDEX

SEQUENCE 77

77

SEQUENCE 77

~~THIS IS PRINT SET~~

10.5 BOX
Ball-KA

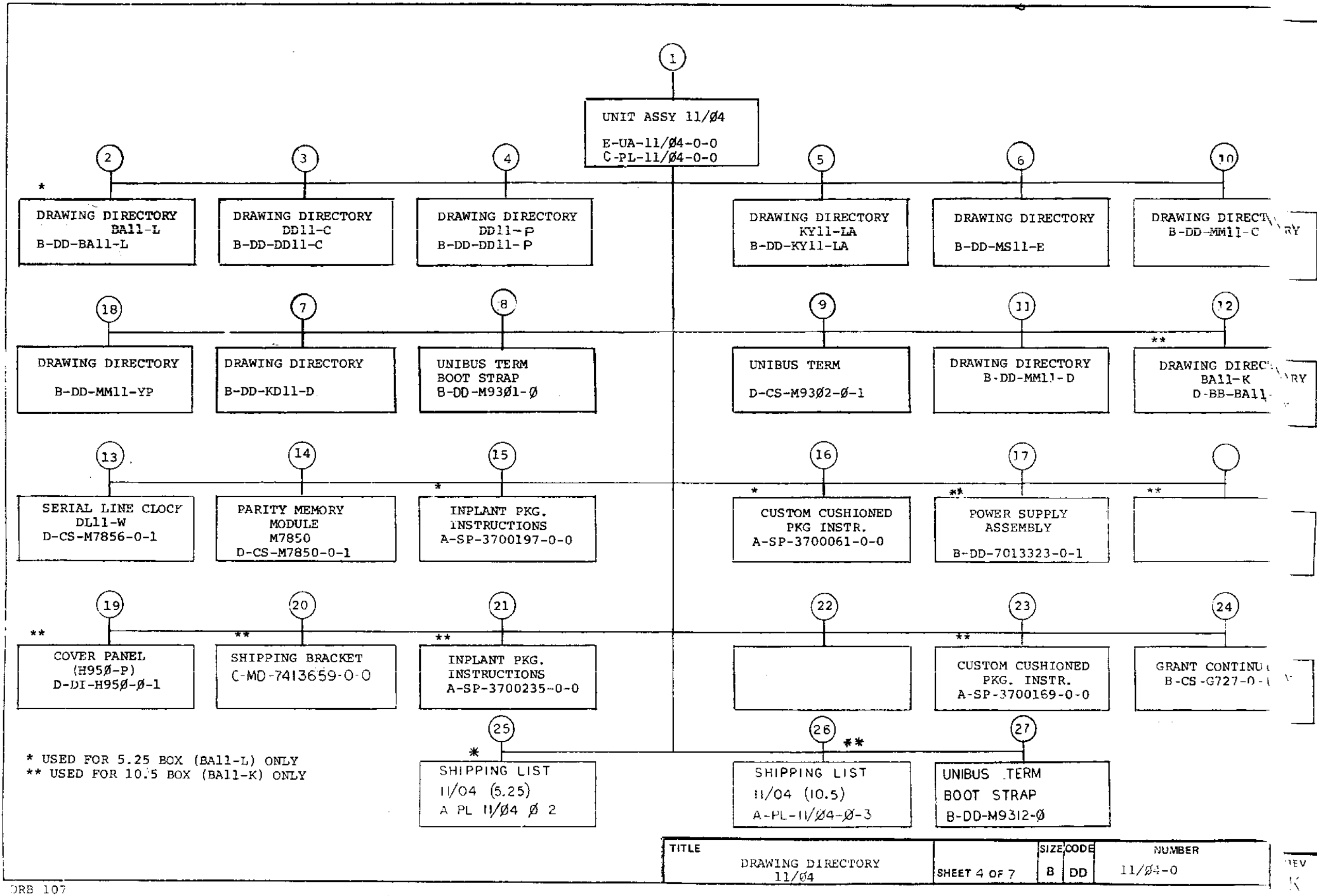
5.25 BOX
Ball-L

10.5 BOX
Ball-KA

UNIT VARIATIONS		PRINT SET			
VAR	TITLE				
11/04-DN	KD11-D KY11-LA M9312 , M9302				
	MS11-JP.M7850 DL11-W DD11-P				
	7013323-3, 230V				
11/04-HM	KD11-D KY11-LA M9312 , M9302				
	MM11-DP.M7850 DL11 W DD11 P				
	7013323-2, 115V				
11/04-HN	KD11-D KY11-LA.M9312 , M9302				
	MM11-DP.M7850 DL11-W DD11-P.				
	7013323-5, 230V				
11/04-JC	KD11-D, KY11-LA, M9312 , M9302,				
	MM11-YP, DD11-P, Ball-LK, 115V				
	11/04-JD	KD11-D, KY11-LA, M9312 , M9302,			
	MM11-YP, DD11-P, Ball-LL, 230V				
11/04-JH	KD11-D, KY11-LA, M9312 , M9302,				
	MM11-YP, DD11-P, 7013323-2, 115V				
	11/04-JJ	KD11-D, KY11-LA, M9312 , M9302,			
	MM11-YP, DD11-P, 7013323-5, 230V				

REVISIONS	REV		USED ON OPTION/MODEL	DAN G MARINI	DATE	TITLE	DRAWING DIRECTORY 11/04			
	CHG. NO.			CHK'D.	DATE					
	DATE			D HEALY	9-30-75					
				PROJ ENG.	DATE					
				R BARRY	10-22-75					
		PACD.	DATE	SIZE	CODE	NUMBER	REV			
		RK PETERSON	10-22-75	B	DD	11/04 0	K			
		FIELD SERV.	DATE	DIST						

EN-0106-1A-6-R9-77-12251



ELECTRICAL (SECTION 1)						ELECTRICAL (SECTION 1)							
CUSTOMER PRINT SET	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	OPTION NO./FILE DATE	CUSTOMER PRINT SET	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	OPTION NO./FILE DATE
		13	D-CS-M7856-0-1		9	SERIAL LINE/LINE CLOCK (DL11W)							
		14	D-CS-M7850-0-1		3	PARITY MEMORY MODULE (M7850)							
		17	B-DD-7013323-0-1		3	POWER SUPPLY ASSEMBLY							
		24	B-CS-G727-0-1		1	GRANT CONTINUITY							
		25	A-PL-11/04-0-2		1	SHIPPING LIST 11/04 (5.25)							
		26	A-PL-11/04-0-3		1	SHIPPING LIST 11/04 (10.5)							
		18	B-DD-MM11-YP		2	DRAWING DIRECTORY MM11-YP							
CUSTOMER PRINT SET CODES		X = PRINT OF DOCUMENT INCLUDED IN PRINT SET					TITLE		SIZE CODE		NUMBER		REV
		C = INCLUDES ALL PRINTS INDICATED ON DOCUMENT							8 DD		11/04-0		K
		S = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED											

DRB 108
 DEC 16 (1325) 1062-2B-R972

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MECHANICAL (SECTION 2)					MECHANICAL (SECTION 2)							
CUSTOMER PRINT SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	CUSTOMER PRINT SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO FILE DATE
							15	A-SP-3700197-0-0		3	INPLANT PKG. INSTRUCTIONS	
								A-PS-9905418-0-0		2	REGULAR SLOTTED CARTON	
								A-PS-9905754-0-0		2	BEZEL PROTECTOR	
	7	B-DD-KD11-D		2	DRAWING DIRECTORY KD11-D			A-PS-9905755-0-0		2	LAMINATED SADDLE	
								A-PS-9905129-0-7		1	POLY BAG	
								A-PS-9905729-0-0		1	TAPE	
							16	A-SP-3700061-0-0		4	CUSTOM CUSHIONED PKG. INSTR.	
								A-PS-9905647-0-0		2	FULL TELESCOPE CAP	
	8	B-DD-M9301-0		1	UNIBUS TERM BOOT STRAP			A-PS-9905648-0-0		2	FOAM PAD	
								A-PS-9905646-0-0		2	FOAM WITH CORRUGATED SIDEWALL	
								A-PS-9905734-0-0		2	PLASTIC STRAPPING	
								B-MD-7418879-0-0		2	STRIP, BEARING	
							17	B-DD-7013323-0-1		3	POWER SUPPLY ASSY	
							19	D-DI-H950-0-1		1	COVER PANEL 5 25 (H950 P)	
	9	D-CS-M9302-0-1		2	UNIBUS TERM		20	C-MD-7413659-0-0		1	SHIPPING BRACKET	
		K-CO-M9302-0-4			X-Y COORDINATE HOLE LOCATION							
		D-AH-M9302-0-5			ASSY/DRILLING HOLE LAYOUT							
		B-MH-M9302-0-6			MODULE ECO HISTORY							
		5011311			ETCHED CIRCUIT BOARD							
	10	B-DD-MM11-C		2	MEMORY, CORE 8K MM11-C		21	A-SP-3700235-0-0		3	INPLANT PKG. INSTRUCTIONS	
								A-PS-9905650-0-0		2	REGULAR SLOTTED CARTON	
								A-PS-9905889-0-0		2	BEZEL PROTECTOR	
								A-PS-9905644-0-0		2	REAR PAD	
								A-PS-9905323-0-0		2	LAMINATED SADDLE	
								A-PS-9905129-0-0		4	POLY BAG	
	11	B-DD-MM11-D		2	MEMORY, CORE 16K, MM11-D		18	B-DD-MM11-YP		2	DRAWING DIRECTORY MM11-YP	
	12	B-DD-BA11-K		4	MTG BOX 10.5							
	13	D-CS-M7856-0-1		9	SERIAL LINE CLOCK (DL11W)							
		K-CO-M7856-0-4		-	X-Y COORDINATE HOLE LOCATION							
		D-AH-M7856-0-5		1	ASSY/DRILLING HOLE LAYOUT							
		B-MH-M7856-0-6		1	MODULE ECO HISTORY							
		5011464		REF	ETCHED CIRCUIT BOARD							
	14	D-CS-M7850-0-1		3	PARITY MEMORY MODULE (M7850)		23	A-SP-3700169-0-0		2	CUSTOM CUSHIONED PKG. INSTR.	
		K-CO-M7850-0-4		-	X-Y COORDINATE HOLE LOCATION			A-PS-9905645-0-0		2	FULL TELESCOPE	
		D-AH-M7850-0-5		1	ASSY/DRILLING HOLE LAYOUT			A-PS-9905642-0-0		2	FOAM PAD	
		B-MH-M7850-0-6		1	MODULE ECO HISTORY			A-PS-9905643-0-0		2	FOAM/CORRUGATED SIDE WALL ASSY	
		5010651		REF	ETCHED CIRCUIT BOARD							
	27	B-DD-M9312-0		1	UNIBUS TERM BOOT STRAP		24	B-CS-G727-0-1		1	GRANT CONTINUITY	
								25	A-PL-11/04-0-2	1	SHIPPING LIST 11/04 (5.25)	
								26	A-PL-11/04-0-3	1	SHIPPING LIST 11/04 (10.5)	

CUSTOMER PRINT SET
 X = PRINT OF DOCUMENT INCLUDED IN PRINT SET
 C = INCLUDES CHANGES INDICATED ON DOCUMENT
 S = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED

TITLE
 DRAWING DIRECTORY 11/04
 SHEET 7 OF 7
 SIZE CODE 3 DD
 NUMBER 11/04-0
 REV K

DRB 108

EN-01062-28-16-R972-(325)

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FIELD MAINTENANCE PRINT SET

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TABLE OF CONTENTS

FIELD MAINTENANCE PRINT SET DL11-W
 SERIAL LINE/LINE CLOCK
 SLU/RTC OPTION
 SLU/RTC OPTION
 CABLE ASSY (KL8-E)
 CABLE MODEM BC05C
 CABLE ASSY
 INSTALLATION PROCEDURE

B-TC-DL11-W-1
 A-PL-DL11-W-0
 D-CS-M7856-0-1
 K-CS-M7856-0-9
 D-1A-700836C-0-0
 D-UA-RC05C-0-0
 D-UA-BCC3L-0-0
 A-SP-DL11-W-2

UNIT VARIATIONS
 COVERED BY THIS
 PRINT SET

DL11-W
DL11-WA
DL11-WB
DL11-WC

DL11-W
 Field Maintenance
 Print Set

Digital Equipment
 Corporation

PRINT SET ORDER NO.
 MP00100

REVISIONS	REV.	A	B	USED ON OPTIGN/MODEL	DRN.	DATE	TITLE:	FIELD MAINTENANCE PRINT SET DL11-W	
	CHG. NO.	DL11-W-1	DL11-W-2		CHK'D	DATE			
	DATE	8-77			PROJ. ENG.	DATE			
					FIELD SERV.	DATE			
SHEET 1 OF 1							digital		
SIZE	B	CODE	TC	NUMBER	DL11-W-1	REV.			
DIST.									

DRB 124

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DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS PARTS LIST				QUANTITY/VARIATION																
MADE BY		CHECKED		SECTION		DL11-W	DL11-MA	DL11-WB	DL11-WC											
D. HEALY		D. HEALY		1																
DATE		DATE		ISSUED SECT.																
25 MAR 76		25 MAR 76		1																
ENG		PROD																		
R.E. BRATT		K. MACDONALD																		
DATE		DATE																		
1 APR 76		7-APR-76																		
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION																		
1	D-CS-M7856-Ø=1	SLU/RTC OPTION						1	1	1	1									
2	D-1A-7008360-1-0	CABLE ASSY (KL8-E)						-	1	-	-									
3	D-UA-BCØ5C-25-0	CABLE MODEM BCØ5C						-	-	1	-									
4	D-UA-BCØ3L-10-0	CABLE ASSY						-	-	-	1									
5	2376ØA9 *	BOOTSTRAP ROM						1	1	-	1									
6	9906228 *	BOX ROM						1	1	-	1									
		* 1. THE ROM AND ROM BOX WILL BE ADDED AT FA+T. 2. THE ROM AND ROM BOX ARE TO BE SHIPPED ONLY IF AN LT33 OPTION IS SHIPPED WITH A UNIBUS 11 SYS- TEM.																		
TITLE SERIAL LINE/LINE CLOCK DL11-W				ASSY NO. NONE		SIZE CODE A PL		NUMBER DL11-W-Ø				REV C	ECO NO DL11W 00004							
				SHEET 1 OF 1		DIST.														

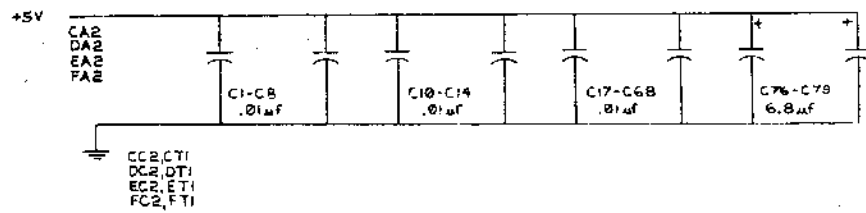
DEC FORM DEC 16 (227) 1975 NS70
ORA 110

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NOTES:

1-2-2004 V1 2



IC TYPE	QTY	REV
IC 8641	8	1b
IC 834	1	2
IC 837	8	16
IC 24A	1	8
IC 74 22	5	16
IC 74157	5	16
IC 74153	5	16
IC 7493	12	3
IC 7492	10	5
IC 74151	2	16
IC 74173	5	16
IC UART	1	3
IC 8057	5	16

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

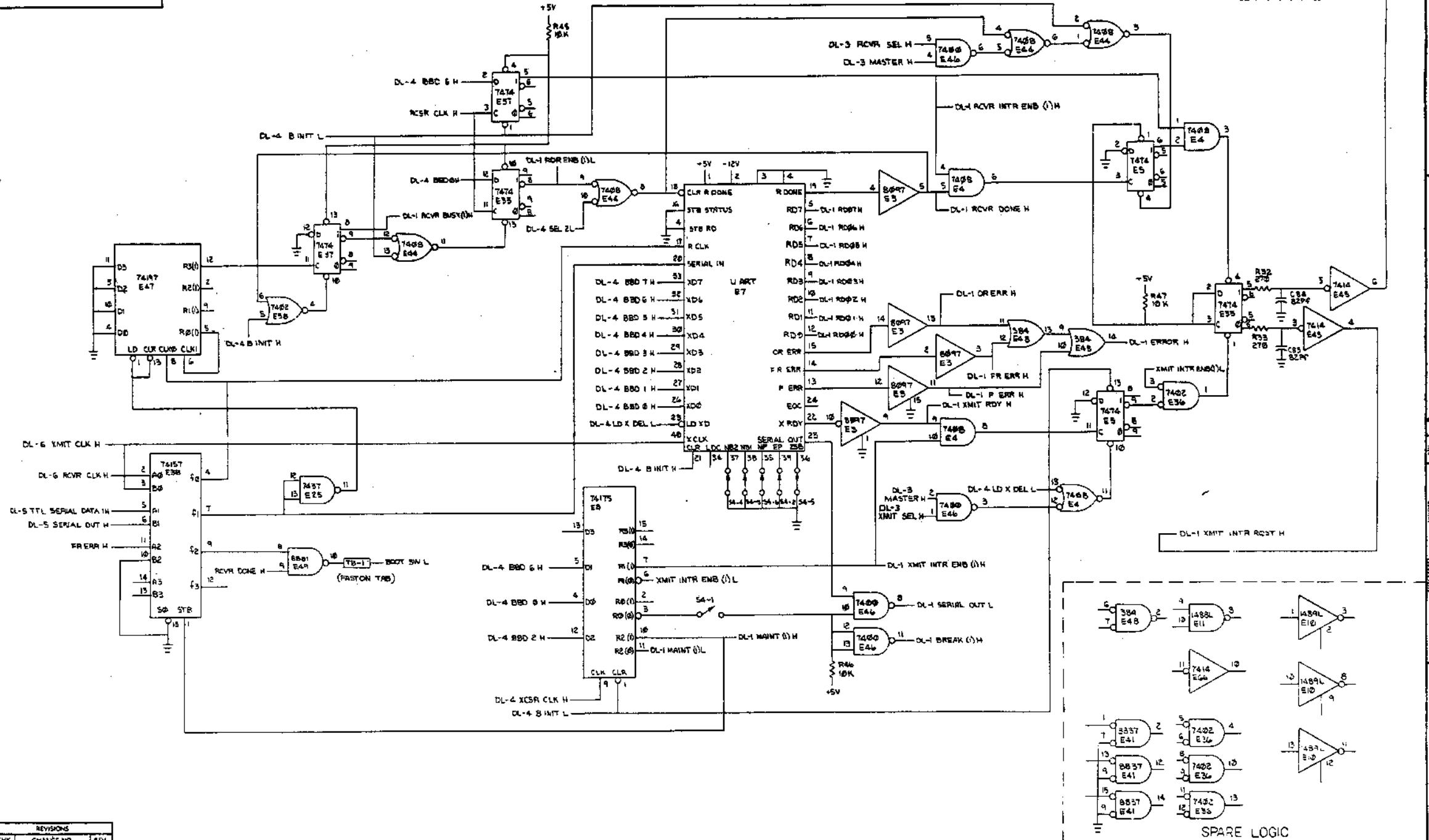
FIRST USED ON OPTION MODEL		QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST						
ETCH BOARD REV.		E				
DRG	DATE	2/23/76				
CHG	DATE	3-2-78				
DRG	DATE	1-1-78				
PROJ. ENG.	DATE	1-1-78				
PROD.	DATE	6-23-77				
NEXT HIGHER ASSY						
DEC NO.	ISA NO.	DEC NO.	ISA NO.	SCALE	SIZE CODE	NUMBER
					DCS	M7856-0-1
SEMICONDUCTOR CONVERSION CHART				SHEET	OF	8
				CHG.		

digital

TITLE
SLU/RTC OPTION

399

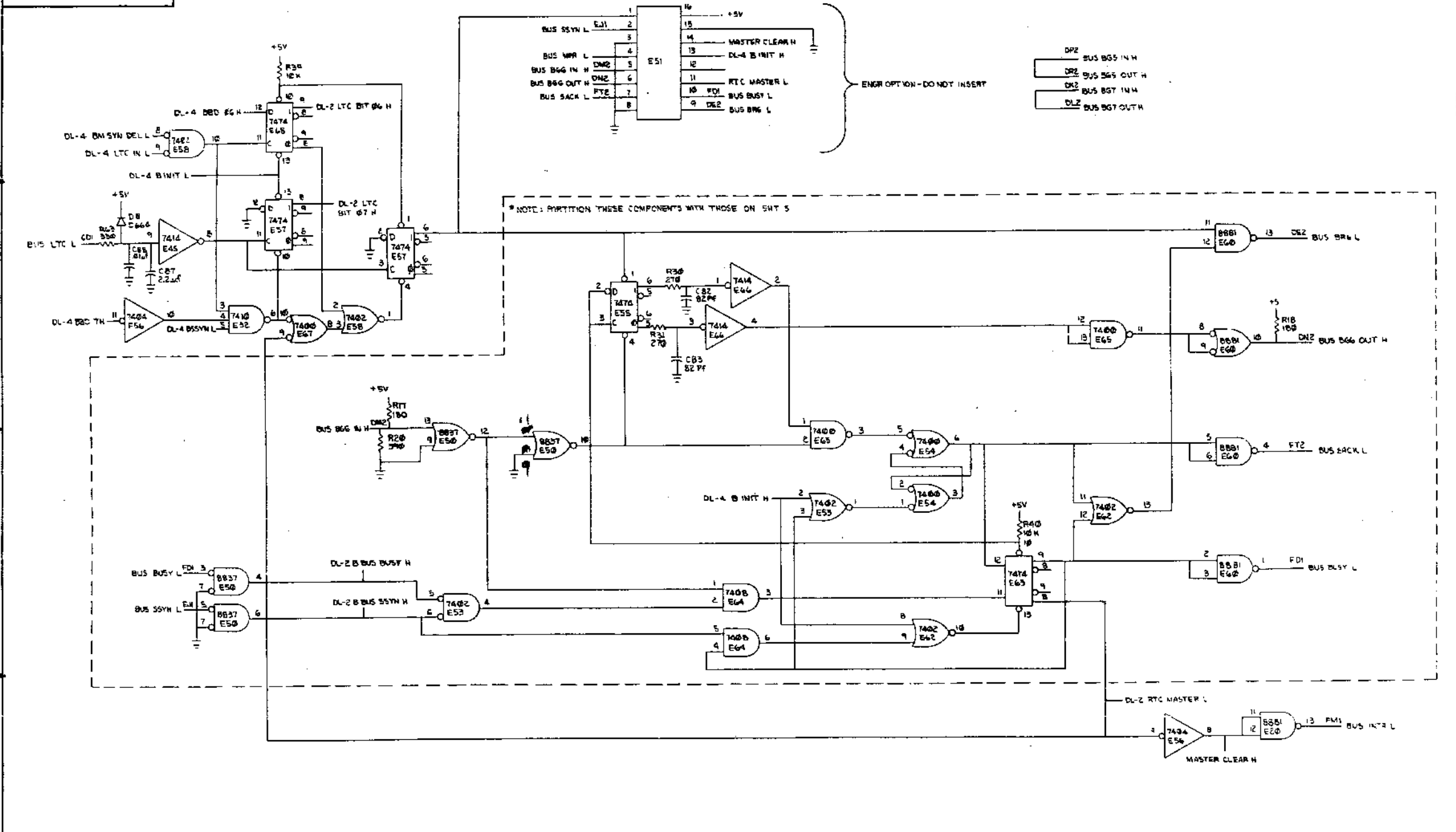
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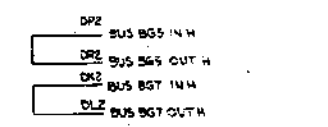
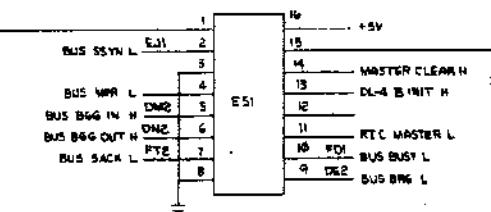
REVISIONS			TITLE		SIZE	CODE	NUMBER	REV.
CHK	CHANGE NO.	REV.	SLU/RTC OPTION (DL-1)		D	CS	M7856-6-1	H

400

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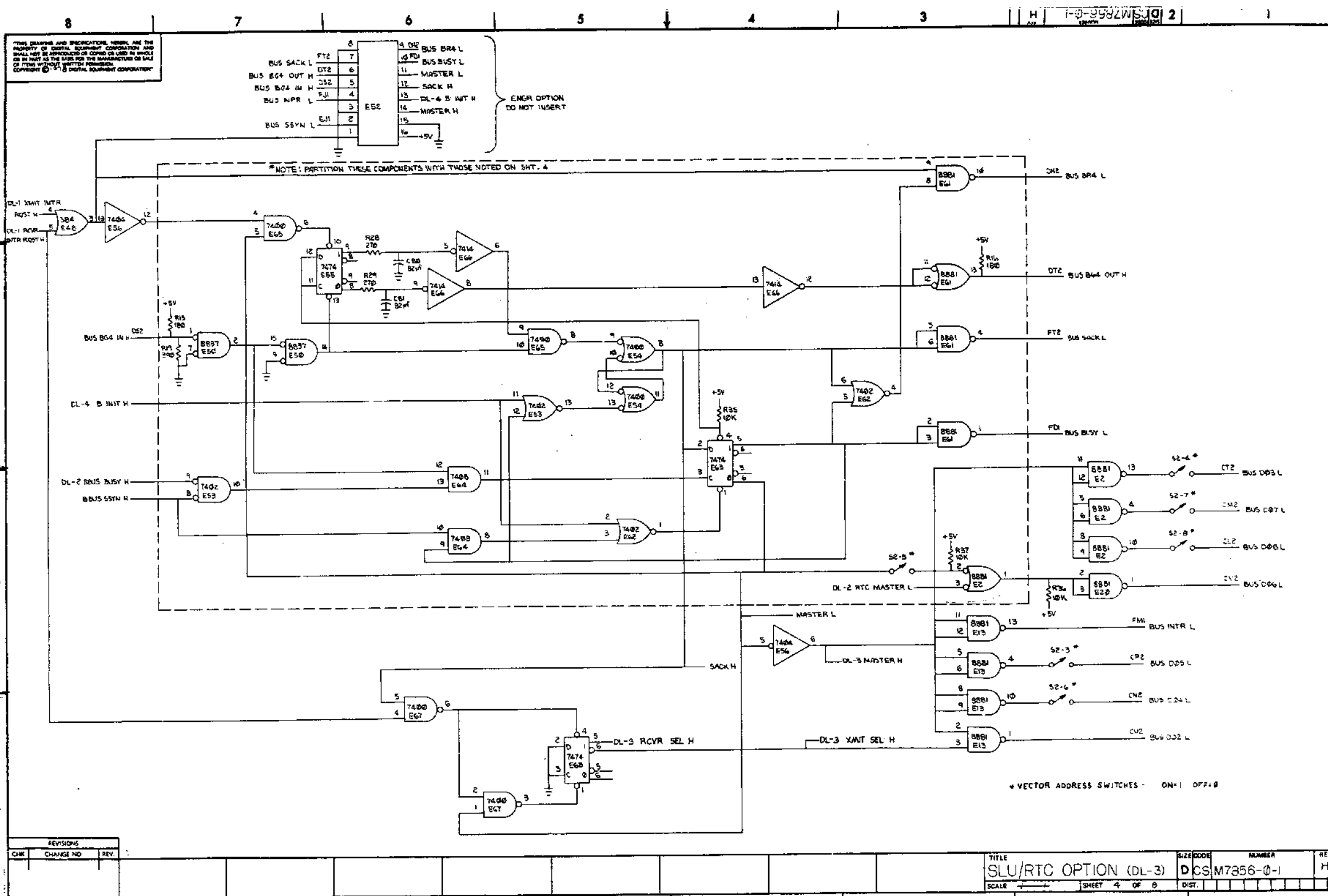
*NOTE: PARTITION THESE COMPONENTS WITH THOSE ON SMT 5



REVISIONS			TITLE		SIZE/CODE		NUMBER		REV.
CHK.	CHANGE NO.	REV.	SLU/RTC OPTION (DL-2)		D		CS M7856-0-1		H
			SCALE	1	SHEET	3	OF	8	

DEC FORM NO. 8 7 6 5 4 3 2 1

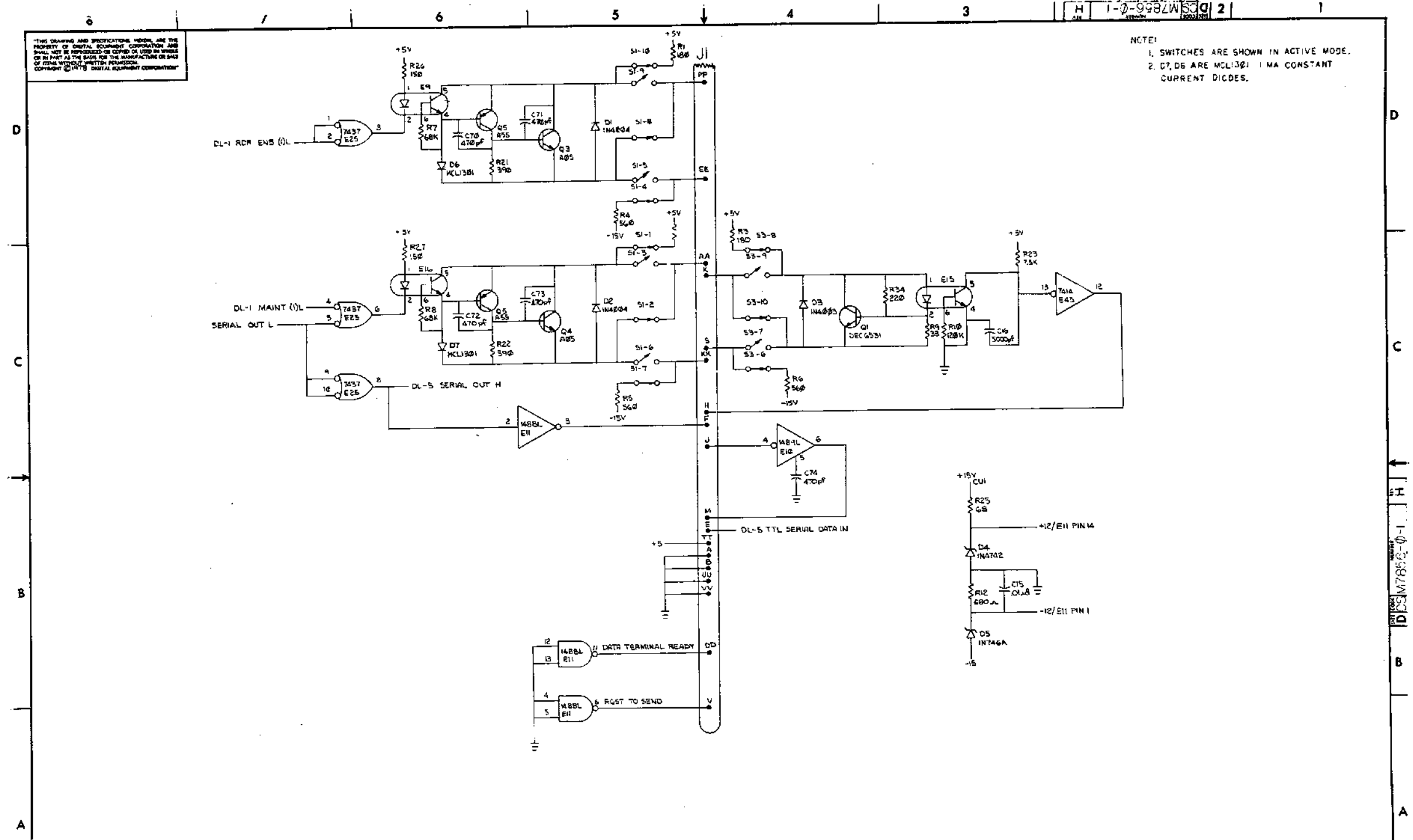
401



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NOTE:
 1. SWITCHES ARE SHOWN IN ACTIVE MODE.
 2. D7, D8 ARE MCL1301 1 MA CONSTANT CURRENT DIODES.



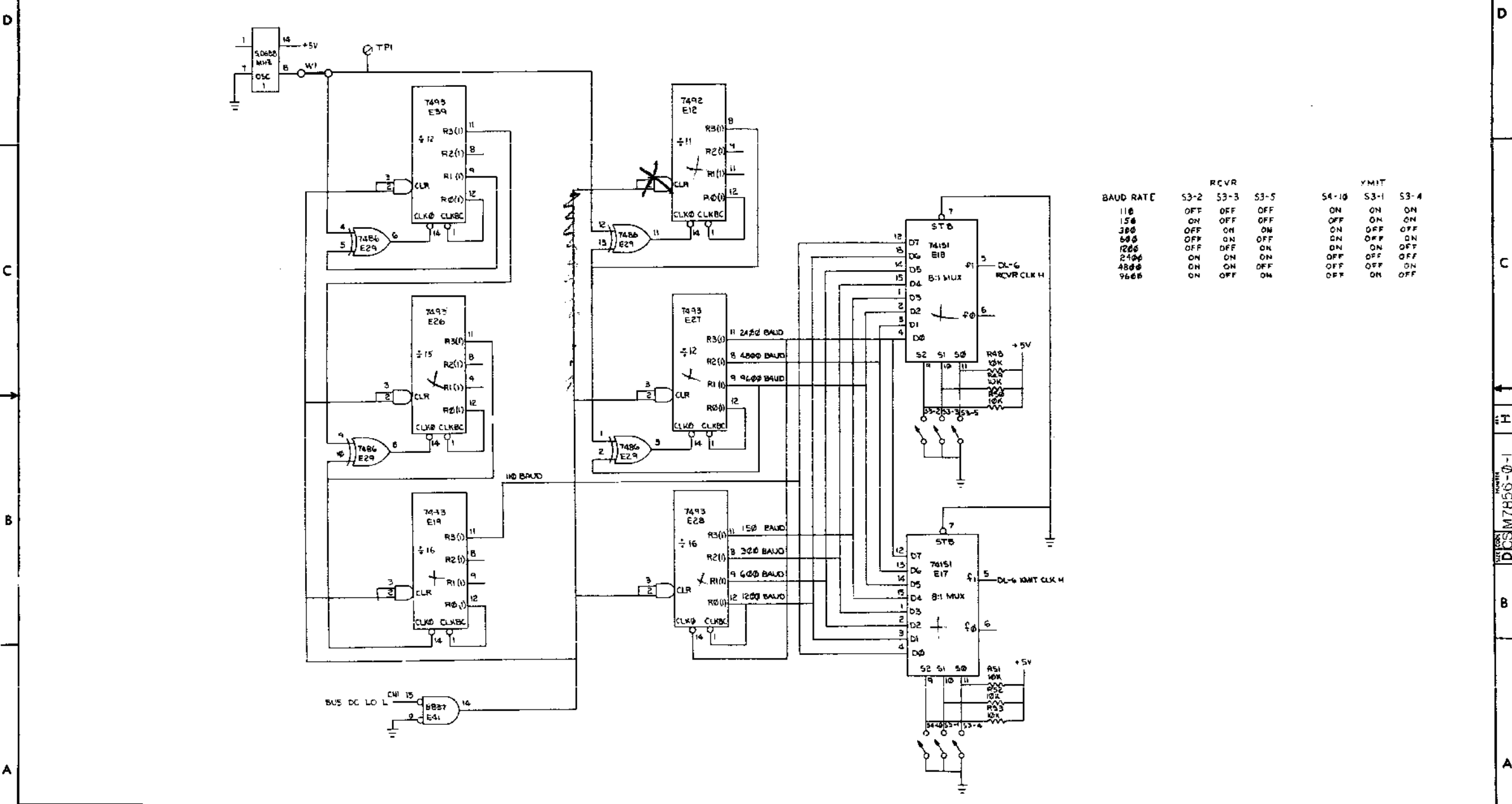
REVISIONS		
CHK	CHANGE NO	REV

TITLE	SIZE CODE	NUMBER	REV.
SLU/RTC OPTION (DL-5)	D	CS M7356-0-1	H
SCALE	SHEET 6 OF 8	DIST.	

8 7 6 5 4 3 2 1

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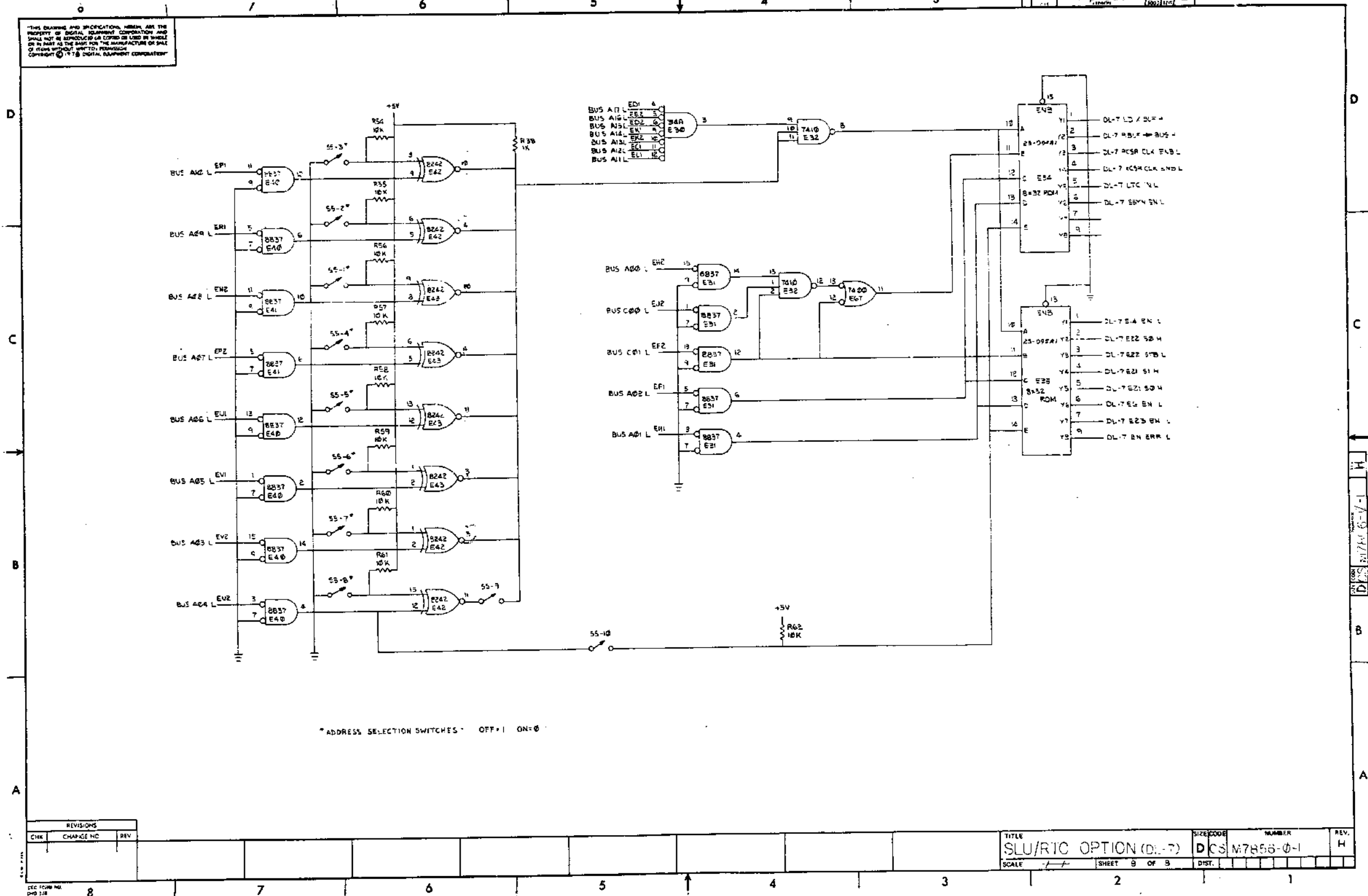
BAUD RATE	RCVR			YMIT		
	S3-2	S3-3	S3-5	S4-10	S3-1	S3-4
110	OFF	OFF	OFF	ON	ON	ON
150	ON	OFF	OFF	OFF	ON	ON
300	OFF	ON	ON	ON	OFF	OFF
600	OFF	ON	OFF	ON	OFF	ON
1200	OFF	OFF	ON	ON	ON	OFF
2400	ON	ON	ON	OFF	OFF	OFF
4800	ON	ON	OFF	OFF	OFF	ON
9600	ON	OFF	ON	OFF	ON	OFF

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SLU/RTC OPTION (DL-6)	SIZE/CODE	D CS M7856-0-1	NUMBER		REV.	H
SCALE		SHEET	7 OF 8	DIST.			

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REV. 2
 SIZE CODE KCS
 NUMBER 6-0-9587W

(FOR 23094A1-A07 & 23095A1-A07)

DESCRIPTION	DWG./PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES
SURFACE QUALITY IN MICROINCHES	MEDIUM <input type="checkbox"/>	OVER 0 TO 0.2 OVER 0.2 TO 1.2 OVER 1.2 TO 4.0 OVER 4.0 TO 12.0 OVER 12.0 TO 30.0 OVER 30.0 TO 50.0
	PREFERRED <input type="checkbox"/>	±.004 ±.008 ±.012 ±.016 ±.024 ±.04 ±.012 ±.016 ±.025 ±.04 ±.063 ±.1

THIRD ANGLE PROJECTION 	DRN. <i>7-207</i>	FIRST USED ON
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D <i>7-207</i>	DLII-W digital
DO NOT SCALE DWG	ENG. <i>7-207</i>	TITLE
MATERIAL <i>+</i>	PROJ. ENG. <i>7-207</i>	ROM LISTING
FINISH <i>+</i>	PROD. <i>7-207</i>	
	NEXT HIGHER ASSY.	
	D-CS-M7356-0-1	SIZE CODE NUMBER REV.
	SCALE <i>+</i>	KCS M7856-0-9
	SHEET 1 OF 3	DIST.

REV.	NO.
CHANGE NO.	
DATE	

DEC 15 (325)-1030-1B-R275
 DRN 100A

407

1
DEC PART NUMB: 23094A1-A07
ORIGINATOR: BOB PRATT
DATE OF ORIGIN: 2/28/75

ROM PATTERN SPEC

PAGE 2 OF 3

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
0	00	00111100	074
1	01	00111100	074
2	02	00111100	074
3	03	00111100	074
4	04	00111100	074
5	05	00111100	074
6	06	00111100	074
7	07	00111100	074
8	10	00111100	074
9	11	00111100	074
10	12	00111100	074
11	13	00111100	074
12	14	00001100	014
13	15	00111100	074
14	16	00011100	034
15	17	00111100	074
16	20	00011000	030
17	21	00111100	074
18	22	00011100	034
19	23	00111100	074
20	24	00010100	024
21	25	00111100	074
22	26	00011100	034
23	27	00111100	074
24	30	00011100	034
25	31	00111100	074
26	32	00011110	036
27	33	00111100	074
28	34	00011101	035
29	35	00111100	074
30	36	00011100	034
31	37	00111100	074

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1
DEC PART NUMB: 23-095A1-A07
ORIGINATOR: BOB PRATT
DATE OF ORIGIN: 2/28/75

ROM PATTERN SPEC

PAGE 3 OF 3

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
0	00	11111111	377
1	01	11111111	377
2	02	11111111	377
3	03	11111111	377
4	04	11111111	377
5	05	11111111	377
6	06	11111111	377
7	07	11111111	377
8	10	11111111	377
9	11	11111111	377
10	12	11111111	377
11	13	11111111	377
12	14	11011111	337
13	15	11111111	377
14	16	11111111	377
15	17	11111111	377
16	20	10001111	217
17	21	11111111	377
18	22	11111111	377
19	23	11111111	377
20	24	11010001	321
21	25	11111111	377
22	26	11111111	377
23	27	11111111	377
24	30	01000010	102
25	31	11111111	377
26	32	11111111	377
27	33	11111111	377
28	34	11111111	377
29	35	11111111	377
30	36	11111111	377
31	37	11111111	377

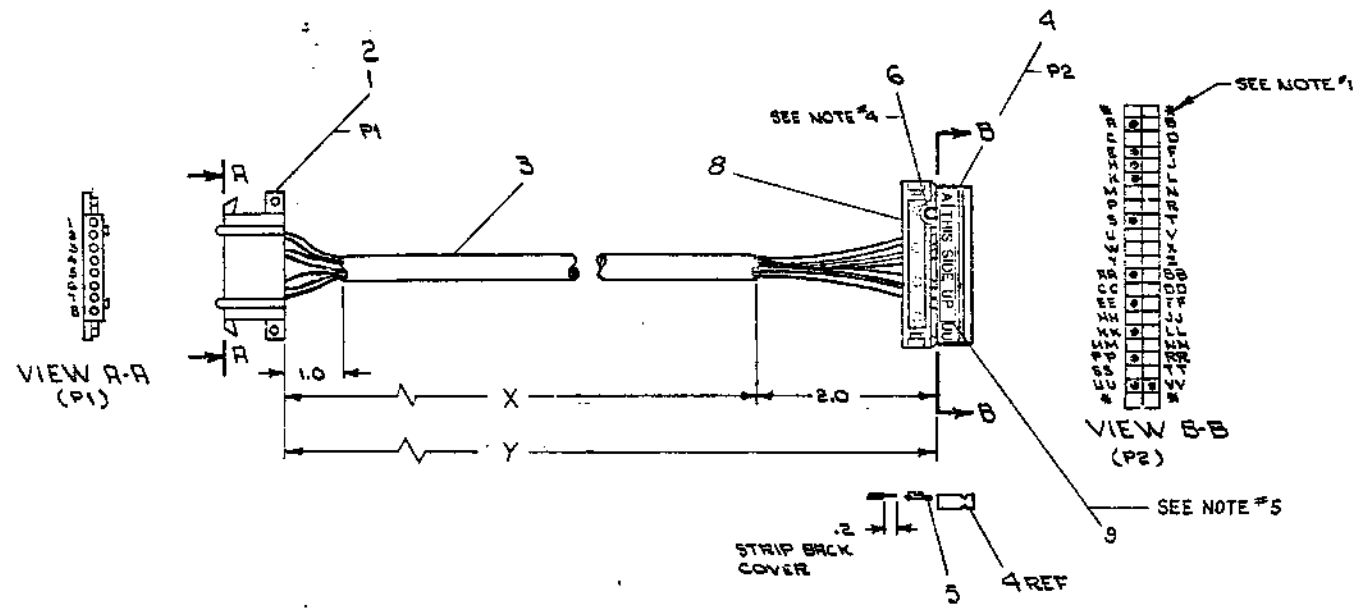
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WIRE TABLE						
ITEM NO.	AWG	COLOR	PAIR NO.	FROM CONNECTION WITH	TO CONNECTION WITH	
3	22	BLK	1	P1-2	P2-KK	5
3		RED	1	P1-3	P2-S	
3,7		SHIELD		SEE NOTE #2	P2-R(NOTE 3)	
3		BLK	2	P1-4	P2-EE	
3		WHT	2	P1-5	P2-RR	
3,7		SHIELD		SEE NOTE #2	P2-UU(NOTE 3)	
3		BLK	3	P1-6	P2-PP	
3		GRN	3	P1-7	P2-K	
3,7		SHIELD		SEE NOTE #2	P2-VV(NOTE 3)	
6	22	BLK	-	P2-E	P2-H	5

LEGEND			
VARIATION	LENGTH		
	X	Y	Z
7008360-0	25IN±10	27IN±10	
7008360-1	42IN±10	48IN±10	
7008360-9	9FT±2IN	9FT±2IN ± 2IN	

- NOTES:**
- * ASTERISKS INDICATE CAVITIES NOT USED OR DESIGNATED BY LETTERS.
 - DRAIN WIRES TO BE CUT BACK TO OUTER INSULATION ON P1 END OF CABLE ONLY. SHIELDS TO BE CUT BACK TO OUTER INSULATION ON BOTH ENDS OF CABLES.
 - DRAIN WIRES ON P2 END OF CABLE TO BE EACH ENCLOSED WITH ITEM #7 (TUBING) FROM END OF CABLE JACKET TO POINT WHERE THEY ENTER P2 CONNECTOR.
 - ITEM #6 (WIRE) TO BE APPROXIMATELY ONE(1) INCH LONG.
 - PLACE ITEM #9 (THIS SIDE UP) STICKER ON LETTERED SIDE OF ITEM #4 (BERG HOUSING) AS SHOWN.



