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D-AD-7021028-0-0	DN20F MA/MC MECH ASSY
D-UA-DN20F-0-0	SYNC. COMM. SUB-SYSTEM
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D-AD-7014211-0-0	RUGGEDIZED UNIBUS CABLE
C-UA-BC03U-0-0	BC03U I/O CABLE
D-AD-7014002-0-0	INTERNAL UNIBUS CABLE ASSY (I/O BAY)
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E-IA-7021174-0-0	HARNESS DTE REMOTE ADAPTOR #2
E-IA-7020843-0-0	CABLE DTE REMOTE
E-IA-7021033-0-0	HARNESS DTE REMOTE ADAPTOR #1
MP00190	11/34A F.M.P.S
MP00575	H7850 F.M.P.S.
MP00014	H775 F.M.P.S.

NOTE: THE FOLLOWING ITEMS OF DOCUMENTATION ARE LISTED FOR REFERENCE ONLY AND ARE NOT PART OF THIS PRINT SET.

MP00339	FIELD MAINT. PRINT SET (KMC11)
MP00911	FIELD MAINT. PRINT SET (DMR11)
MPDUP11	FIELD MAINT. PRINT SET (DUP11)

UNIT VARIATIONS COVERED BY THIS PRINT SET
DN20F-MA
DN20F-MC
DN20F-BA
DN20F-BB

DN20F

FIELD MAINTENANCE PRINT SET

DIGITAL EQUIPMENT CORPORATION

PRINT SET PART NUMBER MP01712-00

REVISION HISTORY		
REV.	ECO NUMBER	DATE
A	RELEASED	

DRN. G. FLANDERS	DATE 27MAR84	TITLE digital
CHK'D J. DONAHER	DATE 28MAR84	SYNC. COMM. SUB-SYSTEM
DES. ENG. K SULLIVAN	DATE 17APR84	
RESP. ENG. R SCOTT	DATE 17APR84	
FIELD SERVICE JOE SWEENEY	DATE 17APR84	
TOP DOC. B-DD-DN20F-0-DBU		

SIZE	CODE	NUMBER	REV.
B	TC	DN20F-0-1	A

SHEET 1 OF 1

MRO

REV. A

NUMBER DN20F-0-1

SIZE B CODE TC

START

INSTRUCTIONS

1) DEFINE THE REQUIRED SYSTEM CAPABILTY AS FOLLOWS:

A) DETERMINE THE NUMBER OF LOW SPEED SYNC (2.4K-19.2K BPS CCITT V.24RS232-C) LINES REQUIRED.

B) DETERMINE THE NUMBER OF REMOTE HIGH SPEED SYNC (56K BPS CCITT V.35/DDS) LINES REQUIRED.

C) DETERMINE THE NUMBER OF LOCAL HIGH SPEED SYNC. (56K BPS OR 1M BPS) INTEGRAL MODEM LINES REQUIRED.

NOTE:

THIS CHART IS A DN20F XX HARDWARE CONFIGURATOR ONLY. CURRENTLY, NEITHER TOPS-10 NOR TOPS-20 SOFTWARE IS CAPABLE OF DRIVING A FULLY CONFIGURED SYSTEM. CONSIDER ALL SOFTWARE RESTRICTIONS BEFORE USING THIS CONFIGURATOR.

IS EXECUTIVE A TOPS-20 OPERATING SYSTEM? (KL10 ONLY)

YES

NO

SYSTEM REQUIRES THE FOLLOWING BASIC OPTIONS

QTY	OPTION
1	DN20F-MA

A

IS EXECUTIVE A TOPS-10 OPERATING SYSTEM? (1091 ONLY)

YES

NO

QTY	OPTION
1	DN20F-MC

EXIT HERE INDICATES NO REQ'MENTS FOR A DN2X-DNHXX SUBSYSTEM

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REVISIONS

CHK	CHANGE NO.	REV.

digital

DRN. ROGER G. DAME | DATE 14-MAR-84 | ENG. | DATE

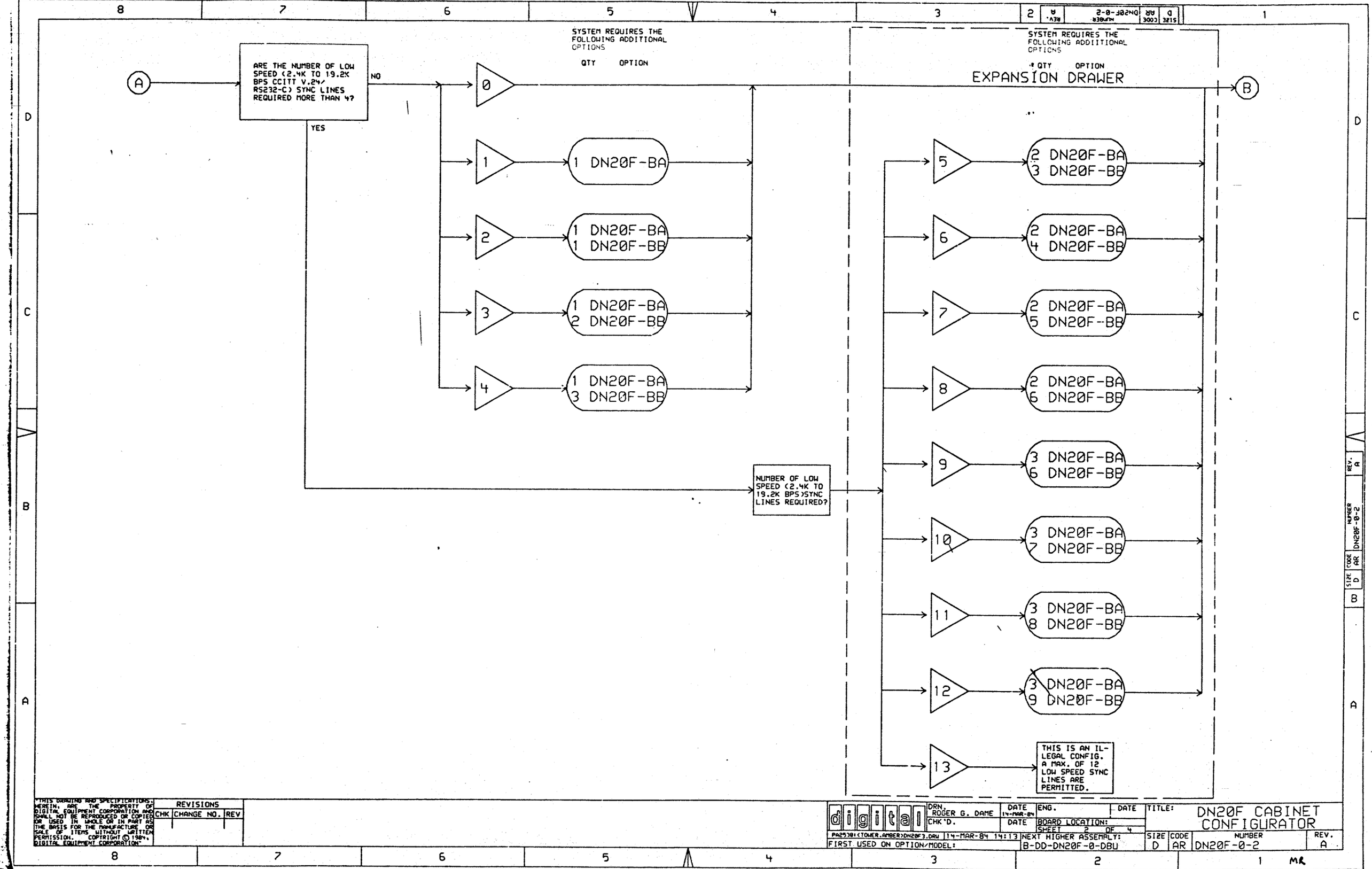
CHK D. | DATE | BOARD LOCATION: | SHEET 1 OF 4

PA2530:<TOWER.AMBER>DN20F2.DRW | 14-MAR-84 14:13 | NEXT HIGHER ASSEMBLY: B-DD-DN20F-0-DBU

FIRST USED ON OPTION/MODEL:

TITLE: DN20F CABINET CONFIGURATOR

SIZE	CODE	NUMBER	REV.
D	AR	DN20F-0-2	A



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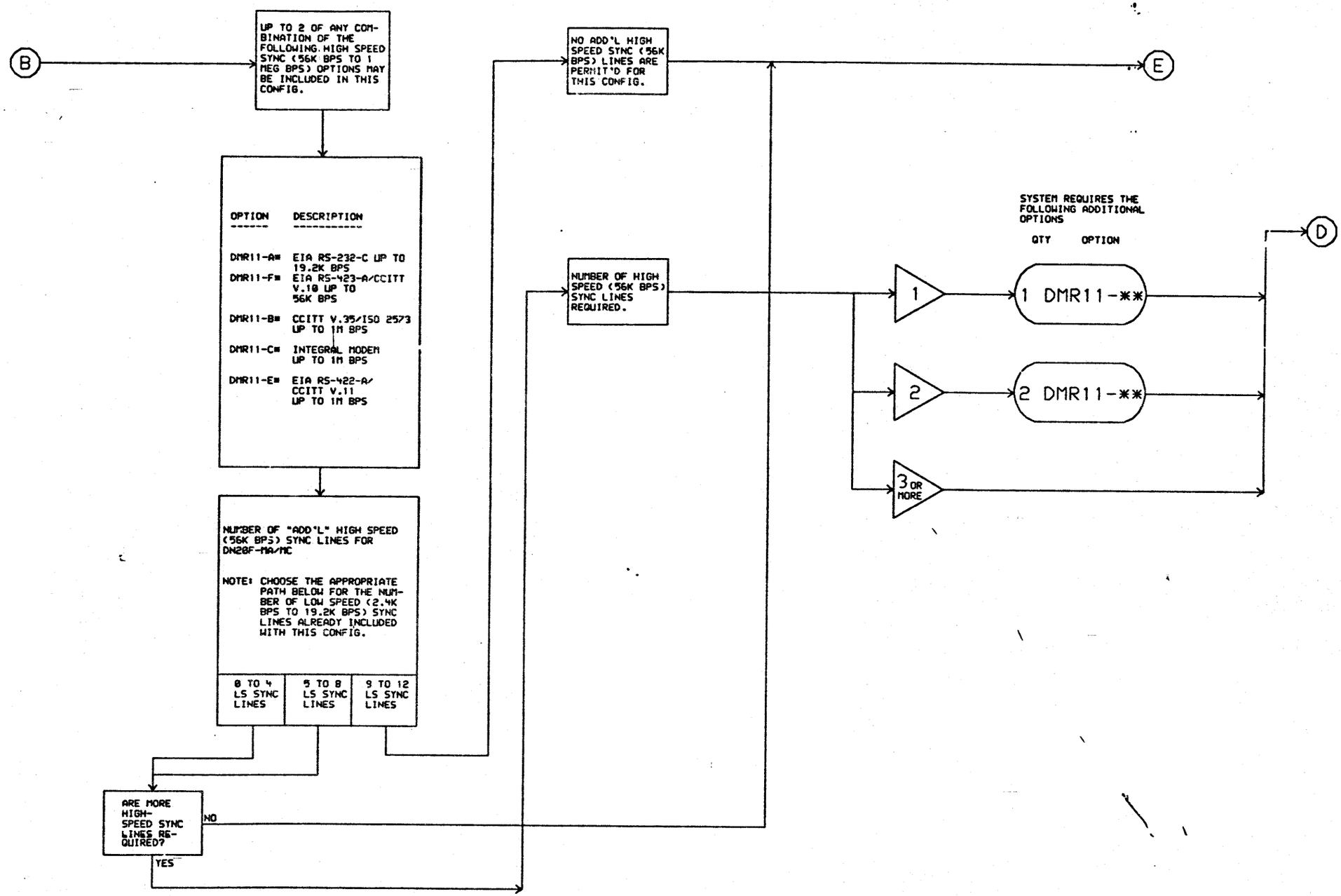
REVISIONS		
CHK	CHANGE NO.	REV

digital	DRN. ROGER G. DAME	DATE 14-MAR-84	ENG. DATE
	CHK D.	DATE	BOARD LOCATION:
			SHEET 2 OF 4
PA2530:<TOWER.AMBER>DN20F3.DRW 14-MAR-84 14:13			NEXT HIGHER ASSEMBLY: B-DD-DN20F-0-DBU
FIRST USED ON OPTION/MODEL:			

TITLE: DN20F CABINET CONFIGURATOR

SIZE	CODE	NUMBER	REV.
D	AR	DN20F-0-2	A

MR



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REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. ROGER G. DAME | DATE 14-MAR-84 | ENG. | DATE

CHK'D. | DATE | BOARD LOCATION: | SHEET 3 OF 4

PA2530:<TOWER.AMBER>DN20F4.DRW | 14-MAR-84 14:14 | NEXT HIGHER ASSEMBLY: B-DD-DN20F-0-DBU

FIRST USED ON OPTION/MODEL:

TITLE: DN20F CABINET CONFIGURATOR

SIZE	CODE	NUMBER	REV.
D	AR	DN20F-0-2	A

MR

(D)

0 - 4
LS SYNC
LINES

5 - 8
LS SYNC
LINES

(E)

UP TO 2 ADD'L HIGH-SPEED SYNC (56K BPS OPTIONS MAY BE INCLUDED IN THIS CONFIG ANY COMBINATION OF THE FOLLOWING OPTIONS IS ACCEPTABLE.

(E)

OPTION	DESCRIPTION
DMR11-A=	EIA RS-232-C (UP TO 19.2K) EIA
DMR11-F=	RS-423-A (UP TO 56K) CCITT V.10 (UP TO 56K)
DMR11-B=	CCITT V.35 (UP TO 1M) ISO 2573 (UP TO 1M)
DMR11-C=	INTEGRAL MODEM (UP TO 1M)
DMR11-E=	EIA RS-422-A (UP TO 1M) CCITT V.11 (UP TO 1M)

END

EXPANSION DRAWER

3 — A B C E F

4 — A B C E F

5

6

THIS IS AN ILLEGAL CONFIG MAX 4 HIGH SPEED SYNC LINES PRINTED

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REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. ROGER G. DAME | DATE 14-MAR-84 | ENG. | DATE

CHK'D. | DATE | BOARD LOCATION: | SHEET 4 OF 4

PA2930(CTOWER.AMBER)DN20F9.DAV | 14-MAR-84 14:14 | NEXT HIGHER ASSEMBLY: B-DD-DN20F-0-DBU

FIRST USED ON OPTION/MODEL:

TITLE: DN20F CABINET CONFIGURATOR

SIZE	CODE	NUMBER	REV.
D	AR	DN20F-0-2	A

MR

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION 01
					VARIATION REVISION LEVEL:	A1
1	1	E-AD-7019030-0-DBU	7019030-00		FRAME ASSY, SINGLE	1
2	2	D-UA-11/34-0-0	1134A-XX		KD11-EA,DL11-W,BA11-KA,H765-P,2	1
3	3	D-AD-7014173-0-0	7014173-00		EXPANSION DRAWER ASSY. 60HZ	1
4	4	D-AD-7021027-0-0	7021027-01		POWER CONTROL 3 PH (861 REWORK)	1
5	5	D-IA-7021176-0-DBU	7021176-01		BULKHEAD WELDMENT	1
6	6	E-UA-H775-0-0	H775 -A		24V 2 HR BATTERY BACKUP W CHARGE	1
7	7	D-IA-7418098-0-0	7418098-00		RETAINER BRACKET	6
8	8	D-MD-7418097-0-0	7418097-00	A	BRACKET CAGE 1	1
9	9	D-IA-7011223-0-0	7011223-02		BASKET WIRE CABLE 1 BAY	5
10	10		9006565-00	C	NUT,HEX EXT TOOTH LCKWSHR 10-32	4
11	11		9007651-00	B	WASHER,LOCK EXTERNAL STEEL	1
12	12		9007786-00	F	RETAINER,U-NUT 10-32X	42
13	13	D-IA-7429126-0-DBU	7429126-01	A	BRACKET,SUPPORT	1
14	14	E-MD-7414087-0-0	7414087-00		ARM STABILIZER	2
15	15		9000022-01		FOOT, LEVELER, CUSHION, 1/2-13,	2
16	16		3615810-00		LABEL,ADHESIVE BACK,CAUTION STAB	1
17	17	BLANK				0
18	18		9007772-11	B	CLAMP,CABLE	3
19	19		9006039-02	A	SCREW,MACH FLAT PHIL 8-	3
20	20		3622339-01	A	LABEL,DN20F BULKHEAD SET	1
21	21	A-DC-7418579-0-0	7418579-00		DECAL	1
22	22	D-IA-7417662-0-0	7417662-00		BEZEL	1
23	23	D-MD-7417663-0-0	7417663-00	A	PLATE BEZEL	1
24	24	A-PL-DD11-0-0	DD11 -CK		BACK PLANE ASSY	1
25	25	A-PL-DD11-0-0	DD11 -DK		BACK PLANE ASSY	1
26	26	D-CS-M9306-0-1	M9306-00		UNIBUS TERMINATOR 11A05	1
27	27		9006043-01	A	SCREW,MACH PAN PHIL 8-	2
28	28	SEE NOTE 1			STICKER "CONFIGURATION"	1
29	29		1213246-00	B	FILTER,AIR FOAM 030PPI	1
30	30		1211825-02	P	SLIDE,CHASSIS TILT 3POSITION	1

REVISION HISTORY			BASIC PART NO: 7021028			
ENG	ECO NUMBER	REV	SECTION A OF A	DRN: J. F. BROWN	DATE: 12 AUG 83	DIGITAL
---	INITIAL	A	SECTION.VARIATION INDEX	CHK'D: JOE DONAHER	DATE: 17 APR 84	TITLE PARTS LIST DN20F MECH. ASSY
			[A]01			DOCUMENT NUMBER
			[B]	DES.ENG: K. SULLIVAN	DATE: 17 APR 84	SIZE: K; CODE: PL; NUMBER: 7021028-0-DBP; REV: A
			[C]			
			[D]	RESP.ENG.: R. SCOTT	DATE: 17 APR 84	
			[E]			
			[F]	MFG.ENG.: J. SANNACANDRO	DATE: 17 APR 84	RELEASE DATE: 19-APR-84
				ASSEMBLY NUMBER: D-AD-7021028-0-DBU	TOP DOCUMENT NUMBER: D-AD-7021028-0-DBU	FILE NAME: Z7439A.PLS; EDIT #: 36

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mr

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION 01
					VARIATION REVISION LEVEL:	A1
31	31		9006666-00	A	WASHER,FLAT SST	7
32	32		9007773-00	A	NUT,HEX SLF-LOCK NYL INS 8-32	7
33	33		9008007-03	A	SCREW,MACH TRUSS PHIL 10-	10
34	34		9006635-00	A	WASHER,LOCK INTERNAL STEEL	10
35	35	D-MD-7430163-0-DBU	7430163-01		PANEL,BULKHEAD (RTO)	1
36	36		9007036-00	B	GROMMET,CATERPILLAR POLYAMIDE	A/R
37	37		9007594-00	A	ADHESIVE,NEOPRENE	A/R
38	38		9008825-00	A	SPACER,CLEAR HOLE HEX ALUM 10	12
39	39		9006020-03	A	SCREW,MACH TRUSS PHIL 6-	1
40	40		9006633-00	A	WASHER,LOCK INTERNAL STEEL	1
41	41	B-DD-MS11-L	MS11 -LD		MS11-LD 128K 18 BIT MOS MEM W PA	1
42	42	E-UA-H7850-0-0	H7850-00		BATTERY BACK-UP REG	1
43	43	D-IA-7011411-0-0	7011411-2J		CABLE, KY11 CONSOLE	1
44	44	C-IA-7013676-0-0	7013676-00		CABLE AC/DC	1
45	45	C-IA-7013059-0-0	7013059-08		STRAPGROUND	1
46	46		9006724-00	A	WASHER,LOCK EXTERNAL STEEL	1
47	47		9008203-00	A	NUT,HEX EXT TOOTH LCKWSHR 1/4-20	1
48	48		3613272-00	B	LABEL,ADH BACK,MYLAR CAP	1
49	49		9009700-00	A	SCREW,SEMS TRUSS PHIL 10-	112
50	50	D-IA-7426407-0-DBU	7426407-01	A	PANEL,SUB,DOUBLE	16
51	51	D-AD-7019605-0-0	7019605-12		GASKET ASSY.	4
52	52	D-AD-7019605-0-0	7019605-16		GASKET ASSY.	2
53	53		1221535-01	A	CLIP,NYLON FOR RF GASKET	65
54	54	C-MD-7413659-0-0	7413659-00		BRACKET SHIPPING	4
55	55		9006014-01	A	SCREW,MACH PAN PHIL 4-	4
56	56		9006557-00	A	NUT,HEX EXT TOOTH LCKWSHR 4-40	4
57	57		1219534-01		SCREW, CAPTV SLOT 4-	34
58	58	BLANK				0
59	59	D-AD-7019605-0-0	7019605-24		GASKET ASSY.	2
60	60	C-MD-7430162-0-DBU	7430162-01	A	BAR,LEG LOCK	2
61	61	C-IA-7416523-0-0	7416523-00	A	BRKT GUIDE	2

62 NOTE: 1. PART NUMBER FOR ITEM 28 IS DEC-3-(374)1825-N1174

DIGITAL	TITLE: DN20F MECH. ASSY	SECTION A OF A	SIZE: K	CODE: PL	DOCUMENT NUMBER: 7021028-0-DBP	REV: A

MR

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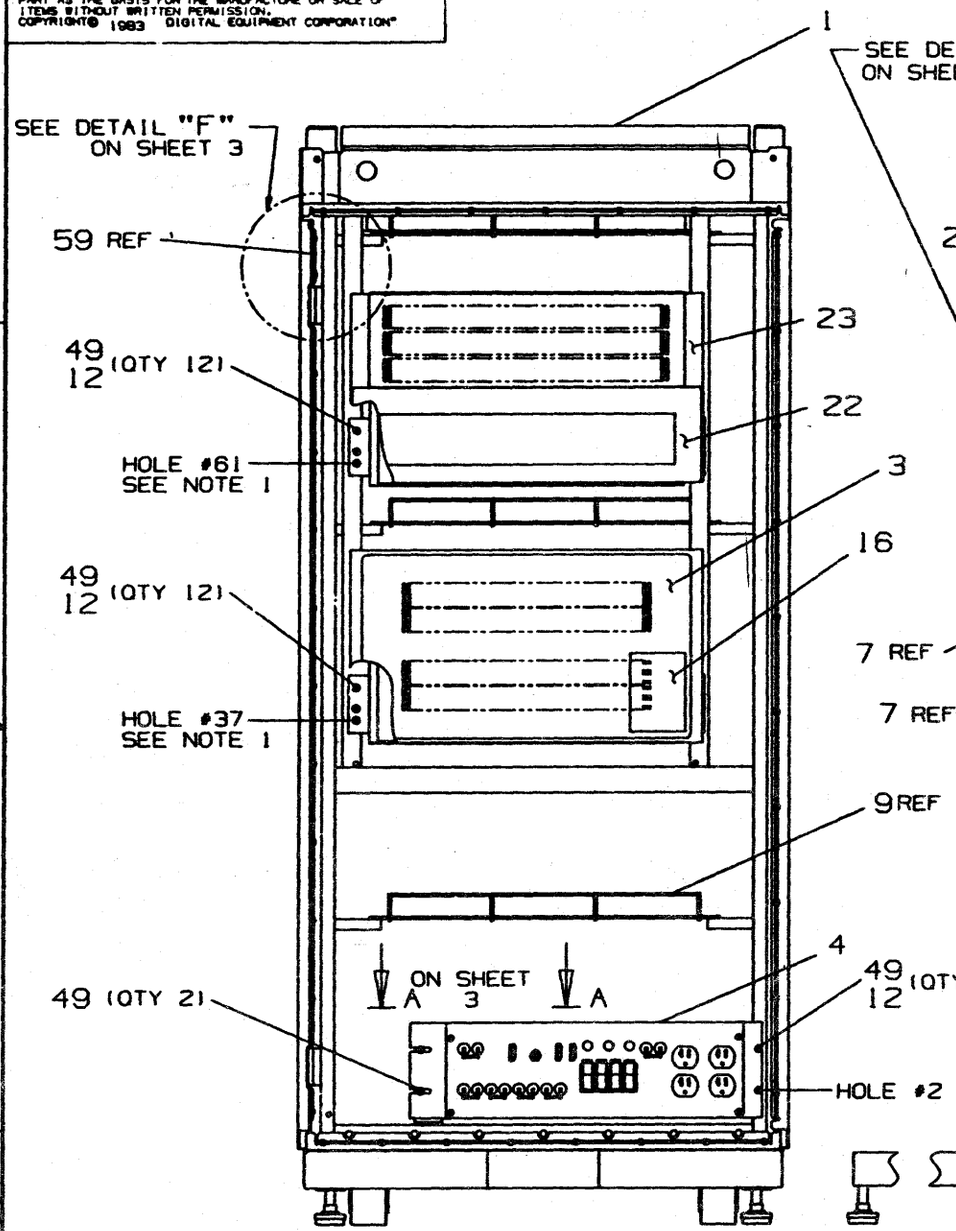
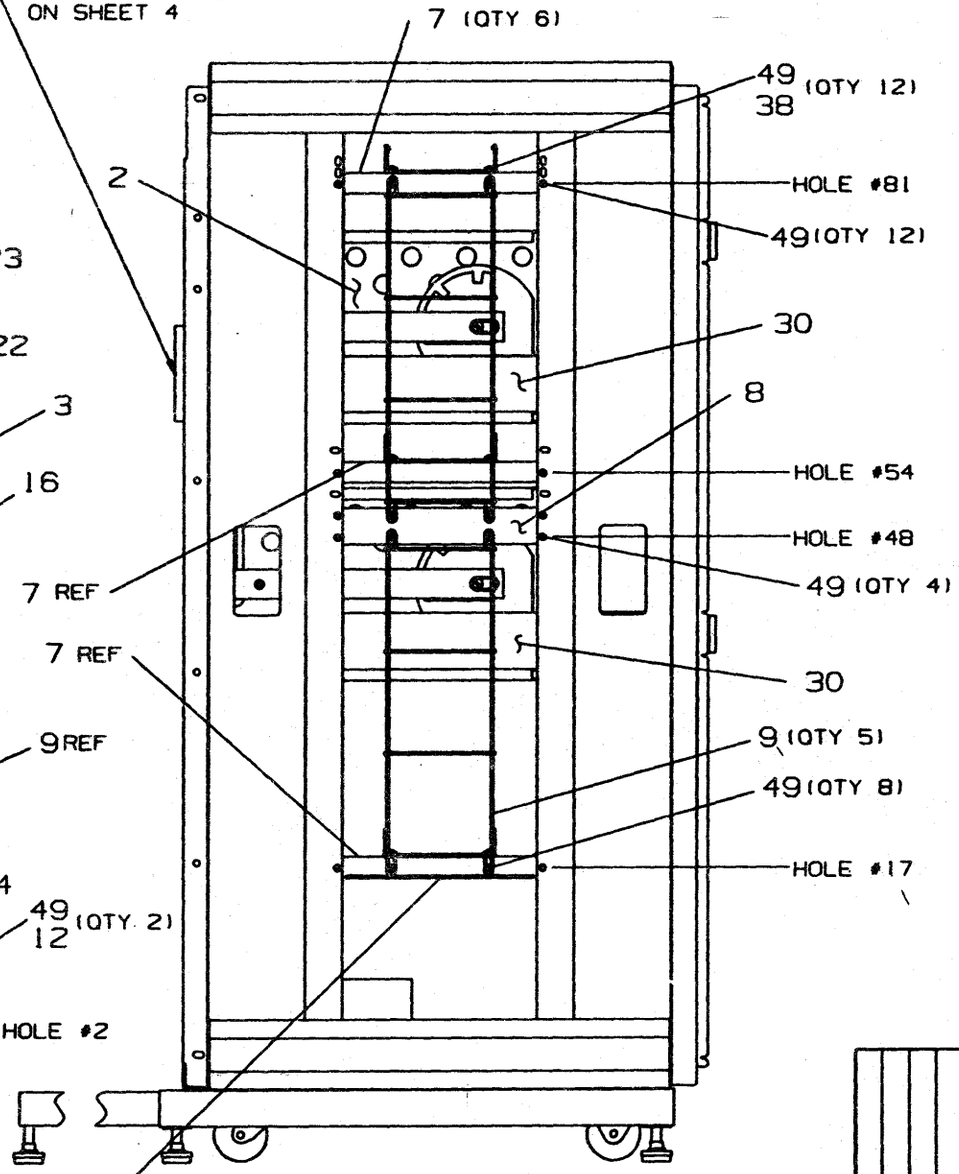
LEGEND		
PART NO.	REV	VARIATION
7021028-01	A1	AS SHOWN



FRONT



RIGHT SIDE

NOTES:

1. HOLE NUMBERS ON INTERNAL VERTICAL RAILS COINCIDE WITH HOLE NUMBERS ON EXTERNAL VERTICAL RAILS. BOTTOM HOLE IS #0.
2. THE BASIC (1134A) DRAWER WILL COME WITH SEVERAL PARTS WHICH MUST BE REMOVED BEFORE IT CAN BE ASSEMBLED AS PER THIS ASSEMBLY DWG THE MOST APPROPRIATE TIME TO REMOVE THESE PARTS IS JUST BEFORE THE MODIFIED 1134A BEZEL IS TO BE INSTALLED.

   THE FOLLOWING PARTS ARE TO BE REMOVED:
   FROM THE 1134 PARTS LIST
   ITEM # 2, 3, 30, 46, 47.

   FROM THE KY11-LB PARTS LIST
   ITEM # 1, & 16.
3. TIGHTEN NYLOK NUTS (ITEM 32) TO 2 IN. LBS.
4. THE SILKSCREEN DECAL (ITEM #21) SHOULD BE MOUNTED IN THE UPPER LEFT CORNER OF THE PROGRAMMERS PANEL SUCH THAT ITS LEFT AND TOP EDGES LINE UP WITH THE LEFT AND TOP EDGES OF THE PROGRAMMERS PANEL. WHEN MOUNTED CORRECTLY THE SILKSCREEN SHOULD COVER ALL WORDING IN THE UPPER LEFT CORNER OF THE PROGRAMMERS PANEL. ONLY THE WORD DIGITAL ON THE SILKSCREEN DECAL SHOULD BE VISABLE.
5. ITEM #39 AND 40 ARE USED TO SECURE THE REGULATOR, H7850 (ITEM #42. SEE SHEET 2 AREA 6C AND SHEET 6 AREA 7B.
6. THE CONSOLE CABLE FROM KY11-LB IS USED ONLY TO CONNECT THE H7850 BATTERY BACK-UP REGULATOR (ITEM #42) IN REGULATOR SLOT #4.

CONTINUED ON SHEET 2

CAUTION: OFF SHEET PARTS LIST EXISTS
SEE K-PL-7021028-0-DBP.

REVISIONS		
OK	CHANGE NO.	REV.
	RELEASED	A

DESCRIPTION	DRAWING NO.	PART NO.	ITEM NO.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 111)

INCHES TOLERANCES	ANGLES ±0° 30'	APPLICABLE DIMENSION RANGE	DIMENSION RANGE IN INCHES
.X ± .1 .XX ± .02 .XXX ± .005	SURFACE QUALITY MICROINCHES		OVER 0 TO 1.2 · OVER 1.2 TO 4.0 · OVER 4.0 TO 12.0 · OVER 12.0 TO 40.0 · OVER 40.0 TO 80.0
			.005 · .005 · .005 · .010 · .010 · .010
			.004 · .008 · .012 · .016 · .020 · .040

FIRST HIGHER ASS'Y: D-UA-DN20F-0-0
QUANTITY & VARIATION

THIRD ANGLE PROJECTION

DO NOT SCALE DRAWING

REMOVE BURRS AND BREAK SHARP CORNERS

MATERIAL SEE PARTS LIST

FINISH NONE

DRN	J. F. BROWN	DATE 7-JUN-83
CHK'D	J. DONAHER	DATE 28-MAR-84
DES. ENG.	K. SULLIVAN	DATE 17 APR 84
RESP. ENG.	R. SCOTT	DATE 17 APR 84
SPEC. ENG.	P DUPONT	DATE 17 APR 84
TOP DOC.	D-AD-7021028-0-0	

TITLE: DN20F-MA/MC MECH. ASSY

DOCUMENT NUMBER: SIZE D · CODE AD · NUMBER 7021028-0-0 · REV. A

SCALE 1/4 · SHEET 1 OF 7

D-AD-7021028-0-0 REV A

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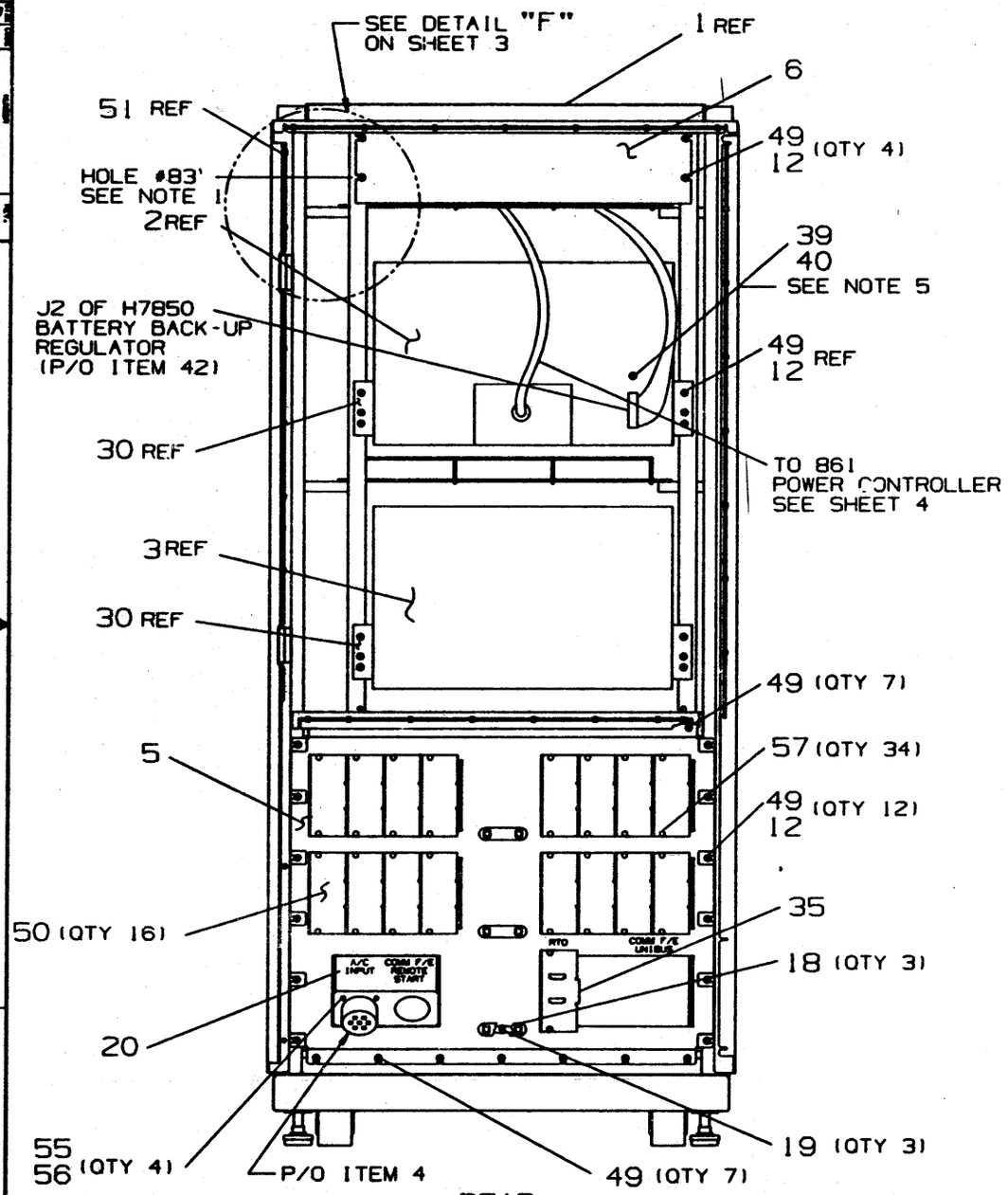
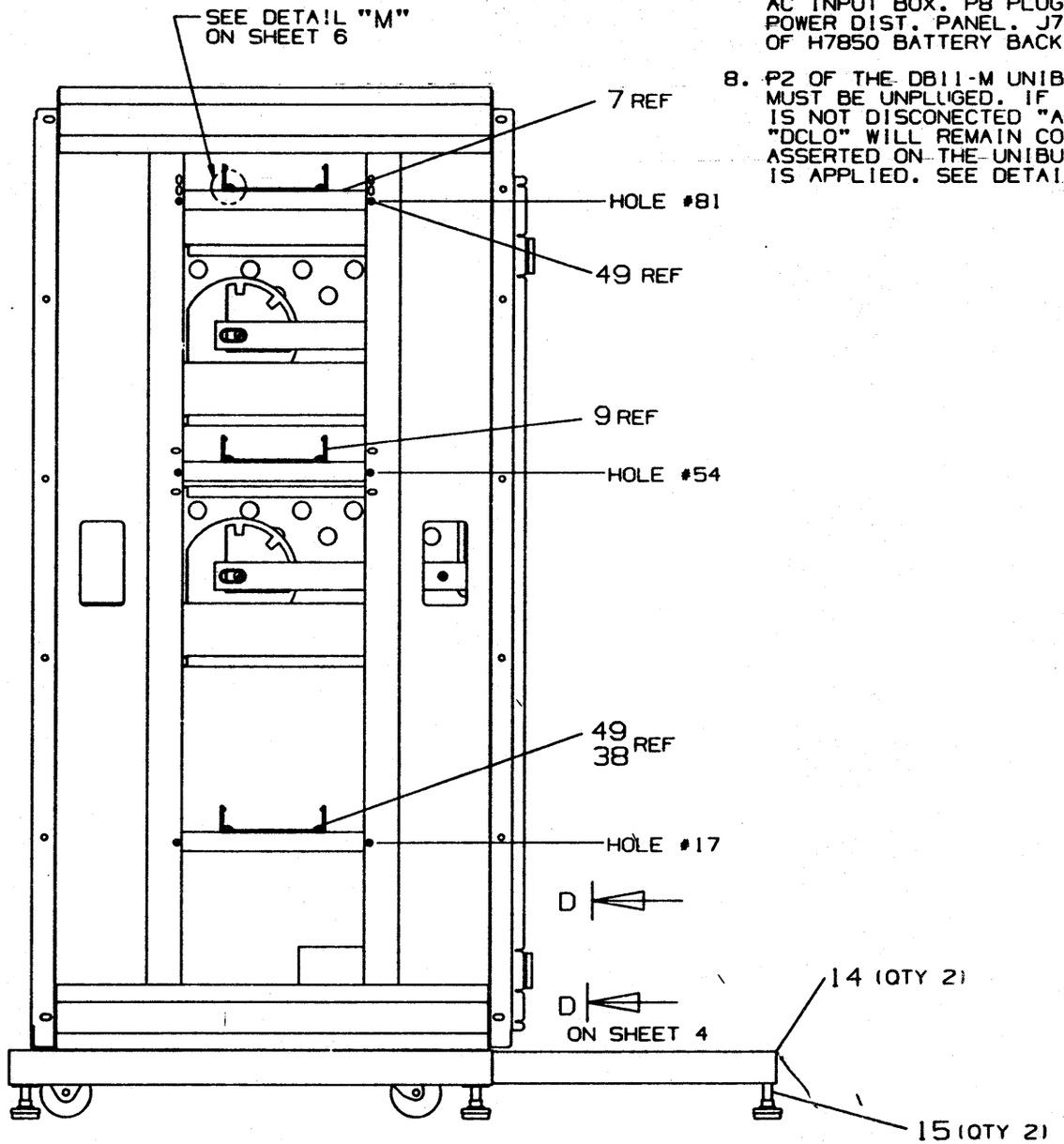


REAR



LEFT SIDE

NOTES:

CONTINUED FROM SHEET 1.

7. AC/DC-LO CABLE P3 PLUGS INTO J3 OF AC INPUT BOX. P8 PLUGS INTO J12 OF POWER DIST. PANEL. J7 PLUGS INTO P7 OF H7850 BATTERY BACK-UP REGULATOR.
8. P2 OF THE DB11-M UNIBUS REPEATER MUST BE UNPLUGED. IF THIS PLUG IS NOT DISCONECTED "ACLO" AND "DCLO" WILL REMAIN CONTINUOUSLY ASSERTED ON THE UNIBUS AFTER POWER IS APPLIED. SEE DETAIL N ON SH. 7.

REVISIONS		
CHK	CHANGE NO	REV

TITLE	DN20F-MA/MC MECH. ASSY	SIZE/CODE D AD	NUMBER 7021028-0-0	REV A
SCALE 1/4	SHEET 2 OF 7	DIST		

MRO

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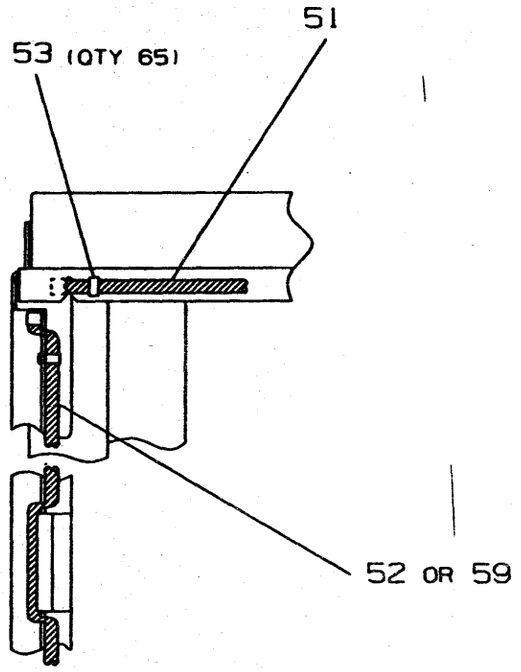
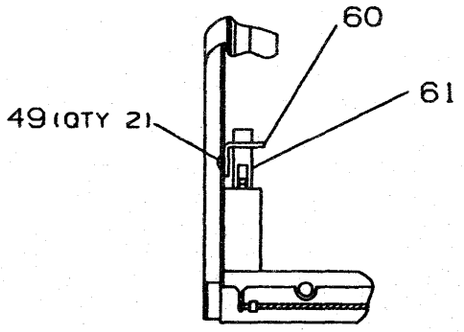
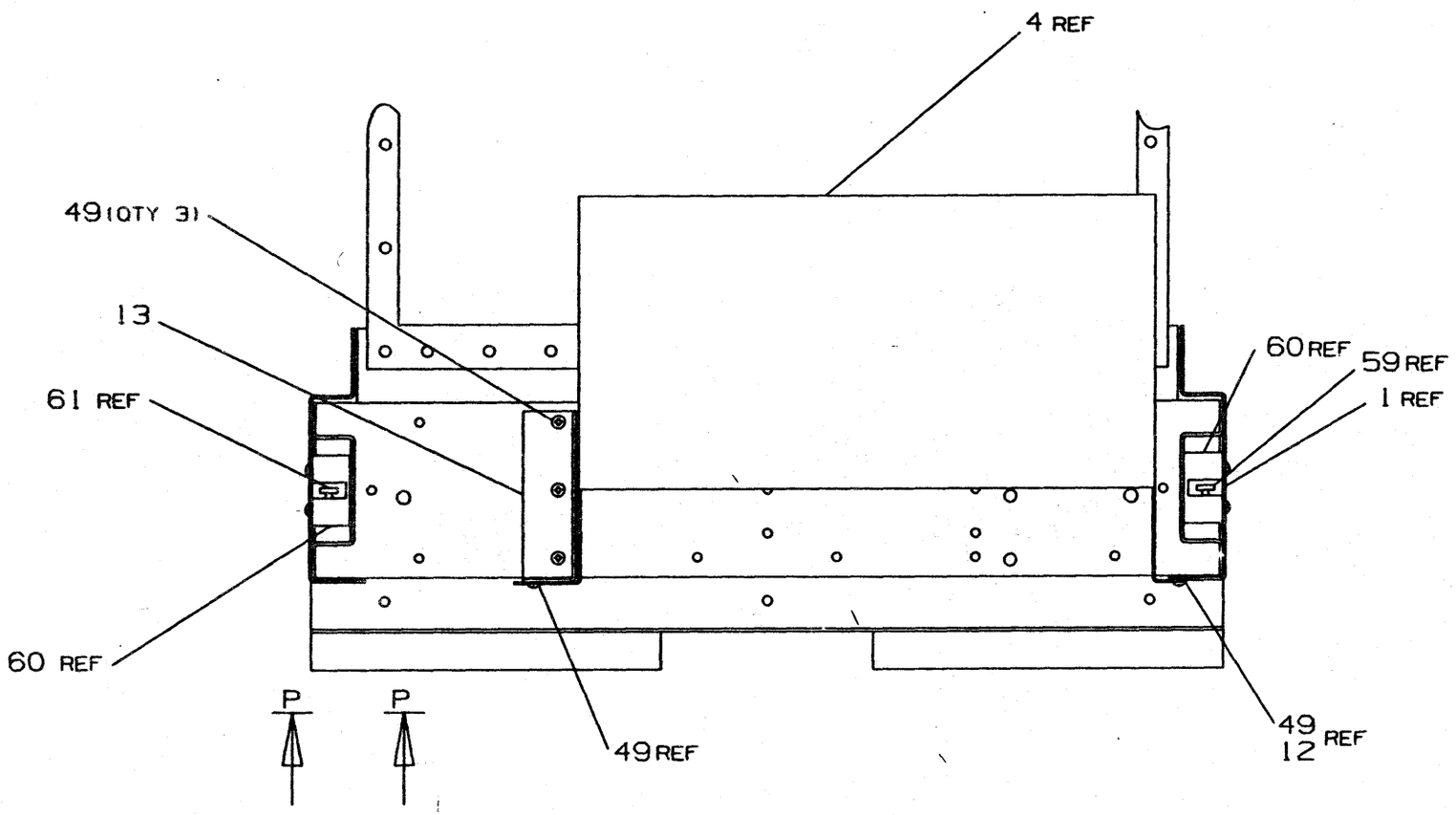


DETAIL "F"
TYP GASKET SCHEME
SCALE: NONE
TYP FRONT & REAR



VIEW "P-P"
SCALE 1/4
TYP 2 PLACES



VIEW "A-A"
SCALE 1/2

REVISIONS		
CHK	CHANGE NO	REV

TITLE	SIZE	CODE	NUMBER	REV
DN20F-MA/MC MECH. ASSY	D	AD	7021028-0-0	A
SCALE NONE	SHEET 3 OF 7		DIST	

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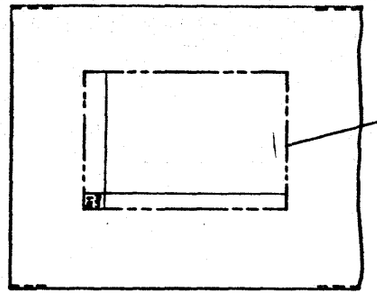
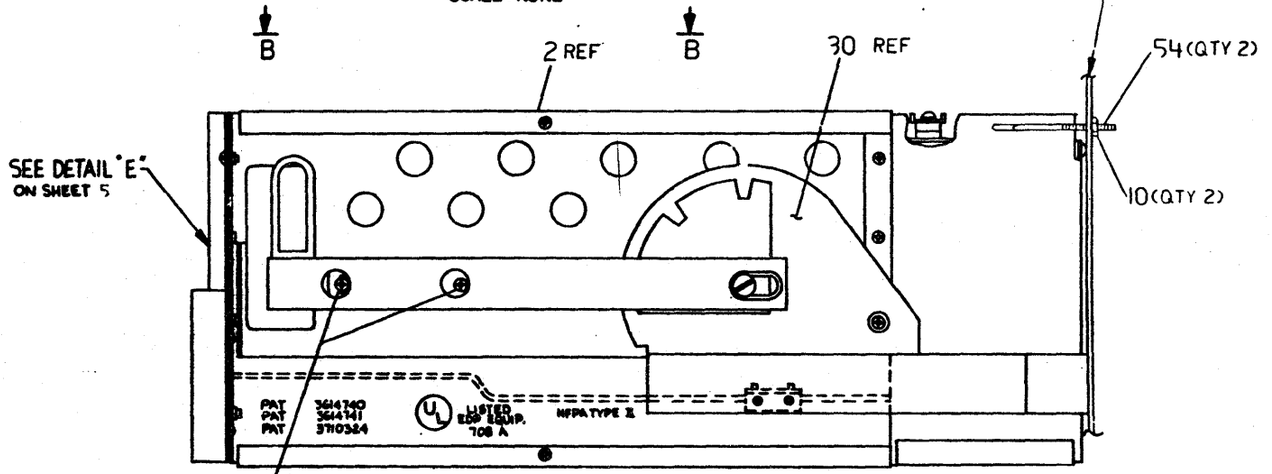
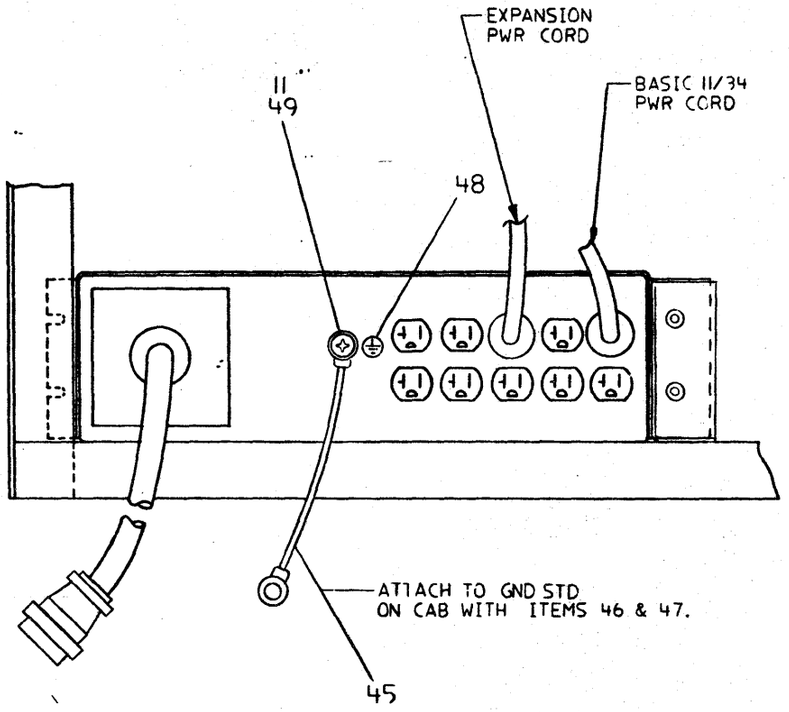


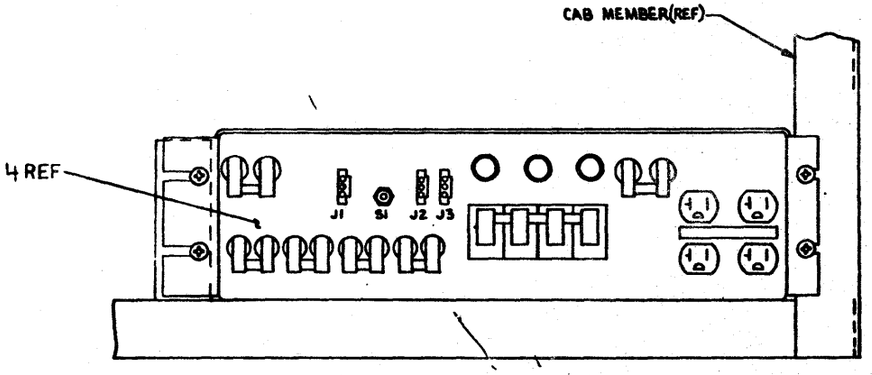
VIEW B-B
(TOP COVER ONLY)
SCALE: NONE



CAB RAIL (REF)
INSTALL SHIPPING BRKT (ITEM 54) AS SHOWN ON BOTH
TO BE USED WHEN DRAWER IS IN CLOSED POSITION FOR SHIPPING.

DETAIL "C"
BASIC DRAWER (1134A)





VIEW D-D

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
DN20F-MA/MC MECH. ASSY	D	AD	7021028-0-0	A
SCALE 1/2	SHEET 4 OF 7		DIST.	

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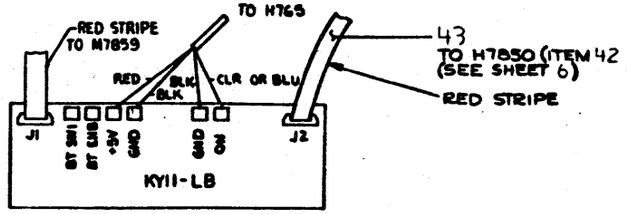

DETAIL "K"
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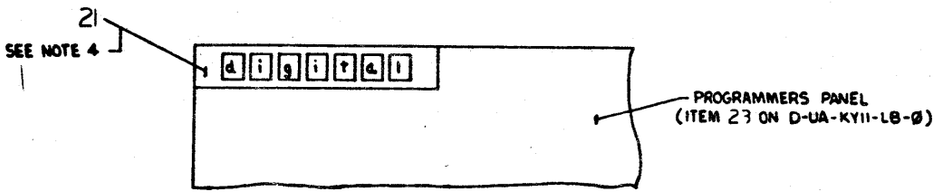
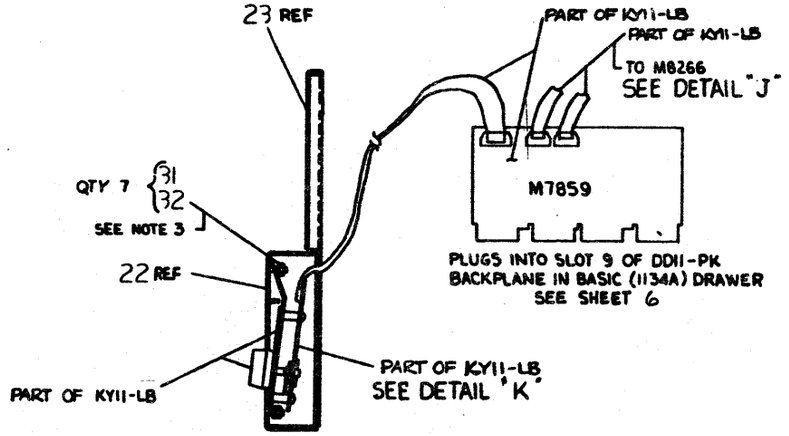
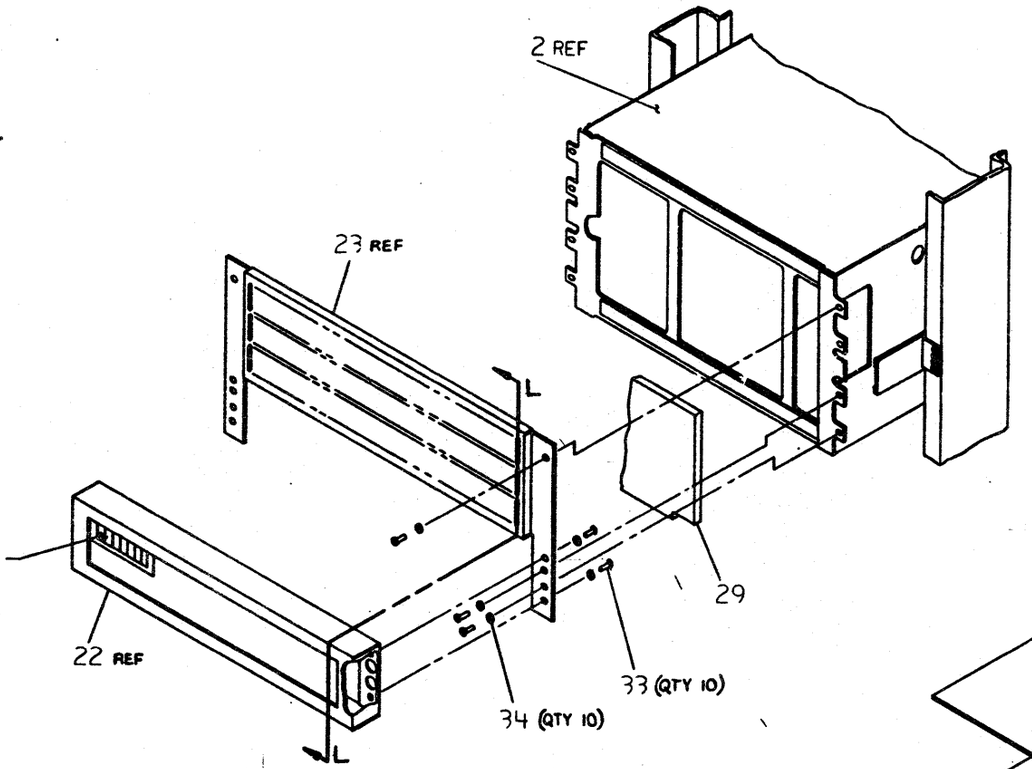


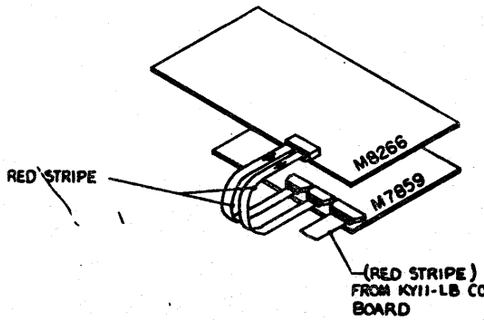
DETAIL "H"
SCALE: NONE



SECTION L-L
SCALE: 1/2
(BEZEL ASSEMBLED BY USING KY11-LB MATERIALS PROVIDED WITH ITEM "2)



DETAIL "E"
SCALE: NONE



DETAIL "J"
SCALE: NONE

BASIC (1134A) DRAWER PROGRAMMER'S PANEL BEZEL ASSY.
SEE NOTE 2

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
DN20F-MA/MC MECH ASSY	D	AD	7021028-0-0	A
SCALE	SHEET 5 OF 7	DIST.		

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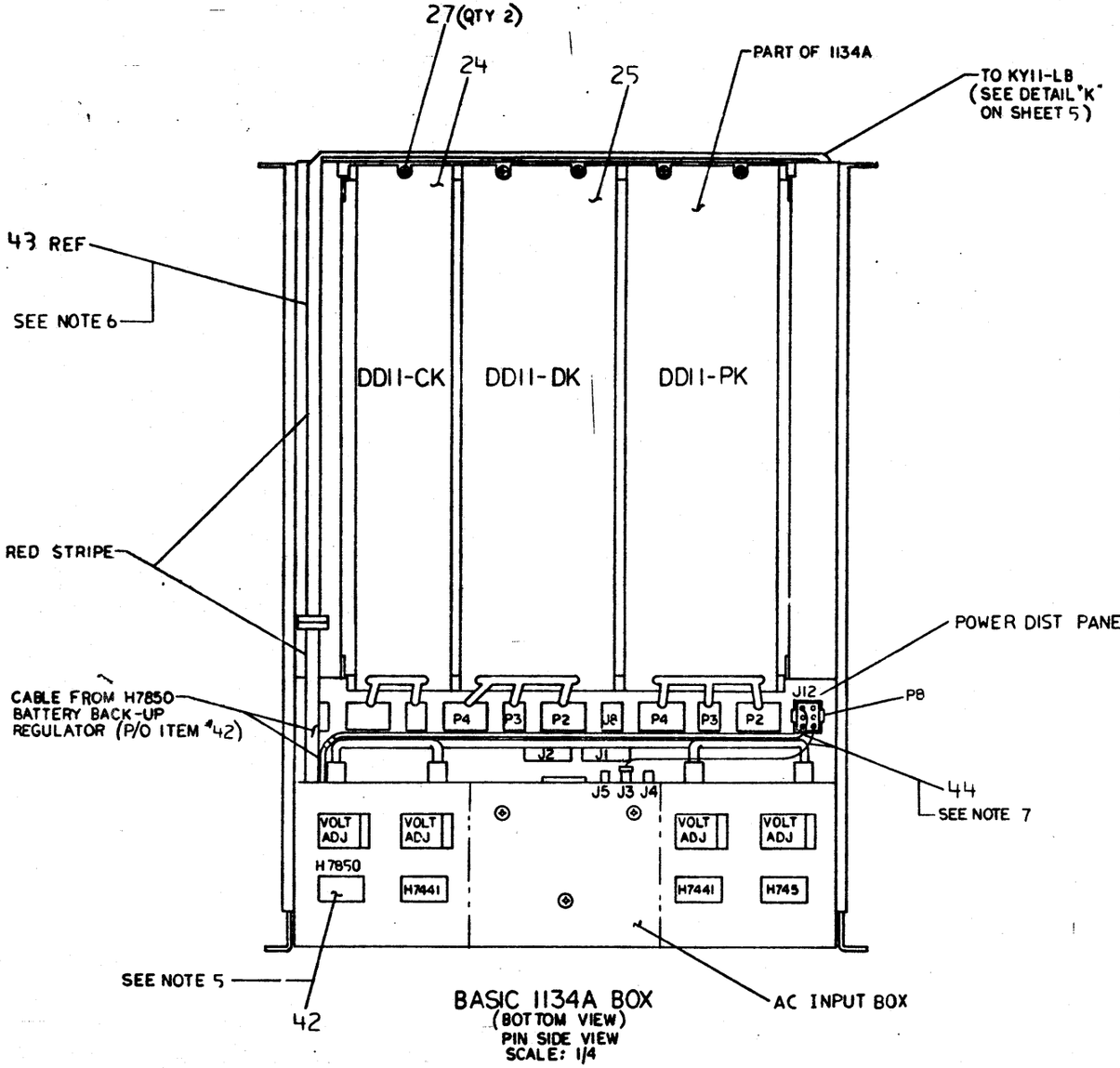
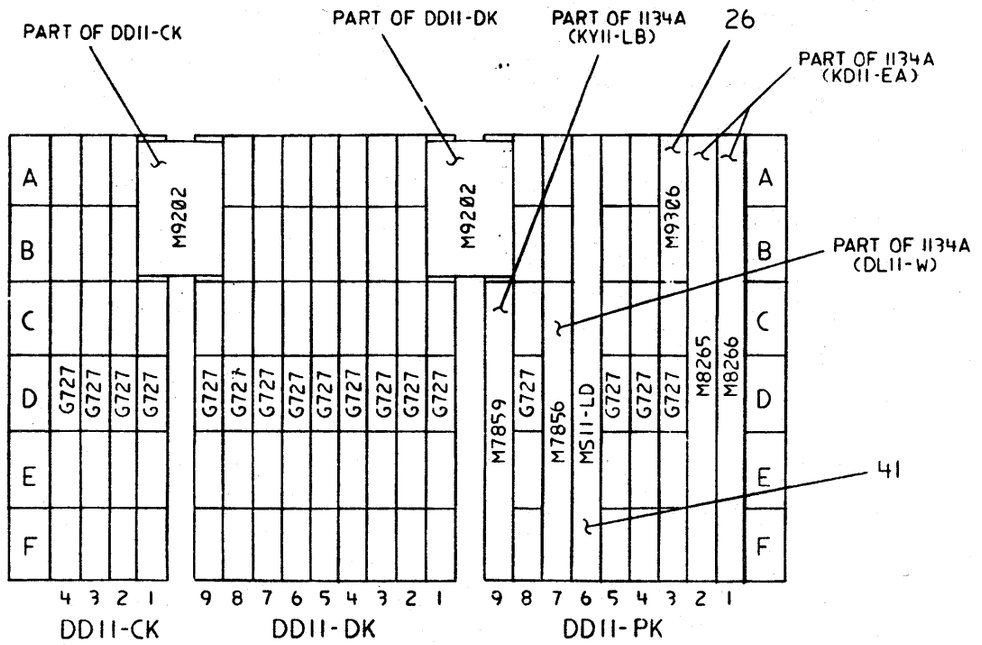
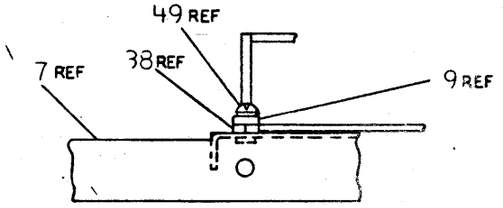


BASIC 1134A BOX
(BOTTOM VIEW)
PIN SIDE VIEW
SCALE: 1/4



MODULE UTILIZATTION
BASIC 1134A DRAWER
(MODULE SIDE)
ITEM 2 REF



DETAIL "M"
SCALE: 1/1

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	DN20F-MA/MC MECH. ASSY			SIZE	CODE / NUMBER / REV.
				D	AD 7021028-0-0 A
SCALE	FULL	SHEET	6 OF 7	DIST.	

7021028-0-0 A
D AD

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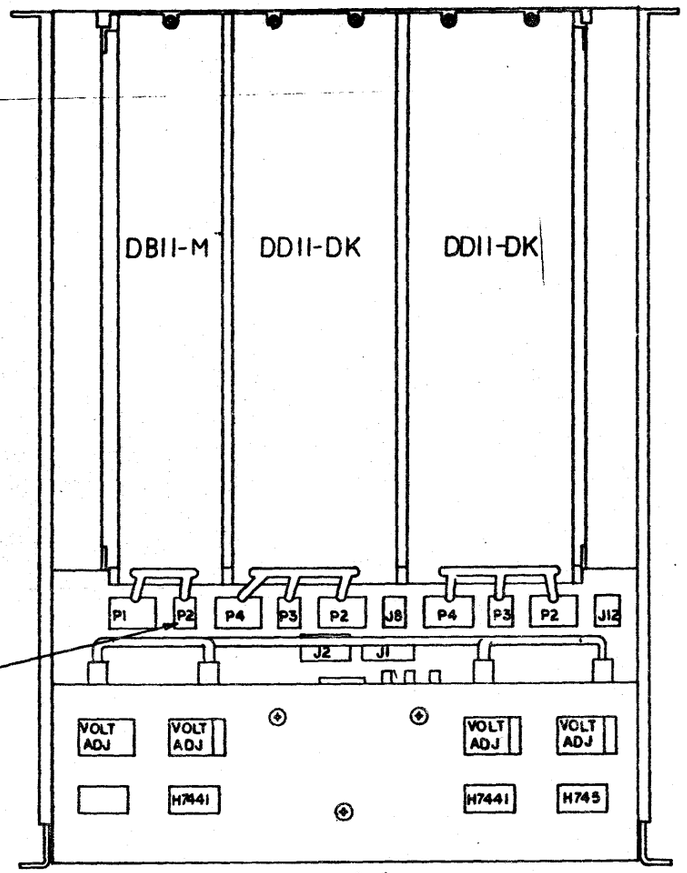
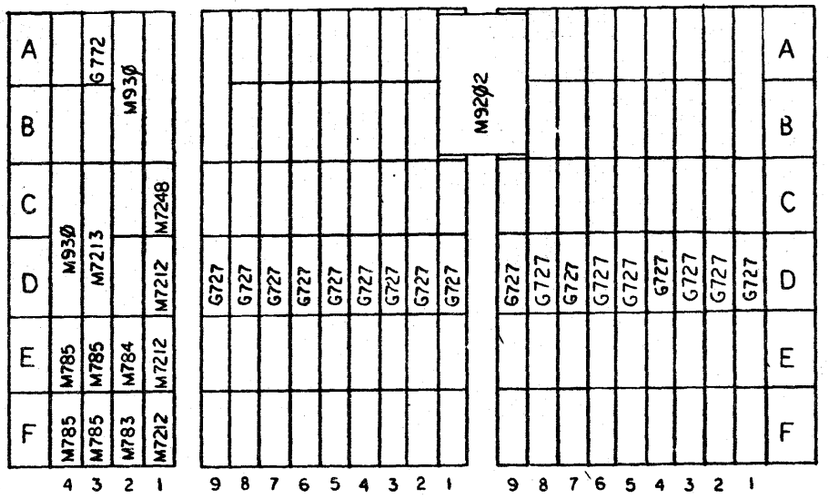


DETAIL "N"
EXPANSION DRAWER
(BOTTOM VIEW)



MODULE UTILIZATION
EXPANSION DRAWER
(MODULE SIDE)
ITEM 3 REF

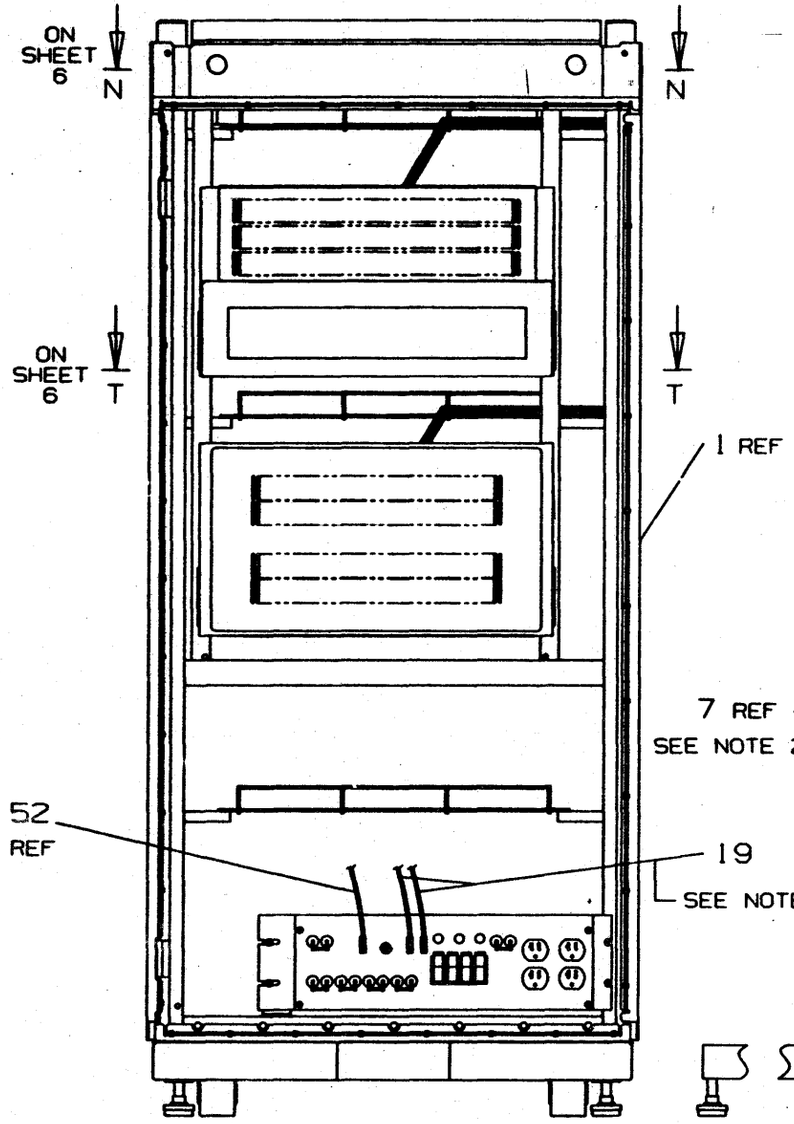
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE DN20F-MA/MC MECH. ASSY		SIZE D	CODE AD	NUMBER 7021028-0-0 REV. A
SCALE 1/4	SHEET 7 OF 7	DIST.		

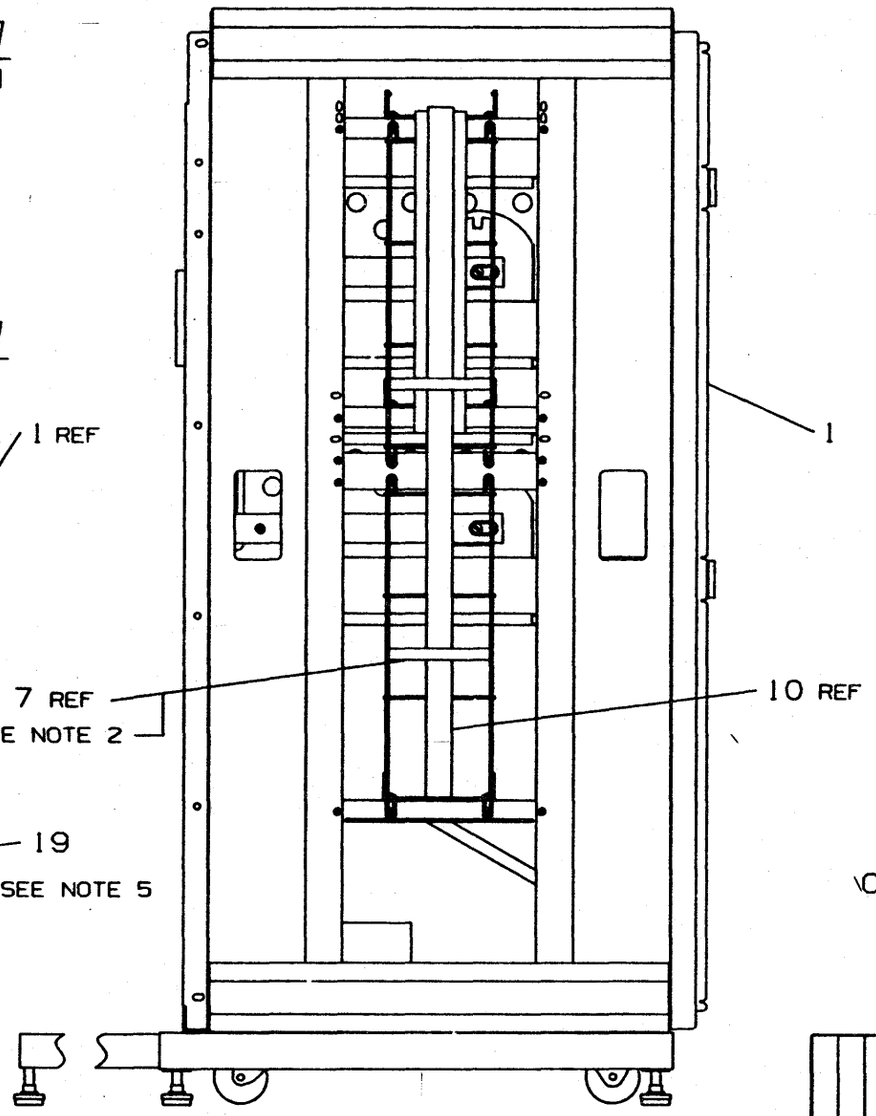
DAD 7021028-0-0 A

NOTES:

1. REFER TO SHEET 3 OF 24.



FRONT



RIGHT SIDE

CAUTION: OFF SHEET PARTS LIST EXISTS.
SEE K-PL-DN20F-0-DBP.

REVISIONS		
CHK	CHANGE NO.	REV.
	RELEASED	A

DESCRIPTION	DRAWING NO.	PART NO.	ITEM NO.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)

INCHES TOLERANCES	ANGLES ±0° 30'	APPLICABLE DIMENSION RANGE	DIMENSION RANGE IN INCHES
.X= ± .1	SURFACE QUALITY		OVER 0 TO 0.3 / OVER 0.3 TO 1.2 / OVER 1.2 TO 3.0 / OVER 3.0 TO 12.0 / OVER 12.0 TO 40.0 / OVER 40.0 TO 80.0
.XX= ± .02			±.03 / ±.05 / ±.10
.XXX= ± .005			±.005 / ±.008 / ±.012 / ±.020 / ±.031 / ±.04

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

DO NOT SCALE DRAWING

REMOVE BURRS AND BREAK SHARP CORNERS

MATERIAL SEE PARTS LIST

FINISH NONE

DSN J. BROWN	DATE 11-DEC-83	TITLE digital
CHK'D J DONAHER	DATE 17 APR 84	SYNC COMM SUB-SYSTEM
GEN. ENG. K SULLIVAN	DATE 17 APR 84	
PROJ. ENG. R SCOTT	DATE 17 APR 84	
MFG. ENG. P DUPONT	DATE 17 APR 84	
NEXT HIGHER DSC. 8-00-DN20F-0-DBU		DOCUMENT NUMBER: SIZE D, CODE UA, NUMBER DN20F-0-0, REV. A
		SCALE 1/4, SHEET 1 OF 24

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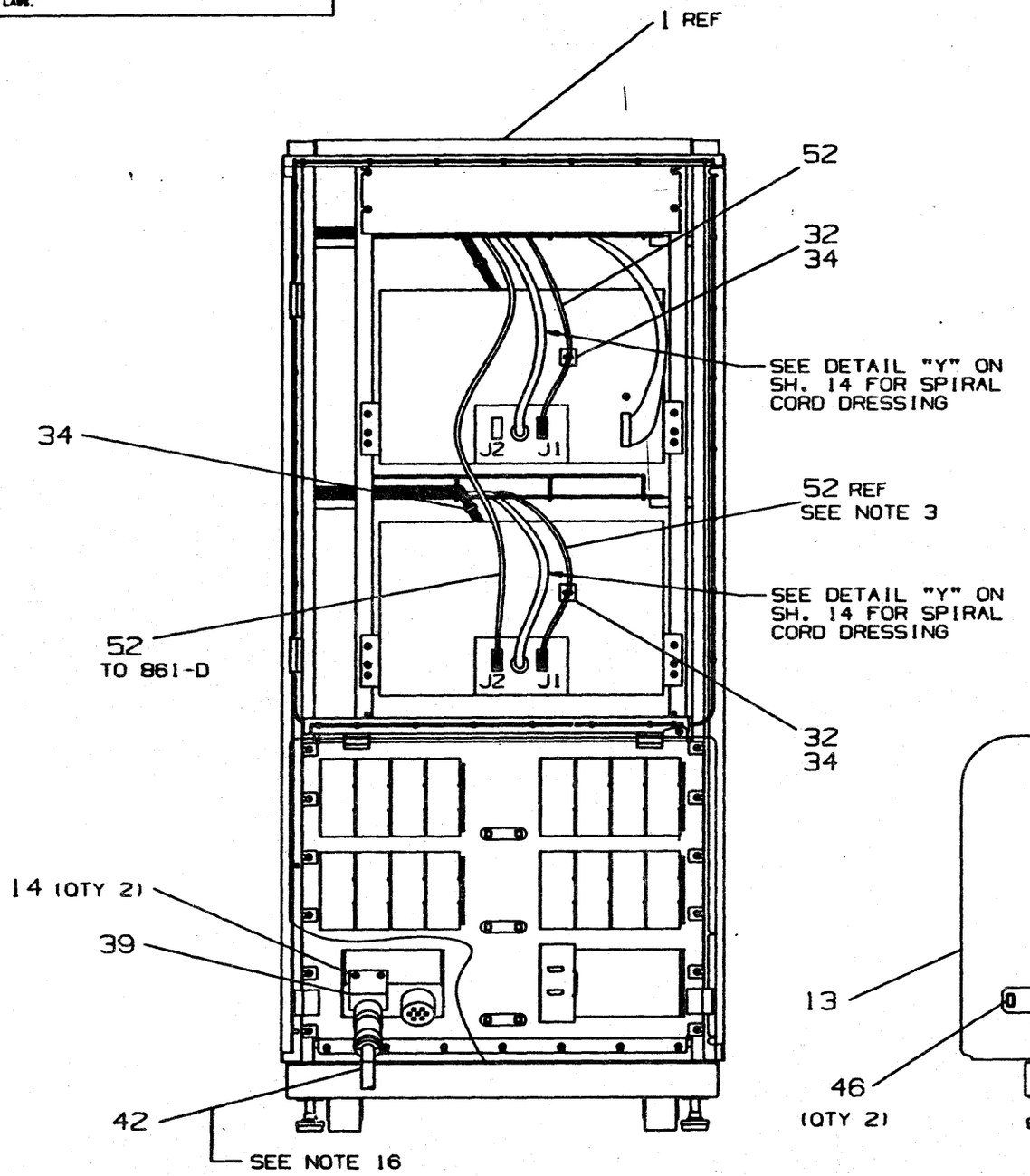
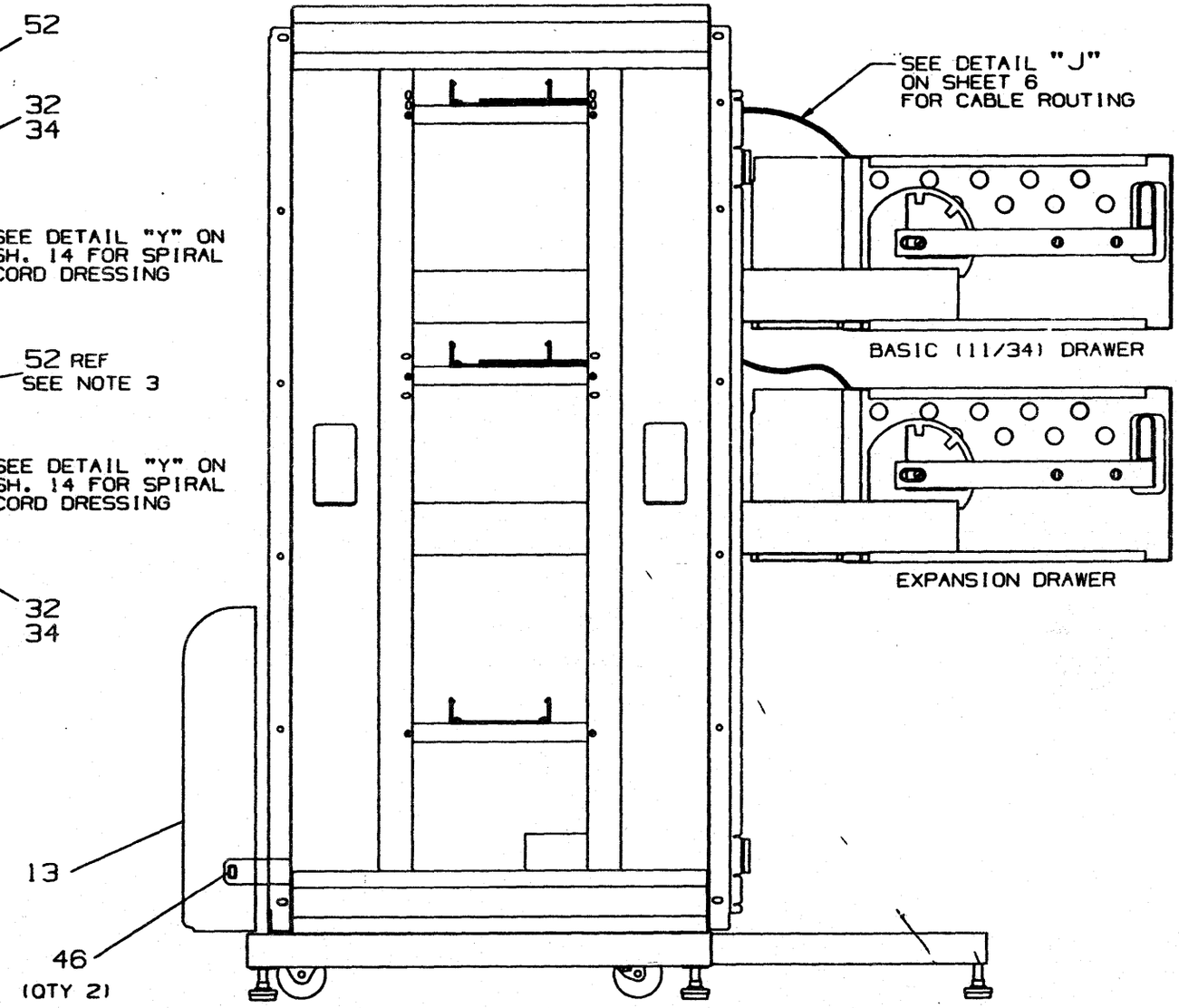


REAR VIEW



LEFT SIDE VIEW

REVISIONS		
CHK	CHANGE NO	REV

TITLE	SIZE	CODE	NUMBER	REV
SYNC COMM SUB-SYSTEM	D	UA	DN20F-0-0	A
SCALE 1/4 SHEET 2 OF 24	DIST			

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NOTES:

1. THE SPECIFIC OPTIONS FOR THE UNDEDICATED BACKPLANE WILL DEPEND ON THE DESIRED CUSTOMER CONFIGURATION.

   SEE THE ARRANGEMENT DRAWING D-AR-DN20F-M-2 FOR DETAILED INFORMATION.

2. SECURE THE CABLES IN THE CABLE BASKETS BY USING PLASTIC CLAMP (ITEM #7) WHERE NEEDED (QTY 20). THESE CLAMPS MAY BE MOUNTED IN THE FRONT, REAR OR VERTICALY ACROSS THE LADDER RUNGS OF THE CABLE BASKETS. MAKE CERTIAN THAT THEY HAVE BEEN MOUNTED IN SUCH A WAY SO AS TO CONTAIN ALL CABLES SECURELY WITHIN THE BASKETS SO THAT THE DRAWERS WILL NOT INTERFER WITH THE CABLES.

3. MOUNT TIE-MOUNT (ITEM 32) TO TOP CENTER OF BASIC & EXPANSION SYNC. DRAWERS. FASTEN REMOTE POWER CONTROL CABLE (ITEM 12) TO TIE MOUNT USING CABLE TIE (ITEM 34).SEE SHEET 2

4. A DN20F-BB IS EQUIVALENT TO ONE DUP11-M + CK-DUP11-A1 (SEE PARTS LIST)
   EACH DUP11-M + CK-DUP11-A1 CONSIST OF THE FOLLOWING ITEMS:

   1 M7867 SYNC. MODEM
   1 H3001 PANEL
   1 BC08S-10 CABLE
   1 7427292-01 FRAME (FOR KL10-B/C/D/E) SEE NOTE 6&14
   1 1215278 CABLE

   SEE DETAIL Y ON SH. 14 FOR ASSEMBLY INSTRUCTIONS

   A DN20F-BA IS EQUIVALENT TO ONE DUP11-M + CK-DUP11-A1 AND ONE KMC11-A (M8204) MODULE (SEE PARTS LIST) SEE NOTE 6&14

   EACH DN20F-BA AND DN20F-BB BACKPLANE MODULE SLOT WHICH DOES NOT HAVE A DN20F-BA OR DN20F-BB OPTION INSTALLED MUST HAVE A G727 GRANT CONTINUITY CARD (SUPPLIED WITH DD11-PK, DD11-DK AND DD11-CK BACKPLANES) INSTALLED IN ROW "D" OF THAT RESPECTED SLOT.

   REMOVE THE WIRE FROM PIN CA1 TO PIN CB1 OF ALL DN20F-BA BACKPLANE SLOTS WHICH HAVE A KMC11-A (M8204) MODULE INSTALLED. SEE NOTE UNDER CONFIGURATION INFORMATION FOR M8204 (KMC11-A) MODULES ON SHEET 19.

5. THE REMOTE POWER CONTROL CABLE (ITEM 19) SHOULD BE ROUTED FROM ANY AVAILABLE REMOTE POWER CONTROL JACK OF THE 861-D POWER CONTROL IN THE DN20F CABINET TO ANY AVAILABLE REMOTE POWER CONTROL PANEL OPENING ON THE BULKHEAD.

6. LABEL ALL DUP11-M CABLES (BC08S-10) AT BOTH ENDS WITH BRADY MARKERS TO IDENTIFY THIER CORRECT LINE NUMBERS.

7. THE BC11A-13 UNIBUS CABLE WHICH ROUTES BETWEEN THE BASIC (11/34A) AND EXPANSION DRAWERS SHOULD HAVE A FOLD SIMULAR TO THAT ONE SHOWN IN VIEW "T-T" (ALTERNATE CABLE FOLD) AT THE ENTRANCE TO ONE HORIZONTAL CABLE BASKET AND A FOLD SIMULAR TO THE ONE SHOWN IN VIEW "N-N" (STANDARD CABLE FOLD) AT THE ENTRANCE TO THE OTHER HORIZONTAL CABLE BASKET.

   THIS IS TO ORIENT THE CABLE CORRECTLY SO THAT IT CAN EASILY BE PLUGED INTO THE "UNIBUS" IN SLOT OF THE EXPANSION DRAWER TO WHICH IT IS BEING ROUTED USING THE SIMPLE FOLDS ILLUSTRATED IN DETAIL "S"ON SHEET 7.

8. THE SERVICE LOOP FOR THE BASIC AND EXPANSION DRAWERS SHOULD BE INSTALLED WITH THE DRAWERS EXTENDED FULLY AND TILTED 90 DEGREES VERTICALLY AS SHOWN BY DETAIL "J". THE ELECTRICAL TAPE BINDING THE INTERNAL UNIBUS ASSY TOGETHER SHOULD BE REMOVED FOR THE LENGTH OF THE SERVICE LOOP. THE SERVICE LOOP, WHEN PROPERLY INSTALLED, WILL BE APPROXIMATELY 30.0" LONG.

9. ALL DD11-B BACKPLANE SLOTS IN THE KL10 F/E WHICH DO NOT HAVE A DL11-M MODULE INSTALLED MUST HAVE A G727 GRANT CONTINUITY CARD (SUPPLIED WITH THE DD11-B BACKPLANE) INSTALLED IN ROW "D" OF THAT SLOT.

10. ROUTE THE BC08S-10 CABLES FOR THE DL11-M INTO THE KL10 CONSOLE PROCESSOR DRAWER IN THE SAME MANNER AS BC08S-10 CABLE FOR THE KL1NIK LINK ROUTING SEE KL10 PRINT SET FOR CABLE ROUTING DETAILS.

11. CHECK J2 THRU J4 IN THE KL10 I/O BAY TO MAKE CETAIN THEY ARE WIRED CORRECTLY BEFORE PLUGGING IN CABLE (ITEM 21). SOME UNITS HAVE BEEN BUILT INCORRECTLY

12. THE BERG CONNECTORS ON THE INTERNAL UNIBUS ASSEMBLY CAN EASILY BE INSERTED INTO THE UNIBUS PANEL ASSY INCORRECTLY (EITHER SHIFTED UP OR DOWN ONE ROW OF PINS). CAUTION SHOULD BE EXERCISED WHEN INSERTING THESE CONNECTORS TO GUARANTEE THAT THEY ARE INSERTED CORRECTLY.

13. THE BC11A-03 (ITEM 44 OF THE PARTS LIST) CABLE ROUTES BETWEEN SLOTS AB01 OF DD11-DK #1 AND AB04 OF THE DB11-M UNIBUS REPEATER.

14. DISCARD THE 7427292-01 MOUNTING BRACKET THAT COMES WITH THE CK-DL11-A1 WHEN USED ON KL10R.

15. HIGH SPEED SYNC MEANS DMR11-M +CK-DMR11-A*/B*/C*/E*/F*)

16. IF THE POWER CORD IS REMOVED FOR SERVICING THE POWER CONNECTOR CLAMP MUST BE REINSTALLED FOR UL/CSA COMPLIANCE.

17. WHEN ATTACHING THE DL11 TO A KL10R BULKHEAD REMOVE THE BC27C PANEL FROM THE CONNECTOR FILTER AND CONNECT IT THRU THE D SUB HOLE IN THE BULKHEAD REF E-UA-KL10R-0-0.

18. WHEN ATTACHING THE DTE REMOTE CABLES TO THE KL10-B,C,D,E, CONNECT THE EXTERNAL DTE REMOTE CABLE & THE DTE REMOTE ADAPTOR #1 TO FORM ONE LONG CABLE.

REVISIONS		
CHK	CHANGE NO	REV

TITLE	SIZE	CODE	NUMBER	REV
SYNC COMM SUB-SYSTEM	D	UA	DN20F-0-0	A
SCALE NONE SHEET 3 OF 24	DIST			

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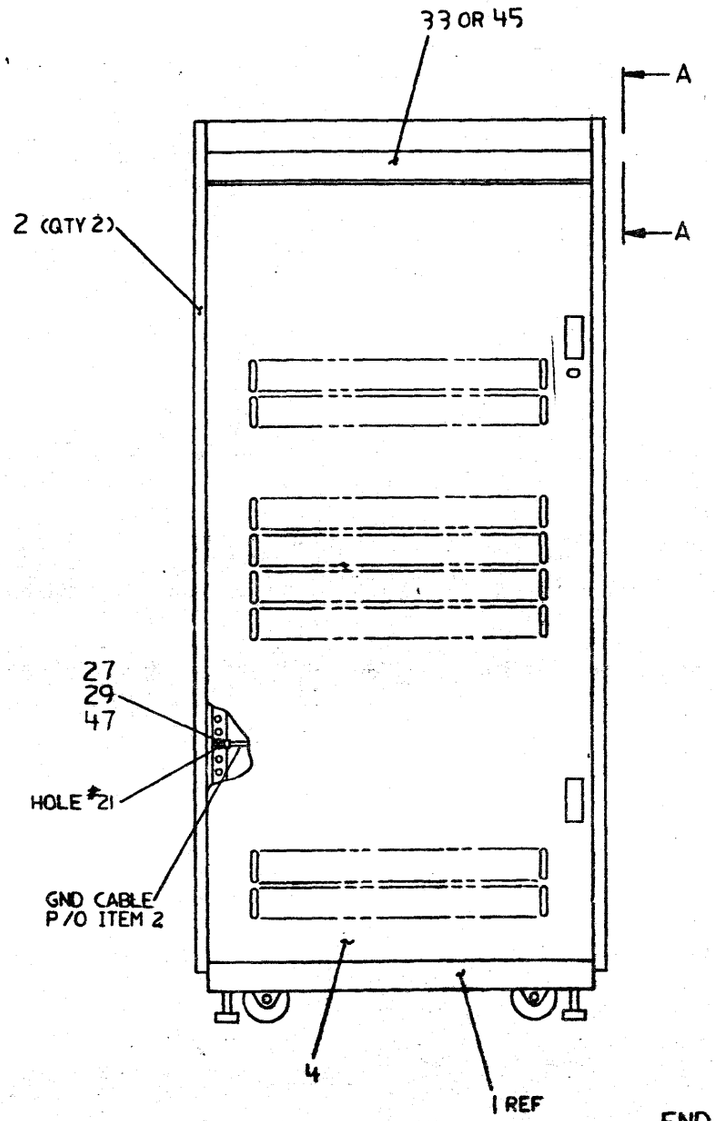
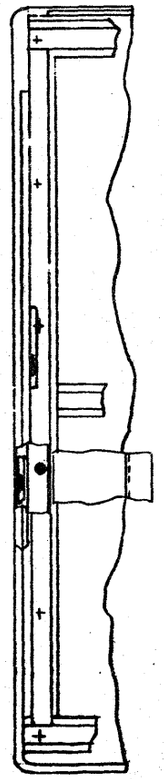
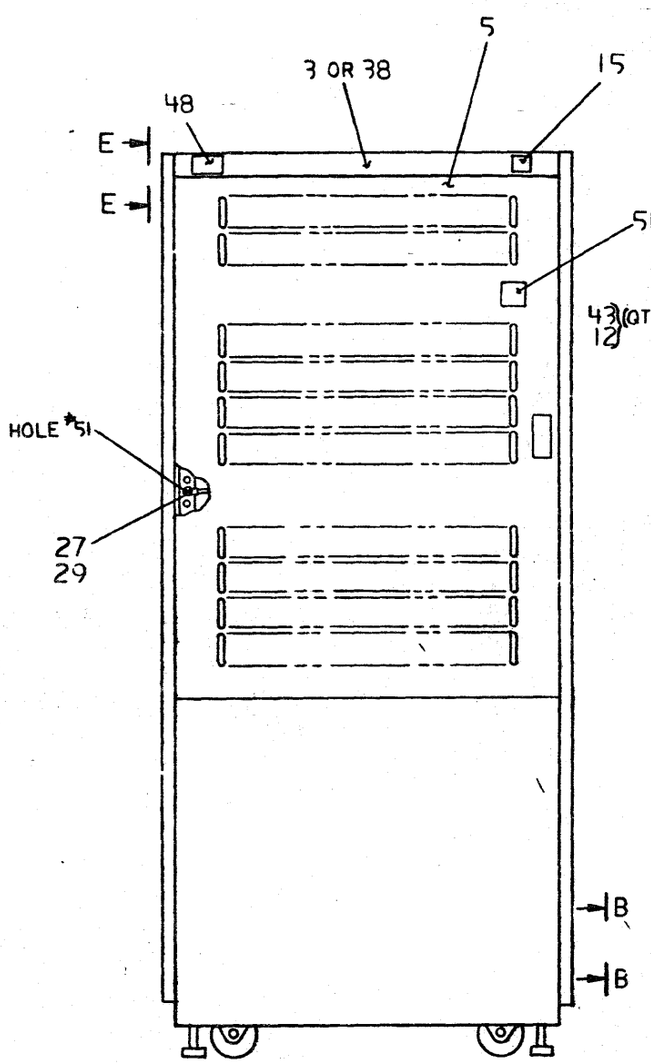


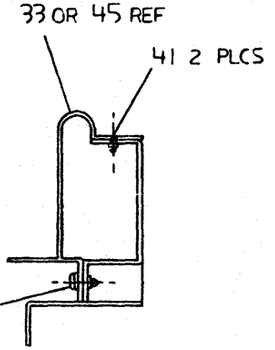
FRONT VIEW



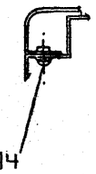
END PANEL MOUNTING
TYP. 4 PLCS



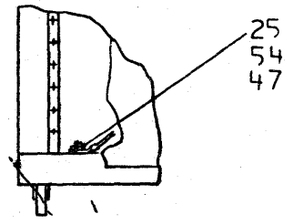
REAR VIEW



VIEW A-A
WITHOUT SIDE PANEL



VIEW E-E
WITHOUT SIDE PANEL



PARTIAL END VIEW
GROUND TERMINATION
TYP 2 ENDS

REVISION HISTORY		
REV.	ECO NUMBER	DATE

TITLE SYNC
COMM SUB SYSTEM

DOCUMENT NUMBER
SIZE D CODE UA NUMBER DN20F-0-0 REV A
SCALE NONE SHEET 4 OF 7

1 MRO

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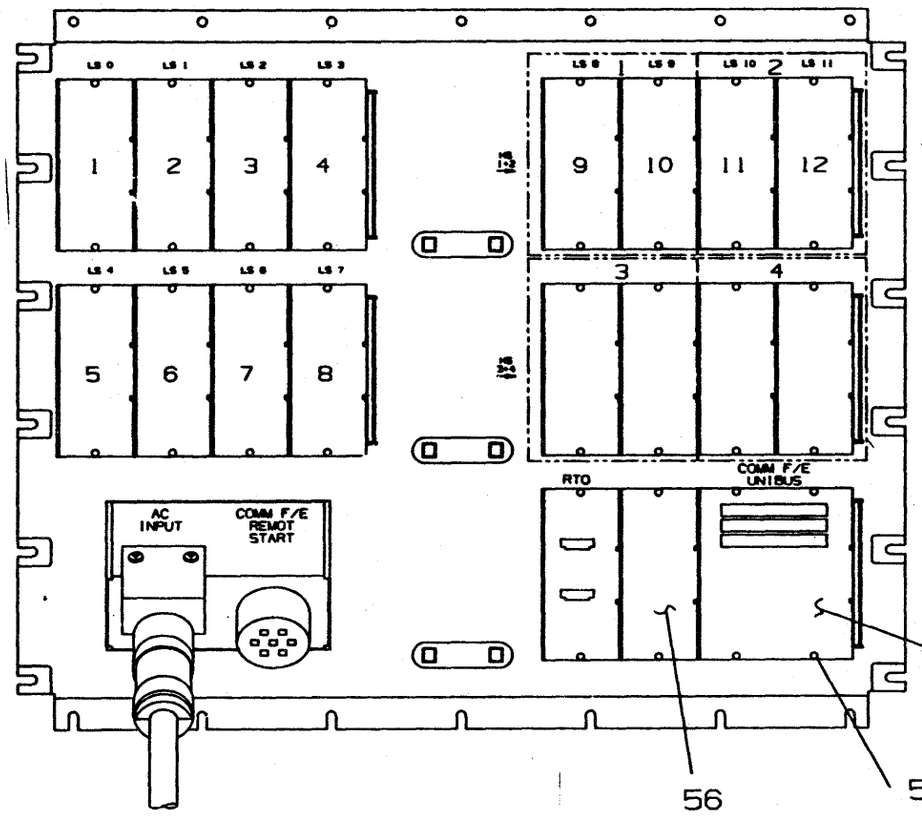

BULKHEAD NUMBERING
FOR
HIGH SPEED
&
LOW SPEED
VARIATIONS

REVISIONS		
CHK	CHANGE NO	REV

TITLE	SYNC COMM SUB-SYSTEM	SIZE/CODE	NUMBER / REV
		D UA	DN20F-0-0 A
SCALE 2/1	SHEET 5 OF 24	DIST	

MRO

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SEE DETAIL 'S'
ON SHEET 7

7 REF

CABLE BASKET
P/O ITEM 1

BATTERY BACK-UP CABLE
FROM H7850 TO BATTERY
BACK-UP UNIT (H775-A) P/O
ITEM 1

FLAT CABLES

34

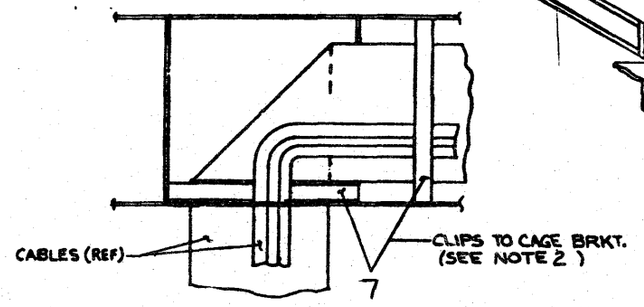
ROUND CABLES

ROUTE POWER CORD
AS SHOWN ON SH. 2

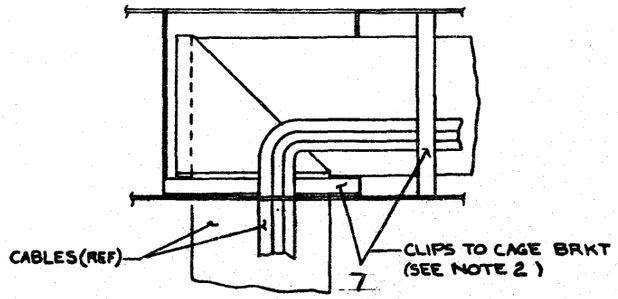
DETAIL 'J'
SEE NOTE 8

POWER CORD

BATTERY BACK-UP
CABLE FOR DN20F-MA/MC
TO BATTERY BACK-UP REGULATOR H7850
FROM H775-A.



VIEW N-N
STANDARD CABLE FOLD
SCALE : 1/2
SEE NOTE 7



VIEW T-T
ALTERNATE CABLE FOLD
SEE NOTE 7
SCALE : 1/2

REVISIONS		
CHK	CHANGE NO.	REV.
	1	

TITLE	SIZE	CODE	NUMBER	REV.
SYNC COMM SUB SYSTEM	D	UA	DN20F-0-0	A
SCALE 1/2 SHEET 6 OF 25	DIST.			

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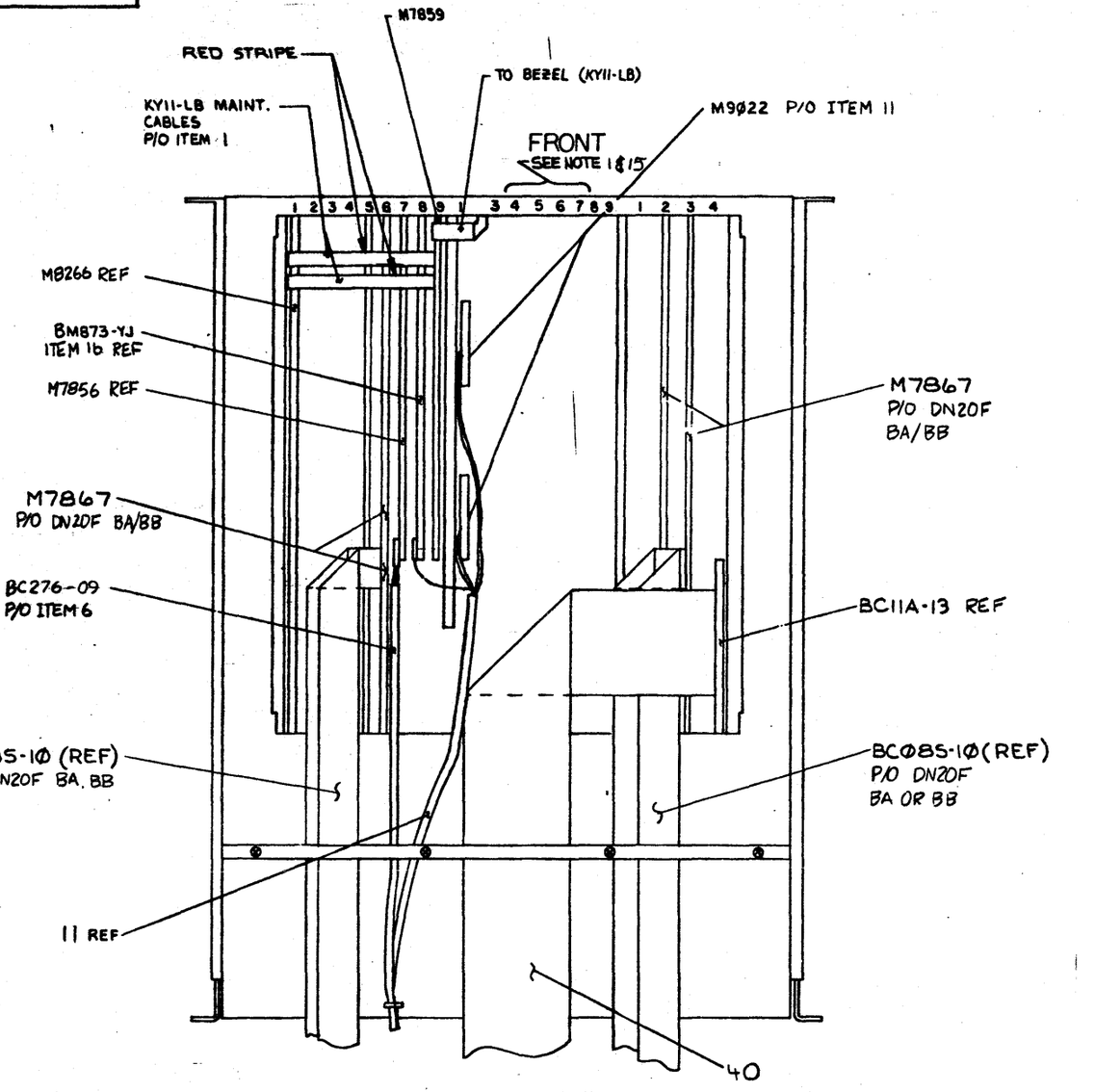
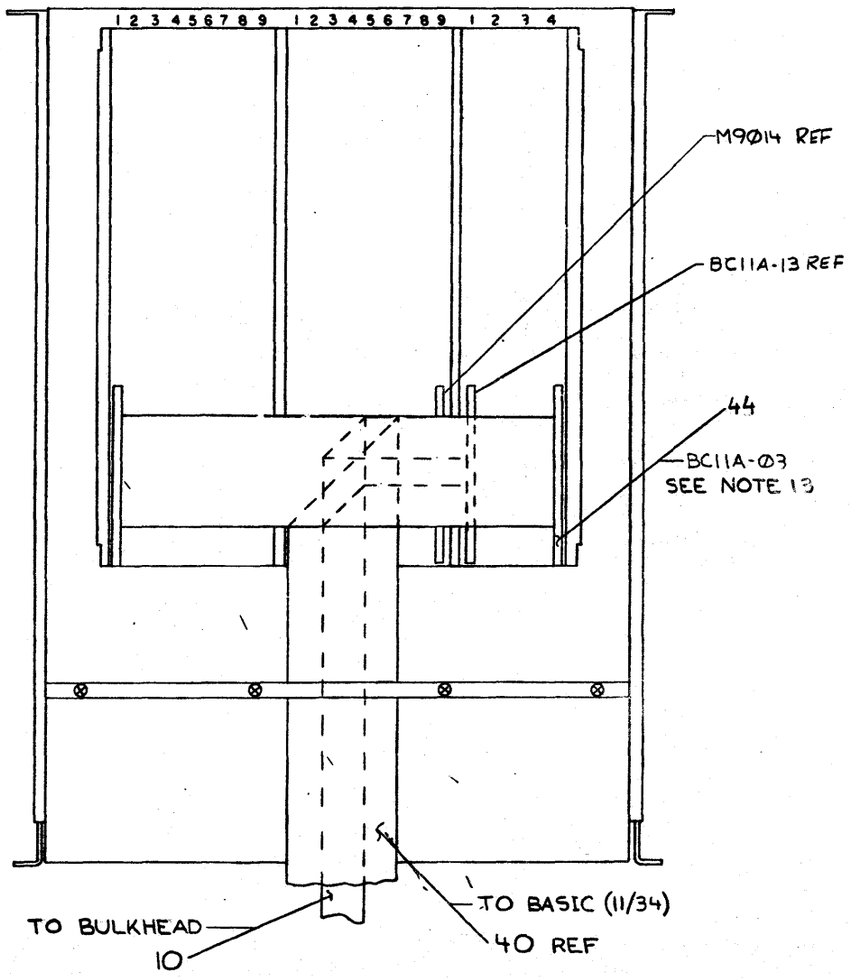


BASIC (1134A) DRAWER
DN20F-MA/MC

DETAIL 'S'



EXPANSION DRAWER

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
SYNC COMM SUB-SYSTEM	D	UA	DN20F-0-0	A
SCALE 1/4	SHEET 7 OF 25	DIST.		

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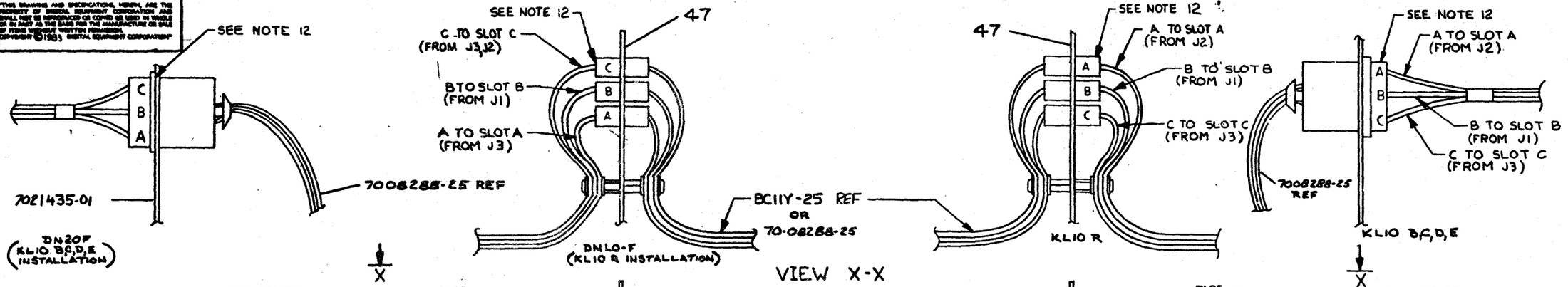
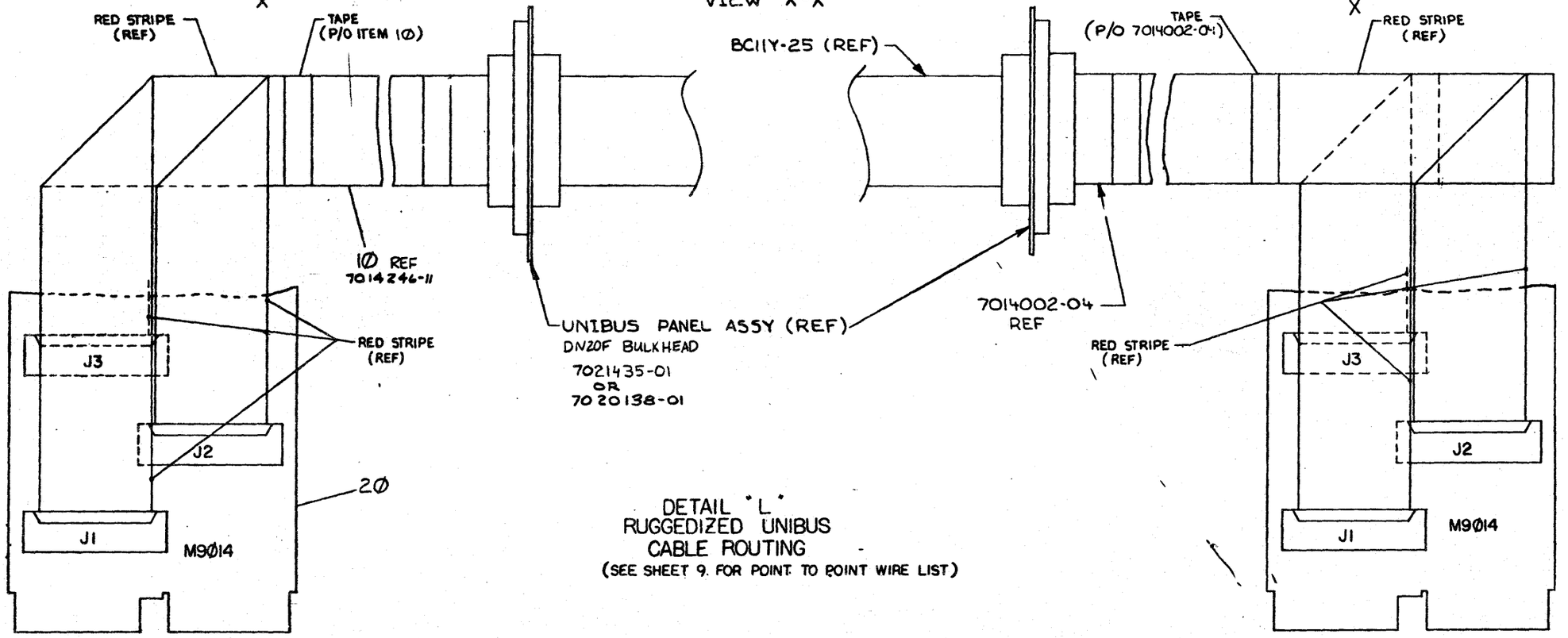


VIEW X-X



DETAIL "L"
RUGGEDIZED UNIBUS
CABLE ROUTING
(SEE SHEET 9. FOR POINT TO POINT WIRE LIST)

TO "UNIBUS OUT" SLOT IN BASIC OR EXPANSION DRAWER OF DN20F (SEE SHEET 14)

TO "UNIBUS IN" SLOT FOR DTE20 IN KLIOR I/O BAY (SEE SHEET 15)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
SYNC COMM SUB SYSTEM	D	UA	DN20F-0-0	A
SCALE 1/1	SHEET 8 OF 25		DIST.	

MR

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RUGGEDIZED
UNIBUS CABLE ROUTING
POINT TO POINT
WIRE LIST

UNIBUS SIGNAL NAME	FRONT END UNIBUS PIN ASSIGNMENT	FRONT END M8014 CONN. PIN ASSIGNMENT		FRONT END TRANSITION CONNECTOR (PN7000001) PIN ASSIGNMENT		KL10 TRANSITION CONNECTOR (PN7000001) PIN ASSIGNMENT		KL10 M8014 CONN. PIN ASSIGNMENT		KL10 UNIBUS PIN ASSIGNMENT
		JACK	PIN	SLOT	PIN	SLOT	PIN	JACK	PIN	
A00 L	BH2	J1	D	B	4	B	4	J1	D	BH2
A01 L	BH1	J1	B	B	2	B	2	J1	B	BH1
A02 L	BJ2	J1	J	B	6	B	6	J1	J	BJ2
A03 L	BJ1	J1	F	B	8	B	8	J1	F	BJ1
A04 L	BK2	J1	N	B	12	B	12	J1	N	BK2
A05 L	BK1	J1	L	B	10	B	10	J1	L	BK1
A06 L	BL2	J1	T	B	16	B	16	J1	T	BL2
A07 L	BL1	J1	R	B	14	B	14	J1	R	BL1
A08 L	BM2	J1	X	B	20	B	20	J1	X	BM2
A09 L	BM1	J1	V	B	18	B	18	J1	V	BM1
A10 L	BN2	J1	BB	B	24	B	24	J1	BB	BN2
A11 L	BN1	J1	Z	B	22	B	22	J1	Z	BN1
A12 L	BP2	J1	FF	B	26	B	26	J1	FF	BP2
A13 L	BP1	J1	DD	B	28	B	28	J1	DD	BP1
A14 L	BR2	J1	LL	B	32	B	32	J1	LL	BR2
A15 L	BR1	J1	JJ	B	30	B	30	J1	JJ	BR1
A16 L	BS2	J1	RR	B	36	B	36	J1	RR	BS2
A17 L	BS1	J1	NN	B	34	B	34	J1	NN	BS1
ACLO L	BF1	J2	VV	A	48	C	48	J2	VV	BF1
BBSY L	AP2	J3	BB	C	24	A	24	J3	BB	AP2
BG4 H	BE2	J3	X	C	20	A	20	J3	X	BE2
BG5 H	BB1	J3	T	C	16	A	16	J3	T	BB1
BG6 H	BA1	J3	N	C	12	A	12	J3	N	BA1
BG7 H	AV1	J3	J	C	8	A	8	J3	J	AV1
BR4 L	BD2	J3	V	C	18	A	18	J3	V	BD2
BR5 L	BC1	J3	R	C	14	A	14	J3	R	BC1
BR6 L	AU2	J3	L	C	10	A	10	J3	L	AU2
BR7 L	AT2	J3	F	C	8	A	8	J3	F	AT2
C0 L	BU2	J3	NN	C	34	A	34	J3	NN	BU2
C1 L	BT2	J1	TT	B	38	B	38	J1	TT	BT2
D00 L	AC1	J2	B	A	2	C	2	J2	B	AC1
D01 L	AD2	J2	F	A	6	C	6	J2	F	AD2
D02 L	AD1	J2	D	A	4	C	4	J2	D	AD1
D03 L	AE2	J2	L	A	10	C	10	J2	L	AE2
D04 L	AE1	J2	J	A	8	C	8	J2	J	AE1
D05 L	AF2	J2	R	A	14	C	14	J2	R	AF2
D06 L	AF1	J2	N	A	12	C	12	J2	N	AF1
D07 L	AH2	J2	V	A	18	C	18	J2	V	AH2
D08 L	AH1	J2	T	A	16	C	16	J2	T	AH1
D09 L	AJ2	J2	Z	A	22	C	22	J2	Z	AJ2
D10 L	AJ1	J2	X	A	20	C	20	J2	X	AJ1
D11 L	AK2	J2	DD	A	26	C	26	J2	DD	AK2
D12 L	AK1	J2	BB	A	24	C	24	J2	BB	AK1
D13 L	AL2	J2	JJ	A	30	C	30	J2	JJ	AL2
D14 L	AL1	J2	FF	A	28	C	28	J2	FF	AL1
D15 L	AM2	J2	NN	A	34	C	34	J2	NN	AM2
GROUND	AB2	THE FOLLOWING PINS ON J1, J2 AND J3 ARE GROUNDED. A S HH C U KK E W MM H Y PP K AA SS M CC UU P EE		THE FOLLOWING PINS ON SLOTS A,B AND C ARE GROUNDED. 1 15 29 3 17 31 5 19 33 7 21 35 9 23 37 11 25 39 13 27		THE FOLLOWING PINS ON SLOTS A,B AND C ARE GROUNDED. 1 15 29 3 17 31 5 19 33 7 21 35 9 23 37 11 25 39 13 27		THE FOLLOWING PINS ON J1, J2 AND J3 ARE GROUNDED. A S HH C U KK E W MM H Y PP K AA SS M CC UU P EE		AB2
GROUND	AC2									AC2
GROUND	AN1									AN1
GROUND	AP1									AP1
GROUND	AR1									AR1
GROUND	AS1									AS1
GROUND	AT1									AT1
GROUND	AV2									AV2
GROUND	BB2									BB2
GROUND	BC2									BC2
GROUND	BD1	J1	VV	B	48	B	48	J1	VV	BD1
GROUND	BE1	J2	TT	A	38	C	38	J2	TT	BE1
GROUND	BT1	J3	DD	C	28	A	28	J3	DD	BT1
GROUND	BV2	J3	RR	C	36	A	36	J3	RR	BV2
INIT L	AA1	J3	Z	C	22	A	22	J3	Z	AA1
INTR L	AB1	J3	FF	C	28	A	28	J3	FF	AB1
MSYN L	BV1	J3	LL	C	32	A	32	J3	LL	BV1
NPG H	AU1	J3	D	C	4	A	4	J3	D	AU1
NPR L	AS2	J3	B	C	2	A	2	J3	B	AS2
PA L	AM1	J2	LL	A	32	C	32	J2	LL	AM1
PB L	AN2	J2	RR	A	36	C	36	J2	RR	AN2
+5V	AA2	—	—	—	—	—	—	—	—	AA2
+5V	BA2	—	—	—	—	—	—	—	—	BA2
SACK L	AR2	J3	TT	C	38	A	38	J3	TT	AR2
SCLO L	BF2	J3	VV	C	48	A	48	J3	VV	BF2
SSYN L	BU1	J3	JJ	C	38	A	38	J3	JJ	BU1

REVISIONS: CHG | CHANGE NO. | REV.

TITLE: SYNC COMM SUB SYSTEM
SCALE: NONE | SHEET 9 OF 25 | SIZE: D | CODE: DUA | NUMBER: DN20F-0-0 | REV: A

SIZE D | CODE DUA | NUMBER DN20F-0-0 | REV. A

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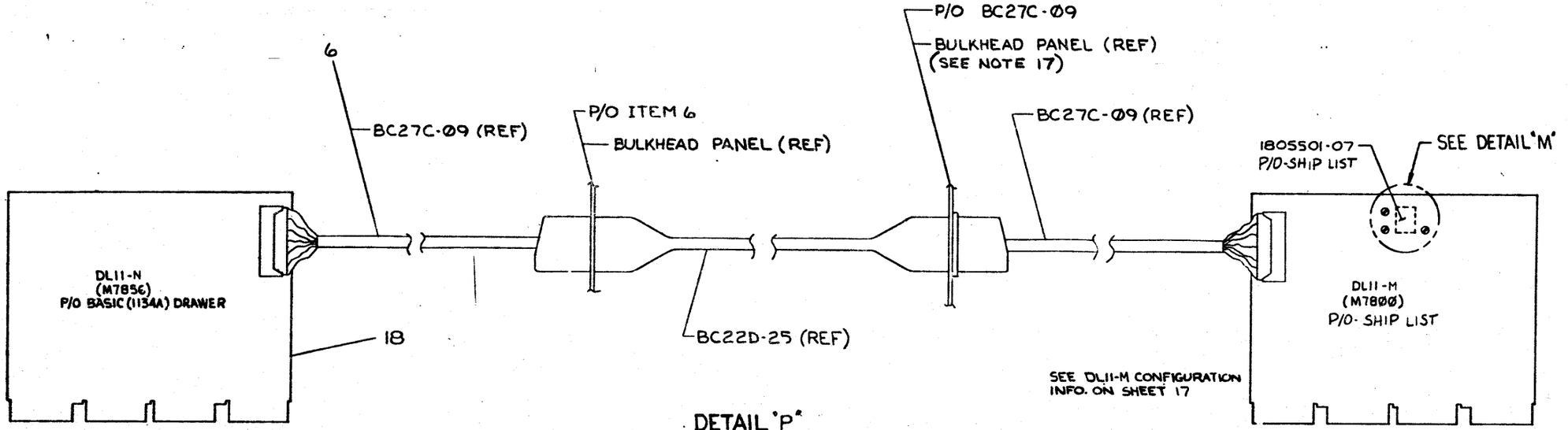
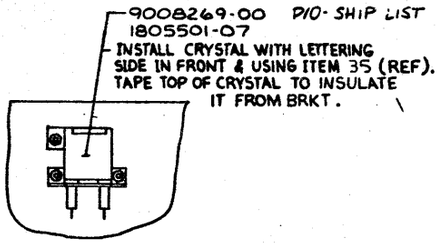


DETAIL 'P'
DOWN LINE LOADER LINK CABLE ROUTING



DETAIL 'M'
FRONT OF MODULE
SCALE: 1/1

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE: SYNC COMM SUB SYSTEM		SIZE: D	CODE: UA	NUMBER: DN20F-0-0
SCALE: 1/2	SHEET 10 OF 25	DIST.		REV: A

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M9022 ORN BLK

TO SLOT "1E" OF DD11-DK BACKPLANE IN BASIC (1134A) DRAWER (SEE SHEET 14)

M9022 RED BLK BLK

TO SLOT "1C" OF DD11-DK BACKPLANE IN BASIC (1134A) DRAWER (SEE SHEET 14)

DN20F BULKHEAD (REF)

CABLE, DTE REMOTE

KL10R BULKHEAD (REF)

SEE NOTE 18

32
34

M9310 P/O SHIPLIST

M9310 ORN +5V BLK GND

TO "UNIBUS OUT" SLOT FOR DTE20 IN KL10 I/O BAY (SEE SHEET 15)

WHT

11

BM873-YJ

16

TO DD11-PK. BACKPLANE IN BASIC (1134A) DRAWER (SEE SHEET 14)

BLK RED BLK WHT

C C

TO J2, J3, OR J4 IN KL10 I/O BAY (SEE SHEET 15)

TOP

1 RED (+5V)
2 BLK (GROUND)
3 WHT (ELECT FINGER)
4 BLK (GROUND)

J2 THRU J4 IN KL10 I/O BAY CORRECT WIRING DIAGRAM

CAUTION: SEE NOTE 11

VIEW C-C

DETAIL "R"
DTE20 REMOTE CABLE HARNESS ROUTING

7021033-01 REF
HARNESS DTE REMOTE
(ADAPTOR NO. 1)
P/O SHIP LIST

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE SYNC COMM SUB SYSTEM
SIZE D CODE UA NUMBER DN20F-0-0 REV. A
SCALE 1/2 SHEET 11 OF 25 DIST.

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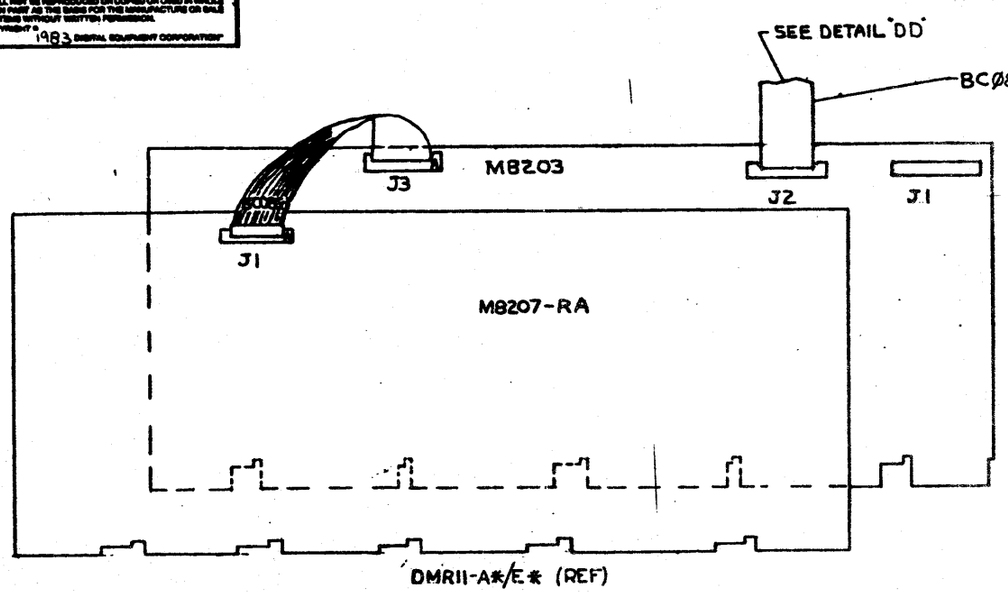

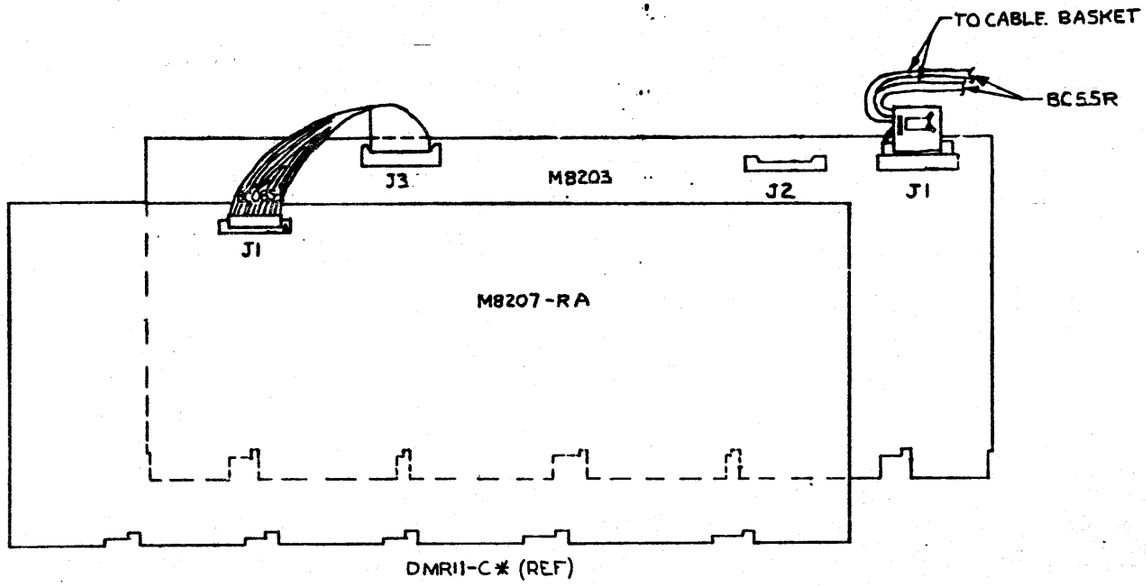

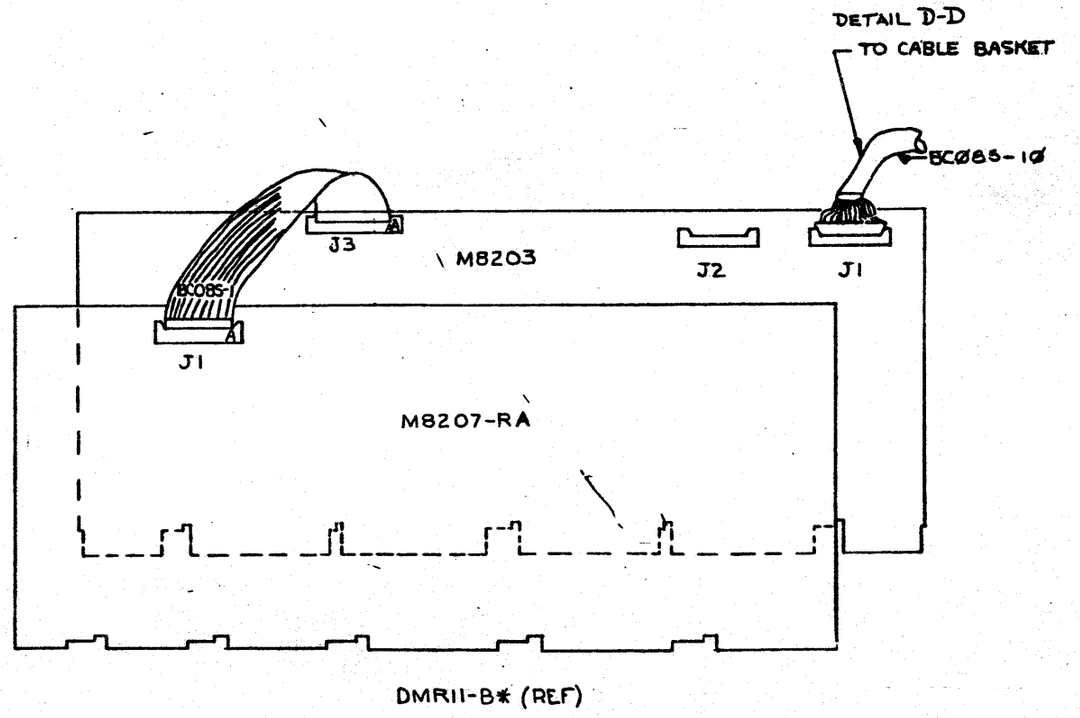

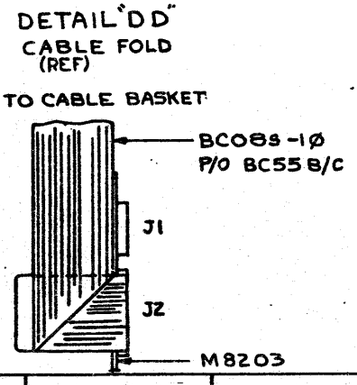

REVISION HISTORY		
DATE	ECO NUMBER	REV.

TITLE SYNC COMM SUB SYSTEM

DOCUMENT NUMBER: DUA DN20F-0-0 REV. A

SCALE NONE SHEET 12 OF 25

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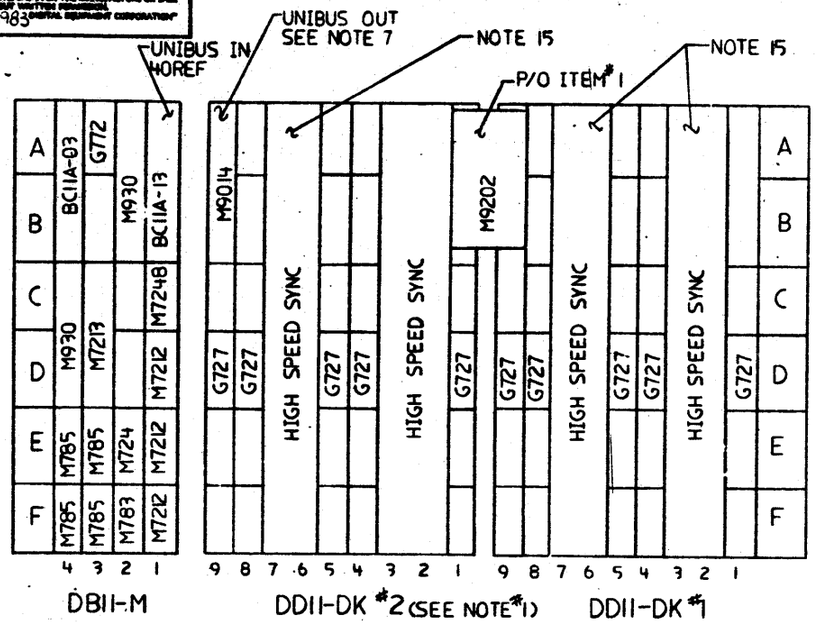
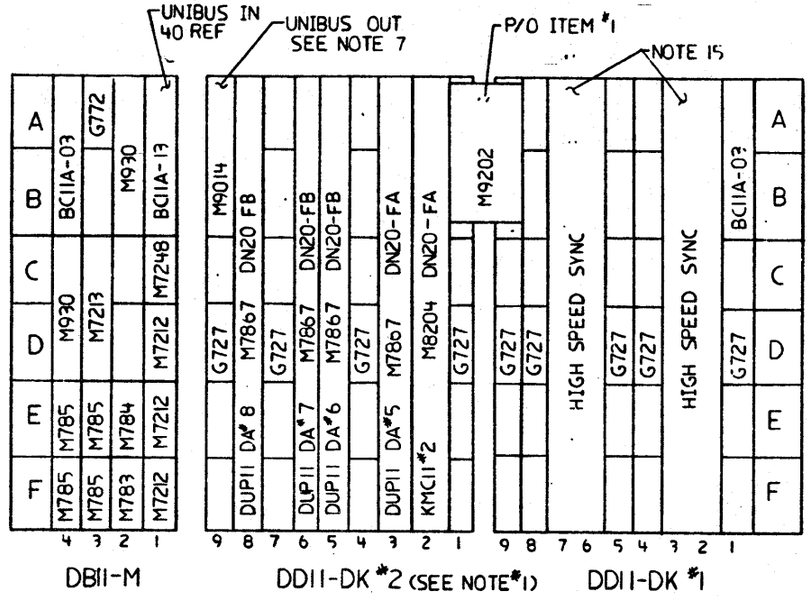
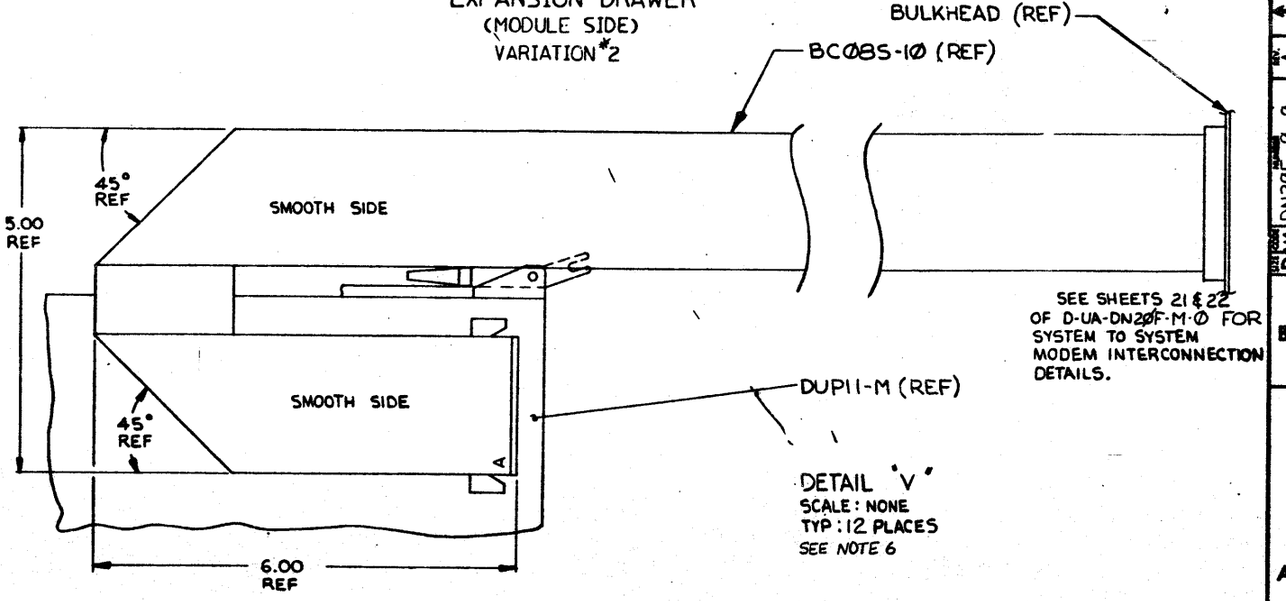


MODULE UTILIZATION EXPANSION DRAWER
(MODULE SIDE)
VARIATION #1



MODULE UTILIZATION EXPANSION DRAWER
(MODULE SIDE)
VARIATION #2



DETAIL "V"
SCALE: NONE
TYP: 12 PLACES
SEE NOTE 6

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
SYNC COMM SUB SYSTEM	D	UA	DN20F-0-0	A
SCALE NONE	SHEET 13 OF 25		DIST.	

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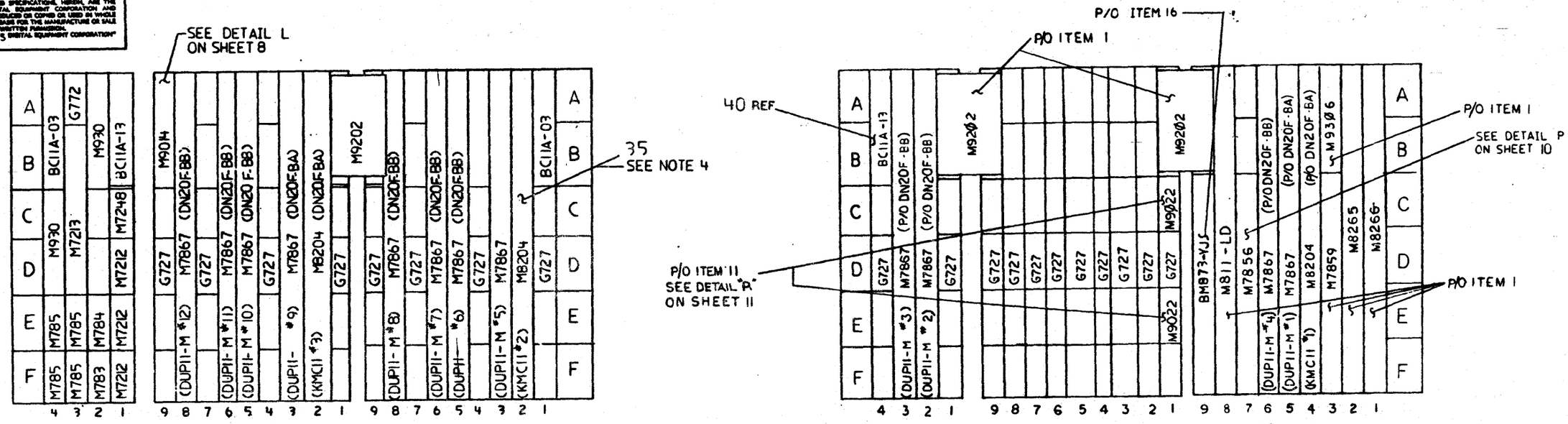
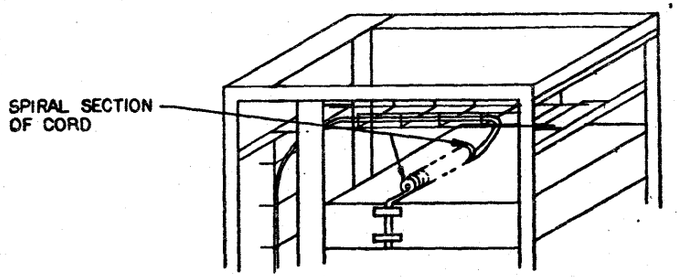


MODULE UTILIZATION
EXPANSION DRAWER
MODULE SIDE

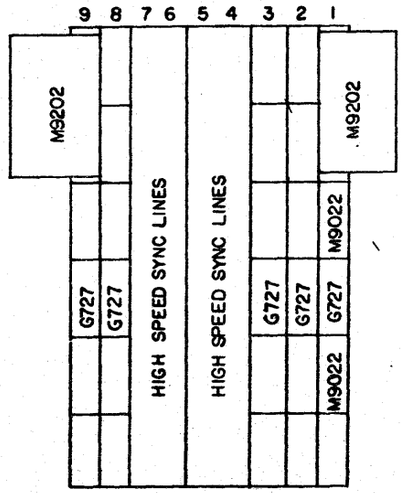
VARIATION 3

MODULE UTILIZATION
BASIC (1134A) DRAWER
(MODULE SIDE)
PART OF DN20F-MA/MC



DETAIL "Y"
SCALE: NONE

FOR CONFIGURATION INFORMATION ON ALL MODULES AND BACKPLANES SEE "CONFIGURATION INFORMATION" STARTING ON SHEET 16
* SEE NOTE 4



DDII-DK
BASIC (1134A) DRAWER

DN20F
DDII-DK SLOTS 4-7 VARIATION
SEE NOTES 1 & 15

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SYNC COMM SUB SYSTEM		
SIZE	CODE	NUMBER	REV.
D	UA	DN20F-0-0	A
SCALE	NONE	SHEET 14 OF 25	DIST.

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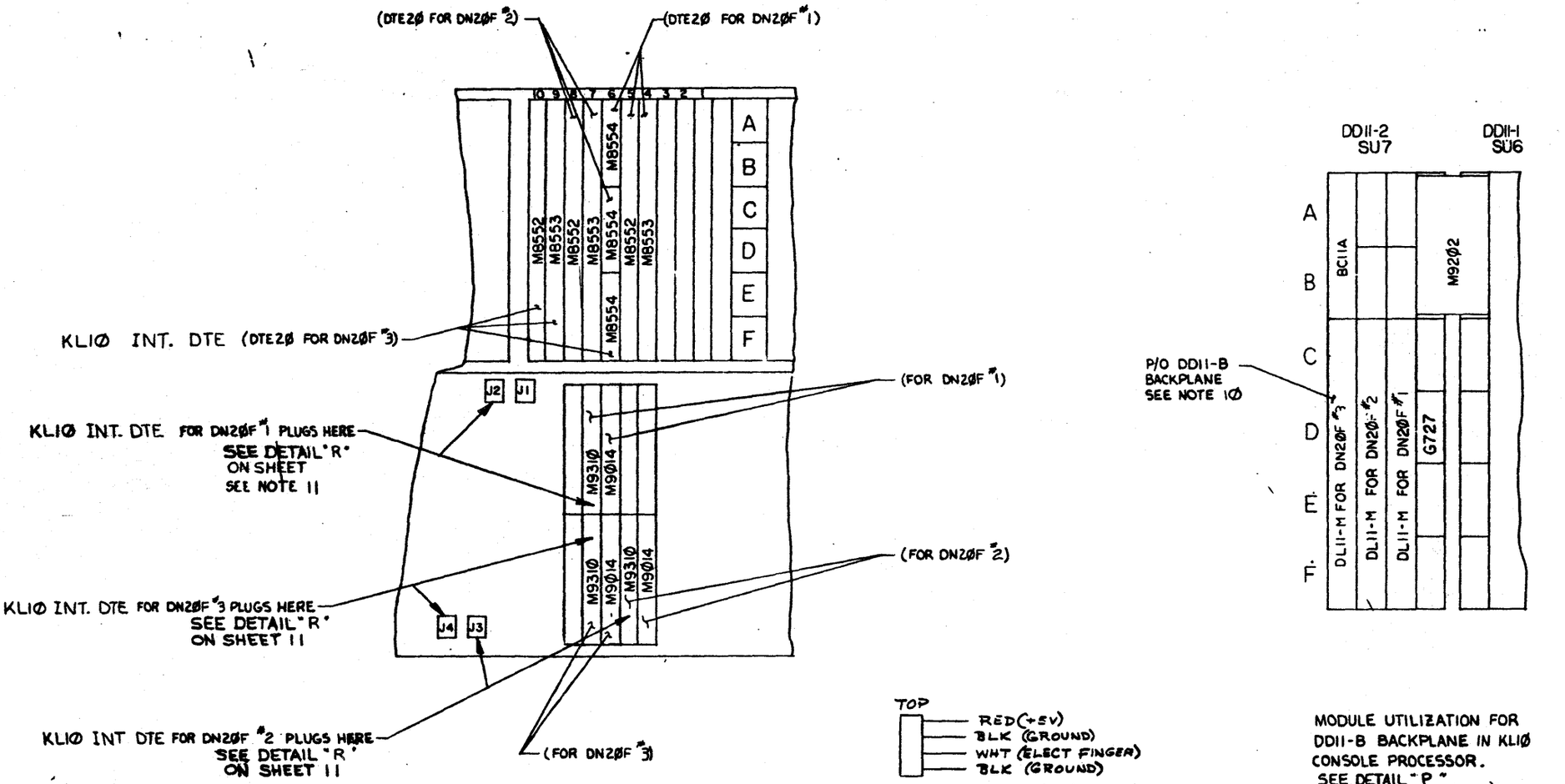

KLIØ I/O BAY

J2 THRU J4 IN KLIØ I/O BAY
CORRECT WIRING DIAGRAM
CAUTION: SEE NOTE 11

VIEW C-C

MODULE UTILIZATION FOR
DD11-B BACKPLANE IN KLIØ
CONSOLE PROCESSOR.
SEE DETAIL "P"
ON SHEET 10.
FOR KLIO 1080/1090/1091

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE SYNC COMM SYSTEM		SIZE D	CODE UA	NUMBER DN2ØF-Ø-Ø
SCALE NONE	SHEET 15 OF 25	DIST.		REV. A

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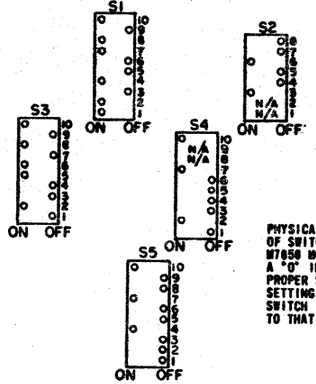
I.) MODULE CONFIGURATION INFORMATION

1) M8203 LOWEST ACCEPTABLE REV D
THIS MODULE CONTAINS TWO JUMPERS W1 AND W2 WHICH ARE ALWAYS PRESENT. THESE JUMPERS DETERMINE THE SPEED OF THE PROCESSOR CLOCK AND MUST NOT BE REMOVED.

2) M8266 LOWEST ACCEPTABLE REV E
JUMPER W1 DETERMINES THE CAPABILITY OF THE PROCESSOR TO DETECT PARITY ERRORS. ALL M8266 MODULES WILL HAVE W1 PRESENT TO ALLOW THE CPU TO DETECT PARITY ERRORS.

3) M7850 (DL11-N) LOWEST ACCEPTABLE REV J
THE M7850 MODULE CONTAINS 5 SWITCH PACKS. THEY SHOULD BE CONFIGURED ACCORDING TO THE FOLLOWING TABLE. A DIAGRAM OF THE SWITCH PACKS PRECEDES THE TABLE TO AID IN RAPID SETTING OF THESE SWITCHES.



PHYSICAL POSITION OF SWITCHES ON M7850 MODULE. A "0" INDICATES PROPER SWITCH SETTING WHEN SWITCH IS MOVED TO THAT POSITION.

THE M7850 MODULE CONTAINS ONE JUMPER W1 WHICH IS USED FOR TEST PURPOSES ONLY. THIS JUMPER MUST ALWAYS BE PRESENT.

PRIORITY LEVELS ARE HARDWIRED INTO THE M7850 MODULE.
THE SERIAL LINE UNIT = 004
THE REAL TIME CLOCK = 000

M7850 SWITCH SETTING TABLE

PACK	SWITCH	STATE	
5	1	OFF	SELECT ADDRESS 777560
5	2	OFF	
5	3	OFF	
5	4	ON	
5	5	OFF	
5	6	OFF	
5	7	ON	
5	8	OFF	
5	9	OFF	ENABLE REAL TIME CLOCK
5	10	ON	
4	10	ON	TRANSMIT AT 300 BAUD
3	1	OFF	
3	4	OFF	
3	2	ON	RECEIVE AT 9600 BAUD
3	3	OFF	
3	5	ON	
2	3	ON	SELECT VECTOR 77
2	4	OFF	
2	5	OFF	
2	6	ON	
2	7	OFF	
2	8	OFF	
4	4	OFF	NUMBER OF DATA BITS = 8
4	3	OFF	
4	5	OFF	2 STOP BIT
4	8	OFF	DISABLE PARITY
4	2	ON	ODD PARITY
1	1	ON	ACTIVE TRANSMITTER MODE
1	2	ON	
1	3	OFF	
1	6	OFF	
1	7	ON	
1	4	ON	ACTIVE PAPER TAPE READER MODE
1	5	OFF	
1	8	ON	
1	9	OFF	
1	10	ON	
3	6	ON	ACTIVE RECEIVER MODE
3	7	OFF	
3	8	ON	
3	9	OFF	
3	10	ON	
4	1	OFF	DISABLE BREAK
4	7	OFF	DISABLE ERROR BIT

4) G727 LOWEST ACCEPTABLE REV M
THERE ARE NO SWITCHES OR JUMPERS ON THIS MODULE.

5) M9873-YJ LOWEST ACCEPTABLE REV J
THE M873-YJ MODULE SHOULD ALREADY BE CONFIGURED CORRECTLY. HOWEVER, AS A QUICK VERIFY THE MODULE MAY BE COMPARED AGAINST THE FOLLOWING TABLES.

DIODE FIELD

BOOT FUNCTION	STARTING ADDRESS	BIT 8	BIT 7	BIT 6	BIT 5	BIT 4	BIT 3	BIT 2	BIT 1
N/A	773220	D29 OUT	D25 IN	D21 OUT	D17 OUT	D13 IN	D9 OUT	D5 OUT	D1 OUT
N/A	773030	D30 OUT	D26 OUT	D22 OUT	D18 OUT	D14 IN	D10 IN	D6 OUT	D2 OUT
DL11	773020	D31 OUT	D27 OUT	D23 OUT	D19 OUT	D15 IN	D11 OUT	D7 OUT	D3 OUT
DTE20	773230	D32 OUT	D28 IN	D24 OUT	D20 OUT	D16 IN	D12 IN	D8 OUT	D4 OUT

ROM PART NOS.

LOCATION	PART NUMBER
E16	23412A2
E17	23413A2
E18	23414A2
E20	23415A2

JUMPER CONFIG.

W1 = IN
W2 = OUT
W3 = OUT

RESISTOR R3 SHOULD BE REMOVED.

6) KY11-LB ASSEMBLY LOWEST ACCEPTABLE REV H
A) M7850 (P/O KY11-LB) LOWEST ACCEPTABLE REV D
THERE IS ONLY ONE JUMPER W1 ON THE M7850 MODULE. IT MUST ALWAYS BE INSTALLED.

THERE ARE TWO CABLES SUPPLIED WITH THE KY11-LB MAINT. CONSOLE (P/N 70-11411-10). THESE CABLES ARE USED FOR MAINTENANCE PURPOSES ONLY. THEY SHOULD BE INSTALLED AS PER THIS UNIT ASSY.

8) 5411800 CONSOLE BOARD
LOWEST ACCEPTABLE REV H
THERE ARE NO SWITCHES OR JUMPERS ON THIS MODULE.

THERE IS ONE CABLE (PN70-2214) WHICH CONNECTS THIS MODULE WITH THE M7850 MODULE. IT SHOULD BE INSTALLED AS PER THIS U.A.

7) M9202 LOWEST ACCEPTABLE REV C
THERE ARE NO SWITCHES OR JUMPERS ON THIS MODULE.

8) M9822 LOWEST ACCEPTABLE REV C
THERE ARE NO SWITCHES OR JUMPERS ON THIS MODULE.

9) M7850 LOWEST ACCEPTABLE REV B
THERE ARE 4 JUMPERS ON THE M7850 PARITY CONTROL MODULE. THEY ARE TO BE CONFIGURED AS FOLLOWS.

W1 = IN, W2 = IN, W3 = IN, W4 = IN — SELECT ADDRESS 772150

THESE ARE THE STANDARD SETTINGS FOR THE M7850 JUMPERS THUS, THE JUMPERS SHOULD ALREADY BE CONFIGURED CORRECTLY.

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
SYNC COMM SUB SYSTEM	D	UA	DN20F-0-0	A
SCALE NONE	SHEET 16 OF 25	DIST.		

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10) M9814 LOWEST ACCEPTABLE REV A
THERE ARE NO SWITCHES OR JUMPERS ON THIS MODULE.

11) DB11-M MODULES
THERE ARE NO SWITCHES OR JUMPERS ON ANY OF THE DB11-M MODULES.

A) M938 LOWEST ACCEPTABLE REV E
B) M7213 LOWEST ACCEPTABLE REV S
C) M788 LOWEST ACCEPTABLE REV C
D) M7212 LOWEST ACCEPTABLE REV C
E) M783 LOWEST ACCEPTABLE REV *
F) M784 LOWEST ACCEPTABLE REV E
G) M7248 LOWEST ACCEPTABLE REV C

12) DTE20 MODULES
THERE ARE SOME JUMPERS ON THE DTE20 MODULES. HOWEVER, THEY ARE ALL FACTORY SETTABLE ONLY. THEY SHOULD NOT BE CHANGED.

A) M8562 LOWEST ACCEPTABLE REV E
B) M8563 LOWEST ACCEPTABLE REV J
C) M8564 LOWEST REV F

13) M788* (DL11-W) LOWEST ACCEPTABLE REV P
THE JUMPERS AND SWITCHES FOR THE M788* (DL11-W) MODULE ARE TO BE CONFIGURED ACCORDING TO THE FOLLOWING TABLE

JUMPERS

J1	IN	(TIES EIA DRIVER-TO-REQUEST-TO-SEND LEAD)
J2	OUT	(TIES EIA DRIVER TO FORCE BUSY LEAD)
J3	IN	(ALLOWS REQUEST-TO-SEND TO BE CONTROLLED BY BIT 2 OF THE RECEIVER STATUS REGISTER)
J4	OUT	(FORCES DATA LEADS ONLY MODE OF EIA OPERATION)
J5	IN	(ALLOWS BREAK BIT TO FUNCTION)
J6	IN	(ALLOWS DSET INT TO CAUSE INTERRUPTS)
J7	IN	(ALLOWS DATA SET CONTROL BITS TO BE READ AS PART OF RECEIVER STATUS REGISTER)
J8	IN	(ALLOWS ERROR BITS TO BE READ AS PART OF THE RECEIVER DATA REGISTER)

A3	OUT		A3	IN		A3	OUT	
A4	OUT		A4	IN		A4	IN	
A5	IN		A5	OUT		A5	OUT	
A6	IN		A6	IN		A6	IN	
A7	OUT	SELECT ADDRESS 77563* FOR DN2* #1	A7	OUT	SELECT ADDRESS 77564* FOR DN2* #2	A7	OUT	SELECT ADDRESS 77565* FOR DN2* #3
A8	OUT		A8	OUT		A8	OUT	
A9	OUT		A9	OUT		A9	OUT	
A1*	IN		A1*	IN		A1*	IN	

V3	OUT		V3	IN		V3	OUT	
V4	OUT		V4	IN		V4	IN	
V5	IN	SELECT VECTOR 74* FOR DN2* #1	V5	OUT	SELECT VECTOR 73* FOR DN2* #2	V5	OUT	SELECT VECTOR 72* FOR DN2* #3
V6	IN		V6	IN		V8	IN	
V7	IN		V7	IN		V7	IN	
V8	IN		V8	IN		V9	IN	

N1	IN	ALWAYS IN FOR 11/4* CPU
NB2	OUT	8 BITS
NB1	OUT	
NP	OUT	NO PARITY
EPS	OUT	
2SB	IN	1 STOP BIT
J9	OUT	
J1*	IN	
J11	OUT	

SWITCHES
R SWITCH POSITION 2(RECEIVER SPEED 38* BAUD)
T SWITCH POSITION 9(TRANSMIT SPEED 96** BAUD)
SWITCH POSITION #1 IS THE MOST COUNTER CLOCKWISE POSITION FOR BOTH OF THE ABOVE ROTARY TYPE SWITCHES.
A 4.608 MHZ CRYSTAL (PN 10-09581-7) MUST BE INSTALLED AT POSITION Y1 OF THE MODULE.
BR PRIORITY LEVEL 4 (PRIORITY JUMPER PN 54*778).

13.5) M7891-DA(MSII-LD) LOWEST ACCEPTABLE REV E
THE MSII-LD CONTAINS FIFTEEN JUMPERS AND TWO SWITCHPACKS. THE JUMPERS AND SWITCHES ON THE M7891-DA MODULES SHOULD BE CONFIGURED ACCORDING TO THE FOLLOWING TABLE.

JUMPERS

W1 IN W2 OUT		A ±12V REGULATOR IS SUPPLYING VOLTAGE TO THE MODULE.
W3 OUT W7 IN		ENABLES BATTERY BACK-UP VOLTAGE TO BE ROUTED TO MEMORY REFRESH LOGIC
W4 OUT		UNIBUS OPERATION
W5 OUT W21 IN		INDICATES 4K I/O PERIPHERAL PAGE
W16-W18 AND W2*		ARE FACTORY SETTABLE ONLY. THEY SHOULDN'T BE TAMPERED WITH IN THE FIELD

SWITCH

SWITCH PACK #1

S1 - ON S2 - ON S3 - ON S4 - ON		CSR ADDRESS 772***

SWITCH PACK #2

S1 - ON S2 - ON S3 - ON S4 - ON S5 - ON S6 - ON S7 - ON S8 - ON S9 - ON		ADDRESS SELECTION 0-128K

REVISIONS

CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
SYNC COMM SUB SYSTEM	D	UA	DN20F-0-0	A
SCALE 1/4 SHEET 17 OF 25	DIST.			

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14) M7867 (DUP11-M) LOWEST ACCEPTABLE REV N
A FULLY CONFIGURED DN20 SUBSYSTEM WILL HAVE UP TO 12 M7867 (DUP11-M) MODULES. THEIR ADDRESS AND VECTOR ASSIGNMENTS WILL BE ACCORDING TO THE FOLLOWING CHART.

DN20F CONFIGURATIONS (ADDRESS & VECTORS)

		#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12
DUP11 #1	ADDRESS	760300	760300	760300	760300	760300	760300	760300	760300	760300	760300	760300	760300
	VECTOR	570	570	570	570	570	570	570	570	570	570	570	570
#2	ADDRESS		760310	760310	760310	760310	760310	760310	760310	760310	760310	760310	760310
	VECTOR		600	600	600	600	600	600	600	600	600	600	650
#3	ADDRESS			760320	760320	760320	760320	760320	760320	760320	760320	760320	760320
	VECTOR			610	610	610	610	610	610	610	610	610	610
#4	ADDRESS				760330	760330	760330	760330	760330	760330	760330	760330	760330
	VECTOR				620	620	620	620	620	620	620	620	620
#5	ADDRESS					760340	760340	760340	760340	760340	760340	760340	760340
	VECTOR					630	630	630	630	630	630	630	630
#6	ADDRESS						760350	760350	760350	760350	760350	760350	760350
	VECTOR						640	640	640	640	640	640	640
#7	ADDRESS							760360	760360	760360	760360	760360	760360
	VECTOR							650	650	650	650	650	650
#8	ADDRESS								760370	760370	760370	760370	760370
	VECTOR								660	660	660	660	660
#9	ADDRESS									760400	760400	760400	760400
	VECTOR									670	670	670	670
#10	ADDRESS										760410	760410	760410
	VECTOR										700	700	700
#11	ADDRESS											760420	760420
	VECTOR											710	710
#12	ADDRESS												760430
	VECTOR												720

THERE ARE 2 SWITCH PACKS ON EACH M7867 (DUP11-M) MODULE. THEIR SWITCH SETTINGS ARE AS FOLLOWS IN ORDER TO PROPERLY CONFIGURE THE ABOVE ADDRESS AND VECTOR ASSIGMENTS.

