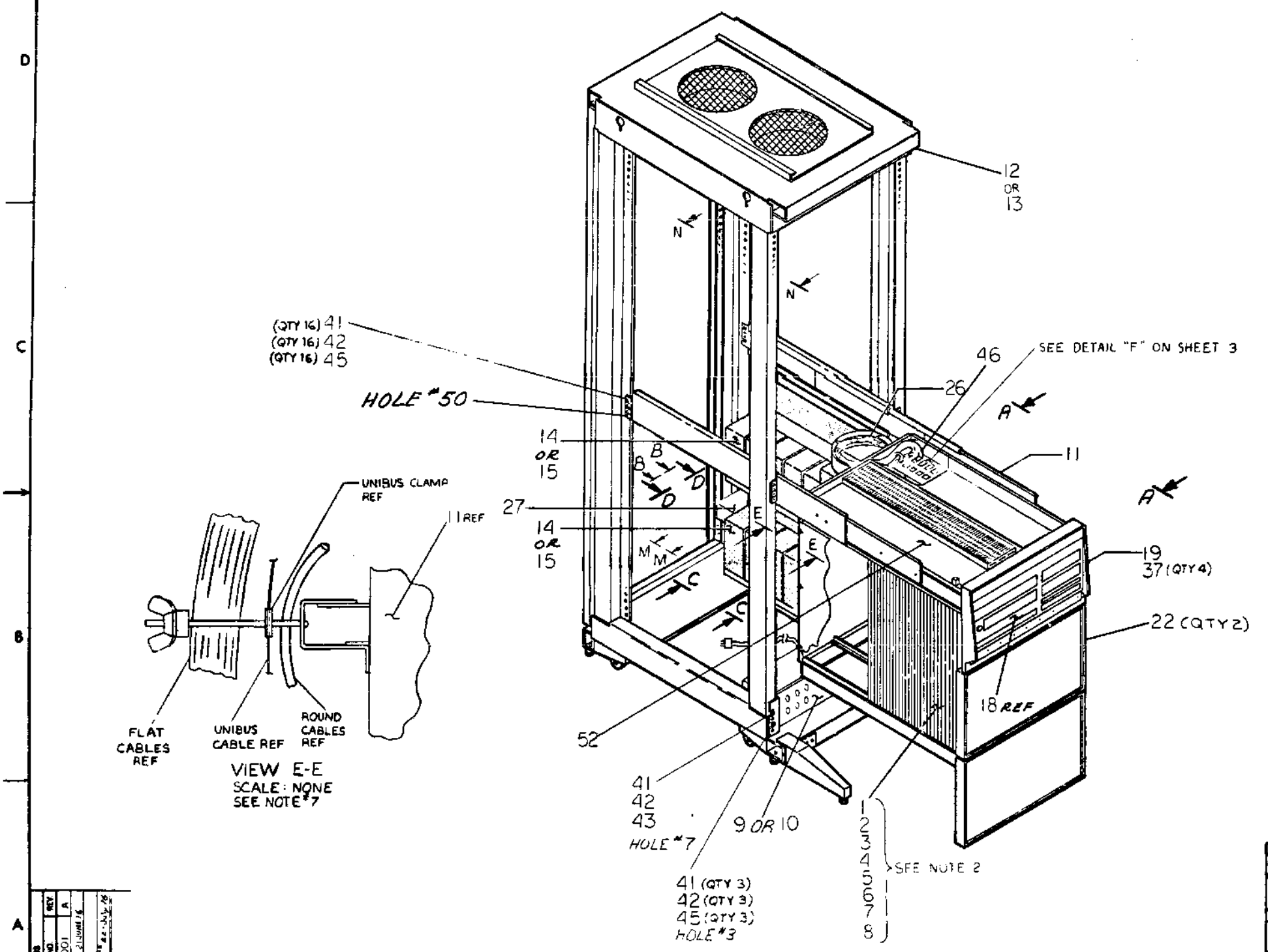


* OPTION

TITLE	SIZE	CODE	NUMBER	REV
BASIC ASSY PDP11/55	B	DD	11/55-0	A
SHEET 2 OF 6				

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0-0-55/11/55-0-0



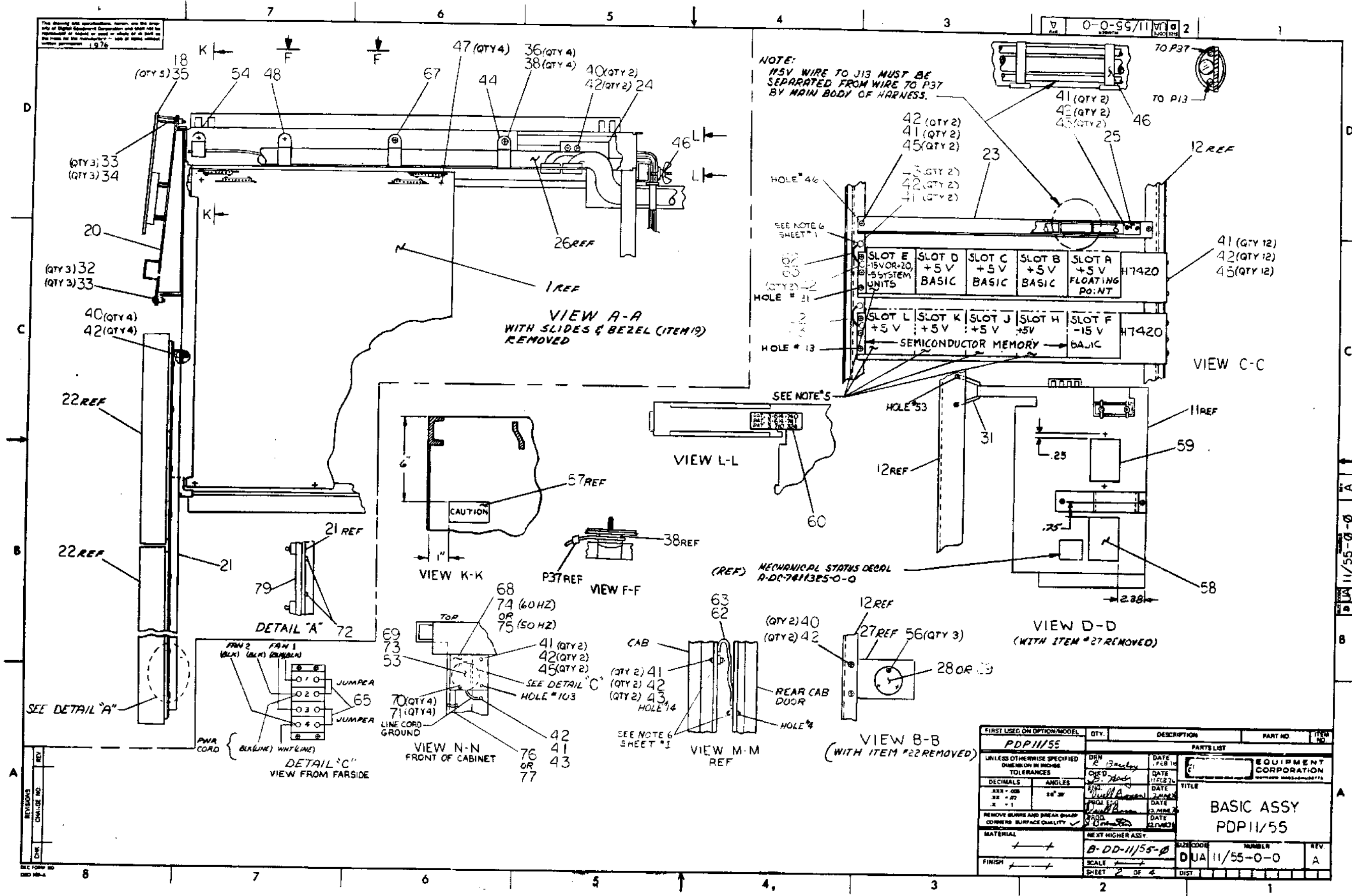
- NOTES:**
1. IN SYSTEMS CONFIGURATION, SEPARATE PARALLEL BC11-A UNIBUS CABLES WITH .12 IN. GRAY FOAM TAPE DEC #9006951.
 2. ITEM'S # 2 THRU # 8 NOT SHOWN.
 3. USE CABLE GUIDE (PIN 1212064) WHERE NECESSARY.
 4. THE UPPER H7420 TO BE PLUGGED INTO THE SWITCHED CIRCUIT 2, AND THE LOWER H7420 TO BE PLUGGED INTO THE UNSWITCHED CIRCUIT 1. THE CABINET FANS MUST BE PLUGGED INTO UNSWITCHED CIRCUIT 1. THE REMAINING LOADS ARE TO BE BALANCED BETWEEN CIRCUIT 1 AND CIRCUIT 2 SELECTING SWITCHED OR UNSWITCHED AS APPROPRIATE.
 5. ALL LOOSE CONNECTORS ON THE MAIN-POWER HARNESS (PIN 7009540) WHICH ARE NOT IN USE DUE TO THE LACK OF ONE OR MORE REGULATORS, ARE TO BE INSERTED INTO AN 8 PIN MATE-N-LOCK CONNECTOR, ITEM #66, AND THE CONNECTOR IS TO BE SECURED TO THE H7420 POWER SUPPLY USING ITEM'S #64 & #39 OR IN THE CASE OF EXTRA PLUGS FOR THE +20V REGULATORS, SECURE LOOSE PLUGS TO THE POWER HARNESS USING ITEM #46.
 6. STRIPE PAINT 70M AROUND MTG HOLE INDICATED IN CAB. FRIGHT-IN PLACES FOR MTG ITEM #62 GROUND STRAPS.
 7. WHEN MTG CABLES IN THE CABLE CLAMP THEY SHALL BE MTD AGAINST CLAMP WALL IN THIS ORDER ONLY. ROUND CABLES FIRST, UNIBUS CABLES SECOND & FLAT CABLES LAST. ANY DEVIATION COULD CAUSE FRACTURE OF UNIBUS CABLE. (SEE VIEW E-E).

REV	DATE	BY	CHKD	DESCRIPTION
1	11/25/55	DDOOJ	A	REVISED TO ACCOMMODATE CHANGES TO DRAWING 11/25/55
2	11/25/55	BOALEN		REVISED TO ACCOMMODATE CHANGES TO DRAWING 11/25/55

FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO.	ITEM NO.
PDP11/55				
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES				
DECIMALS	ANGLES	TITLE		
±.005	±0°30'	BASIC ASSY		
±.010		PDP11/55		
±.015		MATERIAL		
±.020		SEE PARTS LIST		
±.030		FINISH		
NEXT HIGHER ASSY		SIZE/COORD	NUMBER	REV
B-00-11/55-0		DJA	11/55-0-0	A
SCALE		SHEET		
1 OF 4		DIST		

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0-0-99/11/55-0-0



NOTE:
115V WIRE TO J13 MUST BE SEPARATED FROM WIRE TO P37 BY MAIN BODY OF HARNESS.

SLOT E -15V OR -20V SYSTEM UNITS
SLOT D +5V BASIC
SLOT C +5V BASIC
SLOT B +5V BASIC
SLOT A +5V FLOATING POINT

SLOT L +5V
SLOT K +5V
SLOT J +5V
SLOT H +5V
SLOT F -15V BASIC

SEMICONDUCTOR MEMORY

(REF) MECHANICAL STATUS DECAL
R-DC-7411325-0-0

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP11/55				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES				
DECIMALS	ANGLES	TOLERANCES		
XXX - .005	XX - .01	X - .01		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL				
NEXT HIGHER ASSY.				
FINISH				
PARTS LIST				
DRN R. Barclay		DATE FEB 1974	EQUIPMENT CORPORATION	
CHK'D B. Hady		DATE 11/25/74	TITLE	
APP'D [Signature]		DATE 3/19/75	BASIC ASSY	
PROF'D [Signature]		DATE 3/19/75	PDP11/55	
MATERIAL		DATE 3/19/75	SIZE CODE	
NEXT HIGHER ASSY.		DATE 3/19/75	NUMBER	
B-DD-11/55-0		SCALE 1"=1"	DUA 11/55-0-0	
SHEET 2 OF 4		DIST		REV. A

REV.	CHG.	DATE	BY

DUA 11/55-0-0

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WIRE TABLE #1		
ITEM NO.	FROM HARNESS CONNECTION	TO CONNECTION
26	P1	J1
	P2	J2
	P3	J3
	P4	J4
	P5	J5
	P6	J6
	P7	J7
	P8	J8
	P9	J9
	P10	J10
	P11	J11
	P12	J12
	P13	J13
	P14	J14
	P15	J15
	P16	J16
	P17	J17
	P18	J18
	P19	J19
	P20	J20
	P21	J21 (E-H745)
	P22	J22
	P23	J23
	P24	J24
	P25	J25
	P26	J26
	P27	J27
	P28	J28
	P29	J29
	P30	J30
	P31	J31
	P32	J32
	P33	J33
	P34	ELAPSED TIME METER
	P35	ELAPSED TIME METER
	P36	J36
	P37	GND CH
	P38	GND CH
	P39	GND CH
26	P40	J40 (E-H754)

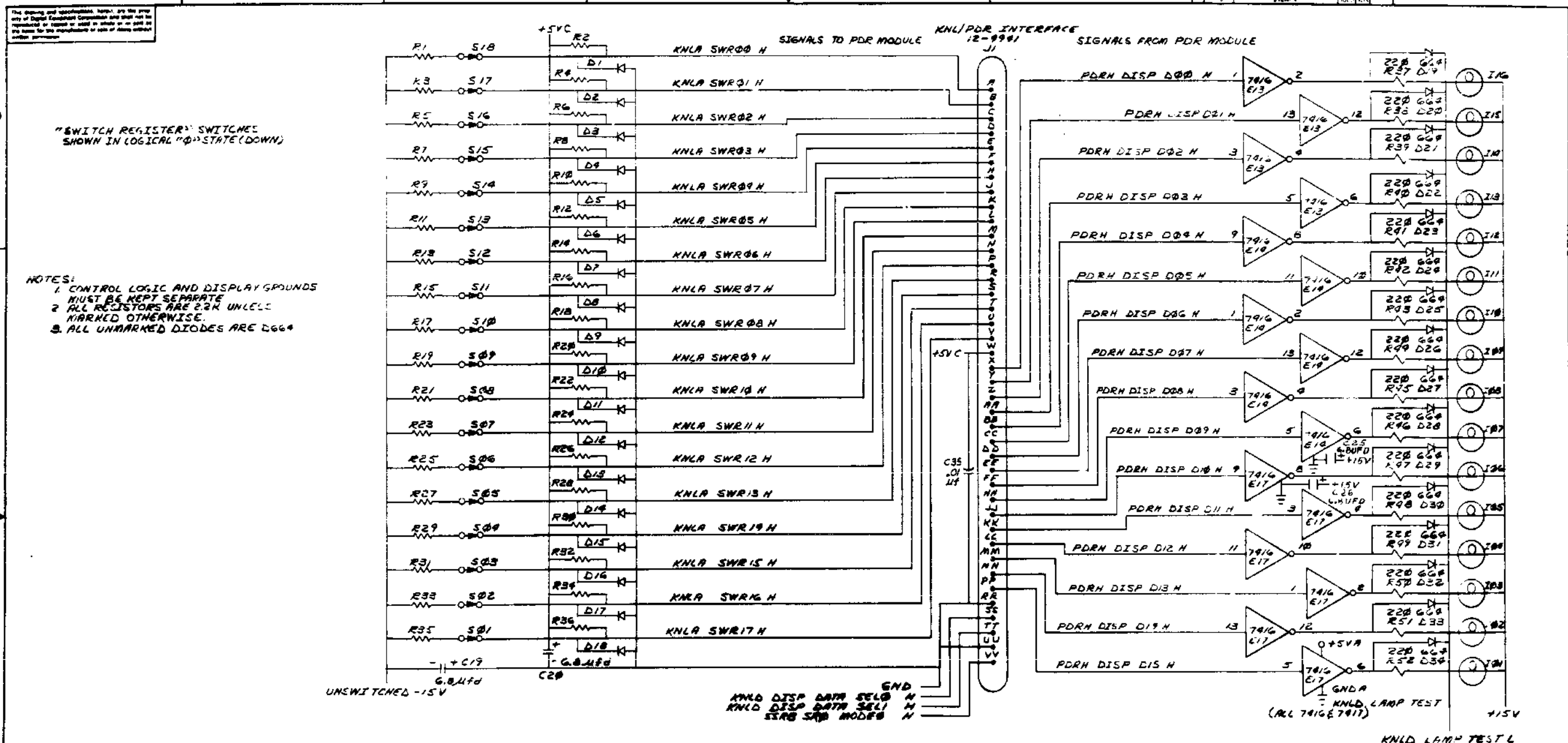
REGULATOR/HARNESS JUMPER CONFIG. FOR SEMICOND. MEMORY														
MEMORY	BACK PANEL SLOT					REG SLOT				HARNESS TO BE CUT			REMARKS	
	17	18	19	20	22	23	24	25	H	J	K	L		
BIPOLAR	B	-	-	-	-	-	-	-	+5	-	-	-	NONE	NONE
4K	B	-	-	-	-	-	-	-	+5	-	-	-	NONE	NONE
8K	B	-	-	-	-	-	-	-	+5	-	-	-	P5 - PINS 7-8	
2K	B	-	-	-	-	-	-	-	+5	-	-	-	P5 - PINS 7-8	
16K	B	-	-	-	-	-	-	-	+5	-	-	-	P5 - PINS 3-4 & 7-8	
20K	B	-	-	-	-	-	-	-	+5	-	-	-	P5 - PINS 3-4 & 7-8	
24K	B	-	-	-	-	-	-	-	+5	-	-	-	P5 - PINS 3-4 & 7-8	
28K	B	B	B	B	B	B	B	B	+5	+5	+5	+5	P5 - PINS 3-4 & 7-8, P6 - PINS 7-8	
32K	B	B	B	B	B	B	B	B	+5	+5	+5	+5	P5 - PINS 3-4 & 7-8, P6 - PINS 7-8	NONE

0-0-55/11 MTD 2

REVISIONS		
CHK	CHANGE NO	REV

TITLE	SIZE CODE	NUMBER	REV.
BASIC ASSY PDP11/55	D UA	11/55-0-0	A
SCALE	SHEET	DIST.	
	4 OF 4		

DUA 11/55-0-0

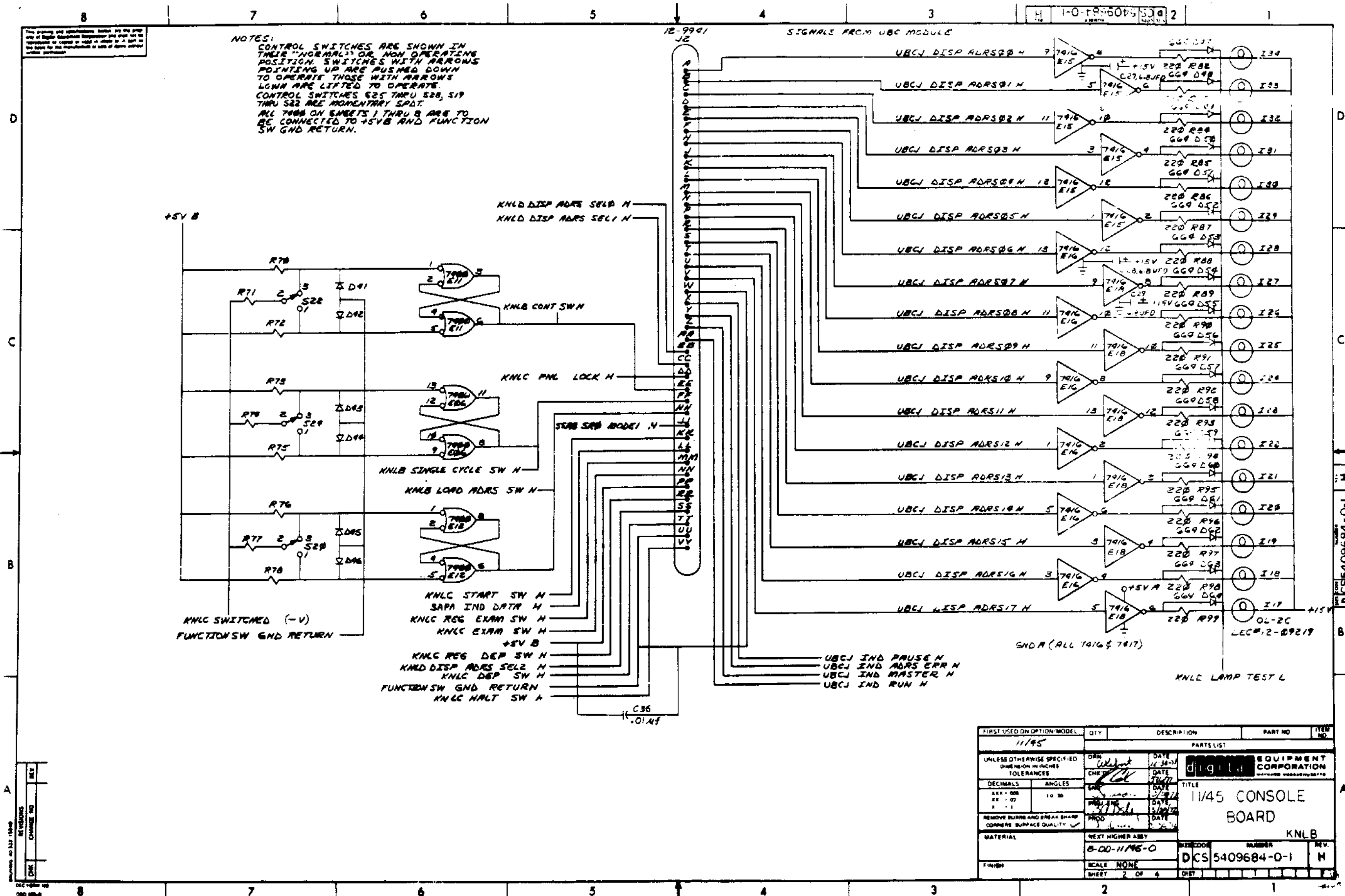


REV	DATE	BY	CHKD	DATE
1	11/15/55	J. SWANSON		
2	11/15/55	J. SWANSON		
3	11/15/55	J. SWANSON		
4	11/15/55	J. SWANSON		
5	11/15/55	J. SWANSON		
6	11/15/55	J. SWANSON		
7	11/15/55	J. SWANSON		
8	11/15/55	J. SWANSON		

FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO.	ITEM NO.
11/45				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED		DATE	EQUIPMENT CORPORATION	
ONE DECIMAL INCHES		6 16 55	11/45 CONSOLE BOARD	
TOLERANCES		DATE		
DECIMALS	ANGLES	DATE	KNLA	
XXX - 000	10' 30"	DATE	B-00-11/45-0	
XX - 00		DATE	DCS 5409684-0-1	
X - 0		DATE	REV H	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		DATE		
MATERIAL		DATE		
NEXT HIGHER ASBY		DATE		
FINISH		DATE		
SCALE		DATE		
SHEET		DATE		

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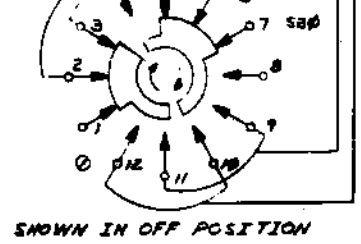
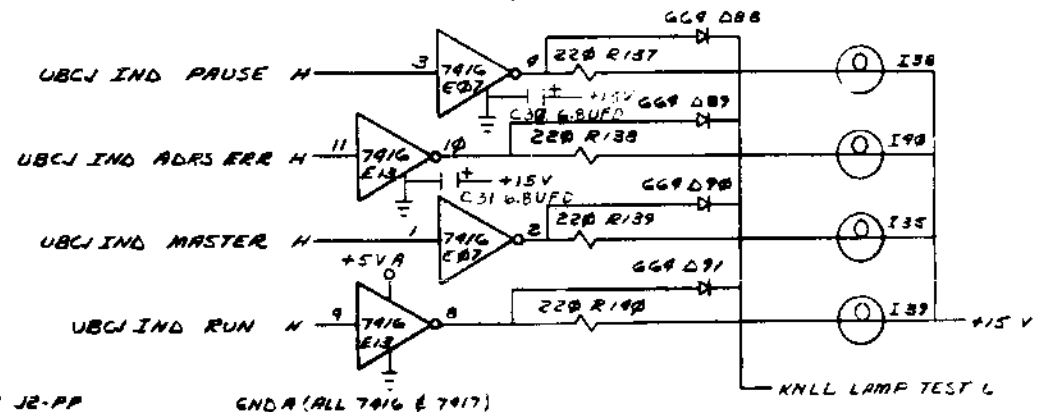
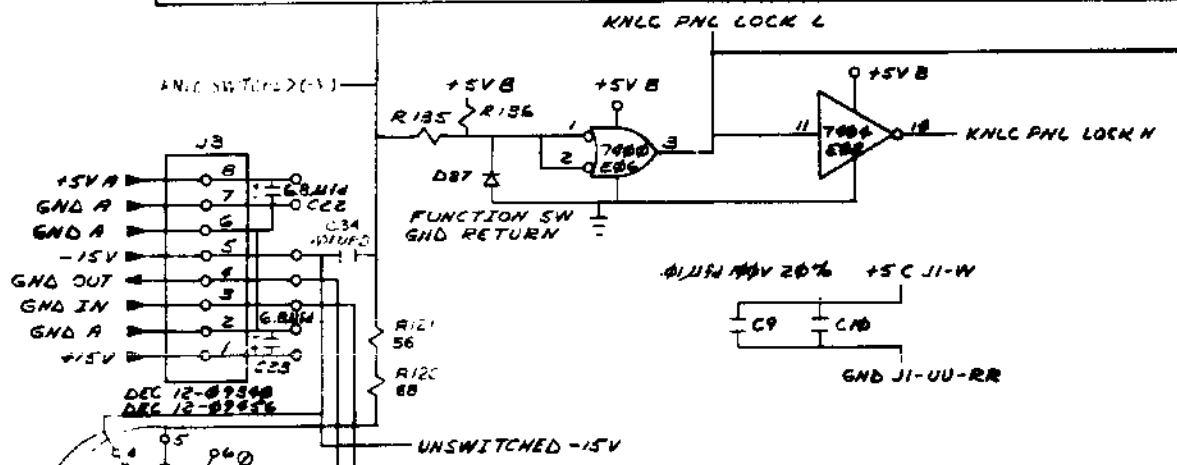
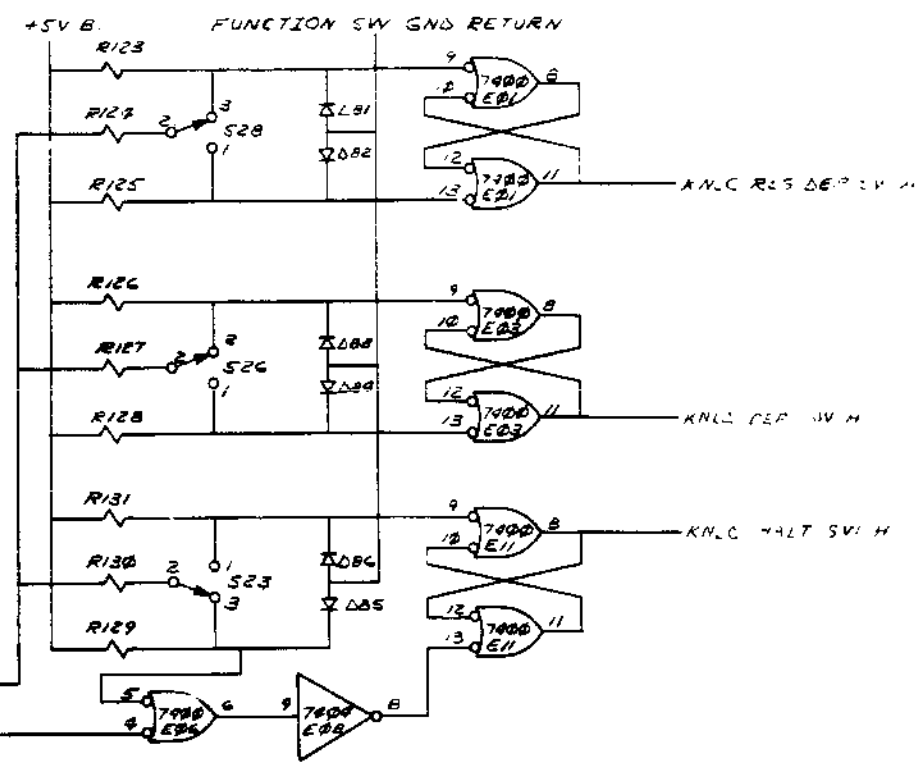
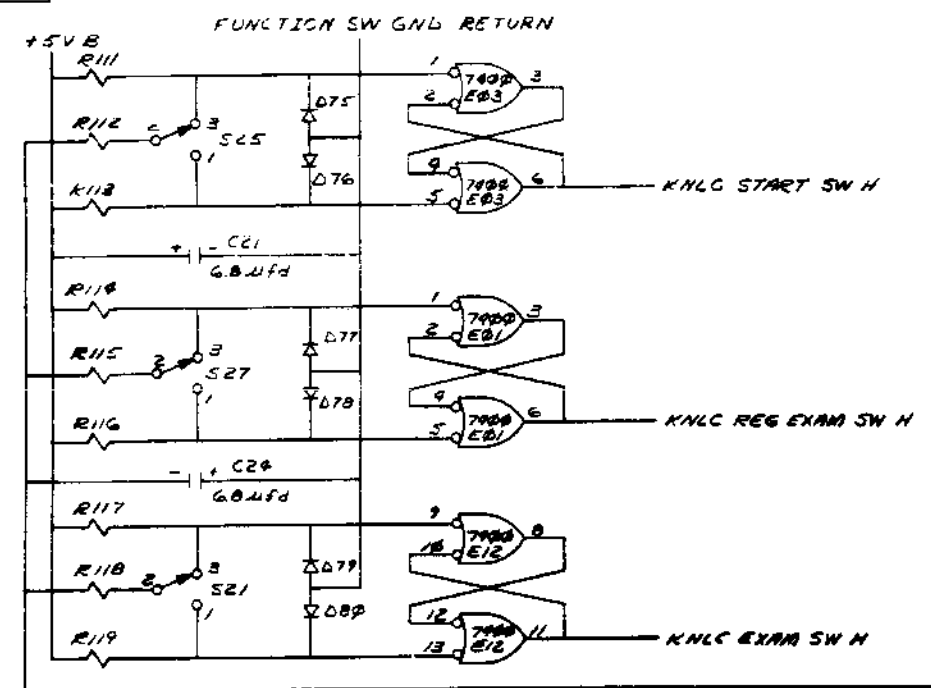
NOTES:
 CONTROL SWITCHES ARE SHOWN IN THEIR "NORMAL" OR "NON OPERATING" POSITION. SWITCHES WITH ARROWS POINTING UP ARE PUSHED DOWN TO OPERATE THOSE WITH ARROWS DOWN ARE LIFTED TO OPERATE. CONTROL SWITCHES S25 THRU S28, S19 THRU S22 ARE MOMENTARY SPST. ALL 7908 ON SHEETS 1 THRU 8 ARE TO BE CONNECTED TO +5VB AND FUNCTION SW GND RETURN.



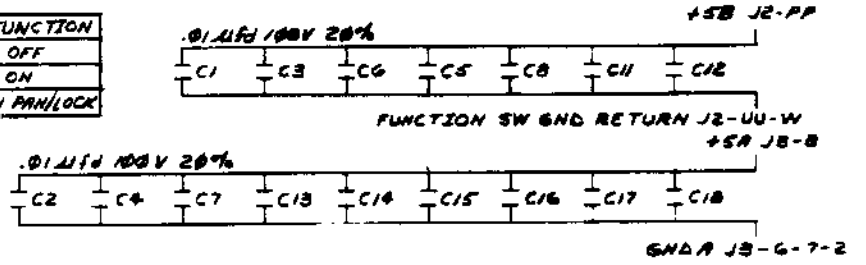
FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO	ITEM NO
11/45				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN CHK	DATE 11-30-71	 EQUIPMENT CORPORATION TITLE: 11/45 CONSOLE BOARD KNLB	
DECIMALS	ANGLES	DATE 11/17/71		
XXX - 000 XX - 00 X - 1	10 30	DATE 11/17/71		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROD	DATE 11/17/71		
MATERIAL	NEXT HIGHER ASBY	INSTRUC	NUMBER	REV.
FINISH	SCALE NONE	DWG	DCS 5409684-0-1	M
	SHEET 2 OF 4	DWG		

DCS 5409684-0-1

Background Paper 170-21-10
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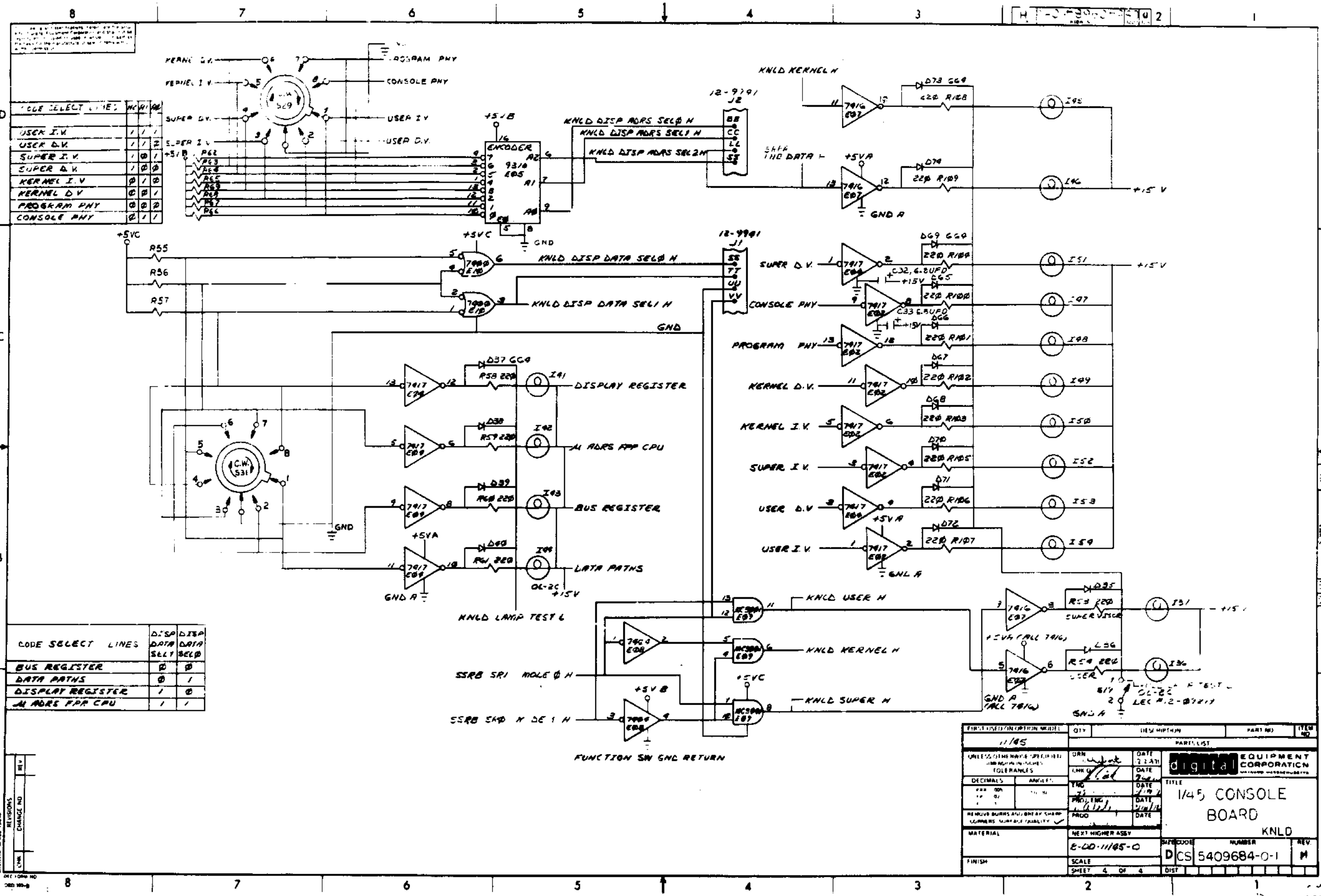
POSITION	POLE	FUNCTION
POS 1	2,3	OFF
POS 2	4,5,8,10	ON
POS 3	6,12	ON PAN/LOCK



FIRST USE IN OPTION MODEL	QTY	DESCRIPTION	PART NO.	ITEM NO.
11/45				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES	DRN CHK ENGR APP'D DATE 11/75	DATE 11/75	 digital EQUIPMENT CORPORATION WALTHAM, MASSACHUSETTS	
DECIMALS	ANGLES	DATE 3/78	TITLE 11/45 CONSOLE BOARD	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROD DATE 11/75	DATE 3/78	PART NO. DCS 5409684-0-1	
MATERIAL	NEXT HIGHER ASSY B-DD-11/45-0	DATE 11/75	NUMBER 4	REV 4
FINISH	SCALE SHEET 3 OF 4	DATE 11/75	BOARD KNLC	

REV
 CHANGE NO
 DATE

DCS 5409684-0-1



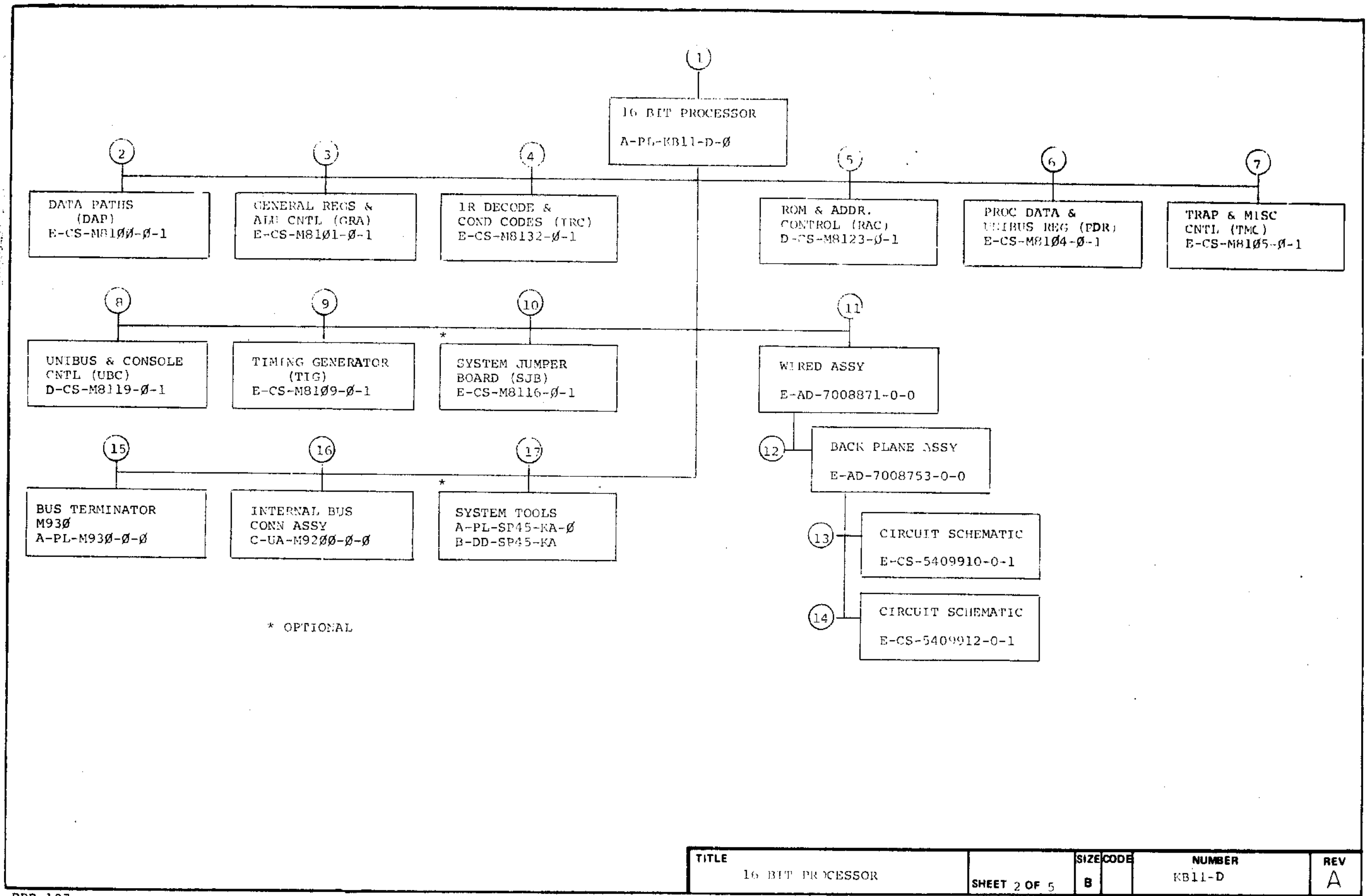
CODE SELECT LINES	W	R	W	R
USER I.V.	1	1	1	1
USER D.V.	1	1	1	1
SUPER I.V.	1	1	1	1
SUPER D.V.	1	1	1	1
KERNEL I.V.	1	1	1	1
KERNEL D.V.	1	1	1	1
PROGRAM PNY	1	1	1	1
CONSOLE PNY	1	1	1	1

CODE SELECT LINES	DISP DATA SEL1	DISP DATA SEL2
BUS REGISTER	0	0
DATA PATHS	0	1
DISPLAY REGISTER	1	0
AI ADDS FOR CPU	1	1

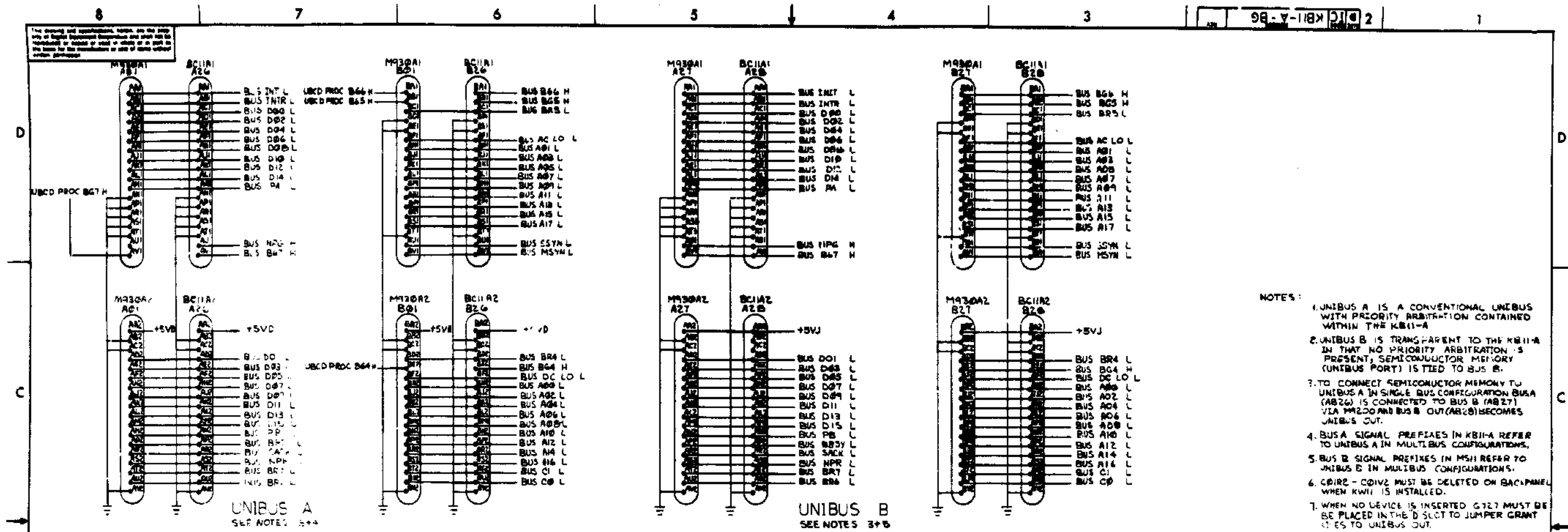
REV	DATE	BY	CHKD
1			
2			
3			
4			
5			
6			
7			
8			

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

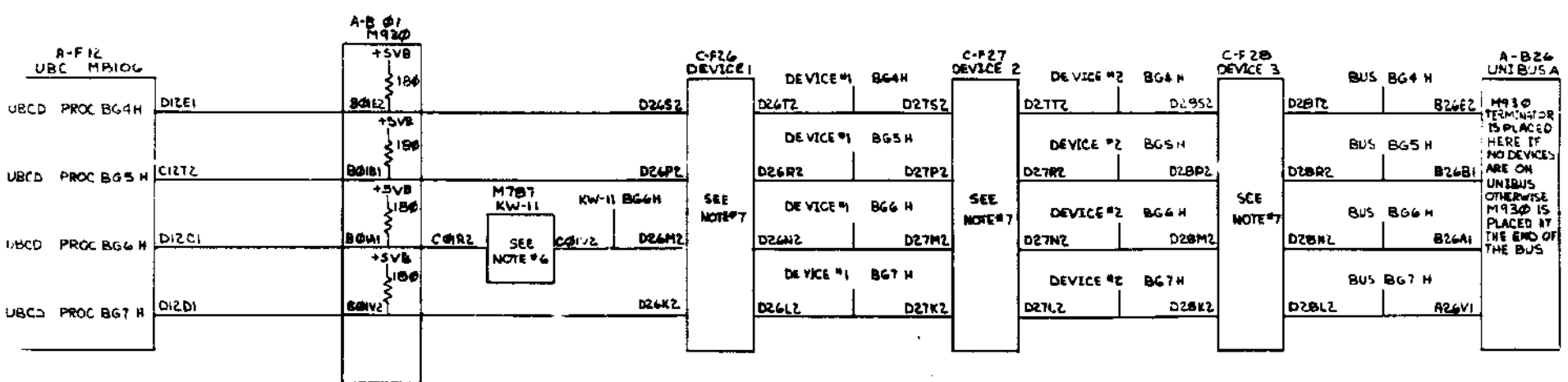
DESCRIPTION	QTY	DESCRIPTION	PART NO	ITEM NO
1145				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	ORIGIN	DATE	EQUIPMENT CORPORATION	
TOLERANCES	CHKD	DATE	1/45 CONSOLE BOARD	
DECIMALS	ENG	DATE	KNLD	
ANGLES	PROJ. ENG.	DATE	E-00-1145-0	
REMOVE BURRS AND FILE BY SHARP	PRD	DATE	DCS 5409684-0-1	
SCREWERS MUST FILE			SHEET 4 OF 4	
MATERIAL			DIST	
FINISH				



TITLE	16 BIT PROCESSOR	SHEET 2 OF 5	SIZE CODE	B	NUMBER	KB11-D	REV	A
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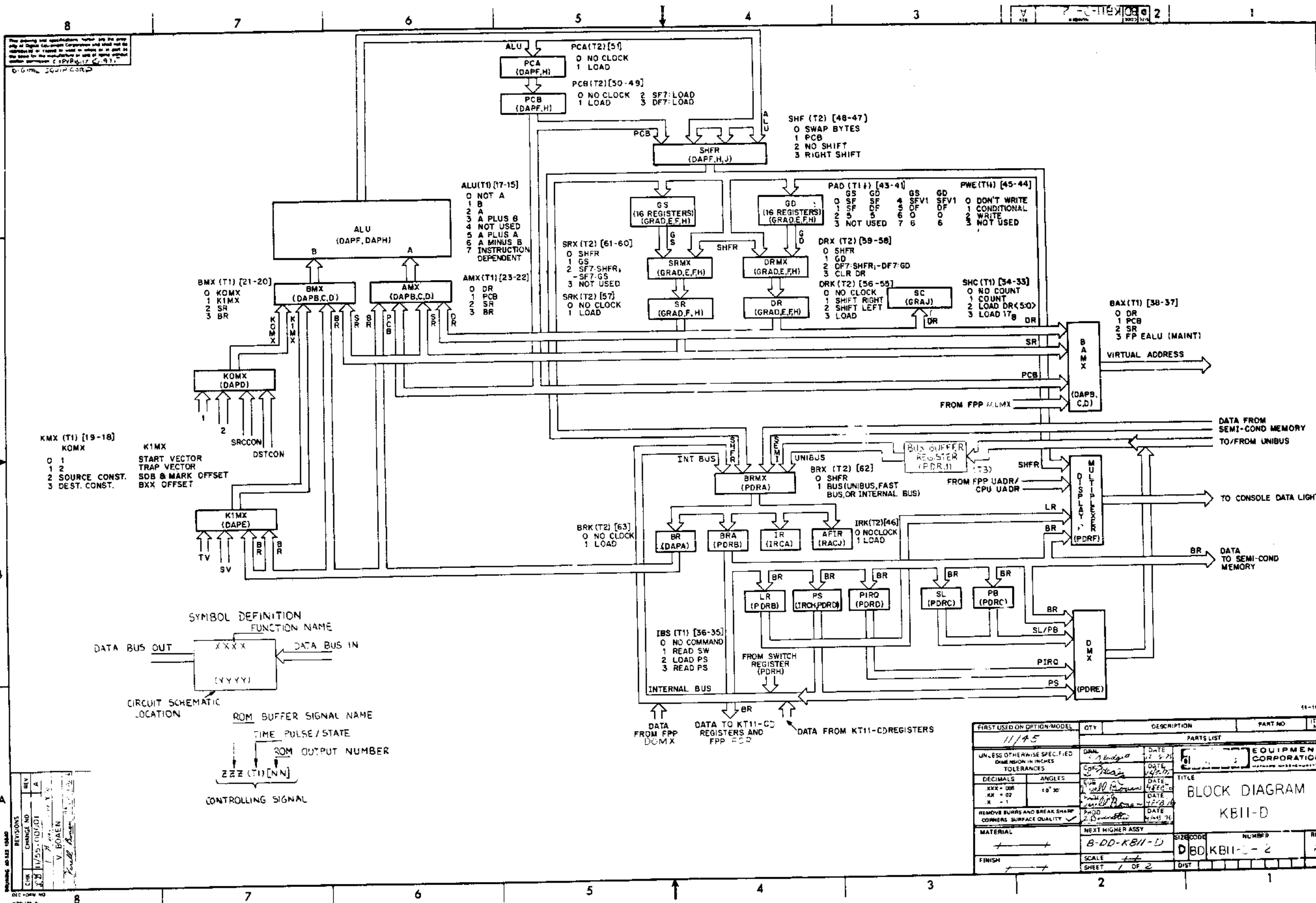


- NOTES:**
1. UNIBUS A IS A CONVENTIONAL UNIBUS WITH PRIORITY ARBITRATION CONTAINED WITHIN THE KB11-A.
 2. UNIBUS B IS TRANSPARENT TO THE KB11-A IN THAT NO PRIORITY ARBITRATION IS PRESENT; SEMICONDUCTOR MEMORY (UNIBUS PORT) IS TIED TO BUS B.
 3. TO CONNECT SEMICONDUCTOR MEMORY TO UNIBUS A IN SINGLE BUS CONFIGURATION BUS A (A26) IS CONNECTED TO BUS B (A27) VIA M9300 AND BUS B OUT (A28) BECOMES UNIBUS OUT.
 4. BUS A SIGNAL PREFIXES IN KB11-A REFER TO UNIBUS A IN MULTIBUS CONFIGURATIONS.
 5. BUS B SIGNAL PREFIXES IN MSH REFER TO UNIBUS B IN MULTIBUS CONFIGURATIONS.
 6. C01R2 - C01V2 MUST BE DELETED ON BACKPANEL WHEN KW11 IS INSTALLED.
 7. WHEN NO DEVICE IS INSERTED G127 MUST BE PLACED IN THE 'D' SLOT TO JUMPER GRANT ACCESS TO UNIBUS OUT.



REV	DATE	BY

FIRST USED ON OPTION MODEL	QTY	DESCRIPTION	PART NO.	ITEM NO.
11/45				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES				
DECIMALS	ANGLES	TITLE		
±.000	±.000	BUS CABLES AND GRANT CHAIN (BUS)		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL	NEXT HIGHER ASSY	REV CODE	NUMBER	REV.
	B-DD-KB11-A	D1C	KB11-A-BG	
FINISH	SCALE	SHEET	OF	DIST.
		1	1	



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- KMX (T1) [19-18]
 0 KOMX
 1 K1MX
 2 SR
 3 BR

- K1MX
 START VECTOR
 TRAP VECTOR
 SOB & MARK OFFSET
 BXX OFFSET

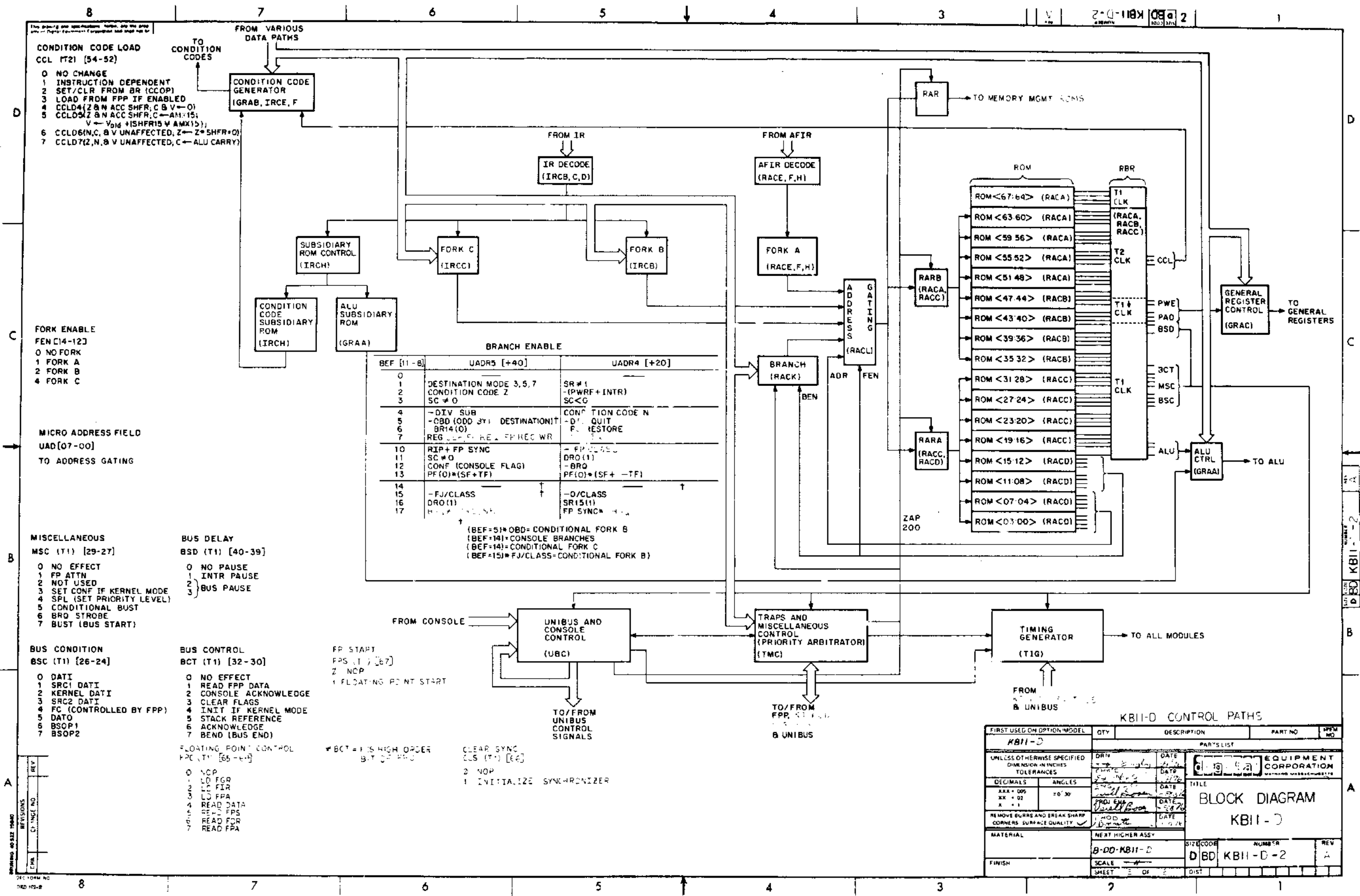
SYMBOL DEFINITION

FUNCTION NAME	LOCATION	ROM BUFFER SIGNAL NAME	TIME PULSE/STATE	ROM OUTPUT NUMBER	CONTROLLING SIGNAL
XXXX					
YYYY					
ZZZ (U[N])					

FIRST USED ON OPTION MODEL	QTY	DESCRIPTION	PART NO	ITEM NO
11145				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES				
DECIMALS	ANGLES	EQUIPMENT CORPORATION		
KXX - 008	10° 30'	TITLE		
KX - 02		BLOCK DIAGRAM		
K - 1		KBII-D		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL	NEXT HIGHER ASSY	SIZE CODE	NUMBER	REV
	B-DD-KBII-D	D	BDKBII-D-2	
FINISH	SCALE	SHEET	DIST	
	1 OF 2			

20

REV	CHG	NO	DATE	BY
1		1	11/55	V. BOAEN
2		2	11/55	V. BOAEN



KB11-D CONTROL PATHS

FIRST USED ON OPTION MODEL	QTY	DESCRIPTION	PART NO	SPR NO
KB11-D				

UNLESS OTHERWISE SPECIFIED		PARTS LIST	
DRAWN	DATE	DATE	DATE
XXX-005	10-30		
XX-02			
X-11			

TITLE: BLOCK DIAGRAM KB11-D

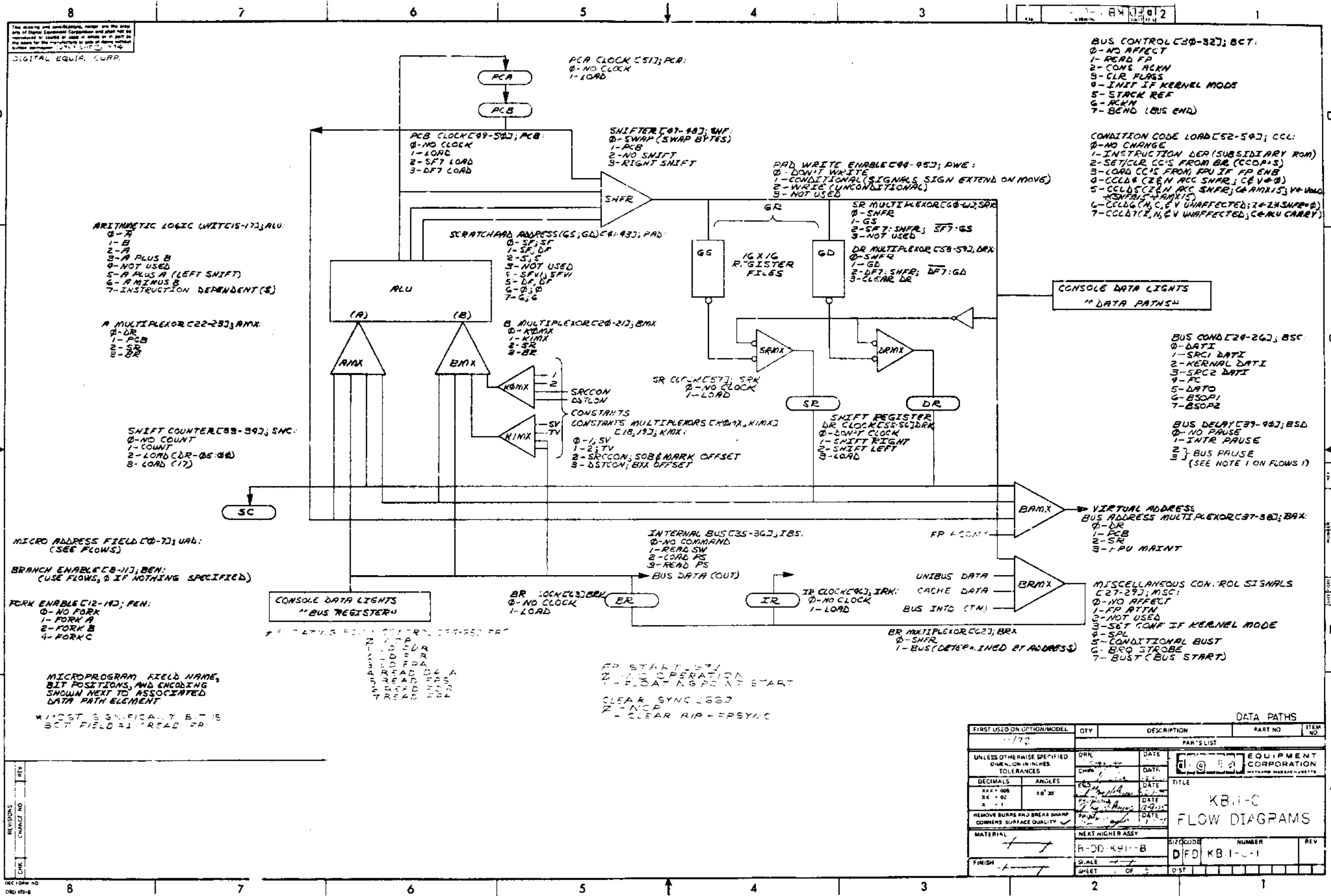
MATERIAL: NEXT HIGHER ASSY

FINISH: SCALE: SHEET 1 OF 2

SIZE CODE: D BD

NUMBER: KB11-D-2

REV: A



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ARITHMETIC LOGIC UNIT C15-173; ALU:
 0-A
 1-B
 2-A PLUS B
 3-A PLUS B
 4-NOT USED
 5-A PLUS A (LEFT SHIFT)
 6-A MINUS B
 7-INSTRUCTION DEPENDENT (\$)

A MULTIPLEXOR C22-233; AMX:
 0-DR
 1-PCB
 2-SR
 3-DR

SHIFT COUNTER C55-593; SMC:
 0-NO COUNT
 1-COUNT
 2-LOAD (DR-05: 00)
 3-LOAD (17)

MICRO ADDRESS FIELD C0-73; UAB:
 (SEE FLOWS)

BRANCH ENABLE C18-193; BEN:
 (USE FLOWS, 0 IF NOTHING SPECIFIED)

FORK ENABLE C12-143; FEN:
 0-NO FORK
 1-FORK A
 2-FORK B
 4-FORK C

MICROPROGRAM FIELD NAME, BIT POSITIONS, AND ENCODING SHOWN NEXT TO ASSOCIATED DATA PATH ELEMENT
 *MOST SIGNIFICANT BITS
 BCT FIELD 31 READ PA

REV	DATE
1	11/77
2	12/77
3	1/78
4	2/78
5	3/78
6	4/78
7	5/78
8	6/78
9	7/78
10	8/78
11	9/78
12	10/78
13	11/78
14	12/78
15	1/79
16	2/79
17	3/79
18	4/79
19	5/79
20	6/79
21	7/79
22	8/79
23	9/79
24	10/79
25	11/79
26	12/79
27	1/80
28	2/80
29	3/80
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183	1/93
184	2/93
185	3/93
186	4/93
187	5/93
188	6/93
189	7/93
190	8/93
191	9/93
192	10/93
193	11/93
194	12/93
195	1/94
196	2/94
197	3/94
198	4/94
199	5/94
200	6/94
201	7/94
202	8/94
203	9/94
204	10/94
205	11/94
206	12/94
207	1/95
208	2/95
209	3/95
210	4/95
211	5/95
212	6/95
213	7/95
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215	9/95
216	10/95
217	11/95
218	12/95
219	1/96
220	2/96
221	3/96
222	4/96
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235	5/97
236	6/97
237	7/97
238	8/97
239	9/97
240	10/97
241	11/97
242	12/97
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266	12/99
267	1/100
268	2/100
269	3/100
270	4/100
271	5/100
272	6/100
273	7/100
274	8/100
275	9/100
276	10/100
277	11/100
278	12/100

FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO	ITEM NO
11/77				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES				
DECIMALS	ANGLES	TITLE		
XX + .00	10' 30"	KBI-C FLOW DIAGRAMS		
XX + .02		EQUIPMENT CORPORATION		
X + .1		DATE		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL				
NEXT HIGHER ASSY				
FINISH				
SCALE				
SHEET				
OF 3				
DST				

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DIGITAL EQUIP CORR

NOTE:
 1. BUS PAUSE =
 2. FOR UNIBUS CYCLES
 3. FOR CACHE CYCLES

FET 00 (217)
 FET 01 (331)
 FET 02 (332)
 FET 03 (334)
 FET 04 (164)
 FET 05 (126)
 FET 06 (373)

START FETCH NEXT INSTR
 CLEAR INSTR. REG
 1. BA ← PCB; BC ← DATI
 2. SHFR ← SR - SR
 3. BUST; CLEAR FLAGS
 4. IR ← SHFR

BENB (240)
 BRQ

FET 10 (260)
 FET 11 (321)
 FET 12 (322)
 FET 13 (329)
 GET INSTR. STEP FC
 BEYOND
 1. BA ← PCB; BC ← DATI
 2. <SH, SR ← PCB + 2>
 3. BRQ STROBE
 4. BUS PAUSE
 5. PC ← PC + 2
 6. IR ← BUS; BR ← BUS
 7. PCB ← PC
 8. PC ← BA

IR ← SHFR (343)

IRD 00 (343)
 DECODE THIS INSTR. STEP
 FC. BEYOND CRASH SRC
 DET. FIELD GEN REGS
 1. BA ← PCB; BC ← DATI
 2. SHFR ← PCB
 3. CONDITIONAL BUST
 4. SR ← SR
 5. PC ← PC + 2
 6. SR ← SHFR
 7. DR ← GDCDFJ
 8. DR ← SHFR

FEN1 (377)

A-FORK

BIN * SM123 (021) SM1
 S13 01 (022) SM23
 FETCH SRC & STEP
 REGISTER UP
 1. BA ← SR; BC ← SRC1 DATI
 2. SHFR ← SR + SRC CON
 3. BUST
 4. PC ← SR + SRC CON
 5. SRC1 ← SHFR
 6. SFT: PCB ← PC

S13 10 (027)
 GET SRC. READ LST REG
 1. BA ← SR; BC ← SRC1 DATI
 2. SHFR ← PCB
 3. BRQ STROBE
 4. BUS PAUSE
 5. PC ← PC + 2
 6. SR ← SHFR
 7. DR ← GDCDFJ
 8. DR ← SHFR

FEN4 (317)
 BENM (317)

BIN * SM45 (029)
 S45 00 (023) SM23
 STEP REGISTER DOWN
 1. <BA ← PCB>
 2. SHFR ← SR - SRC CON
 3. BEND
 4. PC ← SR - SRC CON
 5. SRC1 ← SHFR
 6. SFT: PCB ← PC

S45 10 (023)
 FETEN SRC
 1. BA ← SR; BC ← SRC1 DATI
 2. SHFR ← PCB
 3. BUST; SRC1 ← SFT

FEN1 (377)

MTP (045)
 MTR 00 (151)
 REG. IN SR (SPL IN CA
 CODE); POP TOP OF STACK
 1. <BA ← PCB>
 2. SHFR ← SR + 2
 3. BEND
 4. SRC1 ← SHFR

MTR 10 (151)
 CORRECT DR. IN CASE WEST
 FIELD C, GET TOP OF STACK
 1. BA ← SR; BC ← SRC1 DATI
 2. SHFR ← PCB
 3. BUST
 4. DR ← GDCDFJ
 5. DR ← SHFR

FEN1 (377)

BXX * BCOK (326) - BRQ (BNE, BGE, BGT, BPL, BNL, BVC, BCC)
 BXX 01 (325) - BRQ (BMI, BLOS, BVS, BCS)
 BXX 02 (324) - BRQ (BR, BEQ, BLT, BLE)
 BXX 03 (330) BRQ (BNE, BGE, BGT, BPL, BNL, BVC, BCC)
 BXX 04 (335) BRQ (BMI, BLOS, BVS, BCS)
 BXX 05 (336) BRQ (BR, BEQ, BLT, BLE)

SUCCESSFUL BRANCH,
 FIX PC
 1. <BA ← PCB>
 2. <SHFR ← PCB + BXX DTSP>
 3. BEND; BRQ STROBE
 4. PC ← PC + BXX DTSP
 5. PCB ← PC

FET 00 (217)

BXX * BCOK * - BRQ
 FET 11 (321) BPL, BNL, BVC, BCC
 FET 12 (322) BNE, BGE, BGT

FET 13 (324) BRQ, BLT, BLE, BMI, BLOS, BVS, BCS

BXX * BCOK * - BRQ
 FET 01 (330) BPL, BNL, BVC, BCC
 FET 02 (332) BNE, BGE, BGT

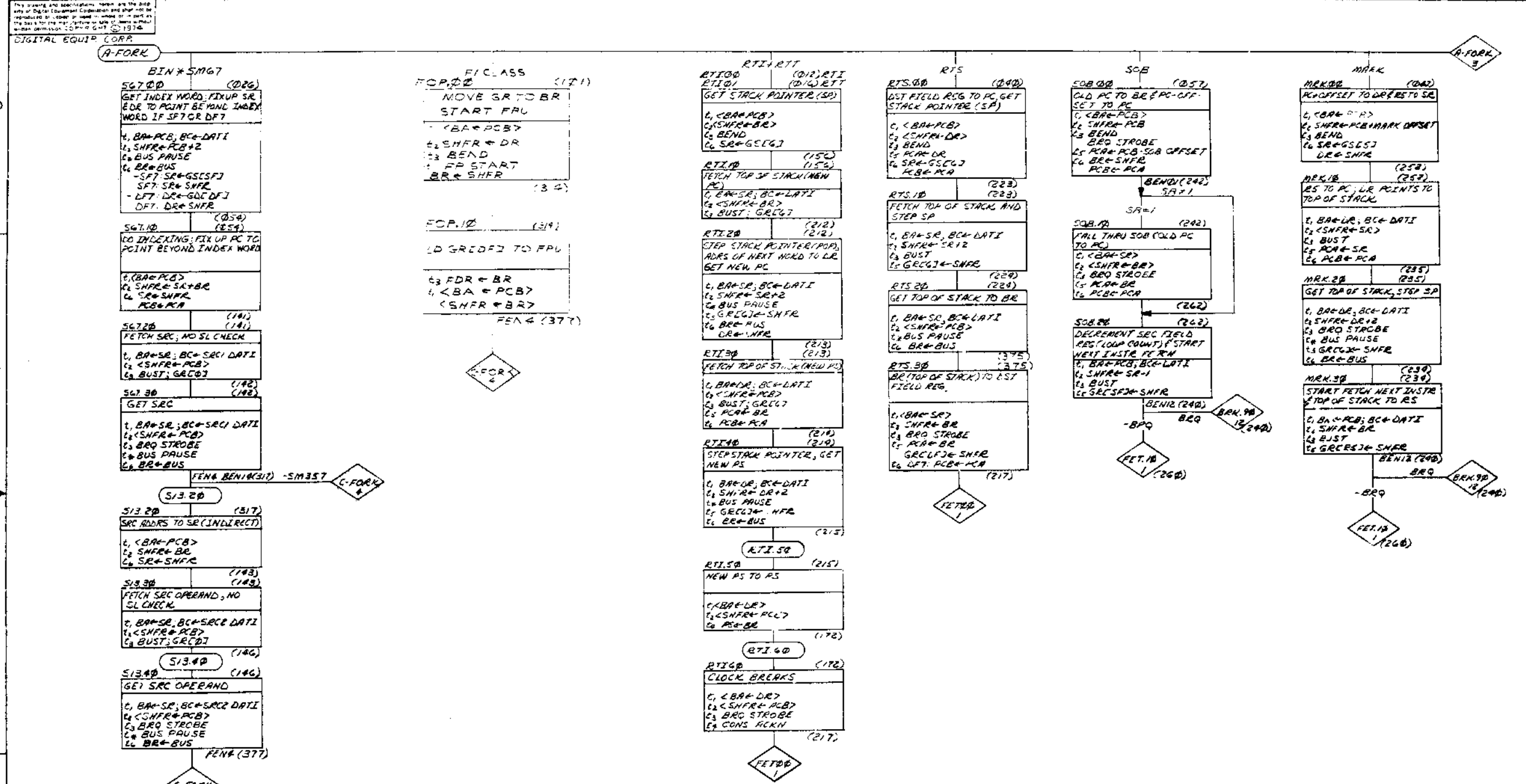
FET 03 (334) BRQ, BLT, BLE, BMI, BLOS, BVS, BCS

INSTRUCTION FETCH

FIRST USE ON OPTION/MODEL	QTY	DESCRIPTION	PART NO	ITEM NO
11/70				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES				
DECIMALS	ANGLES	PARTS LIST		
XXX - 005	10' 30"	EQUIPMENT CORPORATION		
XX - 02		TITLE KBII-C		
X - 1		FLOW DIAGRAMS (FLOWS)		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL	NEXT HIGHER ASSY	SIZE CODE	NUMBER	REV
	B-00-KBII-C	DFD	KBII-C	
FINISH	SCALE	SHEET	DIST	
		2		

REV. NO. 1
 CHG. NO. 1
 DATE 10-10-70

23



REVISIONS

REV	NO	DATE	BY
1			
2			
3			
4			
5			
6			
7			
8			

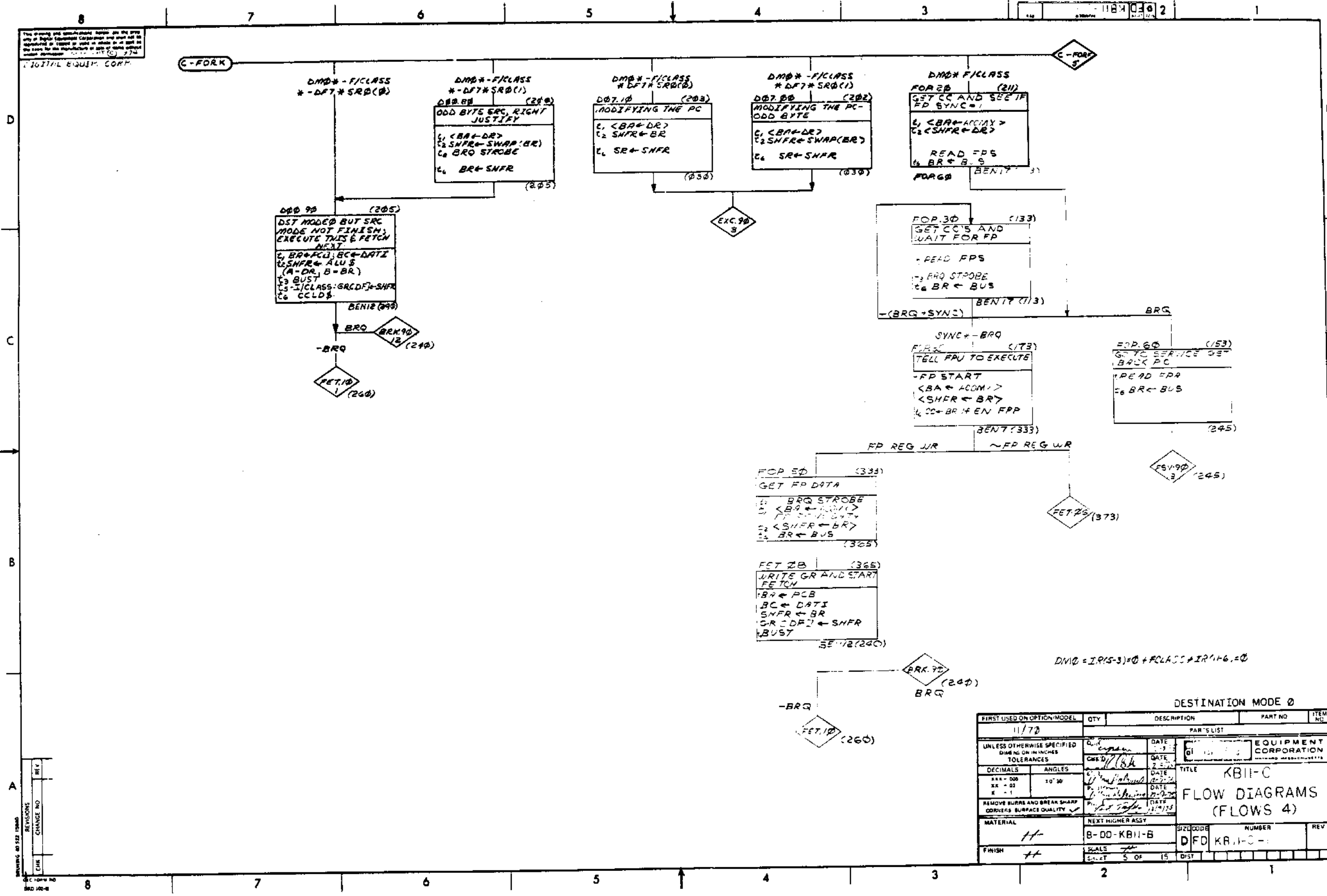
CONTROL, FLOATING, INDEXED SOURCE

FIRST USE IN OPTION MODEL	QTY	DESCR - I.D.N	PART NO	ITEM NO
1170				
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES				
DECIMALS	ANGLES	DATE	TITLE	
XXX .000	± 0.00	12-9-70	KBI-1	
XX .01	± 0.01	DATE	FLOW DIAGRAMS	
X .1	± 0.05	DATE	(FLOWS 2)	
REMOVE BURRS AND BREAK SHARP CORNERS SQUARE QUALITY				
MATERIAL	NEXT NUMBER ASBY	SCALE	NUMBER	REV
	A-CD-KBI-1-B	D F D KBI-1		
FINISH		SHEET 3 OF 15		

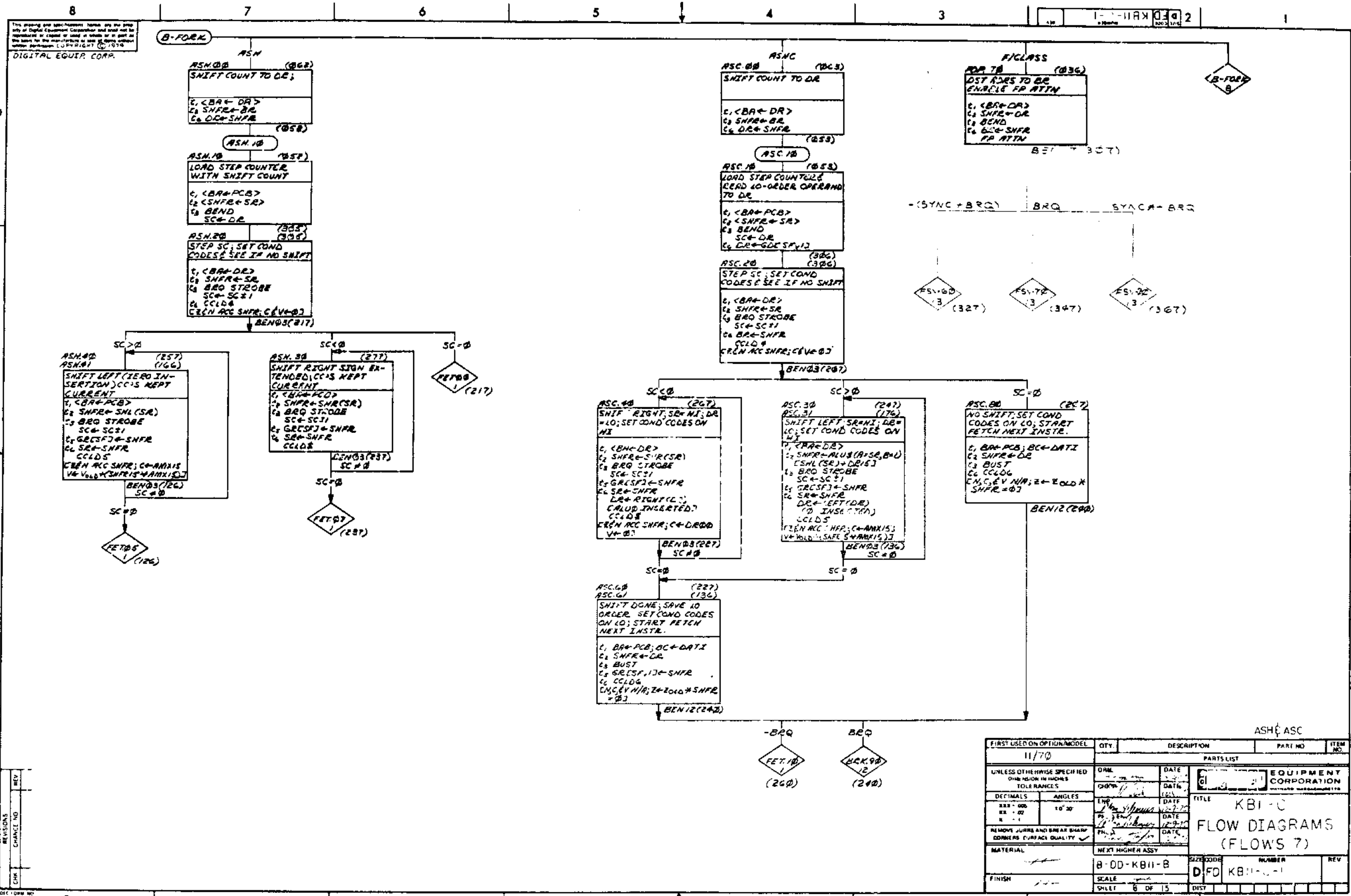
24

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FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO	ITEM NO
11/70				
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES				
DECIMALS	ANGLES	DATE		
XXX - 000	10' 30"	DATE	EQUIPMENT CORPORATION	
XX - 00		DATE	TITLE	
X - 1		DATE	KBII-C	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL	NEXT HIGHER ASSY	DATE	FLOW DIAGRAMS	
H	B-DD-KBII-B	DATE	(FLOWS 4)	
FINISH	SIZE CODE	DATE	NUMBER	REV
++	5 OF 15	DATE	DFD KBII-C-	



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REVISIONS
REV. NO.
DATE
BY
CHK.
CHG.
NO.

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/70				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES				
DECIMALS	ANGLES	DATE		
XXX - 000	10° 30'	DATE	EQUIPMENT CORPORATION	
X - 01		DATE	TITLE	
REMOVE JURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL	NEXT HIGHER ASSY	DATE	KBI-C	
FINISH	SCALE	DATE	FLOW DIAGRAMS	
	SCALE	DATE	(FLOWS 7)	
	SCALE	DATE	PARTS LIST	
	SCALE	DATE	8-DD-KB11-B	
	SCALE	DATE	D.F.D. KB11-C-1	
	SCALE	DATE	6 OF 15	
	SCALE	DATE	DIST	

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DIGITAL EQUIP. CORP.

B-FORK
B-FORK 9

MUL 00 (060)
MULTIPLICAND GOES TO DR; SC ← 17
1, <BA ← DR>
2, SHFR ← BR
3, SC ← 17
4, DR ← SHFR
(102)

MUL 10 (102)
BR GETS CLEARED; DR SHIFTED RIGHT ONE PLACE; BRANCH DETERMINED BEFORE SHIFT
1, <BA ← DR>
2, SHFR ← BR - BR
3, SC ← SC - 1
4, BR ← SHFR
5, DR ← RIGHT (DR)
6, ALUD INSERTED
BEN 11 (210)

DR 0 (1)
MUL 20 (206)
IF DR 0 IS 1 AND SR TO BR AND COMBINED SHIFT RIGHT; BR ← SR IS FOR SIGN
1, <BA ← DR>
2, SHFR ← SHR (BR + SR)
3, SC ← SC - 1
4, CCLD 4
5, BR ← SHFR
6, DR ← RIGHT (DR)
7, ALUD INSERTED
BEN 11 (206)

DR 0 (0)
MUL 30 (206)
IF DR 0 IS 0 (COMBINED SHIFT RIGHT); JE PLACE; SIGN ← SR IS FOR SIGN
1, <BA ← DR>
2, SHFR ← SHR (BR)
3, SC ← SC - 1
4, CCLD 4
5, BR ← SHFR
6, DR ← RIGHT (DR)
7, ALUD INSERTED
BEN 11 (206)

SC ← 0
DR 0 (1)
MUL 50 (206)
MULTIPLICAND NEG; SUBTRACT SR FROM BR AND SHIFT RIGHT; BR ← SR IS FOR SIGN
1, <BA ← DR>
2, SHFR ← ALU (A, BR, B, S)
3, BR 0 STROBE
4, GRSF ← SHFR
5, BR ← SHFR
6, DR ← RIGHT (DR)
7, ALUD INSERTED
8, CCLD 4
9, BEN REC SHFR; VE ← 0
(312)

SC ← 0
DR 0 (0)
MUL 40 (206)
MULTIPLICAND POS; SHIFT RIGHT; HIGH ORDER PRODUCT GOES TO GRSF
1, <BA ← DR>
2, SHFR ← SHR (BR)
3, BR 0 STROBE
4, GRSF ← SHFR
5, BR ← SHFR
6, DR ← RIGHT (DR)
7, ALUD INSERTED
8, CCLD 4
9, BEN REC SHFR; VE ← 0
(310)

MUL 60 (310)
LOW ORDER PRODUCT GOES TO GRSF V1
1, BR ← PCB, BC ← DATI
2, SHFR ← DR
3, BUST
4, GRSF V1 ← SHFR
5, CCLD 8
BEN 12 (200)

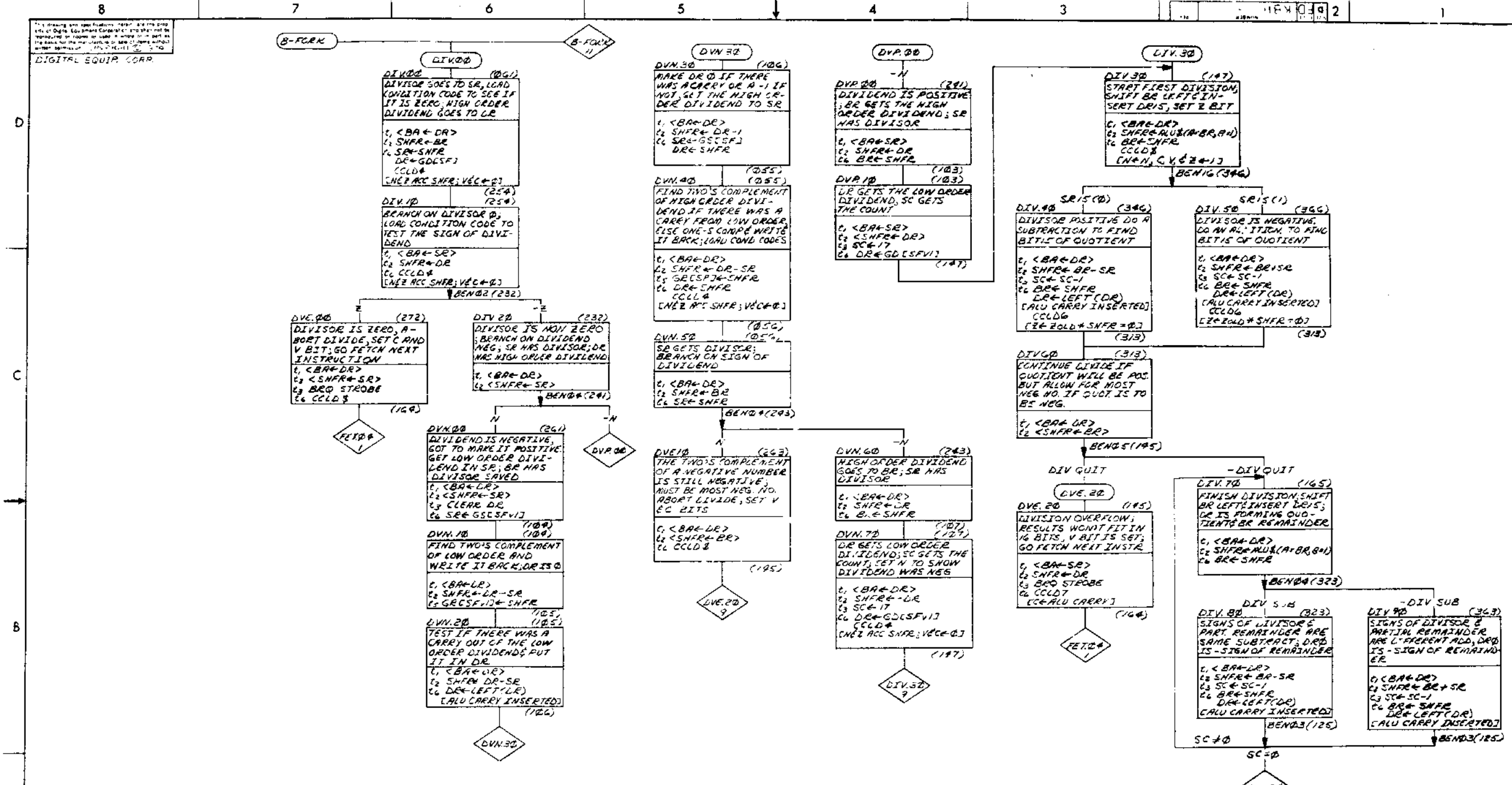
FET 10 (200) - BRQ

BRQ - BKR 90 (200)

FIRST LIST ON OTHER MODEL		REV	DESCRIPTION	P. OF	TOTAL
11/70					
UNLESS OTHERWISE SPECIFIED		DATE	DIGITAL EQUIPMENT CORPORATION		
TOLERANCES		DATE	TITLE		
DE. MALS	AND EN	DATE	KBI-B		
BAR - 02	10 21	DATE	FLOW DIAGRAMS		
REPLACE BURMS AND BREAKS		DATE	(FLOWS 8)		
CORRECT TO SHOWN IN THIS		DATE	MATERIAL		
		DATE	PART NUMBER ASSY		
		DATE	A-05-KBI-B		
		DATE	DIED KBI-B-1		
		DATE	SCALE		
		DATE	SHEET 8 OF 15		

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1. Drawing and title block, 2. Part and drawing title, 3. Drawing description, 4. Drawing scale, 5. Drawing date, 6. Drawing number, 7. Drawing revision, 8. Drawing sheet number.

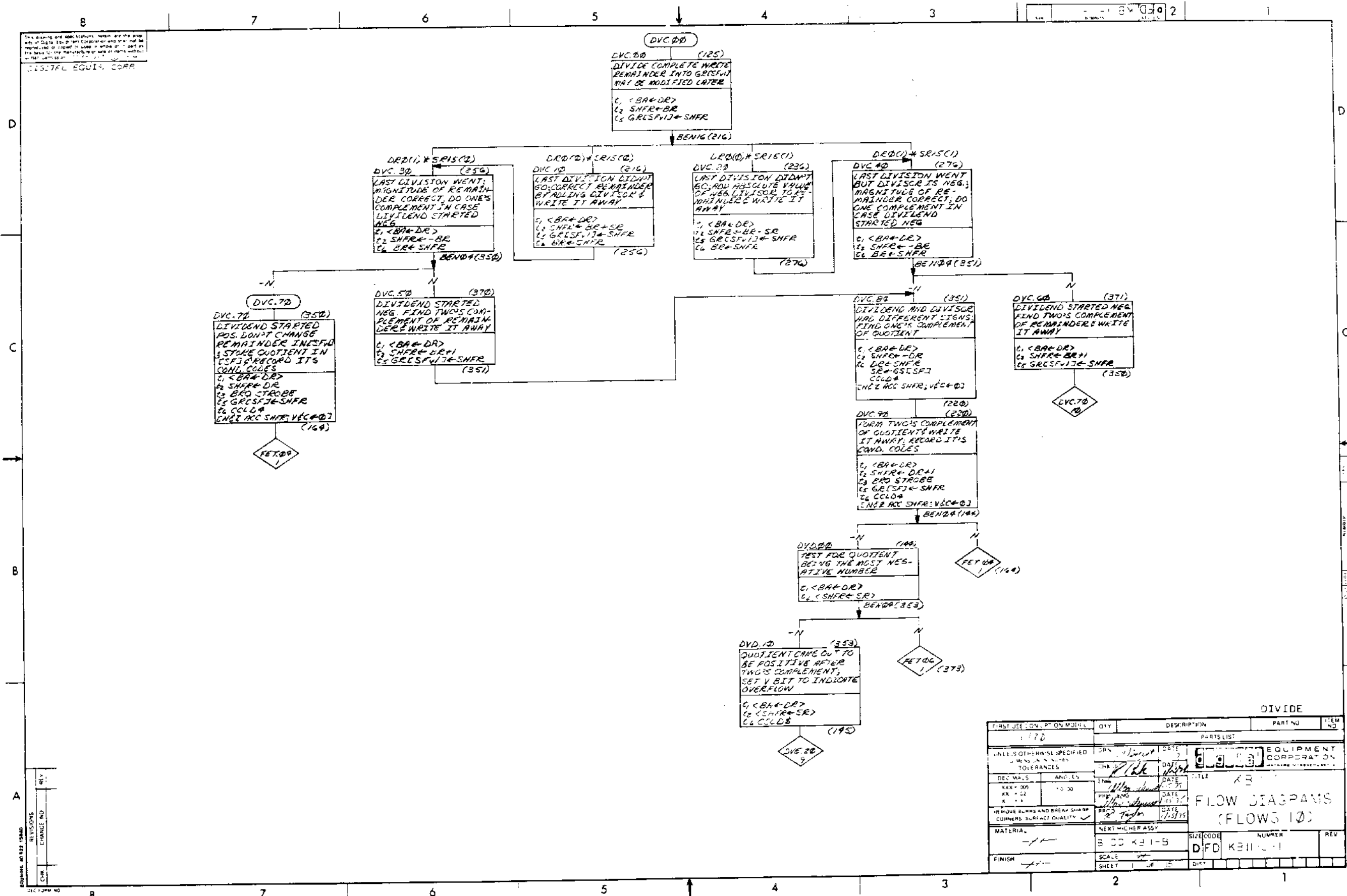


REVISIONS
 NO. DATE BY
 1 1/1/68 JMK

FIRST USED ON OPTION MODEL	QTY	DESCRIPTION	PART NO	ITEM NO
1170				
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES				
DECIMALS	ANGLES	DATE	EQUIPMENT CORPORATION	
±.0008	±.01	12/1/68	TITLE	
±.0015	±.02	12/1/68	KBI-1	
±.0025	±.03	12/1/68	FLOW DIAGRAMS	
±.0050	±.05	12/1/68	(FLOWS 9)	
MATERIAL				
NEXT HIGHER ASSY				
FINISH				
SHEET 10 OF 15				

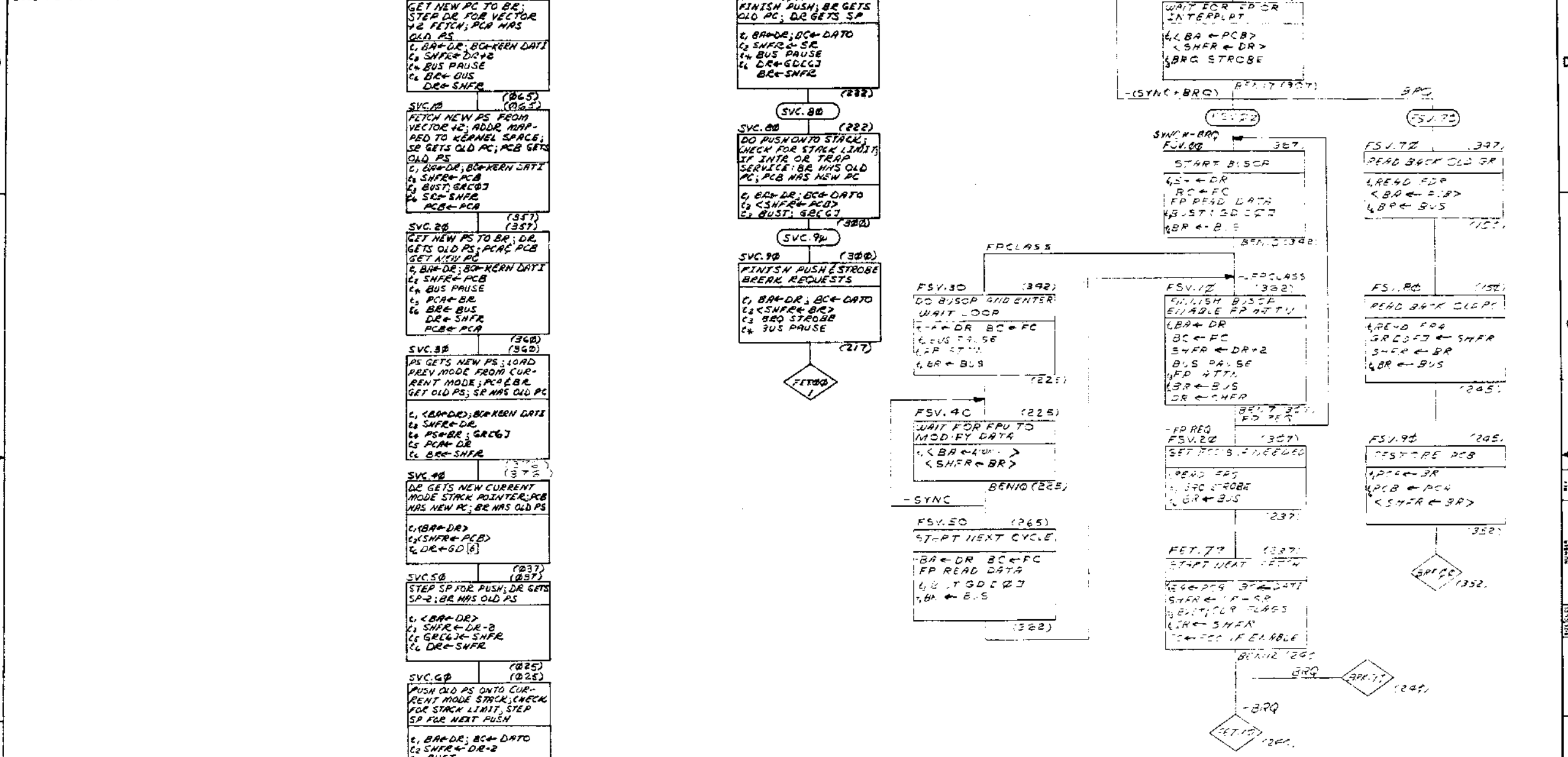
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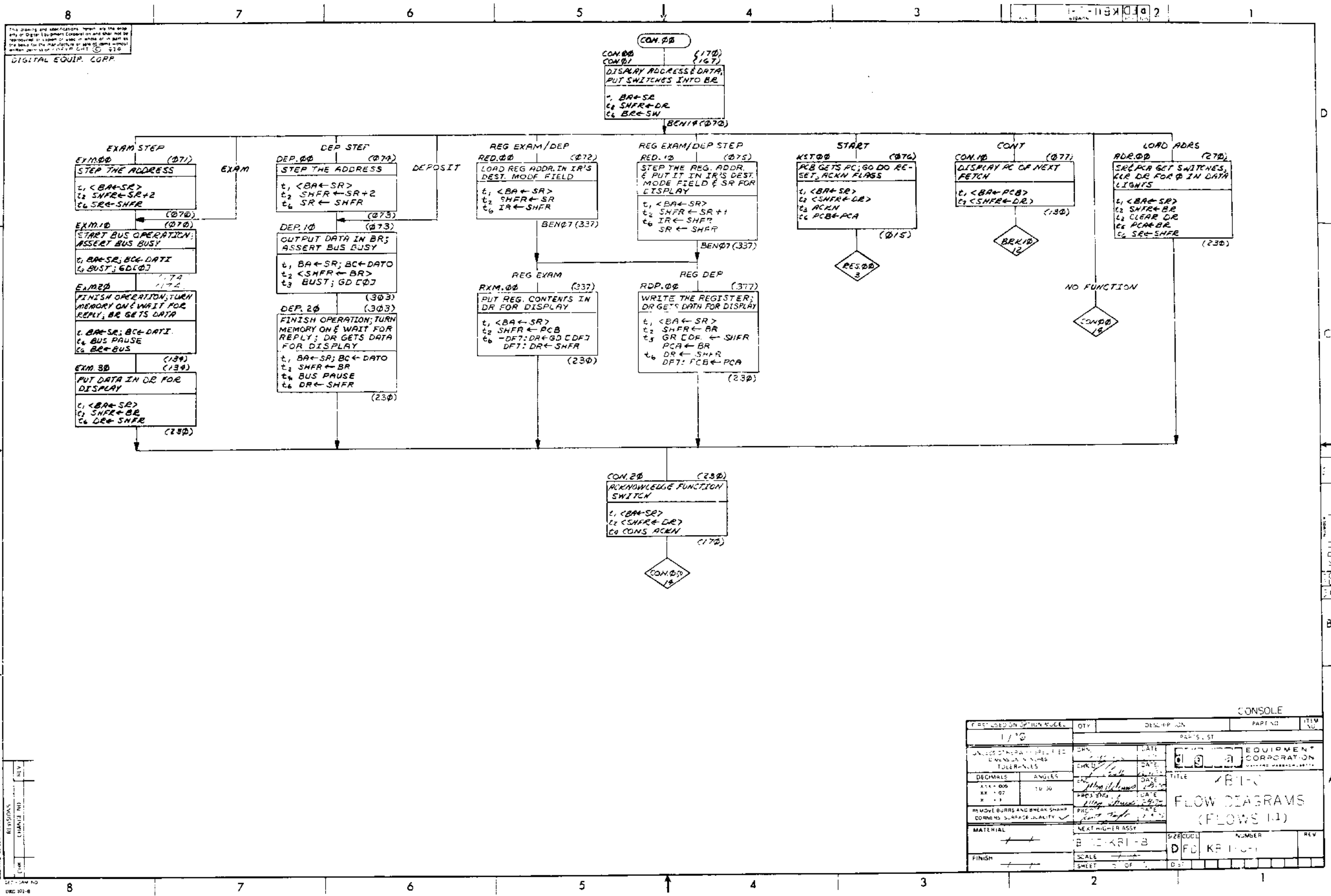
DIVIDE				
FIRST USE ONLY	QTY	DESCRIPTION	PART NO	ITEM NO
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES				
DEC. MA.S	ANG. L.S	DATE	EQUIPMENT CORPORATION	
XXX + 00	+ 0 30	DATE	CORPORATION	
8 + 1		DATE		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL	FINISH	SCALE	SIZE CODE	NUMBER
			D F D	K B I I - 1
NEXT HIGHER ASSY				
SHEET 1 OF 25				

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REV	CHG	REVISIONS

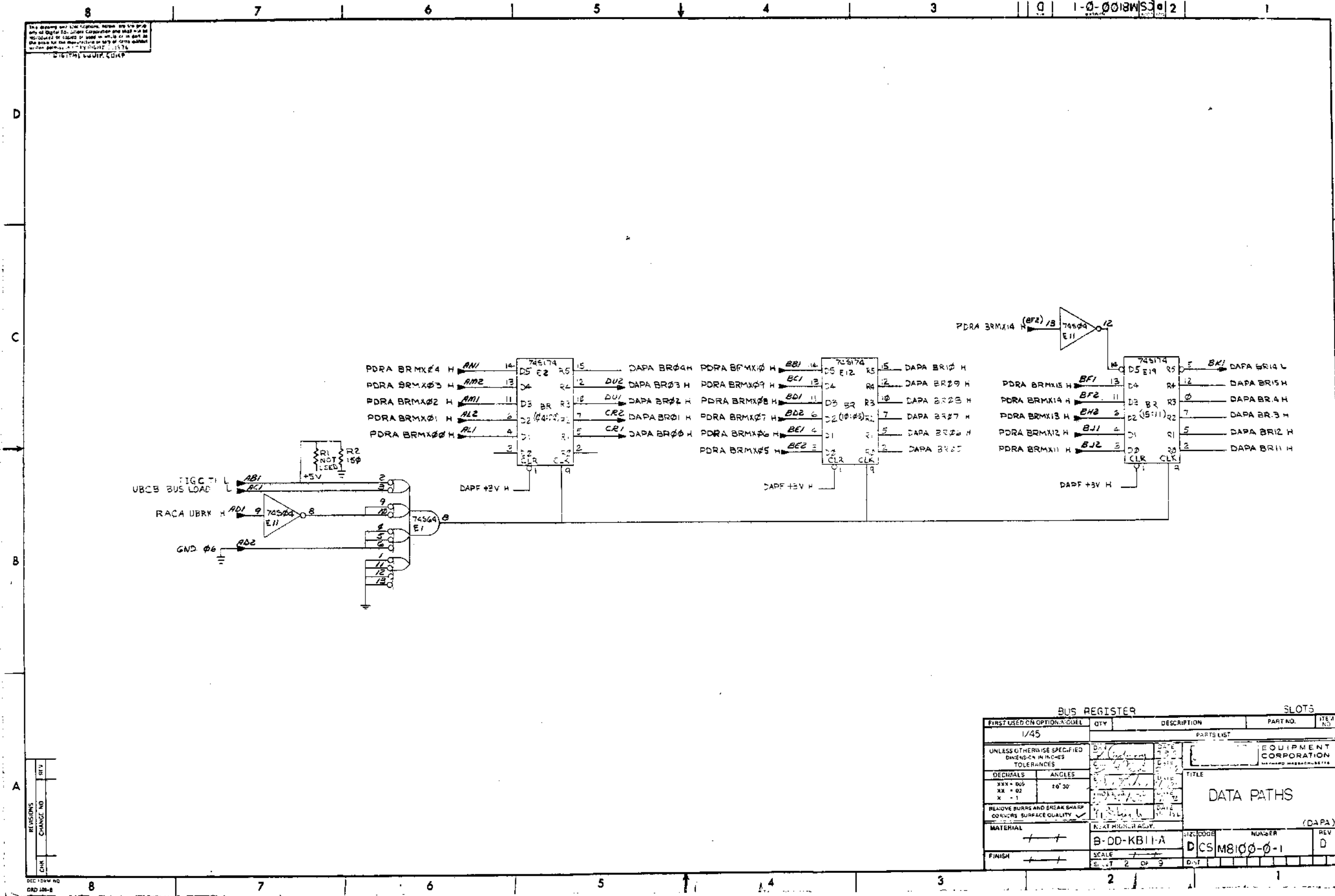
SERVICE SEQUENCE				
FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO	ITEM NO
11/70				
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES				
DECIMALS	ANGLES	DATE	EQUIPMENT CORPORATION	
XXX - 008	0° 30'	DATE	TITLE	
XX - 00		DATE	KBII-C	
X - 0		DATE	FLOW DIAGRAMS	
		DATE	(FLOWS 13)	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL	NEXT HIGHER ASSY			
	B-00-KBII-B	SIZE/CODE	NUMBER	REV.
FINISH	SCALE	D.F.D. KBII-C-1		
	SHEET 14 OF 15			



CONSOLE				
REF. USED ON OPTION NO.	QTY	DESCRIPTION	PART NO.	ITEM NO.
1/10		CONSOLE		
VALUES CONTAINED IN THESE DIMENSIONS ARE TOLERANCES		DATE		
DECIMALS	ANGLES	DATE		
1/10	10/30	DATE		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		DATE		
MATERIAL	NEXT HIGHER ASSY	DATE		
FINISH	SCALE	DATE		
	SHEET	DATE		

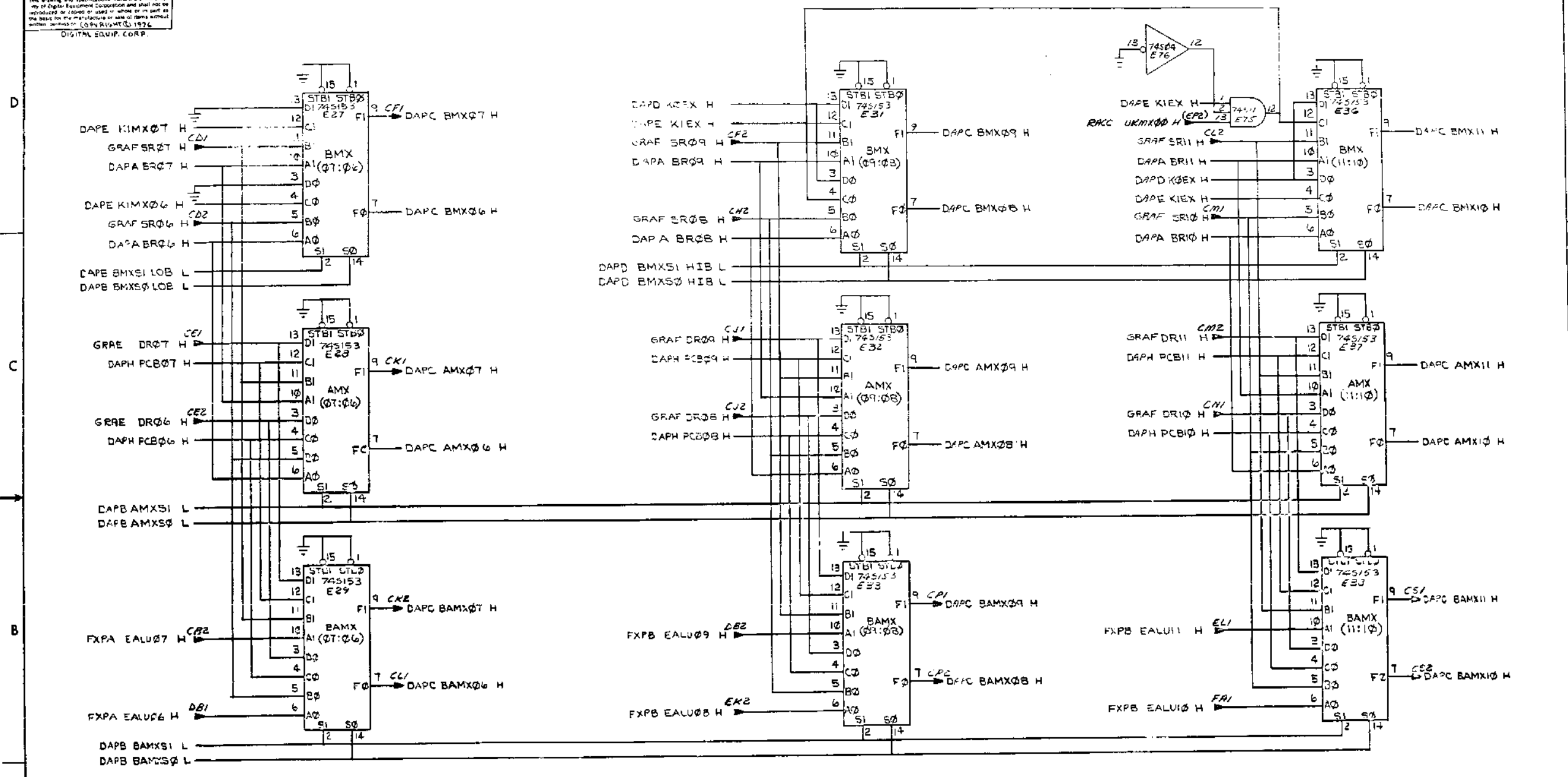
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BUS REGISTER		SLOTS	
FIRST USED ON OPTION MODEL	QTY	DESCRIPTION	PART NO.
1/45			
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES		EQUIPMENT CORPORATION	
DECIMALS	ANGLES	TITLE	
XXX - 005	10' 30"	DATA PATHS	
XX - 02		(DAPA)	
X - 1			
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY			
MATERIAL	FINISH		
FINISH			
MATERIAL		SIZE CODE	NUMBER
B-DD-KB11-A		DCS	M8100-0-1
SCALE		REV	D
SHEET 2 OF 9			

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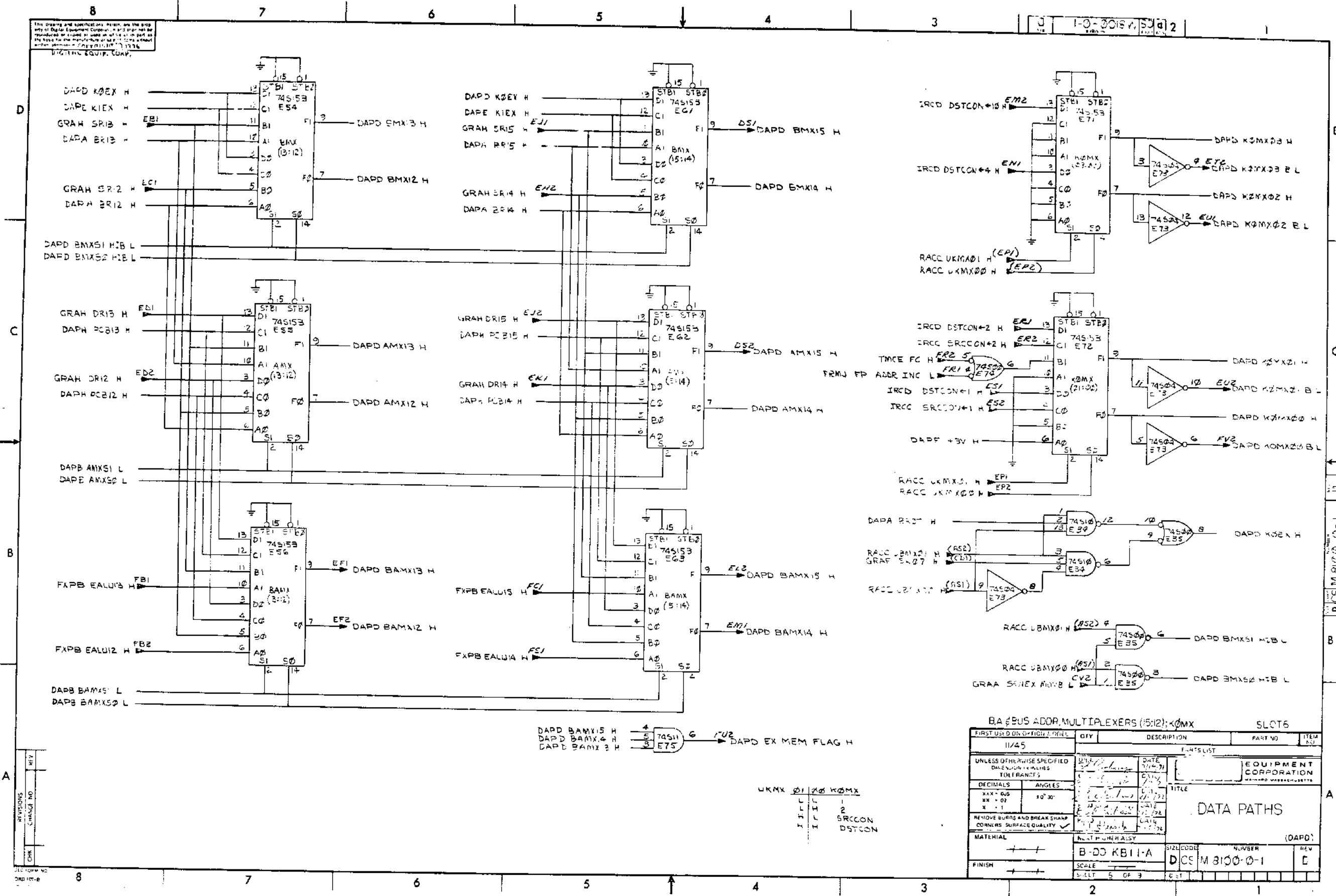


REV	
CHG	
REV	
CHG	

B, A, & BUS ADDR. MULTIPLEXERS (11:07)		SLOTS	
FIRST QUANTITY	QTY.	DESCRIPTION	PART NO.
1/45			
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES		EQUIPMENT CORPORATION	
TOLERANCES		MATERIAL	
DECIMALS	ANGLES	TITLE	
XXX + .05	XX - .02	DATA PATHS	
X - .1		(DAPC)	
REMOVE BURRS AND BREAK SHARP EDGES COLORS SURFACE QUALITY		NEXT HIGHER ASSY.	
MATERIAL		B-00-KB11-A	NUMBER
FINISH		DCS	MS100-0-1
		SCALE	REV
		SHEET 4 OF 9	0

440

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REV	
CHG	
NO	
DATE	

DAPD BAMX15 H
DAPD BAMX14 H
DAPD BAMX13 H

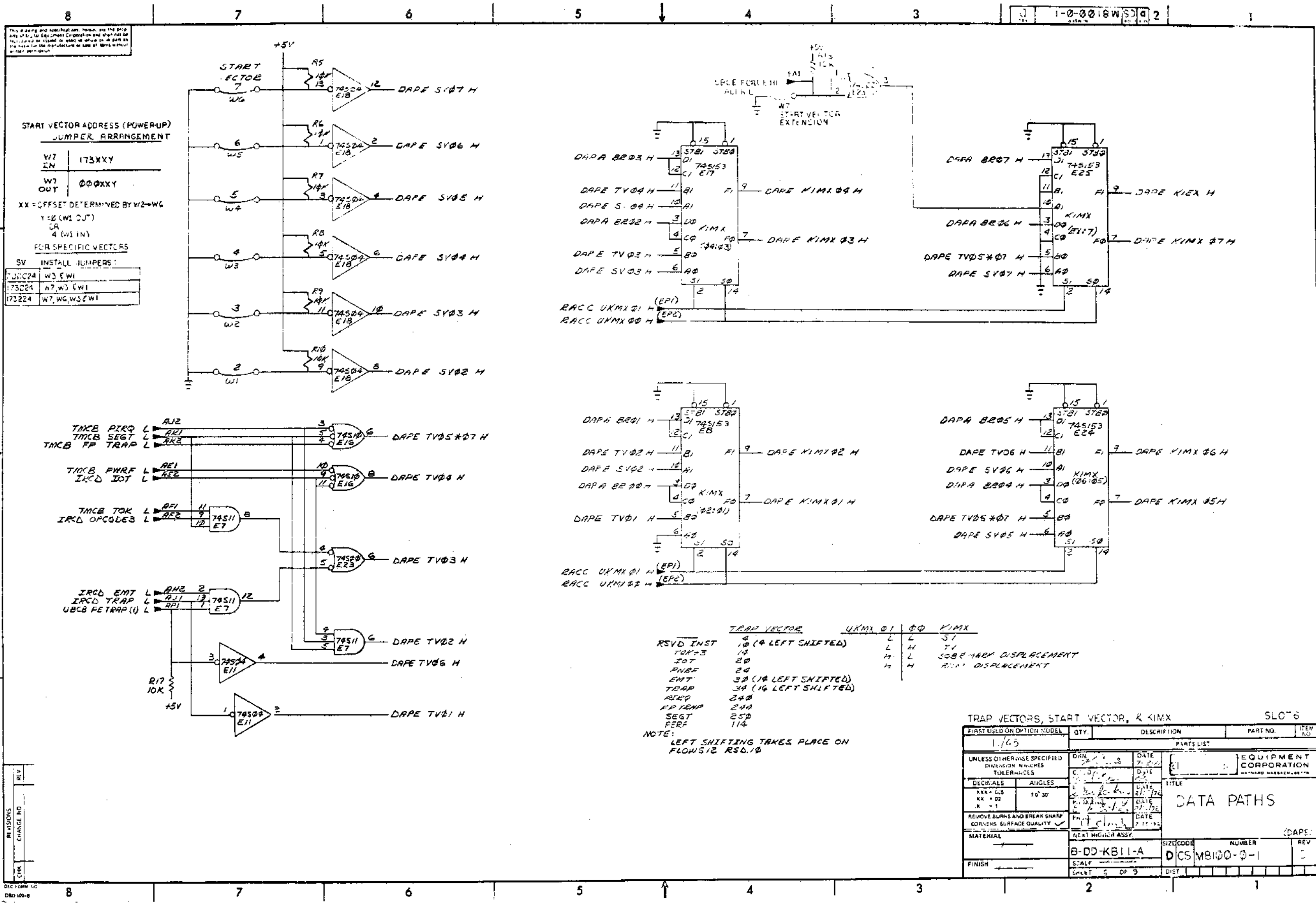
74S11 6 → FV2
E75

UKMX 01/20 KOMX

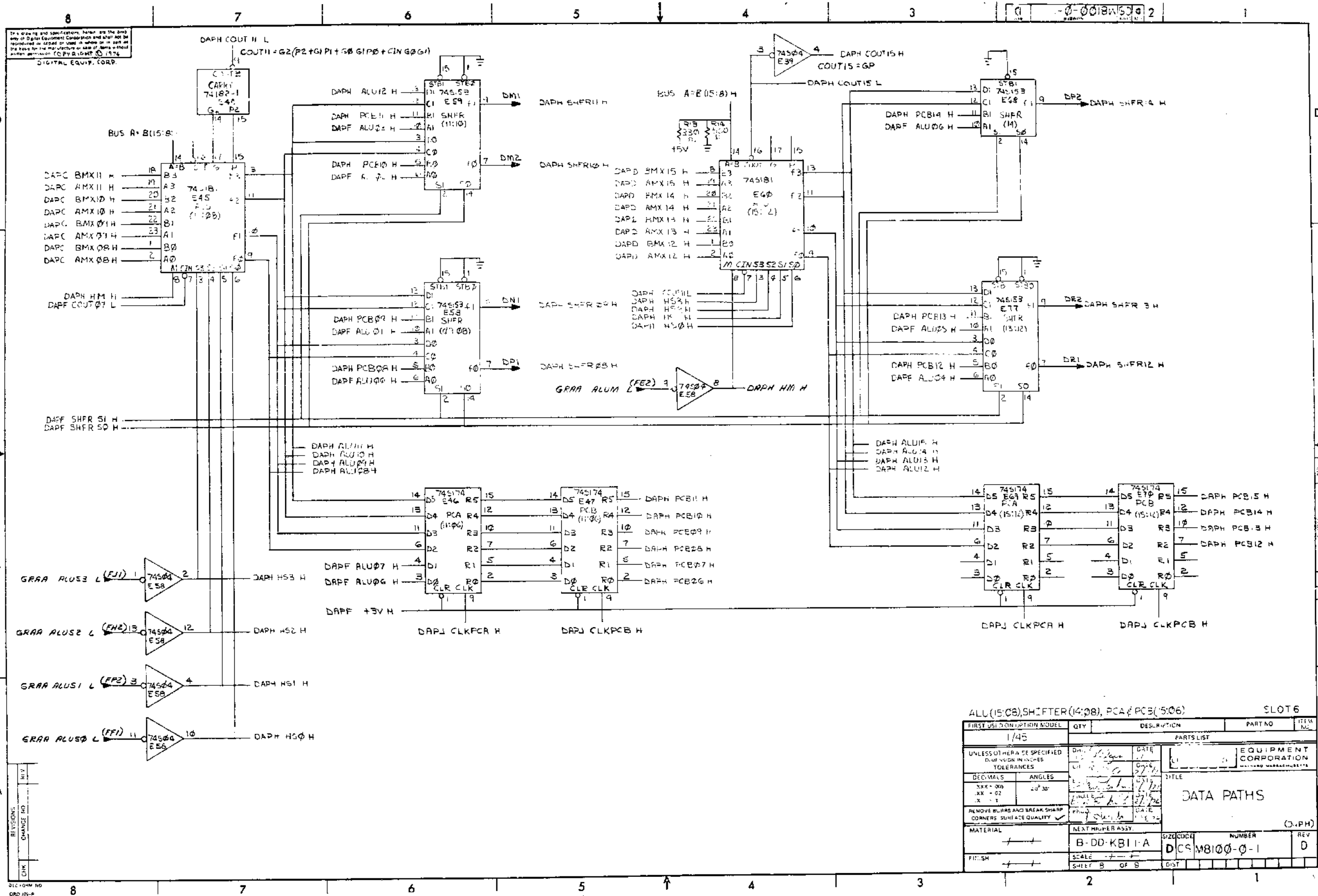
L	L	1
L	H	2
H	L	2
H	H	2

SRCCON
DSTCON

BA BUS ADDR MULTIPLEXERS (15:12) KOMX		SLOT6	
FIRST USED ON	QTY	DESCRIPTION	PART NO
11/45			
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES			
DECIMALS	ANGLES	TITLE	
XXX - 05	10° 30'	DATA PATHS	
XX - 02		EQUIPMENT CORPORATION	
X - 1		MILITARY STANDARD SPECIFICATIONS	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY			
MATERIAL			
FINISH			
SCALE		SIZE/CODE	NUMBER
3-ELT 5 OF 9		DJCS M 8100-0-1	REV
		REV	E



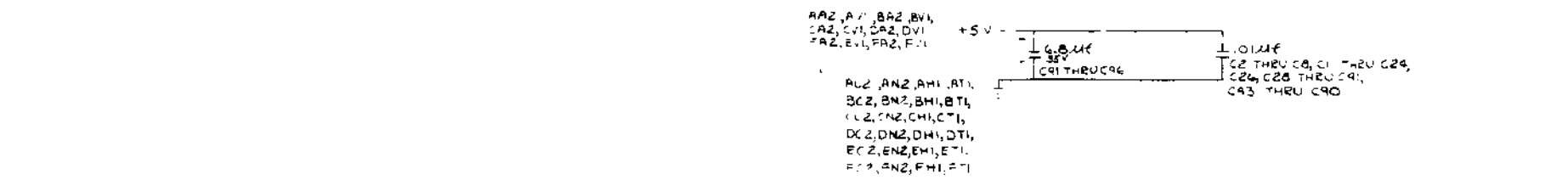
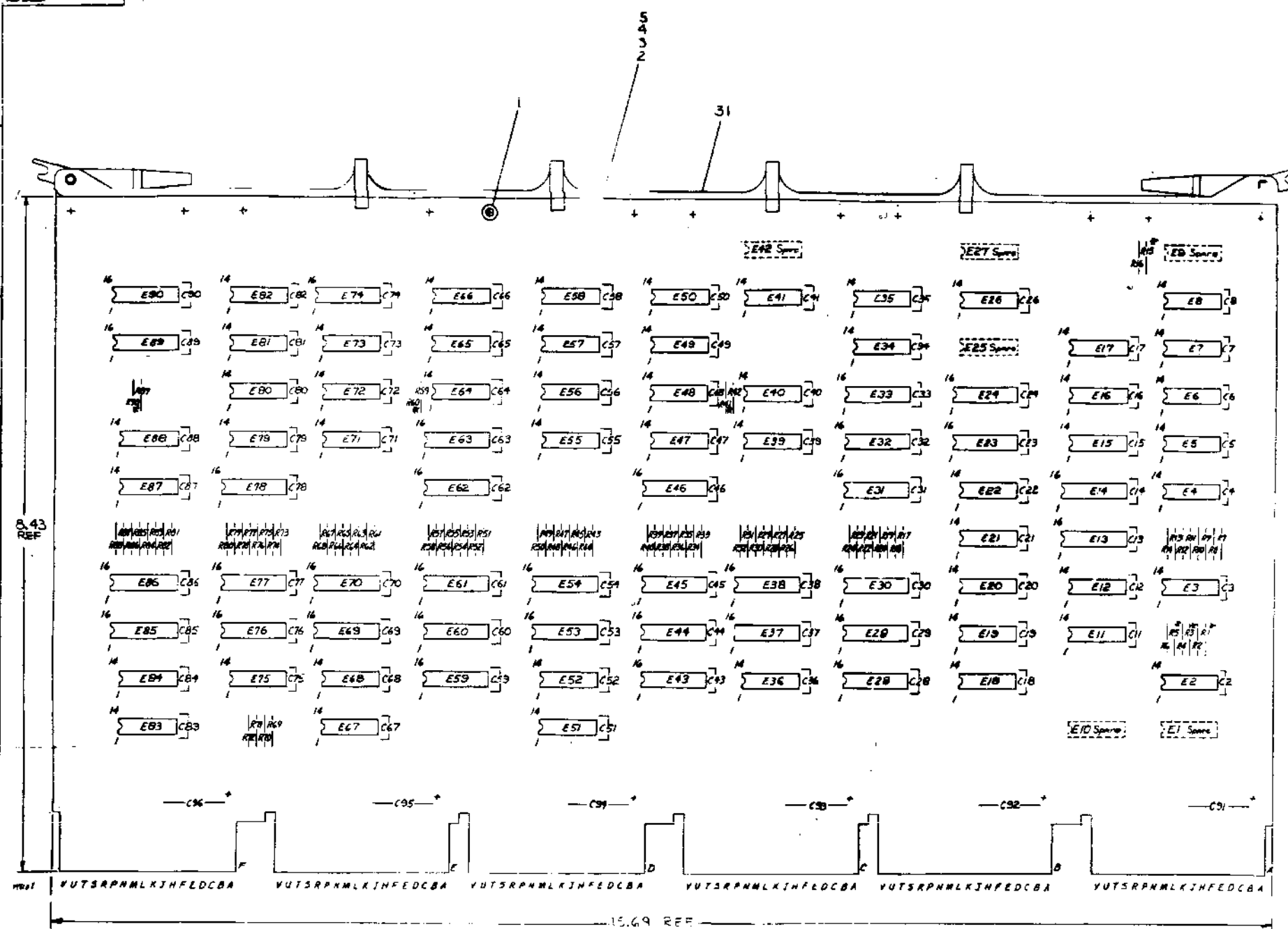
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1. UNLESS OTHERWISE NOTED, RESISTORS ARE 1/4 WATT, 5% TOLERANCE. CAPACITORS ARE 50VDC, 5% TOLERANCE, UNLESS OTHERWISE NOTED.