QTY	DESCRIPTION	UNIT	QTY
1	LABEL THIS SIDE UP		361567
1	STRAIN RELIEF		121166
1	AIR TUB. 1/8" I.D. THIN WALL WRT		910729-11
1	AIR WIRE 22 AWG STRD TEF BLK		9107350-00
11	SOCKET, CRIMP #47216		1210089-07
1	HOUSING BERG #450 P2-015		1210318-15
1	AIR CTBL. REINFORC. STRIPRAL SHLD		9107723-0
2	CONTACT WATER-LOCK (FEMALE)		1009379-09
1	CONNL WATER-LOCK (FEMALE)		1009740-00

REV	DATE	BY	CHKD	DESCRIPTION
1	10/1/75	J. M. MAMARA		ISSUED FOR PRODUCTION
2	10/1/75	J. M. MAMARA		REVISED TO ADD PARTS LIST
3	10/1/75	J. M. MAMARA		REVISED TO ADD DIMENSIONS
4	10/1/75	J. M. MAMARA		REVISED TO ADD MATERIALS
5	10/1/75	J. M. MAMARA		REVISED TO ADD FINISH
6	10/1/75	J. M. MAMARA		REVISED TO ADD TOLERANCES
7	10/1/75	J. M. MAMARA		REVISED TO ADD PARTS LIST
8	10/1/75	J. M. MAMARA		REVISED TO ADD DIMENSIONS
9	10/1/75	J. M. MAMARA		REVISED TO ADD MATERIALS
10	10/1/75	J. M. MAMARA		REVISED TO ADD FINISH
11	10/1/75	J. M. MAMARA		REVISED TO ADD TOLERANCES
12	10/1/75	J. M. MAMARA		REVISED TO ADD PARTS LIST
13	10/1/75	J. M. MAMARA		REVISED TO ADD DIMENSIONS
14	10/1/75	J. M. MAMARA		REVISED TO ADD MATERIALS
15	10/1/75	J. M. MAMARA		REVISED TO ADD FINISH
16	10/1/75	J. M. MAMARA		REVISED TO ADD TOLERANCES
17	10/1/75	J. M. MAMARA		REVISED TO ADD PARTS LIST
18	10/1/75	J. M. MAMARA		REVISED TO ADD DIMENSIONS
19	10/1/75	J. M. MAMARA		REVISED TO ADD MATERIALS
20	10/1/75	J. M. MAMARA		REVISED TO ADD FINISH

FIRST USED ON OPTION/MODEL: FDP-8E

UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES

TOLERANCES: ANGLES ± 0.005, FINISH ± 0.005, REMOVE BURRS AND BREAK SHARP EDGES

MATERIAL: SEE PARTS LIST

SCALE: NONE

DATE: 10/1/75

BY: J. M. MAMARA

CHKD: J. M. MAMARA

APPROVED: J. M. MAMARA

TITLE: CABLE ASSEMBLY (KL8E)

PROJECT: A-ML-KL8-E-0

SCALE: NONE

DATE: 10/1/75

BY: J. M. MAMARA

CHKD: J. M. MAMARA

APPROVED: J. M. MAMARA

EQUIPMENT CORPORATION

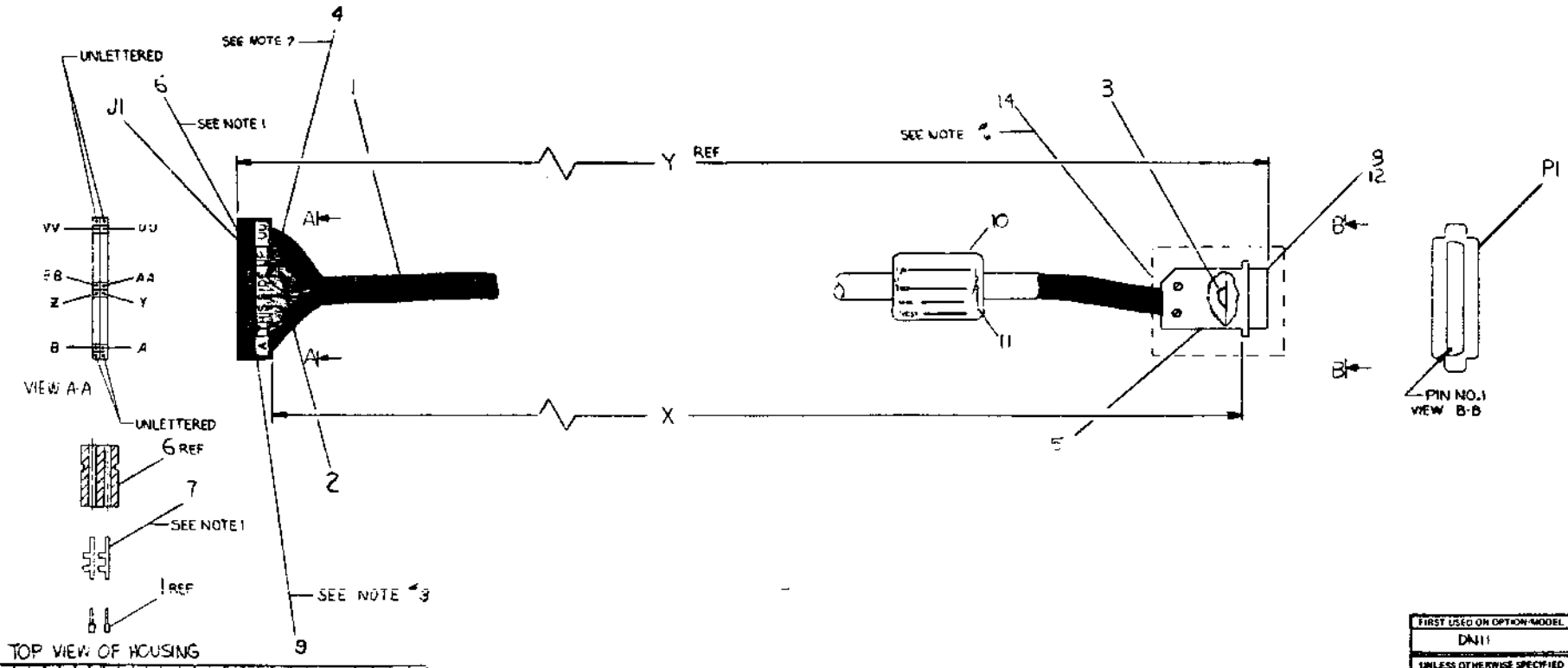
8 7 6 5 4 3 2 1

WIRE TABLE									
ITEM NO.	DESCRIPTION	FROM	TO	ITEM NO.	DESCRIPTION	FROM	TO		
1	ZG	BLU/WHT	PI-1	1	ZG	RED/BRN	PI-1G		
2		WHT/BLU	PI-2	2		SLA	PI-17		
3		ORN/WHT	PI-3	3		RED/SLA	PI-18		
4		WHT/ORN	PI-4	4		BLU/BLK	PI-19		
5		GRN/WHT	PI-5	5		BLK/BLU	PI-20		
6		WHT/GRN	PI-6	6		ORN/BLK	PI-21		
7		BRN/WHT	PI-7	7		BLK/ORN	PI-22		
8		WHT/BRN	PI-8	8		GRN/BLK	PI-23		
9		SLA/WHT	PI-9	9		BRN/RED	PI-24		
10		WHT/SLA	PI-10	10		RED/ORN	PI-25		
11		BLU/RED	PI-11	11		SHIELD	PI-1		
12		RED/BLU	PI-12	12		SHIELD	PI-7		
13		ORN/RED	PI-13	13		BLK	PI-1		
14		SLA/RED	PI-14	14		RED	PI-E		
15		SLA/GRN	PI-15	15					

NUMBER	VARIATION	
	DIM X	DIM Y (PRECUT)
BC05C-23	25±3"	25±1.8"
BC05C-50	50±2%	50±1.8"
BC05C-09	9±3"	9±1.8"
BC05C-1F	16±3"	19.8"

- NOTES:
- MANUFACTURING SHOULD USE MACHINE CRIMPER TOOL FOR CRIMPING PINS (ITEM #7) MUST BE HT68 FROM BERG ELECT
 - ONLY DEC PART #1210918-15 MAY BE USED AS J1.
 - PLACE ITEM #9 ("THIS SIDE UP" STICKER) ON LETTERED SIDE OF ITEM #6 (BERG HOUSING) AS SHOWN.
 - USE ITEM #1 (HOOD) OVER PINS (PI-1 TO PI-7) TO PREVENT SHORTING
 - USE ITEM #2 (SOLDER CUPS) ON ALL REMAINING SOLDER CUPS TO PREVENT SOLDERING.
 - DUE TO TOLERANCES WITH DIFFERENT WIRE SIZES (ITEM #3) MAY VARY IN OUTSIDE DIAMETER CAUSING POTENTIAL STRAIN RELIEF CRIMPING PROBLEM SHOULD THIS CONDITION BE RECURRENT USE ITEM #4 (940783+) AT JUNCTION OF CABLE AND HOOD
 - PLACE ITEM #4 (9107256) OVER SHIELD WIRE J1-A, J1-B, PI-1, PI-7.

* DENOTES THREE WIRES ARE SOLDERED INTO THE PI-1 SOLDER CUP
 ** DENOTES THREE WIRES ARE SOLDERED INTO THE PI-7 SOLDER CUP



ITEM NO.	DESCRIPTION	PART NO.	ITEM NO.
1	HOOD	12109950	15
A/R	TAPE, DOUBLE S SDED	9007034	14
1	MALE SCREW	12109951	13
2	PIN CONTACT	12109952	12
2	TE WAFER	9007031	11
1	CABLE LABEL	9009532	10
1	LABEL, THIS SIDE UP	3611567	9
23	PIN 20-28 AWG	1210993-43	8
29	SOCKET, HT-68	1210889-5	7
1	HOUSING, #20383 BERG	1210918-15	6
1	SHELL AND INSET MALE	1210993-31	5
A/R	TUBING, #22 AWG TEF BLK	9107256-02	4
A/R	WIRE, #26 AWG STRD TEF BLK	9107636-00	3
A/R	WIRE, #26 AWG STRD TEF RED	9107636-07	2
A/R	CABLE, 25 CONDUCTOR #26 AWG	9107736	1

FIRST USED ON OPTION MODEL		PARTS LIST	
DUAL		EQUIPMENT CORPORATION	
UNLESS OTHERWISE SPECIFIED THIS DRAWING IS IN INCHES		TITLE	
TOLERANCES		CABLE, MODEM	
DECIMALS	ANGLES	BC05C	
±.010	±.030	SIZE CODE	
±.015	±.045	NUMBER	
±.020	±.060	REV.	
±.030	±.090	DUA BC05C-0-0 H	
±.040	±.120	SCALE	
±.050	±.150	NO. 1	
±.060	±.180	SHEET 1 OF 1	
±.070	±.210	DIST.	
±.080	±.240		
±.090	±.270		
±.100	±.300		

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

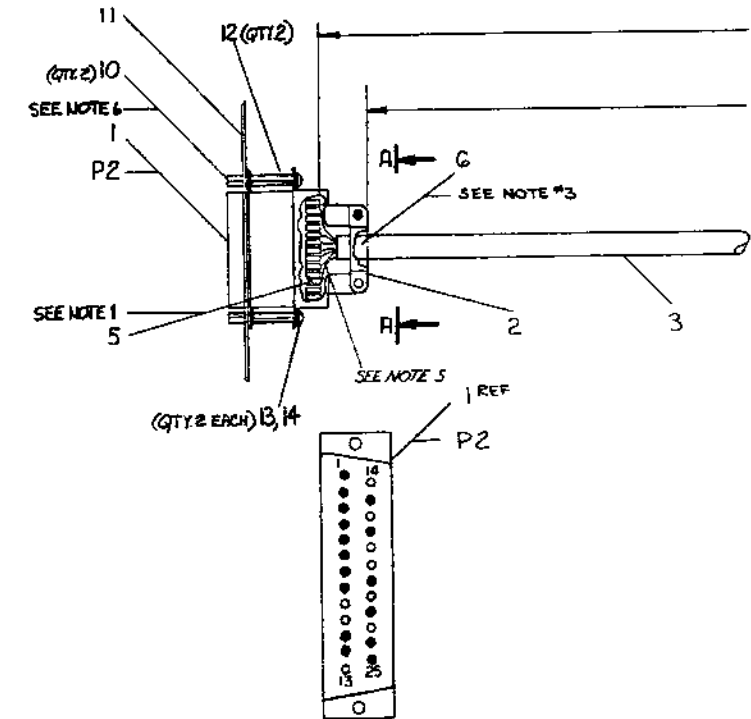
4/11

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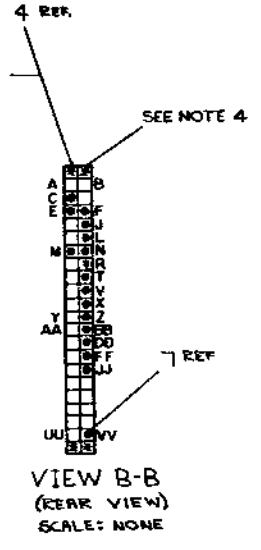
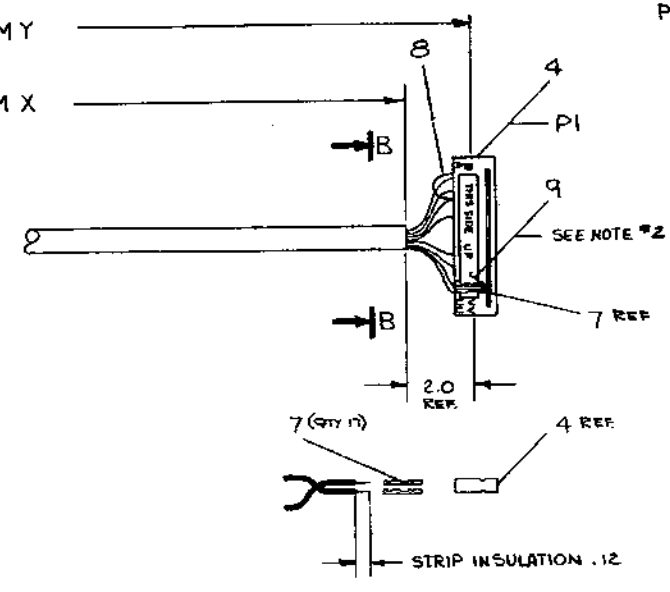
WIRE TABLE						
ITEM NO	AWG	COLOR	FROM	WITH	TO	WITH
3	22	BLK	P1-VV	7	P2-7	SOLDER
		GRN/WHT	P1-C		P2-25	
		GRN/BLK	P1-JJ		P2-12	
		ORN/BLK	P1-FF		P2-11	
		RED	P1-DD		P2-20	
		GRN	P1-BB		P2-8	
		BLK/WHT	P1-E		P2-6	
		ORN	P1-X		P2-22	
		BLU	P1-V		P2-4	
		WHT	P1-T		P2-5	
		BLK/BLK	P1-R		P2-17	
		BLK/WHT	P1-N		P2-15	
		RED/WHT	P1-L		P2-24	
		WHT/BLK	P1-J		P2-3	
3		GRN/BLK	P1-F		P2-2	SOLDER
8		BLK	P1-E	7	P1-M	7
8	22	BLK	P2-1	SOLDER	P2-7	SOLDER

NUMBER	VARIATION	
	DIM X	DIM Y PRECUT
BC03L-10	10FT ± 2IN	10FT, 5IN
BC03L-5	5FT ± 2IN	5FT, 5IN
BC03L-1K	1FT 9IN ± 1IN	2FT
BC03L-01	1FT ± 1IN	1FT, 3IN

- NOTES:
- EACH SOLDERED CONN ON P2 SHALL BE INSULATED WITH A .25 PIECE OF SHRINK TUBING (ITEM #5).
 - PLACE ITEM #9 (THIS SIDE UP STICKER) ON LETTERED SIDE OF ITEM #4 (CONN HOUSING) AS SHOWN.
 - FOR STRAIN RELIEF WRAP 2 TURNS OF TAPE (ITEM #6) AROUND CABLE (ITEM #3) AS SHOWN.
 - PINS MARKED * IN VIEW B-B ARE NOT USEABLE.
 - WIRES COMING FROM CENTER OF PLUG CONN SHOULD BE 3/8" LG, ALL OTHERS SHOULD BE CONFINED INTO HOOD OF CONN, SO THAT THEY'RE NOT BUNCHED.
 - PLACE LOCK WASHER (SUPPLIED WITH ITEM #10) BETWEEN SPACER AND CONNECTOR PLATE. DISCARD NUT (QTY 2) SUPPLIED WITH ITEM #10.



VIEW A-A (REAR VIEW) SCALE: NONE



VIEW B-B (REAR VIEW) SCALE: NONE

QTY	DESCRIPTION	DWG PART NO.	ITEM NO.
2	WASHER, LOCK #4	100668B	M
2	SCR PHL PAN HD #4-40 X .25	900830-1	B
2	SPACER, THREADED, HEX	9008833	12
1	PLATE, CONN. MFG.	B-MD-7414072-0-011	
2	SCREW, LOCK NUTS	9008451-00	10
1	LABEL (THIS SIDE UP)	3611567	9
SDM	WIRE, STRANDED #22AWG TPVC (BLK)	9107350-00	8
17	SOCKET, CRIMP	1210089-07	7
1/4"	TAPE, DOUBLE SIDED .50 W.D.	9007834	6
16	TUBING, HEAT SHRINK .12	9107255-09	5
1	CONN, 44 POS, HSG.	1210818-15	4
1/4"	CABLE, 15 COND, 22AWG	9107672-00	3
1	HOOD, CONN.	1212516-00	2
1	CONNECTOR, PLUG, FILTERED	1214031-00	1

REV	DATE	BY	CHKD	DESCRIPTION
1				INITIAL DESIGN
2				REVISED TO ADD...
3				REVISED TO ADD...
4				REVISED TO ADD...
5				REVISED TO ADD...
6				REVISED TO ADD...
7				REVISED TO ADD...
8				REVISED TO ADD...
9				REVISED TO ADD...
10				REVISED TO ADD...
11				REVISED TO ADD...
12				REVISED TO ADD...
13				REVISED TO ADD...
14				REVISED TO ADD...
15				REVISED TO ADD...
16				REVISED TO ADD...
17				REVISED TO ADD...
18				REVISED TO ADD...
19				REVISED TO ADD...
20				REVISED TO ADD...

QUANTITY & VARIATION

DESCRIPTION	DWG PART NO.	ITEM NO.
...

DATE: 10/11/80

TITLE: FILTERED CABLE ASSY BC03L

SCALE: 1/1

SIZE: D

CODE: UA

NUMBER: BC03L-00

REV: F

472

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

ENGINEERING SPECIFICATION

TITLE DL11-W Installation Procedure DATE 2-28-77

REVISIONS						
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE
A	ECO CHANGE	0002	B. CRAMM	8-77	B. CRAMM	8-77

ENG: Rob Pratt APPD: R.P. NUMBER: DL11-W-2 REV: A
DEC FORM NO DEC 14-1041-1027-0318 SHEET 1 OF 8

ENGINEERING SPECIFICATION

TITLE DL11-W Installation Procedure CONTINUATION SHEET

DL11-W Installation Procedure

Installation of the M7956 module consists of the following preparations:

- 1) Switch selection of the address mode and register addresses.
- 2) Switch selection of vector address.
- 3) Switch selection of data format.
- 4) Switch selection of receiver and transmitter baud rates.
- 5) Switch selection of operation mode for the current loops.
- 6) Additional switch selections for compatibility.
- 7) Installation of G5000 in systems where +15V is not available.

NOTE: The notation used to indicate a particular switch is as follows: SX-Y where X denotes the particular switch back and Y denotes the individual switch in the pack. The switch pack is labeled on the P. C. board with an SX (to S2) and the individual switches are labeled on the switch pack as are the on-off positions.

A. Register Address Assignments:

The DL11-W can respond to addresses with the following format:

17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0

Selects 1 of 4 Registers

Byte Control

The DL11-W can be operated in one of three different address selection modes. Normally, a DL11-W used as console terminal control would operate in the first mode, whereas additional DL11-W's would be operated in the second mode. The third mode is not normally used, but is included here for completeness.

DEC FORM NO DEC 14-1041-1027-0318 SHEET 2 OF 8

ENGINEERING SPECIFICATION

TITLE DL11-W Installation Procedure CONTINUATION SHEET

Mode 1: Both the serial line unit and the real-time clock sections can be addressed. Due to common address selection logic, operation in this mode requires that the serial line unit addresses be restricted to 77556X. The line clock address is 77556.

Mode 2: Only the serial line unit section can be addressed. Address selection ranges from 74000 to 77777. Line clock is disabled and does not respond to address 77556.

Mode 3: Only the line clock section can be addressed at 77556. The serial line unit section does not respond to any address.

ADDRESS AND MODE SELECTION

Address Bit	A10	A09	A08	A07	A06	A05	A04	A03	N/A	N/A
Switch	S5-3	S5-2	S5-1	S5-4	S5-5	S5-6	S5-8	S5-7	S5-9	S5-10
Mode 1	Off	Off	Off	On	Off	Off	Off	Off	On	Off
Mode 2*	Off	Off	Off	On	Off	Off	Off	Off	On	Off
Mode 3	Off	Off	Off	On	Off	Off	Off	Off	On	On

*Address 77556X selected for serial line interface. Other addresses may be selected using SWITCH-OFF = 1 and SWITCH-ON = 0.

Note: Remove R61 from DL11-W's operated in Mode 2 to allow proper operation of a line frequency clock or DL11-W operated in Mode 1 or Mode 3.

Address assignments for serial lines are normally made in the ranges from 77650X to 77667X and from 77561X to 77617X.

B. Vector Address Assignments:

The line clock, if enabled, has a fixed vector address of 100 and cannot be changed. The serial line assignments are to floating vectors produced in the form XX0 (Receiver) and XX4 (Transmitter) where XX ranges from 00 to 77.

For a DL11-W used as the console device, the vector is 060/064. Additional DL11-W's vector addresses are floating.

DEC FORM NO DEC 14-1041-1027-0318 SHEET 3 OF 8

ENGINEERING SPECIFICATION

TITLE DL11-W Installation Procedure CONTINUATION SHEET

Vector Bit V8 V7 V6 V5 V4 V3 V2 V1 V0

	0/1	0	0
--	-----	---	---

Switch Selectable for Serial Line

Switch S2-8 S2-7 S2-5 S2-3 S2-6 S2-4

060/064	Off	Off	Off	On	Off
---------	-----	-----	-----	----	-----

On = 1, Off = 0

C. Selection of Data Format:

1. Data Bits

Switches S4-3 and S4-4 control the number of data bits in the serial character as follows:

S4-4	S4-3	1 of Data Bits
On	On	5
On	Off	6
Off	On	7
Off	Off	8
2. Parity

Parity is controlled by switches S4-2 and S4-6 as follows:

S4-2	S4-6	Parity
Off	Off	Off
On	Off	Off
Off	On	Even
On	On	Odd
3. Stop Bits

Switch S4-5 controls the number of stop bits selected in the serial character as follows:

DEC FORM NO DEC 14-1041-1027-0318 SHEET 4 OF 8

ENGINEERING SPECIFICATION CONTINUATION SHEET

TITLE DL11-W Installation Procedure

S4-5 # of Stop Bits
 On 1
 Off 2 (or 1.5 if 5 data bits are selected)

D. Baud Rate Selection:
 Receiver and transmitter baud rates are independent, so any combination may be selected.

Baud Rate	Receiver			Transmitter		
	S3-2	S3-3	S3-5	S4-10	S3-1	S3-4
110	Off	Off	Off	On	On	On
130	On	Off	Off	On	On	On
300	Off	On	Off	On	Off	Off
600	Off	On	Off	On	Off	On
1200	Off	On	Off	On	Off	Off
2400	On	On	Off	Off	Off	On
4800	On	On	Off	Off	Off	On
9600	On	Off	On	Off	On	Off

E. Current Loop Operation Mode:
 Normally, current loops should be in active mode, unless interfaced to another active loop, such as to another DL11.

Active - Passive Mode Selection						
Transmitter	S1-1	S1-2	S1-3	S1-6	S1-7	
Active	On	On	Off	Off	On	On
Passive	Off	Off	On	On	Off	Off
Receiver	S3-6	S3-7	S3-8	S3-9	S3-10	
Active	On	Off	On	Off	On	On
Passive	Off	On	Off	On	Off	Off
Reader Enable	S1-4	S1-5	S1-8	S1-9	S1-10	
Active	On	Off	On	Off	On	On
Passive	Off	On	Off	On	Off	Off

DEC FORM NO. DEC 16 (8-1981) 1022-1030
 DRA 108 SHEET 5 OF 8

ENGINEERING SPECIFICATION CONTINUATION SHEET

TITLE DL11-W Installation Procedure

F. Compatibility Selection:
 Switches S4-1 and S4-7 allow the DL11-W to be configured to replace DL11-A, B, C, and D options in most applications.

Selectable	Switch	Description
Break Bit	S4-1	Enabled in the ON position. Should be disabled (switch OFF) if replacing a DL11-A, or DL11-R. Should be enabled (switch ON) if replacing a DL11-C or DL11-D.
Error Bits	S4-7	Error bit reporting is enabled in the ON position. Should be disabled if replacing DL11-A or DL11-B, and should be enabled if replacing DL11-C or DL11-D.

Note: Both EIA level and current loop signals are available at the berg connector on the module. No selection is necessary. The proper cable will pick up the correct signals.

G. G8000 Installation:
 For DL11-W EIA operation, a positive voltage is required between 9 and 15 volts to operate the EIA drivers. For PDP-11/20 and PDP-11/15 systems with the H720 power supply, a G8000 module must be installed to provide this voltage. Using a filter network, this module converts the full-wave rectified "+8V" signal to a positive DC voltage.

1. Install G8000 into slot A02 or DD11-A.
2. Wire A03V2 to A02V2.
3. Wire A02N2 to CXXU1 where XX is the slot location of the H7856.

DEC FORM NO. DEC 16 (8-1981) 1022-1030
 DRA 108 SHEET 6 OF 8

ENGINEERING SPECIFICATION CONTINUATION SHEET

TITLE DL11-W Installation Procedure

H. DL11-W Systems with +15V Available Using DL11-A
 There is a special situation of using a DL11-A to mount a DL11-W in systems with +15V available. These systems have +15V available, and it appears at pin A03V2 of the DL11-A when using power harness such as 7009177, 7008855, or 7009509. In this situation, no G8000 is necessary, and +15V can be wired directly from A03V2 to CXXU1, where XX is the slot number of the DL11.

I. When using the DL11-W in an 11/05 processor pin CXXU1 when +15V available on it so no G8000 or no jumpers are required.

J. INSULATION
 The DL11-W module plugs into an SPC slot. A wire must be installed to pick up the ITC L signal from the power supply and apply it to the line frequency input of the DL11-W.
 When installed, the ITC L input to the DL11-W is located on the pin CD1. Connect a length of 30 AWG wire from pin CD1 on the backplane to the pin on the application.
 Table 1-1, for each application.

Table 1-1 ITC L Connection		Pin Number
PDP Computer	Processor	
11/04	KB11-D (4 slot)	C02D1, C03D1, C04D1
11/04	KB11-D (9 slot)	C02D1, C03D1, C04D1, C05D1, C06D1, C07D1, C08D1, or C09D1
11/05	K411-A w/8K memory	C01D1, C02D1, C03D1, C04D1, or K08V2
11/05	KB11-A w/8K memory	C01D1 or F08V2
11/20	K411	A13P2 or B12R1
11/34	KB11-E	C03D1, C04D1, C05D1, C06D1, C07D1, C08D1, or C09D1
11/35	KB11-A	F03A1 or C09D1
11/40	KB11-A	F03R1 or C09D1
11/45	KB11-A	C26D1, C27D1, or C28D1
11/55	KB11-D	C26D1, C27D1, or C28D1
11/70	KB11-B	C49D1, C41D1, C42D1, C43D1, or C44D1
11/70	KB11-C	C49D1
DL11-B Peripheral Mounting Panel		C01D1, C02D1, C03D1, or C04D1
DL11-D Peripheral Mounting Panel		C01D1, C02D1, C03D1, C04D1, C05D1, C06D1, C07D1, C08D1, C09D1
DL11-A Peripheral Mounting Panel		A03P2

Note: A wire connection is not necessary for backplane pin numbers ending in D1. ITC L is already connected to the line frequency input of the DL11-W.

DEC FORM NO. DEC 16 (8-1981) 1022-1030
 DRA 108 SHEET 7 OF 8

ENGINEERING SPECIFICATION CONTINUATION SHEET

TITLE DL11-W Installation Procedure

K. Installation
 The DL11-W module plugs into an SPC slot. A wire must be installed to pick up the DC10L signal from the power supply and apply it to the DC10L input of the DL11-W.
 When installed, the DC10L input to the DL11-W is located on pin CN1. Connect a length of 30 AWG wire from pin CN1 on the backplane to the pin on the backplane, as designated in Table 1-2 for each application.

PDP Computer	Processor	Pin Number
11/04*	KB11-D (4 slot)	C03N1, C04N1
11/04*	KB11-D (9 slot)	C03N1 thru C09N1
11/05*	K411-A w/8K Memory	C03N1, C02N1, C03N1, C04N1
11/05*	KB11-A w/16K Memory	C03N1, C02N1, C03N1, C04N1, C05N1, C06N1, C07N1, C08N1, C09N1, C41N1, C42N1, C43N1, C44N1
11/20	K411	B04D2, F06B2
11/34*	KB11-E	C03N1 thru C09N1
11/35	KB11-A	F03P2
11/40	KB11-A	F03R2
11/45*	KB11-A	C26N1, C26N1, C28N1
11/55*	KB11-D	C26N1, C28N1, C28N1
11/70*	KB11-B	C40N1, C41N1, C42N1, C43N1, C44N1
11/70*	KB11-C	C40N1, C41N1, C42N1, C43N1, C44N1
DL11-B Peripheral Mounting Panel		C03N1 thru C09N1
DL11-D Peripheral Mounting Panel		C03N1 thru C09N1
DL11-A Peripheral Mounting Panel		B01P2, B04P2, A03P2

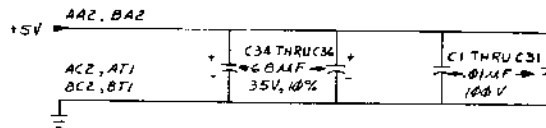
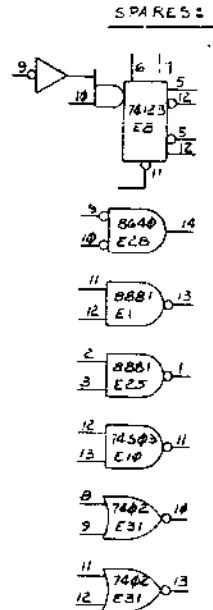
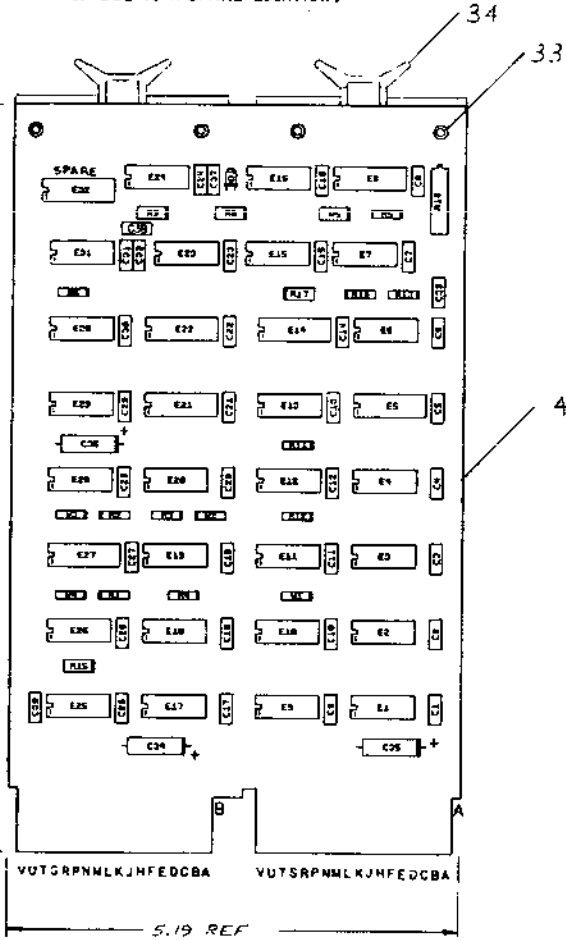
*NOTE: A wire connection is not necessary for backplane pin numbers ending in N1 DC10L. Is already connected to the input of the DL11-W.

DEC FORM NO. DEC 16 (8-1981) 1022-1030
 DRA 108 SHEET 8 OF 8

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NOTES:

1. ALL RESISTORS 1/4 W, 5% UNLESS OTHERWISE NOTED. ALL CAPACITORS ARE 100V, 20% UNLESS OTHERWISE NOTED.
2. JUMPER CONTROL OPERATIONS IS FOLLOWS: W1 THRU W4 SELECT CSR ADDRESS, W5 CAPACITOR FOR S SYN DLY, NOT USED.
3. E32 IS A SPARE LOCATION.

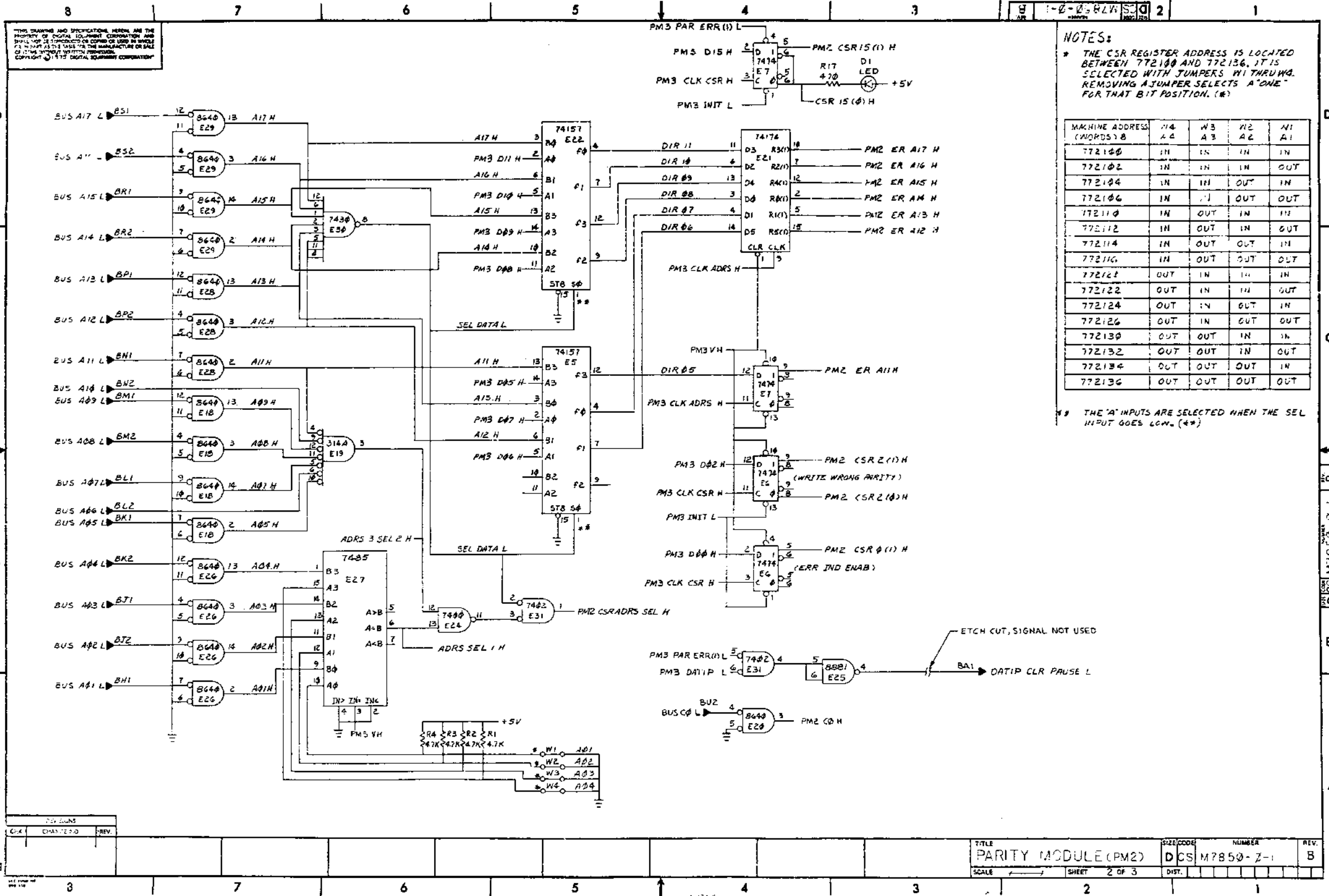


REF	CIRCUIT SCHEMATIC	D.C.S. M7850-04	REF
REF	X-Y COORDINATE HOLE LOCATION	D-CO-M7850-0-4	1
REF	ASSY/DILLING HOLE LAYOUT	D-AH-M7850-0-5	2
REF	MODULE ECO HISTORY	5-MH-M7850-0-6	3
1	ETCHED CIRCUIT BOARD	5010651-00	4
1	C39	CAP 470 PF, 100V, 5% (DM)	1000024-00
2	C33, C37	CAP 330 PF, 100V, 5% (DM)	1000023-00
38	C1 THRU C32	CAP .01 MF, 100V, 20% DISC	1001610-01
3	C34, C35, C36	CAP 6.8 MF, 35V, 10% STANT	1005306-00
1	D1	DIODE, LED.	1110324-00
5	R1 THRU R5	RES 4.7K 1/4W 5%	1300447-00
3	R8, R9, R15	RES 100 1/4W 5%	1300229-00
5	R6, R10, R11, R12, R17	RES 470 1/4W 5%	1300316-00
1	R13	RES 1K 1/4W 5%	1300365-00
1	R16	RES 10K 3/4W 20% (1% PERM)	1300143-10
1	E24	I.C. 7400	1905575-00
1	E30	I.C. 7430	1905578-00
1	E31	I.C. 7402	1909004-00
1	E19	I.C. 314A	1909704-00
1	E23	I.C. 7408	1910155-00
4	E1, E9, E17, E25	I.C. 8881	1909705-00
1	E16	I.C. 74104	1909931-00
1	E27	I.C. 7485	1910224-00
1	E8	I.C. 74123	1910436-00
1	E10	I.C. 74503	1910533-00
1	E15	I.C. 74574	1910544-00
1	E21	I.C. 74174	1910656-00
2	E5, E22	I.C. 74157	1910655-00
9	E2, E3, E11, E12, E18, E20, E26, E28, E29	I.C. 8640	1911469-00
2	E4, E13	I.C. 745280	1911573-00
1	E14	I.C. 8266	1909934-00
2	E6, E7	I.C. 7474	1905547-00
4	W1 THRU W4	INSULATED JUMPER	9009185-00
4		EYELET	9006732-00
2		HANDLE, FLIP-CHIP (MAGENTA)	9008337-6

8670	1	8
8266	8	16
74157	8	16
74174	8	16
74123	8	16
7485	8	16
314A	1	8
KC TYPE	GND	+5V

QTY	REF. DESIGNATION	DESCRIPTION	PART NO	ITEM NO																								
PARTS LIST																												
ETCH BOARD REV. B																												
<table border="1"> <tr> <td>DRN</td> <td>M. LUFKIN</td> <td>DATE</td> <td>2-5-75</td> </tr> <tr> <td>CHKD</td> <td></td> <td>DATE</td> <td>2-17-75</td> </tr> <tr> <td>ENG</td> <td></td> <td>DATE</td> <td>2-11-75</td> </tr> <tr> <td>PROJ. ENG.</td> <td></td> <td>DATE</td> <td>2-11-75</td> </tr> <tr> <td>PROD.</td> <td></td> <td>DATE</td> <td>2-11-75</td> </tr> <tr> <td>TEST</td> <td></td> <td>DATE</td> <td>2-11-75</td> </tr> </table>					DRN	M. LUFKIN	DATE	2-5-75	CHKD		DATE	2-17-75	ENG		DATE	2-11-75	PROJ. ENG.		DATE	2-11-75	PROD.		DATE	2-11-75	TEST		DATE	2-11-75
DRN	M. LUFKIN	DATE	2-5-75																									
CHKD		DATE	2-17-75																									
ENG		DATE	2-11-75																									
PROJ. ENG.		DATE	2-11-75																									
PROD.		DATE	2-11-75																									
TEST		DATE	2-11-75																									
TITLE: PARITY MODULE																												
<table border="1"> <tr> <td>DEC NO.</td> <td>EIA NO.</td> <td>DEC NO.</td> <td>EIA NO.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>					DEC NO.	EIA NO.	DEC NO.	EIA NO.																				
DEC NO.	EIA NO.	DEC NO.	EIA NO.																									
SEMICONDUCTOR CONVERSION CHART																												
<table border="1"> <tr> <td>SHEET</td> <td>1 OF 3</td> <td>DIST.</td> <td></td> </tr> </table>					SHEET	1 OF 3	DIST.																					
SHEET	1 OF 3	DIST.																										

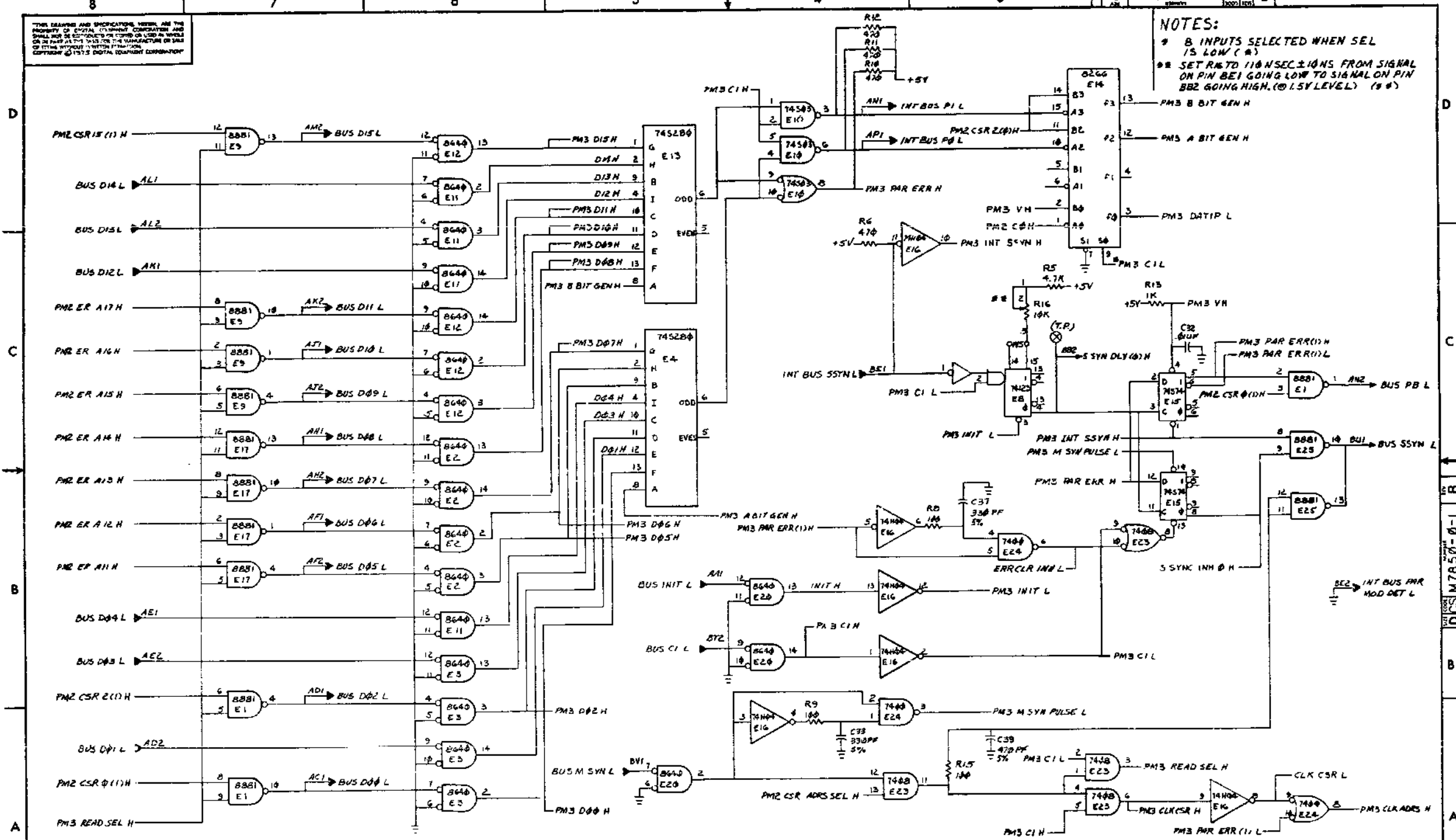
415



416

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NOTES:
* 8 INPUTS SELECTED WHEN SEL IS LOW (**)
** SET R6 TO 110 NSEC. DELAYS FROM SIGNAL ON PIN BE1 GOING LOW TO SIGNAL ON PIN BE2 GOING HIGH. (@ 1.5V LEVEL) (***)



DESIGN CHG		
CL	CH	REV

TITLE	PARITY MODULE (PM3)	SIZE/COO	NUMBER	REV.
SCALE		SHEET	3 OF 3	D-ST

417

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY	BRUCE CRAMM	CHECKED	BRUCE CRAMM	SECTION
DATE	17 NOV 77	DATE	17 NOV 77	ISSUED SECT.
ENG	BILL BERNSTEIN	PROD	FROD	
DATE	11 NOV 77	DATE		

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	AA, AB, BA, BB, DA	DB, AC, AD, BC, BD	DC, DD, LC, LD	FC, FD	HC, HD, MC, MD	HA, HB	HC, HB
EK-11004-OP		11/04 SYSTEM USERS GUIDE	1	1	1	1	1	1	1
ZJ009-RB		SOFTWARE LIB KIT (PAPER TAPE)	1	1	1	1	1	1	1
B-TC-11/04-0-1		11/04 PRINT SER (ORDER #MP0019)	1	1	1	1	1	1	1
EK-1011-D-TM		KD11-D MANUAL	1	1	1	1	1	1	1
EK-MS11E-MM		MS11-E-J MANUAL	1	1	0	0	0	0	0
EK-MM11B-TM		MM11-B, BP, C, CP MANUAL	0	0	0	1	0	0	0
EK-MM11D-TM		MM11-D, DP MANUAL	0	0	0	0	1	1	0
EK-BALL-MM		BALL-L MANUAL	1	1	1	1	1	1	1
EK-BALLK-MM		BALL-K MANUAL	0	0	0	0	0	0	0
EK-M7850-MM		M7850 MANUAL	0	0	0	0	0	0	0
		DL11-W PRINT SET	0	0	0	0	0	0	0
EK-DL11W-MM		DL11-W MANUAL	0	0	0	0	0	0	0
		DL11-W SOFTWARE LIB KIT	0	0	0	0	0	0	0
		DL11-W CABLES							
70-08360-1		DL11-WA (20MP)	0	0	0	0	0	0	0
BC05C-25		DL11-WB (EIA)	0	0	0	0	0	0	0
EK-M9301-MM		M9301 MANUAL NOTE 1	1	1	1	1	1	1	1
EK-MM11-YP-TM		MM11-YP MANUAL	0	0	0	0	0	0	1
EK-M9312-TM		M9312 MANUAL NOTE 1	1	1	1	1	1	1	1
23248F1		ROM CONSOLE EMULATOR NOTE 2	1	1	1	1	1	1	1
9906228		BOX ROM NOTE 2	1	1	1	1	1	1	1

TITLE SHIPPING LIST
11/04 (5 1/4" BALL-L)

SIZE CODE
A PL

NUMBER
11/04-0-2

REV.
B

ECCO NO.
11/04-00011

DEC FORM DRC 16 (325) 1031 N870
ORA 110

ASSY NO. SHEET 1 OF 2 DIST.

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY	B. CRAMM	CHECKED	B. CRAMM	SECTION
DATE	17 NOV 77	DATE	17 NOV 77	ISSUED SECT.
ENG	B. BERNSTEIN	PROD	FROD	
DATE	11 NOV 77	DATE		

ITEM NO.	DWG NO./PART NO.	DESCRIPTION	AA, AB, BA, BB, DA	DB, AC, AD, BC, BD	DC, DD, LC, LD	FC, FD	HC, HD, MC, MD	HA, HB	HC, HB
		NOTE 1: Manual shipped to be consistent with module shipped in machine.							
		NOTE 2: To be shipped only if M9312 is shipped.							

TITLE SHIPPING LIST
11/04 (5 1/4" BALL-L)

SIZE CODE
A PL

NUMBER
11/04-0-2

REV.
B

ECCO NO.

DEC FORM DRC 16 (325) 1031 N870
ORA 110

ASSY NO. SHEET 2 OF 2 DIST.

QUANTITY VARIATION

REV. B

718

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FIELD MAINTENANCE PRINT SET

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TABLE OF CONTENTS

B-TC-7013323-0-1	POWER SUPPLY ASSY (TC)
E-UA-7013323-0-0	POWER SUPPLY ASSY
A-PL-7013323-0-0	POWER SUPPLY ASSY (PL)
B-DD-H765-Ø	H765 DRAWING DIRECTORY (COMPLETE SET)
D-CS-5410864-0-1	POWER DISTRIBUTION BOARD
D-CS-5411086-0-1	POWER LINE MONITOR +15V REGULATOR
MPØØ271	H7441 PRINT SET (COMPLETE SET)
B-DD-H745-Ø	H745 DRAWING DIRECTORY (COMPLETE SET)
B-DD-H754-Ø	H754 DRAWING DIRECTORY (COMPLETE SET)
MPØØ272	H785 PRINT SET (COMPLETE SET)

UNIT VARIATIONS COVERED BY THIS PRINT SET
7013323-0
7013323-1
7013323-2
7013323-3
7013323-4
7013323-5

7013323
Field Maintenance
Print Set

Digital Equipment
Corporation

PRINT SET ORDER NO.
MPØØ27Ø

REVISIONS		USED ON OPTION/MODEL	DRN.	DATE	TITLE:																							
REV.	CHG. NO.	1134A	D. HEALY	DEC 76	<table border="1"> <tr> <td colspan="4">digital</td> </tr> <tr> <td>POWER SUPPLY ASSY</td> <td>SIZE</td> <td>CODE</td> <td>NUMBER</td> </tr> <tr> <td>B</td> <td>TC</td> <td></td> <td>7013323-0-1</td> </tr> <tr> <td>DIST.</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>				digital				POWER SUPPLY ASSY	SIZE	CODE	NUMBER	B	TC		7013323-0-1	DIST.							
digital																												
POWER SUPPLY ASSY	SIZE	CODE	NUMBER																									
B	TC		7013323-0-1																									
DIST.																												
			D. HEALY	DEC 76																								
			PROJ. ENG.	DATE																								
			<i>[Signature]</i>	13 JAN 77																								
			FIELD SERV.	DATE																								
				13 JAN 77																								

SHEET I OF 1

EN-01724-16-NB75 (327)

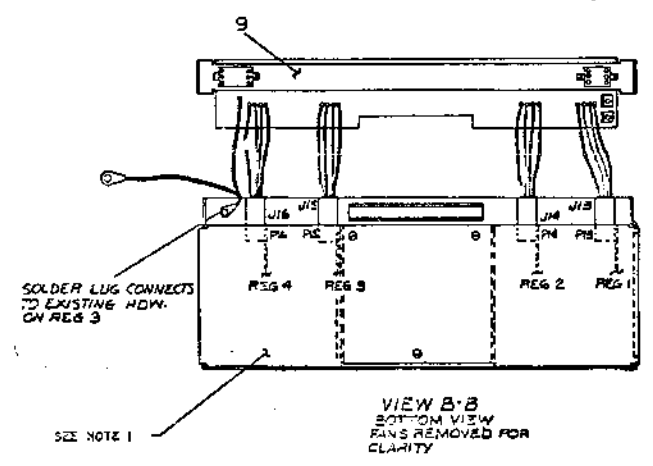
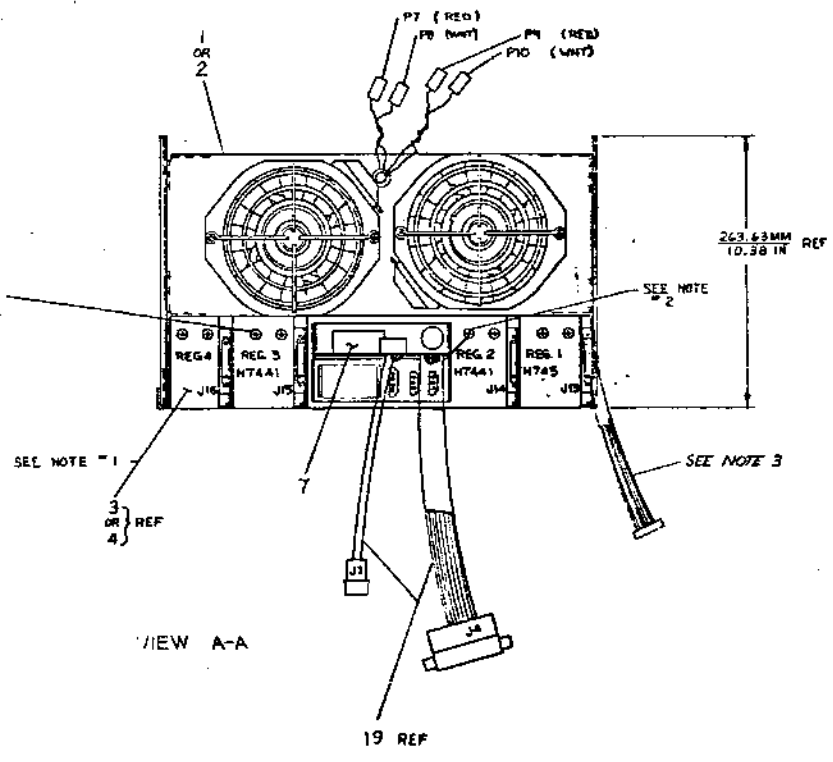
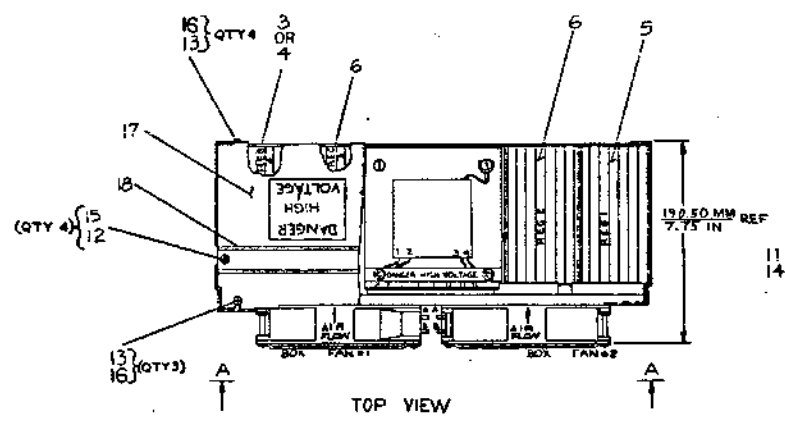
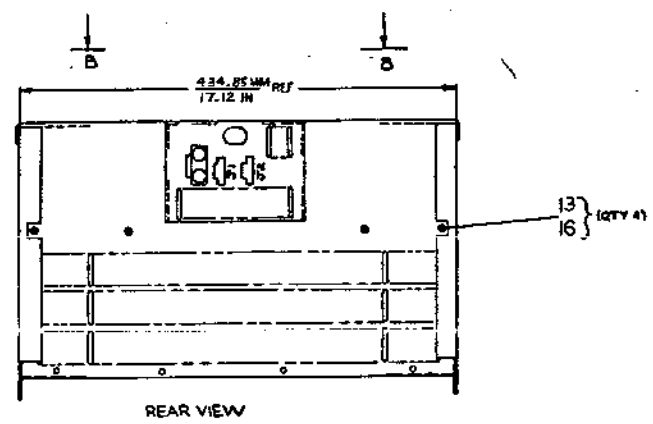
DRB 124

A20

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LEGEND	
NUMBER	VARIATION
7013323-0	120V H725-P, 541086, 5410864-YA, TWO H7441, H745
7013323-1	120V H725-P, 541086, 5410864-YA, TWO H7441, H745, H785
7013323-2	120V H725-P, 541086, 5410864-YA, TWO H7441, H745, H754
7013323-3	240V H725-R, 541086, 5410864-YA, TWO H7441, H745
7013323-4	240V H725-R, 541086, 5410864-YA, TWO H7441, H745, H785
7013323-5	240V H725-R, 541086, 5410864-YA, TWO H7441, H745, H754

- NOTES**
- REGULATOR #4 IS DETERMINED BY THE VARIATION REQUIRED - SEE LEGEND AND PARTS LIST.
 - GREEN/YELLOW GROUND WIRE FROM TRANSFORMERS TO BE FASTENED UNDER REGULATOR #2 MOUNTING SCREW.
 - CONSOLE CABLE 701411-2J FROM K711A. THIS CABLE IS USED ONLY TO CONNECT THE H785/H785B BATTERY BACK-UP REGULATOR IN REGULATOR SLOT #4.