DUP11 #1		
PACK	SWITCH	STATE
E05	1	OFF
E05	2	OFF
E05	3	ON
E05	4	ON
E05	5	ON
E05	6	ON
E05	7	N/A
E05	8	N/A
E116	1	ON
E116	2	ON
E116	3	ON
E116	4	OFF
E116	5	OFF
E116	6	ON
E116	7	ON
E116	8	ON
E116	9	ON
E116	10	ON

DUP11 #2		
PACK	SWITCH	STATE
E05	1	ON
E05	2	ON
E05	3	OFF
E05	4	OFF
E05	5	OFF
E05	6	OFF
E05	7	N/A
E05	8	N/A
E116	1	OFF
E116	2	ON
E116	3	ON
E116	4	OFF
E116	5	OFF
E116	6	ON
E116	7	ON
E116	8	ON
E116	9	ON
E116	10	ON

DUP11 #3		
PACK	SWITCH	STATE
E05	1	ON
E05	2	ON
E05	3	OFF
E05	4	OFF
E05	5	OFF
E05	6	ON
E05	7	N/A
E05	8	N/A
E116	1	ON
E116	2	OFF
E116	3	ON
E116	4	OFF
E116	5	OFF
E116	6	ON
E116	7	ON
E116	8	ON
E116	9	ON
E116	10	ON

DUP11 #4		
PACK	SWITCH	STATE
E05	1	ON
E05	2	ON
E05	3	OFF
E05	4	OFF
E05	5	ON
E05	6	OFF
E05	7	N/A
E05	8	N/A
E116	1	OFF
E116	2	OFF
E116	3	ON
E116	4	OFF
E116	5	OFF
E116	6	ON
E116	7	ON
E116	8	ON
E116	9	ON
E116	10	ON

DUP11 #5		
PACK	SWITCH	STATE
E05	1	ON
E05	2	ON
E05	3	OFF
E05	4	OFF
E05	5	ON
E05	6	ON
E05	7	N/A
E05	8	N/A
E116	1	ON
E116	2	ON
E116	3	OFF
E116	4	OFF
E116	5	OFF
E116	6	ON
E116	7	ON
E116	8	ON
E116	9	ON
E116	10	ON

DUP11 #6		
PACK	SWITCH	STATE
E05	1	ON
E05	2	ON
E05	3	OFF
E05	4	ON
E05	5	OFF
E05	6	OFF
E05	7	N/A
E05	8	N/A
E116	1	OFF
E116	2	ON
E116	3	OFF
E116	4	OFF
E116	5	OFF
E116	6	ON
E116	7	ON
E116	8	ON
E116	9	ON
E116	10	ON

DUP11 #7		
PACK	SWITCH	STATE
E05	1	ON
E05	2	ON
E05	3	OFF
E05	4	ON
E05	5	OFF
E05	6	ON
E05	7	N/A
E05	8	N/A
E116	1	ON
E116	2	OFF
E116	3	OFF
E116	4	OFF
E116	5	OFF
E116	6	ON
E116	7	ON
E116	8	ON
E116	9	ON
E116	10	ON

DUP11 #8		
PACK	SWITCH	STATE
E05	1	ON
E05	2	ON
E05	3	OFF
E05	4	ON
E05	5	ON
E05	6	OFF
E05	7	N/A
E05	8	N/A
E116	1	OFF
E116	2	OFF
E116	3	OFF
E116	4	OFF
E116	5	OFF
E116	6	ON
E116	7	ON
E116	8	ON
E116	9	ON
E116	10	ON

DUP11 #9		
PACK	SWITCH	STATE
E05	1	ON
E05	2	ON
E05	3	OFF
E05	4	ON
E05	5	ON
E05	6	ON
E05	7	N/A
E05	8	N/A
E116	1	ON
E116	2	ON
E116	3	ON
E116	4	ON
E116	5	ON
E116	6	OFF
E116	7	ON
E116	8	ON
E116	9	ON
E116	10	ON

DUP11 #10		
PACK	SWITCH	STATE
E05	1	ON
E05	2	ON
E05	3	ON
E05	4	OFF
E05	5	OFF
E05	6	OFF
E05	7	N/A
E05	8	N/A
E116	1	OFF
E116	2	ON
E116	3	ON
E116	4	ON
E116	5	ON
E116	6	OFF
E116	7	ON
E116	8	ON
E116	9	ON
E116	10	ON

DUP11 #11		
PACK	SWITCH	STATE
E05	1	ON
E05	2	ON
E05	3	ON
E05	4	OFF
E05	5	OFF
E05	6	ON
E05	7	N/A
E05	8	N/A
E116	1	ON
E116	2	OFF
E116	3	ON
E116	4	ON
E116	5	ON
E116	6	OFF
E116	7	ON
E116	8	ON
E116	9	ON
E116	10	ON

DUP11 #12		
PACK	SWITCH	STATE
E05	1	ON
E05	2	ON
E05	3	ON
E05	4	OFF
E05	5	ON
E05	6	OFF
E05	7	N/A
E05	8	N/A
E116	1	OFF
E116	2	OFF
E116	3	ON
E116	4	ON
E116	5	ON
E116	6	OFF
E116	7	ON
E116	8	ON
E116	9	ON
E116	10	ON

THERE ARE 7 JUMPERS ON EACH M7867 (DUP11-M) MODULE. THEY ARE ALL FACTORY SETTABLE FOR COMPATIBILITY WITH BELL 201. BELL 208 AND 209 SERIES MODEMS AND SHOULD NOT HAVE TO BE CHANGED UNLESS ANOTHER TYPE MODEM IS USED.

SHOULD ANOTHER TYPE MODEM BE USED THE JUMPERS MUST BE RE-CONFIGURED SO THAT THEY ARE COMPATIBLE WITH THE TYPE MODEM USED. REFER TO THE DUP11-BA BIT SYNCHRONOUS INTERFACE MAINTENANCE MANUAL (EK-DUP11-MM).

AS A QUICK VERIFY THE STANDARD FACTORY SETTABLE JUMPER SETTINGS ARE AS FOLLOWS:

W1 IN	W5 OUT
W2 OUT	W6 IN
W3 IN	W7 IN
W4 IN	

BR PRIORITY LEVEL 6 (PRIORITY JUMPER P/N 5409780). IS REQUIRED IN DEC SYSTEMS 1090 AND 1091. FOR 1091 AND 1090 SYSTEMS ONLY, REPLACE THE BR5 PRIORITY JUMPER ON THE DUP-11 WITH THE BR6 PRIORITY JUMPER INCLUDED WITH THE DN20F-BA/BB FOR SYSTEMS OTHER THAN THE 1090/1091, LEAVE THE BR5 PRIORITY JUMPER (P/N 5408778) ON THE DUP-11.

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
SYNC COMM SUB SYSTEM	D	UA	DN20F-0-0	A
SCALE NONE	SHEET 18 OF 25		DIST.	

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15) M8264 (KMC11) LOWEST ACCEPTABLE REV F
A FULLY CONFIGURED DN20F SUB-SYSTEM WILL HAVE UP TO 3 M8264 (KMC11) MODULES. THEIR ADDRESS AND VECTOR ASSIGNMENTS WILL BE ACCORDING TO THE FOLLOWING CHART.

	KMC	#1	#2	#3	
KMC11 #1	ADDRESS VECTOR	760540 540	760540 540	760540 540	CONTROLS DUP11 #1 THRU 4
#2	ADDRESS VECTOR		760550 550	760550 550	CONTROLS DUP11 #5 THRU 8
#3	ADDRESS VECTOR			760560 560	CONTROLS DUP11 #9 THRU 12

THERE ARE 2 SWITCH PACKS ON EACH M8264 MODULE. THEIR SWITCH SETTINGS ARE AS FOLLOWS IN ORDER TO PROPERLY CONFIGURE THE ABOVE ADDRESS AND VECTOR ASSIGNMENTS.

KMC11 #1		
PACK	SWITCH	STATE
E85	1	OFF
E85	2	OFF
E85	3	ON
E85	4	ON
E85	5	OFF
E85	6	ON
E85	7	N/A
E85	8	N/A
E110	1	ON
E110	2	ON
E110	3	OFF
E110	4	OFF
E110	5	ON
E110	6	OFF
E110	7	ON
E110	8	ON
E110	9	ON
E110	10	ON

KMC11 #2		
PACK	SWITCH	STATE
E85	1	ON
E85	2	OFF
E85	3	ON
E85	4	ON
E85	5	OFF
E85	6	ON
E85	7	N/A
E85	8	N/A
E110	1	OFF
E110	2	ON
E110	3	OFF
E110	4	OFF
E110	5	ON
E110	6	OFF
E110	7	ON
E110	8	ON
E110	9	ON
E110	10	ON

KMC11 #3		
PACK	SWITCH	STATE
E85	1	OFF
E85	2	ON
E85	3	ON
E85	4	ON
E85	5	OFF
E85	6	ON
E85	7	N/A
E85	8	N/A
E110	1	ON
E110	2	OFF
E110	3	OFF
E110	4	OFF
E110	5	ON
E110	6	OFF
E110	7	ON
E110	8	ON
E110	9	ON
E110	10	ON

NOTE: EACH BACKPLANE SLOT WHICH HAS AN M8264 (KMC11) MODULE INSTALLED MUST HAVE THE BACKPLANE WIRE FROM PIN CA1 TO PIN CB1 OF THAT SLOT REMOVED. SHOULD THE KMC11 EVER BE REMOVED FROM THAT SLOT THE WIRE MUST BE RE-INSERTED IN ORDER TO GUARANTEE THAT THE NPG SIGNAL WILL BE PASSED ALONG THE UNIBUS.

THE ONLY SLOTS AFFECTED BY THIS IN THE DN20F ARE AS FOLLOWS:

DRAWER	BACKPLANE	SLOT #
BASIC (1134A)	DD11-PK	4
EXPANSION	BOTH DD11-DK BACKPLANES	2

BR PRIORITY LEVEL=5 (PRIORITY JUMPER PN 5400770)

II) BACKPLANE CONFIGURATION INFORMATION

1) DD11-PK LOWEST ACCEPTABLE REV D
ALL SLOTS WHICH HAVE NO QUAD OR HEX MODULE INSTALLED MUST HAVE A GRANT CONTINUITY CARD (G727) INSTALLED IN ROW "D" OF THAT SLOT.
FOR MA/MC UNITS ONLY. THE FOLLOWING JUMPERS MUST BE REMOVED:
15V TO 15VB
15V TO 15VB
5V TO 5V2
TO PROVIDE:
12VB ON AR1 ON SLOTS 2-8
12VB ON AS1 ON SLOTS 2-8
5VB ON BD1 ON SLOTS 2-8

2) DD11-DK(7011164 WIRED ASSY REV C)
ALL SLOTS WHICH HAVE NO QUAD OR HEX MODULE INSTALLED MUST HAVE A GRANT CONTINUITY CARD (G727) INSTALLED IN ROW "A" OF THAT SLOT.
FOR MA/MC UNITS ONLY. THE FOLLOWING JUMPERS MUST BE REMOVED:
15V TO 15VB
15V TO 15VB
5V TO 5VB
TO PROVIDE:
12VB ON AR1 SLOTS 2-8
12VB ON AS1 SLOTS 2-8
5VB ON BD1 SLOTS 2-8

3) DD11-CK(7011563 WIRED ASSY REV E)
ALL SLOTS WHICH HAVE NO QUAD OR HEX MODULES INSTALLED MUST HAVE A GRANT CONTINUITY CARD (G727) INSTALLED IN ROW "D" OF THAT SLOT.
FOR MA/MC UNITS ONLY. THE FOLLOWING JUMPERS MUST BE REMOVED:
15V TO 15VB
15V TO 15VB
5V TO 5VB
TO PROVIDE:
12VB ON AR1 SLOTS 2 3
12VB ON AS1 SLOTS 2 3
5VB ON BD1 SLOTS 2 3

4) DB11-M BACKPLANE (LOGIC DB11-A REV T)
THERE ARE NO MODIFICATIONS NECESSARY TO THIS BACKPLANE.

16) HIGH SPEED SYNC ADDRESS AND VECTORS
THE DN20F-B* AND THE UNDEDICATED BACKPLANE SLOTS WHICH MAY ACCOMODATE HIGH SPEED SYNCHRONOUS LINES. UP TO TWO LINES MAY BE INSTALLED IN EACH OPTION FOR A TOTAL OF FOUR LINES WHEN A IS USED WITH A DN20F-B*
THE ADDRESS AND VECTORS FOR THESE ARE SET ACCORDING TO THE FOLLOWING CHART:

HIGH SPPEED SYNCH LINE #	1	2	3	4
1 ADDRESS VECTOR	760740 670	760740 670	760740 670	760740 670
2 ADDRESS VECTOR		760750 700	760750 700	760750 700
3 ADDRESS VECTOR			760760 710	760760 710
4 ADDRESS VECTOR				760770 720

TO SET THE ADDRESS AND VECTORS REFER TO SET-UP PROCEDURES FOR THE FOLLOWING BOARD:

DMR11 M8207-RA

ANY SLOT CONTAING AN M8207-RA MUST HAVE THE BACKPLANE WIRE CONNECTING CA1 AND CB1 REMOVED. IF THE BOARD IS REMOVED THE BACKPLANE WIRE MUST BE REPLACED

THE BR LEVEL FOR HIGH SPEED SYNC LINES IS 5 AND IS SELECTED BY PLACING PART NO 5400770 ON THE M8207-RA

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SYNC COMM SUB SYSTEM	SIZE	CODE	NUMBER	REV.
SCALE	NONE	SHEET 19 OF 25	D	UA	DN20F-0-0	A
			DIST.		

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16) DMR11-AA/AB/AC/AE(M8293) LOWEST ACCEPTABLE REV K?
THE M8293 IS THE LINE UNIT FOR THE DMR11. IT HAS THE CAPABILITY OF BEING CONFIGURED IN SEVERAL DIFFERENT WAYS ACCORDING TO SWITCH SETTINGS AND JUMPERS. REFERENCE THE FOLLOWING TABLE FOR CONFIGURATIONS:

VARIATION	INTERFACE	SPEED
DMR11-A*	EIA RS232C	UP TO 19.2K b/s
DMR11-F*	EIA RS423	UP TO 96K b/s
DMR11-B*	ISO/CCITTV.35	UP TO 1M b/s
DMR11-C*	INTEGRAL MODEM	56K,256K,500K, 1M b/s
DMR11-E*	EIA RS422	UP TO 1M b/s

JUMPERS:

W1-6, W11, W14-W17: OUT
W7-10, W12, W13: IN

IF A BC05C-XX IS USED W7, W8, W10, AND W12 ARE REMOVED. THE DMR11 DOES NOT SUPPORT A BC05C-XX CABLE HOWEVER.

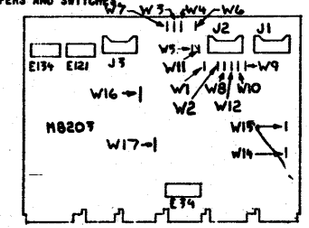
SWITCH PACK E39	DMR11-AA EIA RS-232-C RS-423-A	DMR11-AB CCITT V.35	DMR11-AE EIA RS-422-A	DMR11-AC INTEGRAL MODEM 56K b/s	DMR11-AC INTEGRAL MODEM 1 MEG b/s
S1-4	ON	ON	ON	ON	ON
S5	OFF	ON	OFF	OFF	OFF
S6	OFF	OFF	OFF	OFF	OFF
S7	OFF	OFF	ON	OFF	OFF
S8	OFF	ON	ON	OFF	ON
S9	OFF	ON	ON	OFF	ON
S10	ON	ON	ON	ON	ON

SWITCH PACK E121			
SW1-8	SW9	SW10	CONFIGURATION
ON	ON	ON	DDCMP VERSION 4.0e LESS THAN 1 M b/s *
ON	ON	OFF	DDCMP VERSION 4.0e 1M b/s *
ON	OFF	ON	DMR11 CONNECTED TO DMC11-AR
ON	OFF	OFF	DMR11 CONNECTED TO DMC11-AL

* NOT SUPPORTED BY SYSTEM SOFTWARE

SWITCH PACK E134
SW1-8: OFF
SW9: OFF
SW10: ON

USE THE FOLLOWING DIAGRAM AS A REFERENCE WHEN CHECKING JUMPERS AND SWITCHES.



REFER TO THE DMR11 USERS GUIDE "K-DMR11-UG-001 FOR MORE DETAIL ON JUMPERS AND SWITCHES.

17) DMR11-A*/B*/C*/E*(M8287-RA) LOWEST ACCEPTABLE REV M
THE M8287-RA IS THE MICROPROCESSOR CONTROL BOARD FOR THE DMR11. THE ADDRESS AND VECTOR SWITCHES ARE LOCATED ON THIS BOARD AND ARE SET ACCORDING TO THE FOLLOWING TABLES: (REFERENCE SECTION 16)

ADDRESS TABLE

LINE	SWITCH PACK	SWITCH 10	9	8	7	6	5	4	3	2	1
1	E127	ON	ON	ON	ON	OFF	OFF	OFF	OFF	ON	ON
2	E127	ON	ON	ON	ON	OFF	OFF	OFF	OFF	ON	OFF
3	E127	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	ON
4	E127	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF

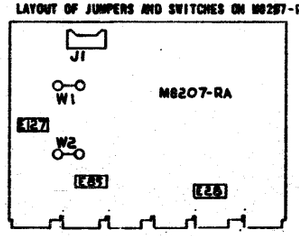
VECTOR TABLE

LINE #	SWITCH PACK	SWITCH 6	5	4	3	2	1
1	E28	ON	ON	OFF	ON	ON	ON
2	E28	ON	ON	ON	OFF	OFF	OFF
3	E28	ON	ON	ON	OFF	OFF	ON
4	E28	ON	ON	ON	OFF	ON	OFF

E28 SWITCH 0:OFF
E28 SWITCH 7:ON
E86 SWITCH 1:ON
E85 SWITCH 2-4:OFF

W1:IN
W2:IN

LAYOUT OF JUMPERS AND SWITCHES ON M8287-RA



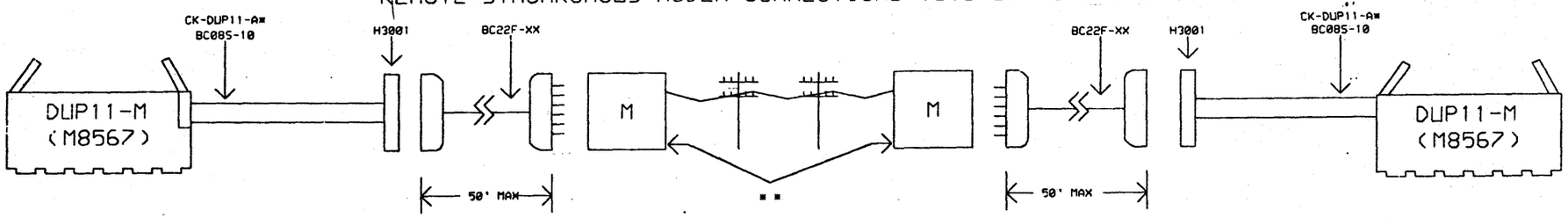
REVISION HISTORY

DATE	ECO NUMBER	REV.

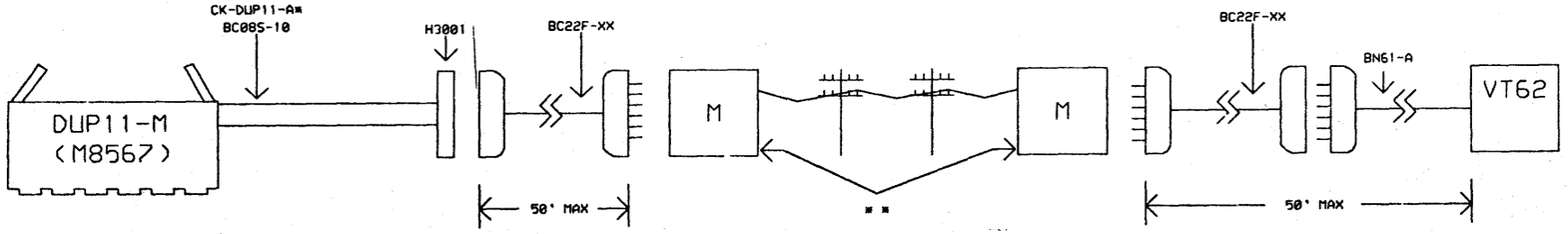
TITLE SYNC COMM SUB SYSTEM

DOCUMENT NUMBER: SIZE D, CODE DUA, NUMBER DN20F-0-0, REV. A
SCALE NONE, SHEET 20 OF 25

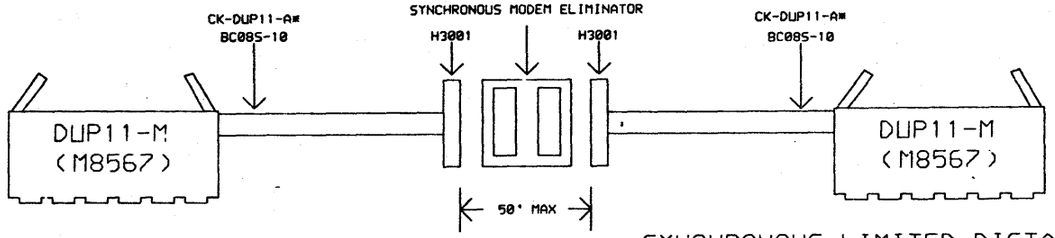
REMOTE SYNCHRONOUS MODEM CONNECTIONS (SYSTEM TO SYSTEM)



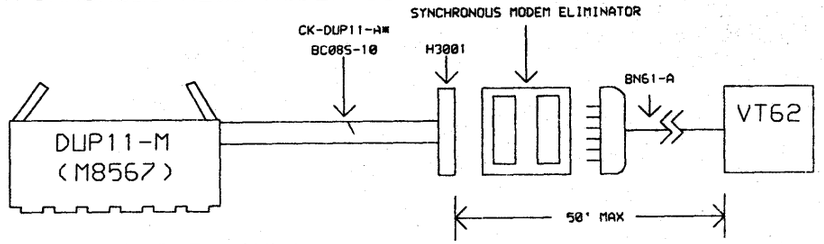
REMOTE SYNCHRONOUS MODEM CONNECTIONS (SYSTEM TO TERMINAL)



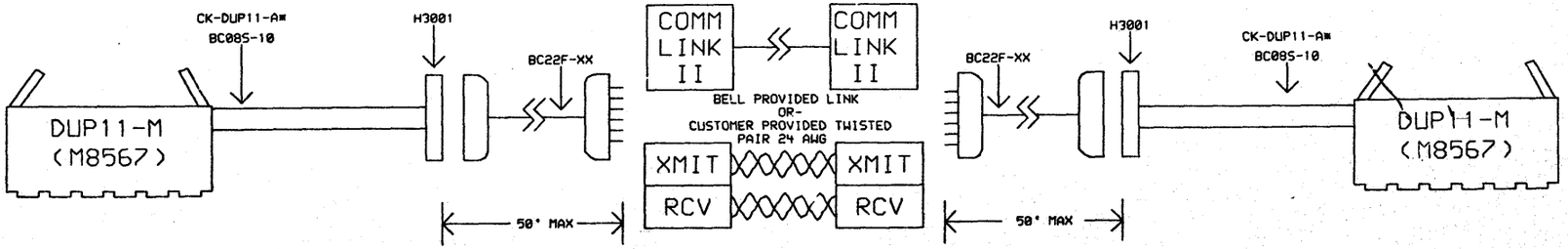
LOCAL SYNCHRONOUS NULL MODEM CONNECTION (SYSTEM TO SYSTEM)



LOCAL SYNCHRONOUS NULL MODEM CONNECTION (SYSTEM TO TERMINAL)



SYNCHRONOUS LIMITED DISTANCE ADAPTERS (SHORT HAUL) SEE DISTANCE TABLE ON SHEET 22



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REVISIONS		
CHK	CHANGE NO.	REV

digital	DRN. ROGER G. DAME	DATE 12-APR-84	ENG.	DATE	TITLE: SYNC COMM. SUB-SYS
P:#2530!<TOWER.AMBER>DN20F8.DRW 10-APR-84 13:23	CHK D.	DATE	BOARD LOCATION: SHEET 21 OF 25		
FIRST USED ON OPTION/MODEL: DN20F	NEXT HIGHER ASSEMBLY: B-DD-DN20F-0-DBU		SIZE D	CODE UA	NUMBER DN20F-0-0 REV. A

MR

1489L INPUT (EIA LEVELS)	1489L OUTPUT (TTL LEVELS)
6V TO 1.5V	0.8V TO 0V
0V TO -6V	2.4V TO 5V

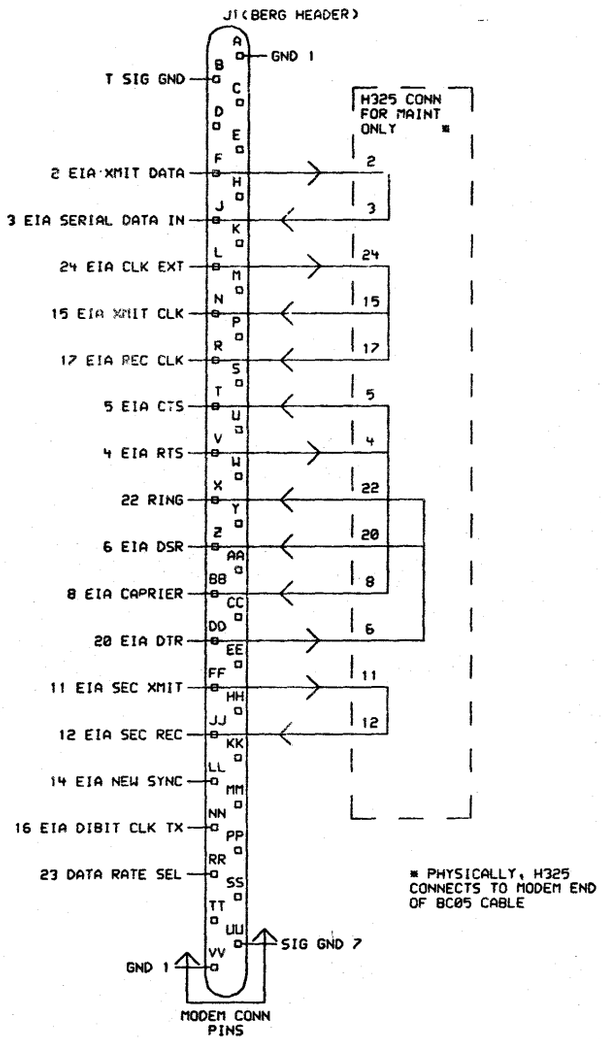
EACH 1489L HAS AN EXTERNAL RESPONSE CONTROL INPUT THAT IS CONNECTED TO ONE SIDE OF A 470 pf CAPACITOR. THE OTHER SIDE OF THE CAPACITOR IS CONNECTED TO GROUND. THE UNGROUNDED SIDE OF THE CAPACITOR IS ALSO CONNECTED TO ONE PAIR OF TERMINALS. THE OTHER TERMINAL IS CONNECTED TO -15V. IF DESIRED, A RESISTOR CAN BE CONNECTED ACROSS THE TERMINALS TO CHANGE THE THRESHOLD VOLTAGE FOR THE LEVEL CONVERSION. THE DUP11 IS SHIPPED WITHOUT RESISTORS INSTALLED.

1488 INPUT (TTL LEVELS)	1488 OUTPUT (EIA LEVELS)
0.4V TO 0V	3V TO 6V
2.4V TO 5V	-3V TO -6V

FOR TIMING AND CONTROL INTERCHANGE CIRCUITS, THE FUNCTION SHALL BE CONSIDERED ON WHEN THE VOLTAGE (V1) ON THE INTERCHANGE CIRCUIT IS MORE POSITIVE THAN PLUS THREE VOLTS WITH RESPECT TO CIRCUIT AB, AND SHALL BE CONSIDERED OFF WHEN THE VOLTAGE (V1) IS MORE NEGATIVE THAN MINUS THREE VOLTS WITH RESPECT TO CIRCUIT AB. THE FUNCTION IS NOT UNIQUELY DEFINED FOR VOLTAGES IN THE TRANSITION REGION BETWEEN PLUS THREE VOLTS AND MINUS THREE VOLTS.

NOTATION	INTERCHANGE VOLTAGE	
	NEGATIVE	POSITIVE
BINARY STATE SIGNAL CONDITION FUNCTION	1 MARKING OFF	0 SPACING ON

J1 (BERG HEADER)



* PHYSICALLY, H325 CONNECTS TO MODEM END OF BC05 CABLE

---- DISTANCE TABLE ----

IF RESTRICTED BY BELL PUB 43401

FOR COMM LINK II

BAUD RATE	---	DISTANCE
2.4 KBPS	---	12.8 KM
4.8 KBPS	---	9.8 KM.
7.2 KBPS	---	3.36 KM
9.6 KBPS	---	2.24 KM
19.2 KBPS	---	1.6 KM

IF CUSTOMER PROVIDED TWISTED PAIR (24 AWG)

BAUD RATE	---	DISTANCE
2.4 KBPS	---	12.8 KM
4.8 KBPS	---	9.6 KM
7.2 KBPS	---	7.36 KM
9.6 KBPS	---	6.88 KM
19.2 KBPS	---	4.96 KM

DB25-PORTS PIN NUMBER	INTERCHANGE CIRCUIT	C.C.I.T.T. EQUIVALENT	RS-232-C DISCRIPTION
1	AA	101	PROTECTIVE GROUND
7	AB	102	SIGNAL GROUND/COMMON RETURN
2	BA	103	TRANSMITTED DATA
3	BB	104	RECIEVED DATA
4	CA	105	REQUEST TO SEND
5	CB	106	CLEAR TO SEND
6	CC	107	DATA SET READY
20	CD	108.2	DATA TERMINAL READY
22	CE	125	RING INDICATOR
8	CF	109	RECIEVED LINE SIGNAL DETECTOR
21	CG	110	SIGNAL QUALITY DETECTOR
23	CH	111	DATA SIGNAL RATE SELECTOR (DTE)
23	CI	112	DATA SIGNAL RATE SELECTOR (DCE)
24	DA	113	TRANSMITTER SIGNAL ELEMENT TIMING (DTE)
15	DB	114	TRANSMITTER SIGNAL ELEMENT TIMING (DCE)
17	DD	115	RECEIVER SIGNAL ELEMENT TIMING (DCE)
14	SBA	118	SECONDARY TRANSMITTED DATA
16	SBB	119	SECONDARY RECEIVED DATA
19	SCA	120	SECONDARY REQUEST TO SEND
13	SCB	121	SECONDARY CLEAR TO SEND
12	SCF	122	SECONDARY REC'D LINE SIGNAL DETECTOR

* * COMPATABLE MODEMS RECOMMENDED CUSTOMER OPTIONS.

208A- BASIC UNCONDITIONED 4 WIRE PRIVATE LINE,
3002 CHANNEL, POINT TO POINT OPERATION.

LINE INTERFACE-4 WIRE PRIVATE LINE.
TRANSMIT TIMING-INTERNAL.
CARRIER-SWITCHED.
REQUEST TO SEND-SWITCHED(8MS CA-CB DELAY).
1 SEC. HOLDCOVER-PROVIDED(IN).
NEW SYNC OPTION-NOT USED-NEW SYNC IS STRAPPED "OFF" WITHIN DATA SET.
DATA SET READY LEAD OPTION-CC IS "OFF" WHEN AL BUTTON IS PUSHED.
GROUNDED-AB CONNECTED TO AA.

208B- 2 WIRE SWITCHED NETWORK-HALF DUPLEX
TRANSMITTER TIMING - DATA SET(INTERNAL).
DATA SET READY LEAD OPTION - CC"ON" WHEN AL BUTTON IS PUSHED.
ACU (WITH OR WITHOUT) - WITHOUT.
AUTO ANSWER - SELECTABLE.

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REVISIONS		
CHK	CHANGE NO.	REV

digital

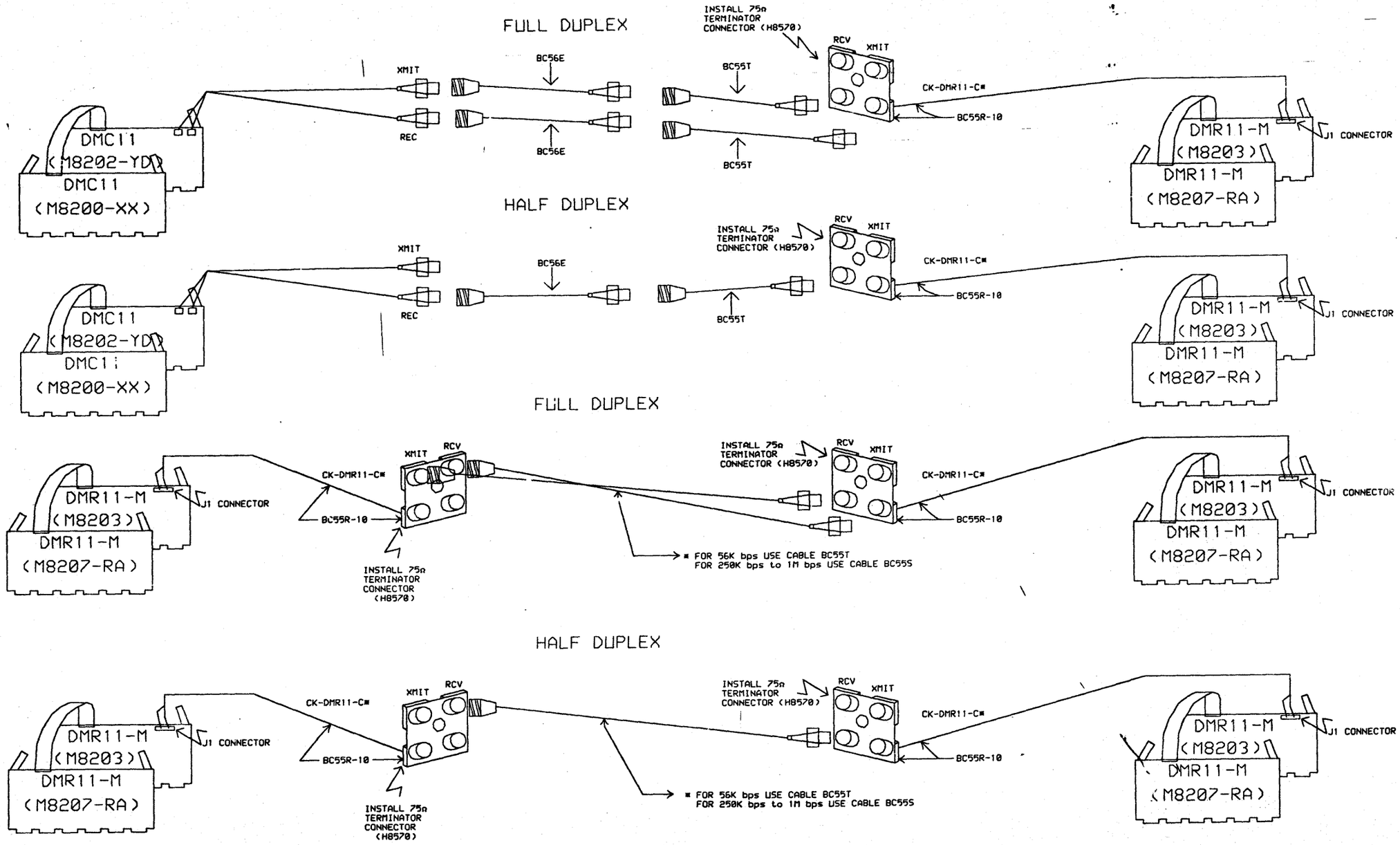
DRN. S.Toomey | DATE 12-APR-84 | ENG. | DATE
CHK'D. | DATE | BOARD LOCATION:
SHEET 22 OF 25

PA2530:<TOWER.AMBER>DN20F6.DBU 10-APR-84 13:23 | NEXT HIGHER ASSEMBLY: B-DD-DN20F-0-DBU
FIRST USED ON OPTION/MODEL: DN20F

TITLE: SYNC COMM. SUB-SYS

SIZE	CODE	NUMBER	REV.
D	UA	DN20F-0-0	A

MR



HIGH SPEED SYNCHRONOUS SYSTEM TO SYSTEM INTERCONNECT

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REVISIONS		
CHK	CHANGE NO.	REV

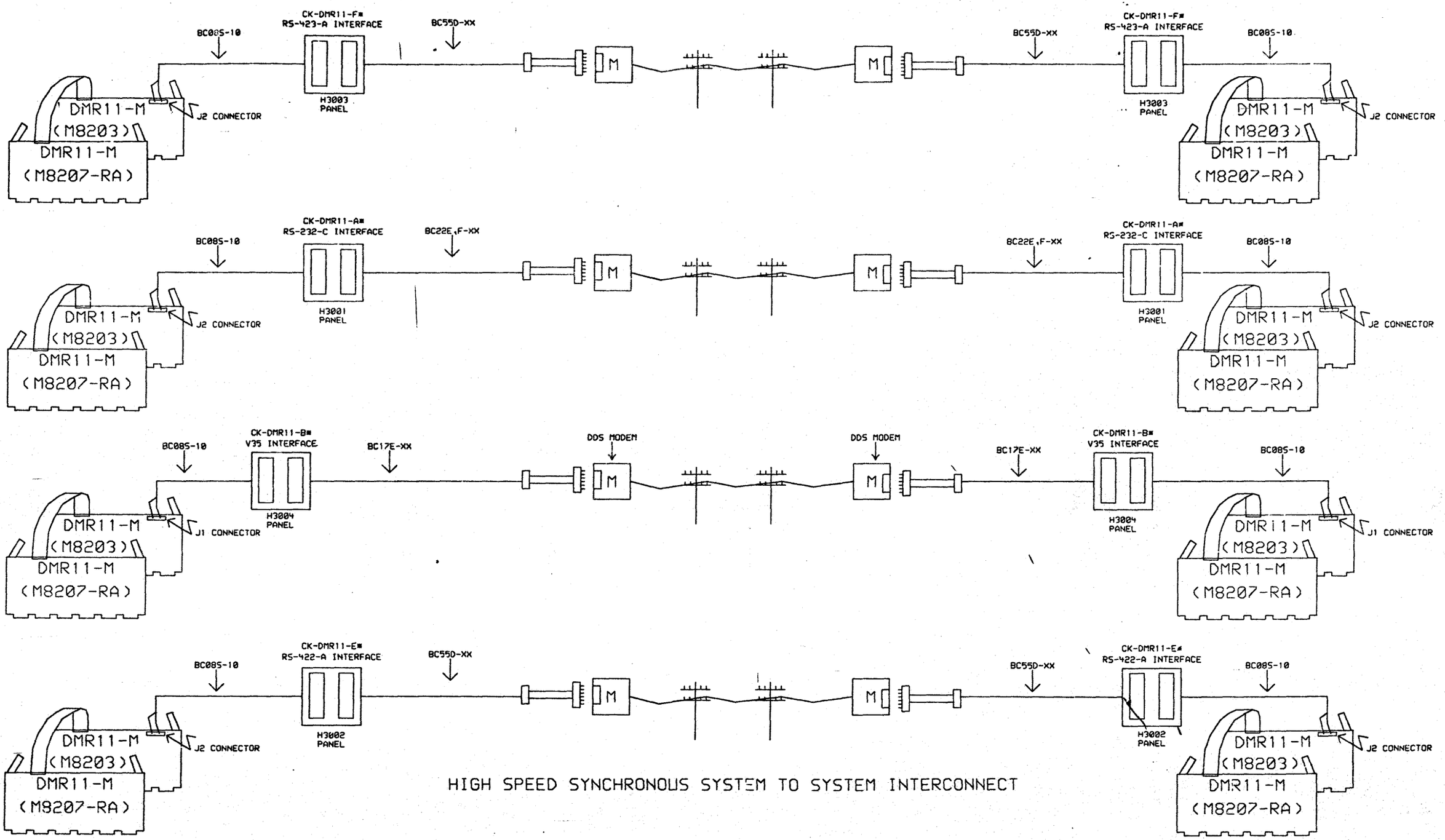
digital

DRN. ROGER G. DAME — DATE 12-APR-84 — ENG. — DATE
CHK'D. — DATE — BOARD LOCATION: — SHEET 23 OF 25
PA2530:(TOWER,AMBER)DN20F7.DRW 10-APR-84 13:24 — NEXT HIGHER ASSEMBLY: B-DD-DN20F-0-DBU
FIRST USED ON OPTION/MODEL: DN20F

TITLE: SYNC COMM. SUB-SYS

SIZE	CODE	NUMBER	REV.
D	UA	DN20F-0-0	A

MR



HIGH SPEED SYNCHRONOUS SYSTEM TO SYSTEM INTERCONNECT

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REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. ROGER G. DAME	DATE 12-APR-84	ENG.	DATE
CHK'D.	DATE	BOARD LOCATION:	
		SHEET 24 OF 25	

PA2530!<TOWER.AMBER>DN20F1.DRW 10-APR-84 13:25
FIRST USED ON OPTION/MODEL: DN20F
NEXT HIGHER ASSEMBLY: B-DD-DN20F-0-DBU

TITLE: SYNC COMM. SUB-SYS

SIZE	CODE	NUMBER	REV.
D	UA	DN20F-0-0	A

MR

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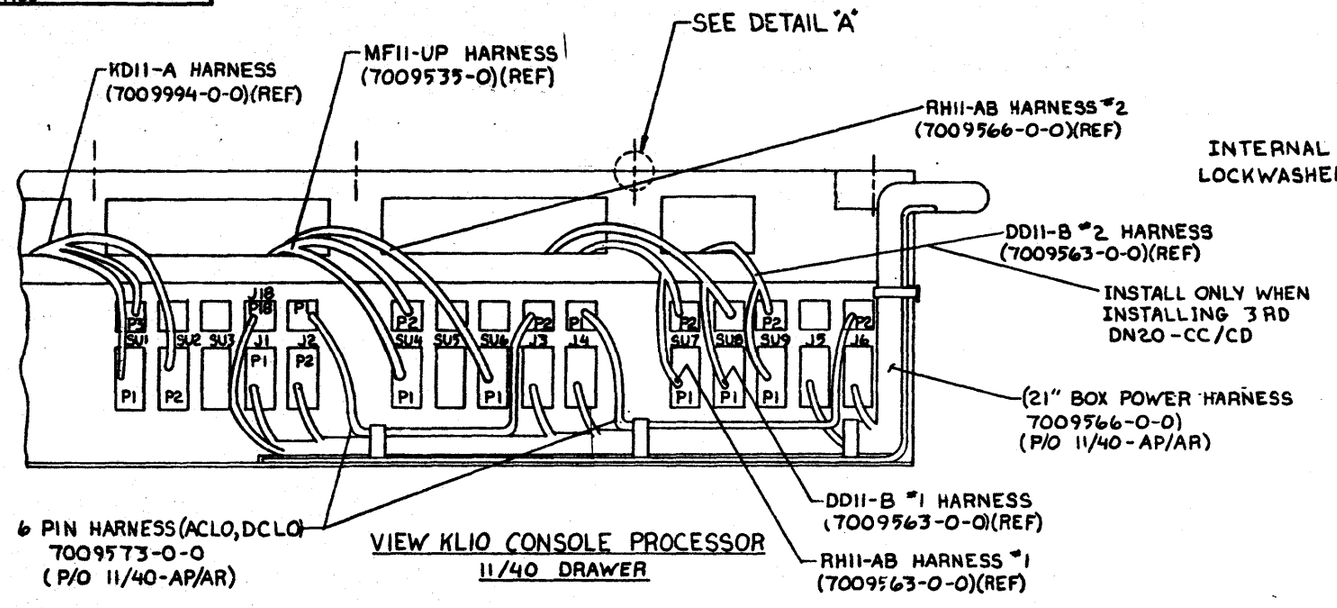
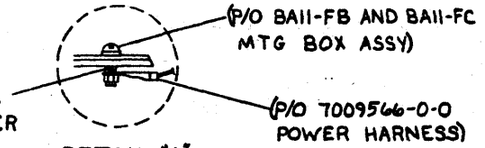
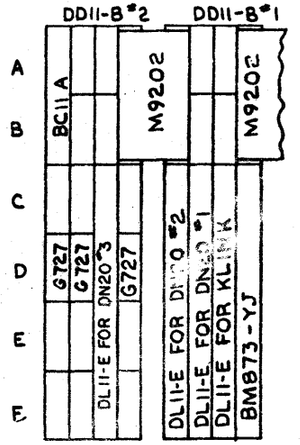


VIEW KL10 CONSOLE PROCESSOR
11/40 DRAWER

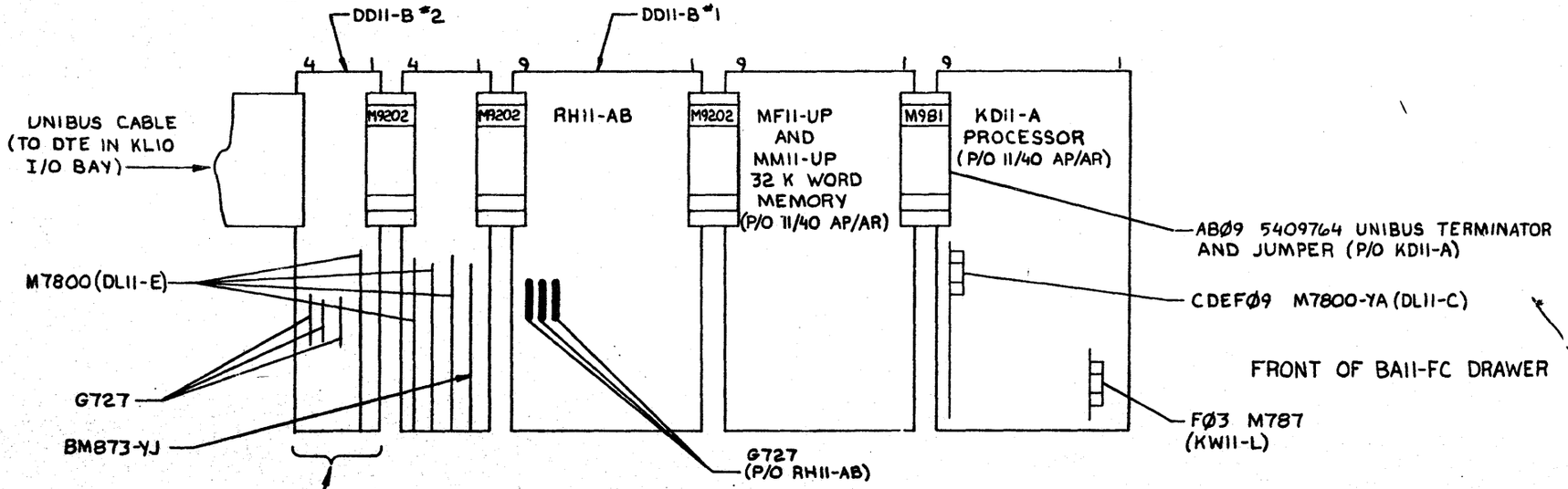


DETAIL "A"
TYP 3 PLCS
IN EACH DRAWER



MODULE UTILIZATION FOR DDII-B BACKPLANES IN KL10 CONSOLE PROCESSOR

CONFIGURATION USED WITH DEC SYSTEMS 1080 AND 1090 ONLY.



MODULE VIEW KL10 CONSOLE PROCESSOR

REVISION HISTORY		
DATE	ECO NUMBER	REV.

TITLE: SYNC. COMM. SUB-SYSTEM

DOCUMENT NUMBER			
SIZE	CODE	NUMBER	REV.
D	UA	DN20-0-0	A

SCALE NONE SHEET 25 OF 25

DUA DN20F-0-0 A

AUTOMATED BY PRTLST.5R(52)

P A R T S L I S T

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION BA A1	BB A1	MA A1	MC A1
					VARIATION REVISION LEVEL:				
1	1	D-AD-7021028-0-DBU	7021028-01		DN20F-MA/MC MECH ASSY.	-	-	1	1
2	2	E-IA-7019485-0-DBU	7019485-00		END PANEL ASSY.	-	-	2	2
3	3	E-UA-7019497-0-DBU	7019497-02		COVER, WELDMENT TOP TERRA COTTA	-	-	1	-
4	4	E-AD-7021016-0-DBU	7021016-01		DOOR ASSY, FRONT SW	-	-	1	1
5	5	E-AD-7019532-0-DBU	7019532-01		DOOR ASSY, REAR SW	-	-	1	1
6	6	K-PL-CKDL11-0-DBP	CKDL11 -AD		CAB KIT FOR DL11 EIA,10'CABLE MO	-	-	1	1
7	7	C-MD-7413983-0-0	7413983-00		CLAMP WIRE BASKET	-	-	20	20
8	8	D-AD-7020138-0-0	7020138-01		UNIBUS PANEL ASSY	-	-	1	1
9	9		9006014-01	A	SCREW,MACH PAN PHIL 4-	-	-	4	4
10	10	D-AD-7014246-0-0	7014246-11	A	CABLE ASSY INTERNAL	-	-	1	1
11	11	E-IA-7021174-0-0	7021174-01		HARNESS DTE REMOTE (ADAPTOR NO.	-	-	1	1
12	12		9006635-00		WASHER,LOCK INTERNAL STEEL	-	-	2	2
13	13	E-MD-7429287-0-DBU	7429287-01	A	DN20F BULKHEAD COVER	-	-	1	1
14	14		9009700-00	A	SCREW,SEMS TRUSS PHIL 10-	1	-	4	4
15	15		3618307-05	A	ASSY,04,01	-	-	1	1
16	16	D-CS-M873-YJ-0	BM873-YJ		BOOT STRAP LOADER	-	-	1	1
17	17	BLANK				0	0	0	0
18	18	K-PL-DUP11-0-DBP	DUP11-M		DUP11 BASE OPTION SINGLE LINE P	1	1	-	-
19	19	C-IA-7021175-0-0	7021175-04		CABLE INTERNAL, RTO	-	-	2	2
20	20	D-UA-M9014-0-0	M9014-00		ADAPTOR BOARD	-	-	1	1
21	21	K-PL-CKDUP11-0-DBP	CKDUP11-AD		CAB KIT FOR DUP11 EIA,10'CBLE MO	1	1	-	-
22	22		9006074-03	A	SCREW,MACH TRUSS PHIL 10-	-	-	6	6
23	23		9006056-01	A	SCREW,MACH PAN PHIL 1/4-	-	-	4	6
24	24		9006676-00	A	WASHER,FLAT SST	-	-	4	4
25	25		9008203-00	A	NUT,HEX EXT TOOTH LCKWSHR 1/4-20	-	-	32	32
26	26		9006633-00	A	WASHER,LOCK INTERNAL STEEL	-	-	4	4
27	27		9006565-00	C	NUT,HEX EXT TOOTH LCKWSHR 10-32	-	-	4	4
28	28	BLANK				0	0	0	0
29	29		9007651-00	B	WASHER,LOCK EXTERNAL STEEL	-	-	4	4
30	30		9006073-03	A	SCREW,MACH TRUSS PHIL 10-	-	-	17	17

REVISION HISTORY		
ENG	ECO NUMBER	REV
	INITIAL	A

BASIC PART NO: DN20F

SECTION A OF A

SECTION.VARIATION INDEX
[A]BA,BB,MA,MC
[B]
[C]
[D]
[E]
[F]

DRN: J. F. BROWN — DATE: 27-JUL-83

CHK'D: JOE DONAHER — DATE: 27 MAR 84

DES.ENG: K SULLIVAN — DATE: 17 APR 84

RESP.ENG.: R SCOTT — DATE: 17 APR 84

MFG.ENG.: J SANACANDRO — DATE: 17 APR 84

ASSEMBLY NUMBER: D-AD-DN20F-0-0

TOP DOCUMENT NUMBER: B-DD-DN20F-0-DBU

D I G I T A L

TITLE: PARTS LIST
SYNC
COMM SUB-SYSTEM

DOCUMENT NUMBER SIZE	CODE	NUMBER	REV
K	PL	DN20F-0-DBP	A

RELEASE DATE: 10-MAY-84

FILE NAME: Z7440A.PLS

EDIT #: 32

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MK

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION BA A1	BB A1	MA A1	MC A1
					VARIATION REVISION LEVEL:				
31	31	BLANK				0	0	0	0
32	32		9008264-00	A	MOUNT, CABLE TIE, ADHESIVE BACKE	-	-	3	3
33	33	D-IA-7021024-0-0	7021024-01	A	BEZEL FRONT SW TERRACOTTA	-	-	1	-
34	34		9007032-00		TIE,CABLE BUNDL.DIA 0-1-3/4"=101	-	-	A/R	A/R
35	35	K-PL-KMC11-0-0	KMC11-M		KMC11 BASE OPT 300NSEC UPROC,DMC	1	-	-	-
36	36		9006557-00	A	NUT,HEX EXT TOOTH LCKWSHR 4-40	-	-	4	4
37	37		9006242-09	A	SCREW,MACH HEX PLN 1/4-	-	-	14	14
38	38	E-IA-7019497-0-DBU	7019497-03		COVER, WELDMENT TOP BLAISI BLUE	-	-	-	1
39	39	D-MD-7429928-0-DBU	7429928-01		CLAMP,POWER CORD CONNECTOR	-	-	1	1
40	40	D-UA-BC11A-0-0	BC11A-13		M919 TO M929 FLAT MYLAR EXTERNAL	-	-	1	1
41	41		9010387-01	A	SCREW,FLAT PHIL 10-	-	-	2	2
42	42	E-IA-7021428-0-0	7021428-15		CABLE, EXTERNAL POWER	-	-	1	1
43	43		9006074-01	A	SCREW,MACH PAN PHIL 10-	-	-	4	4
44	44	D-UA-BC11A-0-0	BC11A-03		CABLE ASSY PDP-11	-	-	1	1
45	45		7021024-02		BEZEL FRONT SW BLASI BLUE	-	-	-	1
46	46		9009537-00	A	FASTENER, SQUEEZE RELEASE, BLACK	-	-	2	2
47	47		3613272-00	B	LABEL,ADH BACK,MYLAR CAP	-	-	4	4
48	48		3617674-00	E	LABEL,SERIAL/POWER W/O UL + CSA	-	-	2	2
49	49		3612449-00		LABEL, UL. FOIL VINYL, ADH BACK,	-	-	2	2
50	50		3613211-01	A	DECAL,CLEAR PREPRINTED CSA 1-1/4	-	-	2	2
51	51		3618307-05		ASSY,04,01	-	-	1	1
52	52	C-IA-7008288-0-0	7008288-15		CABLE ASSY	-	-	2	2
53	53	BLANK				0	0	0	0
54	54		9006724-00		WASHER,LOCK EXTERNAL STEEL	-	-	1	1
55	55	BLANK				0	0	0	0
56	56		BC27C-09		9 FT CABLE,BC05C-10,7426407-0? F	-	-	1	1
57	57		3623205-01		LABEL,DN20F	-	-	6	6

	TITLE		SIZE	CODE	DOCUMENT NUMBER	REV
D I G I T A L	SYNC COMM SUB-SYSTEM	SECTION A OF A	K	PL	DN20F-0-DBP	A

MR

AUTOMATED BY PRTLST.5R(52)

P A R T S L I S T

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION MA A1	MC A1	BA A1	BB A1
					VARIATION REVISION LEVEL:				
1	1		7020843-24		CABLE, DTE REMOTE	1	1	-	-
2	2		7021033-01		HARNESS, DTE, REMOTE (ADAPTOR NO	1	1	-	-
3	3		7020138-01		UNIBUS PANEL ASSY	1	1	-	-
4	4		7008288-25		CABLE ASSY 25FT	1	1	-	-
5	5		BC11Y-25		25FT EXTERNAL SHIELDED UNIBUS CA	1	1	-	-
6	6		BC22D-25		25FT CABLE,ASYNC,NULL MODEM,6 WI	1	1	-	-
7	7		7014002-04	A	CABLE ASSY INTERNAL UNIBUS	1	1	-	-
8	8		CKDL11 -A1		CAB KT FR DL11 EIA,10" CABLE MNT	1	1	-	-
9	9		DL11 -M		M7800 RS232 FULL MODEM CONTROL E	1	1	-	-
10	10		DTE20-00		PDP11 TO KL10 INTERFACE	1	1	-	-
11	11		9006014-01	A	SCREW,MACH PAN PHIL 4-	8	8	-	-
12	12		9006557-00	A	NUT,HEX EXT TOOTH LCKWSHR 4-40	4	4	-	-
13	13	B-TC-DN20F-0-1	MP01712-00		F.M.P.S.(DN20F)	1	1	-	-
14	14		M9014-00		ADAPTOR BOARD	1	1	-	-
15	15		9008269-00	A	TAPE,PLASTIC ADH .75 WDX .005	A/R	A/R	-	-
16	16		1805501-00	H	XTAL 1.000-10MHZ(GEN.SPEC)	1	1	-	-
17	17	K-AR-CKCKREF-0-0			FLEXIBLE OPTION PLAN (REF)	1	1	-	-
18	18		M9310-00		UNIBUS TERMINATOR	1	1	-	-
19	19	SEE NOTES 1 & 2	EKDMR11-TM		*** THIS ITEM IS NOT USED ***	-	-	-	-
20	20	SEE NOTE 2	EKDUP11-MM		DUP-11 BIT SYNC INTERF MAINT MAN	-	-	1	1
21	21	D-CS-H325-0-1	H325 -00		CONN. MODEM TEST	1	1	-	-
22	22	SEE NOTE 2	MP00339-00		F.M.P.S. KMC11	-	-	1	-
23	23	SEE NOTE 2	MPDUP11-00		CUSTOMER PRINTSET DUP11	-	-	1	1
24	24	SEE NOTES 1 & 2	MP00911-00		*** THIS ITEM IS NOT USED ***	-	-	-	-
25	25	D-AD-7021187-0-0	7021187-01		PLATE, ADAPTOR ASSY.	1	1	-	-
26	26	BLANK				0	0	0	0
27	27		7008288-30		CABLE ASSY.	1	1	-	-
28	28	SEE NOTES 1 & 2	EKDMRQN-UG		*** THIS ITEM IS NOT USED ***	-	-	-	-
29	29	SEE NOTE 2	EKDUP11-OP			-	-	1	1
30	30		EKODN2X-TM		DN2X-DNHXX COMM. SUBSYSTEM TECH.	1	1	-	-

REVISION HISTORY			BASIC PART NO: DN20F				
ENG	ECO NUMBER	REV	SECTION A OF A	DRN: J. BROWN	DATE: 12-DEC-83	DIGITAL	
	INITIAL	A	SECTION.VARIATION INDEX [A]MA,MC,BA,BB	CHK'D: JOE DONAHER	DATE: 12 APR 84	TITLE PARTS LIST DN20F SHIP LIST KL10-B,C,D,E,R	
			[B]	DES.ENG: K SULLIVAN	DATE: 17 APR 84	DOCUMENT NUMBER	
			[C]			SIZE: K	CODE: PL
			[D]	RESP.ENG.: R SCOTT	DATE: 17 APR 84	NUMBER: DN20F-SH-DBP	REV: A
			[E]	MFG.ENG.: JOE SWEENEY	DATE: 17 APR 84	RELEASE DATE: 17-APR-84	
			[F]	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER: B-DD-DN20F-0-DBU	FILE NAME: Z8512A.PLS	EDIT #: 4

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MR

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION MA	MC	BA	BB
				VARIATION REVISION LEVEL:	A1	A1	A1	A1

31 NOTE: 1. FOR DMR11 SHIPMENTS
32 NOTE: 2. ONLY ONE PER SHIPMENT

	TITLE		SIZE	CODE	DOCUMENT NUMBER	REV
D I G I T A L	DN20F SHIP LIST KL10-B,C,D,E,R	SECTION A OF A	K	PL	DN20F-SH-DBP	A

MR

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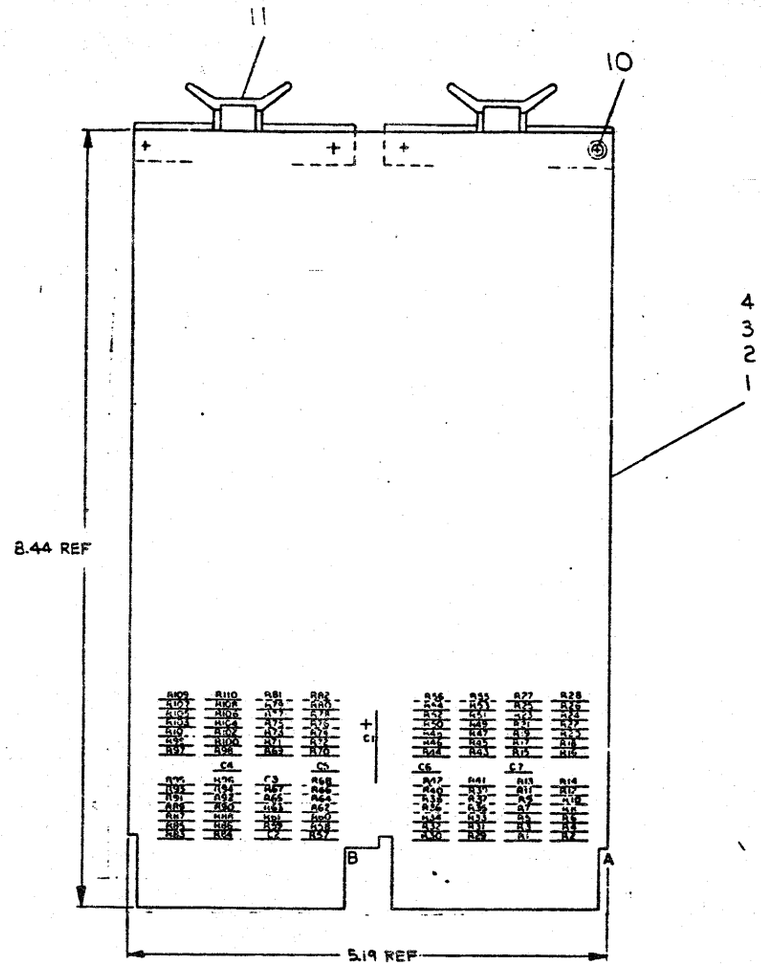
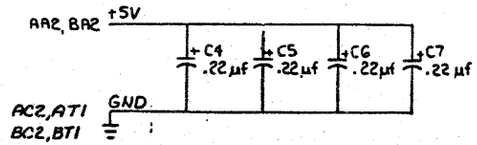
NOTES:





IC TYPE	GND	+ 5V

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

IC PIN LOCATIONS

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
REF		X-Y COORDINATE HOLE LOCATION	K-CO-M9306-0-4	1
REF		ASSY DRILLING HOLE LAYOUT	D-AH M9306-0-5	2
REF		MODULE ECO HISTORY	B-WH M9306-0-6	3
1		ETCHED CIRCUIT BOARD	5011509	4
2	C2.C3	CAPACITOR, 1000pf, 250V 20% DISC	1300943	5
1	C1	CAPACITOR, 39uf, 10V, 10%	1000076	6
4	C4.C5.C6.C7	CAPACITOR, 22uf, 50V, CER	1010274-01	7
51	R2.R4.R6.R8.R10.R12.R14.R16 R18.R20.R22.R24.R26.R28.R30 R32.R34.R40.R42.R44.R46.R48 R50.R52.R54.R57.R59.R61.R63 R65.R67.R68.R69.R71.R73.R77 R79..83.R85.R87.R89.R91.R95 R97.R99.R101.R103.R105.R107 R109.R93	RESISTOR, 383, 1/4W, 1%	1305125	8
49	R1.R3.R5.R7.R9.R11.R13.R15 R17.R19.R21.R23.R25.R27.R29 R31.R33.R39.R41.R43.R45.R47 R49.R51.R53.R58.R60.R62.R64 R66.R70.R72.R74.R76.R80.R84 R86.R88.R90.R92.R94.R96.R98 R100.R102.R104.R106.R108. R110	RESISTOR, 178, 1/4W, 1%	1311422	9
4		EYELETS	9008732	10
2		HANDLE, FLIP CHIP (MAGENTA)	9008337-06	11

PARTS LIST

ETCH BOARD REV B

FIRST USED ON OPTION MODEL
11/A05

DEC NO.	EIA NO.

SEMICONDUCTOR CONVERSION CHART

DEC NO.	EIA NO.

T. DUBANIEWICZ 4-17-75 M9306-00002 C

T. DUBANIEWICZ M9306-00001 B

REV	CHANGE NO	CHK
B		
C		

REVISIONS

DRN. R. Conley DATE 11/4/75
CHK'D. DATE
ENG. DATE 5/5/75
PROJ. ENG. DATE 5/5/75
PROD. DATE 5/6/75
NEXT HIGHER ASSY
SCALE
SHEET 1 OF 2
DIST

digital EQUIPMENT CORPORATION

TITLE
PDP 11
TERMINATOR

SIZE D | CODE CS | NUMBER M9306-0-1 | REV. C

D CS M9306-0-1 C

B

A

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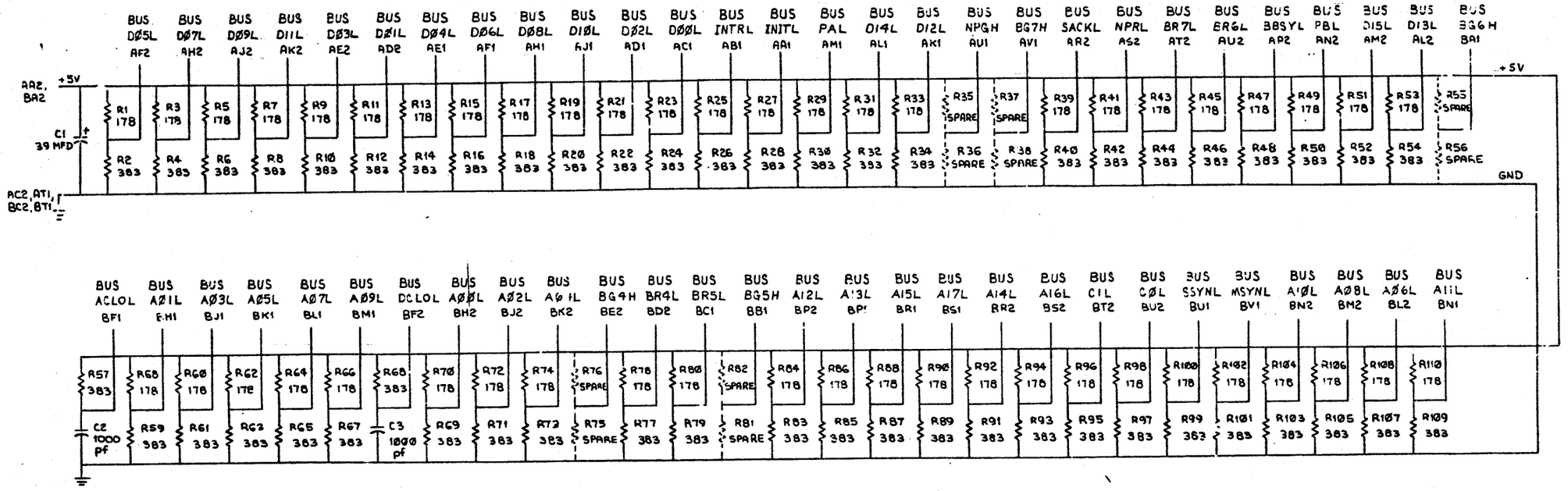

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
PDP 11 TERMINATOR	D	CS	M9306-0-1	C
SCALE	SHEET 2 OF 2	DIST.		

DEC FORM NO. DRD 139

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

DRAWING DIRECTORY

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CUSTOMER PRINT SET INDEX

SEQUENCE		SEQUENCE
RESTART LOADER (PL)	A-PL-BM873-Ø	
RESTART LOADER	D-CS-M873-Ø-1	
WORD LISTING OF ROM CONTENTS (FOR M873-YA)	B-AP-M873-Ø-9	
WORD LISTING OF ROM CONTENTS (FOR M873-YB)	B-AP-M873-Ø-14	
WORD LISTING OF ROM CONTENTS (FOR M873-YC)	B-CS-M873-Ø-17	
WORD LISTING OF ROM CONTENTS (FOR M873-YD)	B-CS-M873-Ø-22	
WORD LISTING OF ROM CONTENTS (FOR M873-YF)	B-CS-M873-Ø-27	
WORD LISTING OF ROM CONTENTS (FOR M873-WA)	K-CS-M873-0-32	
WORD LISTING OF ROM CONTENTS (FOR M873-YG)	B-CS-M873-Ø-33	
WORD LISTING OF ROM CONTENTS (FOR M873-YH)	B-CS-M873-Ø-34	
WORD LISTING OF ROM CONTENTS (FOR M873-YJ)	B-GL-M873-Ø-35	

THIS IS PRINT SET

UNIT VARIATIONS

VAR	TITLE	PRINT SET
M873-Ø	RESTART LOADER	1
BM873 YA	RESTART LOADER	1
BM873 YB	RESTART LOADER	1
BM873-YC	RESTART LOADER	1
BM873 YD	RESTART LOADER	1
BM873-YF	RESTART LOADER	1
BM873-WA	RESTART LOADER DN80 SERIES	1
BM873-YG	RESTART LOADER	1
BM873-YH	RESTART LOADER	1
BM873-YJ	RESTART LOADER	

REVISIONS		
DATE	CHG. NO.	REV
10/75	BM873-4	D
10/75	BM873-5	E
5/76	BM873-6	F
4-77	BM873-7	H

USED ON OPTION/MODEL		DRN.	DATE	TITLE
		K. GLEEZEN	11/73	RESTART LOADER
		CHK'D. K. GLEEZEN	DATE 11/73	
		PROJ ENG. R. DIETER	DATE 11/73	
		PROD. J. BORENSTEIN	DATE 11/73	SIZE B / CODE DD / NUMBER BM873 Ø / REV H
		FIELD SERV. G. KLOPPMAN	DATE	DIST

SHEET 1 OF 2

DRB 106

CUSTOMER PRINT SET				MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
X				X	1	A-PL-BM873-Ø-Ø	A	1	RESTART LOADER (PL)	
				X		A-SP-BM873-Ø-1		16	BM873 ENG. SPECIFICATION	
				X		A-SP-BM873-Ø-2		1	BM873 TEST PROCEDURE	
X						A-AL-BM8873Ø-3		1	BM873 ACCESSORY LIST	
X				X	2	D-CS-M873-Ø-1	#	4	RESTART LOADER	
						K-CO-M873-Ø-4		1	X-Y COORDINATE HOLE LOCATION	
						D-AH-M873-Ø-5		1	ASSY/DRILLING HOLE LAYOUT	
				X		B-MH-M873-Ø-6		1	MODULE ECO HISTORY	
				X		K-RL-M873-Ø-7	#	9	ROM LISTING (FOR 23044A2)	
				X		K-RL-M873-Ø-8	#	9	ROM LISTING (FOR 23045A2)	
X				X		B-AP-M873-Ø-9	#	1	WORD LISTING OF ROM CONTENTS	
									(FOR M873-YA)	
				X		K-RL-M873-Ø-1Ø		9	ROM LISTING (FOR 23089A2)	
				X		K-RL-M873-Ø-11		9	ROM LISTING (FOR 23090A2)	
				X		K-RL-M873-0-12		9	ROM LISTING (FOR 23091A2)	
				X		K-RL-M873-Ø-13		9	ROM LISTING (FOR 23092A2)	
X				X		B-AP-M873-Ø-14		1	WORK LISTING OF ROM CONTENTS	
									(FOR M873-YB)	
				x	4	K-RL-M873-0-7		9	ROM LISTING (FOR 23044A2)	
				x		K-RL-M873-0-8		9	ROM LISTING (FOR 23045A2)	
				x		K-CS-M873-0-15		9	ROM LISTING (FOR 23109A2)	
				x		K-CS-M873-0-16		9	ROM LISTING (FOR 23110A2)	
x				x		B-CS-M873-0-17		1	WORD LISTING OF ROM CONTENTS	
									(FOR M873YC)	
				x	5	K-CS-M873-0-18		9	ROM LISTING (FOR 23095A2)	
				x		K-CS-M873-0-19		9	ROM LISTING (FOR 23096A2)	
				x		K-CS-M873-0-20		9	ROM LISTING (FOR 23097A2)	
				x		K-CS-M873-0-21		9	ROM LISTING (FOR 23098A2)	
x				X		B-CS-M873-0-22		1	WORD LISTING OF ROM CONTENTS	
									(FOR M873 YD)	
				x	6	K-CS-M873-Ø-23		9	ROM LISTING (FOR 23215A2)	
				x		K-CS-M873-Ø-24		9	ROM LISTING (FOR 23216A2)	
				x		K-CS-M873-Ø-25		9	ROM LISTING (FOR 23217A2)	
				x		K-CS-M873-Ø-26		9	ROM LISTING (FOR 23218A2)	
				x		B-CS-M873-Ø-27		1	WORD LISTING OF ROM CONTENTS	
									(FOR M873-YF)	

CUSTOMER PRINT SET				MFG SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
				X	7	K-CS-M873-0-28		9	ROM LISTING (FOR 23225A2)	
				X		K-CS-M873-0-29		9	ROM LISTING (FOR 23226A2)	
				X		K-CS-M873-0-30		9	ROM LISTING (FOR 23227A2)	
				X		K-CS-M873-0-31		9	ROM LISTING (FOR 23228A2)	
X				X		K-CS-M873-0-32		1	WORD LISTING OF ROM CONTENTS	
									(FOR BM873-WA)	
				X	8	A-PS-23338A2-Ø-Ø		3	ROM LISTING(FOR 23338A2)	
				X		A-PS-23339A2-Ø-Ø		3	ROM LISTING(FOR 23339A2)	
				X		A-PS-23340A2-Ø-Ø		3	ROM LISTING(FOR 2334ØA2)	
				X		A-PS-23341A2-Ø-Ø		3	ROM LISTING(FOR 23341A2)	
X				X		B-CS-M873-Ø-33		1	WORD LISTING OF ROM CONTENTS	
									(FOR BM873-YG)	
				X	9	A-PS-23327A2-Ø-Ø		3	ROM LISTING(FOR 23327A2)	
				X		A-PS-23328A2-Ø-Ø		3	ROM LISTING(FOR 23328A2)	
				X		A-PS-23329A2-Ø-Ø		3	ROM LISTING(FOR 23329A2)	
				X		A-PS-2333ØA2-Ø-Ø		3	ROM LISTING(FOR 23330A2)	
X				X		B-CS-M873-Ø-34		1	WORD LISTING OF ROM CONTENTS	
									(FOR BM873-YH)	
				X		A-PS-23412A2-0-0		3	ROM LISTING (FOR 23412A2)	
				X		A-PS-23413A2-0-0		3	ROM LISTING (FOR 23413A2)	
				X		A-PS-23414A2-0-0		3	ROM LISTING (FOR 23414A2)	
				X		A-PS-23415A2-0-0		3	ROM LISTING (FOR 23415A2)	
X				X		B-GL-M873-0-35		1	WORD LISTING OF ROM CONTENTS	
									(FOR BM873-YJ)	

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		SIZE	CODE	NUMBER	REV
RESTART LOADER	SHEET 2 OF 2	B	DD	BM873-Ø	H

DEC 16-(325)-1062-2B-R972

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY [illegible]	CHECKED [illegible]	SECTION
DATE 11/30/73	DATE 11/30/73	
ENG R. Dieter	PROD [illegible]	ISSUED SECT.
DATE 11-30-73	DATE 11/30/73	

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION											
			M873-Ø	BM873-YA	BM873-YB	BM873-YC	BM873-YD	BM873-YF	BM873-YG	BM873-YH	BM873-YJ			
	D-CS-M873-Ø	RESTART LOADER	–	–	–	–	–	–	–	–	–			

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.	ECO NO.
RESTART LOADER	B-DD-BM873-Ø	A	PL	BM873-Ø-Ø	C	BM873-00007
	SHEET 1 OF 1	DIST.				

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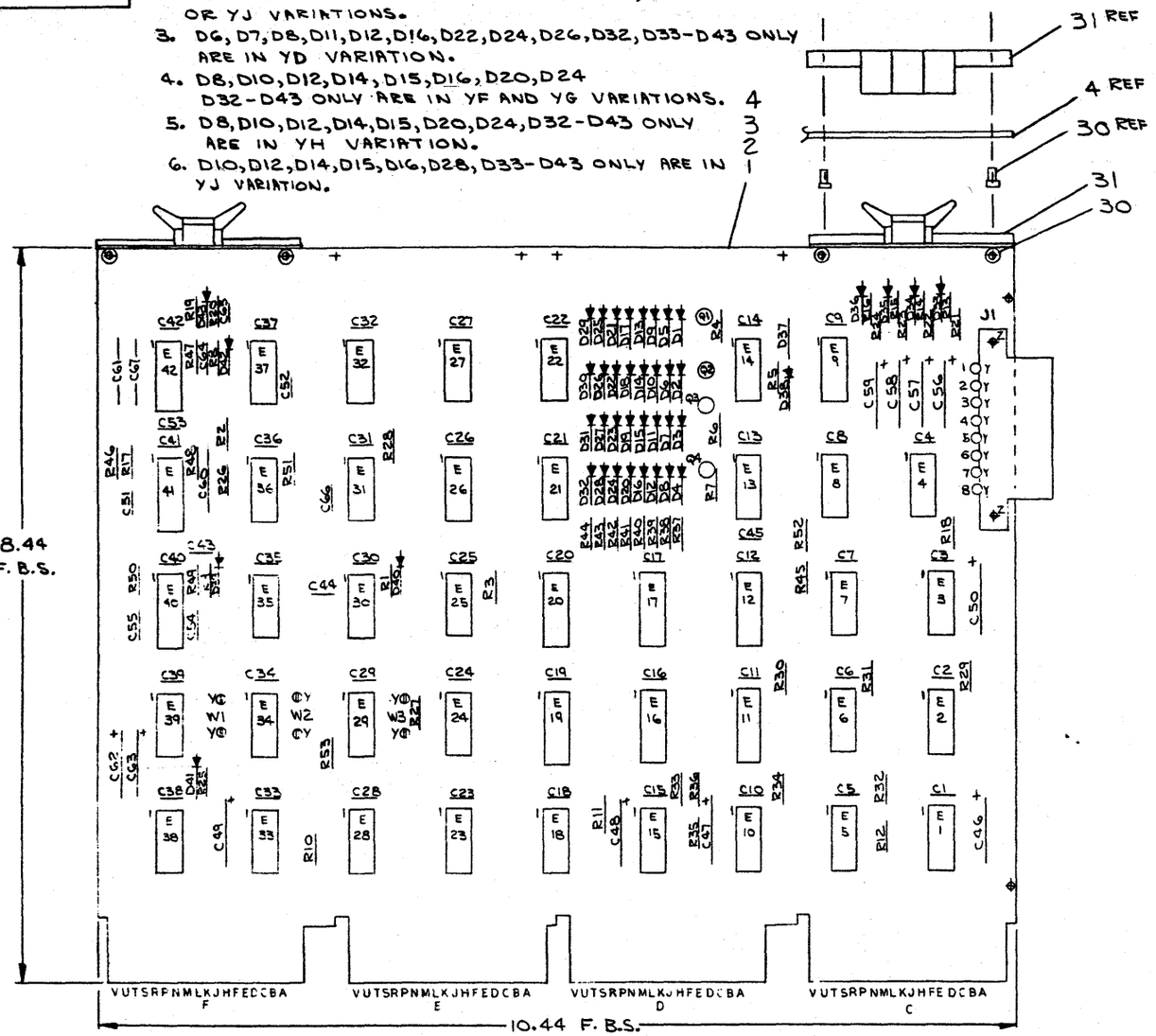
NOTES:

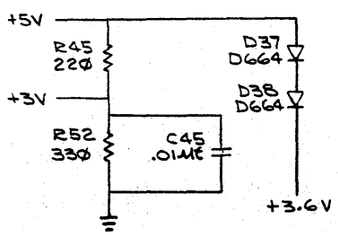
1. E4 MUST BE AN 11380 PART NO. 19-11113.
2. R3 WILL NOT BE USED IN THE YD, YF, YG, YH OR YJ VARIATIONS.
3. D6, D7, D8, D11, D12, D16, D22, D24, D26, D32, D33-D43 ONLY ARE IN YD VARIATION.
4. D8, D10, D12, D14, D15, D16, D20, D24 D32-D43 ONLY ARE IN YF AND YG VARIATIONS.
5. D8, D10, D12, D14, D15, D20, D24, D32-D43 ONLY ARE IN YH VARIATION.
6. D10, D12, D14, D15, D16, D28, D33-D43 ONLY ARE IN YJ VARIATION.

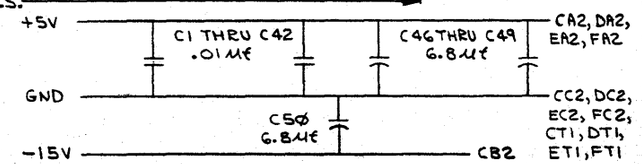


8640	1	8
74175	8	16
11380	1	8
74123	8	16
74187	8	16
IC TYPE	GND	+5V

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

IC PIN LOCATIONS





PARTS LIST CONTINUED ON SHEET 2

M873-YJ	M873-YH	M873-YG	M873-YF	M873-YE	M873-YD	M873-YC	M873-YB	M873-YA	M873-Ø			
REF	REF	REF	REF		REF	REF	REF	REF	REF		X-Y COORDINATE HOLE LOCATION	K-CO-M873-0-4	1
REF	REF	REF	REF		REF	REF	REF	REF	REF		ASSY/DRILLING HOLE LAYOUT	D-MH-M873-0-5	2
REF	REF	REF	REF		REF	REF	REF	REF	REF		MODULE ECO HISTORY	B-MH-M873-0-6	3
1	1	1	1		1	1	1	1	1		ETCHED CKT BRD	5010703	4
1	1	1	1		1	1	1	1	1	C51	CAP 33PF 100V DM	1000009	5
1	1	1	1		1	1	1	1	1	C52	CAP 100PF 100V DM	1000016	6
2	2	2	2		2	2	2	2	2	C65, C66	CAP 470PF 100V DM	1000024	7
46	46	46	46		46	46	46	46	46	C1-C45, C53	CAP .01MF 50V 20% DISC	1001610-01	8
1	1	1	1		1	1	1	1	1	CG4	CAP .15MF 35V 20 TANT	1002180	9
2	2	2	2		2	2	2	2	2	C54, 55	CAP 1MF 35V 10% TANT	1001776	10
4	4	4	4		4	4	4	4	4	C56-C59	CAP 2.2MF 35V 10% TANT	1002431	11
2	2	2	2		2	2	2	2	2	C60, C61	CAP 3.3MF 20V 10% TANT	1005334	12
5	5	5	5		5	5	5	5	5	C46-C50	CAP 6.8MF 35V 10% TANT	1005306	13
3	3	3	3		3	3	3	3	3	C62, C63, C67	CAP 39MF 10V 10% TANT	1000076	14
17	19	20	20		21	43	43	43	43	D1-D43	DIODE DG64 (SEE NOTES 3,4,5&6)	1100114	15
1	1	1	1		1	1	1	1	1	J1	CONNECTOR	1209340-00	16
5	5	5	5		5	5	5	5	5		PINS CONTACT	1209456-01	17
1	1	1	1		1	1	1	1	1	R51	RES 100 1/4W 5%	1300229	18
9	9	9	9		9	9	9	9	9	R37-R45	RES 220 1/4W 5%	1300271	19
1	1	1	1		1	1	1	1	1	R52	RES 330 1/4W 5%	1300295	20
8	8	8	8		8	8	8	8	8	R29-R36	RES 470 1/4W 5%	1300316	21
12	12	12	12		12	13	13	13	13	R1-R12, R20	RES 1K 1/4W 5% (SEE NOTE 2)	1300365	22
8	8	8	8		8	8	8	8	8	R21-R28	RES 4.7K 1/4W 5%	1300447	23
8	8	8	8		8	8	8	8	8	R13-R19, R53	RES 10K 1/4W 5%	1300479	24
5	5	5	5		5	5	5	5	5	R46-R50	RES 18K 1/4W 5%	1302465	25
4	4	4	4		4	4	4	4	4	Q1-Q4	TRANS MXA855	1510706	26
2	2	2	2		2	2	2	2	2		SCREW, NYLON	9006401-4	27
2	2	2	2		2	2	2	2	2		NUT, HEX, NYLON	9007992	28
6	6	6	6		6	6	6	6	6		SPLIT LUG	9006735	29
8	8	8	8		8	8	8	8	8		EYELET	9006732	30
4	4	4	4		4	4	4	4	4		HANDLE FLIP/CHIP MAGENTA	9008337-06	31
6	6	6	6		6	6	6	6	6	E6, 7, 8, 9, 13, 25	IC 7400	1905575	32
1	1	1	1		1	1	1	1	1	E34	IC 7404	1905586	33
1	1	1	1		1	1	1	1	1	E31	IC 7410	1905576	34
1	1	1	1		1	1	1	1	1	E29	IC 7430	1905578	35
4	4	4	4		4	4	4	4	4	E14, 21, 30, 37	IC 7474	1905547	36
3	3	3	3		3	3	3	3	3	E40, 41, 42	IC 74123	1910436	37
2	2	2	2		2	2	2	2	2	E11, 12	IC 74175	1910651	38
8	8	8	8		8	8	8	8	8	E1, 2, 3, 5, 15, 24, 28, 36	IC 8881	1909705	39
5	5	5	5		5	5	5	5	5	E22, 26, 27, 32 35	IC 8815	1909713	40
—	—	—	—		1	1	1	1	1	E4	IC 11380	1911113	41
—	—	—	—	—	1	—	1	—	—	E16	IC 74187	23044-A2	42
—	—	—	—	—	1	—	1	—	—	E17	IC 74187	23045-A2	43
—	—	—	—	—	—	1	—	—	—	E16	IC 74187	23089-A2	44
—	—	—	—	—	—	1	—	—	—	E17	IC 74187	23090-A2	45
—	—	—	—	—	—	1	—	—	—	E19	IC 74187	23091-A2	46
QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.

PARTS LIST

ETCH BOARD REV D

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

SEMICONDUCTOR CONVERSION CHART

REV	CHANGE NO.	ORIGINATED	CHK
B	M873-00001	3-18-74	R. DIETER
C	M873-00002	4-8-74	R. DIETER
D	M873-00003	9-24-74	R. DIETER
E	M873-00004	4-3-75	R. DIETER
F	M873-00005	11-3-75	R. DIETER
G	M873-00006	2-20-76	R. DIETER
H	M873-MROOT	8-19-77	R. DIETER
J	M873-MROOT	11-10-78	S. HOLMES

REVISIONS

DRN.		11-10-78
CHK'D		11-30-78
ENG.		11-30-78
PROJ. ENG.		11-30-78
PROD.		11-30-78
NEXT HIGHER ASSY.	8-DD-BM873-0	
SCALE	NONE	
SHEET	1 OF 4	

FIRST USED ON PDP 11

digital

TITLE

RESTART LOADER

SIZE	CODE	NUMBER	REV.
D	CS	M873-Ø-1	J
DIST.			

CS M873-Ø-1 J

1/MK

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SEE PARTS LIST

M873-YA	E19, E20	MMI 6300	OPTIONAL
M873-YB	E19, E20	74187 OR EQUIV.	REQUIRED
M873-YC	E19, E20	74187 OR EQUIV.	REQUIRED
M873-YD	E19, E20	74187 OR EQUIV.	REQUIRED
M873-YE			
M873-YF	E19, E20	74187 OR EQUIV	REQUIRED
M873-YG	E19, E20	74187 OR EQUIV	REQUIRED
M873-YH	E19, E20	74187 OR EQUIV	REQUIRED
M873-YJ	E19, E20	74187 OR EQUIV	REQUIRED

M873-YU	M873-YH	M873-YG	M873-YF	M873-YE	M873-YD	M873-YC	M873-YB	M873-YA	M873-0	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
REF	–	–	–	–	–	–	–	–	–		ROM LISTING OF 23415A2	A-PS-23415A2-0-0	106
REF	–	–	–	–	–	–	–	–	–		ROM LISTING OF 23414A2	A-PS-23414A2-0-0	105
REF	–	–	–	–	–	–	–	–	–		ROM LISTING OF 23413A2	A-PS-23413A2-0-0	104
REF	–	–	–	–	–	–	–	–	–		ROM LISTING OF 23412A2	A-PS-23412A2-0-0	103
REF	–	–	–	–	–	–	–	–	–		WORD LISTING OF YJ CONTENTS	B-GL-M873-0-35	102
1	–	–	–	–	–	–	–	–	–	E20	IC74187	23415A2	101
1	–	–	–	–	–	–	–	–	–	E19	IC74187	23414A2	100
1	–	–	–	–	–	–	–	–	–	E17	IC74187	23413A2	99
1	–	–	–	–	–	–	–	–	–	E16	IC74187	23412A2	100
–	REF	–	–	–	–	–	–	–	–		ROM LISTING OF 23330A2	A-PS-23330A2-0-0	99
–	REF	–	–	–	–	–	–	–	–		ROM LISTING OF 23329A2	A-PS 23329A2-0-0	98
–	REF	–	–	–	–	–	–	–	–		ROM LISTING OF 23328A2	A-PS-23328A2-0-0	97
–	REF	–	–	–	–	–	–	–	–		ROM LISTING OF 23327A2	A-PS-23327A2-0-0	96
–	REF	–	–	–	–	–	–	–	–		WORD LISTING OF YH CONTENTS	B-CS-M873-0-34	95
–	1	–	–	–	–	–	–	–	–	E20	IC 74187	23330A2	94
–	1	–	–	–	–	–	–	–	–	E19	IC 74187	23329A2	93
–	1	–	–	–	–	–	–	–	–	E17	IC 74187	23328A2	92
–	1	–	–	–	–	–	–	–	–	E16	IC 74187	23327A2	91
–	–	REF	–	–	–	–	–	–	–		ROM LISTING OF 23341A2	A-PS-23341A2-0-0	90
–	–	REF	–	–	–	–	–	–	–		ROM LISTING OF 23340A2	A-PS-23340A2-0-0	89
–	–	REF	–	–	–	–	–	–	–		ROM LISTING OF 23339A2	A-PS-23339A2-0-0	88
–	–	REF	–	–	–	–	–	–	–		ROM LISTING OF 23338A2	A-PS-23338A2-0-0	87
–	–	REF	–	–	–	–	–	–	–		WORD LISTING OF YG CONTENTS	B-CS-M873-0-33	86
–	–	1	–	–	–	–	–	–	–	E20	IC 74187	23341A2	85
–	–	1	–	–	–	–	–	–	–	E19	IC 74187	23340A2	84
–	–	1	–	–	–	–	–	–	–	E17	IC 74187	23339A2	83
–	–	1	–	–	–	–	–	–	–	E16	IC 74187	23338A2	82
–	–	–	REF	–	–	–	–	–	–		ROM LISTING OF 23218A2	K-CS-M873-0-26	81
–	–	–	REF	–	–	–	–	–	–		ROM LISTING OF 23217A2	K-CS-M873-0-25	80
–	–	–	REF	–	–	–	–	–	–		ROM LISTING OF 23216A2	K-CS-M873-0-24	79
–	–	–	REF	–	–	–	–	–	–		ROM LISTING OF 23215A2	K-CS-M873-0-23	78
–	–	–	REF	–	–	–	–	–	–		WORD LISTING OF YF CONTENTS	B-CS-M873-0-27	77
–	–	–	1	–	–	–	–	–	–	E20	IC 74187	23218A2	76
–	–	–	1	–	–	–	–	–	–	E19	IC 74187	23217A2	75
–	–	–	1	–	–	–	–	–	–	E17	IC 74187	23216A2	74
–	–	–	1	–	–	–	–	–	–	E16	IC 74187	23215A2	73
–	–	–	–	REF	–	–	–	–	–		ROM LISTING OF 23098A2	KRL-M873-0-21	72
–	–	–	–	REF	–	–	–	–	–		ROM LISTING OF 23097A2	KRL-M873-0-20	71
–	–	–	–	REF	–	–	–	–	–		ROM LISTING OF 23096A2	KRL-M873-0-19	70
–	–	–	–	REF	–	–	–	–	–		ROM LISTING OF 23095A2	KRL-M873-0-18	69
–	–	–	–	REF	–	–	–	–	–		WORD LISTING OF YD CONTENTS	B-AP-M873-0-22	68
–	–	–	–	1	–	–	–	–	–	E20	IC 74187	23098A2	67
–	–	–	–	1	–	–	–	–	–	E19	IC 74187	23097A2	66
–	–	–	–	1	–	–	–	–	–	E17	IC 74187	23096A2	65
–	–	–	–	1	–	–	–	–	–	E16	IC 74187	23095A2	64
–	–	–	–	–	REF	–	–	–	–		ROM LISTING OF 23110A2	K-RL-M873-0-16	63
–	–	–	–	–	REF	–	–	–	–		ROM LISTING OF 23109A2	K-RL-M873-0-15	62
–	–	–	–	–	REF	–	–	–	–		WORD LISTING OF YC CONTENTS	B-AP-M873-0-17	61
–	–	–	–	–	1	–	–	–	–	E20	IC 74187	23110A2	60
–	–	–	–	–	1	–	–	–	–	E19	IC 74187	23109A2	59
6	6	6	6	6	6	6	6	6	6	E10,18,23,33,38,39	IC 8640	1911469	58
1	1	1	1	1	1	–	–	–	–	W1	JUMPER	9107560-01	57
–	–	–	–	–	–	REF	–	–	–		WORD LISTING OF YB ROM CONTENTS	B-AP-M873-0-14	56
–	–	–	–	–	–	–	REF	–	–		WORD LISTING OF YA ROM CONTENTS	B-AP-M873-0-9	55
–	–	–	–	–	–	REF	–	–	–		ROM LISTING FOR 23092 A2	K-RL-M873-0-13	54
–	–	–	–	–	–	REF	–	–	–		ROM LISTING FOR 23091 A2	K-RL-M873-0-12	53
–	–	–	–	–	–	REF	–	–	–		ROM LISTING FOR 23090 A2	K-RL-M873-0-11	52
–	–	–	–	–	–	REF	–	–	–		ROM LISTING FOR 23089 A2	K-RL-M873-0-10	51
–	–	–	–	–	REF	–	REF	–	–		ROM LISTING FOR 23045A2	K-RL-M873-0-8	50
–	–	–	–	–	REF	–	REF	–	–		ROM LISTING FOR 23044A2	K-RL-M873-0-7	49
–	–	–	–	–	A/R	A/R	A/R	–	–	W1,W2,W3	JUMPER	9107560-1	48
–	–	–	–	–	–	1	–	–	–	E20	IC 74187	23092-A2	47

PARTS LIST

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE: RESTART LOADER	SIZE: D	CODE: CS	NUMBER: M873-Ø-1	REV: J
SCALE: —#—	SHEET 2 OF 4	DIST.		

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REMOVE R3 TO DELETE DEFAULT ADDRESS FEATURE
(REMOVE FOR -YD,-YF,-YG,-YH AND-YJ VERSIONS.

CGΦ 3.3 μF R48 18K +5V
DATO *24L
773 *24 H
DATO H
BEGIN CLK H
BLS(1) H
DCLO L
BLS(Φ) H
PWR UP CLR L
2ΦMS
BUS ACLO
4 CNI
BUS DCLO
C54 1 μF R49 18K
R9 1K. D39 DGG4 C55 1 μF R50 18K
C43 .01 μF
6MS
DCLO PULSE
REC L
REC 1
REC 2
REC 3
REC 4
R46 18K C61 3.3 μF
D43 DGG4 R20 1K
C53 .01 μF C65 470 PF R19 10K C67 39 μF
C64 .15 μF R47 18K
STRB SW H
20MS
1MS
CLR SA FLOPS H
DATA TO BUS (1) L
READ H
RD DLY (Φ) H
DATO *24 L
R51 100
R21 1K
CGG 470 PF.
BUS SSYN L
D42 DGG4 R8 1K
READ L
C52 100 PF
AΦ (1) H
AΦ (Φ) H
C51 33 PF R17 10K
RD DLY (Φ) H
200 NS

J1

SAS 1 (Φ) L
SAS 2 (Φ) L
SAS 3 (Φ) L
SAS 4 (Φ) L
EN OFF ADR H
REC 1
D33 DGG4 R13 10K
E21 4.7K C56 2.2 μF
STRB SW H
BDΦ1 H
SAS 1 (1) H
-15V R18 10K
SAS 2 (1) H
SAS 3 (1) H
SAS 4 (1) H
CLR SA FLOPS
+3.6V
MX A A55
Q1
R4 1K
R3 1K
REC 2
D34 DGG4 R14 10K
E22 4.7K C57 2.2 μF
BDΦ2 H
Q2
R5 1K
REC 3
D35 DGG4 R15 10K
E23 4.7K C58 2.2 μF
BDΦ3 H
Q3
R6 1K
REC 4
D36 DGG4 R16 10K
E24 4.7K C59 2.2 μF
BDΦ4 H
Q4
R7 1K
DATI H
773 *24 H
EN OFF ADR H
BEGIN CLK H
TO D7

D32 D31 D30 D29 R44 22Φ ADD 8L
D28 D27 D26 D25 R43 22Φ ADD 7L
D24 D23 D22 D21 R42 22Φ ADD 6L
D20 D19 D18 D17 R41 22Φ ADD 5L
D16 D15 D14 D13 R40 22Φ ADD 4L
D12 D11 D10 D9 R39 22Φ ADD 3L
D8 D7 D6 D5 R38 22Φ ADD 2L
D4 D3 D2 D1 R37 22Φ ADD 1L

REVISIONS		
CHK	CHANGE NO	REV
K. Davis 11/5/73		J
K. Davis 11/6/73		
D. Wilson 11/22/73		

TITLE	SIZE	CODE	NUMBER	REV.
RESTART LOADER	D	CS	M873-Ø-1	J
SCALE —	SHEET 3 OF 4	DIST		

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BUS INIT DL1 — 8640 E39 — PWR UP CLR H — 8881 E36 — PWR UP CLR L
+5V — R25 4.7K — C63 39μf — D41 DG64 — R26 4.7K — +5V

BUS MSYN EE1 — 8640 E18
BUS A17 EDI — 8640 E18
BUS A16 EE2 — 8640 E18
BUS A15 ED2 — 8640 E23
BUS A14 EK1 — 8640 E23
BUS A13 EK2 — 8640 E18
BUS A12 EC1 — 8640 E18
BUS A11 EL1 — 8640 E33
BUS A1Ø EP1 — 8640 E33
BUS AØ9 ER1 — 8640 E33
BUS AØ8 EN2 — 8640 E33 — AØ8 H — 7404 E34 — AØ8 L
BUS AØ7 EP2 — 8640 E33 — AØ7 H
BUS AØ6 EU1 — 8640 E38 — AØ6 H
BUS AØ5 EV1 — 8640 E38 — AØ5 H
BUS AØ4 EU2 — 8640 E38 — AØ4 H
BUS AØ3 EV2 — 8640 E38 — AØ3 H
BUS AØ2 EF1 — 8640 E23 — AØ2 H
BUS AØ1 EH1 — 8640 E23 — AØ1 H — 7404 E34 — AØ1 L
BUS C1 EF2 — 8640 E23 — DATO H — 7404 E34 — DATI H
BUS DCLO CN1 — 8640 E18 — 7410 E31 — DCLO L

7430 E29 — W3 R27 4.7K +5V — BLS (Ø) H
REMOVE W3 FOR EXTENDED 128 WORDS ON YA; ALWAYS REMOVE FOR YB, YC, YD, YF YG, YH AND YJ VERSIONS

DATO H — 8640 E39 — READ H — 8640 E39 — READ L
AØ8 H, AØ6 H, AØ5 H, AØ3 H — 8815 E32 — AØ4 H, AØ2 H — 7410 E31 — AØ1 H

EL2 DEV SELECTED
NOTE: INSTALL JUMPER W1 FOR 11/45; W2 FOR 11/20, 11/05, 11/45
W2 W1 — 8815 E35 — 773 * 26 H; * = Ø OR 2
8815 E35 — 773 * 24 H

+5V — R11 1K
8881 E15 — 4 EDI — BUS A17
8881 E24 — 13 EE2 — BUS A16
8881 E24 — 10 ED2 — BUS A15
8881 E24 — 4 EK1 — BUS A14
8881 E24 — 1 EK2 — BUS A13
8881 E15 — 1 EC1 — BUS A12
8881 E28 — 13 EP1 — BUS A1Ø
8881 E28 — 10 ER1 — BUS AØ9

BUS D Ø4 CN2 — 8640 E10 — B D Ø4 H
BUS D Ø3 CT2 — 8640 E10 — B D Ø3 H
BUS D Ø2 CU2 — 8640 E10 — B D Ø2 H
BUS D Ø1 CR2 — 8640 E10 — B D Ø1 H

OPTIONAL ON YA VERSION ONLY

-C- 74187** E19
AØ7 H, AØ6 H, AØ5 H, AØ4 H, AØ3 H, AØ2 H, AØ1 H, AØ(1) H — M3(1) ROM 3/11; M2(1) 10 ROM 2/1Ø; M1(1) 11 ROM 1/9; MØ(1) 12 ROM Ø/8
ENBI ENBØ — AØ8 L

-D- 74187** E2Ø
AØ7H, AØ6 H, AØ5 H, AØ4 H, AØ3 H, AØ2 H, AØ1 H, AØ(1) H — M3(1) ROM 7/15; M2(1) 10 ROM 6/14; M1(1) 11 ROM 5/13; MØ(1) 12 ROM 4/12
ENBI ENBØ — AØ8 L

-B- 74187** E17
AØ7 H, AØ6 H, AØ5 H, AØ4 H, AØ3 H, AØ2 H, AØ1 H, AØ(1) H — M3(1) ROM 7/15 — R29 47Ø +5V; M2(1) 10 ROM 6/14 — R3Ø 47Ø +5V; M1(1) ROM 5/13 — R31 47Ø +5V; MØ(1) ROM 4/12 — R32 47Ø +5V
ENBI ENBØ — AØ8 H

-A- 74187** E16
AØ7 H, AØ6 H, AØ5 H, AØ4 H, AØ3 H, AØ2 H, AØ1 H, AØ(1) H — M3(1) ROM 3/11 — R33 47Ø +5V; M2(1) 10 ROM 2/1Ø — R34 47Ø +5V; M1(1) ROM 1/9 — R35 47Ø +5V; MØ(1) ROM Ø/8 — R36 47Ø +5V
ENBI ENBØ — AØ8 H

74175 E12 — D2 R2(1) 10, R2(Ø) 11; D3 R3(1) 15, R3(Ø) 14; D1 R1(1) 7, R1(Ø) 6; DØ RØ(1) 2, RØ(Ø) 3; CLR CLK; +3V; AØ(1) H

74175 E11 — D2 R2(1) 10, R2(Ø) 11; D3 R3(1) 15, R3(Ø) 14; D1 R1(1) 7, R1(Ø) 6; DØ RØ(1) 2, RØ(Ø) 3; CLR CLK; +3V; AØ(1) H

* * OR EQUIVALENT

+3V — R1 1K — C44 .01μf — D4Ø DG64 — DC LO PULSE
7474 E3Ø A11 — CLR AA773
REC L — 8640 E39 — R53 10K — C62 39μf — CLEARS AA773 AFTER ≈ 3ØØ MS

ROM 7/15 — 8881 E3 — 13 CD2 — BUS DI5
ROM 6/14 — 8881 E3 — 10 CE2 — BUS DI4
ROM 5/13 — 8881 E2 — 13 CF2 — BUS DI3
ROM 4/12 — 8881 E2 — 10 CH2 — BUS DI2
ROM 3/11 — 8881 E1 — 13 CH1 — BUS DI1
ROM 2/1Ø — 8881 E1 — 10 CJ2 — BUS DI0
DATA TO BUS (1)L — 8881 E28
+5V — R12 1K
ROM 1/9 — 8881 E1 — 4 CK2 — BUS D9
ROM Ø/8 — 7404 E34 — OAD &L — 7400 E6 — 8881 E1 — 1 CL2 — BUS D8

OAD 7L — 7400 E7 — 8881 E2 — 4 CM2 — BUS D7
OAD 6L — 7400 E7 — 8881 E15 — 13 CV2 — BUS D6
OAD 5L — 7400 E7 — 8881 E3 — 1 CP2 — BUS D5
OAD 4L — 7400 E7 — 8881 E2 — 1 CN2 — BUS D4
OAD 3L — 7400 E6 — 8881 E5 — 4 CT2 — BUS D3
OAD 2L — 7400 E6 — 8881 E5 — 1 CU2 — BUS D2
OAD 1L — 7400 E6 — 8881 E5 — 13 CR2 — BUS D1
8881 E5 — 10 CS2 — BUS D0
EN DATA TO BUS
DATA TO BUS (1)L — 8881 E28 — R10 1K +5V

GRANT JUMPERS
DK2 DL2 — DP2 DR2
DM2 DN2 — DS2 DT2

REVISIONS		
CHK	CHANGE NO	REV.
K. Dumbo 11-6-73	P01	
R.J. Adams 11/26/73	A	

TITLE	SIZE	CODE	NUMBER	REV.
RESTART/LOADER	D	CS	M873-Ø-1	J
SCALE —	SHEET 4 OF 4	DIST.		

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DIGITAL EQUIPMENT
CORPORATION

ADDRESS	ADD+00	ADD+02	ADD+04	ADD+06	ADD+10	ADD+12	ADD+14	ADD+16
773000	010702	000464	177462	000005	010702	000460	177406	000005
773020	013707	177570	173000	000340	010702	000426	177344	004003
773040	100000	024000	000445	000005	010702	000416	172524	060017
773060	000200	100000	000413	060011	000200	100000	000431	060003
773100	010702	000424	176716	000005	010200	005720	000005	005720
773120	016201	000002	005311	012041	031011	001776	005720	032041
773140	001063	000110	010702	000402	177450	000005	010200	005720
773160	005720	000005	016201	000002	012711	177000	011041	105711
773200	100376	005711	100441	005007	012704	177560	000440	017640
773220	002415	112024	173000	000340	005004	012700	177500	000005
773240	010410	012701	173216	012702	000375	112103	112110	100407
773260	130310	001776	105202	100772	116012	000002	000771	005710
773300	100756	005002	120312	001377	000112	012704	177550	000005
773320	012701	160000	012702	000006	012712	000340	010742	012706
773340	000024	010441	040601	010111	011102	005214	105714	100376
773360	116412	000002	005211	120227	000375	001366	105222	000142

FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP 11		PARTS LIST		

DRN. K. Sparr	DATE 11-5-73	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
CHK'D. Hal Speer	DATE 11-30-73	
ENG. R. Dietz	DATE 11-30-73	TITLE WORD LISTING OF ROM CONTENTS (FOR M873-YA)
PROJ. ENG. R. Dietz	DATE 11-30-73	
PROD. E. Berenstein	DATE 11-30-73	
NEXT HIGHER ASSEMBLY B-DD-BM873-0		SIZE B CODE AP NUMBER M873-Ø-9 REV.
SCALE 1/1		DIST.
SHEET 1 OF 1		

REVISIONS: REV. | CHANGE NO. | CHK

DEC FORM NO. DRB 109

REV. | NUMBER M873-Ø-9 | SIZE B | CODE AP | 2

4 3 2 1

B A

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ADDRESS	ADD+00	ADD+02	ADD+04	ADD+06	ADD+10	ADD+12	ADD+14	ADD+16
773000	000405	010703	113737	177570	172050	000401	010703	012700
773020	172040	000526	173000	000340	000412	010703	113705	177570
773040	052705	000010	006105	103376	010537	177412	000401	010703
773060	010702	000546	177406	000005	010703	010702	000570	177344
773100	000005	004003	100000	024000	010703	012737	060017	172522
773120	010702	000555	172524	060003	060011	000200	100000	010703
773140	010702	000516	177462	000005	010703	012700	172440	012710
773160	000021	012760	001300	000032	012760	177777	000006	012710
773200	000031	105760	000012	100375	000433	010703	010702	000470
773220	177450	000005	173000	000340	000405	010703	113737	177570
773240	176310	000401	010703	012700	176300	032760	040000	000026
773260	001336	012710	000021	012760	014000	000032	012710	000011
773300	005720	010037	000002	012737	000071	000004	005002	000430
773320	000405	010703	113737	177570	176710	000401	010703	012700
773340	176700	000743	013707	177570	000405	010703	113705	177570
773360	000305	000402	010703	005005	010702	000403	176716	000005

ADDRESS	ADD+00	ADD+02	ADD+04	ADD+06	ADD+10	ADD+12	ADD+14	ADD+16
773400	005005	010200	005720	012001	012711	177000	051005	010541
773420	032711	100200	001775	100012	005702	001024	032761	040000
773440	000026	001420	022761	001000	000014	001014	005007	010200
773460	005720	012001	005311	005720	012041	031011	001776	005720
773500	031041	001736	000005	000113	012704	177560	000443	017640
773520	002415	112024	000404	113704	177570	000304	000401	005004
773540	012700	177500	000005	010410	012701	173516	012702	000375
773560	112103	112110	100407	130310	001776	105202	100772	116012
773600	000002	000771	005710	100756	005002	120312	001377	000112
773620	012704	177550	000005	012701	160000	012702	000006	012712
773640	000340	010742	012706	000024	010441	040601	010111	011102
773660	005214	105714	100376	116412	000002	005211	120227	000375
773700	001366	105222	000142	000000	000000	000000	000000	000000
773720	000000	000000	000000	000000	000000	000000	000000	000000
773740	000000	000000	000000	000000	000000	000000	000000	000000
773760	000000	000000	000000	000000	000000	000000	000000	000000

QTY.	DESCRIPTION	PART NO.	ITEM NO.
	PARTS LIST		

REVISIONS

REV.	CHANGE NO.	CHK

UNLESS OTHERWISE SPECIFIED

UNLESS OTHERWISE SPECIFIED
DIMENSION IN INCHES
TOLERANCES
DECIMALS ± .005 FRACTIONS ± 1/64 ANGLES ±: 0°30'
FINAL SURFACE QUALITY
REMOVE BURRS AND BREAK SHARP CORNERS

MATERIAL

FINISH

DRN.	D. Larabel	DATE 8-29-74
CHK'D.	D Larabel	DATE 8-29-74
ENG.	D Larabel	DATE 8-29-74
PROJ. ENG.	D Larabel	DATE 8-29-74
PROD.		DATE

FIRST USED ON
PDP11

SCALE —

SHEET 1 OF 1

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
WORD LISTING OF ROM CONTENTS
(FOR M873-YB)

SIZE	CODE	NUMBER	REV.
B	AP	M873-0-14	

DIST.

DEC FORM NO. DRB 100

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DIGITAL EQUIPMENT CORPORATION

ADDRESS	ADD+00	ADD+02	ADD+04	ADD+06	ADD+10	ADD+12	ADD+14	ADD+16
773000	010702	000464	177462	000005	010702	000460	177406	000005
773020	013707	177570	173000	000340	010702	000426	177344	004003
773040	100000	024000	000445	000005	010702	000416	172524	060017
773060	000200	100000	000413	060011	000200	100000	000431	060003
773100	010702	000424	176716	000005	010200	005720	000005	005720
773120	016201	000002	005311	012041	031011	001776	005720	032041
773140	001063	000110	010702	000402	177450	000005	010200	005720
773160	005720	000005	016201	000002	012711	177000	011041	105711
773200	100376	005711	100441	005007	012704	177560	000440	017640
773220	002415	112024	173000	000340	005004	012700	177500	000005
773240	010410	012701	173216	012702	000375	112103	112110	100407
773260	130310	001776	105202	100772	116012	000002	000771	005710
773300	100756	005002	120312	001377	000112	012704	177550	000005
773320	012701	160000	012702	000006	012712	000340	010742	012706
773340	000024	010441	040601	010111	011102	005214	105714	100376
773360	116412	000002	005211	120227	000375	001366	105222	000142
773400	012700	005000	000005	012706	017776	010702	062702	000360
773420	012703	000006	005013	010243	160313	005303	012701	160010
773440	005711	111204	060401	005201	040401	005703	001371	005700
773460	001002	063701	177570	012711	000006	012761	036226	000002
773500	032711	020000	001775	022121	052711	000020	010700	062700
773520	000230	012704	000026	112061	000002	105711	100376	005304
773540	001372	042711	000020	024141	042711	000020	012711	000422
773560	005003	012700	000001	012704	000010	004767	000060	005703
773600	001363	123727	000006	000001	001357	123727	000001	000220
773620	001322	013704	000002	042704	140000	122424	005000	004767
773640	000014	005703	001310	105713	001306	000137	000006	105711
773660	100376	042711	000400	116110	000002	012705	000010	112002
773700	000241	006003	103003	006002	103003	000410	006002	103006
773720	012746	120001	040316	042703	120001	052603	005305	001360
773740	005304	001345	000207	113226	113226	002220	000000	000400
773760	050055	001010	000001	030242	122243	000002	007407	003407

REVISIONS			
REV.	CHANGE NO.		CHK

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP11		PARTS LIST		

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES
TOLERANCES

DECIMALS	ANGLES
.xxx = .005 .xx = .02 .x = .1	±0° 30'

REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY √

MATERIAL —/—

FINISH —/—

DRN. Kipperal	DATE 5-7-75	
CHK'D.	DATE 4/14/75	
ENG. R Dieter	DATE 4/15/75	
PROJ. ENG. R Dieter	DATE 4/15/75	
PROD. Wall	DATE 11/6/75	

NEXT HIGHER ASSY. B-DD-BM873-Ø

SCALE —/—

SHEET 1 OF 1

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE
WORD LISTING OF ROM CONTENTS
(FOR M873-YC)

SIZE	CODE	NUMBER	REV.
B	CS	M873-Ø-17	

DIST.

DEC 16-(325)-1080-1A-R373
DRB 100

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DIGITAL EQUIPMENT CORPORATION

ADDRESS	ADD+00	ADD+02	ADD+04	ADD+06	ADD+10	ADD+12	ADD+14	ADD+16
773000	033727	177570	000001	001010	013707	177570	111704	005001
773020	005005	000424	173000	000340	013701	177570	106301	122701
773040	000340	101404	122701	000060	101001	005001	000301	042701
773060	177770	013705	177570	005004	105705	100507	012700	000005
773100	012702	177400	012703	004003	000301	050103	050100	012701
773120	177344	012706	000024	005705	100404	005306	100002	000000
773140	000770	000005	010341	005711	100376	005721	005761	177774
773160	100362	010211	010041	105711	100376	005721	100754	005741
773200	105011	122700	000005	001001	000137	000000	000776	010037
773220	000040	000402	173000	000340	010700	000410	012700	004015
773240	012702	110000	012703	000003	005005	000721	010137	000042
773260	012701	000044	010221	010321	010421	010521	010621	010021
773300	000160	000002	111704	005005	005001	012700	034400	012702
773320	177400	012703	000626	050100	012701	176700	000005	010006
773340	042706	177770	010661	000010	032711	004000	001767	012721
773360	000021	010306	042706	176000	010661	000032	010306	100003
773400	012761	010000	000030	006206	006206	105006	150006	106006
773420	106206	106206	010661	000004	010211	010006	105006	000306
773440	010641	105711	100376	032711	060000	001330	032761	140000
773460	000012	001324	022706	000071	001250	022737	000240	000000
773500	001643	000000	000641	010037	000040	010700	000657	012700
773520	030500	012702	110000	012703	032631	000676	010037	000040
773540	010700	000644	005005	012501	012503	012504	011500	012715
773560	000340	005745	012702	174340	010715	010506	062702	000040
773600	105702	100770	032762	004000	000034	001770	026217	000014
773620	001365	005725	010015	010445	010345	010145	012700	000130
773640	010204	012420	022700	000160	101374	010201	062701	000032
773660	012721	000100	005012	005062	000020	032711	004000	001775
773700	032762	000026	000036	001403	012711	000400	000000	012762
773720	000100	000032	005062	000022	012762	107400	000016	032711
773740	004000	001775	132711	000202	001775	100003	022715	000240
773760	001403	012711	000400	000000	012762	000100	000032	000115

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP 11		PARTS LIST		

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES
TOLERANCES
DECIMALS: .xxx = .005, .xx = .02, .x = .1
ANGLES: ±0° 30'
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY √
MATERIAL
FINISH

DRN. Robert Kopperal	DATE 3-25-75	
CHK'D. Robert Glass	DATE 4/14/75	
ENG. R. Watts	DATE 4-16-75	
PROJ. ENG. R. Watts	DATE 4-15-75	
PROD. R. Wall	DATE 4-16-75	
NEXT HIGHER ASSY. B-DD-BM873-Ø		
SCALE		
SHEET 1 OF 1		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE
WORD LISTING OF ROM CONTENTS
(FOR M873YD)

SIZE	CODE	NUMBER	REV.
B	CS	M873-Ø-22	

DIST.

REVISIONS	REV.	CHANGE NO.	CHK

DEC 16 (325)-1060 1A-R373
OPB 100

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ADDRESS	ADD+00	ADD+02	ADD+04	ADD+06	ADD+10	ADD+12	ADD+14	ADD+16
773000	010037	000040	013700	177570	032700	000001	001007	000557
773020	005000	000404	173000	000340	012700	000200	010005	106300
773040	122700	000340	101404	122700	000060	101001	005000	000300
773060	042700	177770	105705	100550	012703	000401	005700	001402
773100	012700	000020	052700	000007	012706	000012	012701	177170
773120	005705	100402	005306	002475	000005	005004	010302	032711
773140	000040	001775	005700	100454	110011	105711	100376	110261
773160	000002	105711	100376	000302	110261	000002	000302	032711
773200	100040	001775	100745	005703	100421	012711	000003	132711
773220	000240	000402	173000	000340	001772	100003	116124	000002
773240	000766	122222	022704	001000	101337	005007	005202	122702
773260	000032	103003	105002	062702	000401	022704	160000	101516
773300	012711	000001	132711	000240	001775	100316	112461	000002
773320	000771	012711	000017	032711	000040	001775	016100	000002
773340	000476	012703	035401	012700	100005	005005	000655	010037
773360	000056	012700	000056	010640	010540	010440	010340	010240
773400	010140	014000	000177	004446	005002	005003	052700	034400
773420	012704	177400	012706	000012	012701	176700	005705	100402
773440	005306	002437	000005	110061	000010	032711	004000	001765
773460	012711	000021	010261	000034	010361	000006	010461	000002
773500	000300	110011	000300	105711	100376	032711	060000	001346
773520	032761	140000	000012	001342	005700	100247	005000	000000
773540	000776	016100	000012	000773	012702	000631	012703	006410
773560	012700	130400	012704	110000	005005	000714	010037	000040
773600	012700	173606	000664	005005	012500	012501	011502	012725
773620	173634	011503	012715	000340	012704	174340	012706	000004
773640	062704	000040	105704	100770	032764	004000	000034	001770
773660	026427	000014	001365	010315	010245	010145	010045	012700
773700	000138	012420	022700	000156	103374	005724	010401	012700
773720	000100	010021	005061	177744	005061	177764	032711	004000
773740	001775	010014	005061	177766	012761	107400	177762	032711
773760	004000	001775	010014	012705	100000	005007	000000	000000

REVISIONS			
CHK	CHANGE NO.	REV.	
—	M873-00004	—	ORIGINATED

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
M873		PARTS LIST		

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES

TOLERANCES

DECIMALS	ANGLES
.xxx = .005 .xx = .02 .x = .1	±0° 30'

REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY √

MATERIAL —

FINISH —

DRN. W Fisher	DATE 11-3-75	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS
CHK'D. E. Remon	DATE 11-3-75	
ENG. R. Dieter	DATE 11-3-75	TITLE WORD LISTING OF ROM CONTENTS (FOR M873-YF)
PROJ. ENG. R. Dieter	DATE 11-3-75	
PROD.	DATE	
NEXT HIGHER ASSY. D-CS-M873-0-1		SIZE B / CODE CS / NUMBER M873-0-27 / REV. —
SCALE —		
SHEET 1 OF 1		DIST.

DEC 16-(325)-1080-1A-R373
DRB 100

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REV.	NUMBER	CODE	SIZE
	M873-Ø-32	CS	K

FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
M873-WA		PARTS LIST		

DRN. E. DeVries	DATE 15-Dec-75	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
CHK'D: P Shubroff	DATE 15-Dec-75	
ENG. P Shubroff	DATE 15-Dec-75	TITLE WORD LISTING OF ROM CONTENTS
PROJ. ENG. P Shubroff	DATE 15-Dec-75	
PROD. R. Yarger	DATE 12-15-75	
NEXT HIGHER ASSEMBLY D-AD-7606994-0-0		SIZE K CODE CS NUMBER M873-Ø-32 REV.
SCALE --		
SHEET 1 OF 2		DIST.

REVISIONS | REV. | CHANGE NO. | CHK

DEC FORM NO. DRB 109

K-CS-M873-Ø-32

MAINDEC-11-DZBMDE
DEVICE VERSION
BM873-Y*

PROGRAM NO. (1,2,3,4) 2

BLIND READ OF ROM
NOTE: NO CHECKING IS PERFORMED.

ADDRESS	ADD+00	ADD+02	ADD+04	ADD+06	ADD+10	ADD+12	ADD+14	ADD+16
173000	000005	012706	000500	012737	173000	000024	005037	000026
173020	012703	160020	012737	173046	000004	005037	000006	005713
173040	062703	000020	000774	062703	000010	004737	173440	012725
173060	002015	012725	000200	004736	004737	173714	112715	000220
173100	012714	000030	105215	012714	177560	012713	000001	032713
173120	000200	001003	077004	077105	000723	042713	110321	012700
173140	000030	122710	000220	001350	012701	000010	004737	173672
173160	001307	113746	000031	113756	000032	000001	011601	062701
173200	000002	004737	173672	001274	212502	005302	012704	000041
173220	112400	005302	032700	177774	001006	012737	173372	000004
173240	006300	000170	173252	000137	173000	173000	173262	173322
173260	173352	004737	173404	010001	004737	173404	004737	173440
173300	112725	000012	004737	173424	112125	020001	001375	004736
173320	000663	004737	173404	010001	112420	077202	004737	173440
173340	112725	000011	004737	173424	000762	004737	173404	010046
173360	004737	173440	112725	000011	000207	004737	173440	112725

EXTENDED 128. WORD ROM DUMP.
CONTENTS DUMPED IS PLACED IN THE SOFTWARE
MAP. VISUAL INSPECTION OF DATA IS
YOUR RESPONSIBILITY!!

ADDRESS	ADD+00	ADD+02	ADD+04	ADD+06	ADD+10	ADD+12	ADD+14	ADD+16
173400	000013	000745	112446	112466	000001	105724	162702	000003
173420	012600	000207	110125	000301	110125	000301	105025	000207
173440	012705	000044	012725	000203	004736	010504	162704	000044
173460	012702	113223	012705	000032	010225	010225	010500	112725
173500	000220	110425	000304	110425	000304	105025	105025	112725
173520	000001	012701	000006	004737	173672	013720	170702	010431
173540	004737	173672	113720	170702	113720	170703	032700	000001
173560	001401	110220	010220	010220	004737	173714	112715	000022
173600	012714	000030	113746	000035	113766	000035	000001	062716
173620	000022	105215	005416	012614	012712	001500	032712	020000
173640	001775	052712	000001	012701	000040	032712	000200	001004
173660	077004	077105	000137	173000	000207	012737	000121	170700
173700	112037	170704	077103	005737	170702	000207	010302	005722
173720	010205	005725	105725	010504	105724	112715	000012	012714
173740	000240	112715	000012	012714	000040	112715	000012	012714
173760	004000	112715	000011	012714	113226	000207	000000	000000

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REV.	NUMBER	SIZE	CODE
A	M873-0-33	B	CS

REVISIONS	CHANGE NO.	REV.
CHK	M873-00005	
-	ORIGINATED	
TH	M873-MR007	A
E. Rouke 20-DEC-77		
S. HOLMES		
S. Holmes 5-JAN-78		

FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP11		PARTS LIST		

DRN. W. Tobin	DATE 3 Sep 76	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
CHK'D. E. Remous	DATE 20 SEP 76	
ENG. K. Dieter	DATE 20 Sep 76	TITLE WORD LISTING OF ROM CONTENTS (FOR BM873-YG)
PROJ. ENG. K. Dieter	DATE 20 Sep 76	
PROD.	DATE	
NEXT HIGHER ASSEMBLY D-CS-M873-0-1		SIZE B / CODE CS / NUMBER M873-0-33 / REV. A
SCALE — // —		DIST.
SHEET 1 OF 2		

DEC FORM NO. DRB 109

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BlIND READ OF ROM
NOTE: NO CHECKING IS PREFORMED

ADDRESS	ADD+ØØ	ADD+Ø2	ADD+Ø4	ADD+Ø6	ADD+1Ø	ADD+12	ADD+14	ADD+16
173ØØØ	ØØØØØ5	Ø127Ø6	ØØ2ØØØ	Ø127Ø1	173374	1Ø5737	176ØØ4	1ØØ375
173Ø2Ø	ØØØ4Ø3	ØØØØØØ	173ØØØ	ØØØ34Ø	112137	176ØØ6	1Ø5711	ØØ1365
173Ø4Ø	ØØ5ØØ5	Ø127Ø1	ØØ21ØØ	1Ø5737	176ØØØ	1ØØ375	113711	176ØØ2
173Ø6Ø	142711	ØØØ2ØØ	ØØ177Ø	121127	ØØØØØ1	ØØ1413	ØØ57Ø5	ØØ1763
1731ØØ	122127	ØØØØ12	ØØ141Ø	Ø2Ø127	ØØ23Ø4	ØØ3755	ØØ4737	173346
17312Ø	ØØØØØØ	ØØ52Ø5	ØØØ75Ø	Ø127Ø3	ØØ231Ø	Ø127Ø1	ØØ21ØØ	122127
17314Ø	ØØØ1Ø5	ØØ14Ø3	ØØ4737	173346	ØØØØØØ	122127	ØØØØ4Ø	ØØ14Ø3
17316Ø	ØØ4737	173346	ØØØØØØ	ØØ5ØØ2	1121ØØ	1227ØØ	ØØØØ15	ØØ1774
1732ØØ	1227ØØ	ØØØØ12	ØØ1422	1227ØØ	ØØØØ54	ØØ1415	ØØ63Ø2	ØØ63Ø2
173:2Ø	ØØ63Ø2	ØØØ4Ø2	173ØØØ	ØØØ34Ø	ØØ63Ø2	ØØ63Ø2	ØØ63Ø2	Ø427ØØ
17324Ø	ØØØ1ØØ	Ø5ØØØ2	ØØØ751	Ø1Ø223	ØØØ746	Ø1Ø223	Ø127Ø2	ØØ231Ø
17326Ø	ØØ5ØØØ	Ø622ØØ	Ø2Ø2Ø3	ØØ2775	ØØ57ØØ	ØØ14Ø3	ØØ4737	173346
1733ØØ	ØØØØØØ	Ø137ØØ	ØØ231Ø	ØØ1413	Ø127Ø2	ØØ2314	Ø137Ø1	ØØ2312
17332Ø	112221	112221	ØØ53ØØ	ØØ3374	ØØ4737	173354	ØØØ642	ØØ4737
17334Ø	173354	Ø137Ø7	ØØ2312	Ø127ØØ	ØØØØ25	ØØØ4Ø2	1127ØØ	ØØØØØ6
17336Ø	1Ø5737	176ØØ4	1ØØ375	11ØØ37	176ØØ6	ØØØ2Ø7	Ø41ØØ1	ØØ5Ø15
1734ØØ	ØØØØØØ	ØØØØØØ	ØØØØØØ	ØØØØØØ	ØØØØØØ	ØØØØØØ	ØØØØØØ	ØØØØØØ
17342Ø	ØØØØØØ	ØØØØ?Ø	ØØØØØØ	ØØØØØØ	ØØØØØØ	ØØØØØØ	ØØØØØØ	ØØØØØØ
17344Ø	ØØØØØØ	ØØØØØØ	ØØØØØØ	ØØØØØØ	ØØØØØØ	ØØØØØØ	ØØØØØØ	ØØØØØØ
17346Ø	ØØØØØØ	ØØØØØØ	ØØØØØØ	ØØØØØØ	ØØØØØØ	ØØØØØØ	ØØØØØØ	ØØØØØØ
1735ØØ	ØØØØ3Ø	ØØØØØØ	ØØØØØØ	ØØØØØØ	ØØØØØØ	ØØØØØØ	ØØØØØØ	ØØØØØØ
17352Ø	ØØØØØØ	ØØØØØØ	ØØØØØØ	ØØØØØØ	ØØØØØØ	ØØØØØØ	ØØØØØØ	ØØØØØØ
17354Ø	Ø1ØØ37	ØØØØ56	Ø127ØØ	ØØØØ56	Ø1Ø64Ø	Ø1Ø54Ø	Ø1Ø44Ø	Ø1Ø34Ø
17356Ø	Ø1Ø24Ø	Ø1Ø14Ø	Ø14ØØØ	ØØØ177	ØØ4264	ØØØØØØ	Ø1ØØ37	ØØØØ4Ø
1736ØØ	Ø127ØØ	1736Ø6	ØØØ755	ØØ5ØØ5	Ø125ØØ	Ø125Ø1	Ø115Ø2	Ø12725
17362Ø	173634	Ø115Ø3	Ø12715	ØØØ34Ø	Ø127Ø4	17434Ø	Ø127Ø6	ØØØØØ4
17364Ø	Ø627Ø4	ØØØØ4Ø	1Ø57Ø4	1ØØ77Ø	Ø32764	ØØ4ØØØ	ØØØØ34	ØØ17ØØ
17366Ø	Ø26417	ØØØØ14	ØØ1365	Ø1Ø315	Ø1Ø245	Ø1Ø145	Ø1ØØ45	Ø127ØØ
1737ØØ	ØØØ13Ø	Ø1242Ø	Ø227ØØ	ØØØ156	1Ø3374	ØØ5724	Ø1Ø4Ø1	Ø127ØØ
17372Ø	ØØØ1ØØ	Ø1ØØ21	ØØ5Ø61	177744	ØØ5Ø61	177764	Ø32711	ØØ4ØØØ
17374Ø	ØØ1775	Ø1ØØ14	ØØ5Ø61	177766	Ø12761	1Ø74ØØ	177762	032711
17376Ø	ØØ4ØØØ	ØØ1775	Ø1ØØ14	Ø127Ø5	1ØØØØØ	ØØ5ØØ7	ØØØØØØ	ØØØØØØ

TITLE	SHEET	SIZE	CODE	NUMBER	REV
WORD LISTING OF ROM CONTENTS(FOR BM873-YG)	SHEET 2 OF 2	B	CS	M873-Ø-33	A

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REVISIONS	CHANGE NO.	REV.
ORIGINATED	M873-00005	—
CHK	—	

FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP11		PARTS LIST		

DRN.	DATE	
CHK'D E.REMOND	DATE 10SEP76	
ENG. K Curtis	DATE 2 SEP 76	
PROJ. ENG. K Curtis	DATE 22 Sep 76	
PROD.	DATE	
NEXT HIGHER ASSEMBLY D-CS-M873-0-1		
SCALE —		
SHEET 1 OF 2		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
WORD LISTING OF ROM CONTENTS (FOR BM873-YH)

SIZE	CODE	NUMBER	REV.
B	CS	M873-0-34	—
DIST.			

DEC FORM NO. DRB 109

BLIND READ OF ROM
NOTE: NO CHECKING

ADDRESS	ADD+00	ADD+02	ADD+04	ADD+06	ADD+10	ADD+12	ADD+14	ADD+16
173000	010037	000040	013700	177570	032700	000001	001007	000513
173020	005000	000404	173020	000340	012700	000200	010005	106300
173040	122700	000060	101001	005000	000300	042700	177770	105705
173060	100553	012737	173304	000004	005037	000006	012706	000014
173100	012701	177170	010003	005705	100402	005306	002445	000005
173120	032711	000040	001775	010300	001402	012700	000020	052700
173140	000007	010102	010022	105711	100376	012712	000001	105711
173160	100376	012712	000001	032711	100040	001775	100744	012711
173200	000003	005004	132711	000240	001775	100153	111224	000772
173220	000000	000000	173020	000340	012711	000017	032711	000040
173240	001775	011200	000541	010037	000056	012700	000056	010640
173260	010540	010440	010340	010240	010140	014000	000177	004556
173300	005000	005005	012706	000014	012701	177342	005705	100402
173320	005306	002427	000005	010003	000303	010304	052703	004003
173340	010311	005711	100376	005761	177776	100360	012761	177400
173360	000002	052704	000005	010411	105711	100376	005711	100746
173400	000460	016100	177776	000460	012706	000014	012701	176700
173420	012702	004000	005705	100402	005306	002444	000005	110061
173440	000010	032711	004000	001766	012711	000021	005061	000034
173460	005061	000006	050261	000032	012761	177400	000002	012711
173500	000071	105711	100376	032761	000020	000014	001403	052702
173520	010000	000740	032711	060000	001335	032761	140000	000012
173540	001331	005007	016100	000012	000000	000776	010037	000040
173560	012700	173566	000630	005005	012500	012501	011502	012725
173600	173612	011503	005015	012704	174340	012706	000004	062704
173620	000040	105704	100770	032764	004000	000034	001770	026417
173640	000014	001365	010315	010245	010145	010045	012700	000130
173660	012420	022700	000156	103374	005724	010401	012700	000100
173700	010021	005061	177744	005061	177764	032711	004000	001775
173720	010014	005061	177766	012761	107400	177762	032711	000200
173740	001775	005007	000000	000000	000000	000000	000000	000000
173760	000000	000000	000000	000000	000000	000000	000000	000000

TITLE	SHEET	SIZE	CODE	NUMBER	REV
WORD LISTING OF ROM CONTENTS(FOR BM873-YH)	SHEET 2 OF 2	B	CS	M873-Ø-34	—

BLIND READ OF ROM
NOTE: NO CHECKING

ADDRESS	ADD+00	ADD+02	ADD+04	ADD+06	ADD+10	ADD+12	ADD+14	ADD+16
173000	010037	000040	013700	177570	032700	000001	001007	000510
173020	005000	000404	173020	000340	012700	000200	010005	106300
173040	122700	000060	101001	005000	000300	042700	177770	105705
173060	100551	012737	173274	000004	005037	000006	012706	000020
173100	012701	177170	005711	005705	100402	005306	002531	000005
173120	032711	000040	001775	111704	010002	001402	012702	000020
173140	052702	000007	010103	010223	105711	100376	012713	000301
173160	005304	001372	032711	100040	001775	100745	012711	000003
173200	132711	000240	001775	100147	111324	000772	005000	000425
173220	000000	000666	173020	000340	010037	000040	012700	173622
173240	010037	000052	012700	000056	010640	010540	010440	010340
173260	010240	010140	014000	000177	004564	005005	012737	173530
173300	000004	012706	000020	012701	177342	105011	005705	100402
173320	005306	002426	000005	110061	000001	052711	004003	005711
173340	100376	005761	177776	100361	012761	177400	000002	042711
173360	004000	112711	000005	105711	100376	005711	100746	005007
173400	000000	000776	012706	000020	012701	176700	012702	004000
173420	005705	100402	005306	002764	000005	110061	000010	012711
173440	000021	005061	000034	005061	000006	050261	000032	012761
173460	177400	000002	012711	000071	105711	100376	032761	000020
173500	000014	001402	052702	010000	032711	060000	001341	032761
173520	140000	000012	001335	005007	012701	177560	011706	005004
173540	012702	173610	004712	124427	000220	001374	004742	014403
173560	042703	140000	004712	004712	005722	004712	005004	004712
173600	005393	003375	005007	004717	105711	100376	116124	000002
173620	000207	005005	012500	012501	011502	012725	173646	011503
173640	005015	012704	174340	012706	000140	062704	000040	105704
173660	100770	032764	004000	000034	001770	026417	000014	001365
173700	010315	010245	010145	010045	012700	000130	012420	022700
173720	000156	103374	005724	010401	012700	000100	010021	005061
173740	177744	005061	177764	032711	004000	001775	010014	005061
173760	177766	012761	107400	177762	105711	100376	005007	000000

WORD LISTING OF ROM
CONTENTS (FOR BM873-YJ)
B-GL-M873-0-35

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

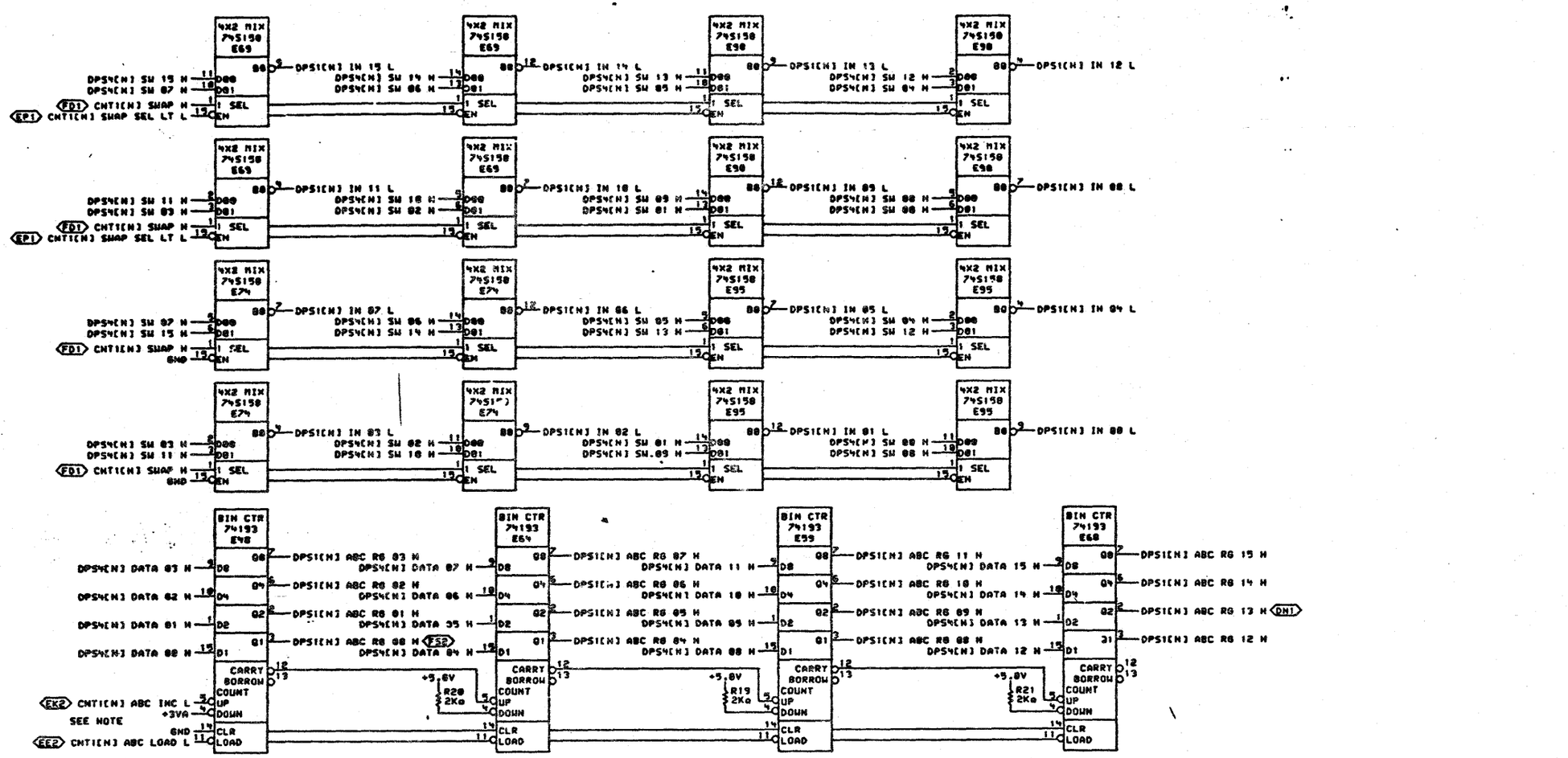
PARTS LIST

MADE BY	M. ARCHIE	CHECKED		SECTION	1
DATE	4/16/75	DATE	4-22-75		
ENG	[illegible]	PROD	D. Rogers	ISSUED SECT.	1
DATE	4/25/75	DATE	4-28-75		

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION DTE2Ø
1	M8552	1Ø/11 DATA PATH	1
2	M8553	1Ø/11 BUS AND DATA CONTROL	1
3	M8554	11/1Ø BUS DATA CONTROL	1
~~4~~	~~C-IA-5408780-0-0~~	~~PRIORITY PLUG~~	~~1~~

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.	ECO NO.
1Ø/11 INTERFACE	//	A	PL	DTE2Ø-Ø-Ø	A	DTE2Ø-00001
	SHEET 1 OF 1	DIST.				

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

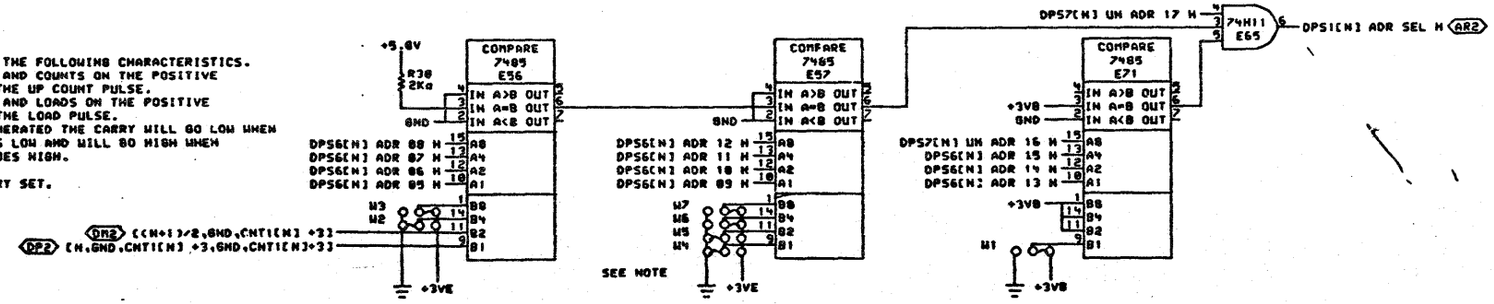


NOTES:

THE 74193 UP/DOWN COUNTER HAS THE FOLLOWING CHARACTERISTICS.

- UP-COUNT: SETS UP WHEN LOW AND COUNTS ON THE POSITIVE TRANSITION OF THE UP COUNT PULSE.
- LOAD: SETS UP WHEN LOW AND LOADS ON THE POSITIVE TRANSITION OF THE LOAD PULSE.
- CARRY: IF A CARRY IS GENERATED THE CARRY WILL GO LOW WHEN THE UP INPUT IS LOW AND WILL GO HIGH WHEN THE UP INPUT GOES HIGH.

*WIRE JUMPERS W1-W7 ARE FACTORY SET.



DTE SLOT LOCATIONS

TYPE	N=	SLOT
SINGLE	1	2AF8
MULTIPLE	1	2AF83
	2	2AF85
	3	2AF88
	4	2AF18

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REVISIONS		
CHK	CHANGE NO.	REV
MJ	M2552-MR006	D

digital

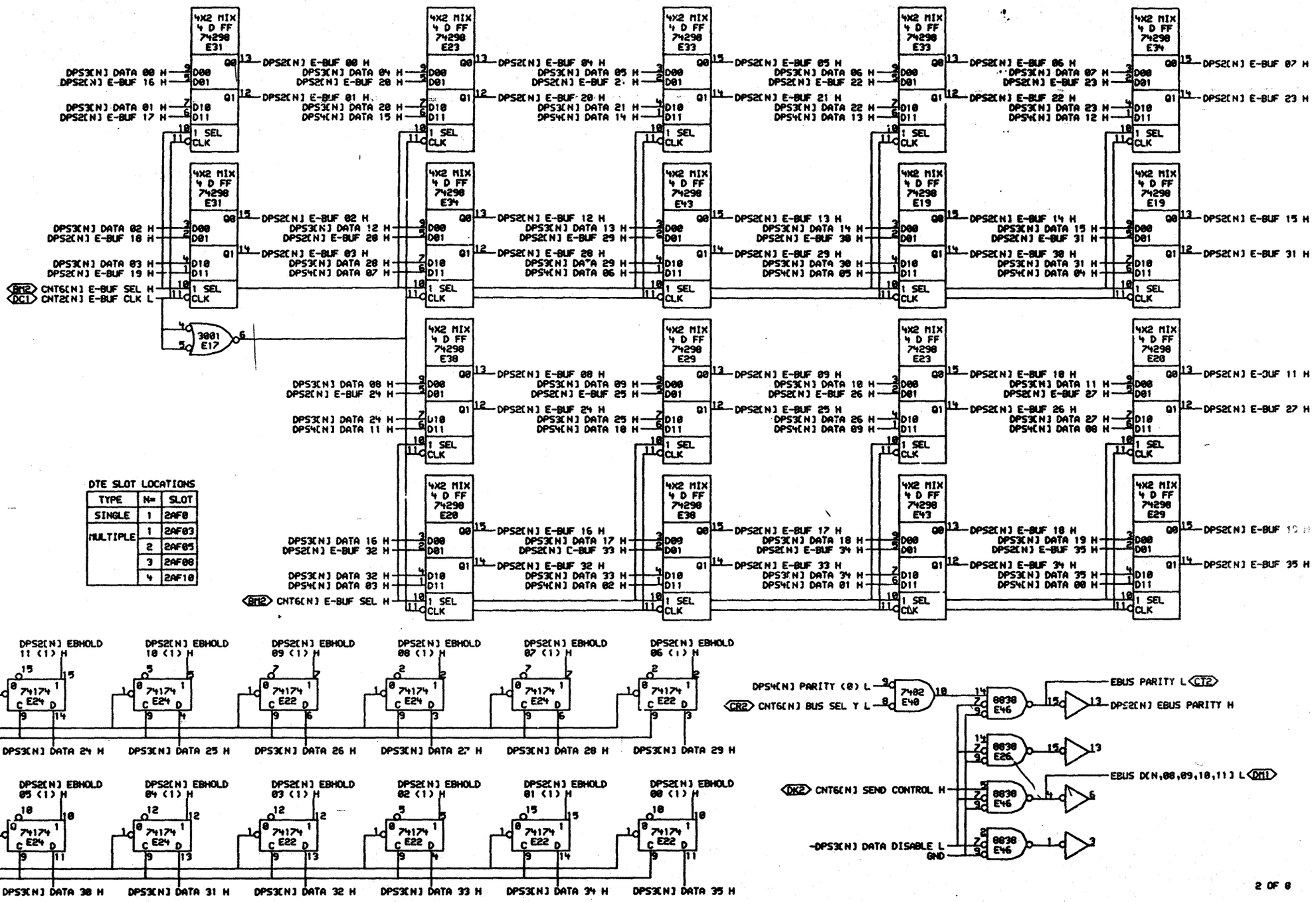
PS1<BOWEN.SCRATCH>DPS1RS.DRW 26-JAN-81 15:15

FIRST USED ON OPTION/MODEL: DTE20

DRN:	DATE: 26-JAN-81	ENG: T.BOWEN	DATE: 17 MAR 81
CHK'D: D.DELLORCO	DATE: 17 MAR 81	BOARD LOCATION:	
	SHEET 1 OF 1	NEXT HIGHER ASSEMBLY: B-DD-M8532-0	

TITLE: DATA PATH AND STATUS

SIZE	CODE	NUMBER	REV.
D	CS	M8552-0-DPS1	D



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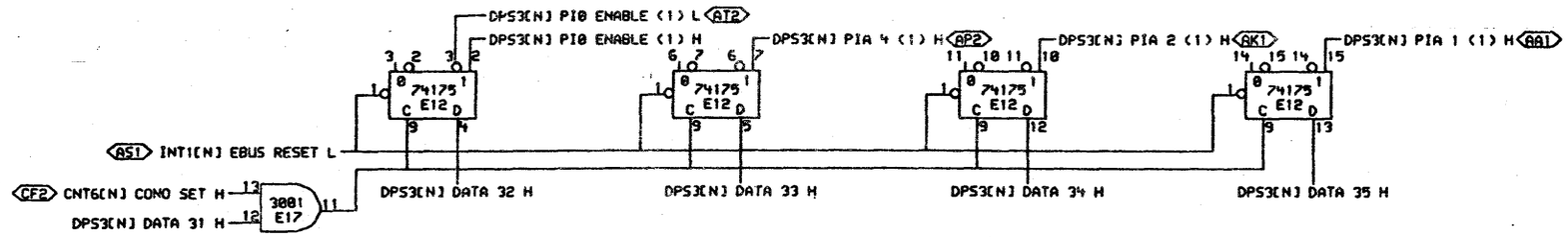
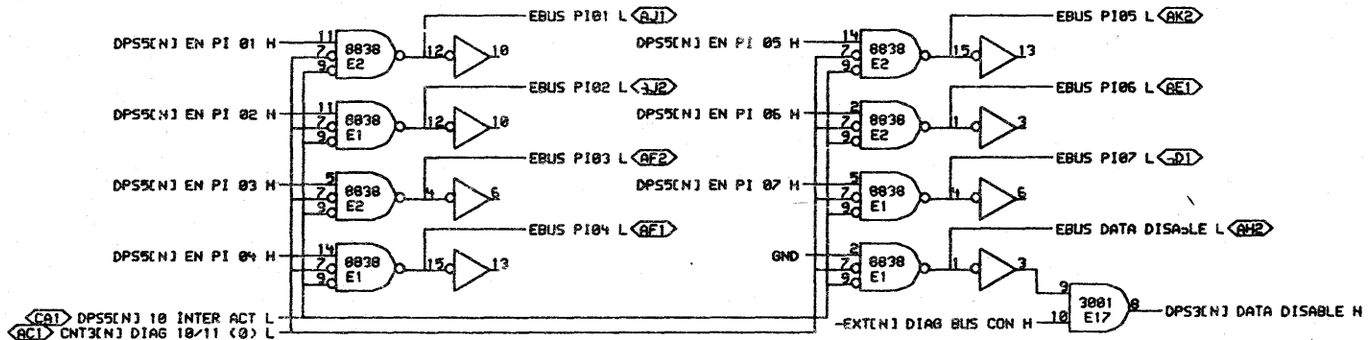
REVISIONS		
CHK	CHANGE NO.	REV
	M8552-0000	B
	W. BRUCKERT 1/7/77	

digital
DPS2RS.DRW[4,613] 09-FEB-77 12:58
FIRST USED ON OPTION/MODEL: DTE20
DRN: K. Landry
CHK: D. Stephenson
DATE 10-FEB-77
ENG: W. Bruckert
DATE 23FEB77
BOARD LOCATION:
SHEET 2 OF 8
NEXT HIGHER ASSEMBLY: 8-DD-M8552-0

TITLE: DATA PATH AND STATUS

SIZE	CODE	NUMBER	REV.
D	CS	M8552-0-DPS2	B





DTE SLOT LOCATIONS

TYPE	N=	SLOT
SINGLE	1	2AF0
MULTIPLE	1	2AF03
	2	2AF05
	3	2AF08
	4	2AF10

3A OF 8

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REVISIONS		
CHK	CHANGE NO.	REV

M8552-0-DPS3 B
W. BRUCKERT

digital

DPS3A2.DRW[4,613] 09-FEB-77 12:59

DRW. J. Toomey DATE 11-FEB-77
CHK. [illegible] DATE 11/77
ENG. W. Bruckert DATE 23FEB77
BOARD LOCATION:
SHEET 1 OF 2
NEXT HIGHER ASSEMBLY:
B-DD-M8552-0
FIRST USED ON OPTION/MODEL: DTE20

TITLE: DATA PATH AND STATUS

SIZE	CODE	NUMBER	REV.
D	CS	M8552-0-DPS3	B

DPS3[N] E-BUS MIX 00 H
DPS3[N] E-BUS MIX 01 H
DPS3[N] E-BUS MIX 02 H
DPS3[N] E-BUS MIX 06 H
GND
-DPS3[N] DATA DISABLE L
8838 E46
8838 E26
8838 E36
8838 E28
8838 E42
8838 E41
EBUS D00 L CP1 — DPS3[N] E-BUS MIX 04 H — DPS3[N] DATA 00 H
EBUS D01 L CJ2 — DPS3[N] E-BUS MIX 05 H — DPS3[N] DATA 01 H
EBUS D02 L BV2 — DPS3[N] E-BUS MIX 03 H — DPS3[N] DATA 02 H
EBUS D06 L CK1 — DPS3[N] E-BUS MIX 07 H — DPS3[N] DATA 06 H — CE1 CNT6[N] BUS SEL 2 L
EBUS D04 L CS1 — DPS2[N] E-BUF 00 H — DPS3[N] DATA 04 H
EBUS D05 L CM2 — DPS2[N] E-BUF 09 H — DPS3[N] DATA 05 H
EBUS D03 L CR1 — DPS2[N] E-BUF 10 H — DPS3[N] DATA 03 H
EBUS D07 L CV2 — DPS2[N] E-BUF 11 H — DPS3[N] DATA 07 H — BL1 CNT6[N] BUS SEL X L
EBUS D08 L BP1 — DPS2[N] E-BUF 12 H — DPS3[N] DATA 08 H
EBUS D09 L BS1 — DPS2[N] E-BUF 13 H — DPS3[N] DATA 09 H
EBUS D10 L BM1 — DPS2[N] E-BUF 14 H — DPS3[N] DATA 10 H
EBUS D11 L BN1 — DPS2[N] E-BUF 15 H — DPS3[N] DATA 11 H — DF2 CNT6[N] BUS SEL A L
EBUS D12 L CL2 — DPS2[N] E-BUF 16 H — DPS3[N] DATA 12 H
EBUS D13 L CK2 — DPS2[N] E-BUF 17 H — DPS3[N] DATA 13 H
EBUS D14 L CM1 — DPS2[N] E-BUF 18 H — DPS3[N] DATA 14 H
EBUS D15 L CH2 — DPS2[N] E-BUF 19 H — DPS3[N] DATA 15 H — DF2 CNT6[N] BUS SEL A L
EBUS D16 L CU2 — DPS3[N] DATA 16 H
EBUS D17 L CL1 — DPS3[N] DATA 17 H
EBUS D18 L CS2 — DPS3[N] DATA 18 H
EBUS D19 L CP2 — DPS3[N] DATA 19 H

DPS2[N] E-BUF 23 H
DPS2[N] E-BUF 24 H
DPS2[N] E-BUF 25 H
DPS2[N] E-BUF 28 H
CR2 CNT6[N] BUS SEL Y L
-DPS3[N] DATA DISABLE L
8838 E39
8838 E18
8838 E16
8838 E11
EBUS D23 L CN1 — DPS3[N] E-BUS MIX 20 H — DPS3[N] DATA 23 H
EBUS D24 L CC1 — DPS3[N] E-BUS MIX 21 H — DPS3[N] DATA 24 H
EBUS D25 L BU2 — DPS3[N] E-BUS MIX 22 H — DPS3[N] DATA 25 H
EBUS D28 L CJ1 — DPS3[N] E-BUS MIX 26 H — DPS3[N] DATA 28 H
EBUS D20 L BE1 — DPS3[N] E-BUS MIX 27 H — DPS3[N] DATA 20 H
EBUS D21 L BD1 — DPS3[N] E-BUS MIX 29 H — DPS3[N] DATA 21 H
EBUS D22 L BD2 — DPS3[N] E-BUS MIX 30 H — DPS3[N] DATA 22 H
EBUS D26 L BE1 — DPS3[N] E-BUS MIX 31 H — DPS3[N] DATA 26 H
GND
EBUS D27 L BF2 — DPS3[N] E-BUS MIX 32 H — DPS3[N] DATA 27 H
EBUS D29 L BP1 — DPS3[N] E-BUS MIX 33 H — DPS3[N] DATA 29 H
EBUS D30 L BN1 — DPS3[N] E-BUS MIX 34 H — DPS3[N] DATA 30 H
EBUS D31 L BE2 — DPS3[N] E-BUS MIX 35 H — DPS3[N] DATA 31 H
GND
EBUS D32 L BC1 — DPS3[N] DATA 32 H
EBUS D33 L BL1 — DPS3[N] DATA 33 H
EBUS D34 L BM1 — DPS3[N] DATA 34 H
EBUS D35 L BA1 — DPS3[N] DATA 35 H

DTE SLOT LOCATIONS

TYPE	N=	SLOT
SINGLE	1	2AF0
MULTIPLE	1	2AF03
	2	2AF05
	3	2AF08
	4	2AF10

4X2 MIX 74157 E27
4X2 MIX 74157 E13
4X2 MIX 74157 E8
4X2 MIX 74157 E6
4X2 MIX 74157 E37
1 SEL EN
DPS2[N] E-BUF 00 H
DPS2[N] E-BUF 04 H
DPS2[N] E-BUF 01 H
DPS2[N] E-BUF 05 H
DPS2[N] E-BUF 02 H
DPS2[N] E-BUF 06 H
DPS2[N] E-BUF 26 H
CD1 CNT2[N] PROTECTION OFF (0) H
BL1 CNT6[N] BUS SEL X L
DPS3[N] E-BUS MIX 00 H — EL2 -EXT[N] DIAG BUS CON H
DPS3[N] E-BUS MIX 01 H — AU2 INT1[N] PWR FAIL H
DPS3[N] E-BUS MIX 02 H — DPS5[N] 10 REQ INT (1) H
DPS3[N] E-BUS MIX 06 H — BT2 CNT6[N] IOP6 DATAI H
DPS2[N] E-BUF 20 H
DPS2[N] E-BUF 21 H
DPS2[N] E-BUF 22 H
DPS2[N] E-BUF 26 H — BL2 CNT6[N] CONI SEND H — AH2 CNT6[N] EMIX EN L
DPS3[N] E-BUS MIX 20 H — DPS5[N] 10 TO11 ERR TERM (1) H
DPS3[N] E-BUS MIX 21 H — DPS5[N] 10 TO11 NORM TERM (1) H
DPS3[N] E-BUS MIX 22 H — DPS5[N] 10 TO10 NORM TERM (1) H
DPS3[N] E-BUS MIX 26 H — DPS5[N] 10 TO10 ERR TERM (1) H
DPS2[N] E-BUF 27 H
DPS2[N] E-BUF 29 H
DPS2[N] E-BUF 30 H
DPS2[N] E-BUF 31 H
DPS3[N] E-BUS MIX 27 H — DPS3[N] PI0 ENABLE (1) H
DPS3[N] E-BUS MIX 29 H — AP2 DPS3[N] PIA 4 (1) H
DPS3[N] E-BUS MIX 30 H — AK1 DPS3[N] PIA 2 (1) H
DPS3[N] E-BUS MIX 31 H — AA1 DPS3[N] PIA 1 (1) H
DPS2[N] E-BUF 32 H
DPS2[N] E-BUF 33 H
DPS2[N] E-BUF 34 H
DPS2[N] E-BUF 35 H
DPS3[N] E-BUS MIX 32 H — DU2 CNT6[N] TRAN ACT (1) H
DPS3[N] E-BUS MIX 33 H — DA1 CNT6[N] OP CODE 1 H
DPS3[N] E-BUS MIX 34 H — DT2 CNT6[N] OP CODE 2 H
DPS3[N] E-BUS MIX 35 H — BL1 -CNT6[N] BUS SEL X H
DPS2[N] E-BUF 03 H
DPS2[N] E-BUF 04 H
DPS2[N] E-BUF 05 H
DPS2[N] E-BUF 07 H
GND
DPS3[N] E-BUS MIX 03 H
DPS3[N] E-BUS MIX 04 H
DPS3[N] E-BUS MIX 05 H
DPS3[N] E-BUS MIX 07 H

CNT6[N] BUS SEL 2 L
-CNT6[N] OP CODE 1 L
7432 E21
3001 E17
7432 E21
DPS3[N] E-BUS MIX 06 H

38 OF 8

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REVISIONS

CHK	CHANGE NO.	REV

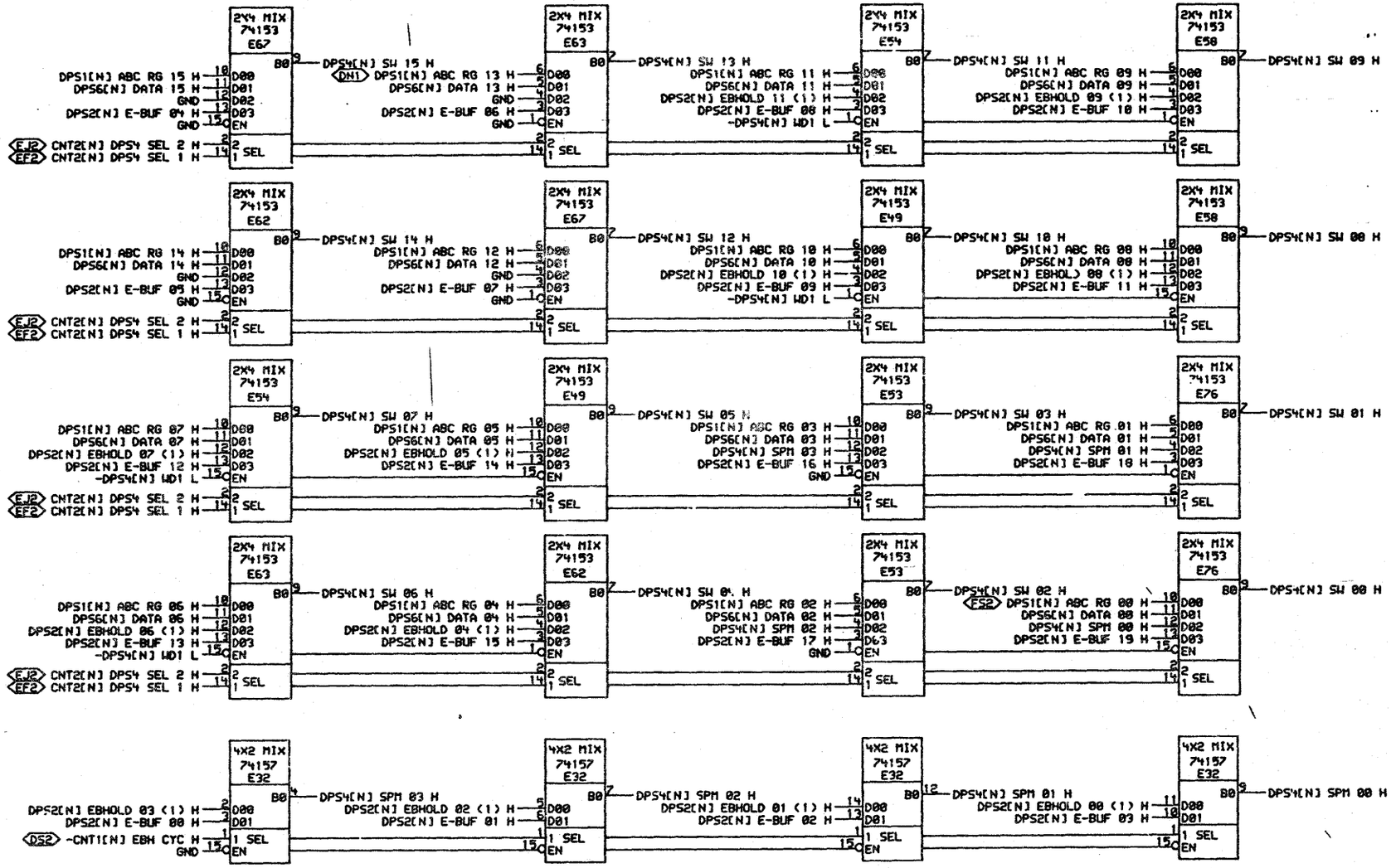
M8552-30005 | B
W. BRUCKERT 4/6/77

digital
DPS3RS.DRW[4,613] 09-FEB-77 13:02
FIRST USED ON OPTION/MODEL: DTE20
DES. J. Lemay
CHK. W. Stephenson
DATE 10-FEB-77
ENG. W. Gaudet
DATE 23FEB77
DATE 2/11/77
BOARD LOCATION:
SHEET 2 OF 2
NEXT HIGHER ASSEMBLY: B-DD-M8552-0

TITLE: DATA PATH AND STATUS

SIZE	CODE	NUMBER	REV.
D	CS	M8552-0-DPS3	B

REV. B
NUMBER M8552-0-DPS3
CODE CS
SIZE D



DTE SLOT LOCATIONS

TYPE	N=	SLOT
SINGLE	1	2AF0
MULTIPLE	1	2AF03
	2	2AF05
	3	2AF08
	4	2AF10

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REVISIONS		
CHK	CHANGE NO.	REV

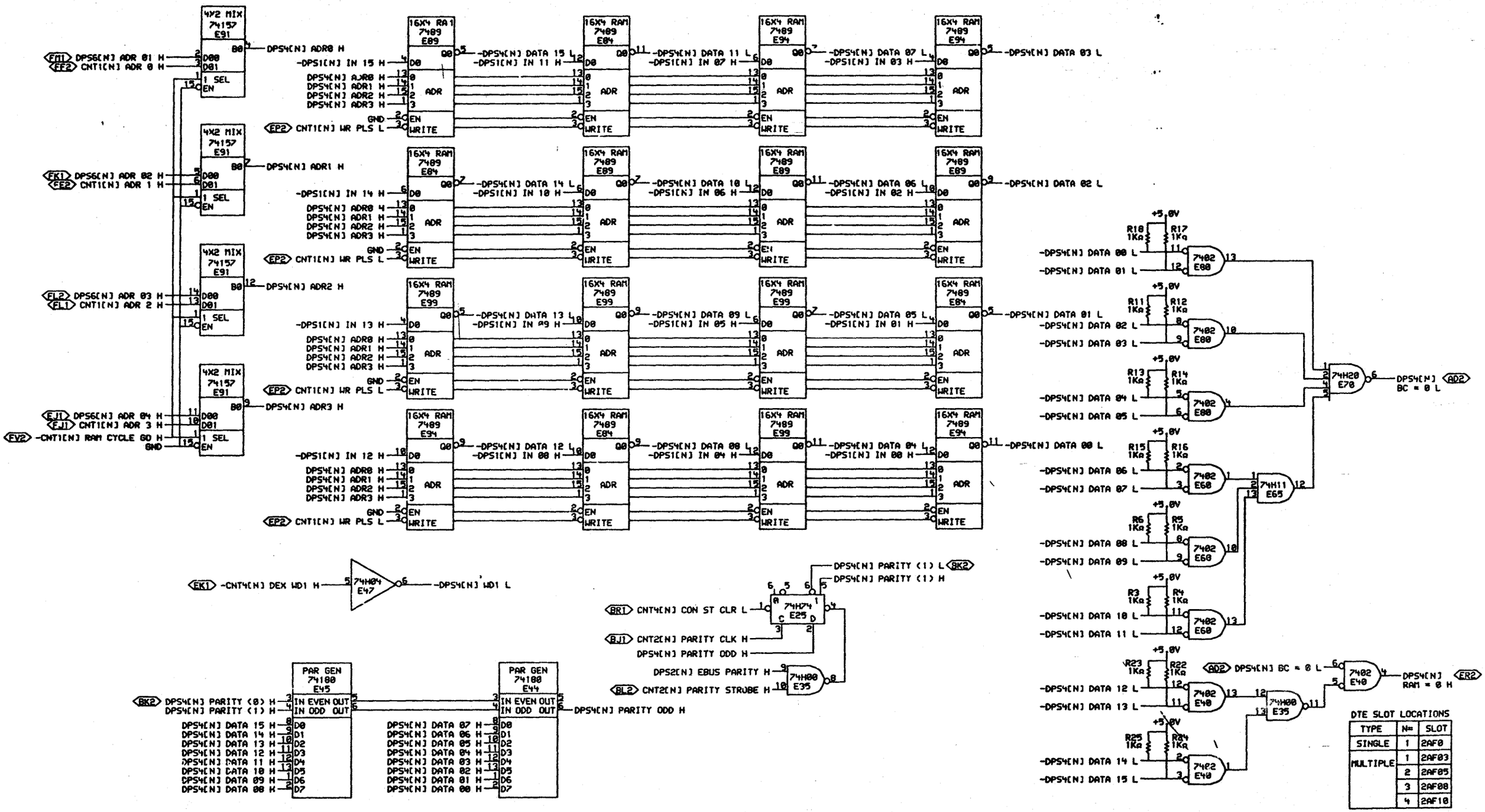
M8552-0000-5 B
W. BUCKERT

DPS4AR.DRW[4,613] 09-FEB-77 13:03
FIRST USED ON OPTION/MODEL: DTE20

DRN: J. Landry
CHK: D. Lemmo
DATE 11-FEB-77
ENG: W. Buckert
DATE 23-FEB-77
BOARD LOCATION:
SHEET 1 OF 2
NEXT HIGHER ASSEMBLY: B-DD-M8552-0

TITLE: DATA PATH AND STATUS

SIZE	CODE	NUMBER	REV.
D	CS	M8552-0-DPS4	B



48 OF 8

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REVISIONS

CHK	CHANGE NO.	REV

M8552-00005 | B
W. BRUCKERT 4/4/77

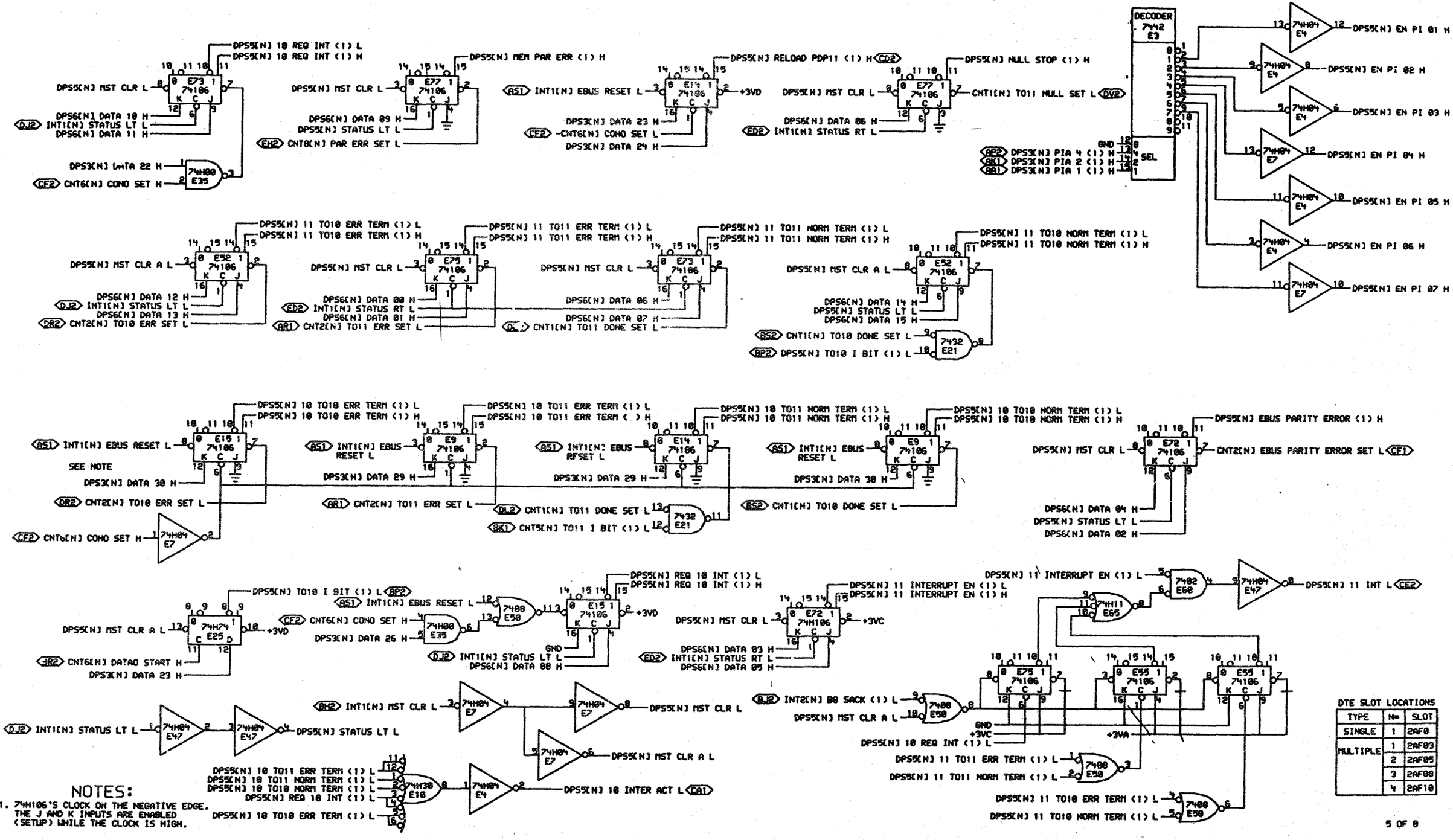
digital

DRW. S. Landry 11-FEB-77
CHK. W. Bruckert 2/11/77
ENG. N. Gaudet 23 FEB 77
DPS4RS.DRL[4,613] 09-FEB-77 13:03
FIRST USED ON OPTION/MODEL: DTE20
NEXT HIGHER ASSEMBLY: B-DD-M8552-0

TITLE: DATA PATH AND STATUS

SIZE	CODE	NUMBER	REV.
D	CS	M8552-0-DPS4	B

BOARD LOCATION: SHEET 2 OF 2



NOTES:

1. 74H106'S CLOCK ON THE NEGATIVE EDGE. THE J AND K INPUTS ARE ENABLED (SETUP) WHILE THE CLOCK IS HIGH.