NOTES:
 1. UNLESS OTHERWISE NOTED RESISTANCE IS IN OHMS & CAPACITANCE IS IN MICROFARADS. CAPACITORS WITHOUT VALUE NOTED ARE .01MFD.
 2. RESISTORS MARKED WITH ASTERISK ARE NOT USED.
 3. LOCATIONS MARKED E1, E9, E10, E25, E27, E42 ARE SPARES.



AAZ, A1, BA2, BV1, CA2, CV1, CA2, DV1, FAZ, EV1, FA2, FV1

AL2, AN2, AH1, AT1, BC2, BN2, BH1, BT1, CL2, CN2, CH1, CT1, DC2, DN2, DH1, DT1, EC2, EN2, EH1, ET1, FV2, AN2, FH1, FT1

6.0MΩ
 C01 THRU C06

1.01MΩ
 C2 THRU C4, C11 THRU C24, C26, C28 THRU C41, C43 THRU C49

DEC	DM 6598-AD	Q	16
DEC	3-01A	Q	16
DEC	745174	Q	16
DEC	745158	Q	16
DEC	745153	Q	15
DEC	745194	Q	16
DEC	745112	Q	16
DEC	74191	Q	16

QTY	DESCRIPTION	REF	QTY	DESCRIPTION	REF
1	E7*	IC DEC, DM6598-AD	25	CB3M	29
8	E1, E2, E3, E4, E5, E6, E7, E8, E9, E10	IC DEC, 3101A	1910	658	29
4	E25, E26, E27, E28	IC DEC, 745174	1910	558	28
3	E29, E30, E31	IC DEC, 745174	1910	570	27
16	E32, E33, E34, E35, E36, E37, E38, E39, E40, E41, E42, E43, E44, E45, E46, E47, E48, E49, E50, E51, E52, E53, E54, E55, E56, E57, E58, E59, E60, E61, E62, E63, E64, E65, E66, E67, E68, E69, E70, E71, E72, E73, E74, E75, E76, E77, E78, E79, E80, E81, E82, E83, E84, E85, E86, E87, E88, E89, E90, E91, E92, E93, E94, E95, E96, E97, E98, E99, E100	IC DEC, 745158	1910	549	26
4	E2, E3, E4, E5, E6, E7, E8, E9, E10, E11, E12, E13, E14, E15, E16, E17, E18, E19, E20, E21, E22, E23, E24, E25, E26, E27, E28, E29, E30, E31, E32, E33, E34, E35, E36, E37, E38, E39, E40, E41, E42, E43, E44, E45, E46, E47, E48, E49, E50, E51, E52, E53, E54, E55, E56, E57, E58, E59, E60, E61, E62, E63, E64, E65, E66, E67, E68, E69, E70, E71, E72, E73, E74, E75, E76, E77, E78, E79, E80, E81, E82, E83, E84, E85, E86, E87, E88, E89, E90, E91, E92, E93, E94, E95, E96, E97, E98, E99, E100	IC DEC, 745158	1910	549	26
1	E6	IC DEC, 745112	1910	587	25
1	E6	IC DEC, 745112	1910	587	25
2	E58, E77	IC DEC, 745174	1910	566	23
11	E1, E2, E3, E4, E5, E6, E7, E8, E9, E10, E11, E12, E13, E14, E15, E16, E17, E18, E19, E20, E21, E22, E23, E24, E25, E26, E27, E28, E29, E30, E31, E32, E33, E34, E35, E36, E37, E38, E39, E40, E41, E42, E43, E44, E45, E46, E47, E48, E49, E50, E51, E52, E53, E54, E55, E56, E57, E58, E59, E60, E61, E62, E63, E64, E65, E66, E67, E68, E69, E70, E71, E72, E73, E74, E75, E76, E77, E78, E79, E80, E81, E82, E83, E84, E85, E86, E87, E88, E89, E90, E91, E92, E93, E94, E95, E96, E97, E98, E99, E100	IC DEC, 74564	1910	542	22
3	C0, C1, C2	IC DEC, 74528	1910	537	21
7	E1, E2, E3, E4, E5, E6, E7, E8, E9, E10, E11, E12, E13, E14, E15, E16, E17, E18, E19, E20, E21, E22, E23, E24, E25, E26, E27, E28, E29, E30, E31, E32, E33, E34, E35, E36, E37, E38, E39, E40, E41, E42, E43, E44, E45, E46, E47, E48, E49, E50, E51, E52, E53, E54, E55, E56, E57, E58, E59, E60, E61, E62, E63, E64, E65, E66, E67, E68, E69, E70, E71, E72, E73, E74, E75, E76, E77, E78, E79, E80, E81, E82, E83, E84, E85, E86, E87, E88, E89, E90, E91, E92, E93, E94, E95, E96, E97, E98, E99, E100	IC DEC, 74511	1910	537	20
5	E1, E2, E3, E4, E5, E6, E7, E8, E9, E10, E11, E12, E13, E14, E15, E16, E17, E18, E19, E20, E21, E22, E23, E24, E25, E26, E27, E28, E29, E30, E31, E32, E33, E34, E35, E36, E37, E38, E39, E40, E41, E42, E43, E44, E45, E46, E47, E48, E49, E50, E51, E52, E53, E54, E55, E56, E57, E58, E59, E60, E61, E62, E63, E64, E65, E66, E67, E68, E69, E70, E71, E72, E73, E74, E75, E76, E77, E78, E79, E80, E81, E82, E83, E84, E85, E86, E87, E88, E89, E90, E91, E92, E93, E94, E95, E96, E97, E98, E99, E100	IC DEC, 74518	1910	526	19
5	E1, E2, E3, E4, E5, E6, E7, E8, E9, E10, E11, E12, E13, E14, E15, E16, E17, E18, E19, E20, E21, E22, E23, E24, E25, E26, E27, E28, E29, E30, E31, E32, E33, E34, E35, E36, E37, E38, E39, E40, E41, E42, E43, E44, E45, E46, E47, E48, E49, E50, E51, E52, E53, E54, E55, E56, E57, E58, E59, E60, E61, E62, E63, E64, E65, E66, E67, E68, E69, E70, E71, E72, E73, E74, E75, E76, E77, E78, E79, E80, E81, E82, E83, E84, E85, E86, E87, E88, E89, E90, E91, E92, E93, E94, E95, E96, E97, E98, E99, E100	IC DEC, 74585	1910	535	18
10	E1, E2, E3, E4, E5, E6, E7, E8, E9, E10, E11, E12, E13, E14, E15, E16, E17, E18, E19, E20, E21, E22, E23, E24, E25, E26, E27, E28, E29, E30, E31, E32, E33, E34, E35, E36, E37, E38, E39, E40, E41, E42, E43, E44, E45, E46, E47, E48, E49, E50, E51, E52, E53, E54, E55, E56, E57, E58, E59, E60, E61, E62, E63, E64, E65, E66, E67, E68, E69, E70, E71, E72, E73, E74, E75, E76, E77, E78, E79, E80, E81, E82, E83, E84, E85, E86, E87, E88, E89, E90, E91, E92, E93, E94, E95, E96, E97, E98, E99, E100	IC DEC, 74589	1910	534	17
5	E1, E2, E3, E4, E5, E6, E7, E8, E9, E10, E11, E12, E13, E14, E15, E16, E17, E18, E19, E20, E21, E22, E23, E24, E25, E26, E27, E28, E29, E30, E31, E32, E33, E34, E35, E36, E37, E38, E39, E40, E41, E42, E43, E44, E45, E46, E47, E48, E49, E50, E51, E52, E53, E54, E55, E56, E57, E58, E59, E60, E61, E62, E63, E64, E65, E66, E67, E68, E69, E70, E71, E72, E73, E74, E75, E76, E77, E78, E79, E80, E81, E82, E83, E84, E85, E86, E87, E88, E89, E90, E91, E92, E93, E94, E95, E96, E97, E98, E99, E100	IC DEC, 74588	1910	532	16
3	E1, E2, E3	IC DEC, 74191	1910	096	15
1	E47	IC DEC, 74558	1910	060	14
2	E55, E76	IC DEC, 74538	1910	037	13
2	R18, R19	RES, 1/4W, 100Ω, 5%	1301	101	12
32	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, 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	RES, 200Ω, 1/4W, 5%	1301	24	11
4	R0, R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, 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	RES, 500Ω, 1/4W, 5%	1301	80	10
7	R0, R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, 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	RES, 150Ω, 1/4W, 5%	1300	250	9
38	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, 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	RES, 300Ω, 1/4W, 5%	1300	295	8
84	C0, C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, C45, C46, C47, C48, C49, C50, C51, C52, C53, C54, C55, C56, C57, C58, C59, C60, C61, C62, C63, C64, C65, C66, C67, C68, C69, C70, C71, C72, C73, C74, C75, C76, C77, C78, C79, C80, C81, C82, C83, C84, C85, C86, C87, C88, C89, C90, C91, C92, C93, C94, C95, C96, C97, C98, C99, C100	CAP, 0.01μF, 50V, 5%	1001	140	7
4	C1, C2	CAP, 0.01μF, 50V, 5%	1000	047	6
1	ETCHED CIRCUIT BOARD		500	807	5
1	1/2" X 1/2" X 0.0625" ALUMINUM		1	1	4
1	1/2" X 1/2" X 0.0625" ALUMINUM		1	1	3
1	1/2" X 1/2" X 0.0625" ALUMINUM		1	1	2
1	1/2" X 1/2" X 0.0625" ALUMINUM		1	1	1

SEMICONDUCTOR CONVERSION CHART

DEC NO EIA NO DEC NO EIA NO

1 271 1 271

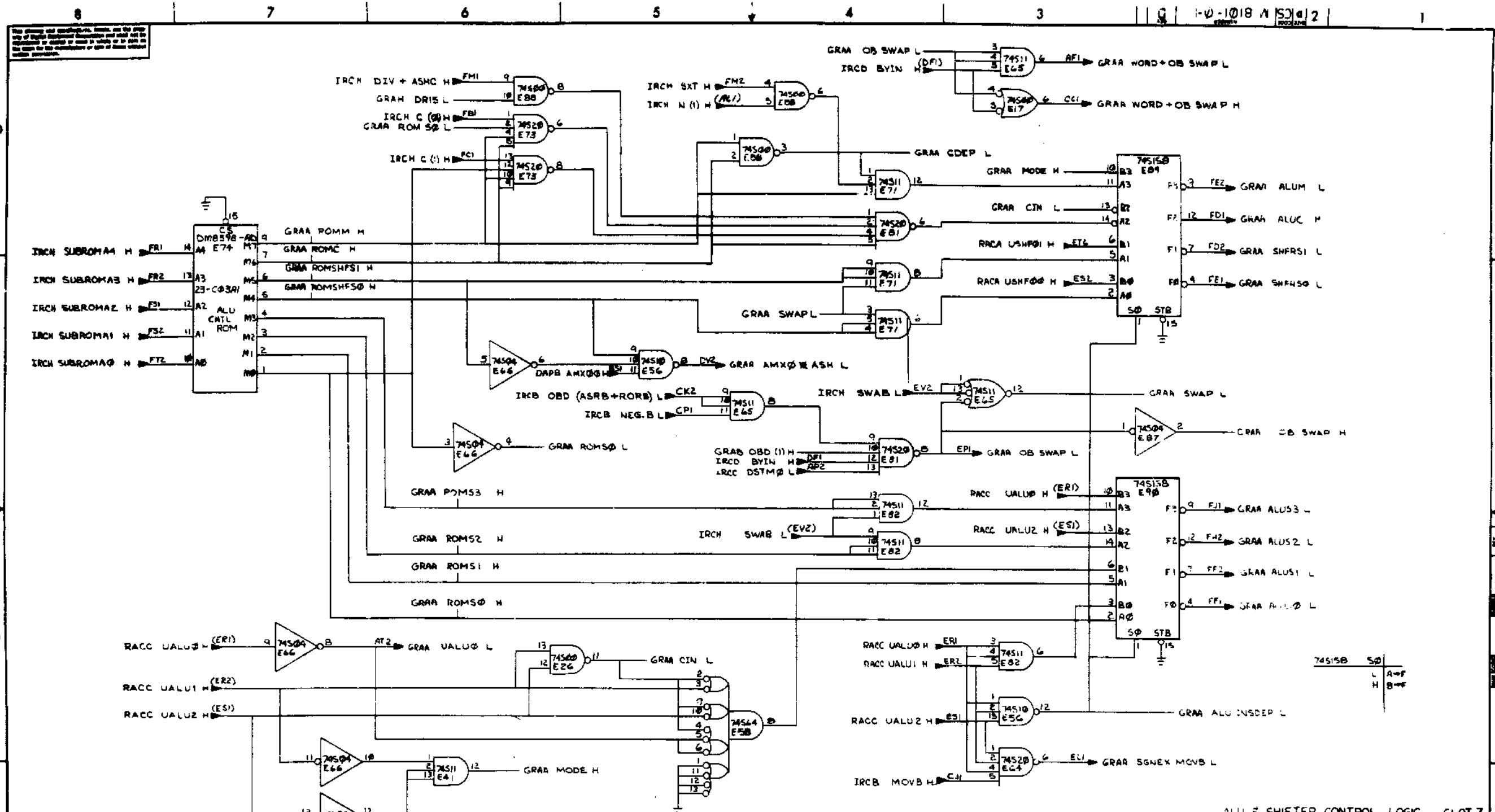
1 19 1 19

EQUIPMENT CORPORATION
 GENERAL REGS.
 & ALU. CNTL.

B-20-KB11-0

EKSMB01-0-1

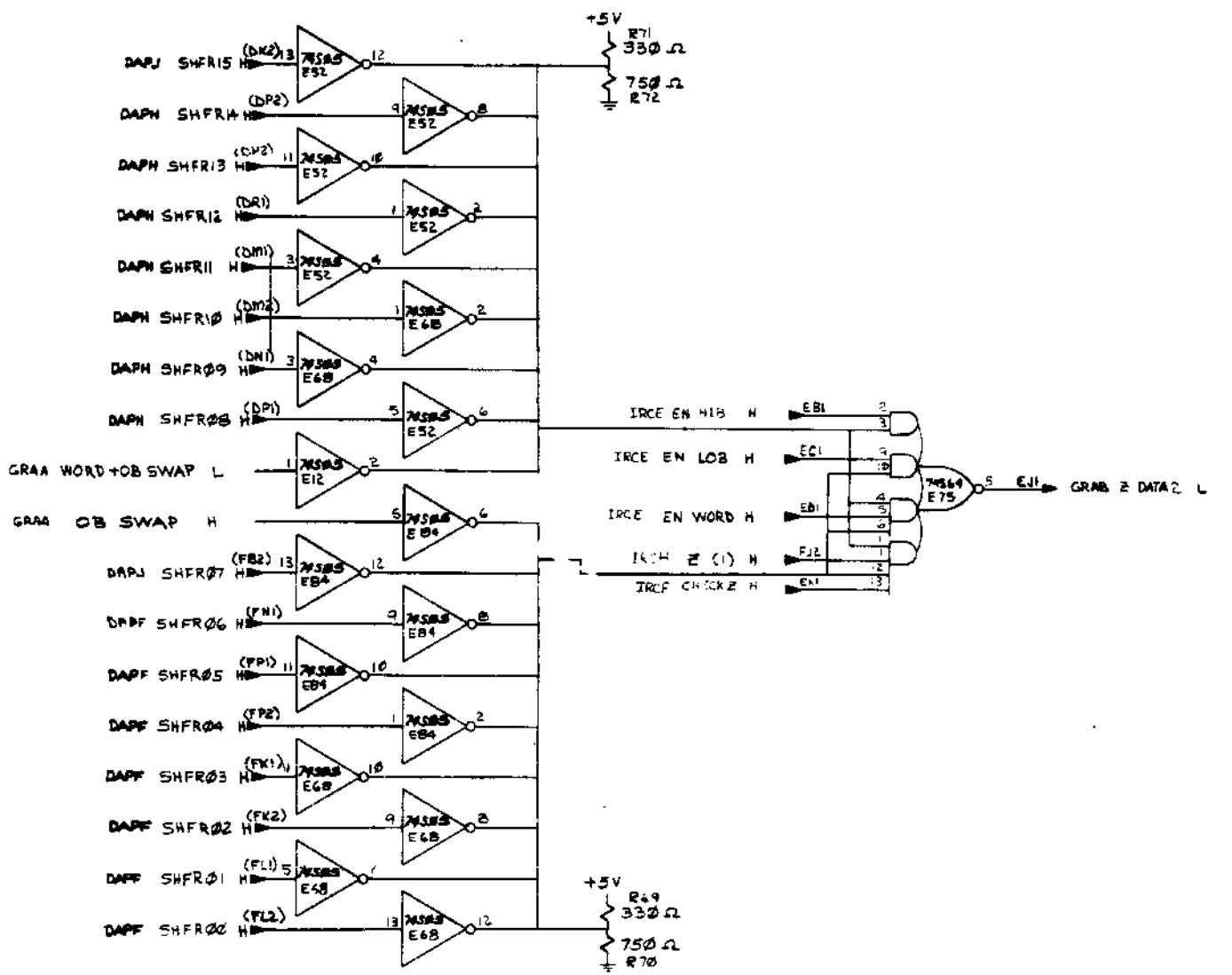
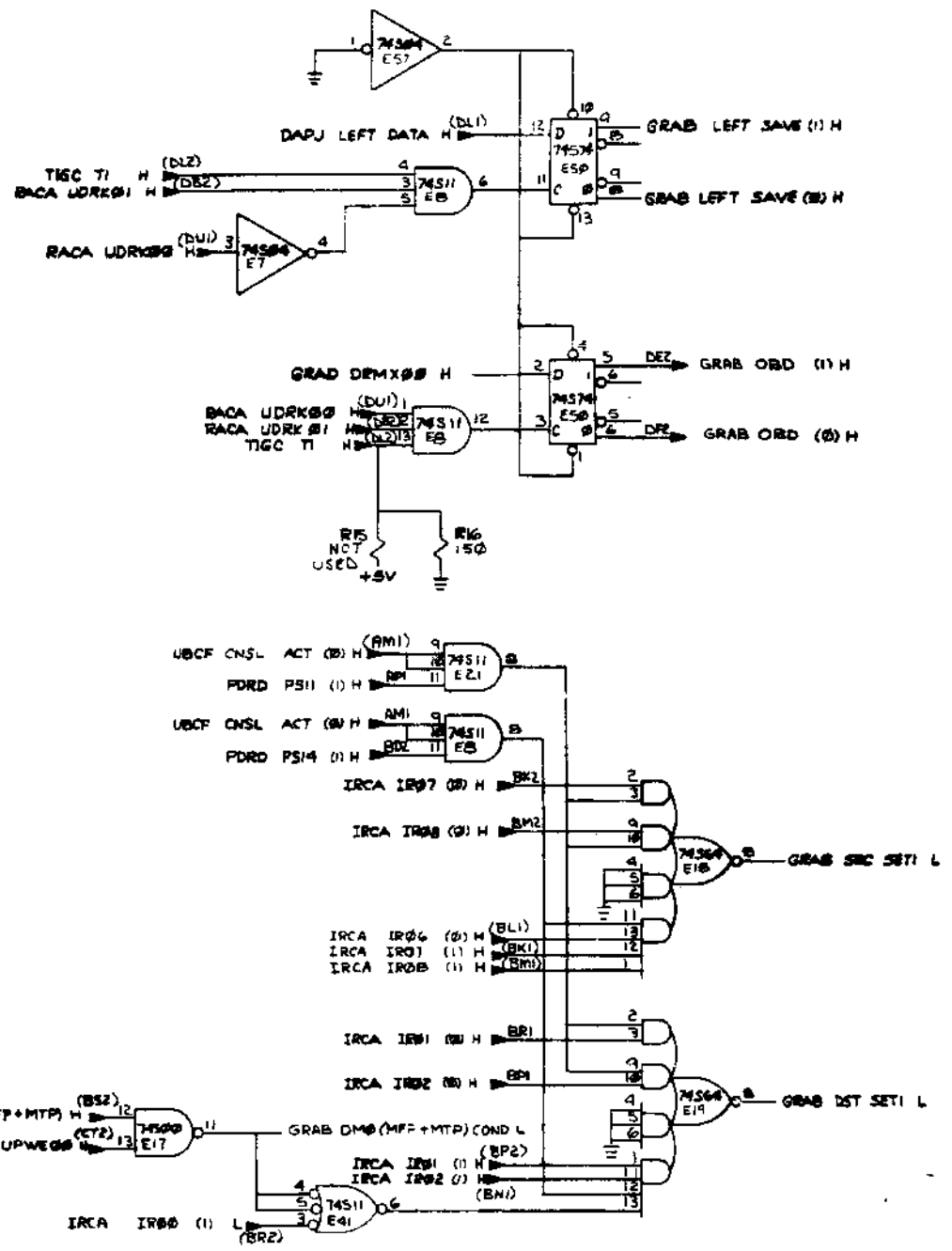
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ALU & SHIFTER CONTROL LOGIC SLOT 7

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.
11/45			
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES	DATE 6-25-77	EQUIPMENT CORPORATION	
DECIMALS	DATE		
ANGLES	DATE	TITLE GENERAL REGS & ALU CNTL (GRAM)	
XXX - 88 XX - 87 X - 1	DATE		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	DATE	MATERIAL NEXT HIGHER Assy.	
FINISH	DATE	B-00-KB1-0	REV. D
SHEET 2 OF 10	DATE	DCS M8101-0-1	

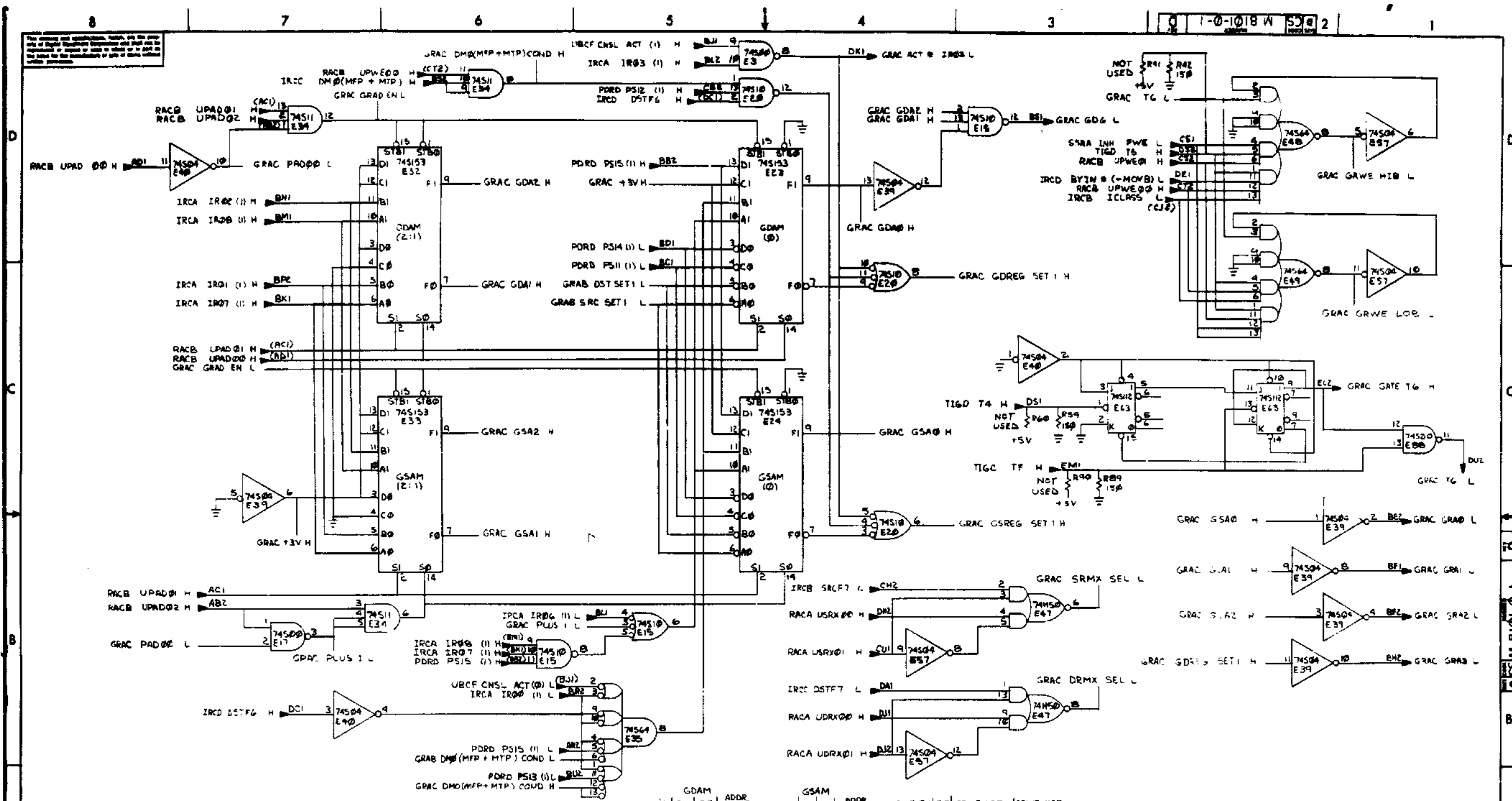
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SHIFTER = 0 DETECTOR & MSC. LOGIC SLOT 7

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/45				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DATE 7-15-71	DATE 7-15-71	EQUIPMENT CORPORATION	
DECIMALS ANGLES	DATE 2-28-72	DATE 2-28-72		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	DATE 7-15-71	DATE 7-15-71	GENERAL REGS. *ALU CNTL	
MATERIAL	NEXT HIGHER ASBY.	SIZE CODE	NUMBER	REV.
FINISH	B-00-KB11-3	DCS M8101-0-1		
SHEET 2 OF 10	CHIT.			

48



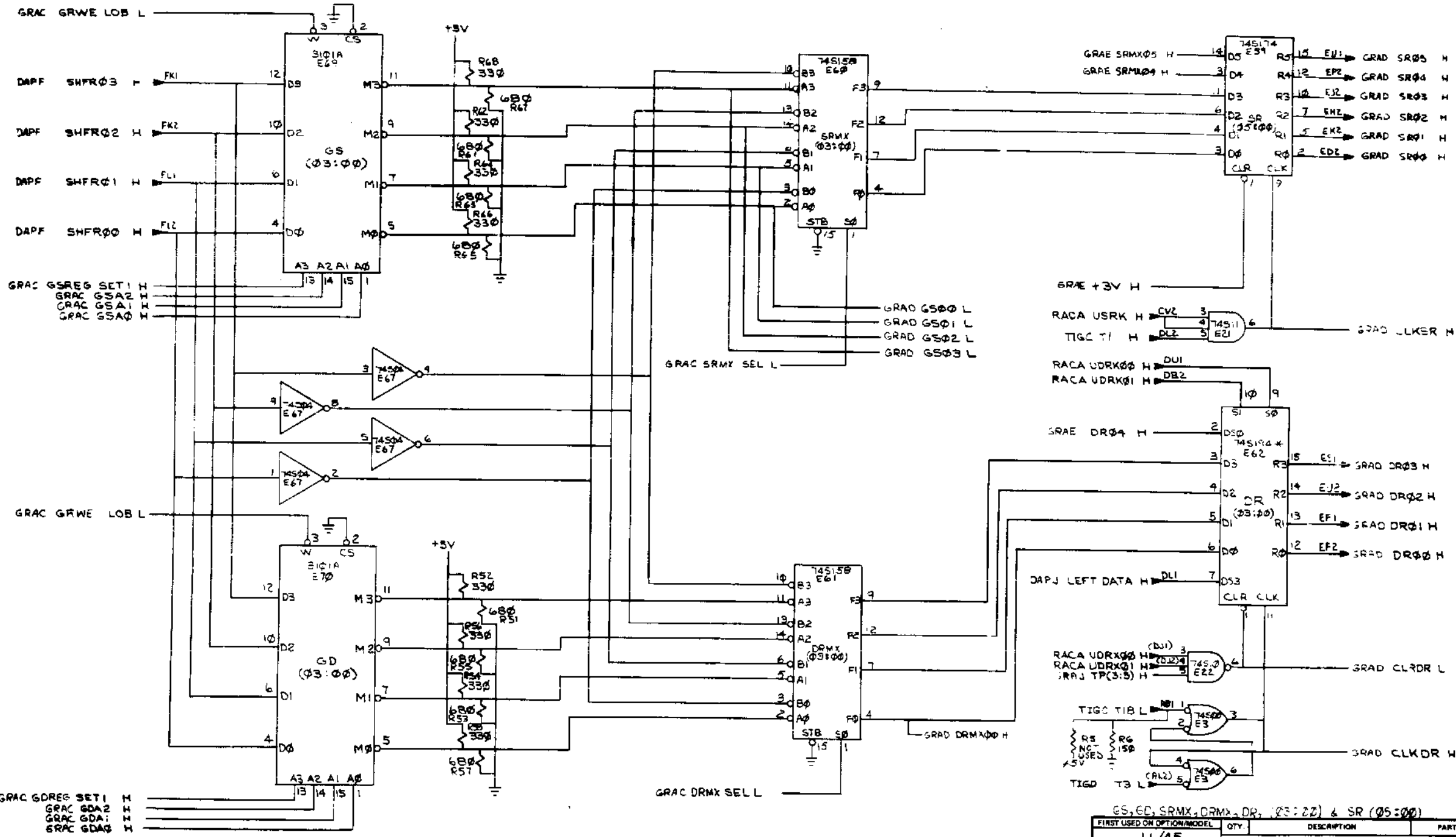
GDAM				GSAM				UPWE		GRWE LOB		GRWE HIB	
UPAD	S1	S0	ADDR OUTPUT	UPAD	S1	S0	ADDR OUTPUT	0	1	0	1	0	1
0	L	L	SF	0	L	L	SF	L	L	L	L	DONT WRITE	DONT WRITE
4	L	L	SFVI	4	L	L	SFVI	L	H	L	H	WRITE COND	WRITE COND
1	H	L	DF	5	L	H	DF	H	L	L	L	ZCLASS + BYTE INH	ZCLASS + BYTE INH
3	H	H	C	2	H	L	S	H	H	L	L	AMOVN (SIGN EATEN EN)	AMOVN (SIGN EATEN EN)
				7	H	H	C	H	H	H	H	WRITE	WRITE
								H	H	H	H	NOT USED	NOT USED

USRX		DRMX	
0	1	0	1
L	L	L	L
L	H	L	L
L	L	L	H
L	H	L	H
H	L	L	L
H	H	L	L

GENERAL REGS ADDR & WRITE PULSE CNTL				SLOT 7	
FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	REV.	DATE
11745					12/16/72
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES					
DECIMALS	ANGLES	TITLE			
±0.004	±0.00	GENERAL REGS & ALU CNTL			
REMOVES BURRS AND BREAK SHARP CORNERS SURFACE QUALITY					
MATERIAL			NEXT HIGHER ASSY		
B-DD-KB10			D		
FINISH			SCALE		
			SHEET 4 OF 10		

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1-2-19W50 2



GRAC GREG SET 1 H
GRAC GSA2 H
GRAC GSA1 H
GRAC GSA0 H

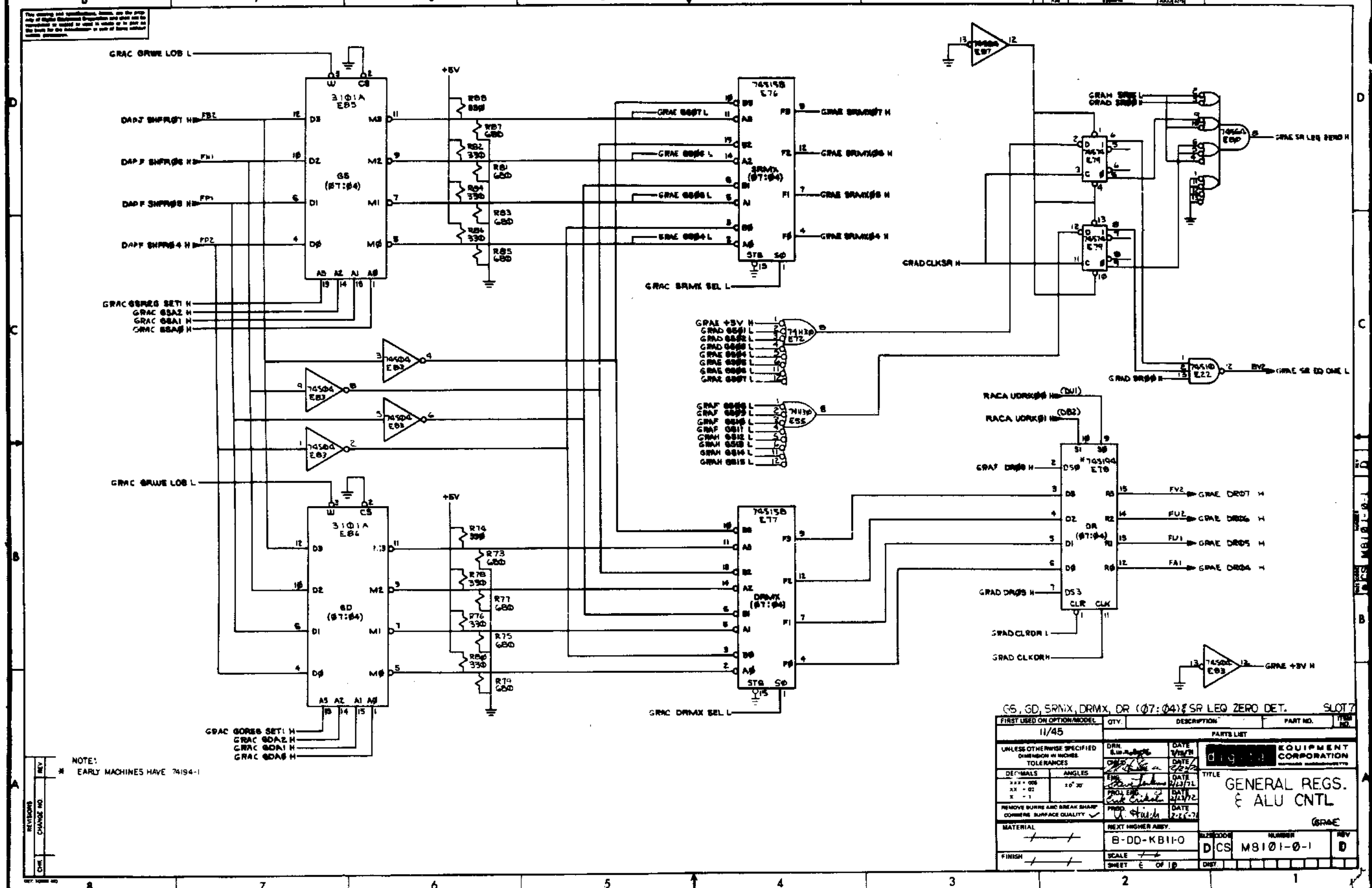
NOTE:
* EARLY MACHINES HAVE 74194-1

74S194	S1 S0	74S158	S0	OUTPUT
L	L	H	A	A → C
L	H	L	B	B → C
H	L	H	B	B → C
H	H	L	A	A → C
L	H	H	B	B → C
L	L	L	A	A → C
L	L	H	B	B → C

FIRST USED OR OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/45					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN	DATE	PARTS LIST	
DECIMALS	ANGLES	DATE	7-13-71	DIGITAL CORPORATION	
XXX-000	10° 30'	DATE	2/27/72	TITLE	
X-1		DATE	2/27/72	GENERAL REGS. \$ ALU. CNTL	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		DATE	2/27-72	(GRAD)	
MATERIAL	NEXT HIGHER ASSY	SIZE CODE	B-DD-KB1(+)	NUMBER	REV.
		SCALE		DCS MB101-0-1	D
FINISH		SHEET	5 OF 18	DIST	

REVISE
CHANGE NO.
DATE

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NOTE:
* EARLY MACHINES HAVE 74194-1

REV	CHANGE NO

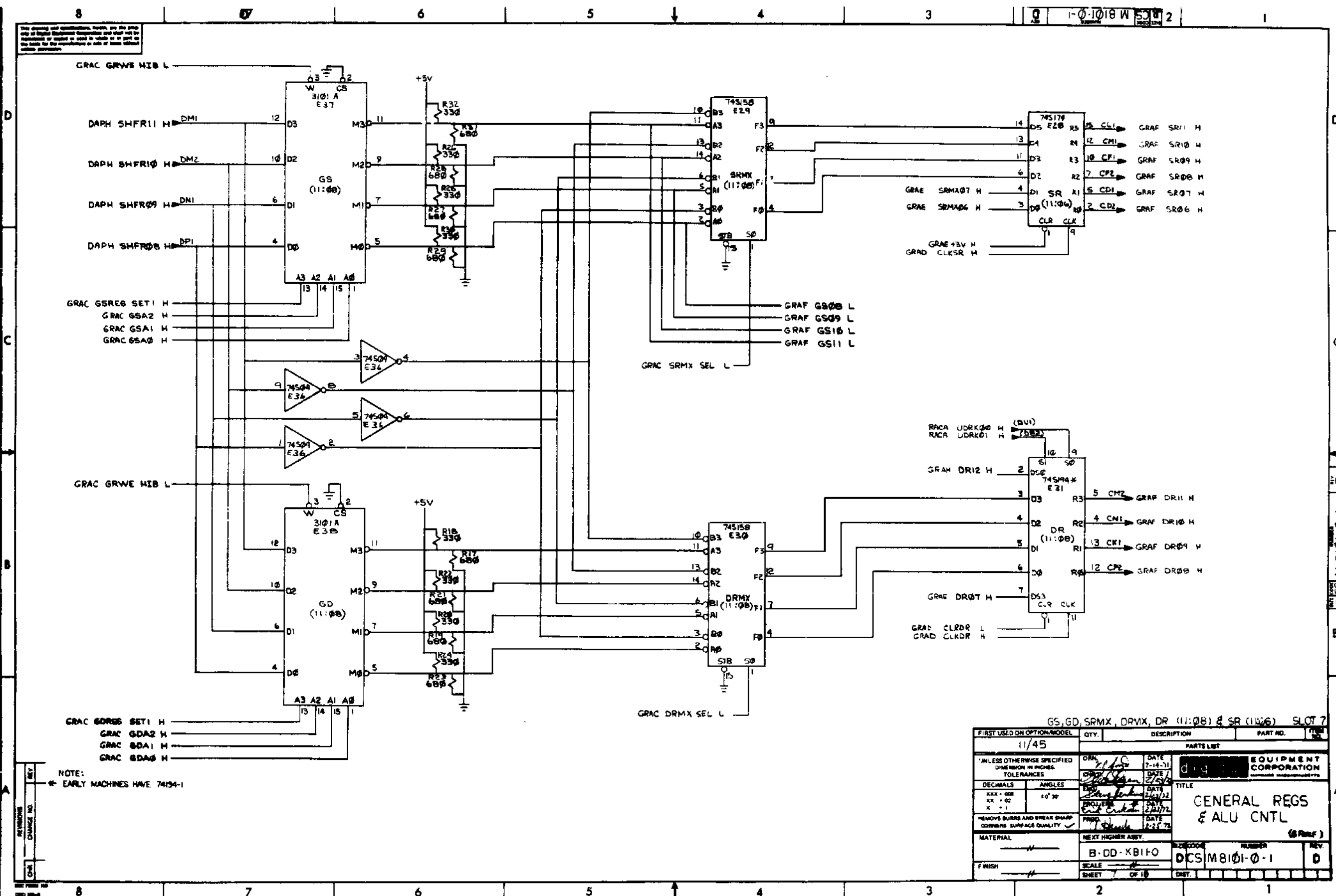
CS, GD, SRMX, DRMX, DR (07:04) & SR LEQ ZERO DET. SLOT 7

FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO.	ITEM NO.
11/45				
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES				
DECIMALS	ANGLES	DATE		
±0.005	±0° 30'	2/13/71		
±0.01		DATE		
±0.02		1/14/72		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL	NEXT HIGHER ARMY	DATE		
	B-DD-KB11-0	2/16/71		
FINISH	SCALE	TITLE		
	SHEET 5 OF 10	GENERAL REGS. & ALU CNTL		

REVISIONS: EQUIPMENT CORPORATION

REVISIONS: DCS M8101-0-1

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GRAC GSRES SET1 H
GRAC GSA2 H
GRAC GSA1 H
GRAC GSA0 H

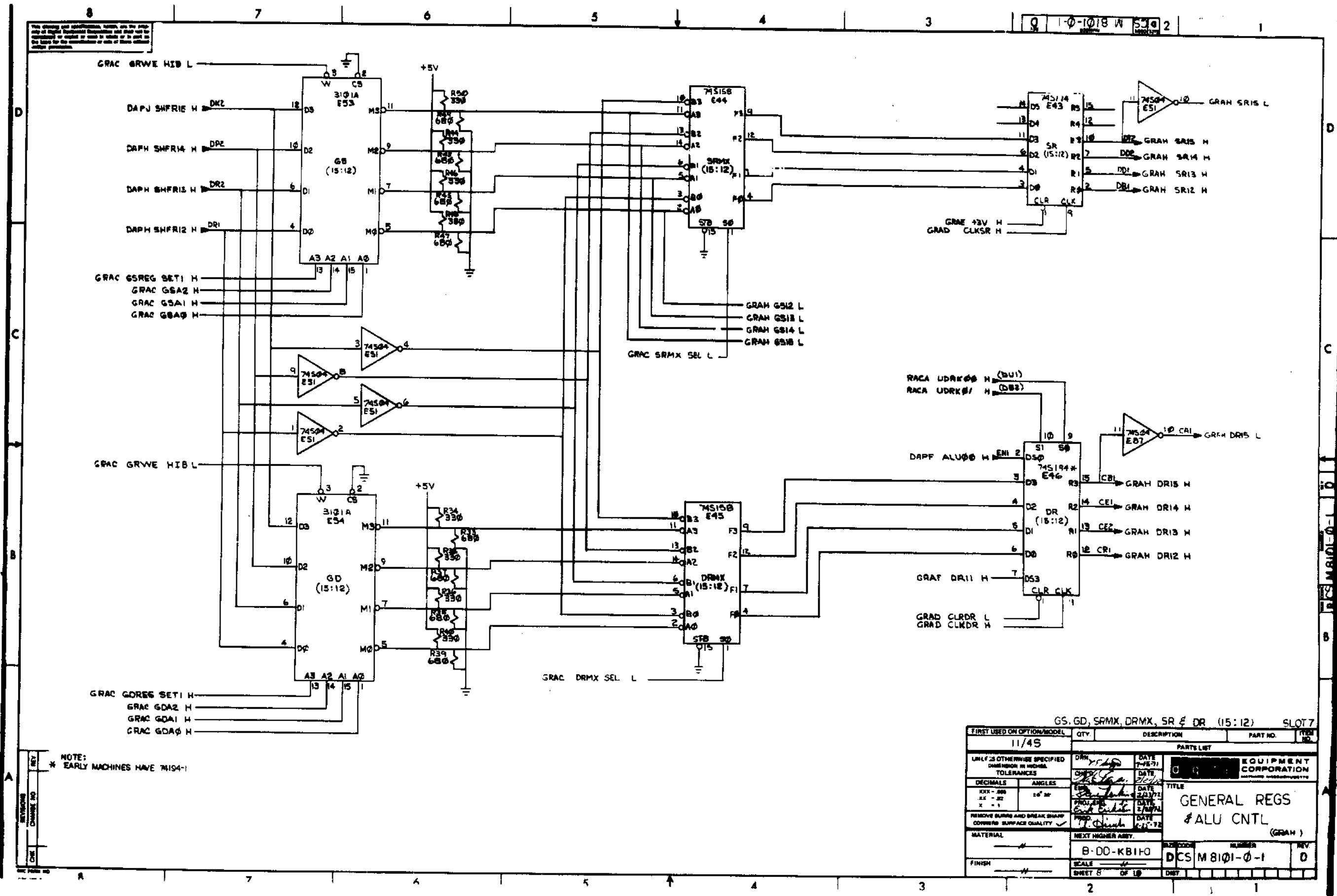
GRAC GDRS SET1 H
GRAC GDA2 H
GRAC GDA1 H
GRAC GDA0 H

NOTE:
* EARLY MACHINES HAVE 74154-1

REV
CHANGE NO
DATE

GS, GD, SRMX, DRMX, DR (11:08) & SR (10:06) SLOT 7

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	FILE NO.
11/45				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES		DATE 7-14-71	EQUIPMENT CORPORATION CORPORATION	
DECIMALS	ANGLES	DATE 7/2/71		
XXX - 000	10' 30"	DATE 2/1/72	TITLE GENERAL REGS & ALU CNTL	
XX - 00		DATE 2/1/72		
REMOVES BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		DATE 2-28-72	DRAWN BY PROJECT CHECKED BY DATE	
		DATE 2-28-72		
MATERIAL	NEXT HIGHER ASSY.	SCALE B-DD-KB1FO		
FINISH		DCS M8101-0-1		
		SHEET 7 OF 10		



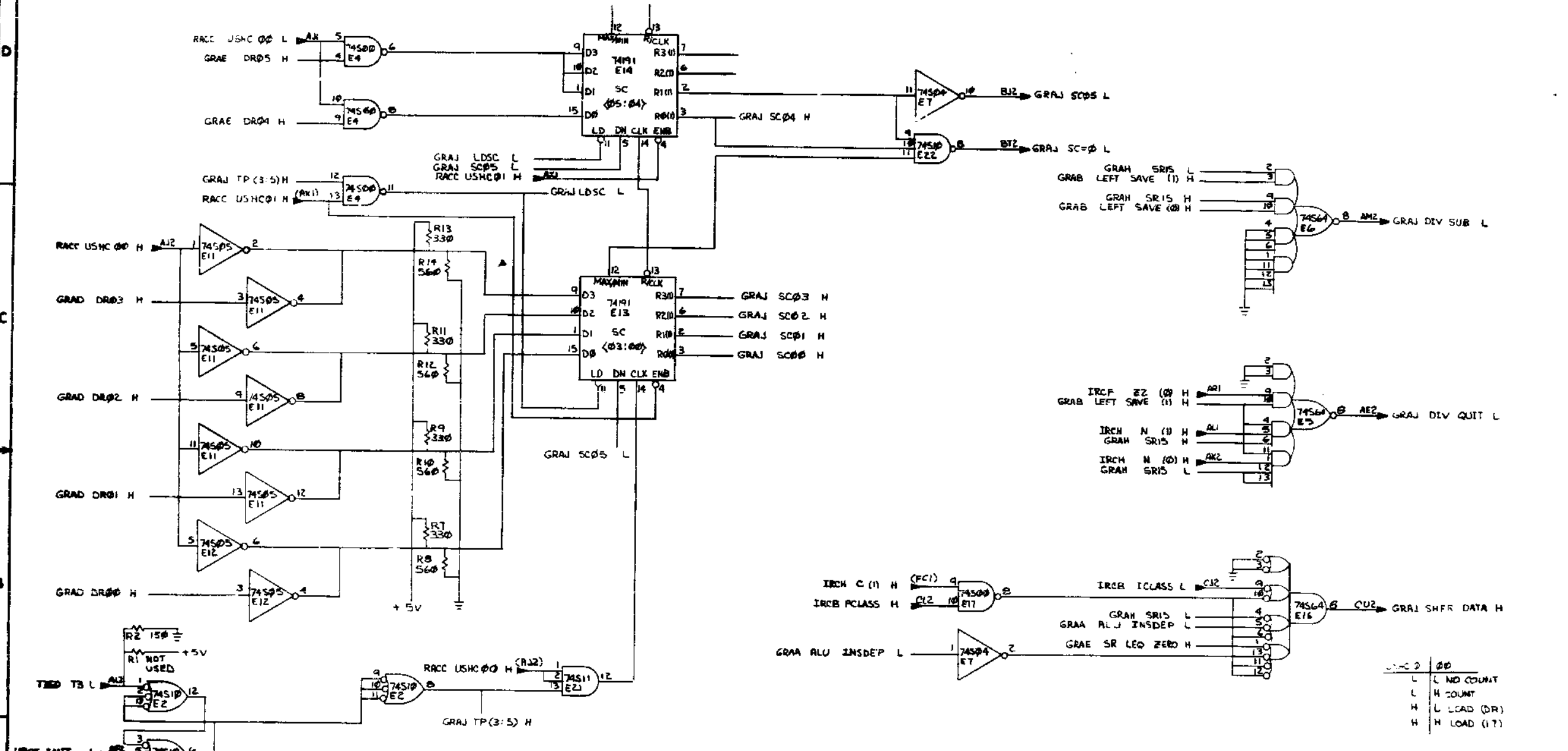
THIS CIRCUIT AND COMPONENTS THEREON ARE THE PROPERTY OF THE UNITED STATES GOVERNMENT AND ARE LOANED TO YOU BY THE NATIONAL BUREAU OF STANDARDS. IT IS TO BE RETURNED TO THE NATIONAL BUREAU OF STANDARDS AT THE END OF THE LOAN PERIOD OR AT THE END OF THE PROJECT.

NOTE:
* EARLY MACHINES HAVE 74154-1

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/45					
PARTS LIST					
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES	DATE 7-78-71	EQUIPMENT CORPORATION			
TOLERANCES	DATE 12/71				
DECIMALS	ANGLES	TITLE			
XXX - .00	16° 30'				
XX - .02		GENERAL REGS & ALU CNTL (GRAH)			
X - .1					
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	DATE 2/72	DRAWN BY: [Signature]			
	DATE 2/72				
MATERIAL	NEXT HIGHER ASSY.	REVISION	NUMBER	REV.	
	B-00-KB10	DCS M 8101-0-1		0	
FINISH	SCALE	SHEET 8	OF 18	DATE	

See drawing and specifications, herein, for the proper use of Equipment Corporation parts and materials. It is the responsibility of the user to verify the proper use of all parts and materials in accordance with the specifications of the manufacturer.

1-0-018W 50 2



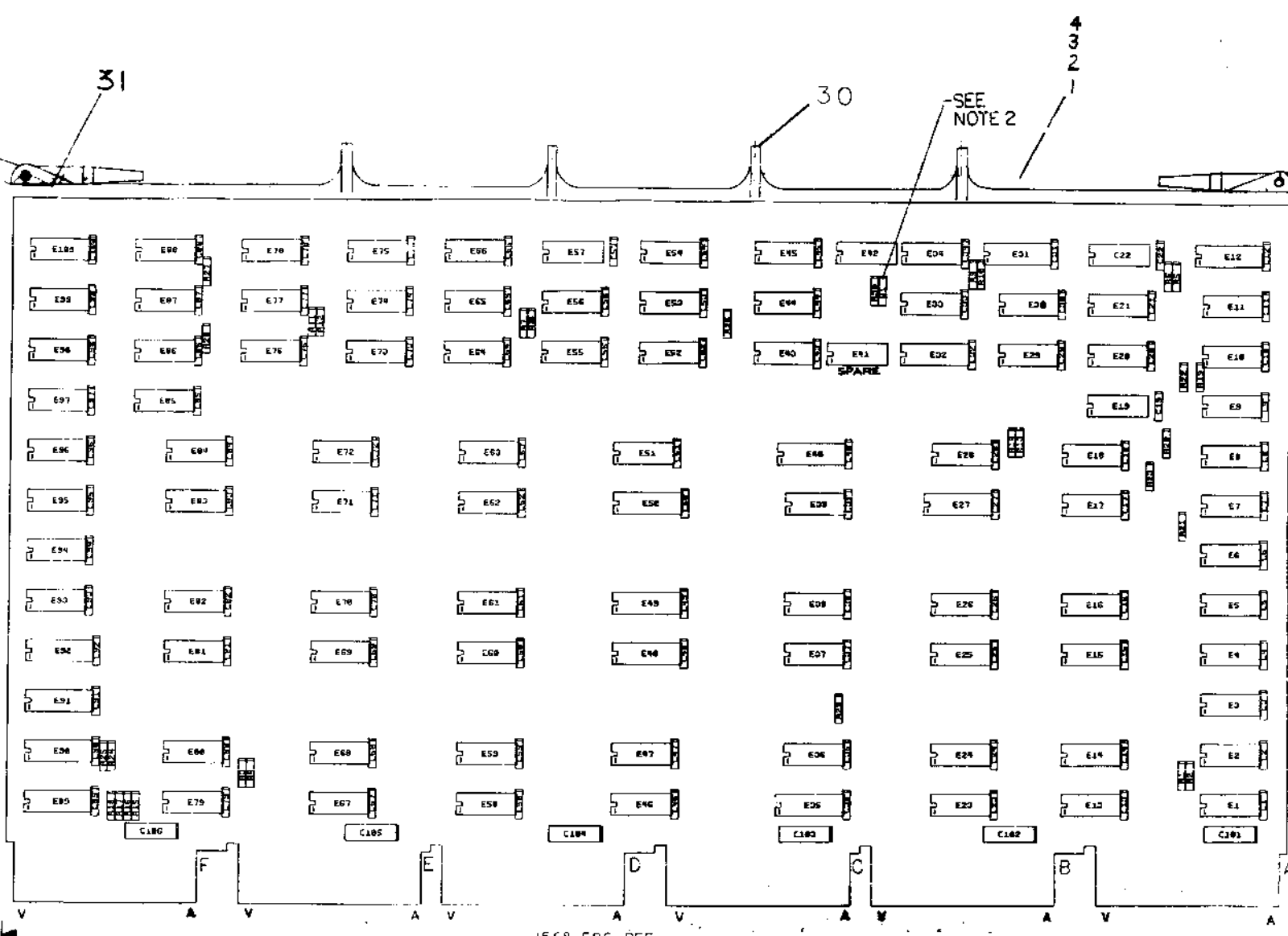
SHIFT COUNT REG (SC) SLOT 7

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/45				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DATE 12/11/74	DATE 12/11/74	EQUIPMENT CORPORATION	
DECIMALS	ANGLES	DATE 12/11/74	TITLE GENERAL REGS & ALU CNTL	
3/16 - 0.004	10° 30'	DATE 12/11/74	DRAWN BY C. J. ...	
1/8 - 0.003		DATE 12/11/74	CHECKED BY ...	
1/16 - 0.002		DATE 12/11/74	APPROVED BY ...	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		DATE 12/11/74	MATERIAL ...	
			NEXT DRAWING NO. B-00-KB11-0	
			DRAWN BY DCS	
			NUMBER M8101-0-1	
			SCALE ...	
			SHEET 5 OF 18	

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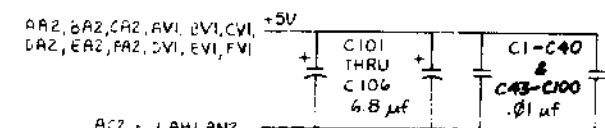
NOTES:

1. RESISTORS R1, R2 AND R4 ARE NOT USED.
2. INSTALL JUMPER W1 FOR USE WITH FP11-B



REF	X-Y COORDINATE HOLE LOCATION	K CO	MR132-B-4
REF	ASSY DRILLING HOLE LAYOUT	D-AH	MR132-B-5
REF	MODULE ECO HISTORY	B-WH	MR132-B-6
1	ETCHED CIRCUIT BOARD	5011394	
6	C101 THRU C106	CAPACITOR, 0.0MFD, 35V, 10%	1005306
98	C1 THRU C40, C43 THRU C100	CAPACITOR, 0.1MFD, 100V, 20% DISC	1001610-01
3	R2, R11, R13	RESISTOR, 150, 1/4W, 5%	1300250
4	R4, R5, R8, R9	RESISTOR, 330, 1/4W, 5%	1300295
10	R20 THRU R29	RESISTOR, 470, 1/4W, 5%	1300316
4	R3, R6, R7, R10	RESISTOR, 560, 1/4W, 5%	1301090
6	R15 THRU R19, R30	RESISTOR, 1K, 1/4W, 5%	1300365
12	E8, E17, E19, E21, E36, E37, E39, E52, E55, E62, E64, E93	I.C. DEC 74500	1910532
1	E34	I.C. DEC 74503	1910533
8	E3, E17, E30, E43, E68, E87, E97, E45	I.C. DEC 74504	1910534
9	E28, E33, E34, E53, E58, E74, E95, E98, E100	I.C. DEC 74510	1910536
16	E4, E6, E10, E22, E29, E46, E56, E44, E48, E71, E72, E75, E76, E78, E85, E89	I.C. DEC 74511	1910537
6	E7, E9, E18, E67, E70, E96	I.C. DEC 74520	1910539
1	E2	I.C. DEC 74540	1910541
11	E1, E5, E81, E63, E77, E81, E82, E83, E84, E88, E42	I.C. DEC 74584	1910542
5	E20, E54, E87, E85, E86	I.C. DEC 74585	1910543
11	E13, E14, E15, E16, E23, E24, E25, E26, E73, E79, E94	I.C. DEC 74574	1910544
4	E12, F31, E91, E92	I.C. DEC 745153	1910547
2	E35, E40	I.C. DEC 745157	1910548
3	E51, E80, E85	I.C. DEC 74450	1909060
5	E27, E32, E48, E49, E50	I.C. DEC 8251-1	1909854
1	E47	I.C. DEC 8875	1910647
2	E44, E69	I.C. DEC 8885	1910849
1	E89	I.C. DEC 8599-AB	23001A1
1	E90	I.C. DM 8598-AC	23002A1
1		HANDLE MODULE	1210711-2
12		EYELET	9006732

IC TYPE	QTY	DESCRIPTION	REF
IC DEC 8598AC	B	16	
IC DEC 745157	B	16	
IC DEC 745153	B	16	
IC DEC 8598AB	B	16	
IC DEC 8251-1	B	16	
IC TYPE	GND	+5V	



AR2, BA2, CA2, AV1, BV1, CV1, DA2, EA2, FA2, DV1, EV1, FV1

AC2, BT1, BH1, AN2, BC2, BT1, BH1, BN2, CC2, CT1, CH1, CN2, DC2, DT1, DH1, DN2, EC2, ET1, EH1, EN2, FC2, FT1, FH1, FN2

REV	DATE	BY	CHK
1	11/19/75	A. HELENIUS	
2	11/19/75	A. HELENIUS	
3	11/19/75	A. HELENIUS	
4	11/19/75	A. HELENIUS	
5	11/19/75	A. HELENIUS	
6	11/19/75	A. HELENIUS	
7	11/19/75	A. HELENIUS	
8	11/19/75	A. HELENIUS	
9	11/19/75	A. HELENIUS	
10	11/19/75	A. HELENIUS	
11	11/19/75	A. HELENIUS	
12	11/19/75	A. HELENIUS	

FIRST USED ON OPTION MODEL: 1170

ETCH BOARD REV: B

PARTS LIST

QTY	REF DESIGNATION	DESCRIPTION	PART NO	ITEM NO

digital EQUIPMENT CORPORATION

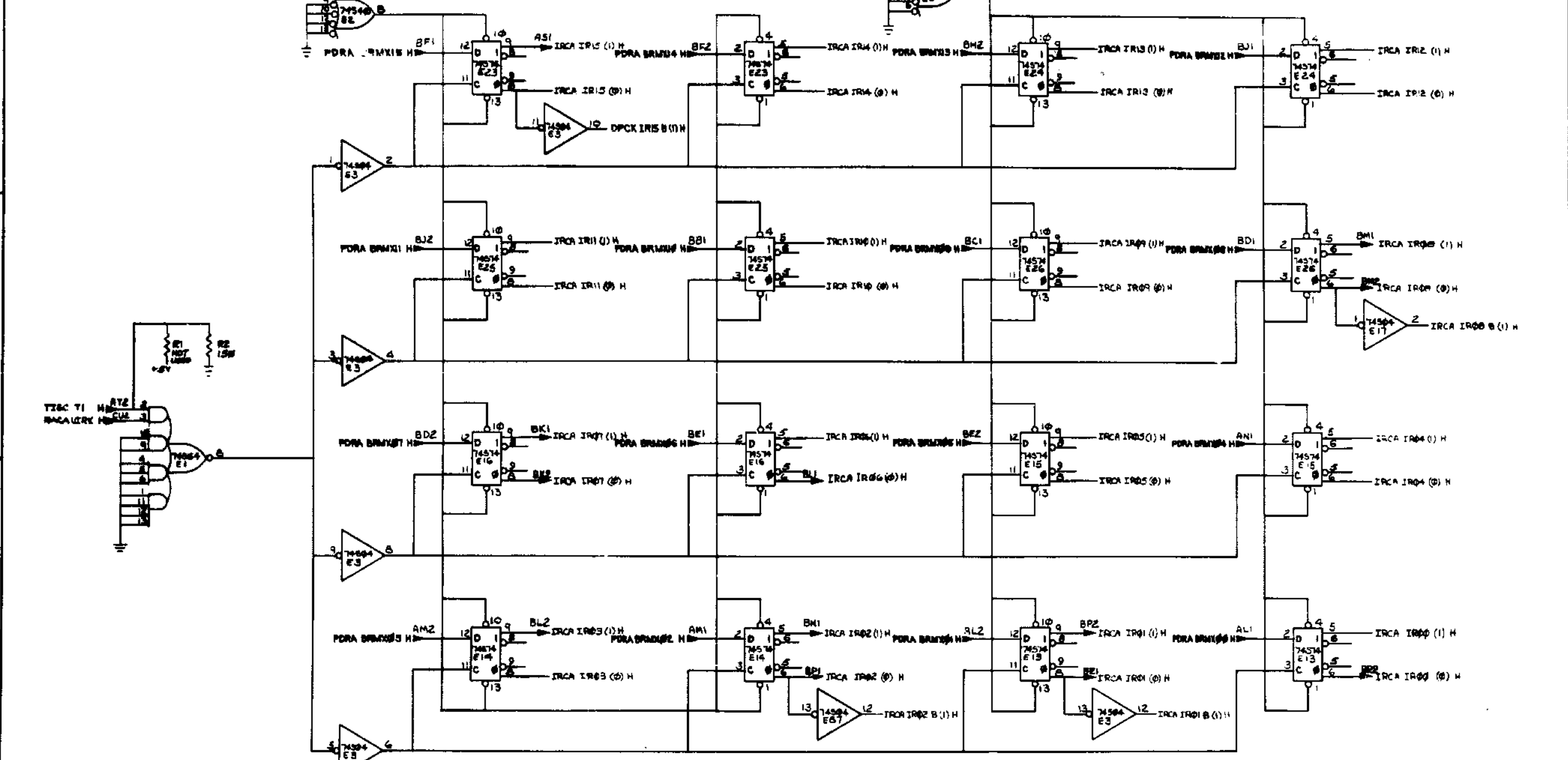
TITLE: IR DECODE & COND CCDES (IRC)