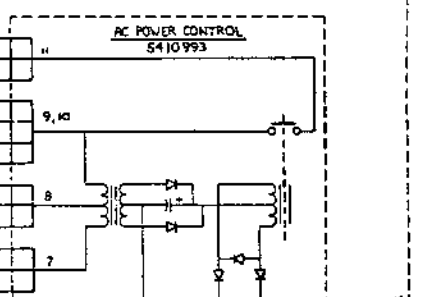
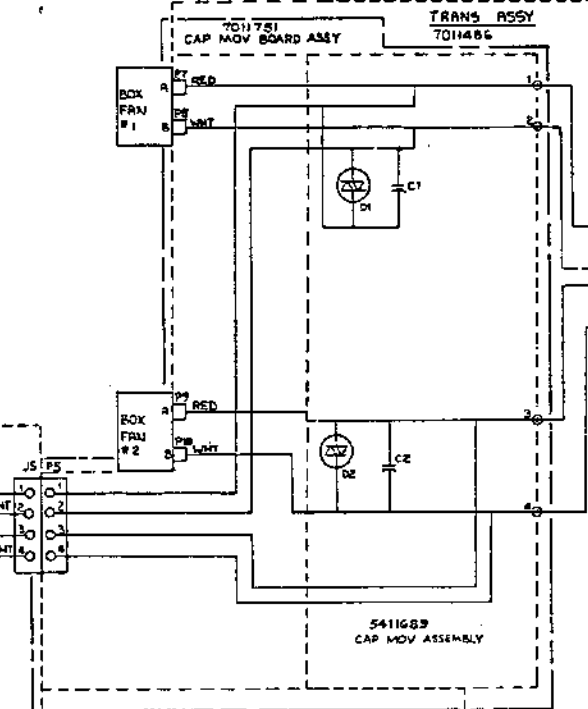
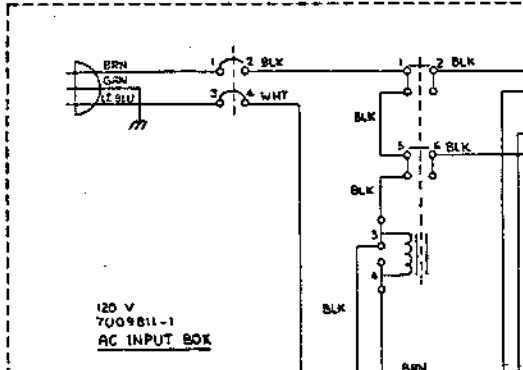
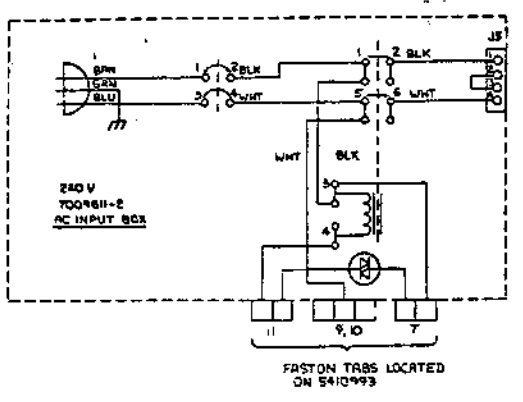
CAUTION: OFF SHEET PARTS LIST EXISTS
SEE A-PL-7013323-0-0

PARTS LIST		QTY	DESCRIPTION	PART NO.
1134A				
DIGITAL				
TITLE 1134A POWER SUPPLY ASSY				
PARTS LIST				
SEE PARTS LIST				
B-DD-7013323-0				
E UA 7013323-0-0				
A				

421

ALL DIMENSIONS AND TOLERANCES UNLESS OTHERWISE SPECIFIED ARE IN INCHES.
 DIMENSIONS IN PARENTHESES ARE FOR INFORMATION ONLY.
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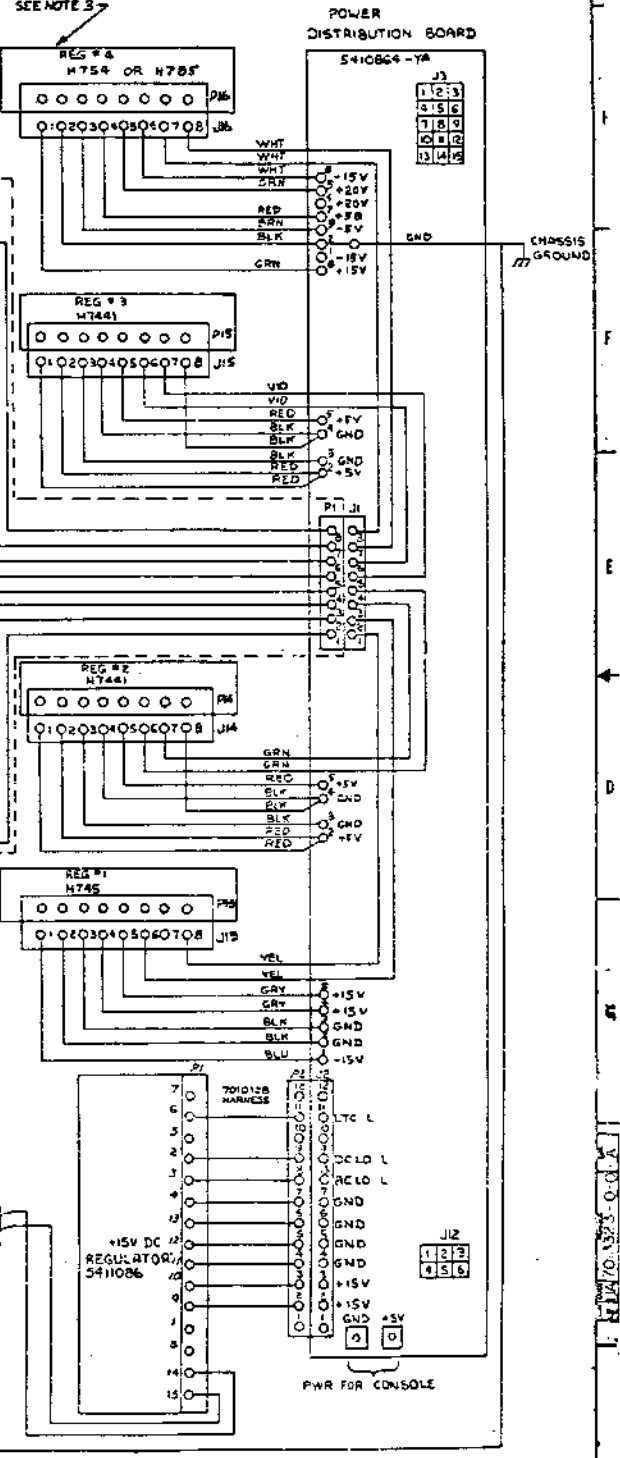
CONNECTION TABLE			CONNECTION TABLE		
FROM CONNECTION	TO CONNECTION	SIGNALS	FROM CONNECTION	TO CONNECTION	SIGNALS
P2 FROM TRANS. ASSY	J2 FROM +15V REG.	28 VAC	P4 FROM +15V REG.	J2 LOCATED ON PWR. DIST. BD	-15V, LTC L, AC LD L, DC LD L, GND
J1C FROM PWR. DIST. BD	P16 LOCATED ON REG. #4 (H745)	GND, -5V, +20V, 28 VAC, +5V, -15V			
J15 FROM PWR. DIST. BD	P15 LOCATED ON REG. #3 (H744)	GND, +5V, 28VAC	P5 FROM TRANS. ASSY	J5 LOCATED ON AC INPUT BOX	120 (240 VAC)
J14 FROM PWR. DIST. BD	P14 LOCATED ON REG. #2 (H744)	GND, +5V, 28VAC	P7 (RED)	FAN #1 - R	120 VAC - MOT
J13 FROM PWR. DIST. BD	P13 LOCATED ON REG. #1 (H745)	GND, +15V, -15V, 28 VAC	P8 (WHT)	FAN #1 - B	120 VAC - NEUTRAL
GND LUG LOCATED ON PWR. DIST. BD	REG. #4 MOUNTING SCREW	GROUND CHASSIS	P9 (RED)	FAN #2 - R	120 VAC - MOT
P1 FROM TRANS. ASSY	J1 LOCATED ON PWR. DIST. BD	28 VAC	P10 (WHT)	FAN #2 - B	120 VAC - NEUTRAL
			+15V GRN/YEL WIRE	SEE NOTE 3	CHASSIS GROUND



- COMMON SIGNAL NAMES FOR GPM AND IS-PW MATE-N-LOCKS ON POWER DISTRIBUTION BOARD
- | | |
|-------------|--------------|
| 6-PW | 15-PW |
| 1 - GND | 1 - +5V |
| 2 - LTC L | 2 - +15V |
| 3 - DC LD L | 3 - +20V |
| 4 - AC LD L | 4 - +5V |
| 5 - SPARE 4 | 5 - GND |
| 6 - SPARE 5 | 6 - SPARE 1 |
| | 7 - GND |
| | 8 - GND |
| | 9 - GND |
| | 10 - SPARE 2 |
| | 11 - GND |
| | 12 - SPARE 3 |
| | 13 - +15V |
| | 14 - +5V |
| | 15 - SPARE 3 |

REMOTE POWER CONTROL
 1-3 : ON
 2-3 : OFF

CPU CONSOLE POWER SWITCH
 1-3 : ON



POWER SUPPLY ASSY JUN 7013325-0-0
 PART 2 OF 2

422

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS				QUANTITY / VARIATION													
PARTS LIST				7013323-00	7013323-01	7013323-02	7013323-03	7013323-04	7013323-05								
MADE BY	R. PELLERIN	CHECKED	D. HEALY	SECTION													
DATE	23 NOV 76	DATE	15 DEC 76	1													
ENG	<i>[Signature]</i>	PROD	<i>[Signature]</i>	ISSUED SECT.													
DATE	16-FEB-77	DATE	16-FEB-77	1													
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION		7013323-00	7013323-01	7013323-02	7013323-03	7013323-04	7013323-05								
1	E-UA-H765-P-Ø	H765-P POWER SUPPLY 115V		1	1	1	-	-	-								
2	E-UA-H765-R-Ø	H765-R POWER SUPPLY 230V		-	-	-	1	1	1								
3	D-UA-H785-Ø-Ø	REGULATOR, BATTERY BACK UP (H785)		-	1	-	-	1	-								
4	D-UA-H754-Ø-Ø	+20V REGULATOR (H754)		-	-	1	-	-	1								
5	D-UA-H745-Ø-Ø	-15V REGULATOR (H745)		1	1	1	1	1	1								
6	D-UA-H7441-Ø-Ø	+5V REGULATOR (H7441)		2	2	2	2	2	2								
7	E-IA-5411086-0-0	+15V REGULATOR (5411086)		1	1	1	1	1	1								
8																	
9	D-CS-5410864-YA-1	POWER DISTRIBUTION BOARD (5411864-YA)		1	1	1	1	1	1								
10																	
11	9008007-3	SCR, PH HD TRUSS #10 - 32 x .25		6	8	8	6	8	8								
12	9006040-3	SCR, PH HD TRUSS #8 - 32 x .62		4	4	4	4	4	4								
13	9006020-3	SCR, PH HD TRUSS #6 - 32 x .25		10	11	11	10	11	11								
14	9006635	WASHER INT. TOOTH #10		6	8	8	6	8	8								
15	9006634	WASHER INT. TOOTH #8		4	4	4	4	4	4								
16	9006633	WASHER INT. TOOTH #6		10	11	11	10	11	11								
17	D-IA-7009949-0-0	COVER, POWER SUPPLY		1	1	1	1	1	1								
18	D-IA-7009950-0-0	TROUGH, WIRE		1	1	1	1	1	1								
19	D-IA-7010138-0-0	HARNESS INTERCONNECT		1	1	1	1	1	1								
20	9007880	TIE WRAP 1/8 w		4	4	4	4	4	4								
21	A-CS-H765-TA-1	TESTER CIRCUIT SCHEMATIC		REF	REF	REF	REF	REF	REF								
22	A-SP-H765-Ø-1	TEST PROCEDURE		REF	REF	REF	REF	REF	REF								
TITLE		ASSY NO.		SIZE	CODE	NUMBER			REV.	ECO NO.							
POWER SUPPLY ASSY		E-UA-7013323-0-0		A	PL	7013323-0-0			A	1134A-00002							
		SHEET 1 OF 1		DIST.													

DEC FORM DEC 16-(325)-1031--N870
DRA 110

923



DRAWING DIRECTORY

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CUSTOMER PRINT SET INDEX

THIS IS PRINT SET

DRAWING DIRECTORY H765
UNIT ASSY H765
AC INPUT BOX ASSY
AC PWR CONTROL BOARD

B-DD-H765-Ø
E-UA-H765-Ø-Ø
D-AD-7014420-Ø-Ø
D-UA-5413089-Ø-1

MFG. PRINT SET
PACKAGING INSTRUCTIONS

A-SP-3700174-0-0

DRAWING DIRECTORY H744
DRAWING DIRECTORY H745
DRAWING DIRECTORY H754

B-DD-H744-Ø
B-DD-H745-Ø
B-DD-H754-Ø

PWR DISTRIBUTION BOARD
AC POWER CORD
PWR LINE MONITOR/15V REG
TRANSFORMER ASSEMBLY

D-CS-5410864-0-1
D-AD-7012500-0-0
D-CS-5411086-0-1
E-AD-7011486-0-0

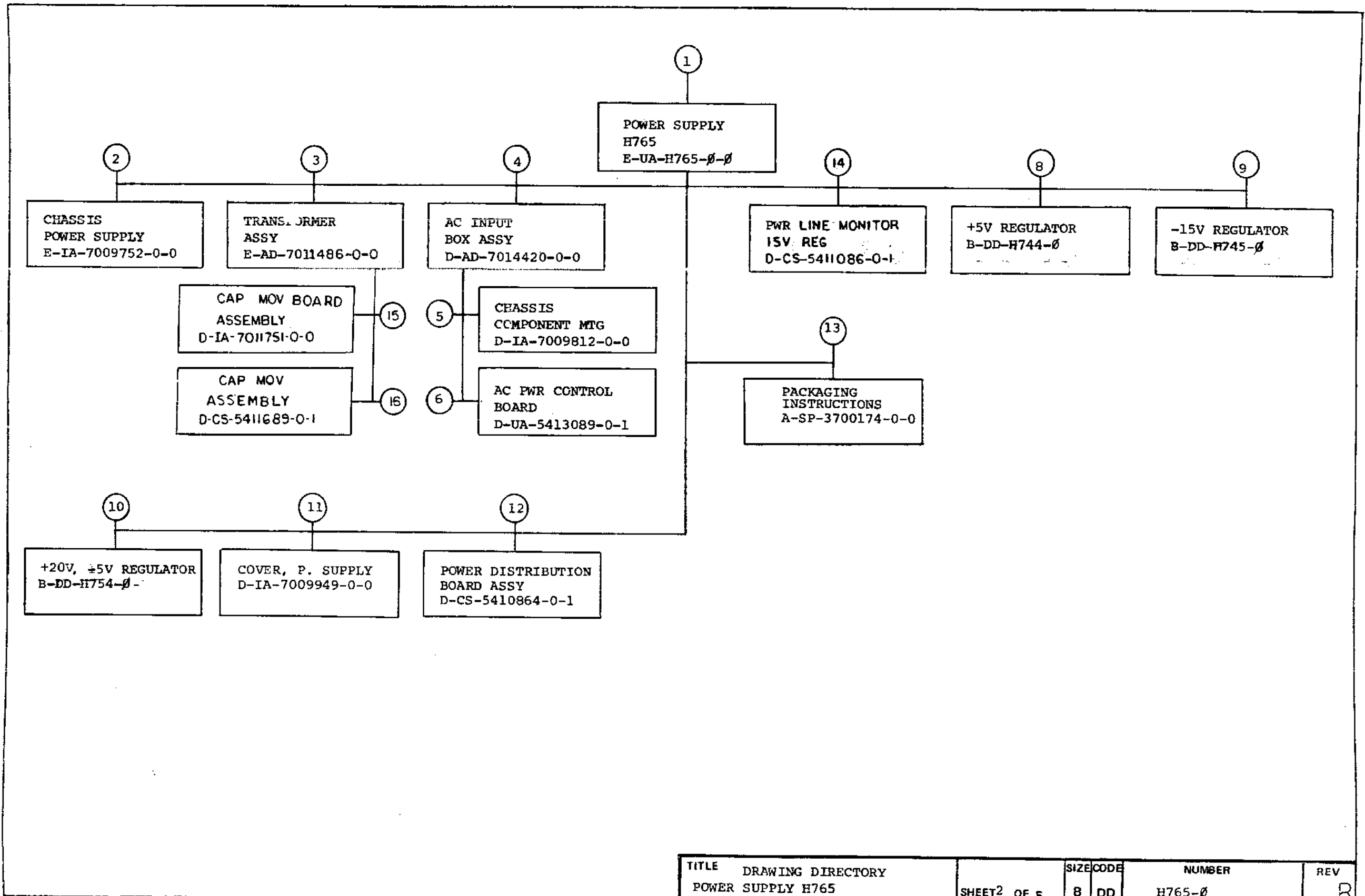
UNIT VARIATIONS

VAR	TITLE	PRINT SET			
		1	2	3	4
H765-A	120V 50/60 HZ	X			
H765-B	240V 50/60 HZ	X			
H765-C	120V 50/60 HZ NO H754 NO B.B.	X			
H765-D	240V 50/60 HZ NO H754 NO B.B.	X			
H765-P	120V 50/60 HZ NO REG	X			
H765-R	240V 50/60 HZ NO REG	X			

DEC 16 (1325) 1062-1A-R922

DATE	CHG. NO.	REV	USED ON OPTION/MODEL	DRN.	DATE	TITLE	SIZE	CODE	NUMBER	REV
	H765-3	A	Ball-K	J. FERGUSON	5/25/74	DRAWING DIRECTORY POWER SUPPLY H765	B	DD	H765-Ø	R
C-N	H765-4	B	11/35-S	D. HEALY	7/3/74					
S-L	H765-6	C		PROJ ENG.						
S-L	H765-7	D		E. Palma	8/4/74					
R-K	H765-8	E		PROD.	12/1/74					
R-T-B	H765-9	F		R.V. Petrus		FIELD SERV				
R-P	H765-10	H		R.L. G...s	9/13/74	DIST				
R-L-P	H765-11	J								
	H765-12	K								
	H765-13	L								
	H765-14	M								
	H765-15	N								
	H765-16	P								
	H765-17	R								

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TITLE	DRAWING DIRECTORY	SIZE CODE	NUMBER	REV
POWER SUPPLY H765	SHEET 2 OF 5	B DD	H765-Ø	R

425

CUSTOMER PRINT SET		ELECTRICAL					CUSTOMER PRINT SET		ELECTRICAL											
		MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE			MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE			
X			1	E-UA-H765- 0 A-SP-H765-0-9	T	2	POWER SUPPLY H765 H765 POWER SUPPLY ASSEMBLY PROCEDURE		X			12	D-CS-5410864-0-1 D-IA-5010863-0-0 A-SP-5410864-0-8 A-SP-5410864-0-9	#	3 1	POWER DIST. BD. ASSY ETCHED CIRCUIT BOARD TEST PROCEDURE ASSEMBLY PROCEDURE				
X			3	E-AD-7011486-0-0 A-SP-7010014-0-8 A-CS-7010014-TA-1 A-UA-7010014-TA-0 A-PL-7010014-TA-0 A-SP-7011486-0-9	# A A A A		TRANSFORMER ASSY TEST PROCEDURE TESTER C.S. TESTER U.A. TESTER P.L. TRANSFORMER ASSY PROCEDURE		X			14	D-CS-5411086-0-1 A-SP-11/45-TA-2 A-SP-5411086-0-3 D-IA-7010138-0-0	#	4	PWR LINE MONITOR/15V REG TEST PROCEDURE ENGINEERING SPECIFICATION HARNESS INTERCONNECTION				
X			4	D-AD-7014420-0-0 A-SP-7009811-0-8 A-CS-7009811-TA-1 A-UA-7009811-TA-0 A-PL-7009811-TA-0 A-SP-7009811-0-9	#	2	AC INPUT BOX ASSY TEST PROCEDURE TESTER C.S. TESTER U. A. TESTER P.L. AC INPUT BOX ASSY PROCEDURE					15	D-IA-7011751-0-0			CAP MOV BOARD ASSY				
X			6	D-UA-5413089-0-0			PILOT CONTROL BOARD					16	D-CS-5411689-0-1			CAP MOV ASSY				
C			8	B-DD-H744-0	#	2	DRAWING DIRECTORY H744													
C			9	B-DD-H745-0	#	2	DRAWING DIRECTORY H745													
C			10	B-DD-H754-0	#	3	DRAWING DIRECTORY H754													
CUSTOMER PRINT SET CODES		X = PRINT OF DOCUMENT INCLUDED IN PRINT SET C = INCLUDES ALL PRINTS INDICATED ON DOCUMENT S = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED							TITLE		DRAWING DIRECTORY POWER SUPPLY H765		SHEET 3 OF 5		SIZE CODE B DD		NUMBER H765- 0		REV R	

420

CUSTOMER PRINT SET		MECHANICAL					CUSTOMER PRINT SET		MECHANICAL									
1	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	OPTION NO./FILE DATE	1	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE				
		1	E-UA-H765-Ø-Ø	R	2	POWER SUPPLY H765			6	D-UA-5413089-0-0			PILOT CONTROL BOARD					
			D-IA-7009950-0-0		1	THROUGH WIRE												
		2	E-IA-7009752-0-0		1	CHASSIS, POWER SUPPLY												
			E-IA-7411682-0-0		1	CHASSIS, POWER SUPPLY												
			D-MD-7411685-0-0		1	SIDE, POWER SUPPLY												
			D-MD-7411684-0-0		1	HOUSING COMP. CHASSIS												
		3	E-AD-7011486-0-0		2	TRANSFORMER ASSY			8	B-DD-H744-Ø		2	DRAWING DIRECTORY H744					
			C-MD-7414301-0-0		1	COVER												
		4	D-AD-7014420-0-0		2	AC INPUT BOX ASSY			9	B-DD-H745-Ø		2	DRAWING DIRECTORY H745					
			A-DC-7412303-0-1		1	DECAL 115V												
X			D-AD-7012500-0-0		1	POWER CORD			10	B-DD-H754-Ø		3	DRAWING DIRECTORY H754					
			A-DC-7412380-0-1		1	DECAL 230V												
									11	D-IA-7009949-0-0		1	COVER, POWER SUPPLY					
										C-MD-7412473-0-0		1	STRIP, CLAMP					
		5	D-IA-7009812-0-0	A	1	CHASSIS COMPONENT MTG.												
			D-IA-7411765-0-0		1	PLATE SWITCH												
			D-IA-7411766-0-0	B	1	PLATE COMPONENT MTG.												
CUSTOMER PRINT SET CODES		X = PRINT OF DOCUMENT INCLUDED IN PRINT SET C = INCLUDES ALL PRINTS INDICATED ON DOCUMENT S = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED					TITLE		DRAWING DIRECTORY POWER SUPPLY H765		SHEET 4 OF 5		SIZE CODE B DD		NUMBER H765-Ø		P.V. R	

DPB 108

DEC 16-13251-1062-28-R972

427

CUSTOMER PRINT SET		MECHANICAL					CUSTOMER PRINT SET										
		MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE			MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
1			12	D-CS-5410864-0-1		3	POWER DIST. BD. ASSY										
				C-MD-7412192-0-0		1	SHIELD										
				D-MD-7411704-0-0		1	BRACKET, CONN. MTG.										
				C-IA-9305937-0-0			MATE-N-LOK FIXTURES										
				D-IA-5010863-0-0		1	ETCHED CIRCUIT BD.										
				K-CO-5410864-0-4			X-Y COORDINATE HOLE LOC.										
				D-AH-5410864-0-5		1	ASSY DRILLING HOLE LAYOUT										
				B-MH-5410864-0-6		1	MODULE ECC HISTORY										
				5010863		REV	ETCH CIRCUIT BOARD										
	X		13	A-SP-3700174-0-0	-	2	PACKAGING INSTRUCTIONS										
				A-PS-9905664-0-0	-	2	REGULAR SLOTTED CARTON										
				A-PS-9905665-0-0	-	2	LAMINATED BUILDUP										
			14	D-AH-5411086-0-5		1	ASSY DRILLING HOLE LAYOUT										
				B-MH-5411086-0-6		1	MODULE ECC HISTORY										
			15	D-AD-7011486-0-0		1	ASSEMBLY DRAWING										
			16	D-AH-5411689-0-5		1	ASSY DRILLING HOLE LAYOUT										
				D-MH-5411689-0-6		1	MODULE ECO HISTORY										
CUSTOMER PRINT SET CODES		X = PRINT OF DOCUMENT INCLUDED IN PRINT SET C = INCLUDES ALL PRINTS INDICATED ON DOCUMENT S = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED							TITLE		DRAWING DIRECTORY POWER SUPPLY H765		SIZE CODE		NUMBER		REV
									SHEET 5 OF 5		B DD		H765-Ø		R		

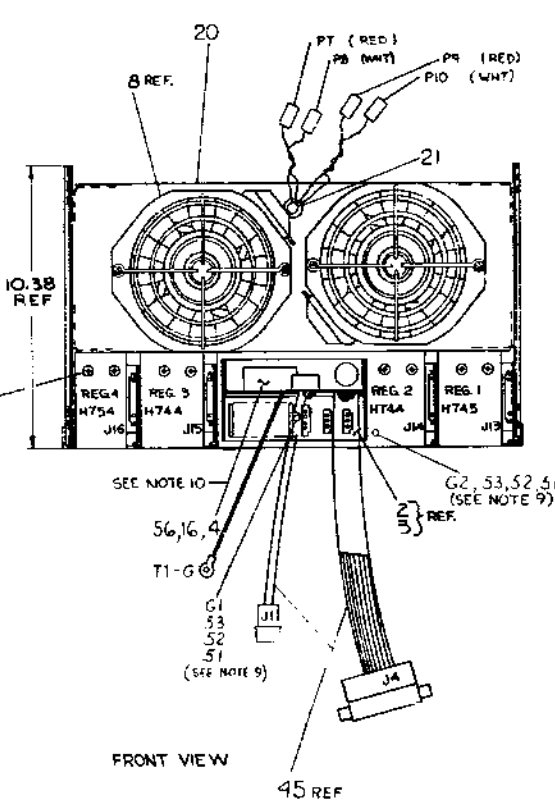
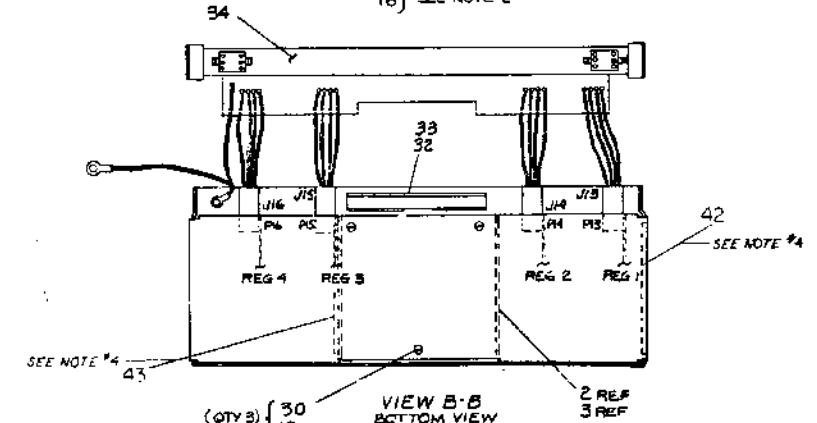
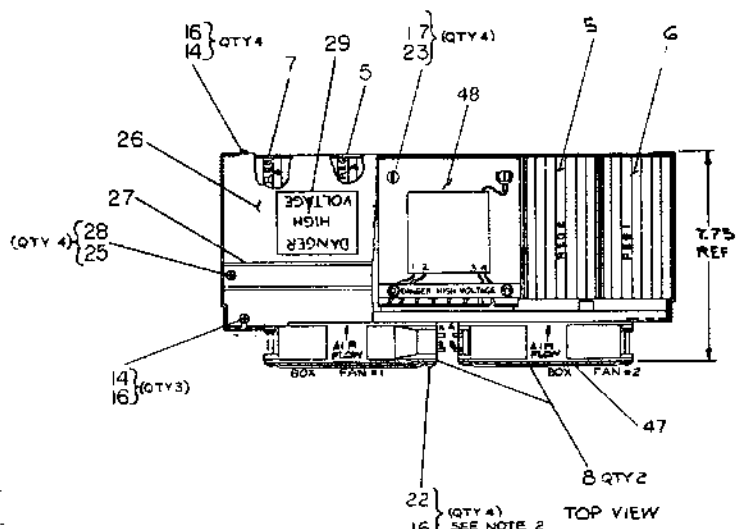
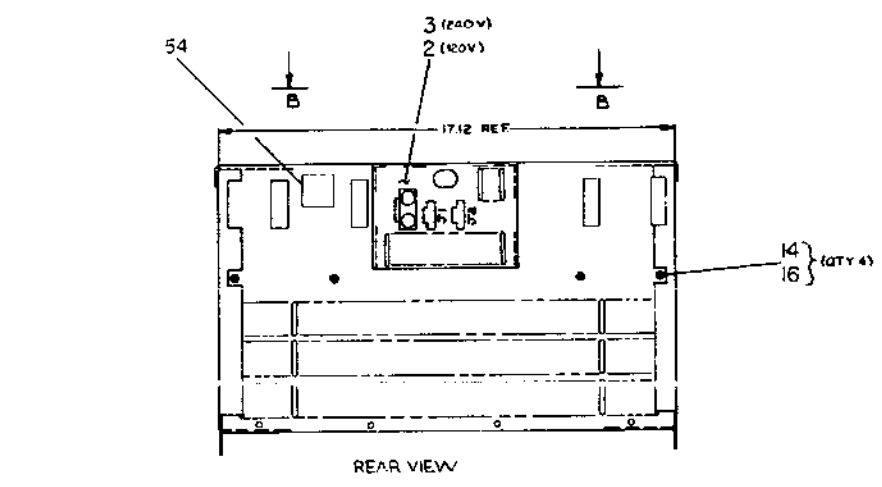
THIS DRAWING FOR INFORMATION ONLY. ALL THE PARTS OF THIS DRAWING ARE TO BE ORDERED FROM THE MANUFACTURER OF THE ORIGINAL EQUIPMENT. THE MANUFACTURER OF THE ORIGINAL EQUIPMENT IS RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE ORIGINAL EQUIPMENT.

NUMBER	VARIATION
H765-A	120V 50/60 HZ
H765-B	240V 50/60 HZ
H765-C	120V 50/60 HZ NO REG
H765-D	240V 50/60 HZ NO REG
H765-P	120V 50/60 HZ NO REG
H765-R	240V 50/60 HZ NO REG

- NOTES**
1. THE TRANSFORMER FOR E-AD-T00000
 2. TIGHTEN FAN SCREWS TO 10 IN. LBS. WITH A TORQUE SCREW DRIVER.
 3. INSTALL A.B.S. VINYL VIEW B-B ITEM #42 AND #43. CENTER 1/4 INCH FROM BOTTOM AND SIDES ON INSIDE WALL.
 4. INSTALL A.B.S. VINYL VIEW B-B ITEM #42 AND #43. CENTER 1/4 INCH FROM BOTTOM AND SIDES ON INSIDE WALL.
 5. ITEM 7 - H754 IS NOT USED IN VARIATIONS C & D.
 6. ITEM 53 IS TO BE USED TO PREVENT CORROSION OF CHASSIS AT GROUND STUD.

NOTES (CONT.)

10. ITEM 16 (SCREW) WASHER TO BE USED TO MOUNT 541086 (ITEM 4) IN AC INPUT BOX (ITEM 2 OR 3) IN A.B.C. VERSION. IN P.P. VERSION, INSTALL SCREW & RUSHER IN MOUNTING HOLES. THEY WILL BE USED ON A HIGHER ASSEMBLY.



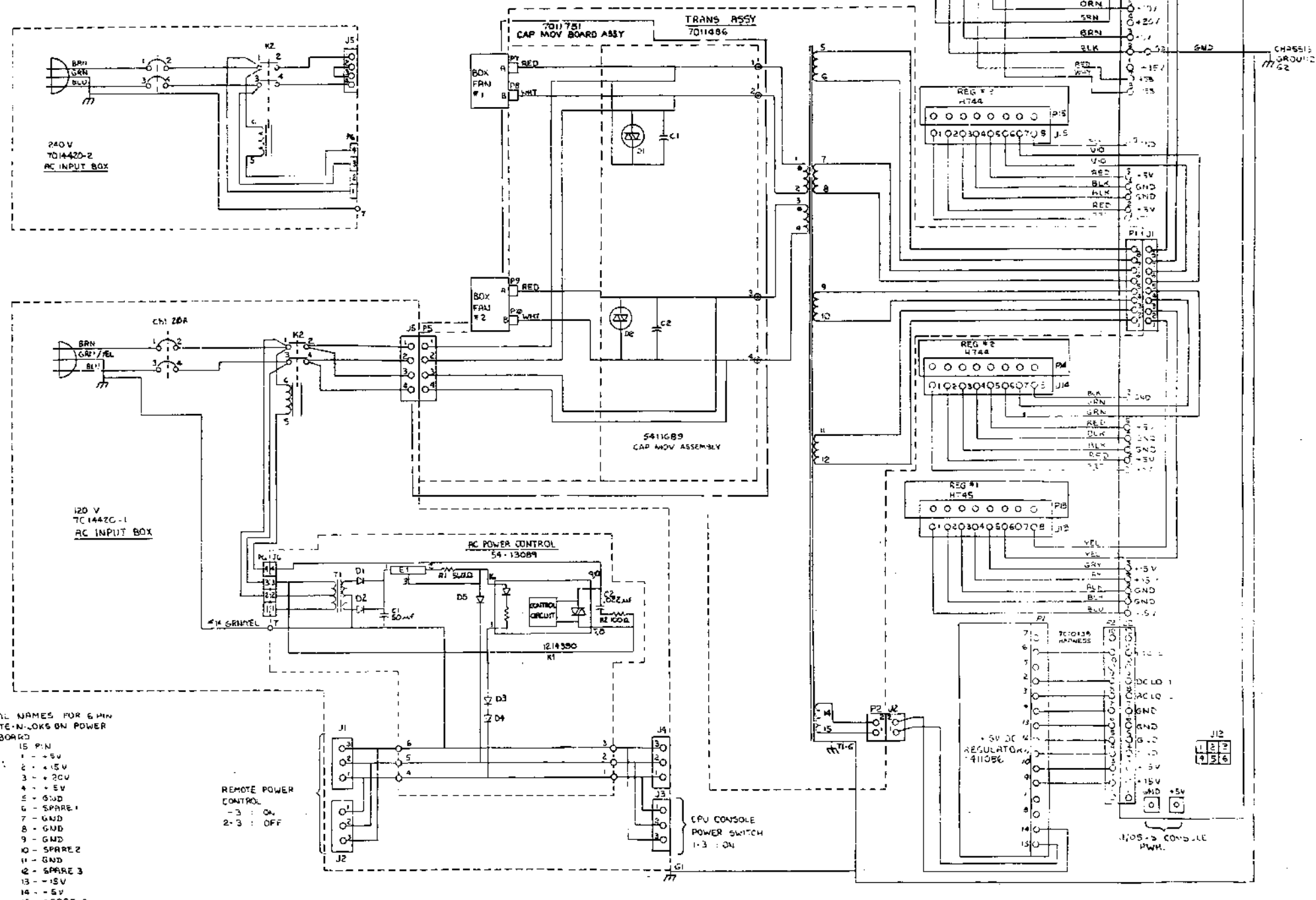
QTY	DESCRIPTION	PART NO.	REF
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QTY	DESCRIPTION	PART NO.	REF
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REV	DESCRIPTION	DATE	BY
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THIS DRAWING IS UNCLASSIFIED SINCE IT IS
 A TECHNICAL DRAWING OF A POWER SUPPLY AND
 IS NOT A SOURCE OF INFORMATION OF A NATURE
 WHICH COULD BE DETERMINED FROM THE DRAWING
 BY AN UNAUTHORIZED PERSON.

CONNECTION TABLE			CONNECTION TABLE		
FROM	TO	SIGNALS	FROM	TO	SIGNALS
P2 FROM TRANS. ASSY	J2 FROM +15V REG.	28 VAC	P4 FROM +15V REG.	J2 LOCATED ON PWR DIST BD	-15V, LTC L, AC LO L, AC LO L, GND
J16 FROM PWR. DIST. BD.	P16 LOCATED ON REG. #4 (H754)	GND, -5V, +20V 28 VAC			
J15 FROM PWR. DIST. BD.	P15 LOCATED ON REG. #3 (H744)	GND +5V, 28VAC	P5 FROM TRANS. ASSY	J5 LOCATED ON AC INPUT BOX	120/240 VAC
J14 FROM PWR. DIST. BD.	P14 LOCATED ON REG. #2 (H744)	GND, +15V, 28VAC	P7 (RED)	FAN #1 - A	120 VAC - HOT
J13 FROM PWR. DIST. BD.	P13 LOCATED ON REG. #1 (H745)	GND, +15V, -15V 28 VAC	P8 (WHT)	FAN #1 - B	120 VAC - NEUTRAL
GND LUG LOCATED ON PWR. DIST. BD. G3	G1 YEL LUG	SAFETY GROUND	P9 (RED)	FAN #2 - A	120 VAC - HOT
P1 FROM TRANS. ASSY	J1 LOCATED ON PWR. DIST. BD.	28 VAC	P10 (WHT)	FAN #2 - B	120 VAC - NEUTRAL
			T1 - G	G1	SAFETY GROUND
			G1	G2	ITEM 55



- COMMON SIGNAL NAMES FOR 6-PIN AND 15-PIN MATEN-LOKS ON POWER DISTRIBUTION BOARD
- | | |
|-------------|--------------|
| 6 - PIN | 15 - PIN |
| 1 - GND | 1 - +5V |
| 2 - LTC L | 2 - +15V |
| 3 - DC LO L | 3 - +20V |
| 4 - AC LO L | 4 - +5V |
| 5 - SPARE 4 | 5 - GND |
| 6 - SPARE 5 | 6 - SPARE 1 |
| | 7 - GND |
| | 8 - GND |
| | 9 - GND |
| | 10 - SPARE 2 |
| | 11 - GND |
| | 12 - SPARE 3 |
| | 13 - +15V |
| | 14 - +5V |
| | 15 - SPARE 3 |

REMOTE POWER CONTROL
 - 3 : ON
 2-3 : OFF

CPU CONSOLE POWER SWITCH
 1-3 : ON

SEE NOTE 2

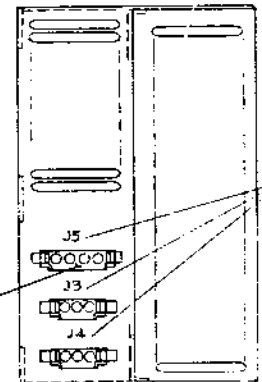
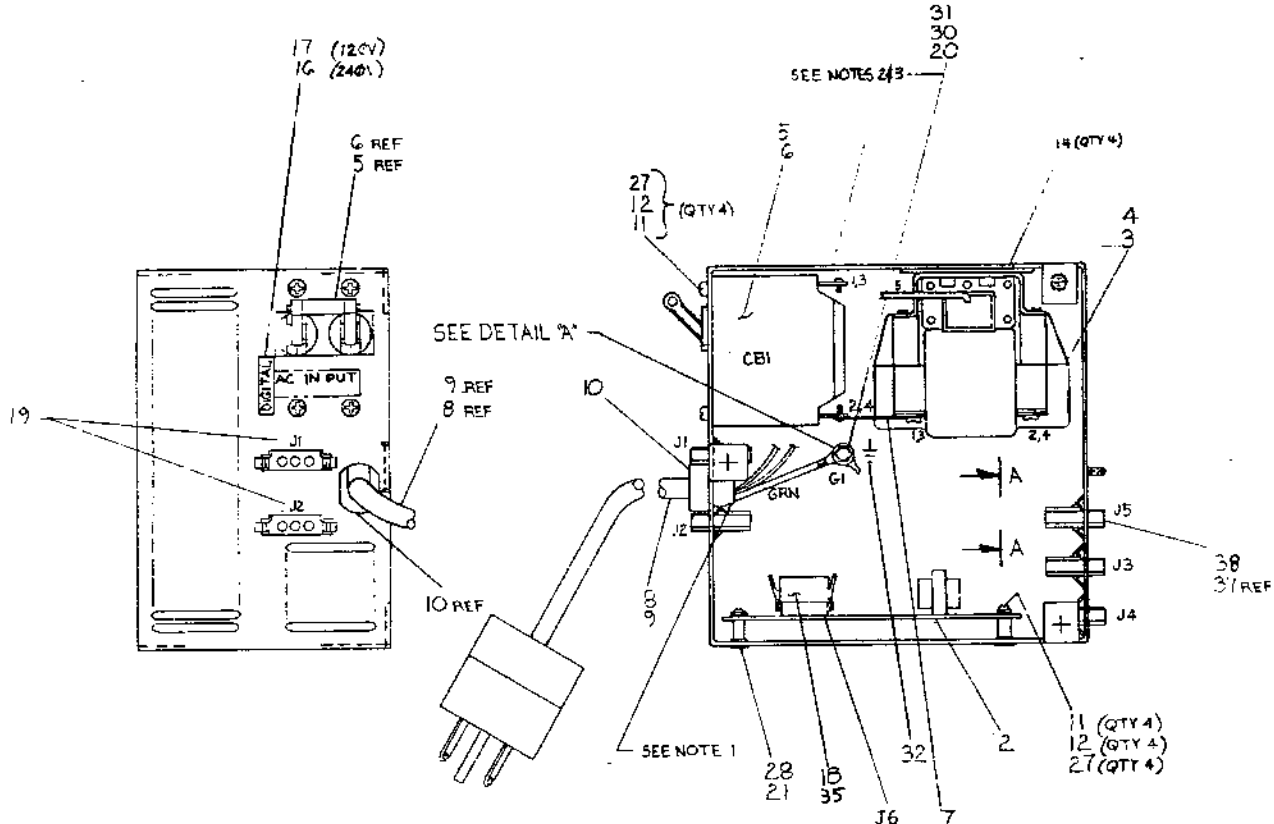
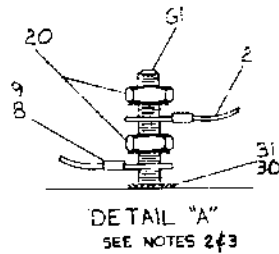
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NOTES:

1. LEAVE .5IN ±.2IN OF OUTER INSULATION OF LINE CORD INSIDE BOX.
2. REMOVE PAINT MASK FROM G1 ONLY AND APPLY CONDUCTIVE GREASE TO AREA AROUND STUD G1 BEFORE INSTALLING ITEMS #31 (LOCKWASHER), LUG ON GRN/YEL WIRE AND #20 (KEPNUT).
3. ENSURE THAT LUG CONNECTED TO GRN/YEL WIRE FROM LINE CORD, WASHER ITEM #31, AND KEPNUT ITEM #20 ARE THE FIRST ITEMS INSTALLED ON G1. SEE DETAIL "A".
4. STRIP LENGTH FOR ITEM #36 AND ITEM #29 SHALL BE .250 ± .015.
5. STRIP LENGTH FOR ITEM #37
 - A. HAND CRIMP .187 ± .015
 - B. AUTOMATIC STRIP .156 ± .015
6. STRIP LENGTH FOR ITEM #35
 - A. HAND CRIMP .203 ± .015
 - B. AUTOMATIC STRIP .182 ± .015

LEGEND	
NUMBER	VARIATION
7014420-1	120V 4T-63HZ 12A
7014420-2	240V 4T-63HZ 6A



QTY	DESCRIPTION	QTY	ITEM NO.
1	COIN 4 PIN	1209350-04	35
4	SOCKET MATE-N-LOCK	1209379	37
7	TERM BLUE RING	9507928	36
4	CONNECTOR SOCKET	1212110-00	35
WR/W	WIRE #18 BRN	9107320-11	34
WR/W	WIRE #18 BLU	9107320-26	33
1	DECAL SAFETY GROUND	A-DC-3012680-01	32
1	WASHER EXT TOOTH #3	9008072	31
WR/W	GREASE CONDUCTIVE	4901175-01	30
3	TERMINAL RED RING	9007930	29
4	SCR PH FL HD 6-32X7/4	9006020-02	28
8	WASHER FLAT #6	9008056	27
REF/PL	A.C. INPUT BOX ASSEMBLY PROCEDURE	A-SP-7014420-07	26
REF/REF	TESTER PARTS LIST	A-PL-7009811-10	25
REF/REF	TESTER TEST PROCEDURE	A-SP-7009811-08	24
REF/REF	TESTER U.A.	A-UA-7009811-08	23
REF/REF	TESTER CS	A-CS-7009811-08	22
4	SPACER 6-32X3/4	9003244	21
2	NUT KEPS #8-32	9004533	20
1	DECAL	A-DC-7403873-15	19
1	CONNECTOR 4 PIN	1212167-01	18
1	DECAL 120V 27-63 HZ 12A	A-DC-7412503-17	17
1	DECAL 240V 47-63 HZ 6A	A-DC-7412503-16	16
4	SCR PH FL HD 4-40X1/4	9006033-06	14
8	WASHER INT TOOTH #6	9006035	13
8	SCR PH FL HD #6-32X2 1/2	9006020-1	11
1	STRAIN RELIEF	9006509	10
1	POWER CORD 240V	D-AD-7012500-1	9
1	POWER CORD 120V	D-AD-7012500-0	8
2	JUMPER STRAP	1214374-02	7
1	CIRCUIT BREAKER 15A	121214-05	6
1	CIRCUIT BREAKER 32A	121214-06	5
1	CONTACTOR 240V	1214283-01	4
1	CONTACTOR 120V	1214283-00	3
1	AC PWR CONTR BOARD	D-35-5413039-01	2
1	CHASSIS COMP MTE	D-1A-7009811-01	1

DESCRIPTION		QTY	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES				
ANGLES	CLASS OF ACCURACY	TOLERANCES UNLESS OTHERWISE SPECIFIED		
90° ± .01	PRECISION	OVER 12	OVER 6	OVER 3
SURFACE QUALITY	FINISH	1.000	0.002	0.001
QUALITY	FINISH	1.000	0.002	0.001
QUANTITY & VARIATION	PREFERRED	1.000	0.002	0.001
THIRD ANGLE PROJECTION				
DRAWN BY: [Signature] DATE: 7-20-77				
CHK'D BY: [Signature] DATE: 7-22-77				
ENGR BY: [Signature] DATE: 7-22-77				
PROG BY: [Signature] DATE: 7-22-77				
DO NOT SCALE DIMS				
NEXT HIGHER ASSY:				
MATERIAL	SIZE	CODE	NUMBER	REV.
SEE PARTS LIST	D	AD	7014420-0-0	A
SHEET	1	OF	2	DIST.