DTE SLOT LOCATIONS

TYPE	N=	SLOT
SINGLE	1	2AF0
MULTIPLE	1	2AF03
	2	2AF05
	3	2AF08
	4	2AF10

5 OF 8

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REVISIONS		
CHK	CHANGE NO.	REV

M8552-00005 D
D.W.L.T. 4/1/77
W. BRUCKERT
12 APR 77

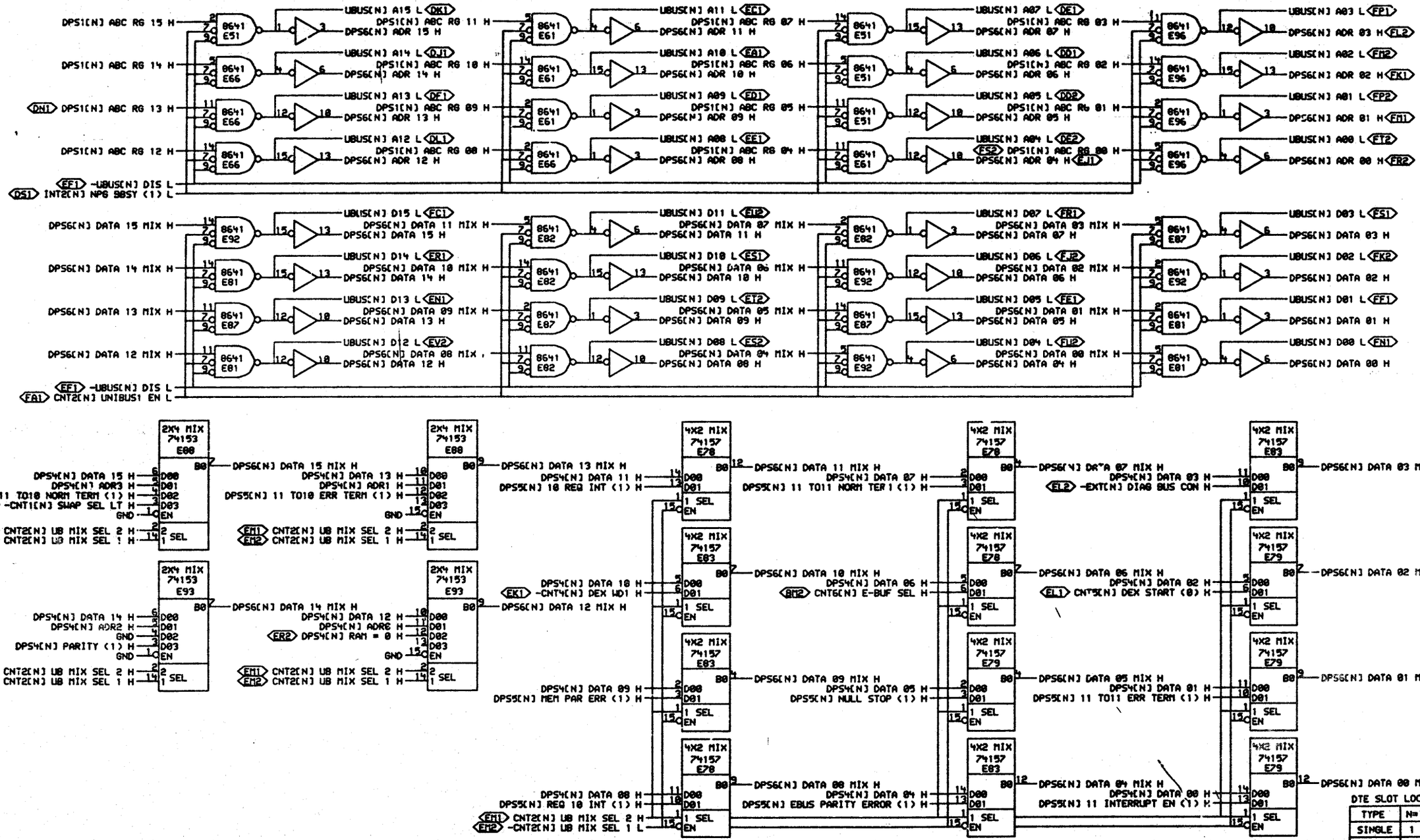
digital

DRN: S. Landry
CHK: W. Bruckert
DPS5RS.DRW[4,613] 05-FEB-77 13:04
FIRST USED ON OPTION/MODEL: DTE20

DATE 10-FEB-77 ENG. W. Bruckert DATE 23FEB77
DATE 2/1/77 BOARD LOCATION:
SHEET 1 OF 1
NEXT HIGHER ASSEMBLY: B-DD-M8552-0

TITLE: DATA PATH AND STATUS

SIZE	CODE	NUMBER	REV.
D	CS	M8552-0-DPS5	D



DTE SLOT LOCATIONS

TYPE	N=	SLOT
SINGLE	1	2AF0
MULTIPLE	1	2AF03
	2	2AF05
	3	2AF00
	4	2AF10

6 OF 0

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REVISIONS		
CHK	CHANGE NO.	REV

M8552-XXXXS | B
W. BRUCKERT

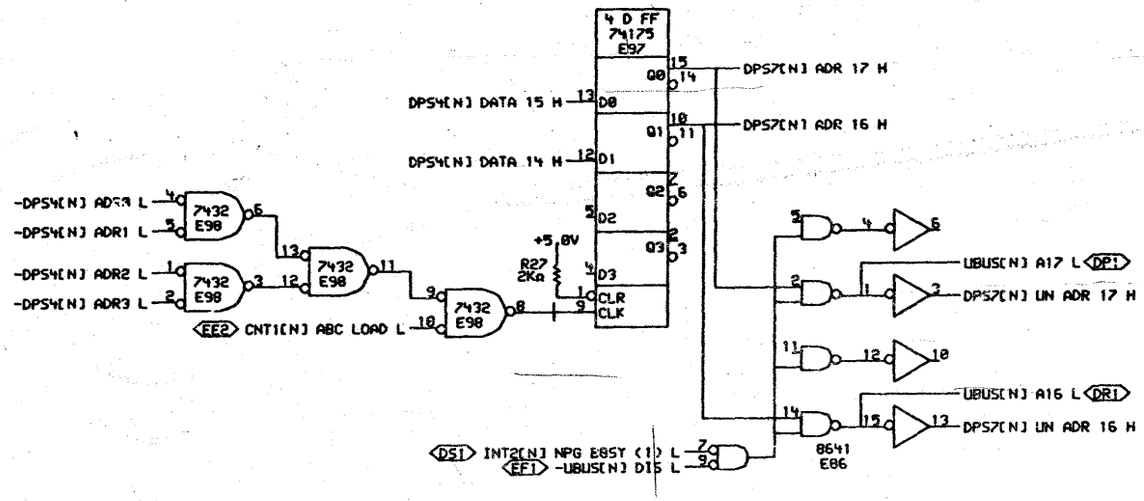
digital

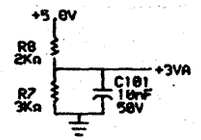
DRN. D. Lapsley
CHK. W. Bruckert
DPSSGRS.DRW[4,613] 09-FEB-77 13:05

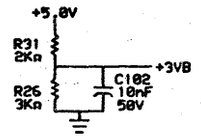
DATE 10-FEB-77 ENG. M. Gouchet
DATE 23 FEB 77 BOARD LOCATION:
DATE SHEET OF
NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: DTE20 B-DD-M8552-0

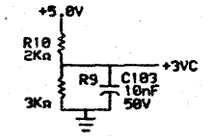
TITLE: DATA PATH AND STATUS

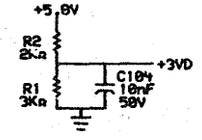
SIZE	CODE	NUMBER	REV.
D	CS	M8552-0-DPS6	B

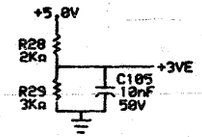


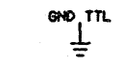












DTE SLOT LOCATIONS

TYPE	N=	SLOT
SINGLE	1	2AF0
MULTIPLE	1	2AF03
	2	2AF05
	3	2AF08
	4	2AF10

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REVISIONS		
CHK	CHANGE NO.	REV
	M8552-00005	D
	W. BRUCKERT	9/9/77

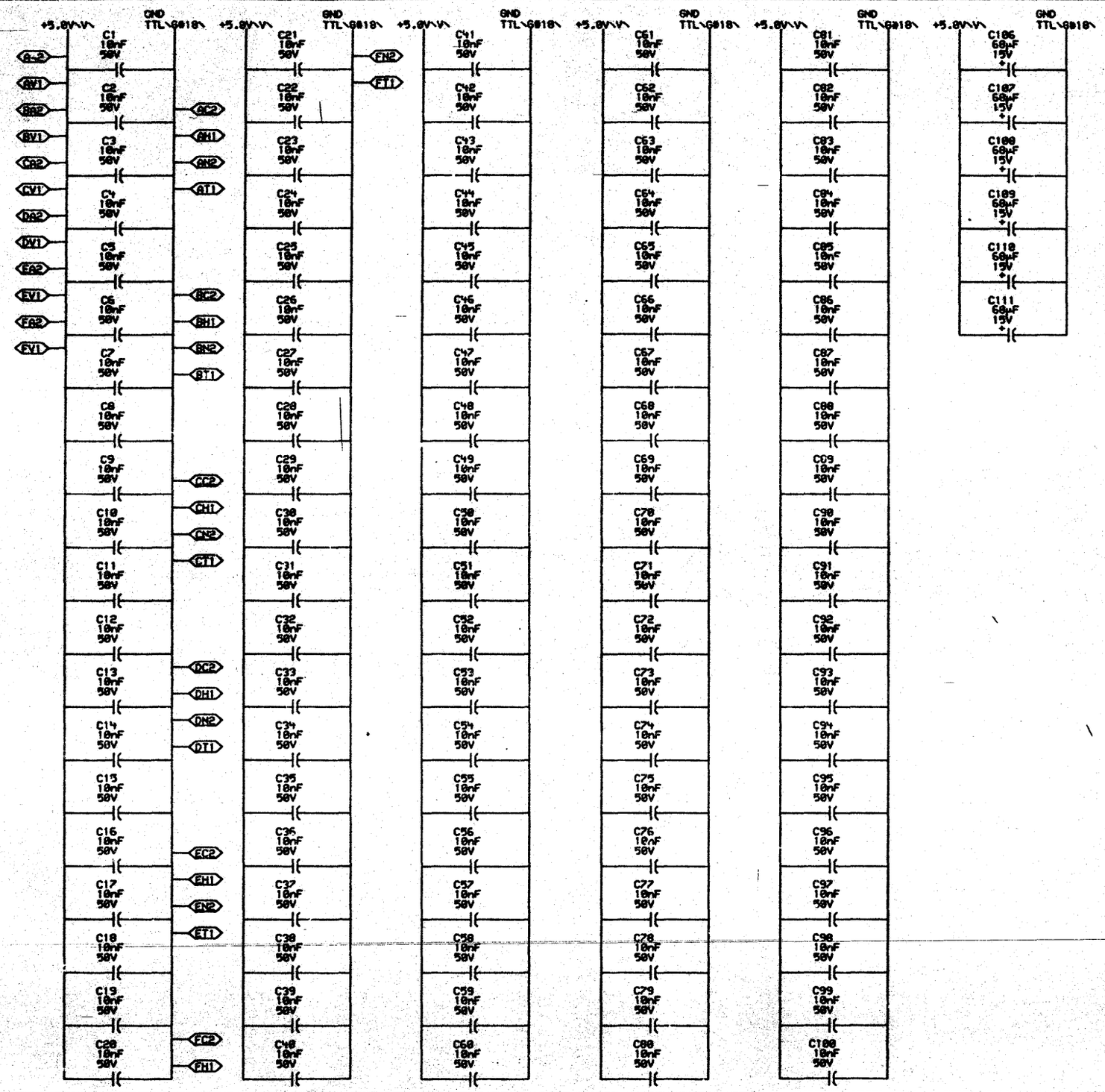
digital

DRN. K. Toomey 09-FEB-77 13:06
CHK'D W. Bruckert 2/22/77
DPS7RS.DRW[4,613]
FIRST USED ON OPTION/MODEL: DTE20

DATE 11-FEB-77
DATE 2/22/77
ENG. W. Bruckert DATE 2/22/77
BOARD LOCATION:
SHEET 1 OF 1
NEXT HIGHER ASSEMBLY: B-DD-M9552-0

TITLE: DATA PATH AND STATUS

SIZE	CODE	NUMBER	REV.
D	CS	M8552-0-DPS7	D



8 OF 8

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REVISIONS		
CHK	CHANGE NO.	REV

M8552-00006 D
W.BRUCKERT

digital
DRN. J. Tormey 11-FEB-77
CHK. W. Bruckert 2/1/77
DPS8RS.DRW[4,613] 16-FEB-77 10:36
FIRST USED ON OPTION/MODEL: DTE20
ENG. W. Bruckert 23FEB77
BOARD LOCATION:
SHEET 1 OF 1
NEXT HIGHER ASSEMBLY: B-DD-M8552-0

TITLE: DATA PATH & STATUS PWR, CAP & GND

SIZE	CODE	NUMBER	REV.
D	CS	M8552-0-DPS8	D

REV. D
NUMBER M8552-0-DPS8
CODE CS
SIZE D

CNT7[N] WR CLK+1 (1) H
CNT1[N] RAM CYCLE (1) H
74H00 E64
CNT1[N] RAM CYCLE SYNC (1) L
CNT1[N] RAM CYCLE SYNC (1) H
3001 E70
CNT5[N] MST CLR L
CNT7[N] SHIFT CLK (1) H
74H74 E58 +3 C
CNT2[N] RAM ADR H
CNT1[N] RAM CYC CLR L
74H74 E65 +3 D
CNT1[N] RAM CYCLE SYNC (1) L
CNT1[N] RAM CYCLE (0) L
74H00 E48
-CNT1[N] SSYN TIME H
74H11 E59
-CNT1[N] DEX WORD L
CNT5[N] DEP (0) L
3001 E50
74H04 E2
CNT8[N] RAM CLR ENBL H
CNT7[N] WR CLK (1) H
74H10 E83
CNT1[N] RAM CYC CLR L

CNT4[N] TO10 TRANS (1) H
CNT1[N] EBH STORE (1) H
74H00 E43
CNT1[N] EBH CYC L BD2
CNT1[N] EBH STORE (1) L
CNT1[N] EBH STORE (1) H
74H74 E58
74H74 E14 +3 B
DK1 CNT6[N] DATA0 START H
CNT4[N] EBH SET L
CNT5[N] MST CLR L
CNT4[N] DEX (0) H

CNT5[N] TO10 BYTE MODE (1) L
CNT4[N] TO10 FL WR L
7402 E8
CA1 -CNT1[N] RAM CYCLE 60 H
74H00 E25
-CNT1[N] SWAP SEL LT H CE2

CNT1[N] RAM CYCLE (1) H
CH1 CNT4[N] INH CLK (1) H
8J2 -CNT1[N] ABC LOAD H
74H10 E36
CNT1[N] RAM CYCLE 60 L CA1

CNT1[N] WR OR STORE L
CNT1[N] ADR RD L
74H10 E12
CNT1[N] ADR 3 H BV2
BD2 CNT1[N] EBH CYC L
CNT4[N] DEX ADR1 L
CNT4[N] DEX ADR2 L
74H20 E26
CNT1[N] ADR 2 H AP1
CNT1[N] BC RD L
CNT1[N] BC STORE L
3001 E27
CNT1[N] DEX WD2 OR 1 L
BD2 CNT1[N] EBH CYC L
74H20 E26
CNT1[N] ADR 1 H AU2
CNT4[N] TO10 E-BUF FILL L
BP2 CNT4[N] TO11 FILE RD L
74H11 E7
CNT4[N] TO10 FL WR L
CNT4[N] TO11 E-BUF STORE L
3001 E29
CNT1[N] DATA STORE L

CNT4[N] DEX ADR2 L
CNT4[N] DEX WD3 L
BF1 CNT4[N] DEX WD1 L
74H20 E44
CNT1[N] ADR 0 H FE1
CNT4[N] TO11 TRANS (1) H
-CNT1[N] DLY CNT RD H
74H00 E48
CNT4[N] DEX WD2 L
BF1 CNT4[N] DEX WD1 L
3001 E16
CNT1[N] DEX WD2 OR 1 L

CNT5[N] MST CLR L
BA1 CNT2[N] TO10 ERR SET L
3001 E27
CNT1[N] 10 ADR CLR L
3001 E16
CNT1[N] 10 BC CLR L
CNT4[N] TO10 BC RD L
7432 E1
CNT1[N] TO10 DONE SET L BL1
AC1 DPS4[N] BC = 0 L
CNT4[N] GD WR CLK+1 L
7432 E1
CNT5[N] MST CLR L
BF2 CNT2[N] TO11 ERR SET L
3001 E32
CNT1[N] 11 ADR CLR L
CNT4[N] TO11 BC RD L
7432 E1
CNT5[N] TO11 NULL STOP (1) L
BP2 CNT4[N] TO11 FILE RD L
7402 E8
3001 E10
CNT1[N] 11 BC CLR L
3001 E6
CNT1[N] TO11 DONE SET L AN1
AL2 DPS4[N] RAM = 0 H
CNT4[N] GD SHF CLK H
74H10 E12
CNT1[N] TO11 NULL SET L AR2

DJ1 DPS1[N] ABC RG 00 H
CNT1[N] RAM CYCLE (0) H
74H11 E59
CNT1[N] SWAP H DF1
CNT1[N] DATA STORE L
74H04 E33
CNT2[N] NP0 BBSY H
CNT1[N] DLY INC L
CNT4[N] TO11 BC INC L
CNT4[N] TO10 BC ADD L
74H20 E24
74H50 E28
CNT1[N] ABC INC L BL1
CNT4[N] GD WR CLK H
CNT5[N] TO11 BYTE MODE (0) H
CNT4[N] TO11 ADR ADD H
CNT5[N] TO10 BYTE MODE (0) H
CNT4[N] TO10 E-BUF FILL H
CNT4[N] TO11 DLY RD L
CNT4[N] TO10 DLY RD L
3001 E27
CNT1[N] DLY CNT RD L
CNT4[N] TO10 ADR RD L
CNT4[N] TO11 SHIFT L
3001 E27
CNT1[N] ADR RD L
CNT4[N] TO11 DLY INC L
CNT4[N] TO10 DLY INC L
3001 E10
CNT1[N] DLY INC L
74H04 E2
CNT1[N] DLY INC H
CNT4[N] GD SHF CLK H
74H00 E37
CNT1[N] ABC LOAD L 8J2
CNT1[N] BC RD L
CNT1[N] ADR RD L
CNT1[N] DLY CNT RD L
74H10 E36

CNT4[N] TO11 BC RD L
CNT4[N] TO10 BC RD L
3001 E16
CNT1[N] BC RD L
CNT4[N] TO10 BC INC L
CNT4[N] TO11 I/O FUNC L
3001 E29
CNT1[N] BC STORE L

CNT1[N] BC STORE L
BD2 CNT1[N] EBH CYC L
74H00 E40
CNT4[N] GD WR CLK H
BM1 INT2[N] WR RAM (1) H
CNT4[N] TO10 TRANS (1) H
74H52 E63
CNT1[N] WR PLS H
74H04 E73
CNT1[N] WR PLS L ES1
CNT1[N] WR OR STORE L
CNT4[N] TO10 E-B REQ L
CNT4[N] TO11 ADR INC L
CNT1[N] DATA STORE L
74H11 E7
74H00 E40
CNT5[N] DEP (0) H
74H00 E55
BF1 CNT4[N] DEX WD1 L
CNT2[N] DEX WD2 OR 3 L
74H00 E40
CNT1[N] DEX WORD H
CF1 INT1[N] DATO H
CNT1[N] RAM CYCLE SYNC (1) H
3001 E70
CNT7[N] WR CLK (1) H
CNT1[N] RAM CYCLE (1) H

+5.0V
R3 330Ω
CNT1[N] +3 BR2
C102 10nF 50V
R4 680Ω

DTE SLOT LOCATIONS

TYPE	N=	SLOT
SINGLE	1	2AF04
MULTIPLE	1	2AF02
	2	2AF04
	3	2AF07
	4	2AF09

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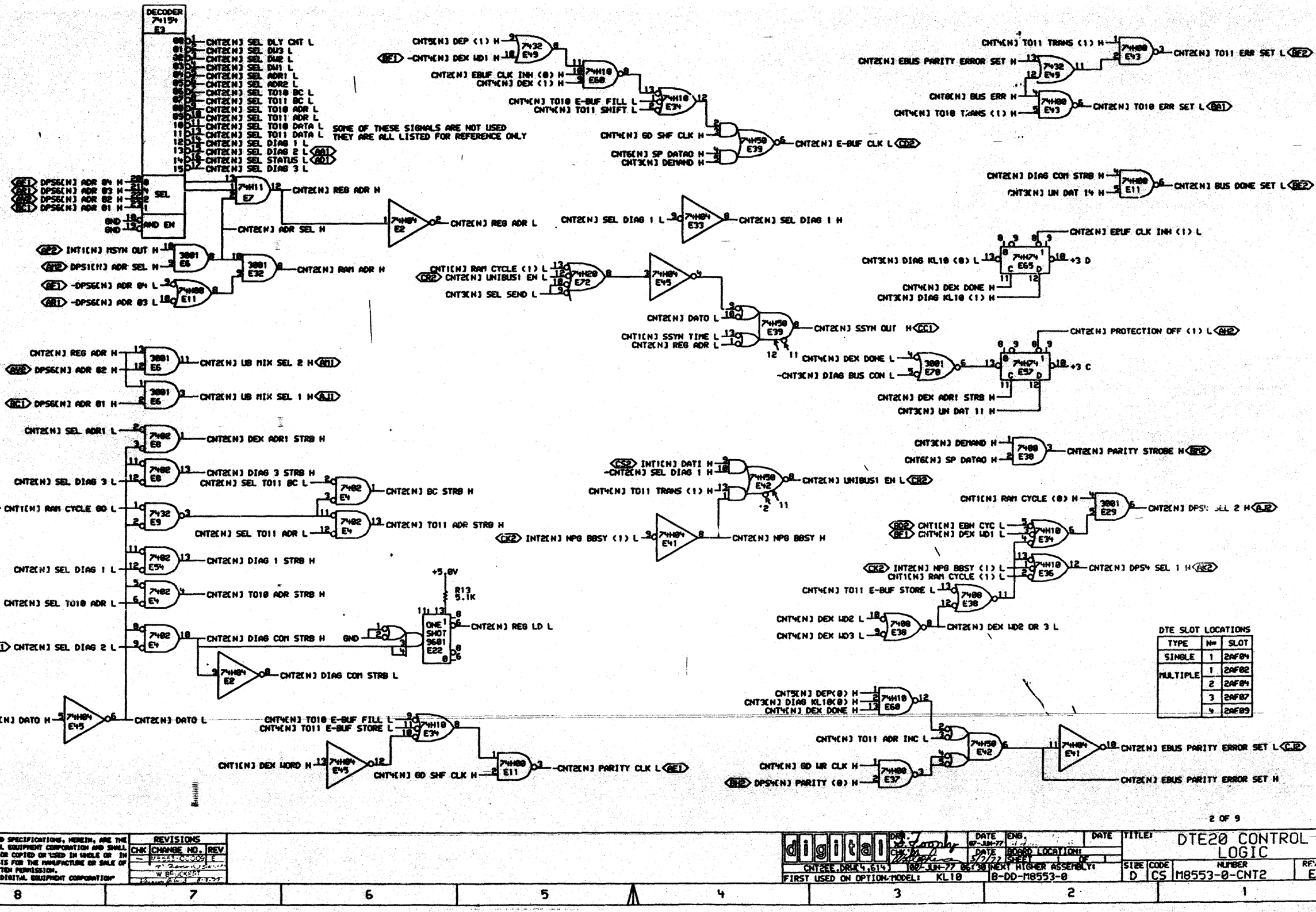
REVISIONS		
CHK	CHANGE NO.	REV

M8553-[illegible] C
W. BRUCKERT

digital
DRW. S. Loomis 23-FEB-77
CHKD [illegible] 2/23/77
ENG [illegible] 23-FEB-77
BOARD LOCATION:
SHEET 1 OF 1
CNT1EE.DRU[4,614] 10-FEB-77 16:54
FIRST USED ON OPTION/MODEL: KL10
NEXT HIGHER ASSEMBLY: B-DD-M8553-0

TITLE: DTE20 CONTROL LOGIC
SIZE D | CODE CS | NUMBER M8553-0-CNT1 | REV. C



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REVISIONS

CHK	CHANGE NO.	REV
—	M8553-0-0009	E

W BRUCKERT

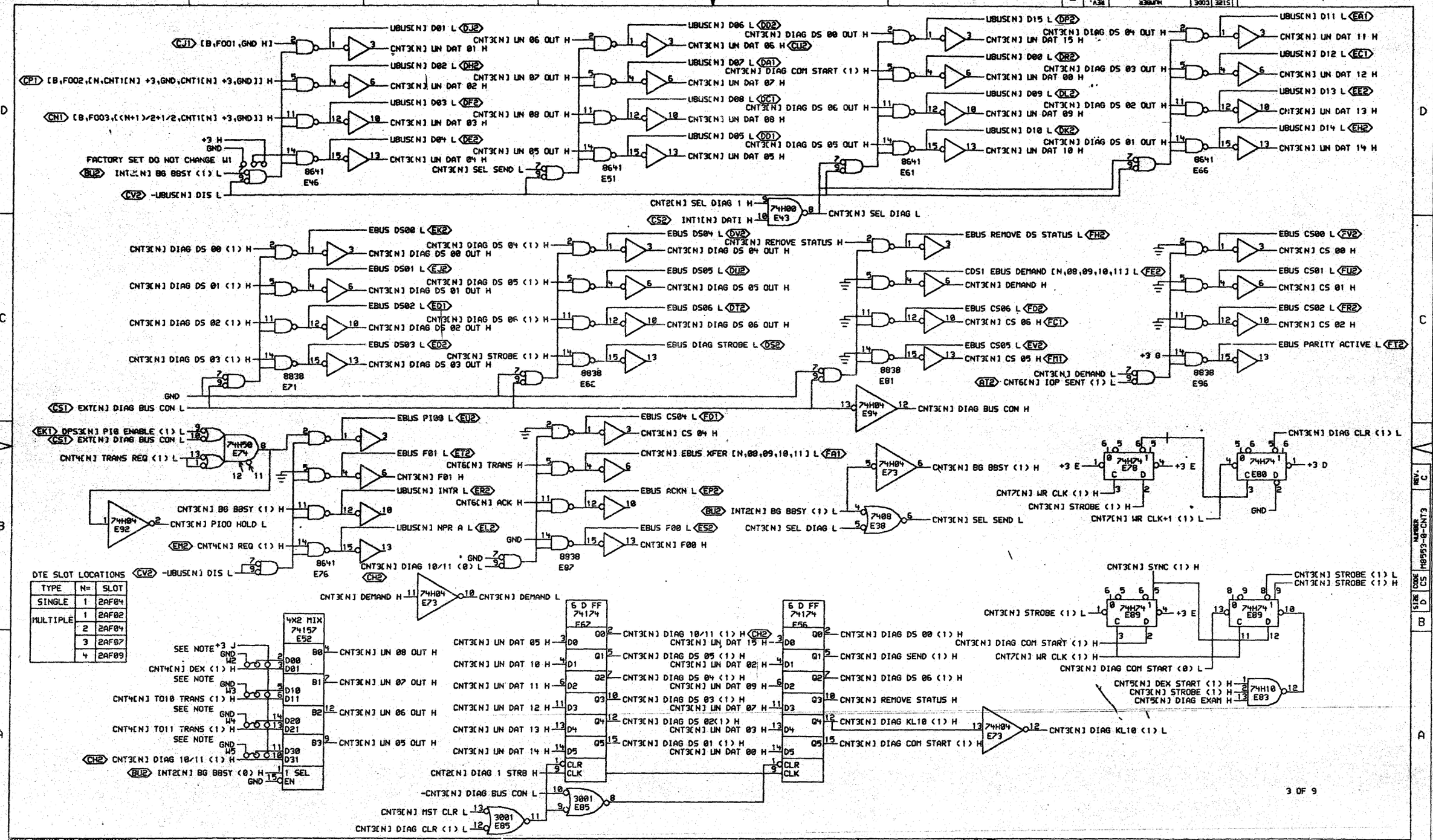
digital

DES.	DATE	ENG.	DATE
M. Tomlinson	07-JUN-77		
CHK	DATE	BOARD LOCATION:	
	5/27/77	SHEET 1 OF 9	

CNT2EE.DRW 4.614 07-JUN-77 06:30
FIRST USED ON OPTION/MODEL: KL10
NEXT HIGHER ASSEMBLY: B-DD-M8553-0

TITLE: DTE20 CONTROL LOGIC

SIZE	CODE	NUMBER	REV.
D	CS	M8553-0-CNT2	E



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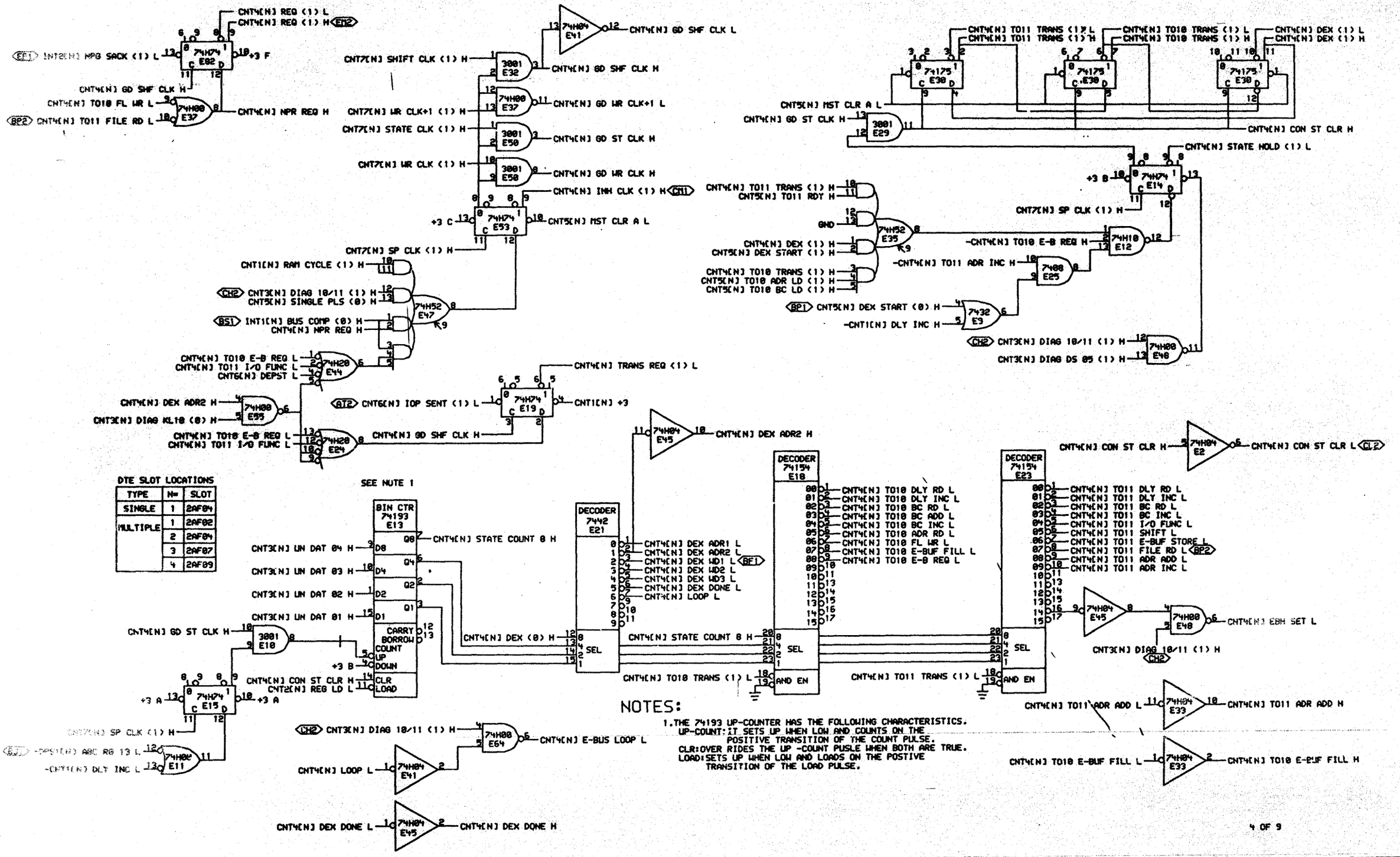
REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. Zaorsky DATE 27-NOV-84
CHK'D. [illegible] DATE 15-JAN-85
ENG. [illegible] DATE
BOARD LOCATION:
SHEET 1 OF 1
PS:<DAME>CNT3EE.DRW 27-NOV-84 10:01
NEXT HIGHER ASSEMBLY: B-DD-M8553-0
FIRST USED ON OPTION/MODEL: KL10

TITLE: DTE20 CONTROL LOGIC

SIZE	CODE	NUMBER	REV.
D	CS	M8553-0-CNT3	C



NOTES:

1. THE 74193 UP-COUNTER HAS THE FOLLOWING CHARACTERISTICS.
   UP-COUNT: IT SETS UP WHEN LOW AND COUNTS ON THE POSITIVE TRANSITION OF THE COUNT PULSE.
   CLR: OVER RIDES THE UP -COUNT PUSLE WHEN BOTH ARE TRUE.
   LOAD: SETS UP WHEN LOW AND LOADS ON THE POSTIVE TRANSITION OF THE LOAD PULSE.

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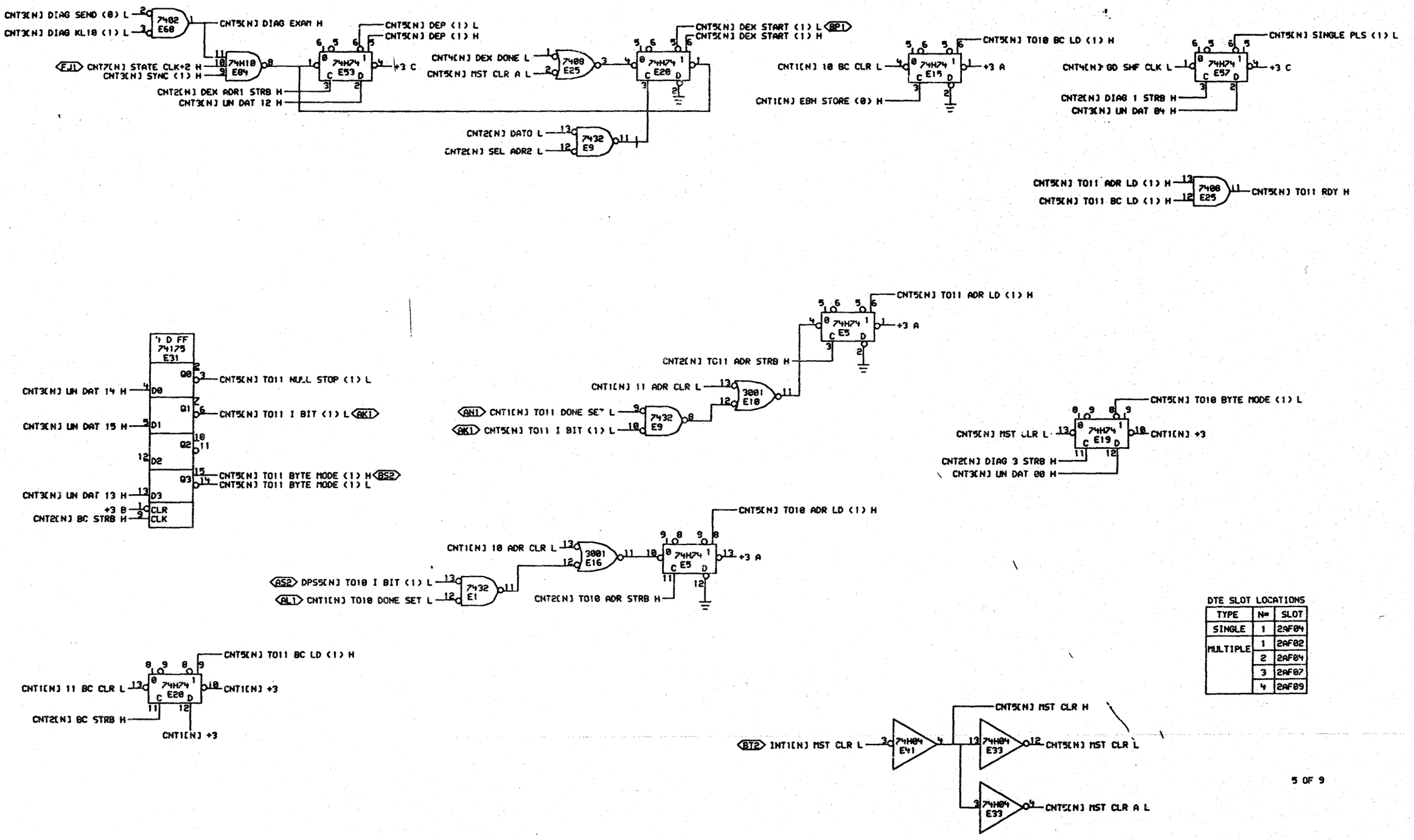
REVISIONS			M8553-00308	E
NR	CHANGE NO.	REV	W. BRUCKERT	4/8/77

digital — DRN. Loomby — CNT4EE.DRW[4,6147] 14-FEB-77 09:29 — FIRST USED ON OPTION/MODEL: KL10

DATE 14-FEB-77 — ENG. Wisecht — DATE 23FEB77 — BOARD LOCATIONS: — SHEET 1 OF 1 — NEXT HIGHER ASSEMBLY: B-DD-M8553-0

TITLE: DTE20 CONTROL LOGIC

SIZE	CODE	NUMBER	REV.
D	CS	M8553-0-CNT4	E



DTE SLOT LOCATIONS

TYPE	N=	SLOT
SINGLE	1	2AF04
MULTIPLE	1	2AF02
	2	2AF04
	3	2AF07
	4	2AF09

5 OF 9

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REVISIONS		
CHK	CHANGE NO.	REV

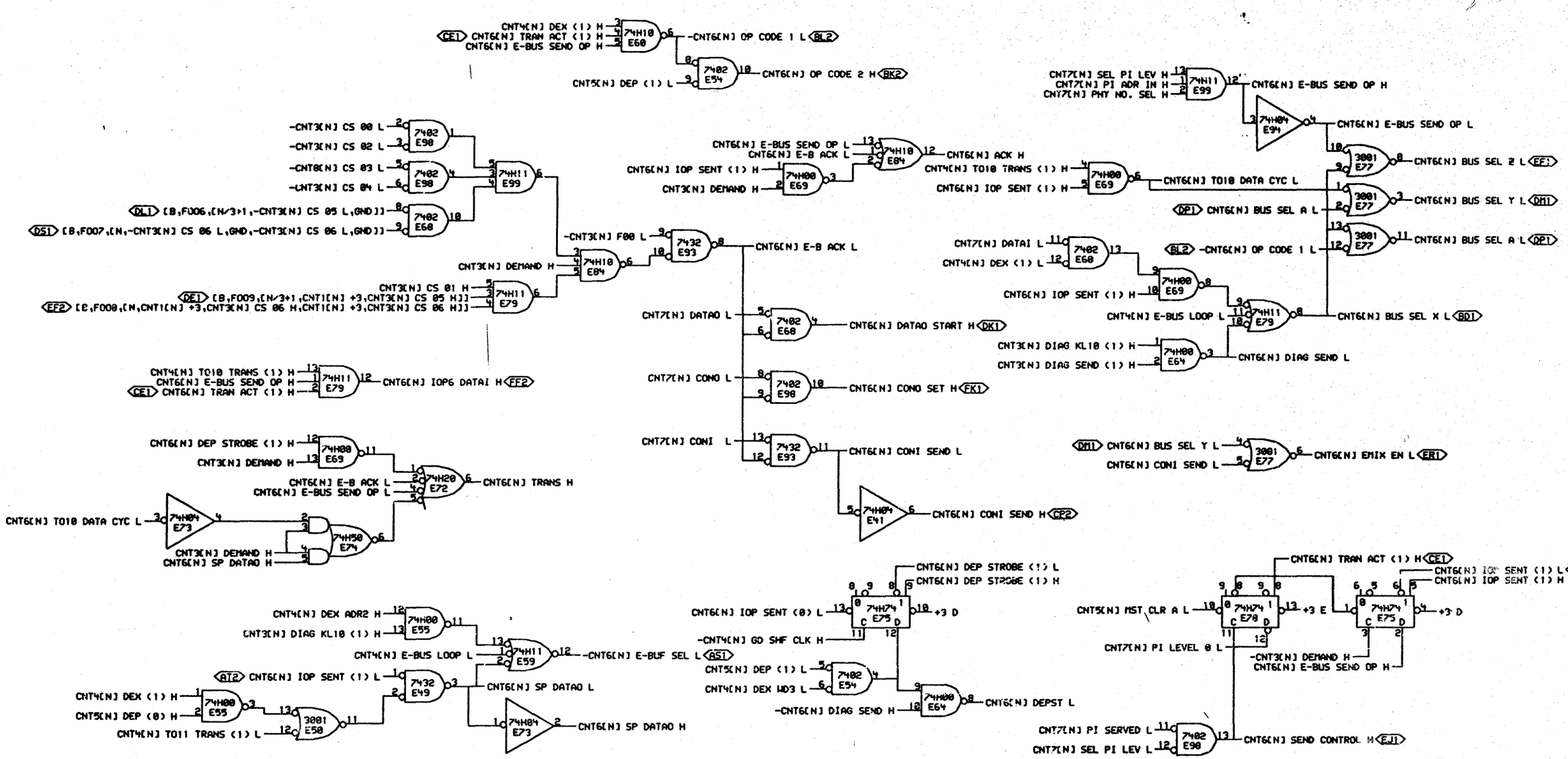
M8553-0000 3 C
W. BRUCKERT

digital

DRN: J. Looney
CHK: W. Stephenson
DATE 10-FEB-77
ENG: W. Bruckert
DATE 23FEB77
DATE 3/11/77
BOARD LOCATION:
SHEET 1 OF 1
CNT5EE.DRW[4,614] 09-FEB-77 13:40
NEXT HIGHER ASSEMBLY: B-DD-M8553-0
FIPST USED ON OPTION/MODEL: KL10

TITLE: DTE20 CONTROL LOGIC

SIZE	CODE	NUMBER	REV.
D	CS	M8553-0-CNT5	C



DTE SLOT LOCATIONS

TYPE	№	SLOT
SINGLE	1	2AF04
MULTIPLE	1	2AF02
	2	2AF04
	3	2AF07
	4	2AF09

6 OF 9

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REVISIONS		
CHK	CHANGE NO.	REV
	M8553-0-0008	C

digital

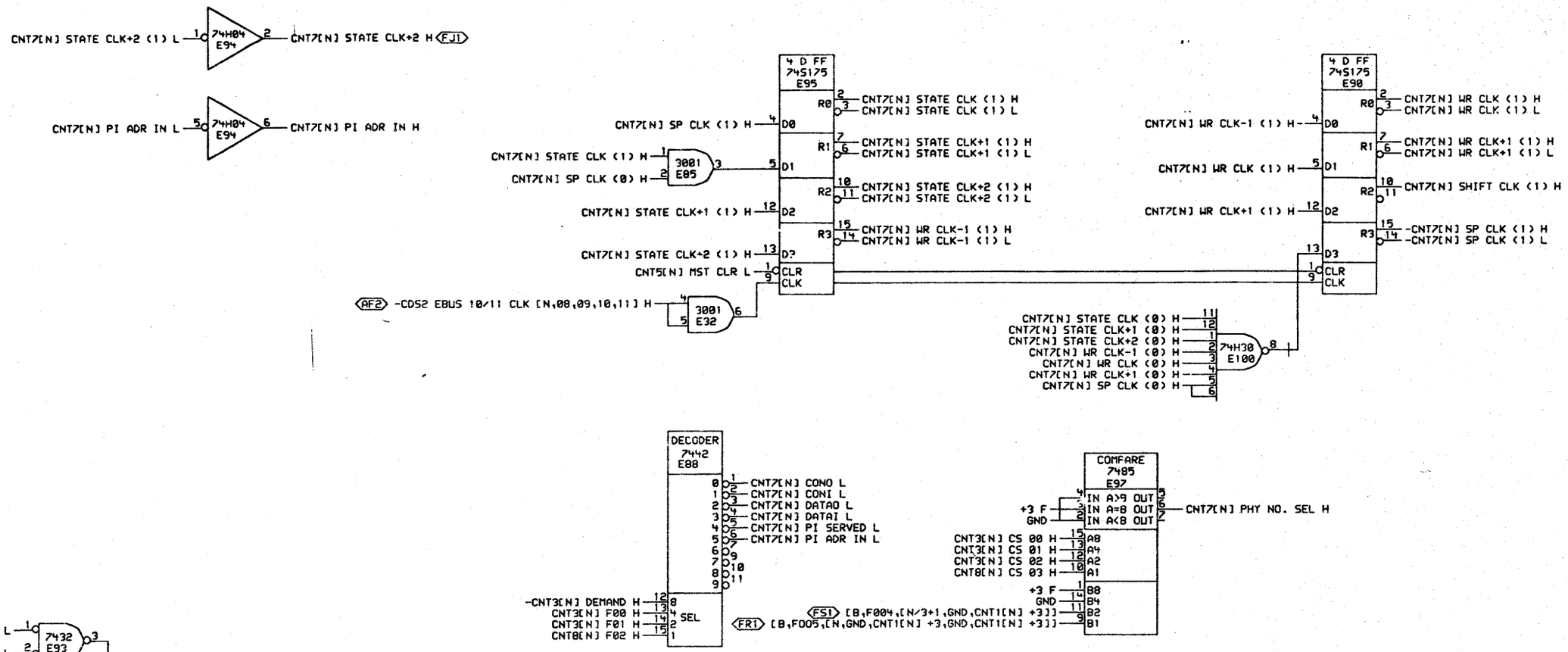
CNT6EE.DRW 4,614 09-FEB-77 13:41

FIRST USED ON OPTION/MODEL: KL10

DRN. T. Toomey
CHK. W. Stephens
DATE 10-FEB-77
ENG. W. Brucker
DATE 23-FEB-77
BOARD LOCATION:
SHEET 1 OF 1
NEXT HIGHER ASSEMBLY: B-DD-M8553-0

TITLE: DTE20 CONTROL LOGIC

SIZE	CODE	NUMBER	REV.
D	CS	M8553-0-CNT6	C



DTE SLOT LOCATIONS

TYPE	N=	SLOT
SINGLE	1	2AF04
MULTIPLE	1	2AF02
	2	2AF04
	3	2AF07
	4	2AF09

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REVISIONS		
CHK	CHANGE NO.	REV

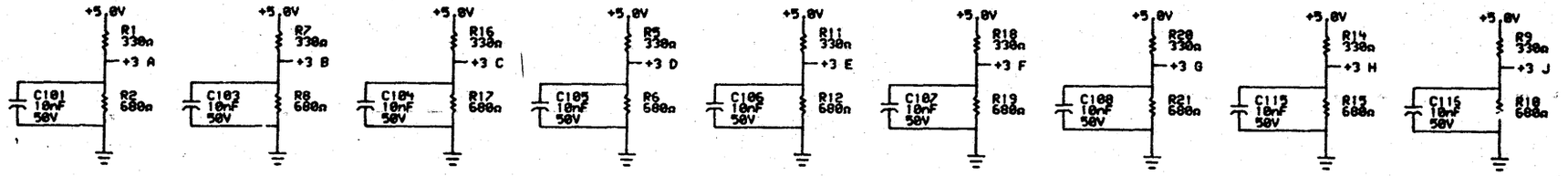
digital

DRN. S. Toomey 27-NOV-84
CHK D. J. Devaris 3-DEC-84
ENG. 15-MAR-85
BOARD LOCATION:
SHEET 1 OF 1
PS:<DAME>CNT7EE.DRW 27-NOV-84 10:03
FIRST USED ON OPTION/MODEL: KL10
NEXT HIGHER ASSEMBLY: B-DD-M8553-0

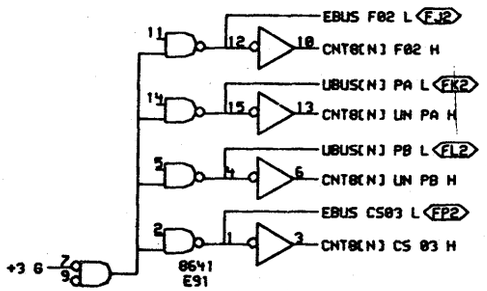
TITLE: DTE20 CONTROL LOGIC

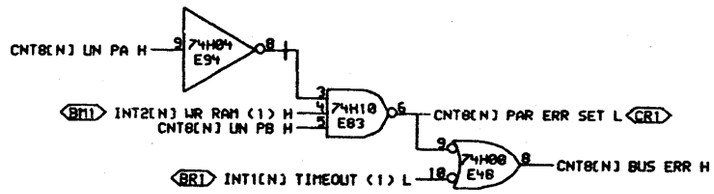
SIZE	CODE	NUMBER	REV.
D	CS	M8553-0-CNT7	C

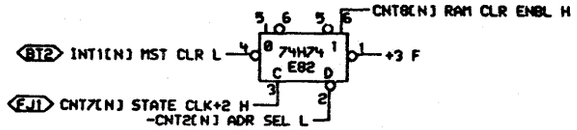
MRO



[B,+3 B,SPARE PAR ERR] — CL1







DTE SLOT LOCATIONS

TYPE	N=	SLOT
SINGLE	1	2AF04
MULTIPLE	1	2AF02
	2	2AF04
	3	2AF07
	4	2AF09

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REVISIONS		
CHK	CHANGE NO.	REV

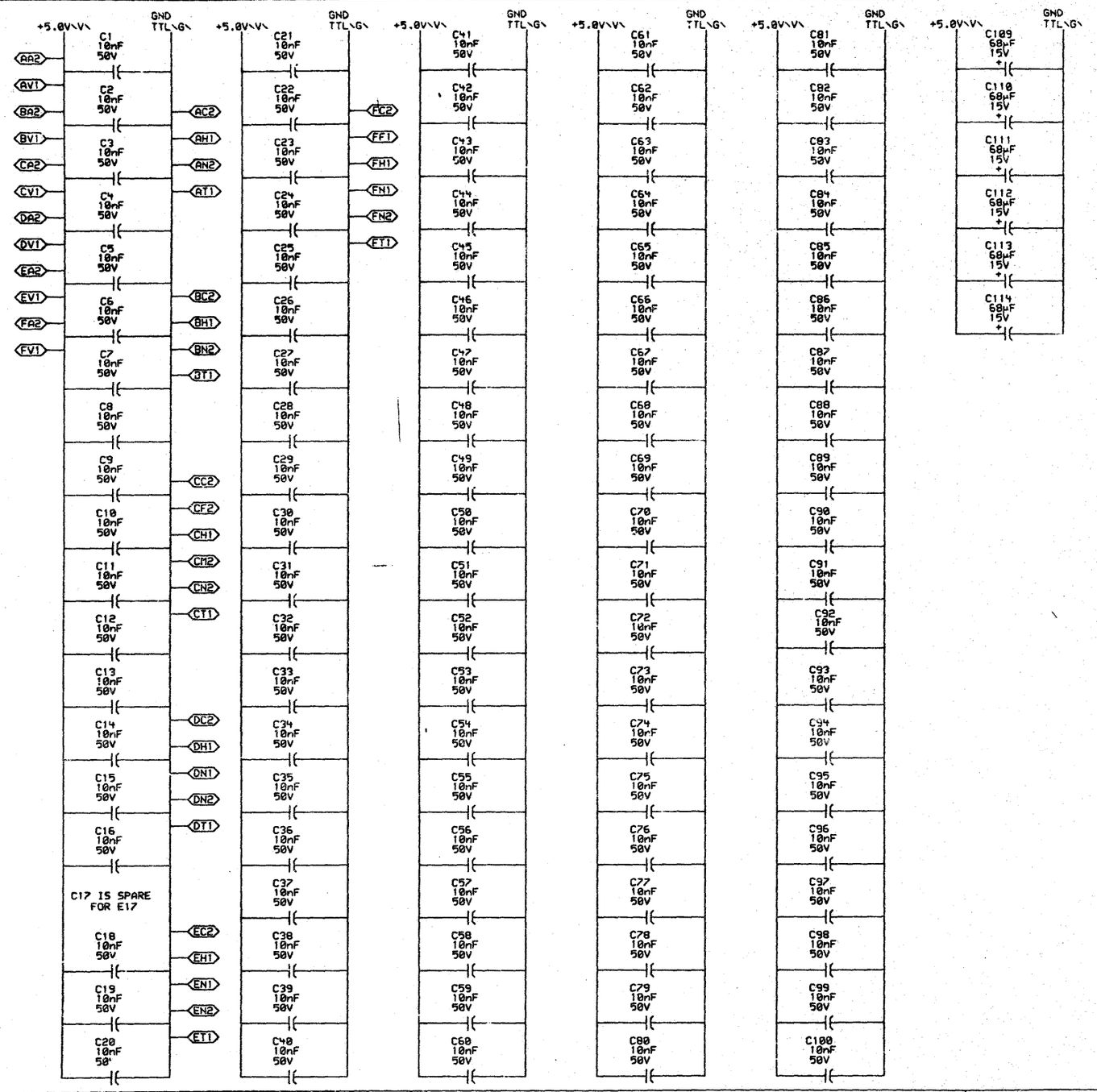
M8553-00009 D
P.M. Hallett 4/4/77
W. BRUCKERT
Carl Allen June 12 APR 77

digital
CNT8EE.DRW[4,614] 09-FEB-77 13:41
FIRST USED ON OPTION/MODEL: KL10

DRN. S. Looney DATE 10-FEB-77
CHK P. Holmes DATE 2/4/77
ENG. W. Bruckert DATE 23 FEB 77
BOARD LOCATION:
SHEET 1 OF 1
NEXT HIGHER ASSEMBLY: B-DD-M8553-0

TITLE: DTE20 CONTROL LOGIC

SIZE	CODE	NUMBER	REV.
D	CS	M8553-0-CNT8	D



DTE SLOT LOCATIONS

TYPE	N=	SLOT
SINGLE	1	2AF04
MULTIPLE	1	2AF02
	2	2AF04
	3	2AF07
	4	2AF09

9 OF 9

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REVISIONS

CHK	CHANGE NO.	REV

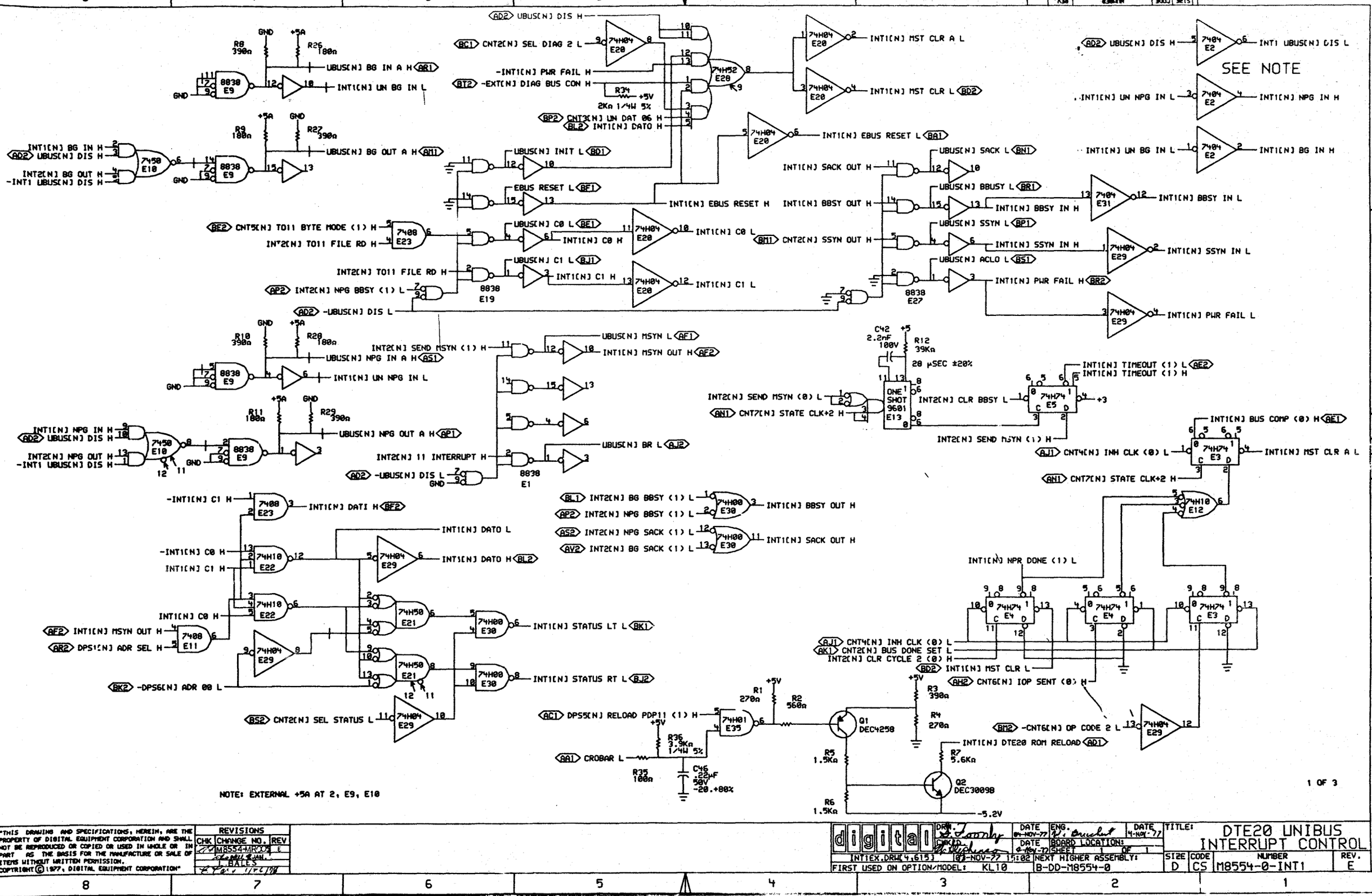
digital

DRN. D. Toomey DATE 27-NOV-84
CHK'D D. Stevens DATE 3-Dec-84
ENG. [illegible] DATE 15 DEC 84
BOARD LOCATION:
SHEET 1 OF 1
PS:<DAME>CNT9EE.DRW 27-NOV-84 10:09
NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KL10
B-DD-M8553-0

TITLE: DTE20 CNTRL LOGIC PWR, CAP, AND GND

SIZE	CODE	NUMBER	REV.
D	CS	M8553-0-CNT9	D

MRC



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REVISIONS		
CHK	CHANGE NO.	REV
	M8554-MR003	E

BALES

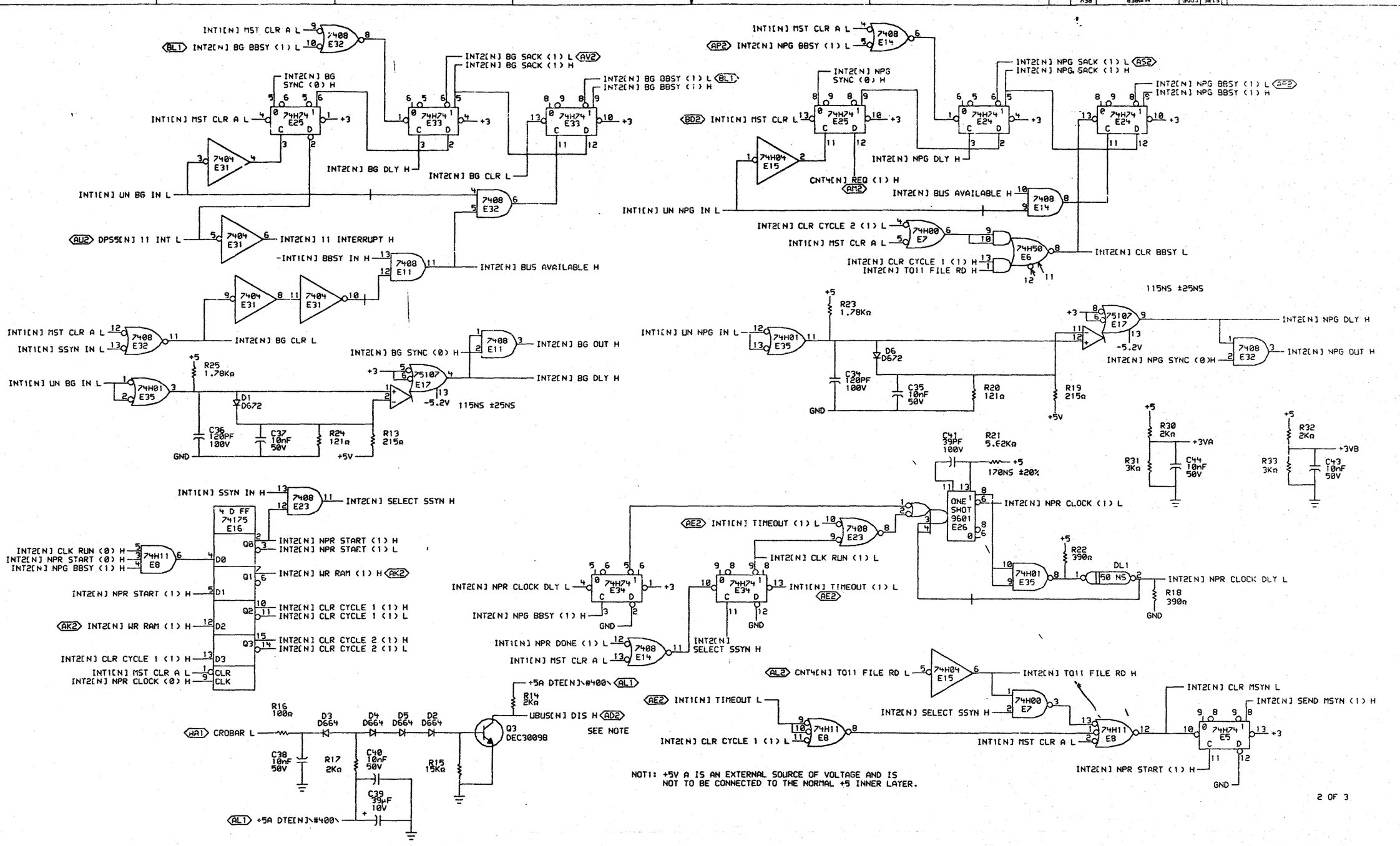
digital

INT1EX.DRW[4,6153] 07-NOV-77 15:02
FIRST USED ON OPTION/MODEL: KL10

DRN. Landry
CHKD. [illegible]
DATE 04-NOV-77
ENG. W. Bruckert
DATE 4-NOV-77
DATE 2-NOV-77
BOARD LOCATION:
SHEET 1 OF 1
NEXT HIGHER ASSEMBLY: B-DD-M8554-0

TITLE: DTE20 UNIBUS INTERRUPT CONTROL

SIZE	CODE	NUMBER	REV.
D	CS	M8554-0-INT1	E



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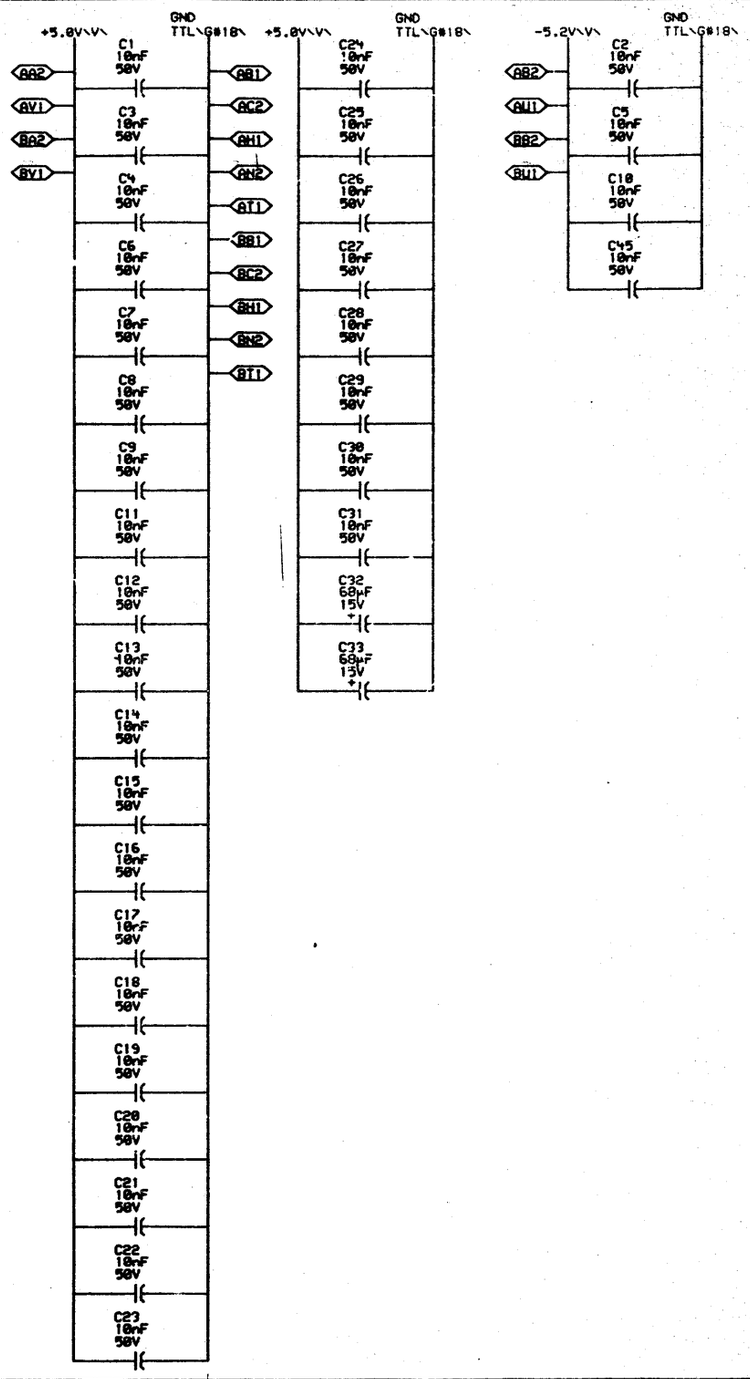
REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. D.Toomey 11-SEP-84
CHK'D. E.Simms 11-SEP-84
ENG. 11-SEP-84
BOARD LOCATION:
SHEET 1 OF 1
PS:<BOWEN>INT2EX.DRW 11-SEP-84 14:16
FIRST USED ON OPTION/MODEL: KL10
NEXT HIGHER ASSEMBLY: B-DD-M8554-0

TITLE: UNIBUS INTERRUPT CONTROL

SIZE	CODE	NUMBER	REV.
D	CS	M8554-0-INT2	D



3 OF 3

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REVISIONS		
CHK	CHANGE NO.	REV
L.BALES	MASS-MROOS	C

digital

DRN. T.Toomey — DATE 31-OCT-77
CHK'D. — DATE
ENG. — DATE 4-NOV-77
BOARD LOCATION:
SHEET 1 OF 1

INT3EX.DRW[4,615] 31-OCT-77 11:39
FIRST USED ON OPTION/MODEL: KL10
NEXT HIGHER ASSEMBLY: B-DD-M8554-0

TITLE: UNIBUS INTERRUPT POWER AND GROUND

SIZE	CODE	NUMBER	REV.
D	CS	M8554-0-INT3	C

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FIELD MAINTENANCE PRINT SET

TABLE OF CONTENTS

K-TC-DL11-0-6	FIELD MAINTENANCE PRINT SET
K-DD-DL11-0	DL11 DRAWING DIRECTORY
K-PL-DL11-0-0	DL11 OPTION
E-CS-M7800-0-1	ASYNCHRONOUS LINE INTERFACE
K-PL-M7800-0-DBP	ASYNCHRONOUS LINE INTERFACE
B-DD-M7856-0	SLU/RTC MODULE
D-UA-M7856-0-0	SLU/RTC OPTION
K-PL-M7856-0-0	SLU/RTC OPTION
D-CS-M7856-01	SLU/RTC OPTION

UNIT VARIATIONS COVERED BY THIS PRINT SET

- DL11-M
- DL11-N

DL11-M, DL11-N

FIELD MAINTENANCE PRINT SET

DIGITAL EQUIPMENT CORPORATION

PRINT SET ORDER NO.

MP00968-01 REV A1

REVISION HISTORY

REV	ECO NUMBER	DATE
A	INITIAL	28 NOV 83

CONT. REVISION HISTORY

REV	ECO NUMBER	DATE

MADE BY: R. ROBICHAUD
DATE: 28 NOV 83

CHECKED BY: J. FALKOWSKI
DATE: 1 DEC 83 J. Falkowski

PROJECT ENGR: R. BERGERON
DATE: 9-Dec 83 R. Bergeron

RSPBLE ENGR: M. LAWRENCE
DATE: 9-Dec 83 M. Lawrence

FIELD SERV.: S. CRANSTON
DATE: 7 DEC 83 S. Cranston FE

d i s t r i b u t i o n

TITLE: FIELD MAINTENANCE PRINT SET

DL11

SIZE	CODE	DOCUMENT NUMBER	REV.
K	TC	DL11-0-6	A

SHEET 1 OF 1 MK

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DRAWING DIRECTORY

FOR FIELD MAINTENANCE PRINT SET REFER TO K-TC-DL11-0-6

UNIT VARIATIONS

VARIATION	TITLE
DL11-M	M7800 RS232 FULL MODEM CONTROL, EIA, ASYNC
DL11-N	M7856 RS232/20 MA LIMITED MODEM CONTROL
DL11-AP	SYSTEM INTEGRATED DL11-M
DL11-DP	SYSTEM INTEGRATED DL11-N RS232
DL11-HP	SYSTEM INTEGRATED DL11-N 20 MA

REVISION HISTORY

ENG	ECO NUMBER	REV
ML	DL11-MK011	M

USED ON OPTION/MODEL: DL11

RESPONSIBLE ENGR. : M. LAWRENCE
DATE : 9-Dec-83 R Bergeron

MADE BY : R. ROBICHAUD
DATE : 28 NOV 83

CHECKED BY : J. FALKOWSKI
DATE : 9 DEC 83 John Falkowski

DESIGN ENGINEER : R. BERGERON
DATE : 9-Dec 83 R. Bergeron

PRODUCTION ENGR. : RADAMES GARCIA
DATE : 9-Dec-83 Radames Garcia

d i g i t a l

TITLE: DRAWING DIRECTORY

DL11

SIZE	CODE	DOCUMENT NUMBER	REV.
K	DD	DL11-0	M

SHEET 1 OF 2 MK

FIND #	DRAWING NUMBER	DESCRIPTION	TYPE
1	MP00968-01	F.M.P.S. DL11 (MP)	-
	K-TC-DL11-0-6	F.M.P.S. DL11 (TC)	-
	K-PL-DL11-0-0	DL11 OPTION	E/M
	K-AR-CKCKREF-0-0	FLEXIBLE OPTION PLAN	-
2	E-CS-M7800-0-1	ASYNCHRONOUS LINE INTERFACE	E/M
	K-PL-M7800-0-DBP	ASYNCHRONOUS LINE INTERFACE	E/M
	K-CO-M7800-0-4	X-Y COORDINATE HOLE LAYOUT	-
	D-AH-M7800-0-5	ASSY DRILLING/HOLE LOCATION	E/M
	B-MH-M7800-0-6	MODULE ECO HISTORY	-
	B-SP-M7800-0-7	LA-2335 TEST PROCEDURE	-
	A-SP-M7800-0-8	M7800 MODULE TEST PROCEDURE	-
3	B-DD-M7856-0	SLU/RTC MDULE	-
4	K-DD-CKDL11-0	CKDL11 DRAWING DIRECTORY	-
5	K-PL-7020866-0-0	SHIPPING LIST DL11	-

FIND #	DRAWING NUMBER	DESCRIPTION	TYPE

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

d	i	s	i	t	a	l

TITLE: DRAWING DIRECTORY
DL11

SIZE	CODE	DOCUMENT NUMBER	REV.
K	DD	DL11-0	M

SHEET 2 OF 2 MK

AUTOMATED BY PRTLST,40(50) P A R T S L I S T SHEET A1 OF A1

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION M	N	AP	DP	HP
					VARIATION REVISION LEVEL:					
1	1	E-CS-M7800-0-1	M7800-00		ASYNCHRONOUS LINE INTERFACE	1	-	1	-	-
2	2	D-UA-M7856-0-0	M7856-00		DL11-W SLU/RTC OPT QUAD	-	1	-	1	1
3	3		1318784-00		R NETWORK MULTI-VALUE 16PIN	1	1	1	1	1
4	4	K-PL-CKDL11-0-0	CKDL11 -00		CABKIT REF TO K-AR-CKCKREF-0-0	-	-	1	1	1
5	5	K-PL-7020866-0-0	7020866-01		SHIPPING LIST DL11-M	A/R	-	-	-	-
6	6	K-PL-7020866-0-0	7020866-02		SHIPPING LIST DL11-N	-	A/R	-	-	-

7 NOTE: CKDL11-00 IS A REFERENCE VARIANT ONLY,SEE K-AR-CKCKREF-0-0 FOR EXACT APPLICATION.

REVISION HISTORY			BASIC PART NO: DL11				
ENG	ECO NUMBER	REV	SECTION A OF A				
*L	DL11-MK011	J	SECTION,VARIATION INDEX [A]M ,N ,AP,DP,HP	DRN: R,ROBICHAUD	DATE: 21-NOV-83	DIGITAL	
				CHK'D: J.FALKOWSKI	DATE: 21-NOV-83	TITLE: DL11 OPTION PARTS LIST	
			[B]	DES.ENG: R.BERGERON	DATE: 21-NOV-83	DOCUMENT NUMBER: SIZE K, CODE PL, NUMBER DL11-0-0, REV J	
			[C]	RESP.ENG.: M.LAWRENCE	DATE: 21-NOV-83		
			[D]	MFG.ENG.: RADAMES GARCIA	DATE: 21-NOV-83	RELEASE DATE:	
			[E]	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER: K-DD-DL11-0	FILE NAME: MK0939.PLS	EDIT # 7
			[F]				

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NOTES:

1.) PIN NOTATION THROUGHOUT IS ORDERED UPON MODULE PLACEMENT IN THE SYSTEM UNIT. MODULE REFERENCE ALONE IS OBTAINED BY CONVERTING THE FIRST LETTER ACCORDING TO THE PIN NOMENCLATURE CHART AT THE LEFT.

2.) JUMPERS TO BE USED AT CONNECTIONS A3-A10, J1-J10, V3-V8, AND N1.

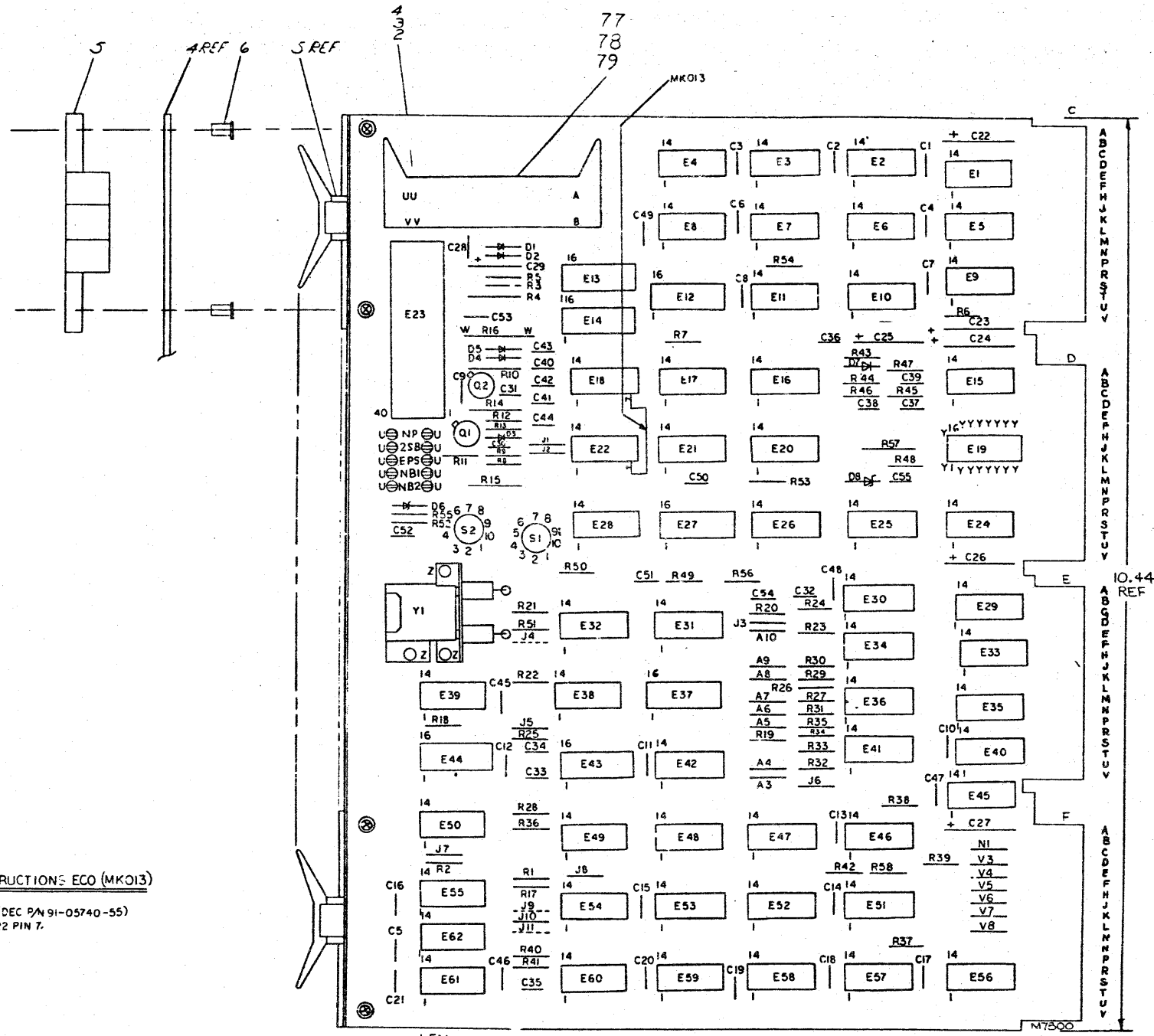
3.) LETTERS ENCLOSED IN PARENTHESIS REFER TO PINS ON THE BERG CONNECTOR. EXAMPLE: (X).

PIN NOMENCLATURE

MODULE	SYSTEM UNIT
A	C
B	D
C	E
D	F

4. DEC 8643S WERE PHASED IN AS DEC 380 REPLACEMENTS ANY 380 FAILURES SHOULD BE REPLACED BY 8640'S EXCEPT E28. E28 MUST BE REPLACED WITH A 7380.

5. FOR YC VERSION, C36 VALUE IS 1200PF.



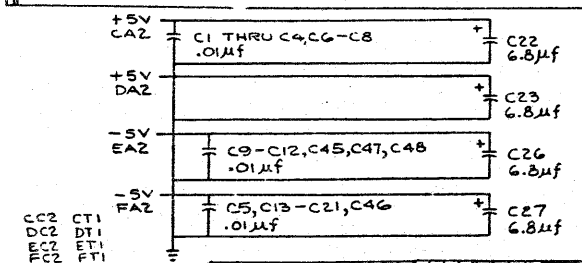
REWORK INSTRUCTIONS ECO (MK013)

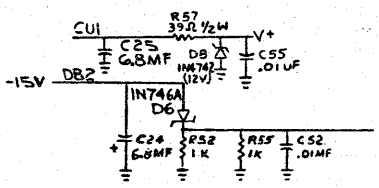
WIRE ADD:
ADD 30 GAUGE WIRE (DEC P/N 91-05740-55)
FROM E18 PIN 7 TO E22 PIN 7.

IC TYPE	GND	+5V	+V	-12V
DEC 74161	8	16	—	—
DEC 1488	7	—	14	1
DEC UART	3	1	—	2
DEC 74175	8	16	—	—
DEC 8271	8	16	—	—
DEC 7442	8	16	—	—
DEC 314	1	8	—	—
DEC 7493	10	5	—	—
DEC 7492	10	5	—	—
DEC 74153	8	16	—	—
DEC 8640	1	8	—	—
DEC 7490	10	5	—	—
DEC 74123	8	16	—	—

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

IC PIN LOCATIONS





QTY	QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
			PARTS LIST		
			ETCH BOARD REV H		
YC	1	E28	IC DEC 7380	1910390	80
1	1		LATCH RIGHT	1209941-04	79
1	1		LATCH LEFT	1209941-03	78
1	1		CONNECTOR BERG	1209941-02	77
1	1		INSULATED JUMPER	9009185	76
1	0	C36	CAP 1200 PF, 100V, 5%	1002424	75
S/O	A/R		WIRE #22 SOLID BUS	9107560-01	74
1	1	R57	RES 39, 1/2W, 5%	1302338	73
1	1	D8	DIODE, 4742, 12V, 10%, 1W, ZENER	1109502	72
3	3		INT. WASHER #2	9006631	71
1	1	E27	IC DEC 74161	1910650	70
3	3		NUT, HEX #2	9006555	69
3	3		SCR PHL PAN HD #2-56X1/4LG	9006001-168	68
2	2		AUGAT 8000 PG-1	1202812	67
6	6	D1-D5, D7	DIODE D664 20V 100MA	1100114	66
1	1	D6	DIODE IN746A	1104860	65
2	2	Q1, Q2	TRANSISTOR GS34D	1803409-00	64
1	1	C53	CAP 100PF 100V 5% DIPPED MICA	1000016	63
1	1	C54	CAP 560PF 100V 5% DIPPED MICA	1000025	62
2	2	C50, C51	CAP .047MF CERAMIC	1009678	61
0	1	C32	CAP 220 PF 100V 5% DIPPED MICA	1000021	60
2	2	C34, C35	CAP 330PF 100V 5% DIPPED MICA	1000023	59
9	9	C32, C37-C44	CAP 470 PF 100V 5% DIPPED MICA	1000024	58
1	1	C31	CAP 1000 PF 100V 5% DIPPED MICA	1000092	57
30	30	C1-21, 28, 30, 45-49, 52, 55	CAP .01UF 100V 20% CERAMIC DISC	100410-01	56
1	1	C29	CAP .47UF 35V 10% TANT	1005965	55
6	6	C22-C27	CAP 6.8 UF 35V 10% TANT	1005306	54
1	1	C33	CAP 150 PF 100V 5% DIPPED MICA	1000019	53
2	2	R14, R15	RES 1.5K 1/2W 5%	1300396	52
6	6	R23, R26, R40, R48, R52, R55	RES 1K 1/4W 5%	1303365	51
1	1	R51	RES 47Ω 1/4W 5%	1300202	50
1	1	R10	RES 68Ω 1/2W 5%	1309405	49
1	1	R3	RES 82Ω 1/4W 5%	1301677	48
4	4	R24, R45, R46, R47	RES 100Ω 1/4W 5%	1300329	47
1	1	R11	RES 130Ω 1/4W 5%	1300230	46
2	2	R42, R58	RES 180Ω 1/4W 5%	1301322	45
2	2	R44, R53	RES 220Ω 1/4W 5%	1300271	44
1	1	R38	RES 390Ω 1/4W 5%	1300309	43
4	4	R9, R13, R43, R51	RES 470Ω 1/4W 5%	1300316	42
1	1	R8	RES 560Ω 1/2W 5%	1300338	41
1	1	R3	RES 750Ω 1/2W	1304901	40
1	1	R16	RES 750Ω 1% 1W 5%	1302383	39
27	27	R1, R2, R6, R7, R17-R22, R25, R27-R37, R39, R49, R50, R54, R56	RES 10K 1/4W 5%	1300479	38
2	2	R5, R12	RES 1.5K 1/4W 5%	1300351	37
1	1	E23	IC DEC UART	1910439	36
4	4	E32, E33, E61, E62	IC DEC 7404	1903347	35
3	3	E15, E36, E41	IC DEC 8242	1909712	34
3	3	E31, E49, E59	IC DEC 7408	1901135	33
2	2	E18, E21	IC MC 1459	1910329	32
2	2	E20, E26	IC DEC 7490	1909037	31
11	11	E1, E2, E3, E7-E9, E11, E30, E47, E51, E56	IC DEC 8881	1PC7705	30
1	1	E22	IC MC 1488	1910322	29
1	1	E43	IC DEC 74123	1910436	28
3	3	E16, E37, E42	IC DEC 74138	1909643	27
3	3	E12, E34, E58	IC DEC 7400	1903775	26
1	1	E10	IC DEC 7413	1909867	25
2	2	E50, E53	IC DEC 7402	1909004	24
7	7	E3, E4, E38, E35, E40, E45, E46	IC DEC 8640	1911469	23
1	1	E12	IC DEC 74153	1909332	22
1	1	E60	IC DEC 74H04	1909937	21
1	1	E25	IC DEC 7492	1909033	20
5	5	E6, E16, E17, E39, E39	IC DEC 7404	1909696	19
1	1	E24	IC DEC 7493	1909034	18
1	1	E34	IC DEC 7410	1903576	17
1	1	E29	IC DEC 314	1909704	16
1	1	E37	IC DEC 7442	1910042	15
1	1	E44	IC DEC 8271	1909613	14
2	2	E13, E14	IC DEC 74175	1906431	13
1	1		BRACKET, CRYSTAL HOLDER	3302825	12
1	1		BRACKET, CRYSTAL HOLDER	3303154	11
1	1	E19	IC SOCKET	1203838	10
2	2	S1, S2	SWITCH, SINGLE POLE, 10 POS	12100421	9
			NO NEW CONNECTOR BERG	1209941	8
10	10		SPLIT LUGS	9006735	7
8	8		EYELET #GS3-7 E.B. STIMPSON	9006732	6
4	4		HANDLE, FLIP-OVER, MAGENTA	9008337-06	5
1	1		ETCHED CIRCUIT BOARD	3009974	4
REF	REF		MODULE ECO HISTORY	6-MK-8750-0-A	3
REF	REF		ASSY/DRILLING HOLE LAYOUT	0-AN-M0013	2
REF	REF		X-Y COORDINATE HOLE	X-CC-M7800-0-A	1

DEC NO.	EIA NO.	DEC NO.	EIA NO.
		GS34D	MPS6534
		IN746A	114M33A2
		D664	IN3606

SEMICONDUCTOR CONVERSION CHART

DRN M. Silva DATE 2/8/74
CHK'D J. Ingram DATE 2/8/74
ENG J. McCarthy DATE 2/8/74
PROJ'D M. Silva DATE 4-22-74
APP'D [illegible] DATE 4-22-74
NEXT HIGHER ASSY
SCALE

digital EQUIPMENT CORPORATION

TITLE: ASYNCHRONOUS LINE INTERFACE

SIZE	CODE	NUMBER	REV.
E	CS	M7800-0-1	R

CS/M7800-0-1

1 of 7

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DL-2 BINIT H
DL1 BUS INIT L
DL-2 AINIT L

DL-2 BD07 H
DL-2 BD06 H
DL-2 BD05 H
DL-2 BD04 H
DL-2 BD03 H
DL-2 BD02 H
DL-2 BD01 H
DL-2 BD00 H

DL-4 RD7 H
DL-4 RD6 H
DL-4 RD5 H
DL-4 RD4 H
DL-4 RD3 H
DL-4 RD2 H
DL-4 RD1 H
DL-4 RD0 H
DL-5 RBUF TO BUS H

DL-4 XMIT READY H
DL-4 XMIT INT ENB (1)H
DL-4 MAINT (1)H
DL-4 BREAK (1)H
DL-5 XCSR TO BUS H

DL-4 RCVR DONE H
DL-4 RCVR INT ENB (1)H
DL-4 DATASET INT ENB (1)H
DL-4 SEC XMIT (1)H CK1
DL-4 REQ TO SEND (1)H CM1
DL-4 DATA TERMINAL READY (1)H CF1

CM2 BUS D07 L
CV2 BUS D06 L
CP2 BUS D05 L
CN2 BUS D04 L
CT2 BUS D03 L
CU2 BUS D02 L
CR2 BUS D01 L
CS2 BUS D00 L

+5V R1 10K
J6
DL-5 RBUF TO BUS L

J7 +5V R2 10K
DL-5 RCSR TO BUS L

DL-4 OR ERR H
DL-4 FR ERR H
DL-4 P ERR H

ERROR H

DL-7 DATASET INT (1)H
DL-7 RING H
DL-7 CLEAR TO SEND H
DL-7 CARRIER H
DL-5 RCSR TO BUS H
DL-4 RCVR BUSY (1)H
DL-7 SEC REC DATA H

CD2 BUS D15 L
CE2 BUS D14 L
CF2 BUS D13 L
CH2 BUS D12 L
CH1 BUS D11 L
CJ2 BUS D10 L

REVISIONS		
CHK.	CHANGE NO.	REV.

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
DL11		PARTS LIST		

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES
DECIMALS: .XXX = .005, .XX = .02, .X = .1
ANGLES: ±0° 30'
REMOVE BURRS AND BREAK SHARP CORNERS. SURFACE QUALITY ✓
MATERIAL
FINISH

DRN. B. Pinder	DATE 3-20-72	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS
CHK'D. J. Bingman	DATE 3-22	
ENG. Gary Conlon	DATE 4/27/72	TITLE ASYNCHRONOUS LINE INTERFACE (BUS RECEIVERS & DRIVERS) DL-2
ENG'RING. Jim Johnson	DATE 4-27-72	
PROJ. L. Mathews	DATE 4-27-72	
NEXT HIGHER ASSY.		
SCALE	SIZE D	CODE CS
SHEET 2 OF 7	NUMBER M7800-0-1	REV. R
	DIST.	

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SEE NOTE 3

		110 BAUD		300 BAUD		1200 BAUD		4800 BAUD	
		BIAS	USEC	BIAS	USEC	BIAS	USEC	BIAS	USEC
SWITCH POS.	1	36.7	1700	44.8	1342	50	1250	200	312
	2	82	1135	67.3	928	75	833	300	208
	3	110	567	134.6	463	150	417	600	104
	4	220	284	269	232	300	208	1200	52
	5	440	142	538	116	600	104	2400	26
	6	880	71	1076	58	1200	52	4800	13
	7	1320	47.4	1614	38.7	1800	34.6	7200	8.7
	8	1760	35.5	2152	29	2400	26	9600	6.5
	9	AERO CLOCK INPUT COMMON TO RCVR AND XMIT							
	10	EXTERNAL CLOCK INPUT-RCVR; DSI; XMIT; DRI							

PRIORITY PLUG E19

DL-3 BG IN H	DU2	01	02
DL-3 BG OUT H	DV2	03	04
BUS BG4 OUT H	DT2	05	06
BUS BG4 IN H	DS2	07	08
BUS BG5 OUT H	DR2	09	10
BUS BG5 IN H	DP2	11	12
BUS BG6 OUT H	DN2	13	14
		15	DO2 BUS BR7
		16	DE2 BUS BR6
		17	DF2 BUS BR5
		18	DH2 BUS BR4
		19	DJ2 DL-6 REQUEST L
		20	DK2 BUS BG7 IN H
		21	DL2 BUS BG7 OUT H
		22	DM2 BUS BG4 IN H

DR1 EXT XMIT INPUT

DL-3 XMIT CLK H

(CC) BERG CLOCK INPUT

DSI EXT RCVR INPUT

DL-3 RCVR CLK H

DB1 TTL RDR ENB L

DL-4 RDR ENB (1)H

READER RELAY

(PP)

-15V

(EE)

(SS)

DC1 TTL SERIAL OUT L

(AA)

20 MA TRANSMIT

(KK)

+5 (TT)

(A)

(B)

(VV)

(UU)

BERG CLOCK INPUT(CC)

BERG SERIAL IN L (E)

TTL SERIAL IN L

DL-4 MAINT (1)H

BERG CLK ENB L(HH)

DL-4 SERIAL OUT H

FR1 DL-3 RCLK H

FS1 DL-3 SI H

20 MA RECEIVE

(H) TO FERC INTERLOCK

NOTES:
1. LETTERS ENCLOSED IN PARENTHESIS REFER TO PINS ON THE BERG CONNECTOR. EXAMPLE: (X)
2. NUMBERS WITHIN TRIANGLES REFER TO PINS ON THE FEMALE MATE-N-LOCK CONNECTOR WHEN USING THE 7008360 CABLE. THIS CABLE ALSO CONNECTS BERG PINS H TO E.
3. ALTHOUGH THE ABOVE TABLE INCLUDES ONLY THE STANDARD DL11 CRYSTALS OTHER VALUES MAY BE SPECIFIED BY THE CUSTOMER OR BY OTHER DOCUMENTATION OF AN OPTION WHICH USES THE DL11.
4. C29 AND C31 ARE REQUIRED ONLY FOR 20MA. OPERATION AT 150BAUD OR LESS, DL11-A OR C.

REVISIONS

CHK	CHANGE NO.	REV

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
DL11		PARTS LIST		

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES
DECIMALS: .XXX = .005, .XX = .02, .X = .1; ANGLES: ±0° 30'
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓
MATERIAL
FINISH

DRN. E. Pardi DATE 5-27-75
CHK'D. K. F. Eigner DATE 6-5-75
ENG. Barry Carlson DATE 6-27-75
PROJ. ENG. D. Jones DATE 6-27-75
PROD. J. Mata DATE 6-27-75
NEXT HIGHER ASSY.
SCALE
SHEET 3 OF 7

digital EQUIPMENT CORPORATION

TITLE ASYNCHRONOUS LINE INTERFACE (CLOCK & CURRENT LOOPS) DL-3

SIZE	CODE	NUMBER	REV.
D	CS	M7800-0-1	R

DIST.

MK

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DL-2 BINIT L

DL-5 SEL 2 L

UART E29

DL-2 BD07 H
DL-2 BD06 H
DL-2 BD05 H
DL-2 BD04 H
DL-2 BD03 H
DL-2 BD02 H
DL-2 BD01 H
DL-2 BD00 H
DL-5 LD XD L
X CLK H

CLR R DONE
STB STATUS
STB RD
R CLK
SERIAL IN
XD7
XD6
XD5
XD4
XD3
XD2
XD1
XD0
LD XD
X CLK

R DONE
OR ERR
FR ERR
P ERR
RD7
RD6
RD5
RD4
RD3
RD2
RD1
RD0
SERIAL OUT
XRDY
EOC

DL-4 OR ERR H
DL-4 FR ERR H
DL-4 P ERR H
DL-4 RD7 H
DL-4 RD6 H
DL-4 RD5 H
DL-4 RD4 H
DL-4 RD3 H
DL-4 RD2 H
DL-4 RD1 H
DL-4 RD0 H

CLR LDC NB2 NB1 NP EP 28B

NB2 NB1 NP EPS 28B

DL-4 RCVR BUSY (1)H
DL-2 BINIT H

DL-3 SI H
DL-3 RCLK H FRI

DL-4 SERIAL OUT H

DL-3 XMIT CLK H

DL-2 BD02 H
DL-2 BD00 H
DL-2 BD05 H
DL-2 BD04 H
DL-2 BD06 H
DL-2 BD03 H

DL-4 MA INT (1)H
DL-4 BREAK (0)H
DL-4 XMIT INT ENB (1)H
DL-5 BUG TO XCSR H

DL-4 BREAK (1)H
DL-4 XMIT READY H
DL-4 XMIT INT H
DL-4 RCVR DONE H
DL-4 RCVR INT H
DL-7 DATASET INT (1)H
DL-4 DATASET INT ENB (1)H
DL-4 REQ TO SEND (1)H
DL-4 REQ TO SEND (0)H
DL-4 RCVR INT ENB (1)H
DL-4 DATA LEADS ONLY L
DL-4 SEC XMIT (1)H
DL-4 SEC XMIT (0)H
DL-2 BD01 H
DL-4 DATA TERMINAL READY (1)
DL-4 DATA TERMINAL READY (0)H
DL-2 BD00 H
DL-4 RDR ENB (1)H
DL-5 BUS TO RCSR H

DL-4 SEC XMIT (1)H

REVISIONS		
CHK.	CHANGE NO.	REV.

FIRST USED ON OPTION/MODEL: DL11	QTY.	DESCRIPTION	PART NO. / ITEM NO.
		PARTS LIST	
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES: DECIMALS .XXX = .005 .XX = .02 .X = .1; ANGLES ±0° 30'	DRN. E. Pinder	DATE 3-20-72	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS
	CHK'D. G. Swanson	DATE 4-11-72	TITLE ASYNCHRONOUS LINE INTERFACE (UART & STATUS) DL-4
REMOV. BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓	ENG. Louis Cardon	DATE 4-17-72	
	PROJ. ENG. [illegible]	DATE 4-27-72	
MATERIAL	PROD. [illegible]	DATE 4-27-72	
	NEXT HIGHER ASSY.		SIZE D; CODE CS; NUMBER M7800-0-1; REV. R
FINISH	SCALE		
	SHEET 1 OF 7		DIST.

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BUS A11 L, BUS A13 L, BUS A14 L, BUS A15 L, BUS A16 L, BUS A17 L, BUS A12 L → 8640 E29 → BUS MSYN L → 8640 E33 → 7418 E34

+5V, R27 10K, R29 10K, R30 10K, R31 10K, R32 10K, R33 10K, R34 10K, R35 10K, R26 1K

A10, A9, A8, A7, A6, A5, A4, A3 → 8242 E36, 8242 E41

BUS A10 L, BUS A09 L, BUS A08 L, BUS A07 L, BUS A06 L, BUS A05 L, BUS A04 L, BUS A03 L, BUS A01 L, BUS A02 L, BUS A00 L, BUS C1 L, BUS C0 L → 8640 E40, E35, E45, E30, E33, E36

7418 E34 → 7442 E37 (D0–D8)

7484 E39 → EL2 REG SEL H

8881 E38, R23 1K, R24 1K, C32 470 pf → EL1 BUS SSYN L

R28 10K, +5V, R25 10K, C33 150 pf, 500 ns → 74123 E43 → EBL DL-5 LD XD L

DL-5 BUS TO XBUF L

7484 E39 → DL-5 BUS TO XCSR H

7484 E37 → DL-5 BUS TO RCSR H

7484 E38 → DL-5 XCSR TO BUS H

7484 E36 → DL-5 RBUF TO BUS H

7484 E40 → DL-5 RCSR TO BUS H

C34 330 pf, R36 10K, 1000 ns → 74123 E43 → DL-5 SEL 2 L

DL-5 RBUF TO BUS L

DL-5 BUS TO RBUF L

DL-5 RCSR TO BUS L

NOTE 1: THE 'A' LINES ARE TO BE JUMPERED FOR A 0.

REVISIONS		
Ltr.	CHANGE NO.	REV.

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
DL11		PARTS LIST		

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES: DECIMALS .XXX ± .005, .XX ± .02, .X ± .1; ANGLES ± 0° 30'. REMOVE BURRS AND BREAK SHARP CORNERS. SURFACE QUALITY ✓. MATERIAL —. FINISH —.

		DATE
DRN. B. Pinder		2-20-73
CHKD. J. Ferguson		4-5-73
ENG. Larry Cowden		4-6-73
PROJ. ENG. Joe Fenton		4-27-73
PROD. [illegible]		5-17-73

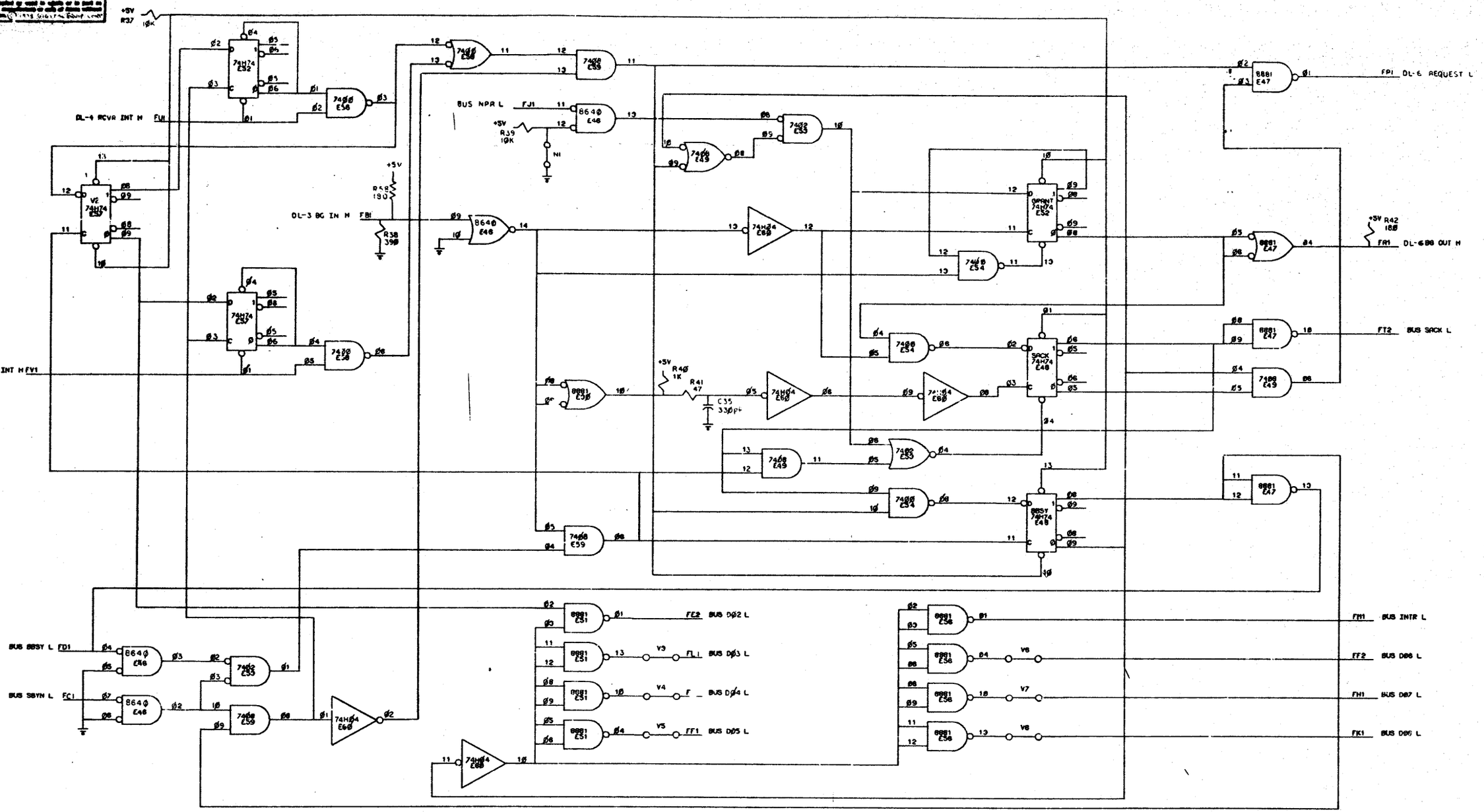
NEXT HIGHER ASSY. — SCALE — SHEET 3 OF 7

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

TITLE: ASYNCHRONOUS LINE INTERFACE (ADDRESS SELECTION) DL-5

SIZE	CODE	NUMBER	REV.
D	CS	M7800-0-1	R

DIST.



NOTE: THE 'V' LINES ARE TO BE JUMPERED FOR A 1.

REVISIONS		
CHK.	CHANGE NO.	REV.

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
DL11		PARTS LIST		

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES
DECIMALS .XXX = .005 .XX = .02 .X = .1 ANGLES ±0° 30'
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓
MATERIAL
FINISH

DRN. B Pinder 3-20-72
CH'K'D. J Ferguson 4-6-72
ENG. Tony Gordon 4/07/72
PROJ ENG. R E Timan 4-27-72
MOD. G Mastro 4-27-72
NEXT HIGHER ASSY.
SCALE
SHEET OF

digital EQUIPMENT CORPORATION

TITLE ASYNCHRONOUS LINE INTERFACE (INTERRUPT CONTROL) DL-6

SIZE	CODE	NUMBER	REV.
D	CS	M78ØØ-Ø-1	R

DIST.

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DL-4 SERIAL OUT H

DL-4 DATA TERMINAL READY (1)L

DL-4 SEC XMIT ' L

DL-4 DATA LEADS ONLY L

DL-4 REQ TO SEND (1)L

1488L E22

(F) EIA XMIT DATA [2]

(DD) EIA DATA TERMINAL READY [20]

(FF) EIA SEC XMIT DATA [11]

(V) EIA REQ TO SEND [4]

J1

J2

(C) EIA FORCE BUSY [25]

[22] EIA RING (X)

TTL RING DFI

1489L E18

C48 470pf

7404 E17

DL-7 RING H

R43 470

+5V

C38 220pf *

R44 220

D7 DD84

8242 E15

R48 1K

[8] EIA CARRIER (BB)

TTL CARRIER DEI

C41 470pf

7404 E16

DL-7 CARRIER H

R45 180

C37 470pf

[5] EIA CLEAR TO SEND (T)

TTL CLEAR TO SEND DDI

C42 470pf

DL-7 CLEAR TO SEND H

R46 180

C36 470pf

[12] EIA SEC REC DATA (JJ)

TTL SEC REC DATA DHI

C43 470pf

DL-7 SEC REC DATA H

R47 180

C39 470pf

DL-7 DATASET INT (1) H

7474 E61

DL-5 RCSR TO BUS L

DL-2 BINIT L

[13] EIA RECEIVE DATA (J)

1489L E21

C44 470pf

(H) (TO BERG INTERLOCK)

NOTES;

1. LETTERS ENCLOSED - EXAMPLE (M) REFER TO PINS ON THE BERG CONNECTOR.
2. NUMBERS W THIN BOXES REFER TO PINS ON THE MALE CINCH CONNECTOR WHEN USING THE BC05-C CABLE. THIS CABLE ALSO CONNECTS BERG PINS M TO E.

* FOR YC VERSION, C36 VALUE CHANGES TO 1200PF

REVISIONS

CHK	CHANGE NO.	REV.

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
DL11		PARTS LIST		

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES

DECIMALS: .XXX = .005, .XX = .02, .X = .1 — ANGLES: ±0° 30'

REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓

MATERIAL

FINISH

DRN. B Pinder	DATE 5-26-72	digital EQUIPMENT CORPORATION MAYN. MASSACHUSETTS
CHK'D. P Seignier	DATE 6-5-72	
ENG. Kenny Condon	DATE 6/27/72	TITLE ASYNCHRONOUS LINE INTERFACE (EIA DRIVERS & RECEIVERS) DL-7
PROJ ENG. P E Jonsun	DATE 6-27-72	
PROD. M Mathews	DATE 6-27-72	
NEXT HIGHER ASSY.		SIZE D / CODE CS / NUMBER M7800-0-1 / REV R
SCALE		
SHEET 7 OF 7		DIST.

LINE	ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
1	1	K-C0-M7800-0-4		X-Y COORDINATE HOLE LOCATION	REF	
2	2	D-AH-M7800-0-5		ASSY/DRILLING HOLE LAYOUT	REF	
3	3	B-MH-M7800-0-6		MODULE ECO HISTORY	REF	
4	4		5009978-00	M7800 H	1	
5	5		9008337-06	HANDLE, FLIP CHIP, MAGENTA	4	
6	6		9006732-00	EYELET, ROLLED FLANGE, .121 OD X .219 LG	8	
7	7		9006735-00	EYELET, FUNNEL FLANGE, .059 OD X .187 LG	10	
8	8	"BLANK"			0	
9	9		1210042-01	SW,ROT 1P 10POS	2	S1,S2
10	10		1209838-00	SOCKET 16PIN	1	E19
11	11		5303154-00	R405-2026 BRKT	1	
12	12		5302825-00	R405-2024 BRKT	1	
13	13		1910651-00	DEC 74175 FF-D QUAD	2	E13,E14
14	14		1909615-00	DEC 8271 SHIFT REG.,4BIT PARALLEL IN/OU	1	E44
15	15		1910046-00	7442 DECODER-1 OF 10,BCD SELECTED	1	E37
16	16		1909704-00	DEC 314A NOR GATE-SINGLE 7IN,UTILOGIC	1	E29
17	17		1905576-00	7410 NAND GATE-TRIPLE 3IN	1	E34
18	18		1909054-00	7493 COUNTER,ASYNCH UP,BINARY	1	E24
19	19		1909686-00	7404 INVERTER GATE-HEX 1IN	4	E6,E16,E38,E39
20	20		1909053-00	7492 COUNTER,ASYNUCH UP,DEVIDE BY 1	1	E25
21	21		1909931-00	DEC 74H04 INVERTER GATE-HEX 1IN	1	E60
22	22		1909937-00	74153 MUX 1 OF 4 (DUAL)	1	E12
23	23		1911469-00	DEC 8640 RECEIVER,BUS,QUAD,UNIBUS,O-BU	7	E3,E4,E33,E35,E40,E45,E46
24	24		1909004-00	DEC 7402 NOR GATE-QUAD 2IN	2	E50,E53
25	25		1909989-00	DEC 7413 NAND GATE-DUAL 4IN SCHMITT TRI	1	E10
26	26		1905575-00	7400 NAND GATE-QUAD 2IN	3	E42,E54,E58
27	27		1909667-00	74H74 FF-D DUAL,EDGE TRIGGER,35MHZ	3	E48,E52,E57
28	28		1910436-00	DEC 74123 ONE SHOT-DUAL,RETRIGGERABLE	1	E43
29	29		1910322-00	DEC 1488L DRIVER,LINE,QUAD,EIA RS-232C	1	E22
30	30		1909705-00	DEC 8881 NAND GATE-QUAD 2IN OPN COLL	11	E1,E2,E5,E7-E9,E11,E30,E47,

REVISION HISTORY		
CRK	ECO NO	REV
JF	00013	R

VARIATIONS FOR THIS ASSY.
00,YC

FIRST USED ON: M7800

MADE BY: M.PIERCE — DATE: 08-FEB-72

CHECKED: J.FERGUSON — DATE: 19-APR-72

DSN.ENG.: L.CONDON — DATE: 27-APR-72

PROD.: J.MC INTYRE — DATE: 27-APR-72

RESP.ENG.: R.HARRINGTON — DATE: 19-OCT-78

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
PARTS LIST
ASYNCHRONOUS LINE INTERFACE

SIZE	CODE	DOCUMENT NUMBER	REV
K	PL	M7800-0-DBP	R

ASSY.NO.: E-CS-M7800-0-1 — EDIT# 5

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LINE	ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
					CONT	E51,E56
31	31		1909051-00	7490 COUNTER,ASYNCH UP,DECADE	2	E20,E26
32	32	"BLANK"			0	
33	33		1910155-00	DEC 7408 AND GATE,POS.QUAD 2IN 14	3	E31,E49,E59
34	34		1909712-00	DEC 8242 COMPARATOR-4BIT N,OPN COLL.	3	E15,E36,E41
35	35		1905547-00	DEC 7474 FF-D DUAL,EDGE TRIGGER,15MHZ	4	E32,E55,E61,E62
36	36		2114137-50	UART MOS P-OR N-CHANNEL $	1	E23
37	37		1300391-00	1.5 K 1/4W 5% CC (13-00	2	R8,R12
38	38		1300479-00	10 K 1/4W 5% CC (13-00	27	R1,R2,R6,R7,R17-R22,R25,
					CONT	R27-R37,R39,R49,R50,R54,R56
39	39		1302385-00	750 1W 5% CC (13-00	1	R16
40	40		1301401-00	750 1/4W 5% CC (13-00	1	R3
41	41		1300338-00	560 1/2W 5% CC (13-00	1	R4
42	42		1300316-00	470 1/4W 5% CC (13-00	4	R9,R13,R43,R51
43	43		1300309-00	390 1/4W 5% CC (13-00	1	R38
44	44		1300271-00	220 1/4W 5% CC (13-00	2	R44,R53
45	45		1301322-00	180 1/4W 5% CC (13-00	2	R42,R58
46	46		1300250-00	150 1/4W 5% CC (13-00	1	R11
47	47		1300229-00	100 1/4W 5% CC (13-00	4	R24,R45-R47
48	48		1301477-00	82 1/4W 5% CC (13-00	1	R5
49	49		1309405-00	68 1/2W 5% CC (13-00	1	R10
50	50		1300202-00	47 1/4W 5% CC (13-00	1	R41
51	51		1300365-00	1 K 1/4W 5% CC (13-00	6	R23,R26,R40,R48,R52,R55
52	52		1300394-00	1.5 K 1/2W 5% CC (13-00	2	R14,R15
53	53		1000019-00	150.0 MMF 100V 5%200PPM DM15S (10-00	1	C33
54	54		1005306-00	6.8MFD 35V 10% S.TANT (10-00	6	C22-C27
55	55		1005965-00	.47 MFD 35V 10% 150D S.TA (10-00	1	C29
56	56		1001610-01	.01 MFD 100V -20+80 Z5U DISC 8000PF MIN	30	C1-C21,C28,C30,C45-C49,C52,C55
57	57		1000042-00	1000.0 MMF 100V 5%200PPM DM15S (10-00	1	C31
58	58		1000024-00	470.0 MMF 100V 5%200PPM DM15S (10-00	9	C32,C37-C44
59	59		1000023-00	330.0 MMF 100V 5%200PPM DM15S (10-00	2	C34,C35
60	60		1000021-00	220.0 MMF 100V 5%200PPM DM15S (10-00	1	C36
61	61		1009678-00	.047 MFD 16V -20+80 Y5T DISC	2	C50,C51
62	62		1000025-00	560.0 MMF 100V 5%200PPM DM15S (10-00	1	C54
63	63		1000016-00	100.0 MMF 100V 5%200PPM DM15S (10-00	1	C53
64	64		1503409-00	DEC6534D PNP 310MW SI 40 90	2	Q1,Q2
65	65		1104860-00	1N 746A VZ= 3.3 5%	1	D6
66	66		1100114-00	D 664 QS\75PCB PIV= 25V SP	6	D1-D5,D7
67	67		1202812-00	INSULATOR AUGAT#8000PG1	2	
68	68		9006001-01	SCREW,PAN PHIL, 2-56X 1/4 SS/PAS	3	
69	69		9006555-00	NUT,HEX , 2-56X3/16AF X 1/16 THK SS/	3	
70	70		1910650-00	74161 COUNTER,SYNCHR. UP	1	E27
71	71		9006631-00	WASHER,LOCK,INT,.180OD X .096ID X .031 THK	3	
72	72		1109502-00	1N 4742 VZ= 12.0 10% 1W Y	1	D8
73	73		1302336-00	39 1/2W 5% CC (13-00	1	R57
74	74		9107560-01	WIRE,BUSS,22AWG	A/R	
75	75		1002424-00	1200.0 MMF 100V 5%200PPM DM15S (10-00	0	
76	76		9009185-00	JUMPER, WIRE, INSULATED, BLACK BAND	1	

	TITLE	SIZE	CODE	DOCUMENT NUMBER	REV
DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	PARTS LIST ASYNCHRONOUS LINE INTERFACE	K	PL	M7800-0-DBP	R

LINE	ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
77	77		1209941-02	HEADER 100 40POS RT ANGLE	1	
78	78		1209941-03	HEADER RT ANGLE LEFT LATCH FOR	1	
79	79		1209941-04	HEADER RT ANGLE,RIGHT LATCH FOR	1	
80	80		1910390-00	DEC 7380 NOR GATE-QUAD 2IN,FAST 380,UTI	1	E28
81	81		1913130-00	DEC 1489A RECEIVER,LINE,QUAD,EIA RS-232	2	E18,E21
82	82		1911324-00	7414 INVERTER,HEX 1IN SCHMITT TRIGG	1	E17
83	83		9105740-55	WIRE(WRAP)30AWG UL1423 (91-00	A/R	

SIZE	CODE	NUMBER	REV.
B	DD	M7856-0	C

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS
B-MH-M7856-0-6	2		SLU/RTC MODULE	E F H
D-CS-M7856-0-1	8		SLU/RTC MODULE	H J K
D-UA-M7856-0-0	2		SLU/RTC MODULE	H J K
D-MD-5011464-0-0	3		SLU/RTC MODULE	E E F
B-DD-M7856-0	1		SLU/RTC MODULE	A B C
K-PL-M7856-0-0	3		SLU/RTC MODULE	H J K
		5011464	ETCHED BOARD	E E F
K-PC-M7856-0-DBG			PC DESIGN DATA BASE	E E F
K-PL-M7856-0-DBP			P/L DATA BASE	H J K
D-EC-5011464-0-0	3		ETCH CUT DRAWING	- - F

NOTES:

REVISIONS	REV.	CHG NO.	DATE
	A	00004	2/28/78
	B	MK005	4-80
	C	MK006	10-80

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USED ON OPTION/MODEL

DRN.	Don Dingledein	2/27/78
CHK'D	John P. Schowalter	3-2-78
ENG.	Bob Pratt BC	3-9-78
PROD	CB	3-16-78

TITLE SLU/RTC MODULE

SIZE	CODE	NUMBER	REV.
B	DD	M7856-0	C

SHEET 1 OF 1

DRB 126

MK

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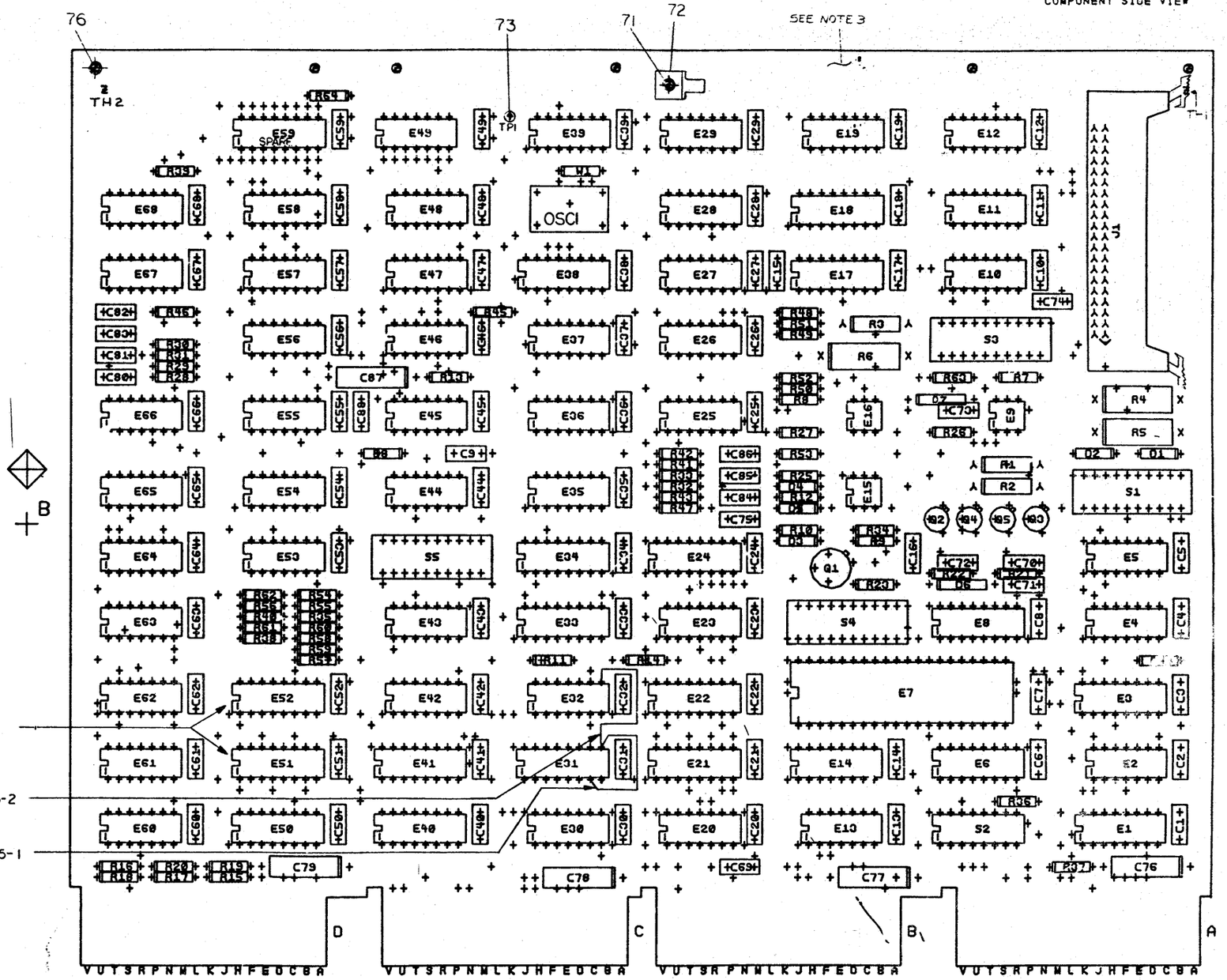
COMPONENT SIDE VIEW



NOTES:
1. C HOLES .0465 (+.000 -.0045) MAYNARD ONLY
2. E51 AND E52 ARE ENGINEER OPTIONS, DO NOT INSERT
3. DO NOT ASSEMBLE PLASTIC HANDLE ABOVE E19

CHK	CHANGE NO	REV
H.	M7886-0004	J
B. CRAMM	M7856-M0005	K
R. HARRINGTON	M7856-M0006	K

HOLE DATA

SYMBOL	+	A	X	◆	Z	W	Δ	□	◆	*
FIN HOLE SIZE	.038	.042	.055	.093	.128					
PLATED	X	X	X	X	X					
NON PLATED										
QTY.	1863	46	6	1	9					
○=OFF GRD HLE					6					
DRILL SIZE										

.025 GRID UNLESS INDICATED

BOARD FABRICATION INFORMATION

PANEL SIZE	QUAD 8.5 X 11.75
PANEL DATA DWG.	
PANEL MAT'L	FL-GF-.052-C 1/1
DEC PS -	1400000
QTY. OF LAYERS	2
PTH, YES	PRINT AND ETCH
SOLDER MASK Y	SIDE 2 Y BOTH SIDES
GOLD CONTACTS Y	BOTTOM Y TOP

SIGNATURES	DATE
DRN. David Bingham	2/4/78
CHK'D.	2-14-78
ENG. Bob Pratt MC	2-9-78
PROJ. ENG. Bob Pratt MC	2-9-78
PROD.	3-10-78
SCALE: 2 to 1	
SHT. 1 OF 2	
NEXT HIGHER ASSY.	

digital

TITLE: DRILL AND ETCH DRAWING

SIZE	CODE	NUMBER	REV
D	UA	M7856-0-0	K

ETCH REV. [illegible]

M:K 1 MS#

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REWORK INSTRUCTIONS

ECO M7856-MKØØ5

REFER TO D-EC-5011464-0-0 FOR ETCH CUTS

WIRE ADDS (3Ø GAUGE WIRES):

Ø5-1 E31 PIN 7 TO E31 PIN 9.
Ø5-2 E31 PIN 9 TO E32 PIN 8.

REINSTALL NEW 8837 E31 (NOT NECESSARY IN VOLUME MANUFACTURING IF ETCH CUTS DONE PRIOR TO IC INSERTION).

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
SLU/RTC MODULE	D	UA	M7856-Ø-Ø	K
SCALE NONE SHEET 2 OF 2	DIST.			

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
1	1		1001610-01	.01 MFD50/100V +80-20% DISC	67	C1-C8,C10-C15,C17-C68,C88
2	2		1000024-00	470.0 MMF 100V 5%200PPM MICA	7	C9,C69-C74
3	3		1000023-00	330.0 MMF 100V 5%200PPM MICA	1	C75
4	4		1000015-00	82.0 MMF 100V 5%200PPM MICA	6	C80-C85
5	5		1000019-00	150.0 MMF 100V 5%200PPM MICA	1	C86
6	6		1002627-00	2.2MFD 20V 10% S.TANT	1	C87
7	7		1005306-00	6.8MFD 35V 10% S.TANT	4	C76-C79
8	8		1001765-00	.005 MFD 100V 20% Z5T DISC	1	C16
9	9		1105796-00	1N 4004 PIV=400 I= 1A D041 SP	3	D1-D3
10	10		1109502-00	1N 4742 VZ= 12.0 10% 1W Y	1	D4
11	11		1105610-00	MCL1301 CL@1MA FROM10-80V	2	D6,D7
12	12		1100114-00	D 664 QS\75PCB PIV= 25V SP	1	D8
13	13		1211164-06	SW,DIP 1P 1A 10POS	4	S1,S3,S4,S5
14	14		1211164-04	SW,DIP 1P 1A 8POS	1	S2
15	15		1209941-02	HEADER 100 40POS RT ANGLE	1	J1
16	16		1300295-00	330.0 .25 W 5.0 % CC	1	R63
17	17		1300260-00	180.0 .50 W 5.0 % CC	3	R1,R2,R3
18	18		1303048-00	560.0 1.0 W 5.0 % CC	3	R4-R6
19	19		1301327-00	68.0 K .25 W 5.0 % CC	2	R7,R8
20	20		1300197-00	33.0 .25 W 5.0 % CC	1	R9
21	21		1300539-00	120.0 K .25 W 5.0 % CC	1	R10
22	22		1301424-00	680.0 .25 W 5.0 % CC	1	R12
23	23		1300219-00	68.0 .25 W 5.0 % CC	1	R25
24	24		1300229-00	100.0 .25 W 5.0 % CC	2	R13,R14
25	25		1301322-00	180.0 .25 W 5.0 % CC	4	R15,R16,R17,R18
26	26		1300309-00	390.0 .25 W 5.0 % CC	4	R19-R22
27	27		1301422-00	7.50 K .25 W 5.0 % CC	1	R23
28	28		1300250-00	150.0 .25 W 5.0 % CC	2	R26,R27
29	29		1301972-00	270.0 .25 W 5.0 % CC	6	R28-R33
30	30		1300479-00	10.0 K .25 W 5.0 % CC	27	R35,R36,R37,R39-R62

REVISION HISTORY			BASIC PART NO: M7856											
ENG	ECO NUMBER	REV	SECTION A OF A	DRN: J.THELLAN	DATE: 02-MAR-78		D	I	G	I	T	A	L	
RH	MK005	J	SECTION.VARIATION INDEX	CHK'D: J.FERGUSON	DATE: 02-MAR-78	TITLE: PARTS LIST								
RH	MK006	K	[A] 00			SLU/RTC OPTION								
			[B]	DES.ENG: R.B.PRATT	DATE: 02-MAR-78									
			[C]			DOCUMENT NUMBER								
			[D]											
			[E]	RESP.ENG.: R.HARRINGTON	DATE: 16-APR-80	SIZE	CODE	NUMBER				REV		
			[F]											
			[H]	MFG.ENG.: JUAN AVILES	DATE: 16-APR-80	K	FL	M7856-0-0				K		
			[J]											
			[K]	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME:						EDIT #		
			[L]	D-UA-M7856-0-0	*B-DD-M7856-0	MK0243.PLS						12		
			[M]											
			[N]											

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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
31	31		1300365-00	1.0 K .25 W 5.0 % CC	3	R11,R38,R64
32	32		1300271-00	220.0 .25 W 5.0 % CC	1	R34
33	33		1509338-00	DEC6531B NPN 310MW SI 40 90 P	1	Q1
34	34		1510705-00	XA 05 NPN 500MW SI 60 50 P	2	Q3,Q4
35	35		1510706-00	XA 55 PNP 500MW SI 60 50 P	2	Q2,Q5
36	36		1510727-01	OPTO COUPLED ISOLATOR	2	E9,E16
37	37		1811660-02	OSCILLATOR, XTAL 5.0688 MHZ	1	OSC1
38	38		1911998-00	4N26 OPTO COUPLED ISLTR	1	E15
39	39		1911579-00	8641 TRANSCEIVER,BUS,QUA	3	E1,E6,E14
40	40		1909705-00	DEC 8881 NAND GATE-QUAD 2IN O	6	E2,E13,E20,E60,E61,E49
41	41		1911527-00	8097 BUFFER GATE-HEX 2INP	1	E3
42	42		1910155-00	DEC 7408 AND GATE,POS.QUAD 2I	3	E4,E44,E64
43	43		1905547-00	7474 FF-D DUAL,EDGE TRIGG	7	E5,E35,E37,E55,E57,E63,E69
44	44		1910459-01	UART,WSTRN DIG #TR1602A (1.5 STO	1	E7
45	45		1910651-00	DEC 74175 FF-D QUAD	1	E8
46	46		1910323-00	DEC 1489L RECEIVER,LINE,QUAD,	1	E10
47	47		1910322-00	DEC 1488L DRIVER,LINE,QUAD,EI	1	E11
48	48		1909936-00	74151 MUX 1 OF 8	2	E17,E18
49	49		1909053-00	7492 COUNTER,ASYNUCH UP,D	1	E12
50	50		1909054-00	7493 COUNTER,ASYNCH UP,BI	5	E19,E26,E27,E28,E39
51	51		1909937-00	74153 MUX 1 OF 4 (DUAL)	1	E21
52	52		1910655-00	74157 MUX 2 TO 1 QUAD	2	E22,E38
53	53		1909004-00	DEC 7402 NOR GATE-QUAD 2IN	5	E23,E53,E58,E62,E36
54	54		1910436-00	DEC 74123 ONE SHOT-DUAL,RETRIG	1	E24
55	55		1910091-00	DEC 7437 AND GATE-QUAD 2IN,BU	1	E25
56	56		1910011-00	DEC 7486 X-OR GATE-QUAD 2INPU	1	E29
57	57		1909704-00	DEC 314A NOR GATE-SINGLE 7IN,	1	E30
58	58		1911116-00	DEC 8837 RECEIVER,BUS,HEX,UN	4	E31,E40,E41,E50
59	59		1905576-00	7410 NAND GATE-TRIPLE 3IN	1	E32
60	60		1909712-00	DEC 8242 COMPARATOR-4BIT N,	2	E42,E43
61	61		1911324-00	7414 INVERTER,HEX 1IN SCH	2	E45,E66
62	62		1905575-00	7400 NAND GATE-QUAD 2IN	4	E46,E54,E65,E67
63	63		1910035-00	DEC 74197 COUNTER,ASYNCH UP,H1	1	E47
64	64		1909486-00	DEC 384 OR GATE-QUAD 2IN,UTI	1	E48
65	65		1909686-00	7404 INVERTER GATE-HEX 1I	1	E56
66	66		23095A1-00	A1-07	1	E33
67	67		23094A1-00	A1-07	1	E34
68	68		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	1	W1
69	69		9006732-00	EYELET, ROLLED FLANGE, .121 OD X	6	
70	70		9008337-06	HANDLE, FLIP CHIP, MAGENTA	3	
71	71		9009000-00	EYELET, ROLLED FLANGE, .121 OD X	1	
72	72		9007112-00	TERM QUICK 1POS ADAPTER	1	
73	73		9007791-00	TERM PCB 2POS SOLDER,TURRET	1	TP1
74	74		1104860-00	1N 746A VZ= 3.3 5%	1	D5
75	75		1209941-03	HEADER RT ANGLE LEFT L	1	
76	76		1209941-04	HEADER RT ANGLE,RIGHT	1	
77	77		9105740-55	WIRE(WRAP)30AWG UL1423	A/R	

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							SLU/RTC OPTION		K	PL	M7856-0--0	K

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

78 NOTE: 1001610-00 MAY BE USED IN PLACE OF 1001610-01

D	I	G	I	T	A	L	TITLE	SIZE	CODE	DOCUMENT NUMBER	REV
							SLU/RTC OPTION SECTION A OF A	K	PL	M7856-0-0	K

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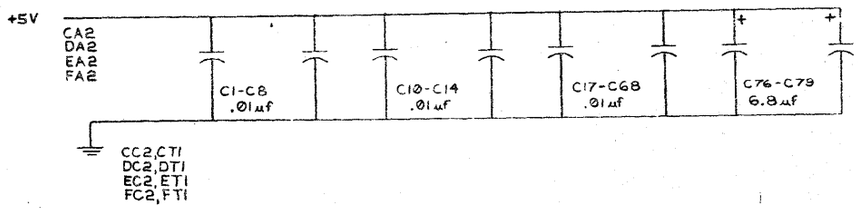
NOTES:



IC 8641	8	16
IC 384	1	8
IC 8837	8	16
IC 314A	1	8
IC 74123	8	16
IC 74157	8	16
IC 74153	8	16
IC 7493	10	5
IC 7492	10	5
IC 74151	8	16
IC 74175	8	16
IC UART	1	3
IC 8097	8	16
IC TYPE	GND	+5V

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

IC PIN LOCATIONS

REV.	CHANGE NO.	REVISIONS
H	M7856-000004	
J	M7856-MK005	
K	M7856-MK006	

R. HARRINGTON 11-APR-80
R. HARRINGTON 24-MAR-80
R. HARRINGTON 3-MAR-80
B. CRAMM 2/28/79

FIRST USED ON OPTION MODEL

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.

PARTS LIST

ETCH BOARD REV. E

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

SEMICONDUCTOR CONVERSION CHART

DRN. D. Dingeldein	DATE 2/23/78	digital
CHK'D.	DATE 3-2-78	
ENG. Bob Pratt MC	DATE 3-9-78	
PROJ. ENG. Bob Pratt MC	DATE 3-9-78	
PROD.	DATE 3-13-78	
NEXT HIGHER ASSY		TITLE: SLU/RTC OPTION
SCALE		SIZE D CODE CS NUMBER M7856-0-1 REV. K
SHEET 1 OF 8		DIST.

M7856-0-1 K

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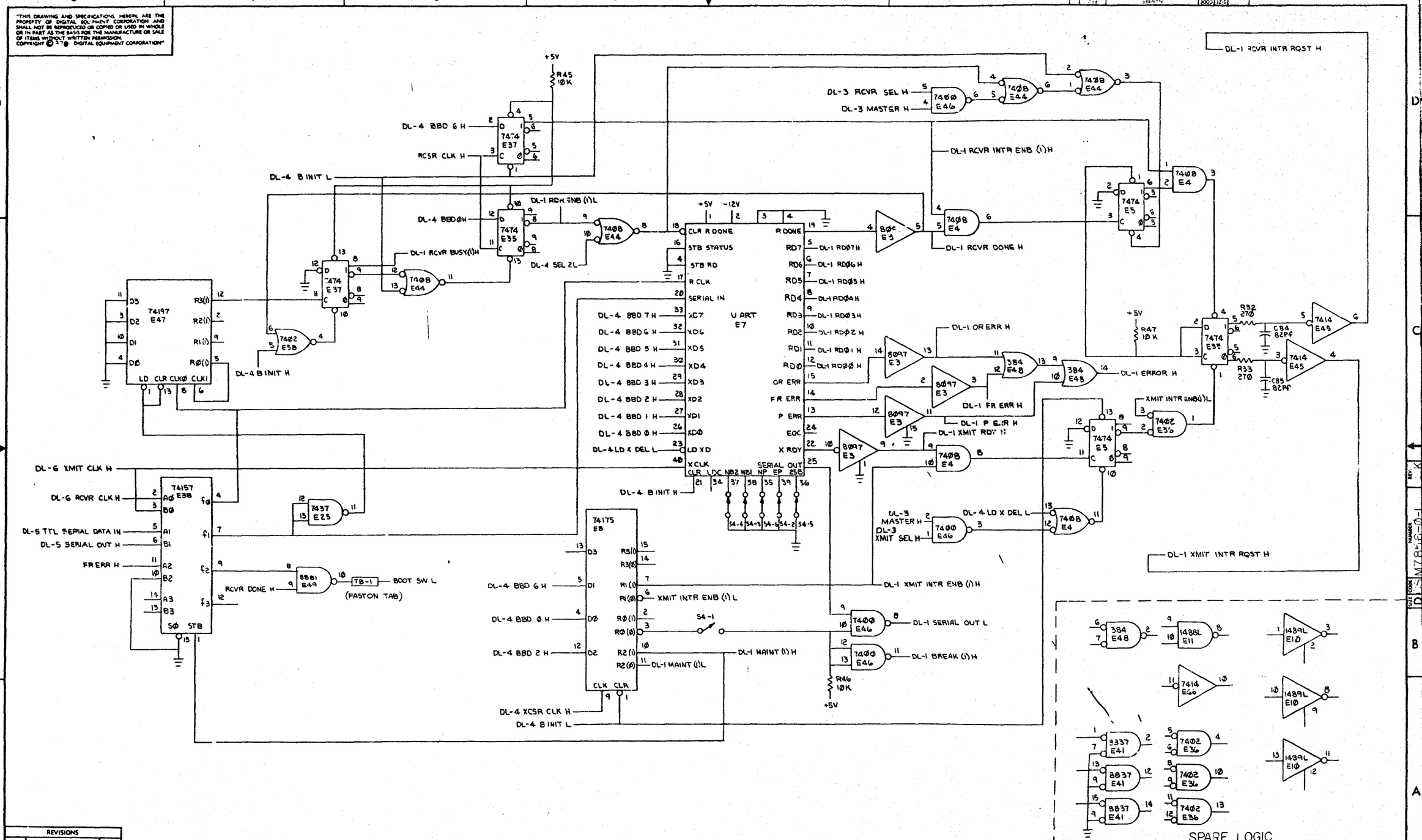

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
SLU/RTC OPTION (DL-1)	D	CS	M7856-Ø-1	K
SCALE —	SHEET 2 OF 8	DIST.		

DEC FORM NO. DRD 138

MK

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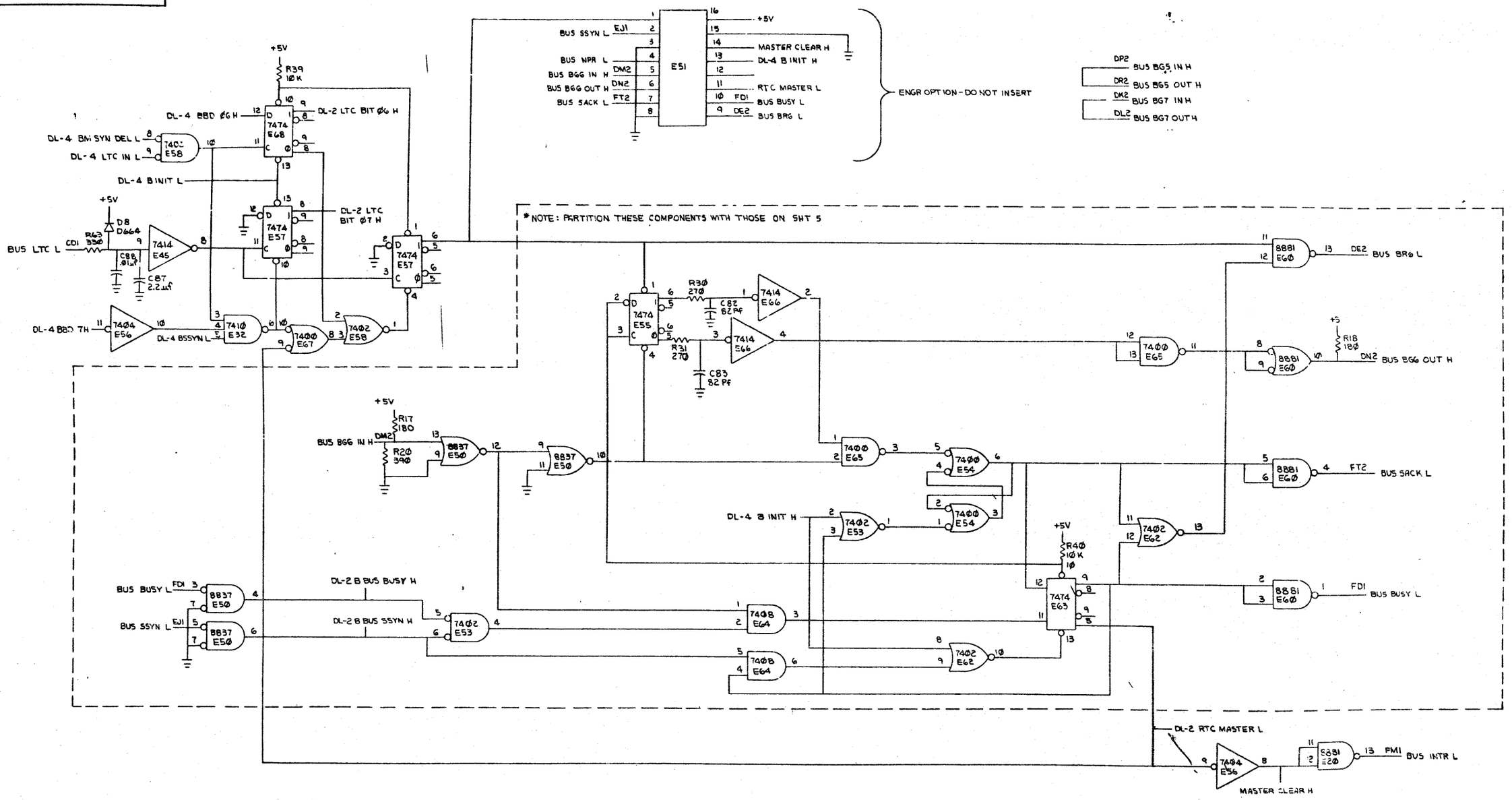

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
SLU/RTC OPTION (DL-2)	D	CS	M7856-Ø-1	K
SCALE —	SHEET 3 OF 8		DIST.	

DEC FORM NO. DRD 138

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BUS SACK L — FT2
BUS BG4 OUT H — DT2
BUS BG4 IN H — DS2
BUS NPR L — FJ1
BUS SSYN L — EJ1
E52 (8 7 6 5 4 3 2 1)
9 DH2 BUS BR4 L
10 FD1 BUS BUSY L
11 MASTER L
12 SACK H
13 DL-4 B INIT H
14 MASTER H
15
16 +5V
ENGR OPTION DO NOT INSERT

*NOTE: PARTITION THESE COMPONENTS WITH THOSE NOTED ON SHT. 4

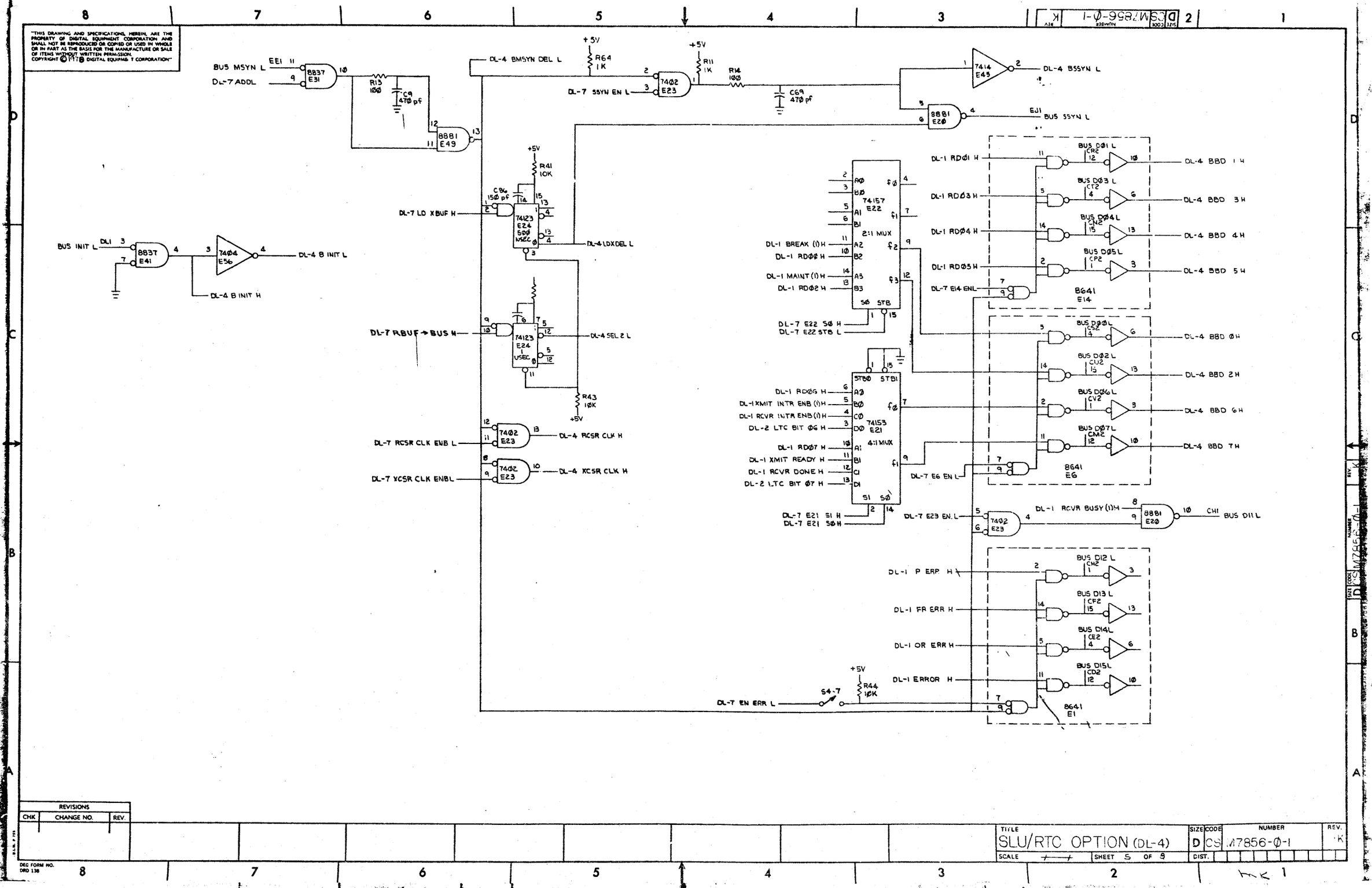
DL-1 XMIT INTR RQST H
DL-1 RCVR INTR RQST H
384 E48
7404 E56
7400 E65
7474 E55
R28 270
R29 270
C80 82pf
C81 82pf
7414 E66
7414 E66
7414 E44
8881 E61 — DH2 BUS BR4 L
8881 E61 — DT2 BUS BG4 OUT H
R116 180
+5V
R15 180
R19 390
BUS BG4 IN H — DS2
8837 E50
8837 E50
8881 E61 — FT2 BUS SACK L
7400 E65
7400 E54
7400 E54
DL-4 B INIT H
7402 E53
7402 E62
8881 E61 — FD1 BUS BUSY L
R35 10K
7474 E63
DL-2 BBUS BUSY H
BBUS SSYN H
7402 E53
7408 E64
7408 E64
7402 E62
S2-4 * CT2 BUS DØ3 L
S2-7 * CM2 BUS DØ7 L
S2-8 * CL2 BUS DØ8 L
S2-5 * DL-2 RTC MASTER L
R37 10K
R36 10K
8881 E2 — CV2 BUS DØ6 L
MASTER L
7404 E56
DL-3 MASTER H
8881 E13 — FMI BUS INTR L
S2-3 * CP2 BUS DØ5 L
S2-6 * CN2 BUS DØ4 L
CU2 BUS DØ2 L
SACK H
7400 E67
7474 E68
DL-3 RCVR SEL H
DL-3 XMIT SEL H
7400 E67

* VECTOR ADDRESS SWITCHES - ON=1 OFF=Ø

REVISIONS		
CHK	CHANGE NO.	REV

TITLE: SLU/RTC OPTION (DL-3)
SIZE D | CODE CS | NUMBER M7856-Ø-1 | REV. K
SCALE | SHEET 4 OF 9 | DIST.

DEC FORM NO. DRD 138



REVISIONS

CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
SLU/RTC OPTION (DL-4)	D	CS	M7856-Ø-1	K
SCALE —	SHEET 5 OF 9	DIST.		

DEC FORM NO. DRD 138

mk 1

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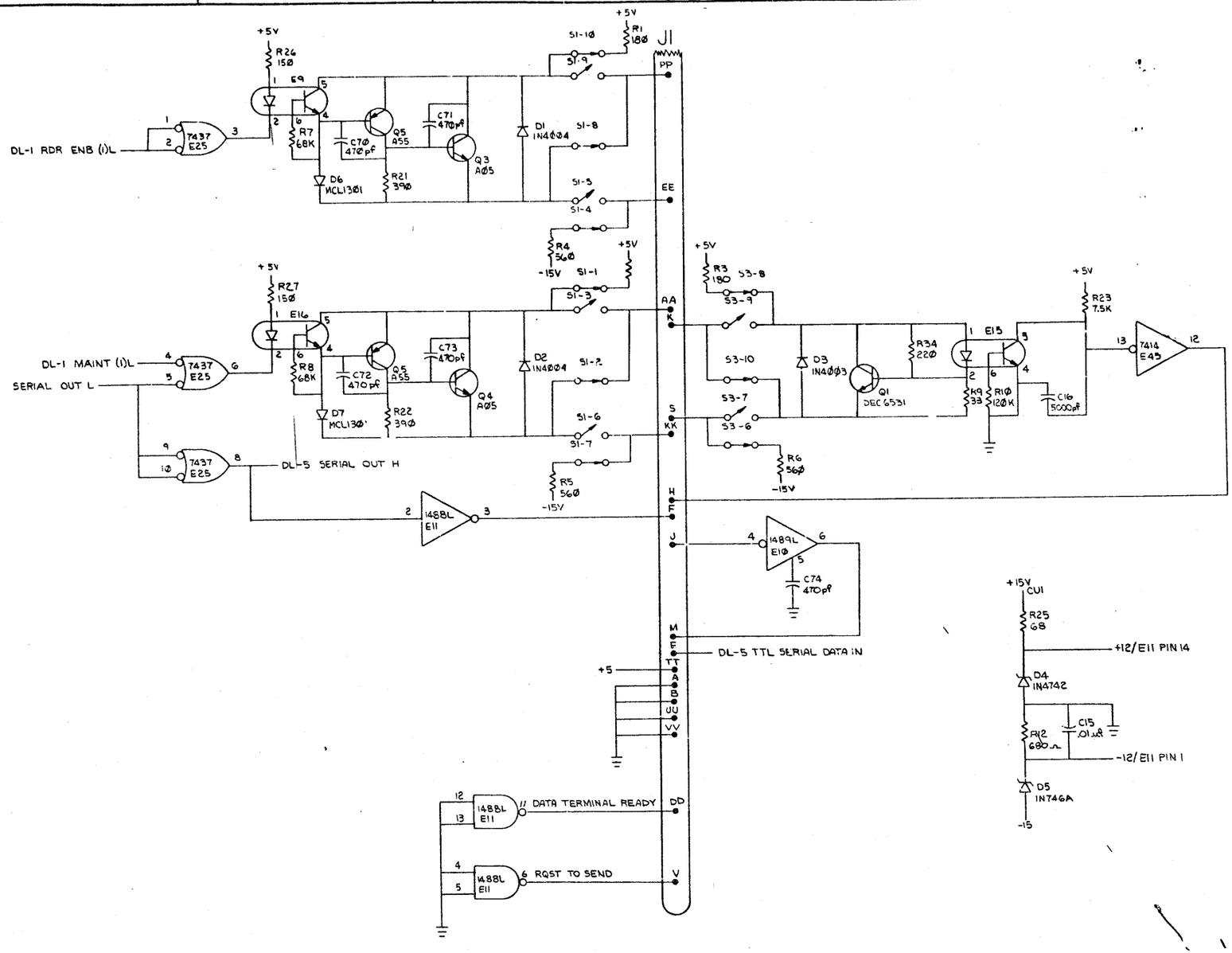
NOTE:
1. SWITCHES ARE SHOWN IN ACTIVE MODE.
2. D7, D6 ARE MCL1301 1 MA CONSTANT CURRENT DIODES.



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
SLU/RTC OPTION (DL-5)	D	CS	M7856-0-1	K
SCALE —	SHEET 6 OF 8	DIST.		

DEC FORM NO DRD 138

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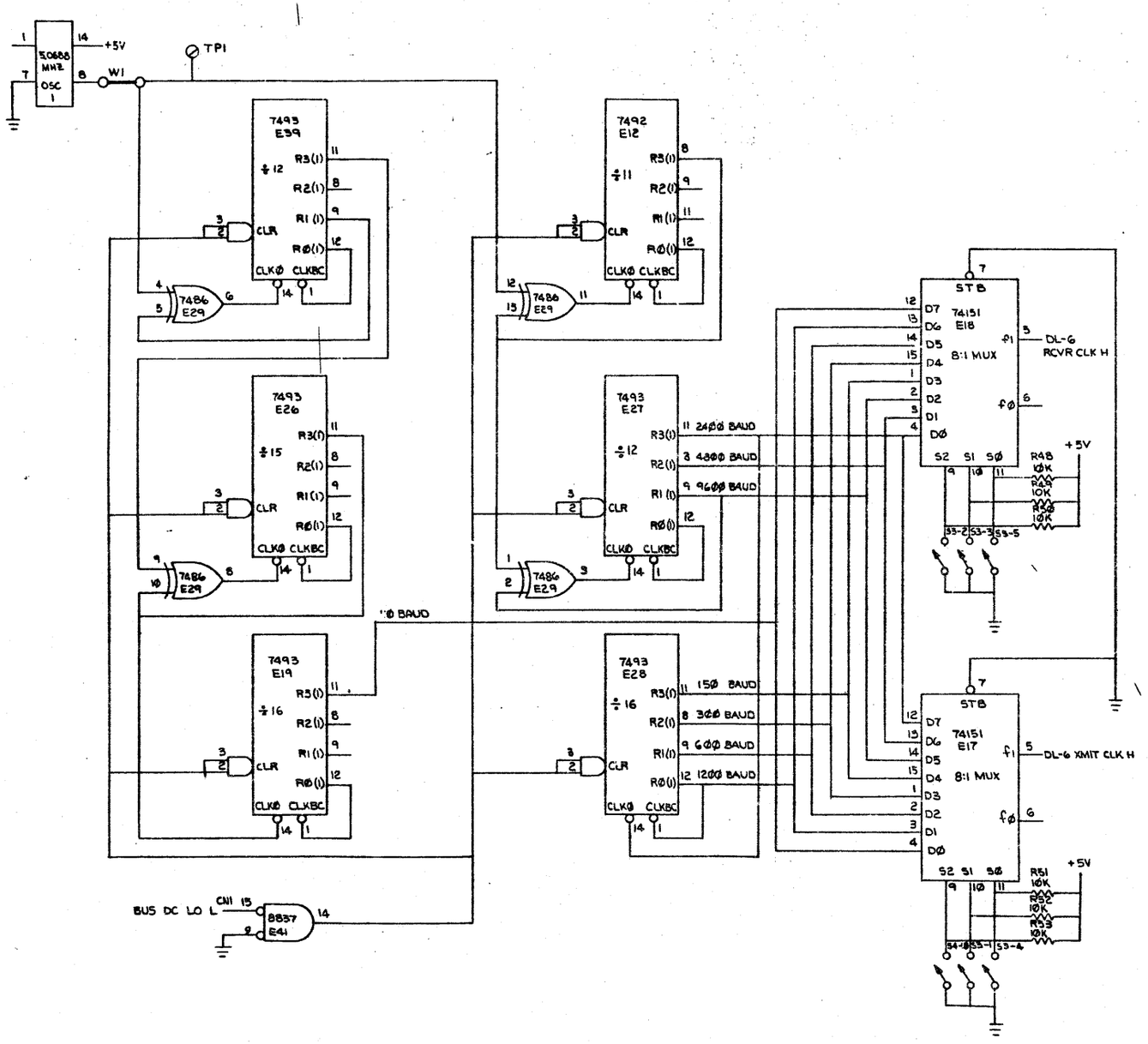

BAUD RATE	RCVR S3-2	RCVR S3-3	RCVR S3-5	XMIT S4-1Ø	XMIT S3-1	XMIT S3-4
11Ø	OFF	OFF	OFF	ON	ON	ON
15Ø	ON	OFF	OFF	OFF	ON	ON
3ØØ	OFF	ON	ON	ON	OFF	OFF
6ØØ	OFF	ON	OFF	ON	OFF	ON
12ØØ	OFF	OFF	ON	ON	ON	OFF
24ØØ	ON	ON	ON	OFF	OFF	OFF
48ØØ	ON	ON	OFF	OFF	OFF	ON
96ØØ	ON	OFF	ON	OFF	ON	OFF

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
SLU/RTC OPTION (DL-6)	D	CS	M7856-Ø-1	K
SCALE —	SHEET 7 OF 8	DIST.		