SIZE CODE: DCS M8132-3-1

SCALE: SHEET 9 OF 9

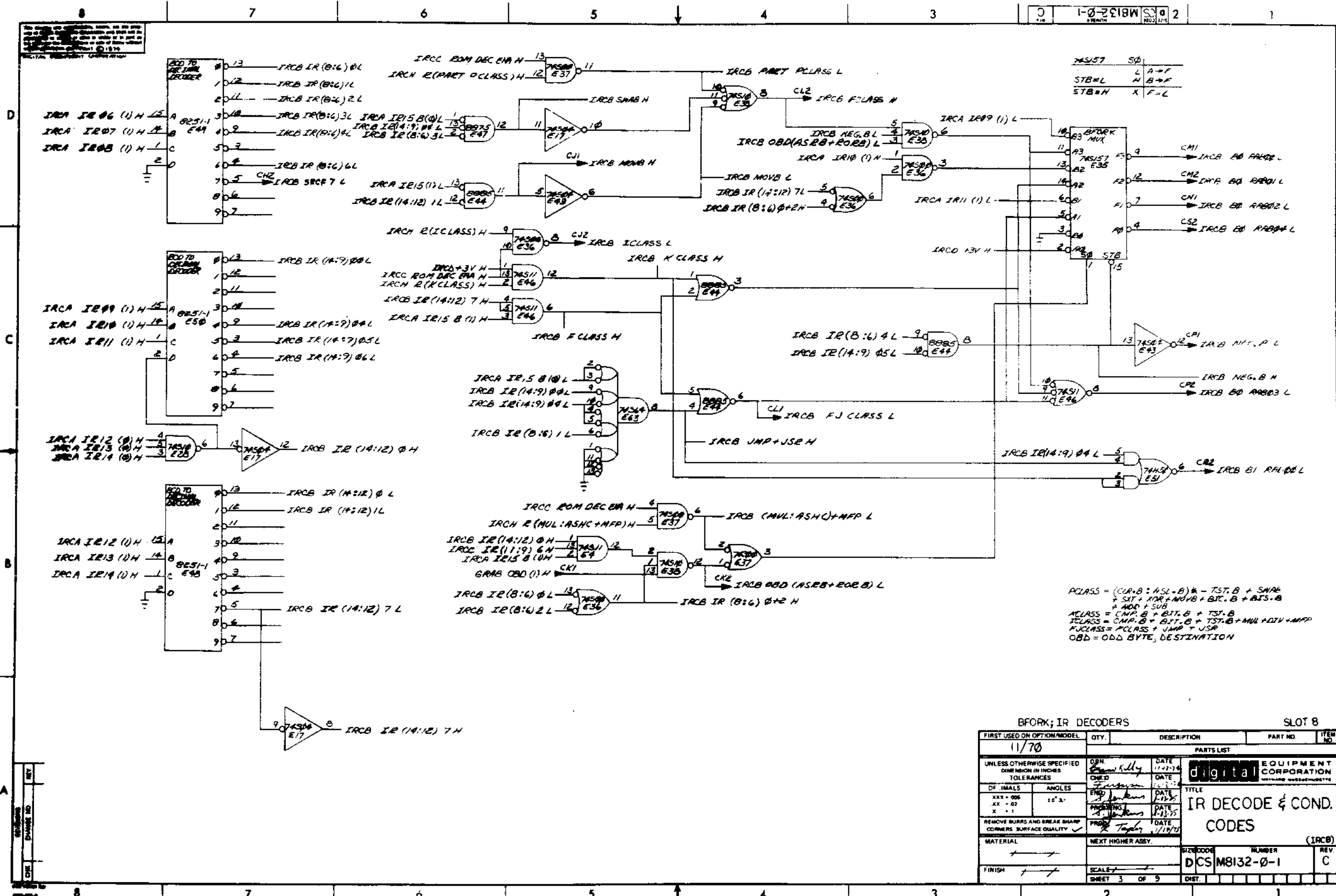
SEMICONDUCTOR CONVERSION CHART

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REV. 11/70
 CHANGE NO. 1

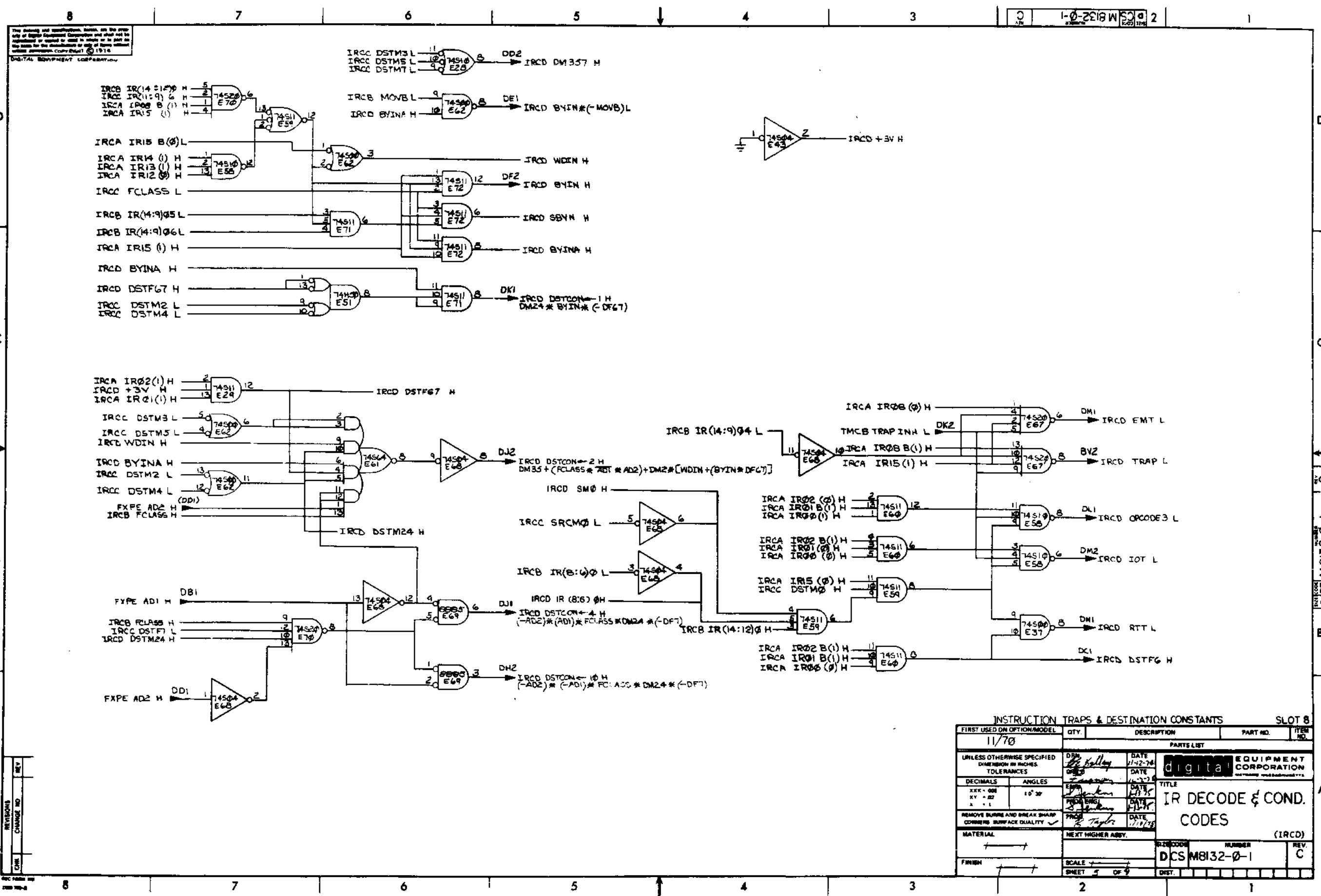
FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/70					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		ORN	DATE	PARTS LIST	
DECIMALS	ANGLES	CHKD	11-12-70	digital EQUIPMENT CORPORATION	
MAX + .005	20° 30'	ENG	1-1-75	TITLE	
MIN - .01		PROV. ENG.	1-12-75	IR DECODE & COND. CODES	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		DATE	1/17/76	(IRCA)	
MATERIAL	NEXT HIGHER ASSY	SIZE CODE	NUMBER	REV.	
FINISH	SCALE	DCS M8132-0-1		C	
	SHEET 2 OF 9	DIST			



STB=L	A=F
STB=H	B=F
STB=N	X=F

$PCLASS = (CUB : ASL : B) * - TST : B + SWAB$
 $+ CXT + XDR + ANVB + BIT : B + BIS : B$
 $+ ADD + SUB$
 $ACLASS = CMP : B + BIT : B + TST : B$
 $ICLASS = CMP : B + BIT : B + TST : B + MUL + DIV + MFP$
 $FJCLASS = PCLASS + JMP + USP$
 OBD = ODD BYTE, DESTINATION

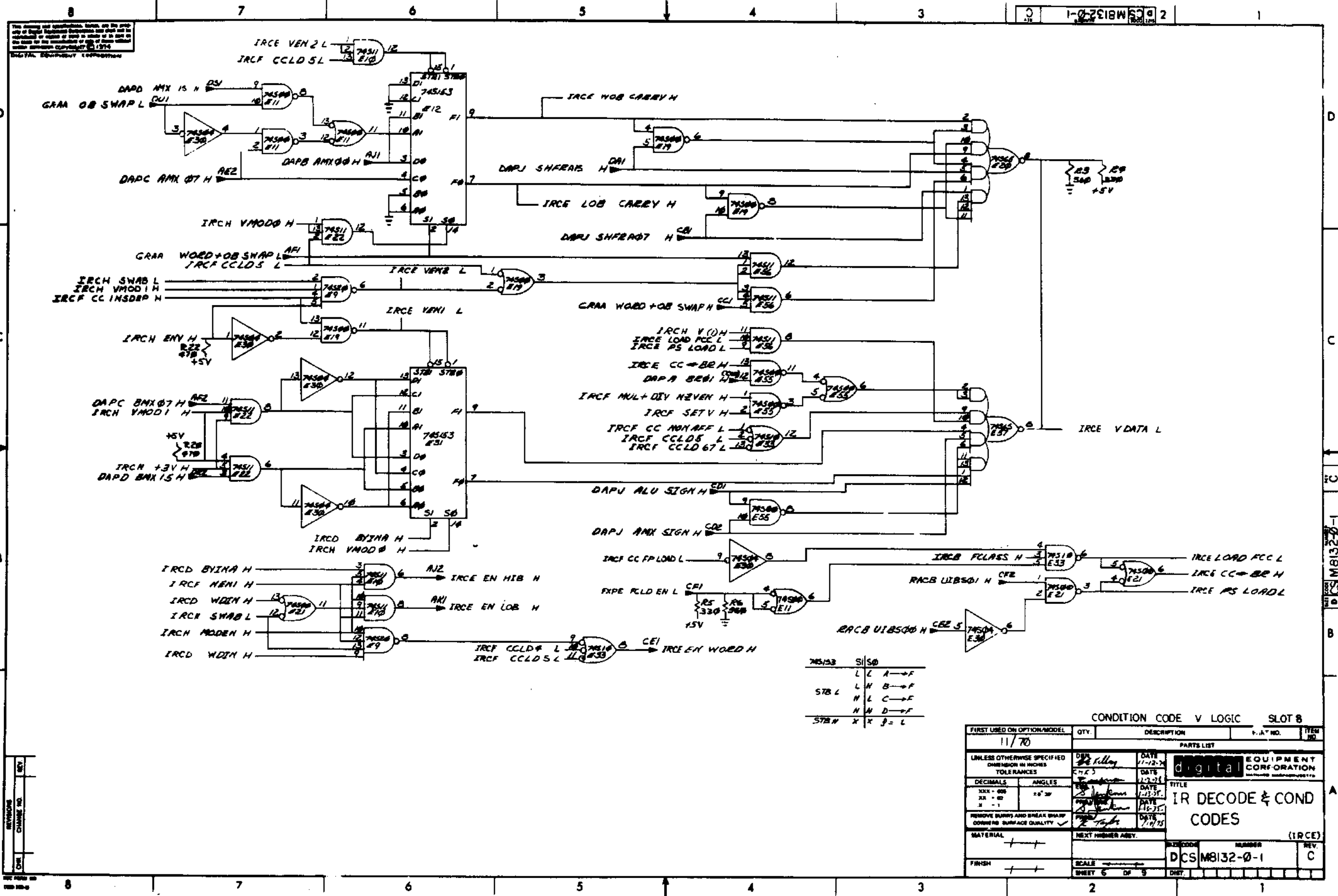
FIRST USED ON OPTION MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/70					
PARTS LIST					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES		DATE	digital EQUIPMENT CORPORATION		
DF: IMALS	ANGLES	11/70	TITLE IR DECODE & COND. CODES (IRCB)		
XX = .006	10° ±	DATE			
XX = .02		11/75			
X = .1		DATE			
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		DATE	SIZE CODE NUMBER REV.		
MATERIAL		11/70	DCS M8132-0-1		C
FINISH			SCALE		
			SHEET 3 OF 9		



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INSTRUCTION TRAPS & DESTINATION CONSTANTS				SLOT 8	
FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO.	ITEM NO.	
11/78					
PARTS LIST					
UNLESS OTHERWISE SPECIFIED					
DIMENSIONS IN INCHES					
TOLERANCES					
DECIMALS	ANGLES				
XXX - 000	10° 30'				
XY - .02					
Z - .1					
REMOVE BURRS AND BREAK SHARP CORNERS. SURFACE QUALITY					
MATERIAL		NEXT HIGHER ASSY.			
FINISH		SCALE			
		SHEET 5 OF 9			
		DISTRIBUTION NUMBER		REV	
		DCS M8132-0-1		C	

600



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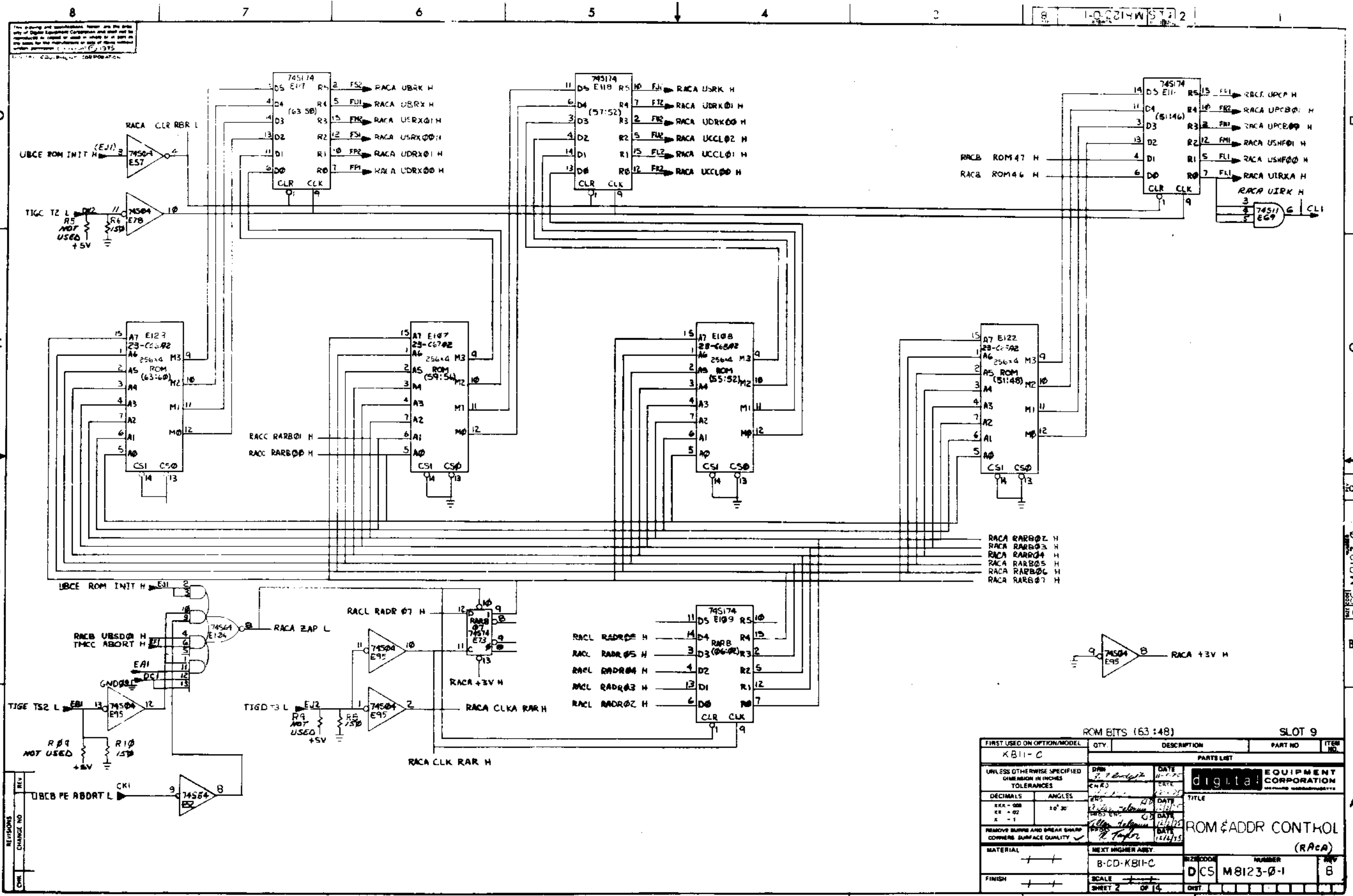
1-0-2218WSS 2

74S133	S	S0
	L	A → F
578 L	L	H B → F
	H	L C → F
	H	H D → F
578 H	X	X β = L

CONDITION CODE V LOGIC SLOT 8

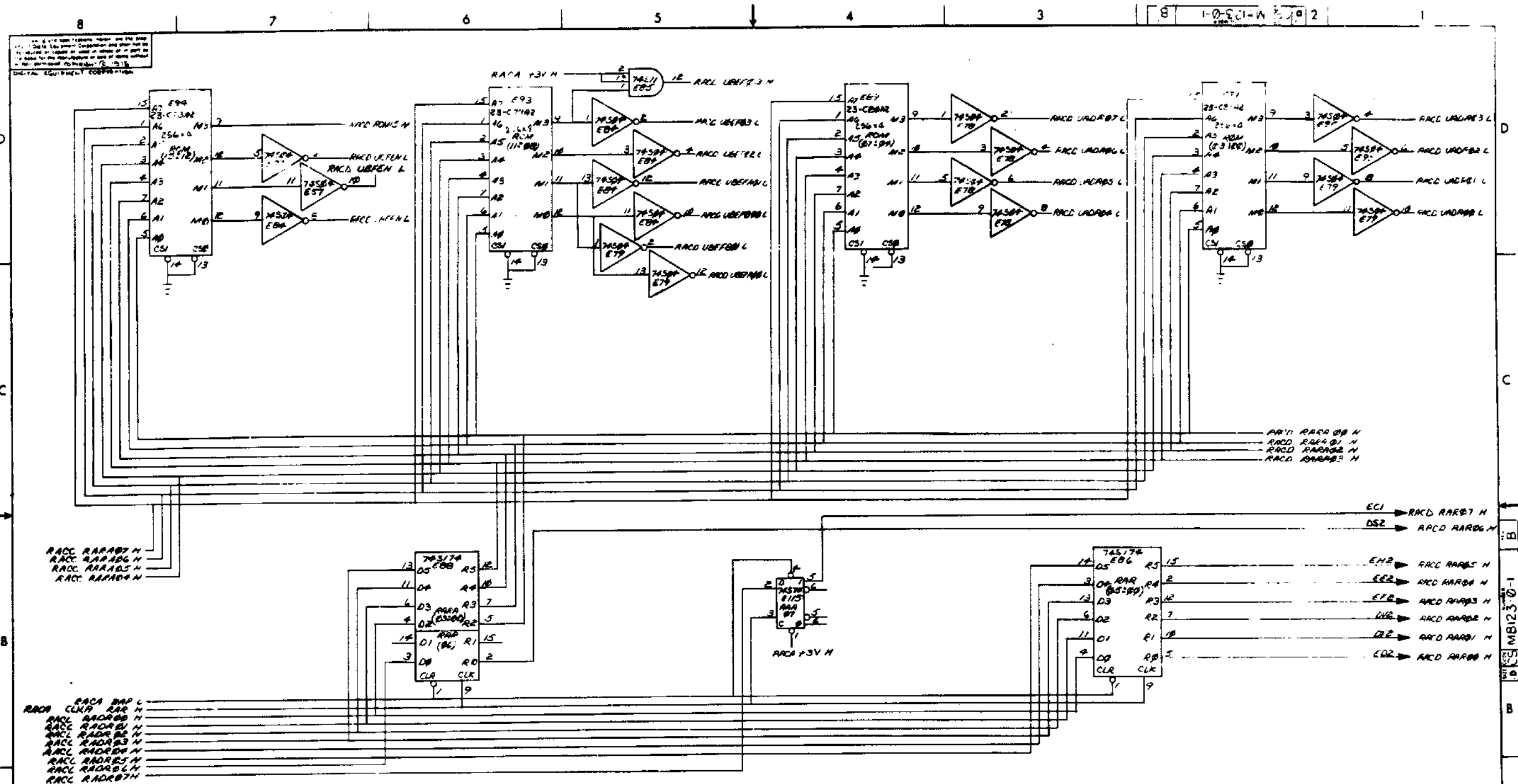
FIRST USED ON OPTION/MODEL 11/70	QTY.	DESCRIPTION	P.A. NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES	DWG De Killy	DATE 11-12-74	digital EQUIPMENT CORPORATION	
DECIMALS	ANGLES	DATE 1-13-75	TITLE IR DECODE & COND CODES	
XXX - 000 XX - 00 X - 0	± 0° 30'	DATE 11-25-74	REV. C	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	FINISH ++	DATE 7/1/75	(IRCE)	
MATERIAL	NEXT HIGHER ASSY.	REV. CODE	NUMBER	REV.
		DCS M8132-0-1		C
FINISH	SCALE	SHEET 5 OF 9	DWG.	

DCS M8132-0-1

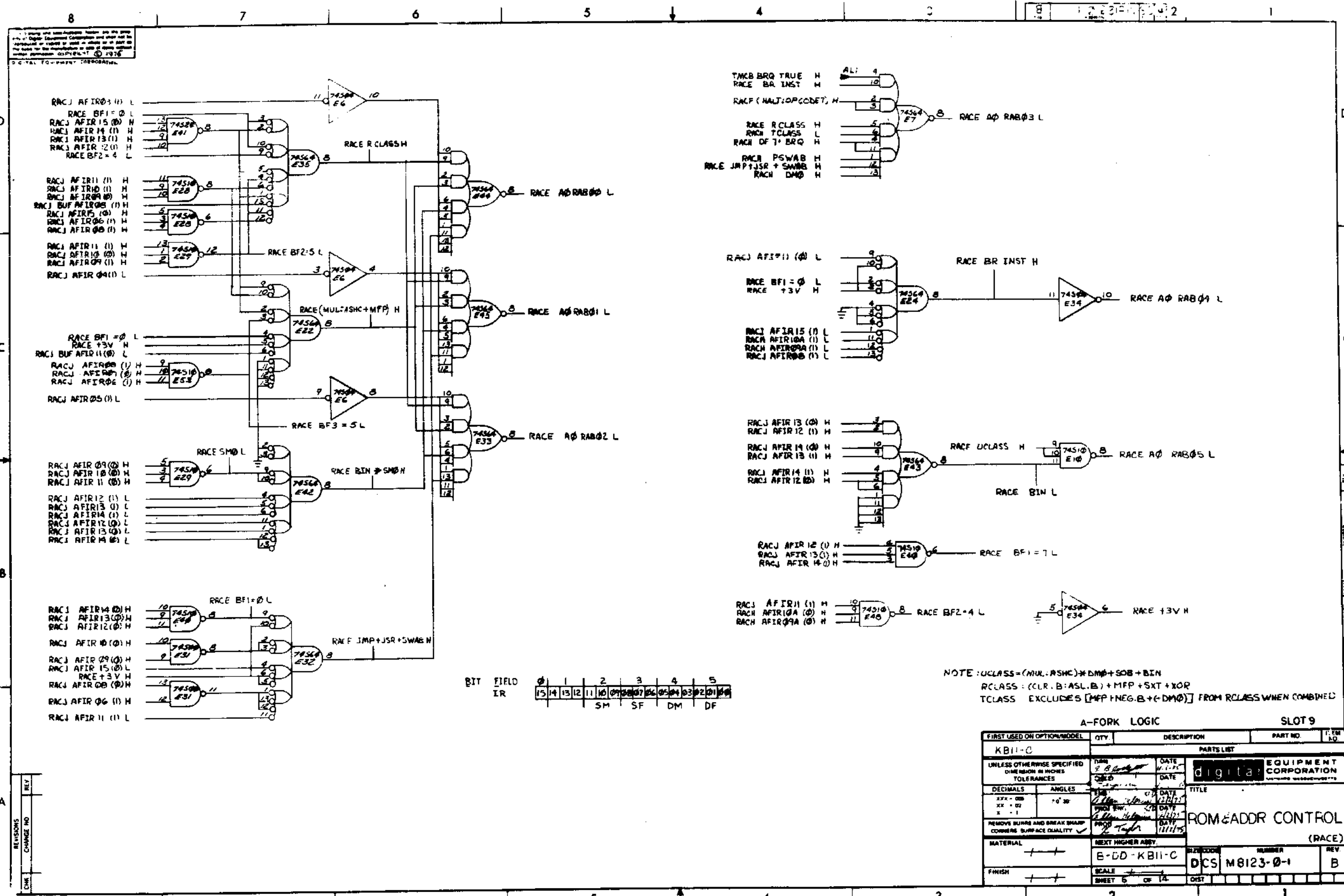


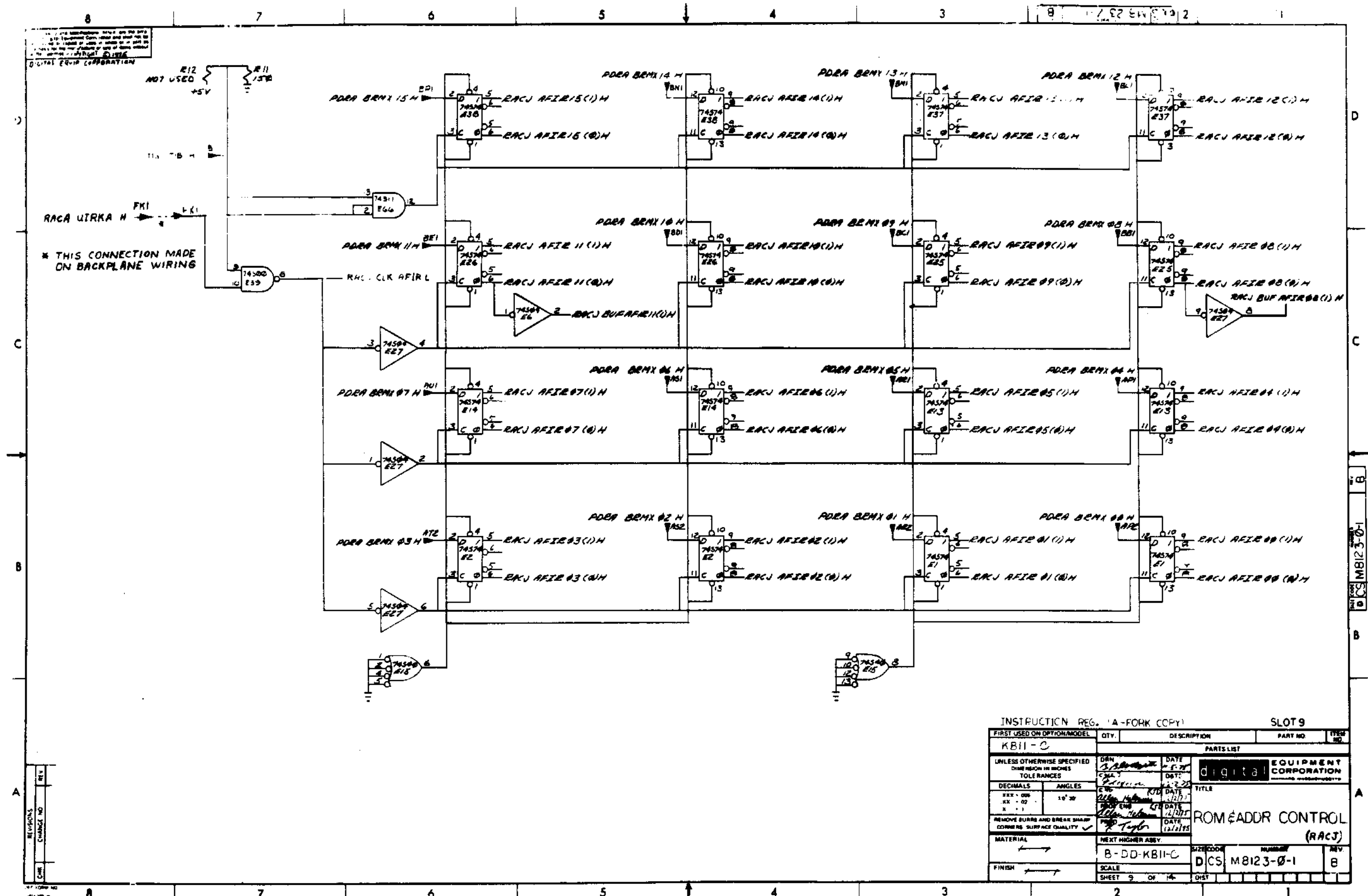
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FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
KB11-C				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES		DATE	digital EQUIPMENT CORPORATION	
DECIMALS	ANGLES	DATE	TITLE	
±.000	±0° 30'	DATE	ROM & ADDR CONTROL (RACA)	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		DATE	DCS M8123-0-1	
MATERIAL	NEXT HIGHER ASSY.	DATE	NUMBER	
+	B-CD-KB11-C	DATE	REV	
FINISH	SCALE	DATE	D	
+	SHEET 2 OF 14	DATE	B	



FIRST USED ON OPTION/MODEL		QTY	DESCRIPTION	PART NO	ITEM NO
KB11-C					
UNLESS OTHERWISE SPECIFIED					
DIMENSION IN INCHES		DATE		PARTS LIST	
TOLERANCES		DATE		digital EQUIPMENT CORPORATION	
DECIMALS	ANGLES	DATE		TITLE	
XXX - 0.01	10 - 30	DATE		ROM ADDR. CONTROL	
REMOVE BUMPS AND BREAK SHARP CORNERS SURFACE QUALITY		DATE		(RACD)	
MATERIAL		NEXT HIGHER ASBY		SIZE CODE	
FINISH		SCALE		DRAWING	
		B-DD-KB11-C		DCS M8123-0-1	
		SHEET 5 OF 14		REV B	





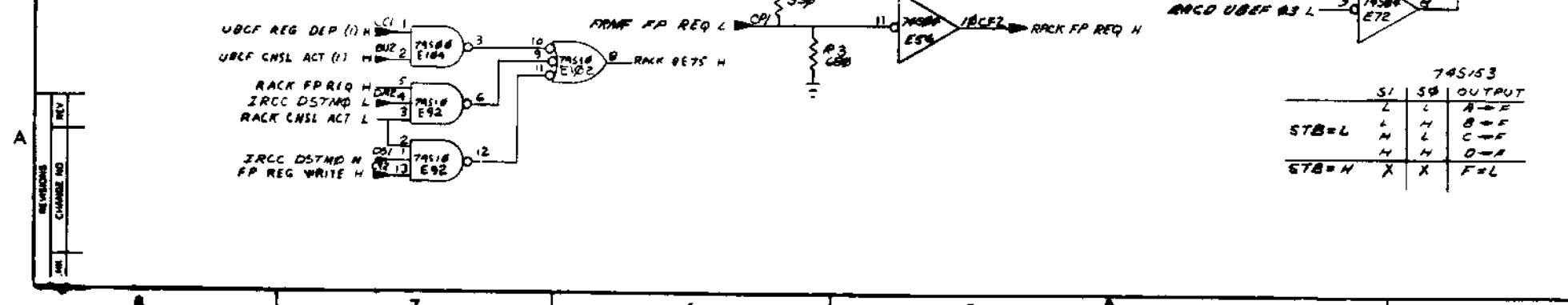
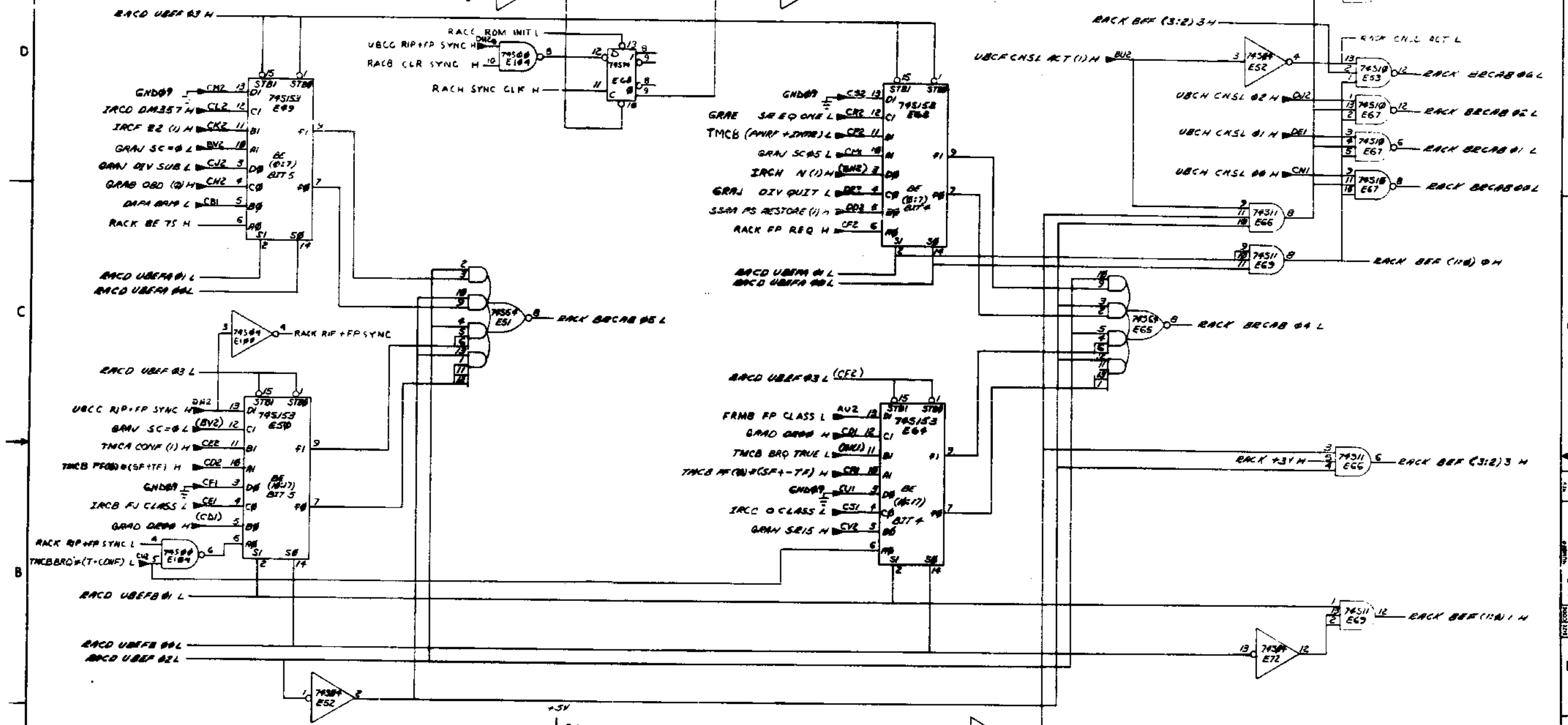
1. This schematic is for the 74574 and 74504 only. It is not valid for other versions of these devices.
 2. The 74574 and 74504 are not recommended for use in applications where the supply voltage is less than 5V.
 3. The 74574 and 74504 are not recommended for use in applications where the supply current is less than 10mA.
 4. The 74574 and 74504 are not recommended for use in applications where the supply voltage is less than 5V and the supply current is less than 10mA.
 5. The 74574 and 74504 are not recommended for use in applications where the supply voltage is less than 5V and the supply current is less than 10mA.
 6. The 74574 and 74504 are not recommended for use in applications where the supply voltage is less than 5V and the supply current is less than 10mA.
 7. The 74574 and 74504 are not recommended for use in applications where the supply voltage is less than 5V and the supply current is less than 10mA.
 8. The 74574 and 74504 are not recommended for use in applications where the supply voltage is less than 5V and the supply current is less than 10mA.
 9. The 74574 and 74504 are not recommended for use in applications where the supply voltage is less than 5V and the supply current is less than 10mA.
 10. The 74574 and 74504 are not recommended for use in applications where the supply voltage is less than 5V and the supply current is less than 10mA.

* THIS CONNECTION MADE ON BACKPLANE WIRING

INSTRUCTION REG. 'A-FORK COPY) SLOT 9

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
KB11-C				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES	DRN 3/2/78	DATE 11/1/78		
DECIMALS	ANGLES	DATE 11/2/78		
MATERIAL	NEXT HIGHER ASBY.	SCALE	ROM ADDR CONTROL (RACJ) SIZE CODE: DCS M8123-0-1 NUMBER: 8 REV: B	
FINISH	SCALE	SHEET 9 OF 14		

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74S153		
SI	SB	OUTPUT
STB=L	L	A=F
	H	B=F
	L	C=F
	H	D=F
STB=H	X	F=L

SEARCH CONDITIONS (ROM ADDRESS MODIFICATION) SLOT 9

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
KB11-C				
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES				
DECIMALS	ANGLES	TITLE		
XXX + 0.00	10' 30"	ROM & ADDR CONTROL (RACK)		
XX - 0.02		DATE 12/21/75		
X - 0.1		DATE 12/21/75		
REMOVE BUNTS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL		NEXT HIGHER ARMY		
FINISH		B-DD-KB11-C	SCALE	NUMBER
			DCS M8123-0-1	B
			SHEET 10 OF 14	

8

7

6

5

4

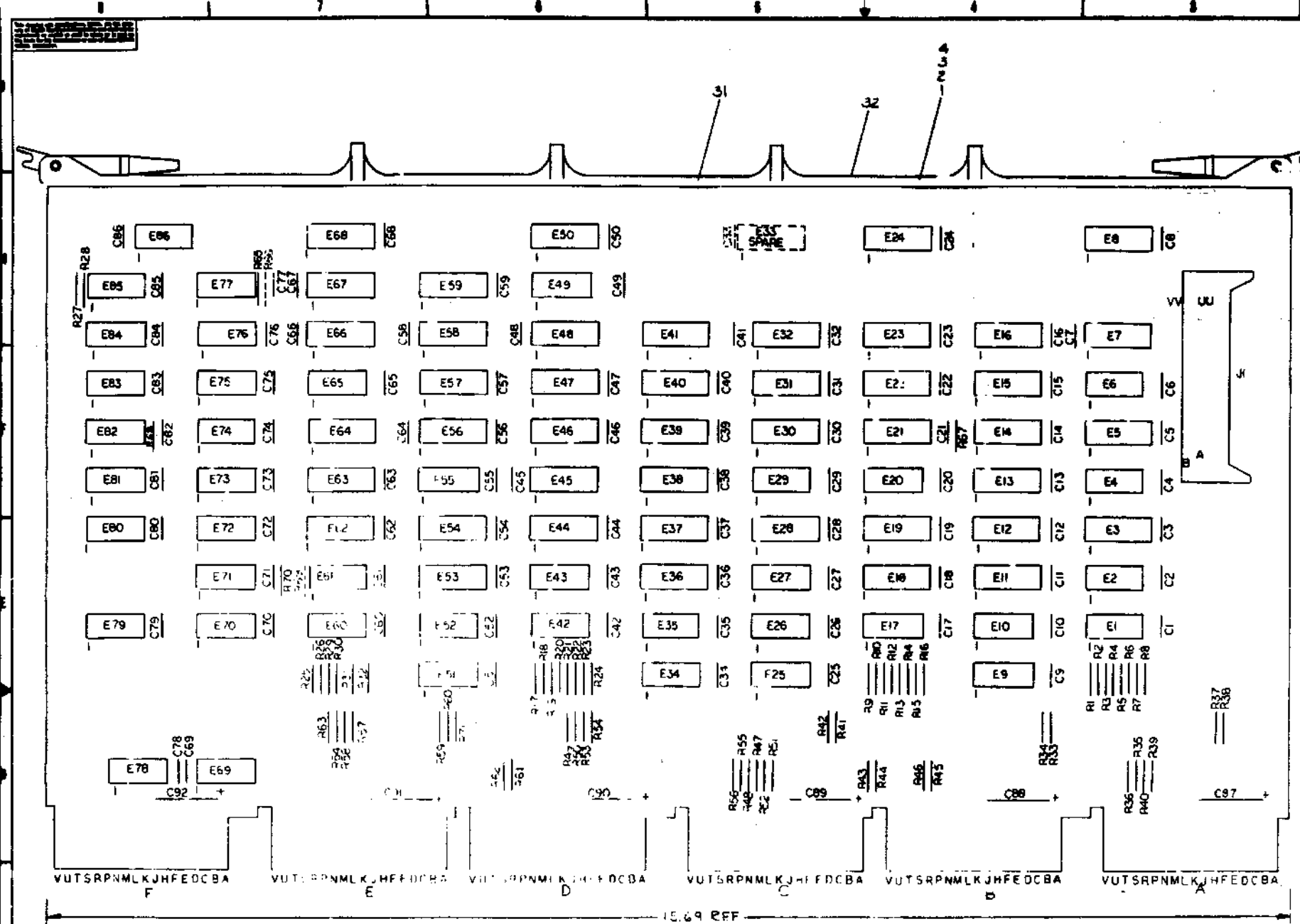
3

8 1-0-218W SCD 2

1

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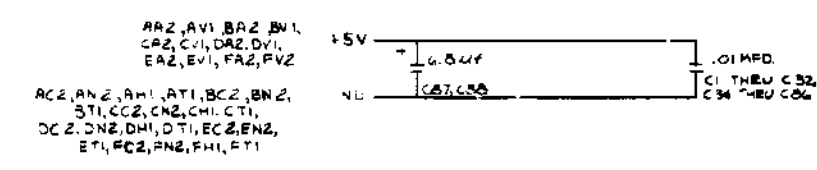
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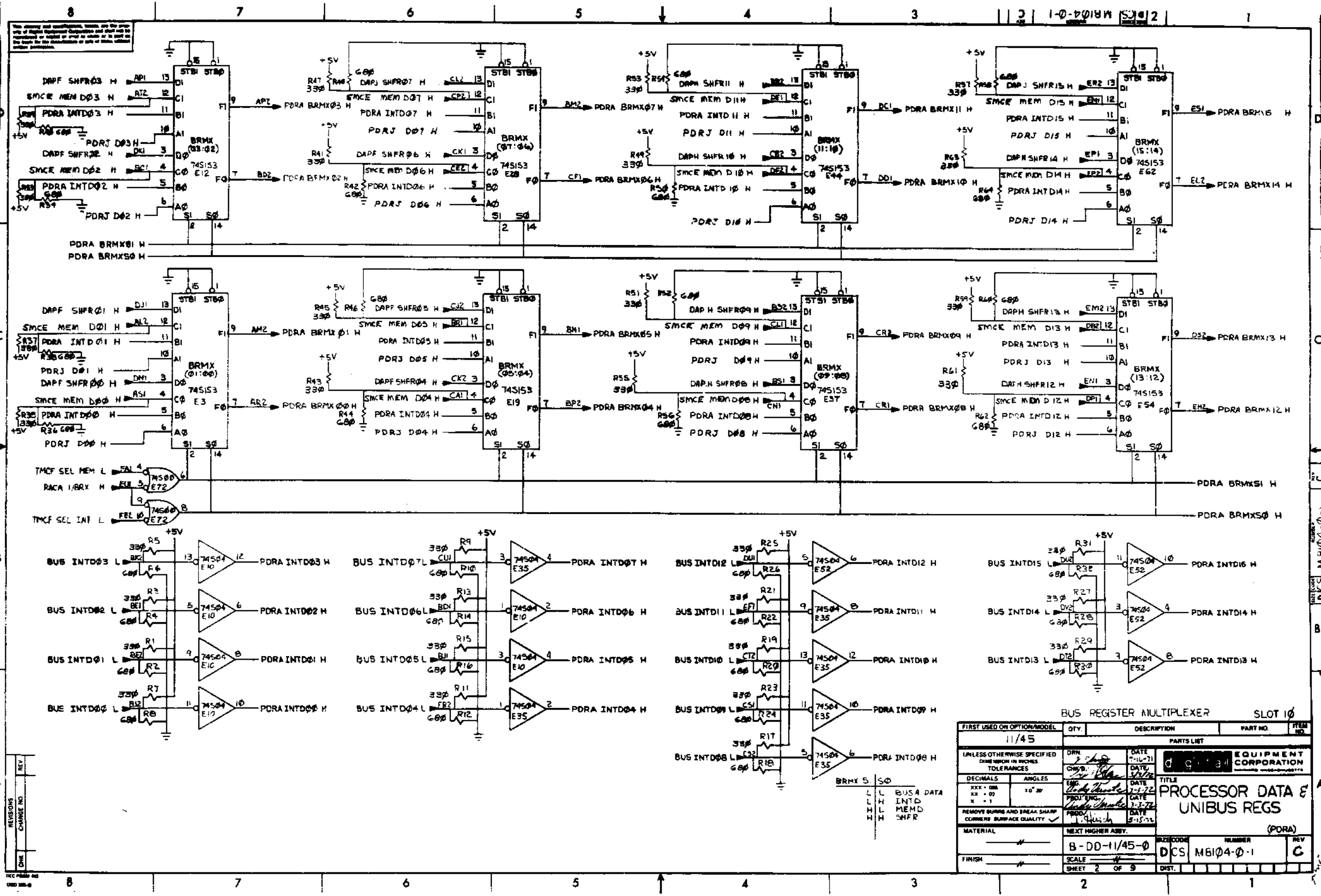
NOTES:
 1. UNLESS OTHERWISE NOTED RESISTANCE IS IN OHMS AND CAPACITANCE IS IN PICO FARADS. CAPS WITHOUT VALUE NOTED .01 MFD.

QTY	REF DESIGNATION	DESCRIPTION	PART NO	QTY
1	E1	HANDLE, MODULE	E-79-21071-2	32
1	E2	EYELET	9006732	31
1	J1	CONN 40PIN 586C	1209941	30
2	E47, E59	IC DEC 74175	1910681	29
4	E8, E24, E50, E48	IC DEC 7485	1910284	28
2	E11, E8, E15, E16, E22, E23, E24, E25, E26, E27, E28, E29	IC DEC 745174	1910550	27
1	E31	IC DEC 745157	1910548	26
24	E3, E5, E7, E12, E14, E16, E19, E21, E25, E28, E30, E32, E27, E39, E41, E44, E46, E48, E54, E56, E58, E62, E64, E66	IC DEC 745153	1910547	25
7	E4, E49, E69, E80, E82, E83, E85	IC DEC 745174	1910544	24
1	E79	IC DEC 74540	1910541	23
1	E71	IC DEC 74520	1910539	22
8	E4, E10, E29, E35, E52, E55, E65, E75	IC DEC 74504	1910539	21
2	E20, E77	IC DEC 74311	1910537	20
3	E70, E73, E86	IC DEC 74510	1910536	19
1	E72	IC DEC 74500	1910532	18
1	E40	IC DEC 9318	1910454	17
8	E9, E7, E25, E34, E51, E78, E81, E84	IC DEC 74401	1909849	16
4	E1, E24, E42, E60	IC DEC 8881	1909705	15
4	E2, E27, E45, E41	IC DEC 360	1909485	14
1	E74	IC DEC 74450	1909064	13
1	E76	IC DEC 74440	1905586	12
1	E68	RESISTOR 330Ω, 1/4W, 5%	1300295	11
1	E67	RESISTOR 180Ω, 1/4W, 5%	1301322	10
3	E65, E70, E71	RESISTOR 150Ω, 1/4W, 5%	1300250	9
32	R1, R3, R5, R7, R9, R11, R13, R15, R17, R19, R21, R23, R25, R27, R29, R31, R33, R35, R37, R39, R41, R43, R45, R47, R49, R51, R53, R55, R57, R59, R61, R63	RESISTOR 330Ω, 1/4W, 5%	1300295	8
32	R2, R4, R6, R8, R10, R12, R14, R16, R18, R20, R22, R24, R26, R28, R30, R32, R34, R36, R38, R40, R42, R44, R46, R48, R50, R52, R54, R56, R58, R60, R62, R64	RESISTOR 600Ω, 1/4W, 5%	1301424	7
85	C1 THRU C32, C34 THRU C86	CAPACITOR .01μF, 50V, 20% AXIAL	100-610	6
6	C87 THRU C92	CAPACITOR 4.5μF, 50V, 10% TANT	1005306	5
1		ETCHED CIRCUIT BOARD	5004804	4
1		MODULE ECO HISTORY	8-141-1804-04	3
1		ASSY/DRILLING HOLE LAYOUT	8-141-1804-03	2
1		X-Y COORDINATE HOLE LOCATION	8-141-1804-02	1

QTY	REF DESIGNATION	DESCRIPTION	PART NO	QTY
16	DEC 745153			
16	DEC 74175			
16	DEC 7485			
16	DEC 745174			
16	DEC 745174			
16	DEC 9318			
1	DEC 360			



EQUIPMENT CORPORATION
 PROCESSOR DATA
 UNIBUS REGS.
 B-00-11/45-0
 18124-01



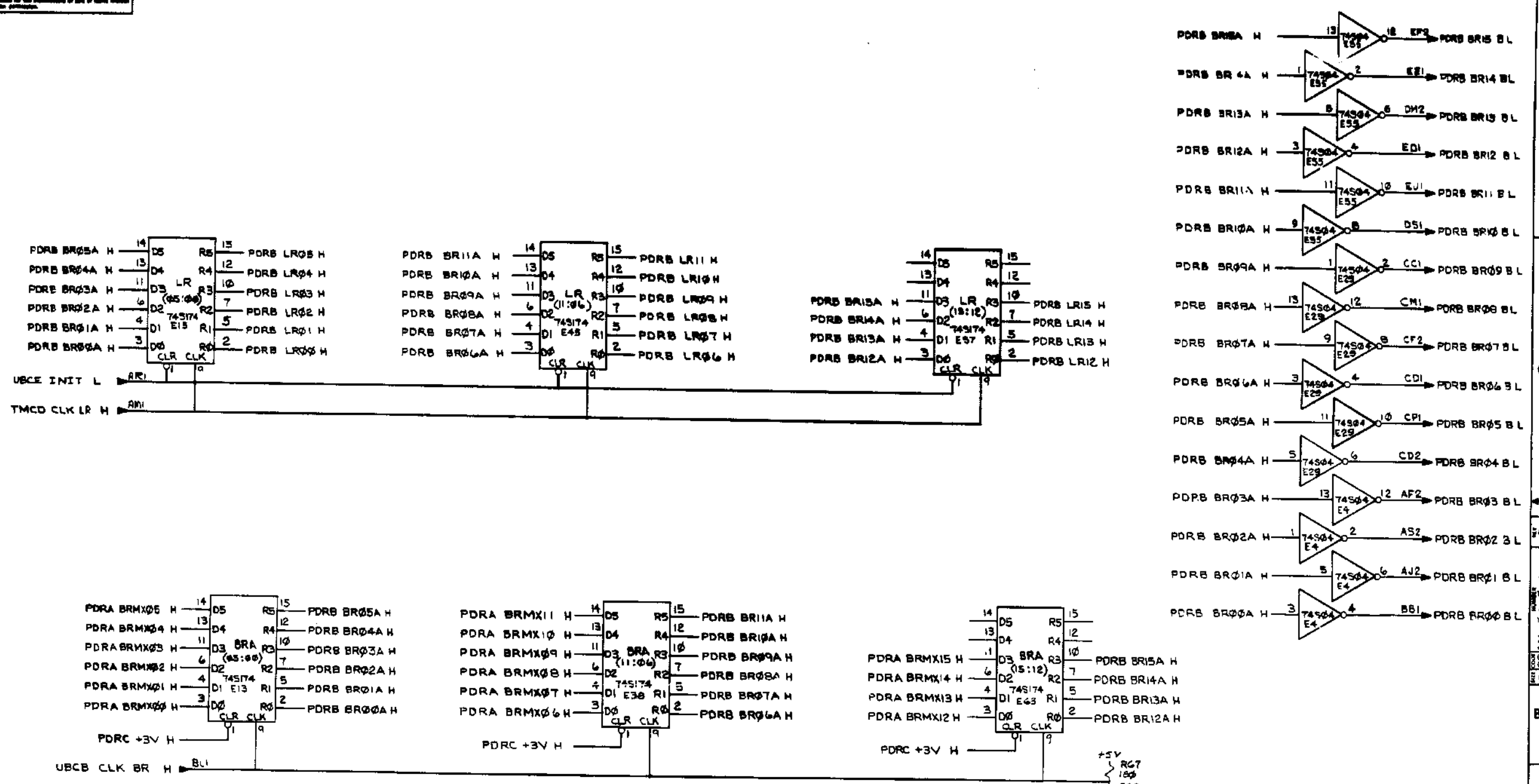
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REV	CHG	REVISIONS

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/45					
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES					
DECIMALS	ANGLES	PARTS LIST			
XXX - 001	10° 30'	DRN	DATE	EQUIPMENT CORPORATION	
XX - 02		CHKD	DATE		
X - 1		ENG	DATE		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		PROJ. ENG.	DATE	TITLE	
MATERIAL		PRDCT.	DATE	PROCESSOR DATA & UNIBUS REGS	
NEXT HIGHER ASBY.		(PORA)			
FINISH		B-DD-11/45-0	SCALE	DCS	NUMBER
		SHEET 2 OF 9		M6104-0-1	REV
					C

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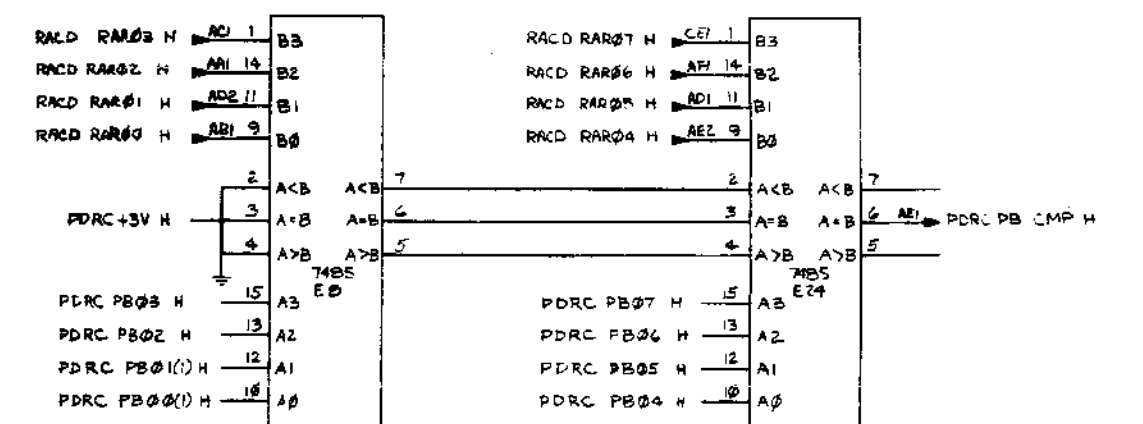
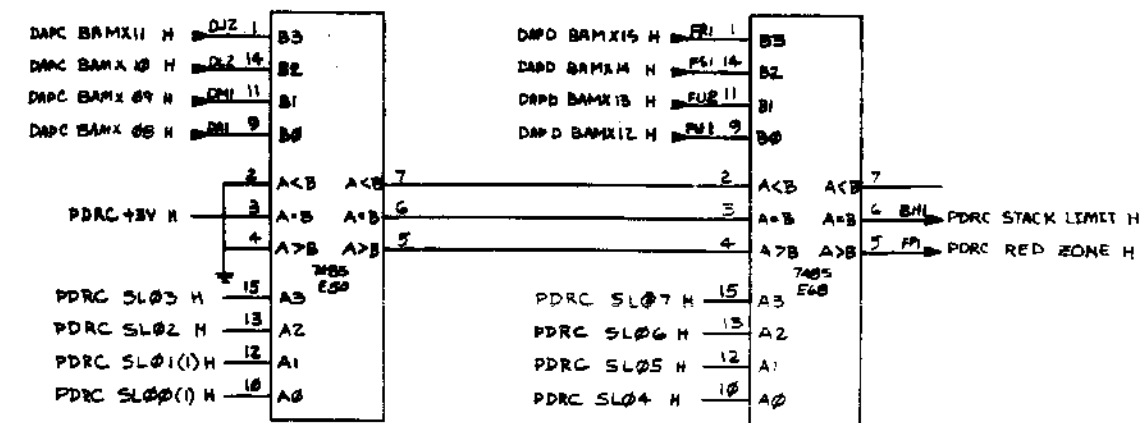
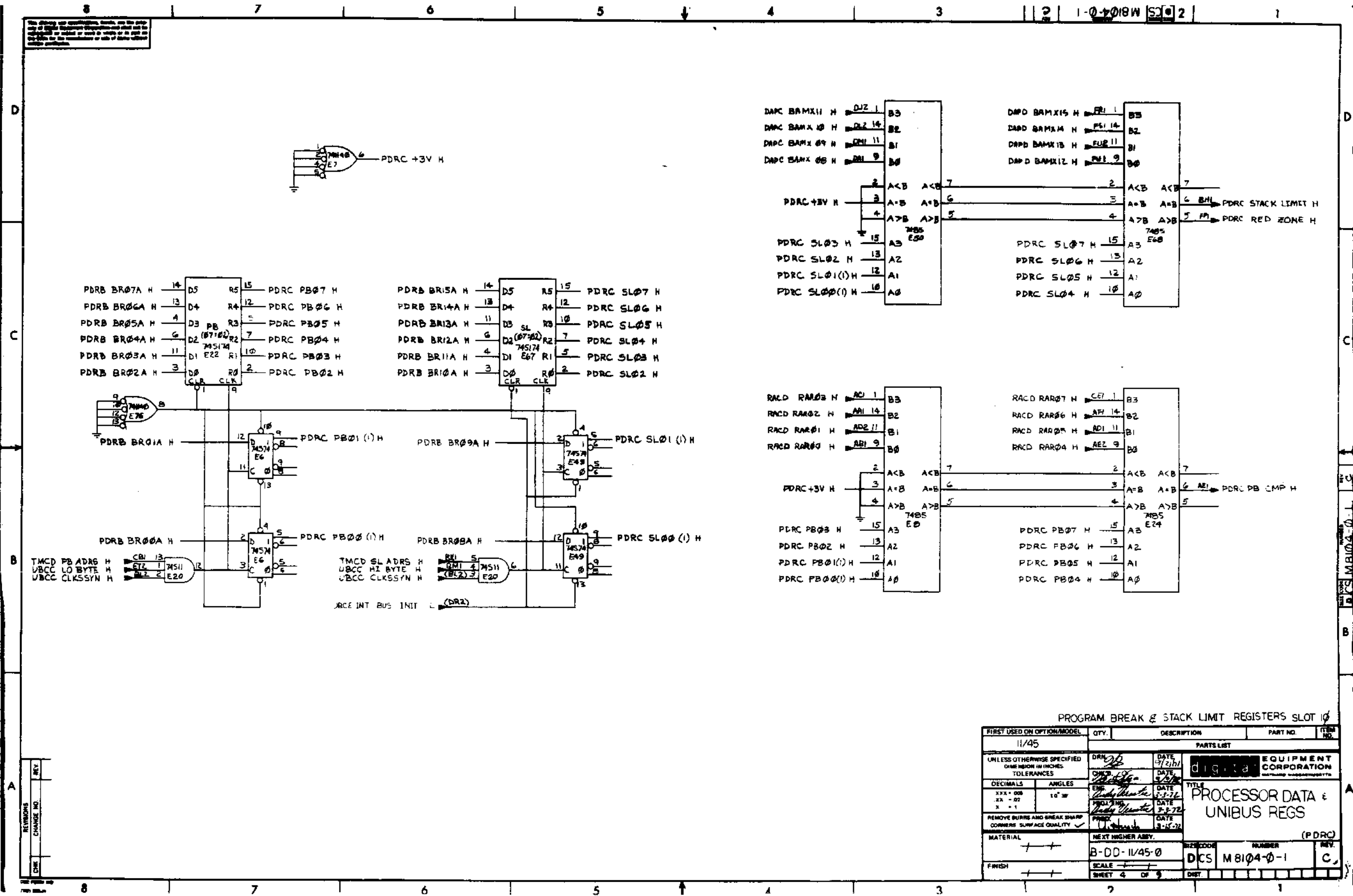
1-0-018W500 2



FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/45					
PARTS LIST					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DATE 2-29-71	digital EQUIPMENT CORPORATION TITLE PROCESSOR DATA & UNIBUS REGS (PDRB)		
DECIMALS	ANGLES	DATE 3/3/72			
XXX - 000	10° 30'	DATE 3-3-72			
XX - 00		DATE 3-3-72			
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		DATE 2-2-73			
MATERIAL		NEXT HIGHER ASSY.		SIZE/CODE	NUMBER
FINISH		B-00-11/45-0		DCS M8104-0-1	REV. C
SCALE		SHEET 3 OF 9		DIST.	

REV. 1
CHANGE 100
DATE

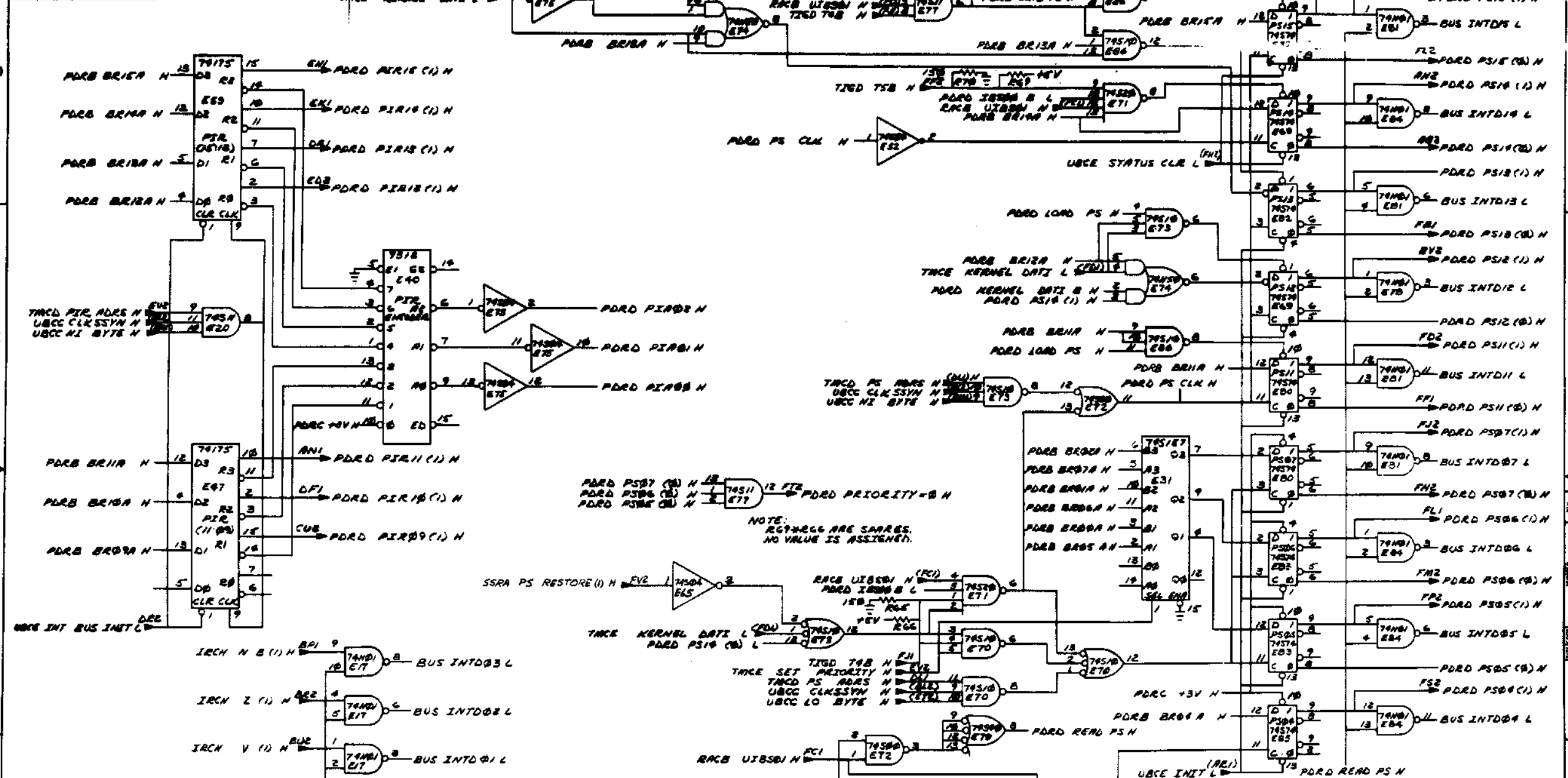
See drawing and specifications, models, and the price list of all components. Components should not be substituted without the approval of the design engineer. All components shall be of the manufacturer of the type shown unless otherwise specified.