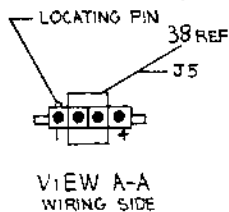
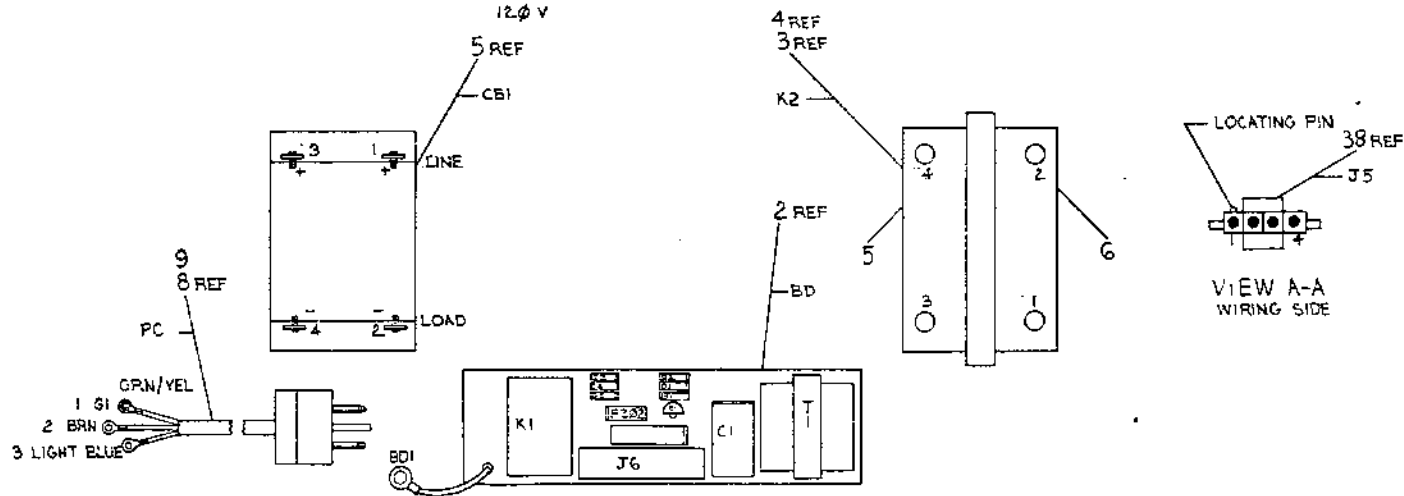
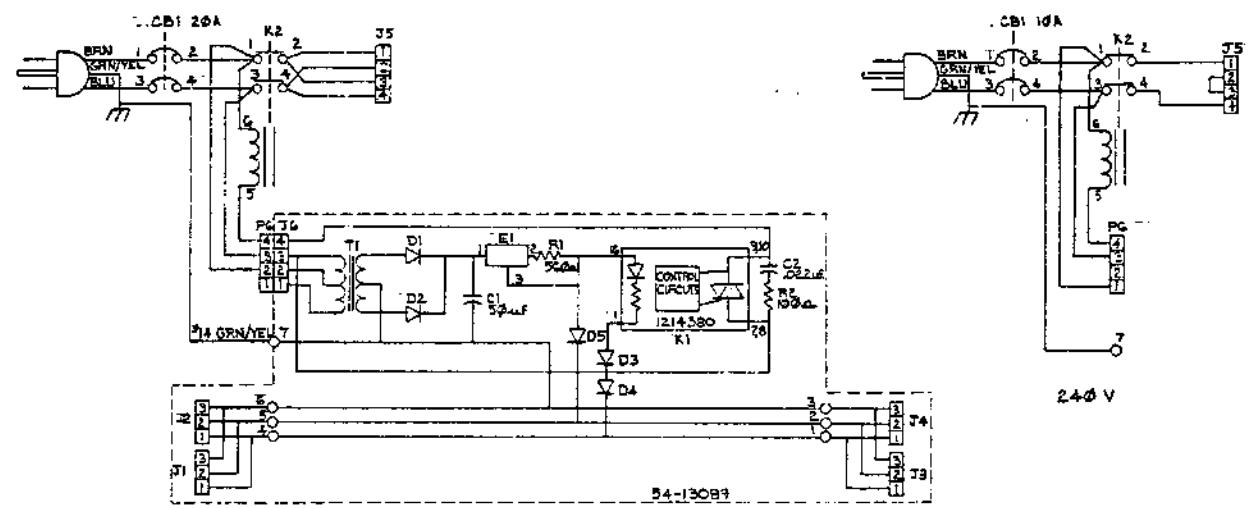
REVISIONS
 CHANGE NO. 1
 BY: [Signature]
 DATE: 10-77

8 7 6 5 4 3 2 1

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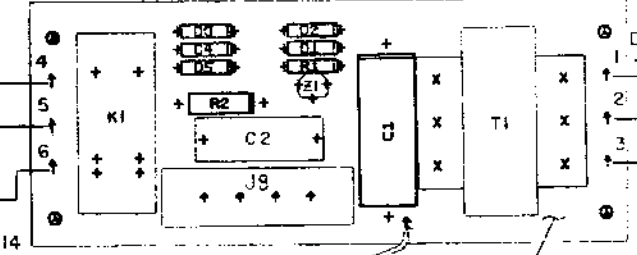
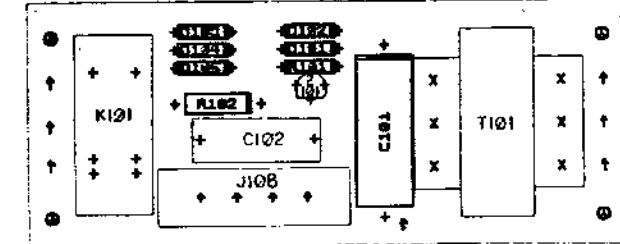
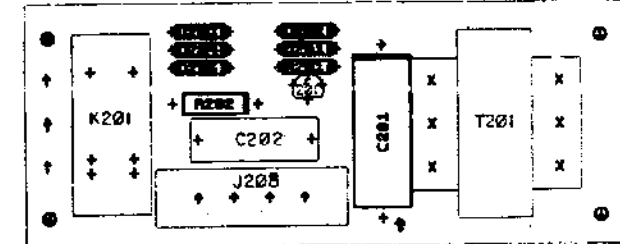
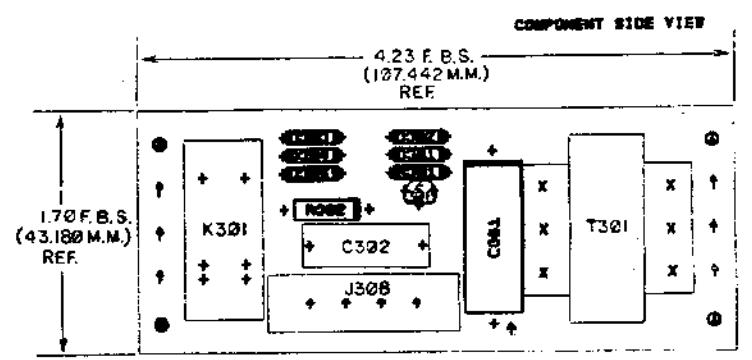
WIRE TABLE-1 VAR 120V					
ITEM NO	DESCRIPTION	FROM	TO	PRECUT WIRE LENGTH	
8	14 GRN/YEL	SEE NOTE 3 PC-1	G1		
8	14 BRN	PC-2	CBI-1		
8	14 BLU	PC-3	CBI-3		
33	18 BLU	SEE NOTE 4 | K2-4	36 SEE NOTE 5 | J5-2	37	3.0 ± 0.25
			J5-4	37	3.0 ± 0.25
34	18 BRN	SEE NOTE 4 | K2-2	36 SEE NOTE 5 | J5-1	37	3.0 ± 0.25
			J5-3	37	3.0 ± 0.25
34	18 BRN	SEE NOTE 4 | K2-1	36 SEE NOTE 4 | PG-2	35	3.5 ± 0.25
3	18 YEL	SEE NOTE 4	K2-6		3.5 ± 0.25
7					STRAP
33	18 BLU	SEE NOTE 4 | K2-3	29 SEE NOTE 6 | PG-3	35	3.0 ± 0.25
7					STRAP
3	18 YEL	SEE NOTE 4 | K2-5	SEE NOTE 6 | PG-4	35	4.75 ± 0.25
2	18 GRN/YEL	SEE NOTE 6 | BD-1	G1		

WIRE TABLE-2 VAR 240V					
ITEM NO	DESCRIPTION	FROM	TO	PRECUT WIRE LENGTH	
9	14 GRN/YEL	SEE NOTE 3 | PC-1	G1		
9	14 BRN	PC-2	CBI-1		
9	14 BLU	PC-3	CBI-3		
33	18 BLU	SEE NOTE 4 | K2-4	29 SEE NOTE 5 | J5-4	37	3.0 ± 0.25
34	18 BRN	SEE NOTE 4 | K2-2	29 SEE NOTE 5 | J5-1	37	3.0 ± 0.25
34	18 BRN	SEE NOTE 5 | J5-2	37 SEE NOTE 5 | J5-3	37	2.0 ± 0.25
34	18 BRN	SEE NOTE 5 | J5-3	37 SEE NOTE 5 | J5-3	37	2.0 ± 0.25
4	18 YEL	SEE NOTE 4 | K2-1	36 SEE NOTE 6 | PG-1	35	3.5 ± 0.25
7					STRAP
33	18 BLU	SEE NOTE 4 | K2-3	29 SEE NOTE 6 | PG-3	35	3.0 ± 0.25
7					STRAP
4	18 YEL	SEE NOTE 4 | K2-5	SEE NOTE 6 | PG-4	35	4.75 ± 0.25
2	18 GRN/YEL	SEE NOTE 6 | BD-1	G1		



REVISIONS		
NO.	CHANGE NO.	REV.

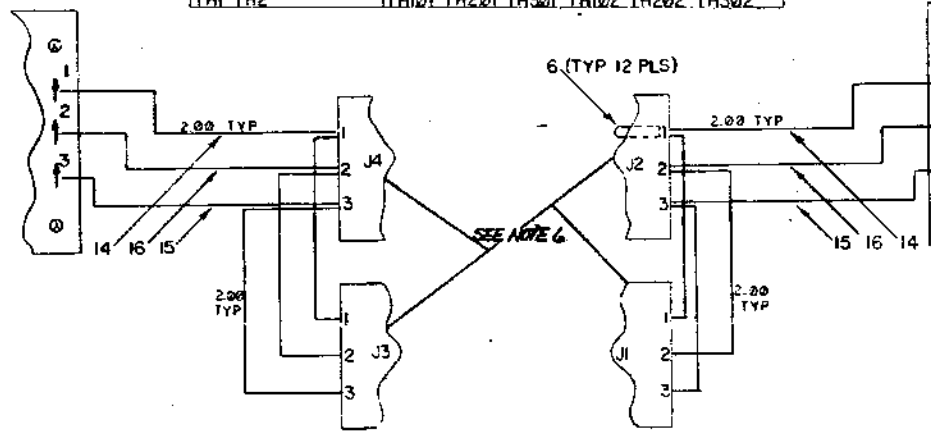
TITLE AC INPUT BOX ASSY. D AD 701442C-3-0 A



ACTUAL REF DES	SUPERFICIAL REF DES	REFERENCE DESIGNATION CHART
C1 C2	C101 C201 C301 C102 C202 C302	
D1 D2	D101 D201 D301 D102 D202 D302	
D3 D4	D103 D203 D303 D104 D204 D304	
D5	D105 D205 D305	
J8	J108 J208 J308	
K1	K101 K201 K301	
R1 R2	R101 R201 R301 R102 R202 R302	
T1	T101 T201 T301	
Z1	Z101 Z201 Z301	
TH1 TH2	TH101 TH201 TH301 TH102 TH202 TH302	



DETAIL A



4. J1, J2, J3 AND J4 ARE NOT USED ON NOTES: YA VARIANT.

1. 8 HOLES IN THIS BOARD ARE FOR MOUNTING ONLY
2. THIS BOARD REQUIRES M/I APPROVAL
3. DO NOT CUT BOARD, MUST BE SHEARED
4. REFER TO PARTS LIST FOR IDENTIFICATION OF NUMBERED ITEMS
5. MULTI-REF DESIGNATIONS ARE USED TO ACCOMMODATE PNL KNS TECH NOTES - SEE CHART FOR

REV	DATE	BY	CHKD	APP	DESCRIPTION
1	10/15/77	...	...	...	...
2	...	...	...	...	...

DESIGNED BY	...
CHECKED BY	...
DATE	...
SCALE	...
SHEET	...
TOTAL SHEETS	...

SIGNATURES	DATE
...	...
...	...

TITLE: digital
A.C. CONTROL BOARD

SIZE CODE: 0 UA 16413089-0-2 D

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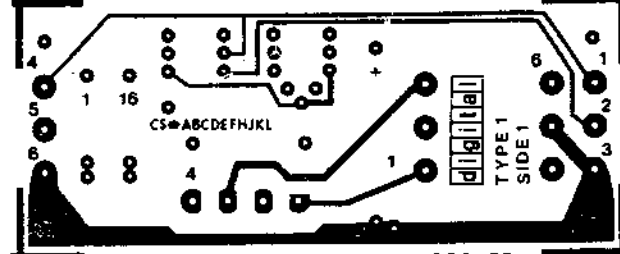
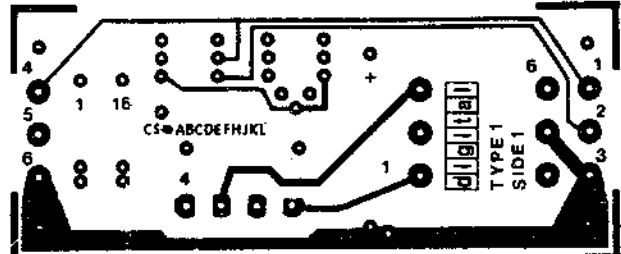
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2013088 2413089

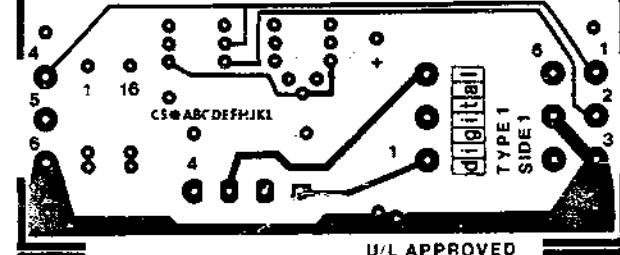
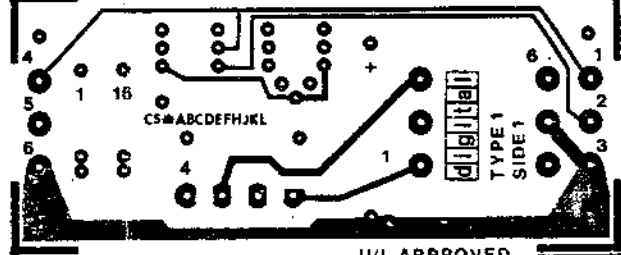


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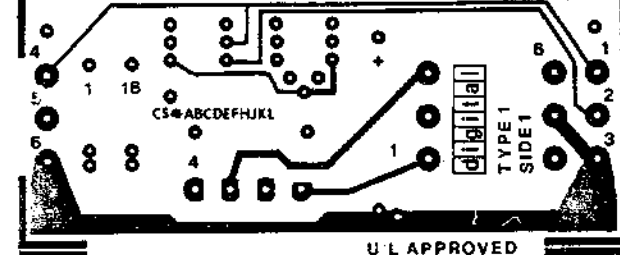
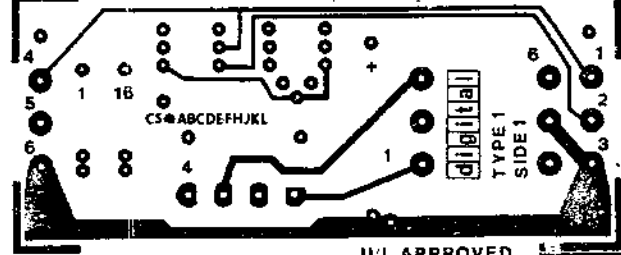


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B

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U/L APPROVED

U/L APPROVED

A

A

VIEWED FROM SIDE 1

REV	DATE	BY	CHKD

AC CONTROL BOARD DUA 2413089-0-0 D

8

7

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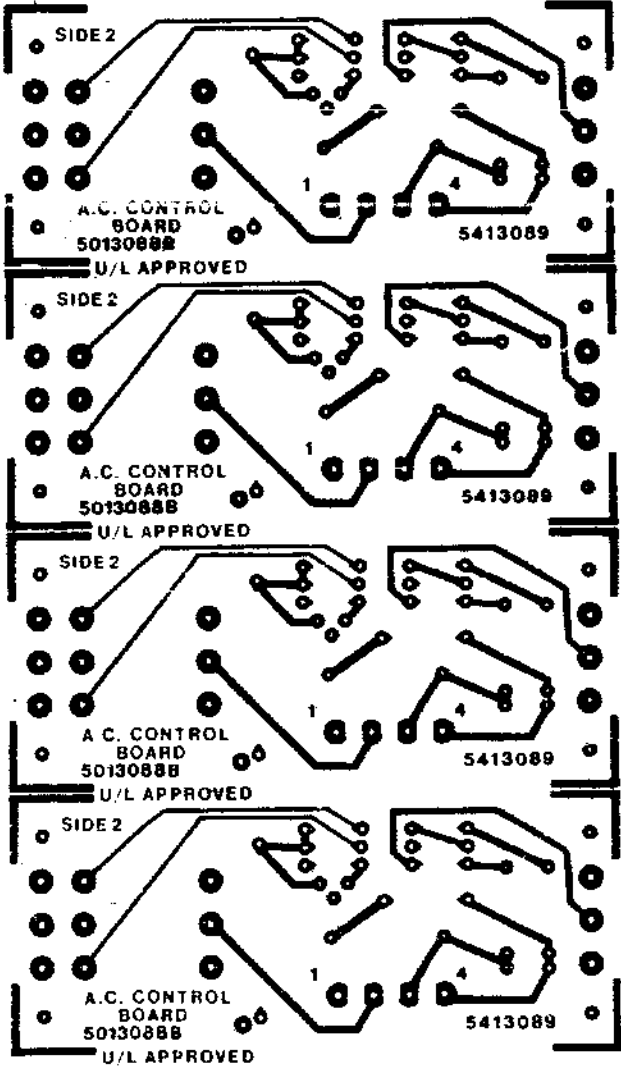
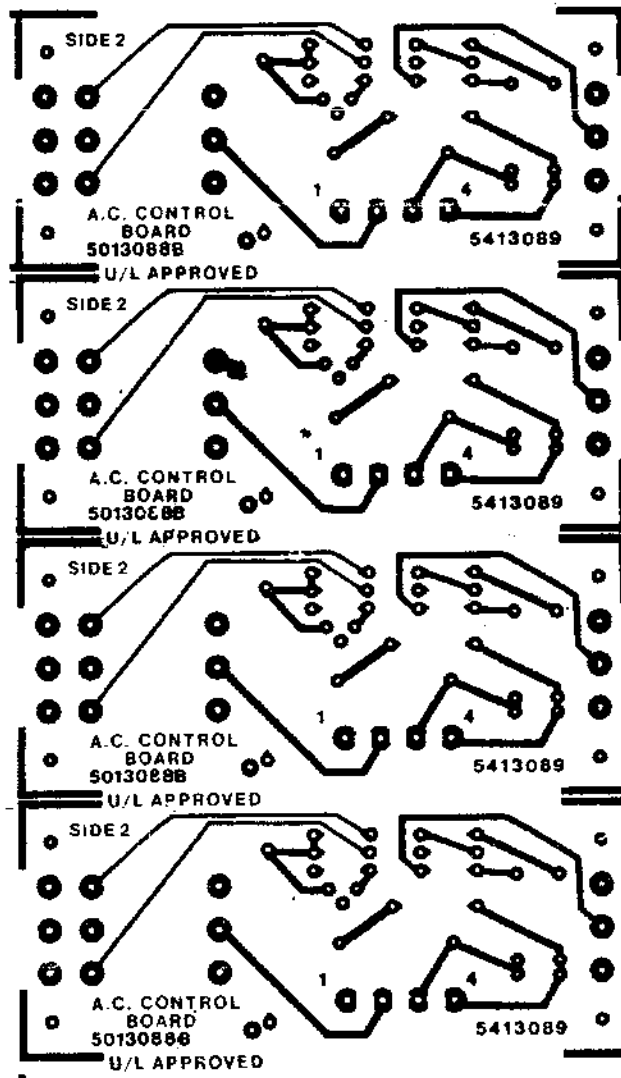
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434



VIEWED FROM SIDE 2

A.C. CONTROL BOARD D, LA 5413089-C-0 0
 1-3-3

435

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DRAWING DIRECTORY

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CUSTOMER PRINT SET

DRAWING DIRECTORY B-DD-H744-0
 CIRCUIT SCHEMATIC D-CS-H744-0-1
 UNIT ASSY E-UA-H744-0-0

MFG SET

TEST PROCEDURE A-SP-H744-0-3
 MFG SPEC A-SP-H744-0-8
 PACKAGING INST A-PI-3700074-0-0


UNIT VARIATIONS

VAR	TITLE
H744	+5V REGULATOR
H744-YA	2.0 - 8.0V VARIABLE REGULATOR

REVISIONS	CHK	CHANGE NO.	REV.
		00019	R
	JA	00020	S

USED ON OPTION/MODEL 11/45	DRN. D. FONTAINE	DATE 2-4-72	TITLE +5V REGULATOR digital								
	CHK'D. D. FONTAINE	DATE 2-4-72	<table border="1" style="border-collapse: collapse; width: 100%;"> <thead> <tr> <th>SIZE</th> <th>CODE</th> <th>NUMBER</th> <th>REV</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>DD</td> <td>H744-0</td> <td>S</td> </tr> </tbody> </table>	SIZE	CODE	NUMBER	REV	B	DD	H744-0	S
SIZE	CODE	NUMBER		REV							
B	DD	H744-0	S								
	PROJ. ENG. G. POTTER	DATE 2-24-72									
SHEET OF 4	PROD. A. HIRSCH	DATE 2-24-72	DIST.								

436

DRAWING NO.	NO. OF SHTS	PART NO.	DESCRIPTION	REVISIONS																	
				Y	Y	Y															
D-AH-H744-0-5			ASSY DRILLING/HOLE LAYOUT	Y	Y	Y															
E-UA-H744-0-0	1		UNIT ASSY	Y	Z	AA															
D-CS-H744-0-1	1		CIRCUIT SCHEMATIC	Y	Y	Y															
B-MH-H744-0-6	4		MODULE ECO HISTORY	AD	AE	AE															
		5009725	ETCHED BOARD	H	H	H															
A-SP-H744-0-3			TEST PROCEDURE	REF	REF																
A-SP-H744-0-8			MFG SPEC	REF	REF																
D-PS-1210737-0-0	1		HEAT SINK	REF	REF																
D-IA-5309756-0-0	1		REGULATOR BRK'T	REF	REF																
C-MD-5309760-0-0	1		COMPONENT COVER	REF	REF																
C-MD-5309759-0-0	1		CAPACITOR STRAP	REF	REF																
A-PI-3700074-0-0	2		PACKAGING INSTRUCTION	REF	REF																
A-PS-9905211-0-0	2		OUTER CARTON	REF	REF																
A-PS-9905212-0-0	2		INNER PACKAGING	REF	REF																
C-IA-7412388-0-0			2.5 CAP HOLDER	REF	REF																
C-MD-7419952-0-0			COMPONENT COVER	REF																	
NOTES:				REVISIONS																	
				DATE	00018	00019	00020														
				CHG NO.	2-77	3-78															
				REV.	R	S															
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								11/45	D. FONTAINE	2-4-72	+5V REGULATOR										
									CHK'D	D. FONTAINE	2-4-72										
									ENG.	G. POTTER	2-24-72	SIZE CODE	NUMBER								
	PROD.	A. HIRSCH	2-24-72	BDD	H744-0																
								SHEET 2 OF 4													

437

DRAWING NO.	NO. OF SHTS	PART NO.	DESCRIPTION	REVISIONS																				
D-AH-H744-Ø-5			ASSY DRILLING/HOLE LAYOUT	Y	Y																			
E-UA-H744-Ø-Ø	1		UNIT ASSY	W	W1																			
D-CS-H744-Ø-1	1		CIRCUIT SCHEMATIC	W	W1																			
B-MH-H744-Ø-6	4		MODULE ECO HISTORY	AC	AE																			
		5009725	ETCHED BOARD	H	H																			
A-SP-H744-Ø-3			TEST PROCEDURE	REF																				
A-SP-H744-Ø-8			MFG SPEC	REF																				
D-PS-1210737-Ø-Ø	1		HEAT SINK	REF																				
D-IA-5309756-Ø-Ø	1		REGULATOR BRK'T	REF																				
C-MD-5309760-Ø-Ø	i		COMPONENT COVER	REF																				
C-MD-5309759-Ø-Ø	1		CAPACITOR STRAP	REF																				
A-PI-3700074-Ø-Ø	2		PACKAGING INSTRUCTION	REF																				
A-PS-9905211-Ø-Ø	2		OUTER CARTON	REF																				
A-PS-9905212-Ø-Ø	2		INNER PACKAGING	REF																				
C-IA-7412388-Ø-Ø			2.5 CAP HOLDER	REF																				
C-MD-7419952-Ø-Ø			COMPONENT COVER	REF																				


NOTES:

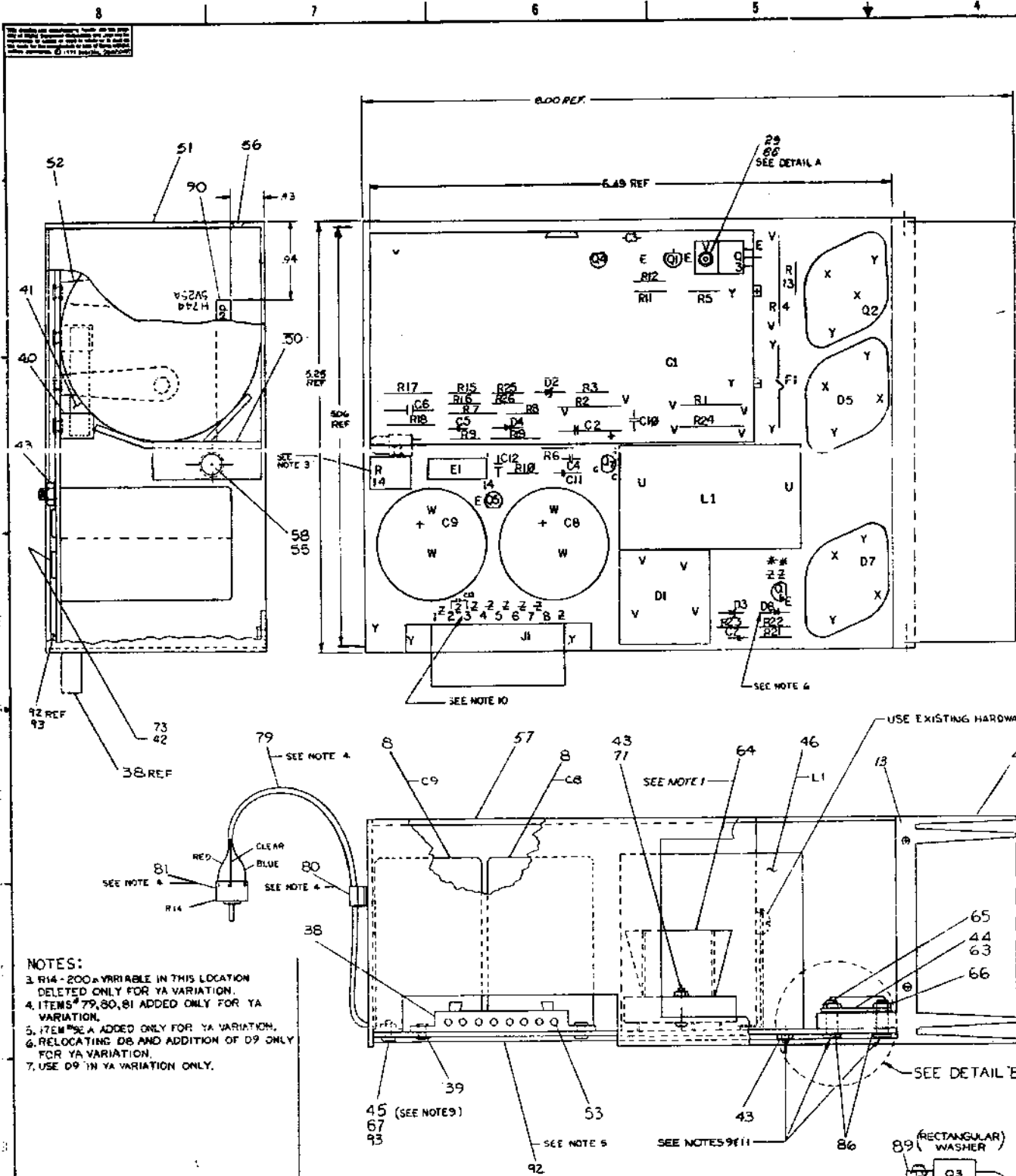
REVISIONS	DATE	CHG NO	REV	REVISIONS																				
	2-77	00017	R																					
		00019																						

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USED ON OPTION/MODEL	DRN.	TITLE	SIZE CODE	NUMBER	REV.
11/45	D. FONTAINE	+5V REGULATOR	B DD	H744-Ø	S
	CHK'D				
	D. FONTAINE				
	ENG.				
	G. POTTER				
	PROD.				
	A. HIRSCH				

DRAWING NO.	NO. OF SHTS	PART NO.	DESCRIPTION	REVISIONS																	
D-AH-H744-0-5			ASSY DRILLING/HOLE LAYOUT	Y	Y																
E-UA-H744-0-0	1		UNIT ASSY	V	VI																
D-CS-H744-0-1	1		CIRCUIT SCHEMATIC	W	WI																
B-MH-H744-0-6	4		MODULE ECO HISTORY	AB	AE																
		5009725	ETCHED BOARD	H	H																
A-SP-H744-0-3			TEST PROCEDURE	RF	F																
A-SP-H744-0-8			MFG SPEC	R	F																
D-PS-1210737-0-0	1		HEAT SINK	R	F																
D-IA-5309756-0-0	1		REGULATOR BRK'T	R	F																
C-MD-5309760-0-0	1		COMPONENT COVER	R	F																
C-MD-5309759-0-0	1		CAPACITOR STRAP	R	F																
A-PI-3700074-0-0	2		PACKAGING INSTRUCTION	R	F																
A-PS-9905211-0-0	2		OUTER CARTON	R	F																
A-PS-9905212-0-0	2		INNER PACKAGING	R	F																
C-IA-7412388-0-0			2.5 CAP HOLDER	R	F																
C-MD-7419952-0-0			COMPONENT COVER	R	F																
NOTES:				REVISIONS	DATE	CHG NO	REV														
					2-77	00019	R														
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				11/45		D. FONTAINE		2-4-72		+5V REGULATOR		BDD		H744-0		S					
						CHK'D															
						D. FONTAINE		2-4-72													
						ENG.															
						G. POTTER		2-24-72													
						PROP.															
						A. HIRSCH		2-24-72		SHEET 4 OF 4											



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 56A ADDED ONLY FOR YA VARIATION.

6. RELOCATING D8 AND ADDITION OF D9 ONLY FOR YA VARIATION.

7. USE D9 IN YA VARIATION ONLY.

1	RES 680 1/4W 5%	130124	29	D	R1	SCR VOLT LAMP	120124	29	D
1	PACKING INSTRUCTIONS	AP 370074	070			WASHER #4	9006632	67	
1	SCR PHL PNH HD #6-32X 5/8 LG	9006025-1	71	7	7	NUT KEPS #4-40	9006857	68	
1	IS VOLT LAMP	120124	29	D	R1	SCR PHL PNH HD #6-32X 5/8 LG	9006025-1	71	7
4	LOCK WASHER #10 INT	9006648	73	1	1	HEAT SINK BRIDGE	1210907	64	

NOTES:

1. APPLY ITEM #63 (COMPOUND) BETWEEN TRANSISTOR (#82), DIODES (D5, D7) AND ITEM #44 (WASHER) ALSO BETWEEN ITEM #44 (WASHER) AND HEAT SINK (ITEM #50). ALSO APPLY ITEM #63 (COMPOUND) BETWEEN ITEM #9 (DIODE BRIDGE) AND ITEM #64 (HEAT SINK BRIDGE).

1	RES 27 1/4W 5%	130124	29	D	R1	5VOLT LAMP	120124	29	D
1	WASHER #4	9006632	67			HEAT SINK BRIDGE	1210907	64	
1	DIODE ZENER 1.8V 5.0V	1109991	58	2	2	COMPOUND THERMAL JOINT	8003888	65	
1	WASHER INT TOOTH #4	9006632	67	1	1	TRANSISTOR 1-2R 175W 50	1300391	62	
1	CAP .22UF 50V	1010274	87	1	1	RESISTOR 7-ER 1/4W 1/8	1301322	61	

NOTES CONT:

NOTE 8:
 (1) Q3 SCREW HEAD SHOULD BE ON TOP OF FLAT RECTANGULAR WASHER AS SHOWN. APPLY 6 INCH LBS OF TORQUE WHEN SECURING Q3 TO CKT. BOARD BEFORE SOLDERING.

NOTE 9: TORQUE APPLICATION
 (1) APPLY 12 INCH LBS OF TORQUE TO THE SCREWS AD OF #4 HARDWARE EXCEPT Q3.
 (2) APPLY 12 INCH LBS OF TORQUE TO #6 HARDWARE ON L1.
 (3) APPLY 16 INCH LBS OF TORQUE TO ALL #6 AND #10 HARDWARE EXCEPT ON L1.
 (4) ALL HARDWARE TO BE TORQUED BEFORE SOLDERING.

NOTE 10:
 INSERT C13 INTO ETCH PAD HOLES CONNECTED TO J1 TERMINALS, 2-3.

NOTE 11:
 MIN. TORQUE REQUIRED FOR Q3 INSERTION:
 8 INCH LBS FOR #4 HARDWARE,
 12 INCH LBS FOR #6 AND #10 HARDWARE

1	DIODE ZENER 1.8V 5.0V	1109991	58	2	2	REACTOR 60 ALMY HPC 1547	1610850	26	
1	WASHER, INT TOOTH #4	9006632	67	1	1	SCR, PHL PNH HD #4, 1/4 LG	9006801	43	
1	CAP .22UF 50V	1010274	87	1	1	WASHER, INSULATOR	9006721	44	
1	RES 10 1/4W 5% FUSIBLE	1312496	59	1	1	NUT, KEPS #6-32	9006856	63	
1	WASHER, RECTANGULAR	9009769	69	2	2	SCR #10-32X5 SLATED PNH HD	9001659-01	42	

2	A	1236	7	12
JUMPER LIST				
J1	1			
J2	1			
J3	1			
J4	1			
J5	1			
J6	1			
J7	1			
J8	1			
J9	1			
J10	1			
J11	1			
J12	1			
J13	1			
J14	1			
J15	1			
J16	1			
J17	1			
J18	1			
J19	1			
J20	1			

QTY	REF	DESCRIPTION	DISPOSITION	REV	DATE
1	D3	DIODE ZENER 1.8V 5.0V			
1	D7	SCR VCR 6AMP-2			
4	4	SCR, PNH #4 1/8 LG 1/8 LG			
1	D5	DIODE #04 NSP BMT			
3	2	DIODE #04 D64			
1	D2	DIODE ZENER 1N4740			
1	D1	DIODE BRIDGE			
2	2	CAP 0.1UF 10V			
1	C1	CAP 31KUF 50V			
2	2	CAP 0.1UF 25V			
1	C2	CAP 0.033UF 100V 10%			
1	C11	CAP 2700PF 100V 5% DM			
2	2	CAP 0.01UF 100V 20% DISC			
1	C6	CAP 2.2UF, 20V, 10%			

FIRST USED ON DIFFERENT D-UN 1742A-B-8

ETCH BOARD REV: H

EQUIPMENT CORPORATION

5V REGULATOR

DEF NO. 1742A-B-8

DATE: 2/71

SEMICONDUCTOR CONVERSION CHART

CUSTOMER PRINT SET INDEX

DRAWING DIRECTORY
 CIRCUIT SCHEMATIC
 UNIT ASS'Y

SEQUENCE

B-DD-H745-Ø
 D-CS-H745-Ø-1
 E-UA-H745-Ø-Ø

SEQUENCE

MFG. SET
 TEST PROCEDURE
 MFG. SPEC.
 PACKAGING INSTRUCTION
 A-SP-11/45-TA-2
 A-SP-H745-Ø-8
 A-PI-3700074-0-0

THIS IS PRINT SET

UNIT VARIATIONS		PRINT SET	
VAR	TITLE	H745-1	
H745	-15V REGULATOR	X	

REVISES

DATE	CHG. NO.	REV
	11745-16	K
	H745-17	L
	H745-18	M
9-76	H745-19	N
10-76	H745-20	P
7-77	H745-22	R

USED ON OPTION/MODEL	D.R.N.	DATE	TITLE
11/45	D. FONTAINE	2-7-72	- 15V REGULATOR
	CHK'D.	DATE	
	J GAUDETTE	2-17-72	
	PROJ ENG.	DATE	
	G. POTTER	2-25-72	
	PRCD.	DATE	
	A. HUSCH	2-25-72	
	FIELD SERV.	DATE	
	A. ZINS	2-25-72	
SHEET	OF		
1	2		
SIZE	CODE	NUMBER	REV
B	DD	H745-Ø	R
DIST			

DEC 16 1973 1062 1A-RVZ

992

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE	FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
1	E-UA-H745-Ø-Ø	UNIT ASSY	E/M				
	D-CS-H745-Ø-1	CIRCUIT SCHEMATIC	E				
	D-AH-H745-Ø-5	ASSY/DRILLING HOLE LAYOUT	E				
	B-MH-H745-Ø-6	MODULE ECO HISTORY	E				
	A-SP-H745-Ø-8	MFG SPEC	E				
	A-SP-11/45-TA-2	TEST PROCEDURE	E				
	D-PS-1210737-0-0	HEAT SINK	M				
	D-IA-5309756-0-0	REGULATOR BRACKET	M				
	C-IA-5309761-0-0	2-5 CAP BRACKET	M				
	C-MD-5309759-0-0	CAPACITOR STRAP	M				
2	A-PI-3700074-0-0	PACKAGING INSTRUCTIONS	M				
	A-PS-9905211-0-0	OUTER CARTON	M				
	A-PS-9905212-0-0	INNER PACKAGE	M				

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



TITLE
-15V REGULATOR

SHEET 2 OF 2

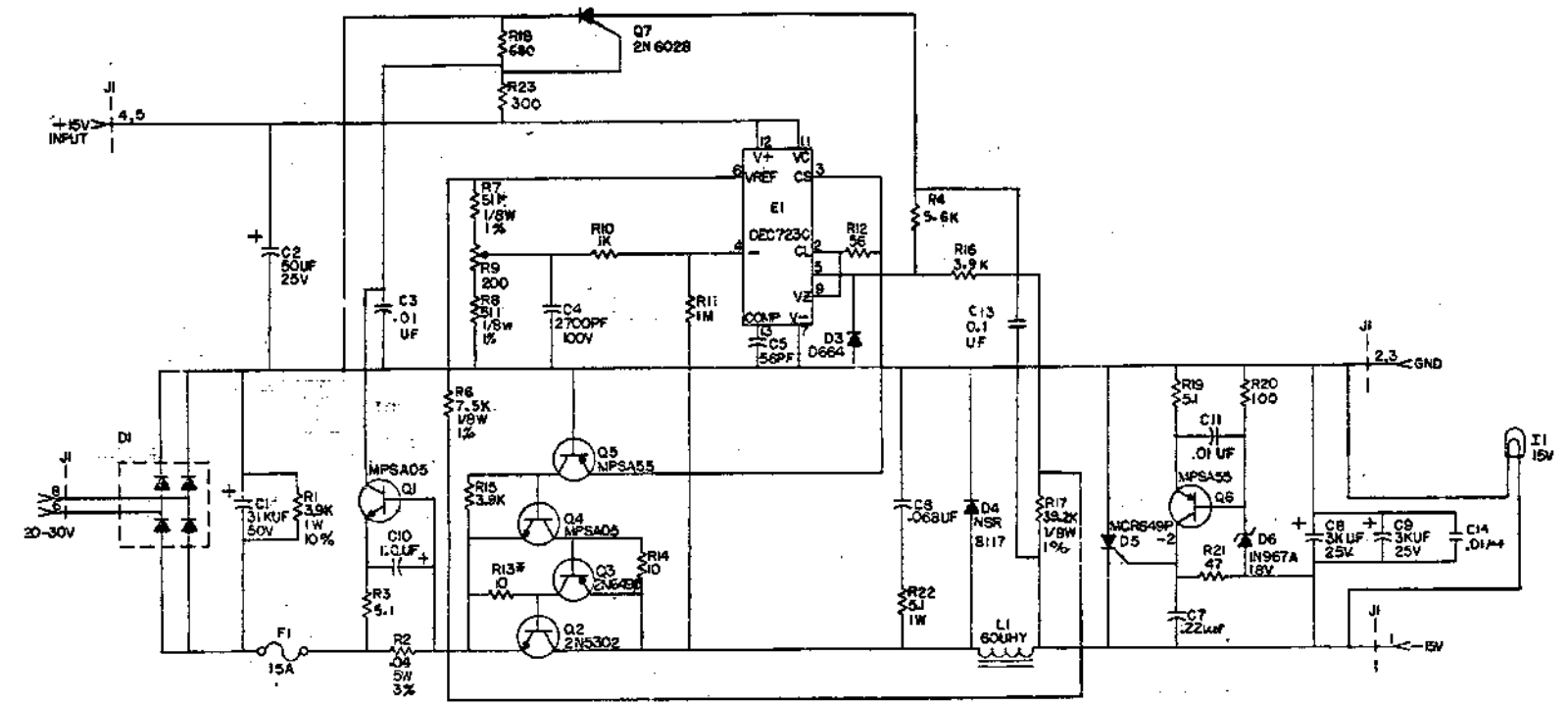
SIZE CODE
B DD

NUMBER
H745-Ø

REV
R

493

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* FUSIBLE
UNLESS OTHERWISE INDICATED:
RESISTORS = 1/4W, 5%

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
ETCH BOARD REV E				
	D664	IN 3806	D45H8	
	NSR 817		2N 6028	
	MCR 649P - 2			
	IN 967A	SAME		
	2N 5302			
	MPS A05			
	MPS A55			
	DEC NO.	EIA NO.	DEC NO.	EIA NO.
SEMICONDUCTOR CONVERSION CHART				
DATE: 11-1-71		DRAWN BY: [Signature]		EQUIPMENT CORPORATION
DATE: 11-1-71		CHECKED BY: [Signature]		CORPORATION
DATE: 11-1-71		APPROVED BY: [Signature]		TITLE
DATE: 11-1-71		DATE: 11-1-71		-15V REG.
DATE: 11-1-71		DATE: 11-1-71		NEXT HIGHER ASSY
DATE: 11-1-71		DATE: 11-1-71		SCALE
DATE: 11-1-71		DATE: 11-1-71		D/C S H745-0-1
DATE: 11-1-71		DATE: 11-1-71		DIST.

997

DRAWING DIRECTORY

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CUSTOMER PRINT SET INDEX

SEQUENCE

SEQUENCE

THIS IS PRINT SET

DRAWING DIRECTORY
+20 VOLT REGULATOR

B-DD-H754-Ø
E-CS-H754-0-1

UNIT VARIATIONS

VAR	TITLE	PRINT SET		
		1		
H754-0	+20 VOLT REGULATOR	X		

REVISIONS		USED ON OPTION/MODEL		DRN.	DATE	TITLE	
DATE	CHG. NO.			J. Fleming	2/21/74	+20 VOLT REGULATOR	
10-75	H754-9			CHK'D.	DATE		
	A			J. Fleming	2/21/74		
11-3	H754-10			PROJ ENG.	DATE		
	B			E. Williams	7-13-74		
				PROD.	DATE	SIZE	CODE
				Paul Harmon	5-14-74	B	DD
				FIELD SERV.	DATE	NUMBER	
				Walt + Aubrey	7/25/74	H754-Ø	
						DIST	REV
							B

DRG 18-13251-105-1A-R772

DRB 106

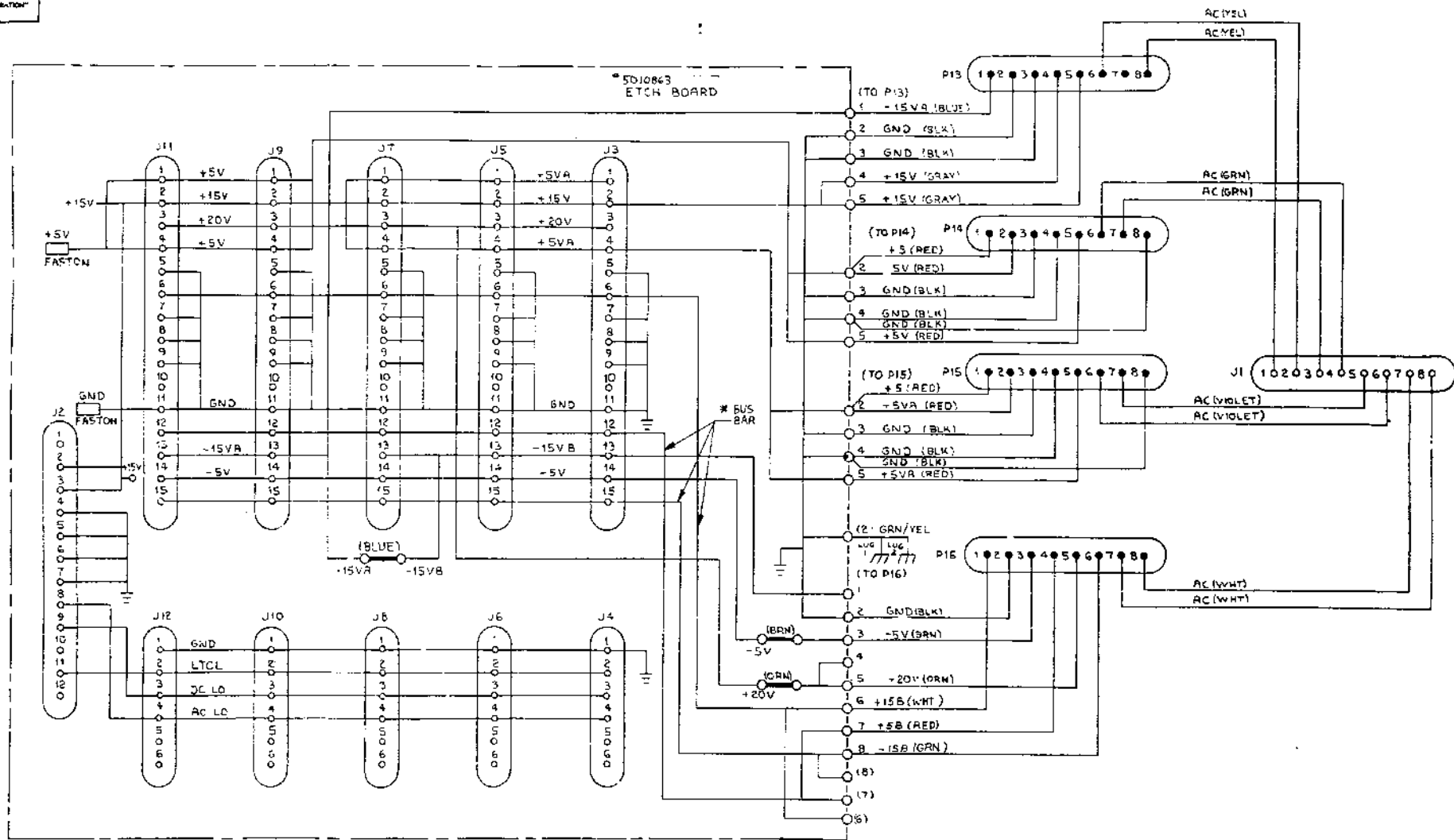
CUSTOMER PRINT SET		ELECTRICAL					CUSTOMER PRINT SET		MECHANICAL							
		MFG SET	FIND NO.	DRAWING NO.	REV	NO OF SHT			DESCRIPTION	OPTION NO./FILE DATE	MFG SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
1			1	B-DD-H754-0	#	3	DRAWING DIPECTORY	X			1	E-CS-H754-0-1	#	2	+20 VOLT REGULATOR	
	X			E-CS-H754-0-1	#	2	+20 VOLT REGULATOR					D-PS-1210737-0-0		1	HEAT SINK REGULATOR	
				K-CO-H754-0-4	-		X-Y COORDINATE HOLE LOCATION					C-IA-5309758-0-0		1	CAPACITOR BRACKET	
				D-AH-H754-0-5		1	ASSY/DRILLING HOLE LAYOUT									
				B-MH-H754-0-6		1	MODULE ECO HISTORY									
				5010531	-		ETCHED CIRCUIT BOARD									
				A-SP-H754-0-8		3	MANUFACTURING SPEC									
												2	D-IA-5409756-0-0	1	BRACKET REGULATOR	
												A-SS-5309756-0-1	1	SILK SCREEN		
												A-SS-5309756-0-2	1	SILK SCREEN		
												A-SS-5309756-0-3	1	SILK SCREEN		

CUSTOMER PRINT SET CODES	X = PRNT OF DOCUMENT INCLUDED IN PRINT SET C = INCLUDES ALL PRINTS INDICATED ON DOCUMENT S = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED	TITLE	+20 VOLT REGULATOR		SHEET 2 OF 3	SIZE CODE	B DD	NUMBER	H754-0	REV	B
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447

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DCS 5410864-0-1 L



* BUS BAR USED IN THE YA VARIATION ONLY

REV	DATE	BY	CHKD	CHANGE NO	APP

TITLE	PWR DIST BOARD	SIZE/COO	NUMBER	REV
SCALE	NONE	SHEET	2 OF 3	L
DIST.		DIST.		

752

1-0-9980195 [REV] 2

BUS BAR CONNECTIONS FOR YA VARIATION

LEVEL A	PDB P16-6 J11, J9, J7, J5, J3 ALL PIN #6	+15V.B
LEVEL B	PDB P16-7 J11, J9, J7, J5, J3 ALL PIN #12	+5V
LEVEL C	PDB P16-8 J11, J9, J7, J5, J3 ALL PIN #15	-15V.B

NOTES:
 1. CS REV. K AND EARLIER PWR DISTRIBUTION BOARDS HAD THE GREEN AND WHITE WIRES REVERSED IN COLOR ONLY. THE POINT-TO-POINT CONNECTIONS REMAIN THE SAME.

WIRE TABLE

ITEM NO	DESCRIPTION	FROM	WITH	CONNECTION	TO	WITH	LENGTH	SIGNAL NAME
24	14 YEL	J1-1	8		P13-8	7	12.5"	AC/H745
24	14 YEL	J1-2	8		P13-6	7	12.5"	AC/H745
25	GRN	J1-3			P16-7		11"	AC/H744-1
25	GRN	J1-4			P14-6		11"	AC/H744-1
26	VIO	J1-5			P15-7		8.75"	AC/H744-2
26	VIO	J1-6			P15-6		8.75"	AC/H744-2
27	WHT	J1-7			P16-8		11.25"	AC/H754
27	WHT	J1-8	8		P16-7		11.25"	AC/H754
23	BLU	PDB P13-1	SOLDER		P13-1		5"	-15V
22	BLK	PDB P13-2			P13-2			GND
22	BLK	PDB P13-3			P13-3			GND
21	GRY	PDB P13-4			P13-4			+15V
21	GRY	PDB P13-5			P13-5			+15V
20	RED	PDB P14-2			P14-2			+5V
22	BLK	PDB P14-3			P14-3			GND
20	RED	PDB P14-4			P14-4			GND
20	RED	PDB P14-5			P14-5			+5V
20	RED	PDB P15-2			P15-2			+5V
22	BLK	PDB P15-3			P15-3			GND
22	BLK	PDB P15-4			P15-4			GND
20	RED	PDB P15-5			P15-5			+5V
22	BLK	PDB P16-2			P16-2			GND
19	BRN	PDB P16-3			P16-3			-5V
18	ORN	PDB P16-5			P16-5	7	5"	+20V
23	BLU	PDB P16-5A			PDB-15B	SOLDER	1.75"	-15V
18	ORN	PDB P16-5			PDB +20V		5"	+20V
19	BRN	PDB P16-3	SOLDER		PDB -5V		2"	-5V
33	GRN/YEL	LUG 1	35		PDB P16-2	SOLDER	11"	SAFETY GND
33	GRN/YEL	LUG 2	34		LUG 2		15"	SAFETY GND
20	RED	PDB P16-7	SOLDER		P16-4	7	5.5"	+5V
20	RED	PDB P15-1			P15-1		5"	+5V
20	RED	PDB P14-1			P14-1		5"	+5V
22	BLK	PDB P15-4			P15-8		5.5"	GND
22	BLK	PDB P14-4			P14-8			GND
27	WHT	PDB P16-6			P16-1			+15V
25	14 GRN	PDB P16-8	SOLDER		P16-6	7	5.5"	-15V

SEE NOTE 1

YA VARIATION ONLY.