DEC FORM NO. DRD 138

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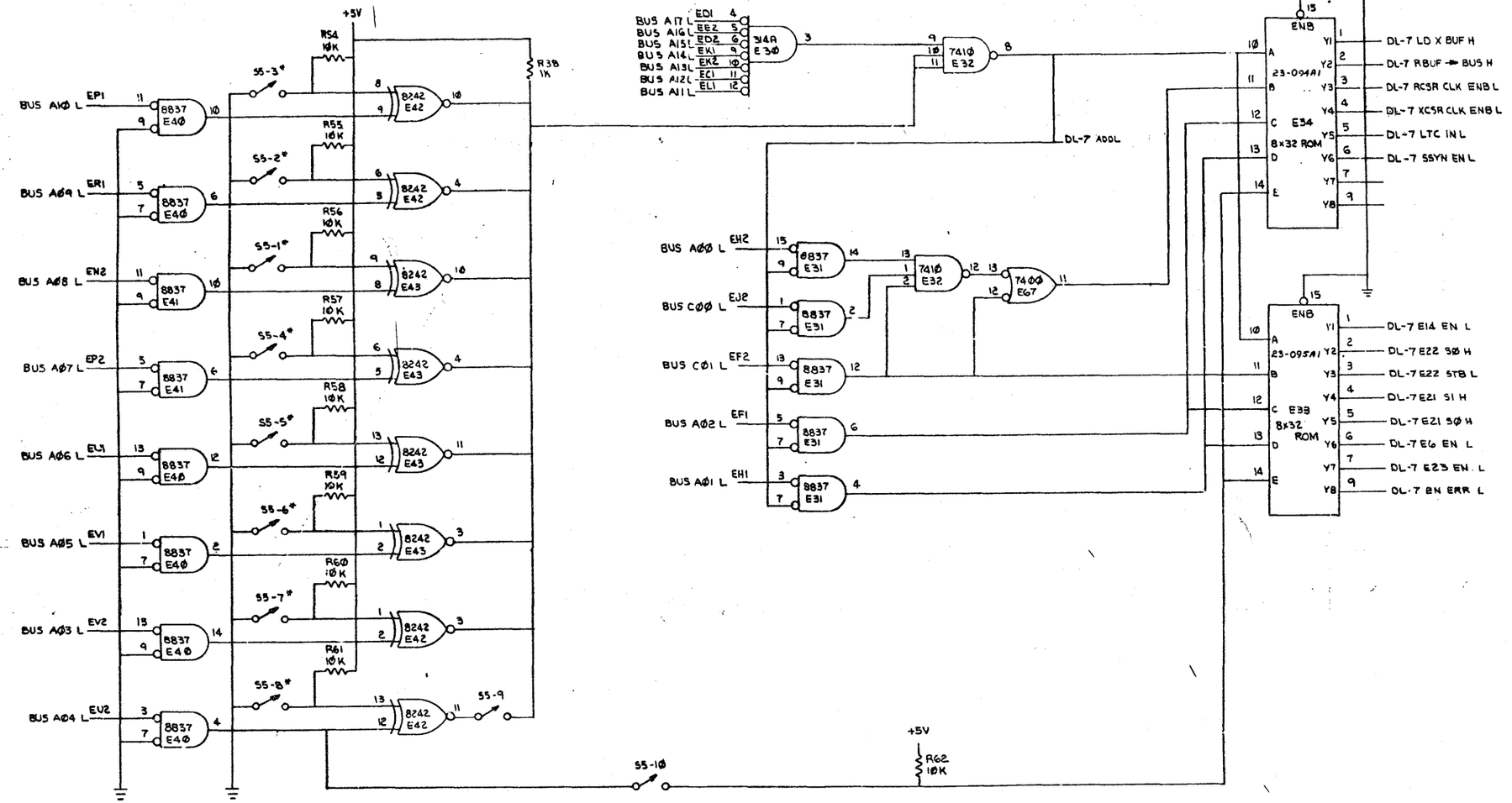

*ADDRESS SELECTION SWITCHES" OFF=1 ON=0

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
SLU/RTC OPTION (DL-7)	D	CS	M7856-0-1	K
SCALE — SHEET 8 OF 8	DIST.			

DEC FORM NO. DRD 138

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FIELD MAINTENANCE PRINT SET

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K-PL-DB11-0-0	DB11 OPTION
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D-BS-DB11-A-02	BUS REPEATER DB11 UNIDIR. LINES
D-BS-DB11-A-03	BUS REPEATER DATA LINES
D-IC-DB11-A-04	BUS AND POWER CONNECTIONS
D-BD-DB11-A-05	DB11 INTERCONNECTION DIAGRAM
D-AD-7009612-0-0	WIRED ASSY (DB11-A)
A-WT-7009612-0	AWT REVISION STATUS
D-IA-7009563-0-0	POWER HARNESS DA11-F/DD11-B
C-IA-7008855-0-0	POWER CABLE SYSTEM UNIT
D-IA-7008909-0-0	CABLE, POWER EXPANDER BOX 11/45
D-CS-M7212-0-1	BUS REPEATER A LINES M7212
D-CS-M7213-0-1	BUS REPEATER CARD
B-CS-M783-0-1	UNIBUS DRIVERS M783
B-CS-M784-0-1	UNIBUS RECEIVERS M784
B-CS-M785-0-1	UNIBUS TRANSCEIVERS M785
D-CS-M930-0-1	BUS TERMINATOR
D-CS-M7248-0-1	UNIBUS REPEATER BBSY
C-CS-M920-0-1	INTERNAL BUS CONNECTOR M920

UNIT VARIATIONS COVERED BY THIS PRINT SET

- DB11-M
- DB11-MP

DB11

FIELD MAINTENANCE PRINT SET

DIGITAL EQUIPMENT CORPORATION

PRINTSET ORDER NO.

MP00976-01 REV A1

REVISION HISTORY

REV	ECO NUMBER	DATE
A	INITIAL	17 AUG 83

CONT. REVISION HISTORY

REV	ECO NUMBER	DATE

MADE BY: R. ROBICHAUD
DATE: 17 AUG 83

CHECKED BY: J. FALKOWSKI
DATE: 17 AUG 83 J. Falkowski
24 OCT 83 R. Bergeron

PROJECT ENGR: R. BERGERON
DATE: 17 AUG 83 27 OCT 83

RSPBLE ENGR: M. LAWRENCE
DATE: 17 AUG 83 B Bergeron 27 OCT 83

FIELD SERVICE: S. CRANSTON
DATE: 17 AUG 83 S. Cranston 10-27-83

digital

TITLE: FIELD MAINTENANCE PRINT SET

DB11

SIZE	CODE	DOCUMENT NUMBER	REV.
K	TC	DB11-0-1	A

SHEET 1 OF 1

MK

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FOR FIELD MAINTENANCE PRINT SET REFER TO K-TC-DB11-0-1

UNIT VARIATIONS

VARIATION	TITLE
DB11-M	UNIBUS REPEATER
DB11-MP	SYSTEM INTEGRATED DB11-M

REVISION HISTORY			USED ON OPTION/MODEL
ENG	ECO NUMBER	REV	
---	INITIAL	A	DB11

RESPONSIBLE ENG. : M. LAWRENCE
DATE : 17 AUG 83
5 Oct 83

MADE BY : R. ROBICHAUD
DATE : 17 AUG 83
5-OCT-83

CHECKED BY : J. FALKOWSKI
DATE : 17 AUG 83
22 AUG 83

DESIGN ENGINEER : R. BERGERON
DATE : 17 AUG 83
5 oct 83

PRODUCTION ENG. : W. LADNER
DATE : 17 AUG 83
27 OCT 83

d i g i t a l

TITLE DRAWING DIRECTORY

DB11

SIZE	CODE	DOCUMENT NUMBER	REV.
K	DD	DB11-0	A

SHEET 1 OF 3 | EDIT # 0001

MK

FIND #	DRAWING NUMBER	DESCRIPTION	TYPE
1	MP00976-01	FIELD MAINTENANCE PRINTSET (MP)	-
	K-TC-DB11-0-1	F.M.P.S. DB11	-
	K-PL-DB11-0-0	DB11 OPTION	E/M
	D-IA-7009563-0-0	POWER HARNESS DA11-F/DD11-B	E/M
2	D-AD-7009612-0-0	WIRED ASSY (DB11-A)	E/M
	D-IA-7009152-0-0	BACKPLANE ASSY	E/M
	A-DC-7406371-0-0	LOGIC FRAME DECALS	-
	A-DC-7411881-0-0	DECAL LOGIC ASSY REVISION	-
	K-WL-DB11-A-6	WIRE LIST	E
	A-WT-7009612-0	DB11-A, REVISION STATUS	-
3	C-UA-M920-0-0	INTERNAL BUS CONN ASSY	E/M
	A-PL-M920-0-0	INTERNAL BUS CONN ASSY	E/M
	C-CS-M920-0-1	CIRCUIT SCHEMATIC	E
	K-CO-M920-0-4	X-Y COORDINATE HOLE LOCATION	-
	D-AH-M920-0-5	ASSY/DRILLING HOLE LOCATION	E/M
	D-IA-5008647-0-0	ETCH BOARD (M920)	E/M
	A-DC-7407806-0-0	DEC UNIBUS DECAL	-
	B-MH-M920-0-6	MODULE ECO HISTORY	-
4	C-IA-7008855-0-0	POWER CABLE SYSTEM UNIT	E/M
5	A-PL-G772-0-0	POWER CONNECTOR G772	E/M
	B-CS-G772-0-1	POWER CONNECTOR G772	E
	K-CO-G772-0-4	X-Y COORDINATE HOLE LOCATION	-
	C-AH-G772-0-5	ASSY/DRILLING HOLE LAYOUT	E/M
	B-MH-G772-0-6	MODULE ECO HISTORY	-
	D-IA-5008633-0-0	ETCH BOARD G772	E/M
6	D-IA-7008909-0-0	CABLE, POWER EXPANDER BOX 11/45	E/M
7	C-IA-7011960-0-0	SUPPORT, HARNESS	M
	C-MD-7412443-0-0	HOLDER, CABLE	M
	C-MD-7415015-0-0	BRACKET, CABLE RETAINING	M

FIND #	DRAWING NUMBER	DESCRIPTION	TYPE
8	A-PL-M7212-0-0	BUS REPEATER A LINES M7212	E/M
	D-CS-M7212-0-1	BUS REPEATER A LINES M7212	E
	K-CO-M7212-0-4	X-Y COORDINATE HOLE LOCATION	-
	D-AH-M7212-0-5	ASSY/DRILLING HOLE LOCATION	E/M
	B-MH-M7212-0-6	MODULE ECO HISTORY	-
9	B-DD-M7213-0	BUS REPEATER CARD	-
10	A-PL-M783-0-0	UNIBUS DRIVERS M783	E/M
	B-CS-M783-0-1	UNIBUS DRIVERS M783	E
	K-CO-M783-0-4	X-Y COORDINATE HOLE LOCATION	-
	D-AH-M783-0-5	ASSY/DRILLING HOLE LAYOUT	E/M
	B-MH-M783-0-6	MODULE ECO HISTORY	-
11	A-PL-M784-0-0	UNIBUS RECEIVERS M784	E/M
	B-CS-M784-0-1	UNIBUS RECEIVERS M784	E
	K-CO-M784-0-4	X-Y COORDINATE HOLE LOCATION	-
	D-AH-M784-0-5	ASSY/DRILLING HOLE LAYOUT	E/M
	B-MH-M784-0-6	MODULE ECO HISTORY	-
12	A-PL-M785-0-0	UNIBUS DRIVERS & RECEIVERS M785	E/M
	B-CS-M785-0-1	UNIBUS TRANSCEIVERS M785	E
	K-CO-M785-0-4	X-Y COORDINATE HOLE LOCATION	-
	D-AH-M785-0-5	ASSY/DRILLING HOLE LAYOUT	E/M
	B-MH-M785-0-6	MODULE ECO HISTORY	-

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

d i g i t a l

TITLE

DRAWING DIRECTORY

DB11

SIZE	CODE	DOCUMENT NUMBER	REV.
K	DD	DB11-0	A

SHEET 2 OF 3 | EDIT # 0001

MK

FIND #	DRAWING NUMBER	DESCRIPTION	TYPE
13	D-CS-M930-0-1	BUS TERMINATOR	E
	K-CO-M930-0-4	X-Y COORDINATE HOLE LOCATION	-
	D-AH-M930-0-5	ASSY/DRILLING HOLE LAYOUT	E/M
	B-MH-M930-0-6	MODULE ECO HISTORY	-
14	A-PL-M7248-0-0	UNIBUS REPEATER BBSY	E/M
	D-CS-M7248-0-1	UNIBUS REPEATER BBSY	E
	K-CO-M7248-0-4	X-Y COORDINATE HOLE LOCATION	-
	D-AH-M7248-0-5	ASSY/DRILLING HOLE LAYOUT	E/M
	B-MH-M7248-0-6	MODULE ECO HISTORY	-
15	K-PL-7020877-0-0	SHIPPING LIST (DB11)	-

FIND #	DRAWING NUMBER	DESCRIPTION	TYPE

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

d i g i t a l

TITLE

DRAWING DIRECTORY

DB11

SIZE	CODE	DOCUMENT NUMBER	REV.
K	DD	DB11-0	A

SHEET 3 OF 3 | EDIT # 0001

MK

AUTOMATED BY PRILST.40(50) P A R T S L I S T SHEET A1 OF A1

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION M	MP
					VARIATION REVISION LEVEL:		
1	1	D-AD-7009612-0-0	7009612-00		LOGIC DB11-A	1	1
2	2	C-UA-M920-0-0	M920 -00		INTERNAL BUSS CONNECTOR	1	1
3	3	D-IA-7009563-0-0	7009563-00		HARNESS PWR DA11-F/DD11-B	A/R	A/R
4	4	C-IA-7008855-0-0	7008855-00		POWER CABLE SYSTEM UNIT	A/R	A/R
5	5	D-IA-7008909-0-0	7008909-00		CABLE, POWER EXPANDER BOX ;YS	A/R	A/R
6	6		1209856-01		CLIP, MODULE HOLDER W SEPARATO	1	1
7	7		1209856-02		CLIP, MODULE HOLDER W/O SEPARA	1	1
8	8	C-IA-7011960-0-0	7011960-00		SUPPORT HARNESS	1	1
9	9	D-CS-M7212-0-1	M7212-00		ALINES, BUS REPEATER	3	3
10	10	D-UA-M7213-0-0	M7213-00		CARD, REPEATER MASTER	1	1
11	11	A-PL-M783-0-0	M783 -00		UNIBUS DRIVERS	1	1
12	12	A-PL-M784-0-0	M784 -00		UNIBUS RECEIVERS	1	1
13	13	A-PL-M785-0-0	M785 -00		UNIBUS DRIVERS & RECEIVER	4	4
14	14	D-CS-M930-0-1	M930 -00		BUSS TERMINATOR	2	2
15	15	D-CS-M7248-0-1	M7248-00		UNIBUS REPEATER	1	1
16	16	K-PL-7020877-0-0	7020877-01		SHIPPING LIST (DB11)	A/R	A/R
17	17		3613210-00		LABEL, UL. FOIL ADH BACK	1	1

18 NOTE: NOTE 1: ITEM #4 (7008855-00) POWER CABLE USED ON 11/45 - 11/50 CPU WITH S/N LESS THAN 2000.
19 NOTE: NOTE 2: ITEM #5 (7008909-00) POWER CABLE USED ON 11/35 - 11/40 CPU WITH S/N LESS THAN 6000.
20 NOTE: NOTE 2: (CONTINUED) OR H960-D,E WITH S/N LESS THAN 7000, ALSO 11/05,11/10,11/35, 10.5" BOXES.
21 NOTE: NOTE 3: ITEM #3 (7009563-00) UNIT HARNESS USED ON ALL OTHER CPU'S.

REVISION HISTORY			BASIC PART NO: DB11			
ENG	ECO NUMBER	REV	SECTION A OF A	DRN: R. ROBICHAUD	DATE: 17-AUG-83	D I G I T A L
	INITIAL	A	SECTION.VARIATION INDEX [A]M ,MP	CHK'D: J. FALKOWSKI J. Falkowski	DATE: 17 AUG 83 24 OCT 83	TITLE PARTS LIST DB11 OPTION
			[B]	DES.ENG: R. BERGERON R. Berger	DATE: 17-AUG-83 27-OCT-83	DOCUMENT NUMBER
			[C]	RESP.ENG.: M. LAWRENCE A Berger	DATE: 17-AUG-83 27-OCT-83	SIZE: K CODE: PL NUMBER: DB11-0-0 REV: A
			[D]	MFG.ENG.: W. LADNER W. Ladner	DATE: 17-AUG-83 27 OCT 83	RELEASE DATE:
			[E]	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER: K-DD-DB11-0	FILE NAME: MK0934.PLS EDIT #: 0
			[F]			

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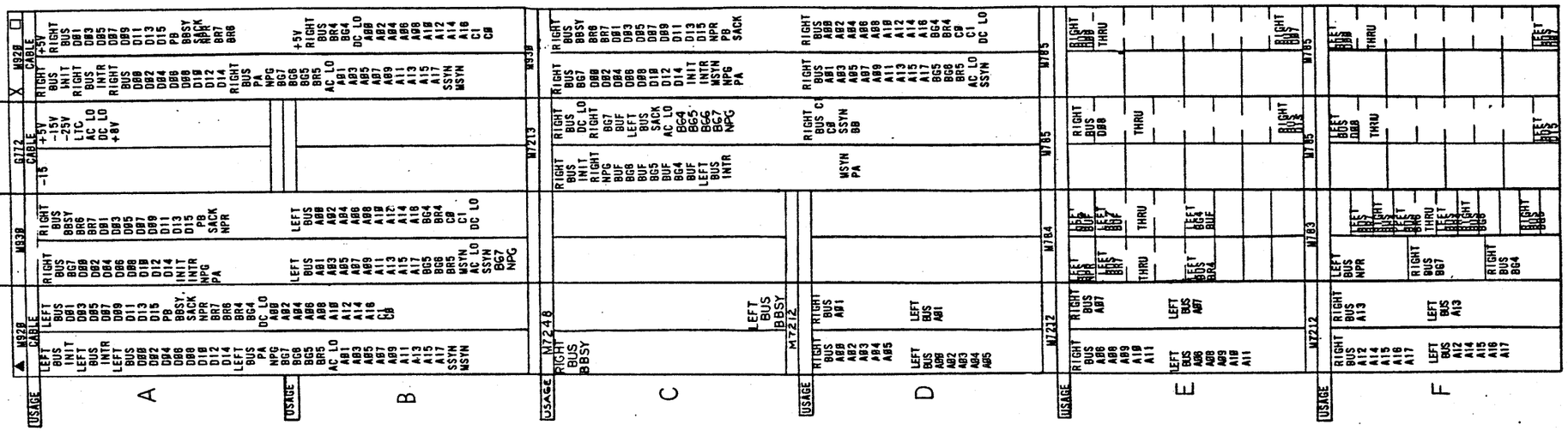
NOTES:

1. ALL OPTIONS CONNECTED TO THE OUTPUT SIDE OF THE DB11-A AND OPERATING FROM THE SAME PHYSICAL POWER SUPPLY AS THE DB11-A MUST HAVE THEIR RESPECTIVE ACLO AND DCLO WIRES REMOVED FROM THE POWER HARNESSES.



□ IF END OF BUS REPLACE M928 WITH M939

X IF LAST UNIT IN BASIC BOX REPLACE M928 WITH BC11A CABLE END WHEN EXPANDING TO PHERIPERAL BOX.

▲ IF FIRST UNIT IN EXPANDER BOX REPLACE M928 WITH BC11A CABLE END

REVISIONS			
CHK	CHANGE NO.	REV	
[illegible]	DB11A-00001	A	[illegible] 6/1/71
			BASTIANI
[illegible]	DB11A-00003	B	M. Bonin 9-13-71
			BASTIANI
[illegible]	DB11A-00012	C	[illegible] 10-28-71
			BASTIANI
[illegible]	DB11A-00017	D	[illegible] 19-FEB-72
			V. BASTIANI
R.C.	DB11A-00001 8	E	[illegible] 3-MAR-72
			J. MCINTYRE 23-JULY-76

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP11		PARTS LIST		

UNLESS OTHERWISE SPECIFIED

UNLESS OTHERWISE SPECIFIED
DIMENSION IN INCHES
TOLERANCES
DECIMALS ± .005 FRACTIONS ± 1/64 ANGLES ± 0°30'
FINAL SURFACE QUALITY ✓
REMOVE BURRS AND BREAK SHARP CORNERS

MATERIAL

FINISH

DRN. J. Bissonnette	DATE 2-22-71	
CHK'D. [illegible]	DATE 3/8/71	
ENG. [illegible]	DATE 3/16/71	
PROJ. ENG. [illegible]	DATE 3/16/71	
PROD. [illegible]	DATE 3/26/71	

NEXT HIGHER ASSY: A-ML-DB11-A-Ø

SCALE

SHEET 1 OF 1

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: MODULE UTILIZATION

SIZE D | CODE MU | NUMBER DB11-A-Ø1 | REV E

DIST

DIGITAL FORM NO. DRD 102A

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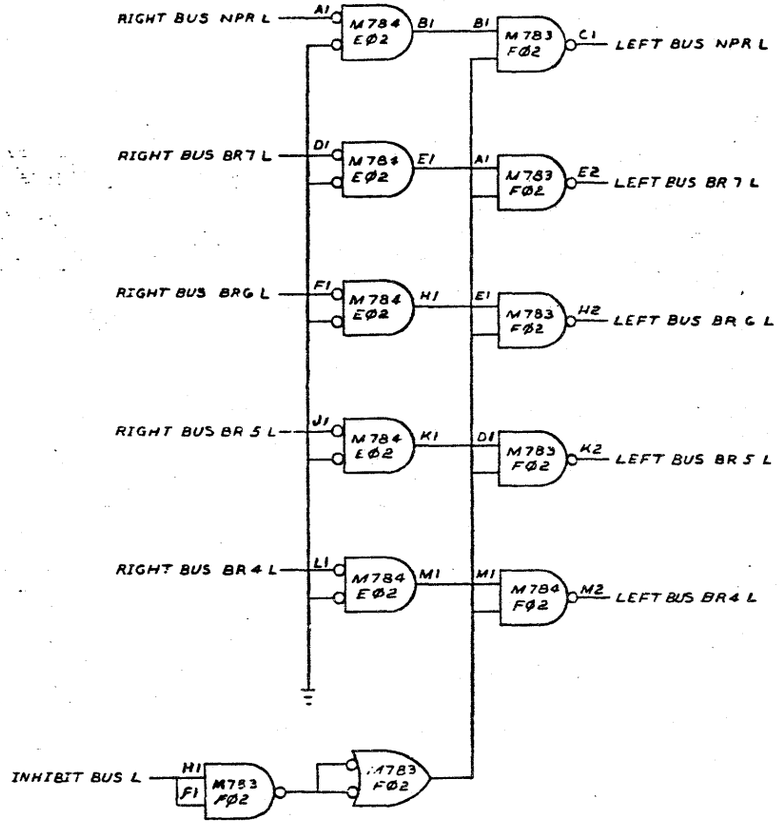
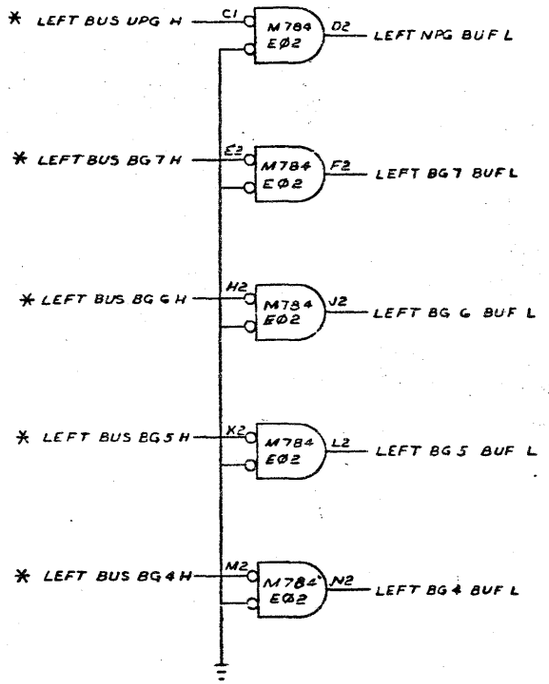
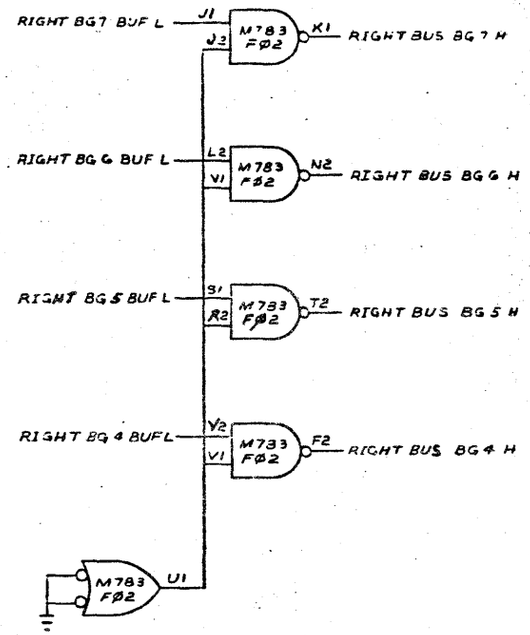
* BUS GRANTS ARE TERMINATED ON THE M7213 MODULE INTO A 390 OHM RESISTOR





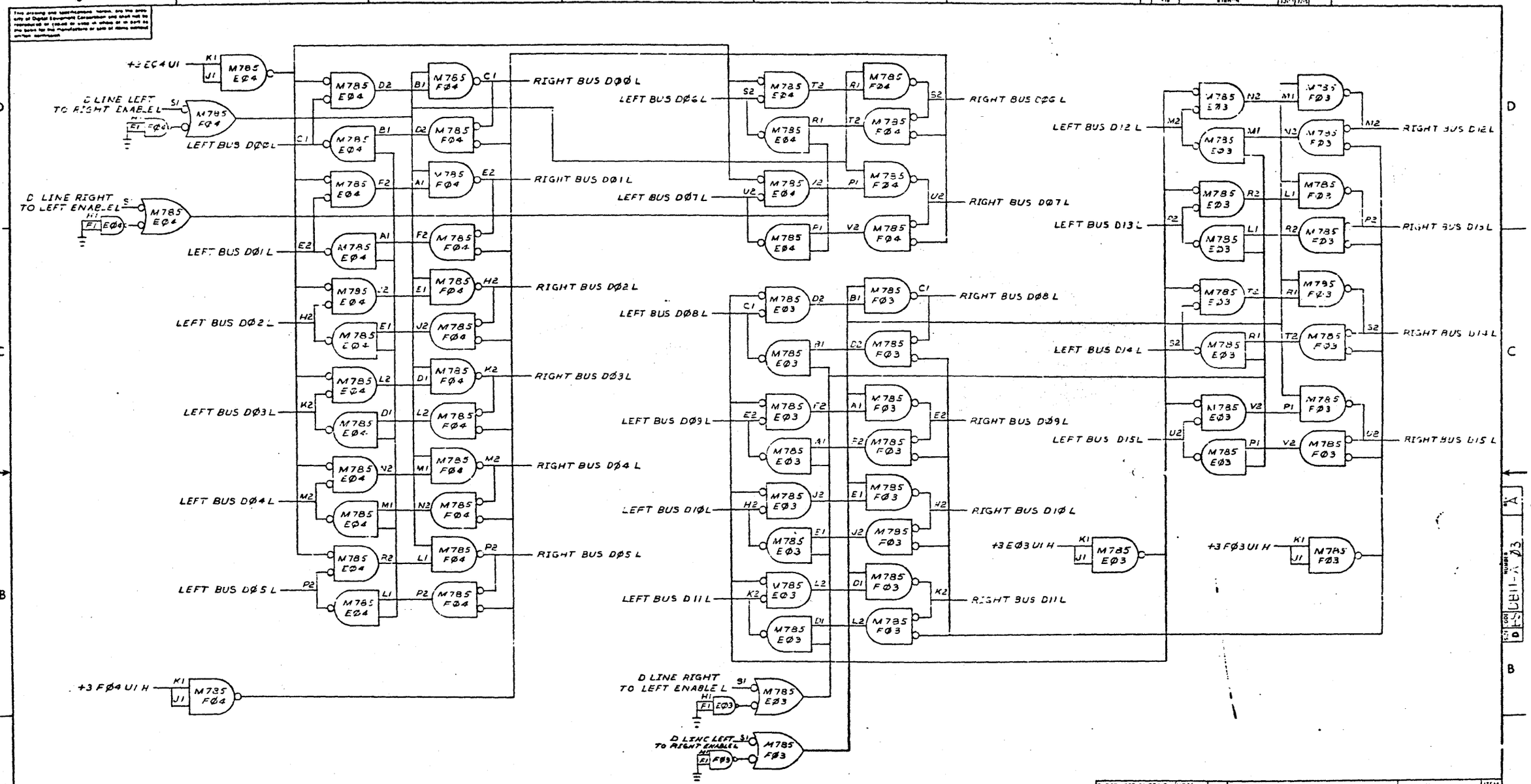


REVISIONS			
CHK	CHANGE NO	REV	
[illegible]	DB11A-00001	A	
BASTIANI	[illegible]		
[illegible]	11911A-00017	B	
V BASTIANI	[illegible]		

FIRST USED ON OPTION/MODULE	QTY.	DESCRIPTION	PART NO. / ITEM NO
PDP 11		PARTS LIST	
UNLESS OTHERWISE SPECIFIED	DRN [illegible]	DATE [illegible]	digital EQUIPMENT CORPORATION
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES DECIMALS FRACTIONS ANGLES ± .005 ± 1/64 ± 0°30' FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D [illegible]	DATE 3/15/71	TITLE BUS REPEATOR DB 11 UNIDIR. LINES
	ENG [illegible]	DATE	
	PROJ ENG [illegible]	DATE	
MATERIAL	PROD [illegible]	DATE 3/15/71	
FINISH	NEXT HIGHER ASSY A-ML-DB11-A-Ø		SIZE D CODE BS NUMBER DB11-A-Ø2 REV B
	SCALE		
	SHEET 1 OF 1		DIST

DEC FORM NO DRC 102A

BSDB11-A-Ø2 B



FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO	ITEM NO
PDP11		PARTS LIST		

UNLESS OTHERWISE SPECIFIED
DIMENSION IN INCHES
TOLERANCES
DECIMALS ± .005 FRACTIONS ± 1/64 ANGLES ± 0° 30'
FINISH SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS

MATERIAL

FINISH

DRN		DATE
CHK'D		DATE
ENG		DATE
PROJ ENG		DATE
PROD		DATE
NEXT HIGHER ASSY	A-ML-DB11-A-0	
SCALE		
SHEET	OF	

digital EQUIPMENT CORPORATION

TITLE: BUS REPEATER DATA LINES

SIZE	CODE	NUMBER	REV
D	BS	DB11-A-03	A

DIST

REV	DESCRIPTION	DATE	APPROVED
A	ECO# [illegible]	[illegible]	[illegible]

BASELINE

CHANGE NO [illegible]

DEC DRAW NO DRD 102A

DB11-A-03

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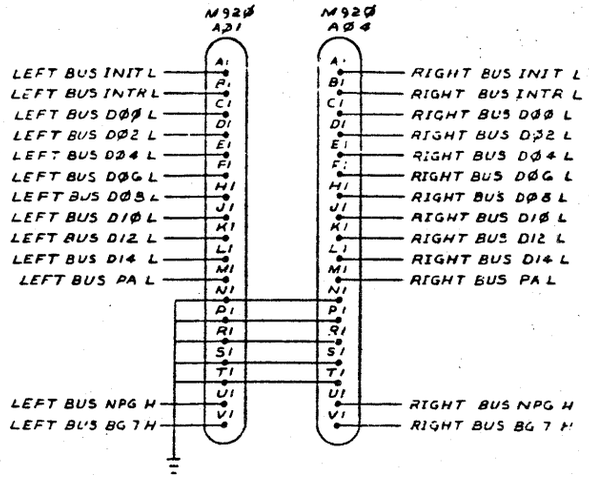

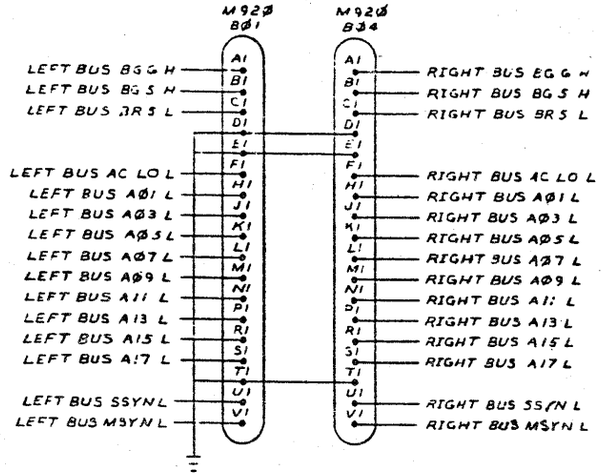

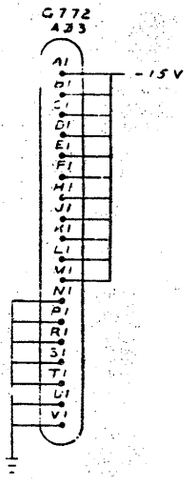

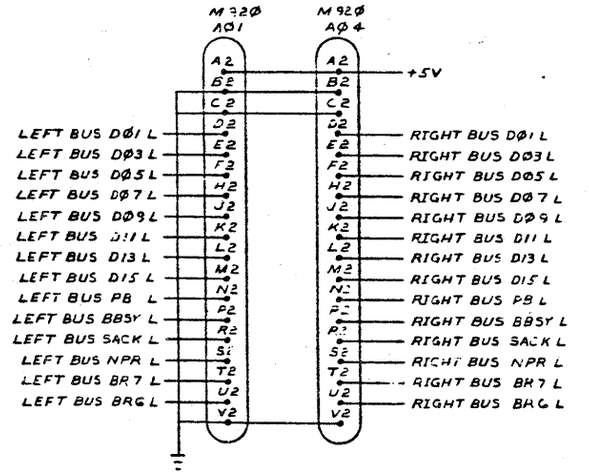

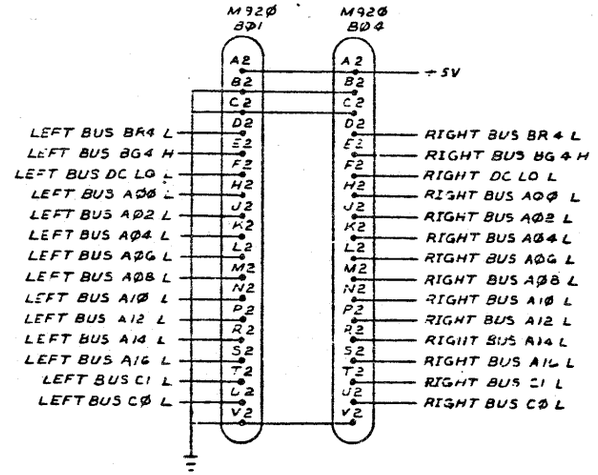

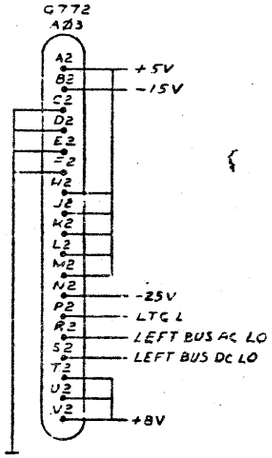

REVISIONS			
ZONE	CHANGE NO		REV
	ECO A-VL-DB11-A-00001		A
	BASTIANI		
	ECO A-VL-DB11-A-00002		B
	BASTIANI		

FIRST USED ON OPT. OR MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP11		PARTS LIST		

UNLESS OTHERWISE SPECIFIED
DIMENSIONS IN INCHES
TOLERANCES
DECIMALS ± .005 FRACTIONS ± 1/64 ANGLES ± 0°30'
FINAL SURFACE QUALITY
REMOVE BURRS AND BREAK SHARP CORNERS

MATERIAL

FINISH

DRN	V. BASTIANI	DATE 2/14/72
CHK'D		DATE 2/14/72
ENG		DATE
PROJ. ENG		DATE
MFG		DATE 2/15/72
NEXT HIGHER ASSY	A-VL-DB11-A-00	
SCALE		
SHEET 1 OF 1		

digital EQUIPMENT CORPORATION

TITLE
BUS AND POWER CONNECTIONS

SIZE	CODE	NUMBER	REV
D	01C	DB11-A-04	B

DST

DB11-A-04 REV B

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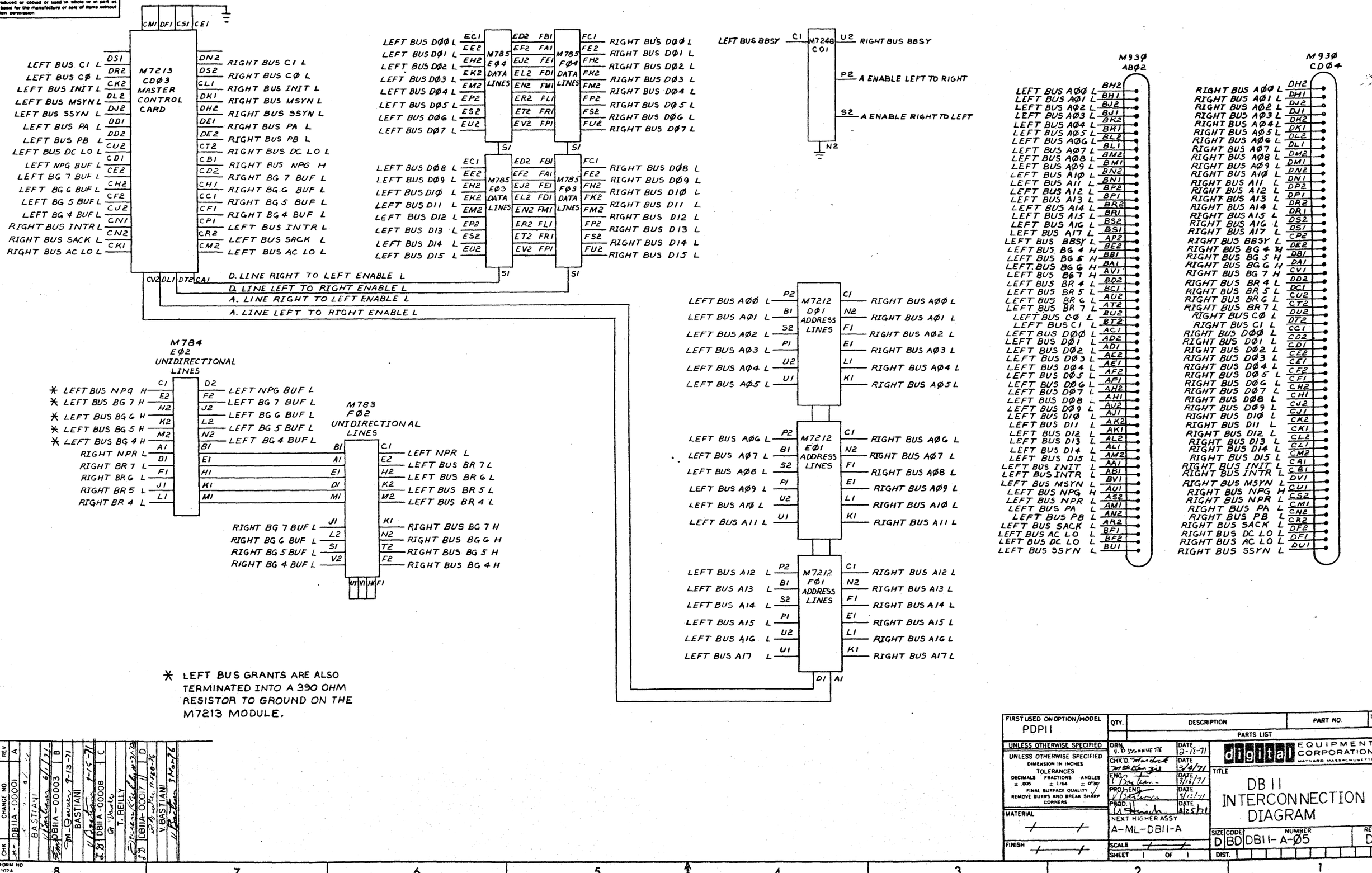

✳ LEFT BUS GRANTS ARE ALSO TERMINATED INTO A 390 OHM RESISTOR TO GROUND ON THE M7213 MODULE.

REVISIONS				
REV	CHANGE NO	CHK		
A	DB11A-00001	JK	BASTIANI	6/11/71
B	DB11A-00003	Tim Gurney	BASTIANI	9-13-71
C	DB11A-00008	T. REILLY	BASTIANI	1-15-71
D	DB11A-00017	Dennis Kelly	V. BASTIANI	3 Mar 72

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP11		PARTS LIST		

UNLESS OTHERWISE SPECIFIED

UNLESS OTHERWISE SPECIFIED
DIMENSION IN INCHES
TOLERANCES
DECIMALS ± .005 FRACTIONS ± 1/64 ANGLES ± 0°30'
FINAL SURFACE QUALITY
REMOVE BURRS AND BREAK SHARP CORNERS

MATERIAL

FINISH

DRN	V.D. BASONE TTE	DATE 2-18-71
CHK'D		DATE 3/9/71
ENG		DATE 3/16/71
PROJ ENG		DATE 3/12/71
PROD		DATE 3/25/71

NEXT HIGHER ASSY
A-ML-DB11-A

SCALE

SHEET 1 OF 1

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

TITLE
DB11 INTERCONNECTION DIAGRAM

SIZE D | CODE BD | NUMBER DB11-A-05 | REV D

DIST.

DEC FORM NO DRD 1107A

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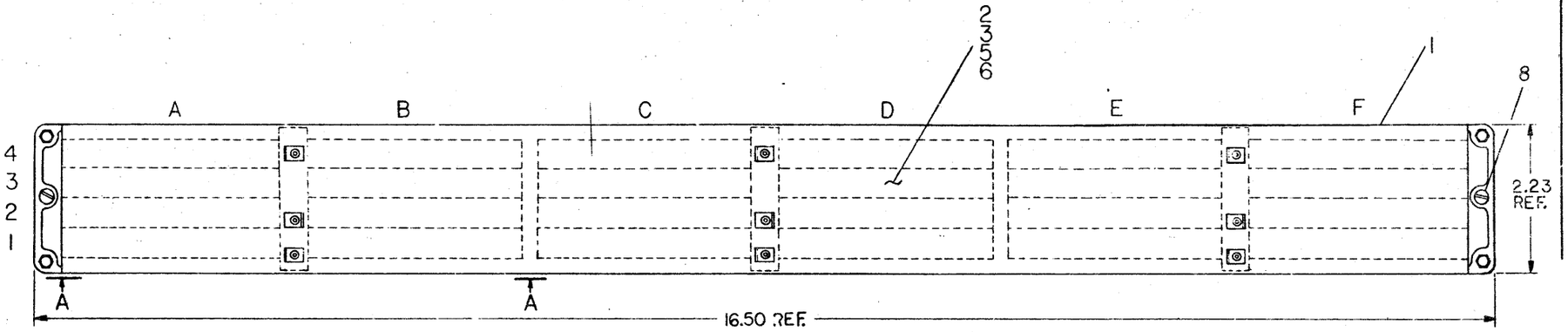
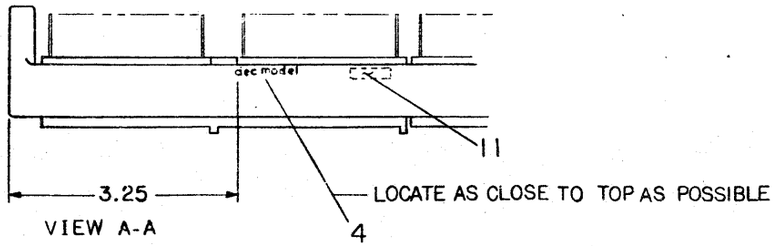
NOTES:
1. ALL VERTICAL HAND WIRING TO RUN OUTSIDE OF CONNECTOR BLOCK
2. WIRE WRAP ONE END OF 24 AWG BLK WIRE TO PIN F02T1 AND SOLDER THE OTHER END TO THE TERMINAL WHICH IS MOUNTED UNDER THE CAPTIVE SCREW.





VIEW A-A

A/R	COMPRESS-O-CARTON	9905016-4	13
REF	PACKAGING INSTRUCTIONS	3700040-0-0	12
1	DECAL, LOGIC ASSY	A-DC-7411881-01	11
2	RING, "O"	9007835-00	10
1	TERMINAL, SOLDER	9008150-00	9
2	SCREW, CAPTIVE	9008157-00	8
REF	AWT REVISION STATUS	A-WT-7009612-0	7
REF	WIRE LIST	K-WL-DBII-A-06	REF
A/R	WIRE 30 AWG TWP BLK/WHT	9107720-09	6
A/R	WIRE 24 AWG SOLID KYNARINS. BLK	9107688-00	5
A/R	LOGIC FRAME DECALS	A-DC-7406371-0-0	4
A/R	WIRE 24 AWG SOLID KYNARINS. RED	9107688-22	3
A/R	WIRE 30 AWG SOLID KYNARINS. YEL	9105740-44	2
1	BACK PLANE ASSY	7009152	1
FIRST USED ON D. TION/MODEL	QTY.	DESCRIPTION	PART NO. / ITEM NO.

PARTS LIST

DBII-A

REVISIONS				
CHK	CHANGE NO	REV		
—	ORIGINATED	—		
2.2	DBIIA-000035	A	3 Chesson 12-17-73	REILLY
2.2	DBIIA-000059	B	T. REILLY	
2.2	DBIIA-000F	C	V. BASTIANI	
2.2	DBIIA-00014	D	V. BASTIANI	
2.2	DBIIA-00016	E	J. MCINTYRE	
2.2	DBIIA-000	F	D. SCODA	
2.2	DBIIA-MK022			

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES
DECIMALS .XXX ± .005, .XX ± .02, .X ± .1
ANGLES ± 0° 30'
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓
MATERIAL
FINISH

DRN. D. Wheeler DATE 8-3-73
CHK'D DATE 9-30-73
ENG. DATE
PROJ. ENG. DATE
PROD. DATE
NEXT HIGHER ASSY
SCALE
SHEET 1 OF 2

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

TITLE
WIRED ASS Y
(DB11-A)

SIZE D | CODE AD | NUMBER 7009612-0-0 | REV. F | DIST.

DEC FORM NO DRD 100-A

MK 1

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WIRE TABLE

ITEM NO.	SIGNAL NAME	FROM PIN	TO PIN	COLOR	REMARKS
3	+5V	AØ3 A2 AØ3 J2 AØ3 K2 AØ3 L2 AØ3 M2	CØ1 A2 EØ1 A2 BØ3 A2 DØ4 A2 FØ4 A2	RED RED	WIRES MUST PHYSICALLY RUN TO THE LEFT OF THE BLOCK AND PINS. WIRES MUST PHYSICALLY RUN TO THE RIGHT OF THE BLOCK AND PINS.
5	GROUND	AØ3 D2 AØ3 C2 AØ3 E2 AØ3 N1 AØ3 R1 AØ3 P1 AØ3 U1 AØ3 S1 AØ3 F2 AØ3 C2 AØ3 V1 AØ3 T1 FØ2 T1	AØ3 E2 AØ3 D2 AØ3 F2 AØ3 P1 AØ3 S1 AØ3 R1 AØ3 V1 AØ3 U1 AØ3 N1 FØ1 T1 CØ1 C2 EØ1 C2 CHASSIS	BLACK BLACK	
~~6~~	~~RIGHT BØ4 GROUND RIGHT BØ4 GROUND~~	~~BØ4 E2 BØ3 C2 DØ4 E2 DØ2 C2~~	~~DØ4 E2 DØ2 C2 FØ2 P2 FØ2 C2~~	~~WHT. BLK. WHT. BLK.~~	~~TWP TWP~~
~~6~~	~~RIGHT BØ4 GROUND RIGHT BØ4 GROUND~~	~~BØ4 B1 DØ3 C2 DØ4 B1 DØ1 C2~~	~~DØ4 B1 DØ1 C2 FØ2 T2 FØ2 T1~~	~~WHT. BLK. WHT. BLK.~~	~~TWP TWP~~
~~6~~	~~RIGHT BØ4 GROUND RIGHT BØ4 GROUND~~	~~BØ4 A1 BØ2 C2 BØ4 A1 CØ1 T1~~	~~CØ4 A1 CØ1 T1 FØ2 R2 FØ2 P1~~	~~WHT. BLK. WHT. BLK.~~	~~TWP TWP~~
~~6~~	~~RIGHT BØ4 GROUND RIGHT BØ4 GROUND~~	~~AØ4 V1 AØ4 T1 CØ4 V1 FØ2 T1~~	~~CØ4 V1 CØ2 T1 FØ2 K1 FØ2 C2~~	~~WHT. BLK. WHT. BLK.~~	~~TWP TWP~~
2	LEFT ACLO	WIRE WRAP PIN AT ACLO LUG	BØ1 F1	YEL.	
2	LEFT DCLO	WIRE WRAP PIN AT DCLO LUG	BØ1 F2	YEL.	

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
DBII-A		PARTS LIST		

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES

DECIMALS	ANGLES
.XXX ± .005 .XX ± .02 .X ± .1	±0° 30'

REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓

MATERIAL —

FINISH —

DRN.	R.VOWLES	DATE 8-3-73
CHK'D		DATE 10-30-73
ENG.		DATE 10-31-73
PROJ. ENG.		DATE 10-31-73
PROD.		DATE 10-31-73
NEXT HIGHER ASSY.	—	
SCALE	—	
SHEET 2 OF 2		

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

TITLE: WIRED ASS'Y DBIIA

SIZE D | CODE AD | NUMBER 7009612-0-0 | REV F | DIST.

REV.	REVISIONS	CHANGE NO.	CHK

BRUNING 40-107 15948

DEC FORM NO DRD 100-A

MK1

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AUTOMATIC WIRE TESTER (AWT) REVISION STATUS

DRAWING NUMBER	INIT REL																				
	TII	H	J	K	L	L	M	N	N	P											
K-WL-DBII-A-06	H	H	J	J	K	K	L	M	N	P											
D-AD-7009612-0-0	B	C	C	D	D	E	E	E	E	F											
D-CS-5410094-0-1	E	E	E	E	E	E	E	E	E	E											

REV T
NUMBER 7009612-0
SIZE A CODE WT

REVISIONS																					
CHK	—	VB																			
CHANGE NO.	DBIIA-00014	ORIGINATED	DBIIA-00015	DBIIA-00016	DBIIA-00017	DBIIA-00018	DBIIA-00019	DBII-A-MKØ2Ø	7009612-MK001	DBIIA-MK021	DBIIA-MK022										
REV.	H		J	K	L	M	N	P	R	S	T										

DRN.		DATE 4-2-75
CHK'D		DATE 4-2-75
ENG.		DATE 4-7-75
PROJ. ENG.		DATE 4-7-75
PROD.		DATE 4-7-75
FIRST USED ON		
SCALE		
SHEET 1 OF 1		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE

DBII-A

AWT REVISION STATUS

SIZE	CODE	NUMBER	REV.
A	WT	7009612-0	T

DIST.

DRA 123

DEC 16-(325)-1097-N174

MK

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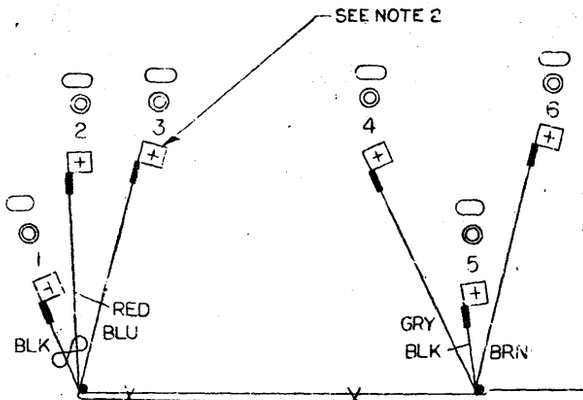
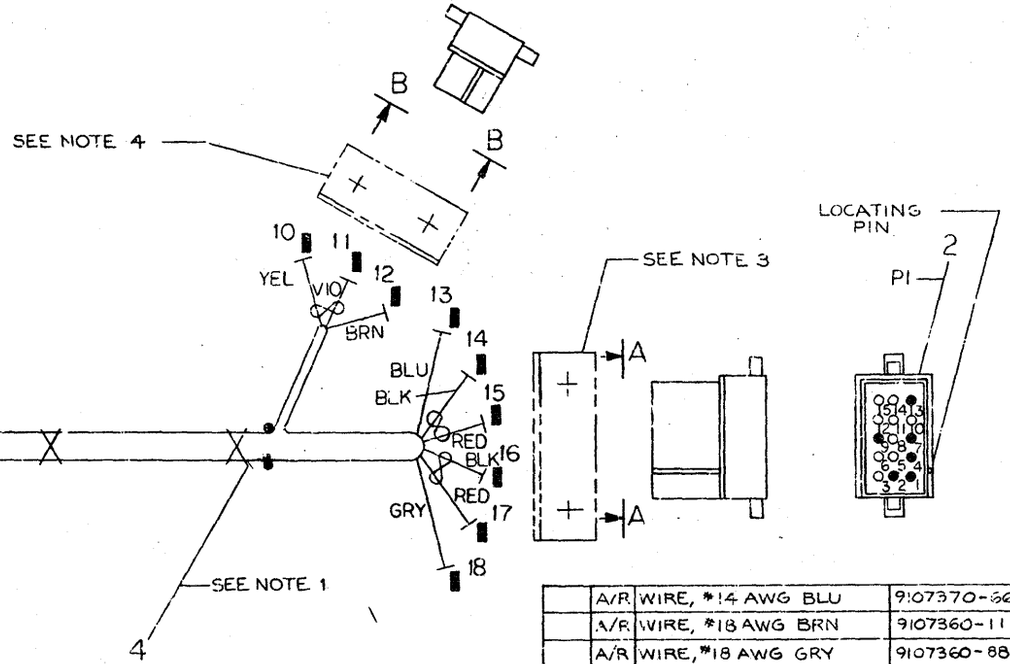
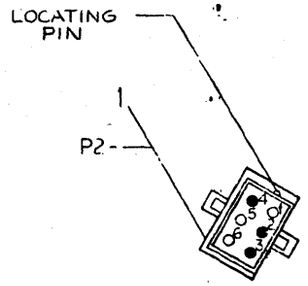
DIGITAL EQUIP. CORP.

WIRE TABLE

ITEM NO	DESCRIPTION AWG	COLOR	FROM POINT	FROM CONNECTION	FROM TERM	TO POINT	TO CONNECTION	TO TERM	REMARKS
7	14 TWP	RED	7		5,6	17	P1-1	3	+5V
		BLK	5			16	P1-7		GND
9	18 AWG	GRY	4			18	P1-2		+15
7	14 TWP	RED	2			15	P1-4		+5
		BLK	1			14	P1-9		GND
11	14 AWG	BLU	3			13	P1-13		-15
10	18 AWG	BRN	6			12	P2-2		LINE CLOCK
8	18 TWP	VIO	8			11	P2-3		DC LO
		YEL	7		5,6	10	P2-4	3	AC LO







NOTES:

1. USE TIE WRAPS (X) ITEM 4 APPROXIMATELY EVERY THREE (3) INCHES WHEN NECESSARY, AND AT EVERY BREAKOUT POINT.
2. ATTACH MALE FASTON DEC 9008219-0 WITH #4 WOOD SCREWS (9 PLACES).
3. USE CONN. BRKT C-MD-9305761-H15-0 MOUNT WITH #6 WOOD SCREWS. USE MATING CONN. 1209350-15.
4. USE CONN. BRKT C-MD-9305761-H6-0 MOUNT WITH #6 WOOD SCREWS. USE MATING CONN. 1209350-06.
5. DOT (●) INDICATES NAIL LOCATIONS FOR ASSEMBLY USE ONLY. COVER NAILS WITH SHRINK TUBING TO PREVENT CUTTING HARNESS.

SYM	QTY.	DESCRIPTION	PART NO.	ITEM NO.
	A/R.	WIRE, #14 AWG BLU	9107370-66	11
	A/R.	WIRE, #18 AWG BRN	9107360-11	10
	A/R	WIRE, #18 AWG GRY	9107360-88	9
	A/R	WIRE, #18 TWP YEL/VIO	9107430-47	8
	A/R	WIRE, #14 TWP BLK/RED	9107440-02	7
⬭	A/R	TUBING, SHRINK	9107305-02	6
◎	9	CONN., SOLDERLESS	9009262-0	5
X	A/R	WRAP, TIE	9007031	4
▮	9	PIN, MALE	1209378-01	3
	1	HOUSING, CONN. 15 PIN	1209351-15	2
	1	HOUSING, CONN. 6 PIN	1209351-06	1

PARTS LIST

FIRST USED ON OPT/MOD

DO NOT REDUCE
SCALE
0 IN. 6 IN. 12 IN.
DO NOT BUILD FROM REDUCED PRINT

REVISIONS			
CHK	CHANGE NO.	REV.	
H. KWAN 11 Oct. 76	7009563-00001	A	

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES
DECIMALS .XXX ± .005, .XX ± .02, X ± .1 ANGLES ± 0° 30'
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓
MATERIAL: SEE PARTS LIST
FINISH

DRN. Carl McCoy DATE 9-26-73
CHK'D DATE
ENG. DATE
PROJ. ENG. DATE
PROD. DATE 10/11/73
NEXT HIGHER ASSY.
SCALE 1/1
SHEET 1 OF 1

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

TITLE
POWER HARNESS
DA11-F/DD11-B

SIZE	CODE	NUMBER	REV.
D	IA	7009563-0-0	A

DIST.

DEC FORM NO ORD 10C-A

7009563-0-0 A
D IA

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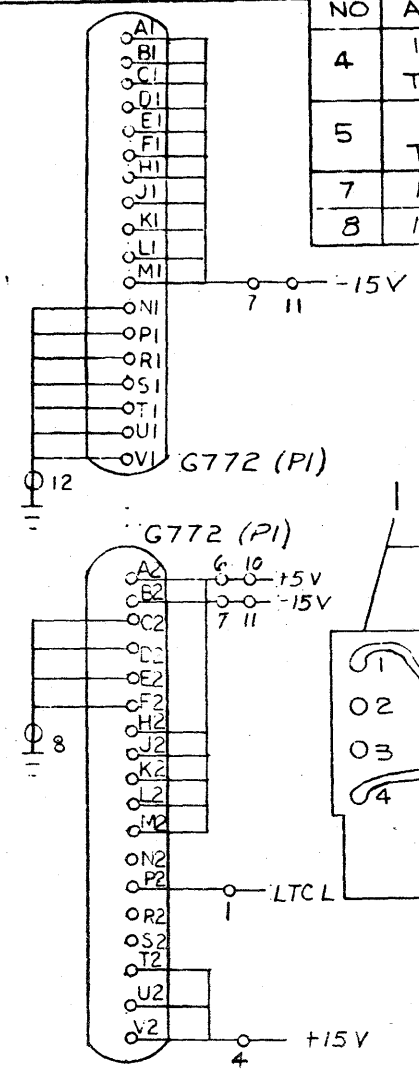
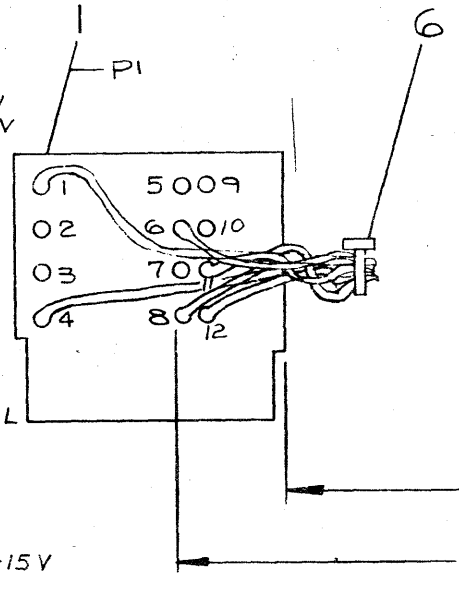
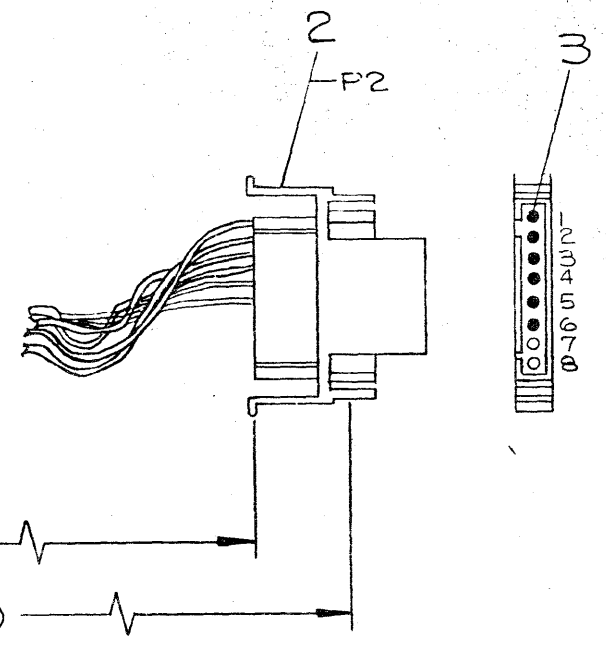
WIRE TABLE

ITEM NO	DESCRIPTION AWG	DESCRIPTION COLOR	FROM CONNECTION	TO CONNECTION	SIGNALS
4	14	BLK	P1-8	P2-1	GND
	TWP	RED	P1-6	P2-2	+5V
5	14	BLK	P1-12	P2-3	GND
	TWP	BLU	P1-11	P2-4	-15V
7	14	GRY	P1-4	P2-5	+15V
8	18	BRN	P1-1	P2-6	LTCL







LEGEND

NUMBER	VARIATION	
	DIM "X"	DIM "Y" REF
7008855-1J	20 ± 1 IN	22 INCHES
7008855-2J	26 ± 1 IN	28 INCHES

REVISIONS			
CHK	CHANGE NO.	REV.	
	7008855-00001	A	5/2/72
	7008855-00002	B	5/4/72
SWANSON	11/45-00024	C	5/23/72
SWANSON	11/45-00037	D	6/9/72
SWANSON			11/15/72

ITEM NO.	QTY.	DESCRIPTION	PART NO.
8	A/R	WIRE #18 AWG BRN	9107360-11
7	A/R	WIRE #14 AWG GRY	9107370-88
6	A/R	TIE WRAP #SST-1.5M	9007880
5	A/R	WIRE, #14 TWP BLK/BLU	9107440-06
4	A/R	WIRE, #14 TWP BLK/RED	9107440-02
3	6	MATE-N-LOCK TERM	1209378-01
2	1	MATE-N-LOCK HOUSING	1209340-01
1	1	POWER CONNECTOR	G772

PARTS LIST

FIRST USED ON OPTION/MODEL: 11/45

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES

DECIMALS	ANGLES
XXX = 005 XX = 02 X = 1	±0° 30'

REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓

MATERIAL —//—

FINISH —//—

DRN. K Cook	DATE 3/3/72	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS
CHK'D.	DATE 3/21/72	
ENG.	DATE 3/21/72	
PROJ. ENG.	DATE 3-21-72	
PROD.	DATE 3-[illegible]	

TITLE: POWER CABLE, SYSTEM UNIT

NEXT HIGHER ASSY. D-UA-11/45-0-0

SCALE —//—

SHEET 1 OF 1

SIZE	CODE	NUMBER	REV.
C	IA	7008855-0-0	D

DIST.

DEC FORM NO. DRC 100-A

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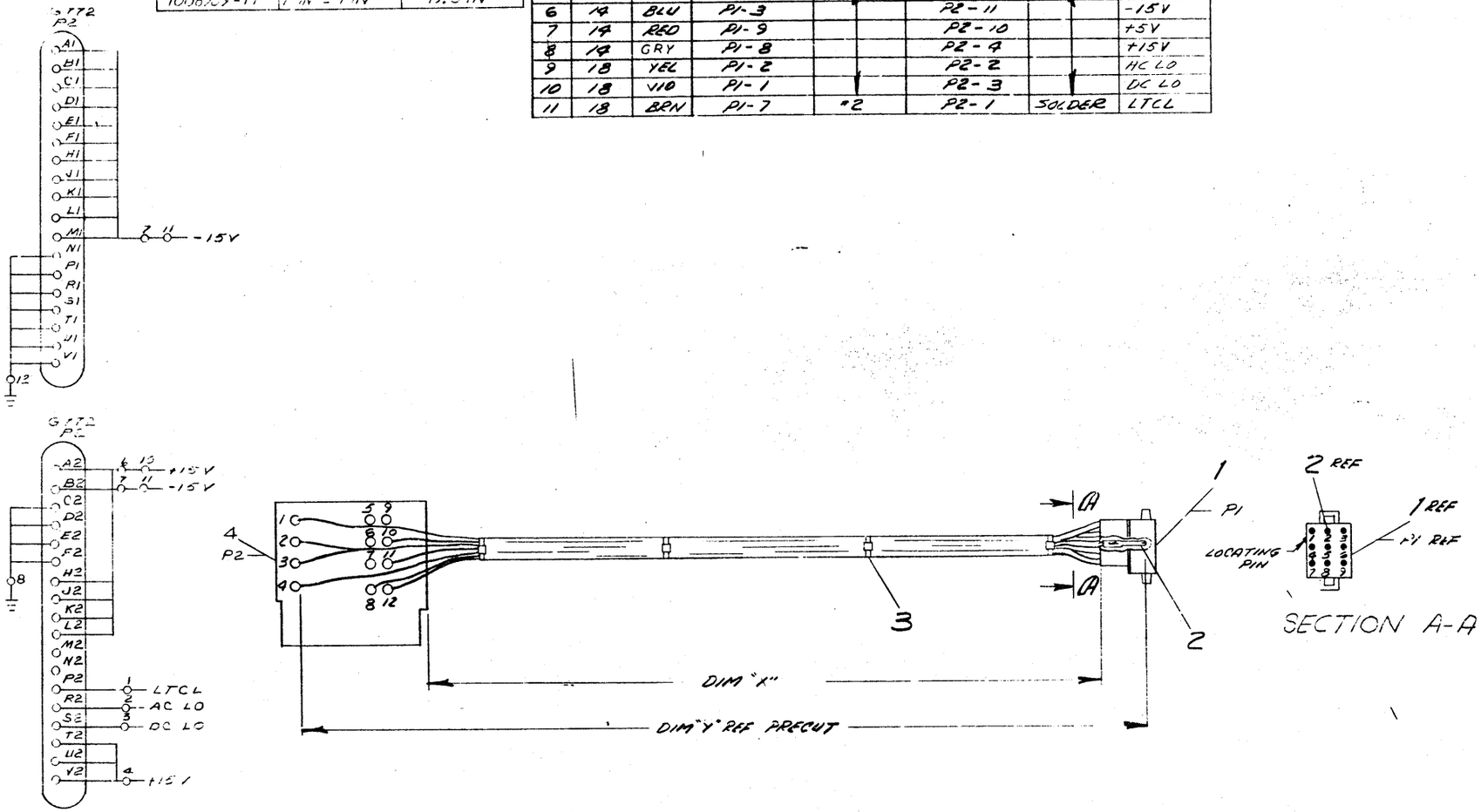
LEGEND

NUMBER	VARIATION	
	DIM "X"	DIM "Y"
7008909-11	11 IN ± .5 IN	13.5 IN
7008909-17	17 IN ± 1 IN	19.5 IN

WIRE TABLE

ITEM NO	DESCRIPTION AWG	DESCRIPTION COL 2	FROM CONNECTION	FROM WITH	TO CONNECTION	TO WITH	SIGNALS
5	19	BLK	P1-4	#2	P2-12	SOLDER	GND
5	19	BLK	P1-5		P2-8		-GND
6	19	BLU	P1-3		P2-11		-15V
7	19	RED	P1-9		P2-10		+5V
8	19	GRY	P1-8		P2-9		+15V
9	18	YEL	P1-2		P2-2		HC LO
10	18	VIO	P1-1		P2-3		DC LO
11	18	BRN	P1-7	#2	P2-1	SOLDER	LTCL



A/R	WIRE #18 AWG BRN	9107360-11	11
A/R	WIRE #18 AWG VIO	9107360-77	10
A/R	WIRE #18 AWG YEL	9107360-44	9
A/R	WIRE #19 AWG GRY	9107370-88	8
A/R	WIRE #19 AWG RED	9107370-22	7
A/R	WIRE #19 AWG BLU	9107370-66	6
A/R	WIRE #19 AWG BLK	9107370-00	5
1	POWER CONNECTOR G772A	G772A	4
A/R	TIE WRAP 3ST-1.5M	3007880	3
8	MATE-N-LOCK TERM (MALE)	1209378-01	2
1	CONN MATE-N-LOCK (9 PIN)	1209351-09	1

QTY.	DESCRIPTION	PART NO	ITEM NO.

FIRST USED ON OPTION MODEL: 1145

PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES

DECIMALS: XXX ± .005, XX ± .02, X ± .1 — ANGLES: ± 0° 30'

REMOVE BURRS AND BREAK SHARP CORNERS. SURFACE QUALITY ✓

MATERIAL —

FINISH —

DWN — DATE 8-11-72

CHK — DATE 8/11/72

ENG — DATE 8-12-72

PROJ. ENG. — DATE 8-11-72

PROD — DATE —

NEXT HIGHER ASSY.
D-UA-M763-D-Z
D-UA-M760-E-23

SCALE 1/1

SHEET 1 OF 1

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE
CABLE, POWER
EXPANDER BOX 1145

SIZE D | CODE IA | NUMBER 7008909-0-0 | REV

DIST

REVISIONS	REV	CHK	CHANGE NO.
	A		7008909-00
	B		11960-00005

SULLER 5-22-72

SAMANSON 8/23/72

DEC-M3M-NO
DRD 100-A

7008909-0-0

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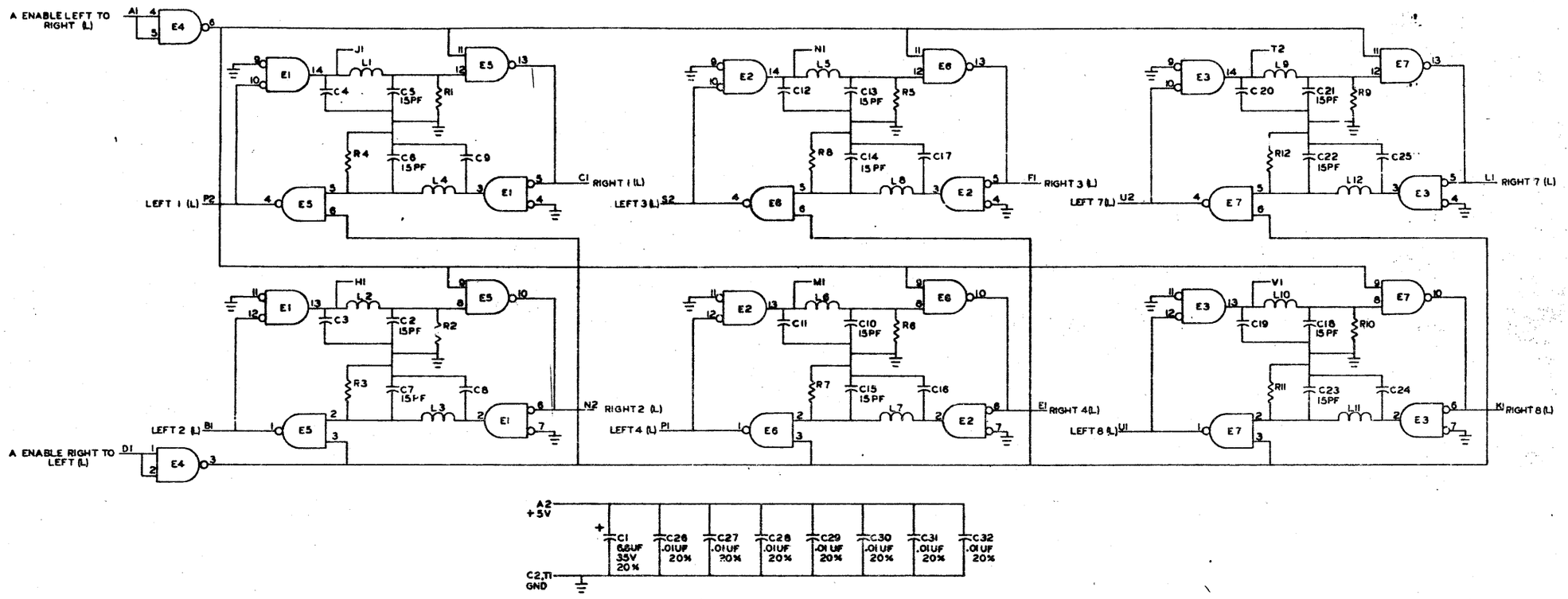

UNLESS OTHERWISE SPECIFIED
CAPACITORS ARE 100 PF, 100V, 5%
RESISTORS ARE 1K, 1/4 W, 5%
INDUCTORS ARE 47 UH
PIN 7 = GND
PIN 14 = +5V
ON EACH IC EXCEPT DEC8640
PIN 1 = GND ON DEC 8640
PIN 8 = +5V ON DEC 8640
E1, E2, E3 = DEC8640
E4 = DEC 74H00
E5 E6 E7 = DEC8881

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

EQUIPMENT CORPORATION — MAYNARD, MASSACHUSETTS

TITLE: BUS REPEATER A LINES
SIZE D | CODE CS | NUMBER M7212-0-1 | REV D
PRINTED CIRCUIT REV. | REVISED

M7212-0-1 REV D | SIZE D | CODE CS

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LEFT BUS NPG AV1 · LEFT BG7 BA1 · LEFT BG6 BB1 · LEFT BG5 BC1 · LEFT BG4 BM1
R15 390 · R16 390 · R17 390 · R18 390 · R19 390

INHIBIT BUS(H) BF1
LEFT BUS C01(L) BS1
LEFT BUF C01 BM2
L1, 47µH, 10% · C38 100Pf · C37 15Pf · R11 1K
L2, 47µH, 10% · R12 1K · C39 15Pf · C40 100Pf
BN2 RIGHT BUS C01(L)

RIGHT BUS INTR(L) AN1
INHIBIT BUS H BF1
R2 300 · C30 560Pf
AP1 LEFT BUS INTR (L)

INHIBIT INIT H AM1
LEFT BUS INIT(L) AK2
AL1 RIGHT BUS INIT (L)
AJ1 B INIT (H)

AR2 LEFT BUS SACK (L)
L5, 47µH, 10% · C48 15Pf · R20 1K
RIGHT BUS SACK(L) AN2
AP2 RIGHT BUF SACK (H)
C47 100Pf

AA2, BA2 +5V
C1-C25 .01µf, 20% · C27 6.8µf 35V 20% · C28 6.8µf 35V, 20%
AT1, BT1, AC2, BC2 AU1

A ENABLE LEFT TO RIGHT AV2
A ENABLE RIGHT TO LEFT BL1

R8 150 10% · C34 1000Pf
BH2 RIGHT BUS SSYN
BJ2 LEFT BUS SSYN (L)

L4, 47µH, 10% · R14 1K · C43 15Pf · C44 100Pf
BS2 RIGHT BUS C00 (L). BP2 LEFT BUF C00
L3, 47µH, 10% · C42 100Pf · C41 15Pf · R13 1K
BR2 LEFT BUS C00 (L)

C33 1000 Pf · R7 150 10%

LEFT BUS MSYN(L) BL2
D3 1N5711 · R9 300 · C35 1200Pf
BK1 RIGHT BUS MSYN (L)
C36 1200Pf · R10 300 · D4 1N5711
BK2 · BH1 LEFT BUF MSYN
BF2 · BJ1 RIGHT BUF MSYN

LEFT NPG BUF AD1 · RIGHT BUS NPG (H) AB1
LEFT BG7 BUF (L) AE2 · RIGHT BG7 BUF (L) AD2
D LINE RIGHT TO LEFT ENABLE (L) AA1
LEFT BG6 BUF (L) AH2 · RIGHT BG6 BUF (L) AH1
D LINE LEFT TO RIGHT ENABLE (L) BT2
LEFT BG5 BUF (L) AF2 · RIGHT BG5 BUF (L) AC1
LEFT BG4 BUF (L) AJ2 · RIGHT BG4 BUF (L) AF1
RIGHT BUF ACLO AL2 · INHIBIT ACLO (H) AE1
RIGHT BUS ACLO AK1 · LEFT BUS AC LO AM2

BE1 RIGHT BUS PA
BD1 LEFT BUS PA
AT2 RIGHT BUS DC LO
D2 D600 · R4 300 · C46 .1µf 10%
D1 D600 · R3 300 · C45 .15µf 10%
AS1 INHIBIT DC LO (H)
AR1 LEFT BUF DC LO
AU2 LEFT BUS DC LO
BD2 LEFT BUS PB
BE2 RIGHT BUS PB

NOTE: UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 5%. CAPACITORS ARE 100V, 5%. IC—PIN 1=GND, PIN 8=+5V ON DEC 8640. ALL OTHERS, PIN 7=GND, PIN 14 = +5V.

REVISIONS			
CHK	CHANGE NO.	REV.	
RH	REDRAWN MK015	S	04-DEC-1979 R. HARRINGTON

DRN.	3/13/79	FIRST USED ON M7213
CHK'D	7DEC79	digital
ENG.		TITLE BUS REPEATER CARD
PROJ. ENG.		
PROD.		
NEXT HIGHER ASSY.		
D-UA-M7213-0-0		SIZE D · CODE CS · NUMBER M7213-0-1 · REV. S
SCALE NONE		
SHEET 1 OF 1		DIST.

SIZE	CODE	NUMBER	REV.
B	CS	M783-0-1	

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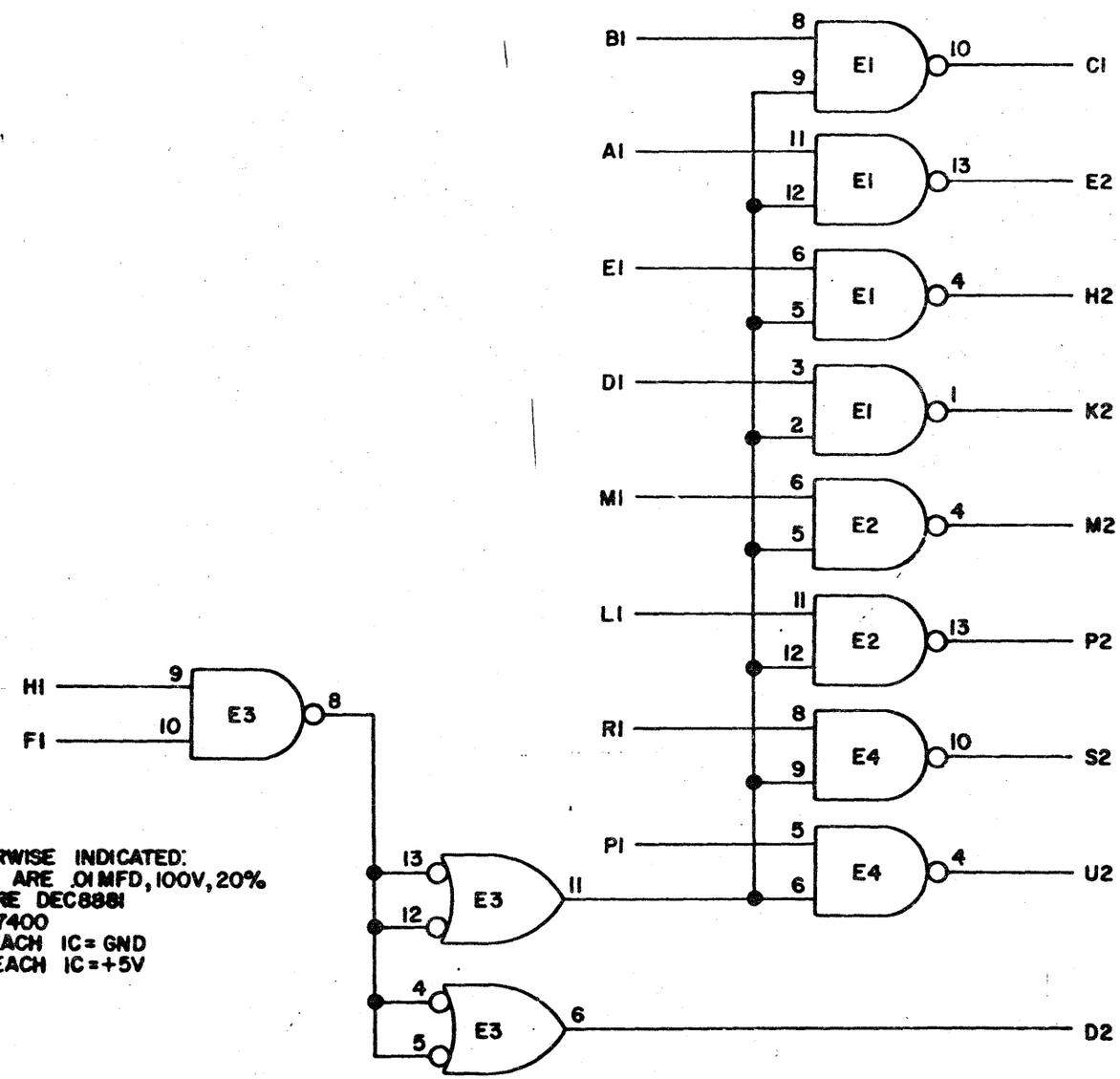
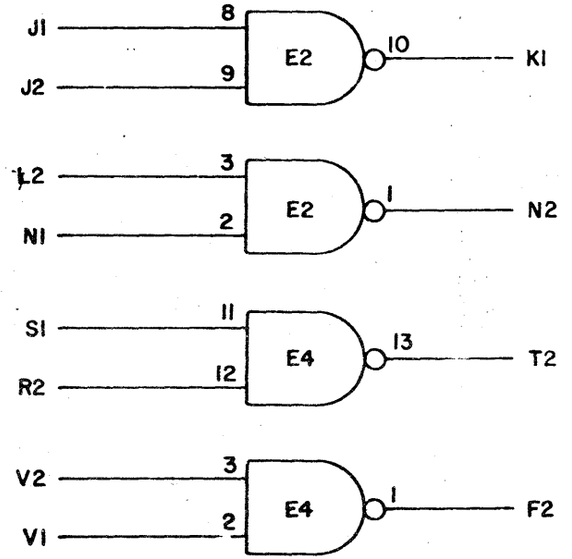
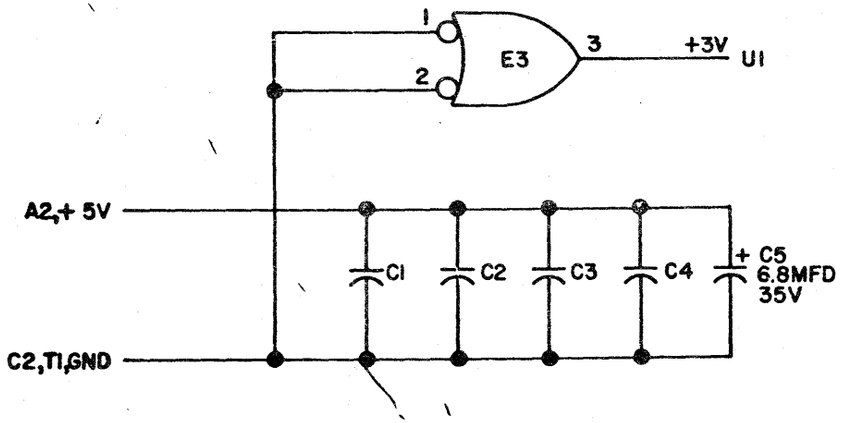


UNLESS OTHERWISE INDICATED:
CAPACITORS ARE .01 MFD, 100V, 20%
E1,E2,E4 ARE DEC8881
E3 IS DEC7400
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V





REVISIONS							
CHK	CHG NO.	REV.					
			DRN. A. Patey	DATE 11-21-69			
			CHK'D T. McGrath	DATE 1-7-70			
			ENG V. E. Jones	DATE 2/05/70			
			PROD.	DATE			

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
UNIBUS DRIVERS M783

SIZE	CODE	NUMBER	REV.
B	CS	M783-0-1	

PRINTED CIRCUIT REV. A B

DEC FORM NO. DRB 102

5

DIST: 324, 434, 435³

PINK

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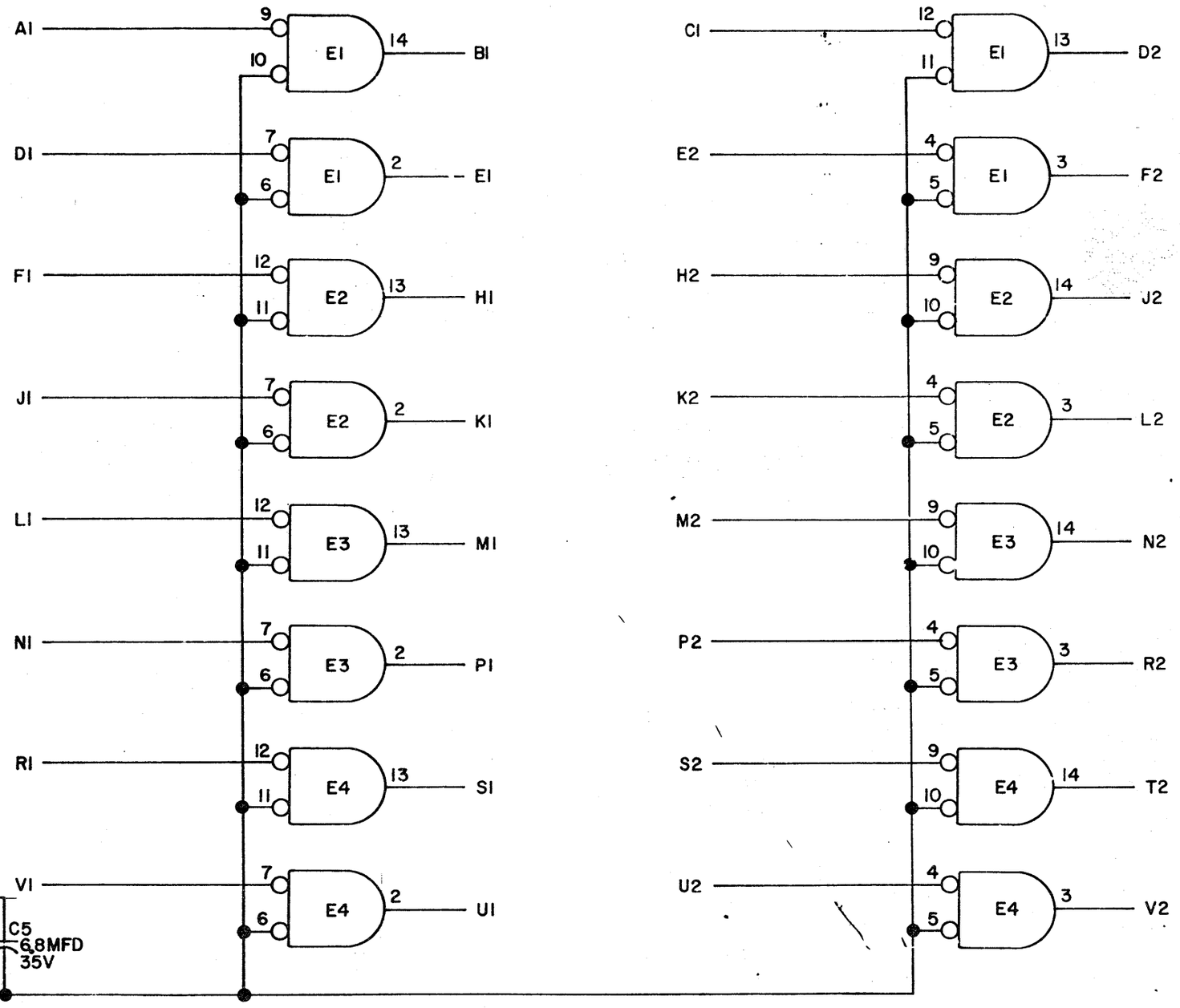
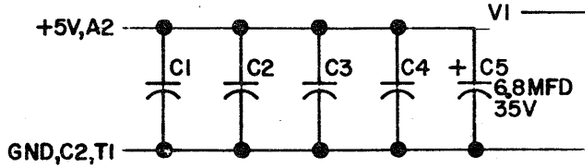
NOTE:
FOR YA ONLY
ICs ARE DEC 384.



UNLESS OTHERWISE INDICATED:
CAPACITORS ARE .01MFD, 100V, 20%
IC'S ARE DEC 8640
PIN 1 ON EACH IC=GND
PIN 8 ON EACH IC=+5V



REVISIONS						
CHK	CHG NO.	REV.				
L.S.	00001	A				
25	00002	B				
	00003	C	L.LONDON			
			K. London 11/69			
	00004	D	P.Jones 6-7-70			
SC	00005	E				
			K. London 12/1/70			

DRN.	C. Kilvey	DATE	11-1869
CHK'D.	T. Antonucki	DATE	1-7-70
ENG.	P.E. Janson	DATE	3/11/70
PROD.		DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE UNIBUS RECEIVERS
M784

SIZE	CODE	NUMBER	REV
B	CS	M784-0-1	E

PRINTED CIRCUIT REV. A B C

DEC FORM NO. DRB 102

MS641-P4

DIST. 324, 434, 423

Per P.

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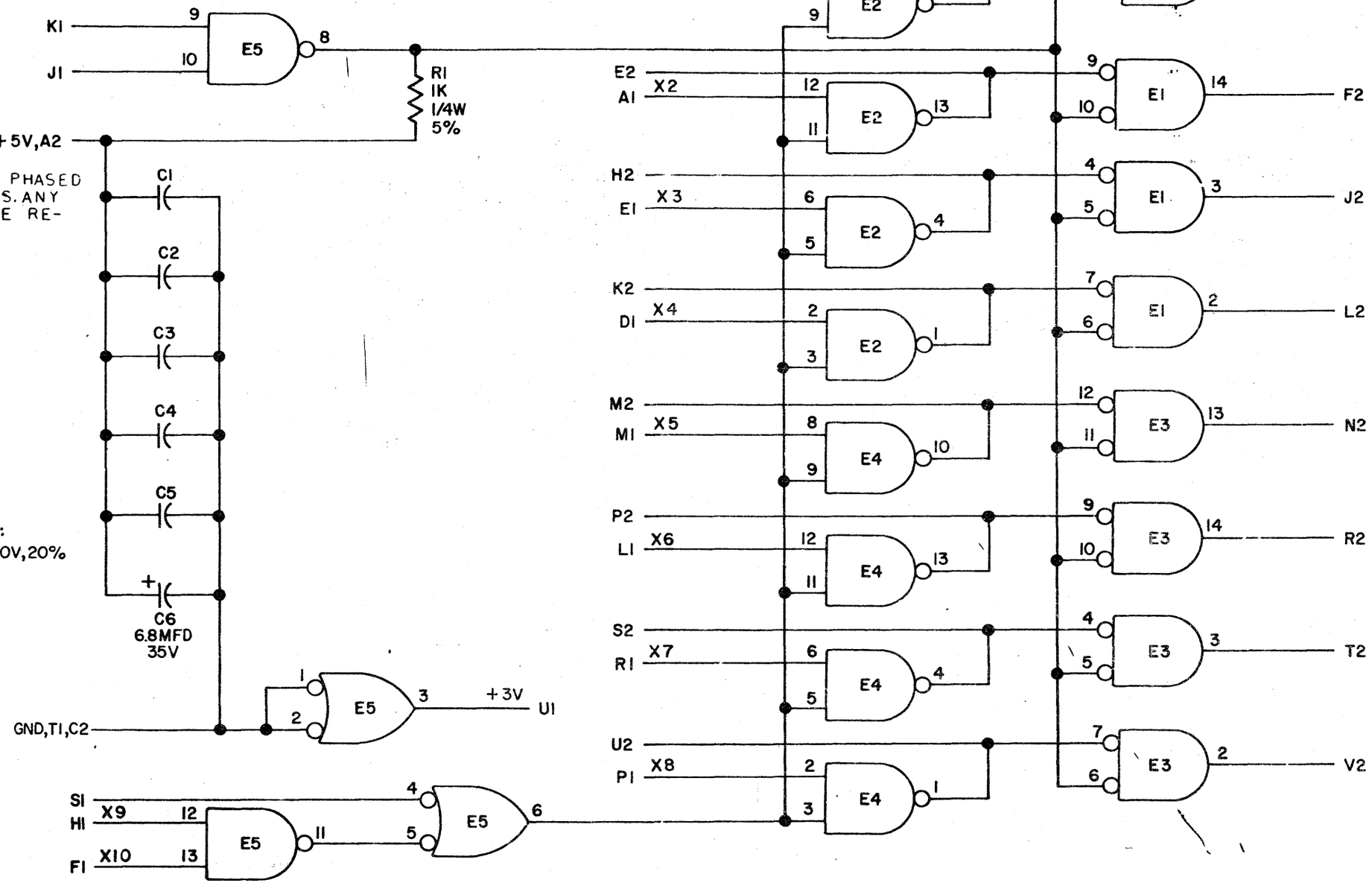

REVISIONS			
REV.	A	B	C	D
CHG NO.	00001	00003	00004	ML005
CHK				

DRN.	A. Peters	DATE 11-1969
CHK'D	T. Nitkowski	DATE 1-7-70
ENG	P.E. Jansen	DATE 3/11/70
PROD	G. Mac	DATE 3/11/70

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE UNIBUS TRANCEIVERS M785

SIZE	CODE	NUMBER	REV.
B	CS	M785-0-1	D

PRINTED CIRCUIT REV. A B C

DEC FORM NO. DRB 102

M8640-F3 M785

5 PINK DIST. 324,434,4353

SIZE B | CODE CS | NUMBER M785-0-1 | REV D

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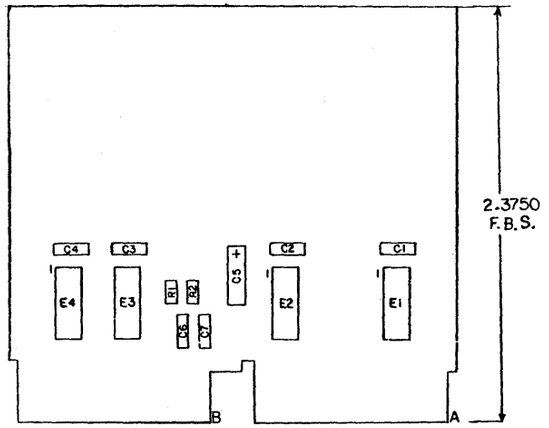
NOTES:



QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
REF		X-Y COORDINATE HOLE LOCATION	K-CO-M930-0-4	1
REF		ASSY/DRILLING HOLE LAYOUT	D-AH-M930-0-5	2
REF		MODULE ECO HISTORY	B-MH-M930-0-6	3
1		ETCHED CIRCUIT BOARD	5008696	4
4	C1 THRU C4	CAP .22 µF 50V CER	1010274-01	5
2	C6, C7	CAP 1000pF 250V 20% DISC	1000043	6
1	C5	CAP 39µF 10V 10% TANT	1000076	7
2	R1, R2	RES 383Ω 1/4W 1%	1305125	8
2	E1, E4	28 RES DIVIDER NETWORK	1312628-00	9
2	E2, E3	25 RES DIVIDER NETWORK	1312628-01	10

PARTS LIST

IC TYPE	GND	+5V

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

IC PIN LOCATIONS

FIRST USED ON OPTION MODEL: M930

ETCH BOARD REV. E-P3 F

REV	CHANGE NO.	ORIGINATED	CHK
F	ML007 DOC 11-79	K. SARGENT 10-3-75	
E		7.11.75	

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

SEMICONDUCTOR CONVERSION CHART

DRN.	J. CARTER	DATE 7-9-75
CHK'D		DATE 7-16-75
ENG.		DATE
PROJ. ENG.		DATE
PROD.		DATE

NEXT HIGHER ASSY

SCALE —

SHEET 1 OF 2

digital

TITLE: BUS TERMINATOR

SIZE D | CODE CS | NUMBER M930-0-1 | REV. F

DIST.

SIZE CODE DCS M930-0-1 REV F

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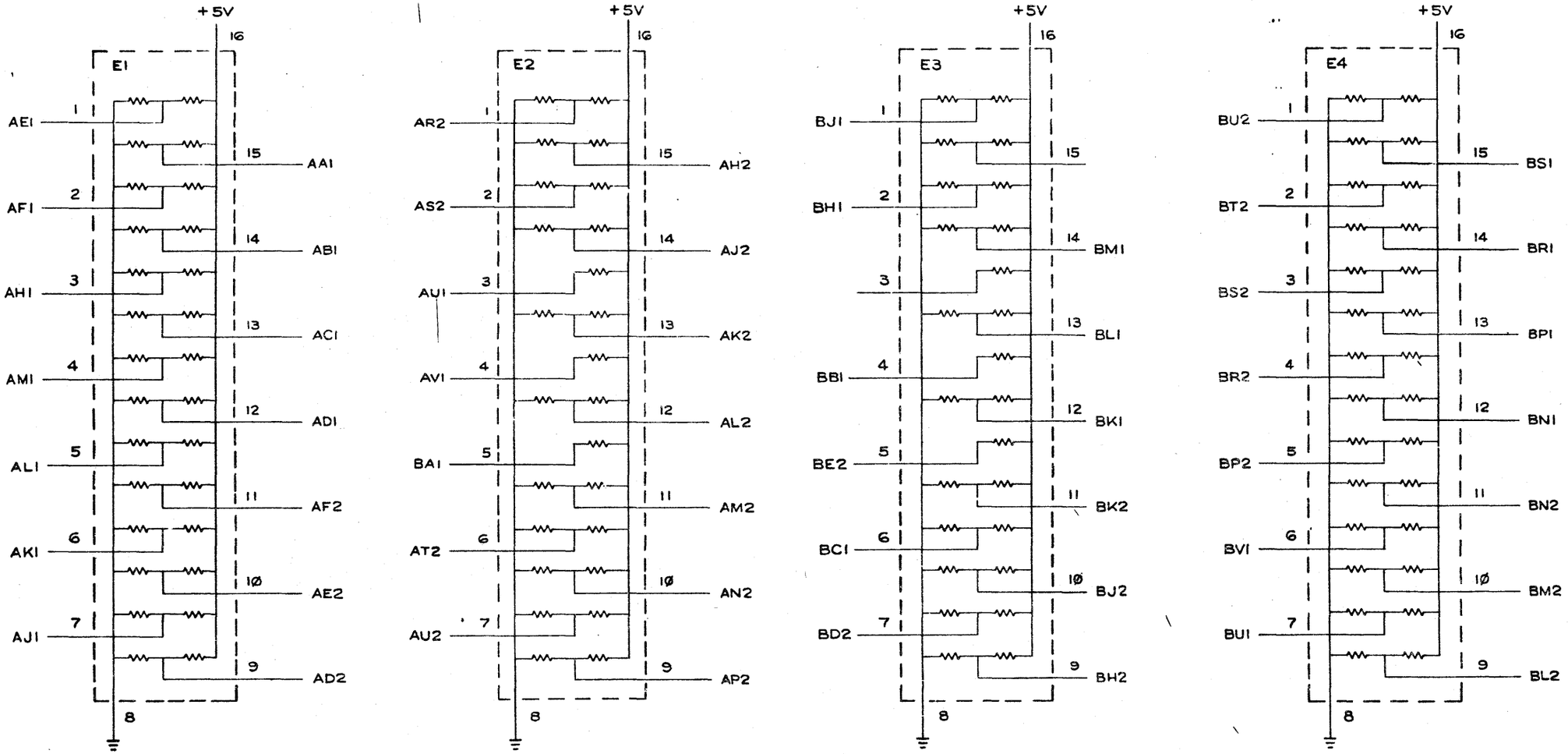

REVISIONS		
CHK	CHANGE NO.	REV

TITLE	SIZE	CODE	NUMBER	REV.
BUS TERMINATOR	D	CS	M930-0-1	F
SCALE —	SHEET 2 OF 2		DIST.	

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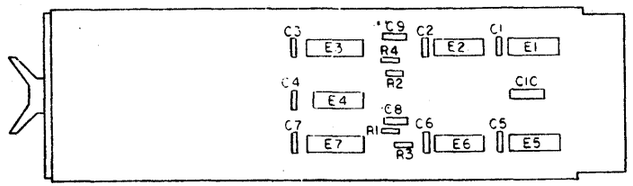
PARTS REFERENCE

ITEM NO	DRAWING REFERENCE	DESCRIPTION	PART NUMBER	QUANTITY
1	E5	IC DEC 7404	1905686	1
2	E2,E6	IC DEC 314	1909704	2
3	E1	IC DEC 8681	1909705	1
4	E4	IC DEC 7405	1909930	1
5	E3,E7	IC DEC 74123	1910436	2
6	C10	CAP 6.8 UF 35V 20% S.TANT	1000067	1
7	C1-C7	CAP .01 UF 100V 20% DISC	1001610	7
8	C8,C9	CAP 27PF 100V 5% MICA	1001739	2
9	R2,R3	RES 5.6 K 1/4W 5%	1301874	2
10	R1,R4	RES 5.11K 1/8W 1%MF	1304854	2
11		SPLIT LUGS	9CC5735	8

COMPONENT PLACEMENT

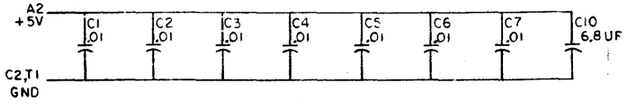


NOTES:

1. DETAILS ON COMPONENTS ARE NOTED IN THE PARTS REFERENCE, PLACEMENT IS NOTED IN THE COMPONENT PLACEMENT DIAGRAM. CAPACITORS WITHOUT NOTED VALUES ARE .01 MFD.

2 GND AND +5V ARE USUALLY PIN 7 AND PIN 14, RESPECTIVELY. EXCEPTIONS ARE:

IC TYPE	GND	+5V
DEC 74123	PIN 8	PIN 16
DEC 314	PIN 1	PIN 8



REVISIONS				
REV	CHANGE NO	DATE	CHK	
C	17746	4-MAY-71	[illegible]	

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
		PARTS LIST		

UNLESS OTHERWISE SPECIFIED

UNLESS OTHERWISE SPECIFIED
DIMENSION IN INCHES
TOLERANCES
DECIMALS ± .005 FRACTIONS ± 1/64 ANGLES ± 0°30'
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS

MATERIAL: SEE PARTS LIST

FINISH

DRN.	[illegible]	DATE 11-MAY-71
CHK'D	[illegible]	DATE 11-MAY-71
ENG.	[illegible]	DATE 11-MAY-71
PROJ. ENG.	[illegible]	DATE 11-MAY-71
PROD.	[illegible]	DATE 11-MAY-71

SEE FINISHED ASSY

SCALE 1/1

SHEET 1 OF 2

digital EQUIPMENT CORPORATION
MAYNARD MASSACHUSETTS

TITLE: UNIBUS REPEATER BBSY

SIZE D | CODE CS | NUMBER M7248-0-1 | REV C

DIST.

SIZE	CODE	NUMBER	REV
D	CS	M7248-0-1	C

REV	C
NUMBER	M7248 0-1
SIZE CODE	D CS

LSC FORM NO SHD 10A

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LEFT BUS BBSY (H) N2

7404 E5 13 12 P2 A ENABLE LEFT TO RIGHT (L)

RIGHT BUS BBSY (L) I12

RIGHT BUS BBSY(H) T2

INHIBIT (H) N2

LEFT BUS BBSY(L) C1

3:4 E2

8881 E1

8881 E1

3:4 E6

7404 E5 1 2 S2 A ENABLE RIGHT TO LEFT (L)

7405 E4

7405 E4

7405 E4

7405 E4

74123 E7 — C8 27 PF — R1 5.11K 1/8W — +5V +3V

74123 E7 — R3 5.6K — +5V +3V

74123 E3 — C9 27 PF — R4 5.11K 1/8 W — +5V +3V

74123 E3 — R2 5.6K — +5V +3V

8881 E1 11 12 13 C1 LEFT BUS BBSY (L)

8881 E1 9 10

REVISIONS
REV | CHANGE NO | CHK

FIRST USED ON OPTION /MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
		PARTS LIST		

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES

DECIMALS	ANGLES
.XXX = .005 .XX = .02 .X = .1	±0° 30'

REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓

MATERIAL —

FINISH —

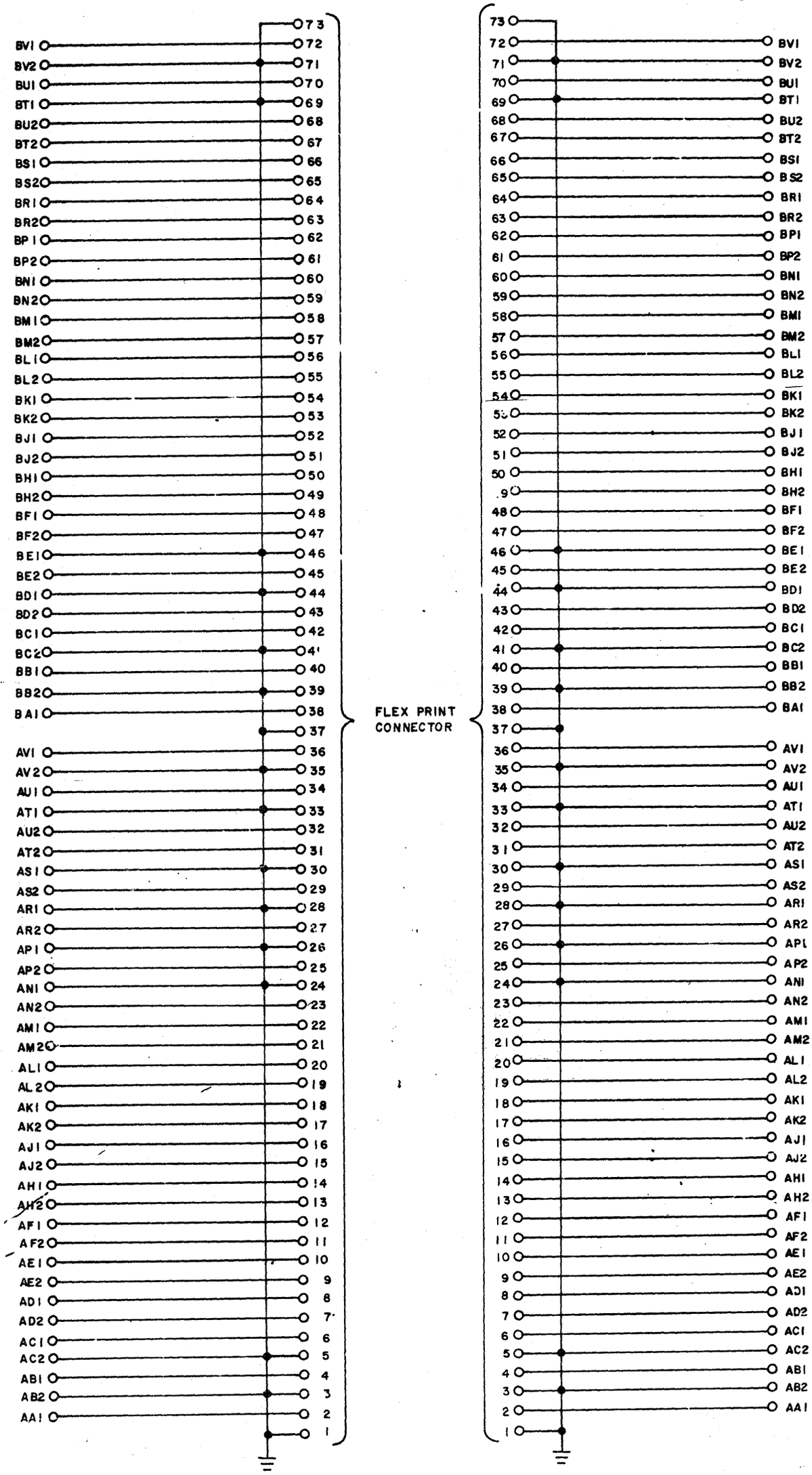
DRN. E Hampton	DATE 11/22/71	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS
CHK'D.	DATE 11/71	
ENG.	DATE	
PROJ. ENG.	DATE	
PROD.	DATE 11-2-71	
NEXT HIGHER ASSY.		
SCALE —	SHEET 2 OF 2	

TITLE: UNIBUS REPEATER BBSY

SIZE D | CODE | NUMBER CSM7248-0-1 | REV. C | DIST.

DEC FORM NO ORD 102-B

REVISIONS		
CHK	CHG NO.	REV.
	00001	A
	00002	B
	00004	C



FLEX PRINT CONNECTOR

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DEC FORM NO. D86-LO2

	DRN	DATE
	CHK'D	DATE
	ENG	DATE
	PROJ	DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE INTERNAL BUS CONNECTOR M920

SIZE	CODE	NUMBER	REV.
C	CS	M920-0-1	C

PRINTED CIRCUIT REV. B

DIST. 324,434,1353

PINK

SIZE	CODE	NUMBER	REV.
C	CS	M920-0-1	C

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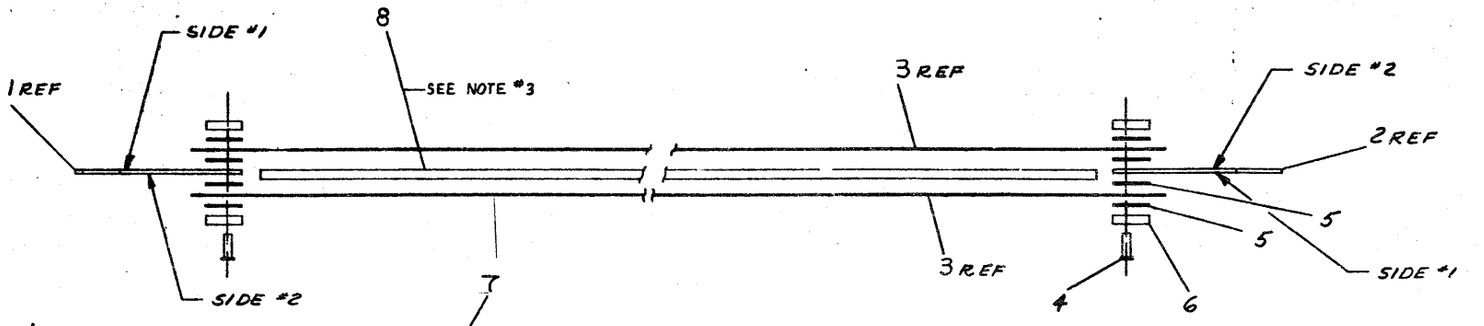

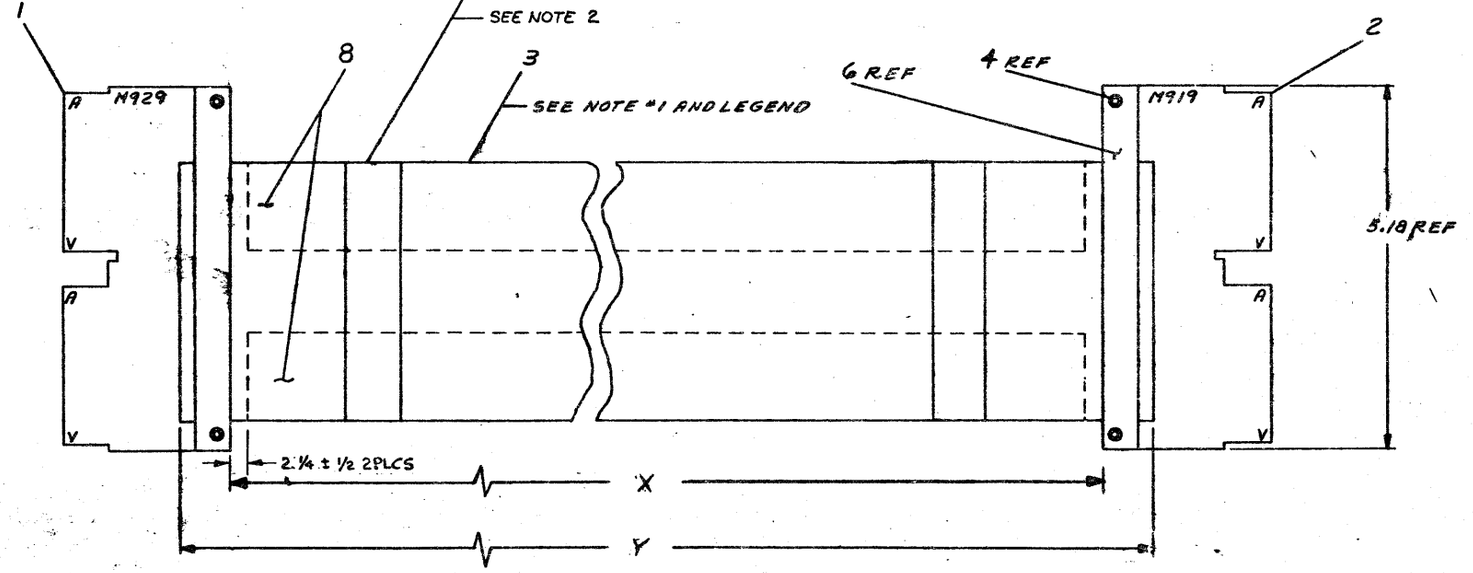

NOTES:

1. VARIATIONS AND LENGTHS SHOWN IN LEGEND ARE STANDARD. OTHER THAN STANDARD VARIATIONS WILL BE SPECIFIED BY ALPHANUMERIC DESIGNATION. FOR LENGTHS OTHER THAN FOOT INCREMENTS FROM ONE (1) FOOT THRU NINE (9) FEET, ELEVEN (11) INCHES.
   - A = 1" G = 7"
   - B = 2" H = 8"
   - C = 3" J = 9"
   - D = 4" K = 10"
   - E = 5" L = 11"
   - F = 6"

   EXAMPLE: BC11A - 3D = 3'4".
   LENGTHS WILL BE IN FOOT INCREMENTS FROM TEN (10) FEET ON, AND WILL BE SPECIFIED BY THE CORRESPONDING NUMERICAL DESIGNATION.
   EXAMPLE: BC11A -11 = 11 FEET.
   THE TOLERANCE ON DIMENSION "Y" WILL BE 2% OF THE FOOT INCREMENT.
2. FLEXPRINTS TO BE BOUND TOGETHER BY WRAPPING WITH ELECTRICAL TAPE (ITEM 7) EVERY 18 INCHES.
3. INSTALL 2 PIECES OF FOAM TAPE (ITEM 8) BETWEEN FLEX PRINT CABLES AS SHOWN.

QTY.	DESCRIPTION	PART NO.	ITEM NO.
N/R	GRAY FOAM - 3" WIDE	90088881-01	8
N/R	ELECTRICAL TAPE	9009260	7
4	CLAMP, CABLE	C-SC1207X8-00	6
A/R	TAPE #4032 1/4 W X 3 11/16 LG	90078341-01	5
2	EYELET GS-4-11 STIMSON	9006750.	4
2	CABLE, FLEXPRINT	1700002-01	3
1	EXT. BUS CONN	A-PL-M919-0-0	2
1	BUS CONN	A-PL-M929-0-0	1

PARTS LIST

REVISIONS				
CHK	CHANGE NO.	REV.		
	BC11A-00001	A	BLASI	5-8-70
	BC11A-00002	B	BLASI	5-21-71
	BC11A-00003	C	BLASI	8-3-72
	BC11A-00004	D	BLASI	11-1-72
	BC11A-00005	E	D. POTTER	5-12-73
	BC11A-00006	F	C.R. BLASI	11-1-73
	BC11A-00007	H	D. VONADA	11-7-75

FIRST USED ON OPTION/MODEL: PDP11

DO NOT SCALE DRAWING
UNLESS OTHERWISE SPECIFIED
DIMENSION IN INCHES
TOLERANCES
DECIMALS ± .005 FRACTIONS ± 1/64 ANGLES ± 0°30'
FINAL SURFACE QUALITY 125
REMOVE BURRS AND BREAK SHARP CORNERS
MATERIAL
FINISH

		DATE
DRN	Blasi	5-4-67
CHK'D	R. Bass	11/13/67
ENG	C Blasi	11/13/67
PROJ ENG	C Blasi	11/13/67
APPD	Marshall	11/24/67

NEXT HIGHER ASSY: D-UA-11/20-0-0

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: CABLE ASSY (BC11A)

SIZE: D | CODE: UA | NUMBER: BC11A-0-0 | REV: H

SCALE: 1/1 | SHEET 1 OF 2 | DIST.

DEC FORM NO. DRD 100

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LEGEND

NUMBER	DIM "X" VARIATION	DIM "Y" (PRECUT) REF.
BC11A-02	2'0" ± 0.5"	2'1.5"
BC11A-03	3'0" ± 1.0"	3'1.5"
BC11A-04	4'0" ± 1.0"	4'1.5"
BC11A-05	5'0" ± 1.0"	5'1.5"
BC11A-06	6'0" ± 1.0"	6'1.5"
BC11A-07	7'0" ± 2.0"	7'1.5"
BC11A-08	8'0" ± 2.0"	8'1.5"
BC11A-09	9.0" ± 2.0"	9'1.5"
BC11A-10	10'0" ± 2.0"	10'1.5"
BC11A-11	11'0" ± 3.0"	11'1.5"
BC11A-12	12'0" ± 3.0"	12'1.5"
BC11A-13	13'0" ± 3.0"	13'1.5"
BC11A-14	14'0" ± 3.0"	14'1.5"
BC11A-15	15'0" ± 4.0"	15'1.5"
BC11A-16	16'0" ± 4.0"	16'1.5"
BC11A-17	17'0" ± 4.0"	17'1.5"
BC11A-18	18'0" ± 4.0"	18'1.5"
BC11A-19	19'0" ± 5.0"	19'1.5"
BC11A-20	20'0" ± 5.0"	20'1.5"
BC11A-21	21'0" ± 5.0"	21'1.5"
BC11A-22	22'0" ± 5.0"	22'1.5"
BC11A-23	23'0" ± 6.0"	23'1.5"
BC11A-24	24'0" ± 6.0"	24'1.5"
BC11A-25	25'0" ± 6.0"	25'1.5"
BC11A-0F	0'6" ± 0.5"	0'7.5"
BC11A-8F	8'6" ± 2.0"	8'7.5"

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
CABLE ASSY (BC11A)	D	UA	BC11A-0-0	H
SCALE —	SHEET 2 OF 2	DIST.		

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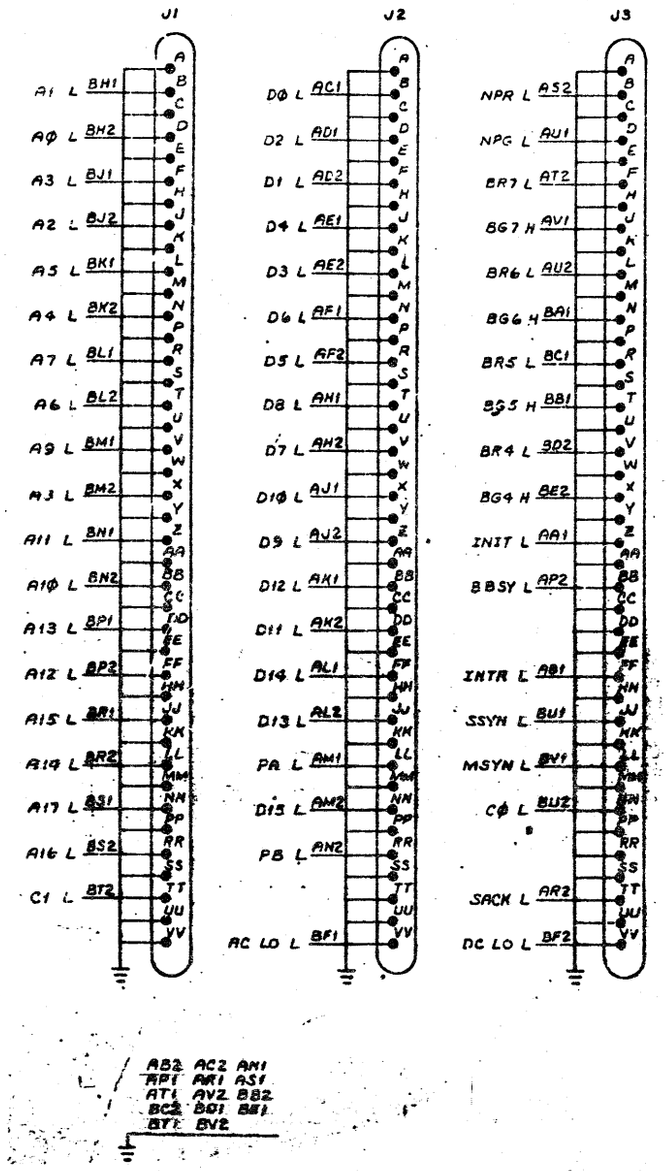

REVISIONS		
REV.	CHANGE NO.	CHK

DRN: [illegible]	15 FEB 77	FIRST USED ON: PDP11
CHK'D: W Cantin	8 MAR 77	
ENG: R.M. Olsen	1 MAR 77	TITLE: UNIBUS TO H854 ADAPTER BOARD
PROJ. ENG: R. Olsen	1 MAR 77	
PROD: W Cantin	1 MAR 77	
NEXT HIGHER ASSY: B-DD-M9014-Ø		SIZE: D; CODE: CS; NUMBER: M9014-Ø-1; REV: A
SCALE:		
SHEET 1 OF 1		DIST.

digital

SIZE CODE D CS NUMBER M9014-Ø-1 REV. A

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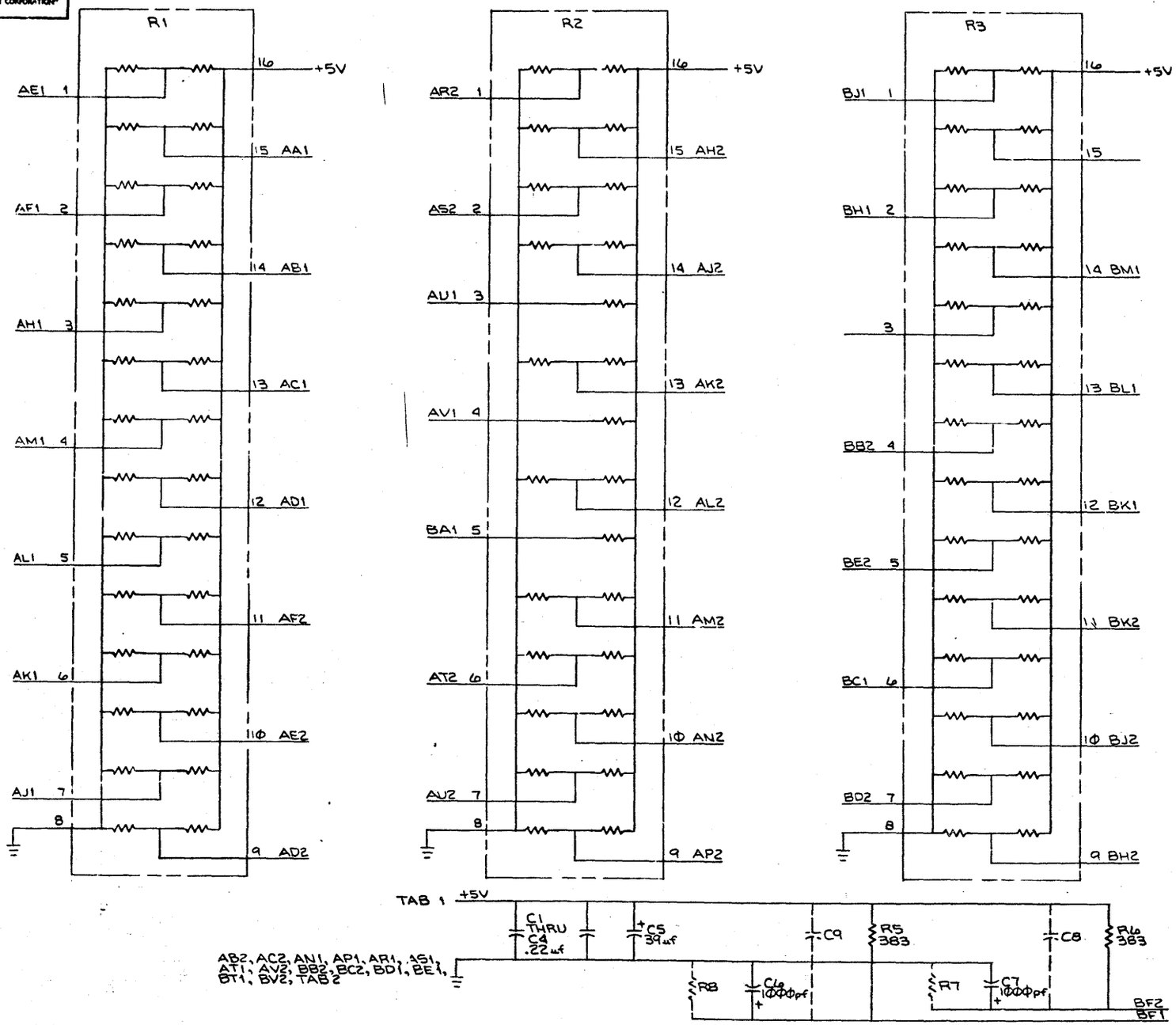

NOTES:
1. R7, R8, C8 & C9 ARE SPARES.

DRN. R.W. Counter	30 APR 76	FIRST USED ON DN87-S	digital
CHK.		TITLE UNIBUS TERMINATOR- REM PWR	
ENG. Michael Mann	7 May 76		
PROJ. ENG.	4 May 76		
PROD. Paul Cuny	25 MAY 76		
NEXT HIGHER ASSY. B-DD-M9310-0		SIZE D CODE CS NUMBER M9310-0-1 REV.	
SCALE		DIST.	
SHEET 1 OF 1			

REVISIONS | REV. | CHANGE NO. | CHK

M9310-0-1 REV.

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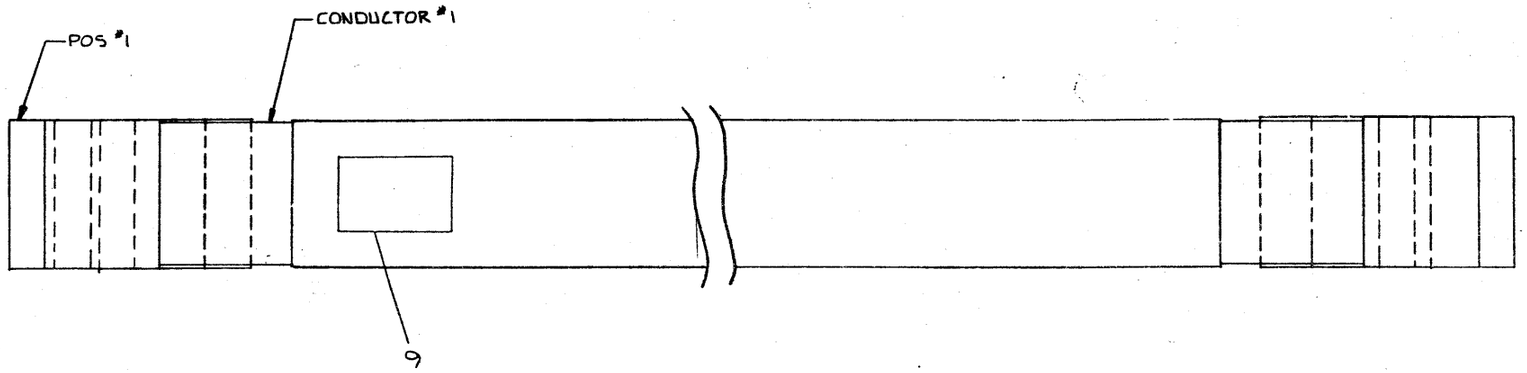
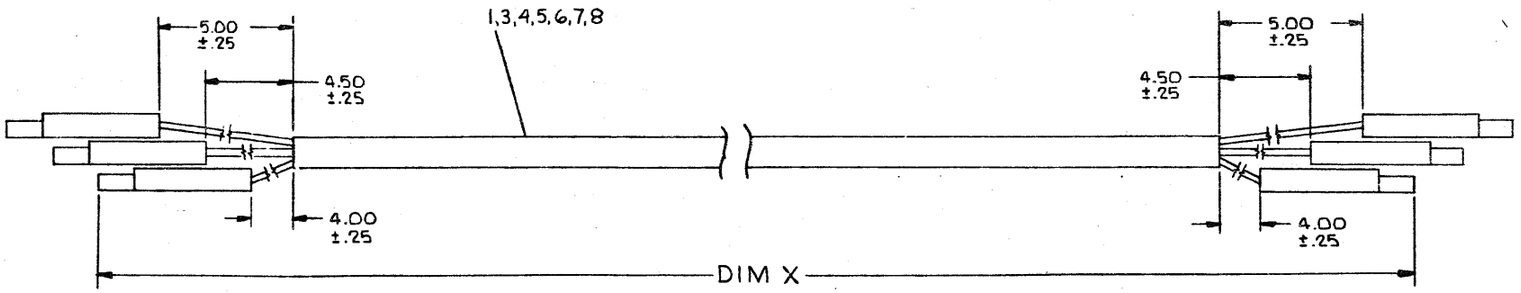
LEGEND	
PART NUMBER	DIM X
BC11Y-05	60.00 ± .37
BC11Y-06	72.00 ± .50
BC11Y-10	120.00 ± 2.0
BC11Y-12	144.00 ± 2.0
BC11Y-14	168.00 ± 2.0
BC11Y-16	192.00 ± 2.0
BC11Y-25	300.00 ± 4.0
BC11Y-36	432.00 ± 4.0

SEE SHEET #2





SEE OFF SHEET PARTS LIST
K-PL-BC11Y-Ø-DBP

DESCRIPTION	DRAWING NO.	PART NO.	ITEM NO.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)

INCHES TOLERANCES	ANGLES ±0°30'	APPLICABLE DIMENSION RANGE (CHECK ONE)	DIMENSION RANGE IN INCHES: OVER 0 TO 0.2	OVER 0.2 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 60.0
.X = ± .1	SURFACE QUALITY	☐	± .02		± .03	± .05	± .10	
.XX = ± .02	✓	☐	± .004	± .008	± .012	± .016	± .024	± .04
.XXX = ± .005	MICROINCHES	☐						

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

DO NOT SCALE DRAWING

REMOVE BURRS AND BREAK SHARP CORNERS

MATERIAL

FINISH

DRN: B Corey	DATE 22-FEB-83	
CHK'D: D Levi	DATE 14-JAN-84	
DES. ENG. Neal Bedrick	DATE 20 JAN 84	
RESP. ENG.	DATE	
MFG. ENG. OK	DATE 20 JAN 84	
TOP DOC. NO. D-AR-DT07-Ø-Ø		

TITLE BC11Y CABLE ASSEMBLY

digital

DOCUMENT NUMBER: SIZE D | CODE A | NUMBER BC11Y-Ø-Ø | REV. A

SCALE 1-1 | SHEET 1 OF 2

REVISION HISTORY			
REV.	ECO NUMBER	ORIGIN	DATE
A			

SIZE CODE D | A | BC11Y-Ø-Ø | REV. A

DRD 1006

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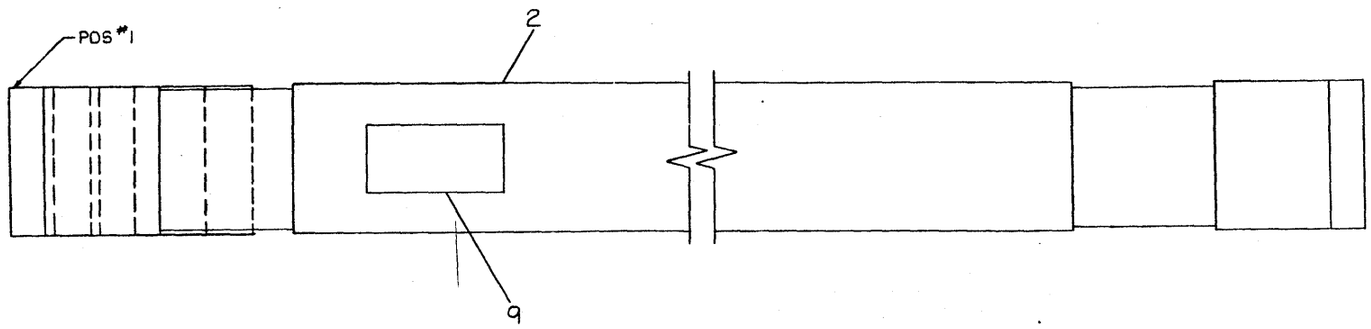

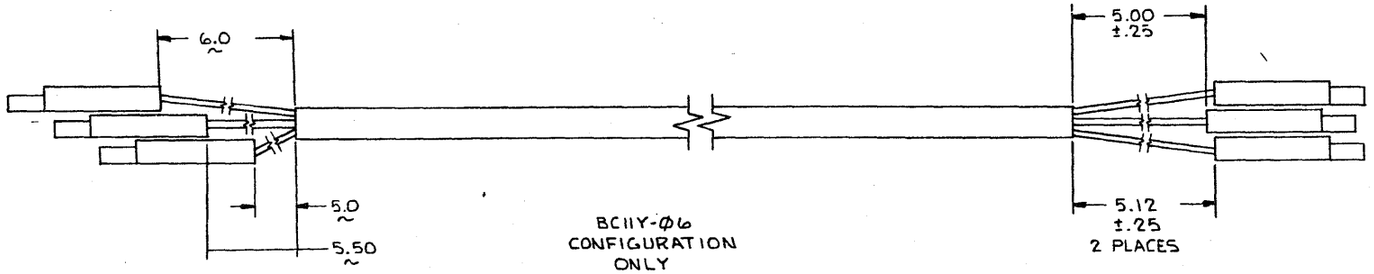

BC11Y-06
CONFIGURATION
ONLY

REVISION HISTORY		
REV.	ECO NUMBER	DATE

TITLE BC11Y
CABLE ASSEMBLY

DOCUMENT NUMBER			
SIZE	CODE	NUMBER	REV
D	IA	BC11Y-0-0	A
SCALE ——		SHEET 2 OF 2	

DRD 1378
EK-01284-46-00000000

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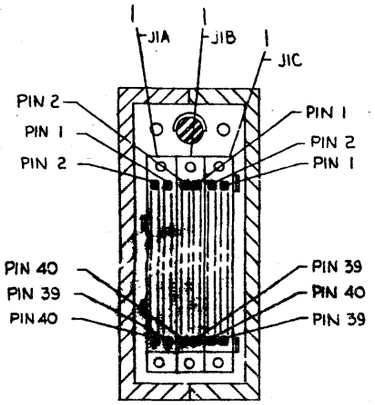
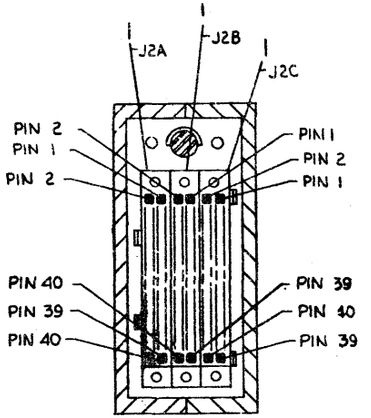
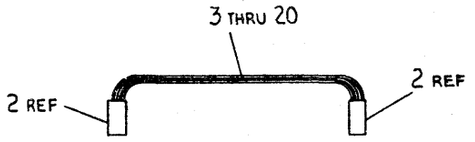


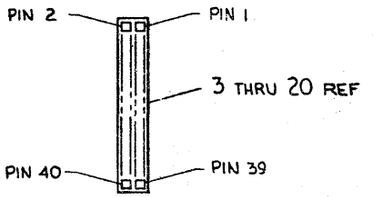
SECTION A-A
SCALE: NONE
(SEE NOTE 1)



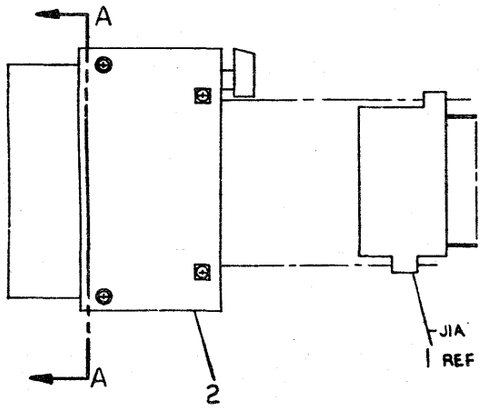
SECTION B-B
SCALE: NONE
(SEE NOTE 1)

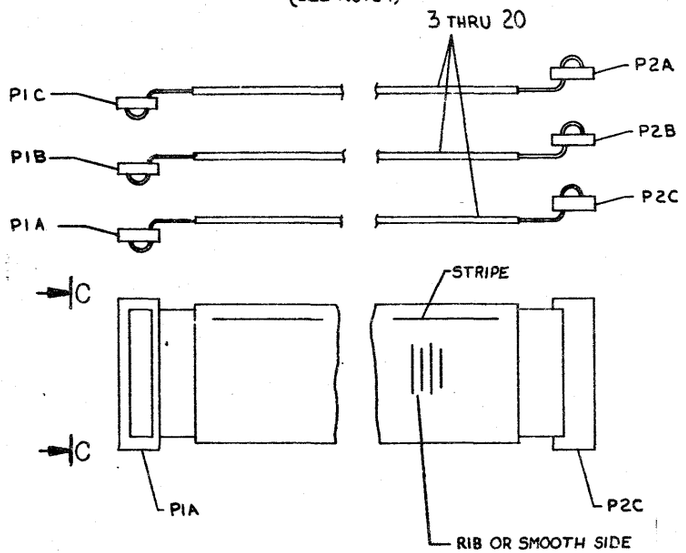


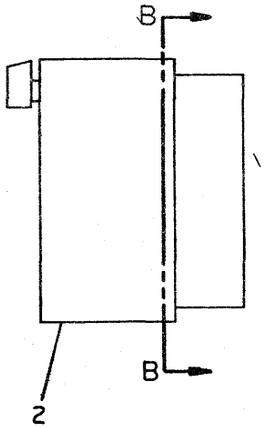
DETAIL 'D'
SEE NOTE 2
SCALE: NONE



VIEW C-C
SCALE: NONE
(SEE NOTE 1)
(3 PLACES)







NOTES:

1. CONNECT PLUGS OF BCØ3U I/O CABLE ASSY. (ITEM "3 THRU "20) AS FOLLOWS: P1A TO J1A, P1B TO J1B, P1C TO J1C, P2A TO J2A, P2B TO J2B, P2C TO J2C. VIEW C-C SHOWS THE PIN NO. ON THE BCØ3U CABLE. SHOWN HERE FOR REF ONLY. DO NOT USE THESE NUMBERS THEY ARE DIFFERENT FROM SECTION A-A & B-B.
2. BEFORE FINAL ASSEMBLY "CABLES" (ITEM "3 THRU "20) TO LAY FLAT SO THAT ANY SLACK WILL BE REMOVED BEFORE "CABLE CLAMP" (PART OF ITEM "2) IS TIGHTENED THIS CAUSES A PERMANENT BEND TO OCCUR. (SEE DETAIL "D")
3. "PLUG HOUSING" (-02) & TERMINATOR PLUG ASSY" (ITEM "1) TO BE ASSEMBLED PRIOR TO THE INSTALLATION OF "CABLES" (ITEM "3 THRU "20)
4. INSERTS PROVIDED IN "CABLE PLUG KIT" (ITEM "2) ARE NOT USED IN THIS ASSY.

CAUTION:
OFF SHEET PARTS LIST EXIST
C-PL-7014211-0-0

REVISIONS			
REV.	CHANGE NO.	CHK	
A	DN20-MR002	J. BISOL	9 Mar 78

	DESCRIPTION	DWG./PART NO.	ITEM NO.
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		

ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE IN INCHES					
		OVER 0 TO 0.2	OVER 0.2 TO 0.6	OVER 0.6 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
SURFACE QUALITY IN MICROINCHES ✓	MEDIUM ☐	±.005	±.008	±.012	±.016	±.024	±.04
	PREFERRED ☐	±.012	±.016	±.025	±.04	±.063	±0.1

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

DRN. M. Andrew	22 Dec 76	
CHK'D R. Hoff	12 Jan 77	
ENG. [illegible]	24 Jan 77	
PROJ. ENG. P. Mahoney	7 Mar 77	
PROD. [illegible]	7 Mar 77	

NEXT HIGHER ASSY.

MATERIAL: SEE PARTS LIST
FINISH

D-UA-DN20-0-0
SCALE NONE
SHEET 1 OF 2

FIRST USED ON: DN20

digital

TITLE: CABLE, RUGGEDIZED UNIBUS

SIZE	CODE	NUMBER	REV.
D	AD	7014211-0-0	A

DIST.

MR 1

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LEGEND	
NUMBER	VARIATION
7014211 -03	3 FT ± 1 IN
7014211 -06	6 FT ± 2 IN
7014211 -10	10 FT ± 2 IN
7014211 -12	12 FT ± 3 IN
7014211 -14	14 FT ± 3 IN
7014211 -16	16 FT ± 3 IN
7014211 -18	18 FT ± 3 IN
7014211 -20	20 FT ± 3 IN
7014211 -22	22 FT ± 3 IN
7014211 -24	24 FT ± 3 IN
7014211 -26	26 FT ± 2%
7014211 -28	28 FT ± 2%
7014211 -30	30 FT ± 2%
7014211 -32	32 FT ± 2%
7014211 -34	34 FT ± 2%
7014211 -36	36 FT ± 2%
7014211 -38	38 FT ± 2%
7014211 -40	40 FT ± 2%

REVISIONS

CHK	CHANGE NO.	REV.

TITLE CABLE, RUGGEDIZED UNIBUS
SIZE D CODE AD NUMBER 7014211 -0 -0 REV. A
SCALE NONE SHEET 2 OF 2 DIST.

mr 1

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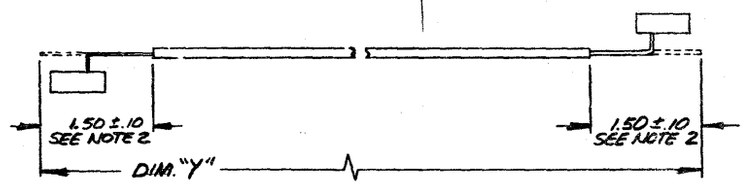
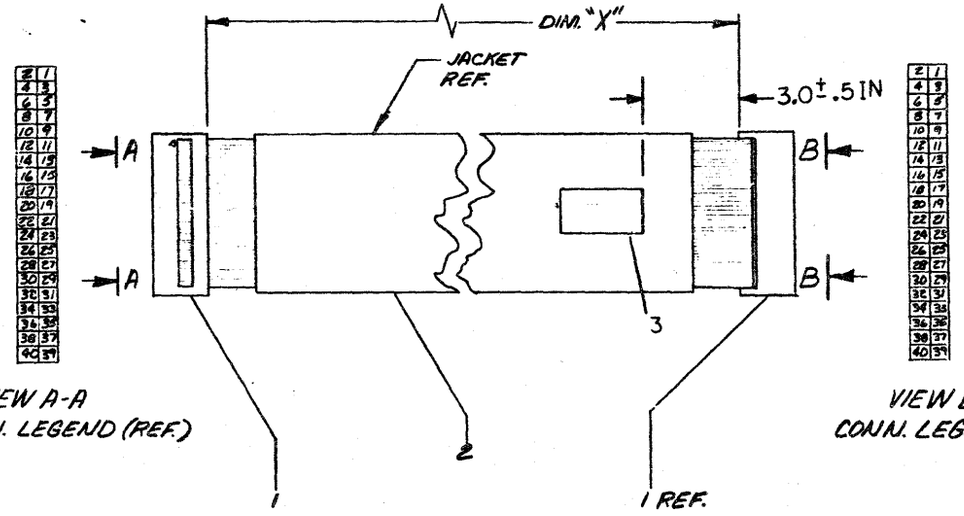
LEGEND

NUMBER	DIM. "X" VARIATION	DIM. "Y" (PRECUT) REF
BCØ3U-Ø3	3FT. ± 1 IN.	3FT. 1.5 IN. ± 1 IN.
BCØ3U-Ø6	6FT. ±2 INCHES	6FT. 1.5 IN. ± 2 IN.
BCØ3U-1Ø	10FT. ±2 INCHES	10FT. 1.5 IN. ± 2 IN.
BCØ3U-12	12FT. ±2 INCHES	12FT. 1.5 IN. ± 2 IN.
BCØ3U-14	14FT. ±2 INCHES	14FT. 1.5 IN. ± 2 IN.
BCØ3U-16	16FT. ±2 INCHES	16FT. 1.5 IN. ± 2 IN.
BCØ3U-18	18FT. ±2 INCHES	18FT. 1.5 IN. ± 2 IN.
BCØ3U-2Ø	20FT. ±3 INCHES	20FT. 1.5 IN. ± 3 IN.
BCØ3U-22	22FT. ±3 INCHES	22FT. 1.5 IN. ± 3 IN.
BCØ3U-24	24FT. ±3 INCHES	24FT. 1.5 IN. ± 3 IN.
BCØ3U-26	26FT ±3 INCHES	26FT. 1.5 IN. ± 3 IN.
BCØ3U-28	28FT ± 2%	28FT. 1.5 IN. ± 2%
BCØ3U-3Ø	30FT. ± 2%	30FT. 1.5 IN. ± 2%
BCØ3U-32	32FT ± 2%	32FT. 1.5 IN. ± 2%
BCØ3U-34	34FT. ± 2%	34FT. 1.5 IN. ± 2%
BCØ3U-36	36FT. ± 2%	36FT. 1.5 IN. ± 2%
BCØ3U-38	38FT. ± 2%	38FT. 1.5 IN. ± 2%
BCØ3U-4Ø	40FT. ± 2%	40FT. 1.5 IN. ± 2%

NOTES:
1. EACH CONNECTOR IS WIRED POINT TO POINT
2. CUT BACK JACKET ON CABLE 1.5 INCHES BOTH ENDS BEFORE ATTACHING ITEM 1.





VIEW A-A
CONN. LEGEND (REF.)

VIEW B-B
CONN. LEGEND (REF.)

CAUTION:
OFF SHEET PARTS LIST
SEE K-PL-BCØ3U-Ø-Ø.

DO NOT SCALE DRAWING

A/R	DESCRIPTION	DWG./PART NO.	ITEM NO.
A/R	CABLE, ~~40~~ EQUIP.	1700660-01	2
2	CONN, ~~40~~ SOCKET	12T206-00	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES: OVER 0 TO 0.3	OVER 0.3 TO 1.5	OVER 1.5 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
SURFACE QUALITY IN MICROINCHES	MEDIUM ☐	±.004	±.008	±.012	±.016	±.024	±.04
	PREFERRED ☐	±.012	±.016	±.025	±.04	±.063	±0.1

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

DRN. W. MC CARTHY	31-MAR-76	FIRST USED ON BCVIC
CHK'D W. MC CARTHY	1-APR-76	digital
ENG. T. ORR	2-APR-76	
PROJ. ENG. T. ORR	2-APR-76	
PROD. F. PETERSON	1-APR-76	
NEXT HIGHER ASSY.		
MATERIAL SEE PARTS LIST	D-UA-BCVIC-Ø-Ø	
FINISH —	SCALE ///	
	SHEET / OF /	

TITLE
BCØ3U
I/O CABLE

SIZE D | CODE UA | NUMBER BCØ3U-Ø-Ø | REV. C | DIST.

MK

REVISIONS			
CHK	CHANGE NO.		REV.
K/T	BCØ3U-000002	REVISED & REDRAWN	B
		M. DRUMM 23-FEB-77	
	BCØ3U-MK0003	T. ORR 15-APR-77	C

DEC FORM NO. DRD 100-C

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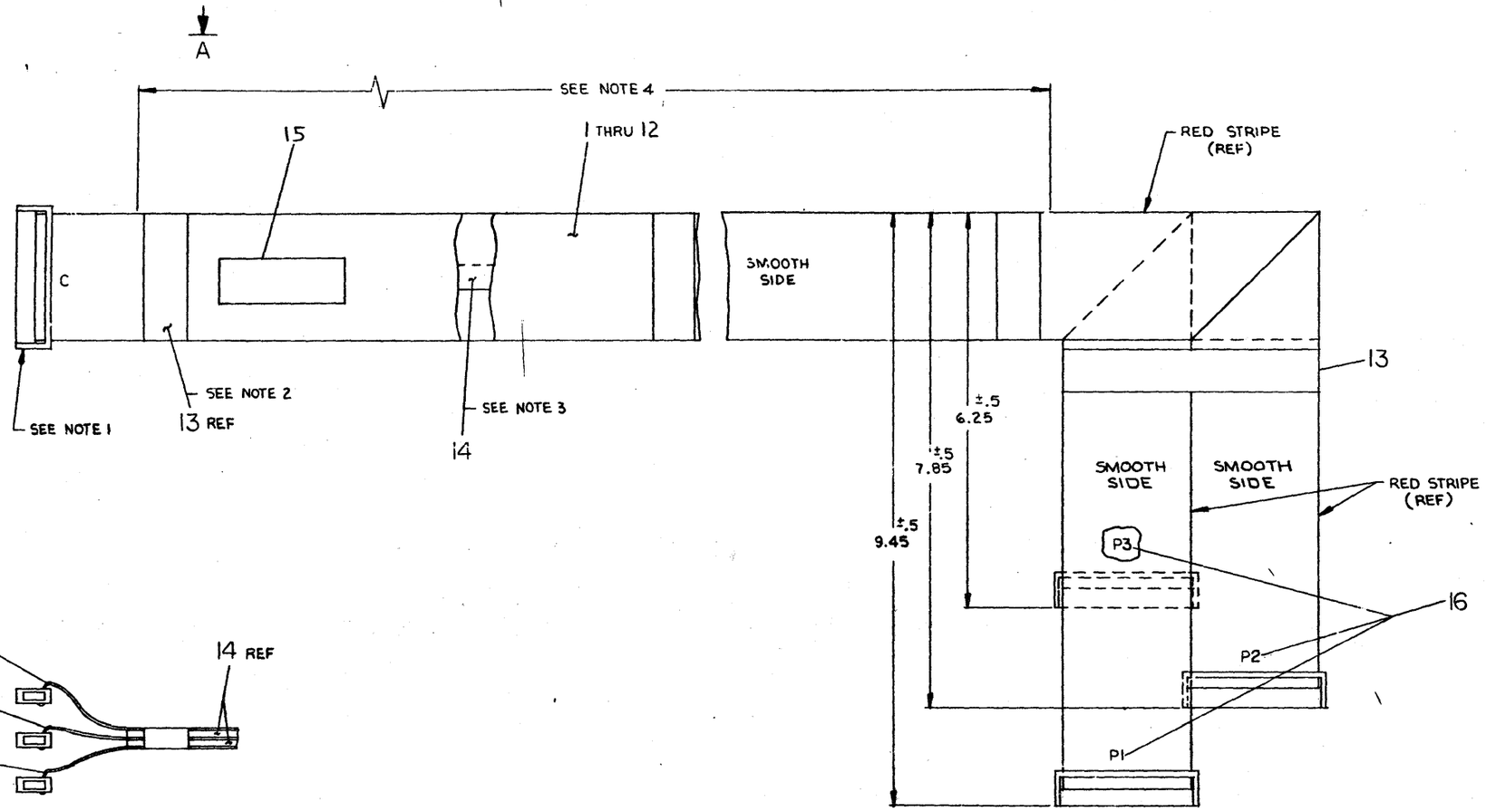
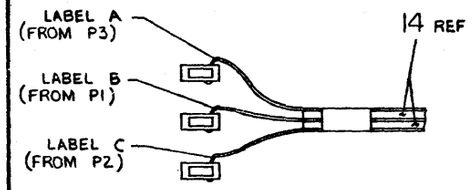
NOTES:

1. ALL CABLES END AT SAME POINT AND ANY CABLE THAT EXCEEDS THIS POINT MAY BE FOLDED OVER TO TAKE UP THE DIFFERENCE.
2. USE TAPE (ITEM #13) APPROX. EVERY 8 INCHES.
3. SHOWING FOAM (ITEM #14) OVERLAPPING.
4. FOAM (ITEM #14) TO BE USED IN THIS AREA ONLY.





VIEW A-A
SCALE: 1/1

CAUTION:
OFF SHEET PARTS LIST EXIST
C-PL-7014002-0-0

REV.	CHANGE NO.	CHK.
A	DN20-MR002	GW

J. BISOL 9 Nov 78
J. Clark 9 Nov 78
J. Bisol 13 Nov 78

DESCRIPTION	DWG./PART NO.	ITEM NO.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES: OVER 0 TO 0.3	OVER 0.3 TO 1.2	OVER 1.2 TO 3.0	OVER 3.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
SURFACE QUALITY IN MICROINCHES ✓	MEDIUM ☐	±.004	±.008	±.012	±.016	±.024	±.04
	PREFERRED ☐	±.012	±.016	±.028	±.04	±.063	±0.1

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL: SEE PART LIST

FINISH

DRN.	M Clarke	4 Nov 77
CHK'D	[illegible]	7 Nov 77
ENG.	[illegible]	7 Nov 77
PROJ. ENG.	[illegible]	9 Nov 77
PROD.	[illegible]	7 Nov 77

NEXT HIGHER ASSY.: D-UA-DN20-0-0

SCALE: 1/1

SHEET 1 OF 2

FIRST USED ON: DN20

digital

TITLE: CABLE ASSY, INTERNAL UNIBUS

SIZE	CODE	NUMBER	REV.
D	AD	7014002-0-0	A

DIST.

MR 1

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LEGEND

NUMBER	VARIATION
7014002-04	4 FT
7014002-05	5 FT
7014002-06	6 FT
7014002-07	7 FT
7014002-08	8 FT
7014002-09	9 FT
7014002-10	10 FT
7014002-11	11 FT
7014002-12	12 FT
7014002-13	13 FT
7014002-14	14 FT
7014002-15	15 FT

REVISIONS

CHK	CHANGE NO.	REV.

TITLE CABLE ASSY, INTERNAL UNIBUS

SIZE D | CODE AD | NUMBER 7014002-0-0 | REV. A

SCALE | SHEET 2 OF 2 | DIST.

NEXT ASSY | USED ON | NUMBER 7014002-0-0 | REV. A

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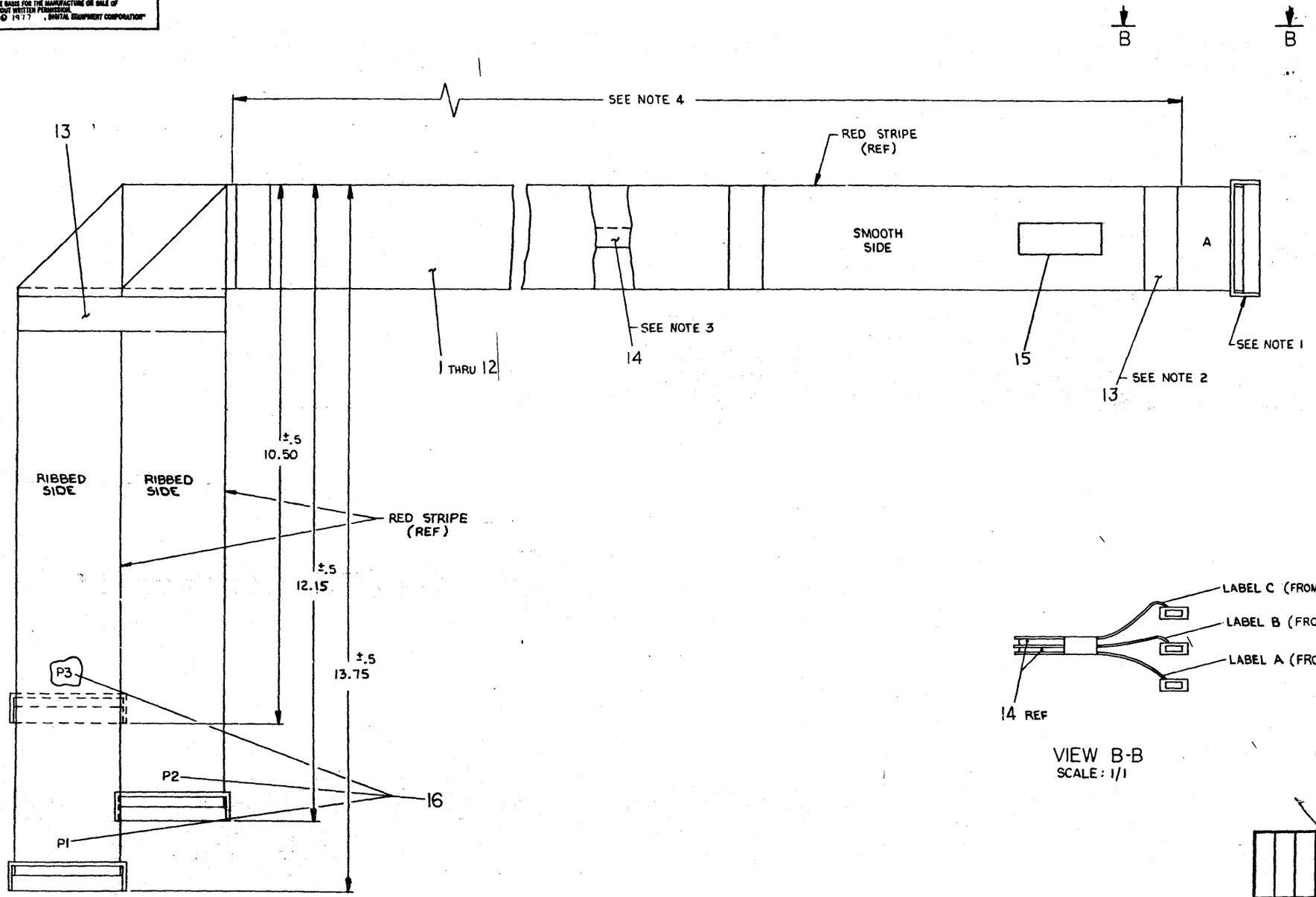
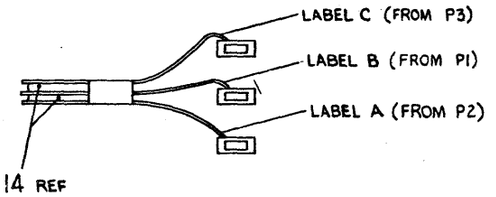
NOTES:
1. ALL CABLES END AT SAME POINT AND ANY CABLE THAT EXCEEDS THIS POINT MAY BE FOLDED OVER TO TAKE UP THE DIFFERENCE.
2. USE TAPE (ITEM #13) APPROX. EVERY 8 INCHES.
3. SHOWING FOAM (ITEM #14) OVERLAPPING.
4. FOAM (ITEM #16) TO BE USED IN THIS AREA ONLY.





VIEW B-B
SCALE: 1/1

CAUTION:
OFF SHEETS PARTS LIST EXIST
C-PL-7014246-0-0

REVISIONS			
REV.	CHANGE NO.	CHK	
A	DN20-MR002	P.J. Clark 9 Nov 78	J. BISOL

DESCRIPTION		DWG./PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			
QUANTITY & VARIATION			
THIRD ANGLE PROJECTION	DRN. M. Gulin 4 Nov 77	FIRST USED ON DN2Ø	digital
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D [illegible] 7 Nov 77	TITLE CABLE ASSY, INTERNAL UNIBUS	
DO NOT SCALE DWG	ENG. [illegible] 7 June 77		
	PROJ. ENG. [illegible] 7 June 77		
	PROD. [illegible] 7 Nov 77		
MATERIAL SEE PARTS LIST	NEXT HIGHER ASSY. D-UA-DN2Ø-Ø-Ø	SIZE D	CODE AD
FINISH	SCALE 1/1	NUMBER 7014246-0-0	REV. A
	SHEET 1 OF 2	DIST.	

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LEGEND

NUMBER	VARIATION
7014246-04	4 FT
7014246-05	5 FT
7014246-06	6 FT
7014246-07	7 FT
7014246-08	8 FT
7014246-09	9 FT
7014246-10	10 FT
7014246-11	11 FT
7014246-12	12 FT
7014246-13	13 FT
7014246-14	14 FT
7014246-15	15 FT

REVISIONS

CHK	CHANGE NO.	REV.
MR	1 JUN 77	P01

TITLE CABLE ASSY INTERNAL UNIBUS
SCALE —/— SHEET 2 OF 2
SIZE D CODE AD
NUMBER 7014246-0-0
REV. A
DIST.