PROGRAM BREAK & STACK LIMIT REGISTERS SLOT 10

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/45				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN DATE 3/2/71	DATE 3/2/71	 EQUIPMENT CORPORATION MILITARY MARKING PARTS	
DECIMALS	ANGLES	DATE 3-3-72		
XXX - 000 .XX - 00 X - 1	10° 30'	DATE 3-3-72		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	DATE 3-15-72			
MATERIAL	NEXT HIGHER ASSY.	FINISH	NUMBER	REV.
++	B-DD-11/45-0	++	DCS M8104-0-1	C
FINISH	SCALE	SHEET	OF	
++		4	9	

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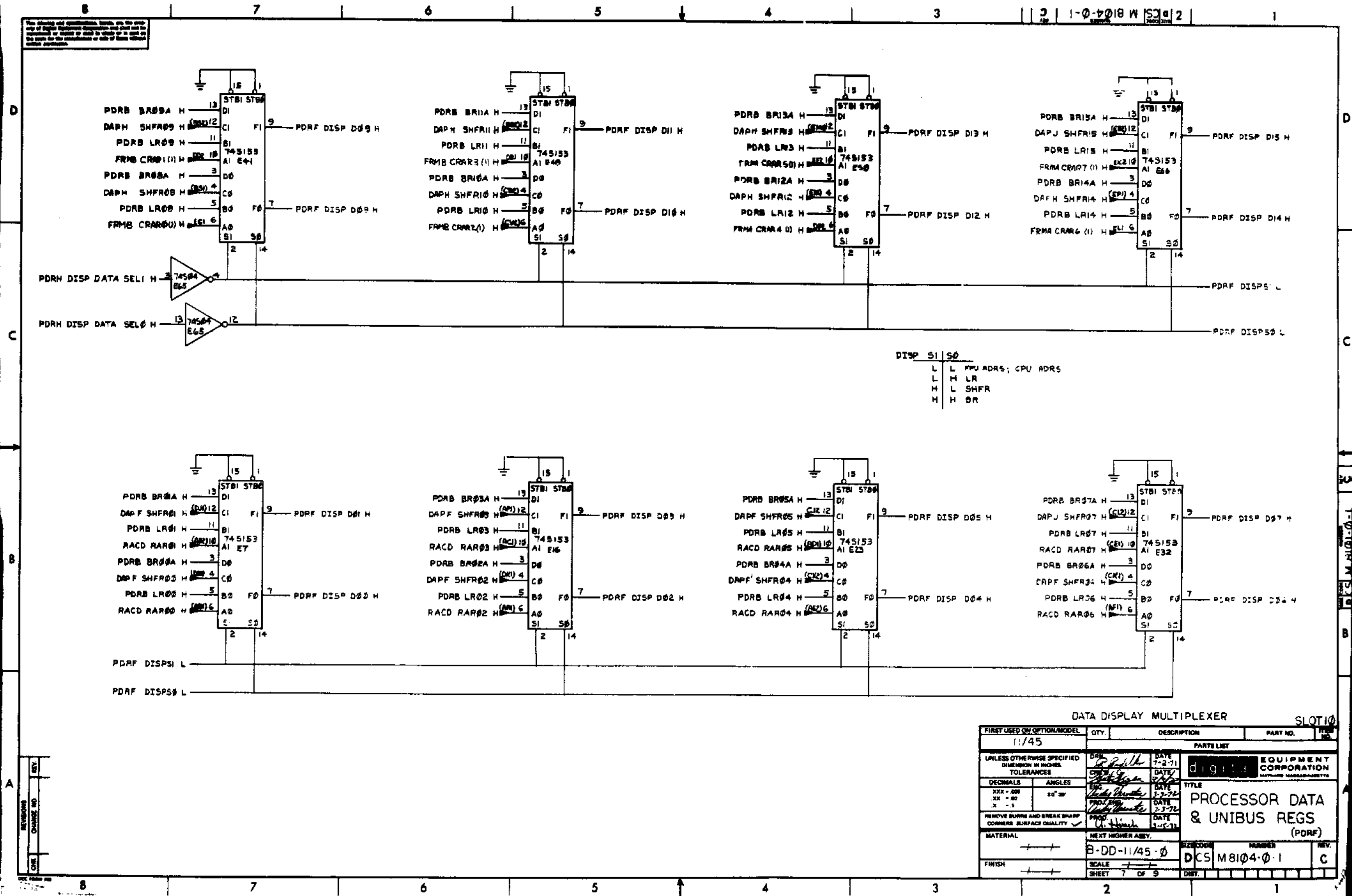


FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/45					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES					
DECIMALS	ANGLES	DATE			
XXX - 000	10 30	3-29-72			
9 1		DATE			
		3-3-72			
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY					
DATE					
1-15-72					
MATERIAL					
NEXT HIGHER ASSY					
B-DD-11/45-0					
FINISH					
SCALE					
SHEET 5 OF 9					

PARTS LIST		TITLE	
7475	10	PROCESSOR DATA & UNIBUS REGS (PDR)	
7474	4		
7473	2		
7472	1		
7471	2		
7470	11		
7475	10		
7474	4		
7473	2		
7472	1		
7471	2		
7470	11		

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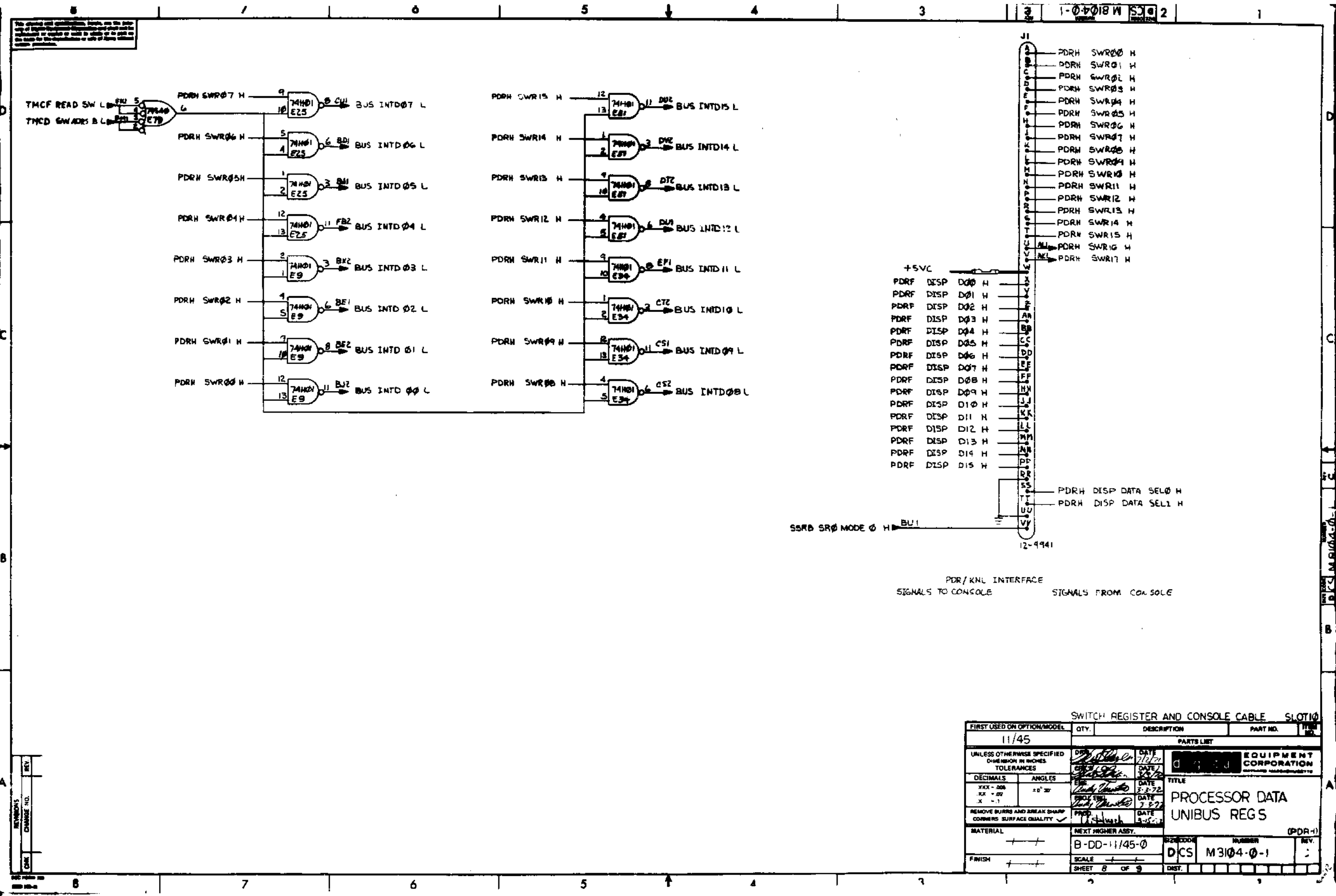
DCS M8104-0-1



DISP	S1	S0
L	L	MPU ADRES; CPU ADRES
L	H	LR
H	L	SHFR
H	H	BR

DATA DISPLAY MULTIPLEXER SLOT 10

FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO.	REV.
11/45				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES		EQUIPMENT CORPORATION		
TOLERANCES		TITLE		
DECIMALS	ANGLES	PROCESSOR DATA & UNIBUS REGS (PDRF)		
XXX - .001	30° ± 30'	DCS M8104-0-1		
XX - .002		REV. C		
X - .003		SHEET 7 OF 9		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL				
FINISH				

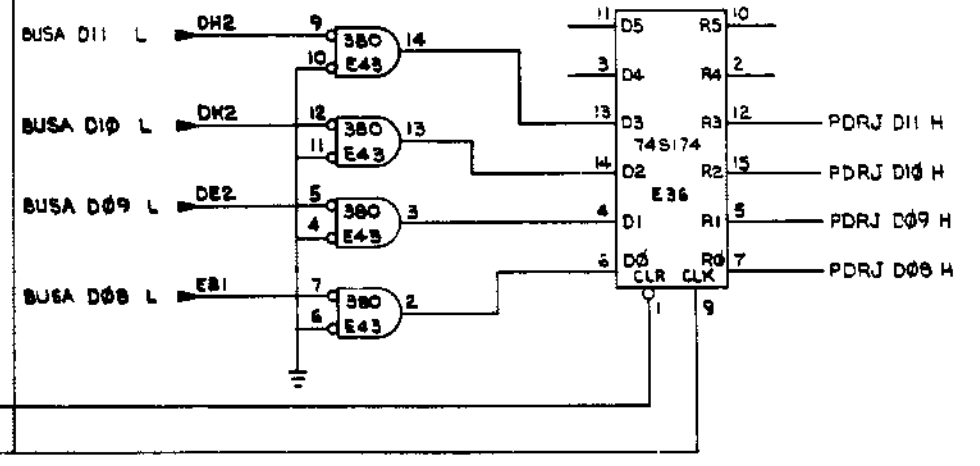
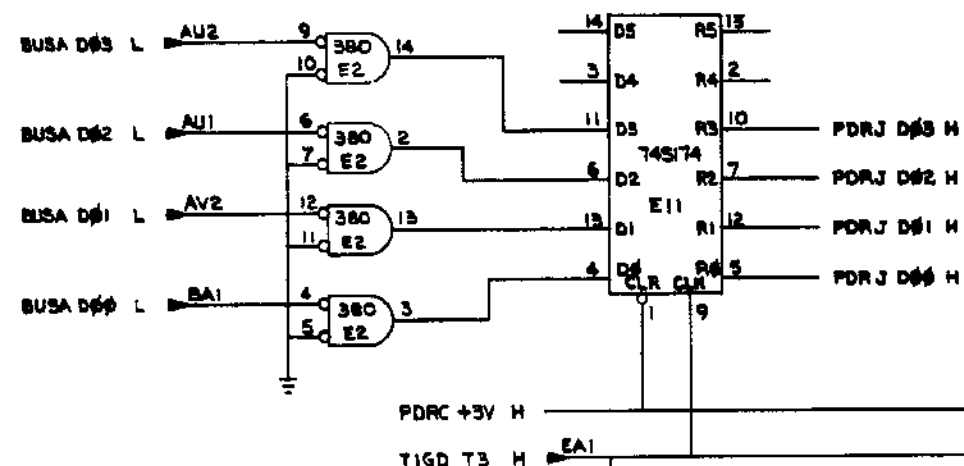
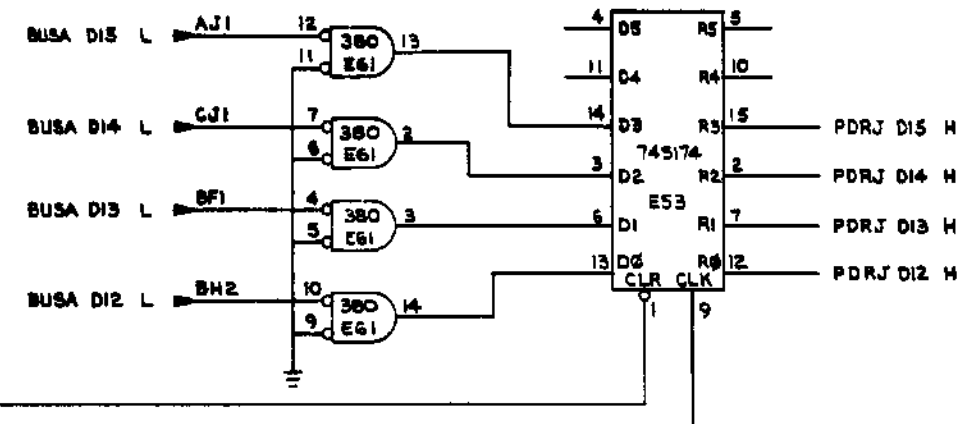
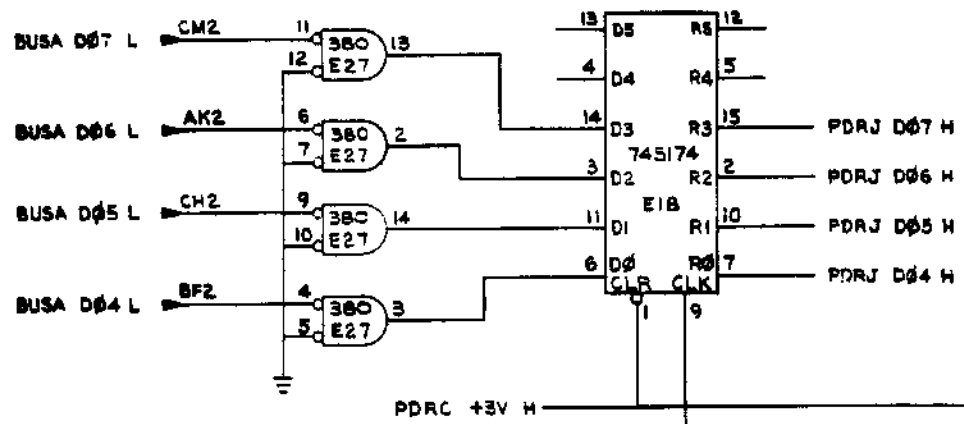


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REV.	
CHG	
REV.	
CHG	

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	FILE NO.
11/45				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DATE 3/2/72	EQUIPMENT CORPORATION	
DECIMALS	ANGLES	DATE 3/2/72		
XXX - .008	± 0° 30'	DATE 3/2/72	TITLE PROCESSOR DATA UNIBUS REG S	
.X - .1		DATE 3/2/72		
REMOVE BURRS AND BREAK SHARP CORNERS - SURFACE QUALITY		DATE 3/2/72		
MATERIAL	NEXT HIGHER ASSY.	DATE		
FINISH	B-DD-11/45-0	DATE		
	SCALE	DATE		
	SHEET 8 OF 9	DATE		

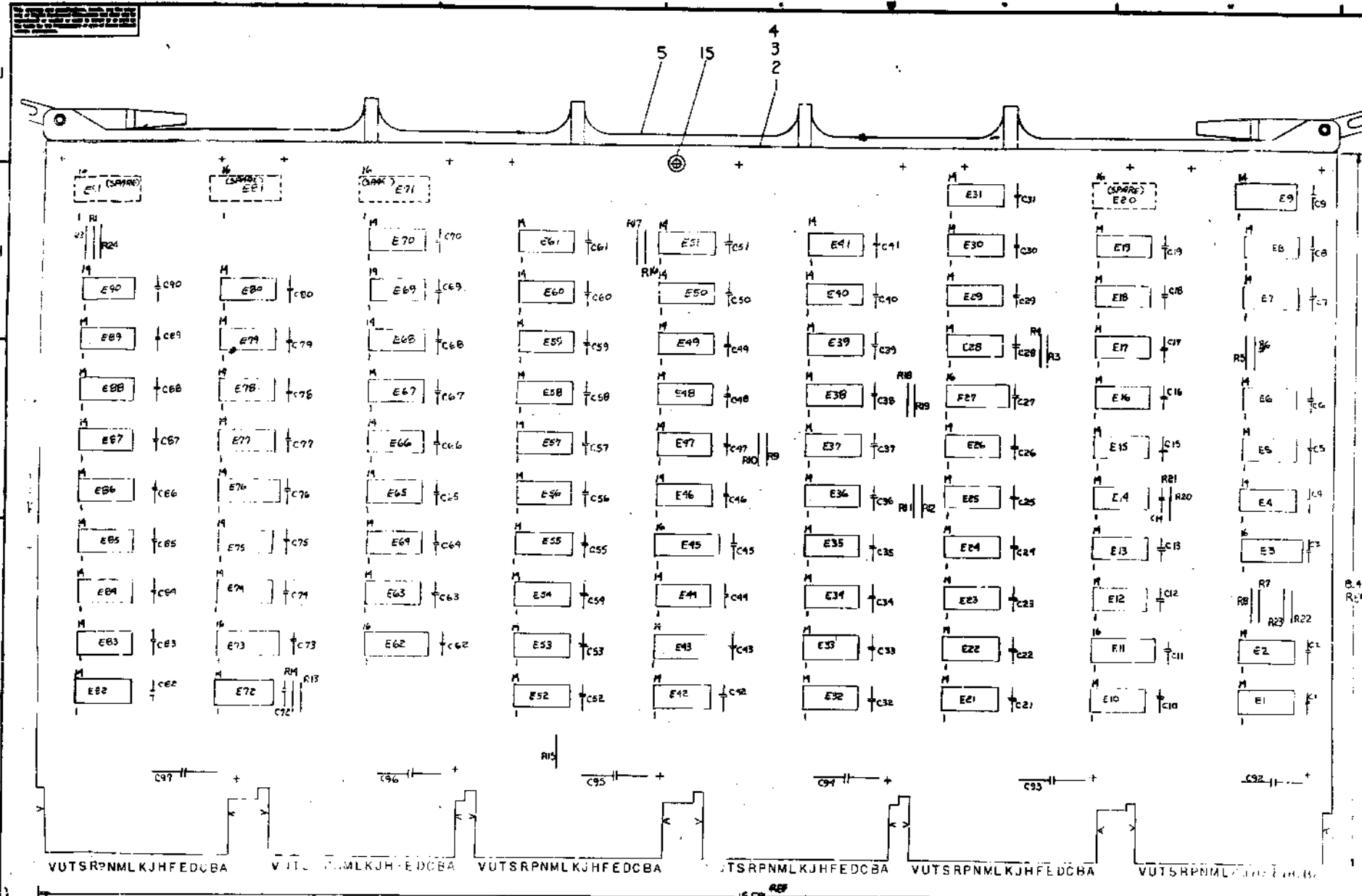
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BUS BUFFER REG SLOT 10

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/45				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES		DRN	DATE	
TOLERANCES		CHK'D	DATE	
DECIMALS	ANGLES	ENG	DATE	
.001 - .005	0° 30'	PROJ. ENG.	DATE	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY Y		PROF.	DATE	TITLE PROCESSOR DATA UNIBUS REGS (PDRJ)
MATERIAL		NEXT HIGHER ASSY.		
FINISH		B-DD-11/45-0	SIZE/CODE	NUMBER
		SCALE	DCS M8104-0-1	REV. C
		SHEET 9 OF 9	DRY.	

REVISIONS
 CHG. NO. DATE BY



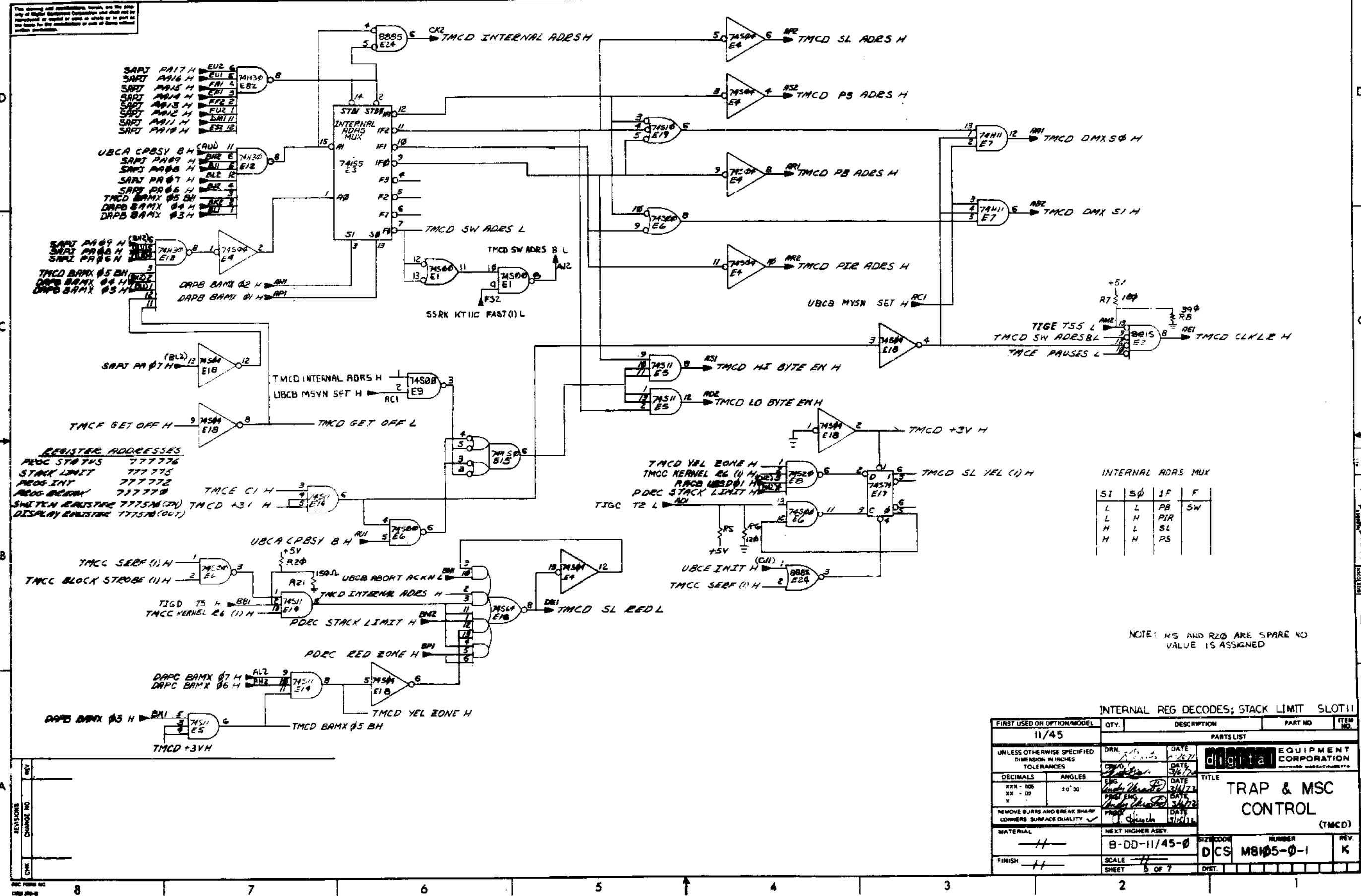
NOTE:
1. UNLESS OTHERWISE NOTED RESISTANCE IS IN Ω.
CAPACITANCE IS IN PICOFARADS, CAPS WITHOUT
VALUE NOTED ARE .01 MFD.

QTY	REF DESIGNATION	DESCRIPTION	PART NO.
1	R24	RESISTOR, 100Ω, 1/4W, 5%	1301470
1	E9	DEC IC 74155	1910546
1	E24, E59	DEC IC 8085	1910649
3	E45, E62, E73	DEC IC 74517A	1910550
1	E11	DEC IC 745153	1910547
3	E30, E50, E69	DEC IC 745140	1910546
1	E27	DEC IC 74512	1910547
5	E2, E40, E41, E54, E37	DEC IC 74574	1910544
1	E16, E25, E28	DEC IC 74564	1910542
11	E8, E90, E39, E40, E58, E55, E44, E65, E70, E75, E89	DEC IC 74528	1910539
17	E4, E47, E49, E56, E67, E72, E76, E77, E78, E88	DEC IC 74511	1910537
5	E13, E22, E44, E51, E83	DEC IC 74540	1910536
12	E4, E18, E22, E26, E35, E36, E46, E57, E63, E74, E85, E90	DEC IC 74504	1910534
5	E16, E25, E28, E40, E70, E83	DEC IC 74500	1910532
1	E2	DEC IC 8085A	1910531
1	E10	DEC IC 380A	1910485
1	E7	DEC IC 74111	1910267
1	E15, E22, E58, E61, E84	DEC IC 74558	1910260
1	E2, E3, E7, E44, E64, E85, E88	DEC IC 74130	1910059
1	E1	EYELET	9006732
1	R1, R14	RESISTOR, 680Ω, 1/4W, 5%	1801824
1	R17	RESISTOR, 180Ω, 1/4W, 5%	1301322
3	R15, R16, R17	RESISTOR, 1k, 1/4W, 5%	300365
1	R3	RESISTOR, 390Ω, 1/4W, 5%	1800309
2	R1, R3	RESISTOR, 330Ω, 1/4W, 5%	1800295
1	R21	RESISTOR, 150Ω, 1/4W, 5%	1810250
1	R4, R6, R18, R23	RESISTOR, 100Ω, 1/4W, 5%	1810247
1	C1-C8, C10-C19, C21-C70	CAP. 0.01uF, 100V, 20% DISC	100610
1	C72-C80, C82-C90	CAP. 0.1uF, 100V, 20% DISC	100610
6	C92 THRU C97	CAP. 5.8 uF, 35V, 10%	1006306
1		MODULE, MODULE	1210711-2-0
1		ETCHED CIRCUIT BOARD	5009903
REF		ECO MODULE HISTORY	B-MB-85-B-4
OFF		ASSY/DRAWING HOLE LAYOUT	B-MB-85-B-5
REF		P-Y COORDINATE HOLE LOCATION	B-MB-85-B-6

IC TYPE	QTY	REF
DEC 74574	1	B
DEC 74155	1	B
DEC 745153	1	B
DEC 74512	1	B
DEC 8085A	1	B

QTY	REF	DESCRIPTION	PART NO.
1	R24	RESISTOR, 100Ω, 1/4W, 5%	1301470
1	E9	DEC IC 74155	1910546
1	E24, E59	DEC IC 8085	1910649
3	E45, E62, E73	DEC IC 74517A	1910550
1	E11	DEC IC 745153	1910547
3	E30, E50, E69	DEC IC 745140	1910546
1	E27	DEC IC 74512	1910547
5	E2, E40, E41, E54, E37	DEC IC 74574	1910544
1	E16, E25, E28	DEC IC 74564	1910542
11	E8, E90, E39, E40, E58, E55, E44, E65, E70, E75, E89	DEC IC 74528	1910539
17	E4, E47, E49, E56, E67, E72, E76, E77, E78, E88	DEC IC 74511	1910537
5	E13, E22, E44, E51, E83	DEC IC 74540	1910536
12	E4, E18, E22, E26, E35, E36, E46, E57, E63, E74, E85, E90	DEC IC 74504	1910534
5	E16, E25, E28, E40, E70, E83	DEC IC 74500	1910532
1	E2	DEC IC 8085A	1910531
1	E10	DEC IC 380A	1910485
1	E7	DEC IC 74111	1910267
1	E15, E22, E58, E61, E84	DEC IC 74558	1910260
1	E2, E3, E7, E44, E64, E85, E88	DEC IC 74130	1910059
1	E1	EYELET	9006732
1	R1, R14	RESISTOR, 680Ω, 1/4W, 5%	1801824
1	R17	RESISTOR, 180Ω, 1/4W, 5%	1301322
3	R15, R16, R17	RESISTOR, 1k, 1/4W, 5%	300365
1	R3	RESISTOR, 390Ω, 1/4W, 5%	1800309
2	R1, R3	RESISTOR, 330Ω, 1/4W, 5%	1800295
1	R21	RESISTOR, 150Ω, 1/4W, 5%	1810250
1	R4, R6, R18, R23	RESISTOR, 100Ω, 1/4W, 5%	1810247
1	C1-C8, C10-C19, C21-C70	CAP. 0.01uF, 100V, 20% DISC	100610
1	C72-C80, C82-C90	CAP. 0.1uF, 100V, 20% DISC	100610
6	C92 THRU C97	CAP. 5.8 uF, 35V, 10%	1006306
1		MODULE, MODULE	1210711-2-0
1		ETCHED CIRCUIT BOARD	5009903
REF		ECO MODULE HISTORY	B-MB-85-B-4
OFF		ASSY/DRAWING HOLE LAYOUT	B-MB-85-B-5
REF		P-Y COORDINATE HOLE LOCATION	B-MB-85-B-6

QTY	REF DESIGNATION	DESCRIPTION	PART NO.
1	R24	RESISTOR, 100Ω, 1/4W, 5%	1301470
1	E9	DEC IC 74155	1910546
1	E24, E59	DEC IC 8085	1910649
3	E45, E62, E73	DEC IC 74517A	1910550
1	E11	DEC IC 745153	1910547
3	E30, E50, E69	DEC IC 745140	1910546
1	E27	DEC IC 74512	1910547
5	E2, E40, E41, E54, E37	DEC IC 74574	1910544
1	E16, E25, E28	DEC IC 74564	1910542
11	E8, E90, E39, E40, E58, E55, E44, E65, E70, E75, E89	DEC IC 74528	1910539
17	E4, E47, E49, E56, E67, E72, E76, E77, E78, E88	DEC IC 74511	1910537
5	E13, E22, E44, E51, E83	DEC IC 74540	1910536
12	E4, E18, E22, E26, E35, E36, E46, E57, E63, E74, E85, E90	DEC IC 74504	1910534
5	E16, E25, E28, E40, E70, E83	DEC IC 74500	1910532
1	E2	DEC IC 8085A	1910531
1	E10	DEC IC 380A	1910485
1	E7	DEC IC 74111	1910267
1	E15, E22, E58, E61, E84	DEC IC 74558	1910260
1	E2, E3, E7, E44, E64, E85, E88	DEC IC 74130	1910059
1	E1	EYELET	9006732
1	R1, R14	RESISTOR, 680Ω, 1/4W, 5%	1801824
1	R17	RESISTOR, 180Ω, 1/4W, 5%	1301322
3	R15, R16, R17	RESISTOR, 1k, 1/4W, 5%	300365
1	R3	RESISTOR, 390Ω, 1/4W, 5%	1800309
2	R1, R3	RESISTOR, 330Ω, 1/4W, 5%	1800295
1	R21	RESISTOR, 150Ω, 1/4W, 5%	1810250
1	R4, R6, R18, R23	RESISTOR, 100Ω, 1/4W, 5%	1810247
1	C1-C8, C10-C19, C21-C70	CAP. 0.01uF, 100V, 20% DISC	100610
1	C72-C80, C82-C90	CAP. 0.1uF, 100V, 20% DISC	100610
6	C92 THRU C97	CAP. 5.8 uF, 35V, 10%	1006306
1		MODULE, MODULE	1210711-2-0
1		ETCHED CIRCUIT BOARD	5009903
REF		ECO MODULE HISTORY	B-MB-85-B-4
OFF		ASSY/DRAWING HOLE LAYOUT	B-MB-85-B-5
REF		P-Y COORDINATE HOLE LOCATION	B-MB-85-B-6



INTERNAL REG DECODES; STACK LIMIT SLOT 11

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/45				

PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN.	DATE	digital EQUIPMENT CORPORATION
DECIMALS	ANGLES	10° 30'	
XXX - 020			
XX - 00			
X -			

TITLE

TRAP & MSC CONTROL (TMCD)

MATERIAL

NEXT HIGHER ASSEMBLY

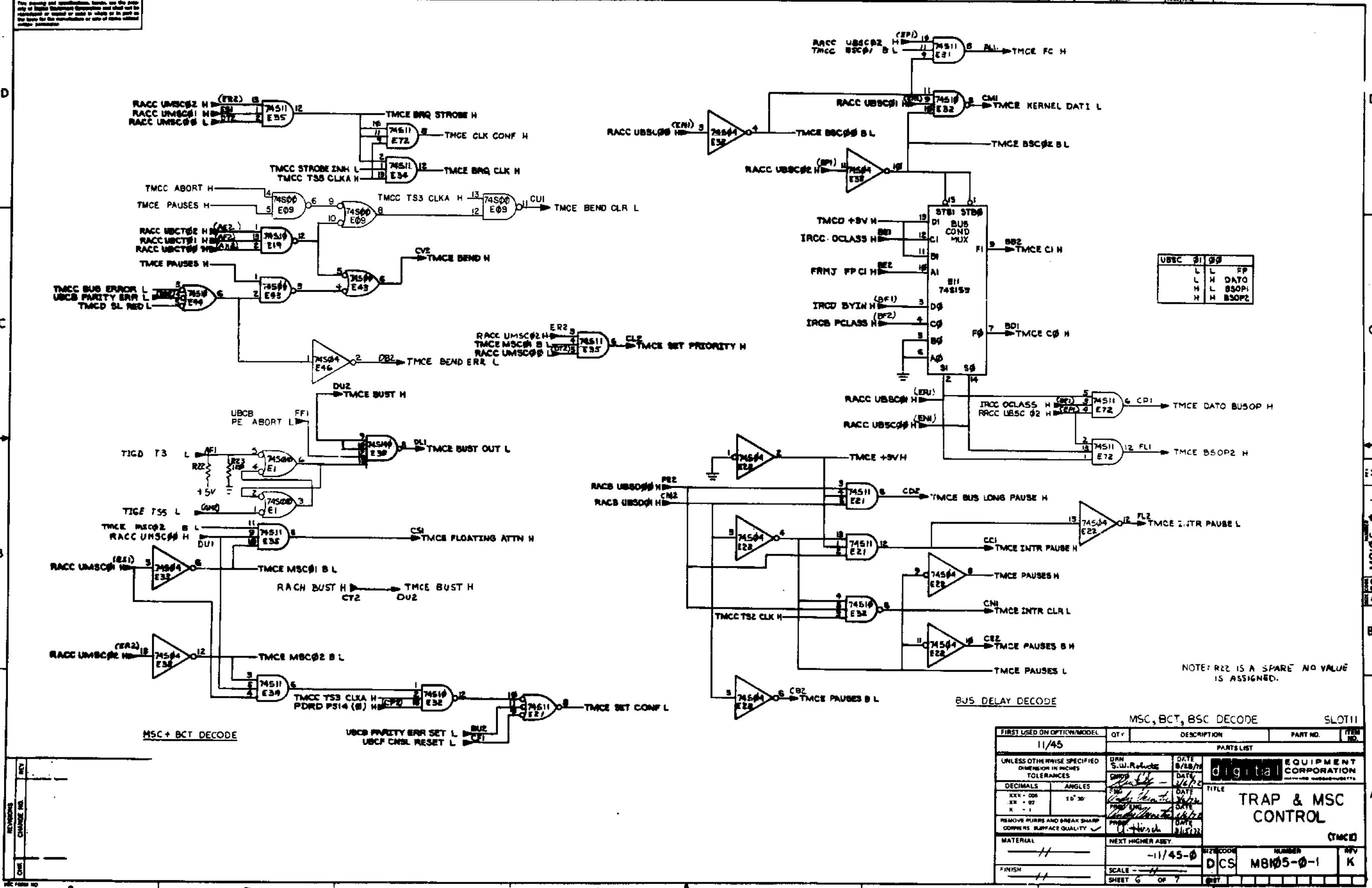
B-DD-11/45-0

SCALE

5 OF 7

FINISH

DCS M8105-0-1

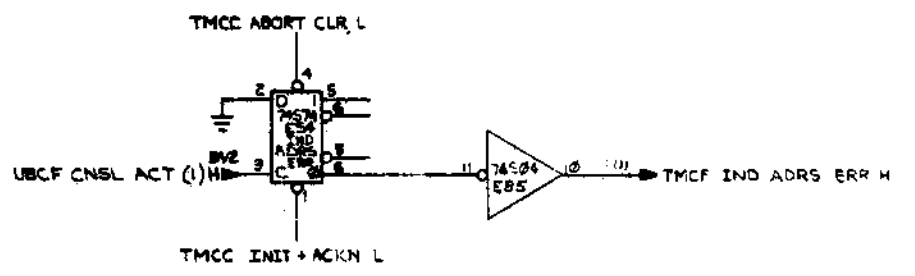
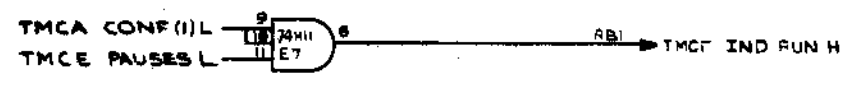
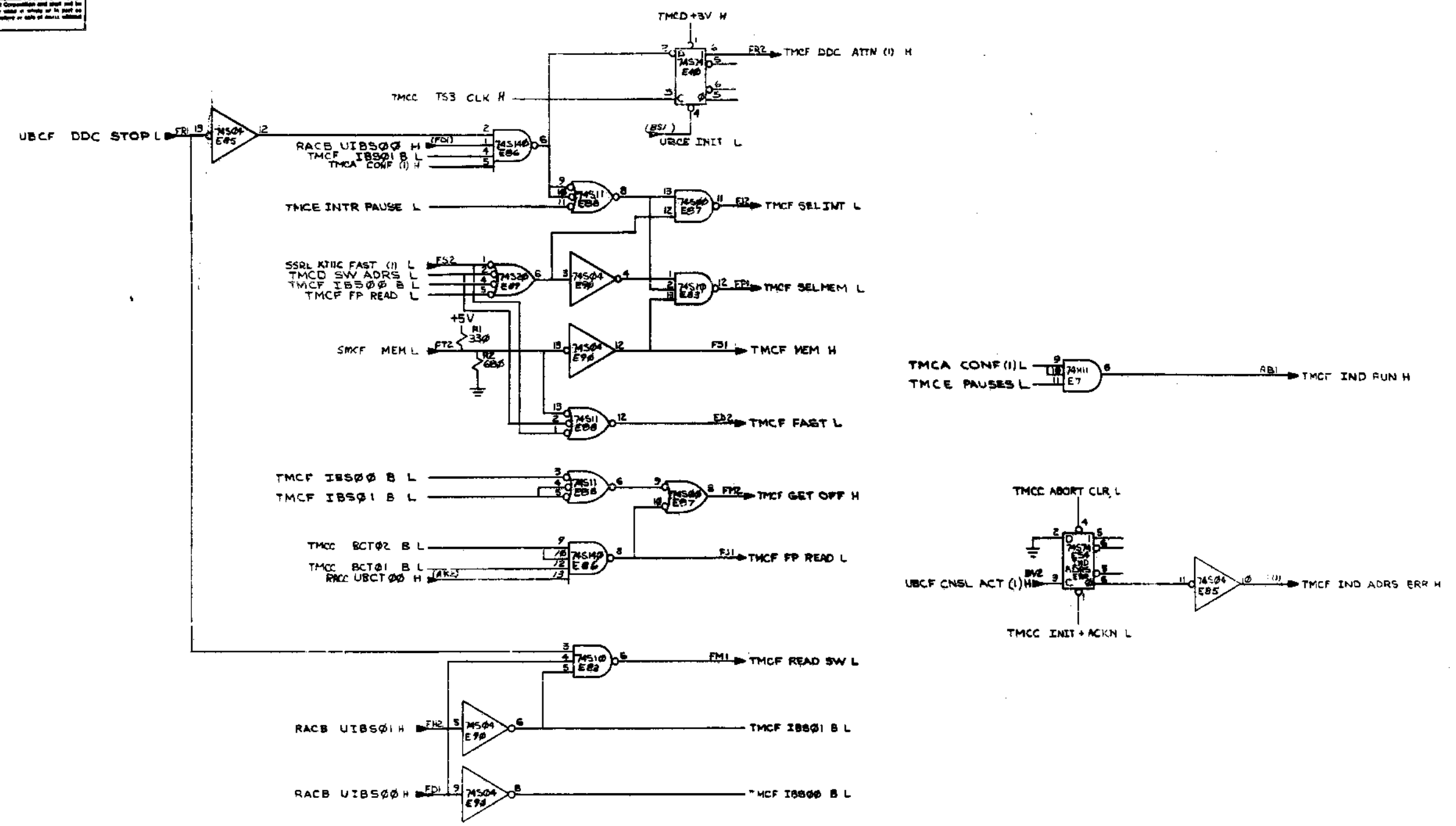


UBSC	Q1	Q0
L	L	FP
L	H	DATO
H	L	BSOP1
H	H	BSOP2

NOTE: R22 IS A SPARE NO VALUE IS ASSIGNED.

FIRST USED ON OPTION/MODEL		QTY	DESCRIPTION	PART NO.	ITEM NO.
11/45					
PARTS LIST					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN S.W. Roberts	DATE 8/28/78	digital EQUIPMENT CORPORATION TITLE TRAP & MSC CONTROL (TMCD)	
DECIMALS	ANGLES	DATE 1/4/78	DATE 1/4/78		
XXX - 008	10' 30"	DATE 1/4/78	DATE 1/4/78		
XX - 02		DATE 1/4/78	DATE 1/4/78		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		MATERIAL NEXT HIGHER ASSY.	SCALE 1:1	NUMBER DCS MB105-0-1	REV K
FINISH		SHEET 6 OF 7			

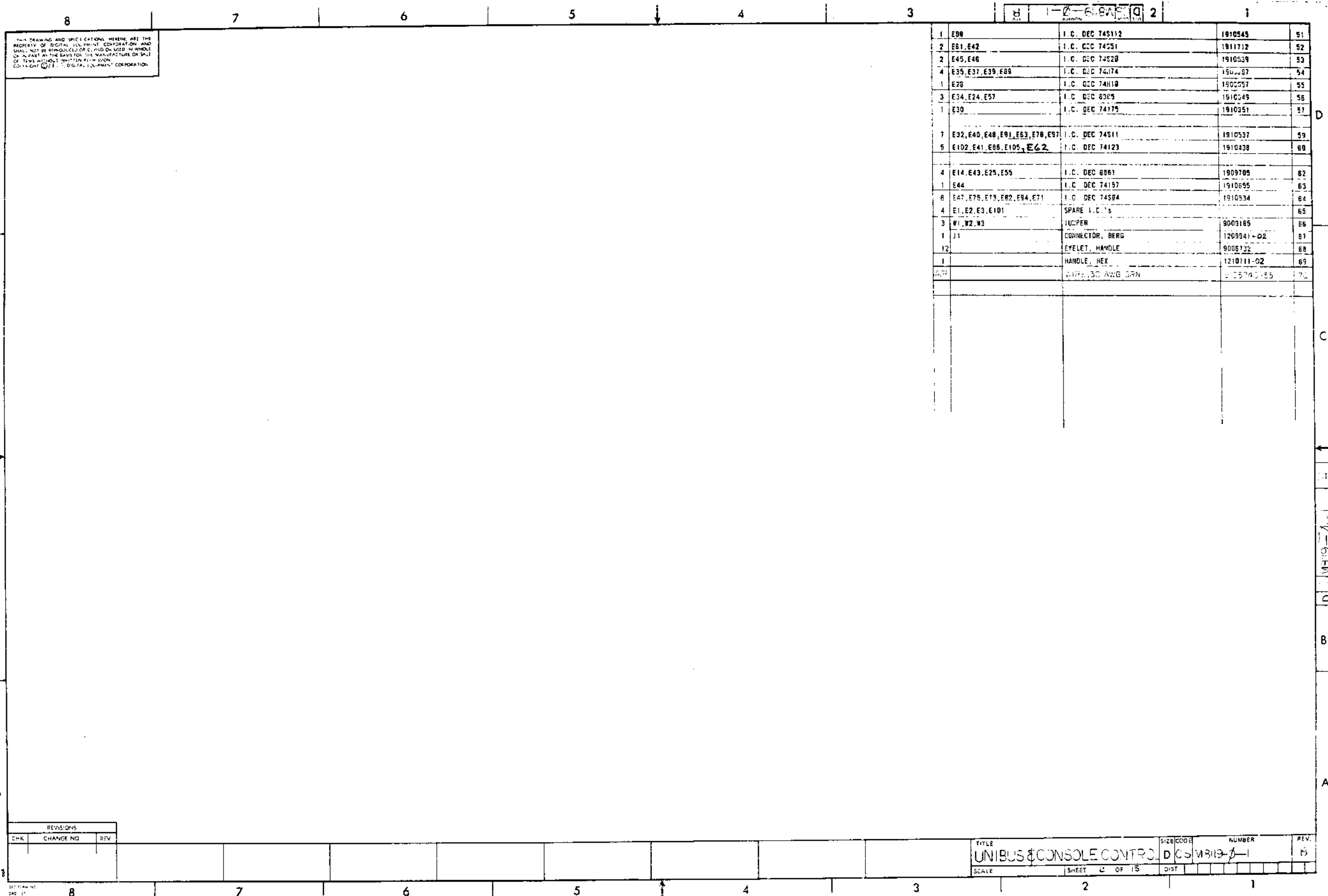
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BRMX SELECTION: FP READ SLOT11

FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO.	ITER NO.
11/45		PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES		DATE 11-28-74	DIGITAL EQUIPMENT CORPORATION	
DECIMALS	ANGLES	DATE 3/1/75	TITLE	
XAX - 006 XX - 02 R - 1	10° 30'	DATE 7/1/75	TRAP & MSC CONTROL (TMCF)	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		DATE 3/1/75		
MATERIAL	NEXT HIGHER ASSY.	DATE 3/1/75		
FINISH	B-DD-11/45-0	DATE 3/1/75	SIZE/DOOR DCS	NUMBER M8105-0-1
		DATE 3/1/75	SCALE	REV. K
		DATE 3/1/75	SHEET 7 OF 7	

REV	CHANGE NO.



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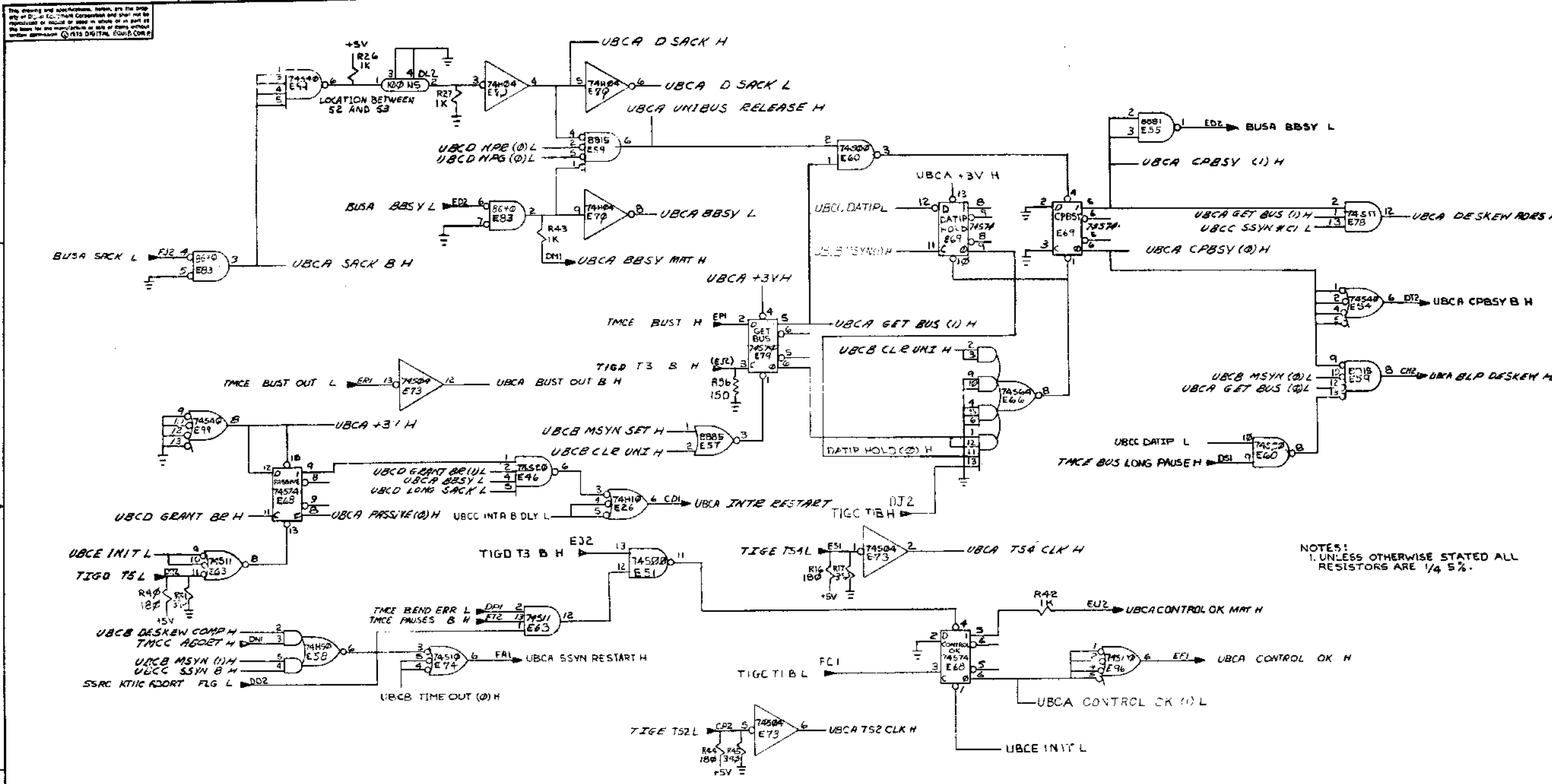
H 1-2-61 BAW Q 2

1	E98	I.C. DEC 74S112	1910545	51
2	E61, E42	I.C. DEC 74S51	1911712	52
2	E45, E46	I.C. DEC 74S20	1910539	53
4	E35, E37, E39, E89	I.C. DEC 74174	1910567	54
1	E28	I.C. DEC 74H10	1900257	55
3	E34, E24, E57	I.C. DEC 80P5	1910349	56
1	E30	I.C. DEC 74175	1910251	57
7	E32, E40, E48, E91, E63, E78, E97	I.C. DEC 74S11	1910537	59
5	E102, E41, E88, E105, E62	I.C. DEC 74123	1910438	60
4	E14, E43, E25, E55	I.C. DEC 88B1	1909705	62
1	E44	I.C. DEC 74157	1910655	63
6	E47, E75, E13, E82, E94, E71	I.C. DEC 74S94	1910534	64
4	E1, E2, E3, E101	SPARE I.C.'s		65
3	W1, W2, W3	JUMPER	9003185	66
1	J1	CONNECTOR, BERG	1209941-02	67
12		EYELET, HANDLE	9005732	68
1		HANDLE, HEX	1210711-02	69
20		WIRE, 30 AWG BRN	1205740-55	70

REVISIONS		
CHK	CHANGE NO	REV

TITLE	UNIBUS & CONSOLE CONTR	SIZE/CODE	DCS	NUMBER	1	REV.	5
SCALE		SHEET	2	OF	15	DIST	

96

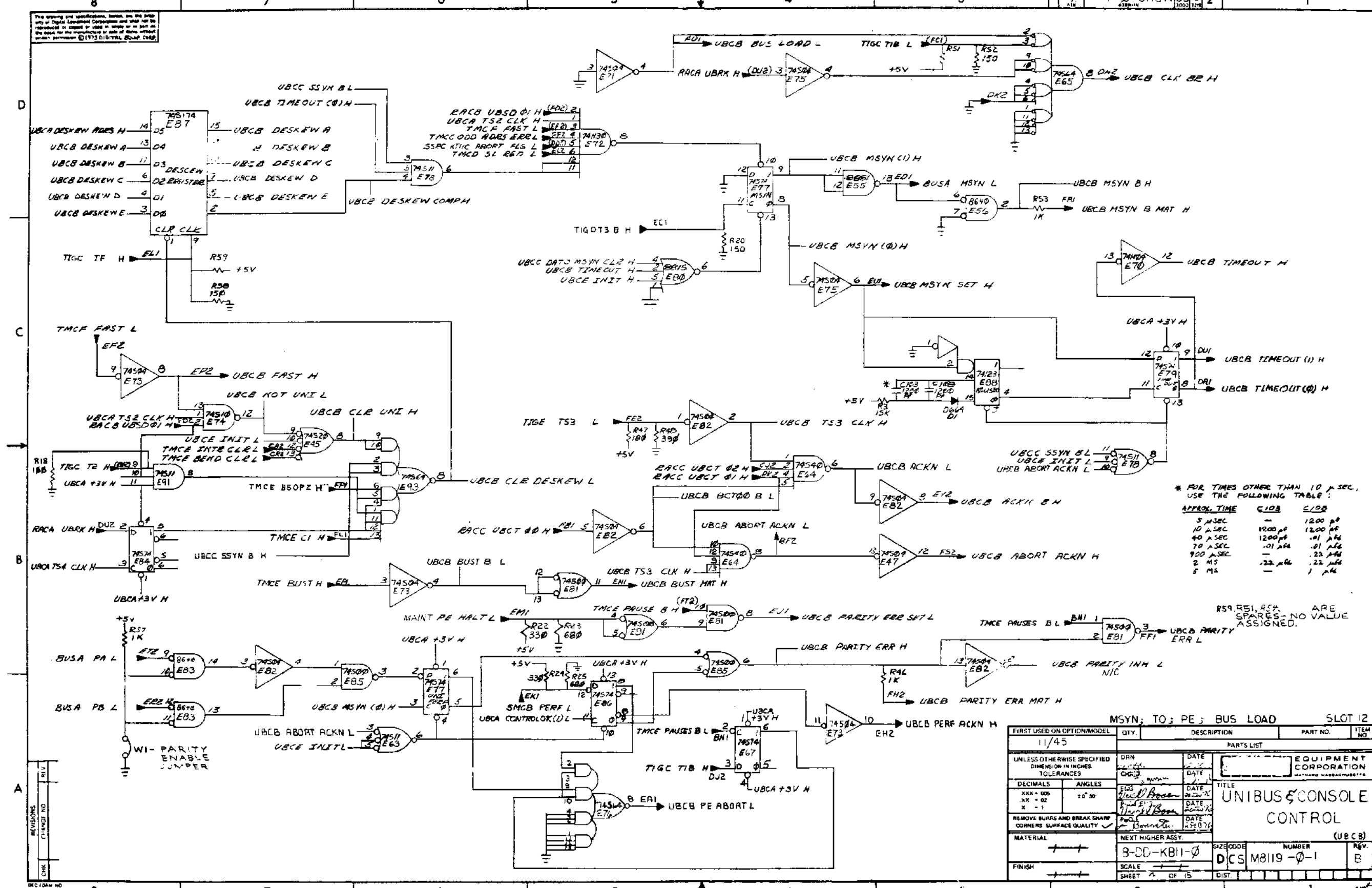


NOTES:
1. UNLESS OTHERWISE STATED ALL RESISTORS ARE 1/4 5%.

CP BUSY; CONTROL OK; TIG RESTARTS				SLOT 12	
FIRST USED	QTY.	DESCRIPTION	PART NO.	REV.	DATE
11/75					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES					
DECIMALS	FRACTIONS	THIS DRAWING IS THE PROPERTY OF EQUIPMENT CORPORATION			
MAX +0.005	10/32	UNIBUS & CONSOLE CONTROL (UBCA)			
MIN -0.005		MATERIAL			
FINISH		B-DD-KB1-0		DCC M8119-0-1	

REVISIONS
CHANGE NO.
REV.
CHK
DEC 1 1975

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* FOR TIMES OTHER THAN 10 μSEC, USE THE FOLLOWING TABLE:

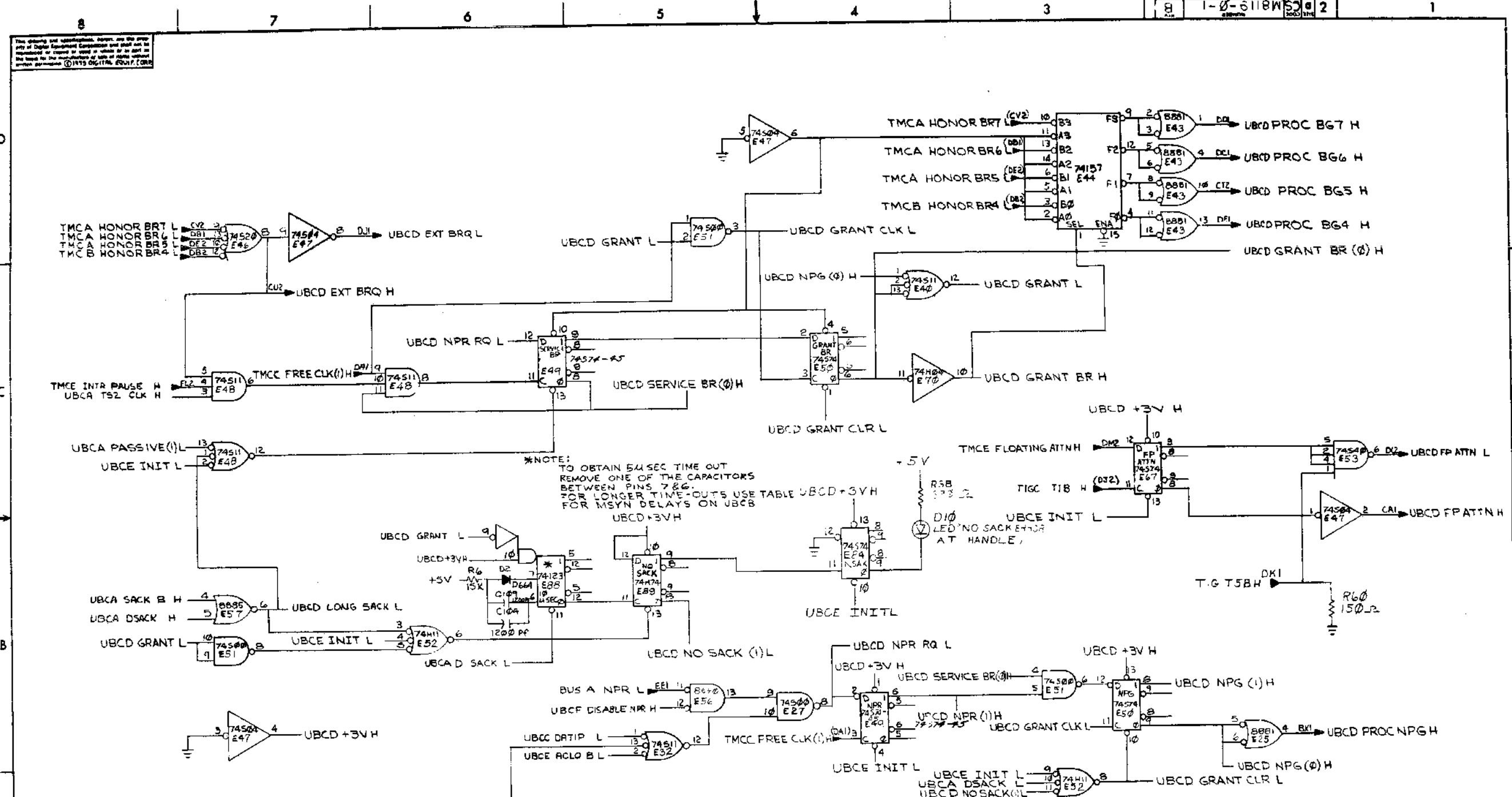
APPROX. TIME	C10B	C10A
5 μSEC	—	1200 pF
10 μSEC	1200 pF	1200 pF
40 μSEC	1200 pF	.01 μF
70 μSEC	—	.01 μF
900 μSEC	—	.22 μF
2 MS	—	.22 μF
5 MS	—	1 μF

R59, R51, R52 ARE SPARES - NO VALUE ASSIGNED.