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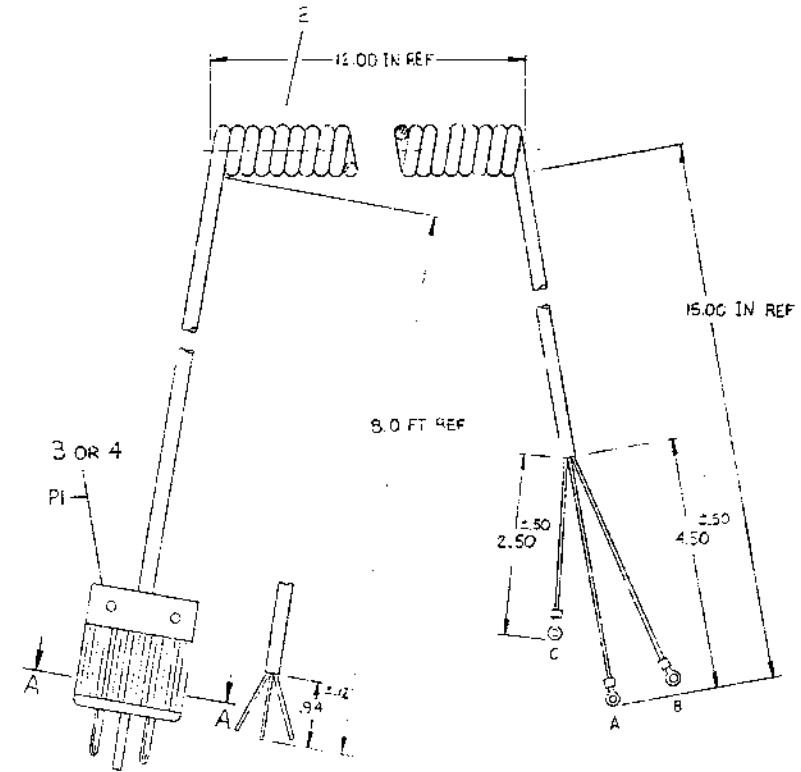
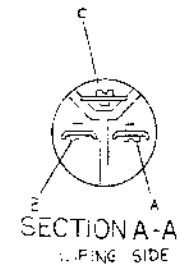
REVISIONS		
CHK	CHANGE NO	REV

TITLE	PWR DIST BOARD	SIZE CODE	D/CS 5410864-0-1	NUMBER	L
SCALE	NONE	SHEET	3 OF 3	DIST	

453

WIRE TABLE (7012500-0)								WIRE TABLE (7012500-1)							
ITEM NO.	DESCRIPTION	AWG	COLOR	FROM CONNECTION	WITH CONNECTION	TO CONNECTION	REMARKS	ITEM NO.	DESCRIPTION	AWG	COLOR	FROM CONNECTION	WITH CONNECTION	TO CONNECTION	REMARKS
2	4	BRN	PI-B	---	B	2	AC LINE	2	4	BRN	PI-B	---	B	2	LINE
2	14	LT BLU	PI-A	---	A	2	AC NEUTRAL	2	14	LT BLU	PI-A	---	A	2	NEUTRAL
2	14	GRN/YEL	PI-C	---	C	2	AC SAFETY GND	2	14	GRN/YEL	PI-C	---	C	2	AC SAFETY GND

NUMBER	VARIATION
7012500-0	120V
7012500-1	240V



QUANTITY & VARIATION	DESCRIPTION	DWG. PART NO.	ITEM NO.
3	TERMINAL RIBS TO 1300	9007725	3
2	TERMINAL RIBS TO 1300	9007910	2
1	PLUG 240 V	9003883	4
1	PLUG 120 V	9003938	3
1	POWER CORD	7000650	2
1	POWER CORD	9000811	1

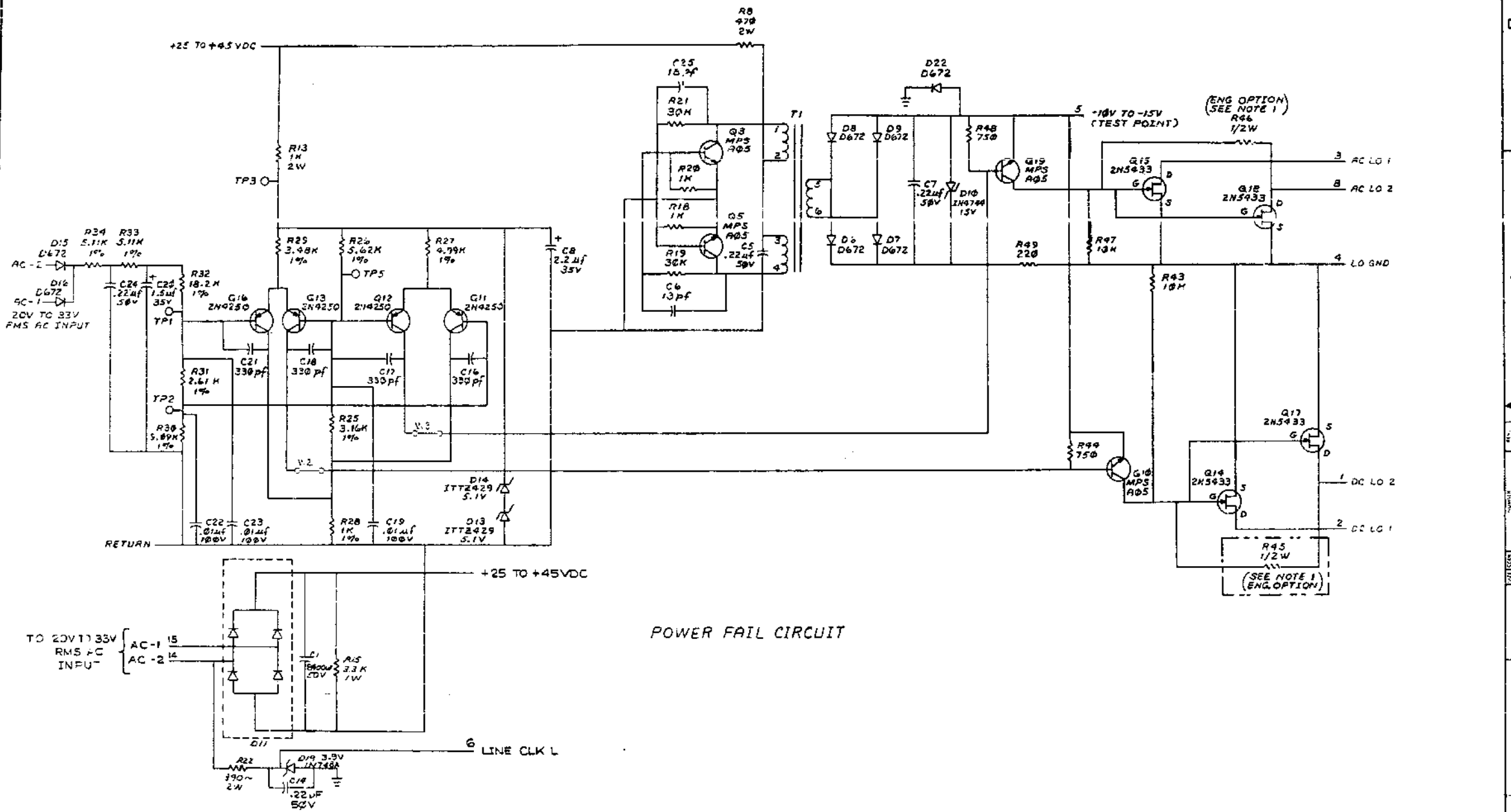
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
ANGLES	CLASS OF ACCURACY
SURFACE QUALITY	FINISH
PRECISION	PREFERRED

THIRD ANGLE PROJECTION	DRN. 2 3/16/76	FIRST USED ON	3A11-K
REMOVE BURRS AND BREAK SHARP CORNERS	CHKD. 3/16/76	TITLE	POWER CORD 120V 240V
DO NOT SCALE DWG.	ENG. 3/16/76	SIZE	D
MATERIAL SEE PARTS LIST	PROL. ENCL. 3/16/76	SCALE	NONE
FINISH	PROD. 3/16/76	NUMBER	7012500-0-0
		REV	B

REV.	DESCRIPTION
1	INITIAL DESIGN
2	REVISED
3	REVISED
4	REVISED
5	REVISED
6	REVISED
7	REVISED
8	REVISED

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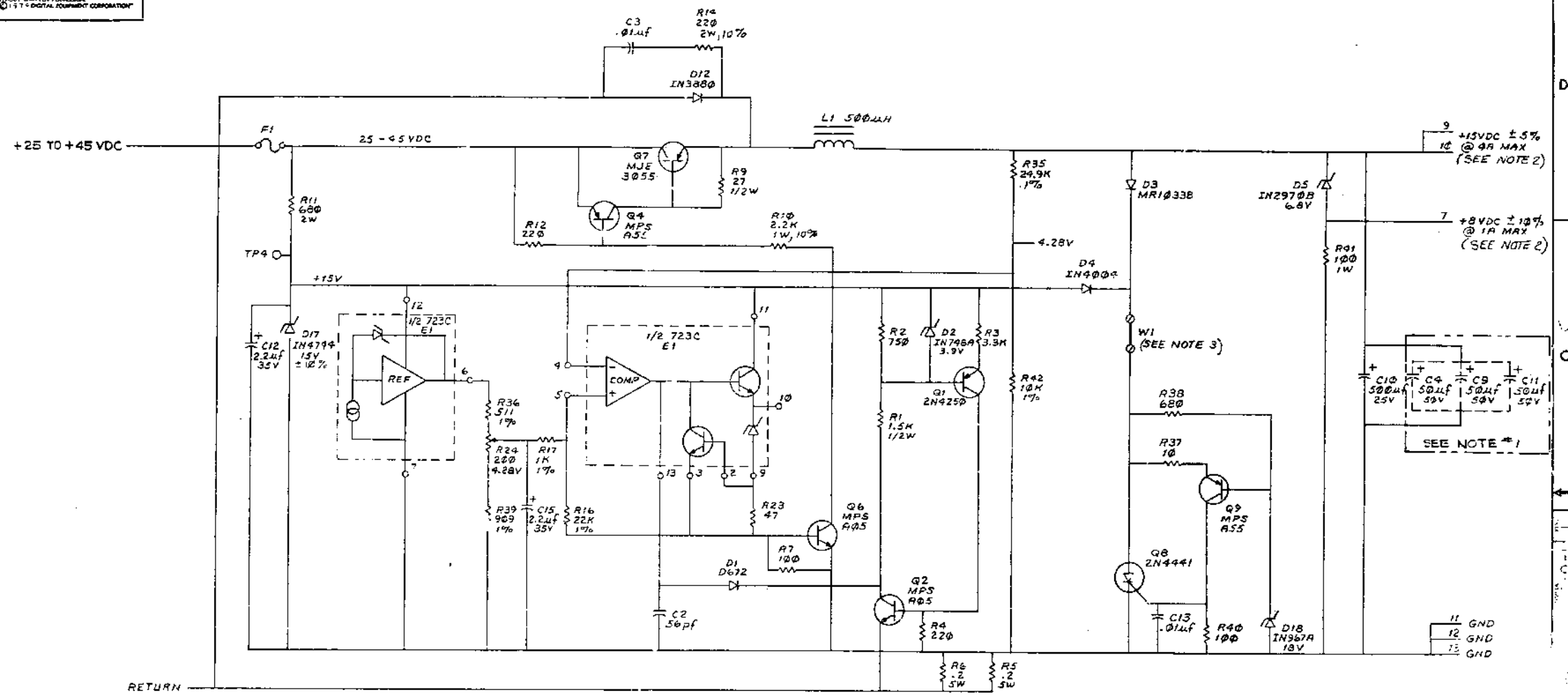
POWER FAIL CIRCUIT

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	PWR. LINE MONITOR/15V REG.	SIZE/DWG	NUMBER	REV.
SCALE	SHEET 3 OF 3	DIST.	D/CS 5411086-0-1	L

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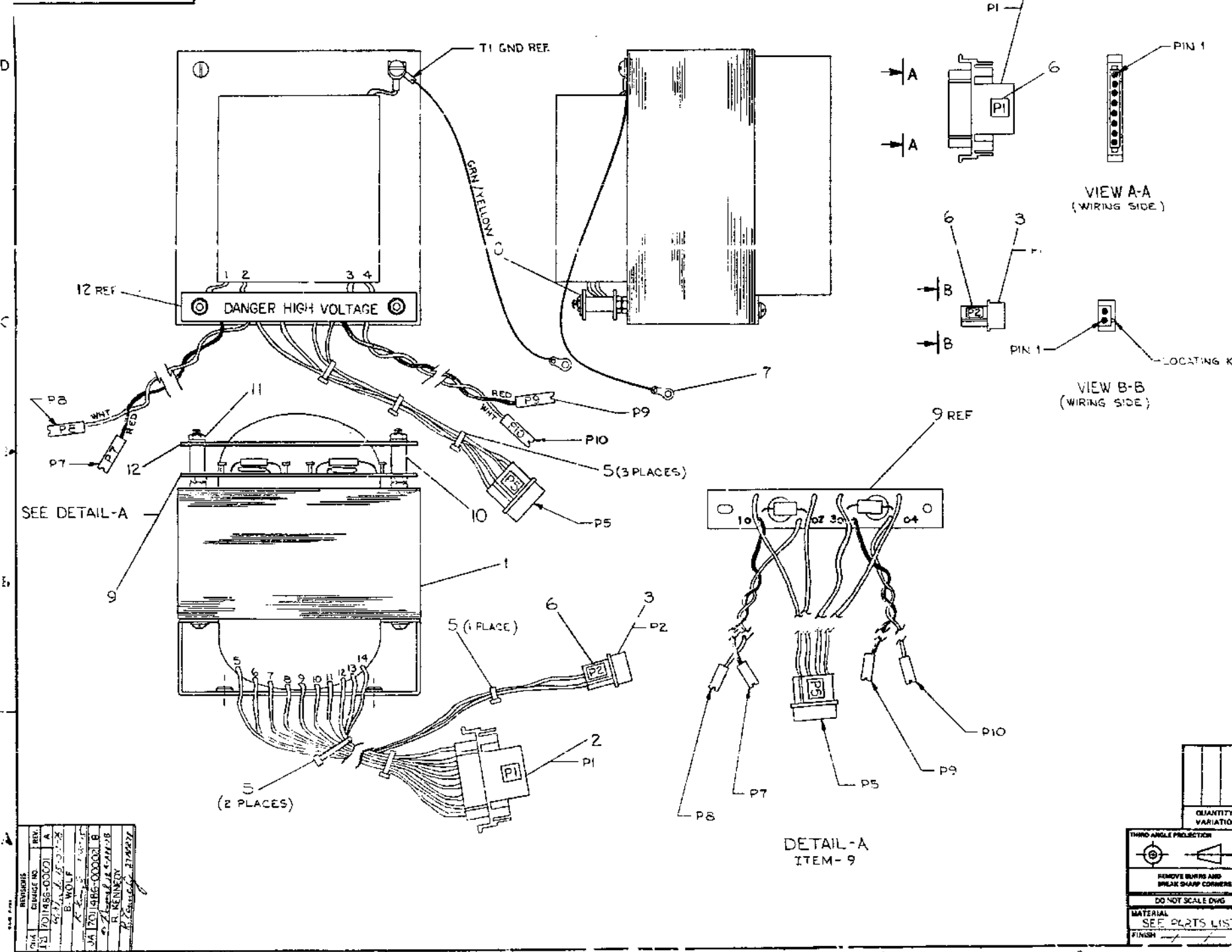
15V REGULATOR
(SEE NOTE #4)

REVISES		
CHK	CHANGE NO.	REV.

TITLE	PWR. LINE MONITOR/15V REG.	SIZE CODE	NUMBER	REV.
SCALE	SHEET 5 OF 4	DIST.	DICS5411086-0-1	L

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REF	DESCRIPTION	QTY	QTY	QTY	QTY	QTY	QTY
13	TRANSFORMER ASSY	1	1	1	1	1	1
1	COVER	1	1	1	1	1	1
2	NUT, KEP# 0-32	1	1	1	1	1	1
2	SPACER, 3/8 DIA X 1/2 LG	1	1	1	1	1	1
1	CAP MOV BOARD ASSY	1	1	1	1	1	1
2	WASHER, FLAT #37 X .218 ID	1	1	1	1	1	1
1	GROUND LUG	1	1	1	1	1	1
1	DECAL	1	1	1	1	1	1
A/R	CABLE TIES 5/16 X 1/8 W	1	1	1	1	1	1
10	PIN, MALE	1	1	1	1	1	1
1	CONN., 2 PIN	1	1	1	1	1	1
1	CONN., 8 PIN	1	1	1	1	1	1
1	TRANSFORMER	1	1	1	1	1	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		TYPICAL DIMENSION RANGES IN INCHES									
ANGLE	CLASS OF ACCURACY	SIZE 0	SIZE 1	SIZE 2	SIZE 3	SIZE 4	SIZE 5	SIZE 6	SIZE 7	SIZE 8	SIZE 9
SURFACE FINISH	CHECK QMD	0.005	0.004	0.003	0.002	0.001	0.001	0.001	0.001	0.001	0.001
QUALITY IN	MEDIUM	0.005	0.004	0.003	0.002	0.001	0.001	0.001	0.001	0.001	0.001
QUANTITY & VARIATION	MICRONICHES	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
THIRD ANGLE PROJECTION	DRY: <i>[Signature]</i>	FIRST USED ON: H-52 digital									
REMOVE BURRS AND BREAK SHARP CORNERS	PROJ. ENGR. <i>[Signature]</i>	TITLE: TRANSFORMER ASSY									
DO NOT SCALE DWG	NEXT HIGHER ASSY.	MATERIAL: SEE PARTS LIST									
FINISH	SCALE 1/1	SHEET 1 OF 2									

REV.	DESCRIPTION	DATE	BY	CHKD.
1	INITIAL RELEASE	10/10/75	A. WOLF	A. WOLF
2	REVISED TO ADD PINS 11, 12	11/10/75	R. KEENE	R. KEENE
3	REVISED TO ADD PINS 13, 14	12/10/75	R. KEENE	R. KEENE

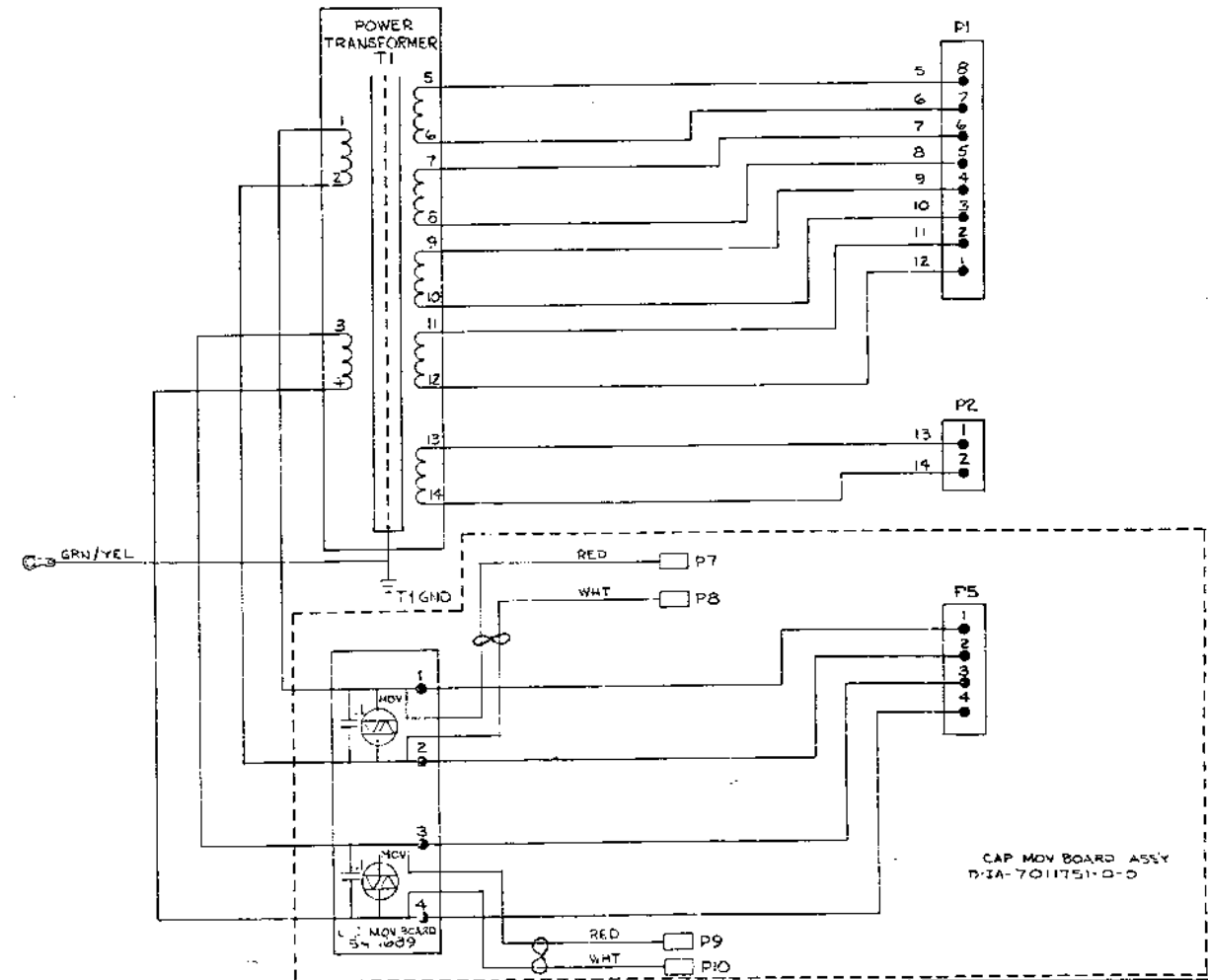
459

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WIRE TABLE							
ITEM NO.	DESCRIPTION		FROM		TO		WIRE LENGTH
	AWG	COLOR	CONNECTION	WITH	CONNECTION	WITH	
1	14	BLK	T1-1	---	CAP MOV BD-1	SOLDER	1.5 IN
			T1-2	---	CAP MOV BD-2	SOLDER	2.0 IN
			T1-3	---	CAP MOV BD-3	SOLDER	2.0 IN
			T1-4	---	CAP MOV BD-4	SOLDER	1.5 IN
			T1-5	---	P1-8	ITEM 4	12.0 IN
			T1-6	---	P1-7		
			T1-7	---	P1-6		
			T1-8	---	P1-5		
			T1-9	---	P1-4		
			T1-10	---	P1-3		
			T1-11	---	P1-2		
			T1-12	---	P1-1	ITEM 4	
1	14	BLK	T1-13	---	P2-1	ITEM 4	
1	14	GRN/YEL	T1-14	---	P2-2	ITEM 4	12.0 IN
1	14	GRN/YEL	T1-GND	---	GND LUG (ITEM 3)	SOLDER	16.0 IN

D
C
B
A

D
C
B
A

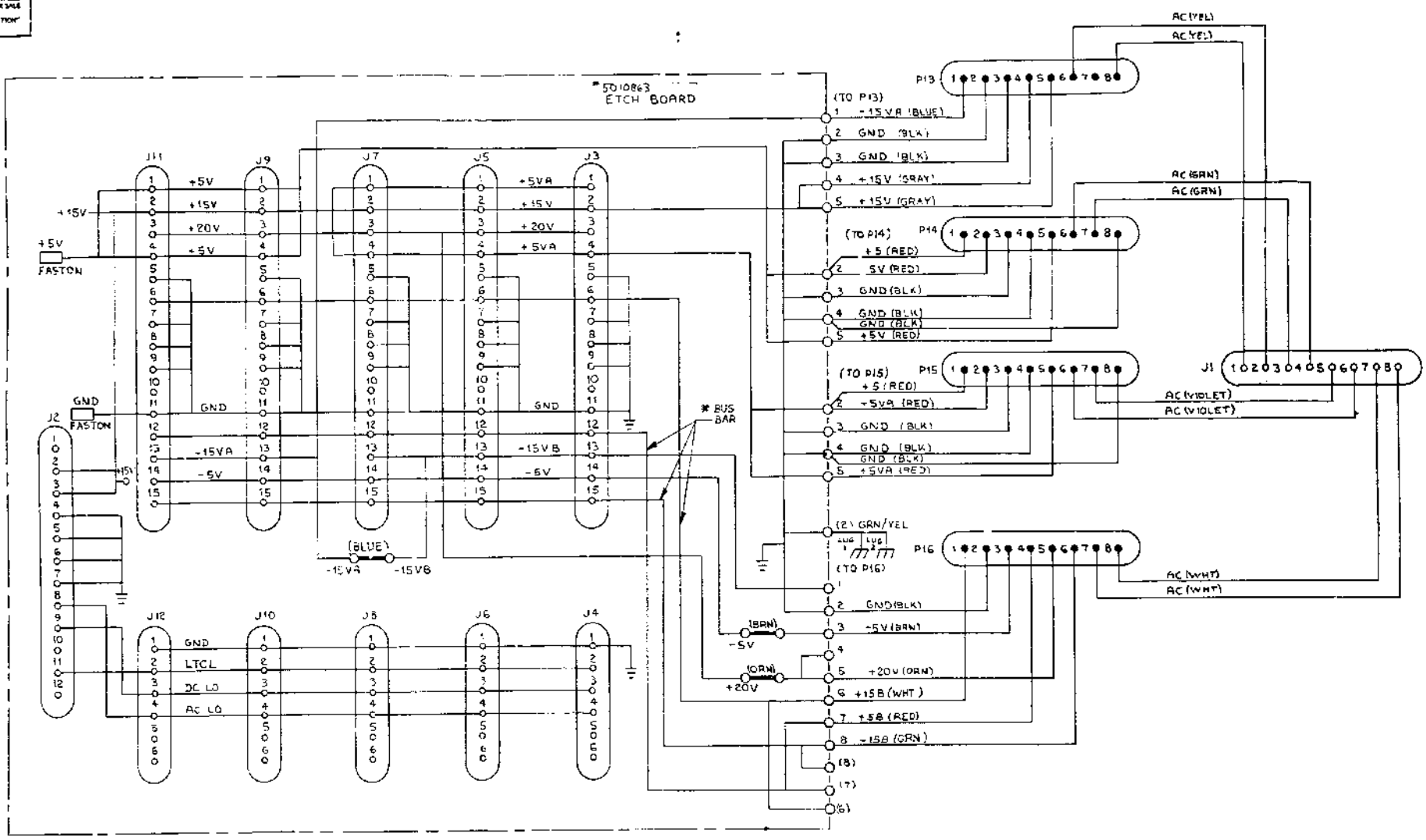


REVISIONS		
CHK	CHANGE NO	REV

TITLE	SIZE CODE	NUMBER	REV.
TRANSFORMER ASSY	D1AD	7011486-0-0	B
SCALE	SHEET 2 OF 2	DIST.	

760

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* BUS BAR USED IN THE YA VARIATION ONLY

REVISIONS		
CHK	CHANGE NO	REV

TITLE	PWR DIST BOARD	SIZE/CODE	D/CS	NUMBER	5410864-C-1	REV.	L
SCALE	NONE	SHEET	2	OF	3	DIST.	

462

8 7 6 5 4 3 1

1-0-6980169 S010 21

BUS BAR CONNECTIONS FOR YA VARIATION

LEVEL A	PDB P16-6 J11, J9, J7, J5, J3 ALL PIN#6	+15V.B
LEVEL B	PDB P16-7 J11, J9, J7, J5, J3 ALL PIN#12	+5V
LEVEL C	PDB P16-8 J11, J9, J7, J5, J3 ALL PIN#15	-15V.B

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WIRE TABLE							
ITEM NO	DESCRIPTION	FROM	TO	LENGTH	SIGNAL NAME		
NO	AWG	COLOR	CONNECTION	WITH	CONNECTION	WITH	
24	14	VEL	J1-1	8	P13-8	7	12.5"
24		VEL	J1-2		P13-6		12.5"
25		GRN	J1-3		P14-7		11"
25		GRN	J1-4		P14-6		11"
26		VIO	J1-5		P15-7		8.75"
26		VIO	J1-6		P15-6		8.75"
27		WHT	J1-7		P16-8		11.25"
27		WHT	J1-8	8	P16-7		11.25"
23		BLU	PDB P13-1	SOLDER	P13-1		5"
22		BLK	PDB P13-2		P13-2		
22		BLK	PDB P13-3		P13-3		
21		GRY	PDB P13-4		P13-4		
21		GRY	PDB P13-5		P13-5		
20		RED	PDB P14-2		P14-2		
22		BLK	PDB P14-3		P14-3		
22		BLK	PDB P14-4		P14-4		
20		RED	PDB P14-5		P14-5		
20		RED	PDB P15-2		P15-2		
22		BLK	PDB P15-3		P15-3		
22		BLK	PDB P15-4		P15-4		
20		RED	PDB P15-5		P15-5		
22		BLK	PDB P16-2		P16-2		
19		BRN	PDB P16-3		P16-3		
18		GRN	PDB P16-5		P16-5	7	5"
23		BLU	PDB P15A		PDB-15B	SOLDER	1.75"
18		GRN	PDB P16-5		PDB +20V		5"
19		BRN	PDB P16-3	SOLDER	PDB -5V		2"
33		GRN/VEL	LUG 1	35	PDB P16-2	SOLDER	11"
33		GRN/VEL	LUG 2	34	LUG 2		15"
20		RED	PDB P16-7	SOLDER	P16-4	7	5.5"
20		RED	PDB P15-1		P15-1		5"
20		RED	PDB P14-1		P14-1		5"
22		BLK	PDB P15-4		P15-8		5.5"
22		BLK	PDB P14-4		P14-8		
27		WHT	PDB P16-6		P16-1		
25	14	GRN	PDB P16-8	SOLDER	P16-6	7	5.5"

NOTES:

1. CS REV. K AND EARLIER PWR DISTRIBUTION BOARDS HAD THE GREEN AND WHITE WIRES REVERSED IN COLOR ONLY. THE POINT-TO-POINT CONNECTIONS REMAIN THE SAME.

YA VARIATION ONLY.

SEE NOTE 1

REVISIONS		
CHK	CHANGE NO	REV

TITLE	PWR DIST BOARD	SIZE/CODE	D/CS 5410864-0-1	NUMBER		REV.	L
SCALE	NONE	SHEET	3 OF 3	DIST.			

D/CS 5410864-0-1 L

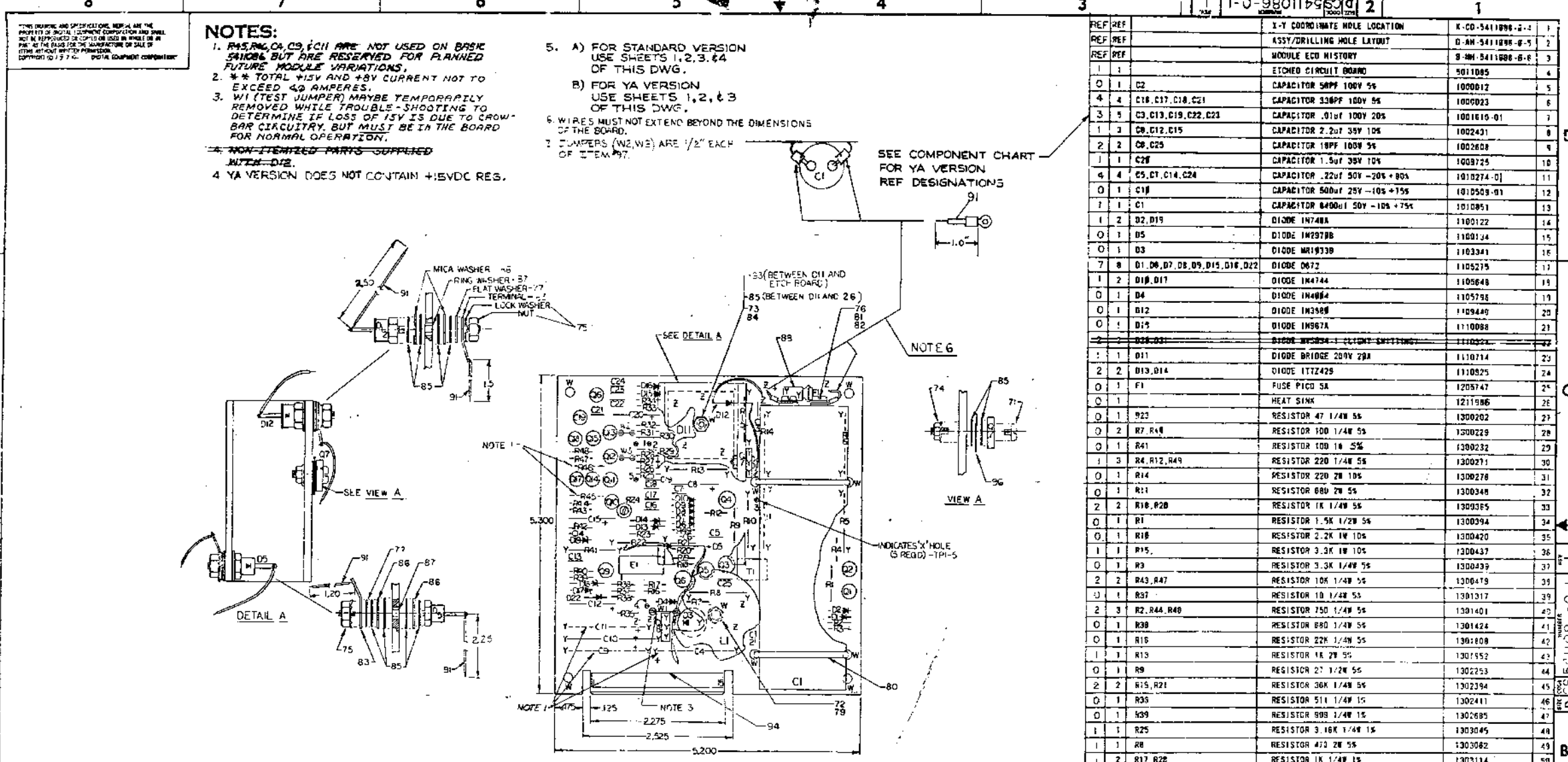
463

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- NOTES:**
- 1. R45, R46, C19, C21 ARE NOT USED ON BASIC VERSION, BUT ARE RESERVED FOR PLANNED FUTURE MODULE VARIATIONS.
 - 2. ** TOTAL +15V AND +5V CURRENT NOT TO EXCEED 4.0 AMPERES.
 - 3. W1 (TEST JUMPER) MAYBE TEMPORARILY REMOVED WHILE TROUBLE-SHOOTING TO DETERMINE IF LOSS OF 15V IS DUE TO CROW- BAR CIRCUITRY, BUT MUST BE IN THE BOARD FOR NORMAL OPERATION.
 - 4. NON-IEMTED PARTS SUPPLIED WITH-D12.
 - 4. YA VERSION DOES NOT CONTAIN +5VDC RES.

- 5. A) FOR STANDARD VERSION USE SHEETS 1,2,3,4 OF THIS DWG.
 - B) FOR YA VERSION USE SHEETS 1,2, & 3 OF THIS DWG.
6. WIRES MUST NOT EXTEND BEYOND THE DIMENSIONS OF THE BOARD.
7. JUMPERS (W2,W3) ARE 1/2" EACH OF ITEM #97.

SEE COMPONENT CHART FOR YA VERSION REF DESIGNATIONS



COMPONENT CHART -YA VERSION

QTY	REF. DESIGNATION	ITEM
3	C19, C22, C23	7
1	C8	8
1	D19	14
7	D6, D7, D5, D9, D15, D16, D22	17
1	D10	18
1	R49	30
2	R44, F48	40
1	R28	50
4	Q3, Q5, Q10, Q19	63
4	Q11, Q12, Q13, Q16	66

REF	REF	1-7 COORDINATE HOLE LOCATION	K-00-5411086-0-1		
REF	REF	ASSY/DRILLING HOLE LAYOUT	D-AN-5411086-0-5	2	
REF	REF	MODULE ECO HISTORY	B-AN-5411086-0-6	3	
1	1	ETCHED CIRCUIT BOARD	9011085	4	
0	1	C2	CAPACITOR 50PF 100V 5%	1000012	5
4	4	C18, C17, C18, C21	CAPACITOR 330PF 100V 5%	1000023	6
3	5	C3, C13, C19, C22, C23	CAPACITOR .01uf 100V 20%	1001619-01	7
1	2	C8, C12, C15	CAPACITOR 2.2uf 35V 10%	1002431	8
2	2	C8, C25	CAPACITOR 18PF 105V 5%	1002608	9
1	1	C20	CAPACITOR 1.5uf 35V 10%	1003725	10
4	4	C5, C1, C14, C24	CAPACITOR .22uf 50V -20% +80%	1010274-01	11
0	1	C18	CAPACITOR 500uf 25V -10% +15%	1010509-01	12
1	1	C1	CAPACITOR 6400uf 50V -10% +75%	1010851	13
1	2	D2, D19	DIODE 1N748A	1100122	14
0	1	D5	DIODE 1N2978B	1100124	15
0	1	D3	DIODE M1993B	1103341	16
7	8	D1, D6, D7, D8, D9, D15, D16, D22	DIODE 0672	1105275	17
1	2	D10, D17	DIODE 1N4744	1105648	18
0	1	D4	DIODE 1N4004	1105738	19
0	1	D12	DIODE 1N3588	1109440	20
0	1	D15	DIODE 1N967A	1110088	21
D18, D21					
1	1	D11	DIODE BRIDGE 200V 20A	1110714	23
2	2	D13, D14	DIODE 1T72425	1110825	24
0	1	F1	FUSE P1C0 5A	1205747	25
0	1		HEAT SINK	1211986	26
0	1	R23	RESISTOR 47 1/4W 5%	1300202	27
0	2	R7, R48	RESISTOR 100 1/4W 5%	1300229	28
0	1	R41	RESISTOR 100 1/8 5%	1300232	29
1	3	R4, R12, R49	RESISTOR 220 1/4W 5%	1300271	30
0	1	R14	RESISTOR 220 2W 10%	1300278	31
0	1	R11	RESISTOR 680 2W 5%	1300348	32
2	2	R10, R20	RESISTOR 1K 1/4W 5%	1300365	33
0	1	R1	RESISTOR 1.5K 1/2W 5%	1300394	34
0	1	R16	RESISTOR 2.2K 1W 10%	1300420	35
1	1	R15	RESISTOR 3.3K 1W 10%	1300437	36
0	1	R9	RESISTOR 3.3K 1/4W 5%	1300439	37
2	2	R43, R47	RESISTOR 10K 1/4W 5%	1300479	38
0	1	R37	RESISTOR 10 1/4W 5%	1301317	39
2	3	R2, R44, R48	RESISTOR 750 1/4W 5%	1301401	40
0	1	R30	RESISTOR 880 1/4W 5%	1301424	41
0	1	R19	RESISTOR 22K 1/4W 5%	1301608	42
1	1	R13	RESISTOR 1K 2W 5%	1301552	43
0	1	R9	RESISTOR 27 1/2W 5%	1302253	44
2	2	R15, R21	RESISTOR 30K 1/4W 5%	1302394	45
0	1	R36	RESISTOR 511 1/4W 1%	1302411	46
0	1	R39	RESISTOR 998 1/4W 1%	1302685	47
1	1	R25	RESISTOR 3.16K 1/4W 1%	1303045	48
1	1	R8	RESISTOR 470 2W 5%	1303082	49
1	2	R17, R22	RESISTOR 1K 1/4W 1%	1303114	50
1	1	R31	RESISTOR 2.81K 1/4W 1%	1303303	51
0	1	R42	RESISTOR 10K 1/4W 1%	1303312	52
2	2	R33, R34	RESISTOR 5.11K 1/4W 1%	1304854	53
1	1	R38	RESISTOR 9.09K 1/4W 1%	1304855	54

digital
PWR. LINE MONITOR/15V REG.K-00-5411086-0-1

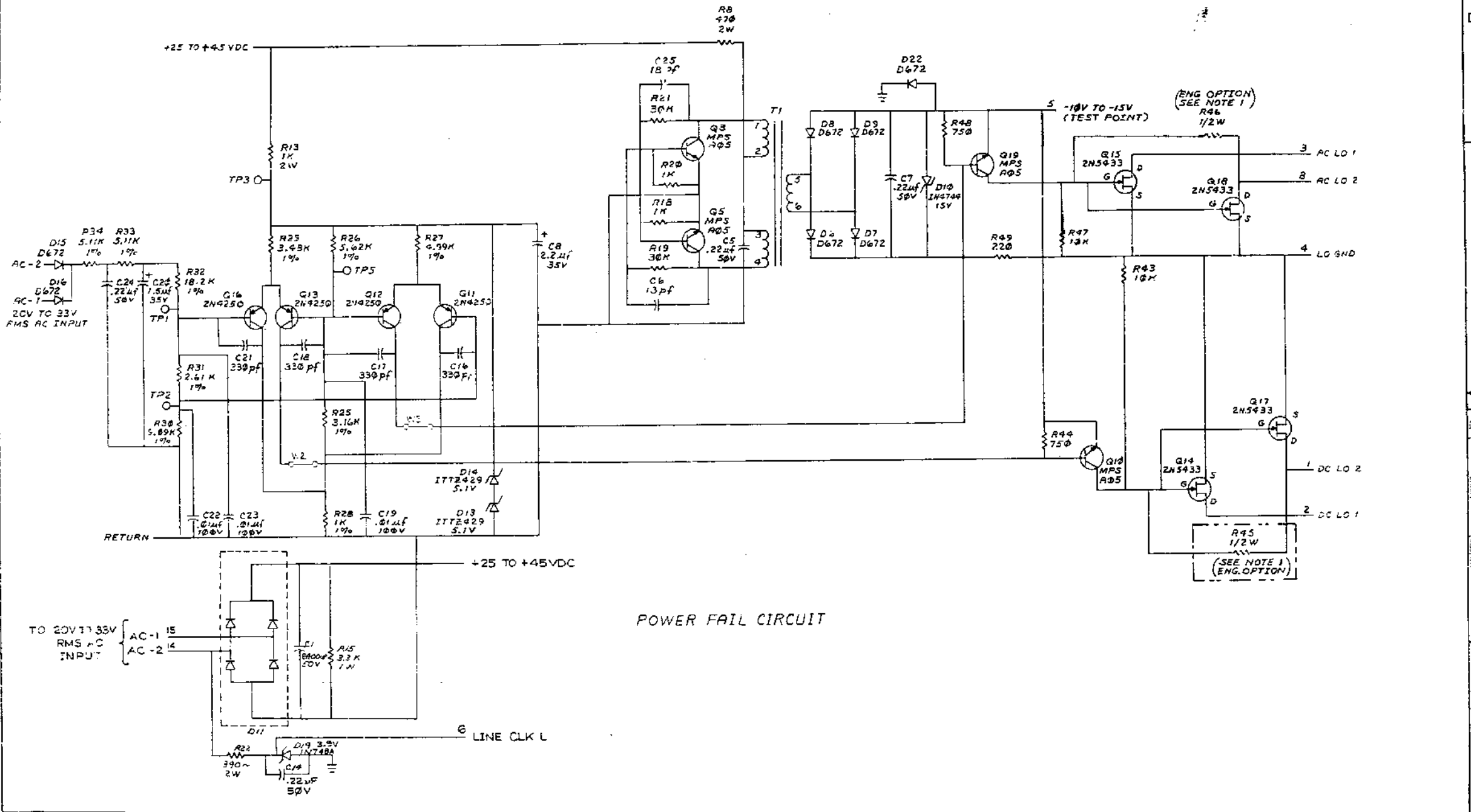
DATE 10-9-72

SCALE 1/8"

Semiconductor Conversion Chart

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

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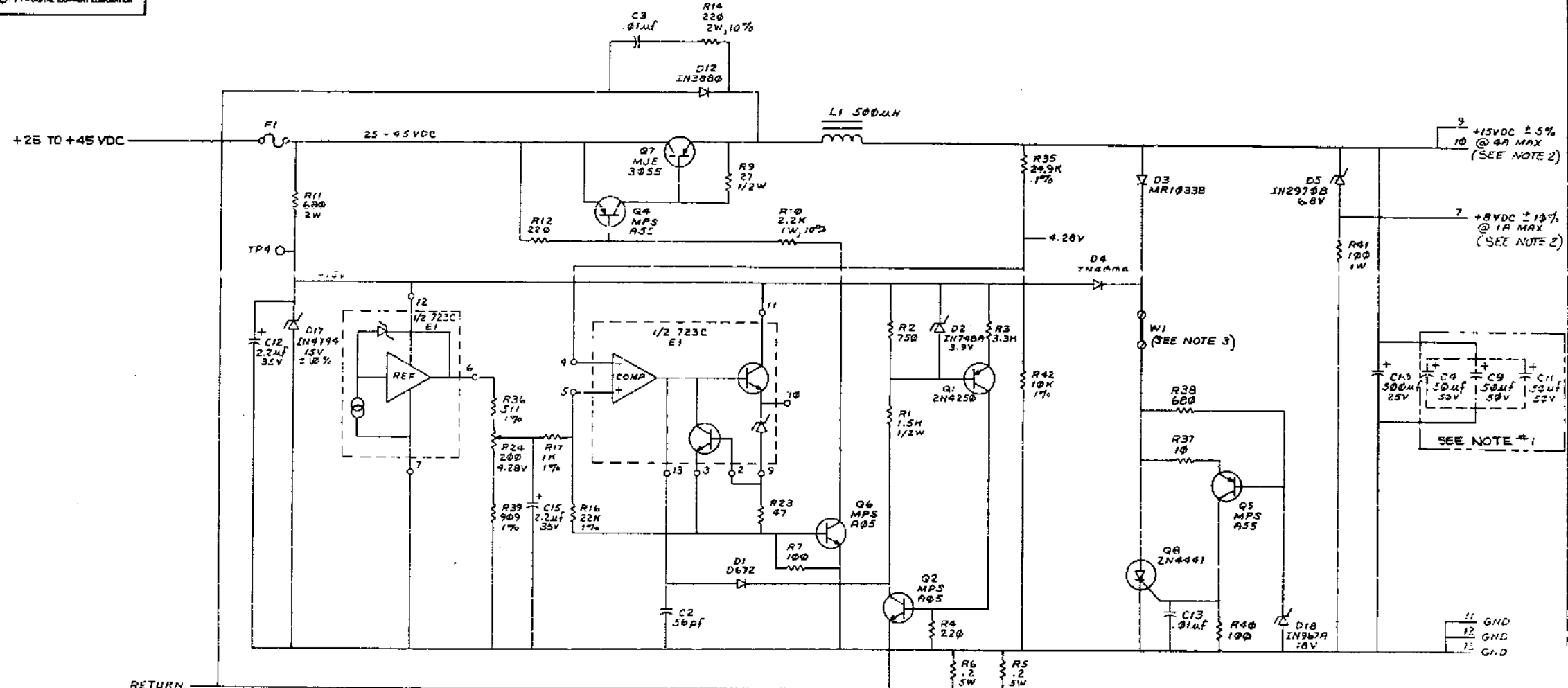


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	PWR. LINE MONITOR/15V REG.	SIZE/CODING	NUMBER	REV.
SCALE	SHEET 3 OF 4	DIST.	DCS 5411086-0-1	L

466

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15V REGULATOR
(SEE NOTE #4)

REV.	CHANGE NO.	DESCRIPTION

TITLE	PWR. LINE MONITOR/15V REC.	SIZE CODE	D.C.S.	NUMBER	5411086-0-	REV.	L
SCALE		SHEET	2	OF	4	DIST.	

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FIELD MAINTENANCE PRINT SET

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TABLE OF CONTENTS

B-TC-H7441-0-1	H7441 UNIT ASSY (FIELD MAINT. PR. SET)
D-UA-H7441-0-0	H7441 UNIT ASSY
D-UA-5412441-0-0	REGULATOR +5V 32A
B-PL-5412441-0-0	REGULATOR +5V 32A (PL)
D-CS-5412441-0-1	REGULATOR +5V 32A (CS)

UNIT VARIATIONS COVERED BY THIS PRINT SET
H7441-0

H7441 Field Maintenance Print Set

Digital Equipment Corporation

PRINT SET ORDER NO.
MP00271

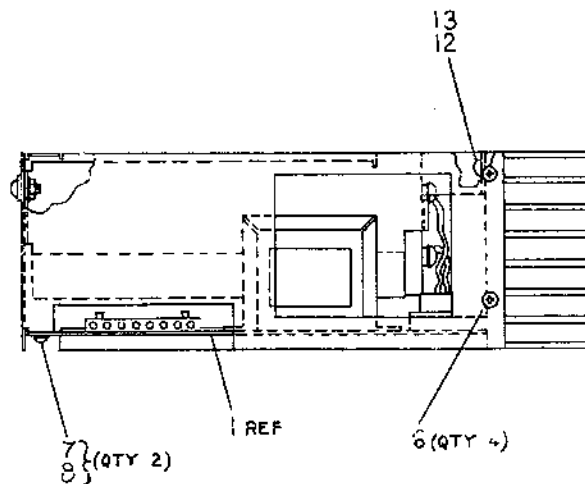
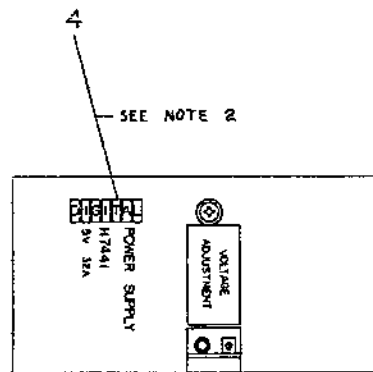
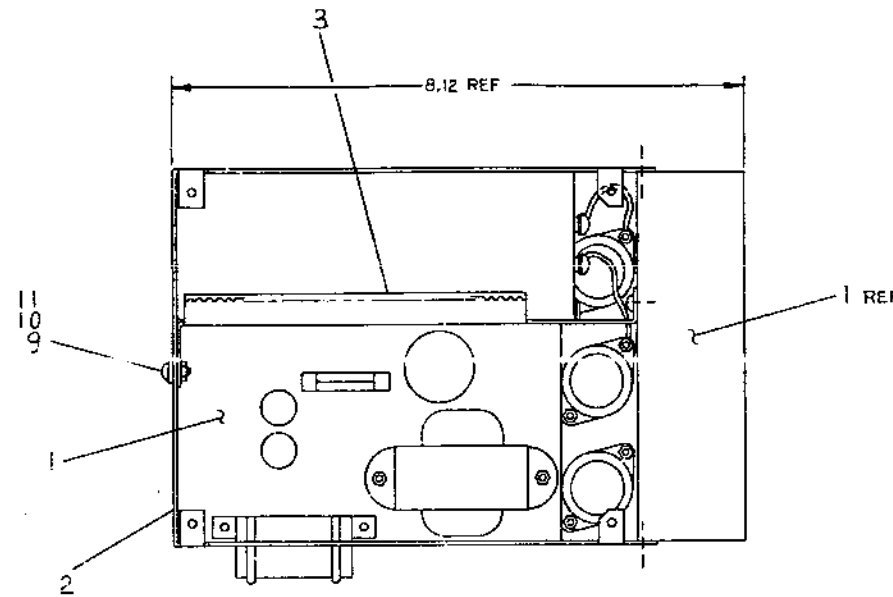
REVISIONS	REV.	USED ON OPTION/MODEL	DRN.	DATE	TITLE: H7441 UNIT ASSY digital																	
	CHG. NO.		7013323	D. Healy						NOV 76												
	DATE		1134A	CHK'D	DATE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>SIZE</td> <td>CODE</td> <td>NUMBER</td> <td>REV.</td> </tr> <tr> <td>B</td> <td>TC</td> <td>H7441-0-1</td> <td></td> </tr> <tr> <td>DIST.</td> <td></td> <td></td> <td></td> </tr> </table>					SIZE	CODE	NUMBER	REV.	B	TC	H7441-0-1		DIST.			
	SIZE		CODE	NUMBER	REV.																	
B	TC	H7441-0-1																				
DIST.																						
			D. Healy	NOV 76																		
			PROJ. ENG.	DATE																		
			FIELD SERV.	DATE																		
			SHEET I OF 1																			
				12-20-76																		

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NOTES:

- ATTACH (RED) WIRE FROM ITEM (4) TO POSITIVE (+) TERM OF CAPACITOR ITEM (5). ATTACH REMAINING (BLACK) WIRE TO THE TERMINAL OF THE CAP ITEM (3).
- PEEL AND ATTACH ITEM 4 TO ITEM 2 AS SHOWN.