MR 1

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WIRE TABLE

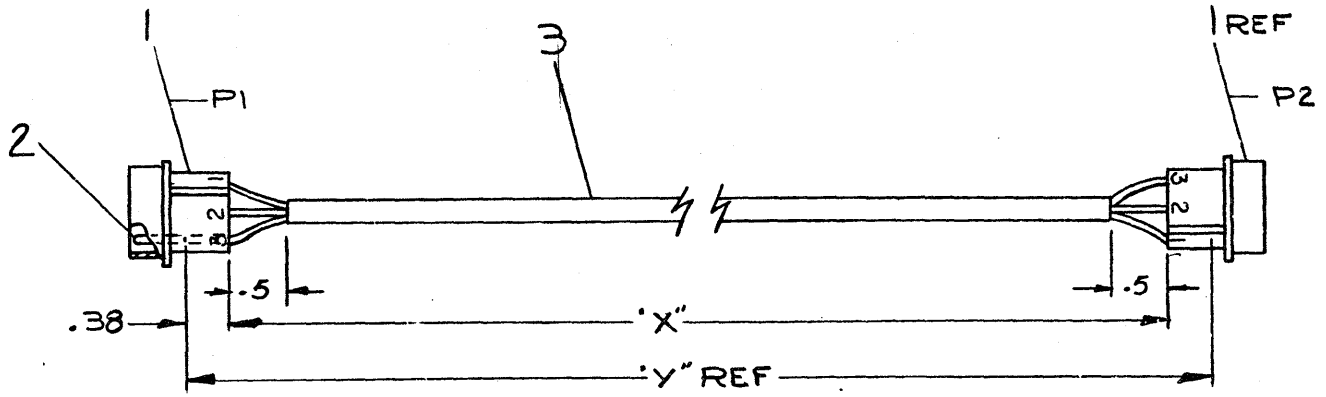
ITEM NO	DESCRIPTION AWG	DESCRIPTION COLOR	FROM CONNECTION	FROM WITH	TO CONNECTION	TO WITH
3	22	RED	P1-1	2	P2-1	2
3	22	BLK	P1-2	2	P2-2	2
3	22	GRN	P1-3	2	P2-3	2

LEGEND

NUMBER	DIM'X" VARIATION	DIM'Y" (PRECUT) REF
7008288-3F	3FT. 6 IN ± 1 IN.	3FT. 6.8 IN ± 1 IN.
7008288-8F	8FT. 6 IN ± 2 IN.	8FT. 6.8 IN. ± 2 IN.
7008288-06	6FT. ± 2 IN.	6FT. 0.8 IN ± 2 IN.
7008288-12	12FT. ± 3 IN.	12FT. 0.8 IN ± 3 IN.
7008288-05	5FT. ± 1 IN.	5FT. 0.8 IN ± 2 IN.
7008288-10	10FT. ± 2 IN.	10FT. 0.8 IN ± 3 IN.
7008288-15	15FT. ± 3 IN.	15FT. 0.8 IN ± 3 IN.
7008288-08	8FT. ± 2 IN.	8FT. 0.8 IN ± 2 IN.
7008288-30	30FT. ± 7 IN.	30FT. 0.8 IN ± 7 IN.
7008288-40	40FT. ± 10 IN.	40FT. 0.8 IN ± 10 IN
7008288-25	25FT. ± 10 IN	25FT. 0.8 IN ± 10 IN

NOTES:

~~1. THE REMAINING BLK WIRE IS TO BE CUT BACK AT JACKET (BOTH ENDS.)~~



REVISIONS	CHK	CHANGE NO.	REV.
R. BURTON	KB	7008288-00001	A
D. LEWIS	KB	7008288-00002	B
B. MINOR	KB	7008288-00003	C
J. PROVIDENT	GW	7008288-00004	D
F. DOLL	KB	7008288-00005	E
F. DOLL	B.W.	7008288-00006	F
J. MCINTYRE	JC	7012401-00003	H
I. MORRIS	Ira	7008288-ML007	J
A. CASTELLANOS			

A/R	DESCRIPTION	PART NO.	ITEM NO.
A/R	WIRE, 3 COND #22 AWG	9107756	3
6	PIN MALE #66620-1	1209378-03	2
2	PIN HOUSING #1-480305-0	1209351-03	1
QTY.	DESCRIPTION	PART NO.	ITEM NO.

PARTS LIST

FIRST USED ON OPTION/MODEL: PDP/11

UNLESS OTHERWISE SPECIFIED

UNLESS OTHERWISE SPECIFIED
DIMENSION IN INCHES
TOLERANCES
~~DECIMALS~~ ~~FRACTIONS~~ ANGLES
~~.X ±.03~~ ~~± 1/64~~ ± 0°30'
FINAL SURFACE QUALITY ✓
REMOVE BURRS AND BREAK SHARP CORNERS

MATERIAL: SEE PARTS LIST

FINISH: —

DRN.	DATE 3/22/71	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
CHK'D	DATE 3-31-71	
ENG	DATE 4-9-71	
PROJ. ENG.	DATE 4-9-71	
PROD.	DATE 4/12/71	

NEXT HIGHER ASS'Y: D-IA-RK02-0-0

SCALE: —

SHEET 1 OF 1

TITLE: CABLE ASSY

SIZE	CODE	NUMBER	REV.
C	IA	7008288-0-0	J

DIST.

DEC FORM NO.

SYM	ITEM NO	PART NO (REF)
○	3	9007920-00
▮	6	1215004-00
□	10	1211541-01

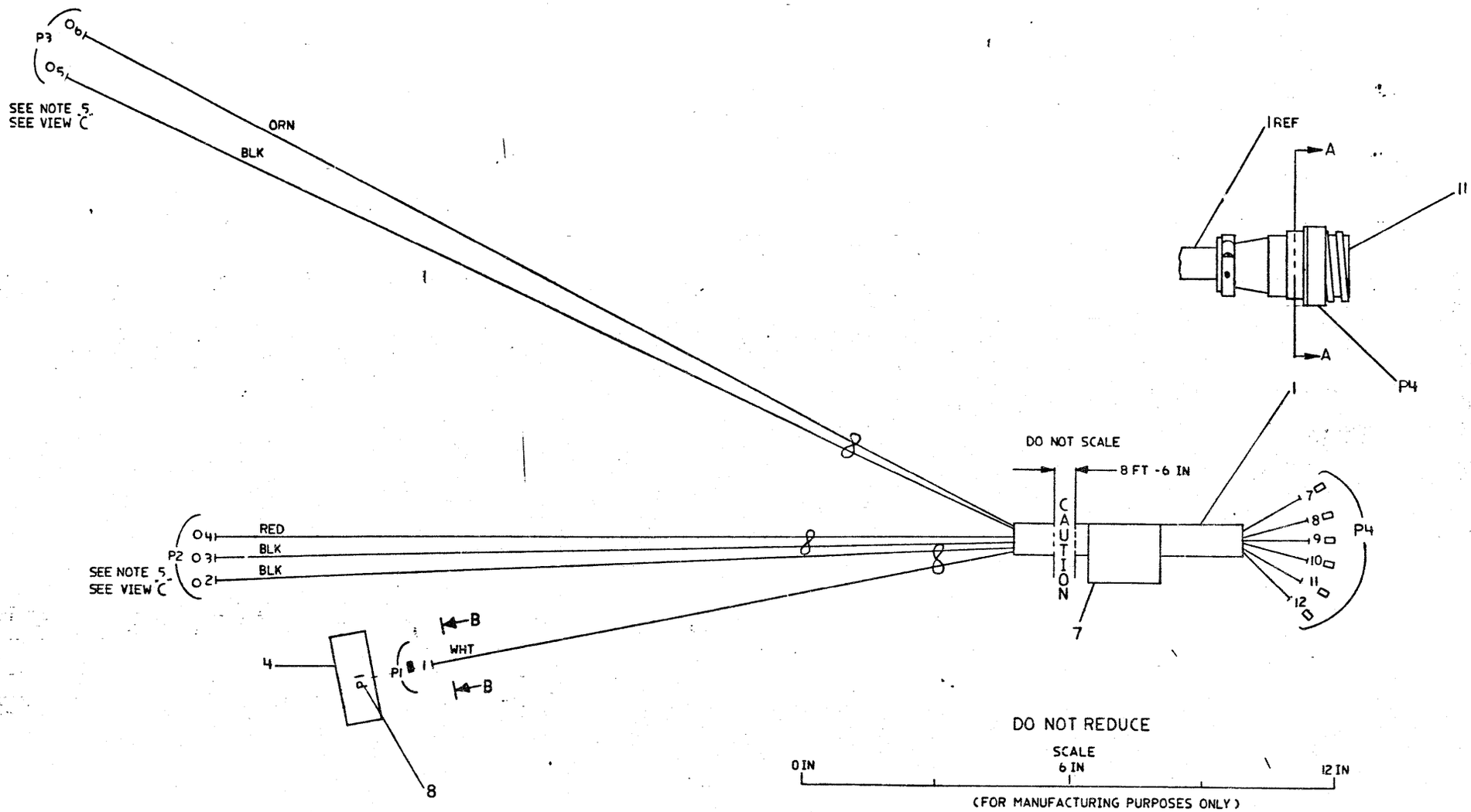
ITEM NO	DESCRIPTION AWG	COLOR	FROM POINT	FROM CONN	FROM WITH	TO POINT	TO CONN	TO WITH	REMARKS
1	12	WHT	1	P1-5	ITEM 6	7	P4-3	ITEM 10	SEE NOTE 1
	TWP	BLK	2	P2-3	ITEM 3	8	P4-4		
	12	RED	4	P2-1		10	P4-1		SEE NOTES 1&2
	TWP	BLK	3	P2-4		9	P4-2		
	12	ORN	6	P3-1		12	P4-5		SEE NOTE 1
	TWP	BLK	5	P3-3	ITEM 3	11	P4-6	ITEM 10	

LEGEND

PART NO	VARIATION	REV
7021174-01	AS SHOWN	A1

NOTES:

1. ITEM 3 TO BE SOLDERED TO WIRE AFTER BEING CRIMPED.
2. ITEM 3 TO BE SOLDERED TO APPROPRIATE TABS ON ITEM 2.
3. TABS ON MODULE (ITEM 2) TO BE SOLDERED AT EYELETS.
4. TERMINATION POINTS TO BE LABELED WITH BRADY MARKERS.
5. SHRINKAGE OF YELLOW INSULATION ON FASTON TABS (ITEM 3) IS ALLOWABLE WITHIN REASONABLE LIMITS, I.E.:
   A. THE INSULATION SHALL NOT BE SPLIT.
   B. THE INSULATION SHALL NOT BE CHARRED OR OTHERWISE DISCOLORED BY HEAT.
   C. THE COPPER OF THE FASTON TAB MAY BE EXPOSED

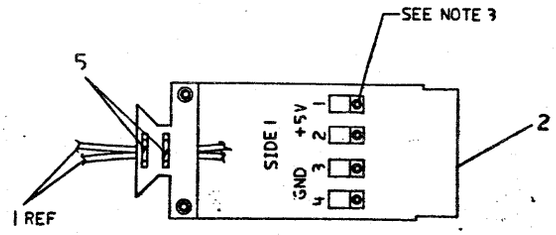


DO NOT REDUCE

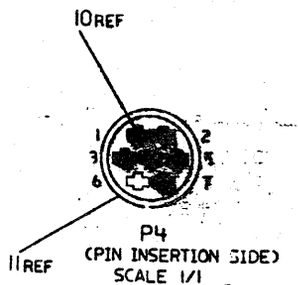
SCALE

0 IN — 6 IN — 12 IN

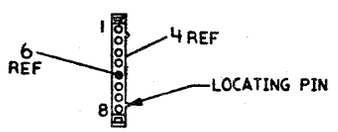
(FOR MANUFACTURING PURPOSES ONLY)



TYP P2 & P3
SCALE 1/1
VIEW "C"



P4
(PIN INSERTION SIDE)
SCALE 1/1
SECTION "A-A"



P1
(PIN INSERTION SIDE)
SCALE 1/1
VIEW "B-B"

CAUTION: OFF SHEET PARTS LIST EXISTS
SEE K-PL-7021174-0-DBP.

RELEASED

DESCRIPTION	DRAWING NO.	PART NO.	REV

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 11-0)

INCHES TOLERANCES	ANGLES ±0° 30'	APPLICABLE DIMENSIONAL RANGE	OVER 0 TO 6	OVER 6 TO 12	OVER 12 TO 48	OVER 48 TO 120	OVER 120 TO 180	OVER 180 TO 240
X ± 0.1	SURFACE QUALITY	LINEAR DIMS	0.2	0.3	0.5	0.8	1.2	1.6
XX ± 0.02			± .010	± .015	± .020	± .030	± .040	± .060
XXX ± 0.005			± .005	± .005	± .010	± .015	± .020	± .030

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

DO NOT SCALE DRAWING

REMOVE BURRS AND BREAK SHARP CORNERS

MATERIAL: SEE PARTS LIST

FINISH: NONE

	NAME	DATE
DRN	J.R. Brown	27 SEP 83
CHK	D.C. Donald	6 MAR 84
ENGR	R.J. Sullivan	17 MAR 84
ENGR		16 APR 84
ENGR		20 APR 84

TITLE: HARNESS, DTE REMOTE (ADAPTOR NO 2)

digital

DOCUMENT NUMBER: E IA 7021174-0-0 REV A

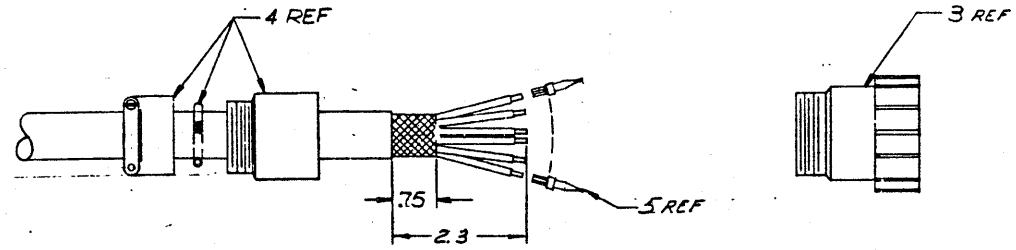
SCALE 1/1

SIZE E | CAGE | IA | 7021174-0-0 | REV A

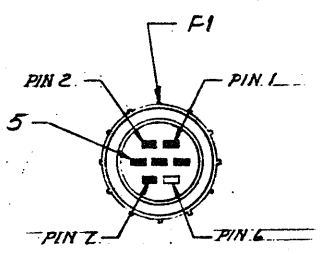
T-IA-7021174-0-0

NO	AWG	COLOR	CONN	WITH	CONN	WITH	REMARKS
1	12	RED	P1 - 1	5	P2 - 1	5	
1	TWP	BLK	P1 - 2	5	P2 - 2	5	
1	12	ORN	P1 - 5	5	P2 - 5	5	
1	TWP	BLK	P1 - 6	5	P2 - 6	5	
1	12	WHT	P1 - 3	5	P2 - 3	5	
1	TWP	BLK	P1 - 4	5	P2 - 4	5	

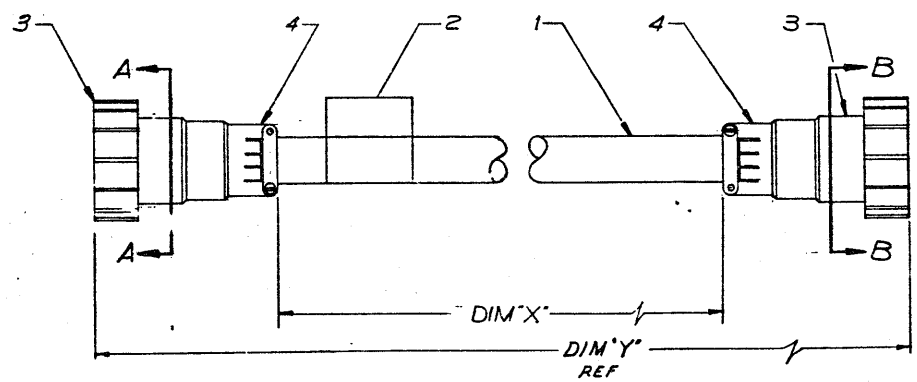
[illegible] NO	DIM X	DIM Y	REV
7020843 - 24	23FT3IN±3IN	24FT	A1

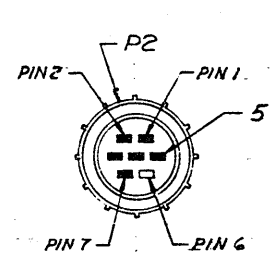


PREPARATION OF BOTH ENDS



SECTION A-A
PIN INSERTION SIDE





SECTION B-B
PIN INSERTION SIDE

CAUTION: OFF SHEET PARTS LIST EXISTS
SEE K-PL-7020843-0-DBP

	DESCRIPTION	DRAWING NO	PART NO	ITEM NO

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)

INCHES TOLER	ANGLES ±0°30'	APPLICABLE DIMENSION RANGE	DIMENSION RANGE IN INCHES					
	SURFACE QUALITY		OVER 0 TO 6	OVER 6 TO 12	OVER 12 TO 48	OVER 48 TO 120	OVER 120 TO 240	OVER 240 TO 480
.X ± .1			0.2	0.3	0.5	1.0	2.0	3.0
.XX ± .02	✓		± .02	± .03	± .05	± .10	± .15	± .20
.XXX ± .005	MICROINCHES		± .004	± .006	± .012	± .020	± .030	± .040

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

DO NOT SCALE DRAWING

REMOVE BURRS AND BREAK SHARP CORNERS

MATERIAL: SEE PARTS LIST

FINISH

	NAME	DATE
DRN	DONOHUE	7JUL83
DSGN	R. SCOTT	5-12-83
TECH WRITER		5-12-83
PROJ MGR		5/12/83
QUAL ASSUR		5/12/83
MFG MGR		7/26/83

TITLE: CABLE, DTE REMOTE

DOCUMENT NUMBER: SIZE E | CODE IA | 7020843 | REV A

SCALE NONE | SHEET | OF 1

REVISION HISTORY

REV	ECO NUMBER	DATE

DNE 12DC

7020843 REV A

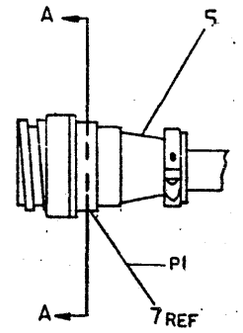
SYM	ITEM NO	PART NO
	3	121504-00
	4	900292-00
	8	121541-00

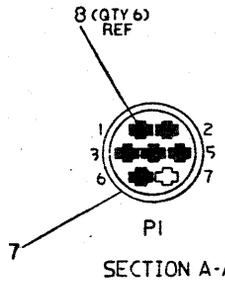
PART NO	VARIATION	REV
021033-01	AS SHOWN	A1

ITEM NO	DESCRIPTION AWG	COLOR	FROM POINT	CONN	WITH	TO POINT	CONN	WITH	REMARKS
1	12	ORN	7		ITEM 4	6	P1-5	ITEM 8	SEE NOTE 1
	TWP	BLK	8		ITEM 4	5	P1-6		
	12	RED	9	P4-1	ITEM 3	4	P1-1		
	TWP	BLK	10	P4-2		3	P1-2		
	12	WHT	11	P4-3		2	P1-3		
	TWP	BLK	12	P4-4	ITEM 3	1	P1-4	ITEM 8	SEE NOTE 1

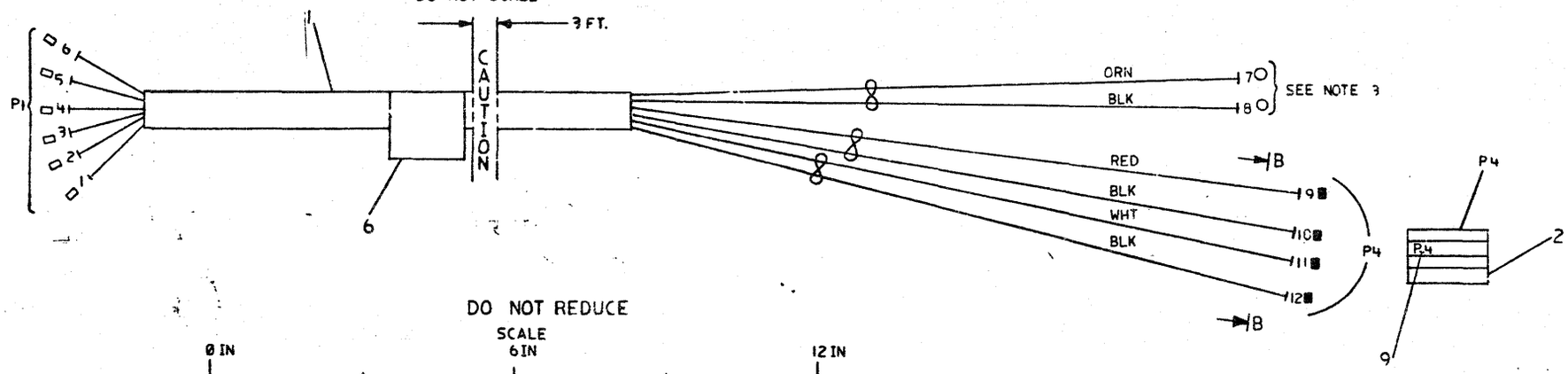
NOTES:

1. ITEMS 3 & 4 TO BE SOLDERED TO WIRE AFTER BEING CRIMPED
2. TERMINATION POINTS TO BE LABELED WITH BRADY MARKERS
3. SHRINKAGE OF YELLOW INSULATION ON FASTON TABS (ITEM 4) IS ALLOWABLE WITHIN REASONABLE LIMITS I.E.:
   A. THE INSULATION SHALL NOT BE SPLIT.
   B. THE INSULATION SHALL NOT BE CHARRED OR OTHERWISE DISCOLORED BY HEAT.
   C. THE COPPER OF THE FASTON TAB MAY BE EXPOSED.





SECTION A-A
(PIN INSERTION SIDE)
SCALE 1/1

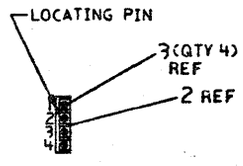


DO NOT REDUCE

SCALE
6 IN

0 IN — 12 IN

(FOR MANUFACTURING PURPOSES ONLY)



P4

VIEW B-B
(PIN INSERTION SIDE)
SCALE: NONE

CAUTION: OFF SHEET PARTS LIST EXISTS
SEE K-PL-7021033-0-DBP.

	DESCRIPTION	DRAWING NO.	PART NO.	ITEM NO.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)

INCHES TOLERANCES	ANGLES ±0°30'	APPLICABLE DIMENSIONAL RANGE	DIMENSIONAL RANGE IN INCHES
.X ± .1 .XX ± .05 .XXX ± .010	SURFACE QUALITY MACH. FINISH	MICROINCHES	OVER 0 TO 0.2 ± .001; OVER 0.2 TO 1.2 ± .002; OVER 1.2 TO 4.8 ± .005; OVER 4.8 TO 12.5 ± .010; OVER 12.5 TO 48.5 ± .015; OVER 48.5 TO 99.5 ± .020

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

DO NOT SCALE DRAWING

REMOVE BURRS AND BREAK SHARP CORNERS

MATERIAL: SEE PARTS LIST

FINISH: NONE

	NAME	DATE
DRN	H Brown	13 OCT 83
CHK	Joe Snyder	6 APR 84
ENGR APPR	Timothy Sullivan	17 APR 84
PROJ APPR		
MFG APPR		18 APR 84
CM APPR		20 APR 84

E-IA-7021033-0-0

TITLE: HARNESS DTE REMOTE (ADAPTOR NO 1)

DOCUMENT NUMBER: E IA 7021033-0-0 A

SCALE 1/1 SHEET 1 OF 1

REVISION HISTORY

ECO NUMBER	DATE
	RELEASED

7021033-0-0

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FIELD MAINTENANCE PRINT SET

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TABLE OF CONTENTS

B-TC-1134A-Ø-1	FIELD MAINTENANCE PRINT SET (1134A)
E-UA-1134A-Ø-Ø	UNIT ASSEMBLY (1134A)
K-PL-1134A-Ø-DBP	PARTS LIST (1134A)
B-DD-1134A-Ø-Ø	DRAWING DIRECTORY (1134A)
MPØØ192	PRINT SET KD11-EA (COMPLETE SET)
D-CS-M93Ø1-Ø-1	UNIBUS TERMINATOR/BOOT STRAP
D-CS-M93Ø2-Ø-1	UNIBUS TERMINATOR
MPØØØ17	PRINT SET KY11-LA (COMPLETE SET)
MPØØØ15	PRINT SET KY11-LB (COMPLETE SET)
MPØØ1Ø6	PRINT SET DL11-W (COMPLETE SET)
B-CS-M785Ø-Ø-1	PARITY MODULE
~~B-CS-G727-Ø-1~~	~~GRANT CONTINUITY~~
MPØØØ21	PRINT SET MS11-E (COMPLETE SET)
MPØØØ32	PRINT SET MM11-D (COMPLETE SET)
MP00317	PRINT SET MM11-YP (COMPLETE SET)
B-DD-DD11-P	DRAWING DIRECTORY DD11-P (COMPLETE SET)
MPØØØ18	PRINT SET BA11-L (COMPLETE SET)
E-UA-BA11-K-Ø	UNIT ASSY BA11-K
A-PL-BA11-K-Ø	UNIT ASSY BA11-K (PL)
B-DD-BA11-K	DRAWING DIRECTORY BA11-K
MPØØ27Ø	PRINT SET 1134A P.S. (COMPLETE SET)
C-IA-7011413-0-0	EXTERNAL BOOT CABLE
C-IA-7011411-0-0	CONSOLE CABLE
D-IA-7011992-0-0	CONSOLE POWER HARNESS
A-PL-1134A-Ø-4	SHIPPING LIST (1134A)
D-CS-M9312-0-1	UNIBUS TERM. BOOT STRAP
MP00672	PRINT SET MSII-L (COMPLETE SET)
D-UA-G7273-0-0	BUS GRANT/NPR GRANT CARD

UNIT VARIATIONS COVERED BY THIS PRINT SET	120V	240V
5.25 Box	1134A-[illegible]	1134A-DD
	1134A-HC	1134A-HD
	1134A-LC	1134A-LD
	1134A-MC	1134A-MD
	1134A-JC	1134A-JD
	1134A-WC	1134A-WD
	1134A-XC	1134A-XD
	1134A-YC	1134A-YD
	1134A-ZC	1134A-ZD
10.5 Box	1134A-DH	1134A-DJ
	1134A-HH	1134A-HJ
	1134A-LH	1134A-LJ
	1134A-MH	1134A-MJ
	1134A-DE	1134A-DF
	1134A-HE	1134A-HF
	1134A-LE	1134A-LF
	1134A-ME	1134A-MF
	1134A-JH	1134A-JJ
	1134A-JE	1134A-JF
	1134A-WE	1134A-WF
	1134A-XE	1134A-XF
	1134A-YE	1134A-YF
	1134A-ZE	1134A-ZF

1134A
Field Maintenance Print Set

Digital Equipment Corporation

PRINT SET ORDER NO.
MPØØ19Ø

REVISIONS	REV.	CHG. NO.	DATE
	A	1134A-7	12-77
	B	1134A-8	2-78
	C	1134A-12	3-81

USED ON OPTION/MODEL	

SHEET 1 OF 1

DRN.	D. HEALY	DATE	NOV 76
CHK'D	D. HEALY	DATE	NOV 76
PROJ. ENG.	DAVE MOBERLY	DATE	13JAN77
FIELD SERV.	ROY M EVANS	DATE	13JAN77

digital

TITLE: 1134A FIELD MAINTENANCE PRINT SET

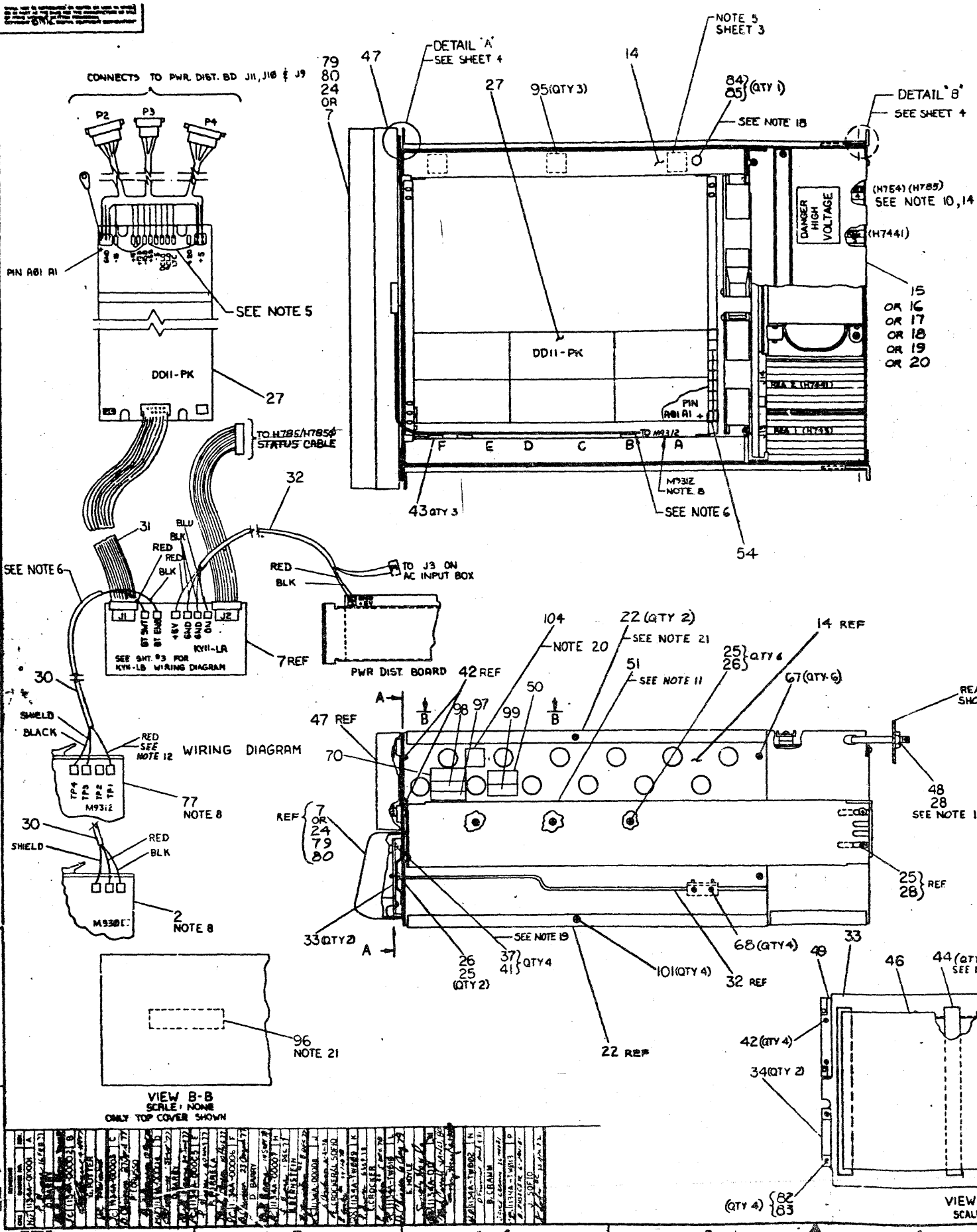
SIZE	CODE	NUMBER	REV.
B	TC	1134A-Ø-1	C

DIST.

EN-0124-16-M679-(32)

DRB 124

TW



NOTES:

1. CAUTION: OFF SHEET PARTS LIST EXISTS SEE C-PL-1134A-0-0
2. SEE DD11-P MODULE UTILIZATION DRAWING FOR MODULE PLACEMENT INFORMATION.
3. FOR ADDITIONAL INFORMATION REFER TO E-UA-BA11-K-0.
4. TIGHTEN ALL SYSTEM UNIT MOUNTING SCREWS TO 13 IN LBS WITH A TORQUE SCREW DRIVER UNLESS OTHERWISE NOTED.
5. WHEN THE DD11-PK IS USED WITH A BA11-K EXPANSION BOX WITHOUT BATTERY BACK UP (IE. NO 785 OR 7850), INSTALL THE THREE JUMPERS SHOWN:
   A) -15 TO -15B
   B) +15 TO +15B
   C) +5 TO +5B (SEE NOTE 16)
   USE #20 INSULATED BUS WIRE ON SIDE 2. THIS WILL PROVIDE POWER TO THE MOS MEMORY VOLTAGE RAILS.
6. LOOP THE M9312 CABLE ITEM #30 UNDER THE CABLE HOLD DOWN BAR. (SERVICE LOOP)
7. TIE DOWN P16, PART OF ITEM # 14, WITH TWO TIE WRAPS (ITEM # 55 WHEN H754 IS NOT USED.
8. EITHER M9312 OR M9301 MAYBE USED BUT NOT BOTH.
9. CUTOUT IN FILTER ITEM #46 FOR ROUTING OF CABLES ITEM # 32 & 30.
10. H754 REGULATOR AVAILABLE ONLY IN CORE MEMORY SYSTEMS.
11. ITEMS 48 & 51 ARE INSTALLED AT F, A, AND T.
12. IN PDP 1134A SYSTEMS WITHOUT BATTERY BACKUP (OPTION H775) THE TP4 CONNECTION TO THE M9312 WILL CAUSE BOOTS ON ALL POWER RESTARTS. IF BOOTS ON POWER RESTARTS ARE NOT DESIRED, REMOVE THE TP1 CONNECTION, INSULATE THE CABLE TERMINAL AND TIE IT BACK ON ITSELF WITH A TIE WRAP.
13. REPLACE FOAM STRIPS WITH ITEM 44.
14. THE H785 IS USED FOR BATTERY BACKUP OF MOS MEMORY ONLY, IF THE H785 IS INSTALLED, REMOVE NOTE 5 JUMPERS AND ADD ITEM #69 FROM J2 OF THE KY11 TO THE STATUS CABLE OF THE H785 POWER SUPPLY.
15. ~~USE EXISTING HARDWARE ON POWER SUPPLY ASSEMBLY IN 4 PLACES.~~
16. BA11-K'S THAT USE THE 5410844-TA-1 POWER DISTRIBUTION (IE, 1134A, 1134 WITH FPP11-AL) AND SOME 1104'S) AND HAVE ONE DD11-CK (OR AN ADDITIONAL DD11-DK) CAN ONLY HAVE THE +5 TO +5B JUMPER IN ONE OF THE BACK PANELS. IF TWO OF THE BACK PANELS HAVE THE JUMPER TIE, THE +5V REGULATORS MAY BE CONNECTED TOGETHER. TYPICALLY THIS JUMPER IS IN THE FIRST BACK PANEL, BUT IT MAY BE PLACED IN ONE OF THE OTHER BACK PANELS IF DEEMED NECESSARY FOR POWER REQ.
17. GND THE GRN W/YELLOW TRACE CHASSIS GND TERMINAL WITH TWO WIRE ON THE STANDOFF. GND THE OTHER TERMINAL TO THE STUD ON THE AC INPUT ASSY. GND THE AC INPUT ASSY. TO THE STUD ON THE H765 P.S.
18. TIGHTEN SCREW TO 30 IN-LBS WITH A TORQUE SCREWDRIVER.
19. TIGHTEN SCREW TO 20 IN-LBS WITH A TORQUE SCREWDRIVER.
20. ASSEMBLE ITEM NO. 93 USING EXITING HARDWARE.
21. IF DECAL 7414727 IS USED IT MAY BE NECESSARY TO USE THE FOLLOWING TAPE IN ORDER TO MAKE IT ADHERE TO THE COVER. RONTUNDA 4906 IT CAN BE PURCHASED FROM
    RONTUNDA N.A.
    41 CHESTNUT ST
    BYRAN CONNECTICUT. 06830
22. NOT TO BE PUT ON 50 HERTZ MACHINES

10½" BOX (BA11-K)

OFF SHEET PARTS LIST EXISTS
SEE K-PL- M34A-0-DBP (20692P.PLS)

TITLE	UNIT ASSY 1134A
SIZE	B
CODE	UA
NUMBER	1134A-0-0
REV	P
SEE PARTS LIST	
SCALE	
SHEET	1 OF 4

NOTES:

1. UNIBUS AND I/O CABLE HOLD DOWN BAR TO BE USED TO CLAMP ALL EXITING CABLES.
2. FOR RACK MOUNTING INSTRUCTION & DIM SEE DRAWING NO E-UA-BA11-L-0
3. FOR MODULE PLACEMENT RULES REFER TO DRAWING D-MU-DD11-P-2
4. DISCONNECT WRAP AROUND GROUND WIRE BEFORE REMOVING FROM ENCLOSURE.
5. FOR WIRING INFORMATION OF KY11-LB (PROGRAMMER CONSOLE) SEE SHEET 3 OF 4.
7. THIS JUMPER IS REQUIRED ON ALL CS-5411497 REV E (KY11LA CONSOLE) MODULES USED IN BA11-L BOXES.
8. EITHER M9312 OR M9301 MAYBE USED BUT NOT BOTH
9. ITEM 68 NOT SHOWN.
10. NOT TO BE PUT ON 50 HERTZ MACHINES

GND STRAP PART OF ITEM #10, 11, 12 OR 13 (BA11-L) (SEE NOTE 4)

AC PRW CORD RECPTICAL

(QTY 2) 36, 75

74

RED STRIPE

CABLE PRESENT ONLY IN SYSTEMS WITH H785 BATTERY BACK UP REGULATOR

21 GND JUMPER SEE NOTE 7

GRN/YEL

SEE NOTE 5

CONSOLE BD KY11-LA-1

36, 40 BLK WIRE

30 RED WIRE

31 RED STRIPE

7 OR 24 79 80

81

(QTY 4) 35, 41

27

A B C D E F

43 REF (QTY 2) SERVICE LOOP

M9312 SLOT A,B@9 SEE NOTE 8

SEE NOTE 1

2

RED WIRE SEE NOTE 8

SHIELD

TP1 TP2 TP3 TP4

BLK WIRE

45

TO BATTERY BACK UP OPTION HTTS ONLY THIS IS NOT A TTY CONNECTOR

78 (QTY 2)

54 30 REF 10 OR 11 OR 12 OR 13 } REF 81 (QTY 3)

SEE NOTE 2/3 SHT 4

SEE DETAIL-C/D SHEET 4

(QTY 2) 36, 75

74

30 REF 81 SEE NOTE 3,9

7 OR 24 79 80 } REF

POWER CONT

ONE DOUBLE SYST UNIT (8 SLOT)

J5

J1 1ST SYST UNIT (4 SLOT)

J2

J3 2ND SYST UNIT (4 SLOT)

J4

VIEW A-A SCALE: NONE

1 — M8266
2 — M8265
3 — M9312
4
5
6
7
8
9

M9302 ITEM #4 SLOT AB@9 ON DD11-P OR BC11A UNIBUS OUT CABLE

10 OR 11 OR 12 OR 13

99

70 REF

97 CSA
50 P.A.T.
98 CONV.
104 FCC
NOTE 10

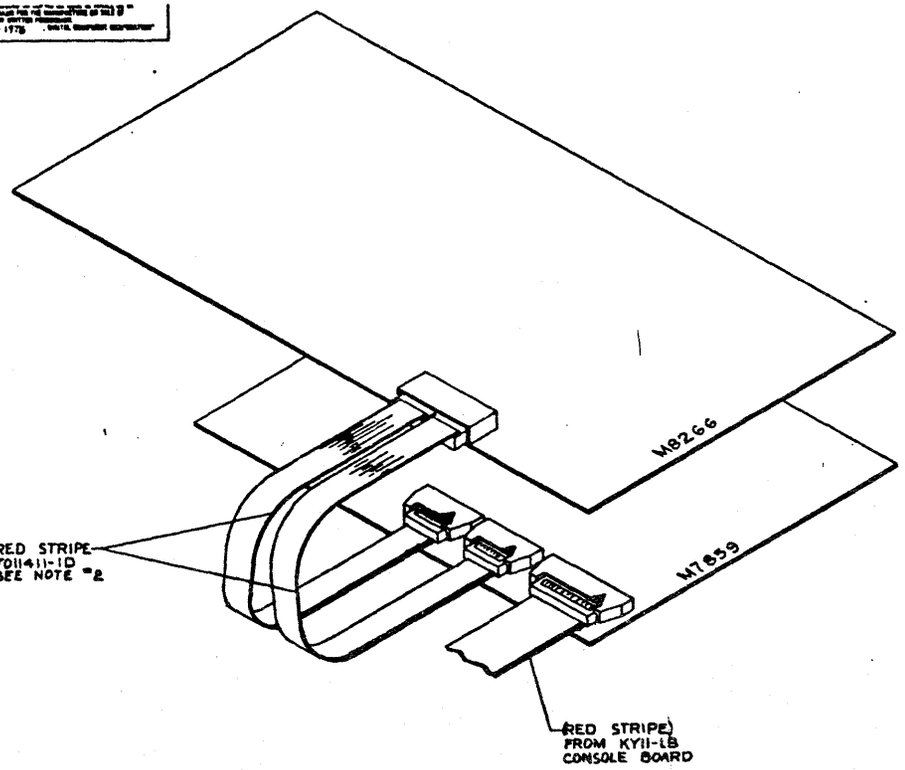
LISTED EQP EQUIP 708A
NFPA TYPE II

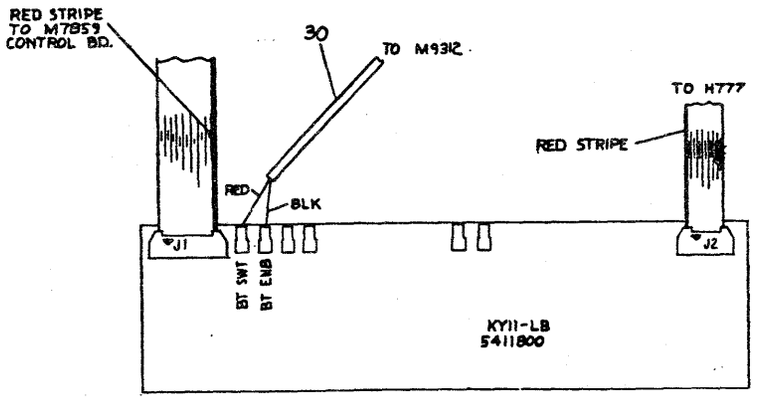
VIEW B-B SCALE: NONE ROTATED AS SHOWN

5 1/4 BOX (BA11-L)

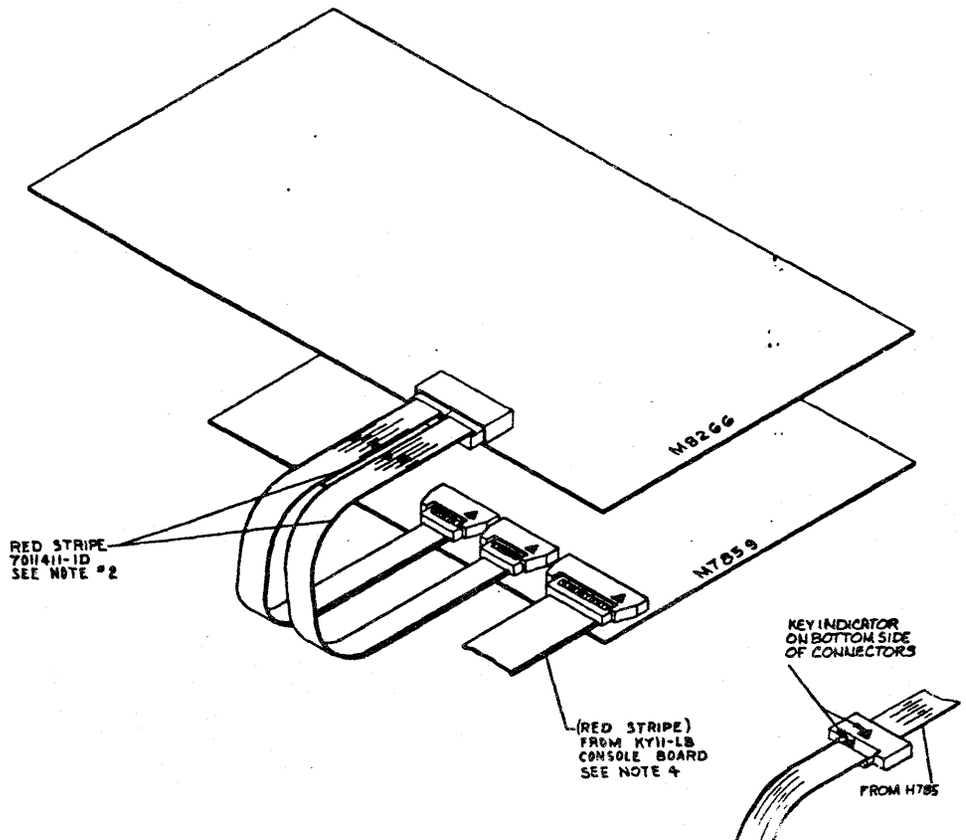
FIRST USED ON	1134A
TITLE	UNIT ASS'Y 1134A
SEE PARTS LIST	1134A-0-0

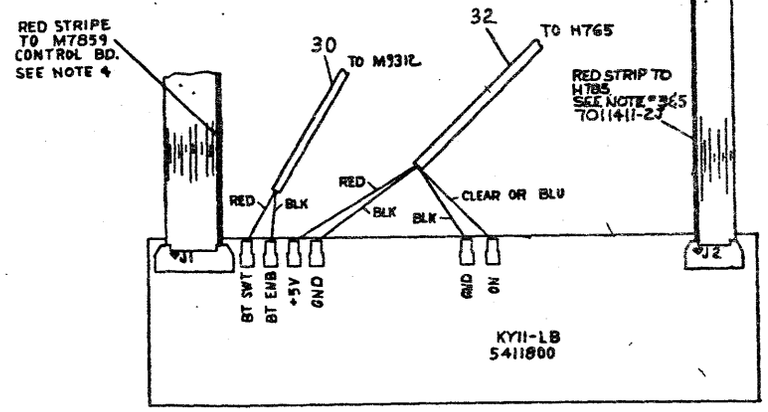
1134A-0-0





BA11-L
5 1/4 MTG. BOX





BA11-K
10 1/2 MTG. BOX

1. THE M7859 PROGRAMERS CONSOLE INTERFACE MODULE MUST BE INSTALLED INTO AN SPC SLOT.
2. PART OF THE KY11-LB OPTION
3. PRESENT ONLY IN SYSTEMS WITH H785 BATTERY BACK UP REGULATOR.
4. KY11-LB CABLE IS TO BE RUN BEHIND THE CONSOLE BUT IN FRONT OF THE FILTER TO THE RIGHT SIDE OF THE MACHINE THEN THRU THE HOLE IN THE FILTER AND UP OVER THE CPU MODULES TO THE M7859.
5. SERVICE LOOP TO BE LEFT BETWEEN ITEM NO.95 AND THE H785, ALSO ALL EXTRA CABLE LENGTH TO BE FOLDED BETWEEN THE MIDDLE AND FRONT MUST HOLD DOWN (ITEM NO.95)

REVISIONS		
ZONE	COMMAND NO.	REV

TITLE	UNIT ASSY 1134A		
SIZE/CODE	NUMBER		REV.
E UA	1134A-0-0		P
SCALE NONE	SHEET 2 OF 4	DIST.	
		TW	

1134A-0-0 P

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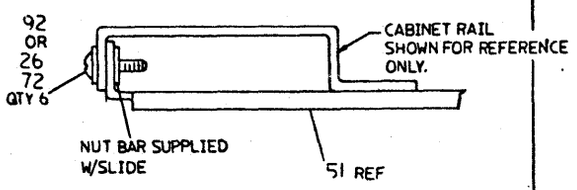
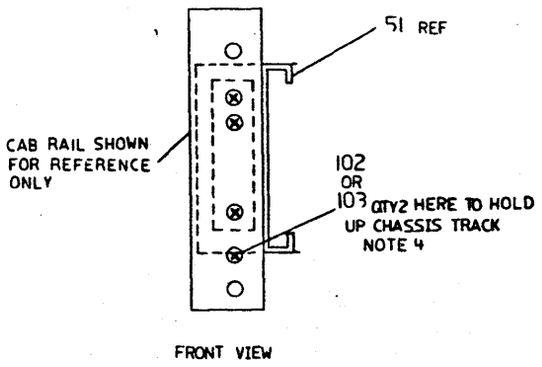
SCALE:NONE

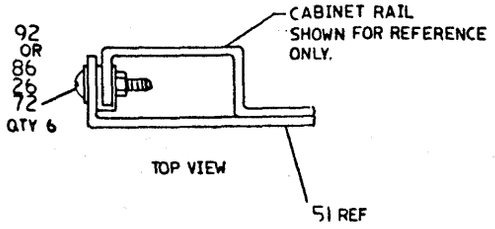
CHASSIS TRACK SLIDE





FRONT VIEW

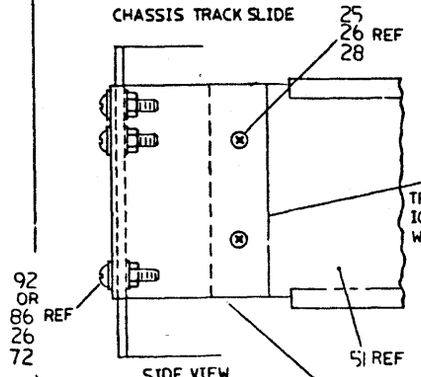
ACCURIDE SLIDE



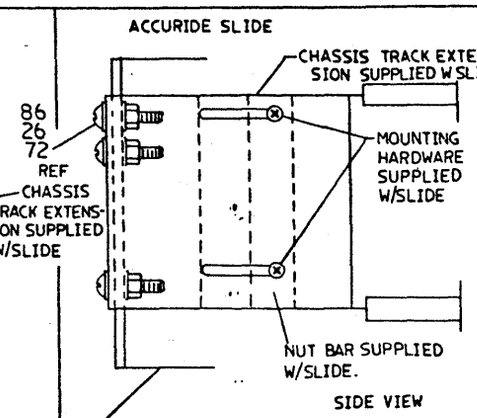
DETAIL C
SCALE:NONE

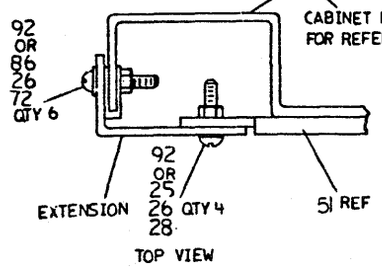
DETAIL B
SCALE:NONE

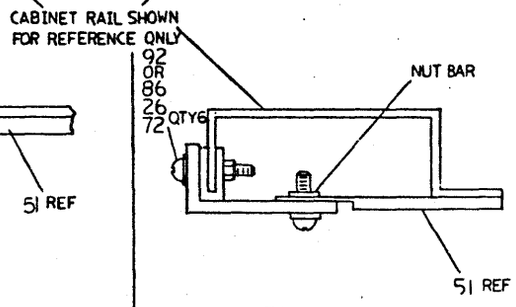
CHASSIS TRACK SLIDE



ACCURIDE SLIDE

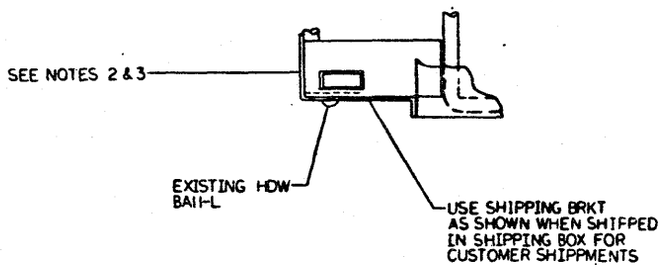


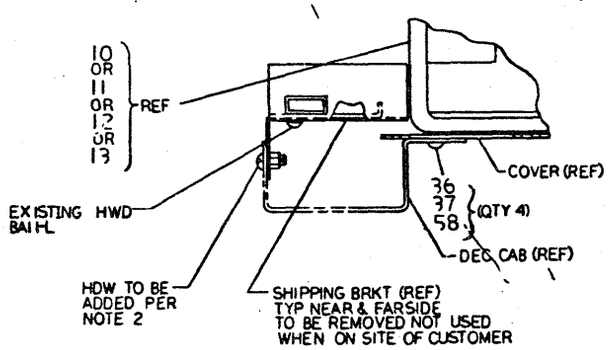




1. THESE ITEMS ARE INSTALLED AT FA&T.
2. FOR CAB MTG. REMOVE SHIPPING BRKTS AND INSTALL AS SHOWN IN DETAIL 'D' USING 2 #10-32 X.5 TRUSS HD SCREWS & 2 #10-32 KEP NUTS (TYP BOTH SIDES) PLUS EXSISTING HDW AS INDICATED IN DETAIL 'D'.
3. FOR RACK MOUNTING INSTRUCTION & UIM. SEE DRAWING E-UA-BAII-L-0.
4. EITHER A NUMBER 6 OR NUMBER 8 SCREW MAYBE USED. THE FINAL CAB CONFIGURATION SHALL DETERERMINE WHICH SCREW IS TO BE USED.

DETAIL D
SCALE:NONE





REVISION HISTORY		
DATE	ECO NUMBER	REV

TITLE	UNIT ASS'Y 1134A	DOCUMENT NUMBER	
		E UA 1134A-0-C	P
		SCALE NONE	SHEET 4 OF 4

UA 1134A-0-0

AUTOMATED BY PRTLST.3L(40) — P A R T S L I S T — SHEET A1 OF A3

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION DC	DD	HC	HD	LC	LD	MC	MD	JC	JD	DH	DJ
1	1	A-PL-KD11-0-0	0KD11-EA	11/34 CPU	1	1	1	1	1	1	1	1	1	1	1	1
2	2	SEE NOTE 3	M9301-YF	M9301 W BOOT FOR PC11,RP02-6,RS0	1	1	1	1	1	1	1	1	1	1	1	1
3	3	D-CS-M9302-0-0	M9302-00	UNIBUS TERMINATOR	1	1	1	1	1	1	1	1	1	1	1	1
4	4	BLANK			0	0	0	0	0	0	0	0	0	0	0	0
5	5	A-PL-DL11-0-0	0DL11-W	M7856(DL11-A THRU -D W LINE FREQ	0	0	0	0	0	0	0	0	0	0	0	0
6	6	D-CS-M7850-0-1	M7850-00	MEM PARITY BOARD FOR G651	1	1	1	1	1	1	1	1	1	1	1	1
7	7	D-UA-KY11-0-0	0KY11-LA	OPERATORS CONSOLE	1	1	1	1	1	1	1	1	1	1	1	1
8	8	A-PL-MS11-0-0	0MS11-JP	16K UNIBUS MOS MEM/PARITY	1	1	0	0	2	2	0	0	0	0	1	1
9	9	D-UA-MM11-0-0	0MM11-DP	16K CORE MEMORY	0	0	1	1	0	0	2	2	0	0	0	0
10	10	E-UA-BA11-0-0	0BA11-LK	5.25" BOX W H777-CA PS,115V	0	0	1	0	0	0	1	0	1	0	0	0
11	11	E-UA-BA11-0-0	0BA11-LL	5.25" W H777-CB PS,230V	0	0	0	1	0	0	0	1	0	1	0	0
12	12	E-UA-BA11-0-0	0BA11-LM	5.25" BOX W H777-DA PS, 115V	1	0	0	0	1	0	0	0	0	0	0	0
13	13	E-UA-BA11-0-0	0BA11-LN	5.25" BOX W H777-DB PS,240V	0	1	0	0	0	1	0	0	0	0	0	0
14	14	E-UA-BA11-0-0	0BA11-KA	10.5"BOX,CHASSIS ONLY	0	0	0	0	0	0	0	0	0	0	1	1
15	15	E-UA-7013323-0-0	7013323-00	MOSS POWER SUPPLY 115V W/O BATTE	0	0	0	0	0	0	0	0	0	0	1	2
16	16	E-UA-7013323-0-0	7013323-01	MOSS POWER SUPPLY 115V W/BATTERY	0	0	0	0	0	0	0	0	0	0	0	0
17	17	E-UA-7013323-0-0	7013323-02	CORE POWER POWER SUPPLY 115V	0	0	0	0	0	0	0	0	0	0	0	0
18	18	E-UA-7013323-0-0	7013323-03	MOSS POWER SUPPLY 230V W/O BATTE	0	0	0	0	0	0	0	0	0	0	0	1
19	19	E-UA-7013323-0-0	7013323-04	MOSS POWER SUPPLY 230V W/BATTERY	0	0	0	0	0	0	0	0	0	0	0	0
20	20	E-UA-7013323-0-0	7013323-05	CORE POWER SUPPLY 230V	0	0	0	0	0	0	0	0	0	0	0	0
21	21	C-IA-7012752-0-0	7012752-00	CABLE JUMPER (BA11-L)	1	1	1	1	1	1	1	1	1	1	0	0
22	22	D-IA-7009768-0-0	7009768-00	COVER CHASSIS (BA11-K)	0	0	0	0	0	0	0	0	0	0	2	2
23	23	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
24	24	D-UA-KY11-0-0	0KY11-LB	CONSOLE ASSY PROGRAMERS	0	0	0	0	0	0	0	0	0	0	0	0
25	25	SEE NOTE 5	9006071-03	SCREW,TRUS,PHIL, 10-32X 3/8	0	0	0	0	0	0	0	0	0	0	12	12
26	26	SEE NOTES 5,6	9007651-00	WASHER, LOCK, EXTERNAL TOOTH #10	0	0	0	0	0	0	0	0	0	0	24	24
27	27	A-PL-DD11-0-0	0DD11-PK	DD11-DK W/2SLOTS FOR KD11-E	1	1	1	1	1	1	1	1	1	1	1	1
28	28	SEE NOTE 5	9006565-00	NUT,KEP 10-32X 3/8 AF	0	0	0	0	0	0	0	0	0	0	6	6
29	29	B-MU-DD11-0-P	0DD11-P	BACKPLANE NINE SLOT	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF
30	30	C-IA-7011413-0-0	7011413-3F	EXTERNAL CABLE [M9301]	1	1	1	1	1	1	1	1	1	1	1	1

REVISION HISTORY

ENG	ECO NUMBER	REV
BC	INITIAL	N
BC	12	N
JS	1134A-TW012A	N
	1134A-TW013	P

BASIC PART NO: 1134A

SECTION A OF E

SECTION. VARIATION INDEX

[A] DC,DD,HC,HD,LC,LD, MC,MD,JC,JD,DH,DJ

[B] HH,HJ,LH,LJ,MH,MJ, DE,DF,HE,HF,LE,LF

[C] ME,MF,JH,JJ,JE,JF, XX,XY,YX,YY,WC,WD

[D] WE,WF,XC,XD,XF,XE, YC,YD,YE,YF,ZC,ZD

[E] ZE,ZF,XW,XZ,YW,YZ

[F]

DRN: B.BLODGETT — DATE: 16-JAN-80

CHK'D: D.HEALY — DATE: 16-JAN-80

DES.ENG.: R BARRY — DATE: 16-JAN-80

RESP.ENG.: ERNIE CROCKER — DATE: 16-JAN-80

MFG.ENG.: J ALVES — DATE: 16 JAN 80

ASSEMBLY NUMBER: E-UA-1134A-0-0

TOP DOCUMENT NUMBER: E-UA-1134A-0-0

DIGITAL

TITLE: PARTS LIST

UNIT ASSY. 1134A

DOCUMENT NUMBER

SIZE	CODE	NUMBER	REV
K	PL	1134A-0-DBP	P

FILE NAME: Z0592P.PLS

EDIT #: 3

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172725 / E020-07846

TW

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION DC	DD	HC	HD	LC	LD	MC	MD	JC	JD	DH	DJ
31	31	C-IA-7011411-0-0	7011411-0J	3M CABLE CONSOLE/BACKPLANE	1	1	1	1	1	1	1	1	1	1	1	1
32	32	D-IA-7011992-0-0	7011992-00	PDP 1104/1134 CONSOLE POWER HARN	0	0	0	0	0	0	0	0	0	0	1	1
33	33	B-MD-7417628-0-0	7417628-00	BEZEL BRACKET	0	0	0	0	0	0	0	0	0	0	2	2
34	34	B-MD-7417627-0-0	7417627-00	ADAPTOR BRACKET-BEZEL	0	0	0	0	0	0	0	0	0	0	2	2
35	35		9006043-03	SCREW,TRUS,PHIL, 8-32X 1	4	4	4	4	4	4	4	4	4	4	4	4
36	36		9008072-00	WASHER, LOCK, EXTERNAL TOOTH #8	5	5	5	5	5	5	5	5	5	5	5	5
37	37		9006037-03	SCREW,TRUS,PHIL, 8-32X 3/8	4	4	4	4	4	4	4	4	4	4	4	4
38	38	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
39	39	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
40	40		9009799-00	SCREW, FILLISTER HD 8-32 X .31	1	1	1	1	1	1	1	1	1	1	0	0
41	41		9006634-00	WASHER,LOCK,INT,.2300D X .172ID	4	4	4	4	4	4	4	4	4	4	8	8
42	42		9006070-02	SCREW,FLAT,PHIL, 10-32X 5/16	0	0	0	0	0	0	0	0	0	0	4	4
43	43		9009771-03	CLAMP, CABLE, PVC, 3/16 ID	2	2	2	2	2	2	2	2	2	2	3	3
44	44		1211336-02	TAPE FOR FOAM AIR FILTERS,SEMIPE	0	0	0	0	0	0	0	0	0	0	A/R	A/R
45	45		1212707-00	FILTER,AIR FOAM EXPAND 030PPI	1	1	1	1	1	1	1	1	1	1	0	0
46	45		1212392-02	FILTER,AIR FOAM 030PPI	0	0	0	0	0	0	0	0	0	0	1	1
47	47	D-UA-H950-0-0	0H950-PB	COVER PANEL,5-1/4" W NO LATCHES	0	0	0	0	0	0	0	0	0	0	1	1
48	48	C-MD-7413659-0-0	7413659-00	BRACKET SHIPPING	0	0	0	0	0	0	0	0	0	0	1	1
49	49		1209224-00	LATCH, NORYL PLASTIC	0	0	0	0	0	0	0	0	0	0	2	2
50	50	A-DC-7409478-0-0	7409478-00	DECAL PAT-11/35 20/SHEET	1	1	1	1	1	1	1	1	1	1	1	1
51	51	"NOTES 1,2"	1211825-01	SLIDE,CHASSIS TITLT 3POSITION	0	0	0	0	0	0	0	0	0	0	1	1
52	52	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
53	53	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
54	54	B-DC-7417820-0-0	7417820-00	DECAL PDP1134A MOD LAYOUT	1	1	1	1	1	1	1	1	1	1	1	1
55	55		9007880-00	TIE,CABLE BUNDL DIA 0-1.14"=101	2	2	2	2	2	2	2	2	2	2	2	2
56	56		1209340-00	MATE-N-LOK 08SKT(1X08). HSG	0	0	0	0	0	0	0	0	0	0	1	1
57	57	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
58	58		9006660-00	WASHER, FLAT, .375 O.D. X .187 I	4	4	4	4	4	4	4	4	4	4	0	0
59	59	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
60	50	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
61	51	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
62	52	A-PS-3700235-0-0	3700235-00	INSTR PKG COMPUTER 11/34 10.5IN	1	1	1	1	1	1	1	1	1	1	1	1
63	53	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
64	54	A-PS-3700169-0-0	3700169-00	INSTR PKG COMPUTER CUSHIONED 11/	1	1	1	1	1	1	1	1	1	1	1	1
65	55	A-PS-3700197-0-0	3700197-00	INSTR PKG COMPUTER PDP11/04 INTE	1	1	1	1	1	1	1	1	1	1	0	0
66	56	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
67	57		9009599-00	SCREW, PHILLIPS FLAT HD, 10-32 X	0	0	0	0	0	0	0	0	0	0	6	6
68	58		9006020-02	SCREW,FLAT,PHIL, 6-32X 1/4	0	0	0	0	0	0	0	0	0	0	4	4
69	59	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
70	70	A-PS-3513210-0-0	3613210-00	LABEL, UL. FOIL ADH BACK	1	1	1	1	1	1	1	1	1	1	1	1
71	71	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
72	72	"NOTE 5"	9006073-03	SCREW,TRUS,PHIL, 10-32X 1/2	0	0	0	0	0	0	0	0	0	0	12	12
73	73	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
74	74	B-MD-7418879-0-0	7418879-00	STRIP BEARING	2	2	2	2	2	2	2	2	2	2	0	0
75	75		9006039-03	SCREW,TRUS,PHIL, 8-32X 1/2	4	4	4	4	4	4	4	4	4	4	0	0
76	76	D-UA-MM11-0-0	0MM11-YP	32K 18BIT MEMORY ONE 1" BOARD	0	0	0	0	0	0	0	0	1	1	0	0
77	77	D-CS-M9312-0-1	M9312-00	BOOTSTRAP TERMINATOR W 5 EMPTY R	1	1	1	1	1	1	1	1	1	1	1	1
78	78	C-MD-7414962-0-0	7414962-00	BRKT FILTER SUPPORT	2	2	2	2	2	2	2	2	2	2	0	0

SIZE	CODE	DOCUMENT NUMBER	REV
K	PL	1134A-0-DBP	P

TITLE: UNIT ASSY. 1134A

SECTION A OF E

DIGITAL

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION DC	DD	HC	HD	LC	LD	MC	MD	JC	JD	DH	DJ
79	79	E-MD-7415599-0-0	7415599-00	BEZEL (DIE CAST)	1	1	1	1	1	1	1	1	1	1	1	1
80	80	D-MD-7415656-0-0	7415656-00	COVER PROTECTIVE BEZEL	1	1	1	1	1	1	1	1	1	1	1	1
81	81		9007031-00	TIE,CABLE BUNDL.DIA 0- 3/4"=101	3	3	3	3	3	3	3	3	3	3	0	0
82	82		9006636-00	WASHER,LOCK,INT,.380OD X .200ID	0	0	0	0	0	0	0	0	0	0	4	4
83	83		9006071-01	SCREW,PAN,PHIL 10-32X 3/8 SS	0	0	0	0	0	0	0	0	0	0	4	4
84	84		9006635-00	WASHER,LOCK,INT,.310OD X .200ID	0	0	0	0	0	0	0	0	0	0	1	1
85	85		9006231-09	SCREW,HEX 10-32X 1/2	0	0	0	0	0	0	0	0	0	0	1	1
86	86	"NOTE 7"	9007786-00	RETAINER, U-NUT, 10-32	0	0	0	0	0	0	0	0	0	0	12	12
87	87	"NOTE 11"	23248F1-00	F1-01	1	1	1	1	1	1	1	1	1	1	1	1
88	88		1209856-02	CLIP, MODULE HOLDER W/O SEPARA	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	0	0
89	89	K-PL-M7891-0-0	M7891-BC	MS11-LB,64K X 18,PARITY LOGIC,FU	0	0	0	0	0	0	0	0	0	0	0	0
90	90	K-PL-M7891-0-0	M7891-DC	MS11-LD: 128K 18-BIT,PARITY LOG,	0	0	0	0	0	0	0	0	0	0	0	0
91	91	"NOTE 9"	G7273-00	BUS GRANT & NON-PROCESSOR GRANT	6	6	5	6	6	6	6	6	6	6	6	5
92	92		9009700-00	SCREW,TRUS,PHIL,SEMS10-32X .500L	0	0	0	0	0	0	0	0	0	0	16	16
93	93		9007084-00	CLAMP,CABLE,SCREW MTD. 7/15"	0	0	0	0	0	0	0	0	0	0	1	1
94	94	"NOTE 8"	9007032-00	TIE,CABLE BUNDL.DIA 0-1-3/4"=101	0	0	0	0	0	0	0	0	0	0	3	3
95	95	"NOTE 8"	9008264-00	MOUNT, CABLE TIE, ADHESIVE BACKE	0	0	0	0	0	0	0	0	0	0	3	3
96	96	A-PS-3617996-01-0	3617996-01	LABEL,OPT/MODULE 1134A	1	1	1	1	1	1	1	1	1	1	1	1
97	97	"NOTE 4"	3613211-01	DECAL,CLEAR PREPRINTED CSA 1-1/4	1	1	1	1	1	1	1	1	1	1	1	1
98	98	A-PS-3615946-00-0	3615946-00	LABEL,PRODUCT VARIATION	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
99	99	"NOTE 4"	7416197-00	LABEL, UL	1	1	1	1	1	1	1	1	1	1	1	1
100	100	"NOTE 1"	7008360-01	CABLE ASSY	0	0	0	0	0	0	0	0	0	0	0	0
101	101		9000049-11	SCREW,TRUS,PHIL,SEM 6-32X .375L	0	0	0	0	0	0	0	0	0	0	4	4
102	102	"NOTE 10"	9000049-12	SCREW,TRUS,PHIL,SEMS 8-32X .500L	0	0	0	0	0	0	0	0	0	0	2	2
103	103	"NOTE 10"	9000049-13	SCREW,TRUS,PHIL,SEM 6-32X .500L	0	0	0	0	0	0	0	0	0	0	2	2
104	104	"NOTE 12"	3617880-01	LABEL,NON-COMPLIANT FCC	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
105	105	B-PL-BA11-L-5		INSTALLATION KIT 5.25	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF
106	106	B-PL-BA11-K-2		INSTALLATION KIT 10.5	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF

107 NOTE: 1.SUPPLIED AND INSTALLIED AT FA&T
108 NOTE: 2.1211825-02 IS AN ALLOWABLE SUBSTITUTE
109 NOTE: 3.EITHER M9312 OR M9301 MAYBE USED BUT NOT BOTH
110 NOTE: 4. USE WHITE ON CLEAR ON BA11-K BOX AND BLACK ON CLEAR ON BA11-L BOX
111 NOTE: 5.DECREASE QTY BY 4 WHEN USING 1211825-01
112 NOTE: 6.ITEM NO. 92 IS AN ALLOWABLE SUBSTITUTE FOR ITEM NOS.72 AND 26
113 NOTE: 7.DECREASE QTY BY 6 WHEN USING 1211825-02
114 NOTE: 8.REQUIRED ONLY WITH ITEM NOS. 16 AND 19
115 NOTE: 9.G727 IS AN ALLOWABLE SUBSTITUTE FOR ITEM NO.91
116 NOTE: 10.DECREASE QTY BY 2 WHEN USING 1211825-01
NOTE: 11.TO BE SHIPPED WITH M9312 ONLY
NOTE: 12.NOT PUT ON 50 HERTZ MACHINES

D	I	G	I	T	A	L	TITLE	SECTION A OF E	SIZE	CODE	DOCUMENT NUMBER	REV.
							UNIT ASSY. 1134A		K	PL	1134A-0-DBP	P

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION HH	HJ	LH	LJ	MH	MJ	DE	DF	HE	HF	LE	LF
1	1	A-PL-KD11-0-0	0KD11-EA	11/34 CPU	1	1	1	1	1	1	1	1	1	1	1	1
2	2	SEE NOTE 3	M9301-YF	M9301 W BOOT FOR PC11,RP02-6,RS0	1	1	1	1	1	1	1	1	1	1	1	1
3	3	D-CS-M9302-0-0	M9302-00	UNIBUS TERMINATOR	1	1	1	1	0	1	1	1	1	1	1	1
4	4	BLANK			0	0	0	0	0	0	0	0	0	0	0	0
5	5	A-PL-DL11-0-0	0DL11-W	M7856(DL11-A THRU -D W LINE FREQ	0	0	0	0	0	0	1	1	1	1	1	1
6	6	D-CS-M7850-0-1	M7850-00	MEM PARITY BOARD FOR G651	1	1	1	1	1	1	1	1	1	1	1	1
7	7	D-UA-KY11-0-0	0KY11-LA	OPERATORS CONSOLE	1	1	1	1	1	1	0	0	0	0	0	0
8	8	A-PL-MS11-0-0	0MS11-JP	16K UNIBUS MOS MEM/PARITY	0	0	2	2	0	0	1	1	0	0	2	2
9	9	D-UA-MM11-0-0	0MM11-DP	16K CORE MEMORY	1	1	0	0	2	2	0	0	1	1	0	0
10	10	E-UA-BA11-0-0	0BA11-LK	5.25" BOX W H777-CA PS,115V	0	0	0	0	0	0	0	0	0	0	0	0
11	11	E-UA-BA11-0-0	0BA11-LL	5.25" W H777-CB PS,230V	0	0	0	0	0	0	0	0	0	0	0	0
12	12	E-UA-BA11-0-0	0BA11-LM	5.25" BOX W H777-DA PS, 115V	0	0	0	0	0	0	0	0	0	0	0	0
13	13	F-UA-BA11-0-0	0BA11-LN	5.25" BOX W H777-DB PS,240V	0	0	0	0	0	0	0	0	0	0	0	0
14	14	E-UA-BA11-0-0	0BA11-KA	10.5"BOX,CHASSIS ONLY	1	1	1	1	1	1	1	1	1	1	1	1
15	15	F-UA-7013323-0-0	7013323-00	MOSS POWER SUPPLY 115V W/O BATTE	0	0	1	0	0	0	0	0	0	0	1	0
16	16	E-UA-7013323-0-0	7013323-01	MOSS POWER SUPPLY 115V W/BATTERY	0	0	0	0	0	0	0	0	0	0	0	0
17	17	E-UA-7013323-0-0	7013323-02	CORE POWER POWER SUPPLY 115V	1	0	0	0	1	0	0	0	1	0	0	0
18	18	E-UA-7013323-0-0	7013323-03	MOSS POWER SUPPLY 230V W/O BATTE	0	0	0	1	0	0	0	1	0	0	0	1
19	19	E-UA-7013323-0-0	7013323-04	MOSS POWER SUPPLY 230V W/BATTERY	0	0	0	0	0	0	0	0	0	0	0	0
20	20	E-UA-7013323-0-0	7013323-05	CORE POWER SUPPLY 230V	0	1	0	0	0	1	0	0	0	1	0	0
21	21	C-IA-7012752-0-0	7012752-00	CABLE JUMPER (BA11-L)	0	0	0	0	0	0	0	0	0	0	0	0
22	22	D-IA-7009768-0-0	7009768-00	COVER CHASSIS (BA11-K)	2	2	2	2	2	2	2	2	2	2	2	2
23	23	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
24	24	D-UA-KY11-0-0	0KY11-LB	CONSOLE ASSY PROGRAMERS	0	0	0	0	0	0	1	1	1	1	1	1
25	25	SEE NOTE 5	9006071-03	SCREW,TRUS,PHIL, 10-32X 3/8	12	12	12	12	12	12	12	12	12	12	12	12
26	26	SEE NOTES 5,6	9007651-00	WASHER, LOCK, EXTERNAL TOOTH #10	24	24	24	24	24	24	24	24	24	24	24	24
27	27	A-PL-DD11-0-0	0DD11-PK	DD11-DK W/2SLOTS FOR KD11-E	1	1	1	1	1	1	1	1	1	1	1	1
28	28	SEE NOTE 5	9006565-00	NUT,KEP 10-32X 3/8 AF	6	6	5	5	5	5	6	6	5	5	6	5
29	29	B-MU-DD11-0-P	0DD11-P	BACKPLANE NINE SLOT	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF
30	30	C-IA-7011413-0-0	7011413-3F	EXTERNAL CABLE [M9301]	1	1	1	1	1	1	1	1	1	1	1	1

REVISION HISTORY			BASIC PART NO: 1134A													
ENG	ECO NUMBER	REV	SECTION B OF E	DRN: B.BLODGETT	DATE: 16-JAN-80		D	I	G	I	T	A	L			
	INITIAL	N	SECTION. VARIATION INDEX	CHK'D: D.HEALY	DATE: 16-JAN-80	TITLE PARTS LIST										
BC	12	N	[A] DC,DD,HC,HD,LC,LD, MC,MD,JC,JD,DH,DJ			UNIT ASSY. 1134A										
BC	1134A-TW012A	N	[B] HH,HJ,LH,LJ,MH,MJ, DE,DF,HE,HF,LE,LF	DES.ENG.: R BARRY	DATE: 16-JAN-80											
JS	1134A-TW013	P	[C] ME,MF,JH,JJ,JE,JF, XX,XY,YX,YY,WC,WD	RESP.ENG.: ERNIE CROCKER	DATE: 16-JAN-80	DOCUMENT NUMBER										
			[D] WE,WF,XC,XD,XF,XE, YC,YD,YE,YF,ZC,ZD			SIZE	CODE	NUMBER							REV	
			[E] ZE,ZF,XW,XZ,YW,YZ	MFG.ENG.: J ALVES	DATE: 16 JAN 80	K	PL	1134A-0-DBP							P	
			[F]	ASSEMBLY NUMBER: E-UA-1134A-0-0	TOP DOCUMENT NUMBER: E-UA-1134A-0-0	FILE NAME: Z0692P.PLS									EDIT # 3	

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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION HH	HJ	LH	LJ	MH	MJ	DE	DF	HE	HF	LE	LF
31	31	C-IA-7011411-0-0	7011411-0J	3M CABLE CONSOLE/BACKPLANE	1	1	1	1	1	1	0	0	0	0	0	0
32	32	D-IA-7011992-0-0	7011992-00	PDP 1104/1134 CONSOLE POWER HARN	1	1	1	1	1	1	1	1	1	1	1	1
33	33	B-MD-7417628-0-0	7417628-00	BEZEL BRACKET	2	2	2	2	2	2	2	2	2	2	2	2
34	34	B-MD-7417627-0-0	7417627-00	ADAPTOR BRACKET-BEZEL	2	2	2	2	2	2	2	2	2	2	2	2
35	35		9006043-03	SCREW,TRUS,PHIL, 8-32X 1	4	4	4	4	4	4	4	4	4	4	4	4
36	36		9008072-00	WASHER, LOCK, EXTERNAL TOOTH #8	0	0	0	0	0	0	0	0	0	0	0	0
37	37		9006037-03	SCREW,TRUS,PHIL, 8-32X 3/8	4	4	4	4	4	4	4	4	4	4	4	4
38	38	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
39	39	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
40	40		9009799-00	SCREW, FILLISTER HD 8-32 X .31	0	0	0	0	0	0	0	0	0	0	0	0
41	41		9006634-00	WASHER,LOCK,INT,.230OD X .172ID	8	8	8	8	8	8	8	8	8	8	8	8
42	42		9006070-02	SCREW,FLAT,PHIL, 10-32X 5/16	4	4	4	4	4	4	4	4	4	4	4	4
43	43		9009771-03	CLAMP, CABLE, PVC, 3/16 ID	3	3	3	3	3	3	3	3	3	3	3	3
44	44		1211336-02	TAPE FOR FOAM AIR FILTERS,SEMIPE	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
45	45		1212707-00	FILTER,AIR FOAM EXPAND 030PPI	0	0	0	0	0	0	0	0	0	0	0	0
46	46		1212392-02	FILTER,AIR FOAM 030PPI	1	1	1	1	1	1	1	1	1	1	1	1
47	47	D-UA-H950-0-0	0H950-PB	COVER PANEL,5-1/4" W NO LATCHES	1	1	1	1	1	1	1	1	1	1	1	1
48	48	C-MD-7413659-0-0	7413659-00	BRACKET SHIPPING	1	1	1	1	1	1	1	1	1	1	1	1
49	49		1209224-00	LATCH, NORYL PLASTIC	2	2	2	2	2	2	2	2	2	2	2	2
50	50	A-DC-7409478-0-0	7409478-00	DECAL PAT-11/35 20/SHEET	1	1	1	1	1	1	1	1	1	1	1	1
51	51	"NOTES 1,2"	1211825-01	SLIDE,CHASSIS TILT 3POSITION	1	1	1	1	1	1	1	1	1	1	1	1
52	52	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
53	53	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
54	54	B-DC-7417820-0-0	7417820-00	DECAL PDP1134A MOD LAYOUT	1	1	1	1	1	1	1	1	1	1	1	1
55	55		9007880-00	TIE,CABLE BUNDL DIA 0-1.14"=101	2	2	2	2	2	2	2	2	2	2	2	2
56	56		1209340-00	MATE-N-LOK 08SKT(1X08). HSG	1	0	0	1	0	0	1	1	1	1	1	1
57	57	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
58	58		9006660-00	WASHER, FLAT, .375 O.D. X .187 I	0	0	0	0	0	0	0	0	0	0	0	0
59	59	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
60	60	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
61	61	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
62	52	A-PS-3700235-0-0	3700235-00	INSTR PKG COMPUTER 11/34 10.5IN	1	1	1	1	1	1	1	1	1	1	1	1
63	63	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
64	64	A-PS-3700169-0-0	3700169-00	INSTR PKG COMPUTER CUSHIONED 11/	1	1	1	1	1	1	1	1	1	1	1	1
65	55	A-PS-3700197-0-0	3700197-00	INSTR PKG COMPUTER PDP11/04 INTE	0	0	0	0	0	0	0	0	0	0	0	0
66	66	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
67	57		9009599-00	SCREW, PHILLIPS FLAT HD, 10-32 X	6	6	5	5	6	6	6	6	5	5	5	5
68	58		9006020-02	SCREW,FLAT,PHIL, 6-32X 1/4	4	4	4	4	4	4	4	4	4	4	4	4
69	69	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
70	70	A-PS-3613210-0-0	3613210-00	LABEL, UL. FOIL ADH BACK	1	1	1	1	1	1	1	1	1	1	1	1
71	71	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
72	72	"NOTE 6"	9006073-03	SCREW,TRUS,PHIL, 10-32X 1/2	12	12	12	12	12	12	12	12	12	12	12	12
73	73	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
74	74	B-MD-7418879-0-0	7418879-00	STRIP BEARING	0	0	0	0	0	0	0	0	0	0	0	0
75	75		9006039-03	SCREW,TRUS,PHIL, 8-32X 1/2	0	0	0	0	0	0	0	0	0	0	0	0
76	76	D-UA-M911-0-0	0M911-YP	32K 18BIT MEMORY ONE 1" BOARD	0	0	0	0	0	0	0	0	0	0	0	0
77	77	D-CS-M9312-0-1	M9312-00	BOOTSTRAP TERMINATOR W 5 EMPTY R	1	1	1	1	1	1	1	1	1	1	1	1
78	78	C-MD-7414962-0-0	7414962-00	BRKT FILTER SUPPORT	0	0	0	0	0	0	0	0	0	0	0	0

D	I	G	I	T	A	L	TITLE	SIZE	CODE	DOCUMENT NUMBER	REV
							UNIT ASSY. 1134A	K	PL	1134A-0-DBP	P
							SECTION B OF E				

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION HH	HJ	LH	LJ	MH	MJ	DE	DF	HE	HF	LE	LF
79	79	E-MD-7415599-0-0	7415599-00	BEZEL (DIE CAST)	1	1	1	1	1	1	1	1	1	1	1	1
80	80	D-MD-7415656-0-0	7415656-00	COVER PROTECTIVE BEZEL	1	1	1	1	1	1	1	1	1	1	1	1
81	81		9007031-00	TIE,CABLE BUNDL.DIA 0- 3/4"=101	0	0	0	0	0	0	0	0	0	0	0	0
82	82		9006636-00	WASHER,LOCK,INT,.380OD X .200ID	4	4	4	4	4	4	4	4	4	4	4	4
83	83		9006071-01	SCREW,PAN,PHIL 10-32X 3/8 SS	4	4	4	4	4	4	4	4	4	4	4	4
84	84		9006635-00	WASHER,LOCK,INT,.310OD X .200ID	1	1	1	1	1	1	1	1	1	1	1	1
85	85		9006231-09	SCREW,HEX 10-32X 1/2	1	1	1	1	1	1	1	1	1	1	1	1
86	86	"NOTE 7"	9007786-00	RETAINER, U-NUT, 10-32	12	12	12	12	12	12	12	12	12	12	12	12
87	87	"NOTE 11"	23248F1-00	F1-01	1	1	1	1	1	1	1	1	1	1	1	1
88	88		1209856-02	CLIP, MODULE HOLDER W/O SEPARA	0	0	0	0	0	0	0	0	0	0	0	0
89	89	K-PL-M7891-0-0	M7891-BC	MS11-LB,64K X 18,PARITY LOGIC,FU	0	0	0	0	0	0	0	0	0	0	0	0
90	90	K-PL-M7891-0-0	M7891-DC	MS11-LD: 128K 18-BIT,PARITY LOG,	0	0	0	0	0	0	0	0	0	0	0	0
91	91	"NOTE 9"	G7273-00	BUS GRANT & NON-PROCESSOR GRANT	6	6	5	5	5	5	5	5	5	5	4	4
92	92		9009700-00	SCREW,TRUS,PHIL,SEMS10-32X .500L	16	16	15	16	16	16	16	16	15	16	16	16
93	93		9007084-00	CLAMP,CABLE,SCREW MTD. 7/16"	1	1	1	1	1	1	1	1	1	1	1	1
94	94	"NOTE 8"	9007032-00	TIE,CABLE BUNDL.DIA 0-1-3/4"=101	3	3	3	3	3	3	3	3	3	3	3	3
95	95	"NOTE 8"	9008264-00	MOUNT, CABLE TIE, ADHESIVE BACKE	3	3	3	3	3	3	3	3	3	3	3	3
96	96	A-PS-3617996-01-0	3617996-01	LABEL,OPT/MODULE 1134A	1	1	1	1	1	1	1	1	1	1	1	1
97	97	"NOTE 4"	3613211-01	DECAL,CLEAR PREPRINTED CSA 1-1/4	1	1	1	1	1	1	1	1	1	1	1	1
98	98	A-PS-3615946-00-0	3615946-00	LABEL,PRODUCT VARIATION	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
99	99	"NOTE 4"	7416197-00	LABEL, UL	1	1	1	1	1	1	1	1	1	1	1	1
100	100	"NOTE 1"	7008360-01	CABLE ASSY	0	0	0	0	0	0	1	1	1	1	1	1
101	101		9000049-11	SCREW,TRUS,PHIL,SEM 6-32X .375L	4	4	4	4	4	4	4	4	4	4	4	4
102	102	"NOTE 10"	9000049-12	SCREW,TRUS,PHIL,SEMS 8-32X .500L	2	2	2	2	2	2	2	2	2	2	2	2
103	103	"NOTE 10"	9000049-13	SCREW,TRUS,PHIL,SEM 6-32X .500L	2	2	2	2	2	2	2	2	2	2	2	2
104	104	"NOTE 12"	3617880-01	LABEL,NON-COMPLIANT FCC	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
105	105	B-PL-BA11-L-5		INSTALLATION KIT 5.25	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF
106	106	B-PL-BA11-K-2		INSTALLATION KIT 10.5	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF

107 NOTE: 1.SUPPLIED AND INSTALLIED AT FA&T
108 NOTE: 2.1211825-02 IS AN ALLOWABLE SUBSTITUTE
109 NOTE: 3.EITHER M9312 OR M9301 MAYBE USED BUT NOT BOTH
110 NOTE: 4. USE WHITE ON CLEAR ON BA11-K BOX AND BLACK ON CLEAR ON BA11-L BOX
111 NOTE: 5.DECREASE QTY BY 4 WHEN USING 1211825-01
112 NOTE: 6.ITEM NO. 92 IS AN ALLOWABLE SUBSTITUTE FOR ITEM NOS.72 AND 26
113 NOTE: 7.DECREASE QTY BY 6 WHEN USING 1211825-02
114 NOTE: 8.REQUIRED ONLY WITH ITEM NOS. 16 AND 19
115 NOTE: 9.G727 IS AN ALLOWABLE SUBSTITUTE FOR ITEM NO.91
116 NOTE: 10.DECREASE QTY BY 2 WHEN USING 1211825-01

NOTE: 11.TO BE SHIPPED WITH M9312 ONLY
NOTE: 12.NOT PUT ON 50 HERTZ MACHINES

D	I	G	I	T	A	L	TITLE	SIZE	CODE	DOCUMENT NUMBER	REV
							UNIT ASSY. 1134A	K	PL	1134A-0-DBP	P
							SECTION B OF E				

AUTOMATED BY PRTLST.3L(40) P A R T S L I S T SHEET C1 OF C3

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION ME	MF	JH	JJ	JE	JF	XX	XY	YX	YY	WC	WD
1	1	A-PL-KD11-0-0	0KD11-EA	11/34 CPU	1	1	1	1	1	1	1	1	1	1	1	1
2	2	SEE NOTE 3	M9301-YF	M9301 W BOOT FOR PC11,RP02-6,RS0	1	1	1	1	1	1	1	1	1	1	1	1
3	3	D-CS-M9302-0-0	M9302-00	UNIBUS TERMINATOR	1	1	1	1	1	1	1	1	1	1	1	1
4	4	BLANK			0	0	0	0	0	0	0	0	0	0	0	0
5	5	A-PL-DL11-0-0	0DL11-W	M7856(DL11-A THRU -D W LINE FREQ	1	1	0	0	1	1	1	1	1	1	0	0
6	6	D-CS-M7850-0-1	M7850-00	MEM PARITY BOARD FOR G651	1	1	1	1	1	1	0	0	0	0	0	0
7	7	D-UA-KY11-0-0	0KY11-LA	OPERATORS CONSOLE	0	0	1	1	0	0	0	0	0	0	1	1
8	8	A-PL-MS11-0-0	0MS11-JF	16K UNIBUS MOS MEM/PARITY	0	0	0	0	0	0	0	0	0	0	0	0
9	9	D-UA-M411-0-0	0MM11-DP	16K CORE MEMORY	2	2	0	0	0	0	0	0	0	0	0	0
10	10	E-UA-BA11-0-0	0BA11-LK	5.25" BOX W H777-CA PS,115V	0	0	0	0	0	0	0	0	0	0	0	0
11	11	E-UA-BA11-0-0	0BA11-LL	5.25" W H777-CB PS,230V	0	0	0	0	0	0	0	0	0	0	0	0
12	12	E-UA-BA11-0-0	0BA11-LM	5.25" BOX W H777-DA PS, 115V	0	0	0	0	0	0	0	0	1	0	1	0
13	13	E-UA-BA11-0-0	0BA11-LN	5.25" BOX W H777-DB PS,240V	0	0	0	0	0	0	0	0	0	1	0	1
14	14	E-UA-BA11-0-0	0BA11-KA	10.5"BOX,CHASSIS ONLY	1	1	1	1	1	1	1	1	0	0	0	0
15	15	E-UA-7013323-0-0	7013323-00	MOSS POWER SUPPLY 115V W/O BATTE	0	0	0	0	0	0	1	0	0	0	0	0
16	16	E-UA-7013323-0-0	7013323-01	MOSS POWER SUPPLY 115V W/BATTERY	0	0	0	0	0	0	0	0	0	0	0	0
17	17	E-UA-7013323-0-0	7013323-02	CORE POWER POWER SUPPLY 115V	1	0	1	0	1	0	0	0	0	0	0	0
18	18	E-UA-7013323-0-0	7013323-03	MOSS POWER SUPPLY 230V W/O BATTE	0	0	0	0	0	0	0	1	0	0	0	0
19	19	E-UA-7013323-0-0	7013323-04	MOSS POWER SUPPLY 230V W/BATTERY	0	0	0	0	0	0	0	0	0	0	0	0
20	20	E-UA-7013323-0-0	7013323-05	CORE POWER SUPPLY 230V	0	1	0	1	0	1	0	0	0	0	0	0
21	21	C-IA-7012752-0-0	7012752-00	CABLE JUMPER (BA11-L)	0	0	0	0	0	0	0	0	0	0	1	1
22	22	D-IA-7009768-0-0	7009768-00	COVER CHASSIS (BA11-K)	2	2	2	2	2	2	2	2	0	0	0	0
23	23	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
24	24	D-UA-KY11-0-0	0KY11-LB	CONSOLE ASSY PROGRAMERS	1	1	0	0	1	1	1	1	1	1	0	0
25	25	SEE NOTE 5	9006071-03	SCREW,TRUS,PHIL, 10-32X 3/8	12	12	12	12	12	12	12	12	0	0	0	0
26	26	SEE NOTES 5,6	9007651-00	WASHER, LOCK, EXTERNAL TOOTH #10	24	24	24	24	24	24	24	24	0	0	0	0
27	27	A-PL-DD11-0-0	0DD11-PK	DD11-DK W/2SLOTS FOR KD11-E	1	1	1	1	1	1	1	1	1	1	1	1
28	28	SEE NOTE 5	9006565-00	NUT,KEP 10-32X 3/8 AF	6	6	5	5	5	6	6	6	0	0	0	0
29	29	B-MU-DD11-0-P	0DD11-P	BACKPLANE NINE SLOT	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF
30	30	C-IA-7011413-0-0	7011413-3F	EXTERNAL CABLE [M9301]	1	1	1	1	1	1	1	1	1	1	1	1

REVISION HISTORY		
ENG	ECO NUMBER	REV
---	INITIAL	N
BC	12	N
BC	1134A-TW012A	N
JS	1134A-TW013	P

BASIC PART NO: 1134A

SECTION C OF E

SECTION. VARIATION INDEX
[A] DC,DD,HC,HD,LC,LD, MC,MD,JC,JD,DH,DJ
[B] HH,HJ,LH,LJ,MH,MJ, DE,DF,HE,HF,LE,LF
[C] ME,MF,JH,JJ,JE,JF, XX,XY,YX,YY,WC,WD
[D] WE,WF,XC,XD,XF,XE, YC,YD,YE,YF,ZC,ZD
[E] ZE,ZF,XW,XZ,YW,YZ
[F]

DRN: B.BLODGETT DATE: 16-JAN-80

CHK'D: D.HEALY DATE: 16-JAN-80

DES.ENG.: R BARRY DATE: 16-JAN-80

RESP.ENG.: ERNIE CROCKER DATE: 16-JAN-80

MFG.ENG.: J ALVES DATE: 16 JAN 80

ASSEMBLY NUMBER: E-UA-1134A-0-0

TOP DOCUMENT NUMBER: E-UA-1134A-0-0

DIGITAL

TITLE: PARTS LIST
UNIT ASSY. 1134A

DOCUMENT NUMBER

SIZE	CODE	NUMBER	REV
K	PL	1134A-0-DBP	P

FILE NAME: Z0692P.PLS

EDIT #: 3

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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION ME	MF	JH	JJ	JE	JF	XX	XY	YX	YY	WC	WD
31	31	C-IA-7011411-0-0	7011411-0J	3M CABLE CONSOLE/BACKPLANE	0	0	1	1	0	0	0	0	0	0	1	1
32	32	D-IA-7011992-0-0	7011992-00	PDP 1104/1134 CONSOLE POWER HARN	1	1	1	1	1	1	1	1	1	1	0	0
33	33	B-MD-7417628-0-0	7417628-00	BEZEL BRACKET	2	2	2	2	2	2	2	2	2	2	0	0
34	34	B-MD-7417627-0-0	7417627-00	ADAPTOR BRACKET-BEZEL	2	2	2	2	2	2	2	2	2	2	0	0
35	35		9006043-03	SCREW,TRUS,PHIL, 8-32X 1	4	4	4	4	4	4	4	4	4	4	12	12
36	36		9008072-00	WASHER, LOCK, EXTERNAL TOOTH #8	4	4	4	4	4	4	4	4	4	4	5	5
37	37		9006037-03	SCREW,TRUS,PHIL, 8-32X 3/8	4	4	4	4	4	4	4	4	4	4	4	4
38	38	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
39	39	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
40	40		9009799-00	SCREW, FILLISTER HD 8-32 X .31	0	0	0	0	0	0	0	0	0	0	1	1
41	41		9006634-00	WASHER,LOCK,INT,.230OD X .172ID	8	8	8	8	8	8	8	8	4	4	4	4
42	42		9006070-02	SCREW,FLAT,PHIL, 10-32X 5/16	4	4	4	4	4	4	4	4	0	0	0	0
43	43		9009771-03	CLAMP, CABLE, PVC, 3/16 ID	3	3	3	3	3	3	3	3	3	3	2	2
44	44		1211336-02	TAPE FOAM AIR FILTERS,SEMIPE	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	0	0	A/R	A/R
45	45		1212707-00	FILTER,AIR FOAM EXPAND 030PPI	0	0	0	0	0	0	0	0	1	1	1	1
46	46		1212392-02	FILTER,AIR FOAM 030PPI	1	1	1	1	1	1	1	1	0	0	0	0
47	47	D-UA-H950-0-0	0H950-PB	COVER PANEL,5-1/4" W NO LATCHES	1	1	1	1	1	1	1	1	0	0	0	0
48	48	C-MD-7413659-0-0	7413659-00	BRACKET SHIPPING	1	1	1	1	1	1	1	1	0	0	0	0
49	49		1209224-00	LATCH, NORYL PLASTIC	2	2	2	2	2	2	2	2	0	0	0	0
50	50	A-DC-7409478-0-0	7409478-00	DECAL PAT-11/35 20/SHEET	1	1	1	1	1	1	1	1	1	1	1	1
51	51	"NOTES 1,2"	1211825-01	SLIDE,CHASSIS TITLT 3POSITION	1	1	1	1	1	1	0	0	0	0	1	1
52	52	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
53	53	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
54	54	B-DC-7417820-0-0	7417820-00	DECAL PDP1134A MOD LAYOUT	1	1	1	1	1	1	1	1	1	1	1	1
55	55		9007880-00	TIE,CABLE BUNDL DIA 0-1.14"=101	2	2	2	2	2	2	2	2	2	2	2	2
56	56		1209340-00	MATE-N-LOK 08SKT(1X08). HSG	0	0	0	0	0	0	1	1	0	0	0	0
57	57	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
58	58		9006660-00	WASHER, FLAT, .375 O.D. X .187 I	0	0	0	0	0	0	0	0	4	4	4	4
59	59	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
60	60	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
61	51	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
62	52	A-PS-3700235-0-0	3700235-00	INSTR PKG COMPUTER 11/34 10.5IN	1	1	1	1	1	1	1	1	0	0	0	0
63	63	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
64	64	A-PS-3700169-0-0	3700169-00	INSTR PKG COMPUTER CUSHIONED 11/	1	1	1	1	1	1	1	1	1	1	1	1
65	55	A-PS-3700197-0-0	3700197-00	INSTR PKG COMPUTER PDP11/04 INTE	0	0	0	0	0	0	0	0	1	1	1	1
66	66	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
67	57		9009599-00	SCREW, PHILLIPS FLAT HD, 10-32 X	6	6	5	5	6	6	6	6	1	1	0	0
68	58		9006020-02	SCREW,FLAT,PHIL, 6-32X 1/4	4	4	4	4	4	4	4	4	0	0	0	0
69	59	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
70	70	A-PS-3613210-0-0	3613210-00	LABEL, UL. FOIL ADH BACK	1	1	1	1	1	1	1	1	1	1	1	1
71	71	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
72	72	"NOTE 6"	9006073-03	SCREW,TRUS,PHIL, 10-32X 1/2	12	12	12	12	12	12	0	0	0	0	0	0
73	73	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
74	74	B-MD-7418879-0-0	7418879-00	STRIP BEARING	0	0	0	0	0	0	0	0	2	2	2	2
75	75		9006039-03	SCREW,TRUS,PHIL, 8-32X 1/2	0	0	0	0	0	0	0	0	0	0	4	4
76	76	D-UA-MM11-0-0	0MM11-YP	32K 18BIT MEMORY ONE 1" BOARD	0	0	1	1	1	1	0	0	0	0	0	0
77	77	D-CS-M9312-0-1	M9312-00	BOOTSTRAP TERMINATOR W 5 EMPTY R	1	1	1	1	1	1	1	1	1	1	1	1
78	78	C-MD-7414962-0-0	7414962-00	BRKT FILTER SUPPORT	0	0	0	0	0	0	0	0	2	2	2	2

D	I	G	I	T	A	L	TITLE	SECTION C OF E	SIZE	CODE	DOCUMENT NUMBER	REV
							UNIT ASSY. 1134A		K	PL	1134A-0-DBP	P

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION ME	MF	JH	JJ	JE	JF	XX	XY	YX	YY	WC	WD
79	79	B-MD-7415599-0-0	7415599-00	BEZEL (DIE CAST)	1	1	1	1	1	1	1	1	1	1	1	1
80	80	D-MD-7415656-0-0	7415656-00	COVER PROTECTIVE BEZEL	1	1	1	1	1	1	1	1	1	1	1	1
81	81		9007031-00	TIE,CABLE BUNDL.DIA 0- 3/4"=101	0	0	0	0	0	0	0	0	3	3	3	3
82	82		9006636-00	WASHER,LOCK,INT,.380OD X .200ID	4	4	4	4	4	4	4	4	0	0	0	0
83	83		9006071-01	SCREW,PAN,PHIL 10-32X 3/8 SS	4	4	4	4	4	4	4	4	0	0	0	0
84	84		9006635-00	WASHER,LOCK,INT,.310OD X .200ID	1	1	1	1	1	1	1	1	0	0	0	0
85	85		9006231-09	SCREW,HEX 10-32X 1/2	1	1	1	1	1	1	1	1	0	0	0	0
86	86	"NOTE 7"	9007786-00	RETAINER, U-NUT, 10-32	12	12	12	12	12	12	0	0	0	0	0	0
87	87	"NOTE 11"	23248F1-00	F1-01	1	1	1	1	1	1	1	1	1	1	1	1
88	88		1209856-02	CLIP, MODULE HOLDER W/O SEPARA	0	0	0	0	0	0	0	0	A/R	A/R	A/R	A/R
89	89	K-PL-M7891-0-0	M7891-BC	MS11-LB,64K X 18,PARITY LOGIC,FU	0	0	0	0	0	0	0	0	0	0	1	1
90	90	K-PL-M7891-0-0	M7891-DC	MS11-LD: 128K 18-BIT,PARITY LOG,	0	0	0	0	0	0	0	0	0	0	0	0
91	91	"NOTE 9"	G7273-00	BUS GRANT & NON-PROCESSOR GRANT	6	6	5	6	5	5	5	5	5	5	6	5
92	92		9009700-00	SCREW,TRUS,PHIL,SEMS10-32X .500L	16	16	15	15	16	16	4	4	0	0	0	0
93	93		9007084-00	CLAMP,CABLE,SCREW MTD. 7/16"	1	1	1	1	1	1	1	1	0	0	0	0
94	94	"NOTE 8"	9007032-00	TIE,CABLE BUNDL.DIA 0-1-3/4"=101	3	3	3	3	3	3	3	3	0	0	0	0
95	95	"NOTE 8"	9008264-00	MOUNT, CABLE TIE, ADHESIVE BACKE	3	3	3	3	3	3	3	3	0	0	0	0
96	96	A-PS-3617996-01-0	3617996-01	LABEL,OPT/MODULE 1134A	1	1	1	1	1	1	1	1	1	1	1	1
97	97	"NOTE 4"	3613211-01	DECAL,CLEAR PREPRINTED CSA 1-1/4	1	1	1	1	1	1	1	1	1	1	1	1
98	98	A-PS-3615946-00-0	3615946-00	LABEL,PRODUCT VARIATION	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
99	99	"NOTE 4"	7416197-00	LABEL, UL	1	1	1	1	1	1	1	1	1	1	1	1
100	100	"NOTE 1"	7008360-01	CABLE ASSY	1	1	0	0	1	1	0	0	0	0	0	0
101	101		9000049-11	SCREW,TRUS,PHIL,SEM 6-32X .375L	4	4	4	4	4	4	4	4	0	0	0	0
102	102	"NOTE 10"	9000049-12	SCREW,TRUS,PHIL,SEMS 8-32X .500L	2	2	2	2	2	2	2	2	0	0	0	0
103	103	"NOTE 10"	9000049-13	SCREW,TRUS,PHIL,SEM 6-32X .500L	2	2	2	2	2	2	2	2	0	0	0	0
104	104	"NOTE 12"	3617980-01	LABEL,NON-COMPLIANT FCC	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
105	105	B-PL-BA11-L-5		INSTALLATION KIT 5.25	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF
106	106	B-PL-BA11-K-2		INSTALLATION KIT 10.5	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF

107 NOTE: 1.SUPPLIED AND INSTALLIED AT FA&T
108 NOTE: 2.1211825-02 IS AN ALLOWABLE SUBSTITUTE
109 NOTE: 3.EITHER M9312 OR M9301 MAYBE USED BUT NOT BOTH
110 NOTE: 4. USE WHITE ON CLEAR ON BA11-K BOX AND BLACK ON CLEAR ON BA11-L BOX
111 NOTE: 5.DECREASE QTY BY 4 WHEN USING 1211825-01
112 NOTE: 6.ITEM NO. 92 IS AN ALLOWABLE SUBSTITUTE FOR ITEM NOS.72 AND 26
113 NOTE: 7.DECREASE QTY BY 6 WHEN USING 1211825-02
114 NOTE: 8.REQUIRED ONLY WITH ITEM NOS. 16 AND 19
115 NOTE: 9.G727 IS AN ALLOWABLE SUBSTITUTE FOR ITEM NO.91
116 NOTE: 10.DECREASE QTY BY 2 WHEN USING 1211825-01

NOTE: 11.TO BE SHIPPED WITH M9312 ONLY
NOTE: 12.NOT PUT ON 50 HERTZ MACHINES

D	I	G	I	T	A	L	TITLE	SIZE	CODE	DOCUMENT NUMBER	REV
							UNIT ASSY. 1134A	K	PL	1134A-0-DBP	P
							SECTION C OF E				

AUTOMATED BY PRTLST.3L(40) P A R T S L I S T

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION WE	WF	XC	XD	XF	XE	YC	YD	YE	YF	ZC	ZD
1	1	A-PL-KD11-0-0	0KD11-EA	11/34 CPU	1	1	1	1	1	1	1	1	1	1	1	1
2	2	SEE NOTE 3	M9301-YF	M9301 W BOOT FOR PC11,RP02-6,RS0	1	1	1	1	1	1	1	1	1	1	1	1
3	3	D-CS-M9302-0-0	M9302-00	UNIBUS TERMINATOR	1	1	1	1	1	1	1	1	1	1	1	1
4	4	BLANK			0	0	0	0	0	0	0	0	0	0	0	0
5	5	A-PL-DL11-0-0	0DL11-W	M7856(DL11-A THRU -D W LINE FREQ	0	0	1	1	1	1	1	1	1	1	0	0
6	6	D-CS-M7850-0-1	M7850-00	MEM PARITY BOARD FOR G651	0	0	0	0	0	0	0	0	0	0	0	0
7	7	D-UA-KY11-0-0	0KY11-LA	OPERATORS CONSOLE	1	1	0	0	0	0	0	0	0	0	1	1
8	8	A-PL-MS11-0-0	0MS11-JP	16K UNIBUS MOS MEM/PARITY	0	0	0	0	0	0	0	0	0	0	0	0
9	9	D-UA-MM11-0-0	0MM11-DP	16K CORE MEMORY	0	0	0	0	0	0	0	0	0	0	0	0
10	10	E-UA-BA11-0-0	0BA11-LK	5.25" BOX W H777-CA PS,115V	0	0	0	0	0	0	0	0	0	0	0	0
11	11	E-UA-BA11-0-0	0BA11-LL	5.25" W H777-CB PS,230V	0	0	0	0	0	0	0	0	0	0	0	0
12	12	E-UA-BA11-0-0	0BA11-LM	5.25" BOX W H777-DA PS, 115V	0	0	1	0	0	0	1	0	0	0	1	0
13	13	E-UA-BA11-0-0	0BA11-LN	5.25" BOX W H777-DB PS,240V	0	0	0	1	0	0	0	1	0	0	0	1
14	14	E-UA-BA11-0-0	0BA11-KA	10.5"BOX,CHASSIS ONLY	1	1	0	0	1	1	0	0	1	1	0	0
15	15	E-UA-7013323-0-0	7013323-00	MOSS POWER SUPPLY 115V W/O BATTE	1	0	0	0	0	1	0	0	1	0	0	0
16	16	E-UA-7013323-0-0	7013323-01	MOSS POWER SUPPLY 115V W/BATTERY	0	0	0	0	0	0	0	0	0	0	0	0
17	17	E-UA-7013323-0-0	7013323-02	CORE POWER POWER SUPPLY 115V	0	0	0	0	0	0	0	0	0	0	0	0
18	18	E-UA-7013323-0-0	7013323-03	MOSS POWER SUPPLY 230V W/O BATTE	0	1	0	0	1	0	0	0	0	1	0	0
19	19	E-UA-7013323-0-0	7013323-04	MOSS POWER SUPPLY 230V W/BATTERY	0	0	0	0	0	0	0	0	0	0	0	0
20	20	E-UA-7013323-0-0	7013323-05	CORE POWER SUPPLY 230V	0	0	0	0	0	0	0	0	0	0	0	0
21	21	C-IA-7012752-0-0	7012752-00	CABLE JUMPER (BA11-L)	0	0	1	1	0	0	1	1	0	0	1	1
22	22	D-IA-7009768-0-0	7009768-00	COVER CHASSIS (BA11-K)	2	2	0	0	2	2	0	0	2	2	0	0
23	23	"BLANK"			0	0	0	0	0	0	0	0	0	0	1	1
24	24	D-UA-KY11-0-0	0KY11-LB	CONSOLE ASSY PROGRAMERS	0	0	1	1	1	1	1	1	1	1	0	0
25	25	SEE NOTE 5	9006071-03	SCREW,TRUS,PHIL, 10-32X 3/8	12	12	0	0	12	12	0	0	12	12	0	0
26	26	SEE NOTES 5,6	9007651-00	WASHER, LOCK, EXTERNAL TOOTH #10	24	24	0	0	24	24	0	0	24	24	0	0
27	27	A-PL-DD11-0-0	0DD11-PK	DD11-DK W/2SLOTS FOR KD11-E	1	1	1	1	1	1	1	1	1	1	1	1
28	28	SEE NOTE 5	9006565-00	NUT,KEP 10-32X 3/8 AF	6	6	0	0	6	6	0	0	6	6	0	0
29	29	B-MU-DD11-0-P	0DD11-P	BACKPLANE NINE SLOT	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF
30	30	C-IA-7011413-0-0	7011413-3F	EXTERNAL CABLE [M9301]	1	1	1	1	1	1	1	1	1	1	1	1

REVISION HISTORY

ENG	ECO NUMBER	REV
BC	INITIAL	N
BC	12	N
BC	1134A-TW012A	N
JS	1134A-TW013	P

BASIC PART NO: 1134A

SECTION D OF E

SECTION. VARIATION INDEX

[A] DC,DD,HC,HD,LC,LD, MC,MD,JC,JD,DH,DJ

[B] HH,HJ,LH,LJ,MH,MJ, DE,DF,HE,HF,LE,LF

[C] ME,MF,JH,JJ,JE,JF, XX,XY,YX,YY,WC,WD

[D] WE,WF,XC,XD,XF,XE, YC,YD,YE,YF,ZC,ZD

[E] ZE,ZF,XW,XZ,YW,YZ

[F]

DRN: B.BLODGETT DATE: 16-JAN-83

CHK'D: D.HEALY DATE: 16-JAN-83

DES.ENG.: R BARRY DATE: 16-JAN-83

RESP.ENG.: ERNIE CROCKER DATE: 16-JAN-83

MFG.ENG.: J ALVES DATE: 16 JAN 83

ASSEMBLY NUMBER: E-UA-1134A-0-0

TOP DOCUMENT NUMBER: E-UA-1134A-0-0

D	I	G	I	T	A	L

TITLE PARTS LIST

UNIT ASSY. 1134A

DOCUMENT NUMBER

SIZE	CODE	NUMBER	REV
K	PL	1134A-0-DBP	P

FILE NAME: Z0692P.PLS

EDIT #: 3

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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION WE	WF	XC	XD	XF	XE	YC	YD	YE	YF	ZC	ZD
31	31	C-IA-7011411-0-0	7011411-0J	3M CABLE CONSOLE/BACKPLANE	1	1	0	0	0	0	0	0	0	0	1	1
32	32	D-IA-7011992-0-0	7011992-00	PDP 1104/1134 CONSOLE POWER HARN	1	1	0	0	1	1	0	0	1	1	1	1
33	33	B-MD-7417628-0-0	7417628-00	BEZEL BRACKET	2	2	0	0	2	2	0	0	2	2	0	0
34	34	B-MD-7417627-0-0	7417627-00	ADAPTOR BRACKET-BEZEL	2	2	0	0	2	2	0	0	2	2	0	0
35	35		9006043-03	SCREW,TRUS,PHIL, 8-32X 1	4	4	4	4	4	4	4	4	4	4	4	4
36	36		9008072-00	WASHER, LOCK, EXTERNAL TOOTH #8	0	0	5	5	0	0	5	5	0	0	5	5
37	37		9006037-03	SCREW,TRUS,PHIL, 8-32X 3/8	4	4	4	4	4	4	4	4	4	4	4	4
38	38	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
39	39	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
40	40		9009799-00	SCREW, FILLISTER HD 8-32 X .31	0	0	1	1	0	0	1	1	0	0	0	0
41	41		9006634-00	WASHER,LOCK,INT,.230OD X .172ID	8	8	4	4	8	8	4	4	8	8	4	4
42	42		9006070-02	SCREW,FLAT,PHIL, 10-32X 5/16	4	4	0	0	4	4	0	0	4	4	0	0
43	43		9009771-03	CLAMP, CABLE, PVC, 3/16 ID	3	3	2	2	3	3	2	2	3	3	2	2
44	44		1211336-02	TAPE FOR FOAM AIR FILTERS,SEMIPE	A/R	A/R	0	0	A/R	A/R	0	0	A/R	A/R	0	0
45	45		1212707-00	FILTER,AIR FOAM EXPAND 030PPI	0	0	1	1	0	0	1	1	0	0	1	1
46	46		1212392-02	FILTER,AIR FOAM 030PPI	1	1	0	0	1	1	0	0	1	1	0	0
47	47	D-UA-H950-0-0	0H950-PB	COVER PANEL,5-1/4" W NO LATCHES	1	1	0	0	1	1	0	0	1	1	0	0
48	48	C-MD-7413659-0-3	/413659-00	BRACKET SHIPPING	1	1	0	0	1	1	0	0	1	1	0	0
49	49		1209224-00	LATCH, NORYL PLASTIC	2	2	0	0	2	2	0	0	2	2	0	0
50	50	A-DC-7409478-0-0	7409478-00	DECAL PAT-11/35 20/SHEET	1	1	1	1	1	1	1	1	1	1	1	1
51	51	"NOTES 1,2"	1211825-01	SLIDE,CHASSIS TITLT 3POSITION	1	1	0	0	1	1	0	0	1	1	0	0
52	52	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
53	53	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
54	54	B-DC-7417820-0-0	7417820-00	DECAL PDP1134A MOD LAYOUT	1	1	1	1	1	1	1	1	1	1	1	1
55	55		9007880-00	TIE,CABLE BUNDL DIA 0-1.14"=101	2	2	2	2	2	2	2	2	2	2	2	2
56	56		1209340-00	MATE-N-LOK 08SKT(1X08). HSG	1	1	0	0	1	1	0	0	1	1	0	0
57	57	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
58	58		9006660-00	WASHER, FLAT, .375 O.D. X .187 I	0	0	4	4	0	0	4	4	0	0	4	4
59	59	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
60	50	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
61	51	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
62	52	A-PS-3700235-0-0	3700235-00	INSTR PKG COMPUTER 11/34 10.5IN	1	1	0	0	1	1	0	0	1	1	0	0
63	53	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
64	54	A-PS-3700169-0-0	3700169-00	INSTR PKG COMPUTER CUSHIONED 11/	1	1	1	1	1	1	1	1	1	1	1	1
65	55	A-PS-3700197-0-0	3700197-00	INSTR PKG COMPUTER PDP11/04 INTE	0	0	1	1	0	0	1	1	0	0	1	1
66	56	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
67	57		9009599-00	SCREW, PHILLIPS FLAT HD, 10-32 X	6	6	0	0	6	6	0	0	0	0	0	0
68	58		9006020-02	SCREW,FLAT,PHIL, 6-32X 1/4	4	4	0	0	4	4	0	0	4	4	0	0
69	59	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
70	70	A-PS-3613210-0-0	3613210-00	LABEL, UL. FOIL ADH BACK	1	1	1	1	1	1	1	1	1	1	1	1
71	71	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
72	72	"NOTE 6"	9006073-03	SCREW,TRUS,PHIL, 10-32X 1/2	12	12	0	0	12	12	0	0	12	12	0	0
73	73	"BLANK"			0	0	0	0	0	0	0	0	0	0	0	0
74	74	B-MD-7418879-0-0	7418879-00	STRIP BEARING	0	0	2	2	0	0	2	2	0	0	2	2
75	75		9006039-03	SCREW,TRUS,PHIL, 8-32X 1/2	0	0	4	4	0	0	4	4	0	0	4	4
76	76	D-UA-MM11-0-0	0MM11-YP	32K 18BIT MEMORY ONE 1" BOARD	0	0	0	0	0	0	0	0	0	0	0	0
77	77	D-CS-M9312-0-1	M9312-00	BOOTSTRAP TERMINATOR W 5 EMPTY R	1	1	1	1	1	1	1	1	1	1	1	1
78	78	C-MD-7414962-0-0	7414962-00	BRKT FILTER SUPPORT	0	0	2	2	0	0	2	2	0	0	2	2

D	I	G	I	T	A	L	TITLE	SIZE	CODE	DOCUMENT NUMBER	REV
							UNIT ASSY. 1134A	K	PL	1134A-0-DBP	P
							SECTION D OF E				

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION WE	WF	XC	XD	XF	XE	YC	YD	YE	YF	ZC	ZD
79	79	E-MD-7415599-0-0	7415599-00	BEZEL (DIE CAST)	1	1	1	1	1	1	1	1	1	1	1	1
80	80	D-MD-7415656-0-0	7415656-00	COVER PROTECTIVE BEZEL	1	1	1	1	1	1	1	1	1	1	1	1
81	81		9007031-00	TIE,CABLE BUNDL.DIA 0- 3/4"=101	0	0	3	3	0	0	3	3	0	0	3	3
82	82		9006636-00	WASHER,LOCK,INT,.380OD X .200ID	4	4	0	0	4	4	0	0	4	4	0	0
83	83		9006071-01	SCREW,PAN,PHIL 10-32X 3/8 SS	4	4	0	0	4	4	0	0	4	4	0	0
84	84		9006635-00	WASHER,LOCK,INT,.310OD X .200ID	1	1	0	0	1	1	0	0	1	1	0	0
85	85		9006231-09	SCREW,HEX 10-32X 1/2	1	1	0	0	1	1	0	0	1	1	0	0
86	86	"NOTE 7"	9007786-00	RETAINER, U-NUT, 10-32	12	12	0	0	12	12	0	0	12	12	0	0
87	87	"NOTE 11"	23248F1-00	F1-01	1	1	1	1	1	1	1	1	1	1	1	1
88	88		1209956-02	CLIP, MODULE HOLDER W/O SEPARA	0	0	A/R	A/R	0	0	A/R	A/R	0	0	A/R	A/R
89	89	K-PL-M7891-0-0	M7891-BC	MS11-LB,64K X 18,PARITY LOGIC,FU	1	1	1	1	1	1	0	0	0	0	0	0
90	90	K-PL-M7891-0-0	M7891-DC	MS11-LD: 128K 18-BIT,PARITY LOG,	0	0	0	0	0	0	1	1	1	1	1	1
91	91	"NOTE 9"	G7273-00	BUS GRANT & NON-PROCESSOR GRANT	6	6	6	6	6	6	6	6	6	6	6	6
92	92		9009700-00	SCREW,TRUS,PHIL,SEMS10-32X .500L	16	16	0	0	16	16	0	0	16	16	0	0
93	93		9007084-00	CLAMP,CABLE,SCREW MTD. 7/16"	1	1	0	0	1	1	0	0	1	1	0	0
94	94	"NOTE 8"	9007032-00	TIE,CABLE BUNDL.DIA 0-1-3/4"=101	3	3	0	0	3	3	0	0	3	3	0	0
95	95	"NOTE 8"	9008264-00	MOUNT, CABLE TIE, ADHESIVE BACKE	3	3	0	0	3	3	0	0	3	3	0	0
96	96	A-PS-3617996-01-0	3617996-01	LABEL,OPT/MODULE 1134A	1	1	1	1	1	1	1	1	1	1	1	1
97	97	"NOTE 4"	3613211-01	DECAL,CLEAR PREPRINTED CSA 1-1/4	1	1	1	1	1	1	1	1	1	1	1	1
98	98	A-PS-3615946-00-0	3615946-00	LABEL,PRODUCT VARIATION	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
99	99	"NOTE 4"	7416197-00	LABEL, UL	1	1	1	1	1	1	1	1	1	1	1	1
100	100	"NOTE 1"	7008360-01	CABLE ASSY	0	0	1	1	1	1	1	1	1	1	0	0
101	101		9000049-11	SCREW,TRUS,PHIL,SEM 6-32X .375L	4	4	0	0	4	4	0	0	4	4	0	0
102	102	"NOTE 10"	9000049-12	SCREW,TRUS,PHIL,SEMS 8-32X .500L	2	2	0	0	2	2	0	0	2	2	0	0
103	103	"NOTE 10"	9000049-13	SCREW,TRUS,PHIL,SEM 6-32X .500L	2	2	0	0	2	2	0	0	2	2	0	0
104	104	"NOTE 12"	3617880-01	LABEL,NON-COMPLIANT FCC	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
105	105	B-PL-BA11-L-5		INSTALLATION KIT 5.25	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF
106	106	B-PL-BA11-K-2		INSTALLATION KIT 10.5	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF

107 NOTE: 1.SUPPLIED AND INSTALLIED AT FA&T
108 NOTE: 2.1211825-02 IS AN ALLOWABLE SUBSTITUTE
109 NOTE: 3.EITHER M9312 OR M9301 MAYBE USED BUT NOT BOTH
110 NOTE: 4. USE WHITE ON CLEAR ON BA11-K BOX AND BLACK ON CLEAR ON BA11-L BOX
111 NOTE: 5.DECREASE QTY BY 4 WHEN USING 1211825-01
112 NOTE: 6.ITEM NO. 92 IS AN ALLOWABLE SUBSTITUTE FOR ITEM NOS.72 AND 26
113 NOTE: 7.DECREASE QTY BY 6 WHEN USING 1211825-02
114 NOTE: 8.REQUIRED ONLY WITH ITEM NOS. 16 AND 19
115 NOTE: 9.G727 IS AN ALLOWABLE SUBSTITUTE FOR ITEM NO.91
116 NOTE: 10.DECREASE QTY BY 2 WHEN USING 1211825-01

NOTE: 11.TO BE SHIPPED WITH M9312 ONLY
NOTE: 12.NOT PUT ON 50 HERTZ MACHINES

D	I	G	I	T	A	L	TITLE	SIZE	CODE	DOCUMENT NUMBER	REV
							UNIT ASSY, 1134A	K	PL	1134A-0-DBP	P

SECTION D OF E

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION ZE	ZF	XW	XZ	YW	YZ
1	1	A-PL-KD11-0-0	0KD11-EA	11/34 CPU	1	1	1	1	1	1
2	2	SEE NOTE 3	M9301-YF	M9301 W BOOT FOR PC11,RP02-6,RS0	1	1	1	1	1	1
3	3	D-CS-M9302-0-0	M9302-00	UNIBUS TERMINATOR	1	1	1	1	1	1
4	4	BLANK			0	0	0	0	0	0
5	5	A-PL-DL11-0-0	0DL11-W	M7856(DL11-A THRU -D W LINE FREQ	0	0	1	1	1	1
6	6	D-CS-M7850-0-1	M7850-00	MEM PARITY BOARD FOR G651	0	0	0	0	0	0
7	7	D-UA-KY11-0-0	0KY11-LA	OPERATORS CONSOLE	1	1	0	0	1	1
8	8	A-PL-MS11-0-0	0MS11-JP	16K UNIBUS MOS MEM/PARITY	0	0	0	0	0	0
9	9	D-UA-MM11-0-0	0MM11-DP	16K CORE MEMORY	0	0	0	0	0	0
10	10	E-UA-BA11-0-0	0BA11-LK	5.25" BOX W H777-CA PS,115V	0	0	0	0	1	0
11	11	E-UA-BA11-0-0	0BA11-LL	5.25" W H777-CB PS,230V	0	0	0	0	0	1
12	12	E-UA-BA11-0-0	0BA11-LM	5.25" BOX W H777-DA PS, 115V	0	0	0	0	0	0
13	13	E-UA-BA11-0-0	0BA11-LN	5.25" BOX W H777-DB PS,240V	0	0	0	0	0	0
14	14	E-UA-BA11-0-0	0BA11-KA	10.5"BOX,CHASSIS ONLY	1	1	1	1	0	0
15	15	E-UA-7013323-0-0	7013323-00	MOSS POWER SUPPLY 115V W/O BATTE	1	0	0	0	0	0
16	16	E-UA-7013323-0-0	7013323-01	MOSS POWER SUPPLY 115V W/BATTERY	0	0	0	0	0	0
17	17	E-UA-7013323-0-0	7013323-02	CORE POWER POWER SUPPLY 115V	0	0	1	0	0	0
18	18	E-UA-7013323-0-0	7013323-03	MOSS POWER SUPPLY 230V W/O BATTE	0	1	0	0	0	0
19	19	E-UA-7013323-0-0	7013323-04	MOSS POWER SUPPLY 230V W/BATTERY	0	0	0	0	0	0
20	20	E-UA-7013323-0-0	7013323-05	CORE POWER SUPPLY 230V	0	0	0	1	0	0
21	21	C-IA-7012752-0-0	7012752-00	CABLE JUMPER (BA11-L)	0	0	0	0	1	1
22	22	D-IA-7009768-0-0	7009768-00	COVER CHASSIS (BA11-K)	2	2	2	2	0	0
23	23	"BLANK"			0	0	0	0	0	0
24	24	D-UA-KY11-0-0	0KY11-LB	CONSOLE ASSY PROGRAMERS	0	0	1	1	0	0
25	25	SEE NOTE 5	9006071-03	SCREW,TRUS,PHIL, 10-32X 3/8	12	12	12	12	0	0
26	26	SEE NOTES 5,6	9007651-00	WASHER, LOCK, EXTERNAL TOOTH #10	24	24	24	24	0	0
27	27	A-PL-DD11-0-0	0DD11-PK	DD11-DK W/2SLOTS FOR KD11-E	1	1	1	1	1	1
28	28	SEE NOTE 5	9006565-00	NUT,KEP 10-32X 3/8 AF	6	6	5	5	0	0
29	29	P-MU-DD11-0-P	0DD11-P	BACKPLANE NINE SLOT	REF	REF	REF	REF	REF	REF
30	30	C-IA-7011413-0-0	7011413-3F	EXTERNAL CABLE [M9301]	1	1	1	1	1	1

| REVISION HISTORY | | | BASIC PART NO: 1134A | | |

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION ZE	ZF	XW	XZ	YW	YZ
31	31	C-IA-7011411-0-0	7011411-0J	3M CABLE CONSOLE/BACKPLANE	1	1	0	0	1	1
32	32	D-IA-7011992-0-0	7011992-00	PDP 1104/1134 CONSOLE POWER HARN	1	1	1	1	0	0
33	33	B-MD-7417628-0-0	7417628-00	BEZEL BRACKET	2	2	2	2	0	0
34	34	B-MD-7417627-0-0	7417627-00	ADAPTOR BRACKET-BEZEL	2	2	2	2	0	0
35	35		9006043-03	SCREW,TRUS,PHIL, 8-32X 1	4	4	4	4	4	4
36	36		9008072-00	WASHER, LOCK, EXTERNAL TOOTH #8	0	0	0	0	5	5
37	37		9006037-03	SCREW,TRUS,PHIL, 8-32X 3/8	4	4	4	4	4	4
38	38	"BLANK"			0	0	0	0	0	0
39	39	"BLANK"			0	0	0	0	0	0
40	40		9009799-00	SCREW, FILLISTER HD 8-32 X .31	0	0	0	0	1	1
41	41		9006634-00	WASHER,LOCK,INT,.230OD X .172ID	8	8	8	8	4	4
42	42		9006070-02	SCREW,FLAT,PHIL, 10-32X 5/16	4	4	4	4	0	0
43	43		9009771-03	CLAMP, CABLE, PVC, 3/16 ID	3	3	3	3	2	2
44	44		1211336-02	TAPE FOR FOAM AIR FILTERS,SEMIPE	A/R	A/R	A/R	A/R	0	0
45	45		1212707-00	FILTER,AIR FOAM EXPAND 330PPI	0	0	0	0	1	1
46	46		1212392-02	FILTER,AIR FOAM 030PPI	1	1	1	1	0	0
47	47	D-UA-H950-0-0	0H950-PB	COVER PANEL,5-1/4" W NO LATCHES	1	1	1	1	0	0
48	48	C-MD-7413659-0-0	7413659-00	BRACKET SHIPPING	1	1	1	1	0	0
49	49		1209224-00	LATCH, NORYL PLASTIC	2	2	2	2	0	0
50	50	A-DC-7409478-0-0	7409478-00	DECAL PAT-11/35 20/SHEET	1	1	1	1	1	1
51	51	"NOTES 1,2"	1211825-01	SLIDE,CHASSIS TITLT 3POSITION	1	1	1	1	0	0
52	52	"BLANK"			0	0	0	0	0	0
53	53	"BLANK"			0	0	0	0	0	0
54	54	B-DC-7417820-0-0	7417820-00	DECAL PDP1134A MOD LAYOUT	1	1	1	1	1	1
55	55		9007880-00	TIE,CABLE BUNDL DIA 0-1.14"=101	2	2	2	2	2	2
56	56		1209340-00	MATE-N-LOK 08SKT(1X08). HSG	1	1	1	1	0	0
57	57	"BLANK"			0	0	0	0	0	0
58	58		9006660-00	WASHER, FLAT, .375 O.D. X .187 I	0	0	0	0	4	4
59	59	"BLANK"			0	0	0	0	0	0
60	50	"BLANK"			0	0	0	0	0	0
61	51	"BLANK"			0	0	0	0	0	0
62	52	A-PS-3700235-0-0	3700235-00	INSTR PKG COMPUTER 11/34 10.5IN	1	1	1	1	1	1
63	63	"BLANK"			0	0	0	0	0	0
64	54	A-PS-3700169-0-0	3700169-00	INSTR PKG COMPUTER CUSHIONED 11/	1	1	1	1	1	1
65	65	A-PS-3700197-0-0	3700197-00	INSTR PKG COMPUTER PDP11/04 INTE	0	0	0	0	1	1
66	66	"BLANK"			0	0	0	0	0	0
67	57		9009599-00	SCREW, PHILLIPS FLAT HD, 10-32 X	6	6	5	5	0	0
68	68		9006020-02	SCREW,FLAT,PHIL, 6-32X 1/4	4	4	4	4	0	0
69	59	"BLANK"			0	0	0	0	0	0
70	70	A-PS-3613210-0-0	3613210-00	LABEL, UL. FOIL ADH BACK	1	1	1	1	1	1
71	71	"BLANK"			0	0	0	0	0	0
72	72	"NOTE 6"	9006073-03	SCREW,TRUS,PHIL, 10-32X 1/2	12	12	12	12	0	0
73	73	"BLANK"			0	0	0	0	0	0
74	74	B-MD-7418879-0-0	7418879-00	STRIP BEARING	0	0	0	0	2	2
75	75		9006039-03	SCREW,TRUS,PHIL, 8-32X 1/2	0	0	0	0	4	4
76	76	D-UA-M411-0-0	0M411-YP	32K 18BIT MEMORY ONE 1" BOARD	0	0	0	0	0	0
77	77	D-CS-M9312-0-1	M9312-00	BOOTSTRAP TERMINATOR W 5 EMPTY R	1	1	1	1	1	1
78	78	C-MD-7414962-0-0	7414962-00	BRKT FILTER SUPPORT	0	0	0	0	2	2

D	I	G	I	T	A	L	TITLE	SECTION E OF E	SIZE	CODE	DOCUMENT NUMBER	REV
							UNIT ASSY. 1134A		K	PL	1134A-0-DBP	P

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION ZE	ZF	XW	XZ	YW	YZ
79	79	B-MD-7415599-0-0	7415599-00	BEZEL (DIE CAST)	1	1	1	1	1	1
80	80	D-MD-7415656-0-0	7415656-00	COVER PROTECTIVE BEZEL	1	1	1	1	1	1
81	81		9007031-00	TIE,CABLE BUNDL.DIA 0- 3/4"=101	0	0	0	0	3	3
82	82		9006636-00	WASHER,LOCK,INT,.380OD X .200ID	4	4	4	4	0	0
83	83		9006071-01	SCREW,PAN,PHIL 10-32X 3/8 SS	4	4	4	4	0	0
84	84		9006635-00	WASHER,LOCK,INT,.310OD X .200ID	1	1	1	1	0	0
85	85		9006231-09	SCREW,HEX 10-32X 1/2	1	1	1	1	0	0
86	86	"NOTE 7"	9007786-00	RETAINER, U-NUT, 10-32	12	12	12	12	0	0
87	87	"NOTE 11"	23248F1-00	F1-01	1	1	1	1	1	1
88	88		1209856-02	CLIP, MODULE HOLDER W/O SEPARA	0	0	0	0	A/R	A/R
89	89	K-PL-M7891-0-0	M7891-BC	MS11-LB,54K X 18,PARITY LOGIC,FU	0	0	0	0	0	0
90	90	K-PL-M7891-0-0	M7891-DC	MS11-LD: 128K 18-BIT,PARITY LOG,	1	1	0	0	0	0
91	91	"NOTE 9"	G7273-00	BUS GRANT & NON-PROCESSOR GRANT	6	6	5	5	5	6
92	92		9009700-00	SCREW,TRUS,PHIL,SEMS10-32X .500L	12	12	15	15	0	0
93	93		9007084-00	CLAMP,CABLE,SCREW MTD. 7/16"	1	1	1	1	0	0
94	94	"NOTE 8"	9007032-00	TIE,CABLE BUNDL.DIA 0-1-3/4"=101	3	3	3	3	0	0
95	95	"NOTE 8"	9006264-00	MOUNT, CABLE TIE, ADHESIVE BACKE	3	3	3	3	0	0
96	96	A-PS-3617996-01-0	3617996-01	LABEL,OPT/MODULE 1134A	1	1	1	1	1	1
97	97	"NOTE 4"	3613211-01	DECAL,CLEAR PREPRINTED CSA 1-1/4	1	1	1	1	1	1
98	98	A-PS-3615946-00-0	3615946-00	LABEL,PRODUCT VARIATION	A/R	A/R	A/R	A/R	A/R	A/R
99	99	"NOTE 4"	7416197-00	LABEL, UL	1	1	1	1	1	1
100	100	"NOTE 1"	7003360-01	CABLE ASSY	0	0	1	1	0	0
101	101		9000049-11	SCREW,TRUS,PHIL,SEM 6-32X .375L	4	4	4	4	0	0
102	102	"NOTE 10"	9000049-12	SCREW,TRUS,PHIL,SEMS 8-32X .500L	2	2	2	2	0	0
103	103	"NOTE 10"	9000049-13	SCREW,TRUS,PHIL,SEM 6-32X .500L	2	2	2	2	0	0
104	104	"NOTE 12"	3617880-01	LABEL,NON-COMPLIANT FCC	A/R	A/R	A/R	A/R	A/R	A/R
105	105	B-PL-BA11-L-5		INSTALLATION KIT 5.25	REF	REF	REF	REF	REF	REF
106	106	B-PL-BA11-K-2		INSTALLATION KIT 10.5	REF	REF	REF	REF	REF	REF

107 NOTE: 1.SUPPLIED AND INSTALLIED AT FA&T
108 NOTE: 2.1211825-02 IS AN ALLOWABLE SUBSTITUTE
109 NOTE: 3.EITHER M9312 OR M9301 MAYBE USED BUT NOT BOTH
110 NOTE: 4. USE WHITE ON CLEAR ON BA11-K BOX AND BLACK ON CLEAR ON BA11-L BOX
111 NOTE: 5.DECREASE QTY BY 4 WHEN USING 1211825-01
112 NOTE: 6.ITEM NO. 92 IS AN ALLOWABLE SUBSTITUTE FOR ITEM NOS.72 AND 26
113 NOTE: 7.DECREASE QTY BY 6 WHEN USING 1211825-02
114 NOTE: 8.REQUIRED ONLY WITH ITEM NOS. 16 AND 19
115 NOTE: 9.G727 IS AN ALLOWABLE SUBSTITUTE FOR ITEM NO.91
116 NOTE: 10.DECREASE QTY BY 2 WHEN USING 1211825-01

NOTE: 11.TO BE SHIPPED WITH M9312 ONLY
NOTE: 12.NOT PUT ON 50 HERTZ MACHINES

D	I	G	I	T	A	L	TITLE	SIZE	CODE	DOCUMENT NUMBER	REV
							UNIT ASSY. 1134A SECTION E OF E	K	PL	1134A-0-DBP	P

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

DRAWING DIRECTORY

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CUSTOMER PRINT SET INDEX

SEQUENCE

SEQUENCE

NOTE: 1. EITHER M9312 OR M9301 MAY BE USED BUT NOT BOTH.

THIS IS PRINT SET

5.25" BOX

10.50" BOX

UNIT VARIATIONS

VAR	TITLE	PRINT SET
1134A-DC	KD11-EA, MS11-JP, BA11-LM, M7850	
	M9312-[illegible], 120V	
1134A-DD	KD11-EA, MS11-JP, BA11-LN, M7850	
	M9312-[illegible], 240V	
1134A-HC	KD11-EA, MM11-DP, BA11-LK, M7850	
	M9312-[illegible], 120V	
1134A-HD	KD11-EA, MM11-DP, BA11-LL, M7850	
	M9312-[illegible], 240V	
1134A-LC	1134A-DC & MS11-JP, 120V	
1134A-LD	1134A-DD & MS11-JP, 240V	
1134A-MC	1134A-HC & MM11-DP, 120V	
1134A-MD	1134A-HD & MM11-DP, 240V	
1134A-LH	1134A-DH & MS11-JP, 120V	
1134A-LJ	1134A-DJ & MS11-JP, 240V	
1134A-DH	KD11-EA, MS11-JP, BA11-KA, M7850	
	M9312-[illegible] 115V	
1134A-DJ	KD11-EA, MS11-JP, BA11-KA, M7850	
	M9312-[illegible], 230V	
1134A-MH	1134A-HH & MM11-DP, 120V	
1134A-MJ	1134A-HJ & MM11-DP, 240V	
1134A-HH	KD11-EA, MM11-DP, BA11-KA, M7850	
	M9312-[illegible], 115V	
1134A-HJ	KD11-EA, MM11-DP, BA11-KA, M7850	
	M9312-[illegible], 230V	
1134A-LE	1134A-DE, & MS11-JP, 120V	
1134A-LF	1134A-DF & MS11-JP, 240V	
1134A-DE	KD11-EA, MS11-JP, BA11-KA, M7850	
	M9312-[illegible], DL11-WA, 120V	
1134A-DF	KD11-EA, MS11-JP, BA11-KA, M7850	
	M9312-[illegible], DL11-WA, 240V	

REVISIONS		
REV	CHG. NO.	DATE
A	1134A-3	4-77
B	1134A-5	7-77
C	1134A-6	8-77
D	1134A-7	11-77
E	1134A-8	2-78
F	1134A-12	3-81

USED ON OPTION/MODEL		DRN.	DATE	TITLE
		D. HEALY	NOV 76	
		CHK'D. D. HEALY	DATE NOV 76	UNIT ASSY 1134A
		PROJ ENG. DAVID [illegible]	DATE 13 JAN 77	
		PROD. [illegible]	DATE 13 Jan 77	SIZE B / CODE DD / NUMBER 1134A-Ø / REV F
		FIELD SERVC.	DATE	DIST
SHEET 1 OF 5				

EN-01062-1-A1-9-R872-(325)

DRB 106

T3

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

DRAWING DIRECTORY

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CUSTOMER PRINT SET INDEX

THIS IS PRINT SET ☐☐☐☐

SEQUENCE

SEQUENCE	
1134A-ZC	KD11-EA, M9312,BA11-LM MS11-D 120V
1134A-ZD	KD11-EA, M9312, BA11-LN MS11-LD 240V
1134A-WE	KD11-EA, M9312, BA11-KA MS11-LB 120V
1134A-WF	KD11-EA, M9312, BA11-KA MS11-LB 240V
1134A-XE	KD11-EA, M9312, BA11-KA MS11-LB, KY11-LB 120V
1134A-XF	KD11-LB, M9312, BA11-KA MS11-LB, KY11-LB 240V
1134A-YE	KD11-EA, M9312, BA11-KA, KY11-LB MS11-LD 120V
1134-YF	KD11-EA, M9312, BA11-KA, KY11-LB MS11-LD 240V
1134A-ZE	KD11-EA, M9312, BA11-KA MS11-LD 120V
1134A-ZF	KD11-EA, M9312, BA11-KA MS11-LD, 240V

5.25" BOX

10.5" BOX

10.50" BOX

5.25" BOX

UNIT VARIATIONS		PRINT SET
VAR	TITLE	
1134A-ME	1134A-HE & MM11-DP 120V	
1134A-MF	1134A-HF, MM11-DP 240V	
1134A-HE	KD11-EA, MM11-DP, BA11-KA, M7850 M9312 , DL11-WA, 120V	
1134A-HF	KD11-EA, MM11-DP, BA11-KA, M7850 M9312- , DL11-WA 240V	
1134A-JH	KD11-EA, MM11-YP, BA11-KA, M7850, M9312- 120V	
1134A-JJ	KD11-EA, MM11-YP, BA11-KA, M7850. M9312 , 240V	
1134A-JE	1134A-JH & DL11-WA, KY11-LB, 120V	
1134A-JF	1134A-JJ & DL11-WA, KY11-LB 240V	
1134A-JC	KD11-EA, MM11-YP, BA11-LK, M7850, M9312- , 120V	
1134A-JD	KD11-EA, MM11-YP, BA11-LL, M7850, M9312- , 240V	
1134A-WC	KD11-EA, M9312, BA11-LM MS11-LB 120V	
1134A-WD	KD11-EA, M9312, BA11-LN MS11-LB 240V	
1134A-XC	KD11-EA, M9312, BA11-LM MS11-LB, KY11-LB 120V	
1134A-XD	KD11-EA, M9312, BA11-LN MS11-LB, KY11-LB 240V	
1134A-YC	KD11-EA, M9312, BA11-LM MS11-LD, KY11-LB 120V	
1134A-YD	KD11-EA, M9312, BA11-LN MS11-LD, KY11-LB 240V	

REVISIONS	REV	CHG. NO.	DATE

USED ON OPTION/MODEL	
SHEET 2 OF 5	

DRN. D. HEALY	DATE NOV 76	TITLE UNIT ASSY 1134A	
CHK'D. D. HEALY	DATE NOV 76		
PROJ ENG. [signature]	DATE 13 JAN 77		
PROD. [signature]	DATE 15 Jan 77	SIZE B / CODE DD / NUMBER 1134A-Ø	REV F
FIELD SERV.	DATE	DIST	

EN-01062-1A-16-R972-(3225)

DRB 106

TW

1

1134A UNIT ASSY
B-UA-1134A-Ø-Ø
C-PL-1134A-Ø-Ø

2

1134A PROCESSOR
B-DD-KD11-EA

3

UNIBUS TERM BOOT STRAP
D-CS-M93Ø1-Ø-1

4

UNIBUS TERM SACK TURNAROUND
D-CS-M93Ø2-Ø-1

5

GRANT CONT./NPR GARD
B-DD-G7273-O
D-UA-G7273-O-O
K-PL-G7273-O-DBP

6

SERIAL LINE LINE CLOCK (DL11-W
D-CS-M7856-Ø-1

7

PARITY MEMORY MODULE
D-CS-M785Ø-Ø-1

8

CONSOLE OPERATORS
B-DD-KY11-LA

9

MEMORY, MOS 16K PARITY
B-DD-MS11-J

10

MEMORY CORE

B-DD-MM11-D

11

MTG BOX 10.5
B-DD-BA11-K

12

BOX, MTG 5.25
B-DD-BA11-L

13

POWER SUPPLY ASSEMBLY
B-DD-7013323-0

14

COVER CHASSIS

D-IA-7009768-0-0

15

MEM MOS 32K ECC
B-DD-MS11-K

16

CONSOLE EMULATOR PROGRAMMERS
B-DD-KY11-LB

* 17

BACK PLANE 9 SLOT
B-DD-DD11-P

* 18

COVER PANEL 5.25 (H95Ø-P)
D-DI-H95Ø-Ø-1

** 19

SHIPPING BRACKET
C-MD-7413659-0-0

** 20

INPLANT PKG. INSTRUCTIONS
A-SP-3700235-0-0

** 21

SKID LOAD PKG. INSTRUCTIONS
A-SP-3700165-0-0

** 22

CUSTOM CUSHIONED PKG. INSTR.
A-SP-3700169-0-0

* 23

INPLANT PKG. INSTRUCTIONS
A-SP-3700197-0-0

* 24

CUSTOM CUSHIONED PKG. INSTR.
A-SP-3700061-0-0

* 25

CUSTOM CONSOLIDATED LOAD ASSY
A-SP-3700134-0-0

26

MEMORY, CORE 32K PARITY

B-DD-MM11-YP

27

UNIBUS TERM. BOOT STRAP

B-DD-M9312-Ø

28

MEM MOS
B-DD-MS11-L

* USED FOR 5.25 BOX (BA11-L) ONLY
**USED FOR 10.50 BOX (BA11-K) ONLY

TITLE			SIZE	CODE	NUMBER	REV
UNIT ASSY 1134A	SHEET 3 OF 5		B	DD	1134A-Ø	F

DRB 107
EN-10628-03-16-R1175(12S)

TW

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
1	B-TC-1134A-Ø-1	1134A (Field Maintenance Print Set)	-
	MPØØ19Ø	1134A (Print Set Order Number)	-
	D-UA-1134A-Ø-Ø	1134A Unit Assy	E/M
	C-PL-1134A-Ø-Ø	1134A Unit Assy (PL)	E/M
	A-DC-7409478-Ø-Ø	Decal Patent	M
	B-DC-7414727-0-0	Decal, Sticker	M
	C-IA-7013752-0-0	Cable, Jumper (BA11-L)	E/M
	[illegible]	[illegible]	M
	[illegible]	[illegible]	M
	C-IA-7011413-0-0	Cable, External Boot M93Ø1	E/M
	B-DC-7417820-0-0	Decal, Module Layout	M
	B-MU-DD11-P-2	Module Utilization (DD11-P)	E/M
	C-IA-7011411-0-0	Cable, Console (DD11-PK for L or K Box)	E/M
	D-IA-7011992-0-0	Console, Power Harness (K Box)	E/M
	A-PL-1134A-Ø-4	1134A Shipping List	E/M
	B-MD-7417628-0-0	Bracket, Bezel	M
	B-MD-7417627-0-0	Adapter Bracket, Bezel	M
	B-MD-7417882-0-0	Nut Plate	M
	B-MD-7417883-0-0	Plate, Slide Mounting	M
	A-PS-3613210-0-0	Decal Electrical Data	M
	B-PL-BA11-K-2	PARTS LIST INSTALLATION 10.5 BOX	E/M
	B-PL-BA11-L-5	PARTS LIST INSTALLATION 5.25 BOX	E/M
2	B-DD-KD11-EA	1134A Processor	E/M
	B-PL-M8265-0-8	ROM LISTING	
	B-PL-M8266-0-8	ROM LISTING	
3	D-CS-M93Ø1-Y-1	Unibus Term Boot Strap	E/M
4	D-CS-M93Ø2-Ø-1	Unibus Term Sack Turn Around	E/M
5	B-DD-G7273-0	BUS GRANT/ NPR CONTINUITY GARD	E/M
	D-UA-G7273-0-0	BUS GRANT/NPR CONTINUITY CARD	
	K-PL-G7273-0-DBP	BUS GRANT/ NPR CONTINUITY CARD (P/L)	
	[illegible]	[illegible]	E/M
6	D-CS-M7856-Ø-1	Serial Line/ Line Clock (DL11-W)	E/M
7	D-CS-M785Ø-Ø-1	Parity Memory Module	E/M

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
8	B-DD-KY11-LA	Console, Operators	E/M
9	B-DD-MS11-J	Memory Mos 16K Parity (M7847)	E/M
10	B-DD-MM11-D	Memory Core 16K Parity	E/M
11	B-DD-BA11-K	Mtg. Box 10.50	E/M
12	B-DD-BA11-L	Mtg. Box 5.25	E/M
13	B-DD-7013323-0	Power Supply Assembly	E/M
14	D-IA-7009768-0-0	Cover, Chassis	M
15	B-DD-MS11-K-Ø	Memory Mos 32K ECC (M7984)	E/M
16	B-DD-KY11-LB	Console, Programmers	E/M

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

digital

TITLE	SHEET	SIZE	CODE	NUMBER	REV
UNIT ASSY 1134A	4 OF 5	B	DD	1134A-Ø	F

EN-01082-2C-16-R374-(3357)

DRB 108A

TW

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
17	B-DD-DD11-P	Backplane [illegible] 9 Slot for L & K Boxes	M/E
18	D-DI-H95Ø-P-Ø	Dwg. Index List H95Ø	M
	D-UA-H95Ø-P-Ø	Cover 5-1/4 Bezel	M
19	C-MD-7413659-0-0	Shipping Bracket (BA11-K)	M
			M
			M
20	A-SP-37ØØ235-Ø-Ø	Inplant Pkg. Instructions	M
	A-PS-99Ø5650-Ø-Ø	Regular Slotted Carton	M
	A-PS-99Ø5889-Ø-Ø	Bezel Protector	M
	A-PS-99Ø5644-Ø-Ø	Rear Pad	M
	A-PS-99Ø5323-Ø-Ø	Laminated Saddle	M
	A-PS-99Ø5129-Ø-Ø	Poly Bag	M
21	A-SP-37ØØ165-Ø-Ø	Skid Load Pkg. Instructions	M
	A-BS-1210568-Ø1-Ø	Cushioned Skid	M
	A-PS-99Ø5445-Ø-Ø	Half Overlap Slotted Carton (Top)	M
	A-PS-99Ø5419-Ø-Ø	Flanged Tube (Bottom)	M
22	A-SP-37ØØ169-Ø-Ø	Cust. Cushioned Pkg. Instructions	M
	A-PS-99Ø5645-Ø-Ø	Full Telescope	M
	A-PS 99Ø5642-Ø-Ø	Foam, Pad	M
	A-PS-99Ø5643-Ø-Ø	Foam/Corrugated Side Wall Assy	M
23	A-SP-37ØØ197-Ø-Ø	Inplant Pkg. Instructions	M
	A-PS-99Ø5418-Ø-Ø	Regular Slotted Carton	M
	A-PS-99Ø5754-Ø-Ø	Bezel Protector	M
	A-PS-99Ø5755-Ø-Ø	Laminated Saddle	M
	A-PS-99Ø5129-Ø-Ø	Poly Bag	M
	A-PS-99Ø5729-Ø-Ø	Tape	M

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
		Custom Cushioned Pkg. Instr.	M
24	A-SP-37ØØØ61-Ø-Ø		
25	A-SP-37ØØ134-Ø-Ø	Cushion Consolidated Load Assy.	M
26	B-DD-MM11-YP	Memory, Core 32K Parity	
27	B-DD-M9312-0	Unibus Term. Boot Strap	E/M
28	B-DD-MS11-L-0	MEMORY MOS W/PARITY	

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

digital

TITLE: UNIT ASSY 1134A

SHEET 5 OF 5 | SIZE B | CODE DD | NUMBER 1134A-Ø | REV F

DRB 108A

TW

EN-01062-2C-16-R376(325)

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FIELD MAINTENANCE PRINT SET

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B-TC-KD11-EA-3	1134A PROCESSOR (TC)
D-BD-KD11-EA-2	BLOCK DIAGRAM (KD11-EA)
D-FD-KD11-EA-1	FLOW DIAGRAM (KD11-EA)
D-UA-M8266-Ø-Ø	CONTROL
B-PL-M8266-Ø-Ø	CONTROL (PL)
D-CS-M8266-Ø-1	CONTROL (CS)
D-UA-M8265-Ø-Ø	DATA PATH
B-PL-M8265-Ø-Ø	DATA PATH (PL)
D-CS-M8265-Ø-1	DATA PATH (CS)

UNIT VARIATIONS COVERED BY THIS PRINT SET
KD11-EA

KD11-EA
Field Maintenance Print Set

Digital Equipment Corporation

PRINT SET ORDER NO.
MPØØ192

REVISIONS	REV.	CHG. NO.	DATE

USED ON OPTION/MODEL
1134A

SHEET 1 OF 1

DRN. D. HEALY	DATE OCT 76	digital
CHK'D D. HEALY	DATE OCT 76	TITLE: 1134A PROCESSOR
PROJ. ENG. J W Mitchell	DATE 12-20-76	
FIELD SERV. Don Evans	DATE 12-20-76	

SIZE	CODE	NUMBER	REV.
B	TC	KD11-EA-3	
DIST.			

EN-0114-16-N695(32)

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I.R. (K2-6)
LOAD I R
FP11-A LOAD IR
FP11-A ATTACHED
I R DECODE (K2-6)
AUX ALU CONTROL (K2-5)
ALU S <3:0>
μ BRANCH CONTROL (K2-6)
BUT DECODE (K2-3, K2-7)
FP11-A MPC INTERFACE
CONTROL STORE ROM (K2-8, K2-9)
CONTROL STORE REGISTER (K2-8, K2-9)
CONTROL SIGNALS
CLOCK K1-5
PROC CLK
REG CLK
BUS CONTROL (K2-1, K2-2)
D/R
BX MODE <1:0>
BX REG (K1-1→K1-4)
B MODE <1:0>
B REG (K1-1→K1-4)
CC DATA
+1
+16
PSW MUX (K1-1, K1-4)
B MUX (K1-1→K1-4)
AUX CONTROL
BLEG <1:0>
LOAD PSW
PSW (K1-1, K1-2, K1-4)
SPM (K1-1→K1-4)
SPAM (K2-4)
PBA IRS IRD ROM
PDR (K1-7)
PSW VBA
ERROR LOGIC (K1-8)
VBA
SR2 (K1-5)
SRØ (K1-8)
PAR (K1-7)
KT SRØ
PAR+PDR
MUX ENAB
KT MUX (K1-9)
B ALU A (K1-1→K1-4)
MODE
ALUS (3:0)
CIN
VBA (K1-6)
CONSTANTS
TRI STATE AMUX H
AMUXS <1:0>
A MUX (K1-1→K1-4) 74S253
FP11-A AMUX INTERFACE
CC LOGIC (K1-10, K2-5)
CC DATA
SWAP
SEX
SS MUX (K1-1→K1-4)
D/R
+
H BA
L (K1-6)
S
RELOCATE
D/A
PBA
UNIBUS
TO FP11-A
SERVICE BR
P FAIL BR PENDING
1134 CLK
PROC INIT

REVISIONS		
CHK	CHANGE NO.	REV.

DRN. B.D. Angell	19 DEC 76	FIRST USED ON
CHK'D D Konopka	20 DEC 76	digital
ENG. [illegible]	20 DEC 76	TITLE BLOCK DIAGRAM KD11-EA
PROJ. ENGR. [illegible]	[illegible]	
PROD. [illegible]	[illegible]	
NEXT HIGHER ASSY.		
8-DD-KD11-EA		SIZE D CODE BD NUMBER KD11-EA-2 REV.
SCALE		
SHEET OF		DIST.

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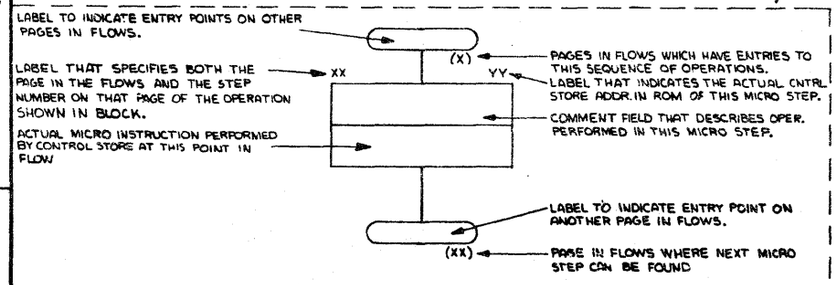
KDII-E CONTROL WORD

E116	E109	E108	E107	E106	E93	E97	E98	E100	E104	E103	E105	← INTEGRATED CIRCUIT DESIGNATION
Ø 1 2 3	4 5 6 7	8 9 10 11	12 13 14 15	16 17 18 19	20 21 22 23	24 25 26 27	28 29 30 31	32 33 34 35	36 37 38 39	40 41 42 43	44 45 46 47	
X X X X	X X X X	X Ø Ø Ø	Ø Ø Ø Ø	1 Ø Ø 1	Ø 1 Ø Ø	Ø Ø Ø Ø	Ø Ø Ø 1	Ø Ø Ø Ø	Ø Ø 1 1	1 1 Ø Ø	Ø Ø Ø Ø	← NORMAL CONDITION OF EACH BIT

- ROM SPA H (R17)
- FORCE KERNEL H (NOP)
- BUT SERVICE H (NOP)
- PREVIOUS MODE L (NOP)
- FORCE RS V I L (NOP)
- SPA DST SEL H (RBA)
- SPA SRC SEL H (ROM)
- BUT BITS (NOP)
- AMUX CONTROL H (ALU)
- SSMUX CONTROL H (STRT)
- B,BX,OVX,DBE CONTROL H (HOLD)
- ALU,BLEG CONTROL H (A)
- AUX CONTROL H (NOP)
- LONG CYCLE L (SHORT)
- LOAD BAR (NOP)
- ENAB MAINT H (NOP)
- BUS CONTROL H (DATI)
- DATA TRAN H (NO TRANS)
- MISCELLANEOUS CONTROL H (NOP)
- NEXT MPC ADDRESS H (NO DEFALT)

NOTE:

THIS SET OF FLOW DIAGRAMS ONLY DOCUMENTS MICROWORD LOCATIONS FROM ØØØØ TO Ø51 (DECIMAL). MICROWORD LOCATIONS FROM Ø512 TO 1023 (DECIMAL) ARE DOCUMENTED AS PART OF THE FPII-A FLOW DIAGRAMS (SEE D-FD-FPII-A-1)



DEFINITION OF FLOW SYMBOLS

BUS CONTROL

OPERATION	CNTRL 13	CNTRL 14
DATI	Ø	Ø
DATIP	Ø	1
DATO	1	Ø
DATOB	1	1

MISC. CONTROL

OPERATION	MISC 9	MISC 10	MISC 11
NOP	Ø	Ø	Ø
LOAD IR	Ø	Ø	1
LOAD PSW	Ø	1	Ø
LOAD CC	Ø	1	1
BUT DEST	1	Ø	Ø
ENAB STOW	1	Ø	1
LOAD CNT	1	1	Ø
COUNT	1	1	1

ALU/BLEG CONTROL

ALU FUNCTION	ALU/BLEG CNTRL 19	20	21	22	23
ZERO	Ø	Ø	Ø	Ø	Ø
ABAR	Ø	Ø	Ø	Ø	1
A+1	Ø	Ø	Ø	1	Ø
A-1	Ø	Ø	Ø	1	1
A-B	Ø	Ø	1	Ø	Ø
A	Ø	Ø	1	Ø	1
B	Ø	Ø	1	1	Ø
ONE BAR	Ø	Ø	1	1	1
A+B	Ø	1	Ø	Ø	Ø
A-B	Ø	1	Ø	Ø	1
ABAR-B	Ø	1	Ø	1	Ø
AVB	Ø	1	Ø	1	1
A*B	Ø	1	1	Ø	Ø
A-BBAR	Ø	1	1	Ø	1
K16	Ø	1	1	1	Ø
A+B+1	1	Ø	Ø	Ø	Ø
A+BX	1	Ø	Ø	Ø	1
A-BX	1	Ø	Ø	1	Ø
A+BX+1	1	Ø	Ø	1	1
A+Z	1	Ø	1	Ø	Ø
A-Z	1	Ø	1	Ø	1
A+A	1	Ø	1	1	Ø
BX	1	Ø	1	1	1
BBAR	1	1	Ø	Ø	Ø
BXBAR	1	1	Ø	Ø	1
A+A+1	1	1	Ø	1	Ø

B,BX,OVX,DBE CONTROL

OPERATION	B,BX CNTRL 24	25	26	27
HOLD	Ø	Ø	Ø	Ø
LOAD B	Ø	Ø	Ø	1
LOAD BX	Ø	Ø	1	Ø
SL(BX-Ø),LDB	Ø	Ø	1	1
SL(BX-COUT),LDB	Ø	1	Ø	Ø
SL(BX-1),LDB	Ø	1	Ø	1
SL (B-Ø)	Ø	1	1	Ø
SL(B-Ø),LDBX	Ø	1	1	1
SL (B-BX15)	1	Ø	Ø	Ø
SL (BX-Ø)	1	Ø	Ø	1
SL (BX-1)	1	Ø	1	Ø
SL(BX-OVX)	1	Ø	1	1
SL (BX-COUT)	1	1	Ø	Ø
SL (B-BX-Ø)	1	1	Ø	1
SR (BIS-B-BX)	1	1	1	Ø
ENAB DBE	1	1	1	1

AMUX CONTROL

SELECT	AMUX 30	AMUX 31
PSW	Ø	Ø
ALU	Ø	1
VECT	1	Ø
UBUS	1	1

SS MUX CONTROL

SELECT	SS 28	SS 29
STRT	Ø	Ø
SEX	Ø	1
SWAB	1	Ø
EXTRNL	1	1

BUT BITS

BRANCH COND.	BITS 32	33	34	35
NOP	Ø	Ø	Ø	Ø
N BIT	Ø	Ø	Ø	1
Z BIT	Ø	Ø	1	Ø
C@5	Ø	Ø	1	1
IR9	Ø	1	Ø	Ø
BX@@	Ø	1	Ø	1
BX@1	Ø	1	1	Ø
COUT	Ø	1	1	1
SPIS	1	Ø	Ø	Ø
NBIT + Z BIT	1	Ø	Ø	1
BX@@ + SPIS	1	Ø	1	Ø
BX@1 + BX@@	1	Ø	1	1
C@5 + BX@1 + BX@@	1	1	Ø	Ø
NBIT + C@5	1	1	Ø	1
BX@@ + C@5	1	1	1	Ø
ALL	1	1	1	1

SPA SRC SEL

FIELD SEL.	SPA SRC SEL 36	SPA SRC SEL 37
ROM	Ø	Ø
RS	Ø	1
RD	1	Ø
RBA	1	1

SPA DST SEL

FIELD SEL.	SPA DST SEL 38	SPA DST SEL 39
ROM	Ø	Ø
RS	Ø	1
RD	1	Ø
RBA	1	1

ROM SPA LINES

REG. SELECTED	ROM SPA 44	45	46	47
R5	1	Ø	1	Ø
R6 (SP)	1	Ø	Ø	1
R7 (PC)	1	Ø	Ø	Ø
R10	Ø	1	1	1
R11	Ø	1	1	Ø
R12	Ø	1	Ø	1
R13	Ø	1	Ø	Ø
R14	Ø	Ø	1	1
R15	Ø	Ø	1	Ø
R16	Ø	Ø	Ø	1
R17	Ø	Ø	Ø	Ø

A "1" IN THE TABLES SHOWN INDICATES A LOGIC "1" ROM OUTPUT BETWEEN +2.4 VOLTS AND +5.Ø VOLTS.

A "Ø" IN THE TABLES SHOWN INDICATES A LOGIC "Ø" ROM OUTPUT BETWEEN Ø.Ø VOLTS AND +Ø.4 VOLTS.

NOTE THAT ALL LEVELS SHOWN REPRESENT ACTUAL CONTROL STORE ROM OUTPUTS.

REVISIONS	REV.	CHANGE NO.	CHK

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
1134A		PARTS LIST		

DIMENSIONAL TOLERANCE
DIMENSIONS ARE MILLIMETERS / INCHES
UNLESS OTHERWISE SPECIFIED

MILLIMETERS	INCHES	ANGLES
X.XX ±0.10	.XXX ±.005	±0° 30'
X.X ±0.5	.XX ±.02	
X ±2.	.X ±.1	

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓

MATERIAL

FINISH

DRN	J Rodgers	DATE 18 OCT 76
CHK'D	J Healy	DATE 6 NOV 76
ENG		DATE
PROJ. ENG.	P WHITEHELL	DATE 5 Dec 76
PROD.	P Bishop	DATE 6 Dec 76

digital

TITLE: KDII-EA FLOW DIAGRAMS

NEXT HIGHER ASSY. 3-DD-<DII-EA

SCALE

SHEET 1 OF 26

SIZE	CODE	NUMBER	REV.
D	FD	KDII-EA-1	

DIST.