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/45					
UNLESS OTHERWISE SPECIFIED DRN DATE					
DIMENSION IN INCHES CQC DATE					
TOLERANCES DECIMALS ANGLES					
XXX + .006 EFG DATE					
.XX + .02 .XX + .02 DATE					
X - .1 .XX + .02 DATE					
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY					
MATERIAL NEXT HIGHER ASSY.					
FINISH SCALE					
SHEET 7 OF 15					

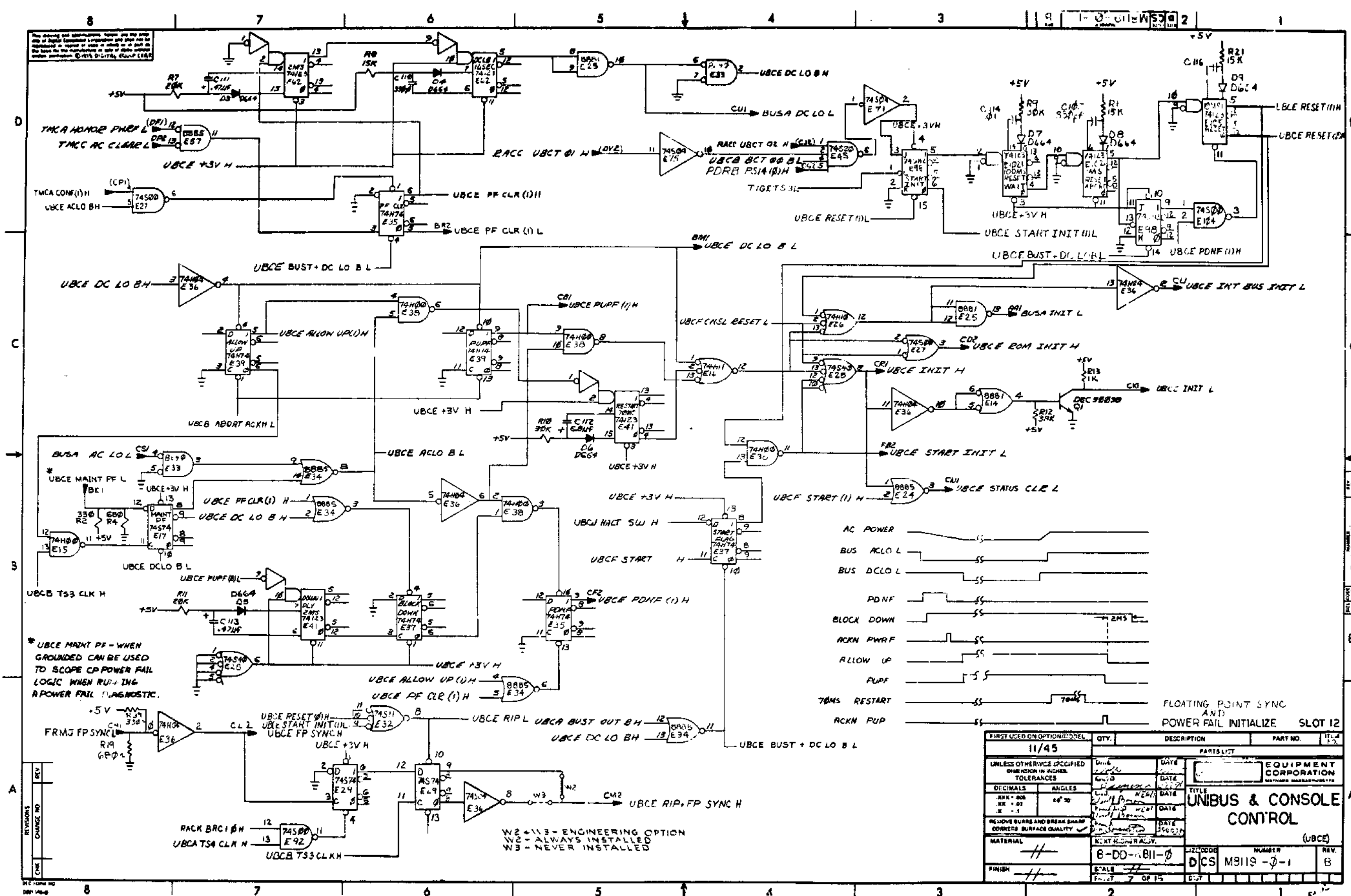
PARTS LIST		TITLE	
EQUIPMENT CORPORATION		UNIBUS CONSOLE CONTROL	
MATERIAL		NEXT HIGHER ASSY.	
3-DD-KB11-0		(UBCB)	
DCS M8119-0-1		NUMBER	
REV. B		REV.	

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*NOTE:
TO OBTAIN 50 SEC TIME OUT
REMOVE ONE OF THE CAPACITORS
BETWEEN PINS 7 & 6.
FOR LONGER TIME-OUTS USE TABLE UBCE+3VH
FOR MSYN DELAYS ON UBCE

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/45				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES				
DECIMALS	ANGLES	DRN	DATE	EQUIPMENT CORPORATION MAKING MACHINES, ETC.
.XX - .02	10° 30'	CHPT	DATE	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		ENG	DATE	TITLE UNIBUS & CONSOLE CONTROL (UBCD)
		PROJ ENG	DATE	
MATERIAL	NEXT HIGHER ASSY	PRCA	DATE	SIZE CODE NUMBER B-DD-KB11-0-1
FINISH	SCALE	DATE	DATE	
	SHEET 6 OF 15			REV. B



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TAKA HONOR PWR L (DPI) 12
TACC AC CLARE L (DPI) 12
UBCE +3V H

TACA CONF (I) H (CPI) 6
UBCE ACLO BH 5

UBCE DC LO BH 3
UBCE BUST+DC LO B L

UBCE ALLOW UP (I) H 5
UBCE ACLO B L

BUSA AC LO L 4
UBCE MAINT PF L 5
UBCE DC LO B H 2

UBCE DCLO B L 12
UBCE PUFF (I) H 3
UBCE +3V H

UBCE TS3 CLK H 12
UBCE PUFF (I) L 3
UBCE +3V H

UBCE +3V H 4
UBCE ALLOW UP (I) H 4
UBCE PF CLR (I) H 5

UBCE RESET (I) H 12
UBCE START INIT (I) L 4
UBCE FP SYNC H 12

RACK BRCI (I) H 12
UBCA TSA CLN H 13
UBCE TS3 CLK H 12

UBCE DC LO BH 12
UBCE BUST+DC LO B L 12
UBCE INT BUS INIT L 13

EACC UBCT (I) H (DVE) 11
UBCE PF CLR (I) H 11
UBCE PF CLR (I) L 11

UBCE DC LO B L 12
UBCE PUFF (I) H 12
UBCE +3V H

UBCE ALLOW UP (I) H 12
UBCE ACLO B L 12
UBCE +3V H

UBCE MAINT PF L 12
UBCE DC LO B H 12
UBCE DCLO B L 12

UBCE PUFF (I) L 12
UBCE +3V H 12
UBCE +3V H

UBCE TS3 CLK H 12
UBCE PUFF (I) L 12
UBCE +3V H

UBCE +3V H 12
UBCE ALLOW UP (I) H 12
UBCE PF CLR (I) H 12

UBCE RESET (I) H 12
UBCE START INIT (I) L 12
UBCE FP SYNC H 12

UBCE TS3 CLK H 12
UBCE TS3 CLK H 12
UBCE TS3 CLK H 12

UBCE DC LO BH 12
UBCE BUST+DC LO B L 12
UBCE INT BUS INIT L 13

UBCE DC LO BH 12
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UBCE INT BUS INIT L 13

UBCE DC LO BH 12
UBCE BUST+DC LO B L 12
UBCE INT BUS INIT L 13

UBCE DC LO BH 12
UBCE BUST+DC LO B L 12
UBCE INT BUS INIT L 13

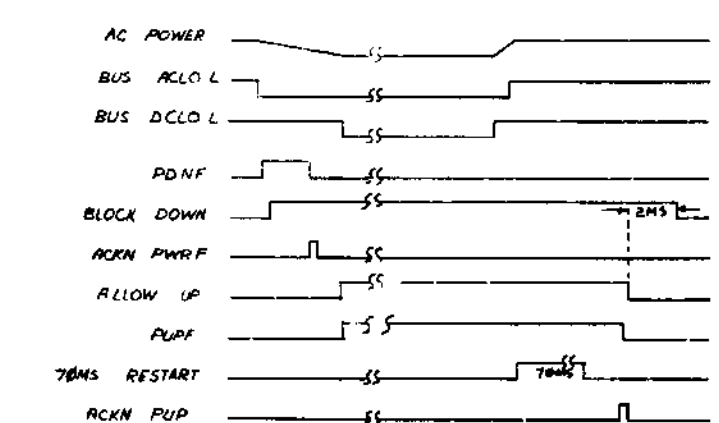
UBCE DC LO BH 12
UBCE BUST+DC LO B L 12
UBCE INT BUS INIT L 13

UBCE DC LO BH 12
UBCE BUST+DC LO B L 12
UBCE INT BUS INIT L 13

UBCE DC LO BH 12
UBCE BUST+DC LO B L 12
UBCE INT BUS INIT L 13

UBCE DC LO BH 12
UBCE BUST+DC LO B L 12
UBCE INT BUS INIT L 13

UBCE DC LO BH 12
UBCE BUST+DC LO B L 12
UBCE INT BUS INIT L 13



FIRST USED ON OPTION/REL.	QTY.	DESCRIPTION	PART NO.	ILL. NO.
11/45				
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES				
DECIMALS	ANGLES	TITLE		
±.005	±.005	UNIBUS & CONSOLE CONTROL (UBCE)		
REMOVE SQUARES AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL	NEXT HIGHER QUAL.	J2C CODE	NUMBER	REV.
FINISH	B-D-D-MB11-0-1	DCS	MB11S-0-1	B

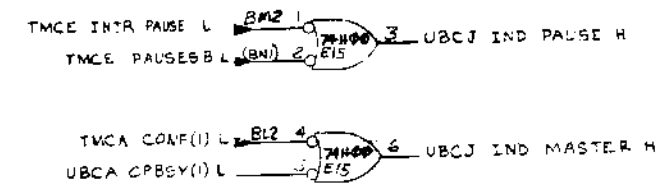
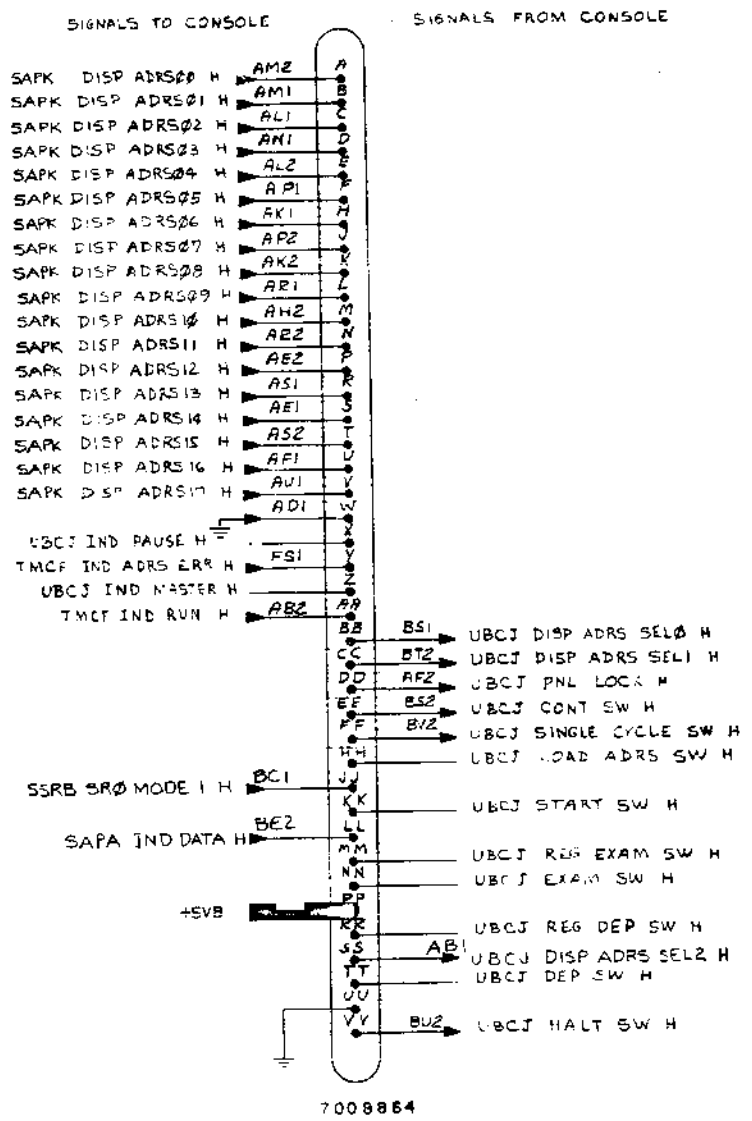
W2 + W3 - ENGINEERING OPTION
W2 - ALWAYS INSTALLED
W3 - NEVER INSTALLED

DCS MB11S-0-1

10

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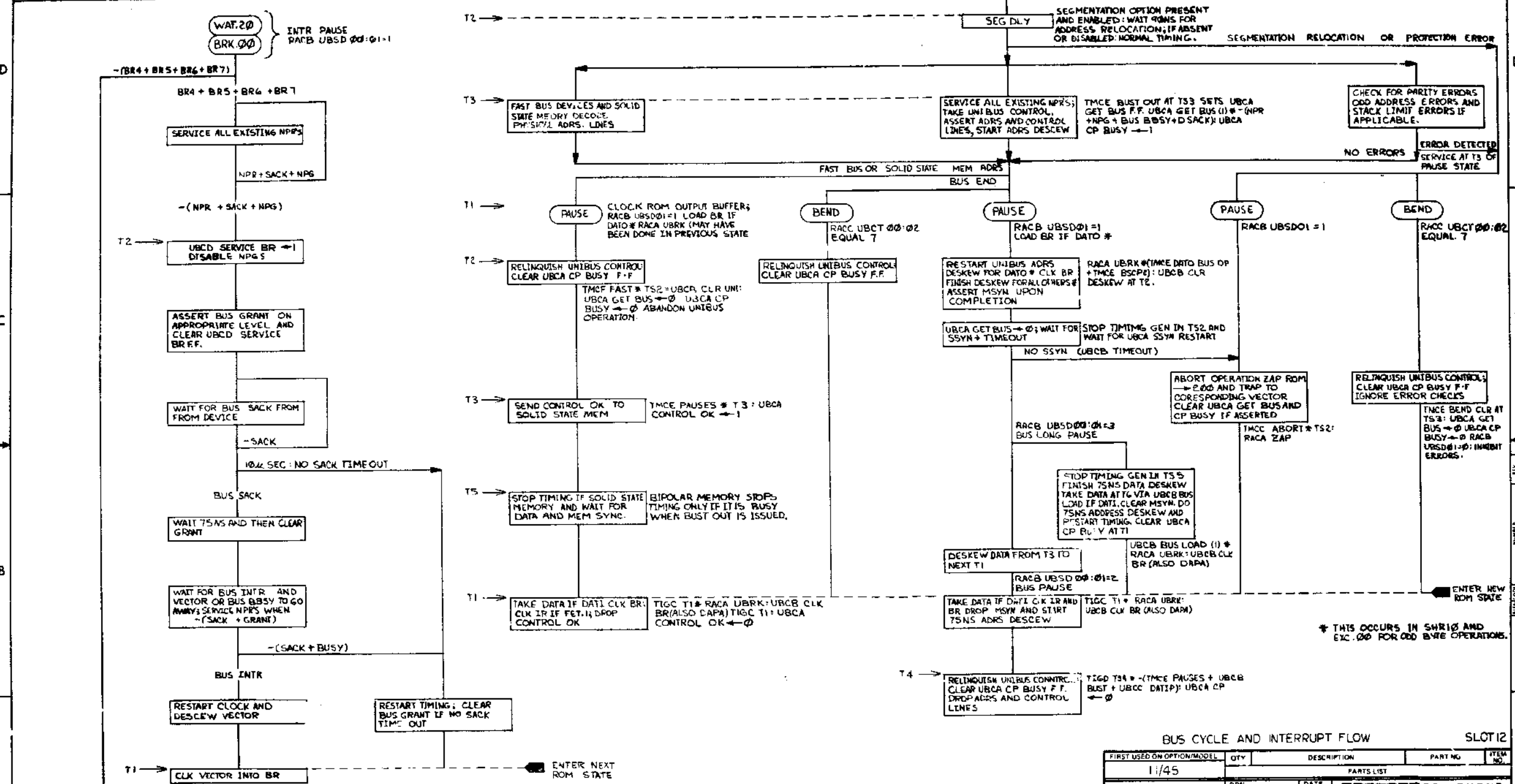
UBC/KNL INTERFACE



FIRST USED ON OPTION/MODEL		QTY	DESCRIPTION	PART NO	ITEM NO
11/45			CONSOLE CABLE, INDICATORS		SLOT 12
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES					
DECIMALS	ANGLES				
XXX - 006	10° 30'				
XX - 02					
X - 1					
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY					
MATERIAL		NEXT HIGHER ASSY.			
FINISH		3-DD-KB11-0	SIZE CODE	NUMBER	REV
		SCALE	DCS	M819	0
		SHEET			
		OF 15			
		DIST.			

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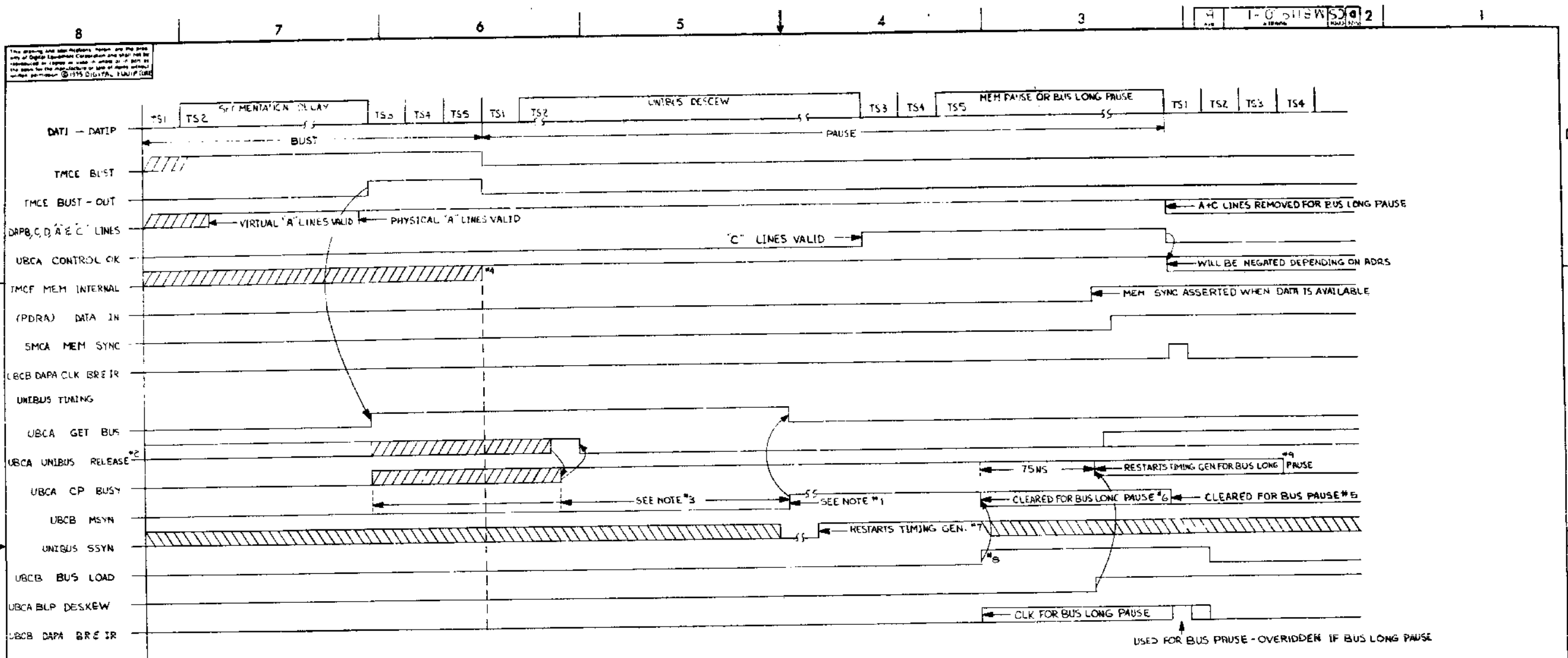


REV
CHG
NO
BY
DATE

NOTE:
IF PROCESSOR HAS MB104 REV C
AND KB11-A ECO #13 USE PRINT
UBCN FOR UNIBUS TIMING.

BUS CYCLE AND INTERRUPT FLOW SLOT 12

FIRST USED ON OPTION MODEL	QTY	DESCRIPTION	PART NO	ITEM NO
11/45				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES				
DECIMALS	ANGLES	DATE	TITLE	
±.000	10° 30'	DATE	UNIBUS & CONSOLE CONTROL (UBCK)	
±.001		DATE	DCS M8119-C-1	
±.002		DATE		
±.005		DATE		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL	FINISH	NEXT HIGHER ASSY	SIZE CODE	NUMBER
			DCS	M8119-C-1
			SCALE	REV
			SHEET 11	B
			OF 15	
			DIST	



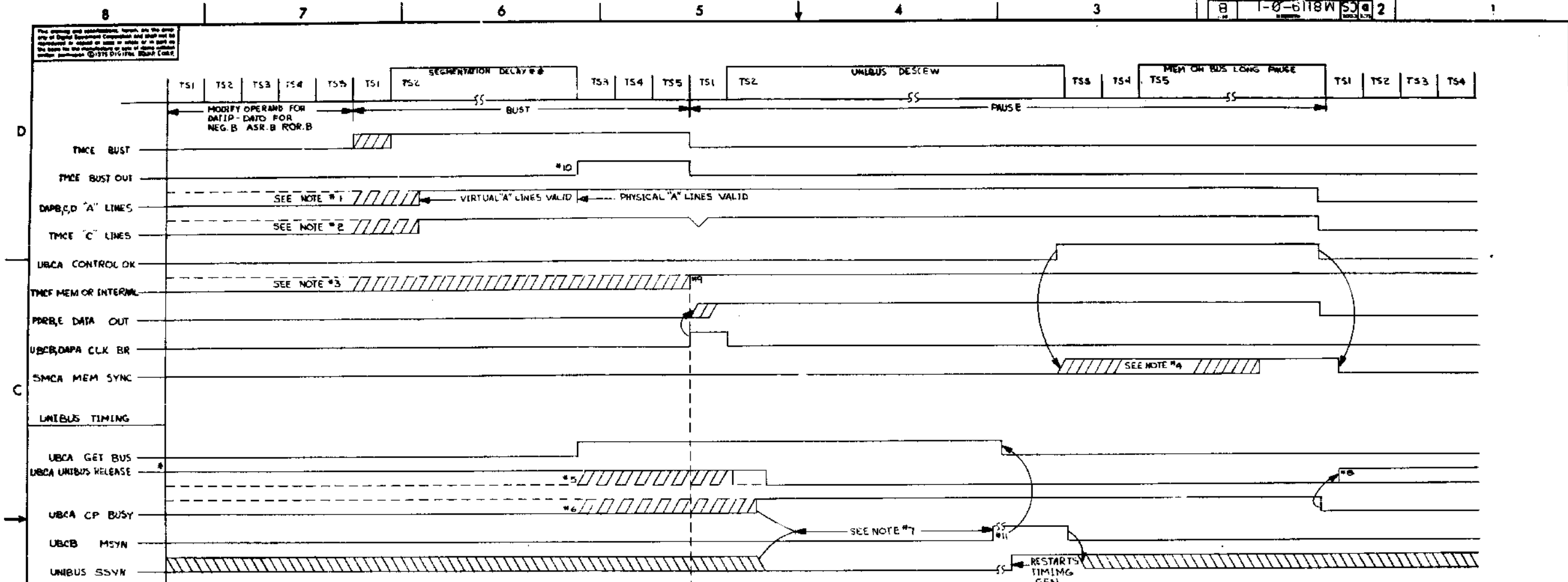
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- MSYN IS NOT SET IF ODD ADRS, SEGMENTATION, PARITY OR STACK LIMIT ERROR HAS OCCURED. ERROR CONDITION RESTARTS TIMING GENERATOR AND ROM IS FORCED TO ZAP.
- UNIBUS RELEASE = -(NPG + NPR + DSRC + ABSY)
- MSYN IS SET 150 NS AFTER CP BUSY IS OFF OR WHENEVER SSYN IS NOT PRESENT AFTER THE 150 NS DESKEW
- IF ADRS IS INTERNAL OR SOLID STATE MEMORY UNIBUS CTRL LOGIC IS CLEARED, DESKEW STOPPED, MSYN NOT ASSERTED.
- BUS PAUSE - ADRS WILL NOT BE CHANGED IMMEDIATELY UPON EXITING PAUSE STATE
- BUS LONG PAUSE - 75 NS ADRS DESKEW AFTER NEGATION OF MSYN MUST BE DONE BEFORE TIMING GEN. RESTARTS AT TS OF PAUSE CYCLE BECAUSE 'A' & 'C' LINES WILL CHANGE UPON EXITING PAUSE STATE
- IF NON-EXISTANT MEMORY, TIMEOUT RESTARTS CLOCK.
- BUS LOAD IS SET ONE CLOCK AFTER TS TO ALLOW COMPLETION OF WRITE TO SCRATCHPAD FOR PREVIOUS CYCLE BEFORE NEW IR & BR ARE LOADED
- CLEARED 75 NS AFTER MSYN OFF FOR BUS PAUSE

NOTE:
IF PROCESSOR HAS MB104 REV C AND KB11-A ECO #13 USE PRINT UBCP FOR UNIBUS TIMING.

DATI - DATIP TIMING DIAGRAM SLOT 12

FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	BRN	DATE	digital EQUIPMENT CORPORATION	
DECIMALS	ENG	DATE		
ANGLES	DATE	TITLE	UNIBUS & CONSOLE CONTROL (UBCL)	
XXX - 006	DATE	DATE		
XX - 02	DATE	DATE	DCS M 8119-0-1	
X - 1	DATE	DATE		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	DATE	DATE	REV. 5	
MATERIAL	DATE	DATE		
FINISH	DATE	DATE	REV. 5	
SCALE	DATE	DATE		
SHEET 12 OF 10	DATE	DATE	REV. 5	
DIST	DATE	DATE		



- NOTES:
- 1. ADDRESS WILL NOT BE CHANGING IF DATIP IS PRECEDED BY DATIP (DOTTED LINE SHOWS DATIP)
 - 2. CONTROL LINES WILL SHOW DATIP OR ELSE ARE INVALID UNTIL CONTROL ON
 - 3. MEM OR INTERNAL WILL BE TRUE UPON ENTERING DATIP IF ADDRESS WAS SEMI CONDUCTOR MEMORY OR INTERNAL FROM PREVIOUS DATIP
 - 4. MEM SYNC IS ASSERTED BY SEMI CONDUCTOR MEMORY AS SOON AS DATA IS TAKEN IF DATA IS TAKEN AND MEM SYNC ASSERTED PRIOR TO T 5 OF THE PAUSE CYCLE TIMING GENERATOR IS NOT STOPPED IN T 5
 - 5. UNIBUS RELEASE WILL BE TRUE IF PREVIOUS OPERATION WAS A DATIP TO A UNIBUS ADDRESS.
 - 6. CP BUSY WILL BE ASSERTED UPON ENTRY INTO DATIP IF PREVIOUS OPERATION WAS A DATIP TO A UNIBUS ADDRESS

- 7. DESKEW FOR 'A' 'C' 'D' LINES IS 150 NS STARTING WHEN CP BUSY IS SET AND SSVN FROM THE PREVIOUS BUS OPERATION IS NEGATED.
- 8. UNIBUS RELEASE BECOMES TRUE IF NO NPR DEVICE HAS BEEN GIVEN CONTROL OR IS REQUESTING PRIOR TO CP BUSY GETTING CLEARED
- 9. IF ADDRESS IS SEMI CONDUCTOR MEMORY OR INTERNAL, UNIBUS LOGIC IS CLEARED DESKEW IS STOPPED AND MSYN IS NOT ASSERTED.
- 10. BUST OUT IS INHIBITED IN 'RD.00 FOR CONDITIONAL BUST (MSC=5) IF EN # SM123+BR INST# BRQ TRUE : DM123#-(C)JH#SM123+BR INSTR)
- 11. MSYN IS NOT SET IF AN ODD ADDR, STACK LIMIT RED SEGMENTATION OR PARITY ERROR HAS OCCURED

NOTE: ALL SIGNALS ARE SHOWN TRUE WHEN HIGH

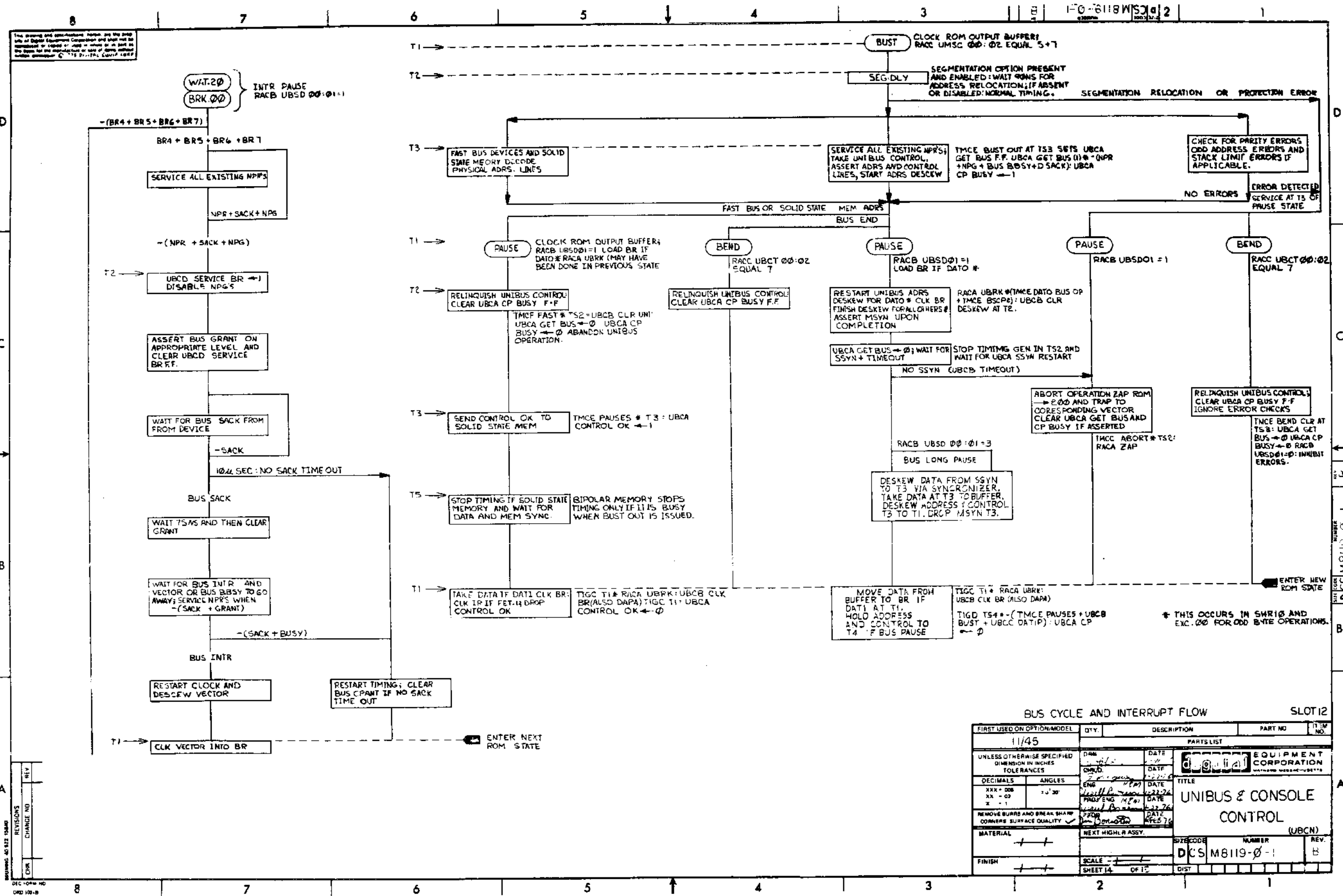
NOTE: IF PROCESSOR HAS M8104 REV E AND K811-A ECO #13, USE PRINT UBCP FOR UNIBUS TIMING.

DATO TIMING DIAGRAM

SLOT 12

FIRST USED ON OPTION/MODEL 11/45	QTY	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES	DATE 1-23-76	DATE 1-23-76	EQUIPMENT CORPORATION	
DECIMALS ANGLES .XX = .02 X = .1 10° 30'	DATE 1-23-76	DATE 1-23-76	UNIBUS & CONSOLE CONTROL	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	DATE 2/18/76	DATE 2/18/76	(UBCN#)	
MATERIAL	SCALE	SIZE CODE	NUMBER	REV
FINISH	SHEET 13 OF 15	DCS	M8119-0-1	B

REVISIONS
 CHANGE NO
 BY
 DATE

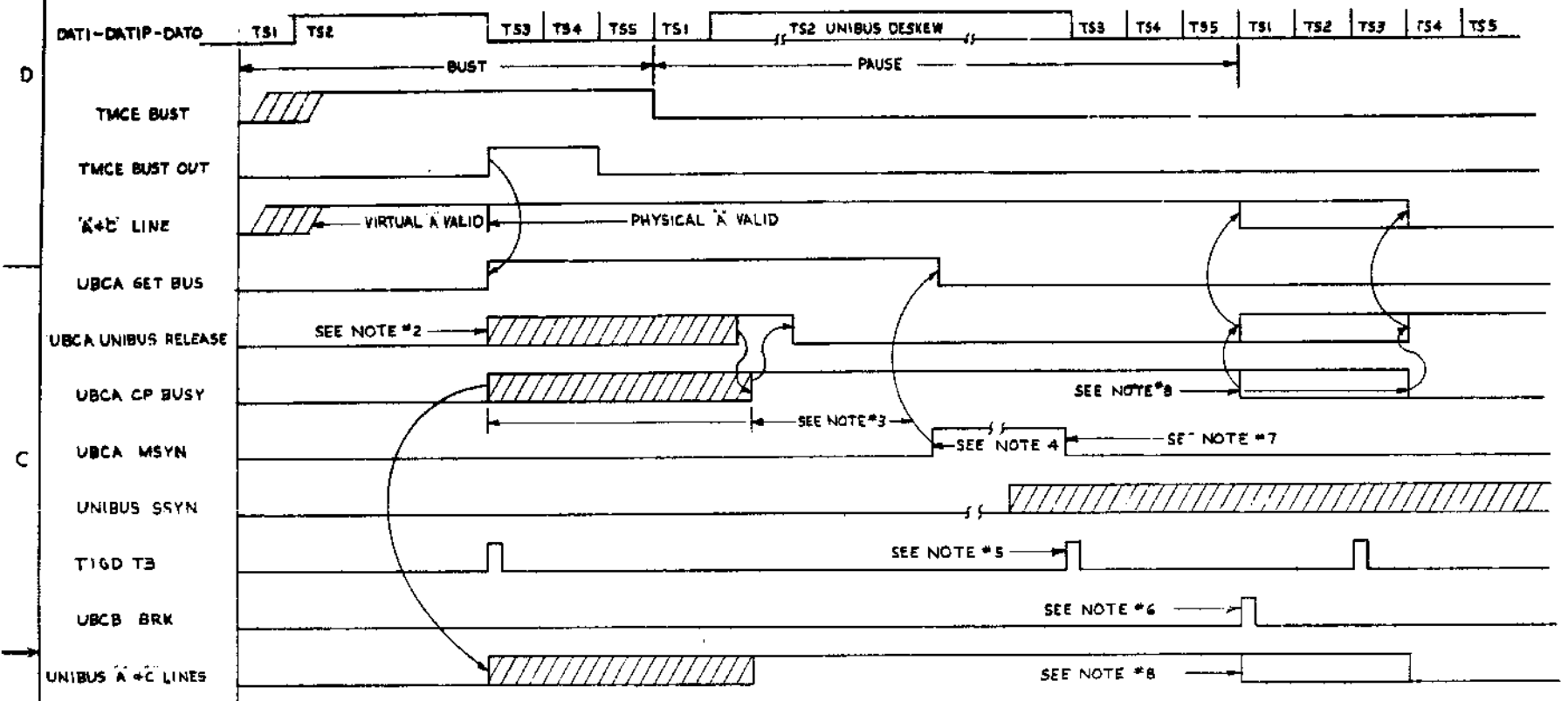


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REV	NO	DATE	BY
1	1		
2	1		
3	1		
4	1		
5	1		
6	1		
7	1		
8	1		

NUMBER
 DCS M8119-0-1

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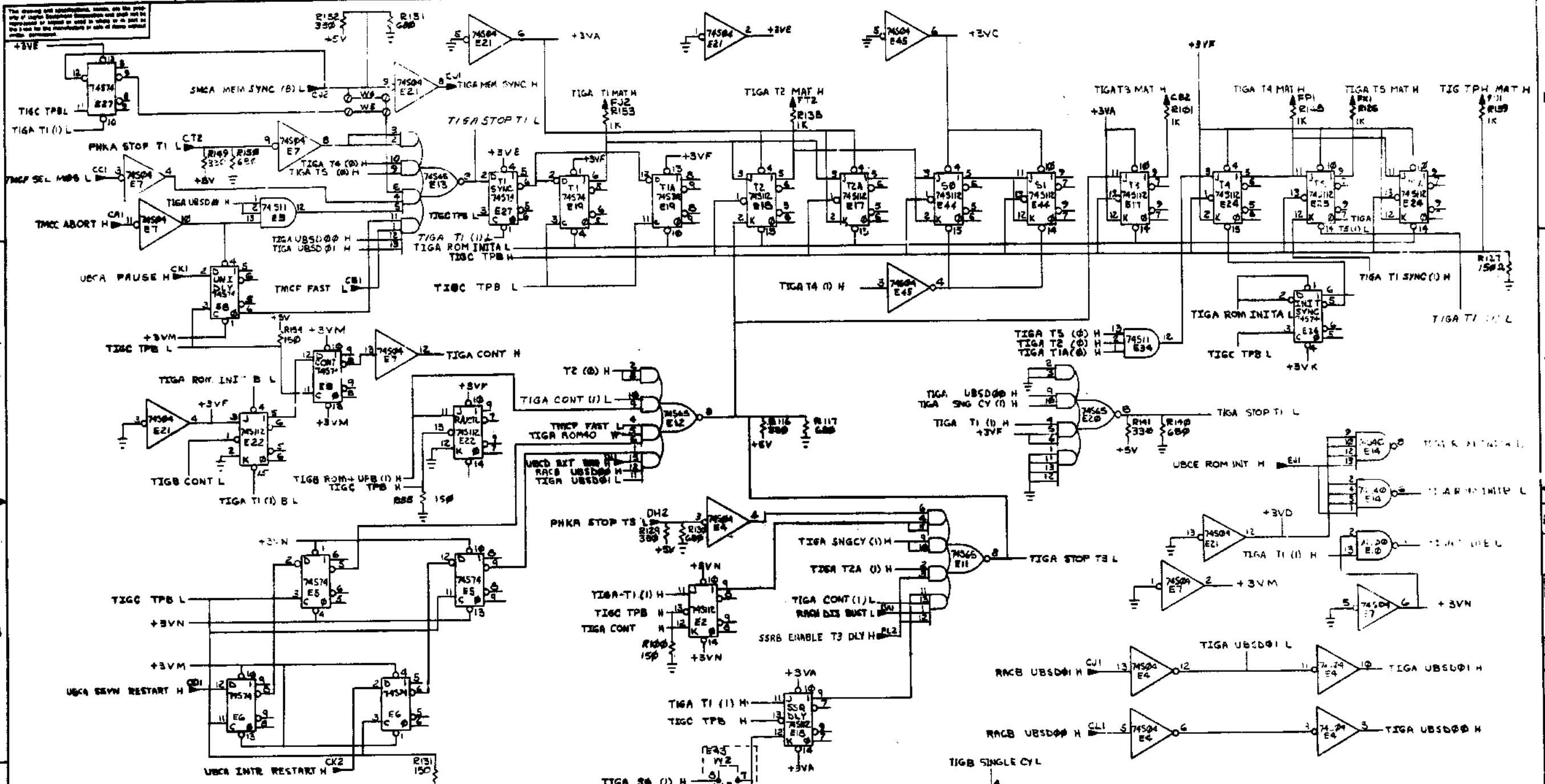
- NOTES:
- *1 MSYN IS NOT SET IF ODD ADDRESS, KTHC, PARITY OR STACK LIMIT HAS OCCURED. ERROR CONDITION RESTARTS TIMING GEN. AND ROM IS FORCED TO ZAP.00
 - *2 UNIBUS RELEASE = -(NPG + NPR + SACK + B BUSY)
 - *3 MSYN IS SET 150 NS AFTER CP BUSY OR WHENEVER SSYN IS NOT PRESENT AFTER 150 NS DESKEW.
 - *4 IF ADDR IS INTERNAL OR SOLID STATE MEMORY, UNIBUS CONTROL LOGIC IS CLEARED, DESKEW STOPPED, MSYN NOT ASSERTED.
 - *5 T3 STROBES UNIBUS DATA TO BUS BUFFER REGISTER EVERY T3. FOR DATI-DATIP THE BR CLOCK IS NEXT T1
 - *6 BRK IS DEPENDENT ON ROM TO LOAD BUS TO BR.
 - *7 T5 NS DESKEW FOR MSYN IS OBTAINED BY THE FACT THAT SSYN MUST GO THROUGH 2 RANKS OF SYNCHRONIZATION
 - *8 FOR BUS LONG PAUSE ADDRESS CONTROL IS DESKEWED FROM T3 TO T1. FOR BUS PAUSE THEY ARE HELD TO T4 OF THE NEXT ROM CYCLE.

REV	DATE	BY	CHKD

FIRST USED ON OPTION MODEL		QTY	DESCRIPTION	PART NO.	ITEM NO.
11/45					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES		DRN	DATE	PARTS LIST	
TOLERANCES		CHKD	DATE	digital EQUIPMENT CORPORATION	
DECIMALS	ANGLES	ENG	DATE	TITLE	
xxx - .005	+0° 30'	PHD	DATE	UNIBUS & CONSOLE CONTROL (UBCP)	
.xx - .00		RDG	DATE	SIZE CODE NUMBER	
.x - .1		APP	DATE	DCS M8119-0-1 B	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY Y				REV.	
MATERIAL	NEXT HIGHER ASSY.			SCALE	
				SHEET 2 OF 2	
FINISH				DIST.	

DCS M8119-0-1

187



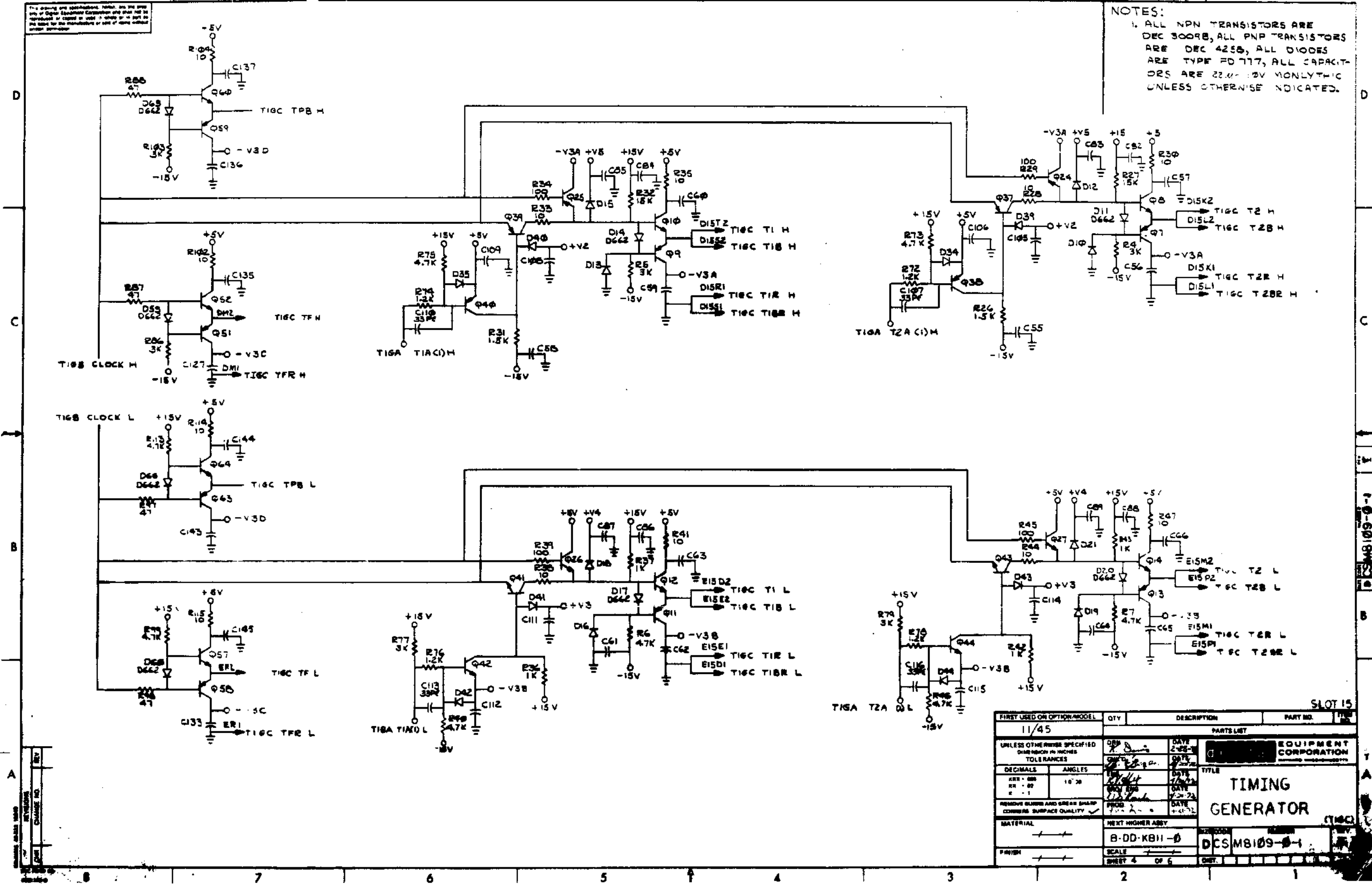
TIMING GENERATOR CONTROL		SLOT 5	
FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO.
11745			
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES			
TOLERANCES			
DECIMALS	ANGLES	DATE	
.XXX - .000	± 0.25	DATE	
.XX - .00	± 0.25	DATE	
.X - .0	± 0.25	DATE	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY			
MATERIAL			
NEXT NUMBER ASSY.			
SCALE			
SHEET			

REVISIONS
 CHANGE NO.
 DATE

DCS M8109-0-1

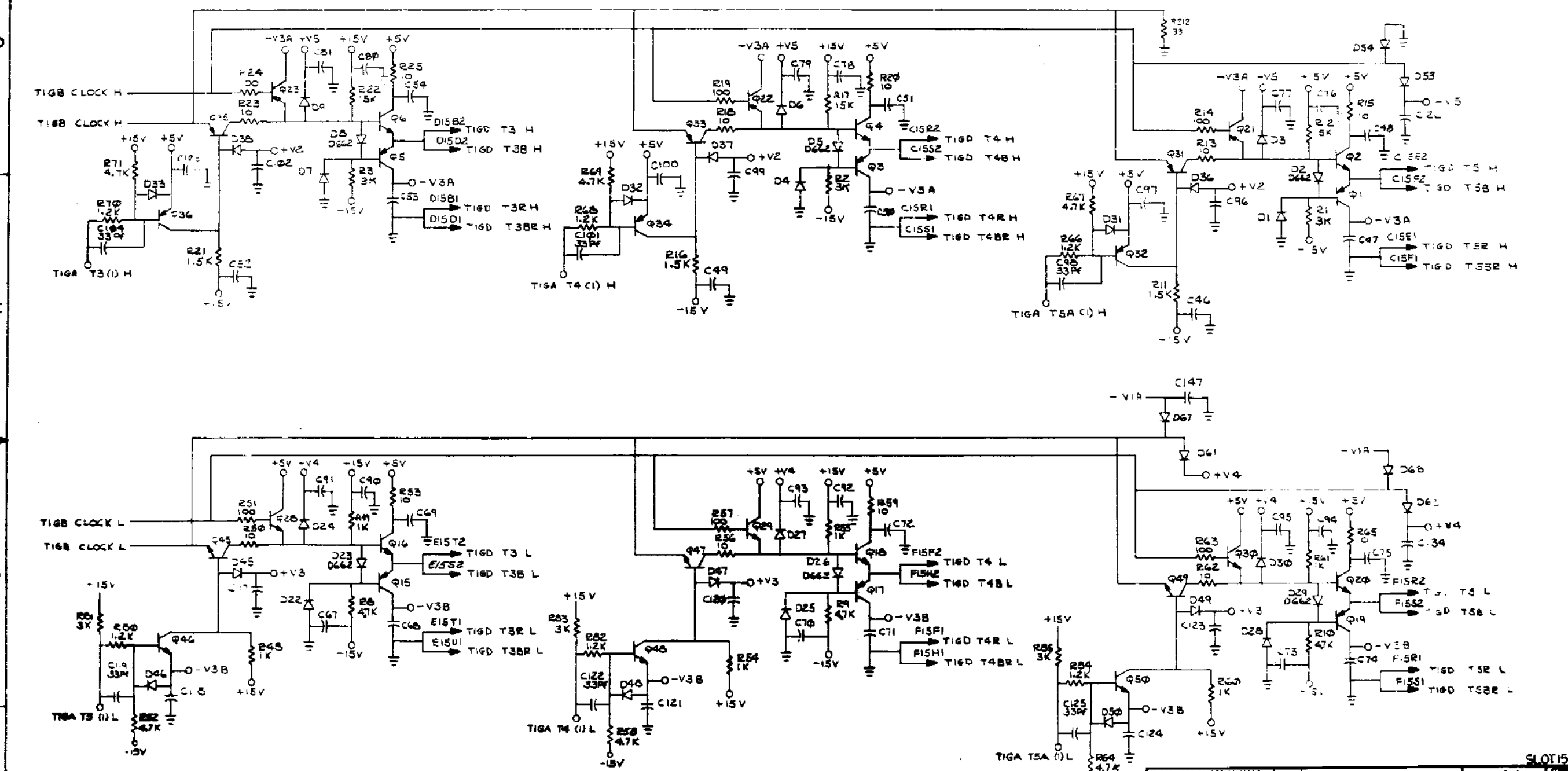
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NOTES:
 1. ALL NPN TRANSISTORS ARE DEC 300RB, ALL PNP TRANSISTORS ARE DEC 425B, ALL DIODES ARE TYPE FD 717, ALL CAPACITORS ARE 22.0V MONOLITHIC UNLESS OTHERWISE INDICATED.



FIRST USED OR OPTION MODEL	QTY	DESCRIPTION	PART NO.	FILE NO.
11/45				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES	DATE	DATE	EQUIPMENT CORPORATION	
TOLERANCES	1/8"	1/16"	TITLE TIMING GENERATOR	
DECIMALS	1/16"	1/32"		
ANGLES	10°	5°		
FINISH	1/32"	1/64"		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	DATE	DATE	DCS M8109-0-1	
MATERIAL	NEXT HIGHER ASSY		SHEET 4 OF 6	
FINISH	B-DD-KB11-0	SCALE	DIST.	

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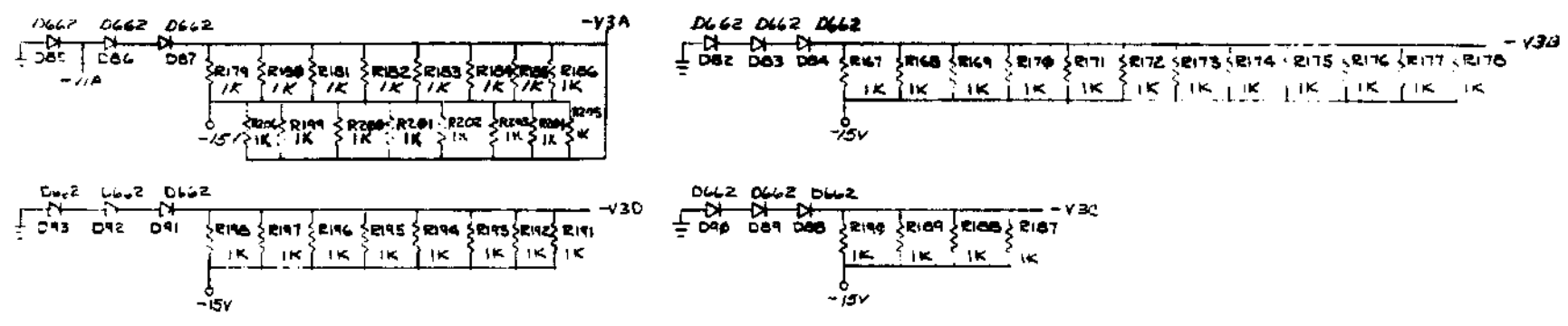
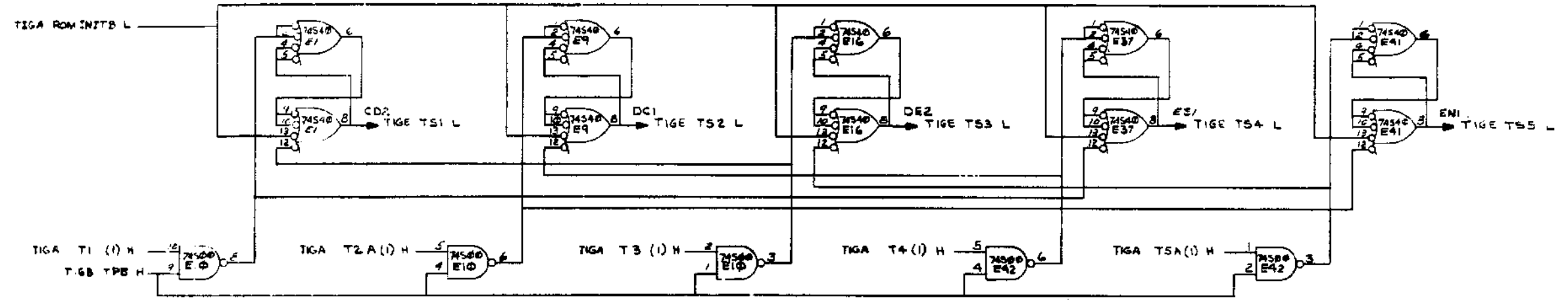


NOTE: ALL NPN TRANSISTORS ARE DEC 3001B, ALL PNP TRANSISTORS ARE DEC 425B, ALL DIODES ARE TYPE PD17, ALL CAPACITORS ARE .22 μF HIGHLY TNC UNLESS OTHERWISE INDICATED.

FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO
11/45			
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DATE 3-1-72	EQUIPMENT CORPORATION CORPORATION	
DECIMALS ANGLES	DATE 4/17/72		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	DATE 7/1/72	TIMING GENERATOR	
MATERIAL	DATE 4-21-72		
FINISH	DATE	DCS M8109-0-1	

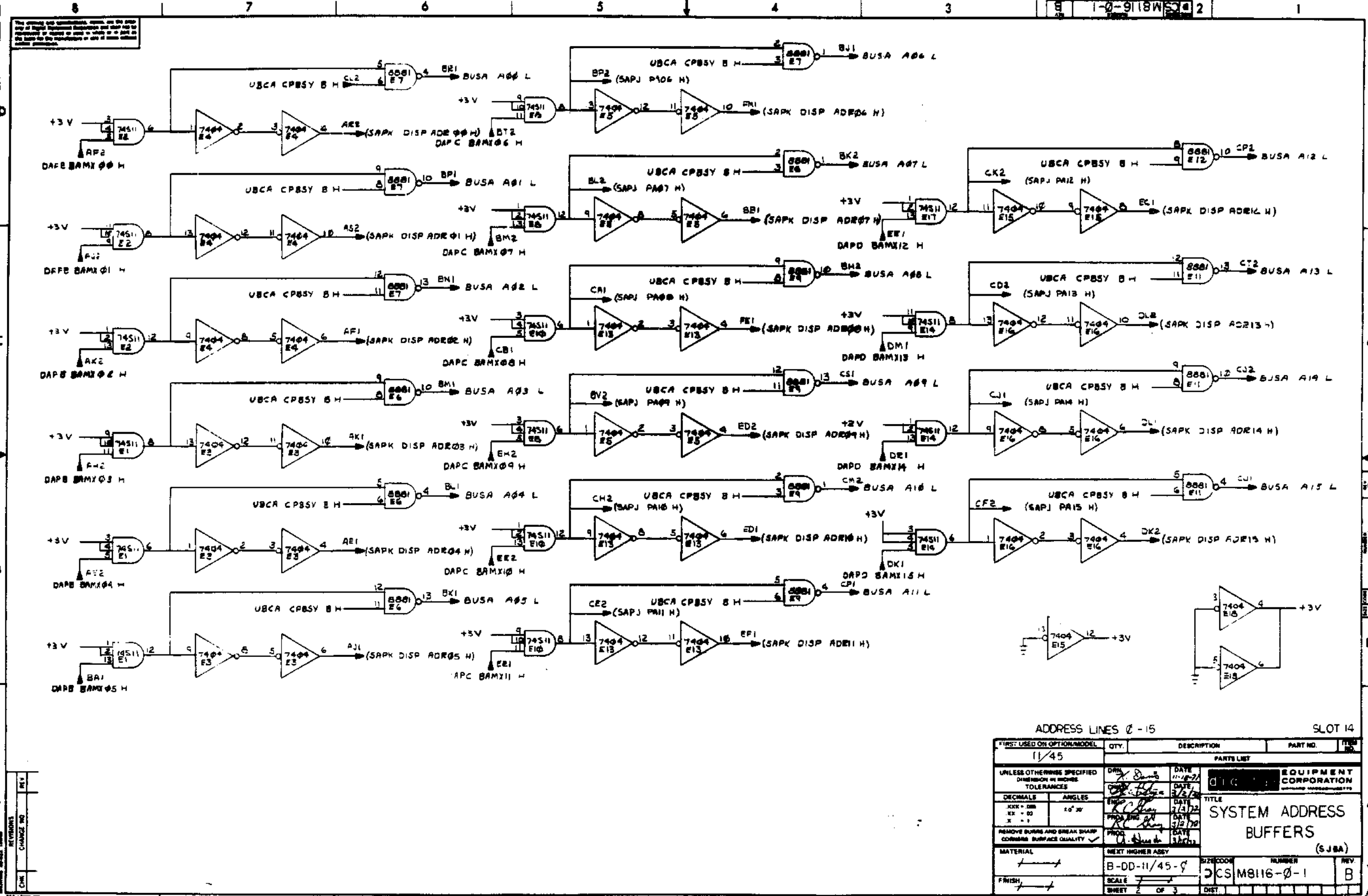
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1-0-6010W S10 2



REV	NO	DATE

TIMING STATE DRIVERS		SLOT 15	
FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO.
11/45			
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES			
DECIMALS	ANGLES	DATE	
XX - .005	1/2° 30'	8-25-74	
XX - .01		DATE	
XX - .02		DATE	
XX - .05		DATE	
XX - .10		DATE	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		DATE	
MATERIAL	NEXT NUMBER ASSY.	TITLE	
	B-00-K811-0	TIMING GENERATOR (1145)	
FINISH	SCALE	DESIGNER	NUMBER
		DCS	MM98-0-1
	SHEET 6 OF 6	DRY	



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1-0-918W5-2

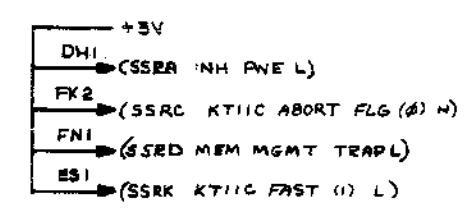
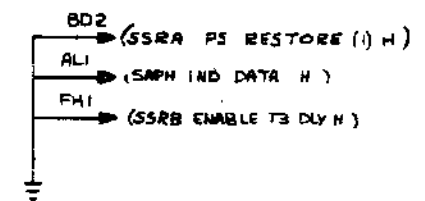
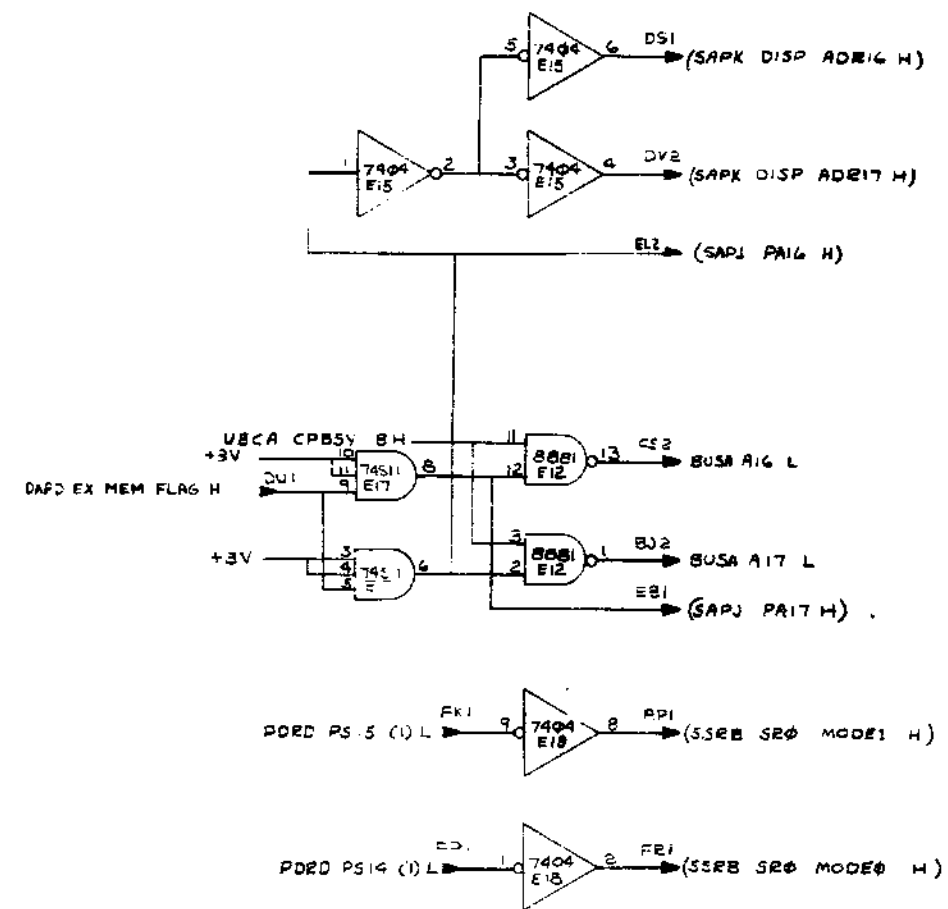
ADDRESS LINES 0 - 15

SLOT 14

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/45				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DATE 3/2/72	 EQUIPMENT CORPORATION 		
DECIMALS	DATE 3/2/72			
ANGLES	DATE 3/2/72	TITLE SYSTEM ADDRESS BUFFERS (SJA)		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	DATE 3/2/72			
MATERIAL	NEXT HIGHER ASSY	SIZE CODE	NUMBER	REV
FINISH	B-DD-11/45-9	SCALE	DCS M8116-0-1	B
	SHEET 2 OF 3	DIST		

REV
CHANGE NO
CHK

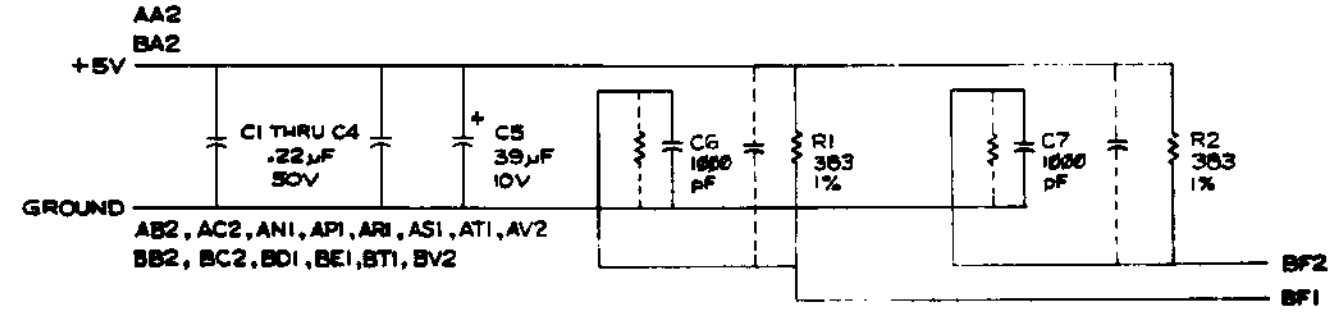
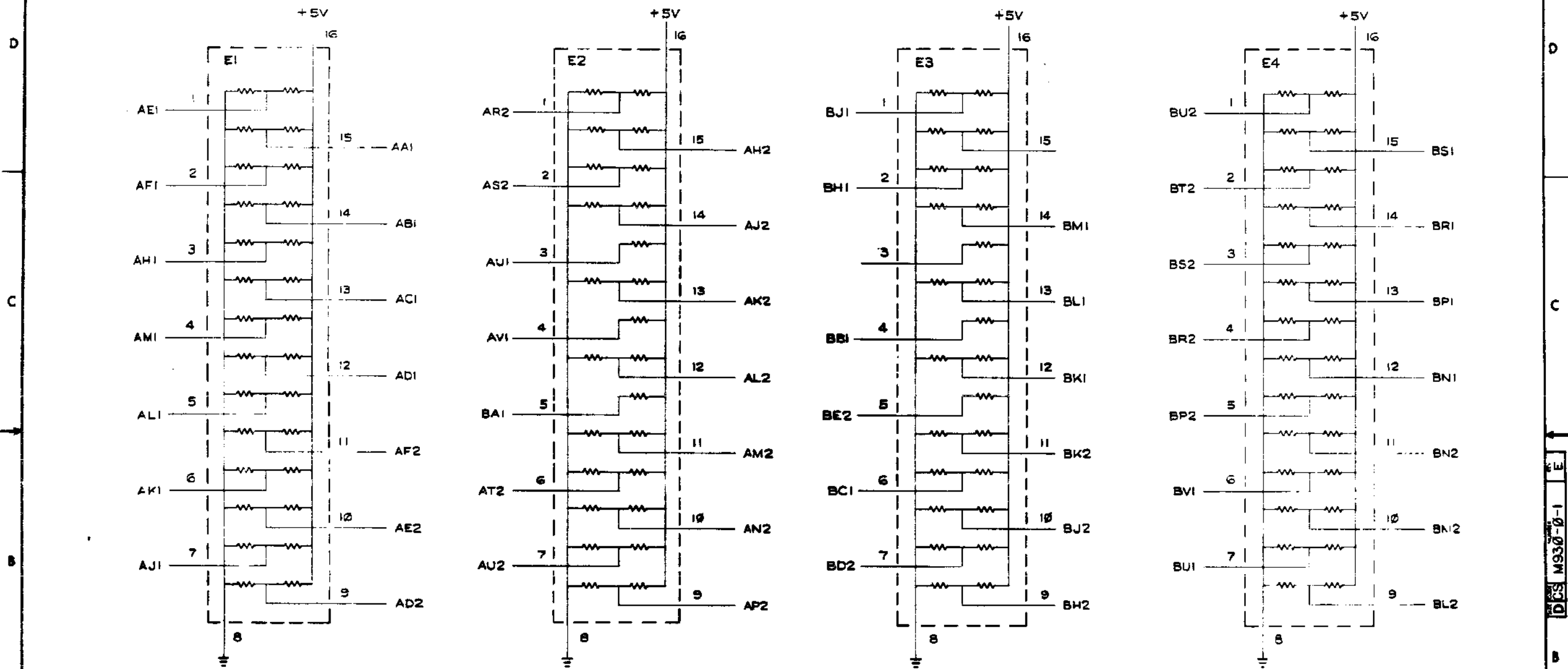
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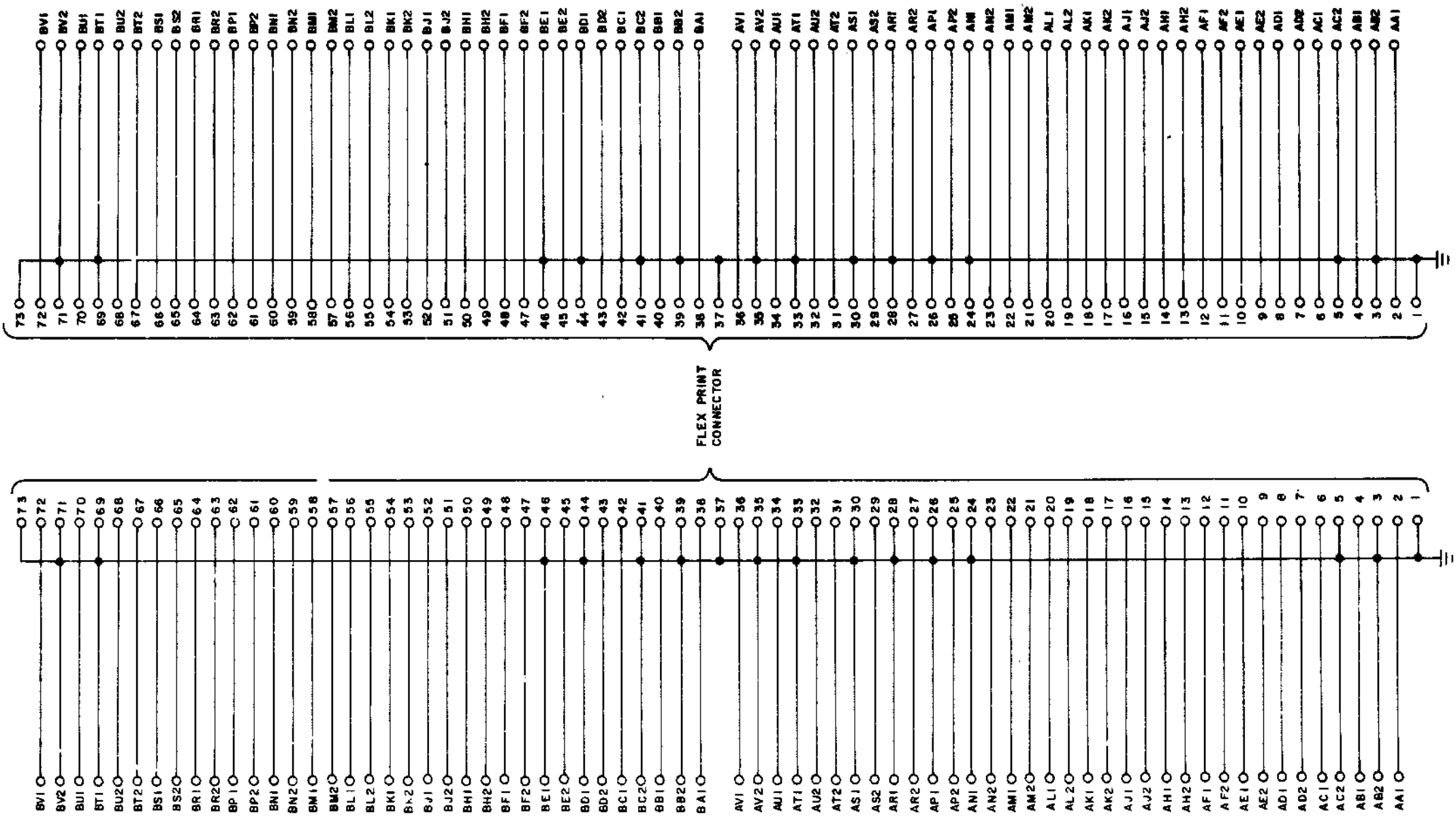
MISC. SIGNALS AND ADRS. LINES 16 & 17 SLOT 14

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/45				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES	DRN <i>R. C. King</i>	DATE 1/16/71	 DIGITAL EQUIPMENT CORPORATION TITLE SYSTEM ADDRESS BUFFERS (SJB0)	
DECIMALS	CHKD <i>R. C. King</i>	DATE 3/2/72		
ANGLES	ENG <i>R. C. King</i>	DATE 3/2/72		
XXX - 008 .XX - 02 X - 1	PROG <i>R. C. King</i>	DATE 3/2/72		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROG <i>R. C. King</i>	DATE 3/2/72		
MATERIAL	NEXT HIGHER ASSY.			
	B-DD-11/45-0	SIZE CODE	NUMBER	REV
FINISH	SCALE	DCS	M8116-0-1	B
	SHEET 3 OF 3	QST		

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FLEX PRINT CONNECTOR

REVISIONS

REV	CHG NO	REV
1	00001	A
2	00002	B
3	00004	C

DRN	DATE
CHK'D	DATE
ENG	DATE
PROG	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EMA	DEC	EMA

DIGITAL
EQUIPMENT CORPORATION
MAYFLELD, MASSACHUSETTS

TITLE			
INTERNAL BUS CONNECTOR			
M920			
SIZE	CODE	NUMBER	REV
C	CS	M920-0-1	C
PRINTED CIRCUIT REV.			