QTY	DESCRIPTION	CWG PART NO.	ITEM NO.
1	WASHER, LOCK INT. TOOTH #6	9006633	13
1	SCR, PHL PAN HD. #6-32X.38	9006022-01	12
1	NUT, KEPS #6-32X.31	9006560	11
1	WASHER, FLAT #6	9006659	10
1	SCR, PHL PAN HD. #6-32X.31	9006021-01	9
2	WASHER FLAT #4	9008172	8
2	SCR, PHL PAN HD #4-40X.25	9008901-01	7
4	SCR, SELF TAPPING #4-40X.51	9009142-2	6
1	CAPACITOR, 220UF, 50VDC	1007703-00	5
1	DECAL	B-1A-7416945-10	4
1	BRACKET, CAPACITOR	D-1A-7417543-0-0	3
1	BRACKET, REGULATOR	D-1A-5309756-09	2
1	REGULATOR, +5V, 32 A	D-1A-5412441-0-0	1

QUANTITY & VARIATION		CLASS OF ACCURACY		SURFACE QUALITY		FINISH		MATERIAL		FINISH	
1		1		1		1		1		1	
THIRD ANGLE PROJECTION		DRAWN BY: [Signature]		CHECKED BY: [Signature]		ENGR. [Signature]		PROL. ENGR. [Signature]		PRCD. [Signature]	
REMOVE BURRS AND BREAK SHARP CORNERS		DO NOT SCALE CWG		NEXT HIGHER ASSY.		MATERIAL SEE PARTS LIST		SCALE NONE		SHEET 1 OF 1	
DESCRIPTION		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		ANGLES		SURFACE QUALITY		FINISH		MATERIAL	
H7441 UNIT ASSY		FIRST USED ON 1130 A		CLASS OF ACCURACY		SURFACE QUALITY		FINISH		MATERIAL	
DIGITAL		1130 A		1		1		1		1	
TITLE		H7441		1		1		1		1	
UNIT ASSY		1130 A		1		1		1		1	
SIZE		D		1		1		1		1	
NUMBER		H7441-0-0		1		1		1		1	
REV.		1		1		1		1		1	

REV.	DESCRIPTION	DATE
1	INITIAL ISSUE	11/18/76
2	REVISION	11/18/76
3	REVISION	11/18/76
4	REVISION	11/18/76
5	REVISION	11/18/76
6	REVISION	11/18/76
7	REVISION	11/18/76
8	REVISION	11/18/76
9	REVISION	11/18/76
10	REVISION	11/18/76
11	REVISION	11/18/76
12	REVISION	11/18/76
13	REVISION	11/18/76
14	REVISION	11/18/76
15	REVISION	11/18/76
16	REVISION	11/18/76
17	REVISION	11/18/76
18	REVISION	11/18/76
19	REVISION	11/18/76
20	REVISION	11/18/76

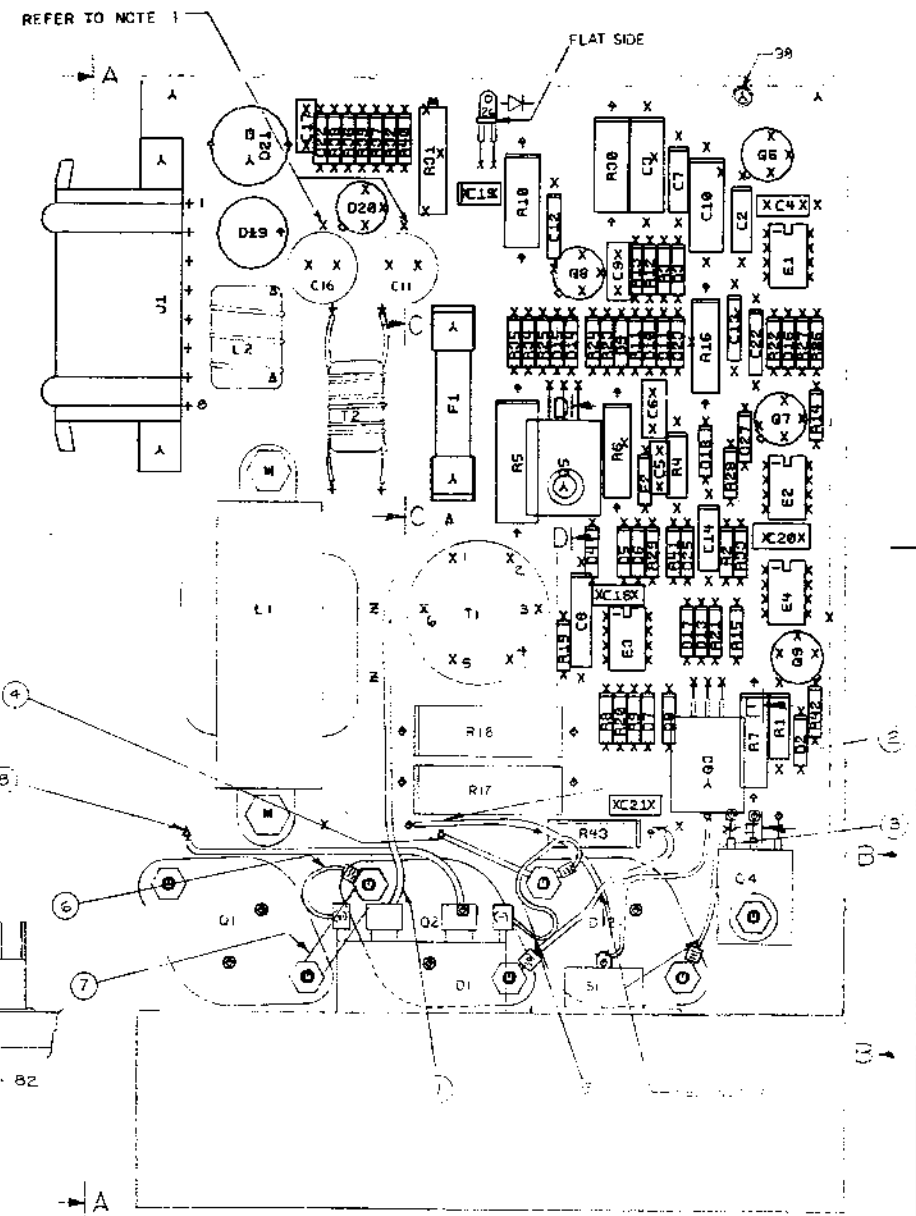
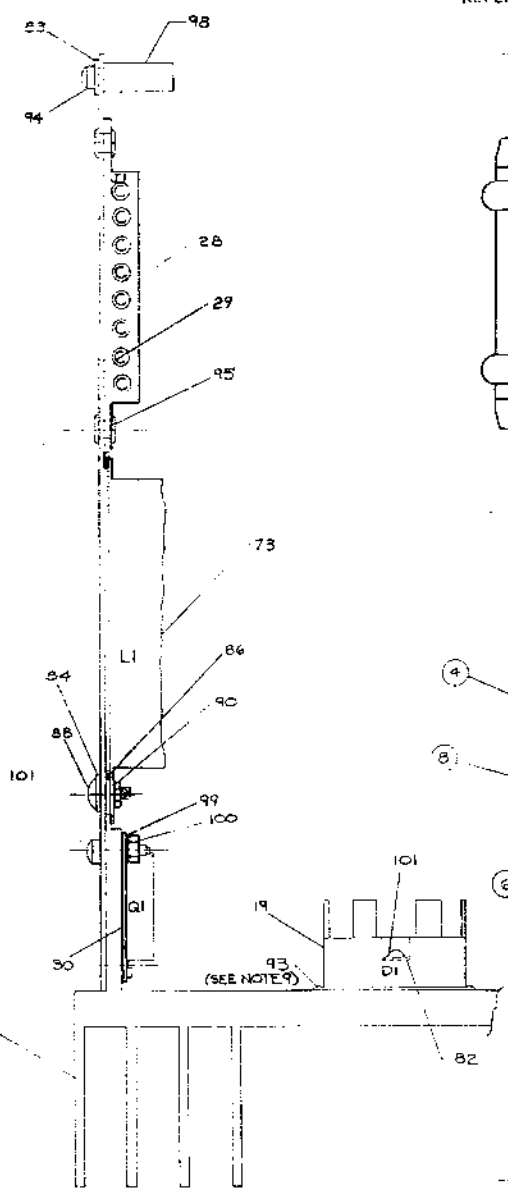
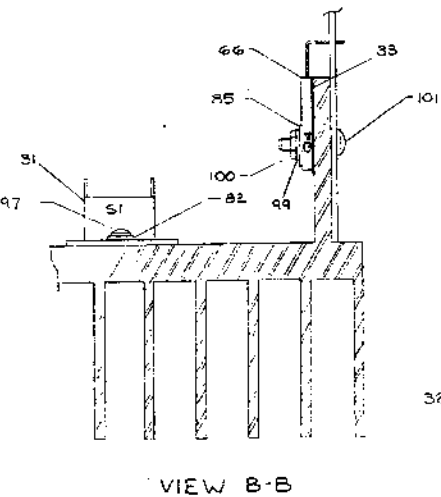
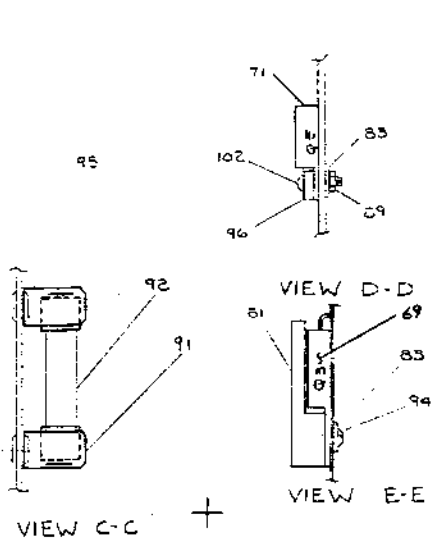
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COMPONENT SIDE VIEW

WIRE & BUS STRAP RUNS

NO	FROM	TO	WIRE OR BUS LENGTH
①	FEEDTHRU AT F1	TERMINAL D1	#14 AWG 4" SEE NOTE 3
②	S1	FEEDTHRU SHOWN	#18 AWG 3"
③	S1	FEEDTHRU SHOWN	#18 AWG 2.5"
④	D12	FEEDTHRU SHOWN	DEC. PT #1214074-09 SEE NOTE 4
⑤	TERMINAL D1	D12	#14 AWG 5" SEE NOTE 5
⑥	TERMINAL D1	Q2	#14 AWG 2" SEE NOTE 6
⑦	Q2	Q1	DEC. PT #1214074-09 SEE NOTE 7
⑧	TERMINAL D1	FEEDTHRU SHOWN	#14 AWG 2.75" SEE NOTE 2

NOTES: 1. MOUNT WIRES PER I.A. DRAWING NO. IA 7013274. RED WIRE TO CASE Q2 AND POSITIVE TERMINAL Q1 & BLACK WIRE TO CASE D12 AND NEGATIVE TERMINAL C1.
 2. WIRE RUN ② IS SOLDERED AT D1.
 3. WIRE RUN ③ IS SOLDERED AT D1.
 4. STRAP ④ (ITEM #26) IS SOLDERED AT FEEDTHROUGH SHOWN AND MOUNTED UNDER RING LUG OF D12.
 5. WIRE RUN ⑤ IS SOLDERED AT D1 AND CRIMPED TO RING LUG ITEM #87 OF D12.
 6. WIRE RUN ⑥ IS SOLDERED AT D1 AND CRIMPED TO RING LUG ITEM #87 OF Q2.
 7. BUS STRAP ⑦ (ITEM #25) IS MOUNTED UNDER RING LUG OF Q2 AND ON CASE OF Q1.
 8. TORQUE HARDWARE ON Q1, Q2, Q4 AND D12 TO 5 INCH-LBS. FROM NUT SIDE ONLY. TORQUE OTHER HARDWARE TO DEC. VALUES.
 9. APPLY THERMAL COMPOUND TO D1 (ITEM #19) ONLY.

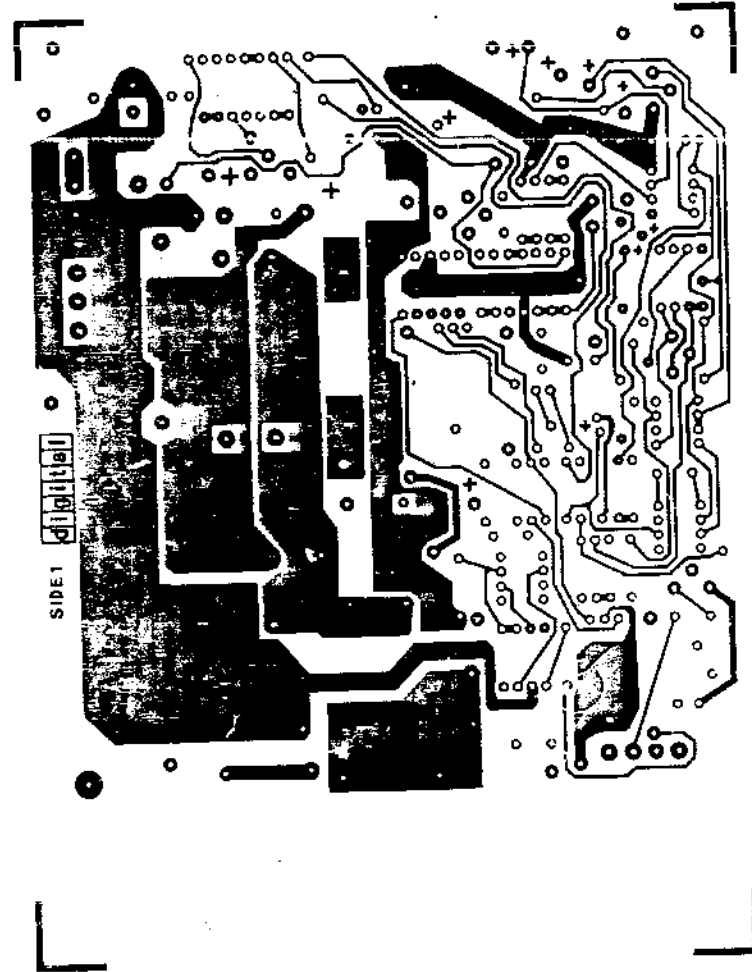


NOTES:
 1. INDICATED DRILL POINTS AT C11 AND C16 SHOULD NOT BE USED FOR DRILL ALIGNMENT DURING MANUFACTURE. THESE OVERSIZED PADS WILL NOT CENTER WITH DRILL BORING.

CHANGE NO.	REV.	DATE	BY	CHK'D.	DATE
1	1	10/27/71	...	...	...

SIGNATURES		DATE	digital
DRN.	...	2-22-71	
CHK'D.	...	...
ENG.	...	...
PROJ. ENG.	...	...
PRDD.	...	...
SCALE	2/1		TITLE +5V, 32 AMP REGULATOR
SHT. 1	OF 2		SIZE CODE NUMBER
NEXT HIGHERassy. B-00-54 2441-0			5412441-2-01

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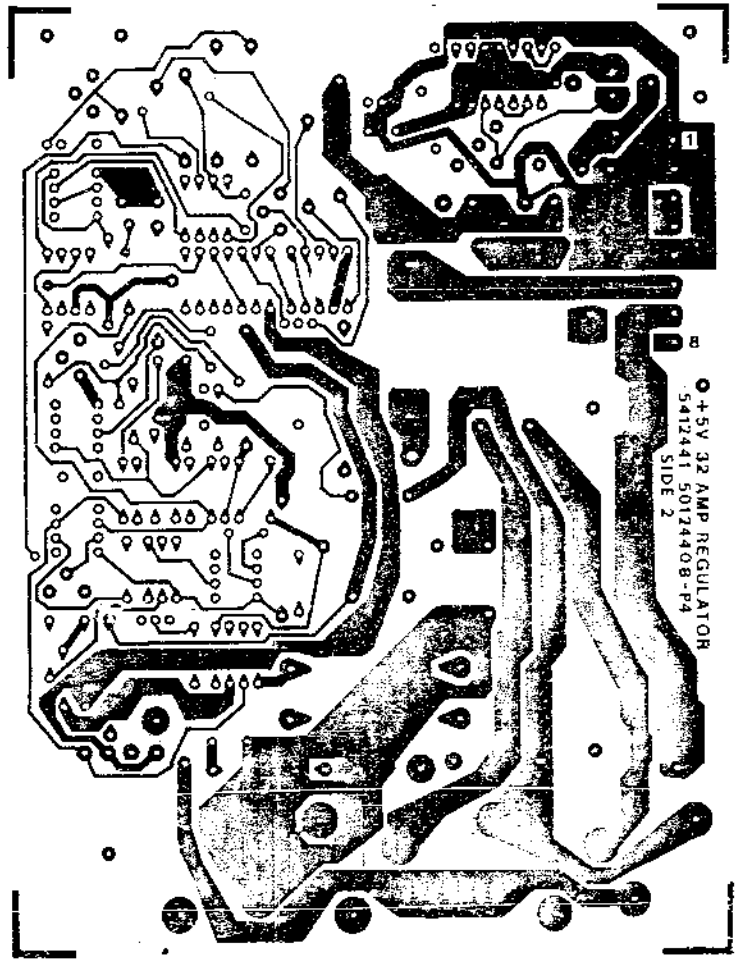
SIDE 1 digital

REVISIONS		
CHK	CHANGE NO	REV

5V.32AMP REGULATOR DUA 5412441-2-2

5012441-02 REV. 1

NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
2. DIMENSIONS IN PARENTHESES ARE FOR INFORMATION ONLY.
3. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
4. DIMENSIONS ARE TO THE CENTER OF THE HOLE UNLESS OTHERWISE SPECIFIED.
5. DIMENSIONS ARE TO THE CENTER OF THE PATTERN UNLESS OTHERWISE SPECIFIED.
6. DIMENSIONS ARE TO THE CENTER OF THE PATTERN UNLESS OTHERWISE SPECIFIED.
7. DIMENSIONS ARE TO THE CENTER OF THE PATTERN UNLESS OTHERWISE SPECIFIED.
8. DIMENSIONS ARE TO THE CENTER OF THE PATTERN UNLESS OTHERWISE SPECIFIED.



+5V 32 AMP REGULATOR
5012441 50124408-P4
SIDE 2

REVISIONS		
NO.	CHANGE NO.	REV.

+5V 32AMP REGULATOR 5012441-02
3

472

LINE	ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
1	1	D-MD-5012440-0-0	5012440-00	5412441	1	
2	2		1000009-00	33.0 MMF 100V 5%200PPM DM15S (10-00	1	C20
3	3		1000021-00	220.0 MMF 100V 5%200PPM DM15S (10-00	1	C9
4	4		1001610-01	.01 MFD 100V OR 50V Z5U DISC/800PF MIN	5	C4,C5,C17,C18,C21
5	5		1002627-00	2.2MFD 20V 10% 150D S.TA (10	2	C2,C7
6	6		1004813-00	10 MFD 20V 10% 150D S.TA (10-00	1	C8
7	7		1010279-00	.47 MFD 25V 20% 2C023 CER.	1	C19
8	8		1010646-00	.015 MFD 50V 2% M.POLYCARB	2	C3,C10
9	9		1010702-00	24,000 MFD 50V 6% 36D AL EL	1	C1
10	10		1012607-00	560 MFD 20V HZ 672D AL EL	1	C11
11	11		1012607-01	1200 MFD 6.3V HZ 672D AL EL	1	C16
12	12		1009944-00	.48 MFD 35V 10% 150D S.TA	1	C12
13	13		1001776-00	1 MFD 35V 10% 150D S.TA (10-00	3	C13,C14,C22
14	14		1000024-00	470.0 MMF 100V 5%200PPM DM15S (10-00	1	C6
15	15		1105508-00	1N 823 VZ= 6.2 5% .40W Y	1	D18
16	16		1102808-00	1N 752A VZ= 5.6 5% .40W P	1	D22
17	17		1103341-00	MR1033B PIV=300 I= 3A Z44 SM	1	D19
18	18		1105275-00	D 672 TR= 15NS FIV= 60V SF	15	D3-D6,D9-D11,D13-D17,D23,D25,
					CONT	D27
19	19		1110051-00	DM 16 ASSY@200V & 25A #990-3	1	D1
20	20		1110324-00	LED 1MCD@10MA #MV5054-1#HP4882	1	D26
21	21		1110836-00	1N 759A VZ= 12.0 5% .40W P	1	D2
22	22		1110968-00	2N 5062 SCR@100V I=.8A T092	1	D20
23	23		1112595-01	A114B PIV=200 I= 1A	2	D7,D8
24	24		1113496-00	UES602R PIV=100 I=30A T03	1	D12
25	25		1214074-04	STRAP,THERMAL 2 HOLE	1	
26	26		1214074-05	STRAP,THERMAL LUG .815	1	
27	27		1209070-00	FUSE, SUB-MINI, 5.000A, 125V, RADIAL LEAD	1	F2
28	28		1209340-00	MATE-N-LOK 8PIN,HOUSING,SKT	1	J1
29	29		1209456-01	MATE-N-LOK SKT PCB TAB LOOSE	8	

REVISION HISTORY			VARIATIONS FOR THIS ASSY.		FIRST USED ON:		DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			
CHK	ECO NO	REV								
SC	00008	J		00	MADE BY: D.SIREEN	DATE: 10-MAR-78	TITLE PARTS LIST			
					CHECKED: F.GAROFALO	DATE: 10-MAR-78	+5V 32 AMP REGULATOR			
					DSN.ENG.: R.DAY	DATE: 10-MAR-78	SIZE	CODE	DOCUMENT NUMBER	REV
					PROD.: R.B.KING	DATE: 10-MAR-78	K	PL	5412441-0-0	J
					RESP.ENG.: R.DAY	DATE: 10-MAR-78	ASSY.NO.: D-UA-5412441-0-0		EDIT# 6	

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LINE	ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
30	30		1213071-02	INSULATOR,RUBBER SILICONE SM	3	
31	31		1212787-00	THERMOSTAT,00212,C0182,NC	1	S1
32	32		1210737-02	HEAT SINK,REGULATOR	1	
33	33		1213071-06	INSULATOR,RUBBER SILICONE	1	
34	34		1312626-00	2.49 K 1/4W 1% RN55D-F 100PPM	(13-00)	1 R32
35	35		1300229-00	100 1/4W 5% CC	(13-00)	2 R37,R38
36	36		1300250-00	150 1/4W 5% CC	(13-00)	2 R24,R34
37	37		1305322-00	7.5 K 1/4W 1% RN55D-F 100PPM	(13-00)	1 R19
38	38		1300295-00	330 1/4W 5% CC	(13-00)	1 R23
39	39		1301424-00	680 1/4W 5% CC	(13-00)	1 R28
40	40		1301327-00	68 K 1/4W 5% CC	(13-00)	1 R29
41	41		1300439-00	3.3 K 1/4W 5% CC	(13-00)	1 R35
42	42		1310219-00	.25 3W 1% WW	(13-00)	1 R5
43	43		1300248-00	130 1W 5% CC	(13-00)	1 R6
44	44		1302644-00	226 1/4W 1% RN55D-F 100PPM	(13-00)	2 R8,R9
45	45		1300277-00	220 1W 10% CC	(13-00)	1 R16
46	46		1300309-00	390 1/4W 5% CC	(13-00)	1 R40
47	47		1312922-00	536 1/4W 1% RN55D-F 100PPM	(13-00)	1 R33
48	48		1300365-00	1 K 1/4W 5% CC	(13-00)	3 R13,R21,R27
49	49		1300394-00	1.5 K 1/2W 5% CC	(13-00)	1 R1
50	50		1300447-00	4.7 K 1/4W 5% CC	(13-00)	2 R12,R41
51	51		1300479-00	10 K 1/4W 5% CC	(13-00)	4 R14,R15,R22,R42
52	52		1301695-00	47 1/2W 5% CC	(13-00)	1 R4
53	53		1301972-00	270 1/4W 5% CC	(13-00)	1 R11
54	54		1312747-00	56.2 K 1/4W 1% RN55D-F 100PPM	(13-00)	1 R20
55	55		1302751-00	30 1/4W 5% CC	(13-00)	2 R36,R39
56	56		1302871-00	1.21 K 1/4W 1% RN55D-F 100PPM	(13-00)	1 R2
57	57		1303179-00	8.2 K 1/4W 5% CC	(13-00)	2 R25,R26
58	58		1305337-00	3.65 K 1/4W 1% RN55D-F 100PPM	(13-00)	1 R3
59	59		1309143-07	1 K 3/4W10% POT 100PPM		1 R31
60	60		1310868-00	.39 2W 5% WW	(13-00)	1 R10
61	61		1313712-00	.01 5W 3% WW	(13-00)	2 R17,R18
62	62		1312682-00	3 3W 5%	(13-00)	1 R7
63	63		1300256-00	150 1W 10% CC	(13-00)	1 R30
64	64		1300171-00	10 1W 5% CC	(13-00)	1 R43
65	65		1510196-00	2N 5302/HSNPN 200WC SI 60 40 M		2 Q1,Q2
66	66		1510555-00	MJE3055 NPN 90WC SI 60 20 Y		1 Q4
67	67		1510705-00	XA 05 NPN 500MW SI 60 50 P		2 Q6,Q7
68	68		1510706-00	XA 55 PNP 500MW SI 60 50 P		1 Q8
69	69		1510708-00	D 45HB PNP 50WT SI 60 60 Y		1 Q3
70	70		1510928-00	C32AX135 SCR@100V I=25A		1 D21
71	71		1512790-00	D 44C11 NPN 30W SI 80 40		1 Q5
72	72		1511686-00	DECS433 FET N 350MW 10 25 1A 20U		1 Q9
73	73		1612584-00	50 Ua 30A		1 L1
74	74		1612592-00	PULSE XFMR,RATIO 4:1		1 T1
75	75		1613713-00	CHOKER, 5 UH 32A		1 L2
76	76		1613714-00	2 UH 20A		1 T2
77	77		1910282-00	301AN OF AMP		2 E3,E4

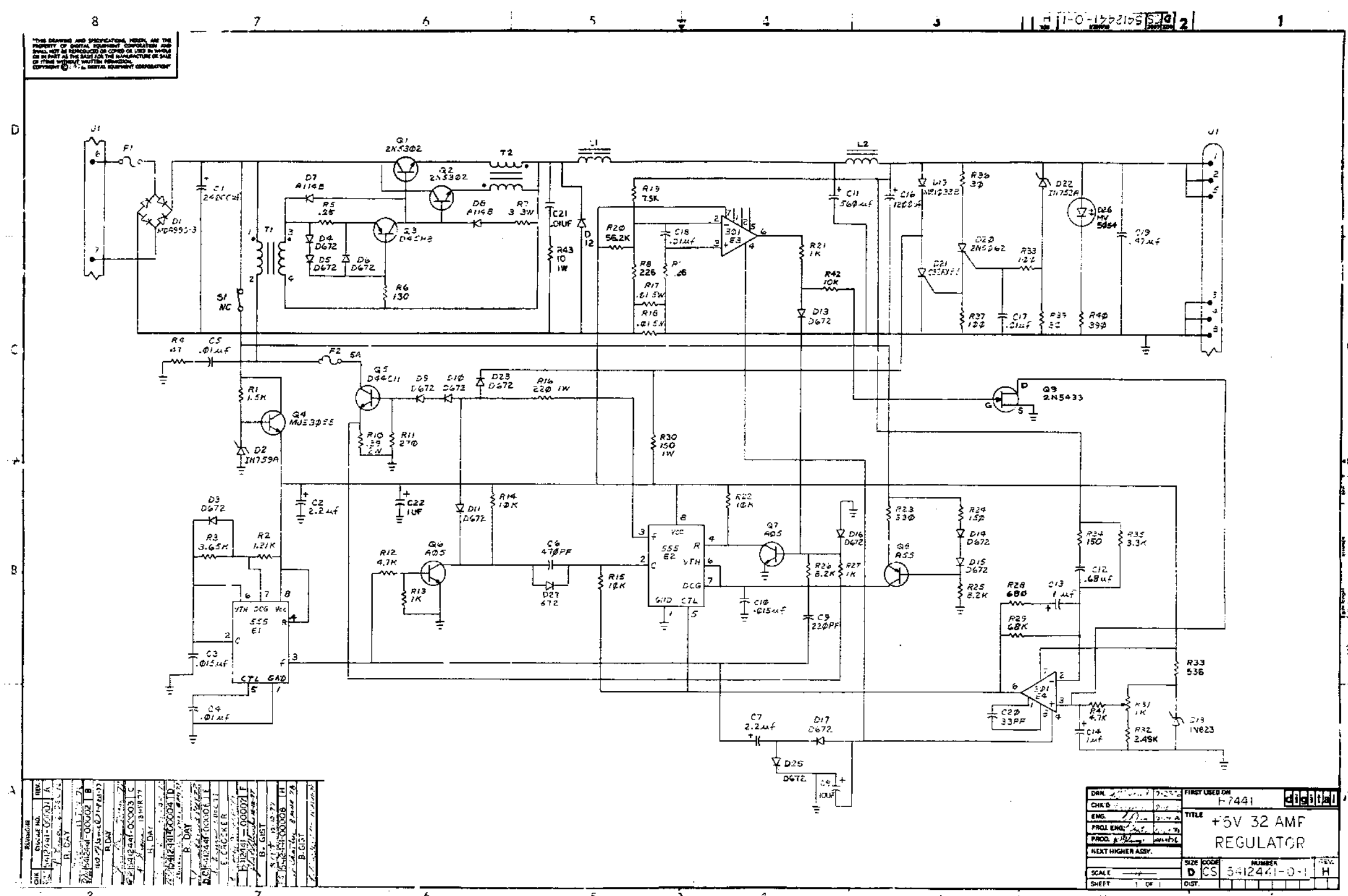
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! MAYNARD, MASSACHUSETTS !	! +5V 32 AMP REGULATOR		! K ! PL !	! 5412441-0-0	! J !

LINE	ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
78	78		1911944-00	555CN TIMER,FUNCT.BLOCK	2	E1,E2
79	79		7013274-00	JUMPER CAP TRAWS	1	
80	80		7013274-01	JUMPER CAP TRAWS	1	
81	81		7414765-00	HEATSINK	1	
82	82		9006633-00	WASHER,LOCK,INT,.2800D X .146ID X .018 THK	3	
83	83		9008172-00	WASHER, FLAT,SS .250 OD X .125 ID X .022 T	3	
84	84		9006660-00	WASHER, FLAT, .375 O.D. X .187 I.D. X .036	2	
85	85		9006653-00	WASHER, FLAT, .375 O.D. X .156 I.D. X .036	1	
86	86		9008082-00	WASHER, FLAT, FIBER OD. 1/2	2	
87	87		9007927-00	TERM RING 1POS INSULATED,16-14AWG,ROLL	2	
88	88		9006037-03	SCREW,TRUS,PHIL, 8-32X 3/8 SS/PAS	2	
89	89		9006557-00	NUT,KEP , 4-40X 1/4 AF CS	1	
90	90		9006563-00	NUT,KEP , 8-32 X11/32AF CS	2	
91	91		9007203-00	CLIP, FUSE, WITH STOP, SCREW MOUNTED	2	
92	92		9007226-00	FUSE, REG BLOW, 15.000A, 32V, GLASS	1	F1
93	93		9008268-00	COMPOUND, THERMAL JOINT	A/R	
94	94		9006012-01	SCREW,PAN ,PHIL, 4-40X 7/16 SS/PAS	2	
95	95		9009000-00	EYELET, ROLLED FLANGE, .121 OD X .156 LG	4	
96	96		9009769-00	WASHER, RECTANGULAR .405X.225X.060	1	
97	97		9006021-01	SCREW,PAN ,PHIL, 6-32X 5/16 SS/PAS	2	
98	98		9007660-00	SPACER, FIBER, RND, 4-40, .250 X .500 LG	1	
99	99		9007801-00	WASHER, LOCK, S.S. 3/16	7	
100	100		9008957-00	NUT,HEX , 6-32X 1/4 AF X 3/32 THK SS	7	
101	101		9007793-01	SCREW,PAN ,PHIL, 6-32X 9/16 SS/PAS	8	
102	102		9006010-01	SCREW,PAN ,PHIL, 4-40X 5/16 SS/PAS	1	
103	103		9107360-99	WIRE,STRND,18AWG,IPVC UL1429 (91-00 A/R		
104	104		9107370-00	WIRE,STRND,14AWG,IPVC UL1534 (91-00 A/R		

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE PARTS LIST	SIZE/CODE PL	DOCUMENT NUMBER 5412441-0-0	REV J
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475

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

DWG. NO.	7-2575	FIRST USED ON	F7441
CHK. D.		TITLE	+5V 32 AMF REGULATOR
ENG.		SIZE	D
PROJ. ENGR.		CODE	CS
PROD. ENGR.		NUMBER	3412441-0-1
NEXT HIGHER ASSY.		REV.	H
SCALE	1 OF 1	DIST.	

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CUSTOMER PRINT SET INDEX

THIS IS PRINT SET

DRAWING DIRECTORY
CIRCUIT SCHEMATIC
UNIT ASS'Y

SEQUENCE
B-DD-H745-0
D-CS-H745-0-1
E-UA-H745-0-0

MFG. SET
TEST PROCEDURE
MFG. SPEC.
PACKAGING INSTRUCTION

SEQUENCE
A-SP-11/45-TA-2
A-SP-H745-0-8
A-PI-3700074-0-0

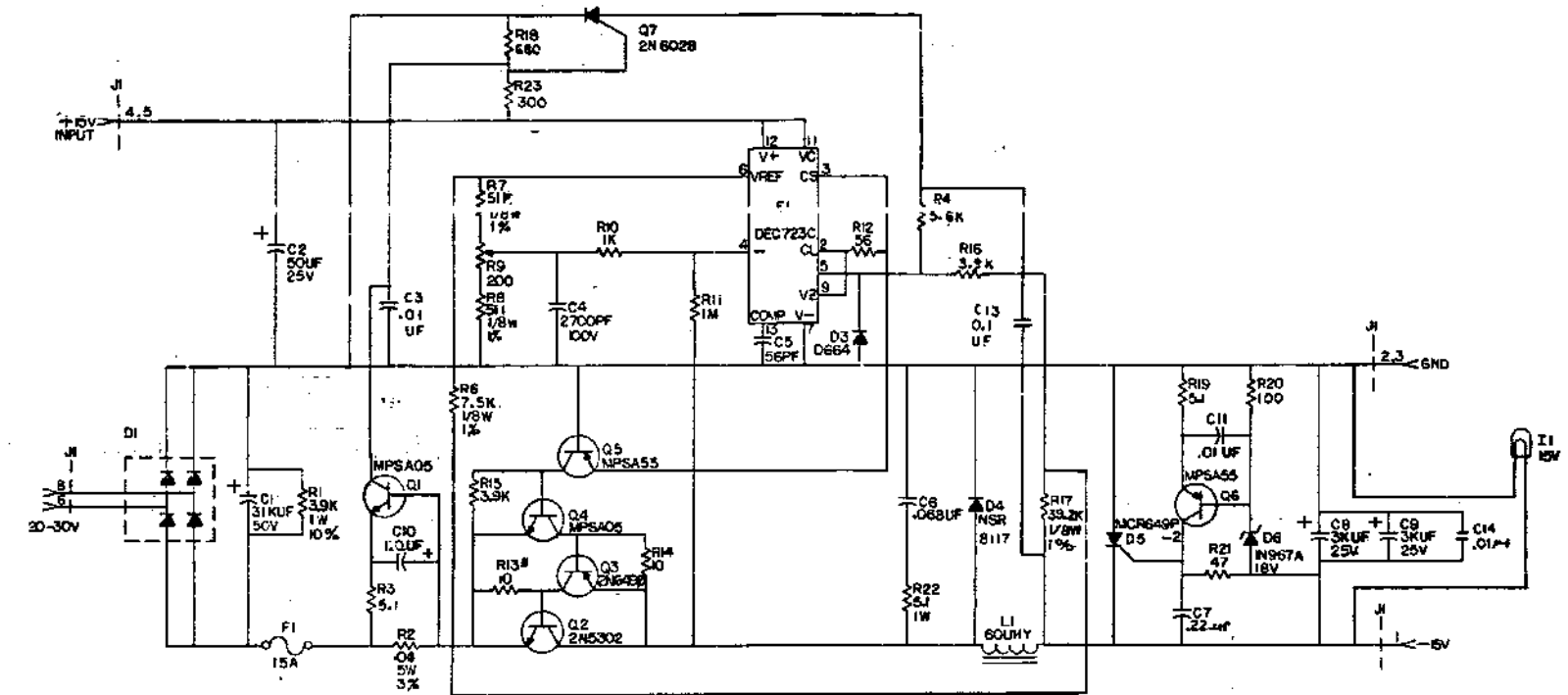
UNIT VARIATIONS		PRINT SET
VAR	TITLE	
H745	-15V REGULATOR	X

DEC 14 1975

REVISIONS		USED ON OPTION/MODEL	DRN	DATE	TITLE			
CHG. NO.	REV	11/45	D. FONTAINE	2-7-72	-15V REGULATOR			
1745-16	K		CHK'D.					
1745-17	L		J GAUDETTE	2-17-72				
1745-18	M		PROJ ENG.					
1745-19	N		G POTTER	2-25-72				
1745-20	P		PRCD.		SIZE	CODE	NUMBER	
1745-21			A. HUSCH	2-25-72	B	DD	H745-0	
1745-22	R		FIELD SERV.		REV			
			A. ZINS	2-25-72	R			
DATE		SHEET			DIST			
9-76		1	OF 2					

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* FUSIBLE
UNLESS OTHERWISE INDICATED:
RESISTORS = 1/8W, 5%

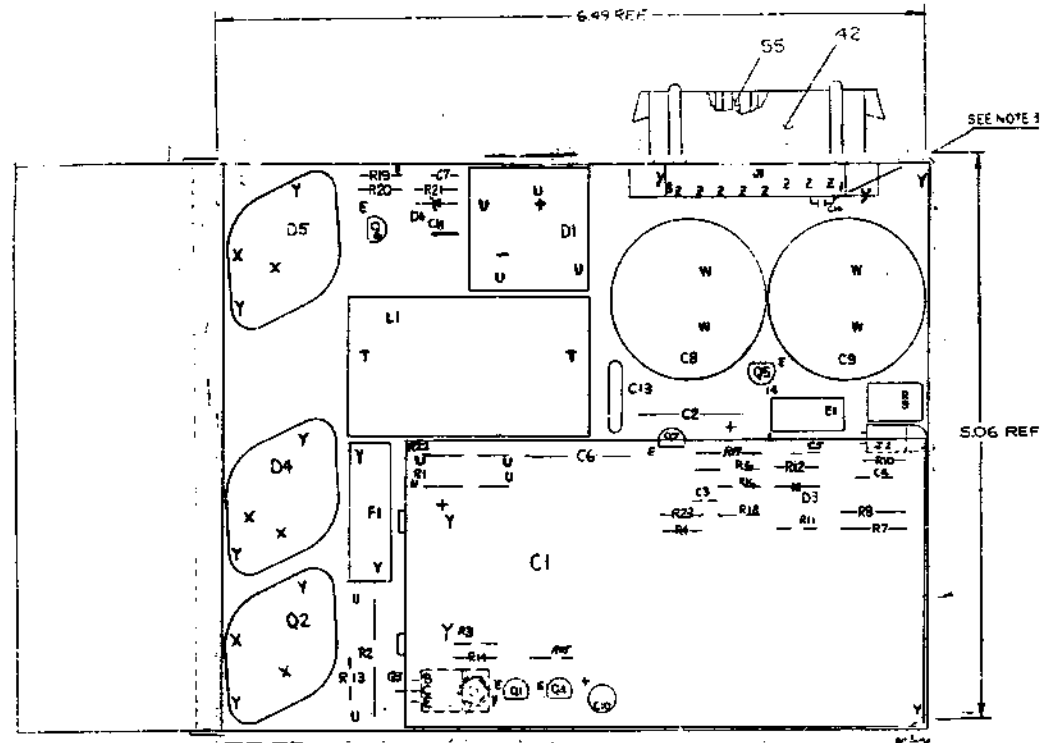
QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
	ETCH BOARD REV	E		
	D664	IN 3606	D45H8	
	NSR 8117		2N 6028	
	MCR 849P - 2			
	IN 967A	SAME		
	2N 5302			
	VPS A05			
	VPS A33			
	DEC NO.	EIA NO.	DEC NO.	EIA NO.
SEMICONDUCTOR CONVERSION CHART				
SCALE		DICS H7451-0-1		

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Assembly and Test Instructions
 The Assembly and Test Instructions for this equipment are contained in the following publications:
 1. Assembly and Test Instructions (This Document)
 2. Maintenance Instructions (This Document)
 3. Electrical Test Procedures (This Document)
 4. Diagrams (This Document)

NOTE:
 3. INSERT C14 INTO ETCH PAD HOLES CONNECTED TO J1 TERMINALS 1-2.

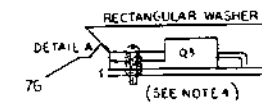
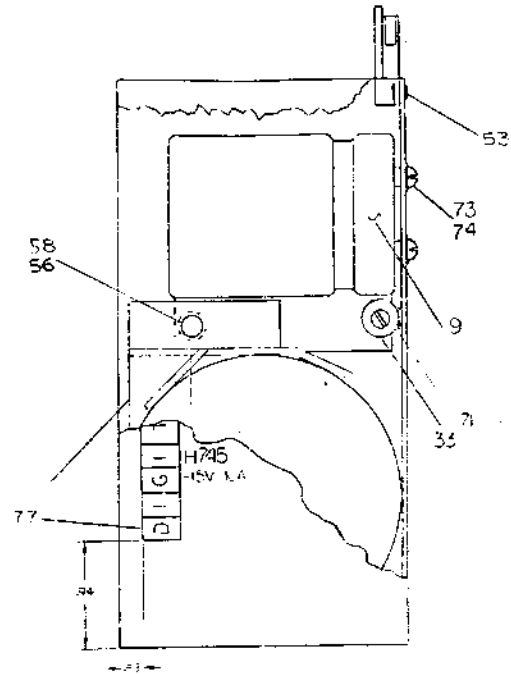
NOTE:
 1. APPLY ITEM # 51 (THERMAL COMPOUND) BETWEEN TRANSISTOR AND INSULATOR WASHER (ITEM # 52) ALSO BETWEEN WASHER & HEAT SINK FOR Q1 & Q5 ALSO APPLY ITEM # 51 (THERMAL COMPOUND) BETWEEN ITEM # 41 (200 BRIDGE) AND ITEM # 59 (HEAT SINK).
 2. 10100001 MAY BE SUBSTITUTED FOR C13 (10000030).



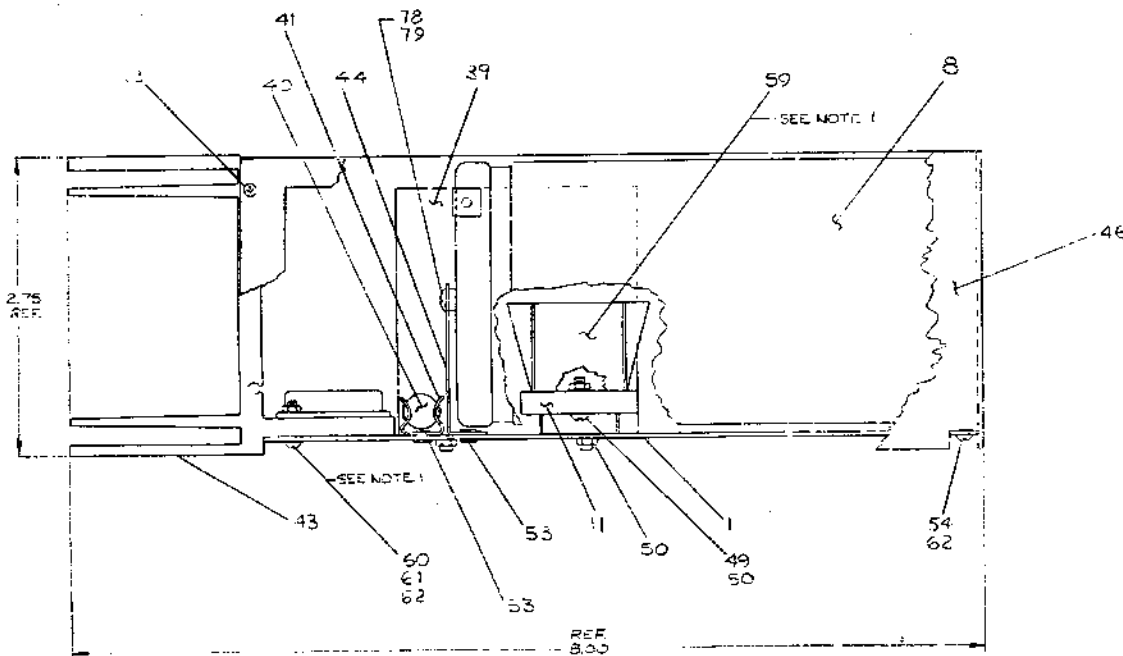
SEE NOTE 1

506 REF

61,65 SEE DETAIL A



NOTE 4:
 Q3 SCREW HEAD SHOULD BE ON TOP OF FLAT RECTANGULAR WASHER AS SHOWN, APPLY 6 INCH LBS. OF TORQUE WHEN SECURING Q3 TO CRT. BOARD BEFORE SOLDERING.
 NOTE 5: TORQUE APPLICATION
 (1) APPLY 12 INCH LBS. OF TORQUE TO ALL #4 HARDWARE EXCEPT Q3.
 (2) APPLY 16 INCH LBS. OF TORQUE TO ALL #6 AND #10 HARDWARE.
 (3) ALL HARDWARE TO BE TORQUED BEFORE SOLDERING.



SEE NOTE 1

REF. BRO

1	DECAL (H745)	7416345-02	50
2	WASHER INT. TIGHT #10	9006635	79
3	SCREW PAN 10-32 x 3/16 L.G.	9003669-01	78
4	CAP .22 uF 50V	1010274	77
5	WASHER, RECTANGULAR	9009769	76
6	RES 100K OHM FUSIBLE	1312495-00	75
7	LOCKWASHER #10 INT	9006635	74
8	SCR #10-32 x 3/16 SLOTTED FIN HD.	9009669-01	73
9			72
10			71
11			70
12			69
13			68
14			67
15			66
16			65
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18			63
19			62
20			61
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65			16
66			15
67			14
68			13
69			12
70			11
71			10
72			9
73			8
74			7
75			6
76			5
77			4
78			3
79			2
80			1

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
1	ASSY/DRILLING HOLE LAYOUT	10	70
2	PACKING INSTRUCTIONS	1	68
3	RES. 50K OHM 5%	1301424	58
4	RES. 200 OHM 5%	1301425	57
5	SEE NOTE 2	1	56
6	SCR PIN BRIDGE 200	1000000	55
7	SCR PIN BRIDGE 100	1000000	54
8	LAMP 10W	1214356	53
9	SCR PIN BRIDGE 50	1000000	52
10	SCR PIN BRIDGE 25	1000000	51
11	SCR PIN BRIDGE 10	1000000	50
12	SCR PIN BRIDGE 5	1000000	49
13	SCR PIN BRIDGE 2	1000000	48
14	SCR PIN BRIDGE 1	1000000	47
15	SCR PIN BRIDGE 0.5	1000000	46
16	SCR PIN BRIDGE 0.2	1000000	45
17	SCR PIN BRIDGE 0.1	1000000	44
18	SCR PIN BRIDGE 0.05	1000000	43
19	SCR PIN BRIDGE 0.02	1000000	42
20	SCR PIN BRIDGE 0.01	1000000	41
21	SCR PIN BRIDGE 0.005	1000000	40
22	SCR PIN BRIDGE 0.002	1000000	39
23	SCR PIN BRIDGE 0.001	1000000	38
24	SCR PIN BRIDGE 0.0005	1000000	37
25	SCR PIN BRIDGE 0.0002	1000000	36
26	SCR PIN BRIDGE 0.0001	1000000	35
27	SCR PIN BRIDGE 0.00005	1000000	34
28	SCR PIN BRIDGE 0.00002	1000000	33
29	SCR PIN BRIDGE 0.00001	1000000	32
30	SCR PIN BRIDGE 0.000005	1000000	31
31	SCR PIN BRIDGE 0.000002	1000000	30
32	SCR PIN BRIDGE 0.000001	1000000	29
33	SCR PIN BRIDGE 0.0000005	1000000	28
34	SCR PIN BRIDGE 0.0000002	1000000	27
35	SCR PIN BRIDGE 0.0000001	1000000	26
36	SCR PIN BRIDGE 0.00000005	1000000	25
37	SCR PIN BRIDGE 0.00000002	1000000	24
38	SCR PIN BRIDGE 0.00000001	1000000	23
39	SCR PIN BRIDGE 0.000000005	1000000	22
40	SCR PIN BRIDGE 0.000000002	1000000	21
41	SCR PIN BRIDGE 0.000000001	1000000	20
42	SCR PIN BRIDGE 0.0000000005	1000000	19
43	SCR PIN BRIDGE 0.0000000002	1000000	18
44	SCR PIN BRIDGE 0.0000000001	1000000	17
45	SCR PIN BRIDGE 0.00000000005	1000000	16
46	SCR PIN BRIDGE 0.00000000002	1000000	15
47	SCR PIN BRIDGE 0.00000000001	1000000	14
48	SCR PIN BRIDGE 0.000000000005	1000000	13
49	SCR PIN BRIDGE 0.000000000002	1000000	12
50	SCR PIN BRIDGE 0.000000000001	1000000	11
51	SCR PIN BRIDGE 0.0000000000005	1000000	10
52	SCR PIN BRIDGE 0.0000000000002	1000000	9
53	SCR PIN BRIDGE 0.0000000000001	1000000	8
54	SCR PIN BRIDGE 0.00000000000005	1000000	7
55	SCR PIN BRIDGE 0.00000000000002	1000000	6
56	SCR PIN BRIDGE 0.00000000000001	1000000	5
57	SCR PIN BRIDGE 0.000000000000005	1000000	4
58	SCR PIN BRIDGE 0.000000000000002	1000000	3
59	SCR PIN BRIDGE 0.000000000000001	1000000	2
60	SCR PIN BRIDGE 0.0000000000000005	1000000	1

IC TYPE	END	REF	ITEM NO.	ANG.	FROM PT.	TO PT.