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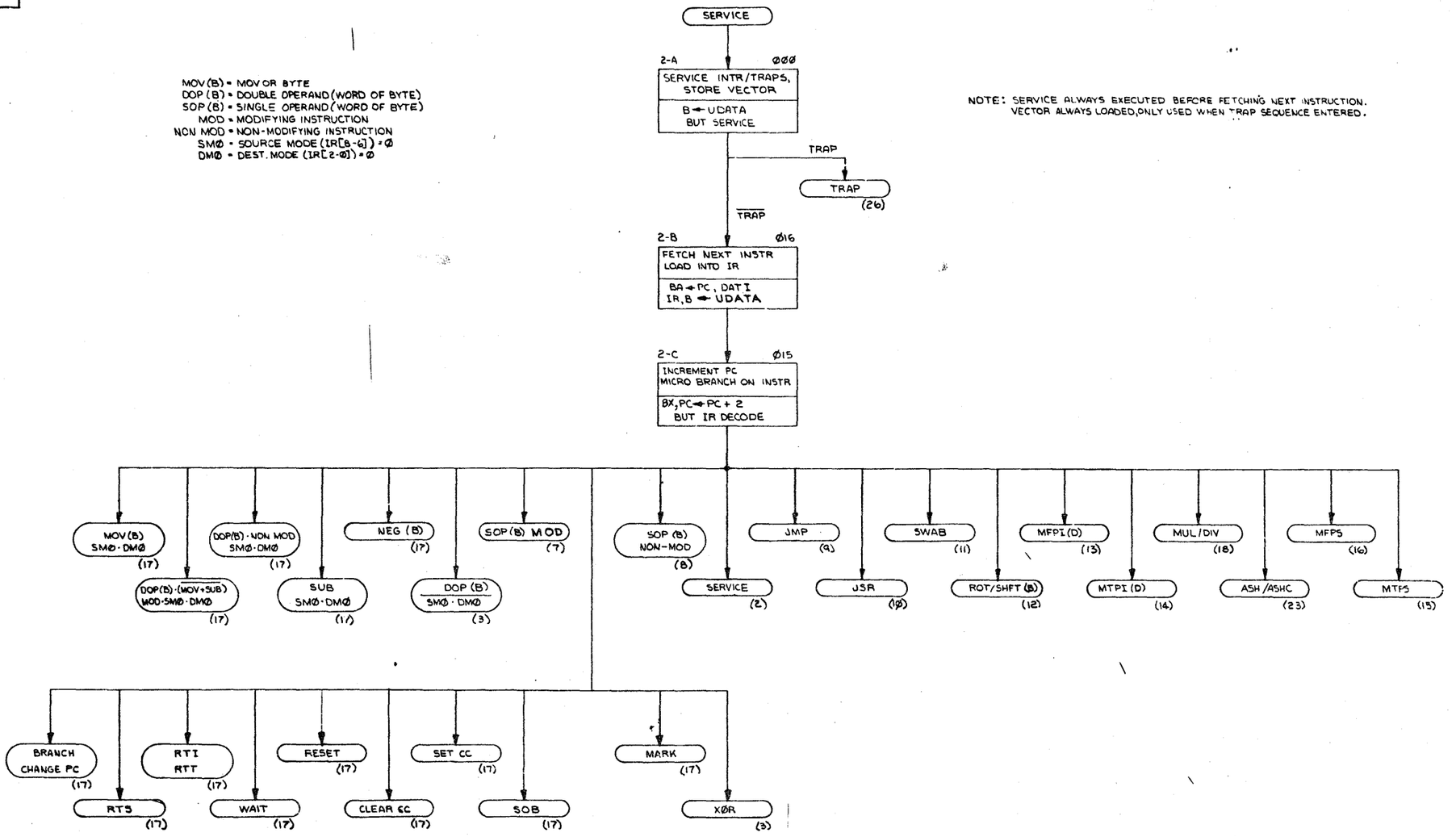
MOV(B) = MOV OR BYTE
DOP(B) = DOUBLE OPERAND (WORD OF BYTE)
SOP(B) = SINGLE OPERAND (WORD OF BYTE)
MOD = MODIFYING INSTRUCTION
NON MOD = NON-MODIFYING INSTRUCTION
SMØ = SOURCE MODE (IR[8-6]) = Ø
DMØ = DEST. MODE (IR[2-Ø]) = Ø

NOTE: SERVICE ALWAYS EXECUTED BEFORE FETCHING NEXT INSTRUCTION.
VECTOR ALWAYS LOADED, ONLY USED WHEN TRAP SEQUENCE ENTERED.



REVISIONS		
CHK	CHANGE NO.	REV

TITLE	SIZE	CODE	NUMBER	REV.
KDII-EA FLOW DIAGRAMS	D	FD	KDII-EA-1	
SCALE —	SHEET 2 OF 26	DIST.		

DEC FORM NO. DRD 138

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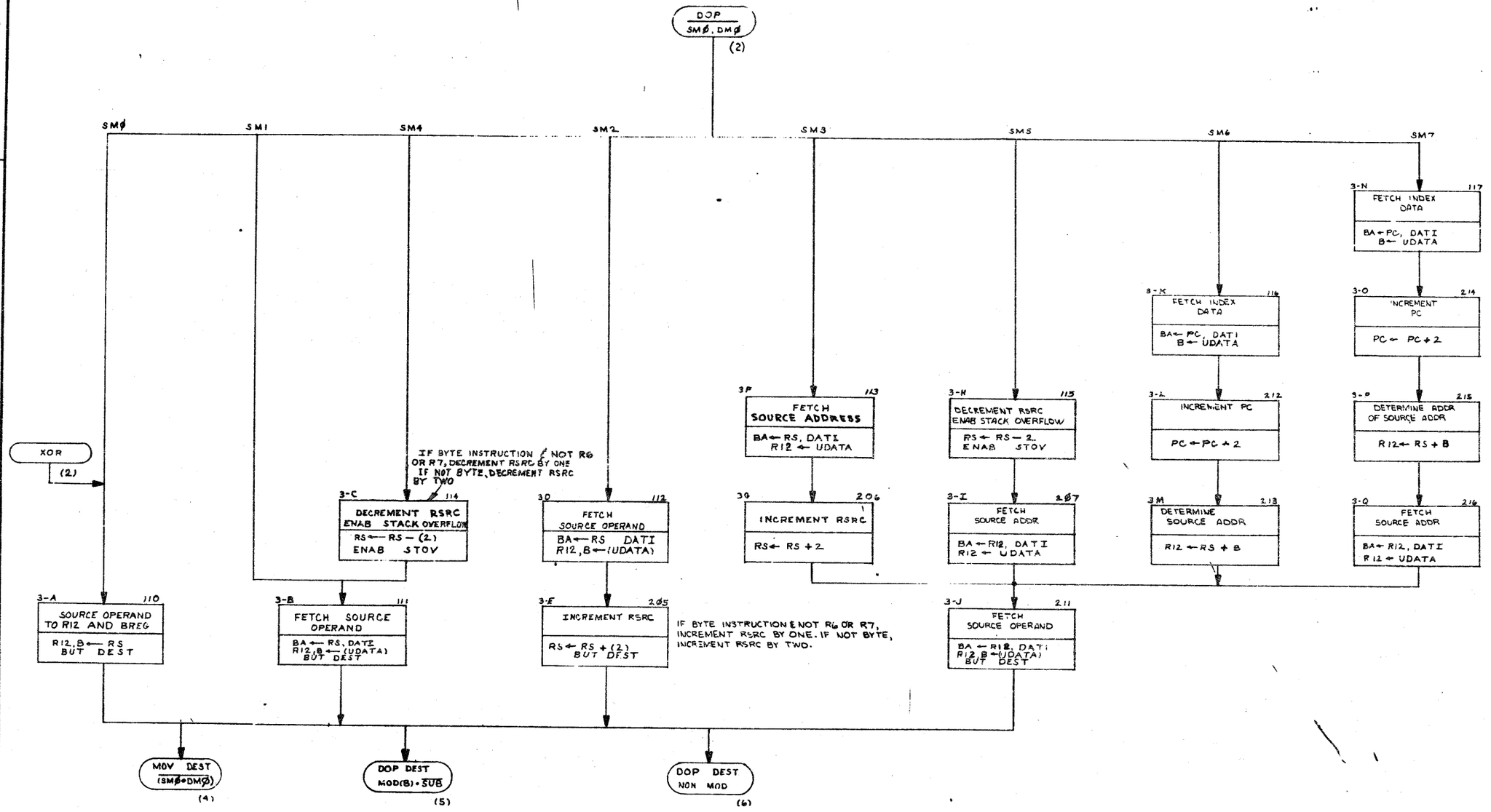

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
KD11EA FLOW DIAGRAMS	D	FD	KD11-EA-1	
SCALE —	SHEET 3 OF 26	DIST.		

DEC FORM NO. DRD 138

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MOV - DEST (SMØ-DMØ)
(2)

DMØ | DM1 | DM4 | DM2 | DM3 | DM5 | DM6 | DM7

DMØ AUX
(5,12)

4-A Ø50
OPERATE AND LOAD COND CODES
RD ← (R12 OP B)
LOAD CC

SERVICE
(2)

OPERATION PERFORMED DEPENDS ON INSTRUCTION

IF BYTE INSTRUCTION AND NOT R6 OR R7, DECREMENT RDEST BY ONE. IF NOT BYTE DECREMENT RDEST BY TWO.

4-C Ø54
DECREMENT RDST ENAB STACK OVERFLOW
RD ← RD-(2)
ENAB STOV

4-B Ø51
SET UP DEST ADDR
BA ← RD
MAINT

4-P Ø52
SET UP DEST ADDR INCREMENT RDST
BA ← RD MAINT
RD ← RD+(2)

IF BYTE INSTRUCTION AND NOT R6 OR R7, INCREMENT RDST BY ONE. IF NOT BYTE, INCREMENT RDEST BY TWO

4-F Ø53
FETCH DEST ADDR
BA ← RD, DATI
R13 ← U DATA

4-G 141
INCREMENT RDST
RD ← RD+2

4-H Ø55
DECREMENT RDST ENAB STACK OVERFLOW
RD ← RD-2
ENAB STOV

4-I 142
FETCH DEST ADDR
BA ← RD, DATI
R13 ← U DATA

4-J Ø56
FETCH INDEX DATA
BA ← PC, DATI
B ← U DATA

4-K 144
INCREMENT PC
PC ← PC+2

4-L 145
DETERMINE DEST ADDR
R13 ← RD+B

4-M Ø57
FETCH INDEX DATA
BA ← PC, DATI
B ← U DATA

4-N 146
INCREMENT PC
PC ← PC+2

4-O 147
DETERMINE ADDR OF DEST. ADDR
R13 ← RD+B

4-P 24;
FETCH DEST ADDR
BA ← R13, DATI
R13 ← U DATA

4-Q 143
SET UP DEST ADDR
ENAB KT MAINT
BA ← R13
MAINT

4-E 217
GET DEST DATA AND STORE, ENAB KT MAINT
DATO(B)
UDATA ← (R12 OP B)
LOAD CC MAINT

OPERATION PERFORMED DEPENDS ON INSTRUCTION

WRITE, NO LOAD
(5,7,12,13,16)

SERVICE
(2)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
KDII-EA FLOW DIAGRAMS	D	FD	KDII-EA-1	
SCALE —	SHEET 4 OF 26	DIST.		

DEC FORM NO. DRD 138

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DOP DEST
MOD(B)-SUB
/9

DM0 | DM1 | DM4 | DM2 | DM3 | DM5 | DM6 | DM7

5-A Ø70
DEST. OPERAND TO BREG
RI3, B←RD

DM0 AUX
(4)

5-B Ø71
FETCH DEST OPERAND
BA←RD, DATIP
RI3, B←(UDATA)
MAINT

5-C Ø74
DECREMENT RDST
ENAB STACK OVERFLOW
RD←RD-(2)
ENAB STOV

IF BYTE INSTRUCTION & NOT R6 OR R7, DECREMENT RDST BY ONE. IF NOT BYTE, DECREMENT BY TWO.

5-D Ø72
FETCH DEST. OPERAND
BA←RD, DATIP
RI3, B←(UDATA)
MAINT

5-E 242
INCREMENT RDST
RD←RD+(2)

IF BYTE INSTRUCTION & NOT R6 OR R7, INCREMENT RDST BY ONE. IF NOT BYTE, INCREMENT BY TWO.

WRITE, NO LOAD
(4)

5-F Ø73
FETCH DEST ADDR
BA←RD, DATI
RI3←UDATA

5-G 243
INCREMENT RDST
RD←RD+2

5-H Ø75
DECREMENT RDST
ENAB STACK OVERFLOW
RD←RD-2
ENAB STOV

5-I 244
FETCH DEST ADDR.
BA←RD, DATI
RI3←UDATA

5-J 245
FETCH DEST OPERAND
BA←RI3, DATIP
RI3, B←(UDATA)
MAINT

5-K Ø76
FETCH INDEX DATA
BA←PC, DATI
B←UDATA

5-L 246
INCREMENT PC
PC←PC+2

5-M 247
DETERMINE DEST ADDR
RI3←RD+B

5-N Ø77
FETCH INDEX DATA
BA←PC, DATI
B←UDATA

5-O 661
INCREMENT PC
PC←PC+2

5-P 261
DETERMINE ADDR OF DEST ADDR
RI3←RD+B

5-Q 262
FETCH DEST ADDR
BA←RI3, DATI
RI3←UDATA

REVISIONS		
CHK	CHANGE NO.	REV

TITLE	SIZE	CODE	NUMBER	REV.
KDII-EA FLOW DIAGRAMS	D	FD	KDII-EA-1	
SCALE —	SHEET 5 OF 26		DIST.	

DEC FORM NO. DMD 138

NUMBER KDII-EA-1
SIZE CODE DFD
REV.

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DOP DEST NON MOD (3)

DM0 DM1 DM4 DM2 DM3 DM5 DM6 DM7

IF BYTE INSTRUCTION AND NOT RG OR R7, DECREMENT RDST BY ONE.
IF NOT BYTE, DECREMENT BY TWO.

6-A 060
DEST. OPERAND TO BREG
R13, B ← RD

6-B 061
FETCH DEST OPERAND
BA ← RD, DATI
R13, B ← (U DATA), MAINT

6-C 064
DECREMENT RDST ENAB STACK OVERFLOW
RD ← RD - (2)
ENAB STOV

6-D 062
FETCH DEST OPERAND
BA ← RD, DATI
R13B ← (U DATA), MAINT

6-E 263
INCREMENT RDST
RD ← RD + (2)

IF BYTE INSTRUCTION AND NOT RG OR R7, INCREMENT RDST BY ONE.
IF NOT BYTE, INCREMENT BY TWO.

6-F 063
FETCH DEST ADDR
BA ← RD, DATI
R13 ← U DATA

6-G 264
INCREMENT RDST
RD ← RD + 2

6-I 065
DECREMENT RDST ENAB STACK OVERFLOW
RD ← RD - 2
ENAB STOV

6-J 266
FETCH DEST ADDR
BA ← RD, DATI
R13 ← U DATA

6-K 267
FETCH DEST. OPERAND
BA ← R13, DATI
R13,B ← (U DATA), MAINT

6-L 066
FETCH INDEX DATA
BA ← PC, DATI
B ← U DATA

6-M 662
INCREMENT PC
PC ← PC + 2

6-N 271
DETERMINE DEST. ADDR
R13 ← RD + B

6-O 067
FETCH INDEX DATA
BA ← PC, DATI
B ← U DATA

6-P 272
INCREMENT PC
PC ← PC + 2

6-Q 273
DETERMINE ADDR OF DEST ADDR
R13 ← RD + B

6-R 274
FETCH DEST ADDR.
BA ← R13, DATI
R13 ← U DATA

6-H 265
OPERATE AND LOAD COND CODES
R12 OP B
LOAD CC

OPERATION PERFORMED DEPENDS ON INSTRUCTION

NON MOD AUX (8)

SERVICE (2)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
KDII-EA FLOW DIAGRAMS	D	FD	KDII-EA-1	
SCALE —	SHEET 6 OF 26	DIST.		

DEC FORM NO. DRD 138

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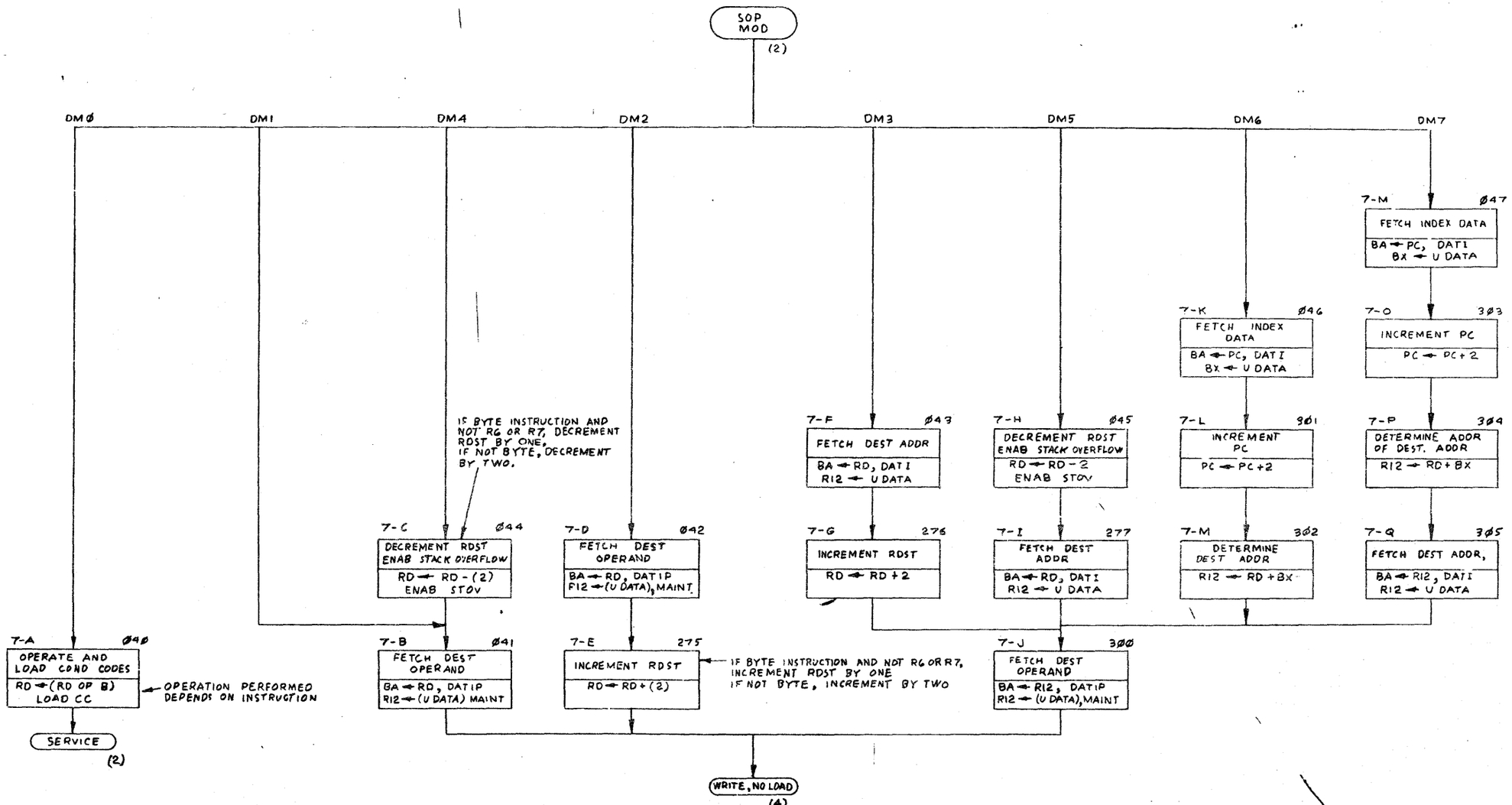

REVISIONS		
CHK	CHANGE NO	REV.

TITLE	SIZE	CODE	NUMBER	REV.
KDII-EAFLOW DIAGRAMS	D	FD	KDII-EA-1	
SCALE —	SHEET 7 OF 26	DIST.		

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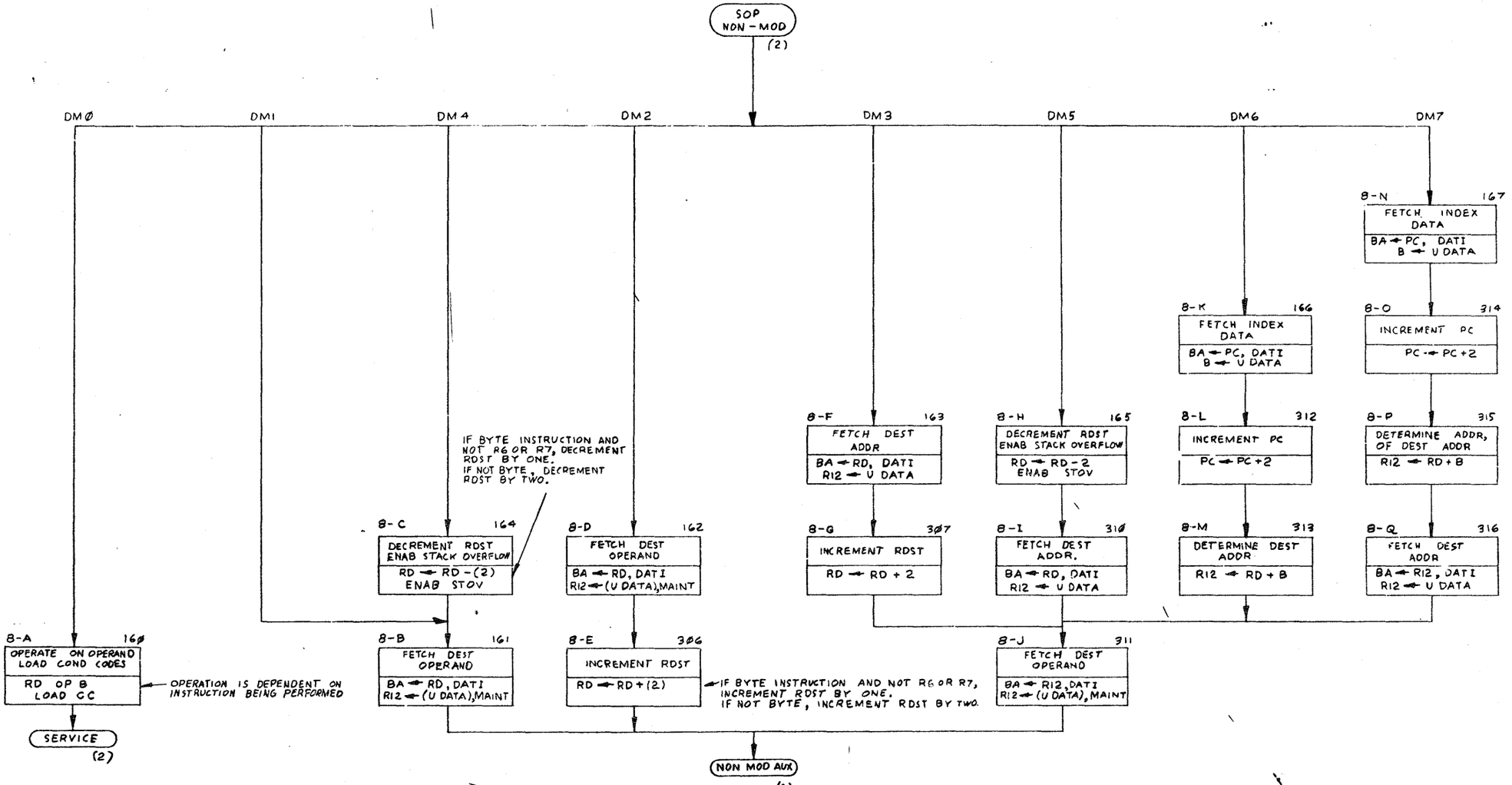

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
KDII-EA FLOW DIAGRAM	D	FD	KDII-EA-1	
SCALE —	SHEET 8 OF 26	DIST.		

DEC FORM NO. DRD 138

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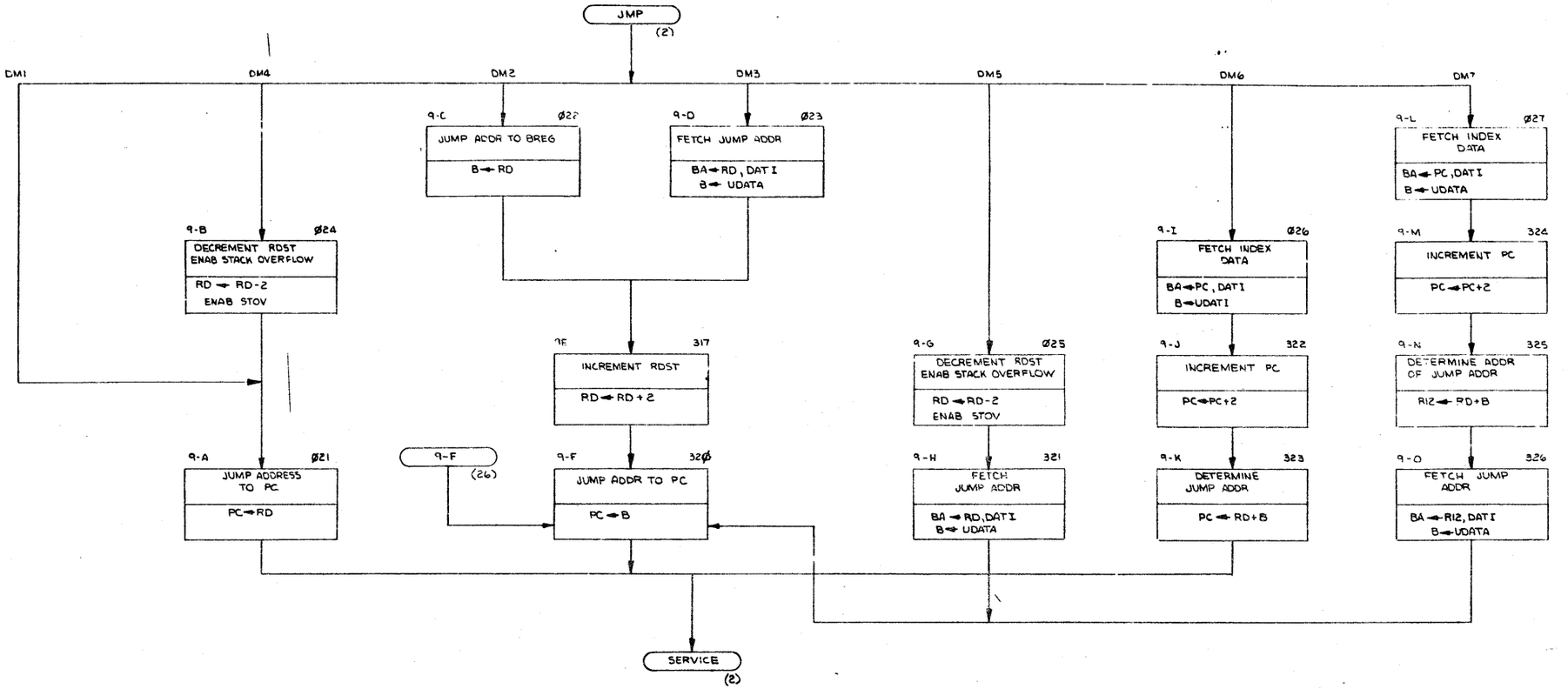

REVISIONS		
CHK	CHANGE NO	REV.

TITLE	SIZE	CODE	NUMBER	REV.
KDII-EA FLOW DIAGRAMS	D	FD	KDII-EA-1	
SCALE —	SHEET 9 OF 26	DIST.		

DEC FORM NO. DRD 338

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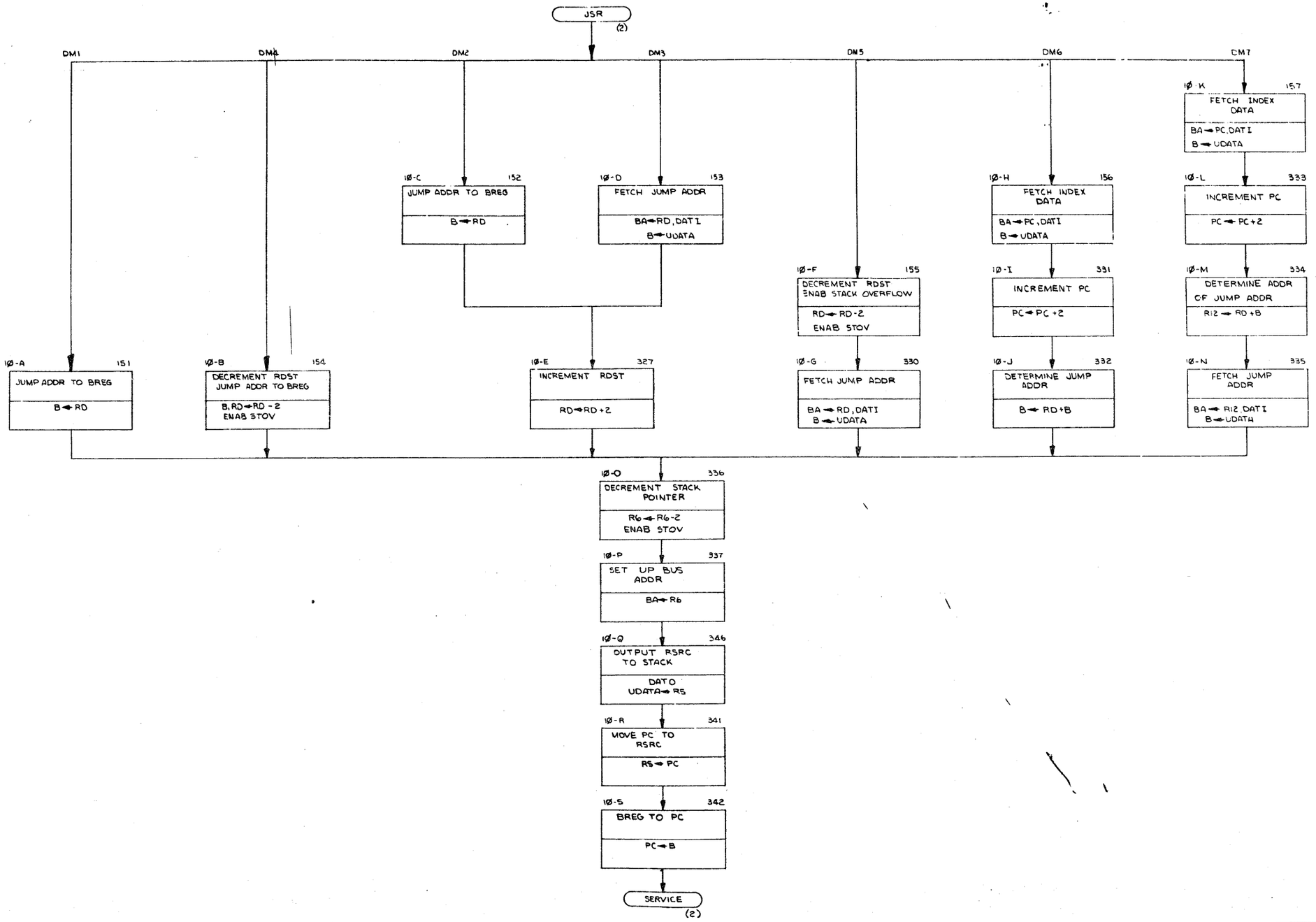

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
KDII-EA FLOW DIAGRAMS	D	FD	KDII-EA-1	
SCALE —	SHEET 10 OF 26	DIST.		

DEC FORM NO. DRD 138

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SWAB
(2)

DM0 | DM1 | DM4 | DM2 | DM3 | DM5 | DM6 | DM7

11-A 030
SWAPPED DEST OPERAND TO REG 12
R12 ← RD SWAB

11-B 343
LOAD COND CODES
RD ← R12 OP B
LOAD CC

SERVICE
(2)

11-D 034
DECREMENT RDST
ENAB STACK OVERFLOW
RD ← RD - 2
ENAB STOV

11-C 031
FETCH SWAPPED DEST OPERAND
BA ← RD, DATIP
R12 ← UDATA SWAB, MAINT

UPPER AND LOWER BYTES OF UNIBUS DATA ARE SWAPPED DURING INPUT

11-E 032
FETCH SWAPPED DEST OPERAND
BA ← RD, DATIP
R12 ← UDATA SWAB, MAINT

UPPER AND LOWER BYTES OF UNIBUS DATA ARE SWAPPED DURING INPUT

11-F 344
INCREMENT RDST
RD ← RD + 2

11-G 033
FETCH DEST ADDR
BA ← RD, DATI
R12 ← U DATA

11-H 345
INCREMENT RDST
RD ← RD + 2

11-I 035
DECREMENT RDST
ENAB STACK OVERFLOW
RD ← RD - 2
ENAB STOV

11-J 346
FETCH DEST ADDR
BA ← RD, DATI
R12 ← U DATA

11-R 354
FETCH SWAPPED DEST OPERAND
BA ← R12 DATIP
R12 ← U DATA SWAB, MAINT

UPPER AND LOWER BYTES OF UNIBUS DATA ARE SWAPPED DURING INPUT

11-K 036
FETCH INDEX DATA
BA ← PC, DATI
B ← U DATA

11-L 347
INCREMENT PC
PC ← PC + 2

11-M 350
DETERMINE DEST ADDR
R12 ← RD + B

11-N 037
FETCH INDEX DATA
BA ← PC, DATI
B ← U DATA

11-O 351
INCREMENT PC
PC ← PC + 2

11-P 352
DETERMINE ADDR OF DEST. ADDR
R12 ← RD + B

11-Q 353
FETCH DEST ADDR
BA ← R12, DATI
R12 ← U DATA

11-S 355
STORE DATA
LOAD COND CODES
DATO, MAINT
U DATA ← R12 OP B
LOAD CC

SERVICE
(2)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE: KDII-EA FLOW DIAGRAMS		SIZE: D	CODE: FD	NUMBER: KDII-EA-1
SCALE: —	SHEET 11 OF 26	DIST.		

DEC FORM NO. DRD 138

DFD KDII-EA-1

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ROT SHIFT (2)

DM0 | DM1 | DM4 | DM2 | DM3 | DM5 | DM6 | DM7

12-A 170
DEST OPERAND TO BREG
B ← RD

12-B 356
SHIFT OPERAND
B ← B

DM0 AUX (4)

12-D 174
DECREMENT RDST
ENAB STACK OVERFLOW
RD ← RD -(2)
ENAB STOV

IF BYTE INSTRUCTION AND NOT R6 OR R7, DECREMENT RDST BY ONE
IF NOT BYTE, DECREMENT BY TWO

12-E 172
FETCH DEST OPERAND
BA ← RD, DATIP
RII, B ← (U DATA) MAINT

12-C 171
FETCH DEST OPERAND
BA ← RD, DATIP
R12, B ← (U DATA), MAINT

12-F 375
INCREMENT RDST
RD ← RD + (2)

IF BYTE INSTRUCTION AND NOT R6 OR R7, INCREMENT RDST BY ONE
IF NOT BYTE, INCREMENT BY TWO

12-G 173
FETCH DEST, ADDR
BA ← RD, DATI
RII ← U DATA

12-H 360
INCREMENT RDST
RD ← RD + 2

12-I 175
DECREMENT RDST
ENAB STACK OVER FLOW
RD ← RD - 2
ENAB STOV

12-J 361
FETCH DEST ADDR
BA ← RD, DATI
R12 ← U DATA

12-K 362
FETCH DEST OPERAND
BA ← R12, DATIP
R12, B ← (U DATA) MAINT

12-L 176
FETCH INDEX DATA
BA ← PC, DATI
B ← U DATA

12-M 363
INCREMENT PC
PC ← PC + 2

12-N 364
DETERMINE DEST ADDR
R12 ← RD + B

12-O 177
FETCH INDEX DATA
BA ← PC, DATI
B ← U DATA

12-P 365
INCREMENT PC
PC ← PC + 2

12-Q 366
DETERMINE ADDR OF DEST ADDR
R12 ← RD + B

12-R 367
FETCH DEST ADDR
BA ← R12, DATI
R12 ← U DATA

12-S 370
SHIFT OPERAND
B ← B

WRITE, NO LOAD (4)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
KDII-EA FLOW DIAGRAMS	D	FD	KDII-EA-1	
SCALE —	SHEET 12 OF 36	DIST.		

DEC FORM NO. DRU 138

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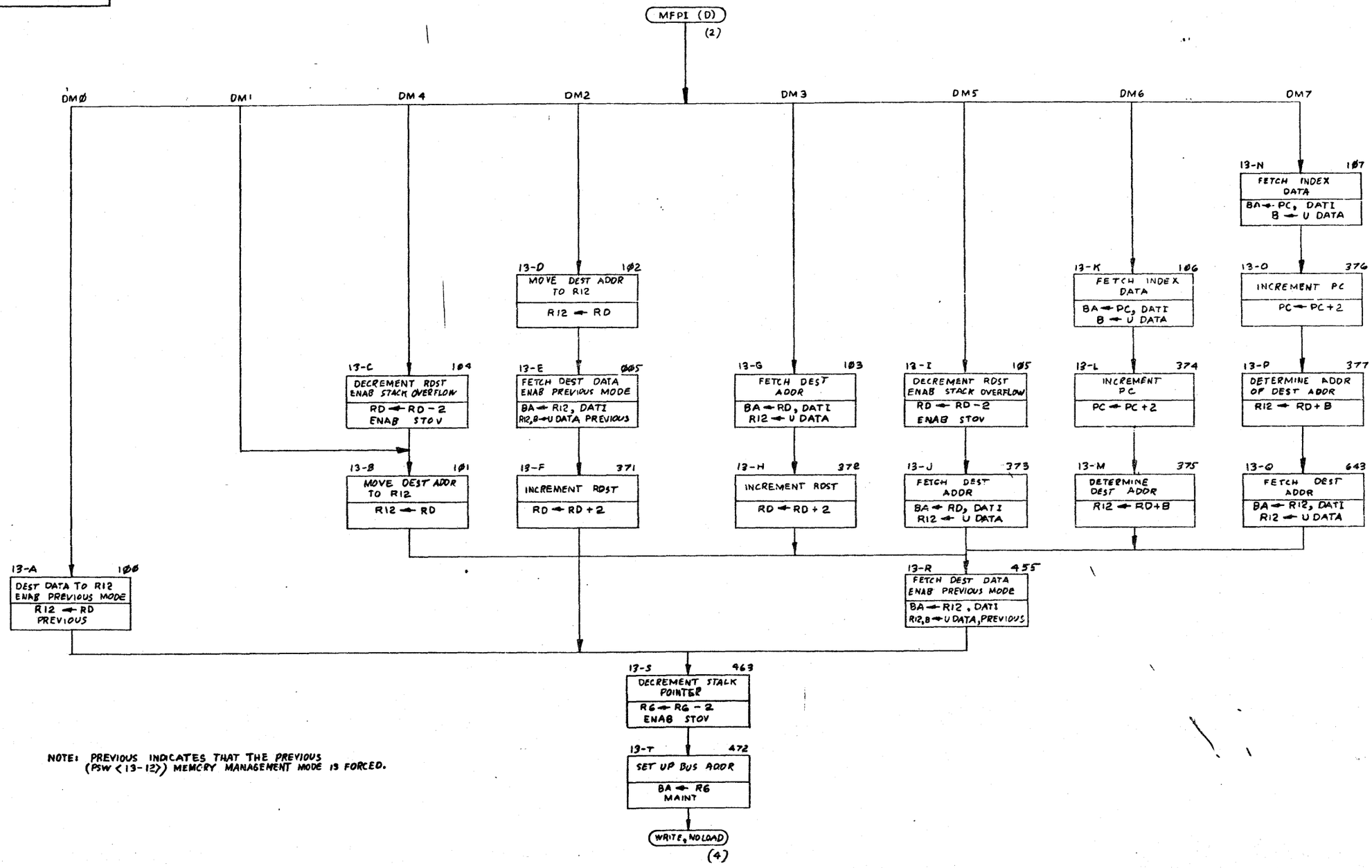

NOTE: PREVIOUS INDICATES THAT THE PREVIOUS (PSW <13-12>) MEMORY MANAGEMENT MODE IS FORCED.

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
KDII-EA FLOW DIAGRAMS	D	FD	KDII-EA-1	
SCALE —	SHEET 13 OF 26	DIST.		

DEC FORM NO. BAD 138

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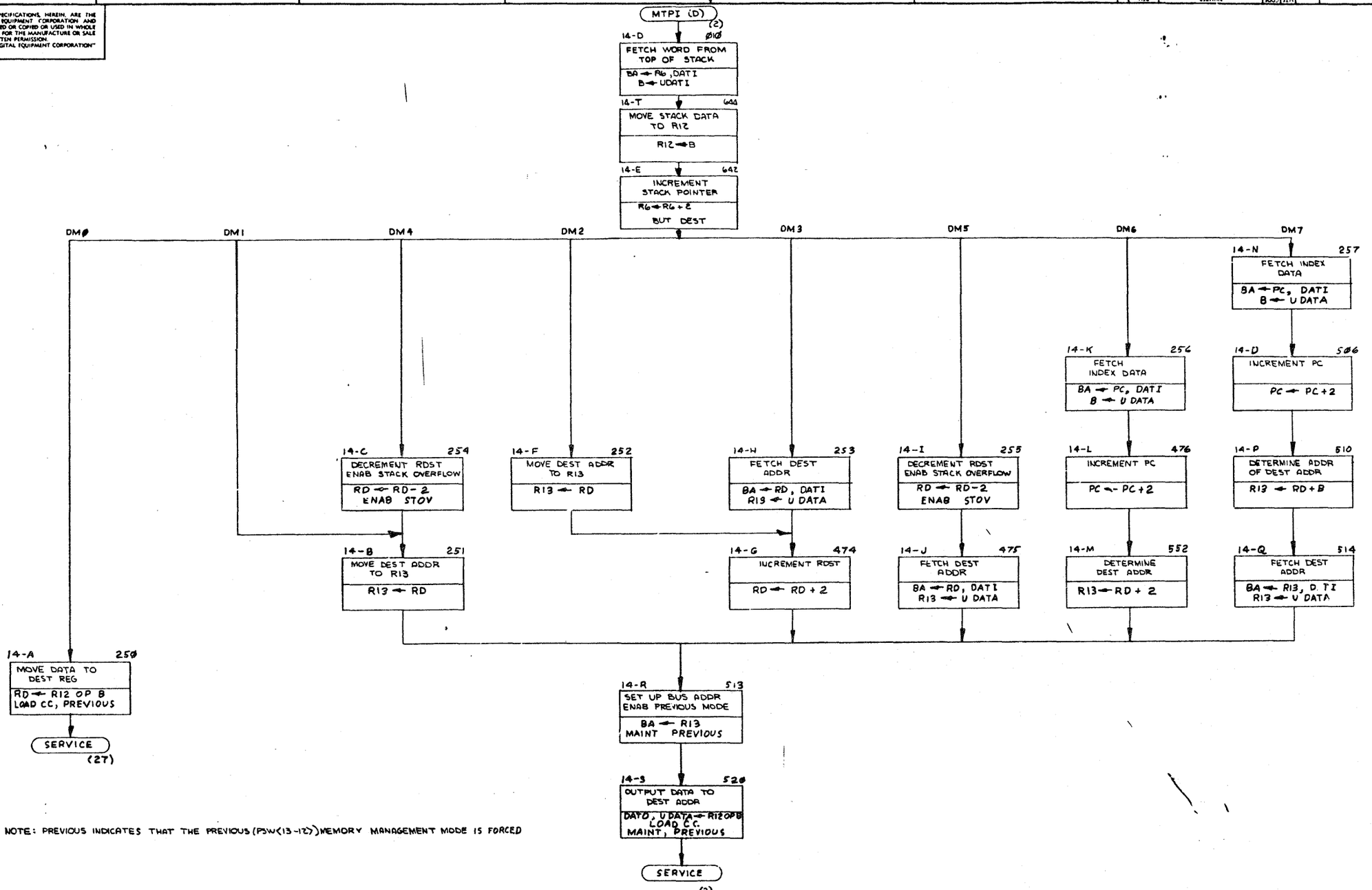

NOTE: PREVIOUS INDICATES THAT THE PREVIOUS (PSW<13-12>) MEMORY MANAGEMENT MODE IS FORCED

REVISIONS		
CHK	CHANGE NO.	REV

TITLE	SIZE	CODE	NUMBER	REV.
KDII-EA FLOW DIAGRAMS	D	FD	KDII-EA-1	
SCALE —	SHEET 14 OF 26	DIST.		

DEC FORM NO. 3RD 138

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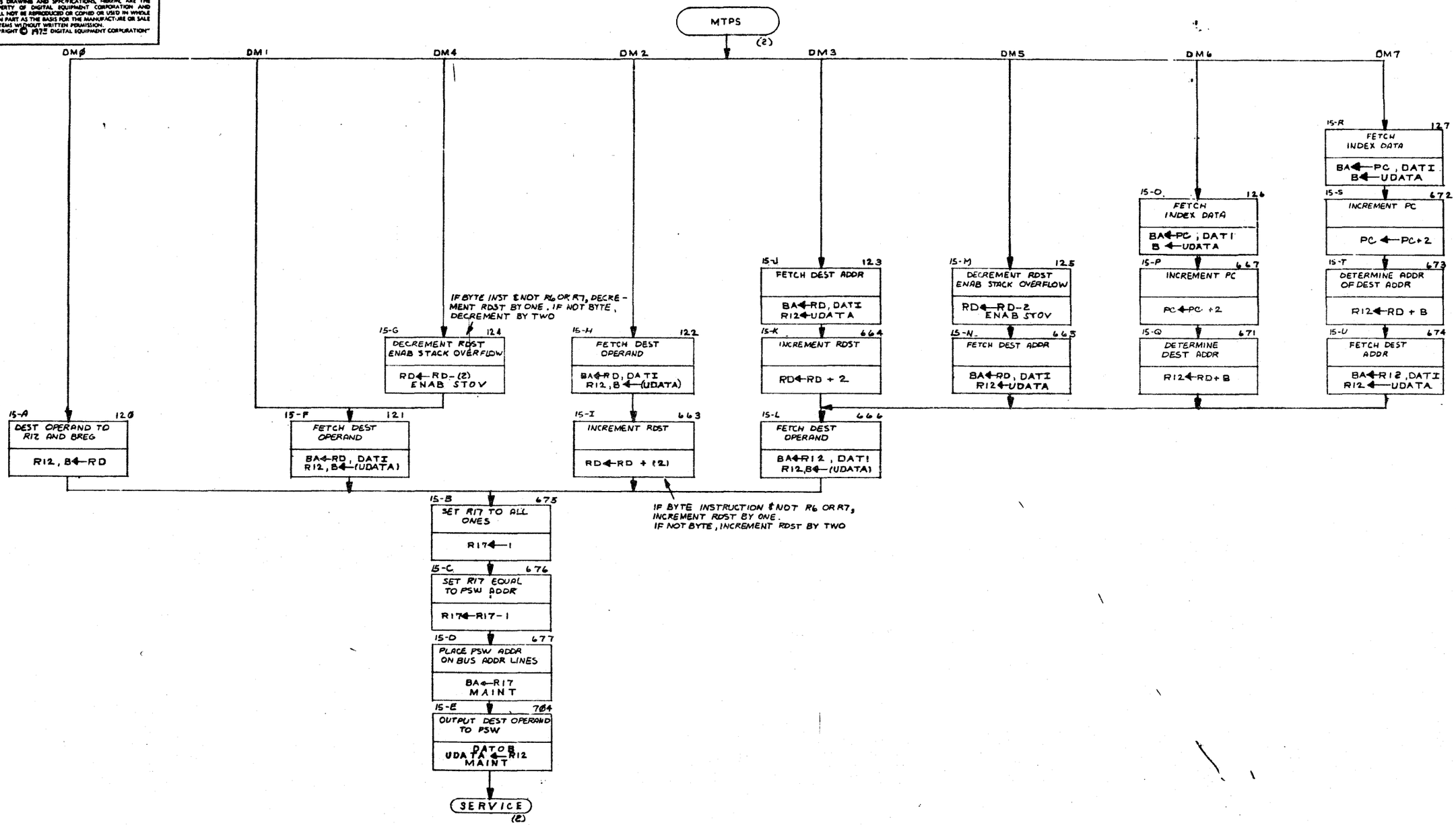

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
KDII-EA FLOW DIAGRAMS	D	FD	KDII-EA-1	
SCALE — / — SHEET 15 OF 26	DIST.			

DEC FORM NO. DRD 138

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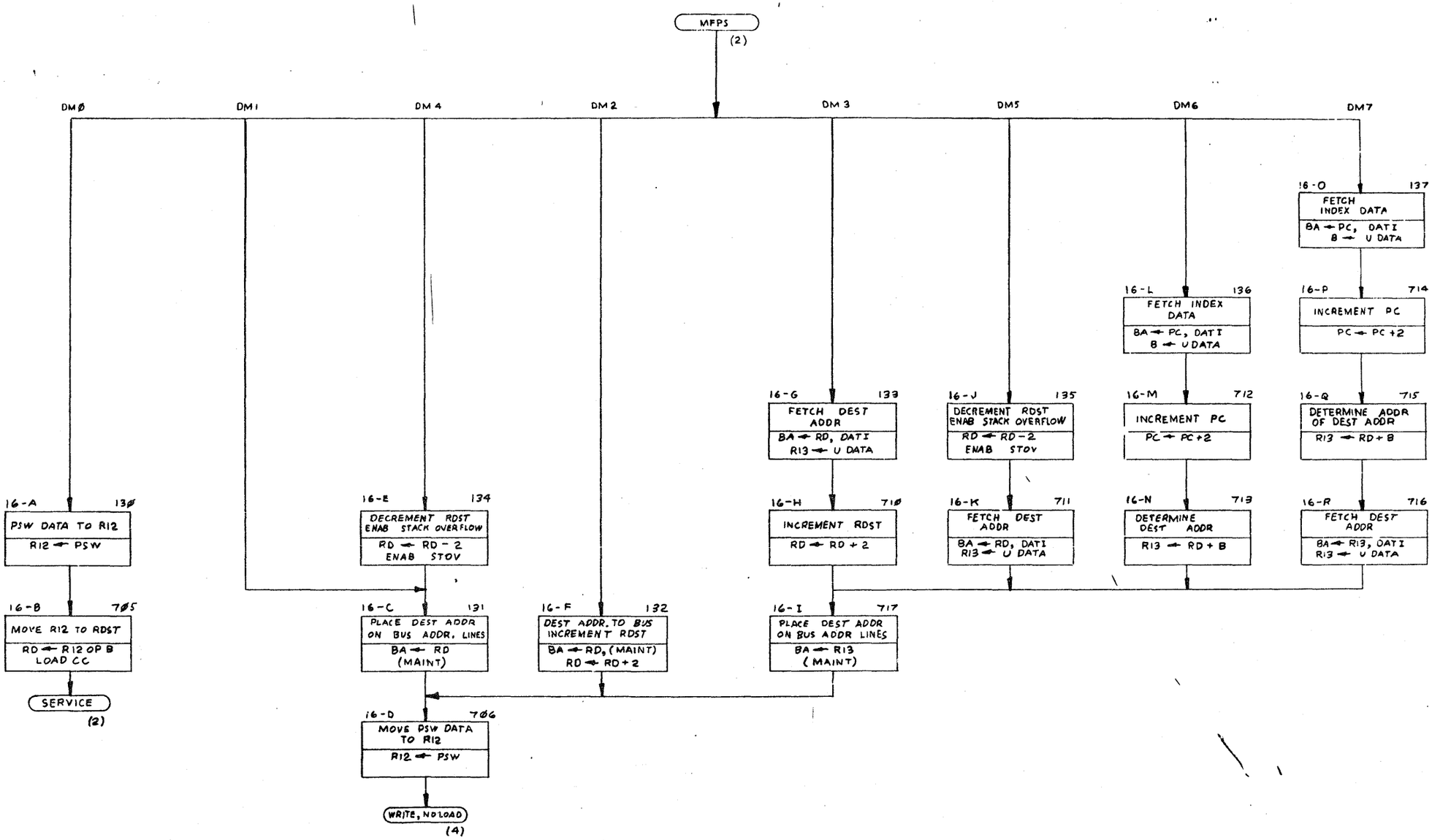

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
KDII-EA FLOW DIAGRAMS	D	FD	KDII-EA-1	
SCALE —	SHEET 16 OF 26	DIST.		

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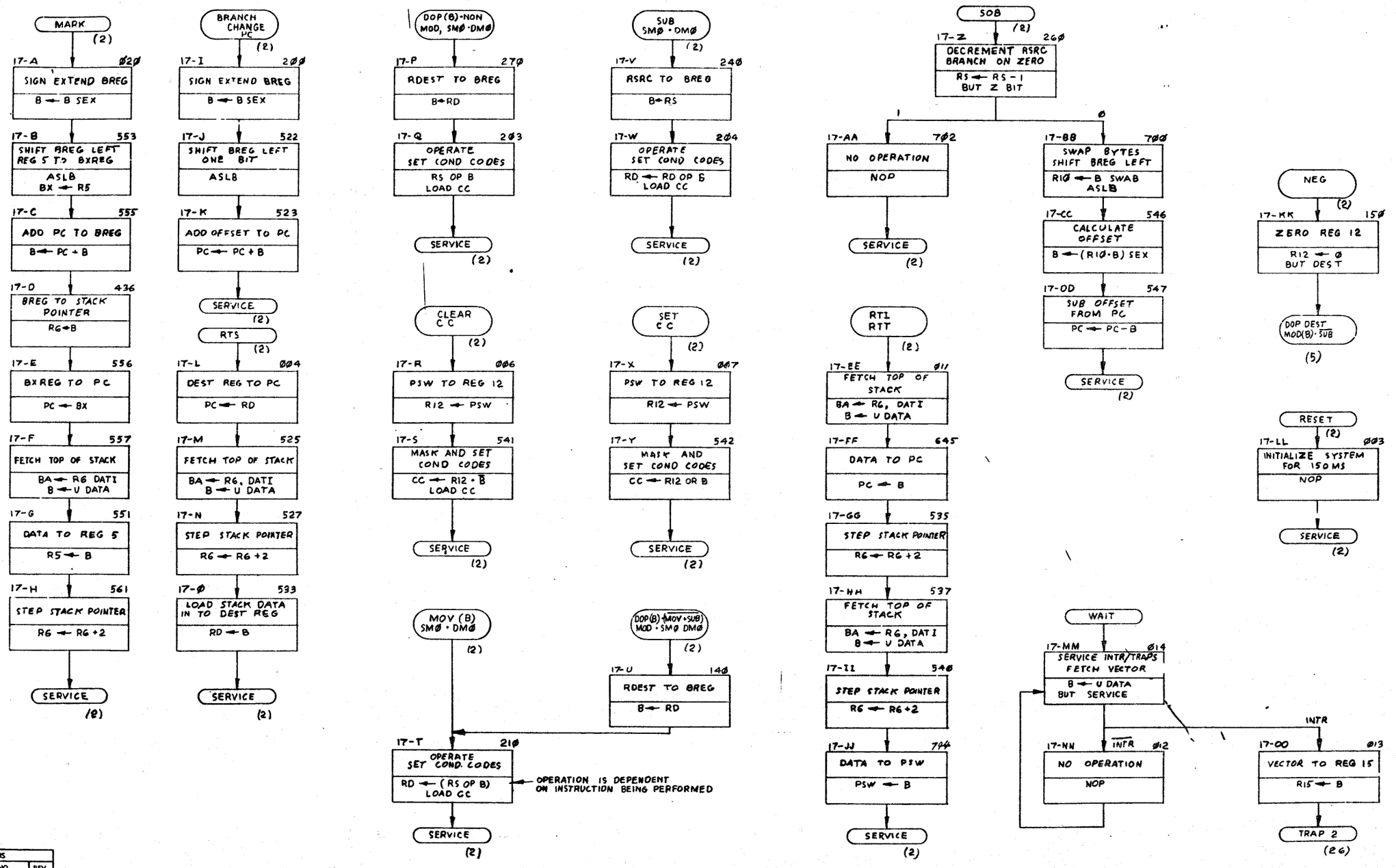

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
KD11-EA FLOW DIAGRAMS	D	FD	KD11-EA-1	
SCALE —	SHEET 17 OF 26	DIST.		

DEC FORM NO. 0RD 1.38

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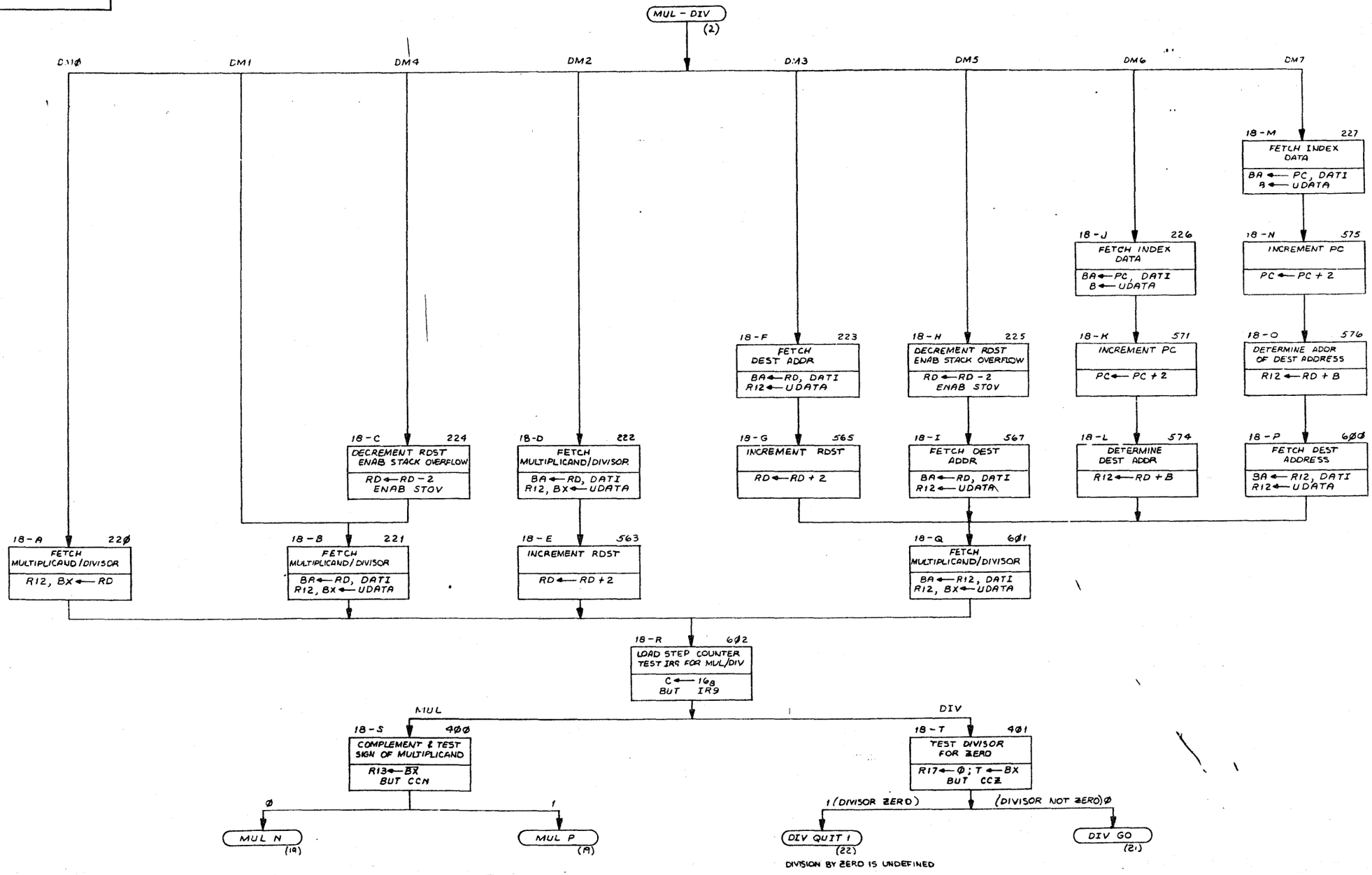

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
KDII EAFLOW DIAGRAMS	D	FD	KDII-EA-1	
SCALE —	SHEET 18 OF 26	DIST.		

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MUL N (18)

19-A 4Ø2
ZERO R17 AND B
TEST MULTIPLICAND
R17, B ← Ø, T ← R13 + 1 BUT CCN

IF THE TWO'S COMPLEMENT OF THE MULTIPLICAND (R13+1) IS ALSO NEG. THAN THE MULTIPLICAND IS THE MOST NEGATIVE NUMBER

MULTIPLICAND MOST NEG # → 1

19-B 5Ø3
PUT MULTIPLIER IN R12 AND TEST SIGN
R12 ← RS BUT CCN

(NEG) 1 → 19-C 5Ø5
PUT ONES COMPLEMENT OF MULTIPLIER IN R13
R13 ← $\overline{RS}$

(POS) Ø → 19-D 4Ø5
PUT ONES COMPLEMENT OF MULTIPLIER IN R13
R13 ← $\overline{RS}$

NOTE THAT MULTIPLICAND IS ALREADY IN BX REG

SWAP AND TEST MULTIPLICER

19-E 6Ø3
TEST TWO'S COMPLEMENT OF MULTIPLIER
T ← R13 + 1 BUT CCN

MUL P (18)

19-I 5Ø2
ZERO R17 AND B
R17, B ← Ø

MULTIPLICAND OK → Ø

19-J 4Ø3
PUT MULTIPLIER IN BX REG
BX ← RS

19-K 6Ø6
TEST LSB OF BX REG FOR FIRST MUL STEP
NOP BUT BXØØ

Ø → 19-L 427
SUB MULTIPLICAND FROM PARTIAL PRODUCT
B ← R13 + B + 1

19-U 4Ø7
SEE NOTE #1
SR (B-BX), COUNT BUT C5, BXØ1, BXØØ

19-M 413
SEE NOTE #1
SR (B-BX), COUNT BUT C5, BXØ1, BXØØ

19-N 473
SEE NOTE #1
SR (B-BX), COUNT BUT C5, BXØ1, BXØØ

19-F 5Ø7
SHIFT RIGHT (1ØØØØØ, 1ØØØØØ)
SR (B-BX)

19-G 6Ø4
LOAD B AND RS WITH (Ø4Ø ØØØ) ← RS IS UPPER PRODUCT
B, RS ← BX

MULTIPLIER MOST NEG # GENERATE ANSWER

19-H 6Ø5
ZERO LOWER PRODUCT
RSv1 ← Ø

SET CC (2Ø)

ØØ → 19-O 453
SUB MULTIPLICAND FROM PARTIAL PRODUCT
B ← R13 + B + 1

Ø1 → 19-P 417
STORE UPPER PRODUCT
RS ← B

1Ø → 19-Q 437
STORE UPPER PRODUCT
RS ← B

11 → 19-R 457
STORE UPPER PRODUCT
RS ← B

1Ø1 → 19-S 477
STORE UPPER PRODUCT
RS ← B

Ø11 → 19-T 433
ADD MULTIPLICAND TO PARTIAL PRODUCT
B ← R12 + B

STORE LP (2Ø)

NOTE 1: SHIFT RIGHT (PARTIAL PRODUCT, MULTIPLIER) DECREMENT COUNTER TEST LOWER BITS OF MULTIPLIER AND SIGN OF COUNTER TO DETERMINE NEXT OPERATION
NOTE THAT THE REDUNDENCY OF 19-U, 19-M AND 19-N IS NECESSARY DUE TO CONSTRAINTS OF MICRO BRANCHING.

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
KDIIEA FLOW DIAGRAMS	D	FD	KDII-EA-1	
SCALE —	SHEET 19 OF 26	DIST.		

DEC FORM NO. DRD 130

DFD KDII-EA-1

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SET CC (13)

STORE LP (13)

2Ø-A 607
STORE LOWER PRODUCT
RSv1 ← BX

2Ø-B 61Ø
COUT IS THE SIGN OF THE PRODUCT
R17 ← Ø, T ← RS + RS
SL(BX - COUT)

SHIFT N BIT INTO BXØØ POSITION

THIS SECTION OF CODE ACCUMULATES THE COND. CODES IN THE LOWER FOUR BITS OF THE BX REG

BX | N | Z | V | C

2Ø-N 7Ø1
TEST UPPER PRODUCT FOR ZERONESS
T ← B BUT CCZ

HP NOT ZERO

HP ZERO

NOTE THAT FOR MUL VBIT IS ALWAYS ZERO

2Ø-C 41Ø
TEST UPPER PRODUCT FOR ALL ONES
T ← B̄ BUT CCZ SL(BX-Ø)

SHIFT ZBIT=Ø INTO BXØØ POSITION

UPPER PRODUCT ALL ONES

UPPER PRODUCT NOT ALL ONES

2Ø-D 422
TEST MSB OF LOWER PRODUCT
T ← RSv1, SL(BX-Ø) BUT CCN

SHIFT VBIT = Ø INTO BXØØ POSITION

2Ø-E 42Ø
SET VBIT
SL(BX-Ø)

SHIFT VBIT=Ø INTO BXØØ POSITION

1 Ø

2Ø-F 515
CLEAR CBIT
SL(BX-Ø)

SHIFT CBIT = Ø INTO BXØØ POSITION

2Ø-G 415
SET CBIT
SL(BX-1)

SHIFT CBIT=1 INTO BXØØ POSITION

2Ø-H 412
TEST LOWER PRODUCT FOR ZERONESS
T ← RSv1, SL(BX-Ø) BUT CCZ

SHIFT ZBIT=Ø INTO BXØØ POSITION

LP ZERO

2Ø-I 416
SET ZBIT NOTE THAT R17=Ø
BX ← R17 + BX + 1

SHIFT ZBIT=1 INTO BXØØ POSITION

2Ø-J 414
TEST MSB OF LOWER PRODUCT
T ← RSv1, SL(BX-Ø) BUT CCN

SHIFT VBIT=Ø INTO BXØØ POSITION

1 Ø

2Ø-K 511
SET CBIT
SL(BX-1)

2Ø-L 411
CLEAR CBIT
SL(BX-1)

SHIFT CBIT=Ø INTO BXØØ POSITION

2Ø-M 611
TRANSFER CONDITION CODES TO PSW
CC ← BX

SERVICE (2)

REVISIONS

CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
KDII-EA FLOW DIAGRAMS	D	FD	KDII-EA-1	
SCALE —	SHEET 20 OF 26	DIST.		

DEC FORM NO. DRD 138

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DIV GO (18)

21-A 400
PUT ONE'S COMPLEMENT OF DIVISOR IN R13
R13 ← $\overline{BX}$

21-B 612
FETCH UPPER DIVIDEND AND TEST SIGN
B ← RS
BUT CCN

DIVIDEND NEGATIVE (1)

21-C 521
FETCH LOWER DIVIDEND
BX ← RSV1

21-D 613
TAKE TWO'S COMPLEMENT OF LOWER DIVIDEND
BX ← R17 − BX
BUT COUT

NOTE THAT R17 IS ZERO

21-E 623
TAKE TWO'S COMPLIMENT OF UPPER DIVIDEND
B ← R17 − B
BUT CCN

21-F 423
TAKE ONES COMPLEMENT OF UPPER DIVIDEND
B ← $\overline{B}$

DIVIDEND MOST NEG NUMBER
DIV QUIT 2 (22)

DIVIDEND POSITIVE (0)

21-L 421
FETCH LOWER DIVIDEND
BX ← RSV1

DIVIDEND OK

21-M 424
SHIFT UPPER DIVIDEND LEFT-TEST SIGN OF DIVISOR
SL(B-BX15), T ← R12
BUT CCN

EXECUTION WILL BE TERMINATED AFTER THE FIRST DIVIDE STEP, IF THE REMAINDER IS NOT ZERO AND THE FIRST QUOTIENT BIT IS A ONE.

FIRST DIVIDE STEP

DIVISOR NEG

21-N 435
SUB DIVISOR FROM DIVIDEND, TEST REMAINDER
B ← B+R12, SL (BX, COUT)
BUT CCZ

DIVISOR POS

21-O 425
SUB DIVISOR FROM DIVIDEND-TEST REMAINDER
B ← B+R13+1, SL(BX-COUT)
BUT CCZ

21-P 440
TEST FIRST QUOTIENT BIT
NOP
BUT BX00

DIV QUIT 3 (22)

21-G 442
SHIFT REMAINDER LEFT
TEST SIGN OF DIVISOR
TEST LSB OF QUOTIENT
T ← R12, SL(B+BX15), COUNT
BUT BX00, CCN

IF BX00 = 1 (LSB OF QUOTIENT) THAN THE REMAINDER IS POSITIVE AND THE DIVISOR IS SUBTRACTED

IF BX00 = 0 (LSB OF QUOTIENT) THAN THE REMAINDER IS NEGATIVE AND THE DIVISOR IS ADDED

21-H 660
SUB DIVISOR FROM REMAINDER = TEST COUNTER SIGN
B ← B+R13+1, SL (BX-COUT)
BUT C05

21-I 670
SUB DIVISOR FROM REMAINDER TEST COUNTER SIGN
B ← B+R12, SL (BX-COUT)
BUT C05

21-J 640
ADD DIVISOR TO REMAINDER TEST COUNTER SIGN
B ← B+R12, SL (BX-COUT)
BUT C05

21-K 650
ADD DIVISOR TO REMAINDER TEST COUNTER SIGN
B ← B+R13+1, SL (BX-COUT)
BUT C05

DIVIDE LOOP

THE PROCESSOR WILL SEQUENCE THROUGH THIS LOOP 15 TIMES

CONTINUE (22)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
KDII-EA FLOW DIAGRAMS	D	FD	KDII-EA-1	
SCALE	SHEET 21 OF 26	DIST.		

DEC FORM NO. DRD 136

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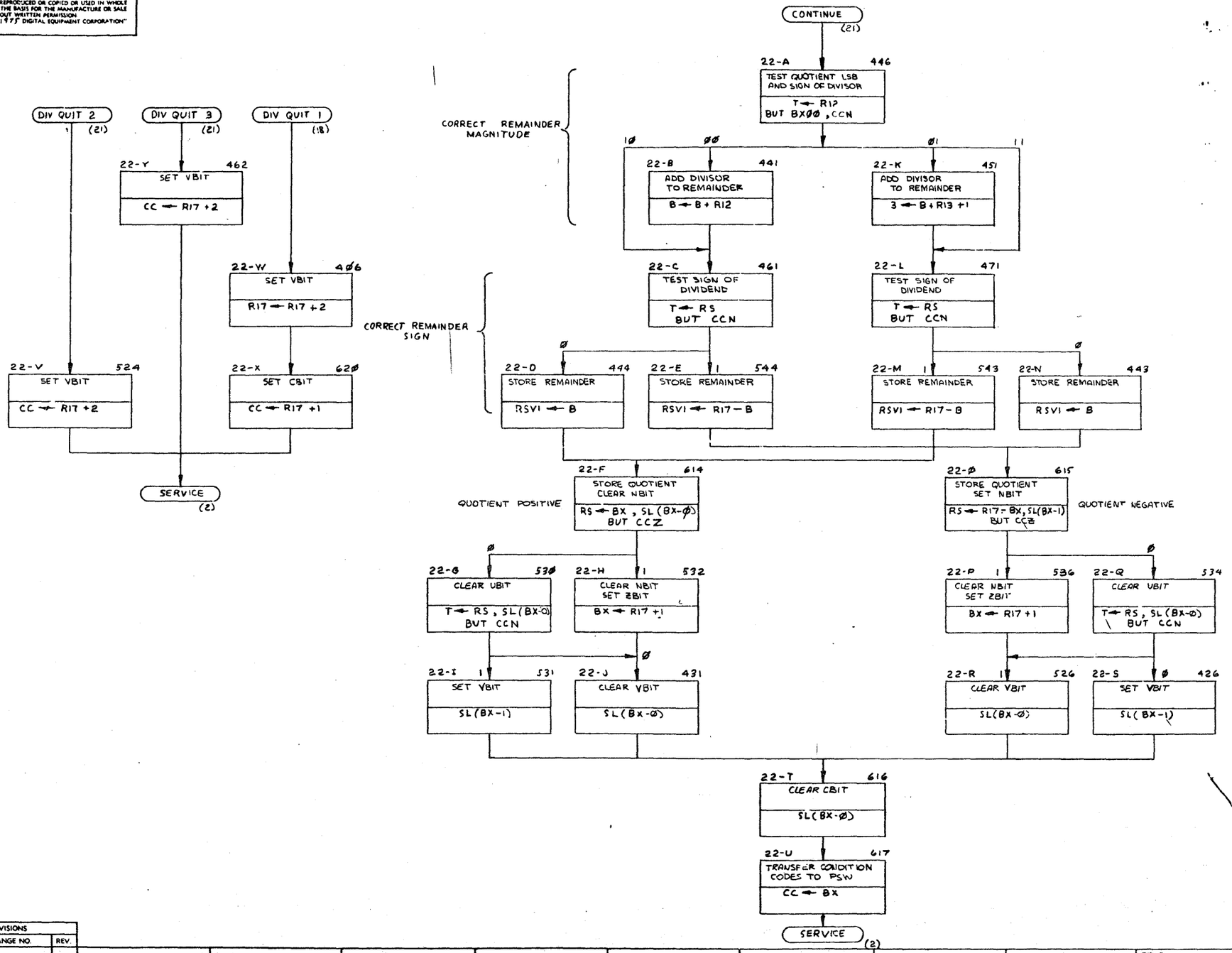

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
KDII-EA FLOW DIAGRAMS	D	FD	KDII-EA-1	
SCALE — SHEET 22 OF 26	DIST.			

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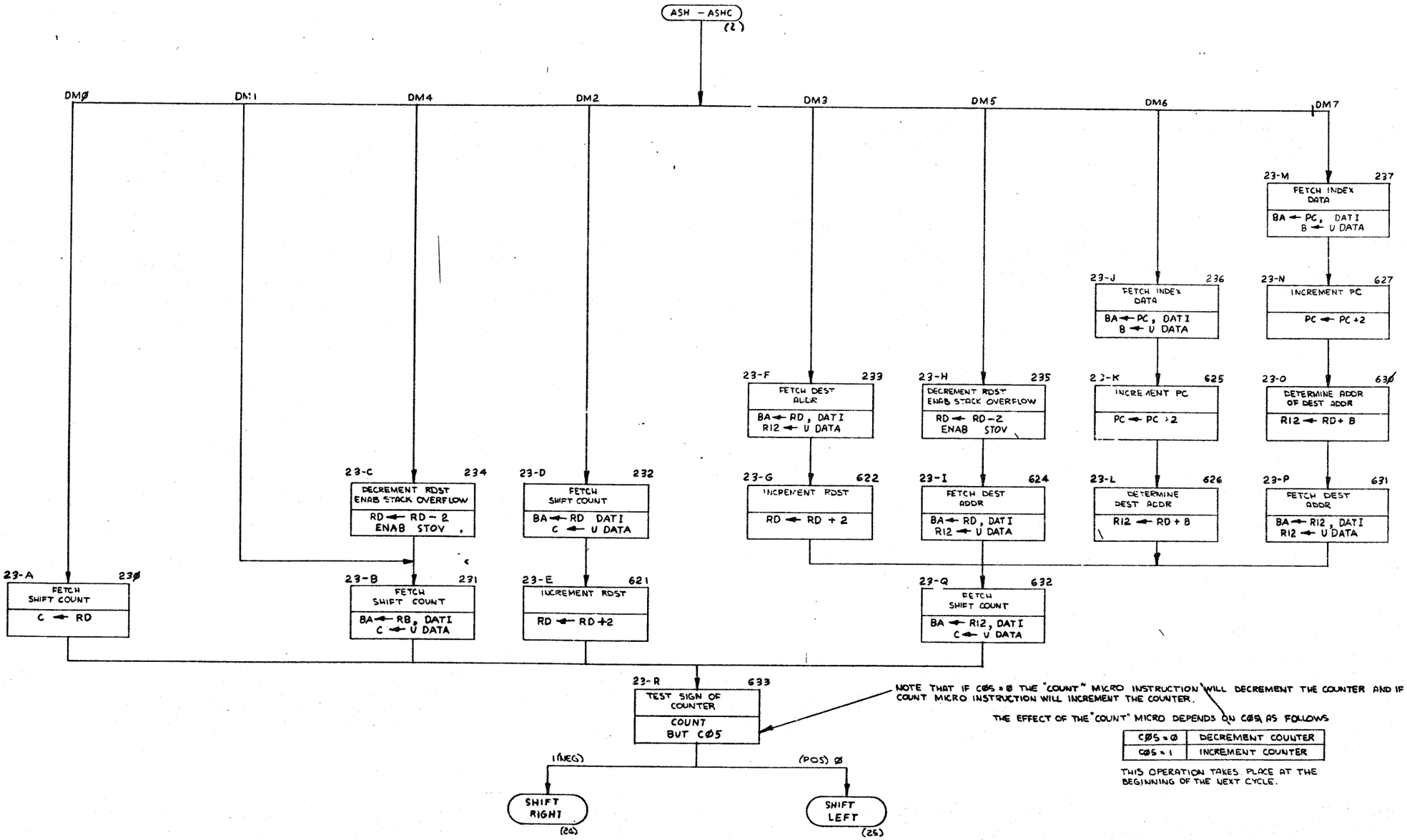

NOTE THAT IF C@5 = 0 THE "COUNT" MICRO INSTRUCTION WILL DECREMENT THE COUNTER AND IF C@5 = 1 THE COUNT MICRO INSTRUCTION WILL INCREMENT THE COUNTER.

THE EFFECT OF THE "COUNT" MICRO DEPENDS ON C@5 AS FOLLOWS

C@5 = 0	DECREMENT COUNTER
C@5 = 1	INCREMENT COUNTER

THIS OPERATION TAKES PLACE AT THE BEGINNING OF THE NEXT CYCLE.

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
KDII-EA FLOW DIAGRAMS	D	FD	KDII-EA-1	
SCALE 1/1	SHEET 23 OF 26	DIST		

DEC FORM NO. DRD 130

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SHIFT RIGHT (23)

24-A 434
TEST IR9 TO DETERMINE ASH/ASHC
B ← RS BUT IR9

FETCH UPPER PART OF OPERAND

ASH

1

24-B 516
SHIFT UPPER PART OF OPERAND
SR(B15-B-BX), COUNT BUT C05

STORE ASH (25)

Ø

24-C 512
STORE UPPER RESULT TEST SIGN ZBIT
RS ← B BUT CCN CCZ

ØI | 1Ø

24-D 447
SAVE BX IN B CLEAR NBIT
B ← BX, SL (BX-Ø)
N=Ø

24-E ØØ 495
SAVE BX IN B CLEAR NBIT
B ← BX, SL (BX-Ø)
N=Ø

24-F 545
SAVE BX IN B SET NBIT
B ← BX, SL (BX-1)
N=1

24-G 634
SET ZBIT
SL (BX-1)
Z=1

24-H 635
CLEAR ZBIT
SL (BX-Ø)
Z=Ø

24-I 636
VBIT ← OVX
MTX ← B, SL (BX-OVX) BUT CCN

24-J 637
VBIT ← OVX
SL (BX-OVX) BUT C05

Ø | 1 | 1 | Ø

24-K 454
CLEAR CBIT
SL (BX-Ø)
C=Ø

24-L 554
SET CBIT
SL (BX-1)
C=1

24-M 55Ø
CLEAR CBIT
SL (BX-Ø)
C=Ø

24-N 641
TRANSFER CONDITION CODES TO PSW
CC ← BX

SERVICE (2)

ASHC

24-O 517
FETCH LOWER PART OF OPERAND
BX ← RSv1

11 | ØI

24-P 727
SHIFT DOUBLE OPERAND RIGHT-INCREMENT COUNTER
SR (B15-B-BX), COUNT BUT BXØØ C05

24-Q 7Ø7
SHIFT DOUBLE OPERAND RIGHT-INCREMENT COUNTER
SR (B15-B-BX), COUNT BUT BXØØ C05

AFTER LEAVING THIS LOOP, THE COUNTER WILL CONTAIN MINUS ONE

ØØ

24-R 723
CLEAR COUNTER TO INDICATE CBIT = Ø
COUNT

1Ø

24-S 723
STORE UPPER RESULT TEST SIGN ZBIT
RS ← B BUT CCN, CCZ

STORE ASHC (25)

ØI | ØØ | 1Ø

24-T 466
STORE LOWER RESULT CLEAR NBIT TEST FOR ZERO
RSv1 ← BX, SL (BX-Ø) BUT CCZ

24-U ØØ 464
STORE LOWER RESULT CLEAR NBIT
RSv1 ← BX, SL (BX-Ø)

24-V 564
STORE LOWER RESULT SET NBIT
RSv1 ← BX SL (BX-1)

Ø | 1

24-W 467
SET ZBIT
SL (BX-1)

24-X 465
CLEAR ZBIT
SL (BX-Ø)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
KDII-EA FLOW DIAGRAMS	D	FD	KDII-EA-1	
SCALE	SHEET 24 OF 26	DIST		

DEC FORM NO. DRD 138

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SHIFT LEFT (23)

25-A 430
TEST COUNTER FOR ZERONESS
B ← RS, COUNT BUT C∅5

FETCH UPPER PART OF OPERAND.

COUNTER ZERO - NO SHIFT

25-B 456
TEST IR9 TO DETERMINE ASH/ASHC
BX ← RSV I BUT IR9

FETCH LOWER PART OF OPERAND

ASH

25-C 500
CLEAR BX TO INDICATE CBIT = ∅
BX ← ∅

STORE ASH (24)

ASHC

25-M 501
NO OPERATION GO TO 25-N
NOP

{ COUNTER IS ZERO WHICH INDICATES CBIT = ∅ WHEN ENTERING STORE ASHC }

25-D 452
TEST IR9 TO DETERMINE ASH/ASHC
BX ← RSVI BUT IR9

FETCH LOWER PART OF OPERAND

ASHC 1

∅

25-E 653
SHIFT DOUBLE OPERAND LEFT-DECREMENT COUNTER
R17 ← B, SL(B-BX-∅), COUNT BUT C∅5

AFTER LEAVING THIS LOOP THE COUNTER WILL BE ZERO AND RI7 BIT IS CONTAINS THE CARRY OUT OF THE LAST SHIFT

25-F 1 657
TEST RI7 TO DETERMINE CBIT
T ← R17 BUT CCN

25-G 1 751
SET COUNTER TO INDICATE CBIT = 1
COUNT

∅ ASH

25-H 652
ZERO BX SO THAT ZERO'S SHIFT INTO B
BX ← ∅

∅

25-I 753
SHIFT SINGLE OPERAND LEFT-DECREMENT COUNTER
R17 ← B, SL(B-BX-∅) COUNT BUT C∅5

25-J 1 757
TEST RI7 TO DETERMINE CBIT
T ← R17 BUT CCN

25-K ∅ 655
CLEAR BX TO INDICATE CBIT = ∅
BX ← ∅

25-L 1 755
SET BX TO INDICATE CBIT = 1
BX ← MINUS 1

25-N 651
STORE UPPER RESULT TEST SIGN BIT
RS ← B BUT CCN, CCZ

STORE ASHC (24)

STORE ASH (24)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
KDIIEAFLOW DIAGRAMS	D	FD	KDII-EA-1	
SCALE	SHEET 25 OF 26	DIST		

DEC FORM NO. DRD 138

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PWR UP

26-M 001
MOVE PC TO BREG
B ← PC

26-N 432
MOVE PC TO R5
R5 ← B

26-O 731
CLEAR THE PC
R7 ← Ø

26-P 733
TEST FOR ZERO FC
T ← R7 BUT ZBIT

Ø → 26-HH 720
CLEAR INSTR REG TO HALT PROCESSOR
IR ← Ø
ERR (26)

1 → 26-Q 722
PUT ALL ONES IN PC
R7 ← R7 - 1

26-R 734
TEST FOR ZERO PC
T ← R7 BUT ZBIT

1 → 26-II 726
CLEAR INSTR REG TO HALT PROCESSOR
IR ← Ø
ERR (26)

Ø → 26-S 724
MOVE ALL ONES TO BREG
B ← MINUS 1

26-T 735
EXCLUSIVE OR PC AND BREG
R7 ← R7 + B BUT ZBIT

Ø → 26-JJ 730
CLEAR INSTR REG TO HALT PROCESSOR
IR ← Ø
ERR (26)

1 → 26-U 732
MOVE 16_8 TO COUNTER
C ← 16

26-V 736
CLEAR BREG
B ← R7 + B + 1

26-W 743
PUT $(ØØØØØ1)_8$ IN BREG
B ← R7 + B + 1

26-X 737
MOVE BREG TO BXREG
BX ← B

26-Y 742
ADD R7 AND BXREG DECREMENT COUNT
R7 ← R7 + BX
COUNT BUT C05

WHEN COUNTER IS DECREMENTED 16 TIMES BRANCH OUT OF LOOP TO STEP 26-AA. OTHERWISE CONTINUE IN LOOP 26-X,Y,-Y AND 26-Z

1 → 26-AA 725
INCREMENT PC BRANCH ON COUT
R7 ← R7 + 1 BUT COUT

Ø → 26-Z 721
SHIFT BREG LEFT ZERO LEAST SIG. BREG, BIT
SL(B-Ø)

Ø → 26-KK 540
CLEAR INST REG TO HALT PROCESSOR
IR ← Ø

ERR (26)

26-LL 741
NO OPERATION
NOP
SERVICE (2)

1 → 26-BB 740
CLEAR R15
R15 ← Ø

26-CC 647
ADD TWO TO R15
R15 ← R15 + 2

26-DD 654
SET R15 EQUAL TO $(ØØØØØ5)_8$
R15 ← R15 + R15 + 1

26-EE 656
SET R15 EQUAL TO $(000013)_8$
R15 ← R15 + R15 + 1

26-FF 201
SET R15 EQUAL TO $(000026)_8$
R15 ← R15 + R15

26-GG 202
FETCH NEW PSW
BA ← R15, DATI
PSW ← UDATA
KERNAL

26-K 577
DECREMENT VECTOR ADDR
R15 ← R15 - 2

26-L 646
FETCH NEW PC
BA ← R15, DATI
B ← UDATA
KERNAL
9-F (9)

26-G 566
OUTPUT OLD PSW ENAB DOUBLE BUS ERRORS
DATO
UDATA ← B
ENAB DBE

26-H 570
DECREMENT SP ENAB STACK OVERFLOW
R6 ← R6 - 2
ENAB STOV

26-I 572
PLACE SP ADDR ON BUS ADDR LINES
BA ← R6

26-J 573
PUSH OLD PC ON STACK
DATO
UDATA ← PC
ENAB DBE

TRAP (2)

26-A 017
MOVE VECTOR TO R15
R15 ← B

TRAP 2 (17)

26-B 460
MOVE PSW TO BREG
B ← PSW

26-C 470
INCREMENT VECTOR ADDR
R15 ← R15 + 2

26-D 504
FETCH NEW PSW
BA ← R15, DATI
PSW ← UDATA
KERNAL, ENAB DBE

26-E 560
R6 ← R6 - 2
ENAB STOV
DECREMENT SP ENAB STACK OVERFLOW

26-F 562
PLACE SP ADDR ON BUS ADDR LINES
BA ← P6

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
KDII-EA FLOW DIAGRAMS	D	FD	KDII-EA-1	
SCALE	SHEET 26 OF 26	DIST.		

DEC FORM NO. SMD 138

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COMPONENT SIDE VIEW

88 1 5-2 89

NOTES:

CHG	CHANGE NO	REV
P.C.	M8266-5	D
REVISED		
DRAWN	M. SULLIVAN	
	M8266-TMOD4	E
	E. CROCKER	

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

SIGNATURES	DATE
DRN. L GIAMMARINO	8-18-77
CHK'D. L GIAMMARINO	8-18-77
ENG. M SULLIVAN	19DEC77
PROJ. ENG. D BARRY	19DEC77
PROG. D BARRY	19DEC77
SCALE 2-1	
SHT. 1 OF 2	
NEXT HIGHER ASSY. B-DD-M8266-0	

digital

TITLE
KDIIE A CONTROL

SIZE	CODE	NUMBER	REV
D	UA	M8266-0-0	E

1 MS#116.441

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REWORK INSTRUCTIONS:

WIRE ADDS SIDE 1:

5-2 FROM R63 AT C117 END TO PTH LOCATED ABOVE E60-3

REVISION HISTORY

DATE	ECO NUMBER	REV.

TITLE: KDIIE-A CONTROL

SIZE	CODE	NUMBER	REV.
D	UA	M8266-0-0	E

SCALE 2:1 SHEET 2 OF 2

DOCUMENT NUMBER: D UA M8266-0-0 REV. E

DRD 137A

TW

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
1	1	D-MD-5012434-0-0	5012434-00	M8266	1	
2	2		1000016-00	100.0 MMF 100V 5%200PPM MICA	3	C58,C67,C68
3	3		1000024-00	470.0 MMF 100V 5%200PPM MICA	6	C56,C57,C65,C66,C71,C116
4	4		1000055-00	2200.0 MMF 250V 20% Y5S DISC	2	C69,C115
5	5		1001476-00	110 MFD 35V 10% S.TANT	1	C60
6	6		1001610-01	.01 MFD50/100V +80-20% DISC	93	C1-C43,C45-C54,C63,C64,C73-C110
7	7		1004812-00	15 MFD 20V 10% S.TANT	1	C59
8	8		1005306-00	6.8MFD 35V 10% S.TANT	6	C72,C111-C114,C61
9	9		1009964-00	.68 MFD 35V 10% S.TANT	2	C44,C55
10	10		1000021-00	220.0 MMF 100V 5%200PPM MICA	3	C62,C70,C117
11	11		1100114-00	D 664 QS\75PCB PIV= 25V SP	4	D1-D4
12	12		1300202-00	47.0 .25 W 5.0 % CC	6	R3,R4,R7,R11,R21,R63
13	13		1300250-00	150.0 .25 W 5.0 % CC	5	R10,R17,R18,R52,R1
14	14		1300271-00	220.0 .25 W 5.0 % CC	1	R62
15	15		1300309-00	390.0 .25 W 5.0 % CC	12	R40-R48,R60,R54,R61
16	16		1300316-00	470.0 .25 W 5.0 % CC	20	R26-R31,R33-R39,R49-R51,R53,R56,
					CONT	R55,R9
17	17		1300365-00	1.0 K .25 W 5.0 % CC	5	R12,R32,R20,R59,R58
18	18		1300479-00	10.0 K .25 W 5.0 % CC	1	R24
19	19		1302391-00	30.0 K .25 W 5.0 % CC	5	R8,R19,R23,R25,R5
20	20		1311422-00	178.0 .25 W 1.0 % RN55D-F10	5	R13-R16,R22
21	21		1301401-00	750.0 .25 W 5.0 % CC	1	R6
22	22		1213506-00	HEADER 24POS RT ANGLE W/3 SI	2	J1,J2
23	23		1905547-00	7474 FF-D DUAL,EDGE TRIGG	5	E5,E12,E31,E32,E34
24	24		1905575-00	7400 NAND GATE-QUAD 2IN	5	E3,E15,E18,E28,E86
25	25		1905587-00	DEC 7473 FF-JK DUAL,MASTER SL	2	E24,E45
26	26		1909004-00	DEC 7402 NOR GATE-QUAD 2IN	3	E22,E23,E43
27	27		1909705-00	DEC 8881 NAND GATE-QUAD 2IN O	2	E8,E77
28	28		1909713-00	DEC 8815 NOR GATE-DUAL 4IN	2	E4,E30
29	29		1910533-00	74S03 NAND GATE-QUAD 2IN,O	5	E41,E64,E65,E76,E94

REVISION HISTORY

ENG	ECO NUMBER	REV
PG	00005	D
BG	TW006	E

BASIC PART NO: M8266

SECTION A OF A

SECTION.VARIATION INDEX

[A] 00
[B]
[C]
[D]
[E]
[F]
[H]
[J]
[K]
[L]
[M]
[N]

DRN: R.BARILONE DATE: 24-MAR-78

CHK'D: L.GIAMMARINO DATE: 24-MAR-78

DES.ENG: M.SULLIVAN DATE: 24-MAR-78

RESP.ENG.: M.SULLAVAN DATE: 24-MAR-78

MFG.ENG.: B.KING DATE: 24-MAR-78

ASSEMBLY NUMBER: D-UA-M8266-0-0

TOP DOCUMENT NUMBER:

DIGITAL

TITLE PARTS LIST

KD11E-A CONTROL

DOCUMENT NUMBER

SIZE	CODE	NUMBER	REV
K	PL	M8266-0-DBP	E

FILE NAME: Z1277E.PLS

EDIT # 11

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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
30	30		1909930-00	7405 INVERTER GATE-HEX 1I	2	E91,E101
31	31		1910018-00	DEC 74193 COUNTER,SYNCHR. UP/D	2	E78,E79
32	32		1911675-00	74S138 DECODER/DEMUX 3-8 LIN	1	E89
33	33		1910091-00	DEC 7437 AND GATE-QUAD 2IN,BU	1	E81
34	34		1910155-00	DEC 7408 AND GATE,POS.QUAD 2I	2	E11,E50
35	35		1910436-00	DEC 74123 ONE SHOT-DUAL,RETRIG	3	E16,E7,E14
36	36		1910532-00	74S00 NAND GATE-QUAD 2IN	6	E25,E37,E47,E84,E6,E35
37	37		1910534-00	74S04 INVERTER GATE-HEX 1I	2	E111,E112
38	38		1910539-00	74S20 NAND GATE-DUAL 4INPU	2	E57,E58
39	39		1910547-00	74S153 MUX 1 OF 4 (DUAL)	2	E46,E36
40	40		1910548-00	74S157 MUX 1 OF 2 (QUAD)	2	E10,E39
41	41		1910550-00	74S174 FF-D HEX	10	E19,E38,E66,E93,E71,E88,E90,E92,
					CONT	E96,E56
42	42		1910651-00	*** THIS ITEM IS NOT USED ***	-	
43	43		1910878-00	7427 NOR GATE-TRIPLE 3IN	1	E75
44	44		1910957-00	74S175 FF-D QUAD COMMON CLO	4	E48,E55,E67,E13
45	45		1911116-00	DEC 8837 RECEIVER,BUS,HEX,UN	2	E1,E17
46	46		1911324-00	7414 INVERTER,HEX 1IN SCH	1	E21
47	47		1911469-00	DEC 8640 RECEIVER,BUS,QUAD,U	1	E9
48	48		1911579-00	8641 TRANSCEIVER,BUS,QUA	1	E27
49	49		1911637-00	74132 NAND GATE-QUAD 2 IN	2	E2,E42
50	50		1912388-00	74S02 NOR GATE-QUAD 2IN,PO	3	E20,E73,E95
51	51		1912746-00	DEC 74S37 NAND GATE-QUAD 2IN	1	E26
52	52		1910544-00	74S74 FF-D DUAL,EDGE TRIGG	2	E33,E49
53	53		1910536-00	74S10 NAND GATE-TRIPLE 3IN	2	E40,E85
54	54		1913340-00	74S32 OR GATE-QUAD 2IN	1	E44
55	55		23106A1-00	A1-07	1	E51
56	56		23160A2-00	A2-05	1	E29
57	57		23175A2-00	A2-02,A2-04	1	E53
58	58		23162A2-00	A2-05	1	E54
59	59		23174A2-00	A2-02,A2-04	1	E59
60	60		23173A2-00	A2-02,A2-04	1	E60
61	61		23161A2-00	A2-05	1	E61
62	62		23170A2-00	A2-02,A2-04	1	E62
63	63		23176A2-00	A2-02,A2-04	1	E63
64	64		23014A9-00	A9-01	1	E68
65	65		23172A2-00	A2-02,A2-04	1	E69
66	66		23349A9-00	A9-04	1	E70
67	67		23A22A2-00	A2-02,A2-04	1	E72
68	68		23110A1-00	A1-03,A1-05	1	E74
69	69		23163A2-00	A2-05	1	E80
70	70		23108A1-00	A1-07	1	E82
71	71		23107A1-00	A1-07	1	E83
72	72		2310 9A1-00	A1-07	1	E87
73	73		23022F1-00	F1-01	1	E97
74	74		23023F1-00	F1-01	1	E98
75	75		23021F1-00	F1-01	1	E99
76	76		23024F1-00	F1-01	1	E100

D	I	G	I	T	A	L	TITLE	SECTION	SIZE	CODE	DOCUMENT NUMBER	REV
							KD11E-A CONTROL	A OF A	K	PL	M8266-0-D8P	E

P A R T S L I S T

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
77	77		23011F1-00	F1-01	1	E103
78	78		23025F1-00	F1-01	1	E104
79	79		23027F1-00	F1-01	1	E105
80	80		23020F1-00	F1-01	1	E106
81	81		23019F1-00	F1-01	1	E107
82	82		23018F1-00	F1-01	1	E108
83	83		23017F1-00	F1-01	1	E109
84	84		23016F1-00	F1-01	1	E110
85	85		23177A1-00	A1-07	1	E102
86	86		23013F1-00	F1-01	1	E52
87	87		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	1	W1
88	88		9006732-00	EYELET, ROLLED FLANGE, .121 OD X	12	
89	89		1216988-02	HANDLE,MODULE,HEX TWO EJECTORS	1	
90	90		1303114-00	1.0 K .25 W 1.0 % RN55D-F10	1	R2
91	91		9105740-55	WIRE(WRAP)30AWG UL1423	A/R	
92	92		9009157-00	ADH,LIQ.RM.TEMP CURING COLORLESS	A/R	

93 NOTE: 1001610-01 MAY BE SUBSTITUED BY 1001610-00.

| | | |

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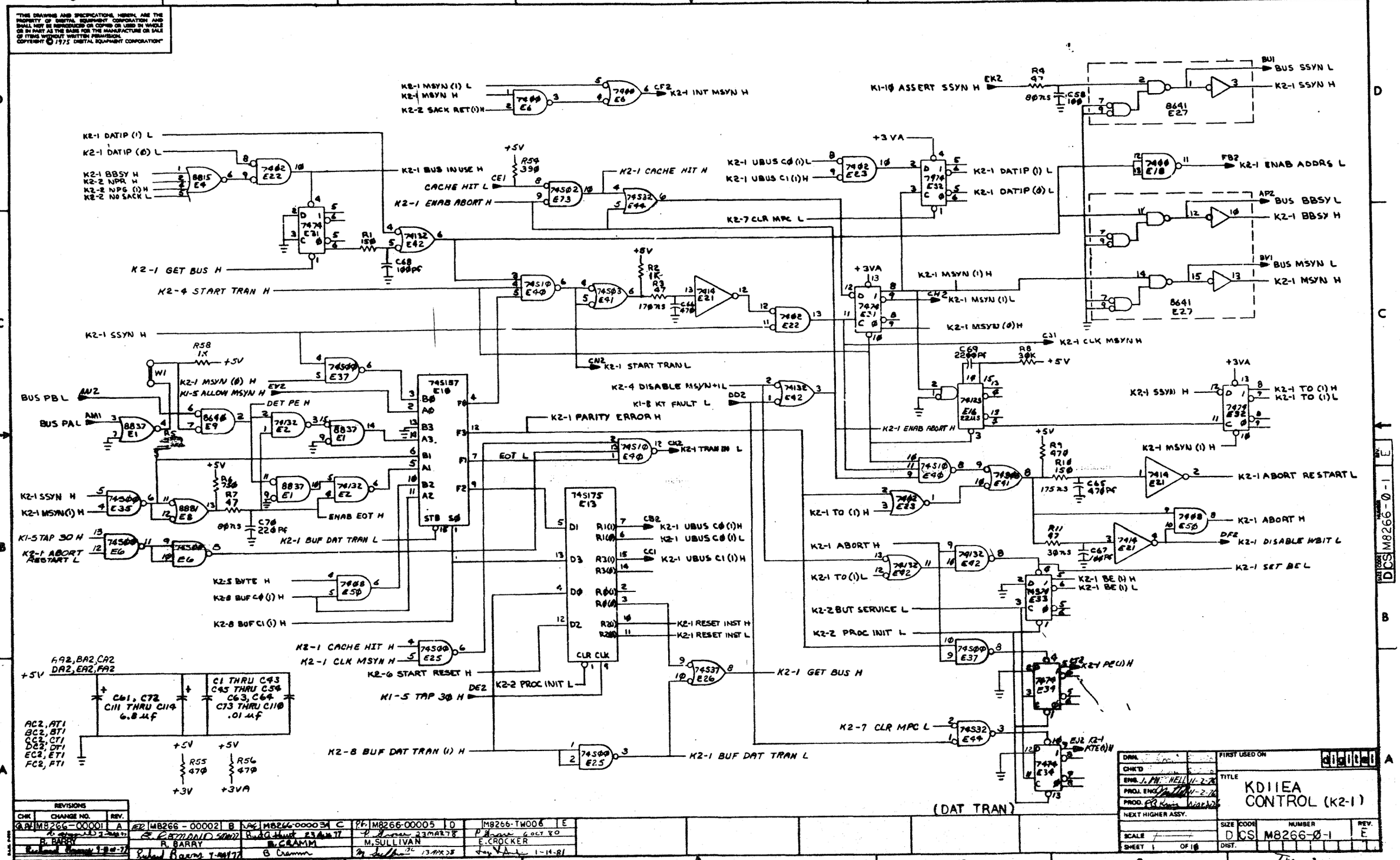

REVISIONS										
CHK	CHANGE NO.	REV.								
GAN	M8266-00001	A	ENG	M8266-00002	B	MFG	M8266-00003	C	PI	M8266-00005	D	M8266-TW006	E
B. BARRY			E. CERMANO			R. HUNT			P. Brown			P. Brown	
B. BARRY			R. BARRY			B. CRAMM			M. SULLIVAN			E. CROCKER	
Richard Barry 7-20-77			Richard Barry 7-20-77			B Cramm			M Sullivan			Tony Vaz	

DRWN		FIRST USED ON	digital
CHK'D			
ENG.	J. MITCHELL		
PROJ. ENG.		TITLE	KD11EA CONTROL (K2-1)
PROD.			
NEXT HIGHER ASSY.			
SCALE		SIZE D	CODE CS
SHEET 1	OF 10	DIST.	NUMBER M8266-0-1 REV. E

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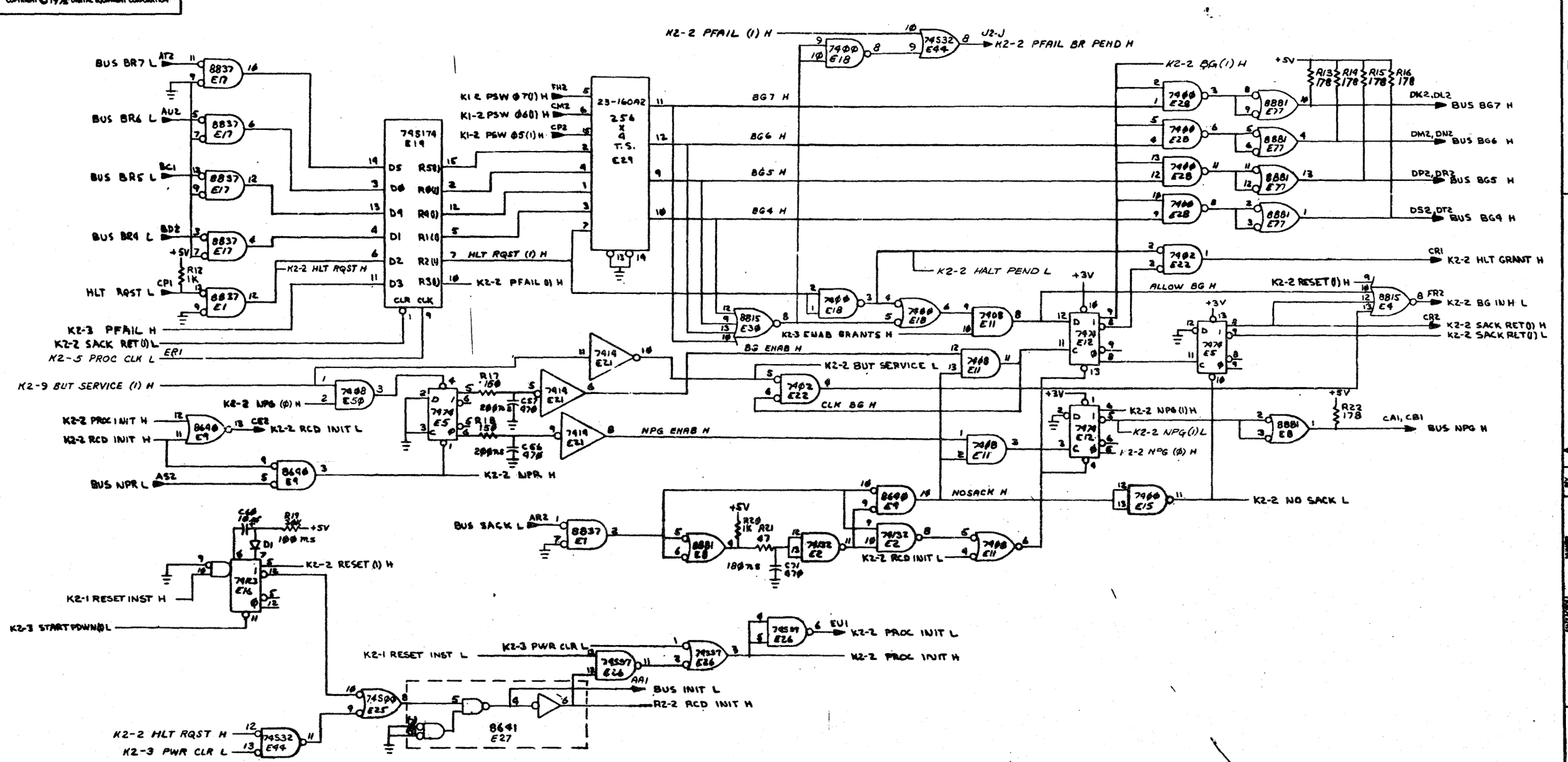

(PRIORIDY ARB)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
KDIIEA CONTROL (K2-2)	D	CS	M8266-Ø-1	E
SCALE —	SHEET 2 OF 10	DIST.		

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AC POWER
+5 VOLTS
BUS DC LO L
BUS AC LO L

BUS AC LO L BF1 — 8837 E17
BUS DC LO L BF2 — 8837 E17
C59 15 uf, R23 30K, +5V, 150 m.s, D2
C44 .68 uf, R24 10K, +5V, D3 2.2 m.s
C55 .68 uf, R25 30K, +5V, D4 6.6 m.s
+3V
K1-5 PROC CLK H FP2
K2-3 START PDWN (I) L
K2-3 PFAIL H
K2-3 PWR CLR L
K2-7 MPC ØØ L
K1-2 TBIT (I) H BF1
K2-6 ENAB TBIT H
K1-5 PROC CLK L FP2
K2-3 USER MODE H
K2-4 SPA Ø2 H
K2-6 SPA Ø1 H
K2-3 R6+7 L
K2-4 SPA ØØ H
K2-7 ENAB STOV L
K1-11 B-18 = Ø L
K2-9 BUT SERVICE (I) H
K1-5 PROC CLK H FP2
K2-3 STOV SERV H
K2-2 PROC INIT L
FP7 SEVICE BR PFAIL L J2-D
+5V, R61 390
K2-1 BE (I) H
K2-1 PE (I) H CT2 4
K2-1 KTE (I) H EJ2 3
K2-2 PFAIL (I) H
K2-6 IR CODE Ø2 L
K2-6 IR CODE Ø1 L
K2-6 IR CODE ØØ L
K2-2 BUT SERVICE L
23-Ø13F1 1024 x 4 ES2
+5V, R26 470, R27 470, R28 470, R29 470
23-106A1 32 x 8 T.S. ES1
K2-3 PFAIL SERV H
K2-3 STOV SERV H
CU1 K2-3 C4 H
CV1 K2-3 C3 H
DB2 K2-3 C2 H
K2-3 ENAB GRANTS H
K2-9 BUT SERVICE (I) H
K2-1 SET BE L
K2-8 ENAB DBE L
K2-3 DBE H
K1-5 PROC CLK H FP2
K2-1 BE (I) H
K1-9 PSW 15 (I) L DJ1
K2-3 USER MODE H
K2-2 PROC INIT L
K2-9 BUT SERVICE (I) H
K2-2 PROC INIT H
R52 150 Ω, 40 m.s, C62 220 pf
K2-3 SERV SR H
K2-3 SERV IR (I) L
K2-9 BUT SERVICE (I) H
BUS INTR L AB1 — 8837 E1
CV2 K2-3 INTR H
K2-7 MPC ØØ L
DK1 K2-3 INT VECTOR L

(PFAIL/AUTO REST BUT SERV)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
KDIIEA CONTROL (K2-3)	D	CS	M8266-Ø-1	E
SCALE —	SHEET 3 OF 10	DIST.		

M8266-Ø-1 D CS E

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K1-8 MODE Ø1 H
K2-10 ROM SPA Ø2(1) H
K2-10 ROM SPA Ø1(1) H
K2-10 ROM SPA ØØ(1) L
K2-10 ROM SPA Ø3(0) L
74S20 E58
74S00 E97
K2-5 IR Ø8 (1) H
K2-5 IR Ø7 (1) H
K2-5 IR Ø6(1) L
74S20 E57
74S00 E97
K2-5 IR Ø2 (1) H
K2-5 IR Ø1 (1) H
K2-5 IR ØØ (1) L
74S20 E57
74S00 E97

USER MODE SELECTS R16
KERNAL MODE SELECTS R6

K1-6 PBA Ø3 H DMI
K2-10 ROM SPA Ø2 (1) H
K2-5 IR Ø8 (1) H
K2-5 IR Ø2(1) H
STBI STBØ
DØ AØ BØ CØ SPAM FØ
7 CU2 K2-9 SPA Ø3 H
74S153 E96
DI AI BI CI F1
9 CSI K2-9 SPA Ø2 H
S1 SØ
2 14

K1-6 PBA Ø1 H CHI
K2-10 ROM SPA Ø1 (1) H
K2-5 IR Ø7 (1) H
K2-5 IR Ø1 (1) H
STBI STBØ
DØ AØ BØ CØ SPAM FØ
7 CN1 K2-9 SPA Ø1 H
74S153 E36
DI AI BI CI F1
9 CD2 K2-9 SPA ØØ H
K1-6 PBA ØØ H CL2
K2-10 ROM SPA ØØ (L) H
K2-5 IR Ø6 (1) L
K2-9 FORE RS+1 (1) L
74S08 E97
K2-5 IR Ø Ø (1) H
S1 SØ
2 19

S1	SØ	F
L	L	ROM
L	H	RS
H	L	RD
H	H	B.I

74S157 E39
K2-9 SPA DST SEL1(1) H
K2-9 SPA SRC SEL 1(1) H
K2-9 SPA DST SEL Ø(1) H
K2-9 SPA SRC SEL ØØ) H
K2-3 R6+7 L
K2-8 BUF DAT TRAN (1) H
B3 A3 B0 A0 B2 A2 BJ AI
F3 F0 F2 F1
STB SØ
K1-5 TAP 30 H DE2
R63 47
C117 220 PF

K2-9 SPA DST SEL Ø(1) H
K2-9 SPA DST SEL 1 (1) H
74S08 E37
74S05 E91
+5V
RS1 470
FV2 K2-4 SP WRITE L

K2-8 BUF DAT TRAN(1) H
74S02 E95
K2-8 DISAB MSYN L
74S02 E20
74S04 E112
EM1 K2-4 DISABLE MSYN +1 L

K2-4 START TRAN H

(SPA MUX)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
KDIIEA CONTROL (K2-4)	D	CS	M8266-Ø-1	E
SCALE —H— SHEET 4 OF 10	DIST.			

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K2-3 SERV IR(1) L
KI-4 SS MUX 15 H
CD1
74S74 E38
K2-5 IR 15 Ø) H

74S02 E43

74S174 E66
KI-4 SS MUX 14 H — EP2 — K2-5 IR 14 Ø) H
KI-4 SS MUX 13 H — DV2 — K2-5 IR 13 (), H
KI-4 SS MUX 12 H — EB2 — K2-5 IR 12 (1) H
KI-4 SS MUX 1Ø H — DV1 — K2-5 IR 1Ø (1) H
KI-4 SS MUX Ø9 H — EM2 — K2-5 IR Ø9 (1) H
CLR CLK

K2-3 DBE H
K2-3 SERV IR H
74S02 E73

74S174 E56
KI-2 SS MUX Ø7 H — DJ2 — K2-5 IR Ø7 (1) H
KI-2 SS MUX Ø5 H — CE1 — K2-5 IR Ø5 Ø) H
KI-2 SS MUX Ø4 H — DH2 — K2-5 IR Ø4 Ø) H
KI-2 SS MUX Ø3 H — DE1 — K2-5 IR Ø3 (1) H
KI-2 SS MUX Ø2 H — EB1 — K2-5 IR Ø2 (1) H
KI-2 SS MUX Ø1 H — DH1 — K2-5 IR Ø1 Ø) H
CLR CLK

74S175 E67
KI-2 SS MUX 11 H — EA1 — K2-5 IR 11 Ø) H, K2-5 IR 11 (1) L
KI-2 SS MUX Ø8 H — EN2 — K2-5 IR Ø8 (1) H, K2-5 IR Ø8 Ø) L N/C
KI-2 SS MUX Ø6 H — CE1 — K2-5 IR Ø6 (1) H, K2-5 IR Ø6 (1) L
KI-2 SS MUX ØØ H — FF1 — K2-5 IR ØØ (1) H, K2-5 IR ØØ (1) L
CLR CLK

K2-7 LOAD IR L
KI-5 PROC CLK L
ERI
74S02 E73
ED2 — K2-5 LOAD IR H J2-5

K2-6 IR DECODE (1) L
74S03 E47
+5V
R53 470Ω
K2-5 BYTE H

512 x 4 E68 23-Ø14A9
K2-5 IR 15 (1) H
K2-5 IR 14 (1) H
K2-5 IR 13 (1) H
K2-5 IR 12 (1) H
K2-5 IR 1Ø (1) H
K2-5 IR Ø9 (1) H
K2-5 IR Ø8 (1) H
K2-5 IR Ø7 (1) H
K2-5 IR Ø6 (1) H
EH2 — K2-5 BYTE L
EC1 — K2-5 CC CODE Ø2 H
EV2 — K2-5 CC CODE Ø1 H
FB1 — K2-5 CC CODE ØØ H

23-1Ø7A1 32 x 8 T.S. DOP E83
K2-5 IR 15 (1) H
K2-5 IR 14 (1) H
K2-5 IR 13 (1) H
K2-5 IR 12 (1) H
K2-8 FUNC CODE Ø3 H
K2-8 FUNC CODE Ø2 H
K2-8 FUNC CODE Ø1 H
K2-8 FUNC CODE ØØ H

K2-8 AUX SET UP H
K2-6 IR12-14 = Ø L
74S00 E84

23-1Ø1A2 SOP 256 x 4 T.S. E61
K2-5 IR 1Ø (1) H
K2-5 IR Ø9 (1) H
K2-5 IR Ø8 (1) H
K2-5 IR Ø7 (1) H
K2-5 IR Ø6 (1) H
KI-1 CBIT (1) H — DU2
KI-1 NBIT (1) H — DL1
K2-5 IR 15 (1) H

K2-8 AUX SET UP H
K2-5 IR 14 (1) H
K2-5 IR 13 (1) H
K2-5 IR 12 (1) H
74S27 E75
74S00 E84
K2-5 IR 12-14 = Ø H

23-17ØA2 ROT 256 x 4 O.C. E62
K2-5 IR 1Ø (1) H
K2-5 IR Ø9 (1) H
K2-5 IR Ø8 (1) H
K2-5 IR Ø7 (1) H
K2-5 IR Ø6 (1) H
KI-1 BREG ØØ (1) H — DNI
KI-1 CBIT (1) H — DU2
KI-1Ø CC N H — FTE
R30 470 R31 470 +5V
K2-8 B MODE Ø1 L
K2-8 B MODE ØØ L
EF2 — K2-5 SERIAL SHIFT H
FRI — K2-5 ROT CBIT (1) H
74S175 E55 — ERI9
KI-5 PROC CLK L
K2-2 PROC INIT L

(IR, AUX CNTRL, CC CODE)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
KDIIEA CONTROL (K2-5)	D	CS	M8266-Ø-1	E
SCALE —	SHEET 5 OF 10	DIST.		

DEC FORM NO. BRD 138

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23-11ØA1 DOP 32 X 8 OC E74

R33 470Ω +5V

K2-6 DEST L
K2-6 IR CODE ØØ
K2-7 MPC Ø7 L
K2-7 MPC Ø6 L
K2-7 MPC Ø5 L
K2-7 MPC Ø4 L
K2-7 MPC Ø3 L

R32 1K +5V

K2-7 LOAD IRL → 74SØ3 E65
K2-6 IR DECODE (1) H
K2-6 IR DECODE(1) L
K1-5 PROC CLK → 74S175 E55
K2-2 PROC INIT L
K2-5 IR 14 (1) H
K2-5 IR 13 (1) H
K2-5 IR 12 (1) H → 74S2Ø E58

K2-5 IR 11 (1) H
K2-5 IR 1Ø(1) H
K2-5 IR Ø9(1) H
K2-5 IR Ø8(1) H
K2-5 IR15(1) H

+5V R59 1K
FP11-A ATTACHED L
J2-C

23-349A3 DOP 512 X 4 OC E7Ø

K2-5 IR 14 (1) H
K2-5 IR 13 (1) H
K2-5 IR 12 (1) H
K2-7 BUT DEST L
K2-6 IR DECODE(1) H

K2-5 IR 11 (1) H
K2-5 IR 1Ø(1) H
K2-5 IR Ø9(1) H → 7427 E75 → K2-6 SMØ H

K2-5 IR Ø5(1) H
K2-5 IR Ø4 (1) H
K2-5 IR Ø3 (1) H → 7427 E75 → K2-6 DMØ H

23-172A2 DOP 256 X 4 OC E69

R34 470Ω +5V → K2-6 MOV L
R35 470Ω +5V → K2-6 SRC H

23-173A2 256 X 4 OC E6Ø

K2-5 IR 11 (1) H
K2-5 IR 1Ø(1) H
K2-5 IR Ø9(1) H
K2-5 IR Ø8(1) H
K2-5 IR Ø7(1) H
K2-5 IR Ø6(1) H

K2-5 IR DECODE(1) L

23-174A2 256 X 4 OC E59

R36 470Ω +5V → K2-6 IR CODE Ø2 L
R37 470Ω +5V → K2-6 IR CODE Ø1 L
R38 470Ω +5V → K2-6 IR CODE ØØ L
R39 470Ω +5V

K2-5 IR12-14=Ø H → 74SØØ E84 → K2-6 IR12-14=Ø L

K2-6 IR DECODE(1)H
K2-6 DEST L
K2-7 BUT DEST L → 74S1Ø E85

K2-5 IR Ø5(1) H
K2-5 IR Ø4 (1) H
K2-5 IR Ø3 (1) H
K2-5 IR 11 (1) H
K2-5 IR 1Ø (1) H
K2-5 IR Ø9 (1) H
K2-6 IR DECODE (1 L → 74SØ3 E65, 74SØ3 E65, 74SØ3 E65, 74SØ3 E64, 74SØ3 E64, 74SØ3 E64

K1-1 N BIT (1) H
K1-1 Z BIT (1) H
K1-1 V BIT (1) H
K1-1 C BIT (1) H
K2-5 IR 15 (1) H
K2-5 IR 1Ø(1) H
K2-5 IR Ø9(1) H
K2-5 IR Ø8(1) H → BRANCH 256 X 4 O.C. E72 23-A22A2

K2-5 IR 12-14=Ø H → 74SØØ E84 → K2-5 IR 11 (1) L → K2-6 IR DECODE(1)L

23-162A2 256 X 4 T.S. E54

K1-4 PSW 15 (1) L DJI
K2-5 IR Ø7 (1) H
K2-6 DM ØH
K2-5 IR Ø2 (1) H
K2-5 IR Ø1 (1) H
K2-5 IR ØØ(1) H
K2-5 IR Ø6 (1) H

K2-6 START RESET H
K2-6 ENAB TBIT H (RTT H)
DCI K2-6 DISABLE LOAD PSW H

K2-5 IR12-14 = Ø H
K2-6 SM Ø H → 74S1Ø E85
K2-5 IR Ø8 (1) H
K2-5 IR 15 (1) H → 74SØ2 E73

23-175A2 256 X 4 O.C. E53

K2-5 IR Ø7 (1) H
K2-5 IR Ø5(1) H
K2-3 USER MODE H
K2-5 IR Ø4 (1) H
K2-5 IR Ø3 (1) H

CPI HALT RQST L
K2-6 IR CODE Ø2 L
K2-6 IR CODE Ø1 L
K2-6 IR CODE ØØ L

K2-5 IR Ø6 (1) H

23-176A2 256 X 4 O.C. E63

K2-7 MPC Ø2 L
K2-7 MPC Ø1 L
K2-7 MPC ØØ L

(IR DECODE)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
KDIIEA CONTROL (K2-6)	D	DCS	M8266-Ø-1	E
SCALE	SHEET 6 OF 10	DIST.		

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+5V
RG0 390
74S04 E112
K2-7 MPC Ø9 H
J2-1
K2-7

K2-7 MPC Ø9 H
K2-7 MPC Ø8 H
K2-7 MPC Ø7 H
K2-7 MPC Ø6 H
K2-7 MPC Ø5 H
K2-7 MPC Ø4 H
K2-7 MPC Ø3 H
K2-7 MPC Ø2 H
K2-7 MPC Ø1 H
K2-7 MPC ØØ H

23-016F1 4 E110
23-017F1 4 E109
23-018F1 4 E108

74S174 E92
74S174 E90
D2 D5 D4 D3 D0 D1 R2() R5() R4() R3() R0() R1() CLR CLK

74S05 E101
74S05 E91
R40 390
R41 390
R42 390
R43 390
R49 390
R45 390
R46 390
R47 390
R48 390

K2-7 MPC Ø8 L
K2-7 MPC Ø7 L
K2-7 MPC Ø6 L
K2-7 MPC Ø5 L
K2-7 MPC Ø4 L
K2-7 MPC Ø3 L
K2-7 MPC Ø2 L
K2-7 MPC Ø1 L
K2-7 MPC ØØ L

74S04 E111
74S04 E112

K2-7 MPC Ø8 H
K2-7 MPC Ø7 H
K2-7 MPC Ø6 H
K2-7 MPC Ø5 H
K2-7 MPC Ø4 H
K2-7 MPC Ø3 H
K2-7 MPC Ø2 H
K2-7 MPC Ø1 H
K2-7 MPC ØØ H

74S138 E89
F0 F1 F2 F3 F4 F5 F6 F7
D2 D1 D0

J2-F
F12
F11
FM1

K2-7 LOAD IR L
K2-7 LOAD PSW L
K2-7 LOAD CC L
K2-7 BUT DEST L
K2-7 ENAB STOV L
K2-7 LOAD COUNT L
K2-7 CLK COUNT L

+3VA

K2-2 PROC INIT H
K2-1 ABORT H
74Ø2 E93
K2-7 CLR MPC L
K1-5 PROC CLK L
ERI

J1
K2-7 MPC Ø4 L
K2-7 MPC Ø1 L
K2-7 MPC Ø2 L
K2-7 MPC Ø3 L
MAN CLK ENAB L
K2-7 MPC ØØ L
K2-7 MPC Ø5 L
K2-7 MPC Ø6 L
K2-7 MPC Ø7 L
MAN CLK L
FM1
FP1

J2
K2-7 MPC Ø8 L
FP11-A ATTACHED L
K2-7 MPC Ø9 L
SERVICE BR PFAIL L
K2-7 LOAD IR L
K2-2 PFAIL BR PEND H

(MPC BUT FIELD)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
KDIIEA. CONTROL (K2-7)	D	CS	M8266-Ø-1	E
SCALE	SHEET 7 OF 10	DIST.		

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K2-7 MPC Ø9 H
K2-7 MPC Ø8 H
K2-7 MPC Ø7 H
K2-7 MPC Ø6 H
K2-7 MPC Ø5 H
K2-7 MPC Ø4 H
K2-7 MPC Ø3 H
K2-7 MPC Ø2 H
K2-7 MPC Ø1 H
K2-7 MPC ØØ H

23-019F1 E107
23-020F1 E106
23-021F1 E99
23-022F1 E97

74S174 E96
74S174 E71
74S174 E88

K2-8 BUF DAT TRAN (1) H
K2-8 BUF CI (1) H
K2-8 BUF CØ (1) H
FS2 K2-8 ENAB MAINT(1) H
PDI K2-8 LOAD BA (1) H
FV1 K2-8 LONG CYCLE (1) L

K2-8 AUX SETUP H
74S175 E55
K2-8 AUX CONTROL (1) H
DDI K2-8 AUX CONTROL (1) L

K2-8 FUNC CODE Ø3 H
K2-8 FUNC CODE Ø2 H
K2-8 FUNC CODE Ø1 H
K2-8 FUNC CODE ØØ H

23-188A1 E82
23-189A1 E87

7437 E81
ER2 K2-8 ALU S3 H
EF1 K2-8 ALU S2 H
EH1 K2-8 ALU S1 H
FB1 K2-8 ALU SØ H
FJ1 K2-8 ALU MODE H
FE2 K2-8 ALU CIN L
FM2 K2-8 BLEG Ø1 H
FC1 K2-8 BLEG ØØ H

74Ø5 E91
R49 47Ø +5V FU2 K2-8 B MODE Ø1 L
R5Ø 47Ø +5V FL2 K2-8 B MODE ØØ L

FL1 K2-8 BX MODE Ø1 L
FS1 K2-8 BX MODE ØØ L
FU1 K2-8 SHIFT MUX Ø1 L
FX2 K2-8 SHIFT MUX ØØ L
FV1 K2-8 ENAB OVK L
K2-8 ENAB DBE L

K2-9 SS Ø1 H
K2-9 SS ØØ H

K2-2 PROC INIT L
K1-5 PROC CLK L
ER1

K1-6 VBAØØ (1) H
K2-8 BUF DAT TRAN(1)H
ET2
74ØØ E86
74S04 E112

23-163A2 E80
K2-8 BUF DAT TRAN(1)H
K2-8 AUX CONTROL(1) H
K2-5 BYTE H
K2-6 MOV L
ES2 K2-8 SWAP H
ES1 K2-8 SEX H
K2-8 DISAB MSYN L
EP1 K2-8 DISABLE UPPER BYTE WRITE H

(MICRO STORE)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
KDIIEA CONTROL (K2-8)	D	CS	M8266-Ø-1	E
SCALE	SHEET 8 OF 10	DIST.		

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K2-9 SS Ø1 H
K2-9 SS ØØ H

K2-7 MPC Ø9 H
K2-7 MPC Ø8 H
K2-7 MPC Ø7 H
K2-7 MPC Ø6 H
K2-7 MPC Ø5 H
K2-7 MPC Ø4 H
K2-7 MPC Ø3 H
K2-7 MPC Ø2 H
K2-7 MPC Ø1 H
K2-7 MPC ØØ H

23-023F1 E98
23-024F1 E105
23-025F1 E107
23-011F1 E103

74S174 E93
74S174 E38

FWI K2-9 AMUX S1 (1) L
FD2 K2-9 AMUX SØ (1) L

23-197A1 32 X 8 T.S. E102
+3VA

K1-4 ALU COUT H EVI 74SØ3 E94 → K2-7 MPC Ø7 L
K1-1Ø CC N H FT2 74SØ3 E94 → K2-7 MPC Ø6 L
K1-1 BX REG Ø1 (1) H FAI 74SØ3 E96 → K2-7 MPC Ø5 L
K1-1 BX REG ØØ (1) H FKI 74SØ3 E94 → K2-7 MPC Ø4 L
K1-4 SP15 (1) H FEI 74SØ3 E76 → K2-7 MPC Ø3 L
K2-Ø COUNT Ø5 (1) H 74SØ3 E76 → K2-7 MPC Ø2 L
K1-1Ø CC Z H ELI 74SØ3 E76 → K2-7 MPC Ø1 L
K2-5 IR Ø9 (1) H 74SØ3 E76 → K2-7 MPC ØØ L

+3VA
74S37 E49 → K2-9 SPA SRC SEL 1 (1) H
74S37 E99 → K2-9 SPA SRC SEL Ø (1) H

74S174 E38
K2-9 SPA DST SEL 1 (1) H
K2-9 SPA DST SEL Ø (1) H
K2-9 FORCE RS+1 (1) L
CS2 K2-9 PREVIOUS MODE (1) L
K2-9 BUT SERVICE (1) H
CLI K2-9 FORCE KERNEL (1) H

K2-2 PROC INIT L
K1-3 PROC CLK L ERI

(MICRO CODE)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
KDIIEA CONTROL (K2-9)	D	CS	M8266-Ø-1	E
SCALE —	SHEET 9 OF 10	DIST.		

DEC FORM NO. 2MD 128

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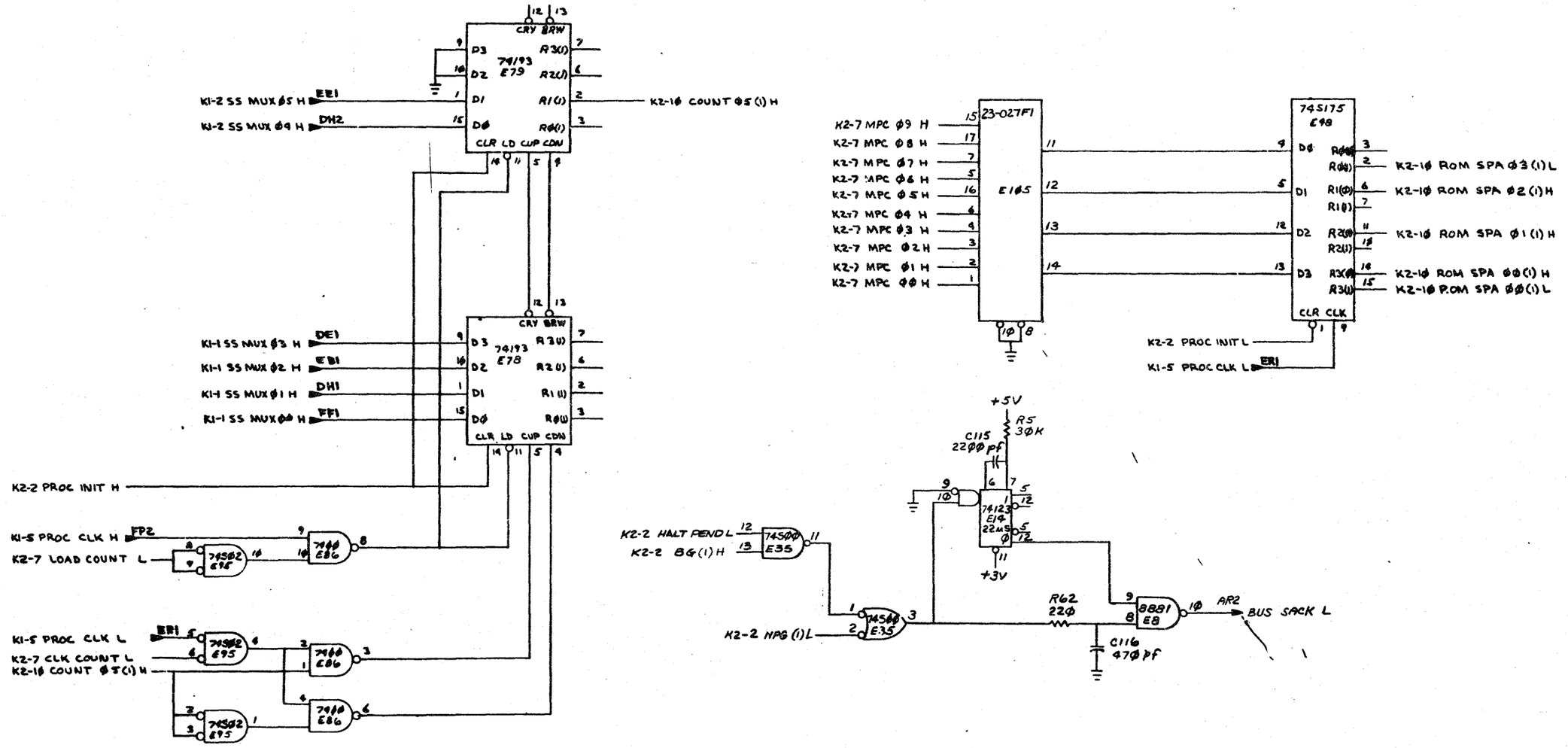

(ROM SPA COUNTER)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
KDIIEA CONTROL (K2-1Ø)	D	CS	M8266-Ø-1	E
SCALE	SHEET 1Ø OF 1Ø	DIST.		

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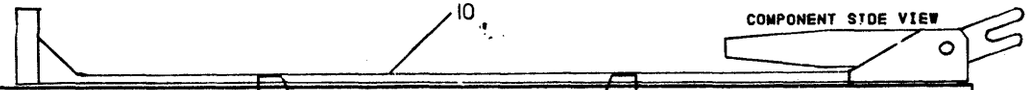
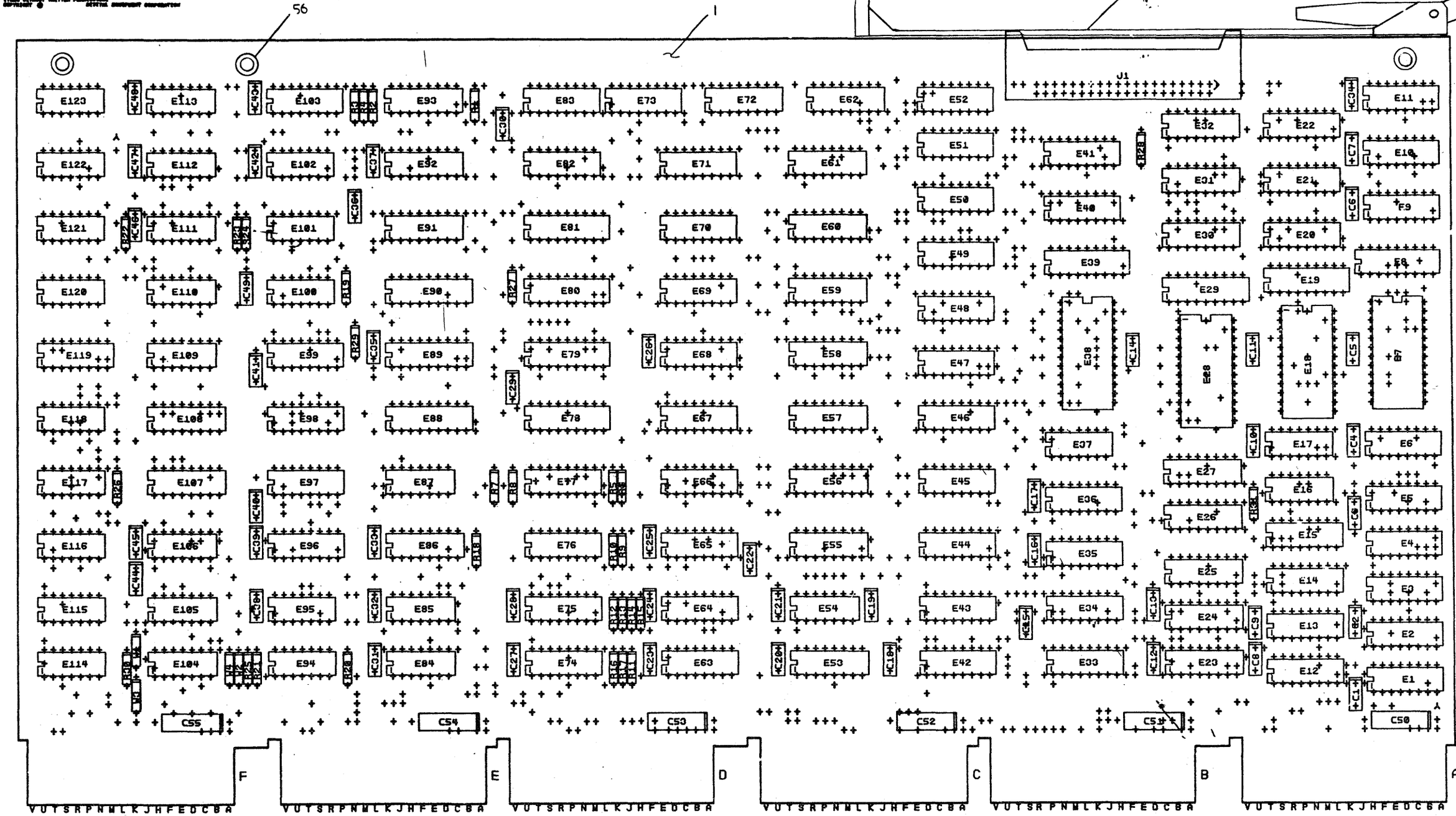
COMPONENT SIDE VIEW





NOTES:

CHK	CHANGE NO	REV
	B-ADD L-17	
M.SULLIVAN	M.SULLIVAN 7-20-77	B
	00002	
M8265-TM004		C
E.CROCKER	E.CROCKER 11-30	
		4-9-81

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

SIGNATURES	DATE
DRN. D. BILODEAU	9-8-76
CHK'D.	4-11-77
ENG.	7-11-77
PROJ.ENG.	7-11-77
PROD.	
SCALE 2/1	
SHT. 1 OF 1	
NEXT HIGHER ASSY. B DD M8265-0-0	

digital

TITLE KDII-EA DATA PATH

SIZE	CODE	NUMBER	REV
D	UA	M8265-0-0	C

DUA M8265-0-0 C

TM 1 MS# 116400

AUTOMATED BY PRTLST.3P(44) P A R T S L I S T SHEET A1 OF A2

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
1	1	D-MD-5012433-0-0	5012433-00	M8265	1	
2	2		1001610-00	.01 MFD 50V +80-20% 25U CER	48	C1-C48
3	3		1005306-00	6.8MFD 35V 10% S.TANT	6	C50-C55
4	4		1000021-00	220.0 MMF 100V 5%200PPM MICA	1	C49
5	5		1300316-00	470.0 .25 W 5.0 % CC	19	R1-R19
6	6		1300365-00	1.0 K .25 W 5.0 % CC	8	R20-R23,R26-R29
7	7		1300202-00	47.0 .25 W 5.0 % CC	1	R24
8	8		1300271-00	220.0 .25 W 5.0 % CC	2	R25,R30
9	9		1300309-00	390.0 .25 W 5.0 % CC	1	R31
10	10		1216988-02	HANDLE,MODULE,HEX TWO EJECTORS	1	
11	11		1213506-01	HEADER 40POS RT ANGLE W/3 SI	1	J1
12	12		1612463-00	DELAY= 150NS,10TAPS	1	E104
13	13		1911521-00	7432 OR GATE-QUAD 2IN, PO	1	E122
14	14		1905576-00	7410 NAND GATE-TRIPLE 3IN	1	E123
15	15		1909004-00	DEC 7402 NOR GATE-QUAD 2IN	3	E101,E102,E114
16	16		1909686-00	7404 INVERTER GATE-HEX 1I	1	E117
17	17		1910155-00	DEC 7408 AND GATE,POS.QUAD 2I	1	E112
18	18		1905575-00	7400 NAND GATE-QUAD 2IN	1	E110
19	19		1911637-00	74132 NAND GATE-QUAD 2 IN	1	E120
20	20		1905573-00	7430 NAND GATE-SINGLE 8IN	2	E54,E87
21	21		1910091-00	DEC 7437 AND GATE-QUAD 2IN,BU	1	E116
22	22		1910544-00	74S74 FF-D DUAL,EDGE TRIGG	2	E100,E109
23	23		1910224-00	DEC 7485 COMPARATOR-4BIT	2	E61,E72
24	24		1910011-00	DEC 7486 X-OR GATE-QUAD 2INPU	1	E115
25	25		1911579-00	8641 TRANSCEIVER,BUS,QUA	9	E1,E12,E23,E42,E43,E53,E63,E64, CONT E33
26	26		1909713-00	DEC 8815 NOR GATE-DUAL 4IN	2	E17,E37
27	27		1909937-00	74153 MUX 1 OF 4 (DUAL)	3	E6,E9,E119
28	28		1912389-00	74S08 AND GATE-QUAD 2IN,PO	1	E106
29	29		1910655-00	74157 MUX 2 TO 1 QUAD	5	E20,E30,E40,E92,E93

REVISION HISTORY

ENG	ECO NUMBER	REV
---	INITIAL	C

BASIC PART NO: M8265

SECTION A OF A

SECTION.VARIATION INDEX

[A] 00
[B]
[C]
[D]
[E]
[F]
[H]
[J]
[K]
[L]
[M]
[N]

DRN: J.CASEY DATE: 28-JAN-81

CHK'D: J.CASEY DATE: 28-JAN-81

DES.ENG: E.CROCKER DATE: 28-JAN-81

RESP.ENG.: E.CROCKER DATE: 28-JAN-81

MFG.ENG.: J.AUILY DATE: 28-JAN-81

ASSEMBLY NUMBER: D-UA-M8265-0-0

TOP DOCUMENT NUMBER:

DIGITAL

TITLE PARTS LIST

KD11E-A DATA PATH

DOCUMENT NUMBER

SIZE	CODE	NUMBER	REV
K	PL	M8265-0-DBP	C

FILE NAME: Z1278C.PLS EDIT #: 4

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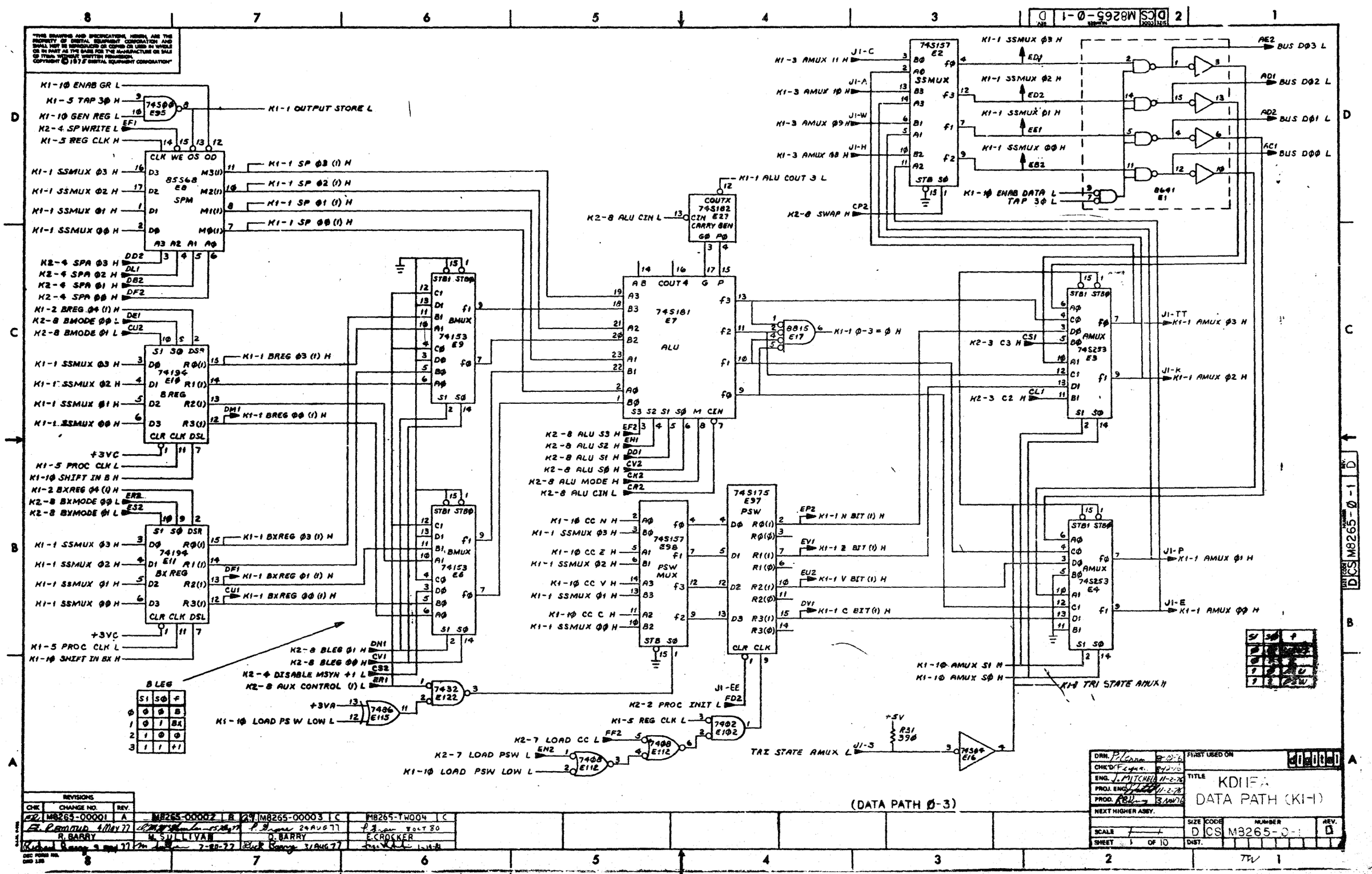
P A R T S L I S T

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER		DESCRIPTION	QTY PER VARIATION DD	REFERENCE DESIGNATOR
30	30		1910652-00		74174 FF-D HEX	4	E50,E51,E62,E73
31	31		1910651-00	DEC	74175 FF-D QUAD	3	E82,E99,E103
32	32		1910623-00		74194 SHIFT REG.,4BIT RIGH	8	E10,E11,E21,E22,E31,E32,E41,E52
33	33		1909932-01		7483A ADDER-4BIT W/LOOK AH	3	E45,E56,E66
34	34		1911271-00		74298 MUX 1 OF 4 W/STORA	3	E44,E55,E65
35	35		1909849-00		74H01 NAND GATE-QUAD 2IN,O	1	E111
36	36		1910532-00		74S00 NAND GATE-QUAD 2IN	3	E95,E113,E118
37	37		1910534-00		74S04 INVERTER GATE-HEX II	2	E16,E105
38	38		1910547-00		74S153 MUX 1 OF 4 (DUAL)	4	E13,E14,E34,E35
39	39		1910548-00		74S157 MUX 1 OF 2 (QUAD)	7	E2,E24,E71,E91,E96,E98,E108
40	40		1910550-00		74S174 FF-D HEX	3	E47-E49
41	41		1910531-00	DEC	74S181 ALU-4BIT	4	E7,E18,E28,E38
42	42		1912097-00	SN	74S182 LOOK AHD CARRY GEN	1	E27
43	43		1912646-00		LS253 MUX 1 OF 4 (DUAL)	8	E57-E60,E67-E70
44	44		1912586-00	DM	85S68N REGISTER,64BIT EDGE	11	E8,E19,E29,E39,E78-E81,E88-E90
45	45		1910536-00		74S10 NAND GATE-TRIPLE 3IN	1	E94
46	46		1910957-00		74S175 FF-D QUAD COMMON CLO	1	E97
47	47		1910537-00		74S11 AND GATE-TRIPLE 3INP	1	E121
48	48		23159A2-00		A2-02,A2-04	2	E74,E75
49	49		23169A2-00		A2-02,A2-04	1	E76
50	50		23167A2-00		A2-02,A2-04	1	E77
51	51		23165A2-00		A2-02,A2-04	1	E83
52	52		23166A2-00		A2-02,A2-04	1	E86
53	53		23164A2-00		A2-05	1	E107
54	54		1912746-00	DEC	74S37 NAND GATE-QUAD 2IN	2	E84,E85
55	55		1912660-00		74S253 MUX 1 OF 4 (DUAL)	8	E3-E5,E15,E25,E26,E36,E46
56	56		9000024-01		EYELET, ROLLED FLANGE, .121 OD X	11	
57	57		9009185-00		JUMPER, WIRE, INSULATED, BLACK B	2	W1,W2

D	I	G	I	T	A	L	TITLE	SECTION	SIZE	CODE	DOCUMENT NUMBER	REV
							KD11E-A DATA PATH	A OF A	K	PL	M8265-0-DBP	C


K1-10 ENAB GR L
K1-5 TAP 3Φ H
K1-10 GEN REG L
K2-4 SP WRITE L
K1-5 REG CLK H
74S00 E95
K1-1 OUTPUT STORE L
CLK WE OS OD
85S68 E8 SPM
K1-1 SSMUX Φ3 H
K1-1 SSMUX Φ2 H
K1-1 SSMUX Φ1 H
K1-1 SSMUX ΦΦ H
A3 A2 A1 AΦ
K1-1 SP Φ3 (1) H
K1-1 SP Φ2 (1) H
K1-1 SP Φ1 (1) H
K1-1 SP ΦΦ (1) H
K2-4 SPA Φ3 H
K2-4 SPA Φ2 H
K2-4 SPA Φ1 H
K2-4 SPA ΦΦ H
K1-2 BREG Φ4 (1) H
K2-8 BMODE ΦΦ L
K2-8 BMODE Φ1 L
S1 SΦ DSR
74194 E10 BREG
K1-1 BREG Φ3 (1) H
K1-1 BREG ΦΦ (1) H
CLR CLK DSL
+3VC
K1-5 PROC CLK L
K1-10 SHIFT IN B H
K1-2 BXREG Φ4 (1) H
K2-8 BXMODE ΦΦ L
K2-8 BXMODE Φ1 L
74194 E11 BX REG
K1-1 BXREG Φ3 (1) H
K1-1 BXREG Φ1 (1) H
K1-1 BXREG ΦΦ (1) H
K1-5 PROC CLK L
K1-10 SHIFT IN BX H
B LEG
S1 SΦ F
Φ Φ Φ B
1 Φ 1 BX
2 1 Φ Φ
3 1 1 +1
STB1 STBΦ
74153 E9 BMUX
74153 E6 BMUX
K2-8 BLEG Φ1 H
K2-8 BLEG ΦΦ H
K2-4 DISABLE MSYN +1 L
K2-8 AUX CONTROL (1) L
7432 E122
+3VA
7486 E115
K1-10 LOAD PS W LOW L
COUTX 74S182 CIN E27 CARRY GEN
K2-8 ALU CIN L
K1-1 ALU COUT 3 L
74S181 E7 ALU
A8 COUT4 G P
S3 S2 S1 SΦ M CIN
K2-8 ALU S3 H
K2-8 ALU S2 H
K2-8 ALU S1 H
K2-8 ALU SΦ H
K2-8 ALU MODE H
K2-8 ALU CIN L
8815 E17
K1-1 Φ-3 = Φ H
74S157 E98 PSW MUX
K1-10 CC N H
K1-1 SSMUX Φ3 H
K1-10 CC Z H
K1-1 SSMUX Φ2 H
K1-10 CC V H
K1-1 SSMUX Φ1 H
K1-10 CC C H
K1-1 SSMUX ΦΦ H
STB SΦ
74S175 E97 PSW
CLR CLK
K1-1 N BIT (1) H
K1-1 Z BIT (1) H
K1-1 V BIT (1) H
K1-1 C BIT (1) H
J1-EE
K2-2 PROC INIT L
7402 E102
K1-5 REG CLK L
7408 E112
K2-7 LOAD CC L
K2-7 LOAD PSW L
K1-10 LOAD PSW LOW L
74S157 E2 SSMUX
J1-C
K1-3 AMUX 11 H
J1-A
K1-3 AMUX 10 H
J1-W
K1-3 AMUX Φ9 H
J1-H
K1-3 AMUX 88 H
STB SΦ
K1-1 SSMUX Φ3 H
K1-1 SSMUX Φ2 H
K1-1 SSMUX Φ1 H
K1-1 SSMUX ΦΦ H
8641 E1
K1-10 ENAB DATA L
TAP 3Φ L
K2-8 SWAP H
AE2 BUS DΦ3 L
AD1 BUS DΦ2 L
AD2 BUS DΦ1 L
AC1 BUS DΦΦ L
STB1 STBΦ
74S253 E3 AMUX
K2-3 C3 H
K2-3 C2 H
J1-TT
K1-1 AMUX Φ3 H
J1-K
K1-1 AMUX Φ2 H
74S253 E4 AMUX
J1-P
K1-1 AMUX Φ1 H
J1-E
K1-1 AMUX ΦΦ H
K1-10 AMUX S1 H
K1-10 AMUX SΦ H
K1-8 TRI STATE AMUX H
+5V
R31 390
TRI STATE AMUX L
J1-3
7438 E16
(DATA PATH Φ-3)
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REVISIONS
CHK | CHANGE NO. | REV.
M8265-00001 | A
M8265-00002 | B
M8265-00003 | C
M8265-TW004 | C
R. BARRY
M. SULLIVAN
D. BARRY
E. CROCKER
DRN. P. Lane 8-12-76
CHK'D' Fagan 8-12-76
ENG. J. MITCHELL 11-2-76
PROJ. ENG. 11-2-76
PROD. 3 NOV 76
NEXT HIGHER ASSY.
FIRST USED ON
TITLE KDIIA DATA PATH (KI-H)
SCALE
SHEET 1 OF 10
SIZE D CODE CS NUMBER M8265-0-1 REV. D
DIST.
DCS M8265-0-1 REV D

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K1-10 ENAB GR L
K1-1 OUTPUT STORE L
K2-4 SPWRITE L
K1-5 REG CLK H
85S68 E29 SPM
CLK WE OS OD
D3 D2 D1 D0 M3(1) M2(1) M1(1) M0(1)
A3 A2 A1 A0
K1-2 SSMUX Ø7 H
K1-2 SSMUX Ø6 H
K1-2 SSMUX Ø5 H
K1-2 SSMUX Ø4 H
K1-2 SP Ø7 (1) H
K1-2 SP Ø6 (1) H
K1-2 SP Ø5 (1) H
K1-2 SP Ø4 (1) H
K2-4 SPA Ø3 H
K2-4 SPA Ø2 H
K2-4 SPA Ø1 H
K2-4 SPA ØØ H
DD2
DL1
DB2
DF2
K1-10 SHIFT IN Ø7 H
K2-8 BMODE ØØ L
K2-8 BMODE Ø1 L
DE1
CU2
74194 E31 BREG
S1 S0 DSR
D0 D1 D2 D3 R0(1) R1(1) R2(1) R3(1)
CLR CLK DSL
K1-2 BREG Ø7 (1) H
K1-2 BREG Ø6 (1) H
K1-2 BREG Ø5 (1) H
K1-2 BREG Ø4 (1) H
+3VC
K1-5 PROC CLK L
K1-1 BREG Ø3 (1) H
K1-3 BXREG ØØ (1) H
K2-8 BXMODE ØØ L
K2-8 BXMODE Ø1 L
ER2
ES2
74194 E32 BX REG
K1-2 BXREG Ø7 (1) H
K1-2 BXREG Ø6 (1) H
K1-2 BXREG Ø5 (1) H
K1-2 BXREG Ø4 (1) H
+3VC
K1-5 PROC CLK L
K1-1 BXREG Ø3 (1) H
74157 E30 BMUX
B2 A2 B1 A1 B3 A3 B0 A0
f2 f3 f0 f1
STB S0
K2-8 BLEG Ø1 H
K2-8 BLEG ØØ H
DN1
CV1
K1-2 BLEG Ø7 H
K1-2 ALU COUT 7 L
COUTY
74S182 E27 CARRY GEN
G1 P1
74S181 E28 ALU
AB COUT4 G P
A3 B3 A2 B2 A1 B1 A0 B0
f3 f2 f1 f0
S3 S2 S1 S0 M CIN
K1-2 ALU Ø7 H
8815 E37
K1-2 4-7=Ø H
K2-6 ALU S3 H
K2-8 ALU S2 H
K2-8 ALU S1 H
K2-8 ALU S0 H
K2-8 ALU MODE H
K1-1 ALU COUT 3 L
EF2
EH1
DD1
CV2
CK2
74S157 E29 SSMUX
K1-4 AMUX 15 H
K1-4 AMUX 14 H
K1-4 AMUX 13 H
K1-4 AMUX 12 H
J1-KK
J1-CC
J1-JJ
J1-NN
B0 A0 B3 A3 B1 A1 B2 A2 STB S0
f0 f3 f1 f2
K1-2 SSMUX Ø7 H
K1-2 SSMUX Ø6 H
K1-2 SSMUX Ø5 H
K1-2 SSMUX Ø4 H
CE2
CC1
EH2
CD1
CP2
K2-8 SWAP H
K1-10 ENAB DATA L
TAP 3Ø L
8641 E23
AH2
AF1
AF2
AE1
BUS DØ7 L
BUS DØ6 L
BUS DØ5 L
BUS DØ4 L
74S253 E25 AMUX
STB1 STB0
A0 C0 D0 B0 A1 C1 D1 B1 S1 S0
f0 f1
K2-1 KTE (1) H
K2-1 PE (1) H
CN2
CT2
J1-LL
K1-2 AMUX Ø7 H
J1-AA
K1-2 AMUX Ø6 H
74S253 E26 AMUX
J1-U
K1-2 AMUX Ø5 H
J1-Y
K1-2 AMUX Ø4 H
K2-3 C4 H
K1-10 AMUX S1 H
K1-10 AMUX S0 H
74175 E99 PSW
D0 D1 D2 D3 R0(1) R0(Ø) R1(1) R1(Ø) R2(1) R2(Ø) R3(1) R3(Ø)
CLR CLK
EK2
K1-2 PSW Ø7 (1) H
EU1
K1-2 PSW Ø6 (1) H
ET2
K1-2 PSW Ø5 (1) H
K1-1 TRI STATE AMUX H
FD2
K2-2 PROC INIT L
K1-5 REG CLK L
K1-10 LOAD PSW LOW L
K2-6 DISABLE LOAD PSW H
K2-7 LOAD PSW L
7402 E102
7408 E112
7432 E122
FS2
EN2
K1-2 LOAD PSW 12-15 L
+3VD
DK1
K1-2 TBIT (1) H
74S74 E109
7402 E101

(DATA PATH 4-7)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
KDIIEA DATA PATH (K1-2)	D	DCS	M8265-0-1	D
SCALE —	SHEET 2 OF 10	DIST.		