REV. C
CS M920-0-1

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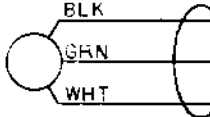
NOTE

1. FOR 11/45 SYSTEMS BUILT WITH 860 POWER CONTROLS, REFER TO D-10-11/45-0-1 REV. A DRAWING.

TABLE I
POWER SYSTEM - MAJOR ECO SUMMARY
ECO# D-10-11/45-0-1 DESCRIPTION
REV CHANGES (PROBLEM-SOLUTION)

FROM REV	TO REV	DESCRIPTION
11/45-00031 A	B	REPLACED OBSOLETE 860 POWER CONTROL WITH 861 POWER CONTROL (D-10-11/45-0-1 REV. A DOCUMENTS MACHINES WITH 860 POWER CONTROL).
11/45-00054 C	D	POWER DISTRIBUTION REDESIGNED TO ACCOMMODATE H754 REGULATOR (+20V±5V) FOR 16K MEMORY. MAIN POWER HARNESS CHANGED FROM 7008784 TO 7009540. SYSTEM UNIT POWER DISTRIBUTION MOVED FROM BACK OF CPU BOX TO TOP REAR OF CPU BOX. SYSTEM UNIT CONNECTORS CHANGED FROM FLAT 8-PIN CONNECTOR TO 15-PIN AND 6-PIN RECTANGULAR CONNECTOR-PAIR. MACHINES WITH THIS ECO HAVE SERIAL NO'S ≥ 2000.
11/45-00057 D	E	7009540 HARNESS REVISED TO DISTRIBUTE +5V TO SYSTEM UNITS WHEN H754 REGULATOR IS INSTALLED FOR 16K MEMORY. P45/J45 (FLAT 4-PIN CONNECTOR) ADDED TO HARNESS NEAR P7. AFFECTS ONLY MACHINES WITH SN ≥ 2000.
11/45-00160 E	F	+5V FROM SLOT D H744 REWIRED TO LOWER VOLTAGE DROPS TO SYSTEM UNITS.
11/45-00161 F	H	CPU HARNESS MODIFIED TO ACCOMMODATE SECOND H746 MOS REGULATOR. ADD P30 TO 700954 HARNESS NEAR P39 MACHINE WITH SN ≥ 2000. IF SN < 2000 P30 OF THE 700954 HARNESS IS REWIRED TO DISTRIBUTE MOS VOLTAGE FROM AN H746 IN SLOT L OF THE LOWER H744. 861-A ECO MUST BE INSTALLED AT SAME TIME.

90-135V/47-63HZ (2-PHASE 120° OR 180° DISPLACED) OR 180-270V/47-63HZ SINGLE PHASE



861-A: NEMA L14-20P CONNECTOR
861-B: NEMA L6-20P CONNECTOR

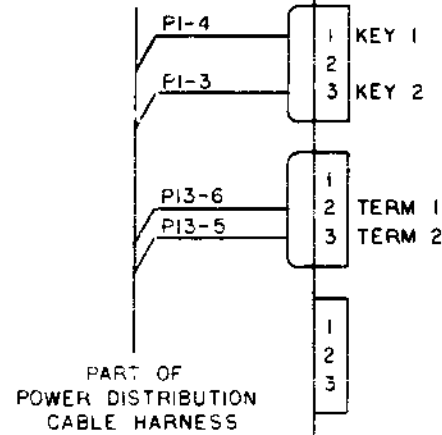
861 POWER CONTROL

REFER TO CIRCUIT SCHEMATIC

D-CS-861-A-1 OR D-CS-861-B-1

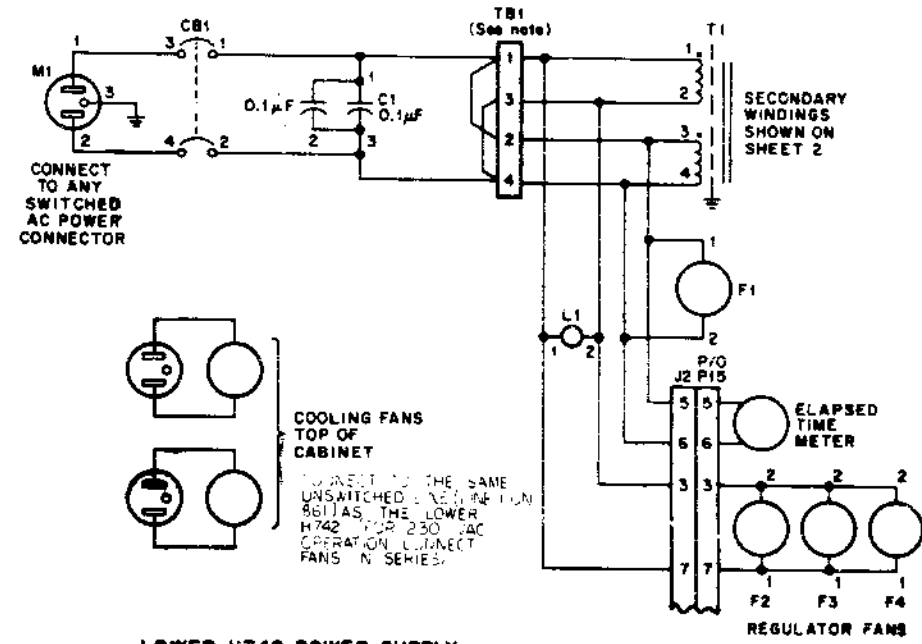
SWITCHED AND UNSWITCHED AC OUTLETS ARE INDICATED BY PANEL MARKINGS.

861-A: 90-135V/47-63HZ 2-PHASE (120° OR 180° DISPLACED)
861-B: 230V/60HZ

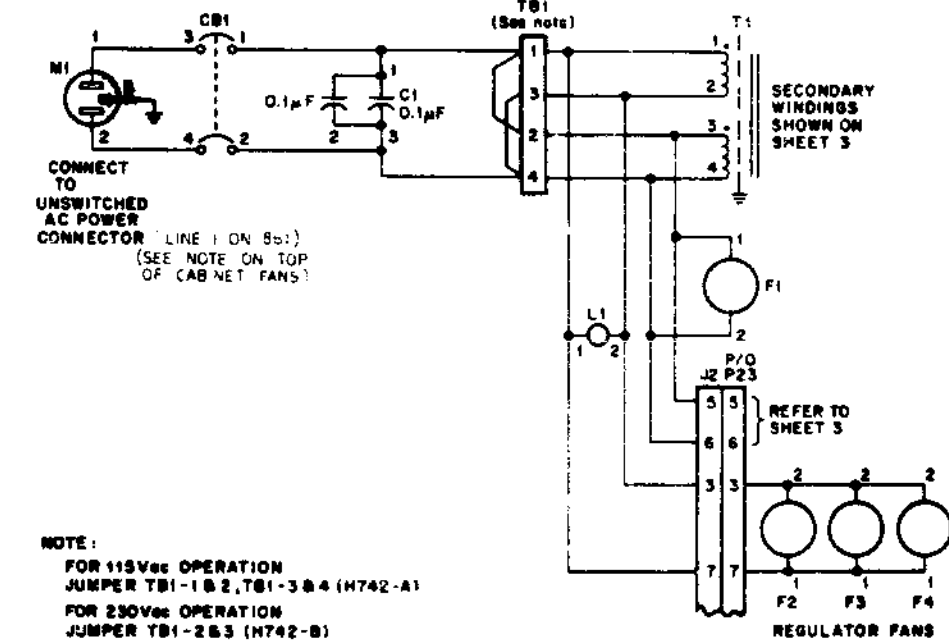


PART OF POWER DISTRIBUTION CABLE HARNESS

UPPER H742 POWER SUPPLY
REFER TO D-CS-H742-0-1



LOWER H742 POWER SUPPLY



NOTE:
FOR 115Vdc OPERATION
JUMPER TB1-1 & 2, TB1-3 & 4 (H742-A)
FOR 230Vdc OPERATION
JUMPER TB1-2 & 3 (H742-B)

TABLE 2

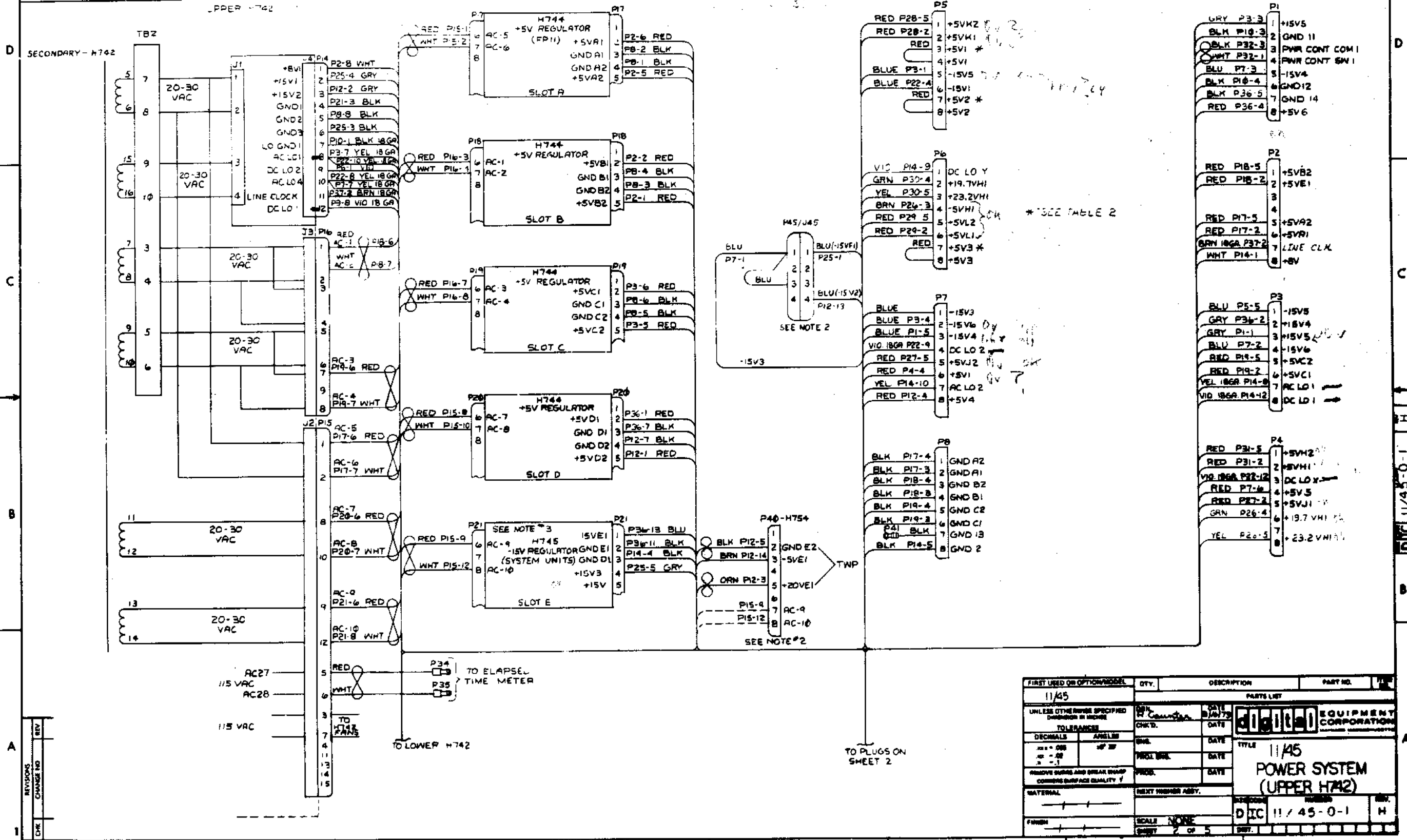
MEMORY CONFIGURATION	REGULATOR SLOTS				JUMPERS		
	H	J	K	L	+5V2 (+5V1) (+5-75.9)	+5V1 (+5-35.4)	+5V3 (+5-7.8)
BIPOLAR ONLY							
16K	X	X	X	X	IN	IN	IN
4K	X	X	X	X	IN	IN	IN
2K	X	X	X	X	IN	IN	IN
1K	X	X	X	X	IN	IN	IN
MIXED MODE BIPOLAR							
4-16K MOS, 2-4K BIPOLAR	X	X	X	X	IN	X	IN
4-16K MOS, 2-4K BIPOLAR	X	X	X	X	IN	X	IN

FIRST USED ON OPTION MODEL	QTY	DESCRIPTION	PART NO	ITEM NO
11/45				
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES				
DECIMALS	ANGLES	PARTS LIST		
±.005	±.030	DATE	DIGITAL EQUIPMENT CORPORATION	
REMOVE BURRS AND BREAK SHARP CORNERS. SURFACE QUALITY				
MATERIAL				
NEXT HIGHER ASSY				
FINISH				
SCALE		SIZE CODE		
1/8" = 1"		H 100-11/45		
SHEET 1 OF 3		D-10-11/45-0-1		

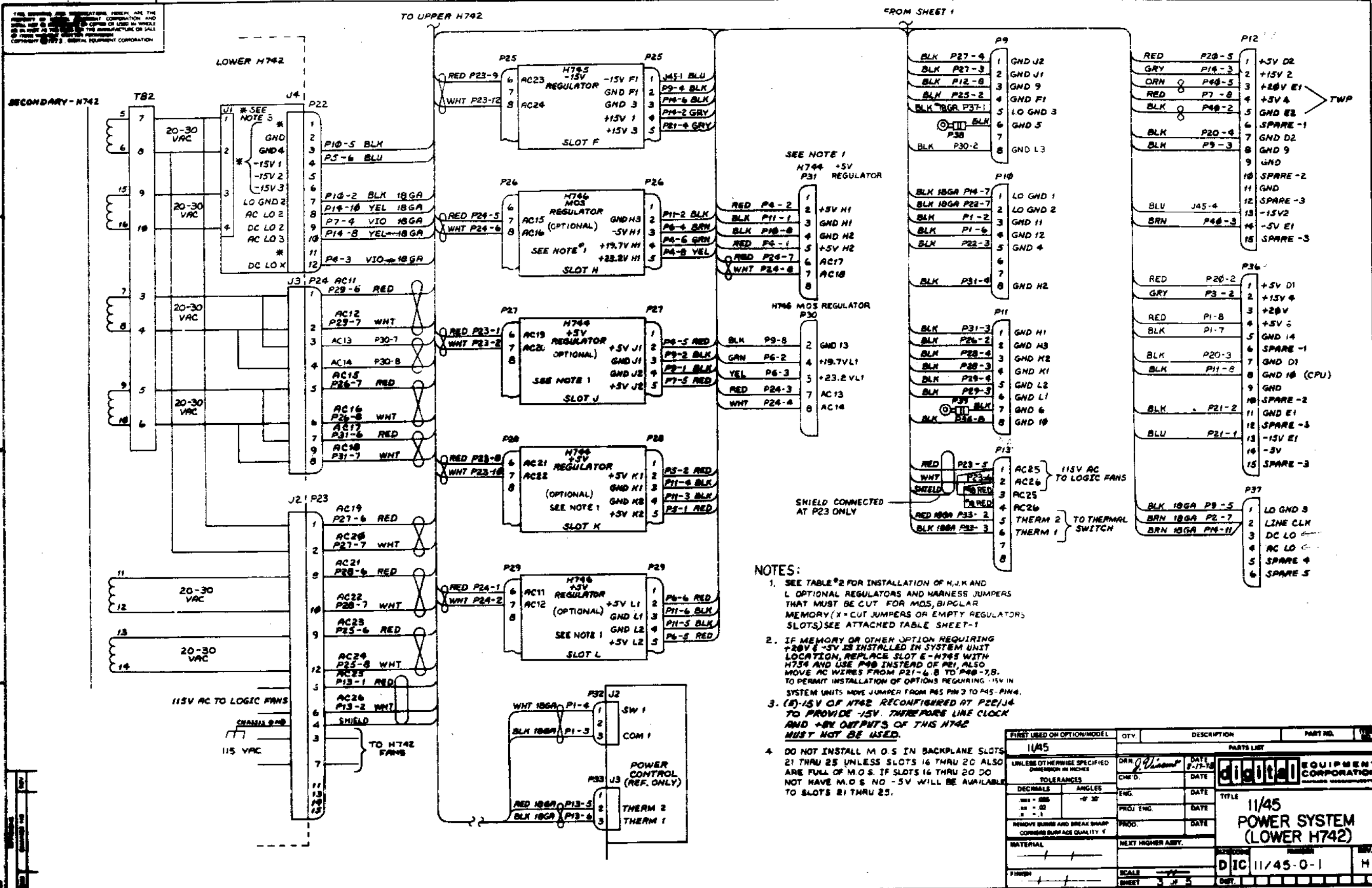
REV	DATE	BY	CHKD	APP'D	DESCRIPTION
A	11/17/74	V. BOVEN			INITIAL DESIGN
B	11/22/74	V. BOVEN			REVISED FOR 16K MEMORY
C	11/22/74	V. BOVEN			REVISED FOR 16K MEMORY
D	11/22/74	V. BOVEN			REVISED FOR 16K MEMORY
E	11/22/74	V. BOVEN			REVISED FOR 16K MEMORY
F	11/22/74	V. BOVEN			REVISED FOR 16K MEMORY
G	11/22/74	V. BOVEN			REVISED FOR 16K MEMORY
H	11/22/74	V. BOVEN			REVISED FOR 16K MEMORY

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11/45-01-1



DUC 11/45-0-1



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NOTES:

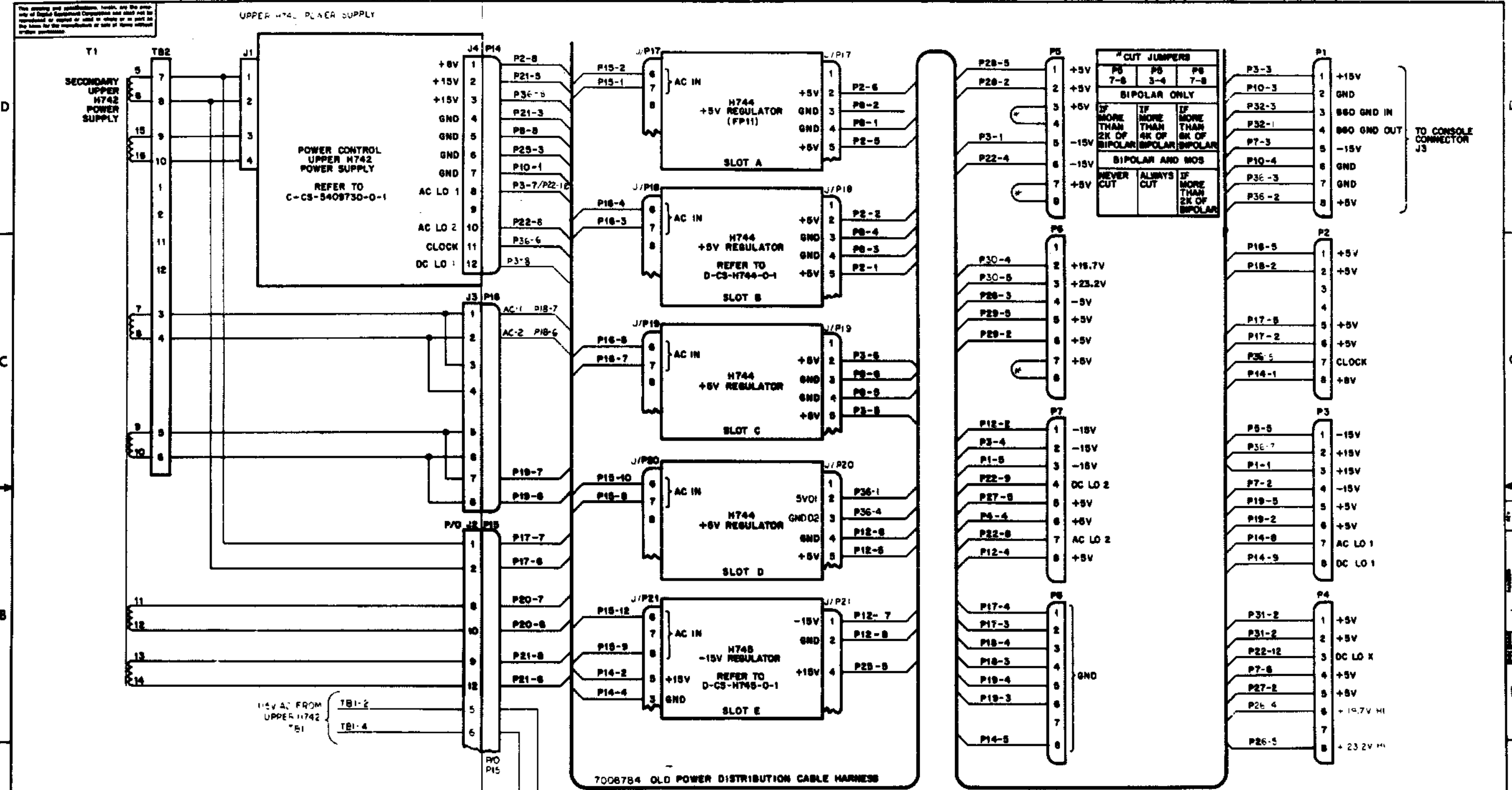
- SEE TABLE #2 FOR INSTALLATION OF M, J, K AND L OPTIONAL REGULATORS AND HARNESS JUMPERS THAT MUST BE CUT FOR MOS, BIPOLAR MEMORY (X = CUT JUMPERS OR EMPTY REGULATORS SLOTS) SEE ATTACHED TABLE SHEET-1
- IF MEMORY OR OTHER OPTION REQUIRING +20V & -5V IS INSTALLED IN SYSTEM UNIT LOCATION, REPLACE SLOT E-H745 WITH H744 AND USE P40 INSTEAD OF P21, ALSO MOVE AC WIRES FROM P21-6, 8 TO P40-7, 8. TO PERMIT INSTALLATION OF OPTIONS REQUIRING -15V IN SYSTEM UNITS MOVE JUMPER FROM P45 PIN 3 TO P45-PIN 4.
- (B)-15V OF H742 RECONFIGURED AT P22/J4 TO PROVIDE -15V. THEREFORE LINE CLOCK AND +5V OUTPUTS OF THIS H742 MUST NOT BE USED.
- DO NOT INSTALL M.O.S. IN BACKPLANE SLOTS 21 THRU 25 UNLESS SLOTS 16 THRU 20 ALSO ARE FULL OF M.O.S. IF SLOTS 16 THRU 20 DO NOT HAVE M.O.S. NO -5V WILL BE AVAILABLE TO SLOTS 21 THRU 25.

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.
11/45			
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES			
TOLERANCES			
DECIMALS	ANGLES		
.015 - .030	+0° 30'		
.031 - .062			
.063 - .125			
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY 4			
MATERIAL		NEXT HIGHER ASBY.	
FINISH		SCALE	
		SHEET 3 OF 5	

PARTS LIST	
QTY.	DESCRIPTION
1	AC25
2	AC26
3	AC25
4	AC26
5	THERM 2
6	THERM 1

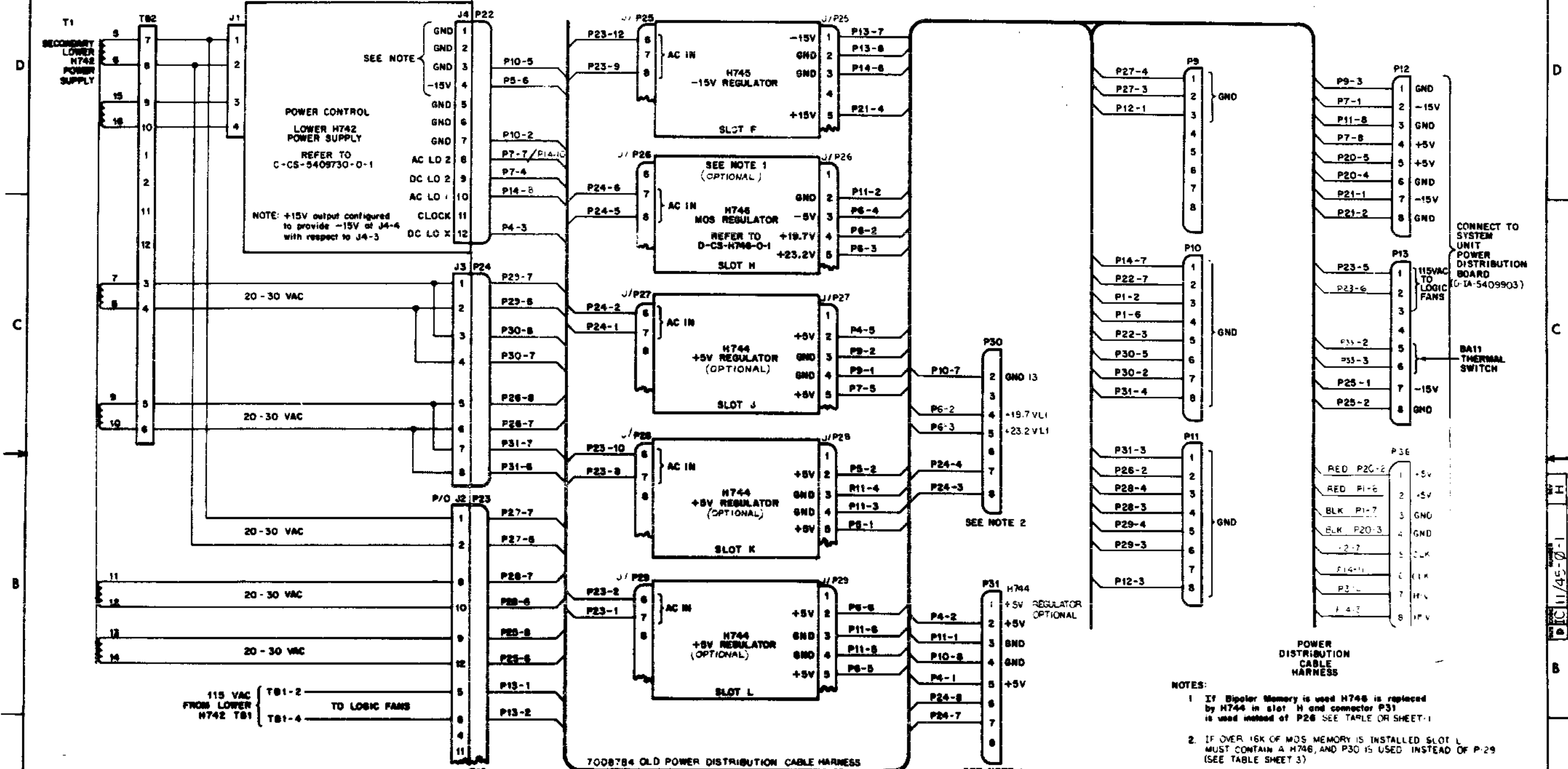
TITLE		11/45	
POWER SYSTEM		(LOWER H742)	
DRAWN		DATE	
CHK'D.		DATE	
ENG.		DATE	
PROJ. ENG.		DATE	
PROD.		DATE	
MATERIAL		NEXT HIGHER ASBY.	
FINISH		SCALE	
		SHEET 3 OF 5	

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PART NO.	QTY.	DESCRIPTION	PART NO.
11/95			
PARTS LIST			
EQUIPMENT CORPORATION			
TITLE: OLD POWER SYSTEMS CONFIGURATION			
DRAWING NO: B-DD-11/95-0			
REV: H			
SHEET 4 OF 5			

LOWER H742 POWER SUPPLY



SEE NOTE
 POWER CONTROL
 LOWER H742
 POWER SUPPLY
 REFER TO
 C-CS-5409730-0-1
 NOTE: +15V output configured
 to provide -15V at J4-4
 with respect to J4-3

H745
 -15V REGULATOR
 SLOT F

SEE NOTE 1
 (OPTIONAL)
 H745
 MOS REGULATOR
 REFER TO
 D-CS-H746-0-1
 SLOT H

H744
 +5V REGULATOR
 (OPTIONAL)
 SLOT J

H744
 +5V REGULATOR
 (OPTIONAL)
 SLOT K

H744
 +5V REGULATOR
 (OPTIONAL)
 SLOT L

7008784 OLD POWER DISTRIBUTION CABLE HARNESS

- NOTES:
1. If Bipolar Memory is used H746 is replaced by H744 in slot H and connector P31 is used instead of P26. SEE TABLE OR SHEET-1
 2. IF OVER 16K OF MOS MEMORY IS INSTALLED SLOT L MUST CONTAIN A H746, AND P30 IS USED INSTEAD OF P-29 (SEE TABLE SHEET 3)

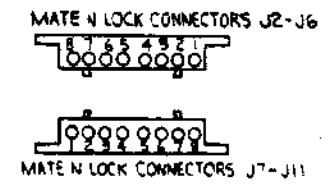
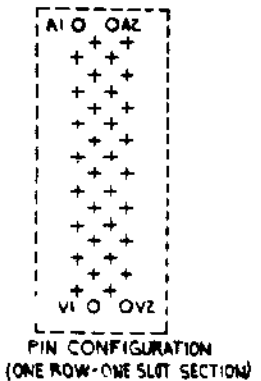
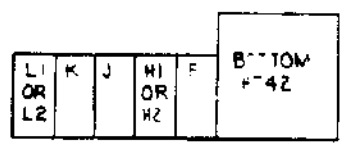
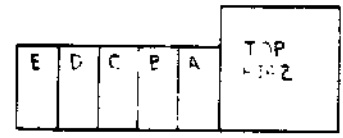
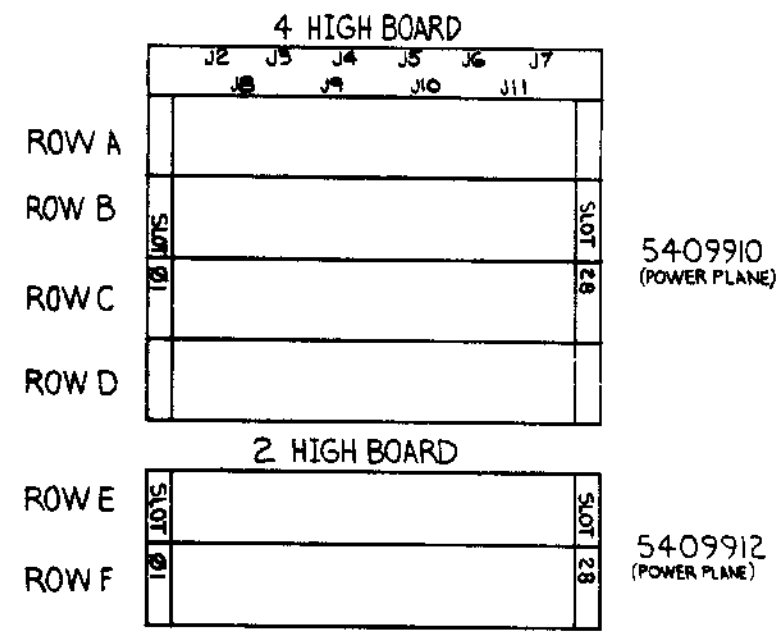
THIS SHEET APPLIES TO MACHINES
 WITH SERIAL NUMBERS LESS THAN 2000

FIRST USED OR OPTIONAL MODEL	QTY	DESCRIPTION	PART NO.
1145		PARTS LIST	
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES		DATE	EQUIPMENT CORPORATION
DECIMALS	FRACTIONS	DATE	TITLE
.XXX - .00	XX - 00	DATE	OLD POWER SYSTEMS CONFIGURATION
.XX - .00	X - 00	DATE	
.X - .00	X - 00	DATE	
REMOVE BURRS AND BREAK SWAMP CORROSE SURFACE QUALITY		DATE	
MATERIAL	NEXT NUMBER ASSY.	DATE	
FRONT	B.D.D-11/95-0	DATE	
	SCALE	DATE	
	SHEET 5 OF 5	DATE	

VOLTAGE	REGULATOR LOCATION	PIN	ROW	SLOT	MATE N LOCK CONNECTION	WIRE WRAP PIN
+5V	A	AZ, V1	A-F	2-5	J2-5,6	
	B	AZ		1,6-9	J2-3,4	
	B	V1		6-9	J2-3,4	
	C	AZ, V1		10-15	J3-5,6	
	J			16-18	J4-6,7	
	H2			19,20	J4-1,2, J5-8	
	K			21-23	J5-1,2,3	
	L	AZ, V1	A-F	24,25	J6-5,6,7	
	J	AZ	A	16	J5-4,7, J6-8	
	D		A, B	26	J7-8	
	D		C, F	26,28	J7-8	
+5V	J	AZ	A, B	27,28	J7-5,6	
+8V	TOP H742	B1	F	1	J2-8	SP-1
LTCL	TOP H742	R1	C	1	J2-7	
DCLOY	TOP H742				J6-1	SPIO
DCLOI	TOP H742	J	C	12	J3-8	
ATLOI	TOP H742	S	C	12	J3-7	
-15V	E	B2	E	2	J3-4	SP-3
+15V	TOP H742	A1	E	15	J3-2,3	SP-4
-15V	BOT. H742	B2	E	16	J3-1	SP-5
+3.2VLI	L2	V2	A, C, E	22-25	J6-3	
+13.7VLI	L2	U2	A, C, E	22-25	J6-2	
DCLOX	BOT. H742	U2	B	16	J4-3	
-15V	BOT. H742	B2	E	21	J5-5,6	SP-8
-5V		C1	F	17-20, 22-25	J6-4	SP-9
+23VH1	H1	V2	A, C, E	17-20	J4-8	SP-6
+19VH1	H1	U2	A, C, E	17-20	J4-6	SP-7
ACLOZ	EXT. H742	F1	B	28	J7-7	
DCLOZ	BOT. H742	F1	E	28	J7-4	

	PIN	ROW	SLOT	MATE N LOCK CONNECTION
GROUND	C2, N2, T1	A-F	2-25	J8-1, 8
	C2, T1	A-F	1, 26-28	J9-1, 8
	B2, V2	A, B		J10-1, 8
	N1, P1, R1, S1	A		J11-1, 8
	D1, E1	B	1, 26-28	

NOTES:
 1. THIS LISTING IS FURNISHED TO SHOW COMBINATIONS OF MATE N LOCK CONNECTORS (J#) AND WIREWRAP PINS THAT ARE TO BE ETCHED TOGETHER. VOLTAGES WILL BE WIREWRAPPED BETWEEN 5409910 AND 5409912.
 2. ALL MATE N LOCK CONNECTORS AND PINS LISTED ARE CONNECTED TOGETHER BY THE GROUND PLANE (5409910-4 HIGH BOARD). WIREWRAP CONNECTIONS WILL BE MADE BETWEEN DXX1 (5409910) AND EXYC2 (5409912)-XX* SLOT NUMBERS 21-28.



REV	A
DATE	11/45-0-2
BY	V. BOWEN
CHKD	W. BOWEN

FIRST USED OR OPTION MODEL	QTY.	DESCRIPTION	PART NO.
PDP11/45			
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES	DATE	DATE	
TOLERANCES	CHK'D	DATE	
DECIMALS			
ANGLES			
SIZE - DR			
FINISH			
REMOVE BURRS AND BREAK SHARP EDGES SURFACE QUALITY			
MATERIAL	NEXT NUMBER ASSY.		
FINISH			
SCALE	B-DD-11/45-0	DIC	11/45-0-2 A
SHEET	1 OF 1		

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DIGITAL EQUIPMENT CORPORATION

REV. C
NUMBER 7009540-0-2
SIZE CODE K WL

4 3 2 1

B

B

A

A

FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/45				
PARTS LIST				
DRN. <i>B. B. Lopez</i>	DATE 10-5-73	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS TITLE WIRE LIST		
CHK'D. <i>M. Vargas</i>	DATE 11/5/73			
ENG. <i>Varell Boen</i>	DATE 11/5/73			
PROJ. ENG. <i>Varell Boen</i>	DATE 11/5/73			
PROD. <i>Chuck H. ...</i>	DATE 11-5-73			
NEXT HIGHER ASSEMBLY				
J-1A-7009540-0-0		SIZE CODE K WL	NUMBER 7009540-0-2	REV. C
SCALE	+			
SHEET	1	OF	—	

REVISIONS	CHANGE NO.	REV.
JK	11/45-00057	A
	<i>(4. 11/45/73) 3-21-74</i>	
	V. BOAEN	
	<i>Varell Boen</i>	
JK	11/45-00060	B
	<i>(11/45/73) 3-6-73</i>	
	V. BOAEN	
	<i>Varell Boen</i>	
JK	11/45-00061	C
	<i>(11/45/73) 1-3-75</i>	
	V. BOAEN	
	<i>Varell Boen</i>	

4 3 2 1

DEC FORM NO
DRB 109

1145PH, WNL NAME SORT	URL18D, SAV(18)	15-MAR-72	24-MAR-75	1515	PAGE 1
RUN NAME	A/P PIN LOCATION	BAY @ DRAW RV RG Y X Z LEVEL	REMARKS	NEW RUN INDICATOR	RUN NUM
SEE NOTE1 SEE NOTE1	NOTE NOTE		ALL TIMES R14 AUG UNLESS OTHERWISE NOTED	X	1 1
+15V1 +15V1	P14-2 P25-4 42.25"			X	2 2
+15V2 +15V2	P12-2 P14-3 56.5"			X	3 3
+15V3 +15V3	P21-4 P25-5 51"			X	4 4
+15V4 +15V4	P3-2 P36-2 31.5"			X	5 5
+15V5 +15V5	P1-6 P3-1 16"			X	6 6
+19.7VH1 +19.7VH1	P26-4 P4-6 46"			X	7 7
+19.7VLI +19.7VLI	P33-4 P6-2 61"			X	8 8
+20VE1 +20VE1	P12-3 P41-5 62.5"		OR 4-BLK TRIP (GND L2)	X	9 9
+23.2VH1 +23.2VH1	P26-4 P4-5 46"			X	10 10
+23.2VLI +23.2VLI	P33-5 P6-3 61"			X	11 11
+5J1 +5J1	P27-2 P4-5 60"			X	12 12
+5V1 +5V1	P5-3 P5-4 20.25"			X	13 13
+5V2 +5V2	P5-7 P5-6 20.25"			X	14 14
+5V3 +5V3	P6-7 P6-6 20.25"			X	15 15
+5V4 +5V4	P12-4 P7-6 20.5"			X	16 16
+5V5 +5V5	P4-4 P7-6 17"			X	17 17
+5V6 +5V6	P1-6 P36-4 38"			X	18 18

1145PH, WNL NAME SORT	URL18D, SAV(18)	15-MAR-72	24-MAR-75	1515	PAGE 2
RUN NAME	A/P PIN LOCATION	BAY @ DRAW RV RG Y X Z LEVEL	REMARKS	NEW RUN INDICATOR	RUN NUM
+5VA1 +5VA1	P17-2 P2-6 65"			X	19 19
+5VA2 +5VA2	P17-5 P2-5 65.5"			X	20 20
+5VA2 +5VA2	P15-5 P2-1 69"			X	21 21
+5VC1 +5VC1	P14-2 P3-6 71"			X	22 22
+5VC2 +5VC2	P14-5 P3-5 71"			X	23 23
+5VD1 +5VD1	P20-2 P36-1 61"			X	24 24
+5VD2 +5VD2	P12-1 P211-5 59.5"			X	25 25
+5VE1 +5VE1	P18-2 P2-2 67"			X	26 26
+5V-1 +5V-1	P31-2 P4-2 77"			X	27 27
+5V-2 +5V-2	P31-5 P4-1 77"			X	28 28
+5VJ2 +5VJ2	P27-5 P7-5 72.5"			X	29 29
+5VK1 +5VK1	P2A-2 P5-2 81.25"			X	30 30
+5VK2 +5VK2	P2A-5 P5-1 81"			X	31 31
+5VL1 +5VL1	P24-2 P6-6 81"			X	32 32
+5VL2 +5VL2	P24-5 P6-5 81"			X	33 33
+8V +8V	P14-1 P2-7 71"			X	34 34
-15V1 -15V1	P22-4 P5-6 76.5"			X	35 35
-15V2 -15V2	J45-4 P12-13 21"			X	36 36

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3145PH UNL NAME SORT	URL 100.SAV(10)	15-MAR-72	24-MAR-75	1515	PAGE 2	
RUN NAME	A/P PIN LOCATION	BAY ORDER	0 DRAW HV MG V X Z LEVEL	REMARKS	NEW RUN INDICATOR	RUN NUM
-15V3 -15V3 -15V3	P07-1 4" P45-1 2" P45-3		BLU BLU	010AUG 010AUG	X	37 37 37
-15V4 -15V4	P1-3 P7-3 27.75"		BLU		X	38 38
-15V5 -15V5	P3-1 P5-3 14.5"		BLU		X	39 39
-15V6 -15V6	P3-4 P7-2 19.5"		BLU		X	40 40
-15VE1 -15VE1	P21-1 P34-13 64"		BLU		X	41 41
-15VF1 -15VF1	J45-1 P25-1 65"		BLU		X	42 42
-5VE1 -5VE1	P12-14 P47-3 62.75"		BRN		X	43 43
-5VM1 -5VM1	P26-3 72.5" P6-4		BRN		X	44 44
AC L01 AC L01	P14-6 70.5 P3-7		YEL	010AUG	X	45 45
AC L01' AC L01'	P14-6 P22-10 47"		YEL	010AUG	X	46 46
AC L02 AC L02	P14-10 P7-7 60.25"		YEL	010AUG	X	47 47
AC L02' AC L02'	P14-10 P22-8 46"		YEL	010AUG	X	48 48
AC01 AC01	P16-1 P18-6 11"			RED=UNT TWP(AC2)	X	49 49
AC02 AC02	P16-2 P18-7 11"			UNT=RED TWP(AC3)	X	50 50
AC03 AC03	P16-7 P19-6 15.75"			RED=UNT TWP(AC4)	X	51 51
AC04 AC04	P16-8 P19-7 15.75"			UNT=RED TWP(AC5)	X	52 52
AC05 AC05	P16-1 P17-6 11.5"			RED=UNT TWP(AC6)	X	53 53
AC06 AC06	P16-2 P17-7 11.5"			UNT=RED TWP(AC5)	X	54 54

3145PH UNL NAME SORT	URL 100.SAV(10)	15-MAR-72	24-MAR-75	1515	PAGE 4	
RUN NAME	A/P PIN LOCATION	BAY ORDER	0 DRAW HV MG V X Z LEVEL	REMARKS	NEW RUN INDICATOR	RUN NUM
AC07 AC07	P16-8 P20-6 16"			RED=UNT TWP(AC8)	X	55 55
AC08 AC08	P16-10 P20-7 16"			UNT=RED TWP(AC7)	X	56 56
AC09 AC09	P16-9 P21-6 21.5"			RED=UNT TWP(AC10)	X	57 57
AC10 AC10	P16-12 P21-8 21.5"			UNT=RED TWP(AC9)	X	58 58
AC11 AC11	P24-1 P29-6 27"			RED=UNT TWP(AC12)	X	59 59
AC12 AC12	P24-2 P29-7 27"			UNT=RED TWP(AC11)	X	60 60
AC13 AC13	P24-3 P30-7 27"			RED=UNT TWP(AC14)	X	61 61
AC14 AC14	P24-4 P30-8 27"			RED=UNT TWP(AC13)	X	62 62
AC15 AC15	P24-5 P26-7 18"			RED=UNT TWP(AC16)	X	63 63
AC16 AC16	P24-6 P26-8 18"			UNT=RED TWP(AC15)	X	64 64
AC17 AC17	P24-7 P31-6 17.5"			RED=UNT TWP(AC18)	X	65 65
AC18 AC18	P24-8 P31-7 17.5"			UNT=RED TWP(AC17)	X	66 66
AC19 AC19	P23-1 P27-6 21"			RED=UNT TWP(AC20)	X	67 67
AC20 AC20	P23-2 P27-7 21"			UNT=RED TWP(AC19)	X	68 68
AC21 AC21	P23-6 P28-6 17.5"			RED=UNT TWP(AC22)	X	69 69
AC22 AC22	P23-10 P28-7 17.5"			UNT=RED TWP(AC21)	X	70 70
AC23 AC23	P23-9 P25-6 9.5"			RED=UNT TWP(AC24)	X	71 71
AC24 AC24	P23-12 P25-8 9.5"			UNT=RED TWP(AC23)	X	72 72

3145PH.WNL NAME SORT	URL16D.SAV(16)	15-MAR-72	24-MAR-75	1515	PAGE 5						
RUN NAME	A/P	PIN LOCATION	BAY ORDER	Q	DRAW RV	RG Y	X	Z LEVEL	REMARKS	NEW RUN INDICATOR	RUN NUM
AC25		P13-1								X	73
AC25		P13-3 2.75"							#10AWG		73
AC25'		P13-1								X	74
AC25'		P23-5 64.5"							CABLE 9107761		74
AC26		P13-2								X	75
AC26		P23-6 64.5"							CABLE 9107761		75
AC26'		P13-2								X	76
AC26'		P13-4 2.75"							#10AWG		76
AC27		P15-5								X	77
AC27		P34 57"							RED-WHT TWP TO TIME MTK		77
AC28		P15-6								X	78
AC28		P35 57"							WHT-RED TWP TO TIME MTK		78
DC L01		P14-12 69.5"							#10AWG	X	79
DC L01		P3-8									79
DC L02		P22-9 71"							#10AWG	X	80
DC L02		P7-4									80
DC L0X		P22-12							#10AWG	X	81
DC L0X		P4-3 76.5"									81
DC L0Y		P14-9								X	82
DC L0Y		P6-1 64"									82
GND 01		P14-4								X	83
GND 01		P21-3 28.5"									83
GND 02		P14-5 73"								X	84
GND 02		P8-8									84
GND 03		P14-6								X	85
GND 03		P25-3 43.5"									85
GND 04		P10-5								X	86
GND 04		P22-3 74"									86
GND 05		P34								X	87
GND 05		P9-6									87
GND 06		P11-7								X	88
GND 06		P39 9"									88
GND 09		P12-8 31.5"								X	89
GND 09		P9-3									89
GND 10		P11-8								X	90
GND 10		P36-8 25.5"									90

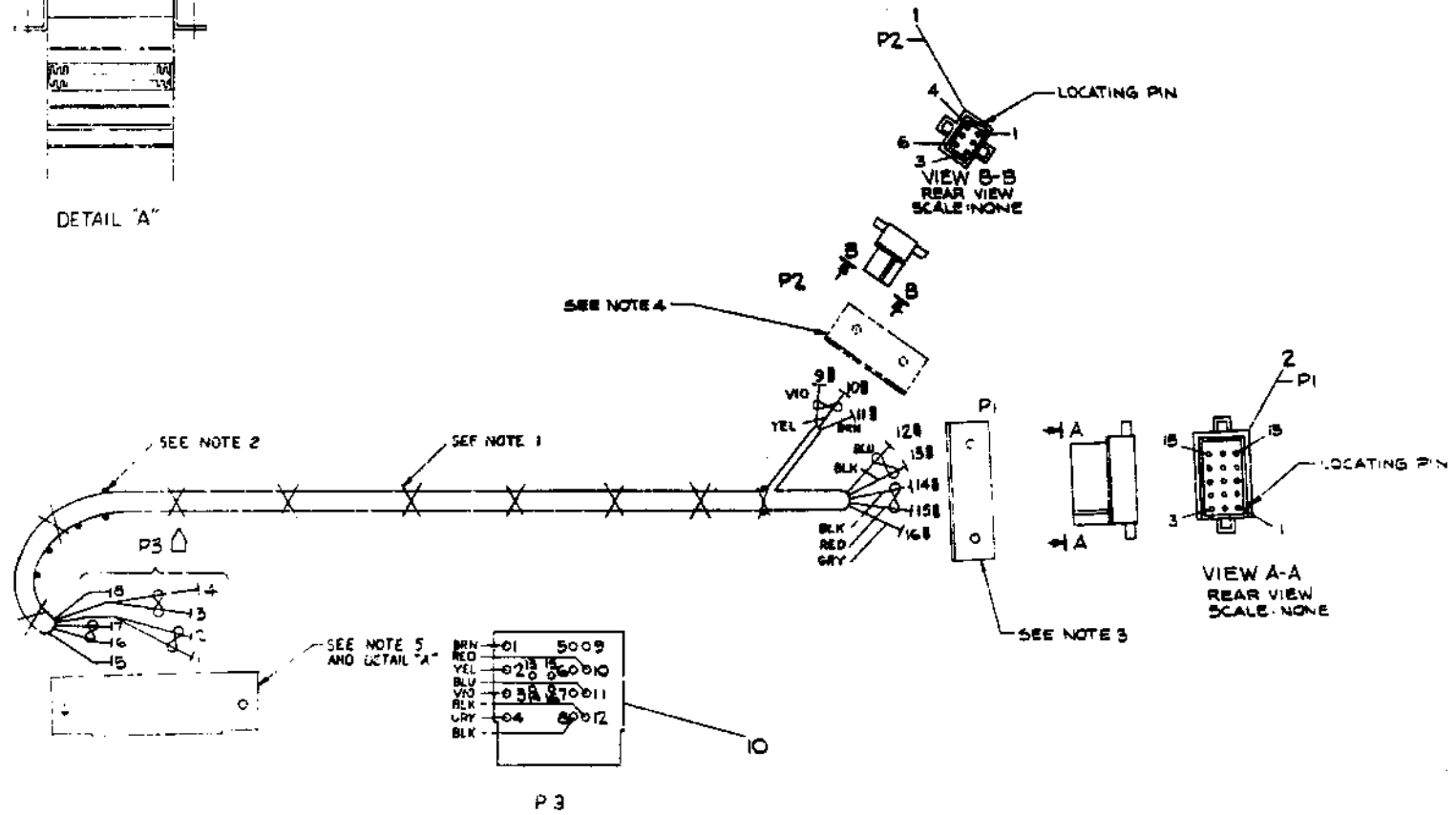
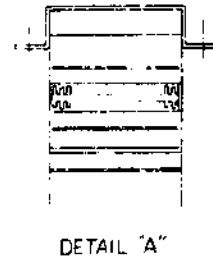
3145PH.WNL NAME SORT	URL16D.SAV(16)	15-MAR-72	24-MAR-75	1515	PAGE 6						
RUN NAME	A/P	PIN LOCATION	BAY ORDER	Q	DRAW RV	RG Y	X	Z LEVEL	REMARKS	NEW RUN INDICATOR	RUN NUM
GND 11		P1-2								X	91
GND 11		P10-3 24.5"									91
GND 12		P1-6								X	92
GND 12		P10-4 24.5"									92
GND 13		P41								X	93
GND 13		P8-7 9"									93
GND 14		P1-7								X	94
GND 14		P36-5 38									94
GND A1		P17-3 64.5"								X	95
GND A1		P8-2									95
GND A2		P17-4 66"								X	96
GND A2		P8-1									96
GND H1		P18-3 70.75"								X	97
GND H1		P8-4									97
GND H2		P18-4 71.5"								X	98
GND H2		P8-3									98
GND C1		P19-3 73.5"								X	99
GND C1		P8-6									99
GND C2		P19-4 73.5"								X	100
GND C2		P8-5									100
GND D1		P20-3 61"								X	101
GND D1		P36-7									101
GND D2		P12-7								X	102
GND D2		P211-4 61"									102
GND E1		P21-2								X	103
GND E1		P36-11 64"									103
GND E2		P12-5								X	104
GND E2		P40-2 63"							BLK-ORN TWP (+20V21)		104
GND F1		P25-2 75.5"								X	105
GND F1		P9-4									105
GND H3		P11-1								X	106
GND H3		P31-3 74.5"									106
GND H2		P11-8								X	107
GND H2		P31-4 74"									107
GND H3		P11-2								X	108
GND H3		P26-2 73"									108

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1145PH6ENL NAME SORT	URL160.SAV(16)	15-MAR-72	24-MAR-75	1515	PAGE 7
RUN NAME	A/P PIN LOCATION	BAY Q DRAW HV KG Y X Z LEVEL	REMARKS	NEW RUN INDICATOR	RUN NUM
GND J1	P27-3 62.5"				
GND J1	P9-2		BLK	X	109
GND J2	P27-4 62.5"				
GND J2	P9-3		BLK	X	110
GND K1	P11-4				
GND K1	P28-3 76"		BLK	X	111
GND K2	P11-3				
GND K2	P28-4 76"		BLK	X	112
GND L1	P11-6				
GND L1	P29-3 61"		BLK	X	113
GND L2	P11-5				
GND L2	P29-4 61"		BLK	X	114
GND L3	P30-2				
GND L3	P9-6 84"		BLK	X	115
LINE CLOCK	P14-1b				
LINE CLOCK	P37-2 58.5"		BRN	X	116
					018AWG
LINE CLOCK'	P2-7				
LINE CLOCK'	P37-2 33"		BRN	X	117
					018AWG
LO GND U1	P10-1				
LO GND U1	P14-7 66"		BLK	X	118
					018AWG
LO GND U2	P10-2				
LO GND U2	P22-7 76"		BLK	X	119
					018AWG
LO GND U3	P37-1 30.5"				
LO GND U3	P9-5		BLK	X	120
					018AWG
PWR CONT COM1	P1-3				
PWR CONT COM1	P32-3 76.25"		BLK-WHT	X	121
					TWP(P,C SW1)018AWG
PWR CONT SW1	P1-4				
PWR CONT SW1	P32-1 76.25"		WHT-BLK	X	122
					TWP(P,C COM1)018AWG
SHIELD	P23-4				
					CABLE 9107761
THERM 1	P13-6				
THERM 1	P33-3 77.75"		BLK	X	124
					018AWG
THERM 2	P13-5				
THERM 2	P33-2 77.75"		RED	X	125
					018AWG

WIRE TABLE								
ITEM NO.	DESCRIPTION	FROM	TO	SIGNAL				
5	14 RED 3	P3-10	SOLD 15 P1-1	+5V				
	14 TWP BLK 4	P2-8	SOLD 14 P1-7	GND				
9	14 GRN 5	P3-4	SOLD 16 P1-2	+15V				
6	14 BLK 1	P3-12	SOLD 13 P1-8	GND				
	14 TWP BLU 2	P3-11	SOLD 12 P1-13	-15V				
8	18 BRN 8	P3-1	SOLD 11 P2-2	LT ₆				
7	18 VIO 6	P3-3	SOLD 9 P2-3	D ₆ LT ₆				
	18 TWP YEL 7	P3-2	SOLD 10 P2-4	A ₆ LT ₆				
11	22 - -	P3-13	SOLD - P3-14	D ₆ LT ₆				
11	22 - -	P3-15	SOLD - P3-16	A ₆ LT ₆				

- NOTES:
- USE TIE WRAPS (X) ITEM #4 APPROXIMATELY EVERY THREE (3) INCHES WHEN NECESSARY AND AT EVERY BREAKOUT POINT.
 - DOT (•) INDICATES NAIL LOCATIONS FOR ASSEMBLY USE ONLY. COVER NAILS WITH SHRINK TUBING TO PREVENT CUTTING HARNESS.
 - USE CONN BRKT C-MD-930576-1-50 MOUNT WITH WOOD SCREWS. USE MATING CONN 1209350-5.
 - USE CONN BRKT C-MD-930576-1-60 MOUNT WITH WOOD SCREWS. USE MATING CONN 1209350-6.
 - USE CONN HOLD DOWN B-MD-930576-00 WITH PLATE B-MD-930576-0-1. USE TAPE DEC #9008734 / CONN H807 DEC #1209123 REMOVE PINS / FLANGES AS SHOWN IN DETAIL "A". MOUNT WITH WOOD SCREWS.