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
1	TRANSISTOR	1	71
2	TRANSISTOR	1	72
3	TRANSISTOR	1	73
4	TRANSISTOR	1	74
5	TRANSISTOR	1	75
6	TRANSISTOR	1	76
7	TRANSISTOR	1	77
8	TRANSISTOR	1	78
9	TRANSISTOR	1	79
10	TRANSISTOR	1	80
11	TRANSISTOR	1	81
12	TRANSISTOR	1	82
13	TRANSISTOR	1	83
14	TRANSISTOR	1	84
15	TRANSISTOR	1	85
16	TRANSISTOR	1	86
17	TRANSISTOR	1	87
18	TRANSISTOR	1	88
19	TRANSISTOR	1	89
20	TRANSISTOR	1	90

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

EQUIPMENT CORPORATION
 -15 REGULATOR
 H745-U-C

DRAWING DIRECTORY

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CUSTOMER PRINT SET INDEX

DRAWING DIRECTORY
 +20 VOLT REGULATOR

B-DD-H754- β
 E-CS-H754-0-1

THIS IS PRINT SET

UNIT VARIATIONS		PRINT SET
VAR	TITLE	
H754-0	+20 VOLT REGULATOR	X

DRG 106 (10-21-74) (REV 1) (10-21-74) (REV 2)

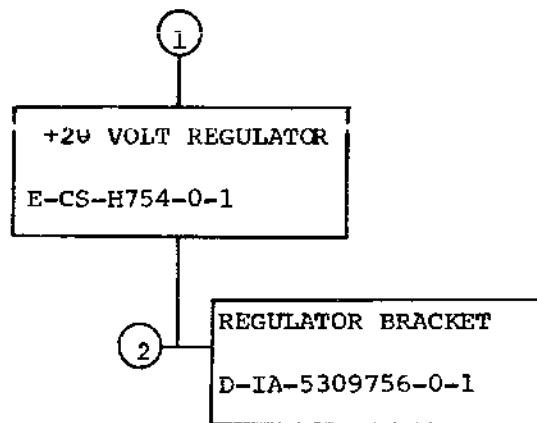
DATE	CHG. NO.	REV
10-75	H754-9	A
11-3	H754-10	B

USED ON OPTION/MODEL	DRN	DATE	TITLE	SIZE	CODE	NUMBER	REV
	J. Fleming	2/21/74	+20 VOLT REGULATOR	B	DD	H754- β	B
	CHK'D.	DATE					
	J. Fleming	2/21/74					
	PROJ ENG.	DATE					
	<i>E. S. Kline</i>	3-13-74					
	PROD.	DATE					
	<i>Nate Thomas</i>	3-14-74					
	FIELD SERV.	DATE					
	<i>Walt Ober</i>	7/25/74					
SHEET 1 OF 3							
DIST							

CUSTOMER PRINT SET					ELECTRICAL					CUSTOMER PRINT SET					MECHANICAL				
1	MFG SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE	1	MFG SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE				
																1	1	1	1
X		1	B-DD-H754-Ø	#	3	DRAWING DIPECTORY		X		1	E-CS-H754-0-1	#	2	+20 VOLT REGULATOR					
X			E-CS-H754-Ø-1	#	2	+20 VOLT REGULATOR					D-PS-1210737-0-0		1	HEAT SINK REGULATOR					
			K-CO-H754-Ø-4	-	-	X-Y COORDINATE HOLE LOCATION					C-IA-5309758-0-0		1	CAPACITOR BRACKET					
			D-AH-H754-Ø-5		1	ASSY/DRILLING HOLE LAYOUT													
			B-MH-H754-Ø-6		1	MODULE ECO HISTORY													
			5010531		-	ETCHED CIRCUIT BOARD													
			A-SP-H754-Ø-8		3	MANUFACTURING SPEC													
										2	D-IA-5409756-0-0		1	BRACKET REGULATOR					
											A-SS-5309756-0-1		1	SILK SCREEN					
											A-SS-5309756-0-2		1	SILK SCREEN					
											A-SS-5309756-0-3		1	SILK SCREEN					

CUSTOMER PRINT SET CODES
 X = PRINT OF DOCUMENT INCLUDED IN PRINT SET
 C = INCLUDES ALL PRINTS INDICATED ON DOCUMENT
 S = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED

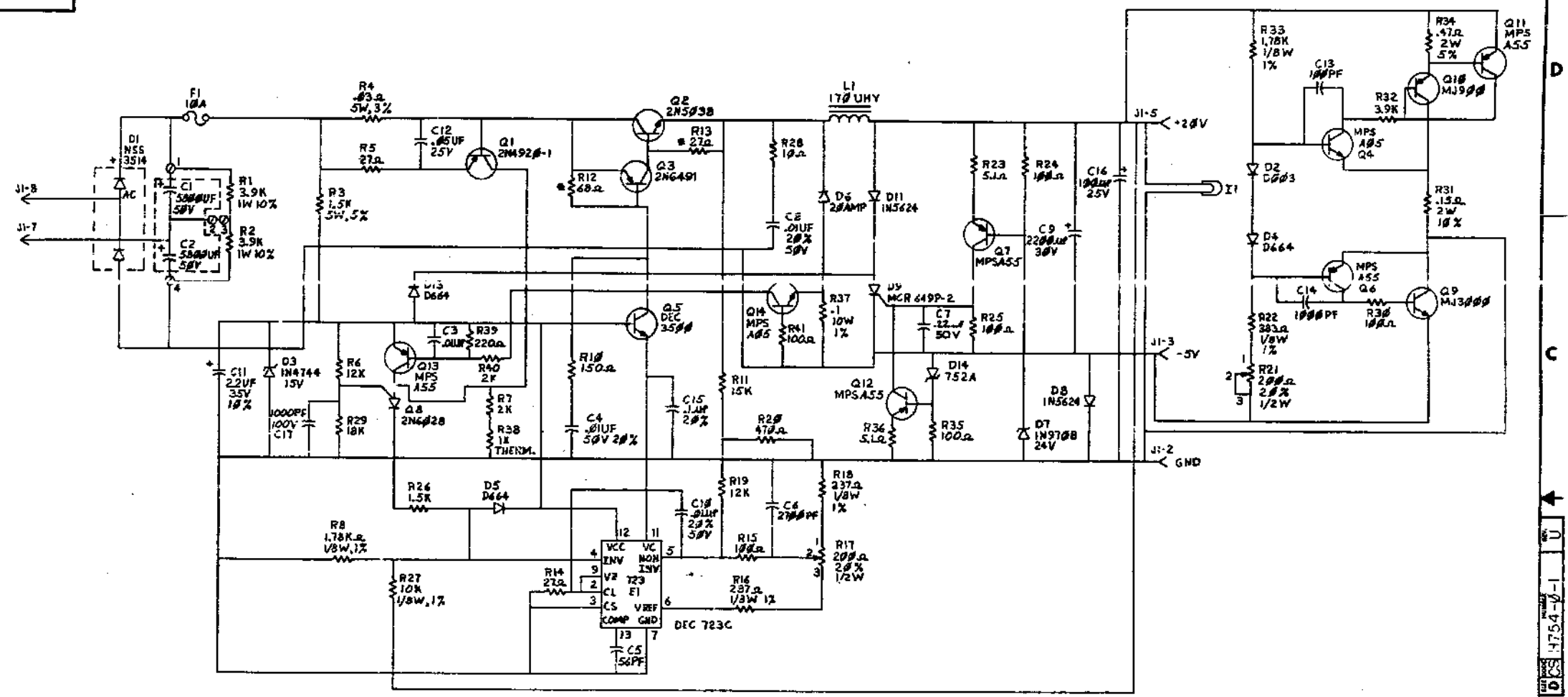
TITLE
 +20 VOLT REGULATOR
 SHEET 2 OF 3
 SIZE CODE B DD
 NUMBER H754-Ø
 REV B



TITLE	SHEET	OF	SIZE	CODE	NUMBER	REV
+20 VOLT REGULATOR	3	3	B	DD	H754-Ø	5

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1-0-PS21H SOG 2



* FUSIBLE RESISTOR

DRN: BISSNETT 8-29-72	FIRST USED ON	H754
CHD: RAYLES 2-17-72	TITLE	+20 VOLT REGULATOR
ENG: R. TUNTON 5-7-72	SIZE	D
PRG: ENG. 2-20-72	NUMBER	H754-3-1
PAO: L. TAPATE 5-9-72	REV.	U
NEXT HIGHER ASSY.	SCALE	
	SHEET	3 OF 2

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FIELD MAINTENANCE PRINT SET

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TABLE OF CONTENTS

B-TC-H785-Ø-1 H785 REGULATOR BATTERY BACKUP (TC)
 E-UA-H785-Ø-Ø H785 UNIT ASSY
 D-UA-5412343-0-0 H785 BATTERY BACKUP REGULATOR
 B-PL-5412343-0-0 H785 BATTERY BACKUP REGULATOR (PL)
 D-CS-5412343-0-1 H785 BATTERY BACKUP REGULATOR (CS)
 D-UA-5412385-0-0 H785 CONTROL BOARD
 B-PL-5412385-0-0 H785 CONTROL BOARD (PL)
 D-CS-5412385-0-1 H785 CONTROL BOARD (CS)
 D-UA-5412411-0-0 INPUT RECTIFIER BOARD
 B-PL-5412411-0-0 INPUT RECTIFIER BOARD (PL)
 D-CS-5412411-0-1 INPUT RECTIFIER BOARD (CS)

UNIT VARIATIONS COVERED BY THIS PRINT SET
H785-Ø

H785 Field Maintenance Print Set

Digital Equipment Corporation

PRINT SET ORDER NO.
MPØØ272

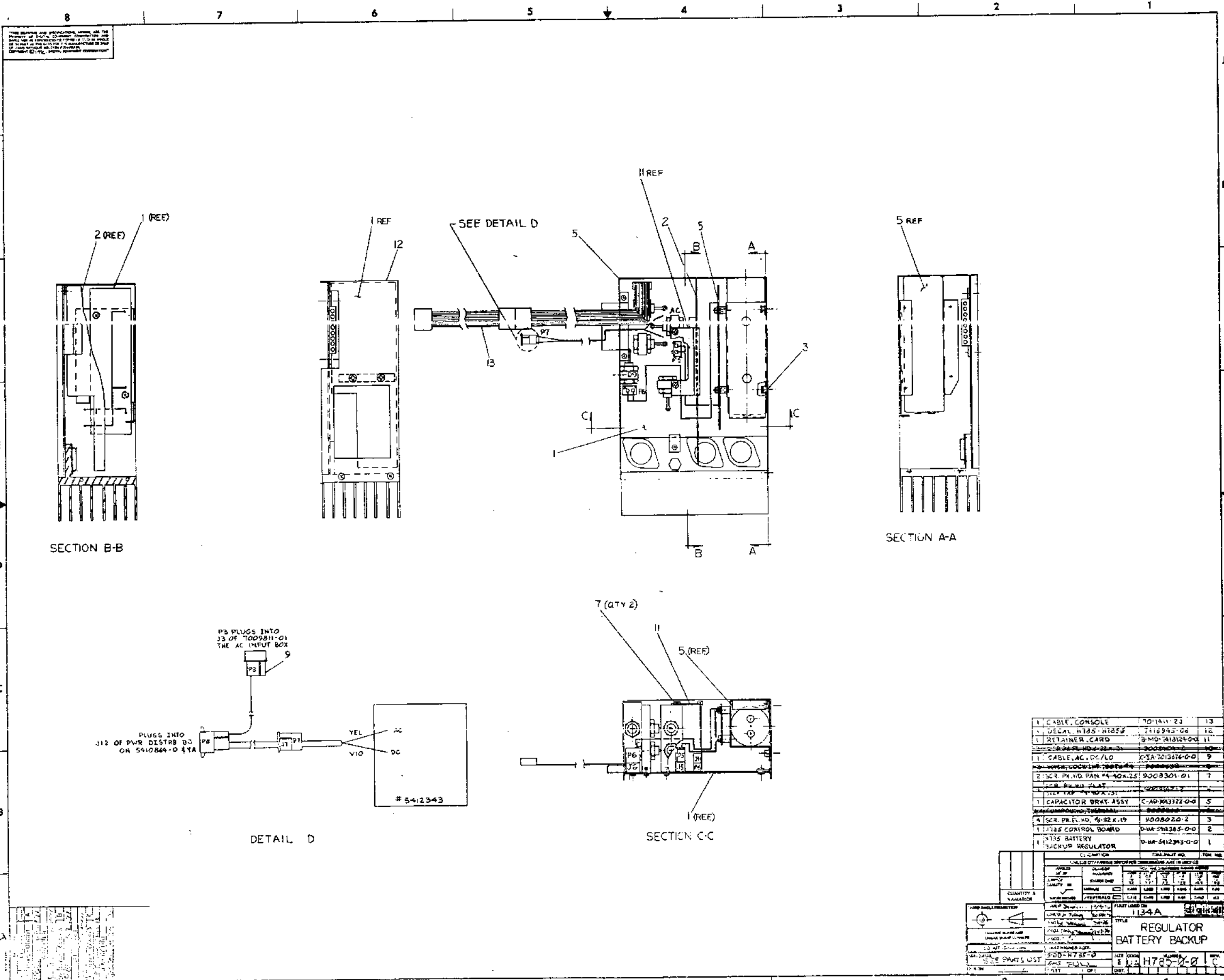
REVISIONS	REV.	A
	CHG. NO.	H785-3
	DATE	2-78

USED ON OPTION/MODEL	DRN.	DATE	TITLE:			
7013323	D. HEALY	NOV 76	H785 REGULATOR BATTERY BACKUP			
1134A	CHK'D	DATE				
	D. HEALY	NOV 76	SIZE	CODE	NUMBER	REV.
	PROJ. ENG.	DATE	B	TC	H785-Ø-1	A
	<i>Joe Marconi</i>	12-19-76	DIST.			
	FIELD SERV.	DATE				
SHEET 1 OF 1		<i>[Signature]</i>				
		12-20-76				

digital

DRB 124

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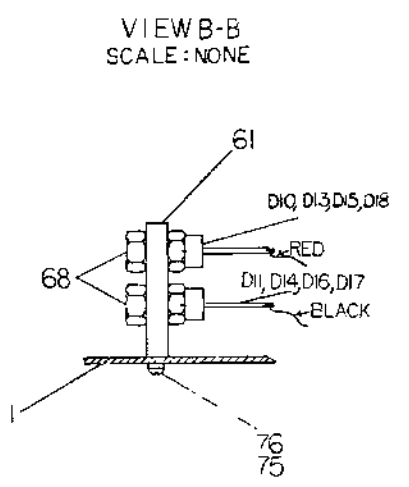
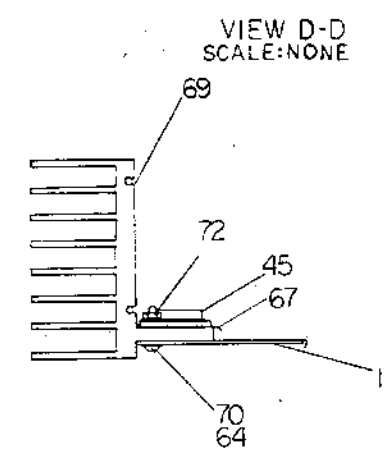
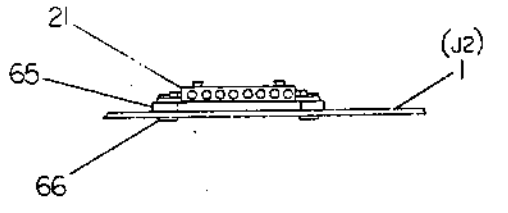
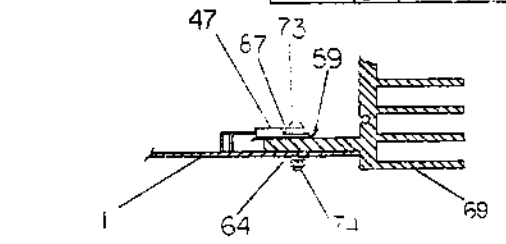


8 7 6 5 4 3 2 1

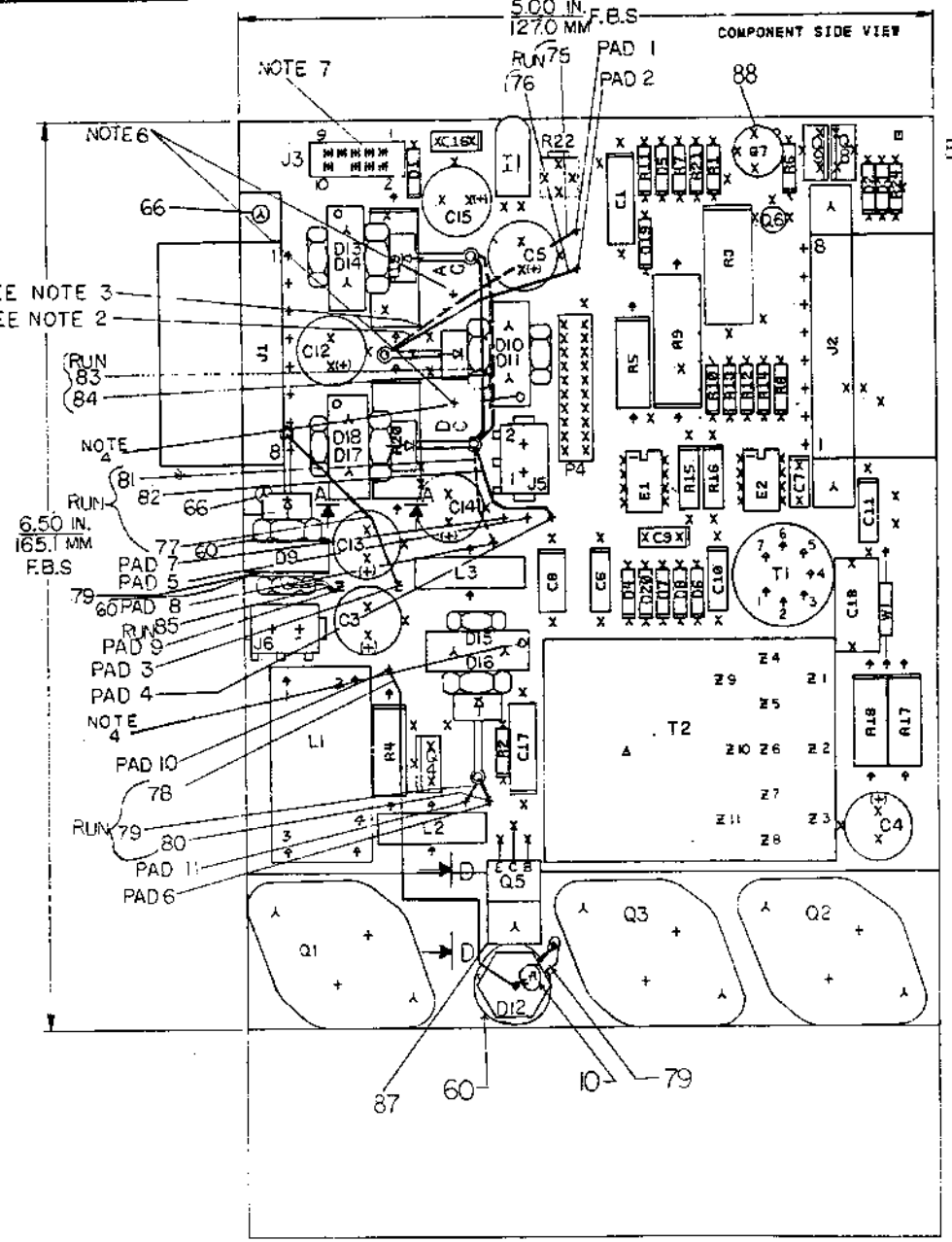
THIS SHEET IS AN ELECTRICAL DRAWING AND NOT A MECHANICAL DRAWING. THE DIMENSIONS ARE TO THE CENTER UNLESS OTHERWISE SPECIFIED. THE DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED. DATE 08/09/77

WIRE TABLE								
ITEM NO.	RUN NO.	AWG	COLOR	FROM	TO	H785	H7850	LENGTH
77	75	18	BLK	D11 ANODE	PAD 1	PAD 1	PAD 1	450
77	76	18	RED	D10 ANODE	PAD 2	PAD 2	PAD 2	450
77	18	18	RED	D9 CATHODE	PAD 3	PAD 3	PAD 3	300
77	78	18	RED	D12 CATHODE	PAD 10	PAD 10	PAD 10	375
77	79	18	BLK	D16 ANODE	PAD 11	PAD 11	PAD 11	150
77	80	18	RED	D15 ANODE	PAD 6	PAD 6	PAD 6	200
77	81	18	BLK	D17 CATHODE	PAD 8	PAD 7	PAD 7	275
77	82	18	RED	D18 CATHODE	PAD 4	PAD 5	PAD 5	275
77	83	18	RED	D13 ANODE	D18 CATHODE	D18 CAT	D18 CAT	350
77	84	18	BLK	D14 ANODE	D17 CATHODE	D17 CAT	D17 CAT	350
85	18	18	BLK	D9 ANODE	PAD 9	PAD 9	PAD 9	300

UNTWIST ITEM NO. 77 AND USE PROPER COLOR.



SEE NOTE 3
SEE NOTE 2



NOTES:
1. SEE SHEET 4 OF 4 FOR DIODE WIRING.
2. SOLID LINE INDICATES WIRE FROM THE TOP DIODE.
3. DASHED LINE INDICATES WIRE FROM BOTTOM DIODE.
4. TAPPED HOLE AT TOP OF HEATSINKS MUST FACE PROPER WAY TO ALLOW INSERTION OF CARD GUIDE.
5. HOLE SPECIFICATIONS:
5.1. HOLE MUST BE IN CENTER OF TUBE.
5.2. HOLE MUST BE PERPENDICULAR TO HOLE IN HEAD.
5.3. HOLE MUST BE IN CENTER OF HOLE FROM HEAT SIDE.

NOTES:
6. SOLDER ITEM NO. 55 AC DC CABLE TO REGULATOR BOARD RED WIRE TO RTH MARKED DC. BLACK WIRE TO PTH MARKED AC.
7. INSERT ON TO J3 ITEM NO. 58.

NO.	DATE	REVISIONS
1	08-09-77	INITIALS
2		
3		
4		
5		
6		
7		
8		
9		
10		

ETCH LEV. C
P.C. DESIGN DATA REV. C

SIGNATURES	DATE
<i>[Signature]</i>	8-9-77
<i>[Signature]</i>	8-9-77
<i>[Signature]</i>	8-9-77
<i>[Signature]</i>	8-9-77
<i>[Signature]</i>	8-9-77

TITLE: H785 BATTERY
SUBTITLE: BACKUP REGULATOR

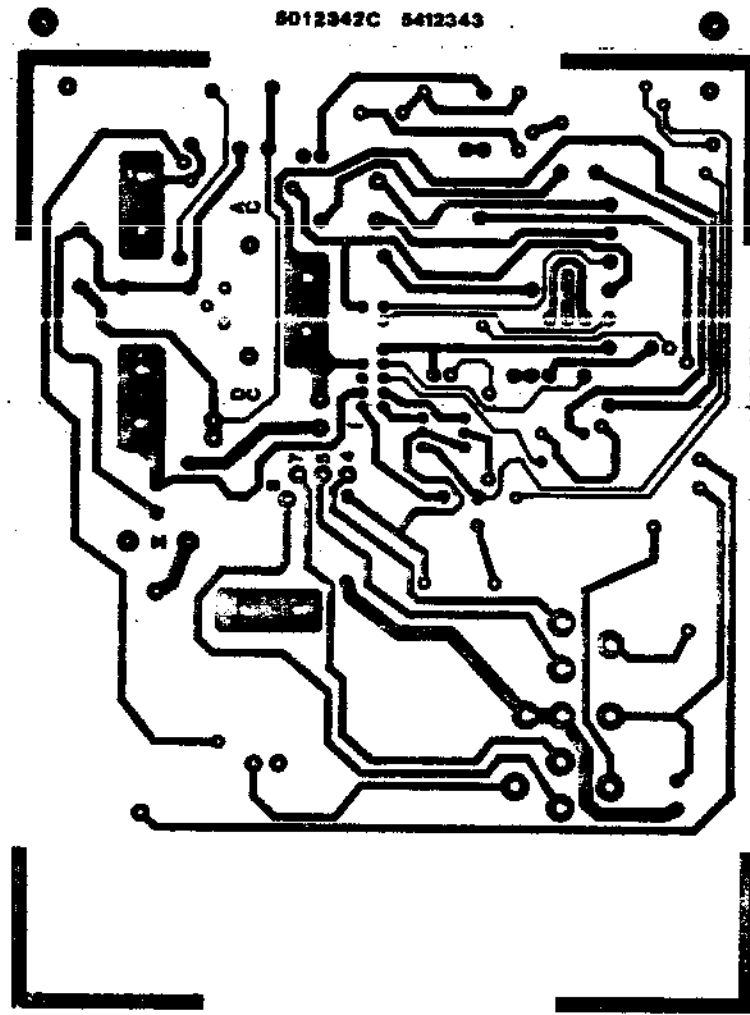
SCALE: 2-1
SHEET: 1 OF 5
CONT. OTHER ASSY: B-D0-5412343-0

SIZE CODE: 0
NUMBER: UA 5412343-0-0
REV: 1

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DUAL 5412343-0-0 2

8012342C 5412343



REV. LOGS		
DATE	CHARACTER	BY

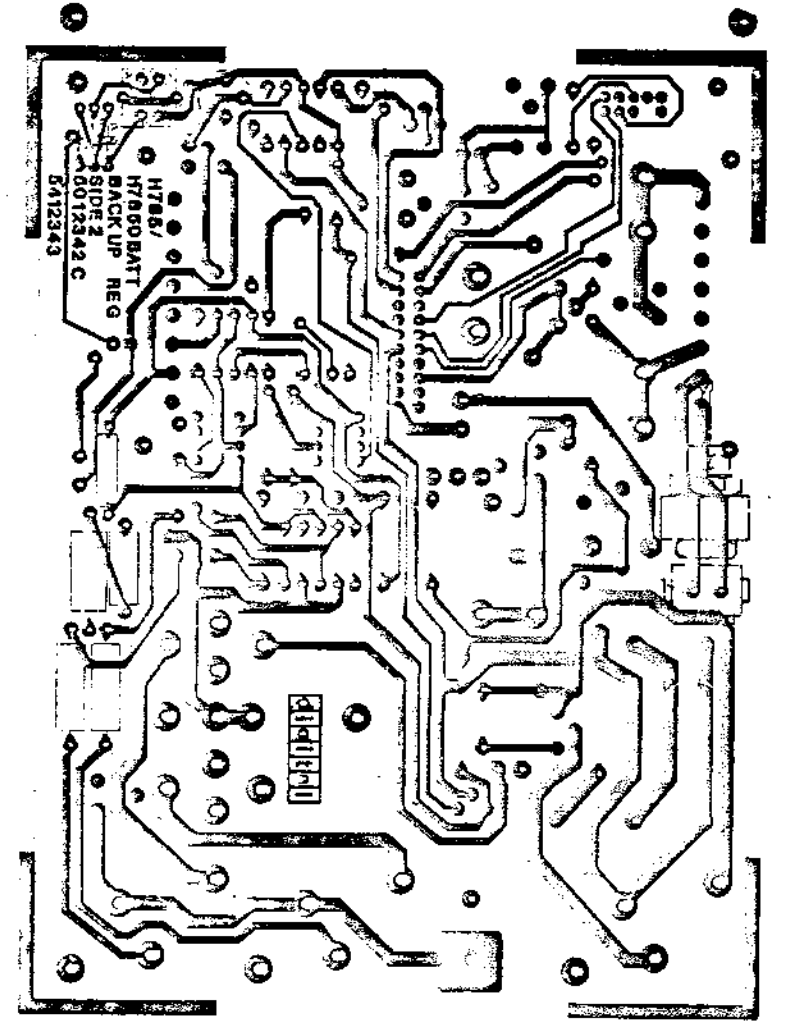
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SCALE	2/1	SHEET	2 OF 5	DATE			

DUAL 5412343-0-0 F

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8 7 6 5 4 3 2 1

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DUA 5412343-0-0 F

REVISIONS		
CHK	CHANGE NO	REV

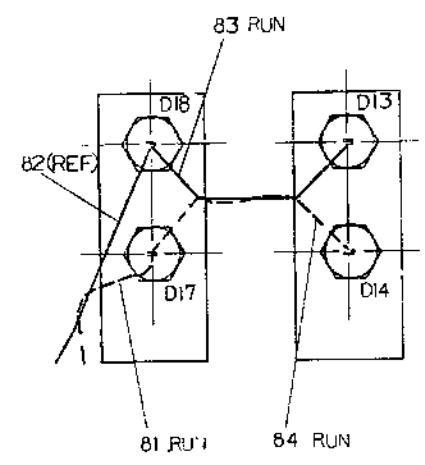
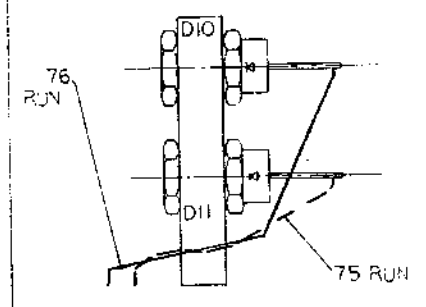
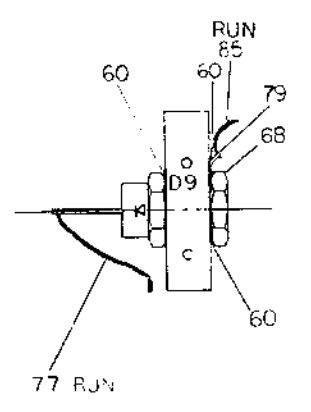
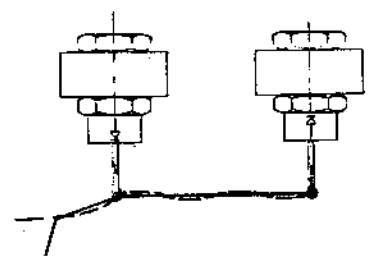
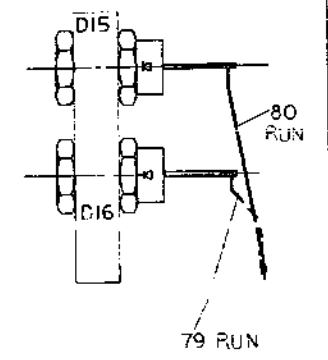
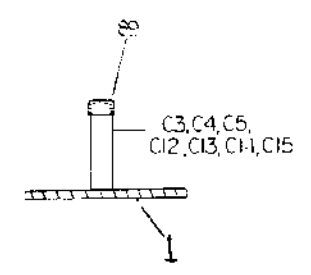
8 7 6 5 4 3 2 1

TITLE	H785 BATTERY BACKUP REGULATOR	SIZE/CODE	DUA	NUMBER	5412343-0-0	REV.	F
SCALE	2/1	SHEET	3 OF 5	LIST			

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NOTES:
 1. WIRING INFORMATION IS ON SHEET 1 OF 4.

2. DIODES TO BE ASSEMBLED TO HEAT-SINKS AND WIRED AS SHOWN BEFORE INSTALLING TO BOARD.



REVISIONS		
CHK	CHANGE NO.	DATE

TITLE	H785 BATTERY BACKUP REGULATOR	DESIGN NUMBER	DJA 5412343-2/2	REV.	F
SCALE	2/1	SHEET	4 OF 5	DWG. NO.	

DJA 5412343-2/2

491

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SEE DETAIL A

81 QTY(2)

82 QTY(4)

86

1

83

84

DETAIL A
(TYPICAL 2 PLACES)
SCALE: NONE

REV. SONS		
CHK	CHANGE NO	REV.

TITLE H785 BATTERY BACKUP REGULATOR		SIZE CODE DUA	NUMBER 5412343-C-G	REV. F
SCALE 1-1	SHEET 5	OF 5	DIST.	

DUA 5412343-C-G

492

LINE ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
1	1	5412342-00	ETCH BRD 54-12343	1	
2	2	1002431-00	2.2MFD 35V 10% 1505 S.TA (10-00)	1	C10
3	3	1012607-02	100 MFD 50V H% 6720 AL EL	3	C3-C5
4	4	1000042-00	1000.0 MUF 100V 5%200PPM DM15S (10-00)	1	C7
5	5	1010646-00	.015 MFD 50V 2% M.POLYCARB	1	C8
6	6	1000024-00	470.0 MUF 100V 5%200PPM DM15S (10-00)	1	C9
7	7	1001776-00	1 MFD 35V 10% 1500 S.TA (10-00)	2	C6,C11
8	8	1012607-00	560 MFD 20V H% 6720 AL EL	3	C12-C14
9	9	1012607-01	1200 MFD 6.3V H% 6720 AL EL	1	C15
10	10	1010621-00	.1 MFD 50V 20% 25U DISC	2	C16,C19
11	11	1004813-00	10 MFD 20V 10% 1500 S.TA (10-00)	2	C1,C17
12	12	1000030-00	.1 MFD 100V 20% 25U DISC	1	C18
13	13	BLANK			
14	14	1100125-00	1N 758A VZ= 10.0 5% .40W PPER S.A.V.BC	2	D2,D3
15	15	1105275-00	D 672 JR= 15MS PIV= 60V SP	7	D1,D4-D8,D20
16	16	1109440-00	1N 308A PIV=100 I= 6A D04 SM	6	D10,D11,D13-D16
17	17	1113366-00	1N 3060R PIV=100 I=6A S	4	D17,D18,D9,D12
18	18	1105648-00	1N 4744 VZ= 15.0 10% 1W Y	1	D19
19	19	BLANK			
20	20	1211004-02	SOCKET,100 22POS EDGE MOUNT	1	P4
21	21	1209340-00	MATE-N-LOK 2PIN,HOUSING,SKT	2	J1,J2
22	22	1209456-01	MATE-N-LOK SKT PCB TAB LOOSE	16	
23	23	1211342-02	MATE-N-LOK 2PIN PC TYPE	2	J5,J6
24	24	1209219-01	LAMP 6V0200MA,T1-3/4PINS#2319	1	L1
25	25	BLANK			
26	26	1300202-02	47 1/4" 5% CC (13-00)	1	R2
27	27	1309639-00	200 5% 5% HW (13-00)	1	R3
28	28	1312682-00	3 3% 5% (13-00)	1	R4
29	29	1307950-00	1.2 K 1% 10% CC (13-00)	1	R5
30	30	1300426-00	2.7 K 1/4" 5% CC (13-00)	2	R6,R7

REVISION HISTORY			VARIATIONS FOR THIS ASSY.			
CHK	ECO NO	REV	FIRST USED ON:		DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
0.0	00004	F	MADE BY:	D GILDEAU	DATE: 31-JUL-78	
			CHECKED:	R PUZZO	DATE: 31-JUL-78	
			DSN.ENG.:	J MERCURI	DATE: 31-JUL-78	
			PROP.:	R KING	DATE: 31-JUL-78	
			RESP.ENG.:	J MERCURI	DATE: 31-JUL-78	
			SIZE:CODE:	DOCUMENT NUMBER	REV	
			K	PL	5412343-0-00P	1
			ASSY. O.:	0-0A-5412343-0-0	EDIT#	3

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PARTS LIST

LINE	ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
31	31		1309688-00	2.7 M 1/4W 5%	1	R8
32	32		1313712-00	.01 5W 3%	1	R9
33	33		1300365-00	1 K 1/4W 5%	2	R1,R11
34	34		1300229-00	100 1/4W 5%	1	R12
35	35		1302466-00	100 K 1/4W 5%	2	R13,R14
36	36		1312404-00	2.21 K 1/2W 1% RN60D-F 100PPM	2	R15,R16
37	37		1313579-00	1.5 3W 5%	2	R17,R18
38	38		1309855-00	300 2W 5%	2	R19,R20
39	39		1302479-00	10 K 1/4W 5%	1	R21
40	40		1310852-00	200 20% POT	1	R22
41	41		1300391-00	1.5 K 1/4W 5%	1	R10
42	42		1300316-00	47W 1/4W 5%	1	R24
43	43	BLANK				
44	44	BLANK				
45	45		1510969-00	2N 5038 NPN 140VC SI 90 50 Y	3	Q1-Q3
46	46		1510708-00	D 45HR PNP 50AT SI 60 60 Y	2	Q4,Q8
47	47		1512790-00	D 44C11 NPN 30W SI 80 40	2	Q5,Q9
48	48		1511686-00	DEC5433 PET 350MA 10 25 1A 22U	1	Q6
49	49		1510959-00	2N 3725 NPN 3.5VC SI 50 60 P	1	Q7
50	50	BLANK				
51	51		1612590-00	500 OH 6A	1	L1
52	52		1613874-00	CHOCKE, 15UH 4A	2	L2,L3
53	53		1613875-00	XFMR, POWER, RATIO 1:2 7PIN	1	T1
54	54		1613875-00	XFMR, POWER, RATIO 1:2:3 100UH	1	T2
55	55		7013590-00	CABLE 2 PIN AC DC LOW	1	
56	56		1911944-00	555CN TIMER, FUNCT. BLOCK	1	E1
57	57		1910282-00	301AN OP AMP	1	E2
58	58		7013384-1D	10 CONDUCTOR EXTENDER CABLE	1	
59	59		1213071-06	INSULATOR, RUBBER SILICONE	1	
60	60		1213071-05	INSULATOR, RUBBER THERMAL	3	
61	61		7417414-00	HEAT SINK (DUAL)	4	
62	62		7417413-00	HEAT SINK (SINGLE)	1	
63	63		9006655-00	WASHER, FLAT, .312 O.D. X .125 I.D. X .025 T	1	
64	64		9006656-00	WASHER, FLAT, .312 O.D. X .156 I.D. X .027 T	6	
65	65		9006706-00	WASHER, NYLON, FLAT 44 .375 OD X .031 THK	2	
66	66		9006745-00	EYELET, ROLLED FLANGE, .120 OD X .260 LG	4	
67	67		1213071-02	INSULATOR, RUBBER SILICONE SM	3	
68	68		9006655-00	NUT, KEP, 6-32X 3/8 AF	1	
69	69		1210737-04	HEAT SINK, REGULATOR	1	
70	70		9007793-00	SCREW, BIND, SLOT, 6-32X 9/16 SS/PAS	6	
71	71		9007649-00	***** THIS ITEM IS NOT USED *****	-	
72	72		9008185-00	NUT, KEP, 6-32X 1/4 AF	6	
73	73		9008033-00	SCREW, PAN, PHIL, 4-40X 9/16 SS/PAS	1	
74	74		9006557-00	NUT, KEP, 4-40X 1/4 AF	1	
75	75		9006632-00	WASHER, LOCK, INT, 200OD X .120ID X .215 THK	5	
76	76		9008010-00	SCREW, BIND, SLOT, 4-40X 5/16 SS/PAS	8	
77	77		9107430-02	WIRE, STRND, 18AWG, IPVC (UL1429)	1	
78	78		9009185-00	JUMPER, WIRE, INSULATED, BLACK BAND	1	

DIGITAL EQUIPMENT CORPORATION MAYFARL, MASSACHUSETTS	TITLE PARTS LIST M785 BATTERY BACKUP REGULATOR	SIZE/CODE A PL	DOCUMENT NUMBER 5412343-0-0BP	REV F
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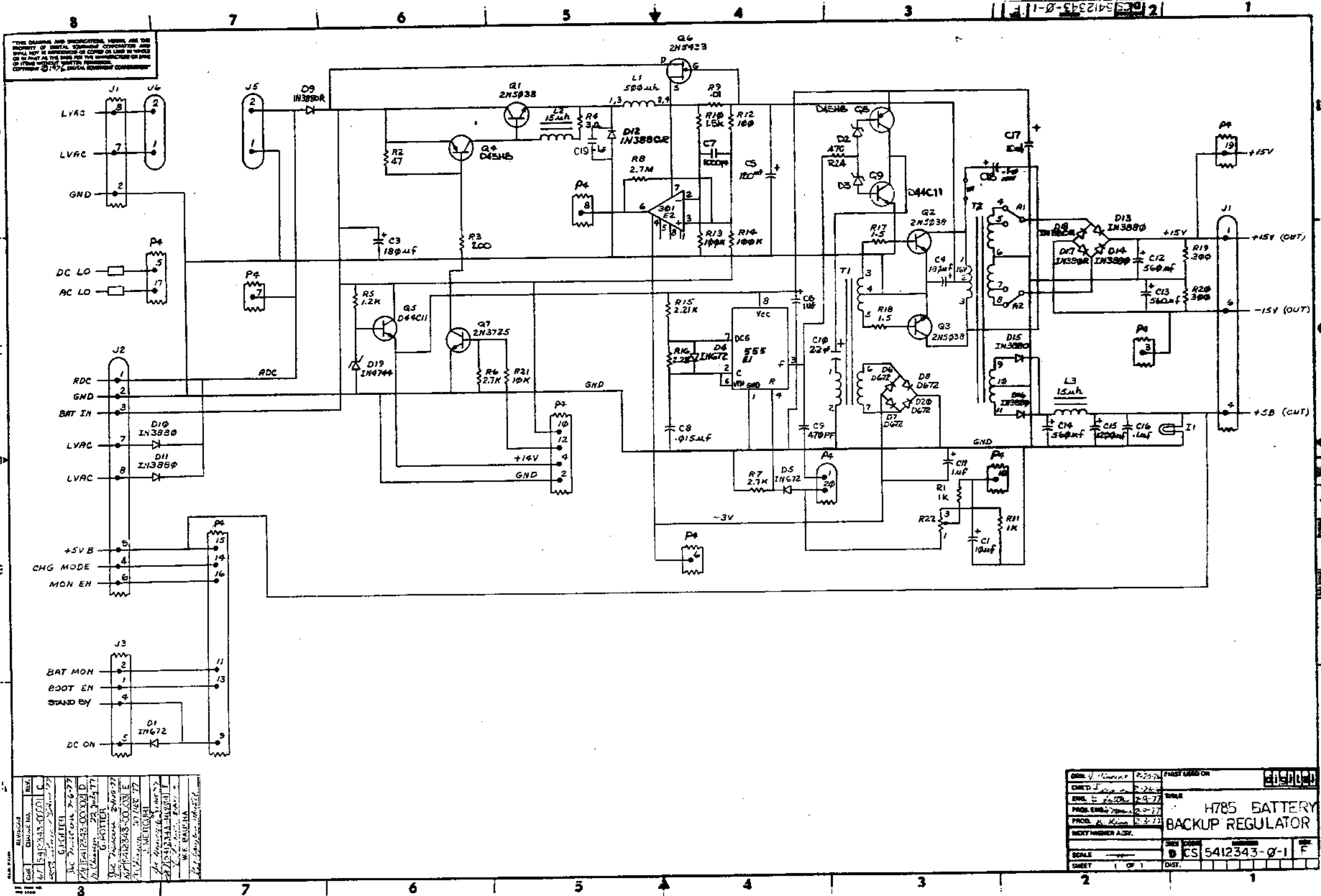
PARTS LIST

SHEET 3 OF 3

LINE ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
79	79	9028506-00	TERM LUG 1POS SOLDER, FLAT	2	
80	80	9009149-00	PIN, STAKING, P.C. BOARD, .025 X .025	9	J3
81	81	9008404-02	SCREW, FLAT, PHIL, 6-32X 5/16 SS/PAS 100D	2	
82	82	9009142-02	SCREW, PHILLIPS FLAT HEAD, SELF TAP, 4-40	4	
83	83	9006010-01	SCREW, PAN, PHIL, 4-40X 5/16 SS/PAS	2	
84	84	9008079-00	WASHER, FLAT FIBER OD. 1/4	2	
85	85	9905212-00	CAPTON, DIE CUT 2412 100	1	
86	86	7417410-00	REGULATOR BRACKET	1	
87	87	9009769-00	WASHER, RECTANGULAR .405X.225X.060	1	
88	88	9007201-00	TRANSIPADS #10253	1	
89	89	9009731-03	CAP, PLASTIC	7	

DIGITAL EQUIPMENT CORPORATION MAYHARD, MASSACHUSETTS	TITLE	PARTS LIST	SIZE	CODE	DOCUMENT NUMBER	REV
		B725 BATTERY BACKUP REGULATOR		PL	5412343-0-08P	F

495



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REV.	DATE	BY	CHKD.	DESCRIPTION
1	11/15/77
2
3
4
5
6
7
8

DESIGNER	DATE	SCALE	1 OF 1
CHKD.
PROG. ENGR.	...	...	...
PROD. ENGR.	...	...	...
PART NUMBER ASSY.		H785 BATTERY BACKUP REGULATOR	
SCALE	...	CS 5412343-0-1	F
SHEET	...	DIST.	...

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REWORK INSTRUCTIONS

ECO #1

- 1-1 CUT ETCH BETWEEN R41 AND D16.
(THIS ETCH LINE RUNS OVER TO THE DRAIN OF Q10) SIDE 1.
- 1-2 CUT ETCH ON RIGHT SIDE OF C14, ON THE ETCH LINE THAT HAS PREVIOUSLY BEEN CUT, SIDE 1.
- 1-3 INSERT ECO WIRE FROM THE DRAIN OF Q10 TO THE LEFT SIDE OF C14, TACK SOLDER TO ETCH LINE ON THE LEFT SIDE OF C14, SIDE 1. (THIS IS THE SAME ETCH LINE THAT WAS CUT ON THE RIGHT SIDE OF C14). ECO WIRE IS TO BE ROUTED TO THE TOP OF THE BOARD FROM THE DRAIN OF Q10 THEN RUN ALONG THE BOARD AND COME DOWN TO THE LAND OF ETCH THAT IT HAS TO BE SOLDERED TO THE LEFT SIDE OF C14.
- 1-4 DRILL A .0635 DIA. HOLE (DRILL #52) BENEATH R32 (SIDE 1) MAKING SURE THE ONLY ETCH DRILLED IS THE ONE WITH BOTH ITS ENDS CUT (SEE STEPS 1 AND 2 OF REWORK INSTRUCTIONS). THIS HOLE HAS TO HOLD DEC. 12-12416-02. BE SURE OF SPACING BEFORE DRILLING.
- 1-5 DRILL A .0635 DIA. HOLE (DRILL #52) ABOVE Q1 TO THE LEFT SIDE OF R1, SIDE 1. BE SURE OF SPACING. THIS HOLE MUST HOLD DEC. 12-12416-02. DO NOT PIERCE ETCH ON SIDE 2.
- 1-6 ON SIDE 2, CUT ETCH LEADING AWAY FROM PIN 9 OF J4.
- 1-7 INSERT DEC. 12-12416-02 IN BOTH HOLES PREVIOUSLY DRILLED. DO NOT INSERT FULLY. INSERT SO THAT ENOUGH OF THE LEAD IS THROUGH THE BOARD THAT WILL PERMIT A COUPLE WRAPS OF AN ECO WIRE. THEN GLUE IN PLACE WITH DEC. 9009157. MAKE SURE THAT TABS ON DEC. 12-12416-02 ARE FACING EACH OTHER ON SIDE 1. (S1 AND S2)
- 1-8 ON DEC. PART 12-12416-02 THE ONE THAT IS LOCATED CLOSEST TO J4 ON SIDE 1, CONNECT THE LEAD THAT GOES THROUGH THE BOARD, TO PIN J4-9 ON SIDE 2. THIS IS DONE WITH AN ECO WIRE INSTALLED ON SIDE 2.
- 1-9 WITH AN ECO WIRE, CONNECT BOTH CASE TABS OF DEC. 12-12416-02 ON SIDE 1 TOGETHER.
- 1-10 DEC. PART 12-12416-02 THAT HAS BEEN INSTALLED BENEATH R32 ON SIDE 1, CONNECT AN ECO WIRE FROM THIS PART'S PIN ON SIDE 2 WITH THE OTHER END OF THE ECO WIRE GOING TO THE P.T.H.

- BETWEEN R41 AND D16. (THIS P.T.H. HAS AN ETCH RUN CONNECTING THE ANODE OF D16 TO IT ON SIDE 2.)
- 1-11 CHANGE R10 FROM 13-13151 3.6K OHM TO 1300391 1.5K OHM
- 1-12 CHANGE R11 FROM 13-00316 470 OHM TO 13-00439 3.3K OHM.
- 1-13 CHANGE R4 FROM 13-00309 390 OHM TO 13-01322 180 OHM.
- 1-14 REMOVE W2 INSULATED JUMPER 90-09185.
- 1-15 REMOVE D17 IN 758A 11-00125
- 1-16 GLUE ALL ECO WIRES DOWN WITH DEC. 90-09157.

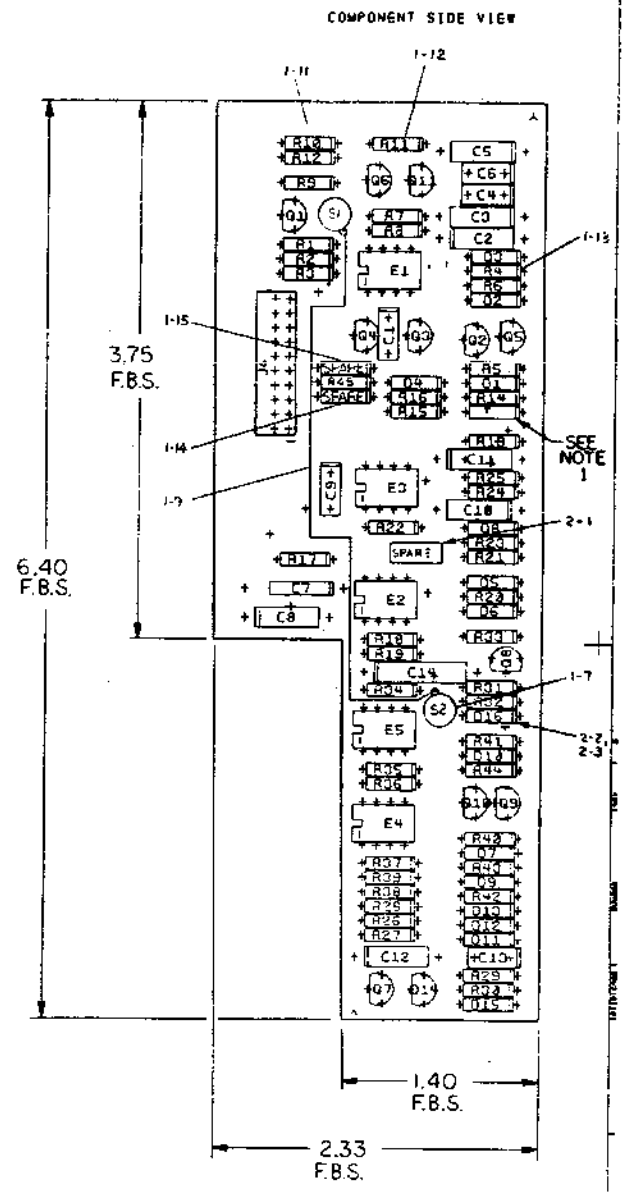
ECO #2

- COMPONENT DELETES SIDE 1:
- 2-1. C15 (P/N 1000021)
- 2-2. D16 (P/N 110048)
- COMPONENT ADDS SIDE 1:
- 2-3. D16 (ZENER BI-DIRECTIONAL P/N 1114913-00)

NOTES:

1. COMPONENT NOT INSERTED

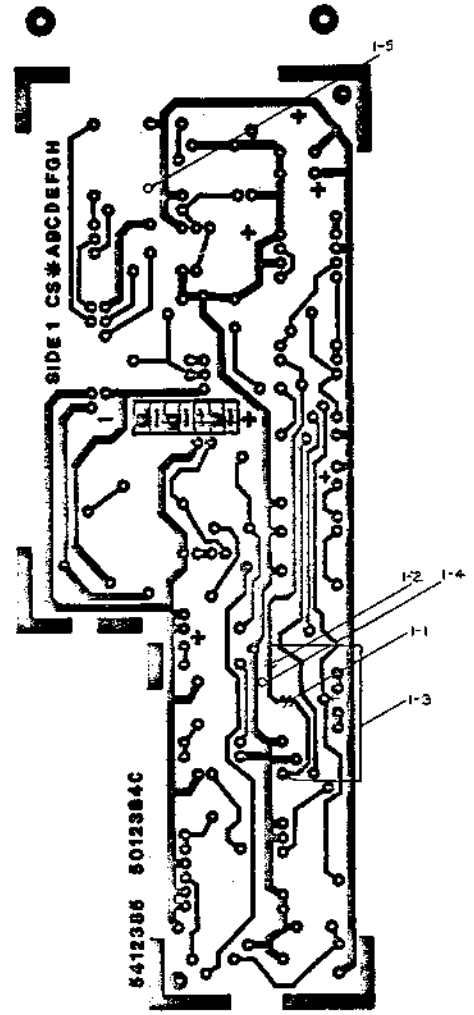
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02	0	11-25-74	P. POTTER		
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04	0	11-25-74	P. POTTER		
05	0	11-25-74	P. POTTER		
06	0	11-25-74	P. POTTER		
07	0	11-25-74	P. POTTER		
08	0	11-25-74	P. POTTER		
09	0	11-25-74	P. POTTER		
10	0	11-25-74	P. POTTER		



SIGNATURES	DATE	TITLE
DRW. F. GAZDARO	11-15-74	H785 CONTROL BD
CHK'D. F. SEIDMAN	11-15-74	
ENG. W. THOMAS	11-25-74	
PROJ. ENG. J. MERRILL	11-25-74	
PROD. P. POTTER	11-25-74	
SCALE 2/1		SIZE CODE NUMBER
SHT. 1 OF 3		0 UA 5412385-0-0 E
NEXT HIGHER ASSY. B-D0-5412385-0		

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DUA 5412385-0-0 2



8412385 8012384C

SIDE 1 CS#ABCDEF0H

REVISIONS

CHK	CHANGE NO	REV

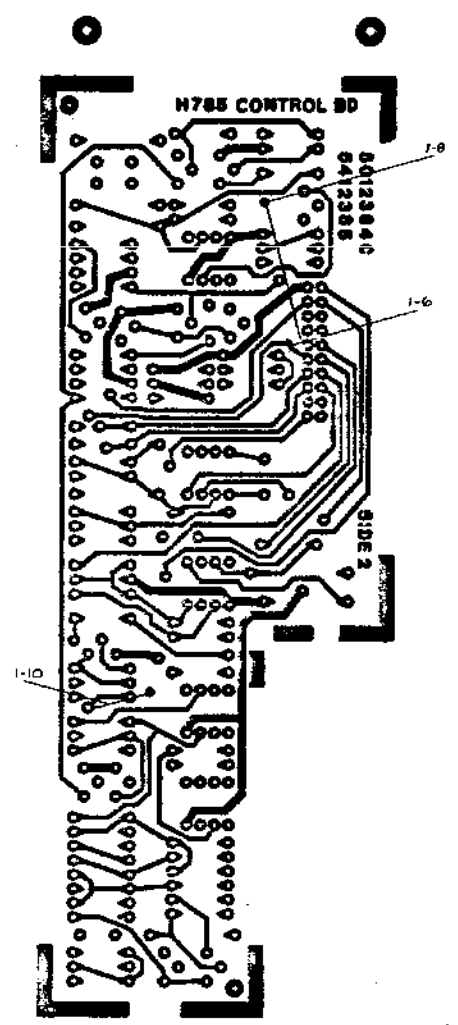
TITLE	DESIGNER	NUMBER	REV.
H785 CONTROL BD	DUA	5412385-0-0	E
SCALE 2/1	SHEET 2 OF 3	DATE	

DUA 5412385-0-0 E

498

3 0-0-5412385-0-0 2 1

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D
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D U A 5412385-0-0 E