DEC FORM NO. 8000 1/80

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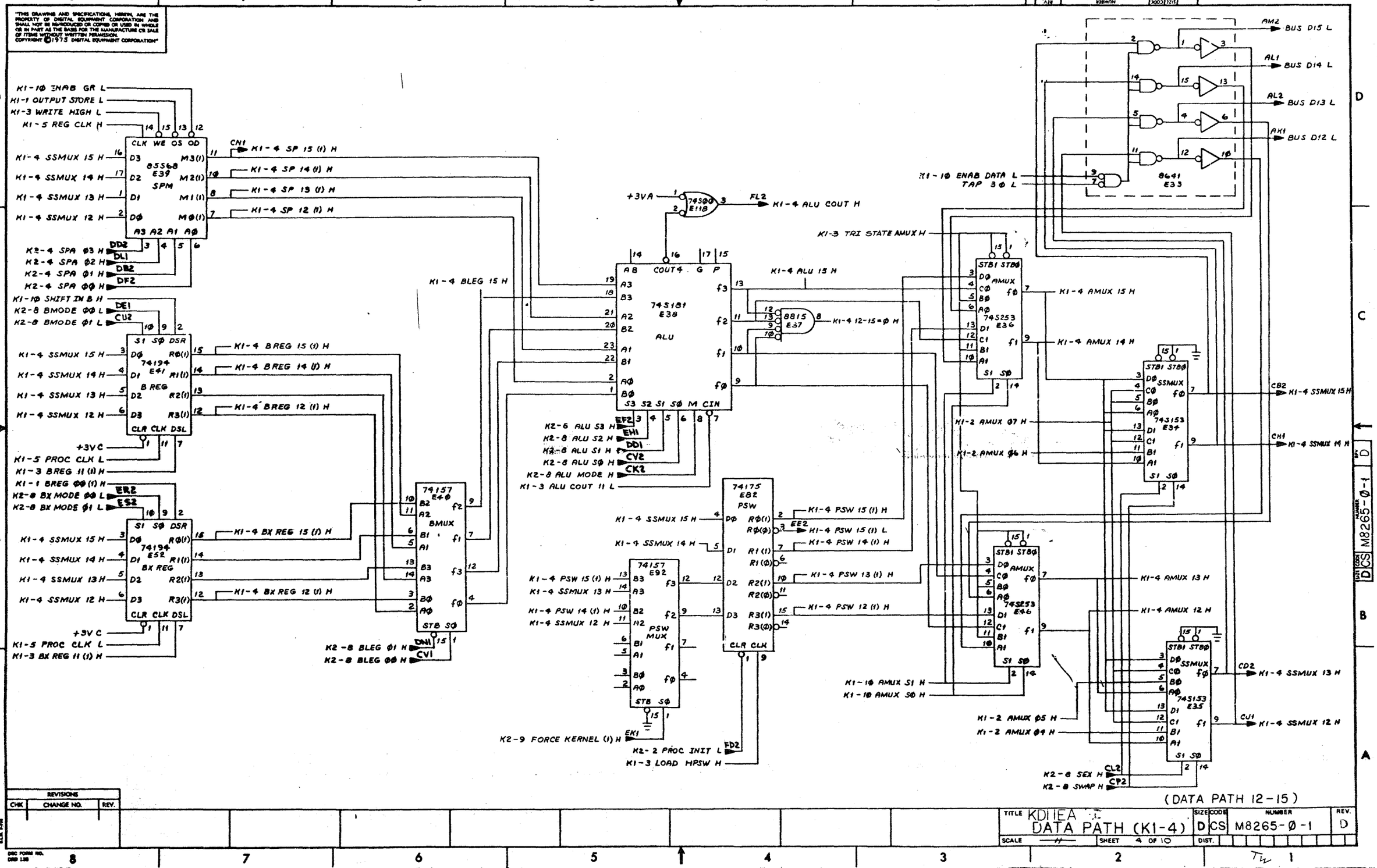
K1-10 ENAB GR L
K1-1 OUTPUT STORE L
K2-4 SP WRITE L
K2-8 DISABLE UPPER BYTE WRITE H
7432 E122 FR1
K1-3 WRITE HIGH L
K1-5 REG CLK H
CLK WE OS OD
85S68 E19 SPM
A3 A2 A1 A0
K1-3 SSMUX 11 H
K1-3 SSMUX 10 H
K1-3 SSMUX 09 H
K1-3 SSMUX 08 H
M3(1) M2(1) M1(1) M0(1)
K1-3 SP 11 (1) H
K1-3 SP 10 (1) H
K1-3 SP 09 (1) H
K1-3 SP 08 (1) H
K2-4 SPA 03 H DD2
K2-4 SPA 02 H DL1
K2-4 SPA 01 H DB2
K2-4 SPA 00 H DF2
K1-4 BREG 12 (1) H
K2-8 BMODE 00 L DE1
K2-8 BMODE 01 L CV2
S1 S0 DSR
74194 E21 B REG
D0 D1 D2 D3
R0(1) R1(1) R2(1) R3(1)
CLR CLK DSL
K1-3 BREG 11 (1) H
K1-3 BREG 08 (1) H
+3VC
K1-5 PROC CLK L
K1-2 BREG 07 (1) H
K1-4 BXREG 12 (1) H
K2-8 BXMODE 00 L FR2
K2-8 BXMODE 01 L ES2
74194 E22 BX REG
K1-3 BXREG 11 (1) H
K1-3 BXREG 08 (1) H
74157 E20 BMUX
B2 A2 B1 A1 B3 A3 B0 A0
f2 f1 f3 f0
STB S0
K2-8 BLEG 01 H DN1
K2-8 BLEG 00 H CV1
K1-10 LOAD PSW HIGH L
K1-2 LOAD PSW 12-15 L
7408 E112
K1-5 REG CLK L
7402 E101
K1-3 LOAD HPSW H
TRI STATE AMUX L J1-S
COUT2 74S182 E27 CARRY GEN G2 P2
74S64 E16
K1-3 ALU COUT 11 L
AB COUT4 G P
74S181 E18 ALU
A3 B3 A2 B2 A1 B1 A0 B0
f3 f2 f1 f0
S3 S2 S1 S0 M CIN
EF2 EH1 DD1 CV2 CK2
K2-8 ALU S3 H
K2-8 ALU S2 H
K2-8 ALU S1 H
K2-8 ALU S0 H
K2-8 ALU MODE H
K1-2 ALU COUT 7 L
8815 E17
K1-1 AMUX 03 H
K1-3 8-11=0 H
K1-1 AMUX 02 H
K1-3 AMUX 09 H
K1-10 AMUX S1 H
K1-10 AMUX S0 H
K1-3 AMUX 08 H
K1-1 AMUX 01 H
K1-4 AMUX 15 H
K1-2 AMUX 07 H
K1-1 AMUX 00 H
K2-8 SEX H CL2
K2-8 SWAP H CP2
K1-3 TRI STATE AMUX H
K1-10 ENAB DATA L
TAP 30 L
8641 E12
AH2 BUS D11 L
AJ1 BUS D10 L
AJ2 BUS D09 L
AH1 BUS D08 L
ST81 ST80 AMUX
74S253 E15
K1-3 AMUX 11 H
K1-3 AMUX 10 H
74S153 E13 SSMUX
CF2 K1-3 SSMUX 11 H
CH2 K1-3 SSMUX 10 H
74S153 E14 SSMUX
CJ2 K1-3 SSMUX 09 H
EN1 K1-3 SSMUX 08 H

S1	S0	f
0	0	AMUX
0	1	AMUX SWAP
1	0	AMUX SEX
1	1	AMUX SWAP + SEX

(DATA PATH 8-11)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
KDIIEA DATA PATH (K1-3)	D	DCS	M8265-0-1	D
SCALE —	SHEET 3 OF 10	DIST.		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K1-10 ENAB GR L
K1-1 OUTPUT STORE L
K1-3 WRITE HIGH L
K1-5 REG CLK H
CLK WE OS OD
85568 E39 SPM
A3 A2 A1 A0
K1-4 SSMUX 15 H
K1-4 SSMUX 14 H
K1-4 SSMUX 13 H
K1-4 SSMUX 12 H
CN1
K1-4 SP 15 (1) H
K1-4 SP 14 (1) H
K1-4 SP 13 (1) H
K1-4 SP 12 (1) H
K2-4 SPA 03 H
K2-4 SPA 02 H
K2-4 SPA 01 H
K2-4 SPA 00 H
DD2
DL1
DB2
DF2
K1-10 SHIFT IN B H
K2-8 BMODE 00 L
K2-8 BMODE 01 L
DE1
CU2
S1 S0 DSR
74194 E41 B REG
CLR CLK DSL
K1-4 BREG 15 (1) H
K1-4 BREG 14 (1) H
K1-4 BREG 13 (1) H
K1-4 BREG 12 (1) H
+3V C
K1-5 PROC CLK L
K1-3 BREG 11 (1) H
K1-1 BREG 00 (1) H
ER2
ES2
K2-8 BX MODE 00 L
K2-8 BX MODE 01 L
74194 E52 BX REG
K1-4 BX REG 15 (1) H
K1-4 BX REG 12 (1) H
+3V C
K1-5 PROC CLK L
K1-3 BX REG 11 (1) H
74157 E40 BMUX
STB S0
DN1
CV1
K2-8 BLEG 01 H
K2-8 BLEG 00 H
K1-4 BLEG 15 H
+3VA
74S00 E118
FL2
K1-4 ALU COUT H
74S181 E38 ALU
A8 COUT4 G P
S3 S2 S1 S0 M CIN
K1-4 ALU 15 H
8815 E37
K1-4 12-15=0 H
EF2
EH1
DD1
CV2
CK2
K2-6 ALU S3 H
K2-8 ALU S2 H
K2-8 ALU S1 H
K2-8 ALU S0 H
K2-8 ALU MODE H
K1-3 ALU COUT 11 L
74157 E92 PSW MUX
K1-4 PSW 15 (1) H
K1-4 SSMUX 13 H
K1-4 PSW 14 (1) H
K1-4 SSMUX 12 H
EK1
K2-9 FORCE KERNEL (1) H
74175 E82 PSW
EE2
K1-4 PSW 15 (1) H
K1-4 PSW 14 (1) H
K1-4 PSW 13 (1) H
K1-4 PSW 12 (1) H
FD2
K2-2 PROC INIT L
K1-3 LOAD HPSW H
K1-3 TRI STATE AMUX H
8641 E33
K1-10 ENAB DATA L
TAP 3 0 L
AM2
BUS D15 L
AL1
BUS D14 L
AL2
BUS D13 L
AK1
BUS D12 L
STB1 STB0 AMUX
74S253 E36
K1-4 AMUX 15 H
K1-4 AMUX 14 H
74S153 E34
K1-2 AMUX 07 H
K1-2 AMUX 06 H
CB2
K1-4 SSMUX 15 H
CH1
K1-4 SSMUX 14 H
74S253 E46
K1-4 AMUX 13 H
K1-4 AMUX 12 H
74S153 E35
K1-10 AMUX S1 H
K1-10 AMUX S0 H
K1-2 AMUX 05 H
K1-2 AMUX 04 H
CD2
K1-4 SSMUX 13 H
CU1
K1-4 SSMUX 12 H
K2-8 SEX H
K2-8 SWAP H
CL2
CP2
(DATA PATH 12-15)
REVISIONS
CHK
CHANGE NO.
REV.
TITLE KDIIEA
DATA PATH (K1-4)
SIZE D
CODE DCS
NUMBER M8265-0-1
REV. D
SCALE
SHEET 4 OF 10
DIST.
DEC FORM NO. 2260 1/80

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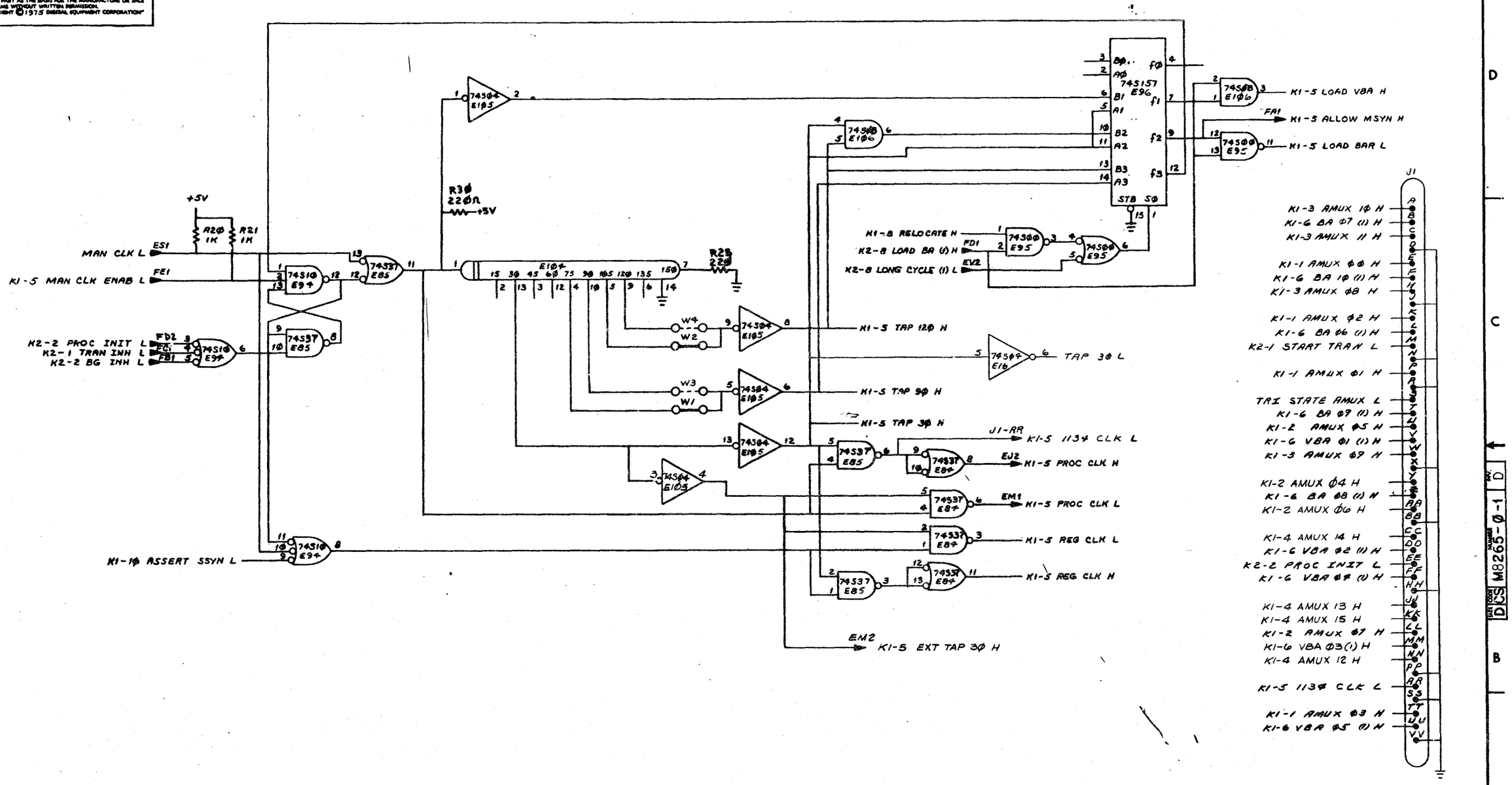

(CPU CLK)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
KDIIEA DATA PATH (KI-5)	D	CS	M8265-0-1	D
SCALE —	SHEET 5 OF 10	DIST.		

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74S11 E121

74S174 E49 — VBA — CLR CLK
KI-4 SP 15 (I) H
KI-4 SP 14 (I) H
KI-4 SP 13 (I) H
KI-4 SP 12 (I) H
KI-3 SP 11 (I) H
KI-3 SP 10 (I) H
KI-6 VBA 15 (I) H
KI-6 VBA 14 (I) H
KI-6 VBA 13 (I) H
KI-6 VBA 12 (I) H
KI-6 VBA 11 (I) H
KI-6 VBA 10 (I) H

74S174 E48 — VBA — CLR CLK
KI-3 SP Ø9 (I) H
KI-3 SP Ø8 (I) H
KI-2 SP Ø7 (I) H
KI-2 SP Ø6 (I) H
KI-2 SP Ø5 (I) H
KI-2 SP Ø4 (I) H
KI-6 VBA Ø9 (I) H
KI-6 VBA Ø8 (I) H
KI-6 VBA Ø7 (I) H
KI-6 VBA Ø6 (I) H
J1-UU KI-6 VBA Ø5 (I) H
J1-FF KI-6 VBA Ø4 (I) H

74S174 E47 — VBA — CLR CLK
KI-1 SP Ø3 (I) H
KI-1 SP Ø2 (I) H
KI-1 SP Ø1 (I) H
KI-1 SP Ø0 (I) H
J1-MM KI-6 VBA Ø3 (I) H
J1-DD KI-6 VBA Ø2 (I) H
J1-V KI-6 VBA Ø1 (I) H
DH1 KI-6 VBA Ø0 (I) H
KZ-1 UBUS C1 (I) H
DJ1
KZ-1 UBUS CØ (I) H
DH2
KZ-2 PROC INIT L
KI-5 LOAD VBA H
DD2
KZ-1 ENAB ADDRS L
DE2

7483 E45 — ADDER — CØ
KI-7 PAR 11 (I) H
KI-7 PAR 10 (I) H
KI-7 PAR Ø9 (I) H
KI-7 PAR Ø8 (I) H

7483 E56 — ADDER — CØ
KI-7 PAR Ø7 (I) H
KI-7 PAR Ø6 (I) H
KI-7 PAR Ø5 (I) H
KI-7 PAR Ø4 (I) H

7483 E66 — ADDER — CØ
KI-7 PAR Ø3 (I) H
KI-7 PAR Ø2 (I) H
KI-7 PAR Ø1 (I) H
KI-7 PAR ØØ (I) H

74298 E44 — BA — WS CLK
KI-4 SP 15 (I) H
KI-4 SP 14 (I) H
BS1 BUS AI7 L
KI-6 PBA 17 H
BS2 BUS AI6 L
KI-6 PBA 16 H
BR1 BUS AI5 L
KI-6 PBA 15 H
BR2 BUS AI4 L
KI-6 PBA 14 H
8641 E43

74298 E55 — BA — WS CLK
KI-4 SP 13 (I) H
KI-4 SP 12 (I) H
KI-3 SP 11 (I) H
KI-3 SP 10 (I) H
J1-F KI-6 BA 1Ø (I) H
BP1 BUS AI3 L
KI-6 PBA 13 H
BP2 BUS AI2 L
KI-6 PBA 12 H
BN1 BUS AI1 L
KI-6 PBA 11 H
BN2 BUS AIØ L
KI-6 PBA 1Ø H
8641 E53

74298 E65 — BA — WS CLK
KI-3 SP Ø9 (I) H
KI-3 SP Ø8 (I) H
KI-2 SP Ø7 (I) H
KI-2 SP Ø6 (I) H
J1-T KI-6 BA Ø9 (I) H
J1-Z KI-6 BA Ø8 (I) H
J1-B KI-6 BA Ø7 (I) H
J1-L KI-6 BA Ø6 (I) H
BM1 BUS AØ9 L
KI-6 PBA Ø9 H
BM2 BUS AØ8 L
KI-6 PBA Ø8 H
BL1 BUS AØ7 L
KI-6 PBA Ø7 H
BL2 BUS AØ6 L
KI-6 PBA Ø6 H
8641 E64

KI-8 RELOCATE H
KI-5 LOAD BAR L

8641 E63
BH1 BUS AØ1 L
DV2 KI-6 PBA Ø1 H
BH2 BUS AØØ L
EC1 KI-6 PBA ØØ H
ST2 BUS C1 L
KI-6 C1 H
BU2 BUS CØ L
KI-6 CØ H

BK1 BUS AØ5 L
KI-6 PBA Ø5 H
BK2 BUS AØ4 L
KI-6 PBA Ø4 H
BJ1 BUS AØ3 L
EB1 KI-6 PBA Ø3 H
BJ2 BUS AØ2 L
DU2 KI-6 PBA Ø2 H
8641 E42

(UNIBUS ADDRESS)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE: KDIIEA DATA PATH (KI-6)	SIZE D	CODE CS	NUMBER M8265-Ø-1	REV. D
SCALE	SHEET 6 OF 10	DIST.		

DEC FORM NO. DRD 128

8 7 6 5 4 3 2 1

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K1-10 LOAD PAR HIGH L
K1-5 REG CLK H
+3VB
K1-3 SSMUX 11 H
K1-3 SSMUX 10 H
K1-3 SSMUX 09 H
K1-3 SSMUX 08 H
85568 E80 PAR
D3 D2 D1 D0 M3(1) M2(1) M1(1) M0(1)
CLK WE OS OD
A3 A2 A1 A0
K1-7 PAR 11 (1) H
K1-7 PAR 10 (1) H
K1-7 PAR 09 (1) H
K1-7 PAR 08 (1) H

K1-10 LOAD PDR HIGH L
K1-5 REG CLK H
+3VB
K1-4 SSMUX 14 H
K1-4 SSMUX 13 H
K1-4 SSMUX 12 H
85568 E89 PDR
K1-7 PDR 14 (1) H
K1-7 PDR 13 (1) H
K1-7 PDR 12 (1) H

K1-10 LOAD PAR LOW L
+3VB
K1-2 SSMUX 07 H
K1-2 SSMUX 06 H
K1-2 SSMUX 05 H
K1-2 SSMUX 04 H
85568 E79 PAR
K1-7 PAR 07 (1) H
K1-7 PAR 06 (1) H
K1-7 PAR 05 (1) H
K1-7 PAR 04 (1) H

+3VB
K1-3 SSMUX 11 H
K1-3 SSMUX 10 H
K1-3 SSMUX 09 H
K1-3 SSMUX 08 H
85568 E90 PDR
K1-7 PDR 11 (1) H
K1-7 PDR 10 (1) H
K1-7 PDR 09 (1) H
K1-7 PDR 08 (1) H

+3VB
K1-1 SSMUX 03 H
K1-1 SSMUX 02 H
K1-1 SSMUX 01 H
K1-1 SSMUX 00 H
85568 E78 PAR
K1-7 PAR 03 (1) H
K1-7 PAR 02 (1) H
K1-7 PAR 01 (1) H
K1-7 PAR 00 (1) H

K1-10 LOAD PDR LOW L
+3VB
K1-1 SSMUX 03 H
K1-1 SSMUX 02 H
K1-1 SSMUX 01 H
85568 E88 PDR
K1-7 ED (1) H
K1-7 ACF2 (1) H
K1-7 ACF1 (1) H

ED	DIRECTION
0	UP
1	DOWN

ACF2	ACF1	DESCRIPTION
0	0	NONRESIDENT
0	1	RESIDENT READ ONLY
1	0	ABOLT ALL ACCESSES
1	1	RESIDENT READ/WRITE

K1-8 MODE 01 H
K1-6 PBA 08 H
K1-6 VBA 15 (1) H
K1-6 PBA 03 H
K1-6 VBA 14 (1) H
K1-6 PBA 02 H
K1-6 VBA 13 (1) H
K1-6 PBA 01 H
74S157 E91 PAR/PDR ADRS MUX
B0 A0 B3 A3 B1 A1 B2 A2 STB S0
f0 f3 f1 f2
K1-10 PAR + PDR L

K1-10 PAR + PDR L
K2-1 MSYN (1) L
FK2
7400 E110
7400 E110
K1-6 C1 H

LOAD WBIT L
7404 E117
K1-7 WBIT H
ENAB W L
K1-8 RELOCATE H
K2-1 DISABLE WBIT L
K1-10 KT MUX S0 L
ES1
7410 E123
7400 E110
7400 E110
K1-10 PAR + PDR L

85568 E81 WBIT
CLK WE OS OD
D3 D2 D1 D0 M3(1) M2(1) M1(1) M0(1)
A3 A2 A1 A0

PAGE ADDRESS FIELD
PAR
PLF W ED ACF
PDR

(PAR + PDR)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE KDIIEA DATA PATH (K1-7)
SIZE D CODE CS NUMBER M8265-0-1 REV. D
SCALE — SHEET 7 OF 10 DIST.

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+3VD

K1-1 SS MUX ØØ H
K1-1Ø LOAD SRØ LOW L
K1-5 REG CLK L
K2-2 RCD INIT L
74S74 E1ØØ
74ØØ E1Ø2
K1-8 RELOCATE ENB (1) H (SRØ ØØ)

K2-8 ENAB MAINT (1) H
74S2Ø E113
K1-8 RELOCATE H

+5V
R1 47Ø R2 47Ø R3 47Ø R4 47Ø

K1-8 MODE Ø1 H
K1-8 MODE ØØ H
7486 E115

K2-1 UBUS C1 (1) H
K2-1 UBUS C0 (1) H
K2-8 DISABLE MSYN H
256 x 4 Q.C. E83 23-165A2

K1-7 ACF2 (1) H
K1-7 ACF1 (1) H

K1-3 SS MUX Ø8 H
K1-4.5S MUX 15 H
K1-4 SS MUX 14 H
K1-4 SS MUX 13 H
74157 E93 SRØ MUX

74175 E1Ø3 SRØ
K1-8 MAINT (1) H (SRØ Ø8)
K1-8 NR (1) H (SRØ 15)
K1-8 PL (1) H (SRØ 14)
K1-8 RO (1) H (SRØ 13)
7410 E123
7432 E122

K2-2 RCD INIT L
K1-5 REG CLK H
K1-1Ø LOAD SRØ HIGH L
74132 E12Ø
74S2Ø E1ØØ

FT2
K1-8 KT FAULT L
K1-8 ERROR H

K1-7 PDR 14 (1) H
K1-6 VBA 12 (1) H
K1-7 PDR 13 (1) H
K1-6 VBA 11 (1) H
K1-7 PDR 12 (1) H
K1-6 VBA 1Ø (1) H
K1-7 PDR 11 (1) H
K1-6 VBA Ø9 (1) H
7485 E72

K1-7 PDR 1Ø (1) H
K1-6 VBA Ø8 (1) H
K1-7 PDR Ø9 (1) H
K1-6 VBA Ø7 (1) H
K1-7 PDR Ø8 (1) H
K1-6 VBA Ø6 (1) H
7485 E61

K1-7 ED (1) H

K2-1 START TRANS
K1-8 RELOCATE H
K2-1 MSYN (1) L
J1-M EA1
74S2Ø E113

K1-4 PSW 15 (1) H
K1-4 PSW 13 (1) H
K1-4 PSW 14 (1) H
K1-4 PSW 12 (1) H
74S157 E71 SRØ MUX
K1-8 MODE Ø1 H
K1-8 MODE ØØ H

K1-6 VBA 15 (1) H
K1-6 VBA 14 (1) H
K1-6 VBA 13 (1) H
74174 E73 SRØ
K1-8 SRØ Ø6 (1) H
K1-8 SRØ Ø5 (1) H
K1-8 SRØ Ø3 (1) H
K1-8 SRØ Ø2 (1) H
K1-8 SRØ Ø1 (1) H

K2-9 FORCE KERNEL (1) H
K2-9 PREVIOUS MODE (1) L
K1-8 RELOCATE H
K2-1 CLK MSYN H
K2-2 RCD INIT L
74S2Ø E113
74ØØ E1Ø2

15	13	12	9	8	7	6	5	4	3	2	1	Ø
ERROR						MODE		PAGE M				ENAB

SRØ

(SRØ AND KT ERROR)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
KDIIEA DATA PATH (K1-8)	D	CS	M8265-Ø-1	D
SCALE	SHEET 8 OF 10	DIST.		

DEC FORM NO. DRD 138

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S1	S0	f
H	H	SR0
H	L	SR2
L	H	PAR
L	L	PDR

KI-16 ENA0 KT MUX L

KI-8 NR (1) H

KI-8 PL (1) H

KI-7 PDR 14 (1) H

KI-8 RO (1) H

KI-7 PDR 13 (1) H

KI-7 PDR 12 (1) H

KI-7 PAR 11 (1) H

KI-7 PDR 11 (1) H

KI-7 PAR 10 (1) H

KI-7 PDR 10 (1) H

KI-7 PAR 09 (1) H

KI-7 PDR 09 (1) H

KI-8 MAINT (1) H

KI-7 PAR 08 (1) H

KI-7 PDR 08 (1) H

KI-16 PAR & PDR L

KI-16 KT MUX S0 L

74174 E62 SR2

KI-6 VBA 15 (1) H
KI-6 VBA 14 (1) H
KI-6 VBA 13 (1) H
KI-6 VBA 12 (1) H
KI-6 VBA 11 (1) H
KI-6 VBA 10 (1) H

D2 R2(1) 7
D1 R1(1) 5
D0 R0(1) 2
D3 R3(1) 10
D5 R5(1) 15
D4 R4(1) 12
CLR CLK

74174 E51 SR2

KI-6 VBA 09 (1) H
KI-6 VBA 08 (1) H
KI-6 VBA 07 (1) H
KI-6 VBA 06 (1) H
KI-6 VBA 05 (1) H
KI-6 VBA 04 (1) H

D1 R1(1) 5
D0 R0(1) 2
D3 R3(1) 10 KI-9 SR2 07 (1) H
D5 R5(1) 15 KI-9 SR2 06 (1) H
D2 R2(1) 7 KI-9 SR2 05 (1) H
D4 R4(1) 12 KI-9 SR2 04 (1) H
CLR CLK

74174 E50 SR2

KI-6 VBA 03 (1) H
KI-6 VBA 02 (1) H
KI-6 VBA 01 (1) H
KI-6 VBA 00 (1) H

D3 R3(1) 10 KI-9 SR2 03 (1) H
D2 R2(1) 7 KI-9 SR2 02 (1) H
D0 R0(1) 2 KI-9 SR2 01 (1) H
D1 R1(1) 5 KI-9 SR2 00 (1) H
D5 R5(1) 15
D4 R4(1) 12
CLR CLK

KI-2 RCD INIT L

FP2

K2-5 LOAD IR H

74S04 E117

74S02 E101

LOAD SR2 H

KI-8 ERROR H

STB1 STB0 — 74LS253 E70 — KT MUX — S1 S0

KI-8 NR (1) H
KI-8 PL (1) H
KI-7 PDR 14 (1) H
KI-8 RO (1) H
KI-7 PDR 13 (1) H
KI-7 PDR 12 (1) H
KI-7 PAR 11 (1) H
KI-7 PDR 11 (1) H
KI-7 PAR 10 (1) H
KI-7 PDR 10 (1) H
KI-7 PAR 09 (1) H
KI-7 PDR 09 (1) H
KI-8 MAINT (1) H
KI-7 PAR 08 (1) H
KI-7 PDR 08 (1) H

f0 → KI-4 SP 15 (1) H
f1 → KI-4 SP 14 (1) H
f0 → KI-4 SP 13 (1) H
f1 → KI-4 SP 12 (1) H
f0 → KI-3 SP 11 (1) H
f1 → KI-3 SP 10 (1) H
f0 → KI-3 SP 09 (1) H
f1 → KI-3 SP 08 (1) H

KI-9 SR2 07 (1) H
KI-7 PAR 07 (1) H
KI-8 SR0 06 (1) H
KI-9 SR2 06 (1) H
KI-7 PAR 06 (1) H
KI-7 W BIT H
KI-8 SR0 05 (1) H
KI-9 SR2 05 (1) H
KI-7 PAR 05 (1) H
KI-9 SR2 04 (1) H
KI-9 PAR 04 (1) H
KI-8 SR0 03 (1) H
KI-9 SR2 03 (1) H
KI-7 PAR 03 (1) H
KI-7 ED 1 (1) H
KI-8 SR0 02 (1) H
KI-9 SR2 02 (1) H
KI-7 PAR 02 (1) H
KI-7 ACF 2 (1) H
KI-8 SR0 01 (1) H
KI-9 SR2 01 (1) H
KI-7 PAR 01 (1) H
KI-7 ACF1 (1) H
KI-8 RELOCATE ENB (1) H
KI-9 SR2 00 (1) H
KI-7 PAR 00 (1) H

STB1 STB0 — 74LS253 E68 — KT MUX — S1 S0

f0 → KI-2 SP 07 (1) H
f1 → KI-2 SP 06 (1) H
f0 → KI-2 SP 05 (1) H
f1 → KI-2 SP 04 (1) H
f0 → KI-1 SP 03 (1) H
f1 → KI-1 SP 02 (1) H
f0 → KI-1 SP 01 (1) H
f1 → KI-1 SP 00 (1) H

STB1 STB0 — 74LS233 E57 — KT MUX — S1 S0

S1	S0	f
0	0	PDR
0	1	PAR
1	0	SR2
1	1	SR0

(SR2 AND KT MUX)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
KDIIEA DATA PATH(KI-9)	D	CS	M8265-0-1	D
SCALE —	SHEET 9 OF 10	DIST.		

DCS M8265-0-1 REV D

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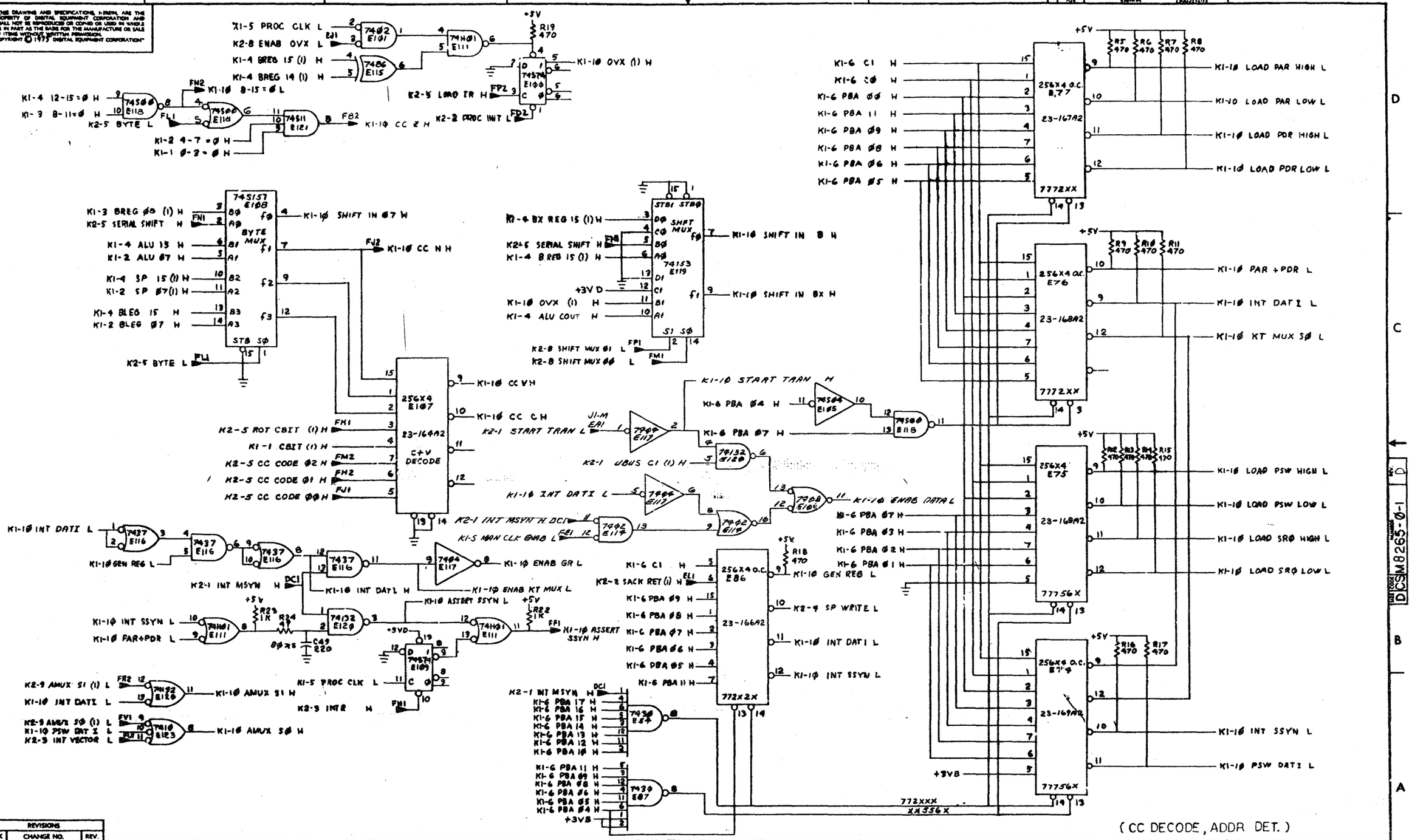

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
KDIIEA DATA PATH (KI-10)	D	DCS	M8265-0-1	D
SCALE — SHEET 10 OF 10	DIST.			

DEC FORM NO. 6259 1/80

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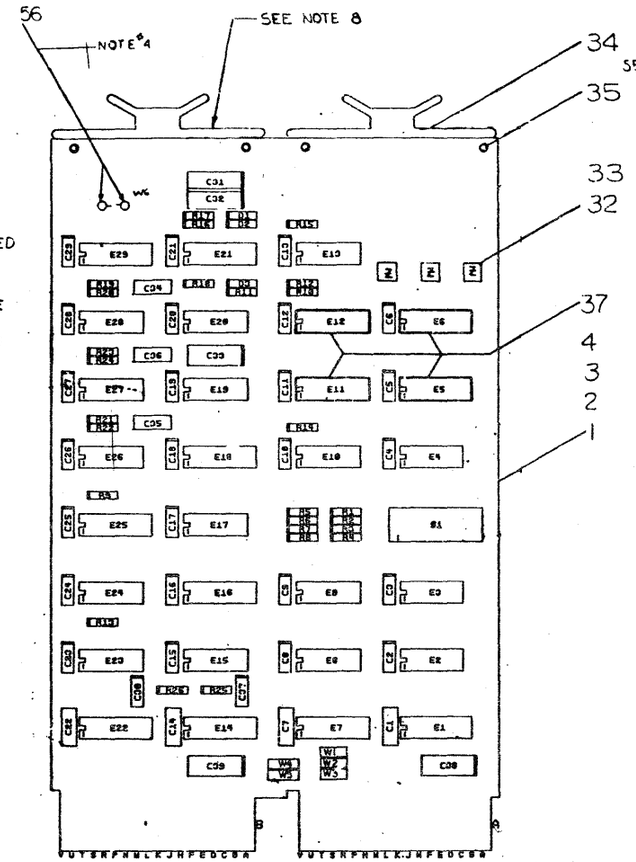
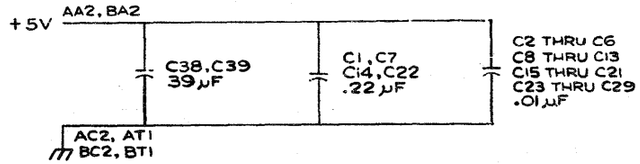
NOTES:

1. IN PDP11/04, 11/09 AND PDP 11/34, 11/39 SYSTEMS WITHOUT BATTERY BACKUP, TP1 SHOULD NOT BE CONNECTED TO THE POWER SUPPLY BATTERY STATUS SIGNAL UNLESS BOOTS ON ALL POWER RESTARTS ARE DESIRED.
2. IN ALL PDP11 SYSTEM WHOSE PROCESSOR MODULE DOES NOT CONTAIN GRANT PULL-UP RESISTORS, EITHER THE M9301 MUST BE POSITIONED IN THE TERMINATOR SLOT AT THE END OF THE UNIBUS FURTHEST FROM THE PROCESSOR OR JUMPERS W1 THRU W5 MUST BE INSTALLED, SO THE M9301 CAN BE INSERTED IN THE TERMINATOR SLOT NEXT TO THE PROCESSOR.
3. ON PDP11 SYSTEMS CONTAINING A BUS REPEATER OPTION, THE M9301 MUST BE INSTALLED ON THE PROCESSOR SIDE OF THE REPEATER SEE NOTE 2 FOR OTHER RESTRICTIONS.
4. JUMPER W6 SHOULD ONLY BE INSTALLED IN 11/55 AND 11/70 COMPUTERS WHOSE BACKPLANES HAVE BEEN MODIFIED FOR THIS MODULE. CONNECTOR PIN BD1 IN THESE MODIFIED BACKPLANES WILL NOT BE TIED TO GROUND.
5. EARLIER VERSIONS USED PLASTIC SWITCH COVER (PN 1211184-061) TO PREVENT INADVERTENT PROGRAMMING OF S1.
6. 11/40'S WITH RK06 REQUIRE CS REVISION P OR LATER.
7. 1001610-00 AND 1001610-01 ARE INTERCHANGEABLE
8. ON VARIATIONS YA, YB AND YF THIS HANDLE IS REMOVED





QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
REF	REF	X-Y COORDINATE HOLE LOCATION	K-CO-M9301-0-4	1
REF	REF	ASSY/DRILLING HOLE LAYOUT	D-AH-M9301-0-5	2
REF	REF	MODULE ECO HISTORY	B-MH-M9301-0-6	3
1	1	ETCHED CIRCUIT BOARD	5011208	4
4	4	CAP .22µF 50V	1010274-01	5
25	25	C2 THRU C6, C8 THRU C13 C15 THRU C21, C23 THRU C29 — CAP .01 µF 100V 20%	1001610-01	6
2	2	C30, C37 — CAP .001µF 250V 20%	1000043	7
4	4	C32, C33, C38, C39 — CAP 39 µF 10V 10%	1000076	8
3	3	C34, C35, C36 — CAP 270pF 100V 5%	1000022	9
3	3	D1, D2, D3 — DIODE DGG4 1N3606	1100114	10
8	8	R1 THRU R8 — RES 10K 1/4W 5%	1300479	11
2	2	R9, R12 — RES 1K 1/4W 5%	1300365	12
4	4	R11, R13, F.14, R18 — RES 4.7K 1/4W 5%	1300447	13
2	2	R16, R17 — RES 30K 1/4W 5%	1302394	14
3	3	R19, F.21, R23 — RES 47Ω 1/4W 5%	1300202	15
3	3	R20, R22, R24 — RES 2K 1/4W 5%	1302388	16
2	2	R25, R26 — RES 383Ω 1/4W 1%	1305125	17
2	2	E1, E22 — 28 RES DIVIDER NETWORK	13-12628-00	18
2	2	E7, E14 — 25 RES DIVIDER NETWORK	13-12628-01	19
8	8	E2, E3, E8, E9, E15, E23, E27, E28 — I.C. DEC 8881	1909705	20
2	2	E4, E10 — I.C. DEC 7402	1903004	21
1	1	E13 — I.C. DEC 7474	1905547	22
3	3	E16, E18, E25 — I.C. DEC 8837	1911116	23
1	1	E17 — I.C. DEC 7420	1905577	24
2	2	E19, E24 — I.C. DEC 314A	1909704	25
1	1	E20 — I.C. DEC 8640	1911469	26
1	1	E21 — I.C. DEC 9602	1910951	27
1	1	E26 — I.C. DEC 7437	1910091	28
1	1	E29 — I.C. DEC 7476	1905585	29
1	1	S1 — SWITCH, DIP, 10 POLE	1211164-06	30
~~1~~	~~1~~	~~SWITCH COVER~~	~~1211184-06~~	~~31~~
3	3	EYELET (FASTON)	9009000	32
3	3	TAB (FASTON)	9007112	33
2	2	HANDLE FLIP/CHIP MAGENTA	9008337-06	34
4	4	EYELET	9006732	35
1	1	C31 — CAP 1µF 35V 10%	1001776	36

M9301-YK M9301-YJ M9301-YE M9301-YH M9301-YF M9301-YD M9301-YC M9301-YB M9301-YA M9301

I.C. DEC 314	1	8
I.C. DEC 7476	13	5
I.C. DEC 8640	1	8
I.C. DEC 8837	8	16
I.C. DEC 9602	8	16
IC TYPE	GND	+5V

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

IC PIN LOCATIONS

FIRST USED ON OPTION MODEL: 11/04

ETCH BOARD REV. F

PARTS LIST

REV.	CHANGE NO.	DEC NO.	EIA NO.	DEC NO.	EIA NO.
F	REDESIGN-00002				
H	M9301-00003				
K	M9301-00005				
L	M9301-00006				
M	M9301-00007				
N	M9301-00008				
P	M9301-00009				
R	M9301-00010				
S	M9301-00011				
T	M9301-00013				
U	M9301-00014				
V	M9301-00015				
W	M9301-TW016				

SEMICONDUCTOR CONVERSION CHART

DRN. J. VINCENT	DATE 4/9/75	digital
CHK'D. R. COOK	DATE 5/28/75	
ENG. T. DUBANIEUR	DATE 6/23/75	
PROJ. ENG. J. BLOEM	DATE 6/19/75	
PROD. R. PETERSON	DATE 6/30/75	
NEXT HIGHER ASSY		
SCALE —		
SHEET 1 OF 5		

TITLE: UNIBUS TERMINATOR/ BOOTSTRAP

SIZE D | CODE CS | NUMBER M9301-0-1 | REV W

DIST.

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REWORK INSTRUCTIONS

FIELD SERVICE DEPOT: REMOVE THE INNER HANDLE LOCATED ABOVE C31 BY DRILLING OUT THE TWO EYELETS WITH A .125 INCH DRILL.

QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
M9301-YX	M9301-YJ	M9301-YE	M9301-YH	M9301-YF	M9301-YD	M9301-YC	M9301-YB	M9301-YA	M9301				
4	4	4	4	4	4	4	4	4	4	E5,E6,E11,E12	SOCKET, 16 PIN, I.C.	1211813	37
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	1	Ø	E5	I.C. DEC. TRI-STATE 2Ø48 ROM	23Ø34A9	38
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	1	Ø	E6	I.C. DEC TRI-STATE 2Ø48 ROM	23Ø35A9	39
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	1	Ø	E11	I.C. DEC TRI-STATE 2Ø48 ROM	23Ø36A9	4Ø
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	1	Ø	E12	I.C. DEC TRI-STATE 2Ø48 ROM	23Ø37A9	41
Ø	Ø	Ø	Ø	Ø	Ø	Ø	1	Ø	Ø	E5	I.C. DEC TRI-STATE 2Ø48 ROM	23Ø38A9	42
Ø	Ø	Ø	Ø	Ø	Ø	Ø	1	Ø	Ø	E6	I.C. DEC TRI-STATE 2Ø48 ROM	23Ø39A9	43
Ø	Ø	Ø	Ø	Ø	Ø	Ø	1	Ø	Ø	E11	I.C. DEC TRI-STATE 2Ø48 ROM	23Ø4ØA9	44
Ø	Ø	Ø	Ø	Ø	Ø	Ø	1	Ø	Ø	E12	I.C. DEC TRI-STATE 2Ø48 ROM	23Ø41A9	45
Ø	Ø	Ø	Ø	Ø	Ø	1	Ø	Ø	Ø	E5	I.C. DEC TRI-STATE 2Ø48 ROM	23Ø42A9	46
Ø	Ø	Ø	Ø	Ø	Ø	1	Ø	Ø	Ø	E6	I.C. DEC TRI-STATE 2Ø48 ROM	23Ø43A9	47
Ø	Ø	Ø	Ø	Ø	Ø	1	Ø	Ø	Ø	E11	I.C. DEC TRI-STATE 2Ø48 ROM	23Ø44A9	48
Ø	Ø	Ø	Ø	Ø	Ø	1	Ø	Ø	Ø	E12	I.C. DEC TRI-STATE 2Ø48 ROM	23Ø45A9	49
Ø	Ø	Ø	Ø	Ø	1	Ø	Ø	Ø	Ø	E5	I.C. DEC TRI-STATE 2Ø48 ROM	23Ø46A9	5Ø
Ø	Ø	Ø	Ø	Ø	1	Ø	Ø	Ø	Ø	E6	I.C. DEC TRI-STATE 2Ø48 ROM	23Ø47A9	51
Ø	Ø	Ø	Ø	Ø	1	Ø	Ø	Ø	Ø	E11	I.C. DEC TRI-STATE 2Ø48 ROM	2312 3A9	52
Ø	Ø	Ø	Ø	Ø	1	Ø	Ø	Ø	Ø	E12	I.C. DEC TRI-STATE 2Ø48 ROM	23Ø49A9	53
Ø	Ø	Ø	5	Ø	Ø	5	Ø	Ø	Ø	W1 THRU W5	JUMPER, WIRE, WHITE INSULATION	9009185	54
2	2	2	2	2	2	2	2	2	2	R10, R15	RES 220Ω, 1/4W, 5%	1300271	55
2	2	2	2	2	2	2	2	2			SPLIT LUG	9006735	56
Ø	Ø	Ø	Ø	1	Ø	Ø	Ø	Ø	Ø	E5	I.C. DEC TRI-STATE 2Ø48 ROM	2348ØA9	57
Ø	Ø	Ø	Ø	1	Ø	Ø	Ø	Ø	Ø	E6	I.C. DEC TRI-STATE 2Ø48 ROM	2348 1A9	58
Ø	Ø	Ø	Ø	1	Ø	Ø	Ø	Ø	Ø	E11	I.C. DEC TRI-STATE 2Ø48 ROM	23482A9	59
Ø	Ø	Ø	Ø	1	Ø	Ø	Ø	Ø	Ø	E12	I.C. DEC TRI-STATE 2Ø48 ROM	23483A9	6Ø
Ø	Ø	Ø	1	Ø	Ø	Ø	Ø	Ø	Ø	E5	I.C. DEC TRI-STATE 2Ø48 ROM	23332A9	61
Ø	Ø	Ø	1	Ø	Ø	Ø	Ø	Ø	Ø	E6	I.C. DEC TRI-STATE 2Ø48 ROM	23333A9	62
Ø	Ø	Ø	1	Ø	Ø	Ø	Ø	Ø	Ø	E11	I.C. DEC TRI-STATE 2Ø48 ROM	23334A9	63
Ø	Ø	Ø	1	Ø	Ø	Ø	Ø	Ø	Ø	E12	I.C. DEC TRI-STATE 2Ø48 ROM	23335A9	64
Ø	Ø	1	Ø	Ø	Ø	Ø	Ø	Ø	Ø	E5	I.C. DEC TRI-STATE 2Ø48 ROM	23538A9	65
Ø	Ø	1	Ø	Ø	Ø	Ø	Ø	Ø	Ø	E6	I.C. DEC TRI-STATE 2Ø48 ROM	23539A9	66
Ø	Ø	1	Ø	Ø	Ø	Ø	Ø	Ø	Ø	E11	I.C. DEC TRI-STATE 2Ø48 ROM	2354ØA9	67
Ø	Ø	1	Ø	Ø	Ø	Ø	Ø	Ø	Ø	E12	I.C. DEC TRI-STATE 2Ø48 ROM	23541A9	68
Ø	1	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	E5	I.C. DEC TRI-STATE 2Ø48 ROM	23520A9	69
Ø	1	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	E6	I.C. DEC TRI-STATE 2Ø48 ROM	23521A9	7Ø
Ø	1	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	E11	I.C DEC TRI-STATE 2Ø48 ROM	23522A9	71
Ø	1	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	E12	I.C DEC TRI-STATE 2Ø48 ROM	23523A9	72
A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R		WIRE 30 GA.	9105740-55	73
1	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	E5	I.C. DEC TRI-STATE 2Ø48 ROM	23744A9	74
1	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	E6	I.C. DEC TRI-STATE 2Ø48 ROM	23745A9	75
1	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	E11	I.C. DEC TRI-STATE 2Ø48 ROM	23746A9	76
1	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	E12	I.C. DEC TRI-STATE 2Ø48 ROM	23747A9	77
A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R		CEMENT PERMABOND	9009157	78

REVISIONS

CHK	CHANGE NO.	REV.

TITLE: UNIBUS TERMINATOR/BOOTSTRAP
SIZE: D | CODE: CS | NUMBER: M9301-Ø-1 | REV: W
SCALE: — | SHEET 2 OF 5 | DIST.

M9301-Ø-1 REV W
SIZE D CODE CS

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R17 30K +5V
C32 39 µF
D1 D664
W6 *** 6D1 ENB BOOT ADRS L
R12 1K +5V
9602 E21 390NS
8881 E23 BS1 BUS A17 L
8881 E23 BS2 BUS A16 L
8881 E23 BR1 BUS A15 L
8881 E23 BR2 BUS A14 L
8881 E15 BP1 BUS A13 L
8881 E15 BP2 BUS A12 L
8881 E15 BN2 BUS A10 L
8881 E15 BM1 BUS A09 L

R16 30K +5V
C31 1 µF
D2 D664
R15 220Ω +5V
TP2 TP3
9602 E21 8MS
** EXTERNAL BOOT SWITCH
PWR UP CLR L

7474 E13
8881 E28 BF1 BUS AC LO L
BUS DC LO L BF2
8837 E25
DC LO H
7437 E26
8640 E20
7476 E29
ENAB DATA H

BUS AC LO L BF1
8640 E20
R10 220Ω +5V
TP1
SI-2 POWER UP REBOOT ENABLE
R20 2K +5V
R19 47Ω
C34 270pF 150NS
R22 2K +5V
R21 47Ω
C35 270 pF 150NS
8881 E28
8881 E27 BU1 BUS SSYN L

R24 2K +5V
R23 47Ω
C36 270 pF
8640 E20
8837 E25 DC LO H
8881 E28

BUS A17 L BS1
BUS A16 L BS2
BUS A15 L BR1
BUS A14 L BR2
BUS A13 L BP1
BUS MSYN L BV1
314 E24
BUS CI L BT2
8837 E25

BUS INIT L AA1
R18 4.7K +5V
C33 39 µF
D3 D664
8640 E20
8881 E28
R11 4.7K +5V
PWR UP CLR L

R14 4.7K +5V
R13 4.7K +5V
ENAB DATA L
ENAB DATA H
8881 E27

BUS A12 L BP2
BUS A11 L BN1
BUS A10 L BN2
BUS A09 L BM1
8837 E16
8837 E25
7420 E17
SI-1 LOW ROM ENABLE
R9 1K +5V
* 765XXXL
* 773XXX L
7437 E26

BUS A06 L BL2
BUS A08 L BM2
BUS A04 L BK2
BUS A05 L BK1
BUS A03 L BJ1
BUS A01 L BH1
BUS A02 L BJ2
BUS A07 L BL1
E25-4 DC LO H
8837 E18
A08 H
A07 H
A06 H
A05 H
A04 H
A03 H
A02 H
A01 H
314 E19
7437 E26
ENAB JUMP L
765XXX L

* ADRESS BITS A13-A17 ARE DECODED BY E24

** CAUTION SHOULD BE TAKEN TO GUARANTEE PROPER NOISE FILTERING & LOGIC LEVELS ON THESE INPUTS

*** JUMPER W6 SHOULD ONLY BE INSTALLED IN 11/55 AND 11/70 COMPUTERS WHOSE BACKPLANES HAVE BEEN MODIFIED FOR THIS MODULE.

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
UNIBUS TERMINATOR/ BOOTSTRAP	D	CS	M9301-0-1	W
SCALE —	SHEET 3 OF 5	DIST.		

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765XXXL
AØ8 H
AØ7 H
AØ6 H
AØ5 H
AØ4 H
AØ3 H
AØ2 H
AØ1 H

E12 TRI-STATE D
14 I, 15 H, 1 G, 2 F, 3 E, 4 D, 7 C, 6 B, 5 A
04 → 9 ROM DI5 H
03 → 10 ROM DI4 H
02 → 11 ROM DI3 H
01 → 12 ROM DI2 H
MEI → 13

E11 * TRI-STATE C
14 I, 15 H, 1 G, 2 F, 3 E, 4 D, 7 C, 6 B, 5 A
04 → 9 ROM DI1 H
03 → 10 ROM DIØ H
02 → 11 ROM DØ9 H
01 → 12 ROM DØ8 L
MEI → 13

E6 * TRI-STATE B
14 I, 15 H, 1 G, 2 F, 3 E, 4 D, 7 C, 6 B, 5 A
04 → 9 ROM DØ7 L
03 → 10 ROM DØ6 L
02 → 11 ROM DØ5 L
01 → 12 ROM DØ4 L
MEI → 13

E5 * TRI-STATE A
14 I, 15 H, 1 G, 2 F, 3 E, 4 D, 7 C, 6 B, 5 A
04 → 9 ROM DØ3 L
03 → 10 ROM DØ2 L
02 → 11 ROM DØ1 L
01 → 12 ROM DØØ H
MEI → 13

* SEE PARTS LIST FOR PART NO.

TOP VIEW

ADRESS A6	1 G	16	V_{CC} SUPPLY VOLTAGE
ADRESS A5	2 F H	15	A_7 ADRESS
ADRESS A4	3 E I	14	A_8 ADRESS
ADRESS A3	4 D	13	$\overline{CE}$ CHIP ENABLE
ADRESS AO	5 A	12	O1 OUTPUT
ADRESS A1	6 B	11	O2 OUTPUT
ADRESS A2	7 C	10	O3 OUTPUT
GND	8	9	O4 OUTPUT

23-ØØØA9Ø1

3. BLANK PROMS HAVE DEC PART NO. 23-ØØØA9Ø1
4. BIPOLAR 2Ø48 (512 X4) BIT PROMS PIN COMPATIBLE MAY BE USED WITH TRI-STATE OUTPUTS AND ACCESS TIME < 7Ø ns @ 7Ø°C (INTERSIL 5624, MMI 63Ø6, SIGNETICS 82S131, ETC)

ADRESS RANGE	
765ØØØ-765776	LOW ROM
773ØØØ-773776	HIGH ROM

ROM DI5 H → 8881 E8 (11, 12) → 13 AM2 → BUS DI5 L
ROM DI4 H → 8881 E9 (2, 3) → 1 AL1 → BUS DI4 L
ROM DI3 H → 8881 E9 (5, 6) → 4 AL2 → BUS DI3 L
ROM DI2 H → 8881 E8 (2, 3) → 1 AK1 → BUS DI2 L
ROM DI1 H → 8881 E9 (8, 9) → 10 AK2 → BUS DI1 L
ROM DIØ H → 8881 E9 (11, 12) → 13 AJ1 → BUS DIØ L
ROM DØ9 H → 8881 E8 (8, 9) → 10 AJ2 → BUS DØ9 L

+5V

ROM DØ8 L → 7402 E1Ø (8, 9) → 10 → SI-3 (18, 3) → R8 1ØK → 8881 E3 (2, 3) → 1 AH1 → BUS DØ8 L
ROM DØ7 L → 7402 E1Ø (2, 3) → 1 → SI-4 (17, 4) → R4 1ØK → 8881 E2 (2, 3) → 1 AH2 → BUS DØ7 L
ROM DØ6 L → 7402 E1Ø (11, 12) → 13 → SI-5 (16, 5) → R3 1ØK → 8881 E2 (12, 11) → 13 AF1 → BUS DØ6 L
ROM DØ5 L → 7402 E1Ø (5, 6) → 4 → SI-6 (15, 6) → R7 1ØK → 8881 E3 (12, 11) → 13 AF2 → BUS DØ5 L
ROM DØ4 L → 7402 E4 (5, 6) → 4 → SI-7 (14, 7) → R6 1ØK → 8881 E3 (6, 5) → 4 AE1 → BUS DØ4 L
ROM DØ3 L → 7402 E4 (11, 12) → 13 → SI-8 (13, 8) → R5 1ØK → 8881 E2 (6, 5) → 4 AE2 → BUS DØ3 L
ROM DØ2 L → 7402 E4 (8, 9) → 10 → SI-9 (12, 9) → R1 1ØK, R2 1ØK → 8881 E2 (8, 9) → 10 AD1 → BUS DØ2 L
ROM DØ1 L → 7402 E4 (2, 3) → 1 → SI-10 (11, 10) → 8881 E3 (8, 9) → 10 AD2 → BUS DØ1 L
ENAB DATA L
ENAB JUMP L
ENAB DATA H → 8881 E8 (6, 5) → 4 AC1 → BUS DØØ L
ROM DØØ H

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE UNIBUS TERMINATOR/BOOTSTRAP
SIZE D CODE CS NUMBER M93Ø1-Ø-1 REV W
SCALE — SHEET 4 OF 5 DIST.

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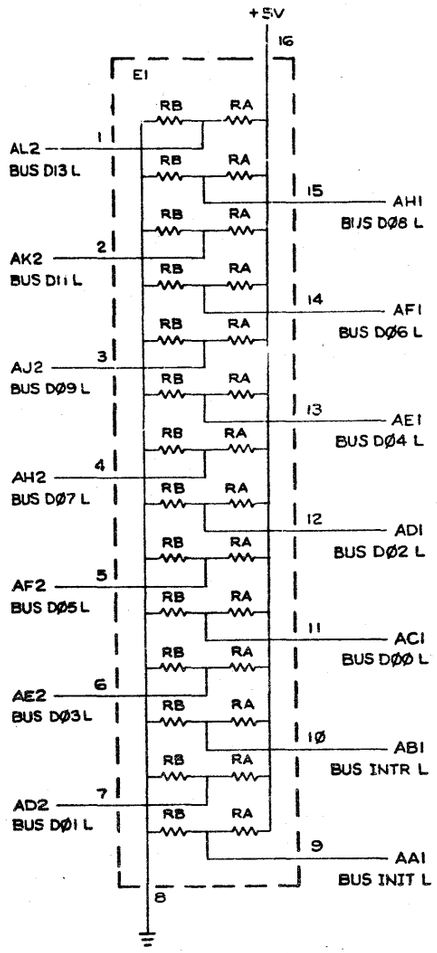
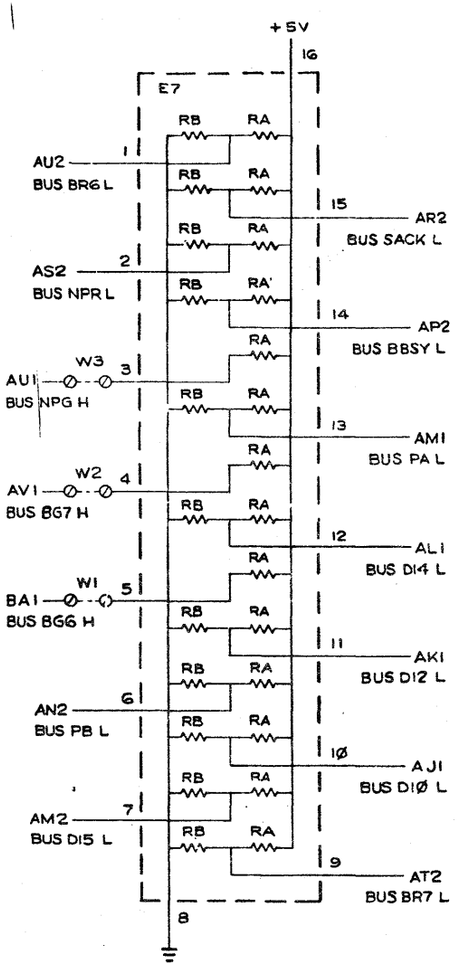
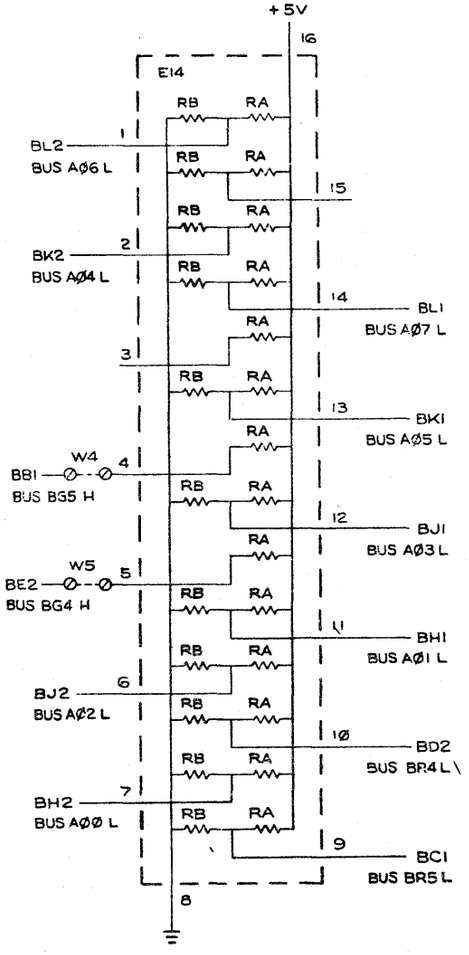
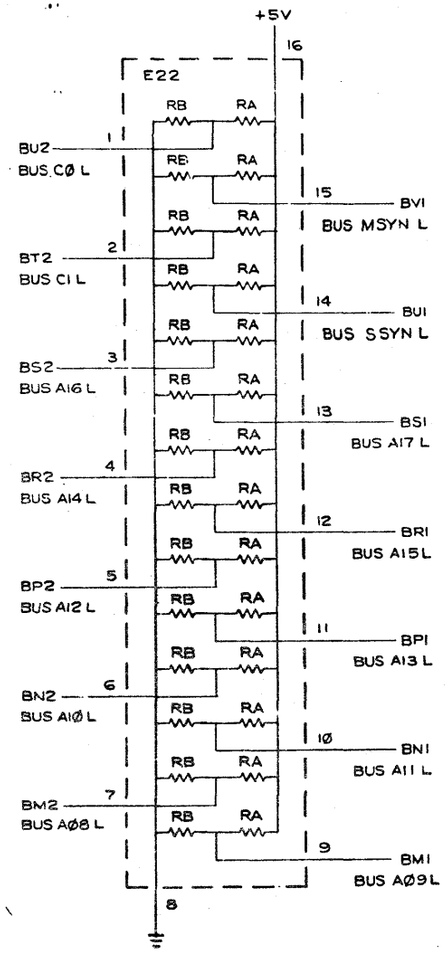
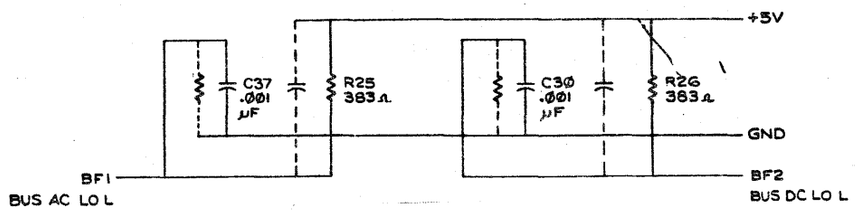








NOTES:
1. ALL RA RESISTORS SHOWN ARE 176.5Ω, ±2%
2. ALL RB RESISTORS SHOWN ARE 375Ω, ±2%
3. JUMPERS WI THRU W5 ARE ONLY INSERTED ON THE M93ØI-YC AND M93ØI-YH IF USED IN AN 11/7Ø COMPUTER.



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
UNIBUS TERMINATOR/BOOTSTRAP	D	CS	M93Ø1-Ø-1	W
SCALE —	SHEET 5 OF 5	DIST.		

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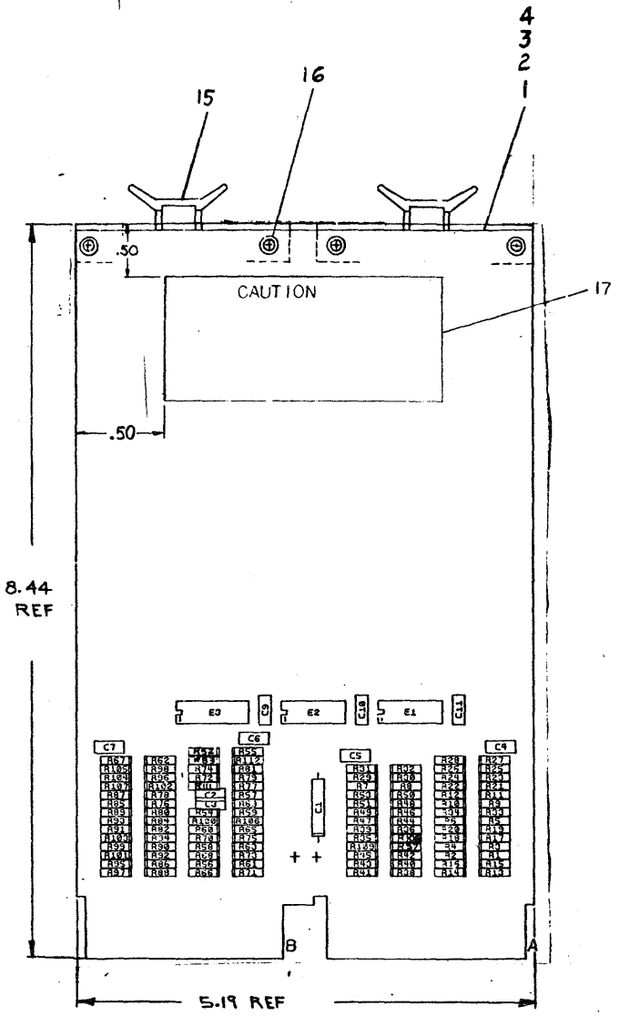
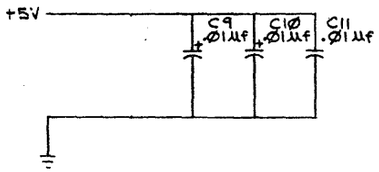
NOTES:

1.) THE FOLLOWING REFERENCE DESIGNATIONS ARE NOT USED: C8, R64, AND R110.





REF		X-Y HOLE COORDINATE HOLE LOCATION	K-CO-M9302-0-4	1
REF		ASSY/DRILLING HOLE LAYOUT	D-AH-M9302-0-5	2
REF		MODULE ECO HISTORY	B-MH-M9302-0-6	3
REF		ETCHED CIRCUIT BOARD	50113T1X	4
3	C9,C10,C11	CAP .01 uf 100V 20% DISC	1001610-01	5
1	C1	CAP 39 uf 10V 10%	1000076	6
~~1~~	~~C8~~	~~CAP 6.8 uf 35V 10%~~	~~1005308~~	~~7~~
4	C4 THRU C7	CAP .22 uf 50V X5	1010274-01	8
2	C2,C3	CAP .001 uf 200V 20% DISC	1000043	9
~~56~~	R2,R4,R6,R8,R10,R12,R14,R16,R19,R20,R22,R24,R26,R28,R30,R32,R34,R36,R38,R40,R42,R44,R46,R48,R50,R54,R58,R58,R60,R62,R66,R69,R70,R72,R74,R76,R78,R80,R82,R84,R86,R88,R90,R92,R94,R98,R98,R100,R102,R57,R64,R37,R52,R93,R108,R111	RES 383 OHM 1/4W 1%	1305125	10
~~54~~	R1,R3,R5,R7,R9,R11,R13,R15,R17,R19,R21,R23,R25,R27,R29,R31,R33,R35,R39,R41,R43,R45,R47,R49,R51,R53,R55,R59,R61,R63,R65,R67,R71,R73,R75,R77,R79,R81,R85,R87,R89,R91,R93,R95,R97,R99,R101,R103 THRU R107,R109,R112	RES 178 OH 1/4W 1%	1311422	11
1	E2	I.C. DEC 7430	1905578	12
1	E1	I.C. DEC 8881	1909705	13
1	E3	I.C. DEC 8837	1911116	14
2		HANDED, FLIP-CHIP (MAGENTA)	9008337-8	15
4		EYELETS	9006732	16
1		DECAL	B-DC-7416791-0-0	17

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.

PARTS LIST

IC DEC 8837	8	16
IC TYPE	GND	+5V

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

IC PIN LOCATIONS

FIRST USED ON OPTION MODEL

ETCH BOARD REV B

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

SEMICONDUCTOR CONVERSION CHART

REV	CHANGE NO.	CHK
B	M9302-00001	T.DUBANIEWICZ 6-21-75
C	M9302-00002	R.BARRY 14-JUNE-76
D	M9302-00002	B.BERNSTEIN 23-DEC-77

REVISIONS

DRN. J. Nagle DATE 10/9/74
CHK'D. [signature] DATE 1-13-75
ENG. [signature] DATE 1-25-75
PROJ. ENG. [signature] DATE 3-25-75
PROD. [signature] DATE 3/25/75
NEXT HIGHER ASSY
SCALE Full
SHEET 1 OF 2

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

TITLE
UNIBUS TERMINATOR

SIZE D | CODE DCS | NUMBER M9302-0-1 | REV. D | DIST.

DCS M9302-0-1 D

DEC FORM NO. DRD 133 B

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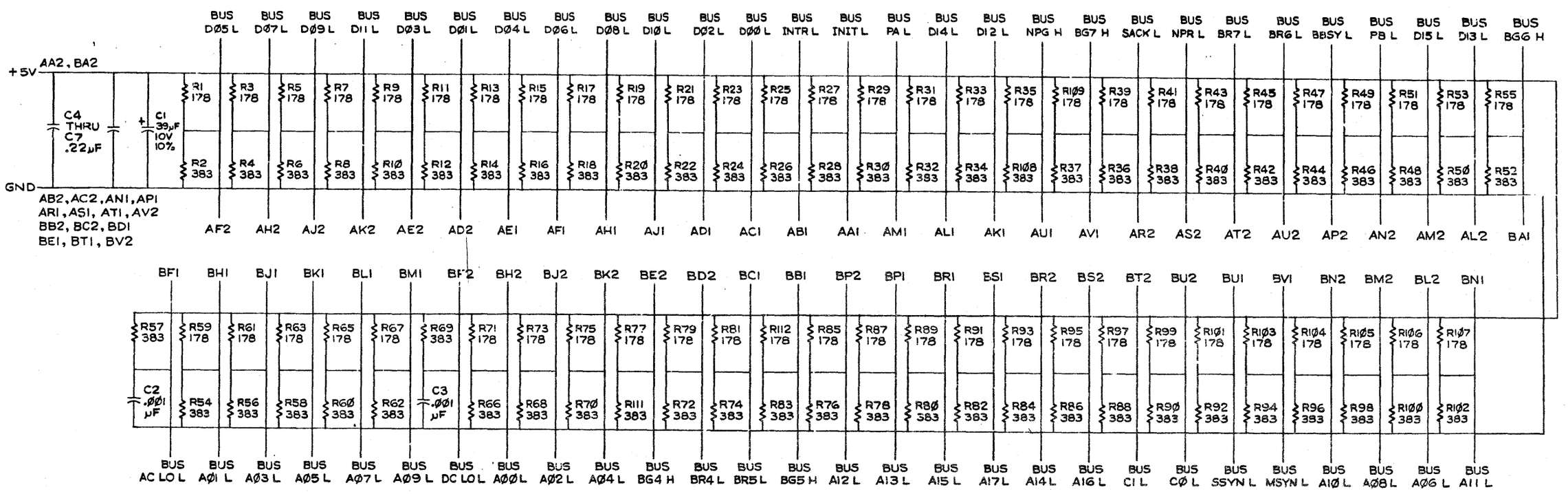
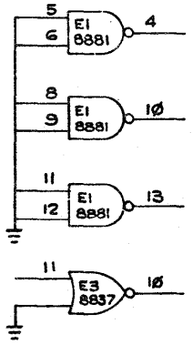
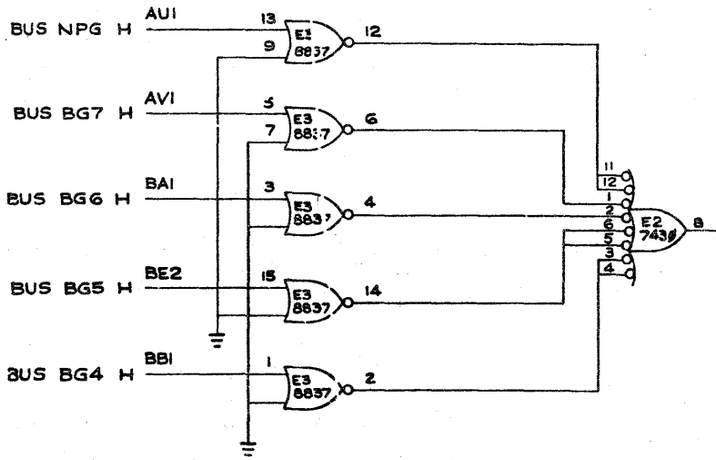


SPARES





REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
UNIBUS TERMINATOR	D	CS	M93Ø2-Ø-1	D
SCALE	SHEET 2 OF 2	DIST.		

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FIELD MAINTENANCE PRINT SET

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TABLE OF CONTENTS

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

UNIT VARIATIONS COVERED BY THIS PRINT SET
KY11-LA

KY11-LA

Field Maintenance Print Set

Digital Equipment Corporation

PRINT SET ORDER NO.
MPØØØ17

REVISIONS		
REV.	CHG. NO.	DATE
A	KY11-LA-3	5-77

USED ON OPTION/MODEL	
11/Ø4-AA	11/Ø4-DC
11/Ø4-AB	11/Ø4-DD
11/Ø4-AC	11/Ø4-EC
11/Ø4-AD	11/Ø4-ED
11/Ø4-BA	
11/Ø4-BB	
11/Ø4-BC	
11/Ø4-BD	

SHEET I OF 1

DRN. D. HEALY	DATE 9/29/75	digital
CHK'D D. HEALY	DATE 9/29/75	TITLE: FIELD MAINTENANCE PRINT SET KY11-LA
PROJ. ENG. R. Barry	DATE 10-22-75	SIZE B · CODE TC · NUMBER KY11-LA-1 · REV. A
FIELD SERV.	DATE 10-22-75	DIST.

EN-01124-16-9M-78-(3271)

DRB 124

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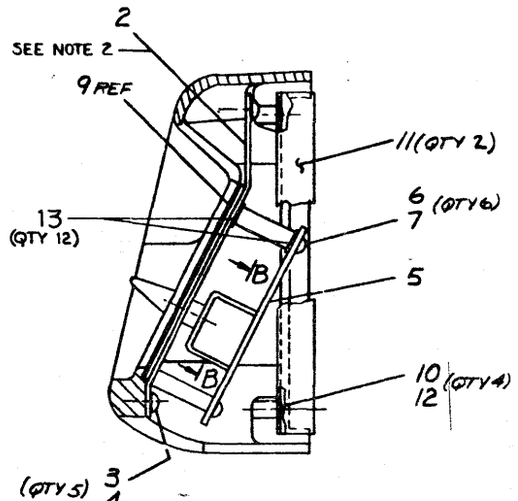
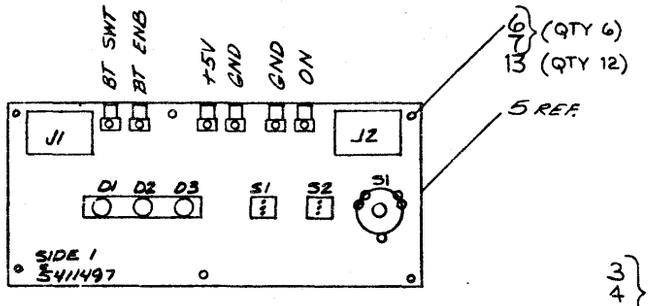
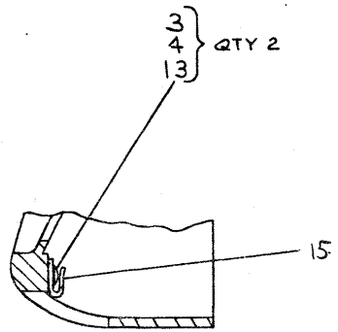


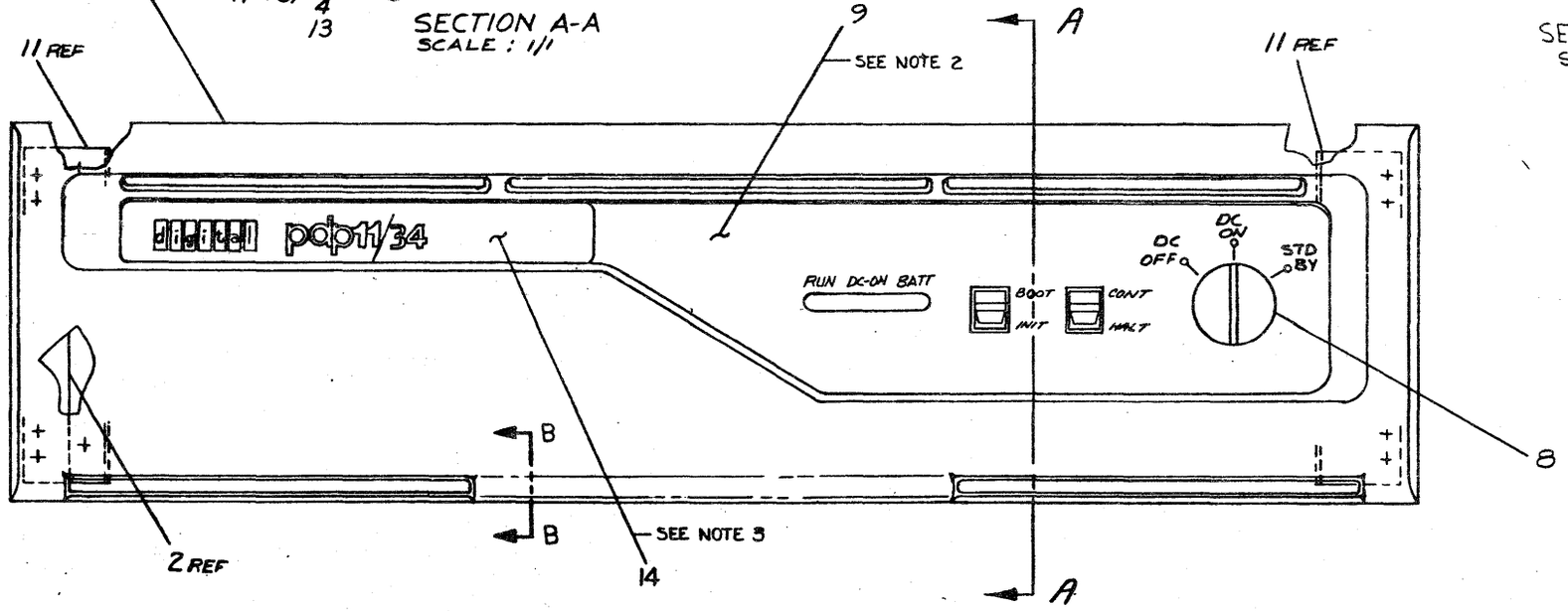
SECTION A-A
SCALE : 1/1



VIEW B-B
SCALE: NONE



SECTION B-B
SCALE : NONE



NOTES

1. PART NO. 7413657-1-0 MAY BE USED IF 7415599 IS NOT AVAILABLE.
2. PRIOR TO ASSY. OF CONTROL PANEL TO SUPPORT PANEL, CLEAN ITEM 2 THOROUGHLY. AFTER CLEANING, APPLY THE ADHESIVE TRANSFER TAPE TO ITEM 2 ONLY TO AVOID ATTACHING THE SILK SCREENING. POSITION ITEM 9 IN PLACE AND BOND.
3. OVERLAY DECAL TO BE SHIPPED LOOSE PIECE WITH THE UNIT AND ADDED AS SHOWN IF REQUIRED AT F.A. & T.
4. ITEM #16 & #19 NOT SHOWN.
5. ITEMS NO'S 1, 11 AND 16 ARE ADDED AT FA & T.

SEE NOTE 4	1	COVER, PROTECTIVE SAFETY	C-MD-7425410-0-0	19
	A/R	TAPE, ADHESIVE TRANSFER	9009210	18
~~(SEE NOTE 2)~~	~~A/R~~	~~ADHESIVE, SPRAY~~	~~9008907~~	~~17~~
SEE NOTES 4&5	REF	BEZEL, COVER PROTECTIVE	D-MD-7415656-0-0	16
	1	BRACE, SUPPORT PNL	7419008	15
	1	OVERLAY, DECAL 11/34	A-PS-3613359-0-1	14
	19	WASHER, FLAT .375x.187x.036	9006660	13
	4	SPACER, HEX 1/4x.38 LG	9006802	12
SEE NOTE 5	REF	BRKT, FILTER SUPPORT	CMD-7414962-0-0	11
	4	SCR, PNH FL HD #8-32x.62	9006040-2	10
	1	PANEL, CONTROL, CONSOLE	D-IA-7413502-0-0	9
	1	KNOB, ROTARY SWITCH	1212570	8
	6	SCR PNH HD PAN #8-32x.38	9006022-1	7
	6	SPACER #6-32x.37	9006861	6
	1	CIRCUIT ETCH BD KYII-LA	D-ES-5411497-0-1	5
	7	SCR FILL HD PAN #8-32x.31	9009799-00	4
	7	WASHER, SPRING LOCK #8	9006690	3
	1	SUPPORT, PANEL	D-MD-7413501-0-0	2
SEE NOTES 1&5	REF	BEZEL 11/04	E-MD-7415599-0-0	1
		DESCRIPTION	DWG./PART NO.	ITEM NO.

REVISIONS			
CHK	CHANGE NO.	REV.	
EZ	KYII-LA-00001	A	B. COURTEMANCHE 4 Jan 77
D. Chrisman	KYII-LA-00002	B	P. PORRECA 5 Jan 77
D. Chrisman	KYII-LA-00003	C	P. LORUSSO 5 April 77
P. Porreca	KYII-LA-00003	D	P. PORRECA 31 MAY 77
D. Rancker	KYII-LA-00004	E	E. CROCKER 8 DEC 77
D. Barry	KYII-LA-TW0005	F	E. CROCKER 15 AUG 78
E. Crocker	KYII-LA-TW0006	H	E. CROCKER 6 FEB 79
E. Crocker	KYII-LA-TW007	J	B. CRAHM 9 MAR 81

THIRD ANGLE PROJECTION	DRN		9/24/75
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D		9/24/75
DO NOT SCALE DWG	ENG		9/24/75
	PROJ. ENG.		9/24/75
	PROD		
	NEXT HIGHER ASSY.		
MATERIAL SEE PARTS LIST	B-DD-KYII-LA		
FINISH	SCALE FULL		
	SHEET 1 OF 1		

FIRST USED ON 11/04

digital

TITLE
CONSOLE, OPER, ASSEMBLY

SIZE	CODE	NUMBER	REV.
D	UA	KYII-LA-Ø	J
DIST.			

DEC FORM NO. DRD 100-C

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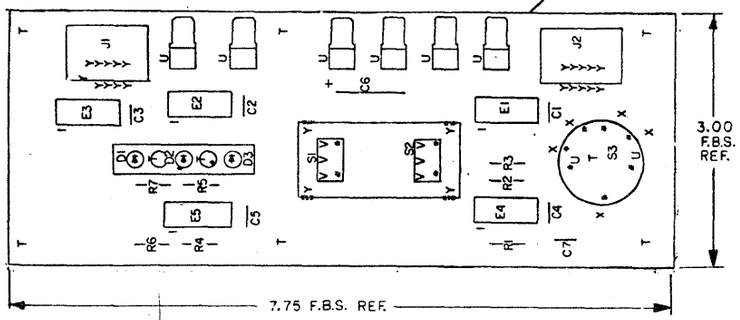
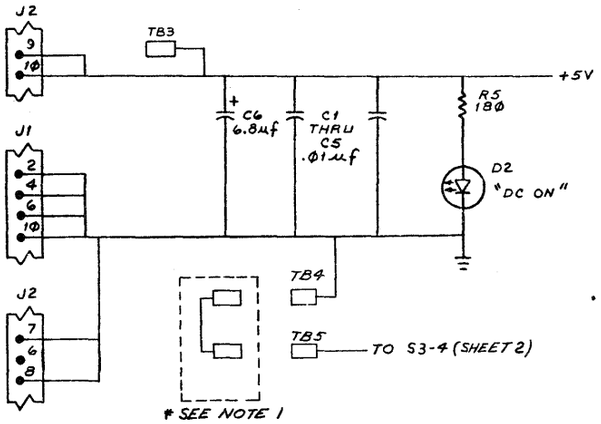
NOTES:

1. IN BA11-L BOXES, JUMPER MUST BE INSTALLED BETWEEN TB4 AND TB5. THE JUMPER IS ON PDP 1104 OR PDP 1134 PARTS LIST.
2. PART NO. 1001610-00 AND PART NO. 1001610-01 ARE INTERCHANGEABLE





QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
REF		X-Y COORDINATE HOLE LOCATION	H-CO-5411497 Ø-1	1
REF		ASSY/DRILLING HOLE LAYOUT	D-AH-5411497-Ø-1	2
REF		MODULE ECO HISTORY	B-MH-5411497-Ø-1	3
1		ETCHED CIRCUIT BOARD	5011496	4
5	C1 THRU C5	CAPACITOR, .Ø1uf, 100V	1001610-01	5
1	C6	CAPACITOR, 6.8uf, 35V, 10%	1005306	6
1	C7	CAPACITOR, 1000PF, 100V	1000042	7
3	D1, D2, D3	DIODE, LIGHT EMITTING	1110864	8
1	S2	SWITCH, TOGGLE	1210840	9
1	S1	SWITCH, MOMENTARY	1210841	10
1	S3	SWITCH, ROTARY	1212560	11
1		HOLDER, TRIPLE L.E.D.	1210940-02	12
2	J1, J2	CONNECTOR, 10 PTN	1209941-05	13
2	R4, R6	RESISTOR, 1K, 1/4W, 5%	1300365	14
3	R1, R5, R7	RESISTOR, 180Ω, 1/4W, 5%	1301322	15
1	E5	I.C. DEC 7474	1905547	16
1	E3	I.C. DEC 8640	1911469	17
2	E1, E2	I.C. DEC 8881	1909705	18
1	E4	I.C. DEC 7402	1909004	19
6		TERMINAL, QUICK DISCONNECT	9007112	20
6		EYELET	9009000	21
2		SCREW, SELF-TAPING, #4-40X.31 LG	9009236	22
1		PLATE, SWITCH MTG.	7413505-0-0	23
2	(S1), (S2)	KNOB	1210786-	24
				25
				26
2	R2, R3	RESISTOR 330, 1/4W, 5%	1300295	27
~~A/R~~		~~WIRE, BUS #20~~	~~9107560-02~~	~~28~~
~~A/R~~		~~TUBING, NATURAL #20~~	~~9107677-01~~	~~29~~

PARTS LIST

FIRST USED ON OPTION MODEL: 11/Ø4

ETCH BOARD REV. F

I.C. DEC 8640	1	8
IC TYPE	GND	+5V

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

IC PIN LOCATIONS

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

SEMICONDUCTOR CONVERSION CHART

REV.	REVISIONS	CHANGE NO.	CHK.
F	5411497-00002	#3548 77	
	5411497-00001		

11-11-77 BRUCE CRAMM Built Q Hunt 23 Aug 77 H 5411497-00003 D. BARRY 23 AUG 77

R. BARRY

DRN. J. Vincent 4-23-75
CHKD. 5-1-75
ENG. 5/14/75
PROJ. ENG. 5/14/75
PROD. DATE
NEXT HIGHER ASSY
SCALE
SHEET 1 OF 2

digital

TITLE: KY11-LA

SIZE D | CODE CS | NUMBER 5411497-Ø-1 | REV. H

DIST.

DEC FORM NO. DRD 135.B

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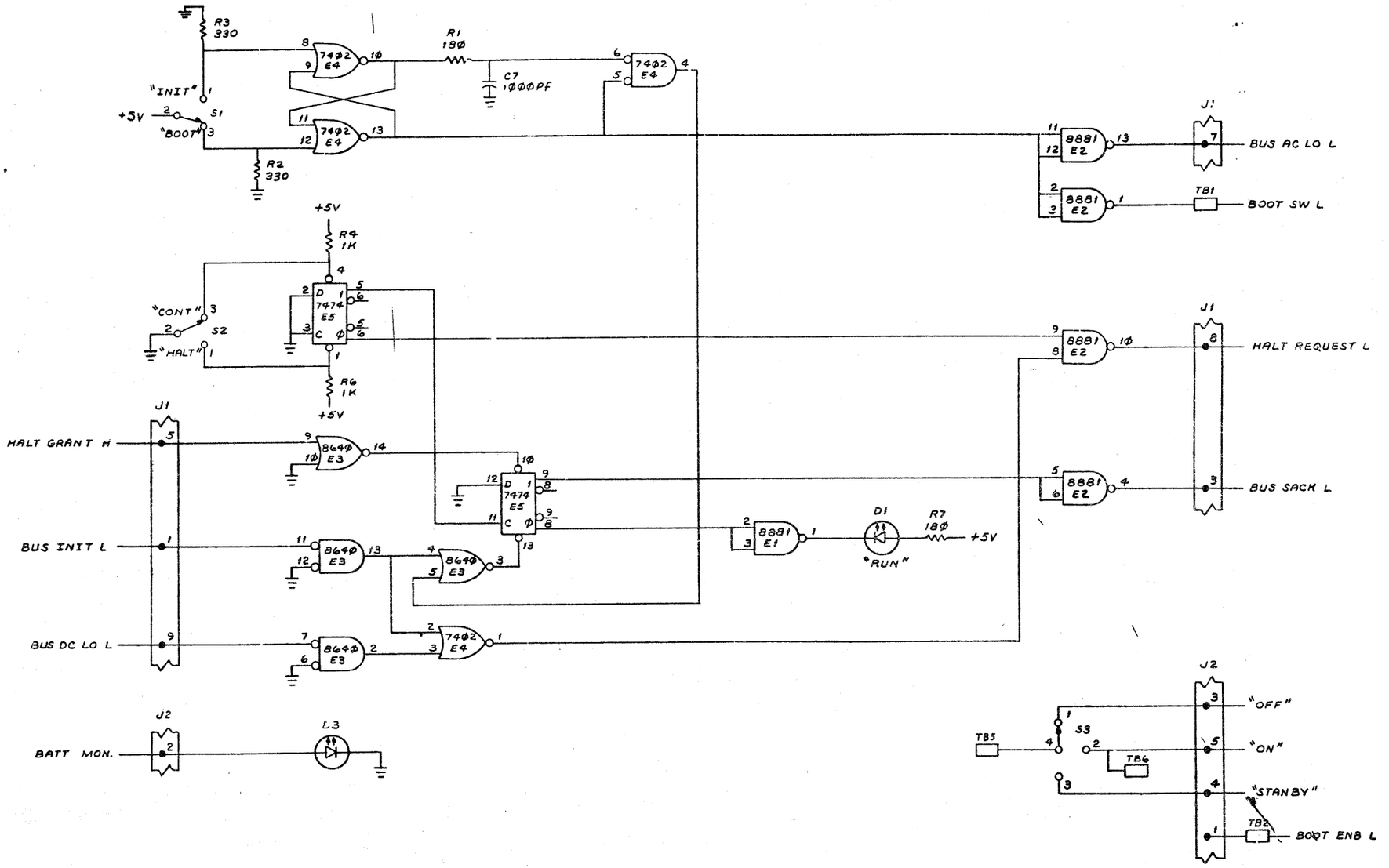

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
KY11-LA	D	CS	5411497-0-1	H
SCALE —	SHEET 2 OF 2	DIST.		

DEC FORM NO. DRD 138

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

DRAWING DIRECTORY

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~~CUSTOMER PRINT SET INDEX~~

~~THIS IS PRINT SET~~

SEQUENCE		SEQUENCE	

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

UNIT VARIATIONS

VAR	TITLE	PRINT SET
KY11-LA	OPER TURNKEY CONSOLE	X

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

USED ON OPTION/MODEL	
11/Ø4-AA	11/Ø4-BD
11/Ø4-AB	11/Ø4-DC
11/Ø4-AC	11/Ø4-DD
11/Ø4-AD	11/Ø4-EC
11/Ø4-BA	11/Ø4-ED
11/Ø4-BB	
11/Ø4-BC	

SHEET 1 OF 2

DRN. G. MARINI	DATE 9/16/75	TITLE: DRAWING DIRECTORY KY11-LA
CHK'D. D. HEALY	DATE 9/30/75	
PROJ ENG. R. Barry	DATE 10-22-75	
PROD. R.K. Peterson	DATE 10/24/75	SIZE B; CODE DD; NUMBER KY11-LA; REV E
~~FIELD SERV.~~ —H—	~~DATE~~ —H—	DIST

EN-C1032-1A-16-R972-(325)

ELECTRICAL (SECTION 1)

CUSTOMER PRINT SET	M/F/C	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO / FILE DATE
		1	D-UA-KY11-LA-Ø		1	CONSOLE OPER ASSY	
		3	D-CS-5411497-0-1		2	CIRCUIT ETCH BOARD KY11-LA	

MECHANICAL (SECTION 2)

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

CUSTOMER PRINT SET CODES

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

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

digital EN-01062-2B-16-R972-(325)

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FIELD MAINTENANCE PRINT SET

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TABLE OF CONTENTS

FIELD MAINT. PRINT SET KY11-LB	B-TC-KY11-LB-1
CONSOLE ASSY PROGRAMMERS	D-UA-KY11-LB-Ø
CIRCUIT ETCH BOARD KY11-LB	D-CS-5411800-0-1
CIRCUIT, INTERFACE, PROG. CONSOLE	D-CS-M7859-Ø-1
DRAWING DIRECTORY	B-DD-KY11-LB

UNIT VARIATIONS COVERED BY THIS PRINT SET
KY11-LB

KY11-LB

Field Maintenance Print Set

Digital Equipment Corporation

PRINT SET ORDER NO.
MPØØØ15

REVISIONS		
REV.	CHG. NO.	DATE
A	KY11-LB-3	5-24-77

USED ON OPTION/MODEL	
11/34	

SHEET I OF 1

DRN.	D. HEALY	DATE 11/5/75
CHK'D	D. HEALY	DATE 11/6/75
PROJ. ENG.	R.B PRATT	DATE 12-11-75
FIELD SERV.		DATE 1-5-76

digital

TITLE: FIELD MAINTENANCE PRINT SET KY11-LB

SIZE	CODE	NUMBER	REV.
B	TC	KY11-LB-1	A

DIST.

EN-01124-9-N675-1271

DRB 124

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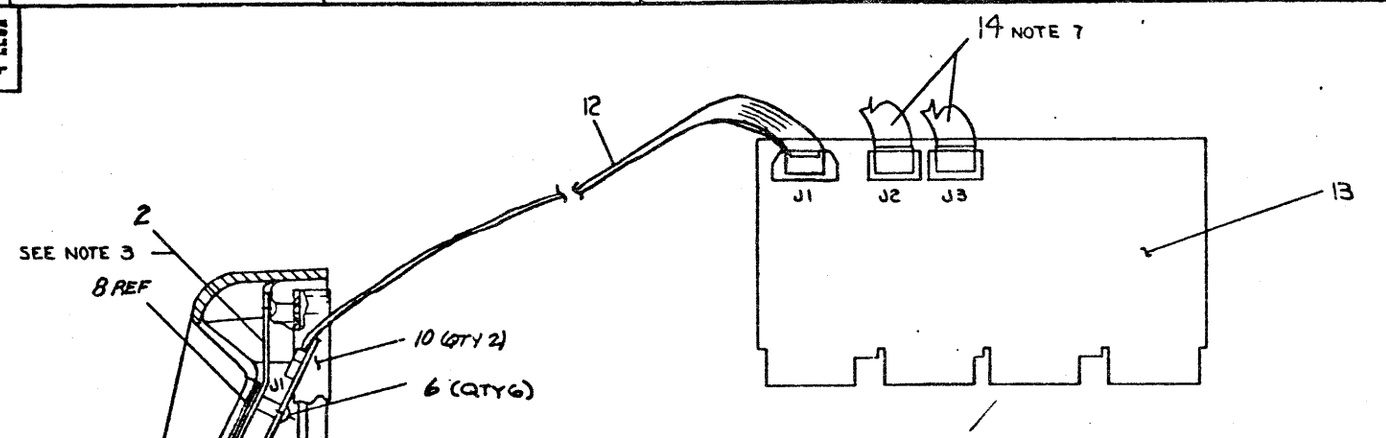
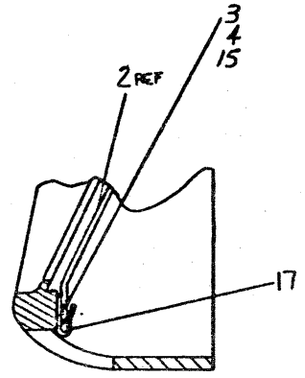
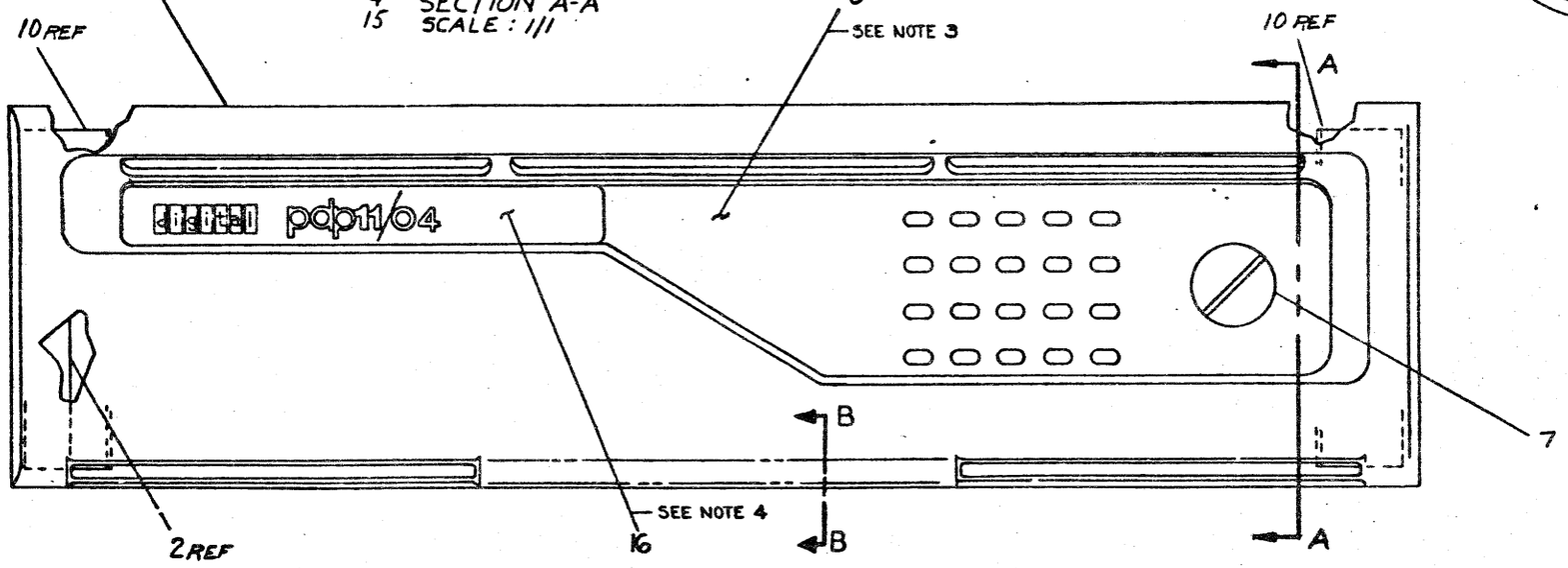


SECTION A-A
SCALE: 1/1



SECTION B-B
SCALE: NONE



NOTES:

1. ITEM #14 NOT SHOWN ON THIS ASSY, TO BE SUPPLIED AS LOOSE PIECE - 2 REQ'D
2. PART #7413657-10 MAY BE USED WHEN 7415599 IS NOT AVAILABLE.
3. PRIOR TO ASSY OF PROGRAMMERS PANEL TO SUPPORT PANEL, CLEAN ITEM 2 THOROUGHLY. AFTER CLEANING, APPLY THE ADHESIVE TRANSFER TAPE TO ITEM 2 ONLY TO AVOID ATTACHING THE SILK SCREENING. POSITION ITEM 8 IN PLACE AND BOND.
4. OVERLAY DECAL TO BE SHIPPED LOOSE PIECE WITH THE UNIT AND ADDED AS SHOWN IF REQUIRED AT FA&T.
5. ITEMS NO. 1 AND 10 ARE ADDED AT FA&T.
6. ITEM NO. 19, NOT SHOWN.
7. REFER TO 11/04, 1134A, OR FP11-A DOCUMENTATION FOR CONNECT PLACEMENT OF CABLES.

CAUTION: OFF SHEET PARTS LIST
REFER TO K-PL-KY11-LB-DBP

QTY	DESCRIPTION	DWG./PART NO.	ITEM NO.
AR	TAPE, ADHESIVE TRANSFER	9009210	18
1	BRACE, SUPPORT PAN.	C-MD-7413008-00	17
1	OVERLAY, DECAL 11/04	A-PS-3613359-0-0	16
7	WASHER, FLAT .375×.187×.036	9006660	15
2	CABLE CONS TO BACKPLANE	C-IA-7011411-10-0	14
1	INTERFACE, PROG CNSL	D-CS-M7859-0-1	13
1	CABLE, CNSL TO M7859	D-IA-7012214-0-0	12
4	SPACER, HEX 1/4 × .38 L	9006802	11
SEE NOTE 5 REF	BRKT, FILTER SUPPORT	C-MD-7414962-0-0	10
4	SCREW, PHIL FL HD 8-32 × .62	9006040-2	9
1	PANEL, PROGRAMMERS	D-IA-7415047-0-0	8
1	KNOB, ROTARY	12X2570	7
6	SCREW, PHIL PAN HD 6-32 × .38	9006022-1	6
1	CIRCUIT BOARD KY11-LB	D-CS-5411800-0-1	5
7	SCREW, PHIL PAN HD 8-32 × .31	9009799-00	4
7	WASHER, SPRING LOCK	9006690	3
1	SUPPORT, PANEL	D-IA-7415048-0-0	2
SEE NOTE 5 REF	BEZEL 11/04	C-MD-7415599-0-0	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
ANGLES ±0° 30'
CLASS OF ACCURACY (CHECK ONE)
SURFACE QUALITY (CHECK ONE)
MICROINCHES
MEDIUM
PREFERRED

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL —

FINISH —

DRN. [illegible] 4/74
CHK. [illegible] 4/74
ENG. [illegible] 4/74
PROJ. ENG. [illegible] 4/74
PROD. [illegible] 5/74

NEXT HIGHER ASSY. B-DD-KY11-LB

SCALE —

SHEET 1 OF 1

FIRST USED ON 11/34

digital

TITLE
CONSOLE ASSY
PROGRAMMERS

SIZE D | CODE UA | NUMBER KY11-LB-Ø | REV. H

DIST.

REVISIONS			
A	CHANGE NO. KY11-LB-0000301	A	
B	KY11-LB-0000201	B	
C	KY11-LB-TW0004	E	
D	KY11-LB-0000301	D	
E	KY11-LB-TW0005	F	
F	KY11-LB-TW0006	G	
G	KY11-LB-TW0003	H	
H	KY11-LB-TW0001	H	

H.QUARTEMANCHE	
P.FORBES	
P.FORBES	
P.FORBES	
E.CRICKER	
E.CRICKER	
E.GNOKER	
S.BOYLE	

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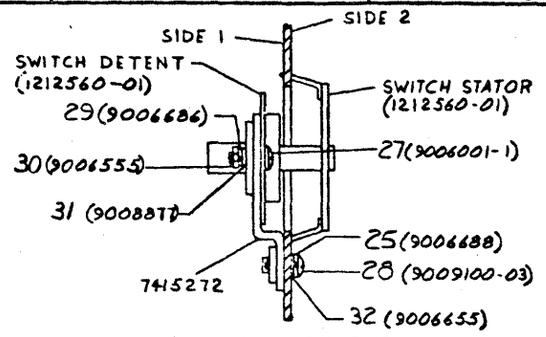
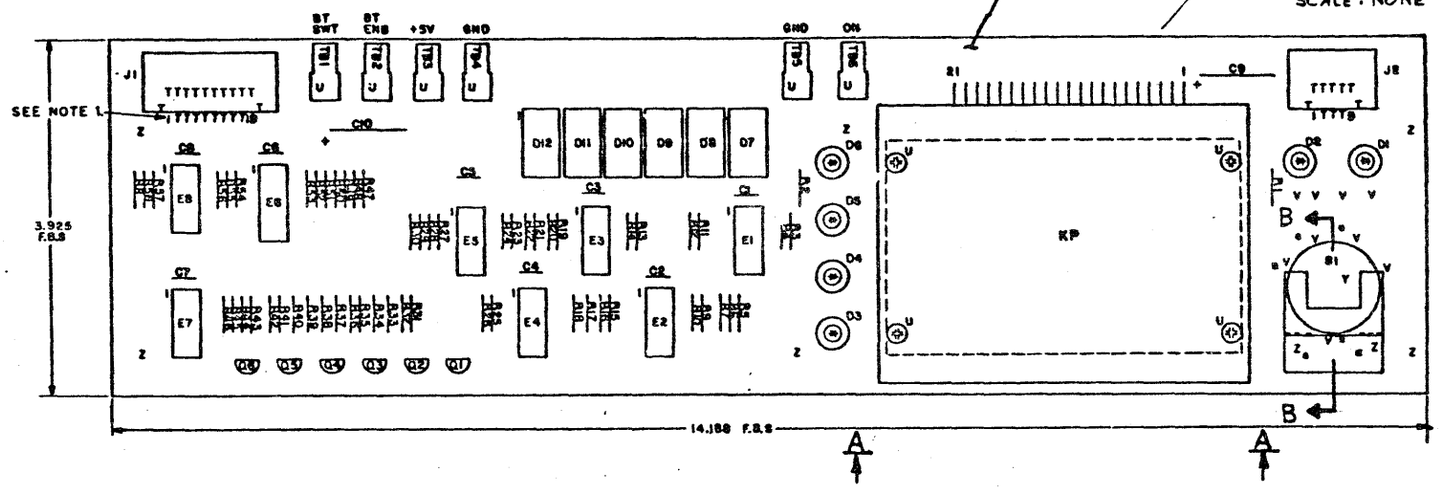
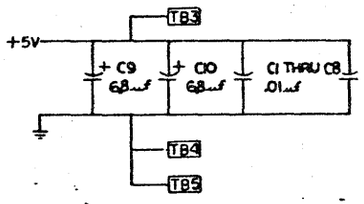
NOTES:

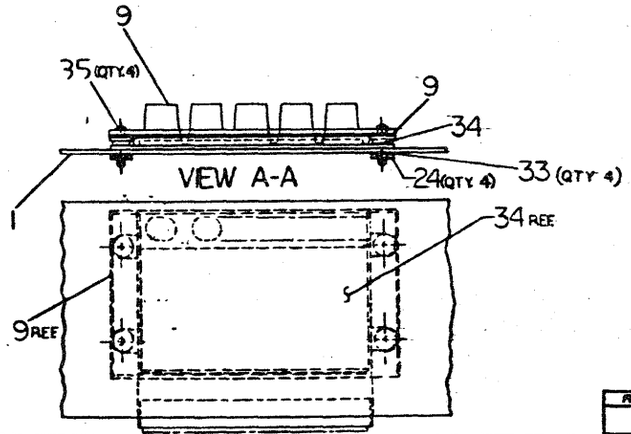
1. ARROW ON BOARD IS TO LINE UP WITH ARROW ON CONNECTOR (J1 & J2).



SECTION B-B
SCALE: NONE







REF		X-Y COORDINATE HOLE LOCATION	K-CO-5411800-0-4	1
REF		ASSY/DRILLING HOLE LAYOUT	D-AH-5411800-0-5	2
REF		MODULE ECO HISTORY	B-MH-5411800-0-B	3
1		ETCHED CIRCUIT BOARD	5011739	4
8	C1 THRU C8	CAPACITOR, .01uf, 100V, 20%	1001810-01	5
2	C9,C10	CAPACITOR, 6.8uf, 35 VDC, 10%	1005306	6
8	D1 THRU D8	DIODE, LIGHT EMITTING	1110884	7
8	D7 THRU D12	7 SEGMENT, DISPLAY	1911297	8
1	J1	CONNECTOR, 20 PIN	1209941-06	9
1	J2	CONNECTOR, 10 PIN	1209941-05	10
1	S1	SWITCH, ROTARY, 3 POSITION	1212560-01	11
1	KP	KEYPAD	1711858	12
6	D7 THRU D12	SOCKET, 14 PIN	1211813-01	13
12	R1,R2,R5,R6,R7,R47 THRU R53	RESISTOR, 150 OHM, 1/4W, 5%	1300258	14
10	R32,R34,R36,R38,R40,R42,R27 THRU R30	RESISTOR, 1K, 1/4W, 5%	1300385	15
8	R31,R33,R35,R37,R39,R41	RESISTOR, 820 OHM, 1/4W, 5%	1303178	16
30	R3,R4,R8 THRU R26,R43 THRU R46,R54 THRU R58	RESISTOR, 10K, 1/4W, 5%	1300479	17
8	Q1 THRU Q8	TRANSISTOR, MPSA55	1510706	18
1	E8	I.C. DEC 7404	1909688	19
1	E7	I.C. DEC 7417	1909829	20
1	E6	I.C. DEC 7447A	1911295	21
5	E1 THRU E5	I.C. DEC 8881	1909705	22
8		EYELET	9009008	23
8	TB1 THRU TB8	TERMINAL, QUICK DISCONNECT	9007112	24
6		WASHER, SHOULDER	9008318	25
4		SCREW, PHILLIPS #4-40 x 9/16 LG	9008033-01	26
4		NUT, KEP #4-40	9006587	27
2		WASHER, LOCK #4	9006688	28
1		BRACKET, SWITCH	7415272	29
2		SCREW, PHILLIPS #4-40 X 1/4 LG	9009100-03	30
2		SCREW PHILLIPS #2-56 X 1/4LG	9006001-1	31
1		RETAIN, KEY BOARD ASSY	C-IA-703377-0-0	32
2		WASHER, LOCK #2	9006686	33
2		NUT, HEX	9006555	34
2		WASHER, FLAT #2	9008877	35
2		WASHER, FLAT #4	9006655	36
4		WASHER, NYLON	9006706	37

CAUTION: OFF-SHEET PARTS
LIST K-PL-5411800-0-DBP

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.

PARTS LIST

ETCH BOARD REV. C D

I.C. DEC 7447A	8	16
IC TYPE	GND	+5V

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

IC PIN LOCATIONS

FIRST USED ON OPTION MODEL

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

SEMICONDUCTOR CONVERSION CHART

REV.	CHANGE NO.	REVISIONS
J	5411800-MLO006	D. ELLISON 01-SEP-83
H	5411800-IW005	S. HOYLE 4-APR-80
F	5411800-ML0041	S. HOYLE 3-Oct-79
E	5411800-IWW03	E. CROUSER 27-JUL-79
D	5411800-00002	B. PRATT 11-DEC-78
C	5411800-00001	B. BERNSTEIN 15-FEB-78

DSN J. Ellison 9-19-78
CHECK J. Rigazio 11-20-78
ENG T. Bolt 11-28-78
PROJ. ENG. T. Bolt 11-28-78
PROG. K. J. MacLea 9-19-78
NEXT HIGHER ASSY
SCALE —
SHEET 1 OF 3

digital

TITLE KY11-LB (CONSOLE BOARD)

SIZE D | CODE CS | NUMBER 5411800-0-1 | REV. J

DIST.

DEC FORM NO. SMD 138.0

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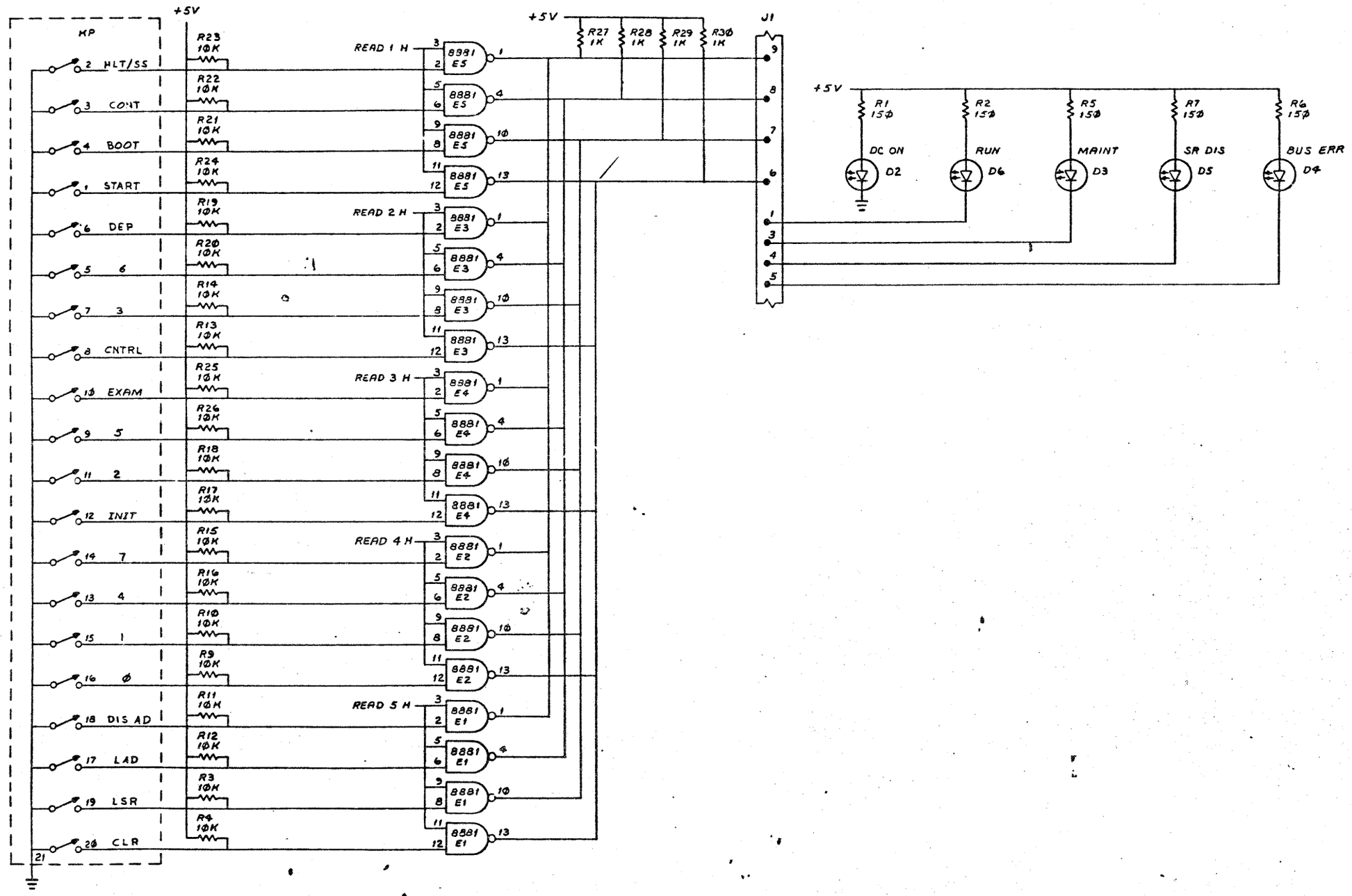

REVISIONS		
CHK	CHANGE NO.	REV

TITLE	SIZE	CODE	NUMBER	REV.
KY11-LB (CONSOLE BOARD)	D	CS	5411800-0-1	J
SCALE —/— SHEET 2 OF 3	DIST.			

DEC FORM NO. DRD 128

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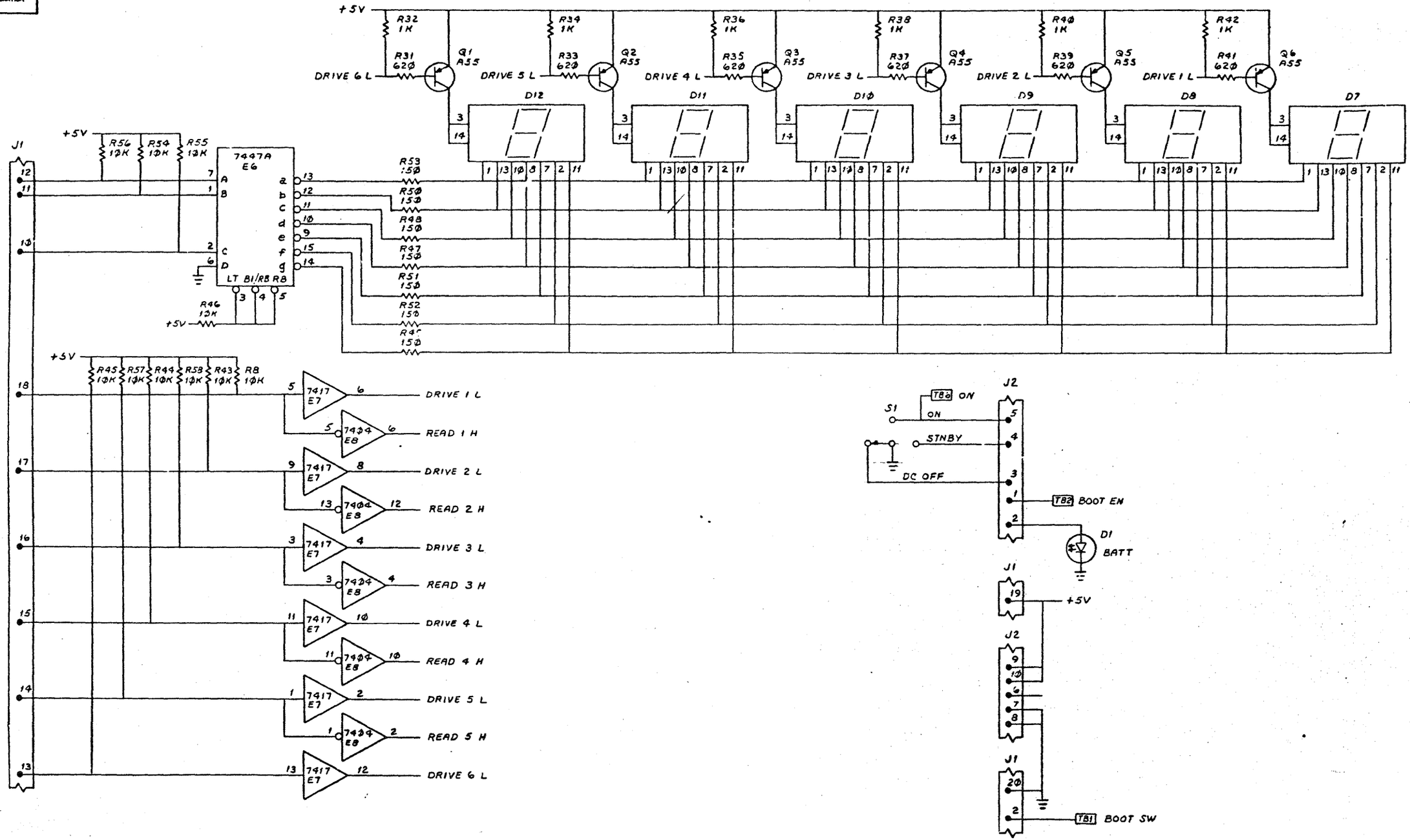

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
KY11-LB (CONSOLE BOARD)	D	CS	5411800-0-1	J
SCALE —	SHEET 3 OF 3	DIST.		

DEC FORM NO. DRO 138

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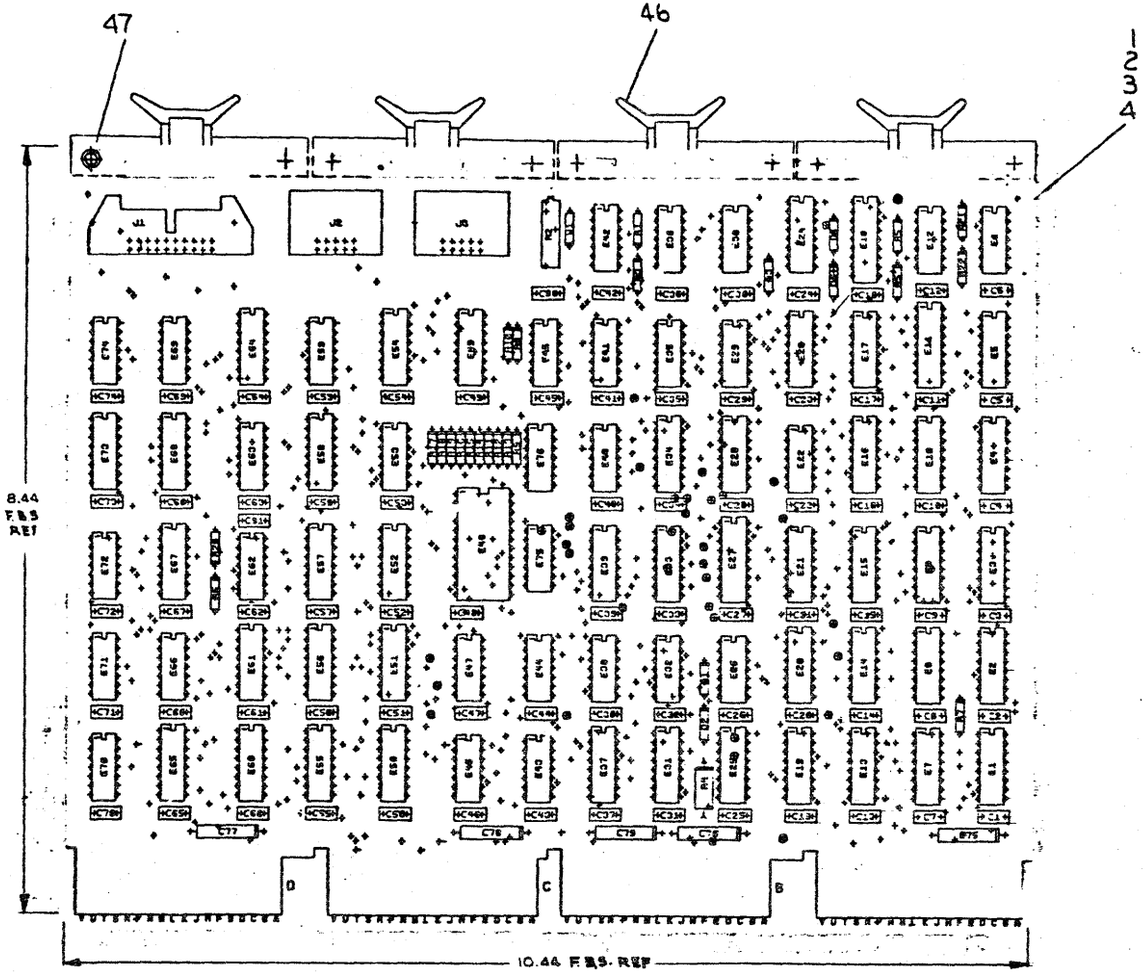
NOTES:

4	E14,20,31,37	IC DEC 74173	1911330	52	REF
1	W1	JUMPER INSULATED	9009185	53	REF



QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
REF		X-Y COORDINATE HOLE LOCATION	X-CO-M7859-0-4	1
REF		ASSY. DRILLING HOLE LAYOUT	D-AH-M7859-0-5	2
REF		MODULE ECO HISTORY	B-MH-M7859-0-6	3
1		ETCHED CIRCUIT BOARD	5011758	4
1	C80	CAPACITOR, 270pf, 100V, 5%	1000022	5
1	C81	CAPACITOR, 470pf, 100V, 5%	1000024	6
74	C1 THRU C74	CAPACITOR, .01uf, 100V, 20% DISC	1001610-01	7
5	C75 THRU C79	CAPACITOR, 6.8uf, 35V, 10%	1005308	8
1	D2	DIODE, IN748 A	1100122	9
4	D3 THRU D8	DIODE, D872	1105275	10
1	D1	DIODE, IN751 A	1110994	11
2	J2,J3	CONNECTOR, 10 PIN, 3M	1209941-05	12
1	J1	CONNECTOR, 20 PIN, 3M	1209941-06	13
1	E13	SOCKET I.C.	1211868	14
1	R20	RESISTOR, 100 OHM, 1/4W, 5%	1300229	15
1	R4	RESISTOR, 120 OHM, 1/2W, 5%	1300243	16
1	R21	RESISTOR, 220 OHM, 1/4W, 5%	1300277	17
3	R5,R8,R7	RESISTOR, 1K, 1/4W, 5%	1300365	18
12	R8 THRU R19	RESISTOR, 10K, 1/4W, 5%	1300479	19
1	R22	RESISTOR, 750 OHM, 1/4W, 5%	1301401	20
1	R3	RESISTOR, 8.8K, 1/4W, 5%	1301423	21
1	R1	RESISTOR, 5.6K, 1/4W, 5%	1301874	22
1	R2	RESISTOR, 10K, 3/4W, 10% POT 73 PR	1309143-10	23
4	E8,E12,E83,E75	I.C. DEC 7474	1905547	24
2	E29,E30	I.C. DEC 7402	1909004	25
1	E38	I.C. DEC 7493	1909054	26
2	E40,E47	I.C. DEC 7404	1909688	27
1	E48	I.C. DEC 74154	1909701	28
1	E32	I.C. DEC 314	1909704	29
2	E43,E82	I.C. DEC 9601	1909705	30
3	E68,E69,E72	I.C. DEC 7417	1909929	31
1	E23	I.C. DEC 7442	1910048	32
3	E26,E53,E76	I.C. DEC 7408	1910155	33
16	E2,E4,E5,E9,E13,E15,E19, E28,E51,E52,E58,E57,E64, E67,E68,E73	I.C. DEC 74175	1910851	34
10	E35, ,E38, E41,E44,E45,E48,E59,E70, E71,E74	I.C. DEC 8093	1910837	35
1	E22	I.C. DEC 7427	1910878	36
1	E42	I.C. DEC MC4024 P	1911038	37
4	E1,E24,E49,E54	I.C. DEC 8837	1911118	38
9	E7,E8,E13,E25,E50,E55,E58, E61,E65	I.C. DEC 8841	1911579	39
1	E60	I.C. DEC 74S133	1911983	40
2	E16,E17	I.C. DEC 8833	1912099	41
2	E11,E27	I.C. DEC 9558B	1912586	42
1	E18	I.C. DEC 8008-1	2111844	43
1	-	SPLIT LUG	9006735	44
1	E34	I.C. DEC PROM 32 x 8 TRI STATE	23123A1	45
4		HANDLE (FLIP CHIP)	9008337-0	46
8		EYELET	9008732	47
1	E33	I. C. DEC PROM 512 . 4 TRI STATE	23345A9	48
1	E39	I. C. DEC PROM 512 . 4 TRI STATE	23346A9	49
1	E3	I. C. DEC PROM 512 . 4 TRI STATE	23347A9	50
1	E21	I. C. DEC PROM 512 . 4 TRI STATE	23348A9	51

PARTS LIST

ETCH BOARD REV. D

FIRST USED ON OPTION MODEL

IC 745133	8	16
IC 8641	8	16
IC 8837	8	16
IC MC4024P	9	13
IC 74175	8	16
IC 7442	8	16
IC 314	1	8
IC 74154	12	24
IC 7493	10	5
IC TYPE	GND	+5V

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

IC PIN LOCATIONS

REV.	CHANGE NO.	CHK	DATE
C	M7859-00001		11/3/77
D	M7859-00002		11/3/77

REVISIONS

B. PRATT

D. DINKELDEIN

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

SEMICONDUCTOR CONVERSION CHART

DRWN		DATE 10/21/75
CHK'D		DATE 12-8-75
ENG		DATE 12-9-75
PROJ. ENG.		DATE 12-9-75
PROG.		DATE 12-2-76
NEXT HIGHER ASSY		
SCALE		
SHEET 1 OF 18		

digital

TITLE INTERFACE, PROGRAMMER'S CONSOLE

SIZE	CODE	NUMBER	REV.
D	CS	M7859-0-1	D

DIST.

1-0-6587 M7859 CODE D

DEC FORM NO. DRD 135.8

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KY2 DIN 4 H
KY2 DIN 5 H
KY2 DIN 6 H
KY2 DIN 7 H
KY4 DIN DRIVER DI5 H

7404 E40 — KY1 CK2 L — KY1 CK2 H

+3V — 7474 E12 — 7402 E30 — +5V

R1 5.6K — R2 13K — R3 6.8K — C8 270 pf — MC 4024 E42 (1MHZ) — W1 — P1

5008 E18: Ø2, Ø1, INTR, RDY, D7, D6, D5, D4, D3, D2, D1, DØ, S2, S1, S0

8833 E16 3-STATE TRANSCEIVER
8833 E17 3-STATE TRANSCEIVER

KY2 DIN Ø H
KY2 DIN 1 H
KY2 DIN 2 H
KY2 DIN 3 H
KY4 DIN DRIVER DI3 H

R5 1K — +5V — J3

8837 E1 — KY1 PUP 1 L
7404 E40 — KY1 PUP L
KY1 PUP H

7493 E36 — R3(1), R2(1), R1(1), RØ(1)

BUS DC LO L — ANI — 8837 E1 — CLR

7474 E12 — CLKØ, CLKBC

7474 E6 — KY1 CK2 L, KY1 STOP L — 7402 E29 — KY1 PUP 1 L

KY1 TI1 L, KY1 CK2 L — 7402 E29 — KY1 PUP H — 7402 E29

PUP 1 L — 7408 E26 — KY1 ADR CLR L

7474 E6 — KY1 TS3 L

KY1 TS1 L, KY1 CK2 L, KY1 SYNC H — 7427 E22 — KY1 LD AD 1 H
KY1 TS2 L — 7427 E22 — KY1 LD AD 2 H

7442 E23 — KY1 WAIT L, KY1 TS2 L, KY1 TS1 L, KY1 TI1 L, KY1 TS3 L, KY1 TS4 L, KY1 STOP L

8837 E24 — D3, D2, D1, DØ — 7404 E40 — KY1 SYNC H

D6 D672, D5 D672, D4 D672, D3 D672

D1 IN751A, D2 IN748A — C79 6.8 µf — -9V — R4 120Ω 8W — -15V

74175 E28 — KY1 PC FUN 1 H, KY1 PC FUN Ø H, KY1 ADRD 15 H, KY1 ADRD 12 H

74175 E10 — KY1 ADRD 11 H, KY1 ADRD Ø H, KY1 ADRD 9 H, KY1 ADRD 8 H

74175 E4 — KY1 ADRD 7 H, KY1 ADRD 6 H, KY1 ADRD 5 H, KY1 ADRD 4 H

T4175 E5 — KY1 ADRD 3 H, KY1 ADRD 3 L, KY1 ADRD 2 H, KY1 ADRD 2 L, KY1 ADRD 1 H, KY1 ADRD 1 L, KY1 ADRD Ø H, KY1 ADRD Ø L

KY1 LD AD 2 H
KY1 LD AD 1 H
KY1 ADR CLR L

KY1 D OUT 7 H
KY1 D OUT 6 H
KY1 D OUT 5 H
KY1 D OUT 4 H
KY1 D OUT 3 H
KY1 D OUT 2 H
KY1 D OUT 1 H
KY1 D OUT Ø H

AA2, BA2, CA2, DA2 — +5V
C75 THRU C78, 6.8 µF — C1 THRU C74, .01 µF
AC2, BC2, CC2, DC2
AT1, BT1, CT1, DT1

REVISIONS		
CHK	CHANGE NO.	REV

TITLE	SIZE	CODE	NUMBER	REV.
INTERFACE, (KY-I) PROGRAMMERS' CONSOLE	D	CS	M7859-Ø-1	D
SCALE —	SHEET 2 OF 10	DIST.		

DEC FORM NO. DRD 1.30

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KY4 RAM → DIN BUS L
KY4 RAM WRITE H

KY1 DOUT Ø H
KY1 DOUT 1 H
KY1 DOUT 2 H
KY1 DOUT 3 H
KY1 DOUT 4 H
KY1 DOUT 5 H
KY1 DOUT 6 H
KY1 DOUT 7 H

KY1 ADRD Ø L
KY1 ADRD 1 L
KY1 ADRD 2 L
KY1 ADRD 3 L

+3V

CLK CS OD WE
DI D2 D3 D4
S1 S2 S3 S4
A0 A1 A2 A3

85568 E11
85568 E27

KY2 DIN Ø H
KY2 DIN 1 H
KY2 DIN 2 H
KY2 DIN 3 H
KY2 DIN 4 H
KY2 DIN 5 H
KY2 DIN 6 H
KY2 DIN 7 H

ROM 512 X 4
E21
E33
E39

A0 A1 A2 A3 A4 A5 A6 A7 A8
O1 O2 O3 O4

KY4 ROM 1 EN L
KY4 ROM 2 EN L

KY1 ADRD Ø H
KY1 ADRD 1 H
KY1 ADRD 2 H
KY1 ADRD 3 H
KY1 ADRD 4 H
KY1 ADRD 5 H
KY1 ADRD 6 H
KY1 ADRD 7 H
KY1 ADRD 8 H

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE INTERFACE (KY-2) PROGRAMMER'S CONSOLE	SIZE D	CODE CS	NUMBER M7859-Ø-1	REV. D
SCALE —	SHEET 3 OF 1Ø	DIST.		

DEC FORM NO. DRD 130

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KY2 DIN Ø H
KY2 DIN 1 H
KY2 DIN 2 H
KY2 DIN 3 H
KY2 DIN 4 H
KY2 DIN 5 H
KY2 DIN 6 H
KY2 DIN 7 H

KY6 BB AØØ H
KY6 BB AØ1 H
KY6 BB AØ2 H
KY6 BB AØ3 H
KY6 BB AØ4 H
KY6 BB AØ5 H
KY6 BB AØ6 H
KY6 BB AØ7 H
KY4 READ INPUT 2 L

KY6 BB AØ8 H
KY6 BB AØ9 H
KY6 BB A1Ø H
KY6 BB A11 H
KY6 BB A12 H
KY6 BB A13 H
KY6 BB A14 H
KY6 BB A15 H
KY4 READ INPUT 3 L

KY8 CONN 8 H
KY8 CONN 9 H
KY8 CONN 10 H
KY8 CONN 11 H
KY4 READ INPUT 7 L

KY7 BB A16 H
KY7 BB A17 H
KY4 READ INPUT 4 L

J1
N
P
R
S
(KEY 1 H)
(KEY 2 H)
(KEY 3 H)
(KEY 4 H)

KY9 SSYN REC H
KY8 HALT BUSY H
KY4 READ INPUT 5 L
KY8 CONN Ø H
KY8 CONN 1 H
KY8 CONN 2 H
KY8 CONN 3 H
KY8 CONN 4 H
KY8 CONN 5 H
KY8 CONN 6 H
KY8 CONN 7 H
KY4 READ INPUT 6 L

REVISIONS		
CHK	CHANGE NO	REV.

TITLE	SIZE	CODE	NUMBER	REV.
INTERFACE (KY-3) PROGRAMMER'S CONSOLE	D	CS	M7859-Ø-1	D
SCALE — / — SHEET 4 OF 18	DIST.			

M7859-Ø-1 REV. D

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KY7 BB A17 H
KY7 BB A16 H
KY6 BB A15 H
KY6 BB A14 H
KY6 BB A13 H
KY6 BB A12 H
KY6 BB A11 H
KY6 BB A10 H
KY6 BB A09 H
KY6 BB A08 H
KY6 BB A06 H
KY6 BB A05 H
KY6 BB A04 H
74S133 E60
KY6 BB A03 H
7404 E40
KY6 BB A07 H
KY6 BB A02 H
KY6 BB A01 H
(CEI)BUS MSYN L
314 E32
KY7 BB C1 H
7404 E40
+5V
R6 1K
R20 100
RT 1K
C81 470pf
7417 E66
8881 E43
1 C01 BUS SSYN L
KY4 EN DB → BUS L

KY1 WAIT L
KY1 TS3 L
7408 E26
KY1 PC FUN Ø H
KY1 PC FUN 1 H
KY1 ADRD 13 H
KY1 ADRD 12 H
KY1 ADRD 11 H
ROM 32x8 TRI E54
1 KY4 ROM 1 EN L
2 KY4 ROM 2 EN L
6 KY4 RAM → DIN BUS L
7402 E29
7402 E30
KY4 DIN DRIVER DIS H
7408 E26
KY4 RAM WRITE H
7408 E26
KY1 SYNC H
KY1 TS3 L
KY1 CK2 L
7427 E22
KY1 ADRD 11 H
KY1 ADRD 10 H
KY1 ADRD 9 H
74154 E48
STB1 STB0
KY4 READ INPUT Ø L
KY4 READ INPUT 1 L
KY4 READ INPUT 2 L
KY4 READ INPUT 3 L
KY4 READ INPUT 4 L
KY4 READ INPUT 5 L
KY4 READ INPUT 6 L
KY4 READ INPUT 7 L
7404 E47
KY4 LD REG Ø H
KY4 LD REG 1 H
KY4 LD REG 2 H
KY4 LD REG 3 H
KY4 LD REG 4 H
KY4 LD REG 5 H
7404 E40

74175 E52
KY1 ADRD Ø H
KY1 ADRD 1 H
KY1 ADRD 2 H
KY1 ADRD 3 H
CLK CLR
8881 E43
API HALT RQST L
BLI BUS INIT L
7417 E66
KY4 EN DB → BUS L
KY9 SSYN REC L
CEI BUS MSYN L

74175 E64
KY1 ADRD 4 H
KY1 ADRD 5 H
KY1 ADRD 6 H
KY1 ADRD 7 H
LD REG 5 H
KY4 TAKE BUS L
KY4 CLR BUS L
7417 E69
(MAN CLK EN L)
(MAN CLK L)
J2

74175 E68
KY1 ADRD 4 H
KY1 ADRD 5 H
KY1 ADRD 6 H
KY1 ADRD 7 H
KY1 PUP L
KY4 MAINT (1) L
7414 E69
(BUS ER L)
(SR DISP L)
(MAINT MD L)
(BOOT L)
J1

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE INTERFACE (KY-4) PROGRAMMER'S CONSOLE	SIZE D	CODE CS	NUMBER M7859-Ø-1	REV. D
SCALE	SHEET 5 OF 10	DIST.		

DEC FORM NO. DRD 130

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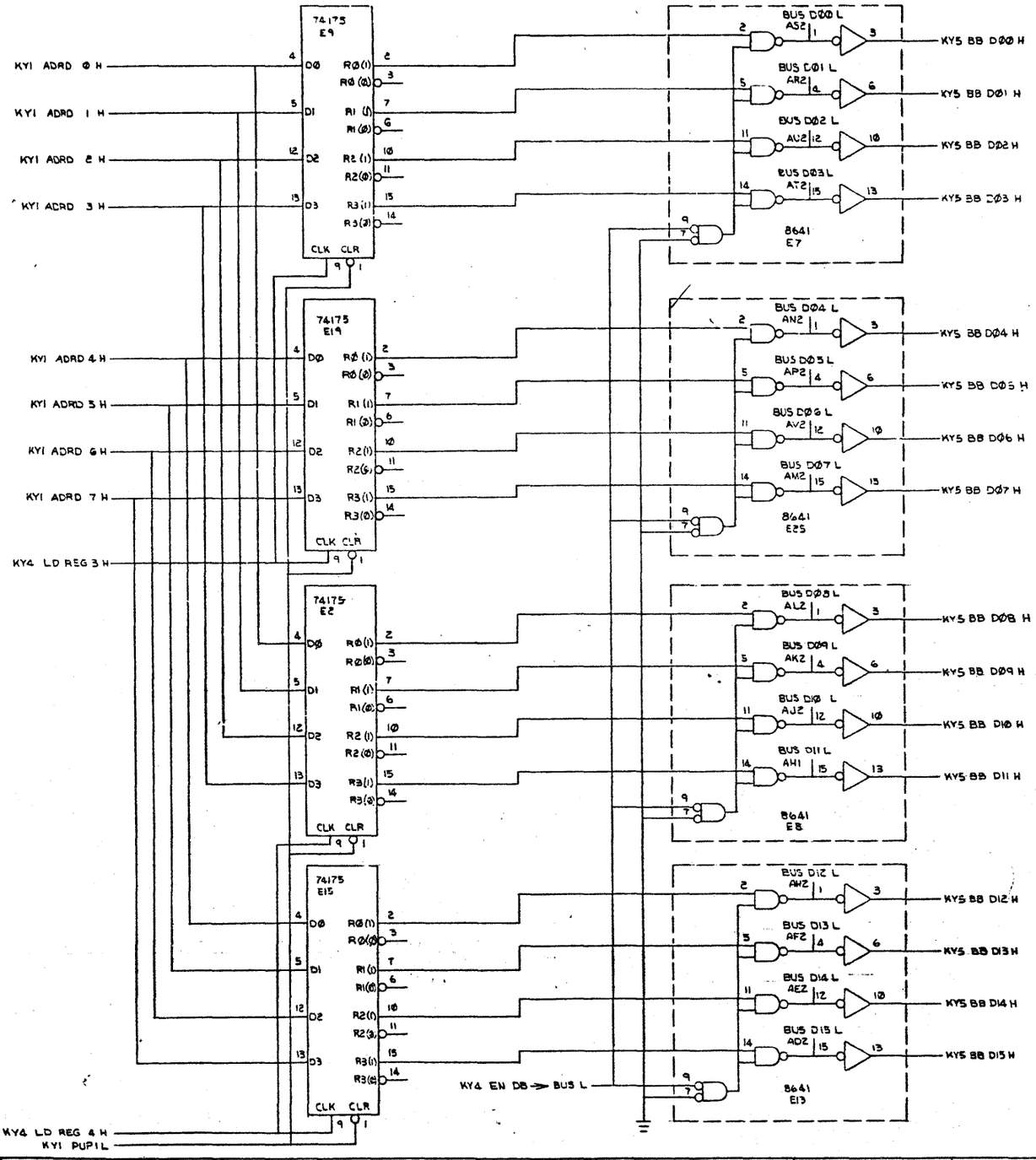

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
INTERFACE, (KY-5) PROGRAMMER'S CONSOLE	D	CS	M7859-Ø-1	D
SCALE	SHEET 6 OF 10	DIST.		

DEC FORM NO. DRD 138

SIZE D CODE CS NUMBER M7859-Ø-1 REV D

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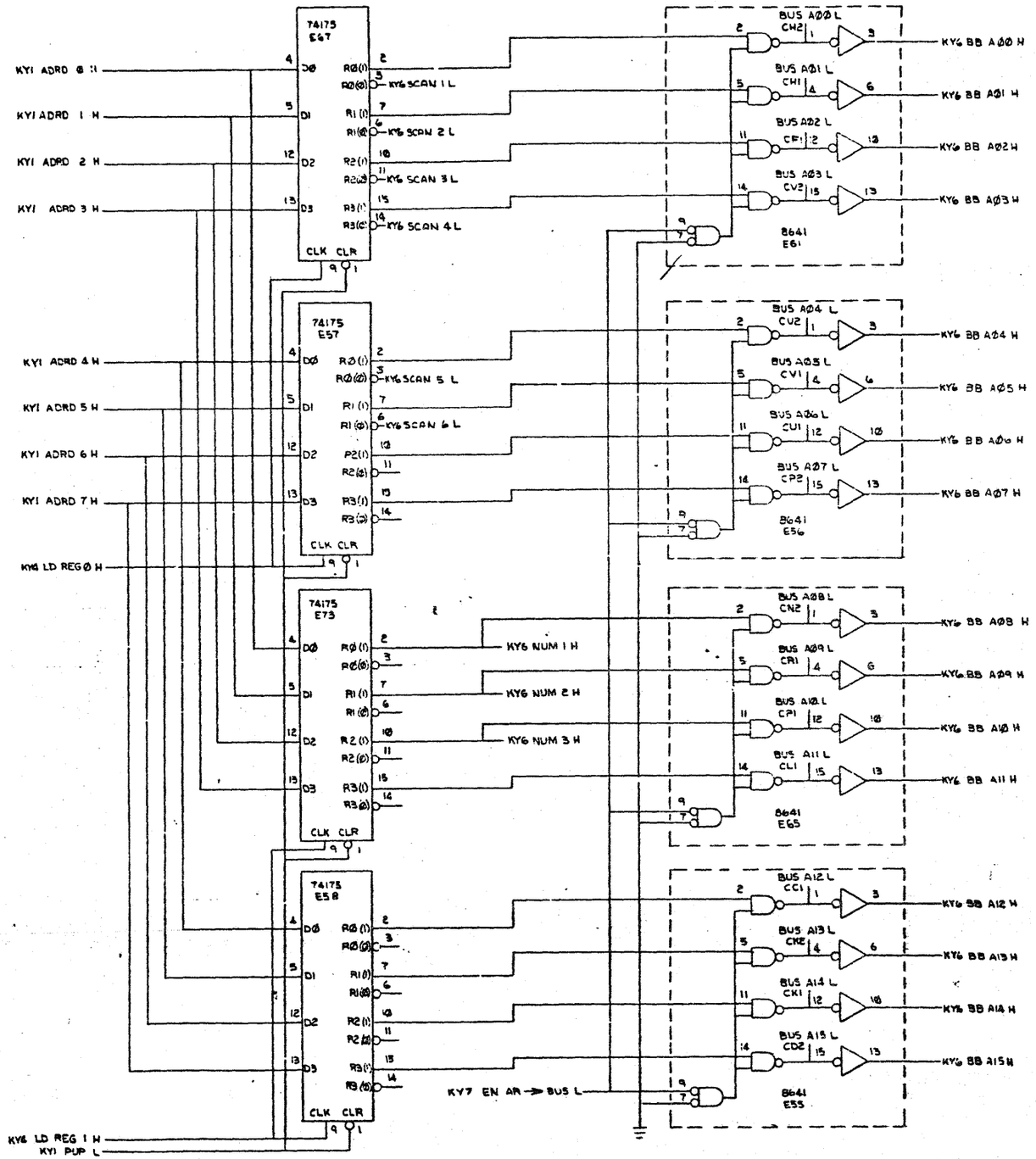

REVISIONS		
CHK	CHANGE NO.	REV

TITLE	SIZE	CODE	NUMBER	REV.
INTERFACE (KY-6) PROGRAMMER'S CONSOLE	D	DCS	M7859-0-1	D
SCALE —	SHEET 7 OF 12		DIST.	

D DCS M7859-0-1 D

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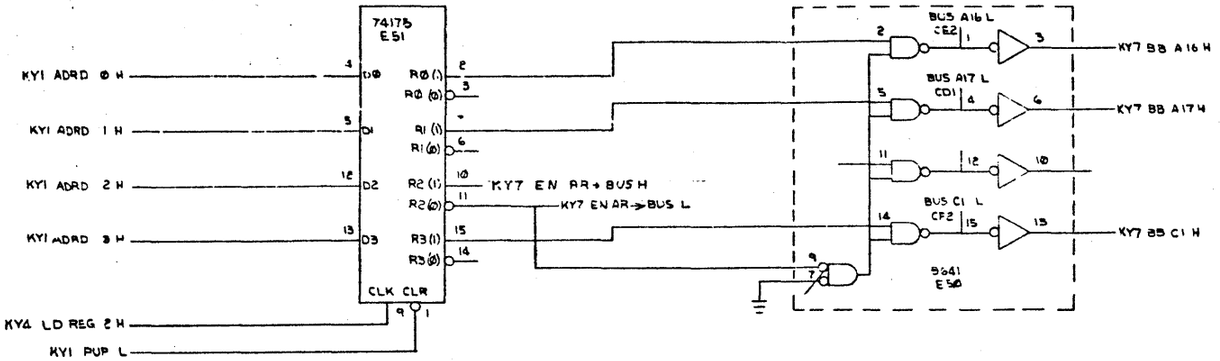

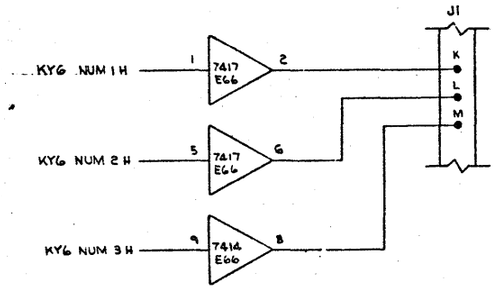

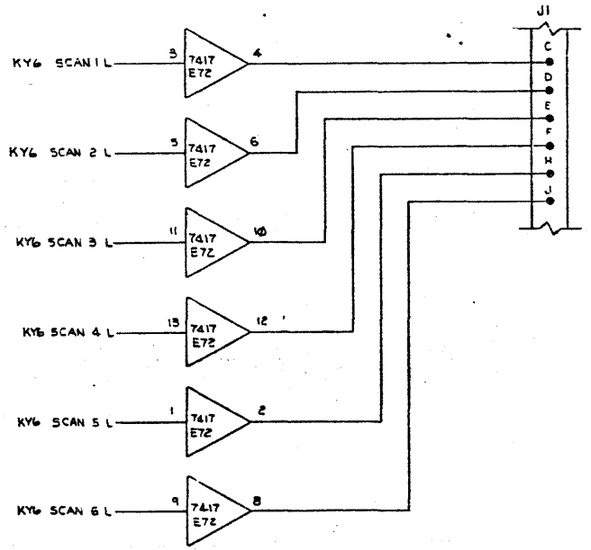

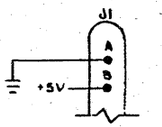

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
INTERFACE (KY-7) PROGRAMMER'S CONSOLE	D	CS	M7859-Ø-1	D
SCALE 1/1 SHEET 3 OF 10	DIST.			

DEC FORM NO. DRD 139

DCSM7859-Ø-1 REV D

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+5V

J2 (A B C E H A D F J)

R8 10K · R9 10K · R10 10K · R11 10K · R12 10K · R13 10K · R14 10K · R15 10K · R16 10K · R17 10K · R18 10K · R19 10K

HALT GRANT H (ARI) — 8837 E1

8837 E54 — KY8 CONN 0 H

8837 E54 — KY8 CONN 1 H

8837 E54 — KY8 CONN 2 H

8837 E54 — KY8 CONN 3 H

8837 E54 — KY8 CONN 4 H

8837 E54 — KY8 CONN 5 H

8837 E49 — KY8 CONN 6 H

8837 E49 — KY8 CONN 7 H

J3 (A B C D)

8837 E49 — KY8 CONN 8 H

8837 E49 — KY8 CONN 9 H

8837 E49 — KY8 CONN 10 H

8837 E49 — KY8 CONN 11 H

BUS BUSY L (DDI) — 8837 E24

BUS SSYN L (CJI) — 8837 E24 — 7402 E30 — KY8 BBSSYN H

BUS INIT L (BLI) — 8837 E1 — 8837 E1 — KY4 CLR BUS L — 7408 E53

7408 E53

7474 E23

KY4 TAKE BUS L — 7474 S63 — 8881 E62 — Ø DDI BUS BUSY L

8881 E62 — DT2 BUS SACK L

(RUN L) — J1 X

7417 E66 — KY8 HALT BUSY H

BUS BG4 IN H (BK2) — (BL2) BUS BG4 OUT H

BUS BG5 IN H (BM2) — (BN2) BUS BG5 OUT H

BUS BG6 IN H (BP2) — (BR2) BUS BG6 OUT H

BUS BG7 IN H (BS2) — (BT2) BUS BG7 OUT H

+5V — R21 220Ω — +3V — R22 750Ω

J3 (H K) — +5V

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	INTERFACE (KY-8) PROGRAMMER'S CONSOLE	SIZE D CODE CS NUMBER M7859-Ø-1	REV. D
SCALE		SHEET 9 OF 13	DIST.

DEC FORM NO. DRD 138

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+3V

KY8 BB SSYN H

KY1 CLOCK

KY7 ENABLE BUSH

KY1 PUP 1 L

KY4 MAINT (1) L

KY4 READ INPUT 0 L

KY4 READ INPUT 1 L

E75 7474

E76 7408

KY9 SSYN REC L

KY9 SSYN REC H

E20 74173

KY5 BB D00 H
KY5 BB D01 H
KY5 BB D02 H
KY5 BB D03 H

KY2 DIN 0 H
KY2 DIN 1 H
KY2 DIN 2 H
KY2 DIN 3 H

E31 74173

KY5 BB D04 H
KY5 BB D05 H
KY5 BB D06 H
KY5 BB D07 H

KY2 DIN 4 H
KY2 DIN 5 H
KY2 DIN 6 H
KY2 DIN 7 H

E14 74173

KY5 BB D08 H
KY5 BB D09 H
KY5 BB D10 H
KY5 BB D11 H

E37 74173

KY5 BB D12 H
KY5 BB D13 H
KY5 BB D14 H
KY5 BB D15 H

DATA ENAB
D0 D1 D2 D3
R0(1) R1(1) R2(1) R3(1)
OUT CONT CLK
CLR

REVISIONS		
CHK	CHANGE NO.	REV

TITLE	SIZE	CODE	NUMBER	REV.
INTERFACE, (KY-1) PROGRAMMERS CONSCLE	D	CS	M7859-0-1	D
SCALE —— SHEET 13 OF 13	DIST.			

digital EQUIPMENT CORPORATION

DRAWING DIRECTORY

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~~CUSTOMER PRINT SET INDEX~~

~~THIS IS PRINT SET~~

SEQUENCE		SEQUENCE	

NOTE:
FOR FIELD MAINTENANCE
PRINT SET REFER TO
B-[illegible]C-KY11-LB-1

UNIT VARIATIONS

VAR	TITLE	PRINT SET
KY11-LB	PROGRAMMERS CONSOLE	

REVISIONS		
DATE	CHG. NO.	REV
5-76	KY11-LB-1	A
12-76	KY11-LB-2	B
5-77	KY11-LB-3	C
8-78	KY11-LB-4	D
4-81	KY11-LB-6	E

USED ON OPTION/MODEL	
11/34	
SHEET 1 OF 2	

DRN. D. HEALY	DATE 11/5/75	TITLE DRAWING DIRECTORY KY11-LB
CHK'D. D. HEALY	DATE 11/6/75	
PROJ ENG. R.B. PRATT	DATE 12-11-75	
PROD. K. MacDonald	DATE 12-12-75	SIZE B / CODE DD / NUMBER KY11-LB / REV E
~~ELECTRONIC~~	DATE	DIST

EN-01062-1-A-16-R972-(325)

DRB 106

TW

ELECTRICAL (SECTION 1)

CUSTOMER PRINT SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO. FILE DATE
	1	D-UA-KY11-LB-Ø		1	CONSOLE ASSY PROGRAMMERS	
	3	D-CS-5411800-0-1		2	CIRCUIT ETCH BOARD KY11-LB	
	4	D-CS-M7859-Ø-1		1	INTERFACE PROGRAMMERS CONSOLE	

MECHANICAL (SECTION 2)

CUSTOMER PRINT SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO. FILE DATE
	1	D-UA-KY11-LB-Ø		1	CONSOLE ASSY PROGRAMMERS	
		D-IA-7415048-0-0		1	SUPPORT, PANEL	
		B-PL-KY11-LB-0-?		1	SHIPPING LIST	
		[illegible]		1	BRKT., SWITCH SUPPORT	
		D-IA-7012214-0-0		1	CABLE, CONSOLE TO M7859	
		C-IA-7011411-0-0		1	CABLE, CONS. TO BACK PLANE	
		C-MD-7419008-0-0		1	BRACE. SUPPORT PANEL	
		D-MD-7424271-0-0		1	COVER, PROTECTIVE BEZEL	
	2	D-IA-7415047-0-0		1	PANEL, PROGRAM	
		C-SS-7415047-0-1		1	SILK SCREEN LIGHT GRAY	
		C-SS-7415047-0-2		1	SILK SCREEN DARK GRAY	
	3	D-CS-5411800-0-1		2	CIRCUIT ETCH BOARD KY11-LB	
		K-CO-5411800-0-4			X-Y COORDINATE HOLE LOCATION	
		D-AH-5411800-0-5			ASSY/DRILLING HOLE LAYOUT	
		B-MH-5411800-0-6			MODULE ECO HISTORY	
		5011799		REF	ETCH CIRCUIT BOARD	
		C-IA-7415272-0-0		1	BRKT., SWITCH MTG	
	4	D-CS-M7859-Ø-1		1	INTERFACE PROGRAMMERS CONSOLE	
		K-CO-M7859-Ø-4			X-Y COORDINATE HOLE LOCATION	
		D-AH-M7859-Ø-5			ASSY/DRILLING HOLE LAYOUT	
		B-MH-M7859-Ø-6			MODULE ECO HISTORY	
		5011756		REF	ETCH CIRCUIT BOARD	

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		SIZE	CODE	NUMBER	REV
DRAWING DIRECTORY KY11-LB	SHEET 2 OF 2	B	DD	KY11-LB	E

DRB 108

TW

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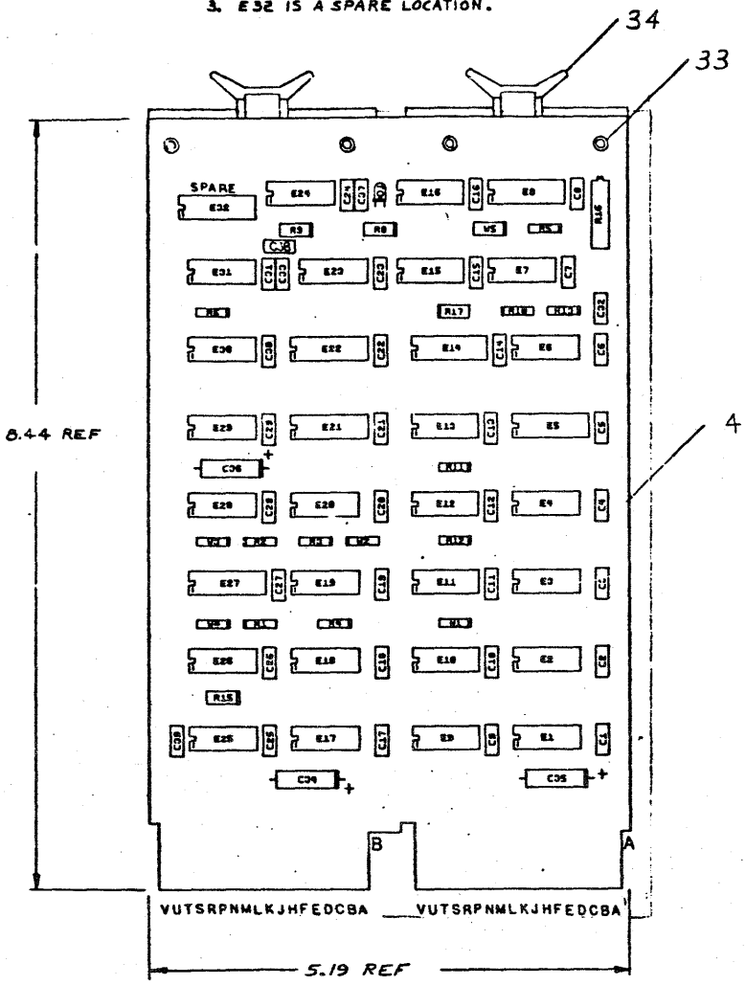
NOTES:

1. ALL RESISTORS 1/4 W, 5% UNLESS OTHERWISE NOTED.
   ALL CAPACITORS ARE 100V, 20% UNLESS OTHERWISE NOTED.
2. JUMPER CONTROL OPERATIONS AS FOLLOWS:
   W1 THRU W4 SELECT CSR ADDRESS, W5 CAPACITOR FOR 3 SYN DLY, NOT USED.
3. E32 IS A SPARE LOCATION.



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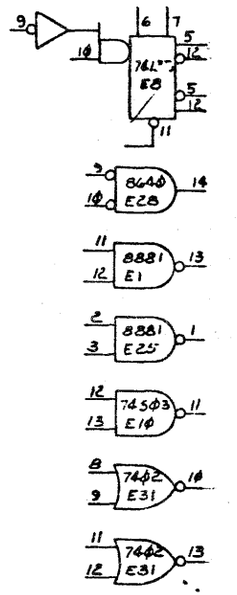

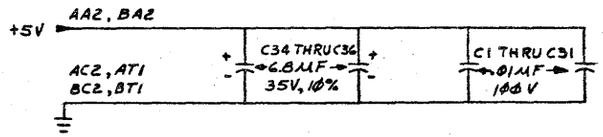

REF				
REF		CIRCUIT SCHEMATIC	D-CS-M7850-0-1	REF
REF		X-Y COORDINATE HOLE LOCATION	X-CO-M7850-0-4	1
REF		ASSY/DRILLING HOLE LAYOUT	D-AH-M7850-0-5	2
REF		MODULE ECO HISTORY	B-MH-M7850-0-6	3
1		ETCHED CIRCUIT BOARD	5010651-00	4
1	C39	CAP 470 PF, 100V, 5% (DM)	1000024-00	5
2	C33, C37	CAP 330 PF, 100V, 5% (DM)	1000023-00	6
32	C1 THRU C32	CAP .01 MF, 100 V, 20% DISC	1001610-01	7
3	C34, -35, C36	CAP 6.8 MF, 35V, 10% S.TANT	1005306-00	8
1	D1	DIODE, L.E.D.	1110324-00	9
5	R1 THRU R5	RES 4.7K 1/4W 5%	1300247-00	10
3	R8, R9, R15	RES 100 1/4W 5%	1300229-00	11
5	R6, R10, R11, R12, R17	RES 470 1/4W 5%	1300316-00	12
1	R13	RES 1K 1/4W 5%	1300365-00	13
1	R16	RES 10K 3/4W 2% (1% PR RN)	1309143-10	14
1	E24	I.C. 7400	1905575-00	15
1	E30	I.C. 7430	1905578-00	16
1	E31	I.C. 7402	1909004-00	17
1	E19	I.C. 314A	1909704-00	18
1	E23	I.C. 7408	1910155-00	19
4	E1, E9, E17, E25	I.C. 8881	1909705-00	20
1	E16	I.C. 74H04	1909931-00	21
1	E27	I.C. 7485	1910224-00	22
1	E8	I.C. 74123	1910436-00	23
1	E10	I.C. 74S03	1910533-00	24
1	E15	I.C. 74S74	1910544-00	25
1	E21	I.C. 74174	1910652-00	26
2	E5, E22	I.C. 74157	1910655-00	27
9	E2, E3, E11, E12, E18 E20, E26, E28, E29	I.C. 8640	1911469-00	28
2	E4, E13	I.C. 74S280	1911573-00	29
1	E14	I.C. 8266	1909934-00	30
2	E6, E7	I.C. 7474	1905547-00	31
4	W1 THRU W4	INSULATED JUMPER	9009185-00	32
4		EYELET	9006732-00	33
2		HANDLE, FLIP-CHIP (MAGENTA)	9008337-6	34
QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.

FIRST USED ON OPTION MODEL

PARTS LIST

ETCH BOARD REV. B

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

SEMICONDUCTOR CONVERSION CHART

8640	1	8
8266	8	16
74157	8	16
74174	8	16
74123	8	16
7485	8	16
314A	1	8
IC TYPE	GND	+5V

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

IC PIN LOCATIONS

REV.	CHANGE NO.	CHK	DATE
B	M7850-00001	J.H.	8/13/75

REVISIONS

DRN. M. LUFKIN DATE 2-5-75
CHK'D DATE 2/19/75
ENG. DATE 2/19/75
PROJ. ENG. DATE 2/19/75
PROD. DATE 2/19/75
NEXT HIGHER ASSY
SCALE
SHEET OF 3

digital

TITLE
PARITY MODULE

SIZE D | CODE CS | NUMBER M7850-0-1 | REV. B
DIST.

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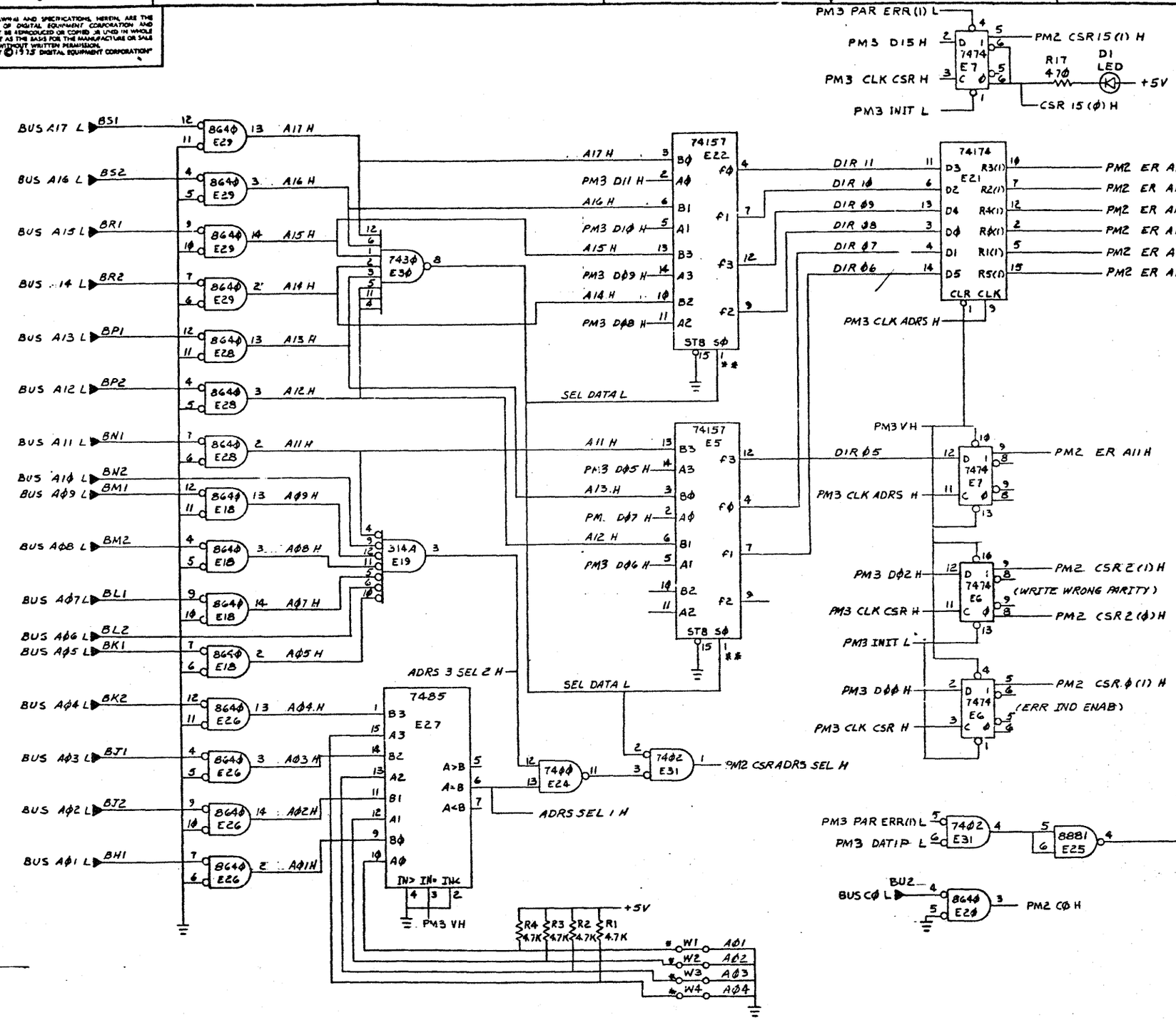

NOTES:

* THE CSR REGISTER ADDRESS IS LOCATED BETWEEN 772100 AND 772136. IT IS SELECTED WITH JUMPERS W1 THRU W4. REMOVING A JUMPER SELECTS A "ONE" FOR THAT BIT POSITION. (*)

MACHINE ADDRESS (WORDS) 8	W4 A4	W3 A3	W2 A2	W1 A1
772100	IN	IN	IN	IN
772102	IN	IN	IN	OUT
772104	IN	IN	OUT	IN
772106	IN	IN	OUT	OUT
772110	IN	OUT	IN	IN
772112	IN	OUT	IN	OUT
772114	IN	OUT	OUT	IN
772116	IN	OUT	OUT	OUT
772120	OUT	IN	IN	IN
772122	OUT	IN	IN	OUT
772124	OUT	IN	OUT	IN
772126	OUT	IN	OUT	OUT
772130	OUT	OUT	IN	IN
772132	OUT	OUT	IN	OUT
772134	OUT	OUT	OUT	IN
772136	OUT	OUT	OUT	OUT

** THE "A" INPUTS ARE SELECTED WHEN THE SEL INPUT GOES LOW. (**)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
PARITY MODULE (PM2)	D	CS	M7850-Ø-1	B
SCALE	SHEET 2 OF 3	DIST.		