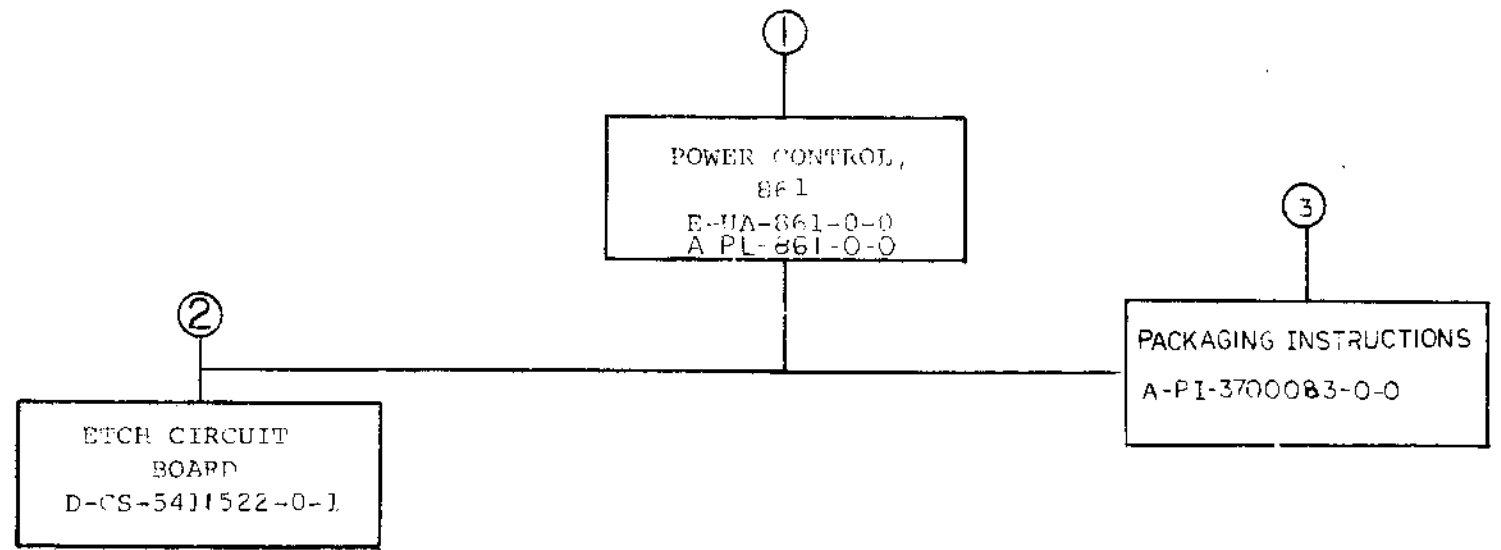
A/R BUSS WIRE #22AWG	93075600-11	11
1 POWER CONN	6772	10
A/R WIRE #14AWG GRN	910730-85	3
A/R WIRE #14AWG BRN	9107360-11	8
A/R WIRE #18TWP YEL/VIO	910740-47	7
A/R WIRE #14TWP BLK/BLU	9107440-06	6
A/R WIRE #14TWP BLK/RED	9107440-02	5
A/R WRAP TIE	9007103	4
8 PIN MALE	1209350-00	3
1 HOUSING CONN 5PIN	1209350-15	2
SYM HOUSING CONN 6PIN	1209350-08	1

772 SYSTEM UNIT HARNESS

81A 7009362-0-0

EQUIPMENT CORPORATION

SEE PARTS LIST



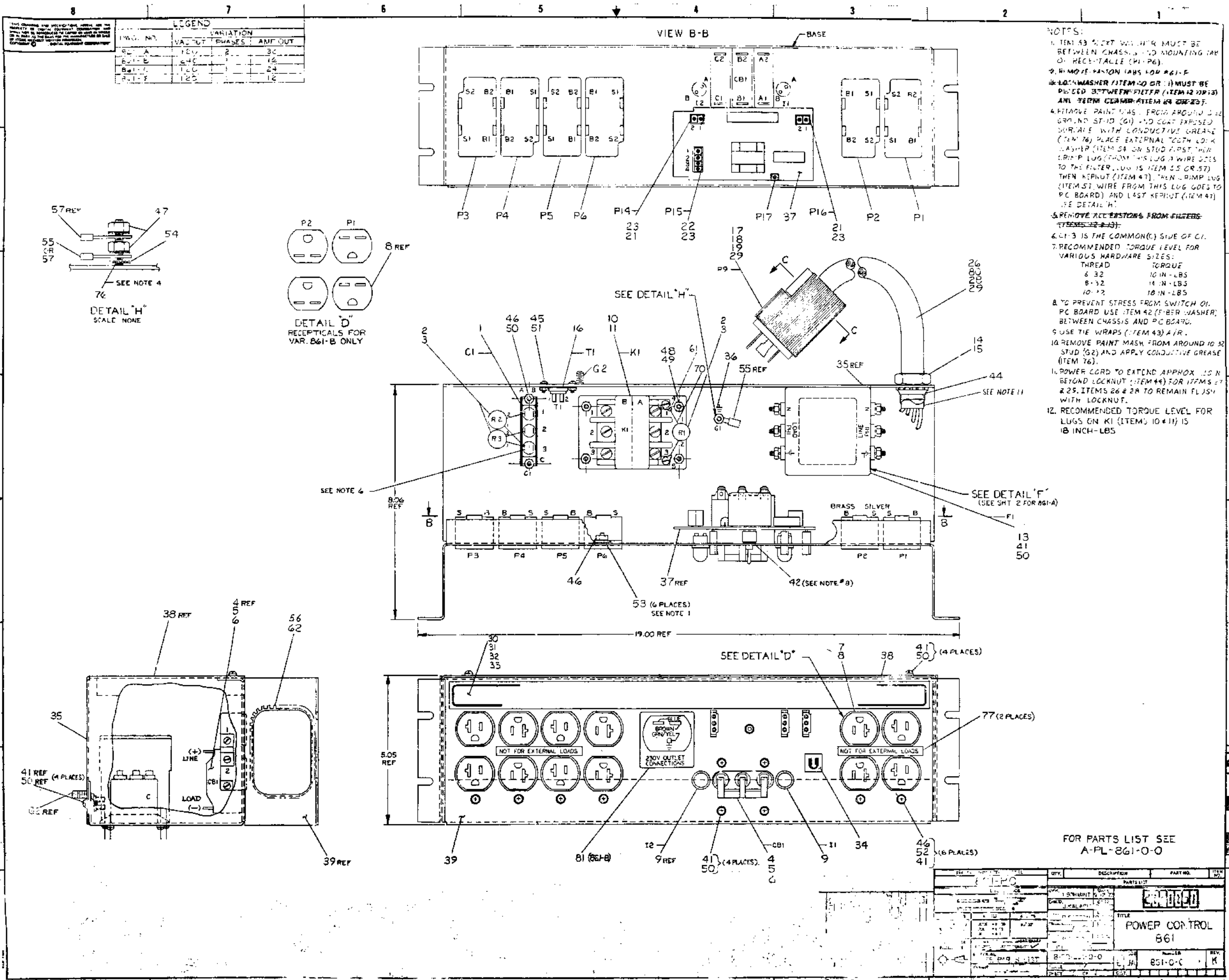
TITLE	SHEET	SIZE	CODE	NUMBER	REV
POWER CONTROL,	2 OF 3	B	DD	861-0	K

CUSTOMER PRINT SET		ELECTRICAL					CUSTOMER PRINT SET		MECHANICAL					
861-1	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	OPTION NO./FILE DATE	861-1	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
X		1	D-CS-861-A-1	E	1	CIRCUIT SCHEMATIC, 861 P.C.	X		1	E-UA-861-0-0	K	2	POWER CONTROL, 861	
X			D-CS-861-B-1	E	1	CIRCUIT SCHEMATIC, 861 P.C.				E-IA-7410567-0-0	C	1	CHASSIS, 861 PC	
X			D-CS-861-C-1	E	1	CIRCUIT SCHEMATIC, 861 P.C.				D-IA-7410568-0-0	C	2	COVER, 861 P.C.	
			A-SP-861-0-1		2	TEST AND INSPECTION PRO.				A-PS-3611216-0-0			NAME PLATE 861-A	
X			D-CS-861-F-1	D	1	CIRCUIT SCHEMATIC, 861 P.C.				C-SS-3611216-0-1		1	NAME PLATE 861-A ARTWORK	
										A-PS-3611217-0-0			NAME PLATE 861-B	
										C-SS-3611217-0-1		1	NAME PLATE 861-B ARTWORK	
										A-PS-3611218-0-0			NAME PLATE 861-C	
										C-SS-3611218-0-1		1	NAME PLATE 861-C ARTWORK	
X		2	D-CS-5411522-0-1	A	1	PILOT CONTROL				A-PS-3612382-0-0			NAME PLATE 861-F	
			PC-5011522			ETCH CIRCUIT BOARD				C-SS-3612382-0-1		1	NAME PLATE 861-F ARTWORK	
			K-CO-5411522-0-4			X Y COORDINATE HOLE LOCATION				A-PL-861-0-0	J	4	POWER CONTROL, 861	
			D-AH-5411522-0-5			ASSY DRILLING HOLE LAYOUT								
			B-MH-5411522-0-6			MODULE ECO HISTORY								
									3	A-PI-3700085-0-0		2	PACKAGING INSTRUCTIONS	
										A-PS-9905229-0-0		2	FULL OVER LAP CARTON	
										A-PS-9905228-0-0		2	EXPANDER POLYSTYRENE FOAM INSERT	

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: POWER CONTROL, 861
 SHEET 3 OF 3
 SIZE CODE: B DD
 NUMBER: 861-0
 REV: K

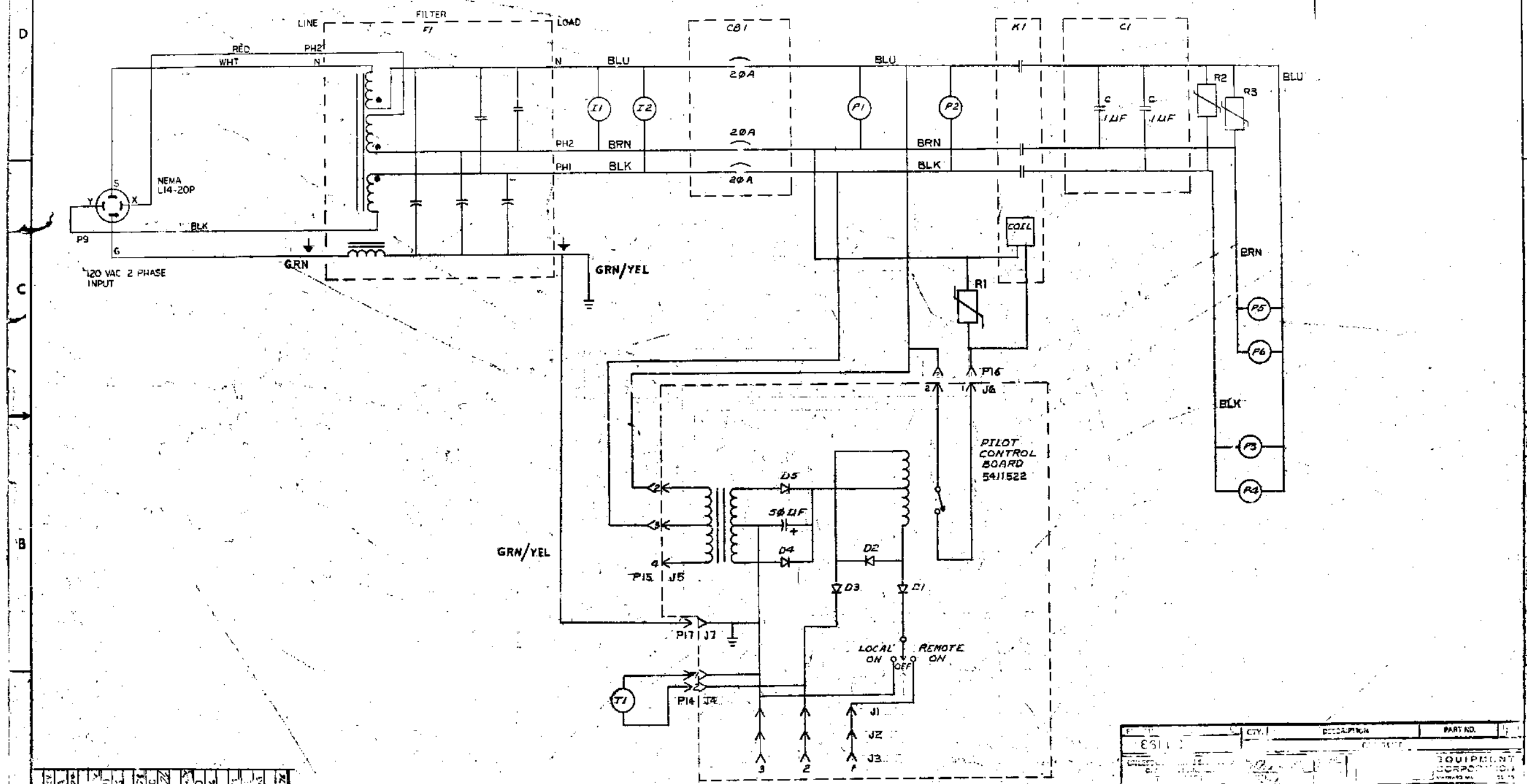
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1-V-1985-2

NOTE:
R1, R2, + R3 ARE MOV VARISTOR SPIKE SUPPRESSORS.



REV	BY	DATE	DESCRIPTION
1	A	11-15-54	REVISED TO ADD P9
2	A	11-15-54	REVISED TO ADD PH2
3	A	11-15-54	REVISED TO ADD N1
4	A	11-15-54	REVISED TO ADD N2
5	A	11-15-54	REVISED TO ADD PH1
6	A	11-15-54	REVISED TO ADD PH2
7	A	11-15-54	REVISED TO ADD N1
8	A	11-15-54	REVISED TO ADD N2
9	A	11-15-54	REVISED TO ADD PH1
10	A	11-15-54	REVISED TO ADD PH2
11	A	11-15-54	REVISED TO ADD N1
12	A	11-15-54	REVISED TO ADD N2
13	A	11-15-54	REVISED TO ADD PH1
14	A	11-15-54	REVISED TO ADD PH2
15	A	11-15-54	REVISED TO ADD N1
16	A	11-15-54	REVISED TO ADD N2
17	A	11-15-54	REVISED TO ADD PH1
18	A	11-15-54	REVISED TO ADD PH2
19	A	11-15-54	REVISED TO ADD N1
20	A	11-15-54	REVISED TO ADD N2

REV	BY	DATE	DESCRIPTION	PART NO.
1	A	11-15-54	REVISED TO ADD P9	5411522
2	A	11-15-54	REVISED TO ADD PH2	5411522
3	A	11-15-54	REVISED TO ADD N1	5411522
4	A	11-15-54	REVISED TO ADD N2	5411522
5	A	11-15-54	REVISED TO ADD PH1	5411522
6	A	11-15-54	REVISED TO ADD PH2	5411522
7	A	11-15-54	REVISED TO ADD N1	5411522
8	A	11-15-54	REVISED TO ADD N2	5411522
9	A	11-15-54	REVISED TO ADD PH1	5411522
10	A	11-15-54	REVISED TO ADD PH2	5411522
11	A	11-15-54	REVISED TO ADD N1	5411522
12	A	11-15-54	REVISED TO ADD N2	5411522
13	A	11-15-54	REVISED TO ADD PH1	5411522
14	A	11-15-54	REVISED TO ADD PH2	5411522
15	A	11-15-54	REVISED TO ADD N1	5411522
16	A	11-15-54	REVISED TO ADD N2	5411522
17	A	11-15-54	REVISED TO ADD PH1	5411522
18	A	11-15-54	REVISED TO ADD PH2	5411522
19	A	11-15-54	REVISED TO ADD N1	5411522
20	A	11-15-54	REVISED TO ADD N2	5411522

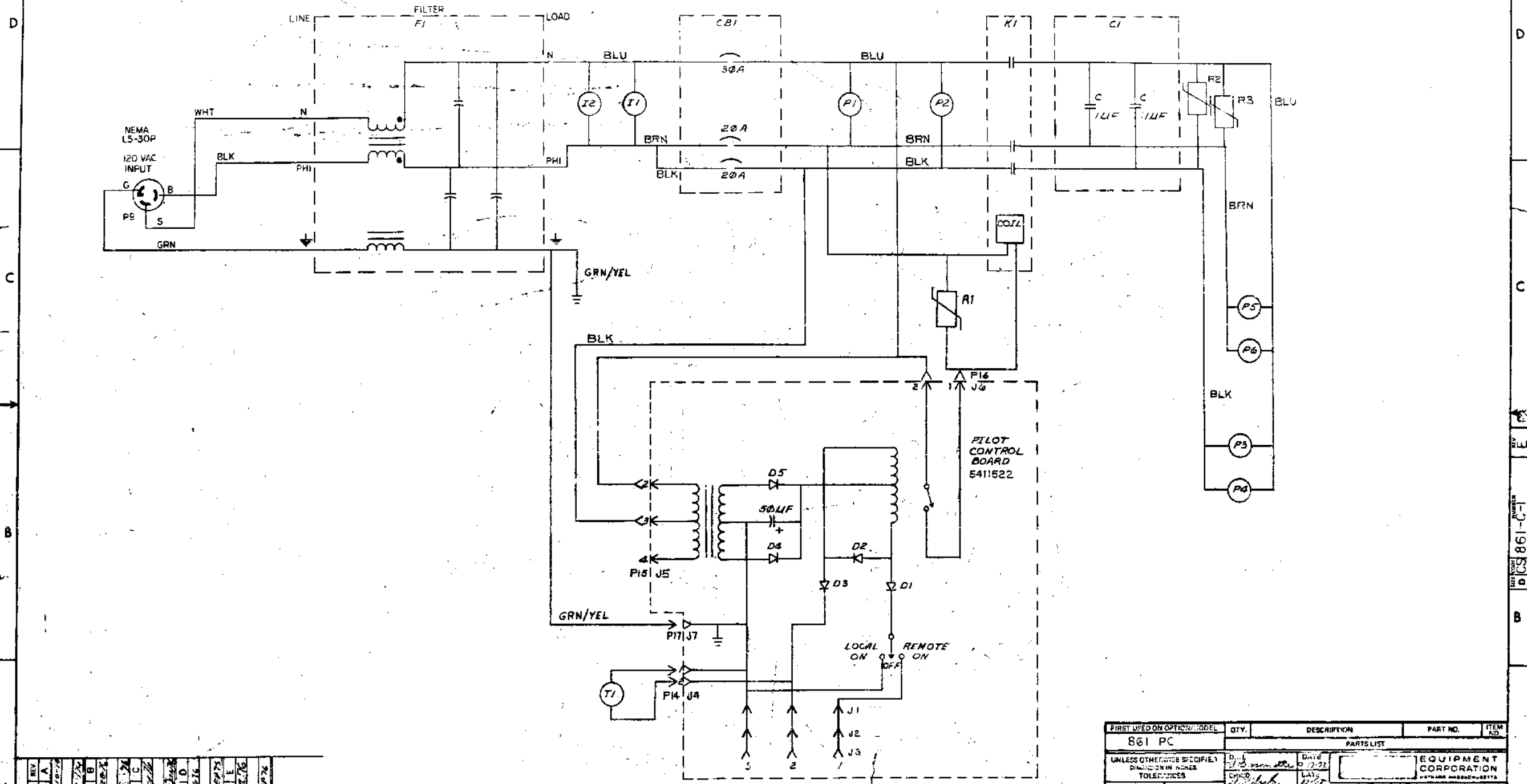
CIRCUIT SCHEMATIC

142

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10-1985 2

NOTE:
R1, R2, R3 ARE MOV VARISTOR
SPIKE SUPPRESSORS.



REV	CHANGE NO.	DATE	BY	CHKD
A	1	12-10-76	R. KENNEDY	
B	1	12-10-76	R. KENNEDY	
C	1	12-10-76	R. KENNEDY	
D	1	12-10-76	R. KENNEDY	
E	1	12-10-76	R. KENNEDY	

FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
861 PC		PARTS LIST		
UNLESS OTHERWISE SPECIFIED, DIMENSIONS IN INCHES TOLERANCES		EQUIPMENT CORPORATION		
DECIMALS	ANGLES	TITLE		
.XXX = F30	±0°30'	CIRCUIT SCHEMATIC		
.XX = F20		861-C PC		
.X = F10		DATE 12-14-76		
REMOVE SPURS AND BREAK SHARP CORNERS SURFACE QUALITY		DATE 12-14-76		
MATERIAL	B-DD-861-0	SIZE CODE	NUMBER	REV.
FINISH		DCS	861-C-1	E

144

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**DIGITAL EQUIPMENT CORPORATION
MAYNARD MASSACHUSETTS**

PACKAGING INSTRUCTION REV: A DATE: 4-73
TITLE 861 POWER CONTROL, INTERPLANT PACKAGE

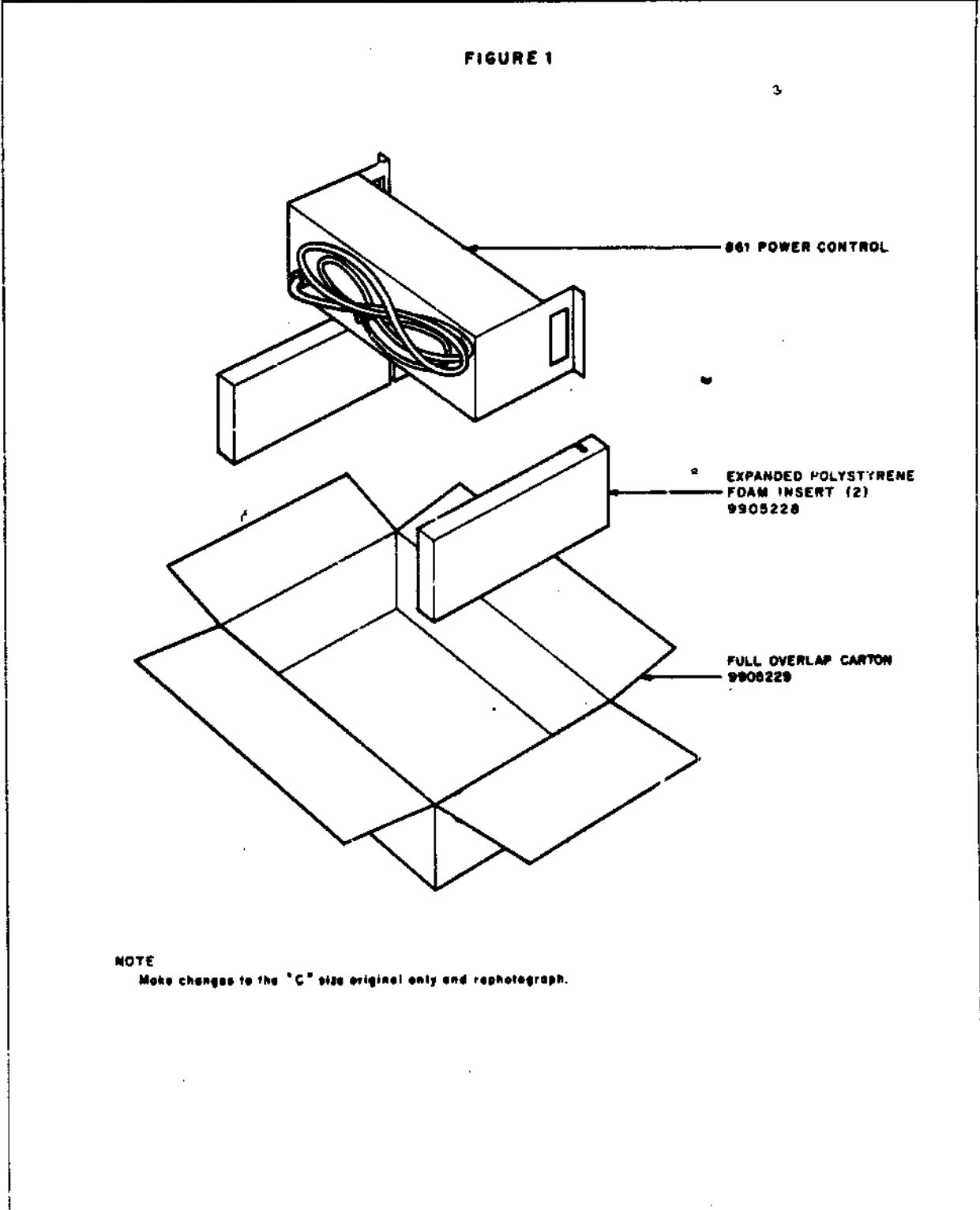
MATERIAL REQUIREMENTS			
Quantity	Identification No.	Purchase Spec	Description
1	7-2008 1314 0500-0	9905229	Full overlap carton
2		9905228	Expanded polystyrene foam insert
A/R			3-inch wide Glasflex tape

PACKAGING INSTRUCTIONS	
Step	Procedure
1	Set up the full over lap carton (9905229) using one strip of tape across the bottom and extending up the sides approximately three inches. See Figure 1.
2	Place one expanded polystyrene foam insert (9905228) in each end of the carton with the slots in the foam facing inward.
3	Place the 861 power control in the carton with the ears of the upright sliding into the slots in the foam.
4	Coil the power cord so that it fits into the cavity in the rear of the power control.
5	Close and seal the carton with one piece of tape across the top of the carton and extending down the sides approximately three inches.

ENG. <i>[Signature]</i> 4/15/73	APPD. <i>[Signature]</i>	SIZE <u> A </u>	CODE <u> PI </u>	NUMBER <u> 3700083-0-0 </u>	REV <u> A </u>
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PACKAGING INSTRUCTION REV: A DATE: 4/73
TITLE 861 POWER CONTROL, INTERPLANT PACKAGE



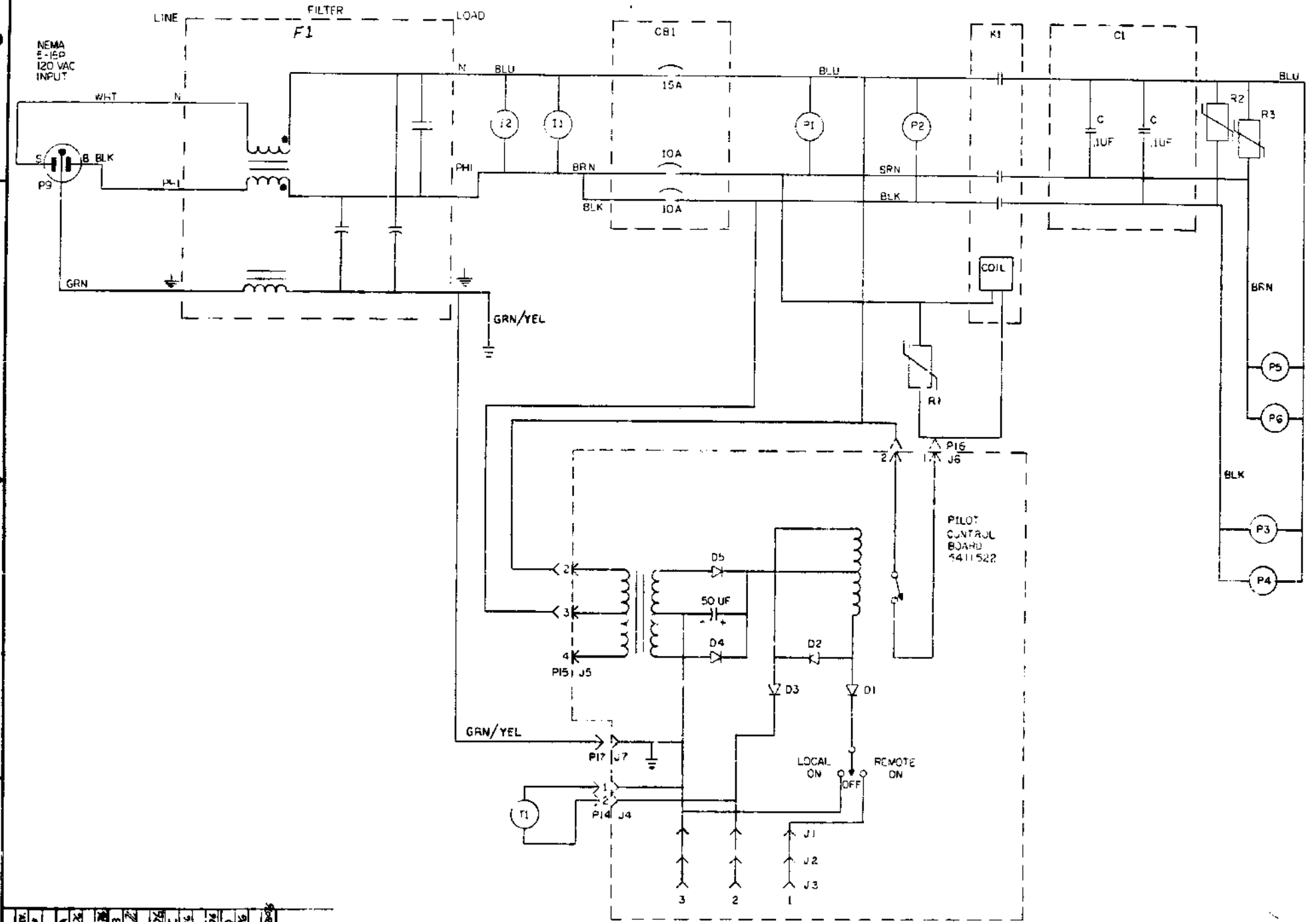
NOTE
 Make changes to the "C" size original only and rephotograph.

ENG. <i>[Signature]</i>	APPD. <i>[Signature]</i>	SIZE <u> A </u>	CODE <u> PI </u>	NUMBER <u> 3700083-0-0 </u>	REV <u> A </u>
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8 7 6 5 4 3 2 1
 D F-1198 2 1

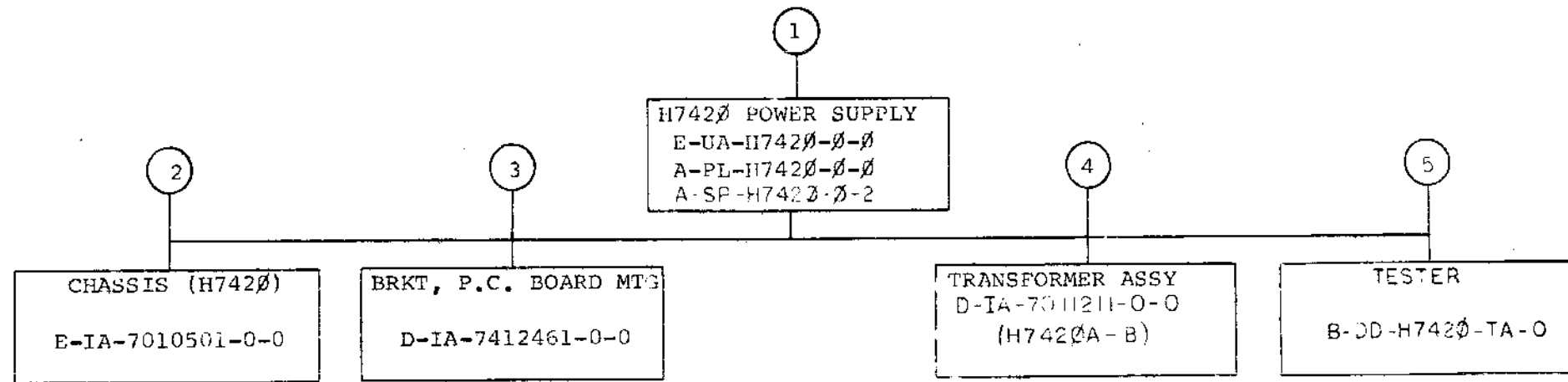
NOTE:
 R1, R2 + R3 ARE MOV VARISTOR SPIKE SUPPRESSORS.



REV.	DATE	BY	CHKD	DESCRIPTION
1	11-12-75	R. KENNEDY		ORIGINAL
2	11-12-75	R. KENNEDY		REVISED
3	11-12-75	R. KENNEDY		REVISED
4	11-12-75	R. KENNEDY		REVISED
5	11-12-75	R. KENNEDY		REVISED
6	11-12-75	R. KENNEDY		REVISED
7	11-12-75	R. KENNEDY		REVISED
8	11-12-75	R. KENNEDY		REVISED

DESCRIPTION		DWG. PART NO.		ITEM NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES					
ANGLE	CLASS OF ACCURACY	NOMINAL DIMENSION RANGE (INCHES)			
30°	ASSEMBLY	0.000 - 0.250	0.250 - 0.500	0.500 - 1.000	1.000 - 2.000
SURFACE QUALITY	CHECK ONE	0.000	0.000	0.000	0.000
FINISH	CHECK ONE	0.000	0.000	0.000	0.000
QUANTITY & VARIATION	CHECK ONE	0.000	0.000	0.000	0.000
THIRD ANGLE PROJECTION	CHECK ONE	0.000	0.000	0.000	0.000
REMOVE BURRS AND BREAK SHARP CORNERS	CHECK ONE	0.000	0.000	0.000	0.000
DO NOT SCALE DIMS	CHECK ONE	0.000	0.000	0.000	0.000
MATERIAL	CHECK ONE	0.000	0.000	0.000	0.000
FINISH	CHECK ONE	0.000	0.000	0.000	0.000
DRN: R. KENNEDY		FIRST USED ON: 861 FC		DATE: 11-12-75	
CHKD: R. KENNEDY		TITLE: CIRCUIT SCHEMATIC		NUMBER: 861-F-1	
PRG. ENGR: R. KENNEDY		SCALE: D		REV. D	
PROC. ENGR: R. KENNEDY		SIZE: D		DWT.:	
NEXT HIGHER ASBY:		DWT.:		DWT.:	

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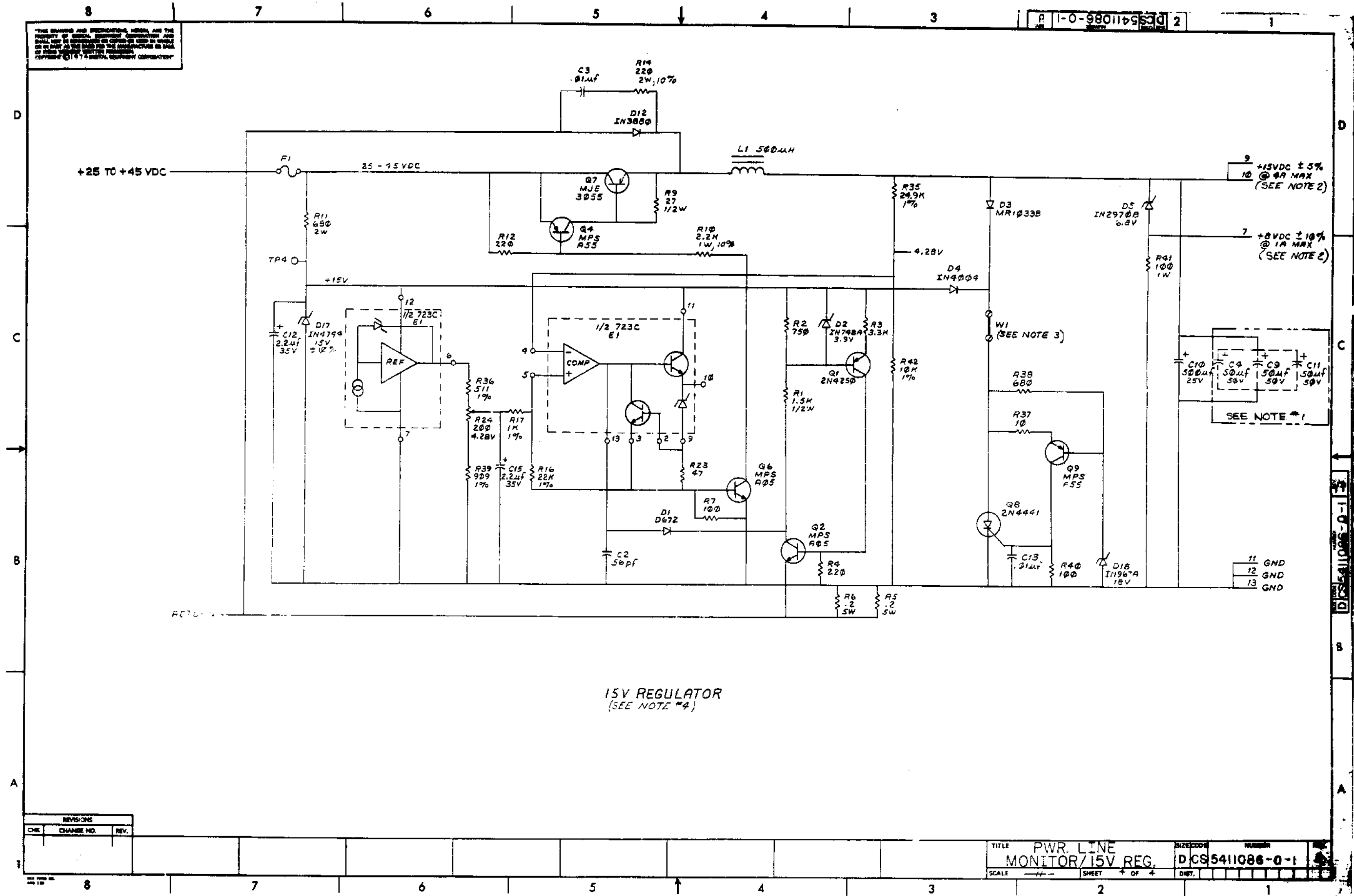


TITLE	SHEET 2 OF 3	SIZE CODE	NUMBER	REV
H7420 POWER SUPPLY	B DD	H7420-0	E	

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DCS 5411086-0-1 2



15V REGULATOR
(SEE NOTE #4)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	PWR. LINE MONITOR/15V REG.	SIZE CODE	NUMBER
SCALE	—+—	SHEET	4 OF 4
DIST.			

154

Part shown and description shall be the property of the manufacturer and shall not be used in whole or in part for the manufacture of any other product without the written consent of the manufacturer.

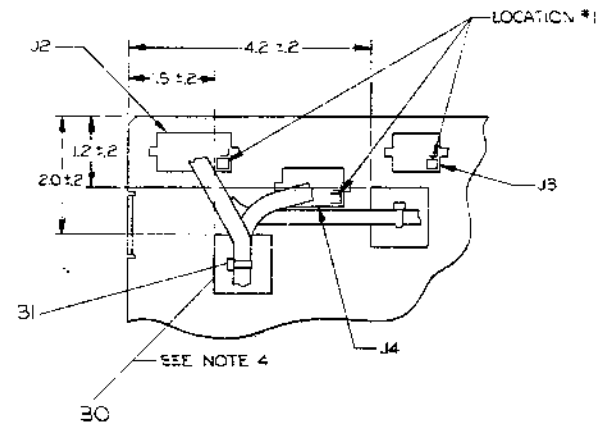
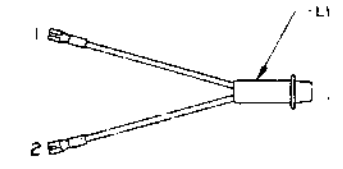
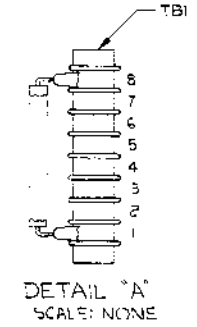
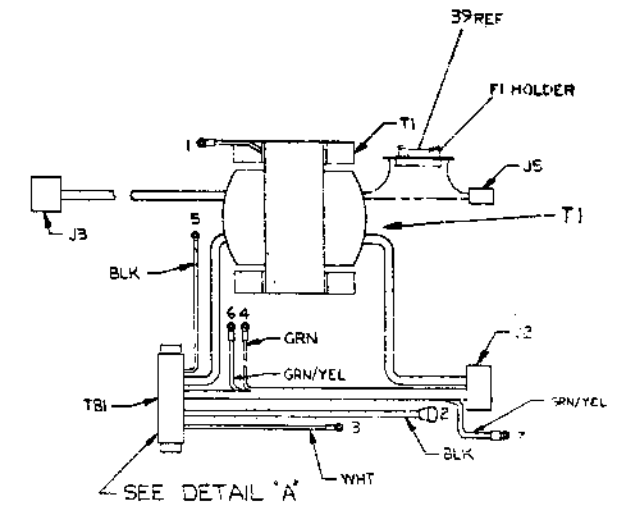
DO NOT SCALE DRAWING

WIRE TABLE

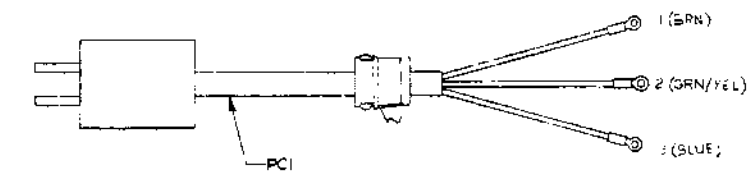
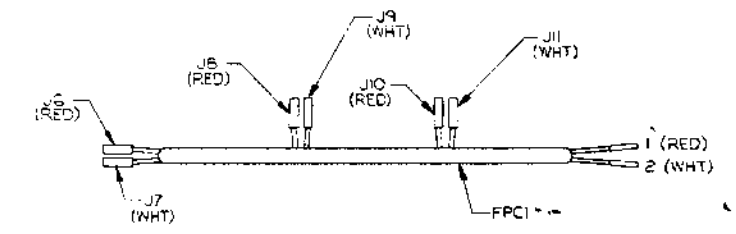
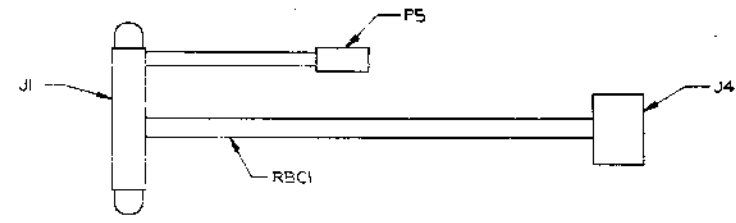
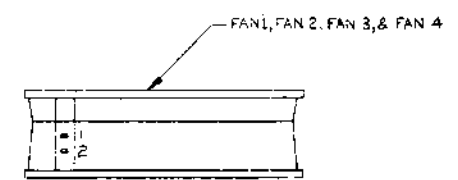
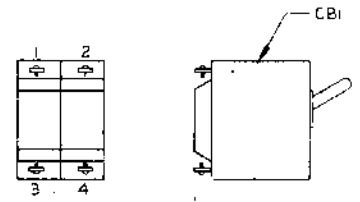
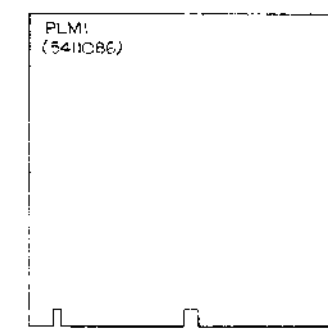
ITEM NO	DESCRIPTION	FROM CONNECTION	TO CONNECTION	REMARKS
10	14 GRN	T1-5	RBC1-P5	SEE NOTE 2&7
1	14 BLK	T1-2	FAN1-1 & 2	
1	14 WHT	T1-3	CBI-1	
1	14 GRN	T1-4	G1	SEE NOTE 7
10	14 BLK	T1-5	CBI-2	
5	22 BLK	L1-1	TBI-5	
5	22 BLK	L1-2	TBI-7	
7	18 RED	FPC1-J6	FAN 4-1	
1	WHT	FPC1-J7	FAN 4-2	
1	RED	FPC1-J8	FAN 3-1	
1	WHT	FPC1-J9	FAN 3-2	
1	RED	FPC1-J10	FAN 2-1	
1	WHT	FPC1-J11	FAN 2-2	
1	RED	FPC1-1	J2-3	
7	18 WHT	FPC1-2	J2-7	
8/9	4 BRN	PCI-1	CBI-4	
8/9	4 GRN/YEL	PCI-2	G1	SEE NOTE 7
8/9	14 BLK	PCI-3	CBI-3	
11	14 GRN/YEL	PLM1	RBC1-J1	SEE NOTE 7
10	14 GRN/YEL	T1-6	G1	SEE NOTE 7
10	14 GRN/YEL	T1-7	G2	SEE NOTE 7

JUMPER TABLE

ITEM NO	DESCRIPTION	FROM CONNECTION	WITH CONNECTION	TO CONNECTION	WITH CONNECTION	PRECUT LENGTH	VARIATION
29	14 BLK	TBI-2	ITEM 28	TBI-5	ITEM 28	3.0	H7420E(A)
29	14 BLK	TBI-4	ITEM 28	TBI-8	ITEM 28	3.0	
29	14 BLK	TBI-4	ITEM 28	TBI-6	ITEM 28	3.0	H7420F(B)



SECTION B-B
SCALE: NONE



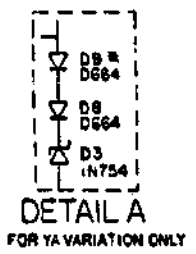
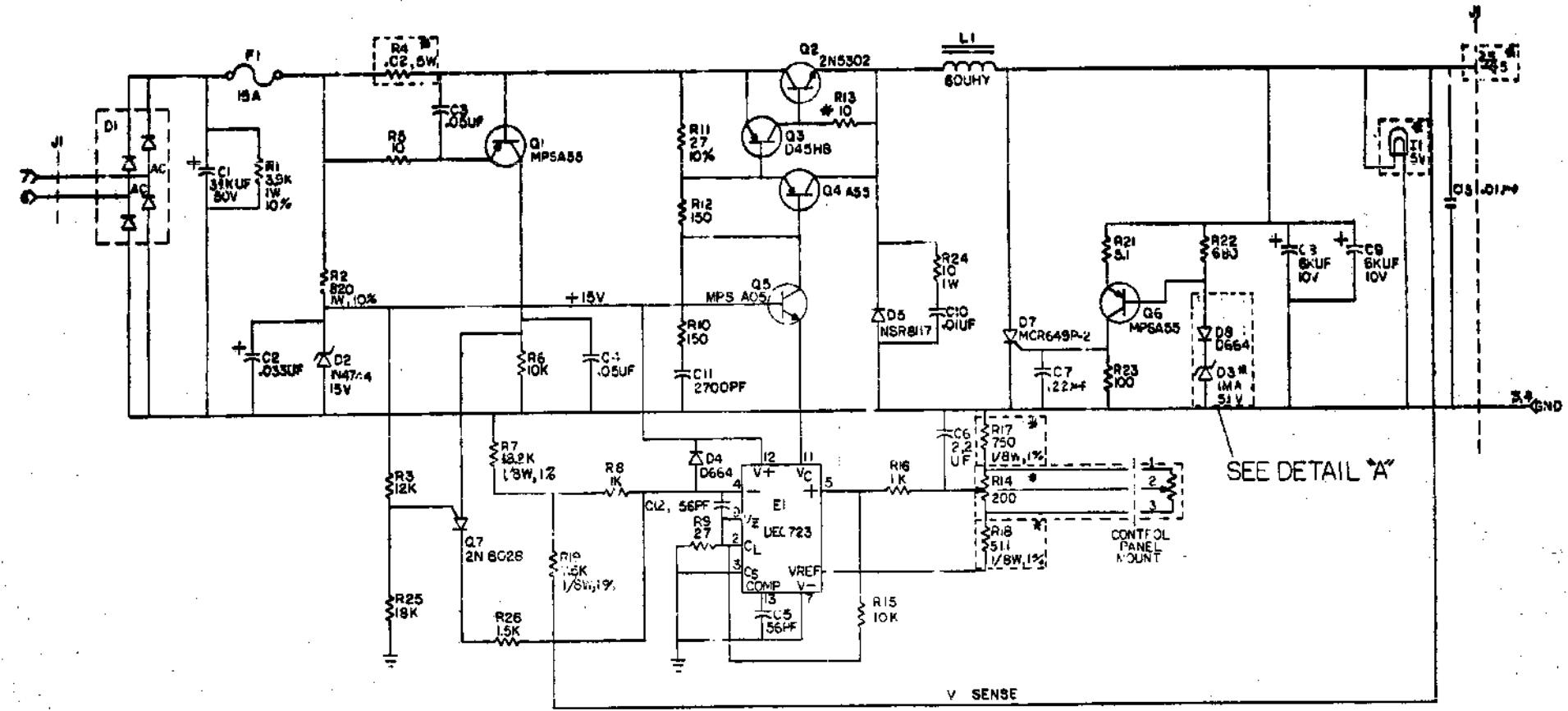
REV	CHANGE NO.	REV

CUSTOMER PRINT SET		ELECTRICAL						CUSTOMER PRINT SET		MECHANICAL					
H744-1	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE	H744-1	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
X		1	D-CS-H744-0-1	Y	1	CIRCUIT SCHEMATIC	H744	X		1	E-UA-H744-0-0	Y	1	UNIT ASSY	H744
	X		A-SP-H744-0-3			TEST PROCEDURE	H744				D-PS-1210737-0-0		1	HEAT SINK	H744
	X		A-SP-H744-0-8			MFG. SPEC	H744				D-IA-5309756-0-0		1	REGULATOR BRK'T	H744
											C-IA-5309760-0-0		1	COMPONENT COVER	H744
											C-MD-5309759-0-0		1	CAPACITOR STRAP	H744
										2	A-PI-3700074-0-0	-	2	PACKAGING INSTRUCTION	H744
											A-PS-9905211-0-0	-	2	OUTER CARTON	
											A-PS-9905212-0-0	-	2	INNER PACKAGING	
											C-IA-7412388-0-0		2	5 CAP HOLDER	H744

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: +5v REGULATOR
SHEET2 OF 2
SIZE CODE: B DD
NUMBER: H744-0
REV: P

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



*FUSIBLE RESISTOR

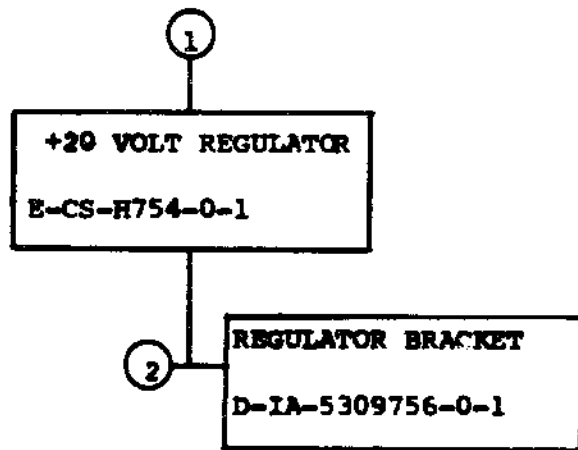
- FOR YA VARIATION COMPONENT VALUES ARE AS FOLLOWS:
- R4 - 0.6 SW
 - R14 - 1K 10 TURN
 - R17 - 300 1/8W 1%
 - R18 - 150 1/4W 5%
 - D3 - IN754
 - I1 - 15V
 - J1-25 - +20-8.0V
- # D9 - D664 ADDED FOR YA VARIATION ONLY

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

Q1	MPS655	Q2	2N5302	Q3	D45HB	Q4	455	Q5	MPS655	Q6	MPS655	Q7	2N6028
D1	AC	D2	1N4744	D3	1N754	D4	D664	D5	NSR817	D6	D664	D8	D664
R1	3.9K	R2	820	R3	12K	R4	0.6 SW	R5	10	R6	10K	R7	82.2K
R8	1K	R9	15K	R10	150	R11	27	R12	150	R13	10	R14	1K 10 TURN
R15	10K	R16	1K	R17	300	R18	150	R19	15K	R20	100	R21	5.1
R22	680	R23	100	R24	10	R25	18K	R26	15K	R27	100	R28	511
C1	33KUF	C2	0.33UF	C3	0.05UF	C4	0.05UF	C5	56PF	C6	0.01UF	C7	22M
C8	8KUF	L1	60UH	J1-25	+20-8.0V								

QTY	REF DESIGNATION	DESCRIPTION	PART NO.
1	F1	FUSE	
1	L1	INDUCTOR	
1	J1-25	CONNECTOR	
1	U1	REGULATOR	UEL 723
1	Q1	TRANSISTOR	MPS655
1	Q2	TRANSISTOR	2N5302
1	Q3	DIODE	D45HB
1	Q4	DIODE	455
1	Q5	TRANSISTOR	MPS655
1	Q6	TRANSISTOR	MPS655
1	Q7	TRANSISTOR	2N6028
1	D1	DIODE	AC
1	D2	DIODE	1N4744
1	D3	DIODE	IN754
1	D4	DIODE	D664
1	D5	DIODE	NSR817
1	D6	DIODE	D664
1	D8	DIODE	D664
1	D9	DIODE	D664
1	R1	RESISTOR	3.9K
1	R2	RESISTOR	820
1	R3	RESISTOR	12K
1	R4	RESISTOR	0.6 SW
1	R5	RESISTOR	10
1	R6	RESISTOR	10K
1	R7	RESISTOR	82.2K
1	R8	RESISTOR	1K
1	R9	RESISTOR	15K
1	R10	RESISTOR	150
1	R11	RESISTOR	27
1	R12	RESISTOR	150
1	R13	RESISTOR	10
1	R14	RESISTOR	1K 10 TURN
1	R15	RESISTOR	10K
1	R16	RESISTOR	1K
1	R17	RESISTOR	300
1	R18	RESISTOR	150
1	R19	RESISTOR	15K
1	R20	RESISTOR	100
1	R21	RESISTOR	5.1
1	R22	RESISTOR	680
1	R23	RESISTOR	100
1	R24	RESISTOR	10
1	R25	RESISTOR	18K
1	R26	RESISTOR	15K
1	R27	RESISTOR	100
1	R28	RESISTOR	511
1	C1	CAPACITOR	33KUF
1	C2	CAPACITOR	0.33UF
1	C3	CAPACITOR	0.05UF
1	C4	CAPACITOR	0.05UF
1	C5	CAPACITOR	56PF
1	C6	CAPACITOR	0.01UF
1	C7	CAPACITOR	22M
1	C8	CAPACITOR	8KUF
1	L1	INDUCTOR	60UH
1	J1-25	CONNECTOR	+20-8.0V

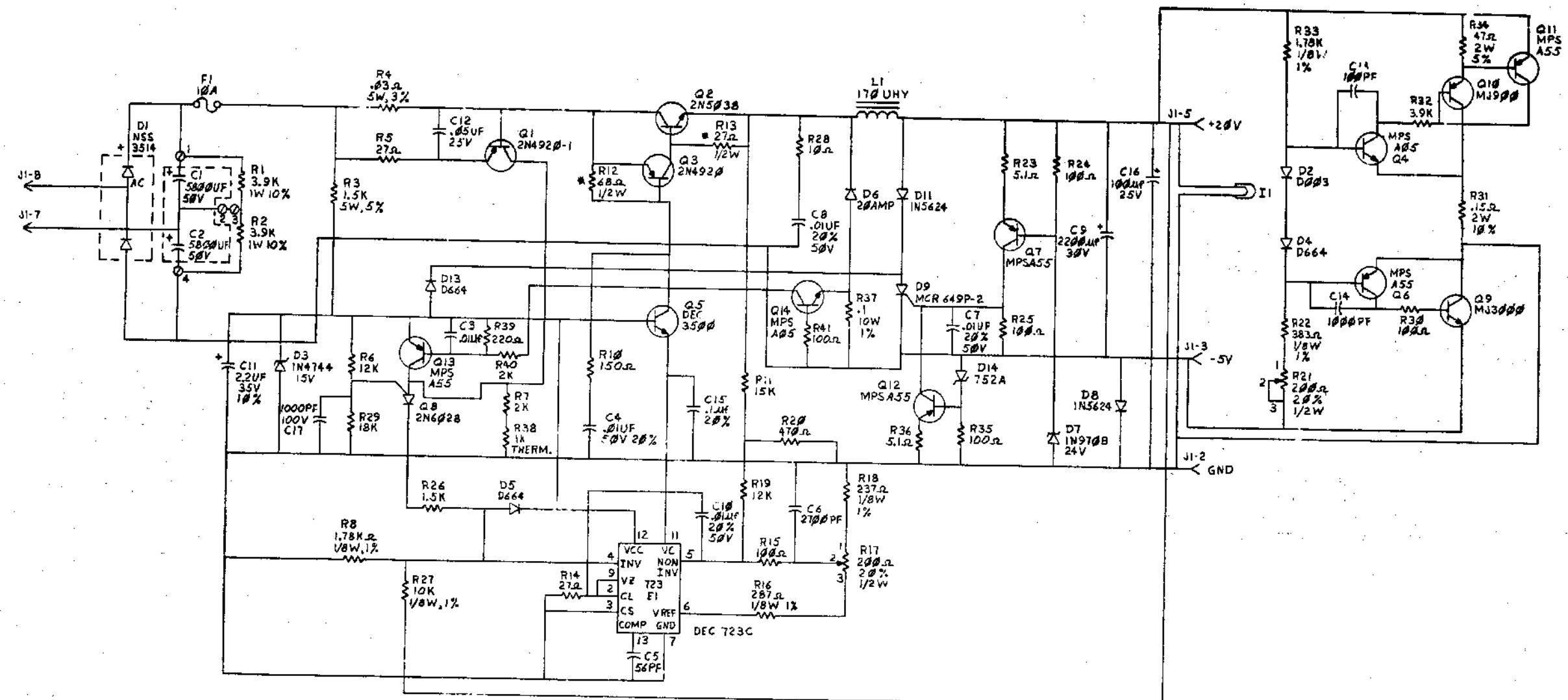
5V REGULATED



TITLE	SHEET 3 OF 3	REV CODE	NUMBER	REV
+20 VOLT REGULATOR		B DD	H754-β	B

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1-0-652H S30 2



* FUSIBLE RESISTOR

DRW. BY: S. B. BRETHERTON 2-2-73	FIRST USED ON: H754	Digital
CHKD BY: R. VONLES 2-17-73	ENG. R. BURTON 2-2-73	
PROJ. ENG. R. BURTON 5-7-73	PROD. L. B. SPITZ 5-9-73	TITLE: +20 VOLT REGULATOR
NEXT HIGHER ASSY.		SCALE: 1:1
SHEET 2 OF 2		DATE: 2-2-73

D CS H754-0-1

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY MAT GAIGE
DATE 8 MAR 76
ENG *David Bowen*
DATE 12 MAR 76

CHECKED D. HEALY
DATE 9 MAR 76
PROD *D. Bowen*
DATE 12 MAR 76

SECTION 1
ISSUED SECT. 1

ITEM NO	DWG NO. / PART NO.	DESCRIPTION	SIZE CODE	NUMBER	REV	ECO NO
1	MP00039	11/55 PRINT SET (CPU)	A	11/55-0-3	A	
2	MP00040	11/55 PRINT SET (INTERNAL OPTIONS)				
3	EK-11045-MM	11/45 SYSTEM & INSTALLATION MANUAL				
4	EK-KB11A-MM	KB11 MAINTENANCE MANUAL				
5	2002-20175-4526	PDP11 PERIPHERALS HANDBOOK				
6	67-00473-2743	11/45 PROCESSOR HANDBOOK				
7	ZR001-RB	SYSTEM SOFTWARE KIT				
8	MAINDEC-11-DZOMB-D	MEMORY 0-124 DIAGNOSTIC				
9	MAINDEC-11-DZOMB-PB	MEMORY 0-124 DIAGNOSTIC				
10	MAINDEC-11-DZMMJ-D	8K SPECIAL DIAGNOSTIC				
11	MAINDEC-11-DZMMJ-PR	3K SPECIAL DIAGNOSTIC				
12	MAINDEC-11-DCMFA-D	MOS-CORE PARITY DIAGNOSTIC				
13	MAINDEC-11-ICMFA-PR	MOS-CORE PARITY DIAGNOSTIC				
14	EK-MS11-PA	MS11 MAINTENANCE MANUAL				
15	EK-MF11U-K	MF11-U/UP MAINTENANCE MANUAL				
16	EK-KF11C-TM	KT11 MAINTENANCE MANUAL				
17	ZR104-RB	KT11 SOFTWARE KIT				
18	ZJ135-RB	DL11 SOFTWARE KIT				
19	EK-DL11-TM	DL11 MANUAL				
20	EK-3M873-TM	BM873 LOADER, MANUAL				
21	ZJJ06-RB	BM873 SOFTWARE KIT				
22	ZJJ37-RB	W11-L, LINE CLOCK SOFTWARE KIT				

TITLE SHIPPING LIST 11/55

DEC FORM DEC 16 (25) 1031 NS70
DRA 110

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY MAT GAIGE
DATE 8 MAR 76
ENG *David Bowen*
DATE 12 MAR 76

CHECKED D. HEALY
DATE 9 MAR 76
PROD *D. Bowen*
DATE 12 MAR 76

SECTION 1
ISSUED SECT. 1

ITEM NO	DWG NO. / PART NO.	DESCRIPTION	SIZE CODE	NUMBER	REV	ECO NO
23	EK-KW11L-TM	KT11 MAINTENANCE MANUAL				
24	7008855	POWER CABLE, SYSTEMS UNIT				
25	9007221	AGC 5A FUSE				
26	9007226	AGC 15A FUSE				
27	5009039	2/10A S B FUSE				
28		H960-C CAB FILTER				
29		CONSOLE KEY				
30		LOG BOOK				
31		PDP11 INSTRUCTION CARD				
32	EK-DL11-W-MM	DL11-W MAINTENANCE MANUAL				
33	EK-M9301-MM	M9301-YB MAINTENANCE MANUAL				
34	CZYM9A--	M9301-YB SOFTWARE KIT				

TITLE SHIPPING LIST 11/55

DEC FORM DEC 16 (25) 1031 NS70
DRA 110

CUSTOMER PRINT SET					CUSTOMER PRINT SET				
NO.	REV	DRAWING NO.	NO OF SHT	OPTION NO./FILE DATE	NO.	REV	DRAWING NO.	NO OF SHT	OPTION NO./FILE DATE
1		B-AR-11T55-0-0	3	STANDARD SYSTEM 11T55					
		A-PL-11T55-0-1	1	SHIPPING LIST 11T55					
2		B-DD-11/55-0	6	BASIC BASIC ASSY PDP11/55					
3		B-DD-FP11-C	2	FLOATING POINT PROCESSOR FP11-C					
4		B-DD-RK11-D	4	DISK DRIVE & CONTROL RK11J					
5		B-DD-RK05J-0	5	DISK DRIVE RK05J					
6		D-IA-7409271-0-0		CONSOLE PANEL 11T55					
		C-SS-7009271-0-13		SILK SCREEN					
		C-SS-7009271-0-14		SILK SCREEN					
		C-SS-7009271-0-15		SILK SCREEN					
		C-SS-7009271-0-16		SILK SCREEN					
		C-SS-7009271-0-17		SILK SCREEN					
		C-SS-7009271-0-12		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 STANDARD SYSTEM 11T55
SHEET 2 OF 2
SIZE CODE B DD
NUMBER 11T55-0
REV

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B AR 11T55-0-0

2

1

ENG. *Juell Brown* 18 MAR 76
 CHK. *D. Hoag* 8 MAR 76
 MKY. *Juell Brown* 17 MAR 76
 PWD. *S. Barnhart* 18 MAR 76
 FILED *PAUL GARDNER* 18 MAR 76

FIRST USED ON

digital

TITLE

STANDARD SYSTEM 11T55

NEXT HIGHER ASSY.

B-DD-11T55-0

SCALE *1/1*

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SIZE

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CODE

B AR

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ARRANGEMENT GUIDELINES

NOTES:

1. FOR MODULE PLACEMENT INFORMATION REFER TO E-MU-KB11-D-1, A-SP-FP11-C-5, D-MF11-U-MU, and D-MU-RK11-D-1.

VARIATIONS OF 11T55

11T55-BA	=	115V, 60 HZ
11T55-BB	=	230V, 50 HZ
11T55-BC	=	115V, 60 HZ
11T55-BD	=	230V, 50 HZ

2. AIR FLOW RESTRICTIONS:

NO FULL DEPTH OPTION WILL BE INSTALLED ABOVE THE 11/55 CPU BOX; ONLY SEMI-DEPTH OPTION (PCØ5, RXØ1, TU56, etc.) CAN BE INSTALLED ONLY IF THERE IS A MINIMUM OF 5 INCHES BETWEEN THE TOP OF CPU BOX AND THE OPTION.

3. NO NON-PARITY MEMORY WILL BE INSTALLED IN ANY 11/55 SYSTEM.

REVISIONS	
CHK	CHANGE NO. REV.

TITLE STANDARD SYSTEM 11T55

SCALE $\frac{1}{4}$

SHEET 2 OF 3

SIZE CODE B AR DIST.

NUMBER 11T55-Ø-Ø

REV.