REVISIONS		
CHK	CHANGE NO	REV

TITLE	H785 CONTROL BD	SIZE/CODE	D U A	NUMBER	5412385-0-0	REV.	E
SCALE	2/1	SHEET	3 OF 3	DIST			

499

LINE	ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
1	1	D-MD-5012384-0-0	5012384-00	5412385	1	
2	2		1001610-01	.01 MFD 100V OR 50V Z5U DISC/800PF MIN	4	C1,C4,C6,C13
3	3		1004813-00	10 MFD 20V 10% 150D S.TA (10-00)	1	C2
4	4		1001776-00	1 MFD 35V 10% 150D S.TA (10-00)	3	C3,C5,C11
5	5		1000061-00	8200.0 MMF 100V 10% 663UW MYLR (10-00)	1	C7
6	6		1005965-00	.47 MFD 35V 10% 150D C.TA (10-00)	2	C8,C12
7	7		1000009-00	33.0 MMF 100V 5%200PPM DM15S (10-00)	1	C9
8	8		1005306-00	6.8MFD 35V 10% 150D S.TA (10-00)	1	C14
9	9		1105275-00	D 672 TR= 15NS PIV= 60V SP	9	D1,D2,D3,D5,D6,D9,D10,D12,D13
10	10		1109988-00	1N 964B VZ= 13.0 5% .40W Y	1	D4
11	11		1102808-00	1N 752A VZ= 5.6 5% .40W P	2	D11,D15
12	12		1110968-00	2N 5062 SCR@100V I=.8A T092	1	D14
13	13		1110713-00	SZ710910 VZ= 5.1 2% M	1	D7
14	14		1114913-00	VZ= 18.0 10% 1W	1	D16
15	15		1300398-00	1.8 K 1/4W 5% CC (13-00)	2	R32,R38
16	16		1300479-00	10 K 1/4W 5% CC (13-00)	11	R1,R13,R18,R19,R20,R21,R28, CONT R31,R42-R44
17	17		1300229-00	100 1/4W 5% CC (13-00)	5	R3,R5,R25,R29,R45
18	18		1301322-00	180 1/4W 5% CC (13-00)	1	R4
19	19		1302177-00	47 K 1/4W 5% CC (13-00)	1	R6
20	20		1302394-00	30 K 1/4W 5% CC (13-00)	1	R7
21	21		1302091-00	330 K 1/4W 5% CC (13-00)	1	R8
22	22		1300365-00	1 K 1/4W 5% CC (13-00)	6	R2,R9,R12,R14,R37,R40
23	23		1300426-00	2.7 K 1/4W 5% CC (13-00)	1	R16
24	24		1302092-00	220 K 1/4W 5% CC (13-00)	1	R15
25	25		1301423-00	6.8 K 1/4W 5% CC (13-00)	1	R17
26	26		1302871-00	1.21 K 1/4W 1% RN55D-F 100PPM (13-00)	1	R35
27	27		1302955-00	750 1/4W 1% RN55D-F 100PPM (13-00)	1	R34
28	28		1303312-00	10.0 K 1/4W 1% RN55D-F 100PPM (13-00)	1	R36
29	29		1302466-00	100 K 1/4W 5% CC (13-00)	3	R22,R39,R41

REVISION HISTORY			VARIATIONS FOR THIS ASSY.		FIRST USED ON:		DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		
CHK	ECO NO	REV			MADE BY:	DATE:	TITLE		
			00		F.MALANSON	21-FEB-78	PARTS LIST		
W.H	00003	E			F.SEIDMAN	21-FEB-78	H785 CONTROL BOARD		
					J.MERCURI	21-FEB-78			
					R.B.KING	21-FEB-78			
					J.MERCURI	21-FEB-78	ASSY.NO.: D-UA-5412385-0-0		EDIT# 4

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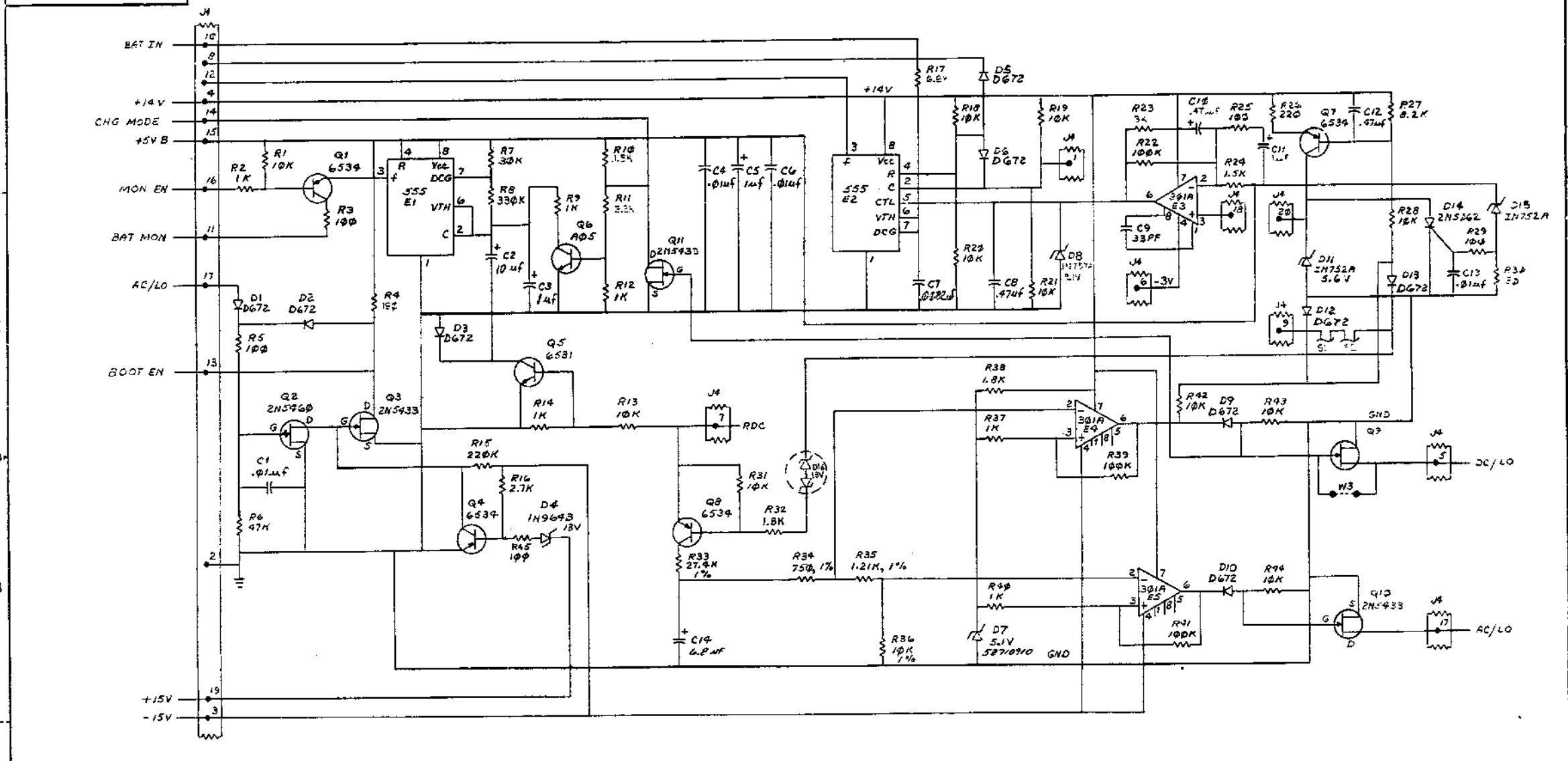
500

LINE	ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
30	30		1300271-00	220 1/4W 5% CC	(13-00)	1 R26
31	31		1303179-00	8.2 K 1/4W 5% CC	(13-00)	1 R27
32	32		1302751-00	30 1/4W 5% CC	(13-00)	1 R30
33	33		1309417-00	27.4 K 1/4W 1% RN55D-F 100PPM	(13-00)	1 R33
34	34		1503409-00	DEC6534D PNP 310MW SI 40 90 P		4 Q1,Q4,Q7,Q8
35	35		1510233-00	2N 5460 FET 310MW SIP CHNNL		1 Q2
36	36		1511686-00	DEC5433 FET N 350MW 10 25 1A 20U		4 Q3,Q9,Q10,Q11
37	37		1509338-00	DEC6531B NPN 310MW SI 40 90 P		1 Q5
38	38		1510705-00	XA 05 NPN 500MW SI 60 50 P		1 Q6
39	39		1911944-00	555CN TIMER,FUNCT.BLOCK		2 E1,E2
40	40		1910282-00	301AN OP AMP		3 E3,E4,E5
41	41		1300391-00	1.5 K 1/4W 5% CC	(13-00)	2 R10,R24
42	42		1213335-00	HEADER 20POS RT ANGLE FOR 12-13334		1 J4
43	43		1300439-00	3.3 K 1/4W 5% CC	(13-00)	1 R11
44	44		1212416-02	THERMOSTAT,08160,N/C,SPST,AUTO RESET		2 S1,S2
45	45		1300432-00	3 K 1/4W 5% CC	(13-00)	1 R23
46	46		1109990-00	1N 757A VZ= 9.1 5% .40W P		1 D8
47	47		1005965-00	.47 MFD 35V 10% 150D S.TA	(10-00)	1 C10
48	48		9009157-00	ADHESIVE, PERMABOND #101		A/R
49	49		9105740-55	WIRE(WRAP)30AWG UL1423	(91-00)	A/R

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE PARTS LIST H785 CONTROL BOARD	SIZE K	CODE PL	DOCUMENT NUMBER 5412385-0-0	REV E
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501

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NOTES:
 1. NOTES 151 OPERATION REMAINS JUMPER W/2.
 2. NOTES 152 OPERATION REMAINS JUMPER W/1.
 3. IS AN ENGINEERING OPTION TO BE DETERMINED AT A LATER DATE.

REV.	DATE	BY	CHKD.
1	11/15/77	J. J. ...	J. J. ...
2	11/15/77	J. J. ...	J. J. ...
3	11/15/77	J. J. ...	J. J. ...
4	11/15/77	J. J. ...	J. J. ...
5	11/15/77	J. J. ...	J. J. ...
6	11/15/77	J. J. ...	J. J. ...
7	11/15/77	J. J. ...	J. J. ...
8	11/15/77	J. J. ...	J. J. ...

DRN.	DATE	FIRST USED ON	REV.
CHK'D	...	...	...
ENL.	...	...	...
PRD. ENG.	...	...	...
NEXT HIGHER ASSY.	...	...	...
SCALE	...	...	...
SHEET	1 OF 1	DIST.	...

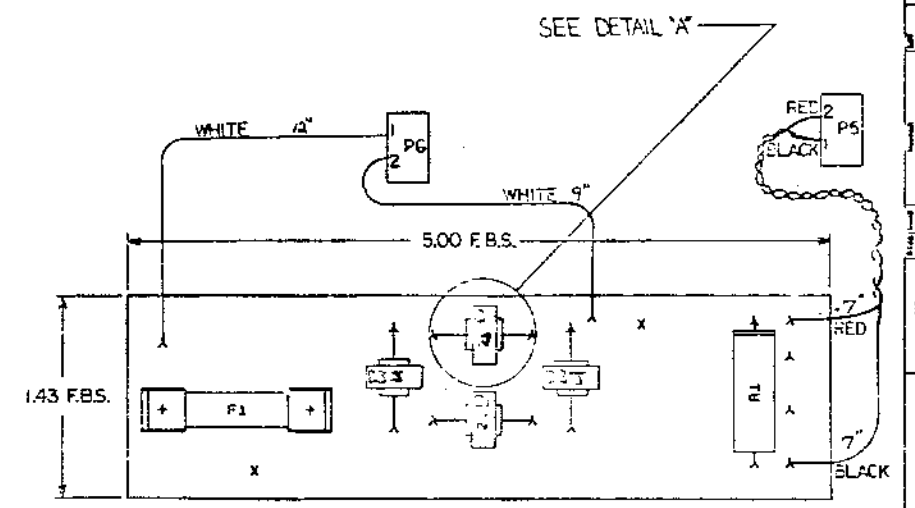
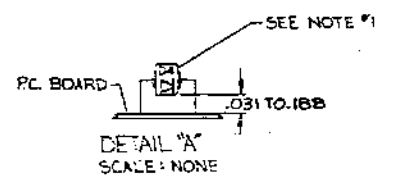
TITLE: H785 CONTROL BOARD
 SIZE CODE: D
 NUMBER: 5412385-0-1
 REV. E

502

8 7 6 5 4 3 2 1

COMPONENT SIDE VIEW

NOTES:
 1. DIODES D1 THRU D4 MUST BE RAISED FROM THE P.C. BOARD .031 TO .188



NOTES:

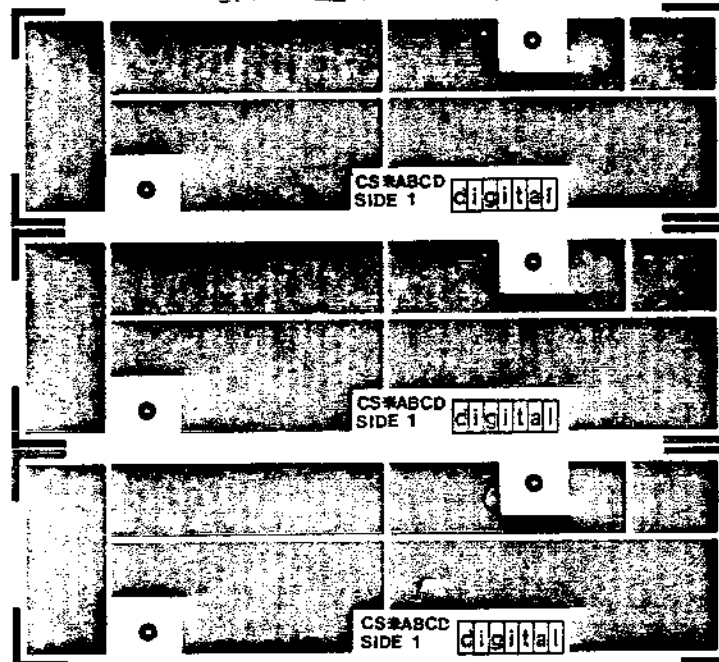
REV	DATE	BY	CHKD

SIGNATURES	DATE	digital
TITLE	INPUT REGISTER BOARD	

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8 7 6 5 4 3 2 1

50000004 00104100 5412411



D
C
B
A

REVISIONS		
CHK	CHANGE NO	REV

TITLE	INPUT RECTIFIER BOARD	REV	D-1A	QUANTITY	5412411-0-0	REV	F
SCALE	2:1	SHEET	2 OF 3	DIST			

50A

8

7

6

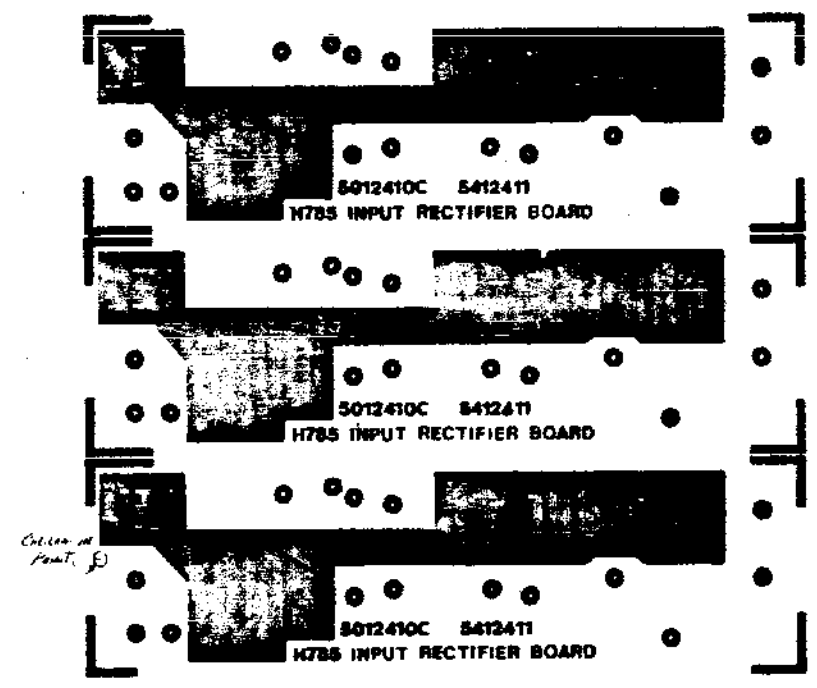
5

4

3

3 0-0-11215 WJD 2

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REVISIONS		
CHG	CHANGE NO	DATE

TITLE	INPUT RECTIFIER BOARD	DESIGNER	DJA	NUMBER	5412411-00	REV	E
SCALE	2/1	SHEET	3 OF 3	DIST			

505

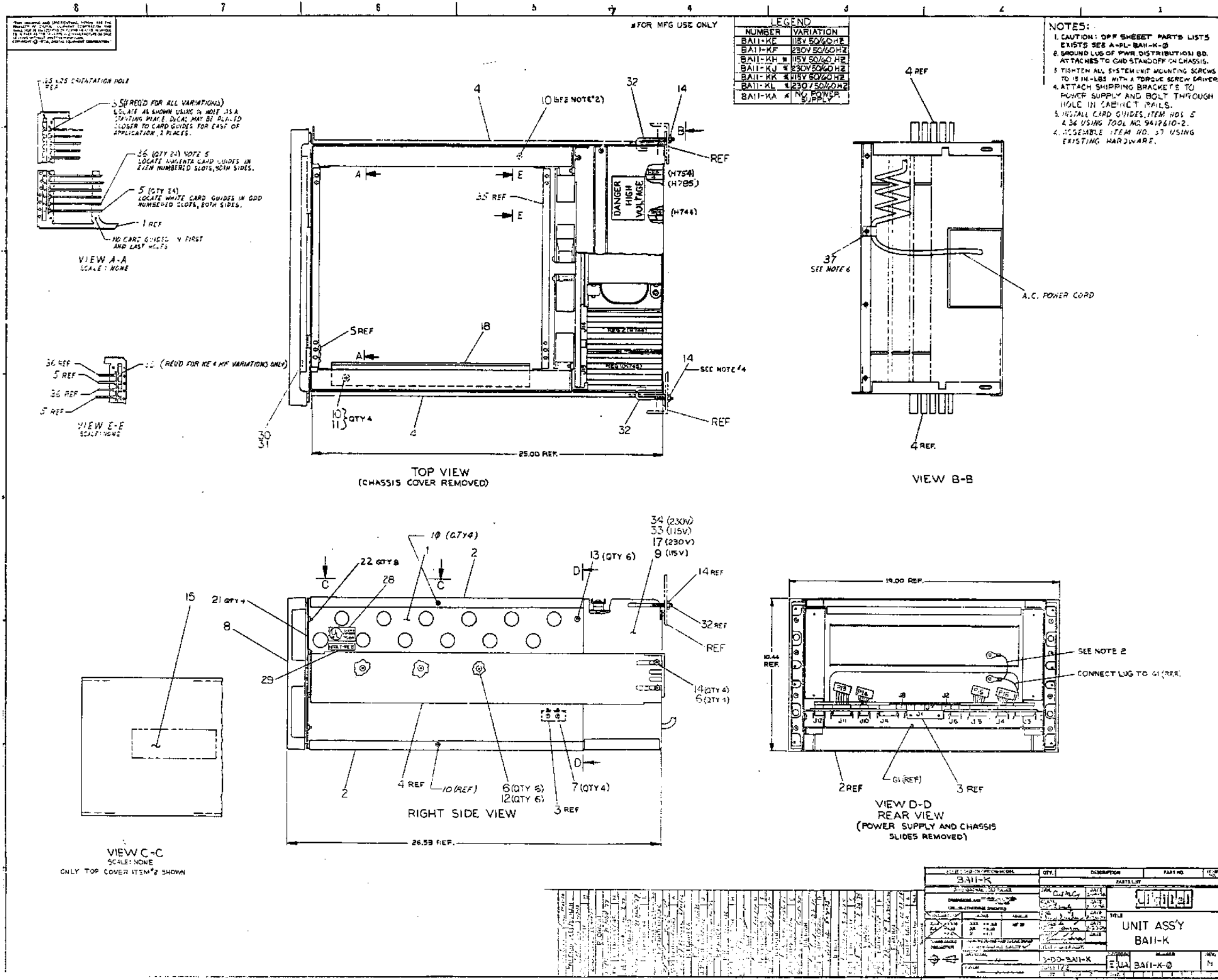
LINE	ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
1	1	D-MD-5012410-0-0	5012410-00	5412411	1	
2	2		1110615-00	MR 752 PIV=200 I=22A A264 SM	4	D1-D4
3	3		1210821-02	MATE-N-LOK 2PIN,HOUSING,SKT	2	P5,P6
4	4		1209379-01	MATE-N-LOK PIN 20-14AWG LOOSE	4	
5	5		1302609-00	4.7 K 2W 10% CC (13-00	1	R1
6	6		9009000-00	EYELET, ROLLED FLANGE, .121 OD X .156 LG	2	
7	7		9008390-00	FUSE, REG BLOW, 10.000A, 250V, CERAMIC	1	
8	8		9007203-00	CLIP, FUSE, WITH STOP, SCREW MOUNTED	2	
9	9		9107360-99	WIRE,STRND,18AWG,IPVC UL1429 (91-00 A/R		
10	10		9107430-02	WIRE,STRND,18AWG,IPVC (UL1429) (91-00 A/R		

11 NOTE: MS60954 ETCH REV C CS REV B

REVISION HISTORY			VARIATIONS FOR THIS ASSY.		FIRST USED ON:		DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			
CHK	ECO NO	REV			MADE BY:	DATE:	TITLE			
	00003	E	00		D. BILODEAU	08-MAR-78	PARTS LIST			
					F. GAROFALO	08-MAR-78	INPUT RECTIFIER BOARD			
					J. MERCURI	08-MAR-78	SIZE	CODE	DOCUMENT NUMBER	REV
					R. B. KING	08-MAR-78	K	PL	5412411-0-0	E
					J. MERCURI	08-MAR-78	ASSY. NO.: D-UA-5412411-0-0			EDIT
										3

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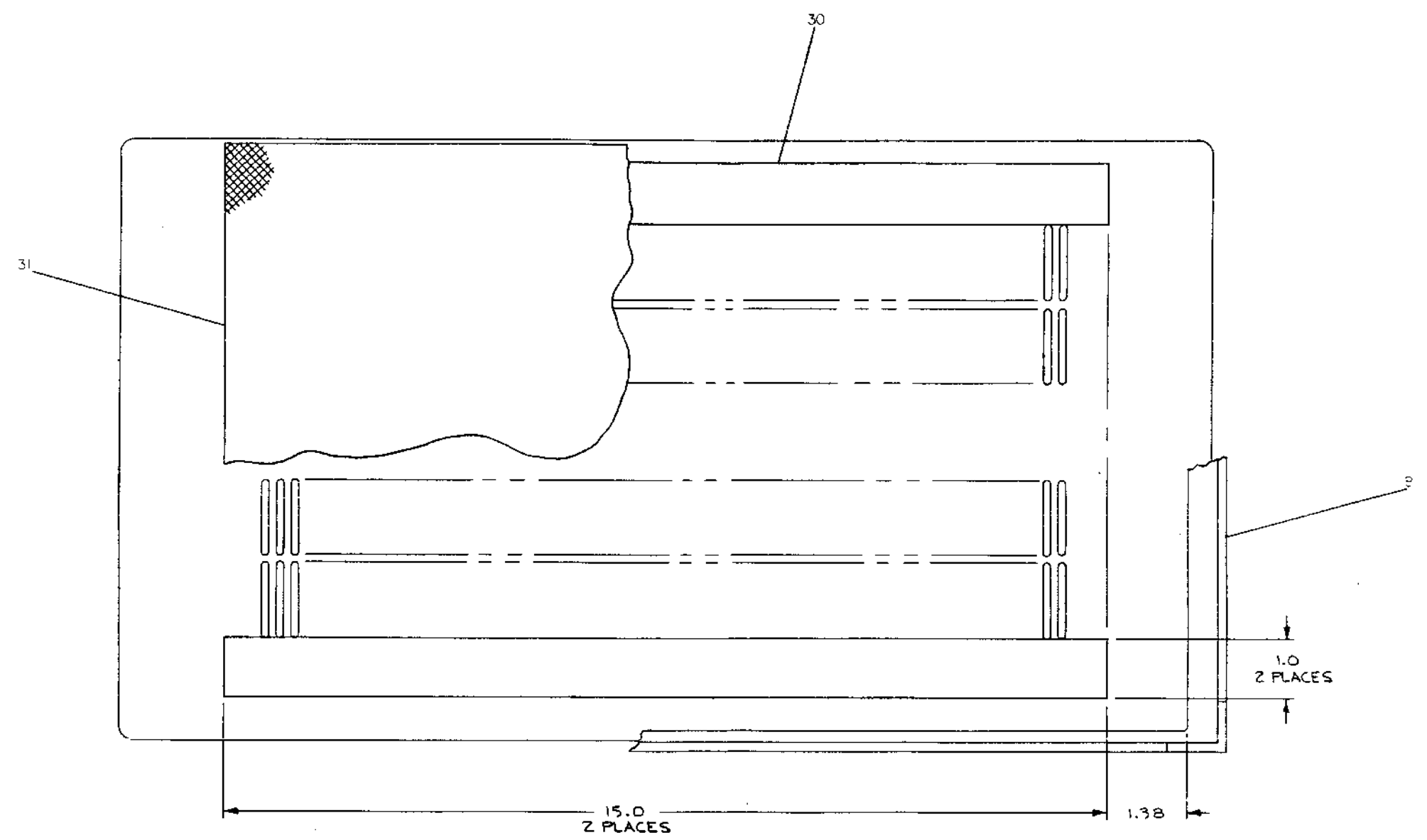
506



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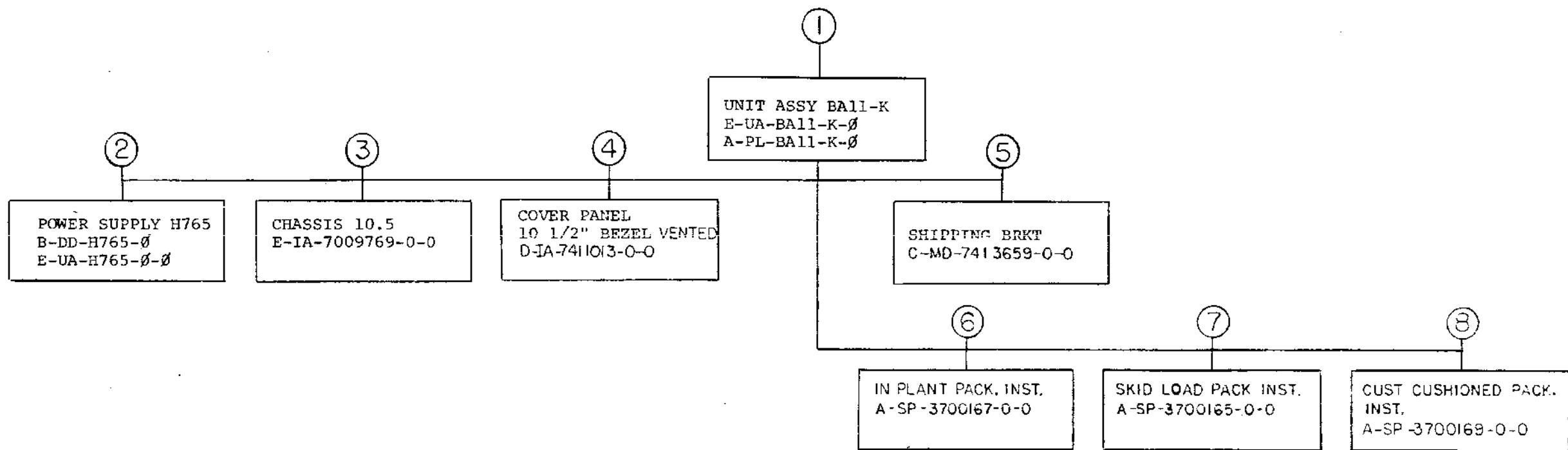


REAR VIEW

REV. 1

DATE	BY	CHKD	APP'D	REV.
				N
TITLE		DRAWN		REV.
UNIT ASSY BATT-0		EUA		N
SCALE	SHEET	OF	DWG.	

509



TITLE	SIZE	CODE	NUMBER	REV
DRAWING DIRECTORY BALL-K	8	DD	BALL-K	M

511

CUSTOMER PRINT SET		ELECTRICAL					CUSTOMER PRINT SET		ELECTRICAL								
		MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE			MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
1			1	E-UA-BALL-K-Ø	M	2	UNIT ASSY BALL-K										
X				A-PL-BALL-K-Ø	M	2	UNIT ASSY BALL-K PL										
X				A-SP-BALL-K-6		8	BALL-K BASIC CHECKOUT AND ACCEPTANCE PROCEDURE										
				A-SP-BALL-K-7		10	BALL-K BASIC ASSEMBLY PROCEDURE										
C			2	B-DD-H765-Ø	✳	5	POWER SUPPLY H765										

CUSTOMER PRINT SET CODES	X = PRINT OF DOCUMENT INCLUDED IN PRINT SET C = INCLUDES ALL PRINTS INDICATED ON DOCUMENT S = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED	TITLE	DRAWING DIRECTORY BALL-K	SHEET 3 OF 4	SIZE	CODE	NUMBER	REV
					B	DD	BALL-K	M

CUSTOMER PRINT SET		MECHANICAL					CUSTOMER PRINT SET		MECHANICAL								
	MFG SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE		MFG SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE		
		1	E-UA-BALL-K-Ø	M	2	UNIT ASSY BALL-K			X	6	A-SP-3700167-0-0	-	3	IN PLANT PACK. INST.			
			A-PL-BALL-K-Ø	M	2	UNIT ASSY BALL-K PL					A-PS-9905650-0-0	-	2	REGULAR SLOTTED CARTON			
			D-IA-7009768-0-0		1	COVER, CHASSIS					A-PS-9905335-0-0	-	2	BEZEL PROTECTOR			
			D-PS-1211825-0-0		3	SLIDE, 3 POS TILT					A-PS-9905644-0-0	-	2	REAR PROTECTOR			
			D-MD-7412184-0-0		1	CABLE, TROUGH CHASSIS					A-PS-9905323-0-0	A	2	SIDE PROTECTOR			
X			D-UA-BC11A-1Ø-Ø		1	UNIBUS, CABLE, 10 FT					A-PS-9905129-0-0	A	4	POLY BAG 20 x 13 x 40in 1-1/2 mil.			
X			B-CS-M91S-Ø-1	#	1	BUS CONNECTOR M91S											
X			B-CS-M929-0-1	#	1	BUS CONNECTOR M929											
			D-PS-1212405-00		1	CARD GUIDE			X	7	A-SP-3700165-0-0	-	4	SKID LOAD PACK. INST.			
			A-DC-5309414-0		1	DECAL UL					A-PS-1210568-0-0	-	2	CUSHIONED SKID			
			A-DC-5309413-0		1	DECAL NFPA					A-PS-9905445-0-0	-	2	HALF OVERLAP SLOTTED CARTON (TOP)			
			A-PS-3613281-0-0		1	DECAL					A-PS-9905419-0-0	-	2	FLANGED TUBE (BOTTOM)			
									X	8	A-SP-3700169-0-0	-	2	CUST. CUSHIONED PACK. INST.			
											A-PS-9905645-0-0	-	2	FULL TELESCOPE CAP			
											A-PS-9905642-0-0	-	2	FOAM PAD			
											A-PS-9905643-0-0	-	2	FOAM WITH CORRUGATED SIDE WALL ASSEMBLY			
		2	B-DD-H765-Ø		5	DWG DIRECTORY H765											
			E-UA-H765-Ø-Ø		2	POWER SUPPLY H765											
		3	E-IA-7009769-0-0		1	CHASSIS, 10.5											
			E-IA-7411703-0-0		1	CHASSIS, FRONT											
			E-IA-7411707-0-0		1	CHASSIS, SIDE											
			D-MD-7411706-0-0		1	BRACKET, HAT											
			D-MD-7411705-0-0		1	BRACKET, CARD GUIDE											
			C-MD-7412185-0-0		1	PLATE CABLE											
		4	D-IA-7411703-0-0		1	COVER PANEL 10 1/2 FEZEL											
		5	C-MD-7413659-0-0		1	SHIPPING BRKT											
CUSTOMER PRINT SET CODES	X = PRINT OF DOCUMENT INCLUDED IN PRINT SET C = INCLUDES ALL PRINTS INDICATED ON DOCUMENT S = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED						TITLE	DRAWING DIRECTORY BALL-K		SIZE CODE	3 DD		NUMBER	BALL-K		PAGE	M
SHEET 4 OF 4																	

DRB 108

DEC 16 11 25 1967 ZB-R977

513

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY BILL BLODGET
DATE 6/26/74
ENG P. E. JANSON
DATE 8-23-74
CHECKED D. HEALY
DATE 6/27/74
PROD W. LUCAS
DATE 8-23-74
SECTION 1
ISSUED SECT. 1

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION
1	E-1A-7009769-0-0	CHASSIS 10-5	BALL-K 1
2	D-1A-7009768-0-0	COVER, CHASSIS	BALL-K 1
3	D-CS-541686-C-1	POWER DISTRIBUTION BOARD	REF REF REF REF REF
4	D-PS-121185-0-0	SLIDE, 3 POS TILT	1 pr 1 pr
5	D-PS-1212405-0	CARD GUIDE, SINGLE	24 24 24 24 24 24
6	9006071-3	SCREW, PHL TRUSS HD #10-32 X .38	10 10
7	9006020-2	SCREW, PHL FLAT HD #6-32 X .25	4 4 4 4 4 4
8	D-1A-7411013-0-0	COVER, PANEL 10 1/2 BEZEL (SNAP-ON VENTED)	1 1
9	B-DD-H765-A	POWER SUPPLY H765-A 115V 50/60 HZ	1 1
10	9006020-3	SCREW, PHL. TRUSS HD #6-32 X .25	9 9 5 5 5 5 5 5
11	9006035	WASHER-INTERNAL-TOOTH LOCK #6	4 4 4 4
12	9007651	WASHER EXTERNAL TOOTH #10	6 6
13	9009599	SCREW, PHL FLAT HD (SPECIAL)	6 6 6 6 6 6
14	9006565	NUT, KEPS, #10-32	6 6
15	DIC-3-(374)-1825-N1174	STICKER, "CONFIGURATION"	1 1
16	D-1A-7010059-0-0	SHIPPING-BRKT-ASSY	1 1
17	B-DD-H765-B	POWER SUPPLY H765-B, 230V 50/60 HZ	1 1
18	D-MD-7412184-0-0	CABLE TROUGH CHASSIS	1 1
19	9006498-1	SCR, PH. HD SELF TAP #6-32 X .25	1 1 5 5
20	D-UA-BC11A-10-0	UNIBUS CABLE, 10 FT	1 1
21	1209224	LATCH MOLDING	4 4
22	9008007-2	SCR PH HD FLT #10-32 X .25	8 8

TITLE UNIT ASSY BALL-K
SIZE CODE A PL
ASSY NO. E-UA-BALL-K-0
SHEET 1 OF 2
REV. ECO NO. N
BALL-K-0
00016

DEC FORM DEC 16 (325) 1031 N870
DRA 110

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY BILL BLODGET
DATE 6/26/74
ENG P. E. JANSON
DATE 8-23-74
CHECKED D. HEALY
DATE 6/27/74
PROD W. LUCAS
DATE 8-23-74
SECTION 1
ISSUED SECT. 1

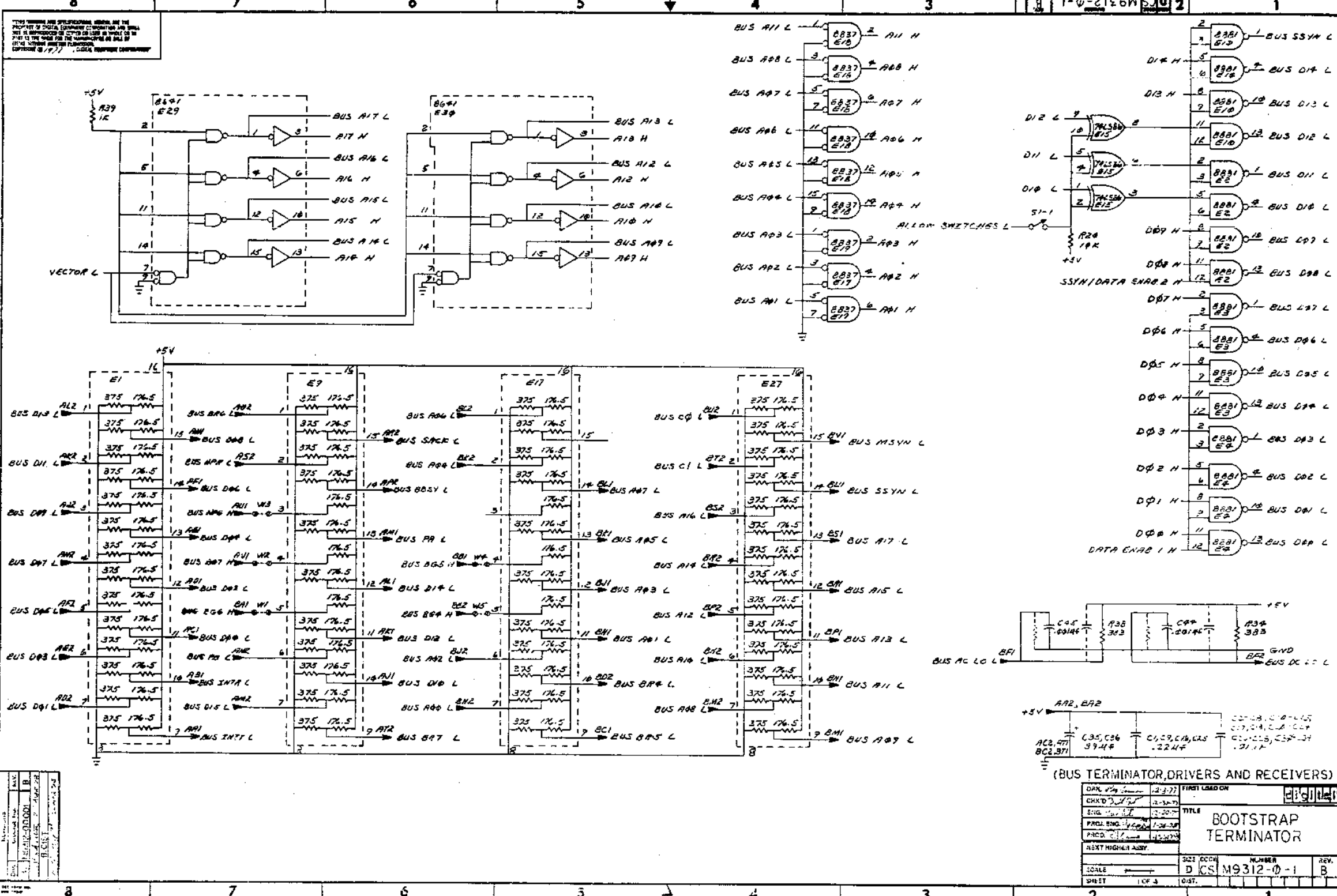
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION
23	A-SP-3700167-0-0	IN PLANT PACK. INST.	BALL-K 1
24	A-SP-3700165-0-0	SKID LOAD PACK INST.	BALL-K 1
25	A-SP-3700169-0-0	CUST. CUSHIONED PACK. INST.	BALL-K 1
26	A-SP-BALL-K-6	BALL-K BASIC CHECKOUT AND ACCEPTANCE PROCEDURE	REF REF REF REF REF
27	A-SP-BALL-K-7	BALL-K BASIC ASSEMBLY PROCEDURE	REF REF REF REF REF
28	A-DC-5309414-0	DECAL, UL	1 1
29	A-DC-5309413-0	DECAL, NFPA	1 1
30	1211346-02	TAPE	1 1
31	1211255-0-0	PRE FILTER	2 2
32	C-MD-7413659-0-0	SHIPPING BRACKET	1 1
33	B-DD-H765-C	POWER SUPPLY H765-C 115VAC 50/60HZ NO H754	1 1
34	B-DD-H765-D	POWER SUPPLY H765-D 230VAC 50/60HZ NO H754	1 1
35	A-PS-3613281-00	DECAL, ADHESIVE BACKED, BALL-K	2 2 1 1 1 1 1 1
36	D-PS-1212405-1	CARD GUIDE, SINGLE	24 24 24 24 24 24 24 24
37	9007086-00	CLAMP, CABLE	1 1 1 1 1 1

TITLE UNIT ASSY BALL-K
SIZE CODE A PL
ASSY NO. E-UA-BALL-K-0
SHEET 2 OF 2
REV. ECO NO. N
BALL-K-0

DEC FORM DEC 16 (325) 1031 N870
DRA 110

514

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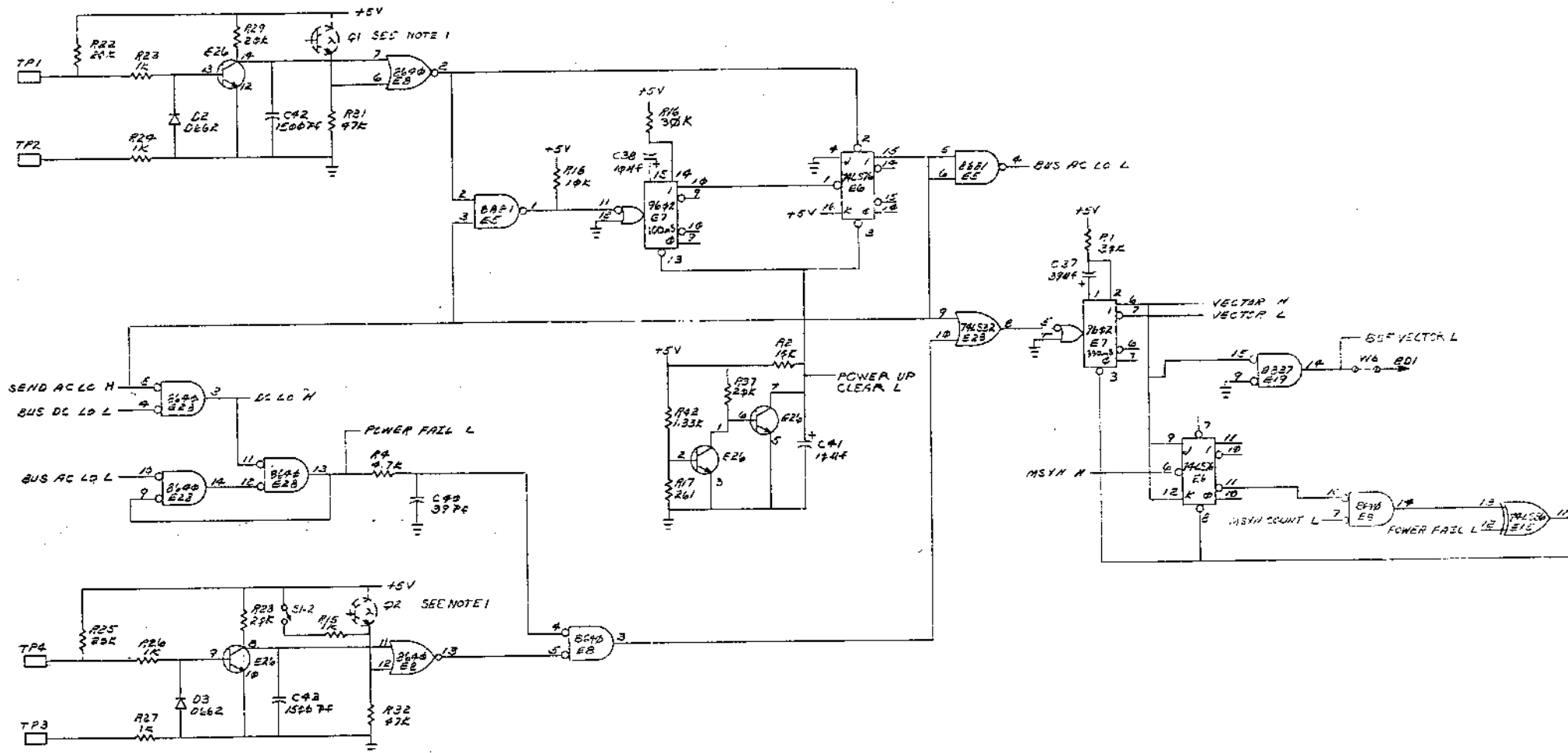


REV	DATE	BY	CHKD
1	10-10-77
2	10-10-77
3	10-10-77
4	10-10-77
5	10-10-77
6	10-10-77
7	10-10-77
8	10-10-77	...	...

(BUS TERMINATOR, DRIVERS AND RECEIVERS)

DATE	10-10-77	FIRST USED ON	...
CHKD	...	TITLE	BOOTSTRAP TERMINATOR
ENG	...	...	...
PROJ. ENG.
PROJ. MGR.
REV. HIGHER ASSY.
SCALE	...	SHEET	1 OF 3
SHEET	1 OF 3	NO. OF SHEETS	3

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NOTES: 1. PHOTO TRANSISTORS Q1 AND Q2 DO NOT APPEAR ON THE PARTS LIST. THEY ARE INTENDED FOR FUTURE APPLICATIONS.

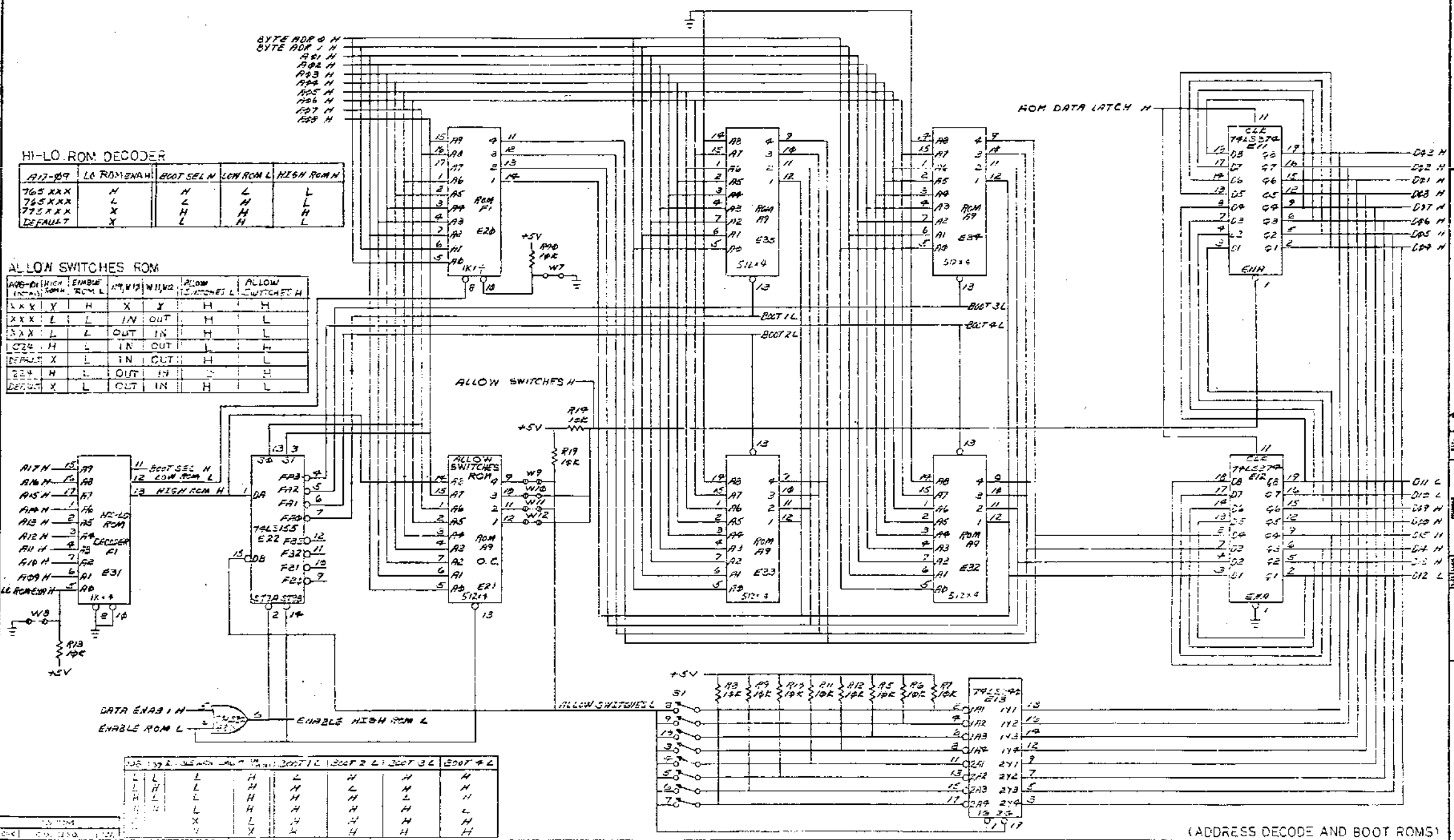
REVISIONS		
CHK	DESCRIPTION	BY

(SWITCH FILTERS AND AC LO GENERATION)

TITLE	BOOTSTRAP TERMINATOR	DWG. NO.	DCS M9312-0-1	NUMBER	5	REV.	5
SCALE		SHEET	2 OF 4	DIST.			

8 7 6 5 4 3 2 1

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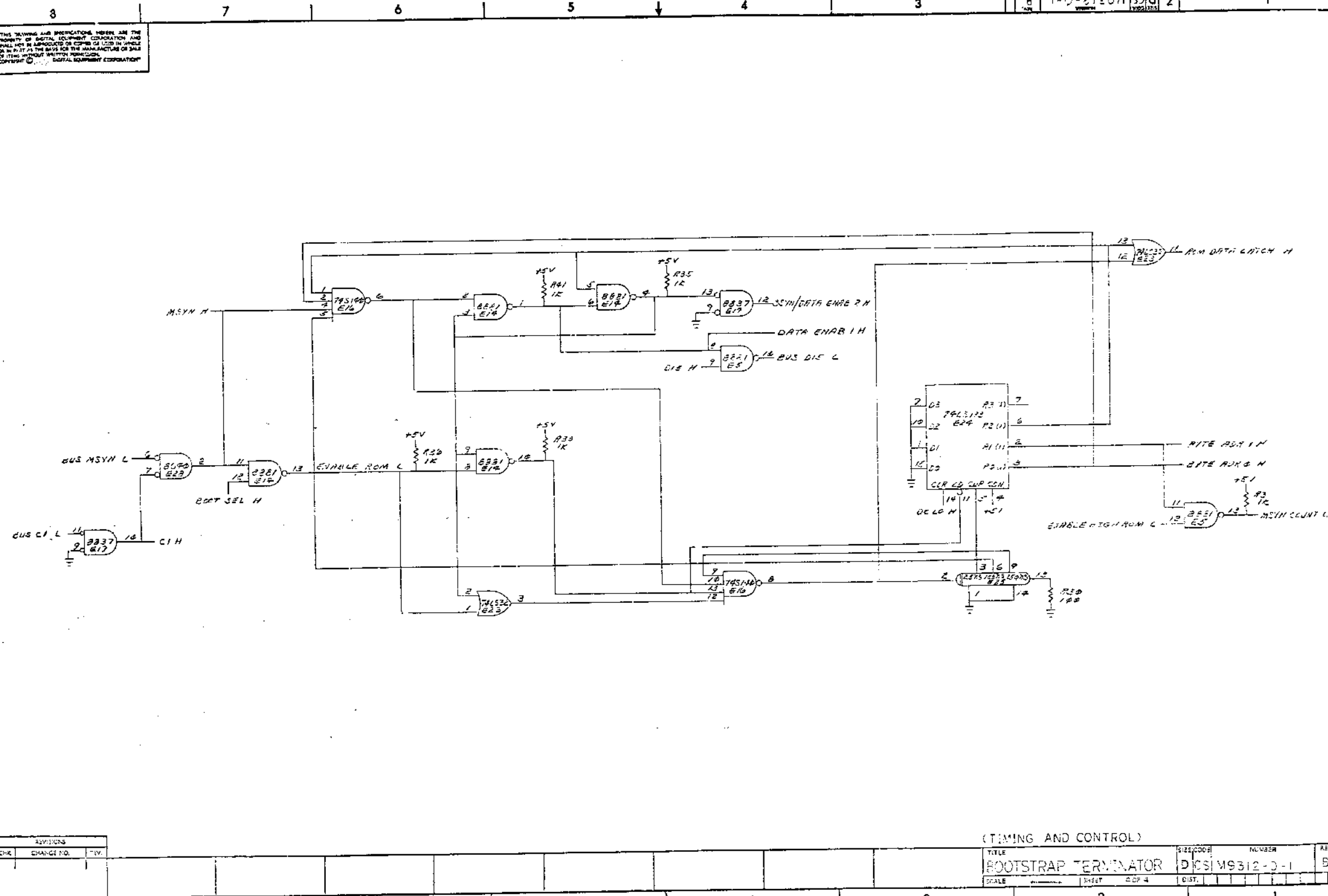
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002	L	L	L	L
003	L	L	L	L
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098	L	L	L	L
099	L	L	L	L
100	L	L	L	L

(ADDRESS DECODE AND BOOT ROMS)

TITLE: BOOTSTRAP TERMINATOR
 NUMBER: DCS M9312-2-1
 SCALE: 1:1
 SHEET: 3 OF 3
 DIST: E

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DIGITAL EQUIPMENT CORPORATION
1-0-2196750-1



REV	DESCRIPTION	DATE

TITLE		SIZE/COPIES	NUMBER	REV.
BOOTSTRAP TERMINATOR		DIGSI M9312-C-1		B
SCALE	SHEET	OF 4	DIST.	