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NOTES:
- # B INPUTS SELECTED WHEN SEL IS LOW (*)
- ** SET R16 TO 110 NSEC ±10NS FROM SIGNAL ON PIN BE1 GOING LOW TO SIGNAL ON PIN BB2 GOING HIGH. (@ 1.5V LEVEL) (**)

PM2 CSR 15 (1) H
BUS DI4 L
BUS DI3 L
BUS DI2 L
PM2 ER A17 H
PM2 ER A16 H
PM2 ER A15 H
PM2 ER A14 H
PM2 ER A13 H
PM2 ER A12 H
PM2 ER A11 H
BUS DØ4 L
BUS DØ3 L
PM2 CSR 2 (1) H
BUS DØ1 L
PM2 CSR Ø (1) H
PM3 READ SEL H

8881 E9, 8881 E9, 8881 E9, 8881 E9, 8881 E17, 8881 E17, 8881 E17, 8881 E17, 8881 E1, 8881 E1

AM2 BUS DI5 L
ALI
AL2
AKI
AK2 BUS DI1 L
AJI BUS DIØ L
AJ2 BUS DØ9 L
AHI BUS DØ8 L
AH2 BUS DØ7 L
AFI BUS DØ6 L
AF2 BUS DØ5 L
AEI
AE2
ADI BUS DØ2 L
AD2
ACI BUS DØØ L

8640 E12, 8640 E11, 8640 E11, 8640 E12, 8640 E2, 8640 E2, 8640 E2, 8640 E11, 8640 E3, 8640 E3, 8640 E3

PM3 DI5 H
DI4 H
DI3 H
DI2 H
PM3 DI1 H
PM3 DIØ H
PM3 DØ9 H
PM3 DØ8 H
PM3 8 BIT GEN H

74S28Ø E13 (G H B I C D E F A → ODD 6, EVEN 5)

PM3 DØ7 H
DØ4 H
DØ3 H
DØ1 H
PM3 DØ6 H
PM3 DØ5 H
PM3 DØ2 H
PM3 DØØ H

74S28Ø E4 (G H B I C D E F A → ODD 6, EVEN 5)

PM3 C1 H

74S03 E4Ø, 74S03 E1Ø, 74S03 E1Ø

ANI INT BUS PI L
API INT BUS PØ L
PM3 PAR ERR H

R12 47Ø, R11 47Ø, R1Ø 47Ø, +5V

8266 E14

PM2 CSR 2 (Ø) H
PM3 VH
PM2 CØ H
PM3 INT SSYN H
PM3 C1 L

B3 A3 B2 A2 B1 A1 BØ AØ S1 SØ → P3 P2 P1 PØ

PM3 8 BIT GEN H
PM3 A BIT GEN H
PM3 DATIP L

R6 47Ø +5V
MN84 E16

R5 4.7K +5V
R13 1K +5V PM3 VH
R16 1ØK
(T.P.)
W50
BB2 S SYN DLY (Ø) H

INT BUS SSYN L BE1
PM3 C1 L
74123 E8
PM3 INIT L

C32 .Ø1UF
PM3 PAR ERR (1) H
PM3 PAR ERR (1) L
74S74 E15
PM2 CSR Ø (1) H
8881 E1 AN2 BUS PB L

PM3 INT SSYN H
PM3 M SYN PULSE L
PM3 PAR ERR H
8881 E25 BUI BUS SSYN L
8881 E25

C37 33Ø PF 5%
RØ 1ØØ
74H04 E16
74ØØ E24
PM3 PAR ERR (1) H
ERR CLR INH L
74Ø8 E23
S SYNC INH Ø H

BUS INIT L AAI
8640 E2Ø
INIT H
PM3 INIT L

BUS C1 L BB2
PM3 C1 H
PM3 C1 L

BE2 INT BUS PAR MOD DET L

R9 1ØØ
C33 33ØPF 5%
PM3 M SYN PULSE L

BUS M SYN L BV1
PM2 CSR ADRS SEL H

C39 47Ø PF 5%
R15 1ØØ
PM3 READ SEL H
PM3 CLK CSR H
CLK CSR L
PM3 CLK ADRS H
PM3 PAR ERR (1) L

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
PARITY MODULE (PM3)	D	CS	M7850-0-1	B
SCALE	SHEET 3 OF 3	DIST.		

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FIELD MAINTENANCE PRINT SET

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TABLE OF CONTENTS

FIELD MAINT. PRINT SET MS11-E	B-TC-MS11-E-1
MOS RAM (MS11-E)	A-PL-MS11-E-Ø
UNIBUS MOS MEMORY	D-CS-M7847-Ø-1

UNIT VARIATIONS COVERED BY THIS PRINT SET
MS11-E
MS11-EP
MS11-F
MS11-FP
MS11-J
MS11-JP

MS11-E

Field Maintenance Print Set

Digital Equipment Corporation

PRINT SET ORDER NO.
MPØØØ21

REVISIONS	REV.	CHG. NO.	DATE
		—	

USED ON OPTION/MODEL	
11/Ø4-AA	11/Ø4-DC
11/Ø4-AB	11/Ø4-DD
11/Ø4-AC	11/Ø4-EC
11/Ø4-AD	11/Ø4-ED
11/Ø4-BA	
11/Ø4-BB	
11/Ø4-BC	
11/Ø4-BD	

SHEET I OF 1

DRN.	D. HEALY	DATE	10/1/75
CHK'D	D. HEALY	DATE	10/1/75
PROJ. ENG.		DATE	10/22/75
FIELD SERV.		DATE	10-22-75

digital

TITLE: FIELD SERVICE MAINTENANCE PRINT SET MS11-E

SIZE	CODE	NUMBER	REV.
B	TC	MS11-E-1	
DIST.			

EN-01124-16-N675-(327)

DRB 124

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY	D. HEALY	CHECKED D. HEALY	SECTION 1
DATE	10/6/75	DATE 10/6/75	
ENG R. BARRY R Barry		PROD R.K. Peterson	ISSUED SECT. 1
DATE 10-22-75		DATE 10/22/75	

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY/VARIATION MS11-E	MS11-EP	MS11-F	MS11-FP	MS11-J	MS11-JP
	D-CS-M7847-AA-1	UNIBUS MOS MEM	1	-	-	-	-	-
	D-CS-M7847-AB-1	UNIBUS MOS MEM	-	1	-	-	-	-
	D-CS-M7847-AC-1	UNIBUS MOS MEM	-	-	1	-	-	-
	D-CS-M7847-AD-1	UNIBUS MOS MEM	-	-	-	1	-	-
	D-CS-M7847-AH-1	UNIBUS MOS MEM	-	-	-	-	1	-
	D-CS-M7847-AJ-1	UNIBUS MOS MEM	-	-	-	-	-	1

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.	ECO NO.
MOS RAM (MS11-E)	NONE	A	PL	MS11-E-Ø	A	MS11-E-00001
	SHEET 1 OF 1	DIST.				

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

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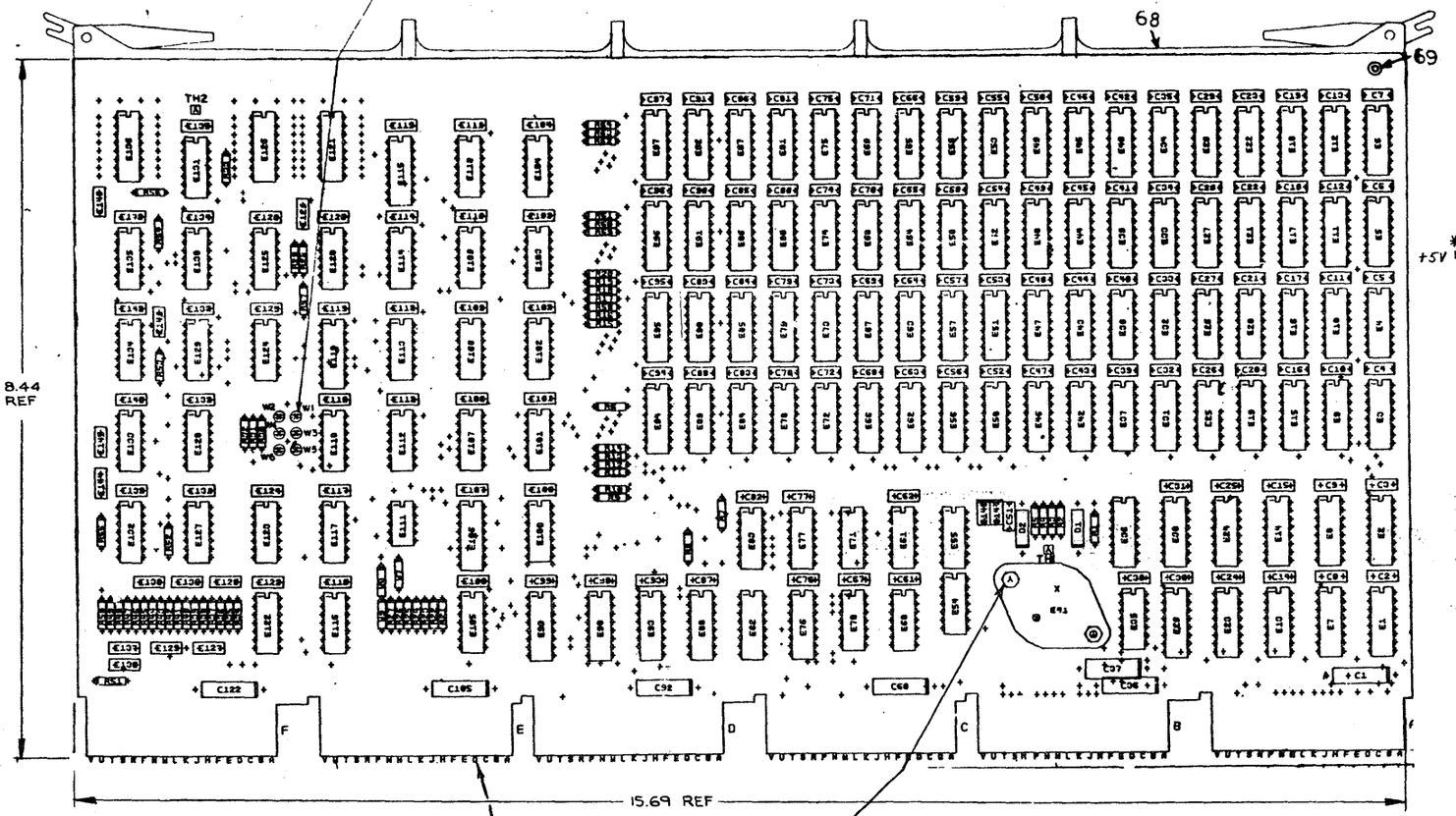
NOTES:

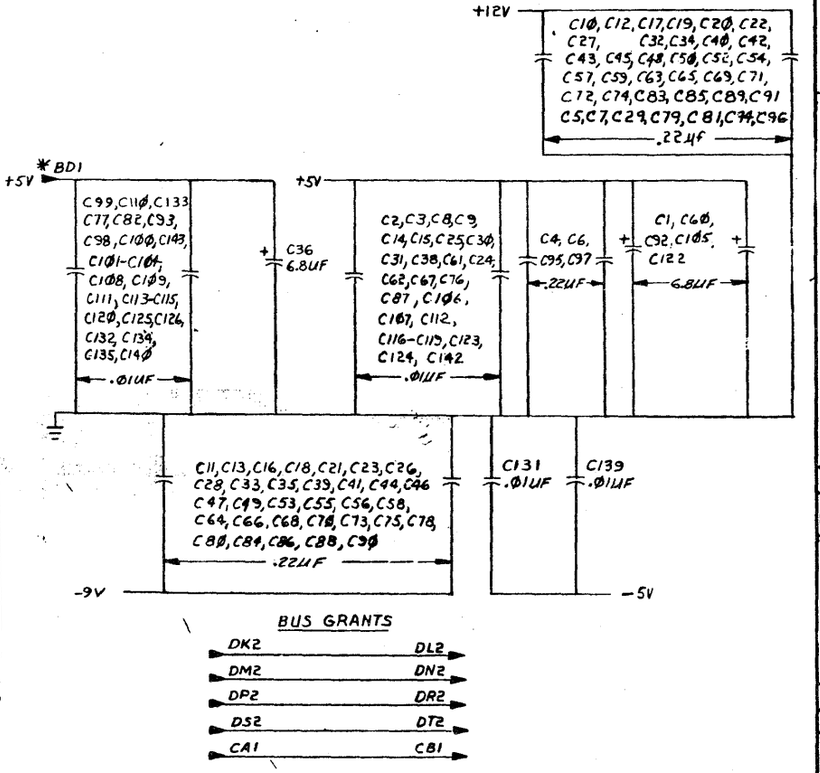
1. THERMAL COMPOUND (ITEM NO. 72) TO BE PLACED UNDER E41.

2. JUMPERS TO BE CONNECTED FOR EACH VARIATION AS FOLLOWS:

BA,CA,DA,EA,BB,CB,DB,EB, YA & YB	W3 TO W4
BC,CC,DC,EC, BD,CD,DD,ED, YC & YD	W1 TO W2 & W3 TO W4
BE,CE,DE,EE,BF,CF,DF,EF, BH,CH,DH,EH, BJ,CJ,DJ,EJ, YE,YF,YH & YJ	W1 TO W2, W3 TO W4, & W5 TO W6

2.(CONT) CONNECTIONS TO BE MADE USING BUS WIRE (ITEM NO. 73).





BUS GRANTS

DK2	DL2
DM2	DN2
DP2	DR2
DS2	DT2
CA1	CB1

7475	12	5	—
74S153	8	16	—
7S107	7	14	13
74174	8	16	—
8641	8	16	—
8640	1	8	—
7483	12	5	—
IC TYPE	GND	+5V	−5V

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

IC PIN LOCATIONS

FOR PARTS LIST REFER TO SHEETS 2 & 3

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.

PARTS LIST

FIRST USED ON OPTION MODEL

ETCH BOARD REV. E

REV.	CHANGE NO.	CHK
L	M7847-NL0007	J. MANTON 5/19/76
K	M7847-00006	J. MANTON 4/1/76
J	M7847-00005	J. MANTON 3/10/76
H	M7847-00004	J. MANTON 2/17/76
F	M7847-00003	J. MANTON 12/14/75
E	M7847-00002	J. MANTON 10-9-75
D	M7847-00001	J. MANTON 30-OCT-75

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

SEMICONDUCTOR CONVERSION CHART

DRN	DATE 5/14/75
CHECK	DATE 6/12/75
ENG	DATE 6/13/75
PROJ. ENG	DATE 6/13/75
PROD.	DATE 6-12-75
NEXT HIGHER ASSY	
SCALE	
SHEET 1 OF 16	

digital

TITLE: UNIBUS MOS MEMORY

SIZE D | CODE CS | NUMBER M7847-0-1 | REV. L | DIST.

DCS M7847-0-1 L

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NOTES:
1. DEC PART NO. 1001810-00 IS AN ACCEPTABLE REPLACEMENT FOR DEC PART NO. 1001810-01 (ITEM 14).
2. VARIATIONS YA THRU YJ. ITEM 21; DI DIODE, ZENER IN757A, 9.1V 5% (1109990-00)
   ITEM 26; R2 RES 270, 1/4W, 5% CC (1301972-00)
   VARIATIONS BA THRU BJ) DI DIODE, ZENER IN751A, 5.1V, 5% (1110994-00)
   CA THRU CJ, DA THRU DJ, R2 560 1/4W, 5%, CC (1301890-00)
   EA THRU EJ)
   VARIATIONS YA THRU YJ ITEM 65; 4K18 PIN MOSRAM Y88 -8V(21-11749-00)
   VARIATIONS BA THRU BJ ITEM 65; MOSTEK 4098 (21-12728-00)
   VARIATIONS CA THRU CJ ITEM 65; FUJITSU 8224 (21-13787-01)
   VARIATIONS DA THRU DJ ITEM 65; MOSTEK 4027 (21-13735-01)
   VARIATIONS EA THRU EJ ITEM 65; INTEL 2104A (21-13795-01)
   VARIATIONS FA THRU FJ ITEM 65; HITACHI (21-13992-01)
   VARIATIONS HA THRU HJ ITEM 65; DEC 4027 (21-13914-01)
   VARIATIONS JA THRU JJ ITEM 65, FUJITSU 8227 (21-14475-01)

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

PARTS LIST

QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO
1	1	1	1	1	1	1	1		DATA BASE TAPE	5011215-0-0	1
~~-~~	~~-~~	~~-~~	~~-~~	~~-~~	~~-~~	~~-~~	~~-~~		~~DATA BASE TAPE~~	~~M7847-YA-0~~	~~2~~
~~-~~	~~-~~	~~-~~	~~-~~	~~-~~	~~-~~	1	~~-~~		~~DATA BASE TAPE~~	~~M7847-YB-0~~	~~3~~
~~-~~	~~-~~	~~-~~	~~-~~	~~-~~	1	~~-~~	~~-~~		~~DATA BASE TAPE~~	~~M7847-YC-0~~	~~4~~
~~-~~	~~-~~	~~-~~	~~-~~	1	~~-~~	~~-~~	~~-~~		~~DATA BASE TAPE~~	~~M7847-YD-0~~	~~5~~
~~-~~	~~-~~	~~-~~	1	~~-~~	~~-~~	~~-~~	~~-~~		~~DATA BASE TAPE~~	~~M7847-YE-0~~	~~6~~
~~-~~	~~-~~	1	~~-~~	~~-~~	~~-~~	~~-~~	~~-~~		~~DATA BASE TAPE~~	~~M7847-YF-0~~	~~7~~
~~-~~	1	~~-~~	~~-~~	~~-~~	~~-~~	~~-~~	~~-~~		~~DATA BASE TAPE~~	~~M7847-YH-0~~	~~8~~
1	~~-~~	~~-~~	~~-~~	~~-~~	~~-~~	~~-~~	~~-~~		~~DATA BASE TAPE~~	~~M7847-YJ-0~~	~~9~~
REF	REF	REF	REF	REF	REF	REF	REF		UNIT ASSEMBLY	D-UA-M7847-0-0	10
REF	REF	REF	REF	REF	REF	REF	REF		DRILL & ETCH DWG	D-MD-5011215-0-0	11
REF	REF	REF	REF	REF	REF	REF	REF		MODULE ECO HISTORY	B-MI-M7847-0-0	12
1	1	1	1	1	1	1	1		ETCHED CIRCUIT BOARD	5011215	13
57	57	57	57	57	57	57	57	C2,C3,C8,C9,C14,C15,C24,C25, C30,C31,C38,C81,C82,C87,C78, C77,C82,C87,C93,C98-C104, C106-C120, C123-C127, C131-C137, C139,C140,C142,C143	CAP .01UF, 100V, 20% DISC	1001810-01 (SEE NOTE 1)	14
-	-	-	-	37	37	37	37	C6,C7,C12,C13,C18,C19,C22,C23, C28,C29,C34,C35,C41,C42,C45, C46,C49-C51,C54,C55,C58,C59 C65,C68,C70,C71,C74,C75,C80,C81, C85,C86,C90,C91,C96,C97	CAP .22UF, 50V CER	1010274-01	15
73	73	73	73	-	-	-	-	C4-C7,C10-C13,C16-C23,C26-C29 C32-C35,C42-C59 C63-C66, C68-C75,C78-C81,C83-C88,C88-C91, C94-C97			
6	6	6	6	6	6	6	6	C1,C36 ,C60 C92,C105,C122	CAP 6.8UF, 35V, 10% S. TANT	1005308-00	16
1	1	1	1	1	1	1	1	C146	CAP 82PF, 100V, 5% DM	1000015-00	17
4	4	4	4	4	4	4	4	C128-C130, C138	CAP 220PF, 100V, 1% DM	1012121-00	18
2	2	2	2	2	2	2	2	C121,C141	CAP 220PF, 100V, 5% DM	1000021-00	19
2	2	2	2	2	2	2	2	C144, C145	CAP 560PF, 100V, 5% DM	1000025-00	20
1	1	1	1	1	1	1	1	D1	SEE NOTE #2		21
1	1	1	1	1	1	1	1	D2	DIODE, ZENER IN751A, 5.1v, 5%	1110994-00	22
21	21	21	21	21	21	21	21	R9-R28, R57-R65	RES 18, 1/4W, 5% CC	1302124-00	23
16	16	16	16	16	16	16	16	R7,R8,R21-R27,R30-R33,R52, R54,R55	RES 1K, 1/4W, 5%, CC	1300365-00	24
5	5	5	5	5	5	5	5	R3-R5, R28, R29	RES 560, 1/4W, 5%, CC	1301890-00	25
1	1	1	1	1	1	1	1	R2	SEE NOTE #2		26
~~-~~	~~-~~	~~-~~	~~-~~	~~-~~	~~-~~	~~-~~	~~-~~	~~R63~~	~~RES 270, 1/4W, 5%, CC~~	~~1302308-00~~	~~27~~
1	1	1	1	1	1	1	1	R1	RES 18K, 1/4W 5%, CC	1300479-00	28
1	1	1	1	1	1	1	1	R48	RES 39K, 1/4W, 5%, CC	1302394-00	29
7	7	7	7	7	7	7	7	R37,R38,R41,R45,R47,R49,R50	RES 1K, 1/4W, 1%, MF	1303114-00	30
1	1	1	1	1	1	1	1	R34	RES 681, 1/4W, 1%, MF	1302972-00	31
3	3	3	3	3	3	3	3	R36, R46, R51	RES 4.7K, 1/4W, 5%, CC	1300447-00	32
2	2	2	2	2	2	2	2	R56, R59	RES 100, 1/4W, 5% CC	1300229-00	33
1	1	1	1	1	1	1	1	R43	RES 1.54K, 1/4W, 1%, MF	1312480-00	34
1	1	1	1	1	1	1	1	R40	RES 1.05K, 1/4W, 1% MF	1312479-00	35
1	1	1	1	1	1	1	1	R35	RES 2.7K, 1/4W, 5% CC	1300428-00	36
1	1	1	1	1	1	1	1	R39	RES 8.8K, 1/4W, 5%, CC	1301423-00	37
1	1	1	1	1	1	1	1	R44	RES 12K, 1/4W, 5%, CC	1300488-00	38
1	1	1	1	1	1	1	1	R42	RES 4.3K, 1/4W, 5% CC	1302389-00	39
8	8	8	8	8	8	8	8	E2,E8,E14,E24,E30,E38	IC 74174	1910852-00	40
5	5	5	5	5	5	5	5	E1,E7,E13,E23,E29	IC 8641-1	1911579-01	41

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

PARTS LIST

QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO
1	1	1	1	1	1	1	1	E35	IC 8881	1909705-00	42
8	8	8	8	8	8	8	8	E54,E55,E60,E61,E70,E71	IC 8640	1911469-00	43
2	2	2	2	2	2	2	2	E77, E135	IC 7474	1905547-00	44
1	1	1	1	1	1	1	1	E83	IC 74197	1910035-00	45
5	5	5	5	5	5	5	5	E76,E82,E88,E115,E119	IC 7475	1909050-00	46
3	3	3	3	3	3	3	3	E93, E98, E99	IC 74S153	1910547-00	47
8	8	8	8	8	8	8	8	E100-E103, E107, E109	IC 74S140	1910548-00	48
2	2	2	2	2	2	2	2	E104, E105	IC 7420	1905577-00	49
1	1	1	1	1	1	1	1	E106	IC 7483	1909932-00	50
3	3	3	3	3	3	3	3	E110, E113, E131	IC 7400	1905575-00	51
3	3	3	3	3	3	3	3	E112, E118, E123	IC 74S20	1910539-00	52
1	1	1	1	1	1	1	1	E117	IC 7486	1910011-00	53
1	1	1	1	1	1	1	1	E124	IC74S04	1910534-00	54
1	1	1	1	1	1	1	1	E125	IC 74S63	1910533-00	55
3	3	3	3	3	3	3	3	E127, E132, E133	IC 75107	1910268-00	56
1	1	1	1	1	1	1	1	E128	IC 74S85	1910535-00	57
1	1	1	1	1	1	1	1	E129	IC 7404	1909686-00	58
2	2	2	2	2	2	2	2	E114, E122	IC 7440	1905579-00	59
1	1	1	1	1	1	1	1	E116	IC 74S11	1910537-00	60
1	1	1	1	1	1	1	1	E108	IC 7437	1910091-00	61
1	1	1	1	1	1	1	1	E41	IC 7812	1912048-01	62
1	1	1	1	1	1	1	1	E134	IC 74S10	1910536-00	63
1	1	1	1	1	1	1	1	E136	IC 74S74	1910544-00	64
-	-	-	-	-	-	-	16	E12,E19,E22,E28,E34,E40, E45, E49, E50,E55,E60,E75,E81, E87,E92,E97	SEE NOTE #2		65
-	-	-	-	-	-	18	-	E5,E12,E18 E22,E28,E34,E40, E45,E49,E53,E59,E65,E69,E75, E81,E87 E92,E97			
-	-	-	-	-	32	-	-	E11,E12,E17,E18,E21 E22, E27,E28,E33,E34,E39 E40,E44, E45,E48,E49,E58 E59,E64,E65, E68 E69,E74,E75 E80,E81,E86, E87,E91 E92,E96 E97			
-	-	-	-	38	-	-	-	E5,E8,E11,E12,E17,E18,E21,E22, E27,E28,E33,E34,E39,E40,E44, E45,E48,E49,E52,E53,E58,E59, E64,E65,E68,E69,E74,E75 E80 E81 E86 E87 E91 E92 E96 E97			
-	-	-	48	-	-	-	-	E10-E12,E15-E18,E20-E22, E28-E28,E32-E34,E38-E40,E43-E45, E47-E49,E57-E59,E63-E65,E67-E69, E73-E75,E79-E81,E85-E87,E89-E92, E95-E97			
-	-	54	-	-	-	-	-	E4-E8,E10-E12,E16-E18,E20-E22, E28-E28,E32-E34,E38-E40,E43-E45, E47-E49,E51-E53,E57-E59,E63-E65, E67-E69,E73-E75,E79-E81,E85-E87, E89-E92,E95-E97			
-	84	-	-	-	-	-	-	E9-E12,E15-E22 E25-E28 E31-E34, E37-E40,E42-E48,E56-E59, E62-E69 E72-E75,E78-E81,E84-E87, E89-E92,E94-E97			
72	-	-	-	-	-	-	-	E3-E8,E9-E12,E15-E22,E25-E28, E31-E34,E37-E40,E42-E53,E58-E59, E62-E69 E72-E75,E78-E81,E84-E87, E89-E92,E94-E97			

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
UNIBUS MOS MEMORY	D	CS	M7847-Ø-1	L*
SCALE -/- SHEET 2 OF 16	DIST.			

REV. L
NUMBER M7847-Ø-1
SIZE CODE DCS

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YJ	YH	YF	YE	YD	YC	YB	YA	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO
QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY		PARTS LIST		
1	1	1	1	1	1	1	1	E111	DIP SWITCH	1211184-01	66
6	6	6	6	6	6	6	6		SPLIT LUGS	9008735-00	67
1	1	1	1	1	1	1	1		HANDLE ASSY	1210711-02	68
12	12	12	12	12	12	12	12		EYELET	9008732-00	69
2	2	2	2	2	2	2	2		NUT, KEP #4-40	9008557-00	70
2	2	2	2	2	2	2	2		SCR, PPH, #4-40 x .31	9006010-01	71
A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R		THERMAL COMPOUND	9008268-00	72
A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R		WIRE, #22 AWG BUS	9107560-01	73
A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R		WIRE, #30 AWG WIRE WRAP	9105740-55	74
1	1	1	1	1	1	1	1	C37	CAP 6 μF, 25 V	1012084-01	75
2	2	2	2	2	2	2	2	C147, C148	CAP .47 μF, 25 V, CER	1010279-00	76
1	1	1	1	1	1	1	1	W8	JUMPER, WIRE INSULATED	9009185-00	77
1	1	1	1	1	1	1	1	E120	IC 74LS20	1912818-08	78
REF	REF	REF	REF	REF	REF	REF	REF		DRAWING DIRECTORY	B-DD-M7847-0	79

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
UNIBUS MOS MEMORY	D	CS	M7847-0-1	L
SCALE	SHEET 3 OF 16	DIST.		

M7847-0-1 L
D CS

M7847-0-1 L
D CS

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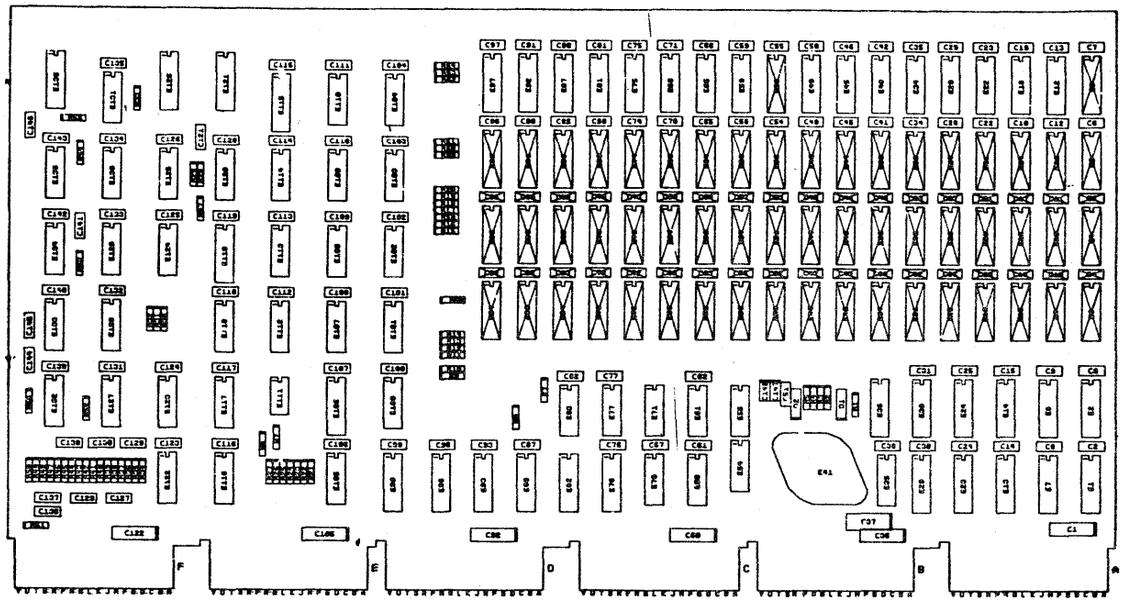
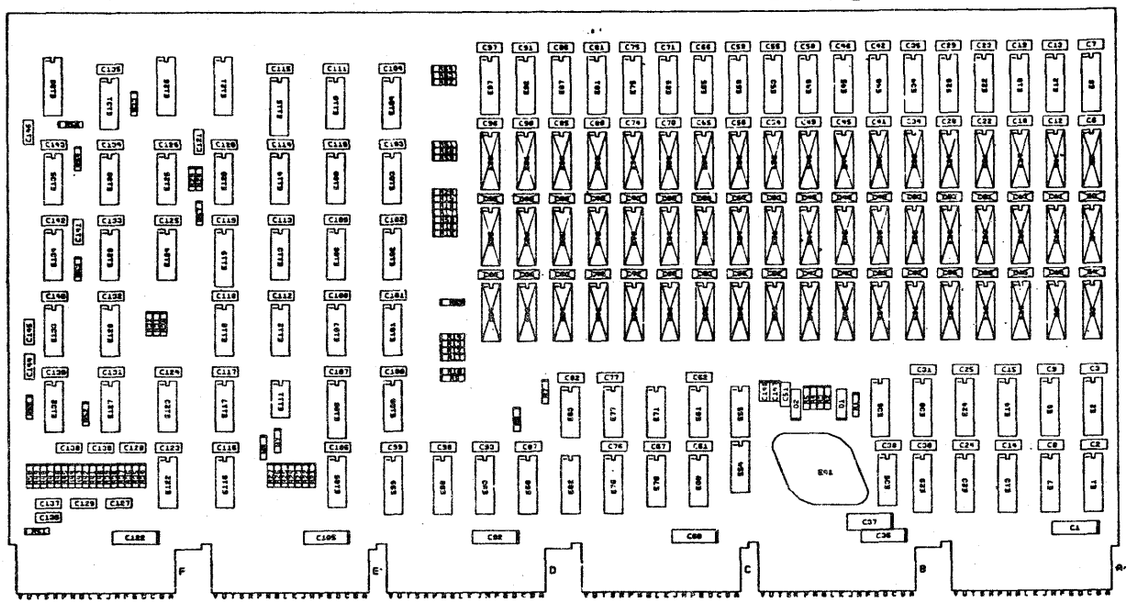
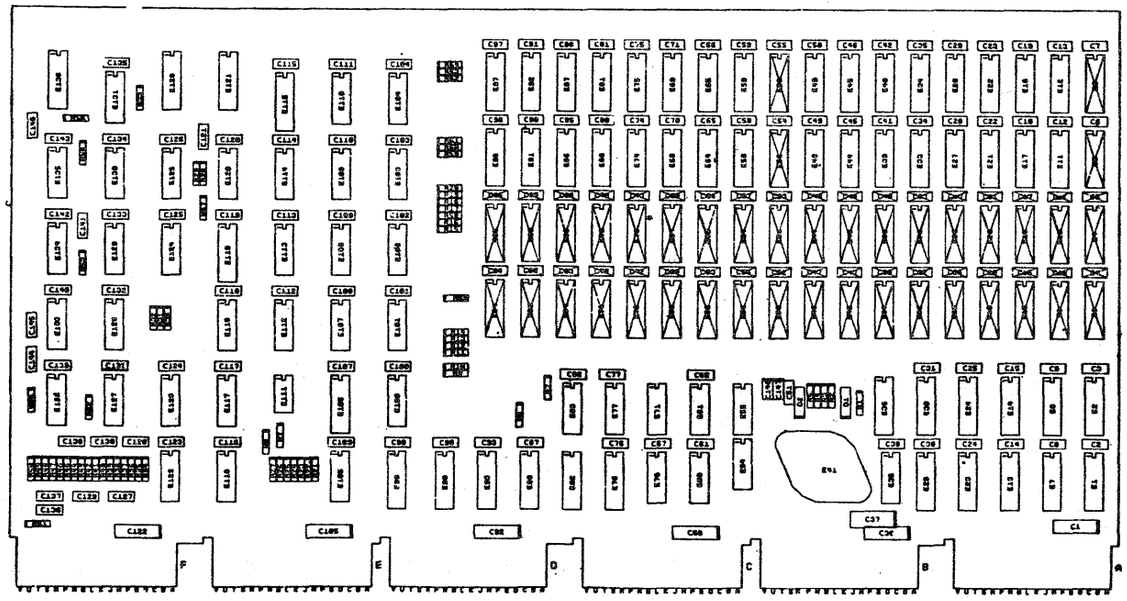
NOTE:
THESE OVERLAYS ONLY TO INDICATE POSITIONS FOR 4K MOS MEMORY IC'S & .22 uF CAPS



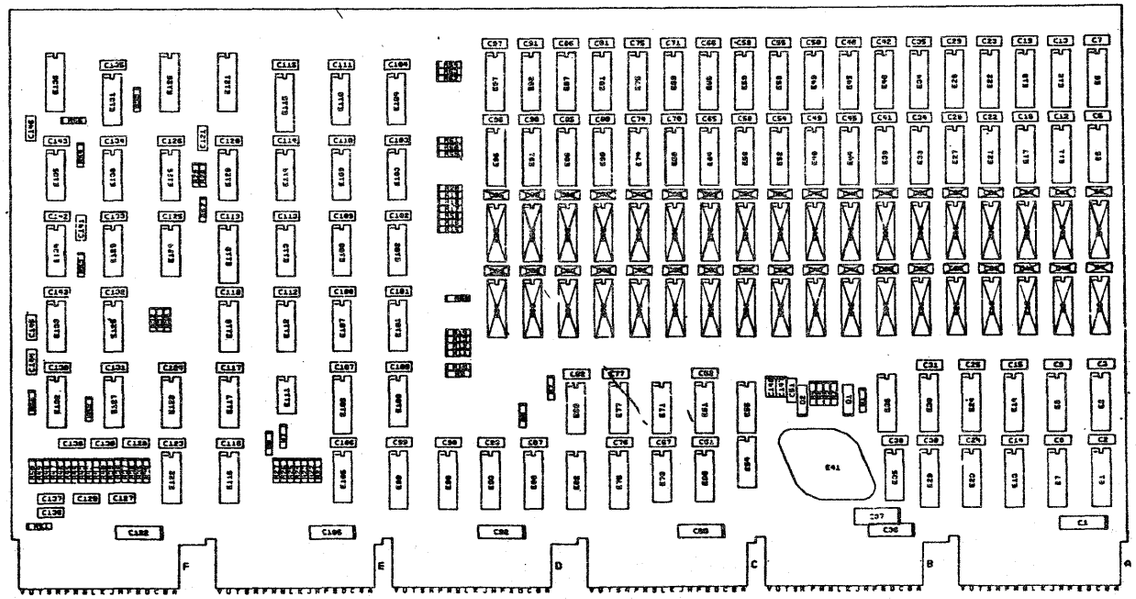
-YA;-BA;-CA;-DA,-EA;-FA;-HA;-JA.



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



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



-YD,-BD,-CD,-DD,-ED,-FD,-HD,-JD.

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
UNIBUS MOS MEMORY	D	CS	M7847-Ø-1	L
SCALE —	SHEET 4 OF 16	DIST.		

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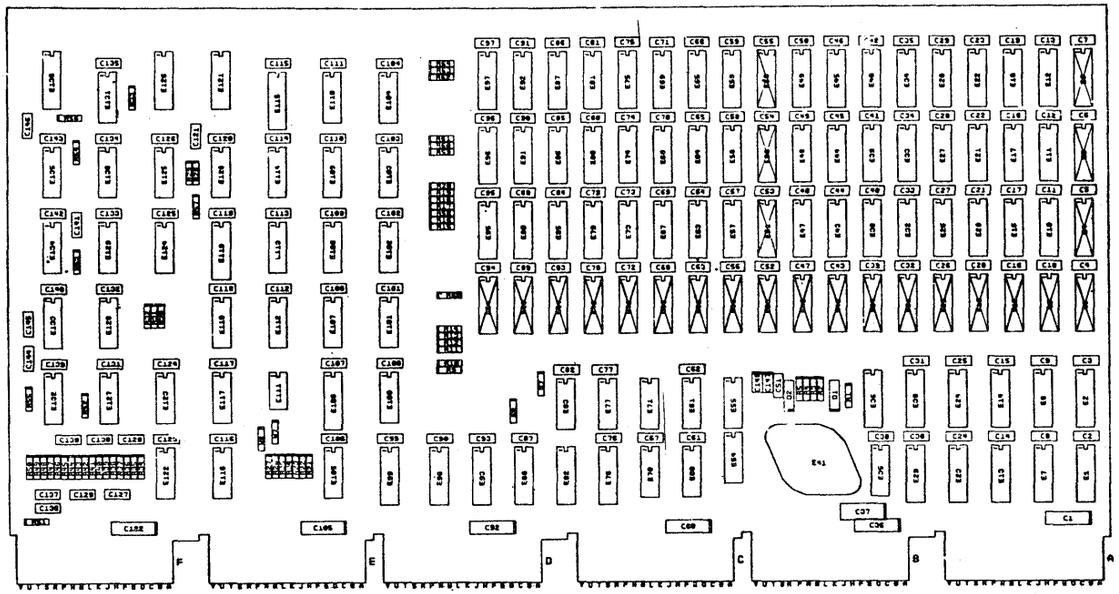
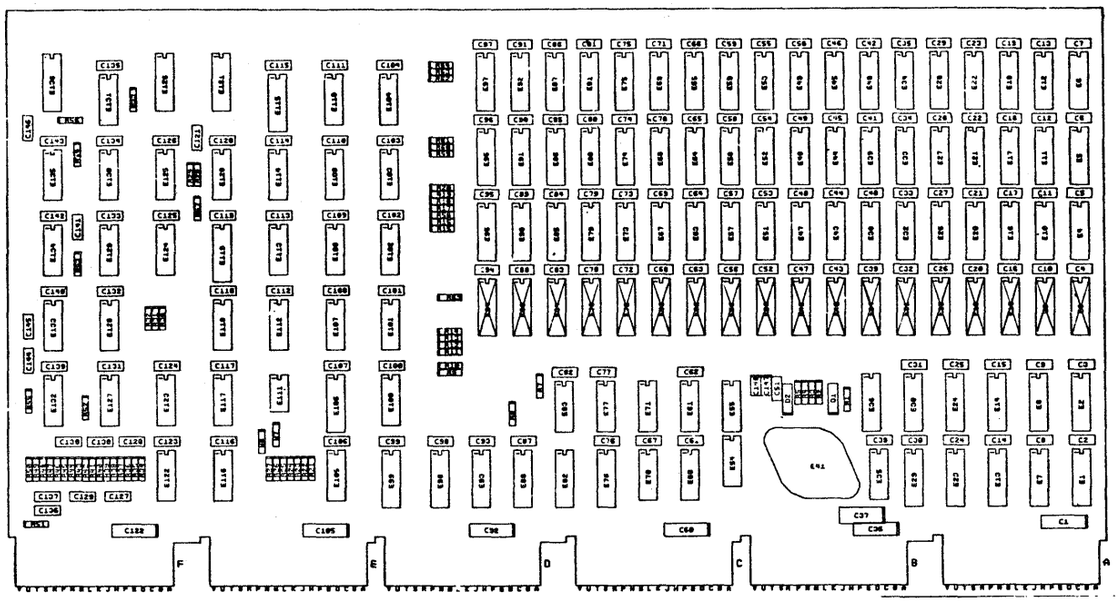
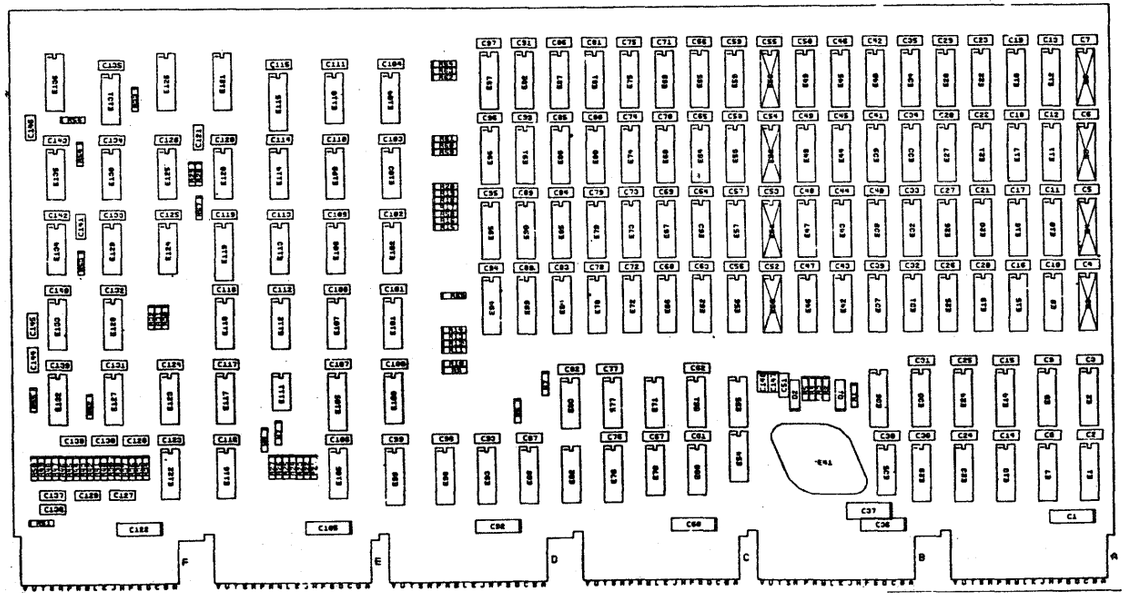
NOTE:
THESE OVERLAYS ONLY TO INDICATE POSITIONS FOR 4K MOS MEMORY IC's AND .22 uF CAPS.



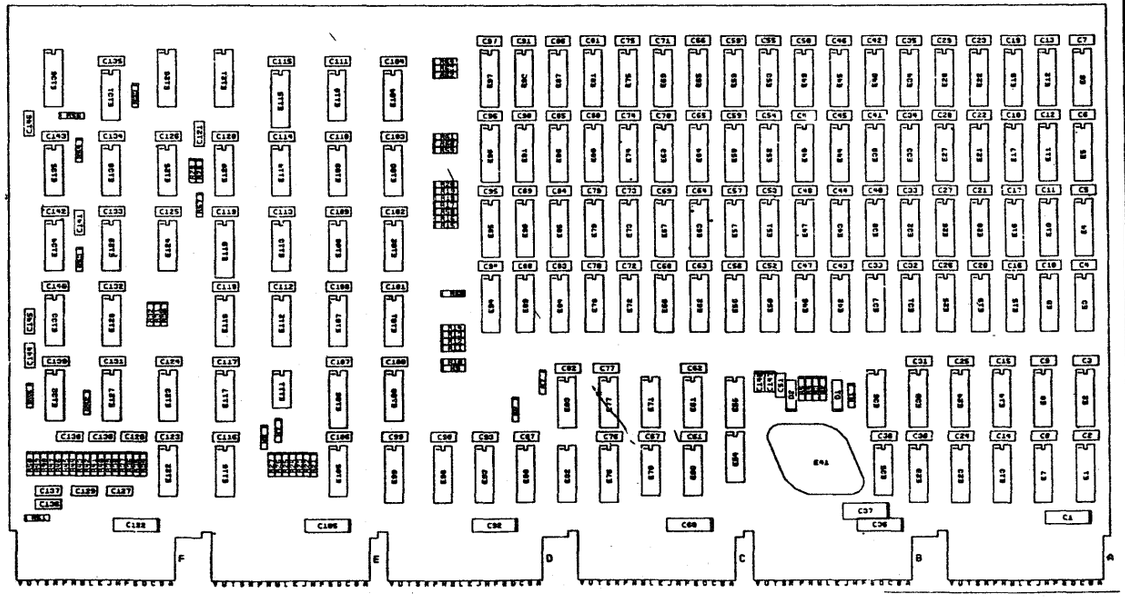
-YE,-BE,-CE,-DE, EE,-FE,-HE,-JE



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



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



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

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
UNIBUS MOS MEMORY	D	CS	M7847-0-1	L
SCALE 1-1 SHEET 5 OF 16	DIST.			

SIZE CODE DCS M7847-0-1 REV. L

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NOTE:
JUMPERS CONNECTED AS FOLLOWS

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

SW DIP E111 — R21–R24, R27 1K — +5V

BUS A17 BS1 · BUS A16 BS2 · BUS A15 BR1 · BUS A14 BR2 · BUS A13 BP1 · BUS C0 L BU2 · BUS MSYN L BV1 · BUS DC LO L BF2 · BUS C1 L BT2 · BUS A20 L BH2

8640 E70 · 8640 E71 · 8640 E61 · 8640 E55 · 8640 E54

AD6 C0 H [DR9] · AD6 MSYN H [TC7] · AD6 C1 L [TC7] · DC LO H · AD6 C1 H [DR9] · AD6 A18 H [DR9]

7486 E117 · 7483 E106 (C4, C0) · 7511 E116 · 7428 E105 · 7404 E129 · 7404 E124

AM8 A12 H · AM8 A11 H · W7 · R26 1K · +5V

R31 1K · R30 1K · R32 1K · R25 1K · +5V

7452 E112 · 7452 E112 · 7452 E118 · 7452 E118

BANK A · BANK B · BANK C · BANK D

W3 W4 · W1 W2 · W5 W6 · W8 W9

7452 E123 — AD6 ADDR PRESENT H [TC7]

7475 E119 (ENB1, ENB2)

AD6 R5A L [DR9] · AD6 R5B L [DR9] · AD6 R5C L [DR9] · AD6 R5D L [DR9]

TC7 ADSTR H — E122 7440

ASSEMBLY VARIATION	W7	W8	W9
FA,HA,JA,FB,HB,JB,FC,HC,JC,BA,CA,DA,EA,BB,CB,DB,EB,BC,CC,DC,EC,BD, FD,HD,JD,FE,HE,JE,FF,HF,JF,CD,DD,ED,BE,CE,DE,EE,BF,CF,DF & EF	OUT	OUT	OUT
FH,HH,JH,FJ,HJ,JJ,BH,CH,DH,EH,BJ,CJ,DJ & EJ NORMAL OPERATION	OUT	IN	OUT
FH,HH,JH,FJ,HJ,JJ,BH,CH,DH,EH,BJ,CJ,DJ & EJ 3K I/O PAGE	OUT	OUT	IN
FH,HH,JH,FJ,HJ,JJ,BH,CH,DH,EH,BJ,CJ,DJ & EJ 3K I/O PAGE	IN	OUT	IN

* A-E MUST BE SET FOR STARTING ADDRESS OF 100 000.

SWITCH SETTINGS

STARTING ADDRESS	SWITCH A	B	C	D	E	STARTING ADDRESS	SWITCH A	B	C	D	E	STARTING ADDRESS	SWITCH A	B	C	D	E	STARTING ADDRESS	SWITCH A	B	C	D	E
0	1	1	1	0	0	200.000	1	0	1	0	0	400,000	0	1	1	0	0	600.000	0	0	1	0	0
20,000	1	1	0	1	1	220.000	1	0	0	1	1	420,000	0	1	0	1	1	620,000	0	0	0	1	1
40.000	1	1	0	1	0	240.000	1	0	0	1	0	440.000	0	1	0	1	0	640,000	0	0	0	1	0
60.000	1	1	0	0	1	260,000	1	0	0	0	1	460,000	0	1	0	0	1	660,000	0	0	0	0	1
100,000	1	1	0	0	0	300,000	1	0	0	0	0	500,000	0	1	0	0	0	700,000	0	0	0	0	0
120.000	1	0	1	1	1	320,000	0	1	1	1	1	520,000	0	0	1	1	1	720,000	1	1	1	1	1
140,000	1	0	1	1	0	340,000	0	1	1	1	0	540,000	0	0	1	1	0	740,000	1	1	1	1	0
160,000	1	0	1	0	1	360,000	0	1	1	0	1	560.000	0	0	1	0	1						

0 = ON
1 = OFF

REVISIONS		
CHK	CHANGE NO.	REV.

(ADDRESS DECODE)

TITLE: UNIBUS MOS MEMORY (AD6) · SIZE D · CODE CS · NUMBER M7847-0-1 · REV. L
SCALE — · SHEET 6 OF 16 · DIST.

M7847-0-1 D CS L

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BB +5V
R29 560
R28 560
R57 18
C121 220PF
74S03 E125
74S03 E125
SRT CLK
REF REQ
TC7 REF WARN L
74S04 E129
74S00 E131
74S20 E123
TC7 BUSY L
TC7 SSYN (Ø) H
AD6 MSYN H
AD6 ADDR PRESENT H
R33 1K
BB+5V
TC7 DAT REG CLR L [DP10, DP11]
74S00 E131
74S00 E131
74S74 E130
*HIGH
TC7 RFCY (1) H [TC7, AM8]
TC7 RFCY (1) L [DR9]
TC7 RFCY (Ø) H [TC7, DR9]
74S04 E129
R56 100
C146 82 PF
74S04 E124
74LS20 E120
TC7 ADSTR H [TC7, AM8, AD6]
74S04 E124
74S04 E124
TC7 RAS H [TC7, DR9]
TP1 DØ1
R36 4.7K
C121 .01UF
R38 1K
BB +5V
R37 1K
*75107 E127
TC7 COLAD H [TC7, AM8, DR9]
TC7 CAS H [TC7, DR9]
*HIGH
BB +5V
R34 6.81 1%
R35 2.7K
74S05 E129
C128 220PF
BB +5V
R40 1.05K 1%
R39 6.8K
74S05 E129
C130 220 PF
REF RST L
BB+5V
R41 1K 1%
R42 4.3K
TC7 RAS H
74S03 E128
C129 220PF
*75107 E133
TC7 BUSY L [TC7, DR9]
*HIGH
74S04 E124
TC7 REFINC H [AM8]
BB +5V
R48 30K
TC7 RFCY (1) H
TC7 COLAD H
74Ø0 E131
74Ø4 E129
74S05 E128
C144 560PF
C145 560PF
74S74 E130
TC7 ENBUS L [DP10, DP11]
CLR STR H
AD6 MSYN H
74S74 E135
TC7 REF WARN L [TC7]
REF CLK L
BB +5V
R45 1K 1%
R46 4.7K
TP2 DR1
C137 .01UF
R47 1K 1%
BB+5V
R43 1.54K 1%
R44 12K
C138 220PF
TC7 CAS H
74S04 E124
74S05 E128
*75107 E132
*HIGH
DR9 LC1(Ø) H
TC7 RFCY (Ø) H
74S10 E134
DR9 LC1(1) H
TC7 COLAD H
74S10 E134
TC7 DLS H [DP10, DP11]
*HIGH
R53 100
C141 220 pf
AD6 MSYN H
74S74 E135
TC7 SSYN (Ø) H [TC7]
8881 E35
BE1
INT SSYN
8881 E35
BE2
PARITY DETECT L
R1 10K
+5V
BUS SSYN
TP3 DU1
R51 4.7K
C136 .01uF
R50 1K 1%
R49 1K 1%
BB +5V
TP4 DS1
R55 1K
+5V
BB +5V
R54 1K
R8 1K
TC7 *HI [AM8, DR9]
TC7 *HIGH [TC7]
R52 1K
TP5 DP1

NOTES:
1. ALL SIGNAL NAMES WITHOUT A * PREFIX HAVE AN ASSUMED PREFIX OF TC7.
2. AN IC MARKED WITH AN * INDICATES THAT THE IC IS ON THE BB+5 VOLTAGE BUS.

REVISIONS		
CHK	CHANGE NO.	REV.

(TIMING CHAIN)

TITLE	SIZE	CODE	NUMBER	REV.
UNIBUS MOS MEMORY (TC7)	D	CS	M7847-Ø-1	L
SCALE	SHEET 7 OF 16		DIST.	

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74197 E83 — DI, D2, D3, D0, CLR, LD, CLK0, CKI; RI(I), R2(I), R3(I), R0(I)
AM8 RA1, AM8 RA2, AM8 RA3, AM8 RA0
TC7 MI, TC1 REF INC H
TC7 HI → 7479 E77 → AM8 RA4
TC7 HI → 7479 E77 → AM8 RA5
BB+5V, R7 1K, TP6, CM1

BUS A12 L	BP2	8640 E56	AM8 A12 H [AD6]	AM8 LA12
BUS A11 L	BN1	8640 E66	AM8 A11 H [AD5]	AM8 LA11
BUS A10 L	BN2	8640 E66		AM8 LA10
BUS A09 L	BM1	8640 E60		AM8 LA09
BUS A08 L	BM2	8640 E61		AM8 LA08
BUS A07 L	BL1	8640 E61		AM8 LA07
BUS A06 L	BL2	8640 E55		AM8 LA06
BUS A05 L	EK1	8640 E54		AM8 LA05
BUS A04 L	BK2	8640 E55		AM8 LA04
BUS A03 L	BJ1	8640 E54		AM8 LA03
BUS A02 L	BJ2	8640 E54		AM8 LA02
BUS A01 L	BH1	8640 E55		AM8 LA01

7475 E76 — DI, DO, D2, D3, ENB1, ENB2; RI(I), R0(I), R1(0), R2(I), R2(0), R3(I), R3(0)
7475 E38 — DO, D1, D3, D2; R0(I), R1(I), R1(0), R3(I), R3(0), R2(I), R2(0)
7475 E82 — D3, D1, D2, D0; R3(I), R3(0), R1(I), R1(0), R2(I), R2(0), R0(I), R0(0)

TC7 ADSTR H → 7440 E122

RA5	LA06	LA12
RA4	LA05	LA11
RA3	LA04	LA10
RA1	LA02	LA08
RA0	LA01	LA07
RA2	LA03	LA09

74S153 E99 → AM8 DA05 [DR9]
74S153 E94 → AM8 DA04 [DR9]
74S153 E93 → AM8 DA03 [DR9]
74S153 E92 → AM8 DA01 [DR9]
74S153 E98 → AM8 DA00 [DR9]
74S153 E91 → AM8 DA02 [DR9]
TC7 RFCY(I) H, TC7 COLAD H

NOTE:
AN IC MARKED WITH AN * INDICATES THAT THE IC IS ON THE BB+5 VOLTAGE BUS.

REVISIONS		
CHK	CHANGE NO.	REV.

(ADDRESS MULTIPLEX)
TITLE: UNIBUS MOS MEMORY (AM8)
SIZE D | CODE CS | NUMBER M7847-0-1 | REV. L
SCALE — | SHEET 8 OF 16 | DIST.

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7475 E115 *

ADG A0 H — 2 D0 — R0(0) 16 — LA0 (0) L
R0(1) 1 — LA0 (1) L
ADG C1 H — 3 D1 — R1(1) 15 — DR9 LC1 (1) H [TC7, DR9]
R1(0) 14 — DR9 LC1 (0) H [TC7]
ADG C0 H — 6 D2 — R2(1) 10
R2(0) 11
7 D3 — R3(1) 9
R3(0) 8
ENB1 13, ENB2 4
TC7 BUSY L

7400 E110 * — 10, 9 — 8
7400 E110 * — 12, 13 — 11
LA0 (0) L, LA0 (1) L

TC7 COLAD H — 9
TC7 RCFY(0) H — 10
7420 E104 * — 12, 13, 3 — 8 — R63 18 — DR9 WB1 L [AR12-AR14]
DR9 LC1 (1) H — 1
7420 E104 * — 2, 5, 4 — 6 — R64 18 — DR9 WB0 L [AR14-AR16]

ADG RSA L — 2
TC7 RFCY(1) L — 1
7400 E113 * — 3
ADG RSB L — 5
7400 E113 * — 6
ADG RSC L — 9
7400 E113 * — 8
ADG RSD L — 12
7400 E113 * — 11
TC7 RAS H

7437 E108 * — 1, 2 — 3 — R62 18 — DR9 RAS A L [AR12-AR16]
7437 E108 * — 4, 5 — 6 — R60 18 — DR9 RAS B L [AR12-AR16]
7437 E108 * — 12, 13 — 11 — R58 18 — DR9 RAS C L [AR12-AR16]
7437 E108 * — 9, 10 — 8 — R65 18 — DR9 RAS D L [AR12-AR16]

TC7 RFCY (0) H — 9
TC7 COLAD H — 10, 13
7400 E114 * — 8 — R59 18 — DR9 CS L [AR12-AR16]

TC7 CAS H — 1, 2
TC7 RAS H — 4, 5
7400 E114 * — 6 — R61 18 — DR9 CAS L [AR12-AR16]

TC7 *H1
AM8 DA05 H — 13, 9, 10, 12
74S140 E100 * — 8 — R9 18 — DR9 A05 A L [AR12-AR16]
74S140 E102 * — 9, 12, 13, 10 — 8 — R15 18 — DR9 A05 B L [AR12-AR16]

AM8 DA04 H — 2, 1, 4, 5
74S140 E100 * — 6 — R10 18 — DR9 A04 A L [AR12-AR16]
74S140 E102 * — 1, 2, 4, 5 — 6 — R16 18 — DR9 A04 B L [AR12-AR16]

AM8 DA03 H — 10, 9, 12, 13
74S140 E107 * — 8 — R11 18 — DR9 A03 A L [AR12-AR16]
74S140 E109 * — 9, 12, 13, 10 — 8 — R17 18 — DR9 A03 B L [AR12-AR16]

AM8 DA02 H — 10, 9, 12, 13
74S140 E101 * — 8 — R13 18 — DR9 A02 A L [AR12-AR16]
74S140 E103 * — 9, 12, 13, 10 — 8 — R19 18 — DR9 A02 B L [AR12-AR16]

AM8 DA01 H — 5, 1, 2, 4
74S140 E107 * — 6 — R12 18 — DR9 A01 A L [AR12-AR16]
74S140 E109 * — 1, 2, 4, 5 — 6 — R18 18 — DR9 A01 B L [AR12-AR16]

AM8 DA00 H — 5, 1, 2, 4
74S140 E101 * — 6 — R14 18 — DR9 A00 A L [AR12-AR16]
74S140 E103 * — 1, 2, 4, 5 — 6 — R20 18 — DR9 A00 B L [AR12-AR16]

-15V — A51 — R2 SEE TABLE — BB2 TP7 — -9V (-5V)
D1 SEE TABLE
CC2

R3 560Ω
R4 560Ω
R5 560Ω
TO PIN 13 ON 75107 (-5V)
D2 IN751A
C51 .22UF

VARIATION	R2 VALUE	D1 VALUE
YA, YB, YC, YD YE, YF, YH, YJ	27Ω	IN 757A 9V
BA, CA, DA, EA, BB, CB, DB, EB, BC, CC, DC, EC, BD, CD, DD, ED, BE, CE, DE, EE, BF, CF, DF, EF, BH, CH, DH, EH, BJ, CJ, DJ, EJ.	560Ω	IN751A -5V

+5V — AP1 — 1 — 7812 E41 — 2 — AB2 TP8 — +12 V
3 — BC2
C147 .47UF — C148 .47UF
C37 8UF

(SPARES)

8881 E35 * — 8, 9 — 10
8881 E35 * — 11, 12 — 13
8640 E71 * — 4, 5 — 3
7486 E117 * — 1, 2 — 3
7486 E117 * — 4, 5 — 6

7400 E110 * — 1, 2 — 3
7411 E116 * — 3, 4, 5 — 6
7411 E116 * — 9, 10, 11 — 8
74S03 E125 * — 9, 10 — 8
74S03 E125 * — 12, 13 — 11

74S05 E128 * — 9 — 8
7404 E129 * — 9 — 8
7404 E129 * — 11 — 10
74LS20 E120 * — 9, 10, 12, 13 — 8

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
UNIBUS MOS MEMORY (DR9)	D	CS	M7847-0-1	L
SCALE —	SHEET 9 OF 16	DIST.		

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74174 E36 — AR12 DO 15 H → DI; R1(I) → DP1Φ DI 15 H [AR12]
74174 E36 — AR12 DO 14 H → D5; R5(I) → DP1Φ DI 14 H [AR12]
74174 E36 — AR12 DO 13 H → D3; R3(I) → DP1Φ DI 13 H [AR12]
CLR CLK

8641-1 E29
AM2 → BUS DI5
AL1 → BUS DI4

74174 E36 — D2 R2(I) → DP1Φ DI 15 H [AR12]; DΦ R0(I) → DP1Φ DI 14 H [AR12]; D4 R4(I) → DP1Φ DI 13 H [AR12]
CLR CLK

74174 E3Φ — AR12 DO 12 H → DI; R1(I) → DP1Φ DI 12 H [AR12]
74174 E3Φ — AR13 DO 11 H → D5; R5(I) → DP1Φ DI 11 H [AR13]
74174 E3Φ — AR13 DO 1Φ H → D3; R3(I) → DP1Φ DI 1Φ H [AR13]
CLR CLK

8641-1 E23
AL2 → BUS DI3
AK1 → BUS DI2
AK2 → BUS DI1
AJ1 → BUS DIΦ

74174 E3Φ — D2 R2(I) → DP1Φ DI 12 H [AR12]; DΦ R0(I) → DP1Φ DI 11 H [AR13]; D4 R4(I) → DP1Φ DI 1Φ H [AR13]
CLR CLK

74174 E24 — AR13 DO Φ9 H → DI; R1(I) → DP1Φ DI Φ9 H [AR13]
74174 E24 — AR13 DO Φ8 H → D5; R5(I) → DP1Φ DI Φ8 H [AR13]
74174 E24 — AR14 DO P1 H → D3; R3(I) → DP1Φ DI P1 H [AR14]
CLR CLK

8641-1 E13
TC7 ENBUS L
AJ2 → BUS DΦ9
AH1 → BUS DΦ8
AN1 → P1

74174 E24 — D2 R2(I) → DP1Φ DI Φ9 H [AR13]; DΦ R0(I) → DP1Φ DI Φ8 H [AR13]; D4 R4(I) → DP1Φ DI P1 H [AR14]
CLR CLK

TC7 DAT REG CLR L
TC7 DLS H

REVISIONS
CHK	CHANGE NO.	REV.

(DATA PATH)

TITLE	SIZE	CODE	NUMBER	REV.
UNIBUS MOS MEMORY (DP10)	D	CS	M7847-Ø-1	L
SCALE —H— SHEET 10 OF 16	DIST.			

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74174 E19

AR19 DO Ø7 H → DI
AR19 DO Ø6 H → D5
AR19 DO Ø5 H → D3
CLR CLK

8641 E13

AH2 → BUS D Ø7

AF1 → BUS D Ø6

AF2 → BUS D Ø5

74174 E19

R1(1) → DP11 DI Ø7 H [AR19]
R5(1) → DP11 DI Ø6 H [AR19]
R3(1) → DP11 DI Ø5 H [AR19]

74174 E8

AR15 DO Ø4 H → DI
AR15 DO Ø3 H → D5
AR15 DO Ø2 H → D3
CLR CLK

8641-1 E7

AE1 → BUS D Ø4

AE2 → BUS D Ø3

74174 E8

R1(1) → DP11 DI Ø4 H [AR15]
R5(1) → DP11 DI Ø3 H [AR15]
R3(1) → DP11 DI Ø2 H [AR15]

74174 E2

AR15 DO Ø1 H → DI
AR16 DO ØØ H → D5
AR16 DO PØ H → D3
CLR CLK

8641-1 E1

TC7 ENBUS L

AD1 → BUS D Ø2

AD2 → BUS D Ø1

AC1 → BUS D ØØ

AP1 → PØ

74174 E2

R1(1) → DP11 DI Ø1 H [AR15]
R5(1) → DP11 DI ØØ H [AR16]
R3(1) → DP11 DI PØ H [AR16]

TC7 DAT REG CLR L
TC7 DLS H

REVISIONS		
CHK	CHANGE NO.	REV.

(DATA PATH)

TITLE UNIBUS MOS MEMORY (DPII)
SIZE D CODE CS NUMBER M7847-Ø-1 REV L
SCALE — SHEET 11 OF 16 DIST.

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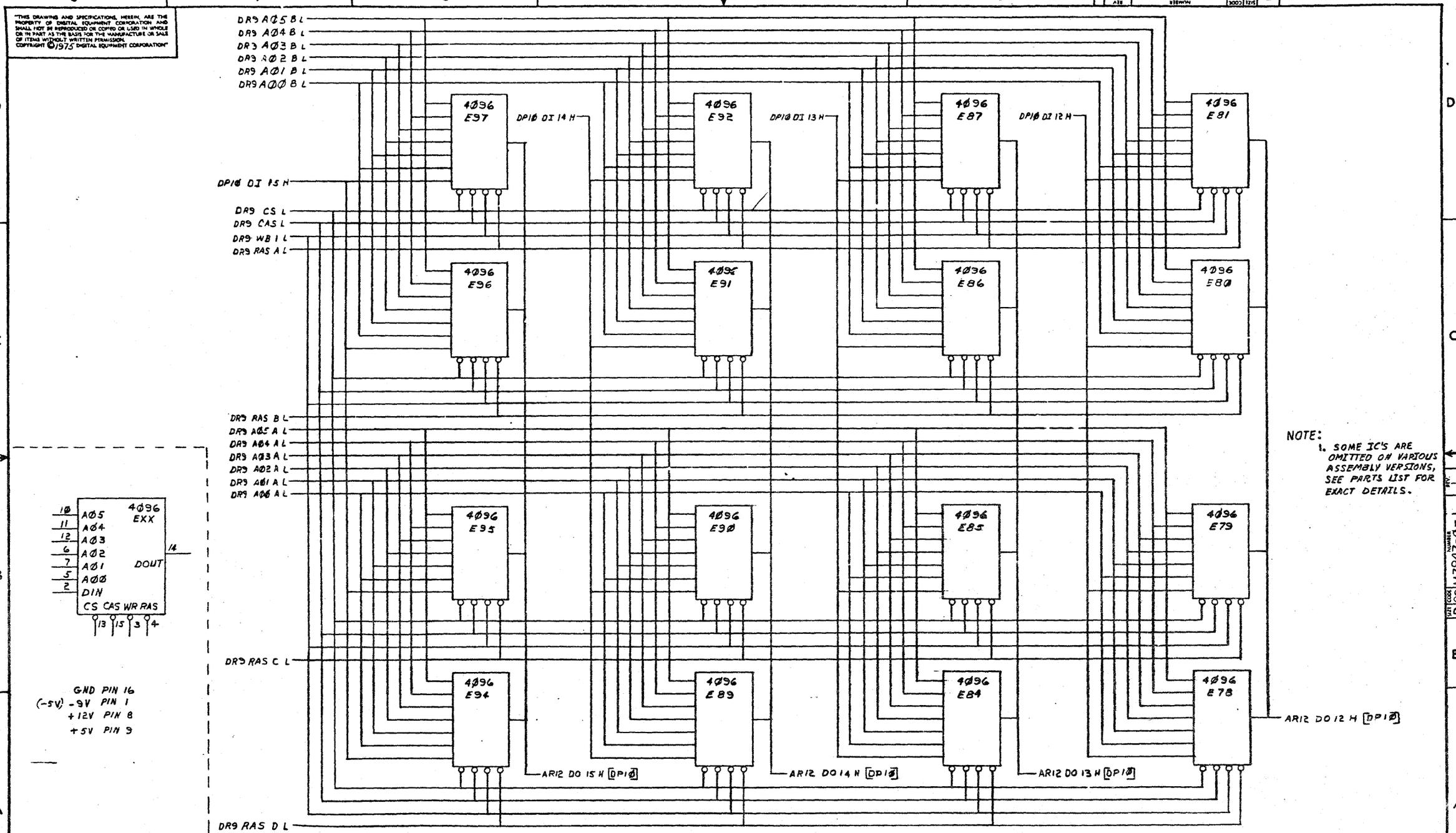

NOTE:
1. SOME IC'S ARE OMITTED ON VARIOUS ASSEMBLY VERSIONS, SEE PARTS LIST FOR EXACT DETAILS.

REVISIONS		
CHK	CHANGE NO.	REV.

(ARRAY)

TITLE	SIZE	CODE	NUMBER	REV.
UNIBUS MOS MEMORY (ARI2)	D	CS	M7847-0-1	L
SCALE ---	SHEET 12 OF 16	DIST.		

CODE CS M7847-0-1 REV. L

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DR9 AØ5 B L
DR9 AØ4 B L
DR9 AØ3 B L
DR9 AØ2 B L
DR9 AØ1 B L
DR9 AØØ B L

DPIØ DI 1ØH
DPIØ DI Ø9H
DPIØ DI Ø8H
DPIØ DI 11H

DR9 CS L
DR9 CAS L
DR9 WBI L
DR9 RAS A L

4096 E75
4096 E69
4096 E65
4096 E59
4096 E74
4096 E68
4096 E64
4096 E58

DR9 RAS B L
DR9 AØ5 A L
DR9 AØ4 A L
DR9 AØ3 A L
DR9 AØ2 A L
DR9 AØ1 A L
DR9 AØØ A L

4096 E73
4096 E67
4096 E63
4096 E57
4096 E72
4096 E66
4096 E62
4096 E56

DR9 RAS C L

AR13 DO 11H [DPIØ]
AR13 DO 1ØH [DPIØ]
AR13 DO Ø9H [DPIØ]
AR13 DO Ø8H [DPIØ]

DR9 RAS D L

4096 EXX
1Ø AØ5
11 AØ4
12 AØ3
6 AØ2
7 AØ1
5 AØØ
2 DIN
DOUT 14
CS 13 CAS 15 WR 3 RAS 4

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

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

REVISIONS		
CHK	CHANGE NO.	REV.

(ARRAY)

TITLE UNIBUS MOS MEMORY (AR13)
SIZE D CODE DCS NUMBER M7847-Ø-1 REV E
SCALE SHEET 13 OF 16 DIST.

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DR9 AØ5 B L
DR9 AØ4 B L
DR9 AØ3 B L
DR9 AØ2 B L
DR9 AØ1 B L
DR9 AØØ B L

DPIØ DI PI H

DR9 CS L
DR9 CAS L
DR9 WBI L
DR9 RAS A L

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

DR9 RAS B L
DR9 AØ5 A L
DR9 AØ4 A L
DR9 AØ3 A L
DR9 AØ2 A L
DR9 AØ1 A L
DR9 AØØ A L

4Ø96 EXY
10 AØ5
11 AØ4
12 AØ3
6 AØ2
7 AØ1
5 AØØ
2 DIN
CS CLS WRRAS
13 15 3 4
14 DOUT

DR9 RAS C L

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

DR9 RAS D L

E53	E49	E45
E52	E48	E44
E51	E47	E43
E50	E46	E42

DPII DI ØH
DPII DI Ø7 H
DPII DI Ø6 H
DPII DI Ø5 H

E40	E39	
E38	E37	

ARIA DO PI H [DPIØ]
ARIA DO Ø7 H [DPII]
ARIA Ø6 H [DPII]
ARIA DO Ø5 H [DPII]

DR9 WB Ø L

REVISIONS		
CHK	CHANGE NO.	REV.

(ARRAY)
TITLE UNIBUS MOS MEMORY (AR14)
SIZE D CODE CS NUMBER M7847-Ø-1 REV. E
SCALE SHEET 14 OF 16 DIST.

SIZE CODE DCS M7847-Ø-1 REV. L

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

DR9 A Ø5 B L
DR9 A Ø4 B L
DR9 A Ø3 B L
DR9 A Ø2 B L
DR9 A Ø1 B L
DR9 A Ø Ø B L

DPII DI Ø4 H
DR9 CS L
DR9 CAS L
DR9 WB Ø L
DR9 RAS A L

DR9 RAS B L
DR9 A Ø5 A L
DR9 A Ø4 A L
DR9 A Ø3 A L
DR9 A Ø2 A L
DR9 A Ø1 A L
DR9 A Ø Ø A L

DR9 RAS C L

DR9 RAS D L

4Ø96 E34 — DPII DI Ø3 H
4Ø96 E28 — DPII DI Ø2 H
4Ø96 E22 — DPII DI Ø1 H
4Ø96 E18
4Ø96 E33
4Ø96 E27
4Ø96 E21
4Ø96 E17
4Ø96 E32
4Ø96 E26
4Ø96 E2Ø
4Ø96 E16
4Ø96 E31 — ARIS DO Ø4 H [DPII]
4Ø96 E25 — ARIS DO Ø3 H [DPII]
4Ø96 E19 — ARIS DO Ø2 H [DPII]
4Ø96 E15 — ARIS DO Ø1 H [DPII]

4Ø96 EXX
10 AØ5
11 AØ4
12 AØ3
6 AØ2
7 AØ1
5 AØØ
2 DIN
14 D OUT
CS CAS WR RAS
13 15 3 4

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

REVISIONS		
CHK	CHANGE NO	REV

TITLE UNIBUS MOS MEMORY (ARRAY) (ARIS)
SIZE D CODE CS NUMBER M7847-Ø-1 REV. L
SCALE — SHEET 15 OF 16 DIST

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

4096 E6
4096 E12
DP11 DI 00 H
DP11 DI P0 H

DR9 CS L
DR9 CAS L
DR9 WB0 L
DR9 RAS A L

4096 E5
4096 E11

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

4096 E4
4096 E10

DR9 RAS C L

4096 E3
4096 E9

AR16 DO 00 H [DP11]
AR16 DO P0 H [DP11]

DR9 RAS D L

4096 EXX
10 A05
11 A04
12 A03
6 A02
7 A01
5 A00
2 DIN
DOUT → 14
CS 13 CLS 15 WR 3 RAS 4

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

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

REVISIONS		
CHK	CHANGE NO	REV

(ARRAY)

TITLE		SIZE	CODE	NUMBER	REV
UNIBUS MOS MEMORY	(AR16)	D	CS	M7847-0-1	L
SCALE	SHEET 16 OF 16	DIST.			

8 7 6 5 4 3 2 1

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B-TC-MM11-DP-3

TABLE OF CONTENTS

MM11-DP PRINT SET
TABLE OF CONTENTS

B-DD-MM11-DP	DRAWING DIRECTORY
D-CS-G652-Ø-1	16K X 18 BIT CORE MEMORY
D-TD-MM11-DP-2	TIMING DIAGRAM
D-UA-MM11-DP-Ø	MM11-DP MEMORY MODULE ASSY
B-DD-H222-Ø	DRAWING DIRECTORY
D-CS-5411554-Ø-1	H222 STACK BOARD
D-UA-H222-A-Ø	H222 CORE MEMORY STACK ASSY
D-CS-M785Ø-0-1	PARITY CONTROLLER
D-UA-5411554-0-0	16K MEMORY STACK
A-PL-5411554-0-0	16K MEM. STK. PARTS LIST

UNIT VARIATIONS COVERED BY THIS PRINT SET
MM11-DP
MM11-D

MM11-DP

Field Maintenance Print Set

Digital Equipment Corporation

PRINT SET ORDER NO.
MP 00032

REVISIONS		
REV.	CHG. NO.	DATE
A	MM11DP-1	MAY-76
B	MM11DP-2	FEB-77
—		

USED ON OPTION/MODEL

SHEET I OF 1

DRN. W. LUFKIN	DATE 24/OCT/75	
CHK'D W. Lufkin	DATE 24/OCT/75	
PROJ. ENG. D. Lawlor	DATE 10/28/75	
FIELD SERV. Ed Moore	DATE 10/29/75	

digital

TITLE: MM11-DP MEMORY MODULE

SIZE	CODE	NUMBER	REV.
B	TC	MM11-DP-3	B
DIST.			

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

DRAWING DIRECTORY

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CUSTOMER PRINT SET INDEX

SEQUENCE SEQUENCE

NOTE: FOR FIELD MAINTENANCE PRINT SET SEE:

B-TC-MM11-DP-3

THIS IS PRINT SET

UNIT VARIATIONS		PRINT SET
VAR	TITLE	
MM11-DP	16K X 18 BIT MEMORY/MODULE	
MM11-D	16K X 16 BIT MEMORY/MODULE	

REVISIONS		
DATE	CHG. NO.	REV
MAY-76	MM11DP-1	A
FEB-77	MM11DP-2	B
FEB-~~78~~	MM11DP-3	C

USED ON OPTION/MODEL

DRN. W.LUFKIN	DATE 24OCT75	TITLE: MM11-DP MEMORY MODULE
CHK'D W.Lufkin	DATE 24OCT75	
PROJ ENG. D.Lucas	DATE 10/29/75	
PROD. R.A.Hill	DATE 10/29/75	SIZE B / CODE DD / NUMBER MM11-DP / REV C
FIELD SERV. [illegible]	DATE 11/4/75	DIST

SHEET 1 OF 2

DEC 16-12281-1062-1A-R92

DRB 106

ML3

ELECTRICAL

CUSTOMER PRINT SET	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
			B-TC-MM11-DP -3	#		MM11-DP FIELD MAINT. PRINT SET	
			MPØØØ32			MM11-DP PRINT SET	
			B-DD-MM11-DP			MM11-DP DRAWING DIRECTORY	
			D-TD-MM11-DP-2		2	MM11-DP TIMING DIAGRAM	
			D-CS-G652-Ø-1		-	16K X 18 BIT CORE MEMORY	

MECHANICAL

CUSTOMER PRINT SET	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO / FILE DATE
			D-UA-MM11-DP-Ø		1	MM11-DP MEMORY MODULE ASSY	
			D-UA-H222-A-Ø		1	H222 MEMORY STACK ASSY	
			K-PL-MM11DP-DBP		1		

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		SIZE	CODE	NUMBER	REV
MM11-DP MEMORY MODULE	SHEET 2 OF 2	B	DD	MM11-DP	C

ML2

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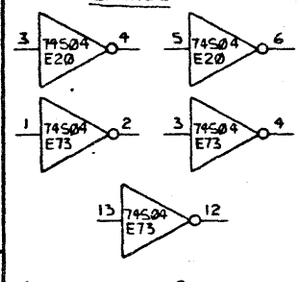
BANK SELECTION						
S.A. INTERLEAVED	S.A. NON-INTERLEAVED	EA21	W1	W2	W3	W4
—	Ø	16K	OUT	OUT	OUT	IN
—	8K	24K	CUT	OUT	IN	OUT
Ø	16K	32K	OUT	OUT	IN	IN
8K	24K	40K	CUT	IN	CUT	OUT
16K	32K	48K	OUT	IN	OUT	IN
24K	40K	56K	OUT	IN	IN	OUT
32K	48K	64K	CUT	IN	IN	IN
40K	56K	72K	IN	OUT	OUT	OUT
48K	64K	80K	IN	OUT	OUT	IN
56K	72K	88K	IN	OUT	IN	OUT
64K	80K	96K	IN	OUT	IN	IN
72K	88K	104K	IN	IN	OUT	OUT
80K	96K	1.2K	IN	IN	OUT	IN
88K	104K	120K	IN	IN	IN	OUT
96K	112K	124K	IN	IN	IN	IN

SPARES:

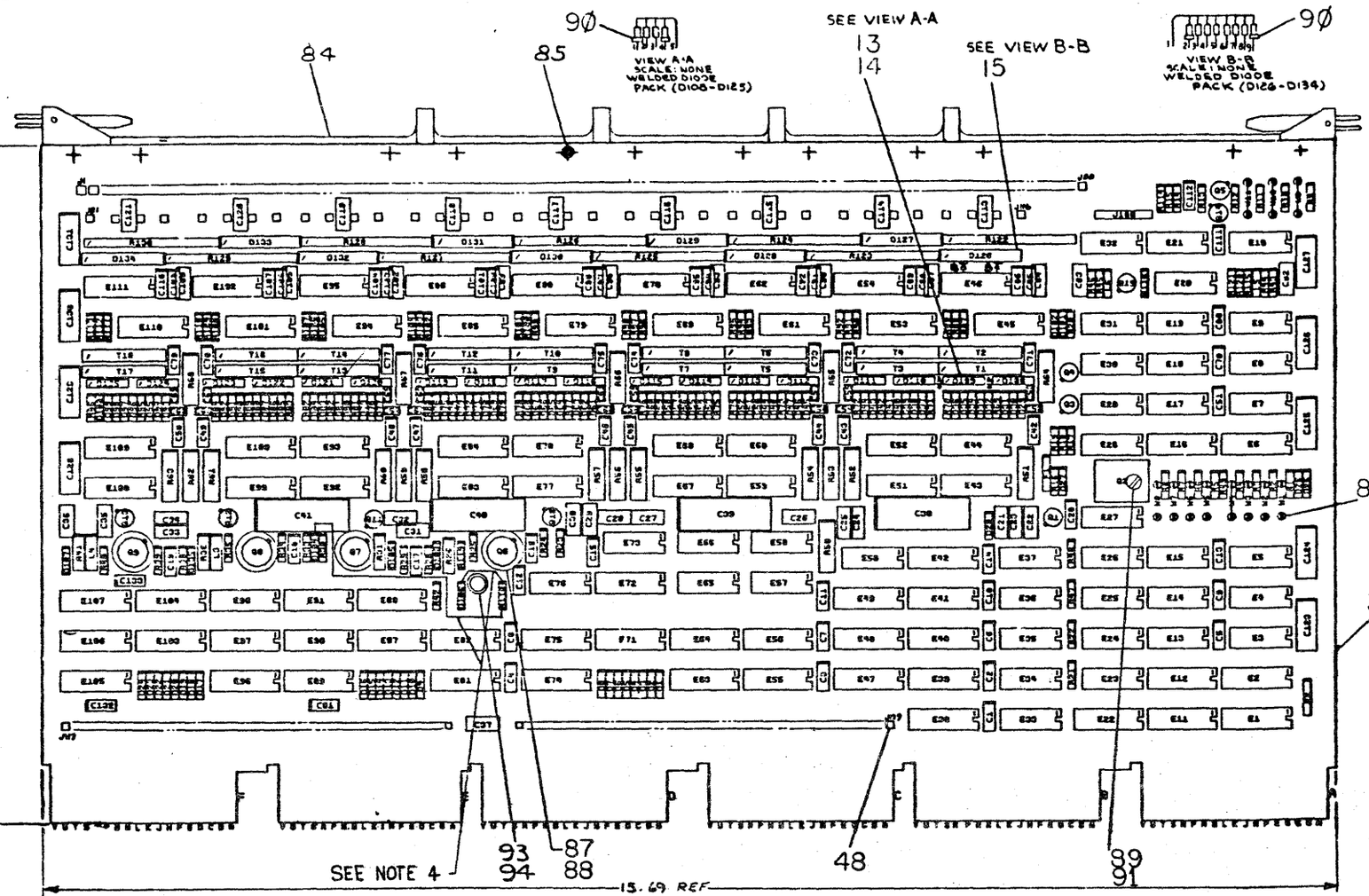


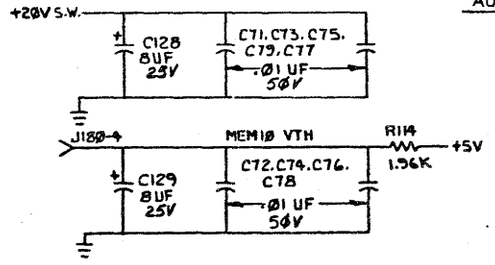
NOTES:

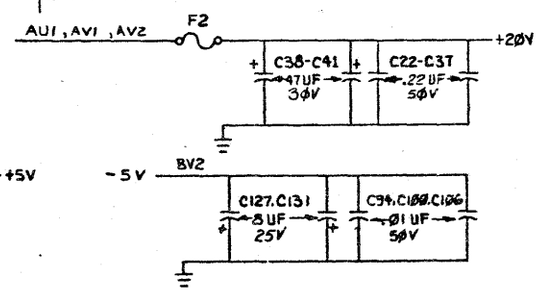
1. INTERLEAVE CONTROL IS ACHIEVED AS FOLLOWS:
   (A) NON-INTERLEAVED
   W5.WG OUT
   (B) INTERLEAVED
   W5 IN, WG OUT } ONE MEMORY
   W5 OUT, WG IN } THE OTHER MEMORY
   (C) ADDRESS JUMPERS FOR THE COMBINED INTERLEAVED MEMORY ARE NOT THE SAME AS FOR THE NON-INTERLEAVED CASE (W1 THRU W4 MUST BE CUT THE SAME FOR BOTH INTERLEAVED MEMORIES). SEE BANK SELECTION CHART AT LEFT FOR BOTH INTERLEAVED AND NON-INTERLEAVED CASES.
2. UNDER NORMAL CONDITIONS (W8 OUT) THE MEMORY WILL NOT RESPOND TO ADDRESSES BETWEEN 124K AND 128K, BECAUSE THESE ADDRESSES ARE RESERVED FOR PERIPHERAL DEVICES ON THE UNIBUS. FOR SPECIAL APPLICATIONS WHERE THE RANGE OF PERIPHERAL ADDRESSES IS MORE RESTRICTED THAN THIS 4K RANGE THE MEMORY CAN BE CONFIGURED TO INCLUDE THE ADDITIONAL UNIBUS ADDRESSES AS FOLLOWS:
   W8 IN, W7 OUT } 124K TO 126K
   W8 IN, W7 IN } 124K TO 127K
   NOTE THAT FOR SYSTEMS WITHOUT MEMORY MANAGEMENT THIS MEANS THE USEFUL VIRTUAL ADDRESS SPACE FOR MEMORY CAN BE EXTENDED FROM 28K TO 30K OR 31K, BY SACRIFICING SOME PERIPHERAL SPACE.
   CAUTION
   SOME DIGITAL SOFTWARE MAY NOT BE COMPATABLE WITH THE REDUCED PERIPHERAL ADDRESS SPACE. TO ASSURE COMPATIBILITY W8 MUST BE OUT.
3. SCHEMATIC FOR H222 MEMORY STACK IS SHOWN ON CS 5411554-0-1.
   NOTES CONTINUED ON SHEET 2

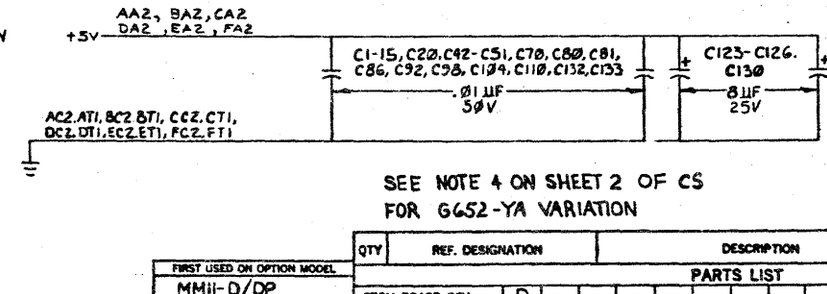
MEM3 BIT 16 EIT LOCK OUT	J18
BB2	J152 STACK XY
J180-7	J179 STACK XY LO
J180-5	J180 STACK XY HI
+2ØV	J153
+5V	J155
MEM1 X STACK CHG H	J149
MEM2 Y STACK CHG H	J150
CE1	J151 STACK V REF
GND J9	J60 GND
GND J26	J77 GND
GND J95	J154 GND

J180-1	+5V
J180-2	STROBE
J180-3	GND
J180-4	VTH
J180-5	STACK XY HI
J180-6	GND
J180-7	STACK XY LO









BUS GRANT LINES	
DK2	DL2
DM2	DN2
DP2	DR2
DS2	DT2

SEE NOTE 4 ON SHEET 2 OF CS FOR G652-YA VARIATION

8890	1	8	
8641	8	16	
75325	8	9	16
7520	9	16	
74157	8	16	
74153	8	16	
7483	12	5	
7475	12	5	
7442	8	16	
IC TYPE	GND	+5V	+20VSW

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

IC PIN LOCATIONS

FIRST USED ON OPTION MODEL: MMII-D/DP

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.

PARTS LIST

ETCH BOARD REV. D

REVISIONS	CHG	CHANGE NO.	DATE	ORIG.
J		G652-00001	3/4/76	D. SMELSER
H		G652-MI005	10-10-77	D. SMELSER
F		G652-00004	4 OCT 77	D. SMELSER
E		G652-00003	5/3/76	D. SMELSER
D		G652-00002	4/1/77	D. SMELSER
C		G652-00001	3/4/76	D. SMELSER

R. GIVEN

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

SEMICONDUCTOR CONVERSION CHART

		DATE
ORIG.	Robert Kasanof	6-9-75
CH'D		7/17/75
ENG.	D. Smelser	7/31/75
PROJ. ENG.		7/31/75
PROD.	R.A. Hill	7/31/75

NEXT HIGHER ASSY: #

SCALE: #

SHEET 1 OF 11

digital

TITLE: 16K X 18 MEMORY ELECTRONICS

SIZE D | CODE CS | NUMBER G652-Ø-1 | REV. J

DIST.

ML2

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NOTES:

4 G652-YA VARIATION :
ETCH CUT #1 SIDE 1 BETWEEN BOTTOM OF R118 AND FEEDTHRU.
ETCH CUT #2 SIDE 2 BETWEEN TOP OF R118 AND E76 PIN 10.
ETCH CUT #3 SIDE 2 BETWEEN CATHODE OF DIØ4 AND CATHODE OF DIØ5.
COMPONENT CHANGE, RESISTOR, R118 CHANGED FROM 750Ω TO 22Ω 1/4W 5%.
RESISTOR, R41 CHANGED FROM 11Ω TO 12Ω 1W, 1%.
JUMPER #1 FROM CATHODE OF DIØ4 TO BOTTOM OF R118
JUMPER #2 FROM CATHODE OF DIØ6 TO TOP OF R118
JUMPER WIRE PART # 30 AWG GRN 9Ø5740-55

5. G652-YA WILL NOT OPERATE WITH H222-A'S & B'S.
G652 WILL NOT OPERATE WITH H222-YA'S & YB'S.

6. SEE K-PL-GG52-Ø-DBP.

DCS G652-Ø-1 J

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MEM2 RAW A12 H
MEM2 RAW A11 H
MEM1 A17 H
MEM1 A15 H
MEM2 RAW A13 H
MEM2 RAW A14 H
MEM1 A16 H
MEM1 SSYN L
MEM1 MSYN H
MEM1 NOT BUSY H
BANK SEL H
MEM1 RØ H
RØL
MEM1 A16 H
MEM1 A17 H
MEM1 A15 H
MEM2 RAW A14 H
MEM2 RAW A01 H
MEM2 RAW A01 L
MEM1 A15 H
- MEM1 LEAST BIT H
INTERLEAVE
BUS A17 L
BUS A16 L
BUS A15 L
BUS A01 L
MEM1 A17 H
MEM1 A16 H
MEM1 A15 H
MEM1 RAW A01 H
BUS DCLØ L
MEM1 RØ H
MEM1 LOCK MAR H
BUS MSYN L
MEM1 MSYN H
MEM1 RAW A01 H
MEM1 RAW A01 L
+20V SW
READ
WRITE
MEM1 X READ SOURCE T L
MEM1 READ SINK T L
MEM1 X READ I SOURCE T H
MEM1 STROBE EN L
MEM2 WR BYTEØ L
MEM2 WR BYTE1 L
MEM1 INPUT MDR Ø H
MEM1 INPUT MDR 1 H
MEM1 CLR MDR L
MEM1 SSYN H
MEM1 SSYN L
MEM1 OUTPUT EN L
MEM1 MSYN H
MEM1 INH TØ L
MEM1 INH T1 L
MEM1 X WRITE SINK T L
MEM1 X WRITE I SOURCE H
J149
MEM1 X STACK CHG H
MEM1 X WRITE SOURCE T L
MEM1 INH RT L
MEM1 NOT BUSY H
MEM1 LOCK MAR1 L
MEM1 LOCK MAR2 L
MEM2 WR BYTEØ L
MEM2 WR BYTE1 L
MEM1 STBØ H
MEM1 STB1 H
J180-2

REVISIONS		
CHK	CHANGE NO.	REV.

(TIMING & CONTROL)

TITLE 16K X18 MEMORY ELECTRONICS (MEM1)
SIZE D CODE CS NUMBER G652-Ø-1 REV. J
SCALE — SHEET 3 OF 11 DIST.
ML2

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T475 E39
MEM1 LEAST BIT H
BUS A04 L BK2
8640 E33
BUS A03 L BJ1
8641 E22
BUS A02 L BJ2
MEM1 OUTPUT EN L
8641 E22
MEM2 A01 H
MEM2 A04 H
MEM2 A03 H
MEM2 A02 H

T475 E40
BUS A08 L BM2
BUS A06 L BL2
BUS A05 L BK1
BUS A07 L BL1
8640 E34
8640 E33
8640 E33
8640 E33
MEM1 LOCK MAR 1 L
MEM2 A08 H
MEM2 A06 H
MEM2 A05 H
MEM2 A07 H

T475 E41
MEM2 RAW 12 H
BUS A12 L BP2
BUS A09 L BM1
BUS A10 L BN2
BUS A11 L BN1
8640 E35
8640 E34
8640 E34
8640 E34
MEM2 RAW 11 H
MEM2 A12 H
MEM2 A09 H
MEM2 A10 H
MEM2 A11 H

T475 E42
MEM2 RAW A0 H
MEM2 RAW C0 H
MEM2 RAW C1 H
BUS A14 L BR2
BUS A13 L BP1
MEM2 RAW 14 H
MEM2 RAW 13 H
MEM1 LOCK MAR 2 L
MEM2 WR BYTE 0 L
MEM2 WR BYTE 1 L
MEM2 A13 H
MEM2 A13 L

T415T E72
MEM1 X WRITE SINK T L
MEM1 X READ SINK T L
MEM1 X WRITE SOURCE T L
MEM1 X READ SOURCE T L
MEM2 A14 B0 H
74S04 E73
J150
MEM2 Y I SOURCE DIODE END T H
MEM2 Y STACK CHG H
MEM2 Y COMMON SINK T L
MEM2 Y DIODE SOURCE T L
74S34 E73
MEM2 Y I SOURCE COMMON END T H
MEM2 Y DIODE SINK T L
MEM2 Y COMMON SOURCE T L

BUS SSYN L BU1
MEM1 SSYN H
BUS C0 L BU2
BUS C1 L BT2
BUS A0 L BH2
8641 E38
MEM2 RAW C0 H
MEM2 RAW C1 H
MEM2 RAW A0 H

+3V
R22 10K
R21 10K
PARITY DETECT L BE2
74S03 E23
BE1 INT SSYN L

MEM1 X READ I SOURCE T H
7406 E76
+20V
R38 1K
C19 120PF
R39 10K
Q13 4258
R40 100
Q9 2N3762
R41 SEE NOTE 4 1W
L4 0.47 UH
D107 D672
X-READ I.G.
R42 30
R26 11 1W

MEM2 Y I SOURCE COMMON END T H
7406 E76
R23 1K
C16 120PF
R24 10K
Q10 4258
R25 100
Q6 2N3762
D103 D672
Y-COMMON END I.G.

MEM1 X WRITE I SOURCE T H
7406 E76
R33 1K
C18 120PF
R34 10K
Q12 4258
R35 100
Q8 2N3762
L3 0.47UH
R36 12 1W
+20V
C37 0.22 UF
J151
CE1
STACK V REF
D135 D672
X-WRITE I.G.

MEM2 Y I SOURCE DIODE END T H
7406 E76
R28 1K
C17 120PF
R29 10K
Q11 4258
R30 100
Q7 2N3762
R31 13 1W
D104 D672
CUT ETCH
R119 47
D105 1N4742 12V
D106 1N4738A 8.2V
MEM1 X READ I SOURCE T H
7406 E76
R118
Y-DIODE END I.G.
CUT ETCH
ADD JUMPER
ADD JUMPER
FOR YA VARIATION SEE NOTE 4

(MAR & CURRENT SOURCES)

REVISIONS
CHK | CHANGE NO. | REV.

TITLE 16K x 18 MEMORY ELECTRONICS (MEM2)
SIZE D | CODE CS | NUMBER G652-0-1 | REV. J
SCALE | SHEET 4 OF 11 | DIST.
ML2

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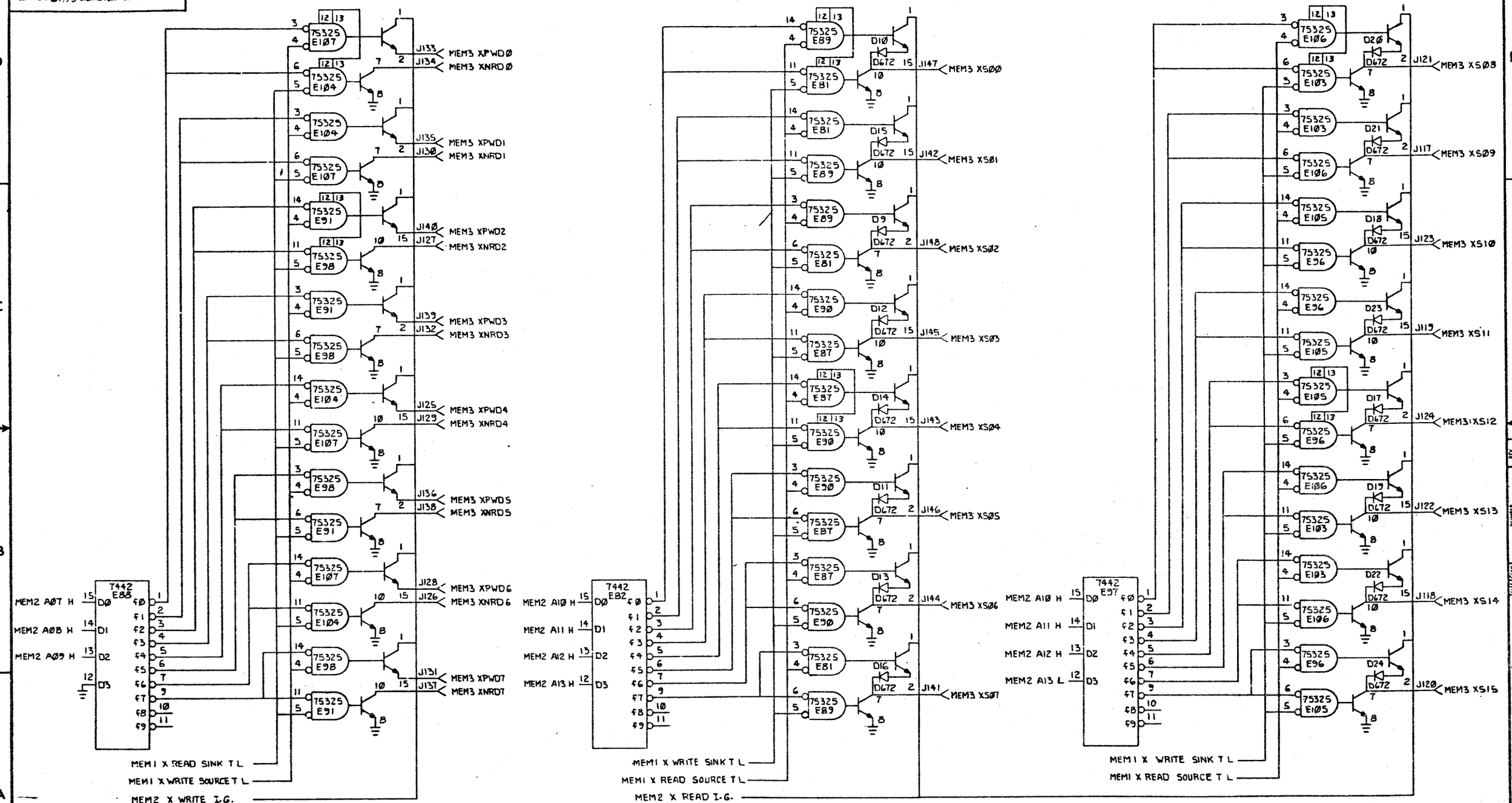

REVISIONS		
CHK	CHANGE NO.	REV.

(X DRIVE)

TITLE	SIZE	CODE	NUMBER	REV.
16K x 18 MEMORY ELECTRONICS (MEM3)	D	CS	G652-0-1	J
SCALE —	SHEET 5 OF 11	DIST.		

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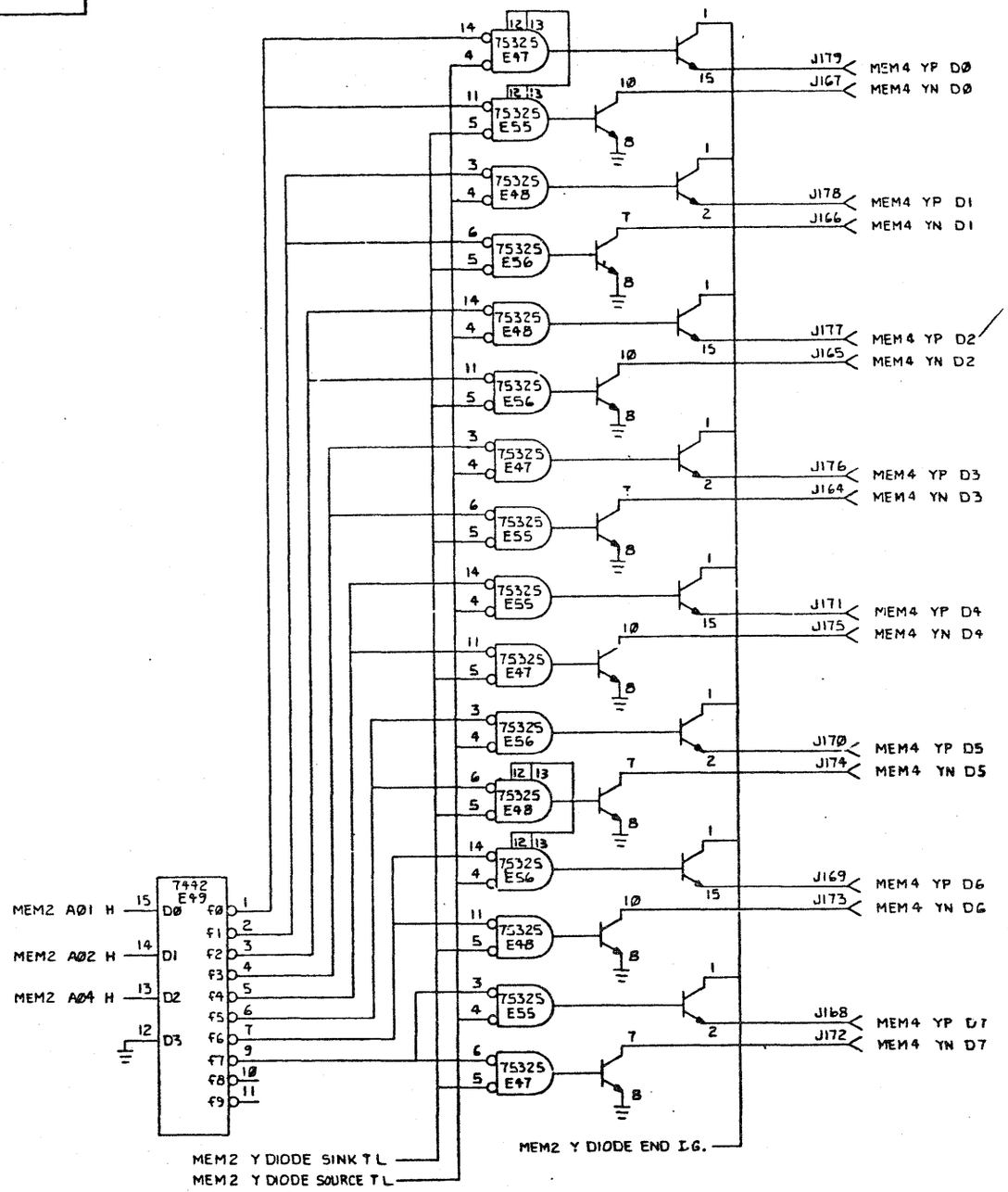

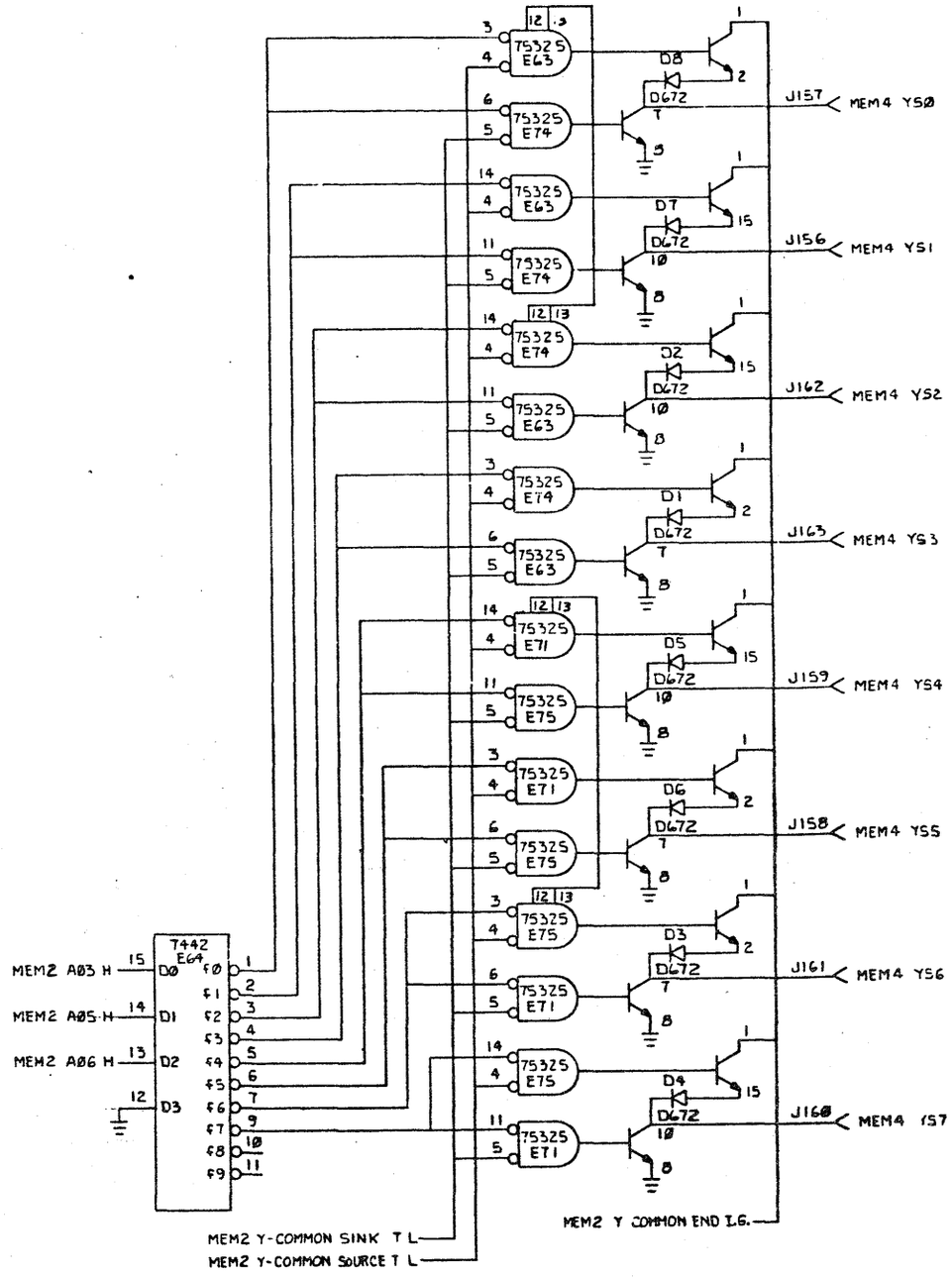

REVISIONS		
CHK	CHANGE NO.	REV.

(Y DRIVE)

TITLE	SIZE	CODE	NUMBER	REV.
16K x 18 MEMORY ELECTRONICS (MEM4)	D	CS	G652-0-1	J
SCALE —	SHEET 6 OF 11	DIST.		

ML2

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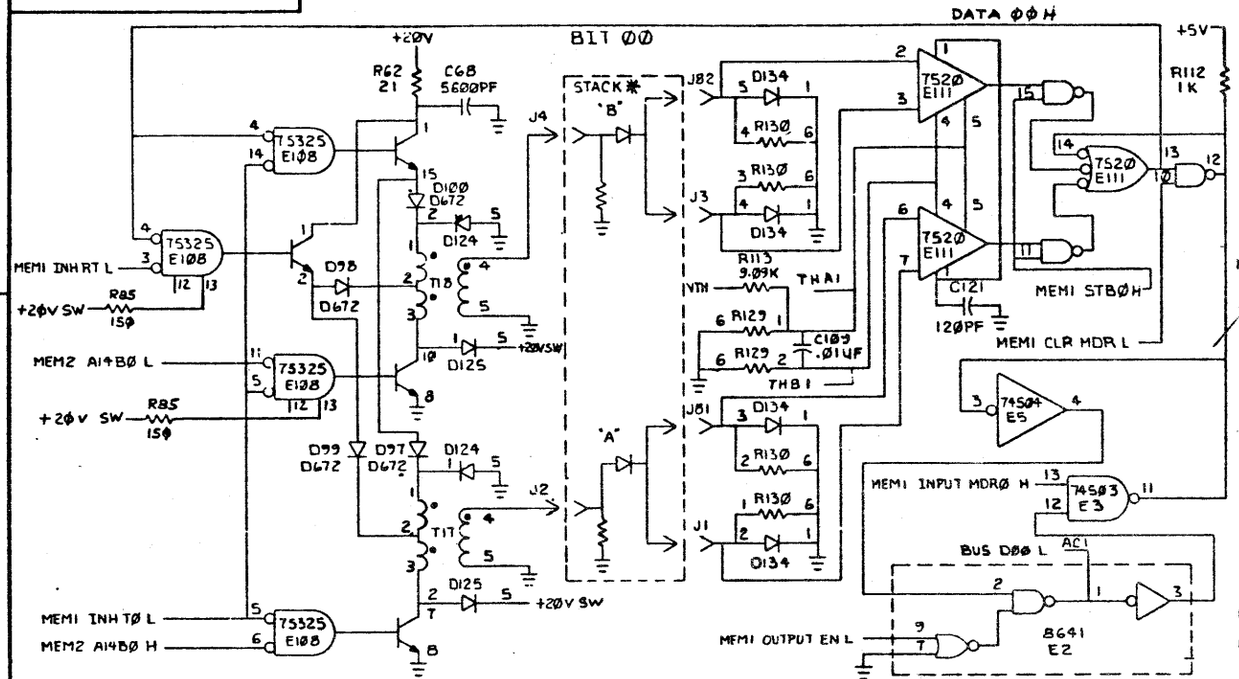
* MOUNTED ON H222 BD:



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
16K × 18 MEMORY ELECTRONICS (MEM5)	D	CS	G652-Ø-1	J
SCALE —	SHEET 7 OF 11	DIST.		

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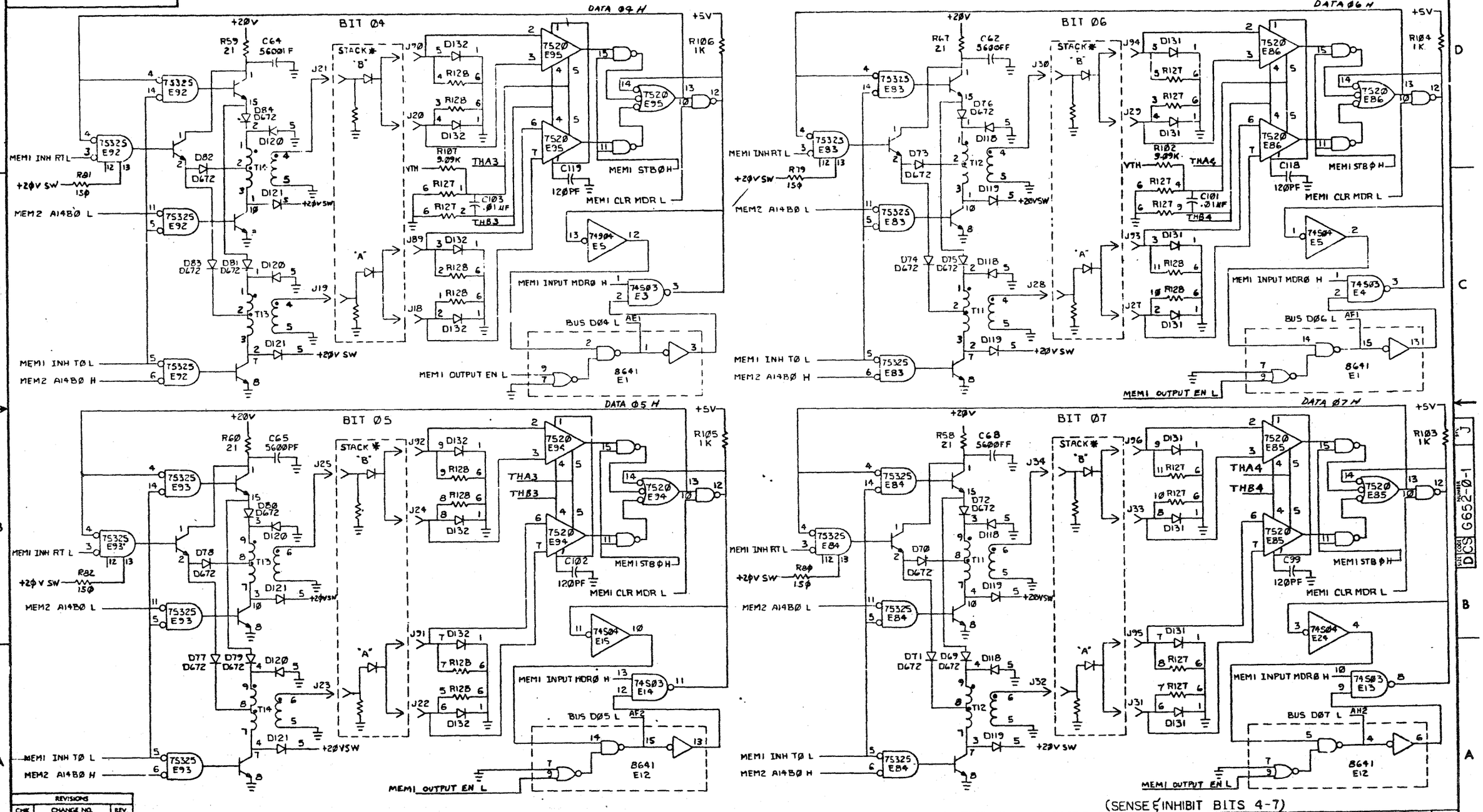
* MOUNTED ON H222 BD



(SENSE & INHIBIT BITS 4-7)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
16K x 18 MEMORY ELECTRONICS (MEM6)	D	CS	G652-Ø-1	J
SCALE —H— SHEET 8 OF 11	DIST			

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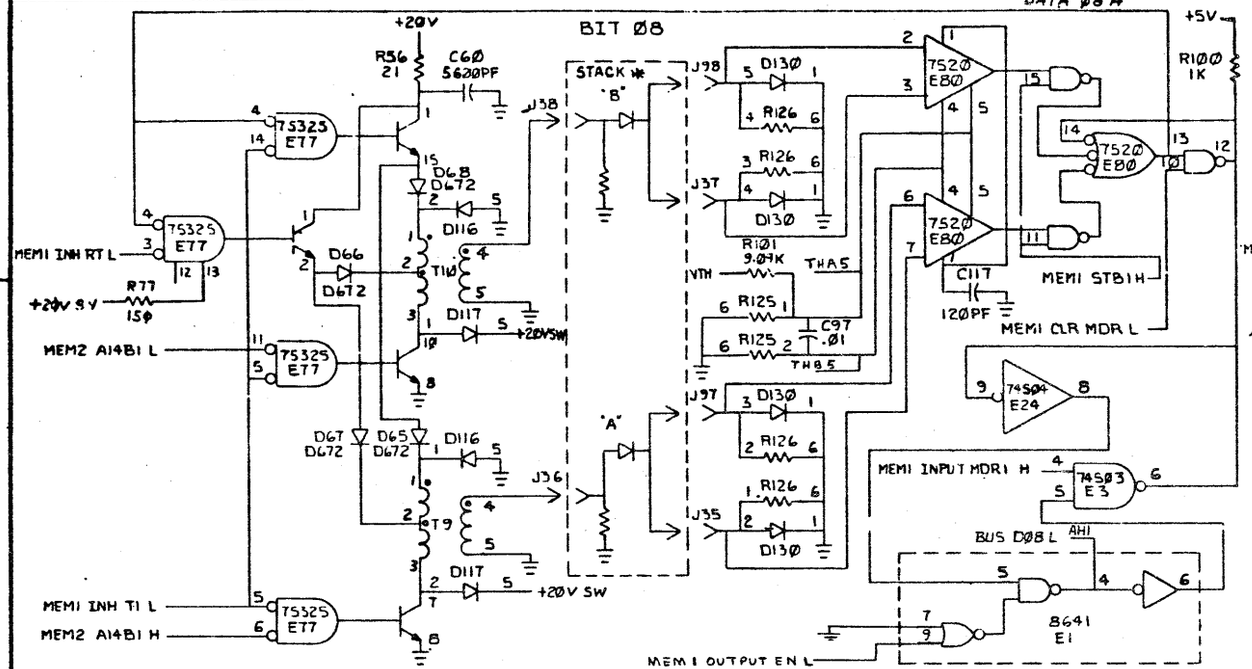
* MOUNTED ON M222 BD :



(SENSE & INHIBIT BITS 8-11)

REVISIONS		
CHK	CHANGE NO	REV.

TITLE 16K x 18 MEMORY ELECTRONICS (MEM7)		SIZE D	CODE CS	NUMBER G652-0-1	REV J
SCALE	SHEET 9 OF 11	DIST			

ML2

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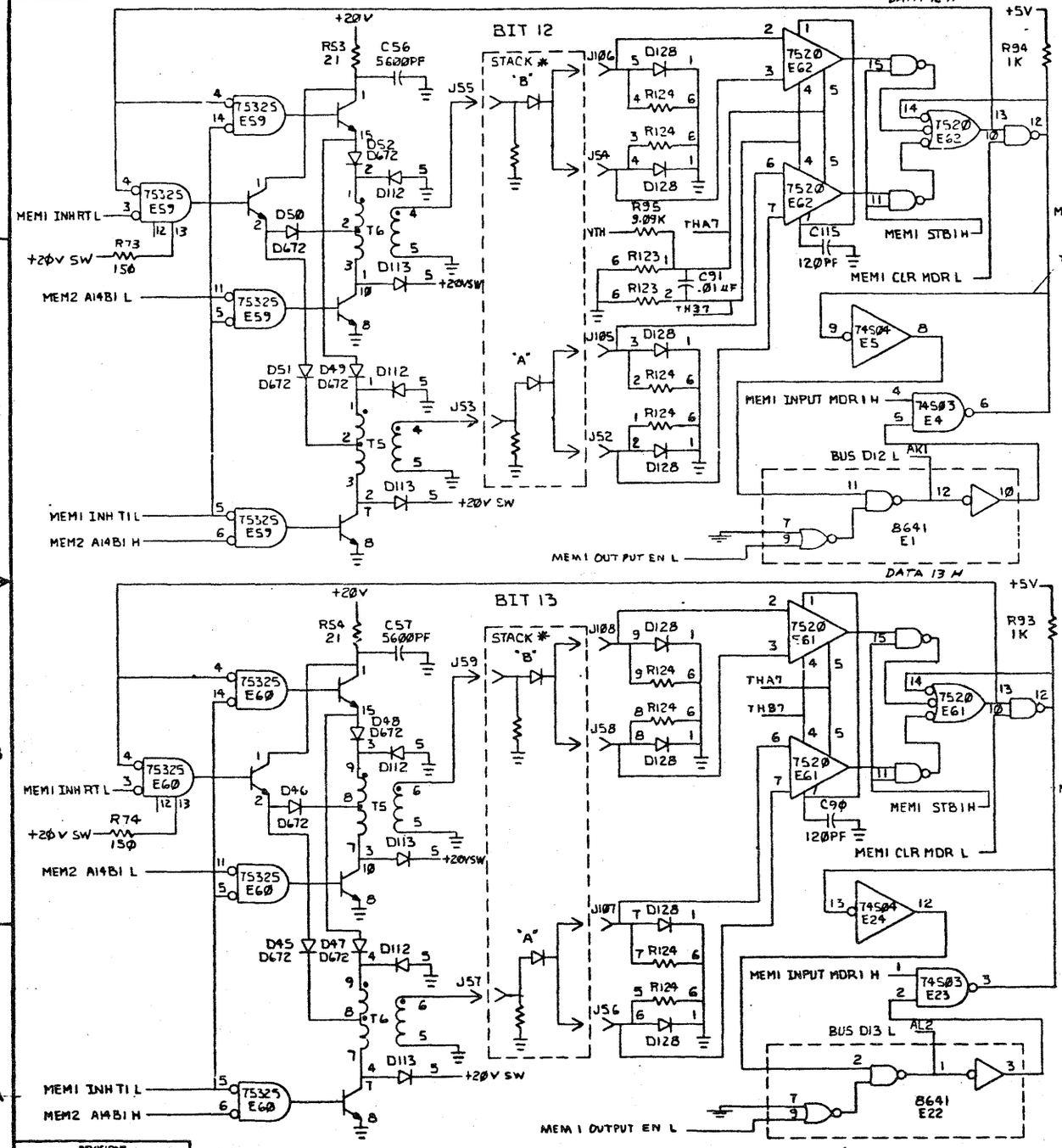
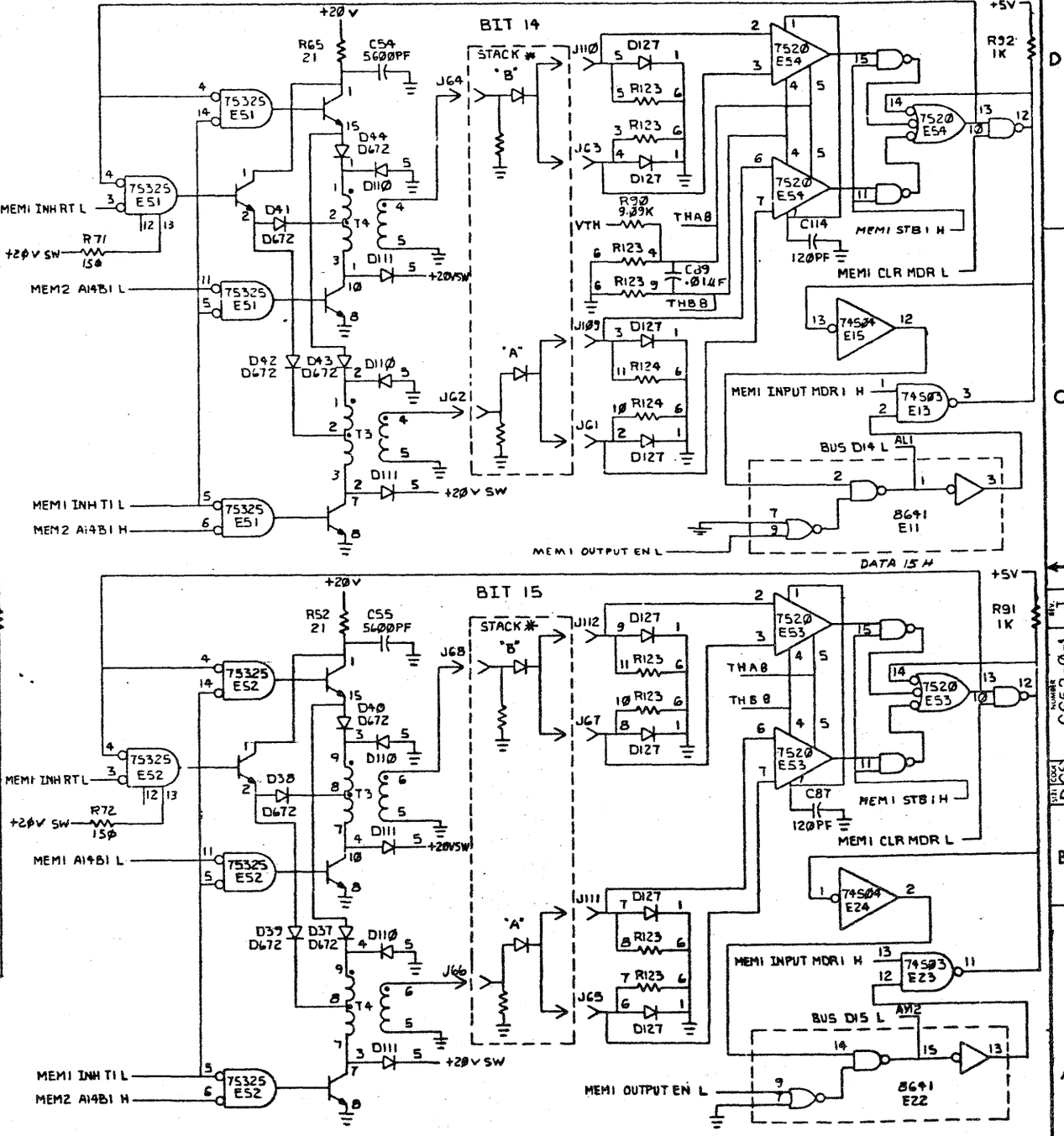
* MOUNTED ON H222 BD





(SENSE & INHIBIT BITS 12-15)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
6K x 18 MEMORY ELECTRONICS (MEM8)	D	DCS	G652-0-1	J
SCALE —	SHEET 10 OF 11	DIST.		

NL2

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* MOUNTED ON M222 BD.

BIT 16

+20V
R64 21
C52 5600PF
J72
J70
D36 D672
D34 D672
D35 D672
D33 D672
D100
T2
T1
D109
+20V SW
MEM1 INH RT L
+20V SW
R69 15Ω
MEM2 A14B0 L
MEM1 INH T0 L
MEM2 A14B0 H
T5325 E43

STACK *
"B"
"A"
J114
J113
J69
D126
R122

VTH
THA9
THB9
RB9 3.09K
C85 .01 MF

T7520 E46
+5V
RB8 1K
C113 120PF
MEM1 STB0 H
MEM1 CLR MDR L
T74S04 E15
MEM1 INPUT MDR 0 H
T74S03 E14
D101 D672
J78
BIT 16 & 17 LOCKOUT L

BUS D16 L API
MEM1 OUTPUT EN L
8641 E11

DATA 16 H
DATA 17 H

BIT 17

+20V
R51 21
C53 5600PF
J76
J74
D32 D672
D30 D672
D29 D672
D31 D672
D100
T2
T1
D109
+20V SW
MEM1 INH RT L
+20V SW
R7Ø 15Ω
MEM2 A14B1 L
MEM1 INH T1 L
MEM2 A14B1 H
T5325 E44

STACK *
"B"
"A"
J116
J115
J73
D126
R122

THA9
THB9
J75
T7520 E45
C84 120PF
MEM1 STB1 H
MEM1 CLR MDR L
T74S04 E15
MEM1 INPUT MDR1 H
T74S03 E14
D102 D672

BUS D17 L AN1
MEM1 OUTPUT EN L
8641 E11

(SENSE & INHIBIT BITS 16 & 17)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	16K x 18 MEMORY ELECTRONICS (MEM9)	SIZE	CODE	NUMBER	REV.
		D	CS	G652-0-1	J
SCALE —H—	SHEET 11 OF 11	DIST.			

ML2

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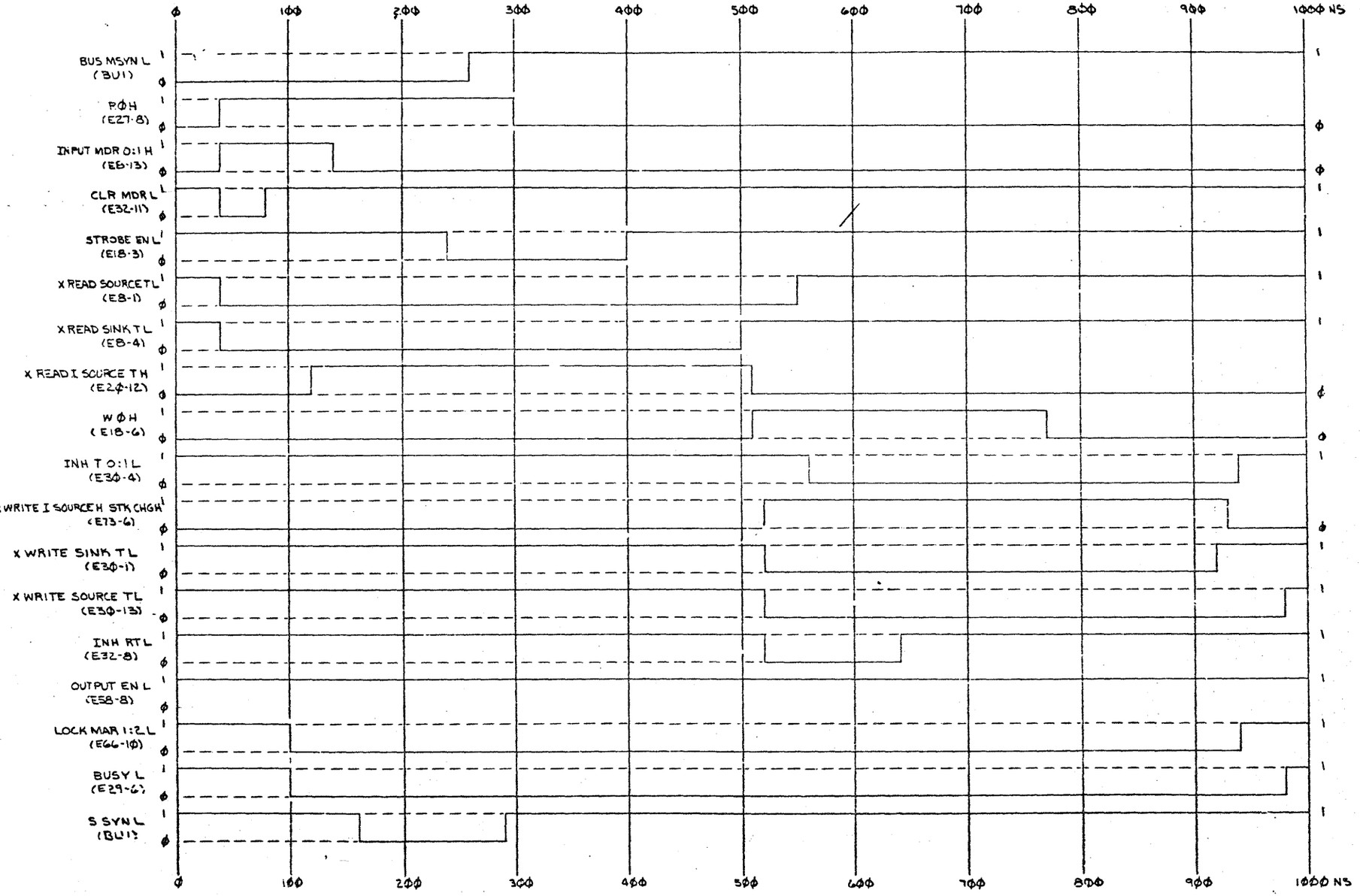
DAT O



DRN. W. LUFKIN	6 SEPT 75	FIRST USED ON MMII-DP	digital
CHK'D	9/8/75	TITLE MMII-DP TIMING DIAGRAM	
ENG.	9/20/75		
PROJ. ENG	11/4/75		
PROD. R.A.	12 DEC 75		
NEXT HIGHER ASSY. B-DD-MMII-DP		SIZE D CODE TD NUMBER MMII-DP-2	REV.
SCALE		DIST.	
SHEET 1 OF 2			

REVISIONS: REV. | CHANGE NO. | CHK

DEC FORM NO. DRD 108-B

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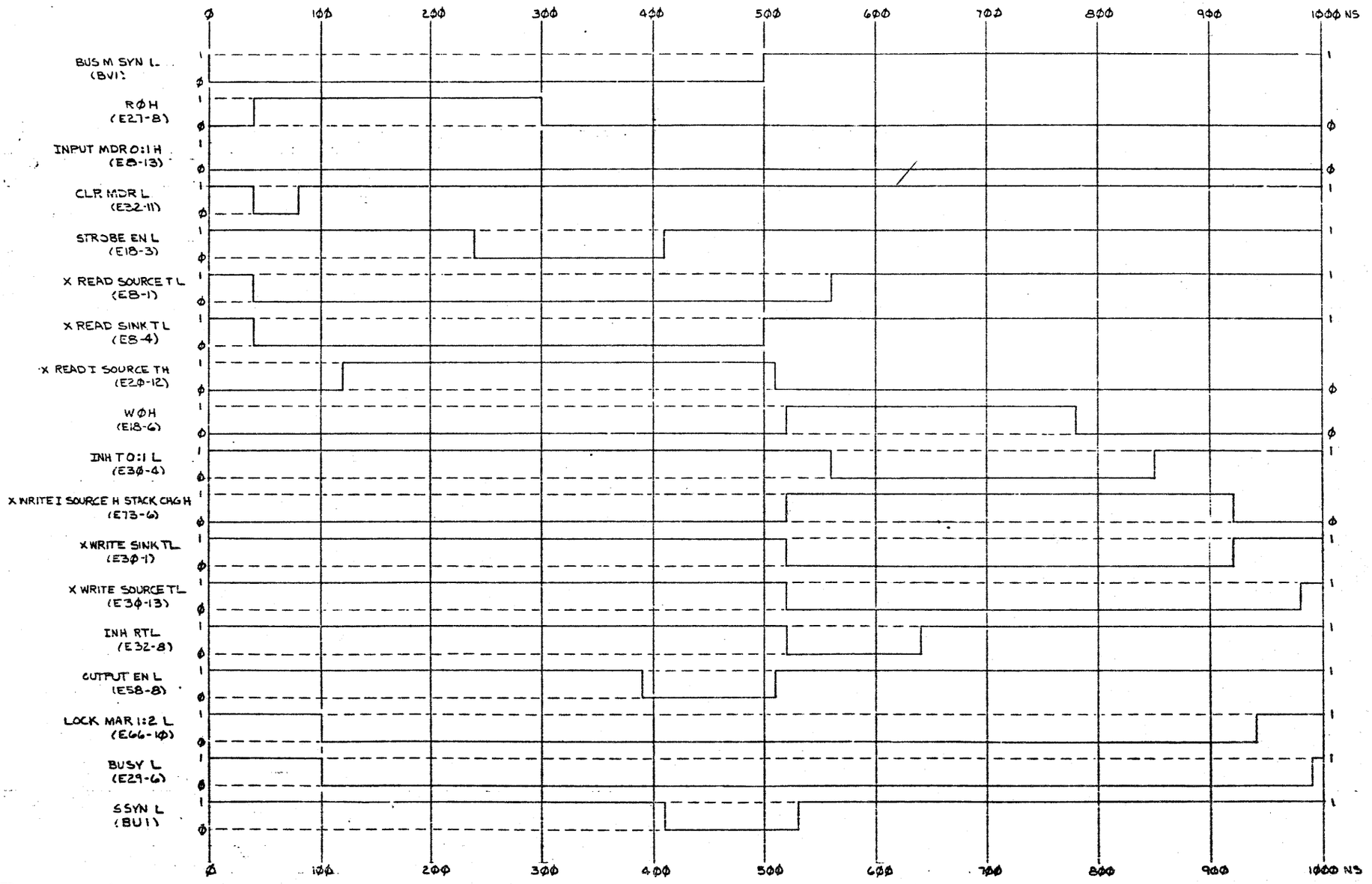
DAT I



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
MMII-DP TIMING DIAGRAM	D	TD	MMII-DP-2	
SCALE →	SHEET 2 OF 2	DIST.		

DEC FORM NO. DRD 138

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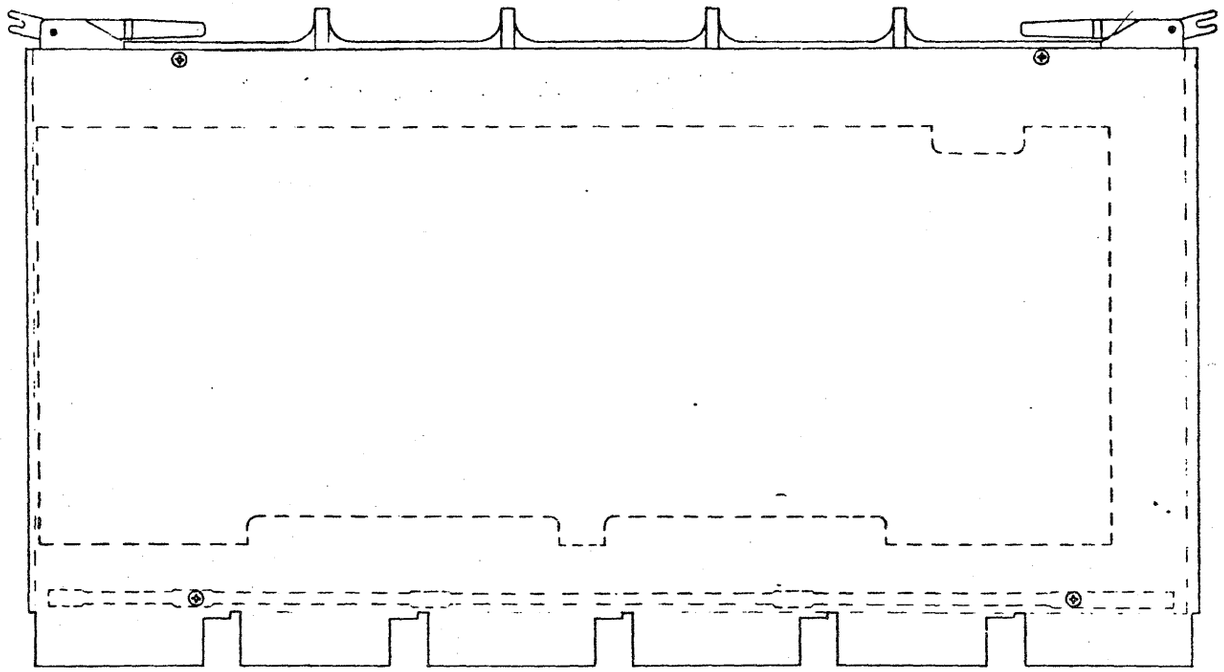
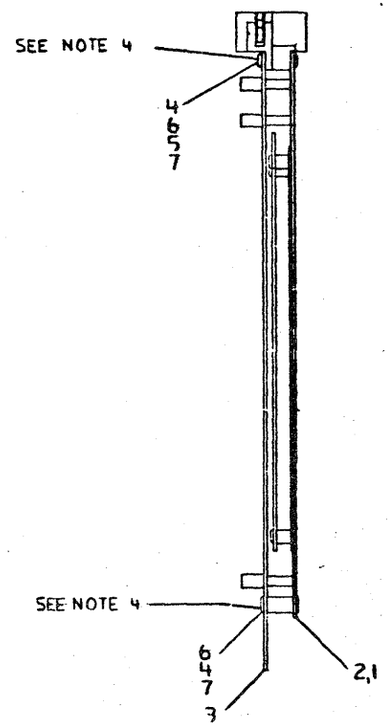
LEGEND			
VARIATION		DESCRIPTION	DWG. NUMBER
MMII-D WILL INCLUDE MODULE COMBINATION C OR D	D	GG52-YA 16K x 18 CORE MEM	D-CS-GG52-0-1
		H222-YB STACK BOARD (16 BIT)	D-UA-H222-B-0
	C	GG52 16K x 18 CORE MEM.	D-CS-GG52-0-1
		H222-B STACK BOARD (16 BIT)	D-UA-H222-B-0
MMII DP WILL INCLUDE MODULE COMBINATION A OR B	B	GG52-YA 16K x 18 CORE MEM.	D-CS-GG52-0-1
		H222-YA STACK BOARD (18 BIT)	D-UA-H222-A-0
	A	GG52 16K x 18 CORE MEM.	D-CS-GG52-0-1
		H222-A STACK BOARD (18 BIT)	D-UA-H222-A-0

NOTE :

1. MMII-DP MEMORY MODULE ASSEMBLY (16K X 18 BIT) MAY BE SUBSTITUTED FOR MMII-D MODULE ASSEMBLY (16K x 16 BIT).
2. GG52-YA'S WILL NOT OPERATE WITH H222'S.
3. H222-YA'S & YB'S WILL NOT OPERATE WITH GG52'S.
4. APPLY A SMALL DROP OF, (ITEM 7), THREAD SEALANT TO SCREW THREADS PRIOR TO INSERTION





CAUTION:

SEE OFF SHEET PARTS LIST: K-PL-MMII-DP-DBP

REVISIONS			
CHK	CHANGE NO.	REV.	
KJT	MM110P-00002	A	22 FEB 77
			D SMELSER
			3/8/77
	MM1MMUDP-ML003	B	
			D.SMELSER

THIRD ANGLE PROJECTION	DRN. M. LUFKIN	7/24/75	FIRST USED ON MMII-DP
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D	8/21/75	TITLE MMII-DP MEMORY MODULE ASSEMBLY
DO NOT SCALE DWG	ENG.	9/22/75	
MATERIAL SEE PARTS LIST	PROJ. ENG.	9/26/75	
FINISH	PROD.		
	NEXT HIGHER ASSY. B-DD-MMII-DP		SIZE D CODE UA NUMBER MMII-DP-0 REV. B
	SCALE 1/1		
	SHEET 1 OF 1		DIST.

DESCRIPTION | DWG./PART NO. | ITEM NO.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

ANGLES ±0° 30'	CLASS OF ACCURACY	NOMINAL DIMENSION RANGE INCHES					
		OVER 0 TO 0.5	OVER 0.5 TO 1.3	OVER 1.3 TO 4.5	OVER 4.5 TO 12.9	OVER 12.9 TO 40.8	OVER 40.8 TO 100.0
SURFACE QUALITY 125 MICROINCHES (CHECK ONE)	MEDIUM ☐	±.005	±.008	±.012	±.016	±.024	±.04
	PREFERRED ☐	±.012	±.016	±.025	±.04	±.063	±0.1

QUANTITY & VARIATION

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

DRAWING DIRECTORY

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CUSTOMER PRINT SET INDEX

SEQUENCE SEQUENCE

THIS IS PRINT SET

UNIT VARIATIONS		PRINT SET
VAR	TITLE	
H222-A	16K X 18 BIT DEC	
H222-B	16K X 16 BIT DEC	
H222-YA	16K X 18 BIT CONTROL DATA	
H222-YB	16K X 16 BIT CONTROL DATA	

REVISIONS		
DATE	CHG. NO.	REV
5-76	H222-1	A
2-77	H222-2	B

USED ON OPTION/MODEL

SHEET 1 OF 2

DRN. W. LUFKIN	DATE 9/22/75	TITLE H222 MEMORY STACK
CHK'D. N. Leighton	DATE 9/22/75	
PROJ ENG. D. Lumber	DATE 10/24/75	
PROD. R.A. Hill	DATE 10/29/75	SIZE B / CODE DD / NUMBER H222-Ø / REV B
FIELD SERVS. [illegible]	DATE 11/4/75	DIST

DEC 10-H222-D-D972

DRB 106

ELECTRICAL

CUSTOMER PRINT SET	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
			B-DD-H222-Ø		2	DRAWING DIRECTORY	
			D-CS-5411554-0-1			H222 STACK BOARD	
			E-IA-7011661-0-0		2	CORE PLANE WIRING ASSEMBLY	

MECHANICAL

CUSTOMER PRINT SET	MFG SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
			D-UA-H222-A-0		1	H222 CORE MEMORY STACK ASSY	
			D-PA-1211725-0-0		1	STIFFENER, FINGER END	
			D-PS-1211726-0-0		1	STIFFENER, HANDLE END	
			D-MD-5511796-0-0		1	CORE SUPPORT (16K x 16/18 BIT)	
			D-MD-5511797-0-0		1	COVER (16K X 16/18 BIT)	
			A-PL-5411554-C-0			PARTS LIST	
			D-AH-5411554-C-5			MEMORY STACK SUB	

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		SIZE	CODE	NUMBER	REV
H222 MEMORY STACK	SHEET 2 OF 2	B	DD	H222-Ø	B

digital EN-01062-2B-16-R972-(325)

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NOTE:
PREFIX FOR J156-J179 IS MEM4.

"Y" DIODE MATRIX

J160 YS7 J161 YS6 J159 YS5 J158 YS4 J163 YS3 J162 YS2 J156 YS1 J157 YS0

D18 D16 D52 D60 D54 D62 D56 D64 D58 D66

J179 YP D0 J167 YN D0
J178 YP D1 J166 YN D1
J177 YP D2 J165 YN D2
J176 YP D3 J164 YN D3
J171 YP D4 J175 YN D4
J170 YP D5 J174 YN D5
J169 YP D6 J173 YN D6
J168 YP D7 J172 YN D7

R57 R58

C8 .22 μF 50V D14 D672 R56 82 1/2 W +5V

+20V J153 C4 .22 μF Q2 3736 L1 10 μH D6 D672 D4 D672 D74 D672 R54 47 J155 +5V D2 D672 C9 .01 μF W4 R15 10Ω C5 680 PF Q3 3736

PULL UP H J150 MEMZY STACK CHG H 74S144 E2

REVISIONS			
CHK	CHANGE NO.	REV.	
G	5411554-00001	C	D.SMELSER 6-9-76
G	5411554-00002	D	D.SMELSER 3/30/77

DRN		6-28-76
CHK'D		7/5/76
ENG		7/14/76
PROJ. ENG		7/14/76
PROD. RQ		7/14/76
NEXT HIGHER ASSY.	D-UA-H222-0	
SCALE	—	
SHEET	1 OF 3	

FIRST USED ON MMIID/DP

digital

TITLE 16K X 16, 18 MEMORY STACK

SIZE D CODE CS NUMBER 5411554-0-1 REV. D

DIST.

DEC FORM NO. DRD 102-0

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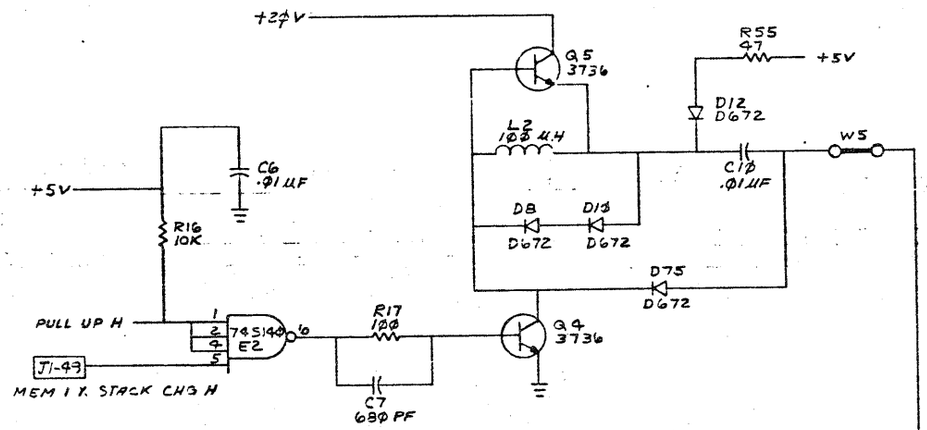
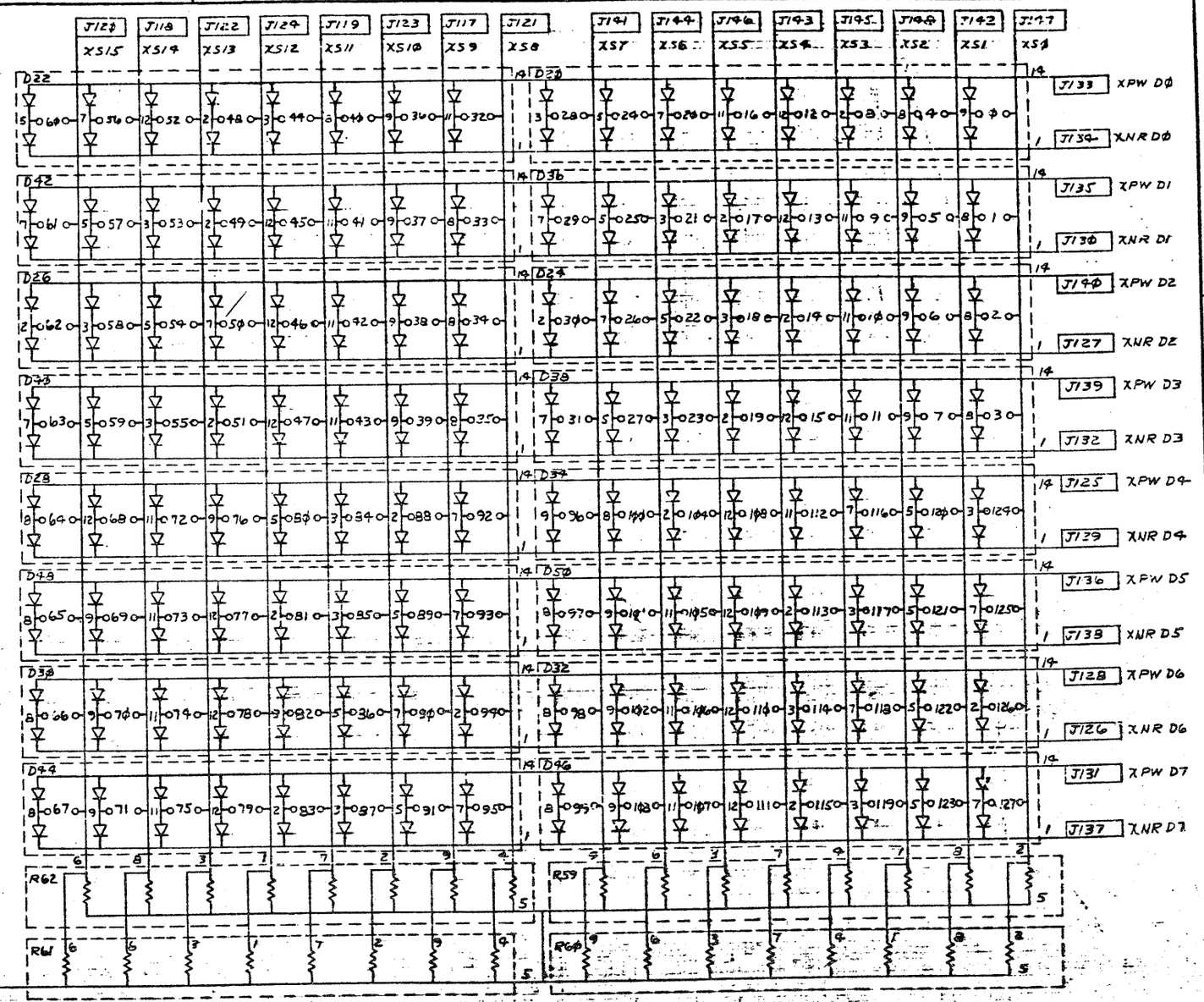
"X" DIODE MATRIX

NOTE:
PREFIX FOR J117-J148 IS MEM3.





REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
16K X 16, 18 MEMORY STACK	D	CS	5411554-0-1	D
SCALE	SHEET 2 OF 3	DIST.		

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NOTES:
1. R18 THRU R33 ARE 1K, 1/4W ±5%.
2. UNLESS OTHERWISE SPECIFIED: ALL DIODES ARE D672.
3. W3 MUST BE INSTALLED FOR A 16 BIT MEMORY -- H+L2B, OR H222A USED WITHOUT A PARITY CONTROLLER (M7850).
4. W1 & W2 ARE USED TO ADJUST VREF

J1 SB ØØA, J81 SA ØØA, J2 I ØØA — BIT ØØA — R33 — D73
J3 SB ØØB, J82 SA ØØB, J4 I ØØB — BIT ØØB — R32 — D71
J5 SB Ø1A, J83 SA Ø1A, J6 I Ø1A — BIT Ø1A — R31 — D69
J7 SB Ø1B, J84 SA Ø1B, J8 I Ø1B — BIT Ø1B — R30 — D67
J10 SB Ø2A, J85 SA Ø2A, J11 I Ø2A — BIT Ø2A — R49 — D65
J12 SB Ø2B, J86 SA Ø2B, J13 I Ø2B — BIT Ø2B — R48 — D63

J14 SB Ø3A, J87 SA Ø3A, J15 I Ø3A — BIT Ø3A — R47 — D61
J16 SB Ø3B, J88 SB Ø3B, J17 I Ø3B — BIT Ø3B — R46 — D59
J18 SB Ø4A, J89 SA Ø4A, J19 I Ø4A — BIT Ø4A — R45 — D57
J20 SB Ø4B, J90 SA Ø4B, J21 I Ø4B — BIT Ø4B — R44 — D55
J22 SB Ø5A, J91 SA Ø5A, J23 I Ø5A — BIT Ø5A — R43 — D53
J24 SB Ø5B, J92 SA Ø5B, J25 I Ø5B — BIT Ø5B — R42 — D51

J27 SB Ø6A, J93 SA Ø6A, J28 I Ø6A — BIT Ø6A — R41 — D49
J29 SB Ø6B, J94 SA Ø6B, J30 I Ø6B — BIT Ø6B — R40 — D47
J31 SB Ø7A, J95 SA Ø7A, J32 I Ø7A — BIT Ø7A — R39 — D45
J33 SB Ø7B, J96 SA Ø7B, J34 I Ø7B — BIT Ø7B — R38 — D43
J35 SB Ø8A, J97 SA Ø8A, J36 I Ø8A — BIT Ø8A — R37 — D41
J37 SB Ø8B, J98 SA Ø8B, J38 I Ø8B — BIT Ø8B — R36 — D39

J39 SB Ø9A, J99 SA Ø9A, J96 I Ø9A — BIT Ø9A — R35 — D37
J41 SB Ø9B, J100 SA Ø9B, J92 I Ø9B — BIT Ø9B — R34 — D35
J44 SB 10A, J101 SA 10A, J95 I 10A — BIT 10A — R33 — D33
J96 SB 10B, J102 SA 10B, J97 I 10B — BIT 10B — R32 — D31
J99 SB 11A, J103 SA 11A, J99 I 11A — BIT 11A — R31 — D29
J58 SB 11B, J104 SA 11B, J51 I 11B — BIT 11B — R30 — D27

J52 SB 12A, J105 SA 12A, J53 I 12A — BIT 12A — R29 — D25
J54 SB 12B, J106 SA 12B, J55 I 12B — BIT 12B — R28 — D23
J56 SB 13A, J107 SA 13A, J57 I 13A — BIT 13A — R27 — D21
J58 SB 13B, J108 SA 13B, J59 I 13B — BIT 13B — R26 — D19
J61 SB 14A, J109 SA 14A, J62 I 14A — BIT 14A — R25 — D17
J63 SB 14B, J110 SA 14B, J64 I 14B — BIT 14B — R24 — D15

J65 SB 15A, J111 SA 15A, J66 I 15A — BIT 15A — R23 — D13
J67 SB 15B, J112 SA 15B, J68 I 15B — BIT 15B — R22 — D11
J69 SB 16A, J113 SA 16A, J70 I 16A — BIT 16A — R21 — D9
J71 SB 16B, J114 SA 16B, J72 I 16B — BIT 16B — R20 — D7
J73 SB 17A, J115 SA 17A, J74 I 17A — BIT 17A — R19 — D5
J75 SB 17B, J116 SA 17B, J76 I 17B — BIT 17B — R18 — D3

W3 (SEE NOTE 3) — J78 BIT 16/17 LOCK OUT

J9, J26, J43, J60, J77, J154

+20 — D1 IN757A 9.1V — R3 1.21K — R4 1.62K — R5 10K — R6 21.5K — W1 — W2 (SEE NOTE 4) — R14 1K (T) — R2 3.16K — R1 820 — R7 1K — C1 .01 MF — XY J152

R10 3.48K — R9 150K — XY LO J79 — R9 150K — XY HI J80

C2 .22 MF — U1 LM741 — R11 4.7K — C3 .01 MF — R12 1.96K — Q1 2N3906 — R13 100 — J151 V REF

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	16K X 16,18 MEMORY STACK			
SIZE	CODE	NUMBER	REV.	
D	CS	5411554-0-1	D	
SCALE		SHEET 3 OF 3	DIST.	

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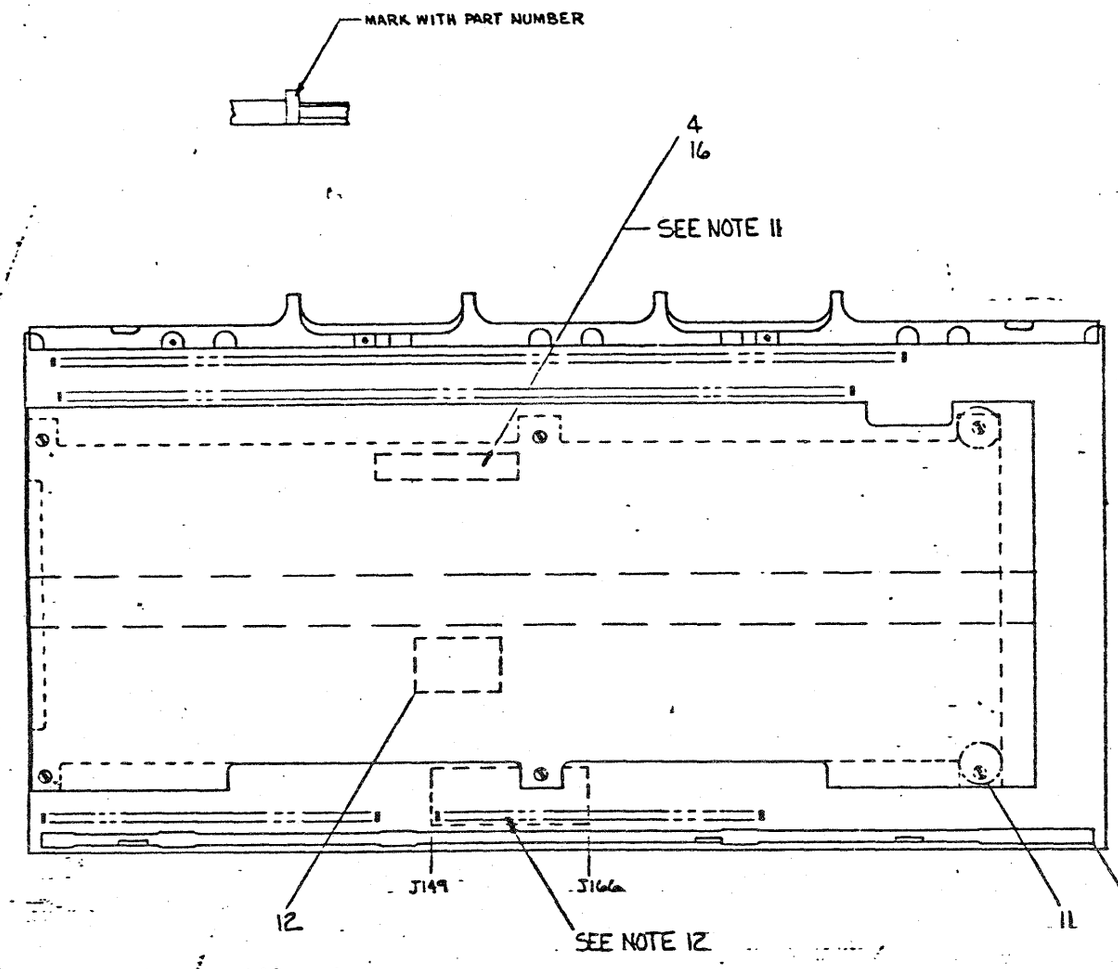
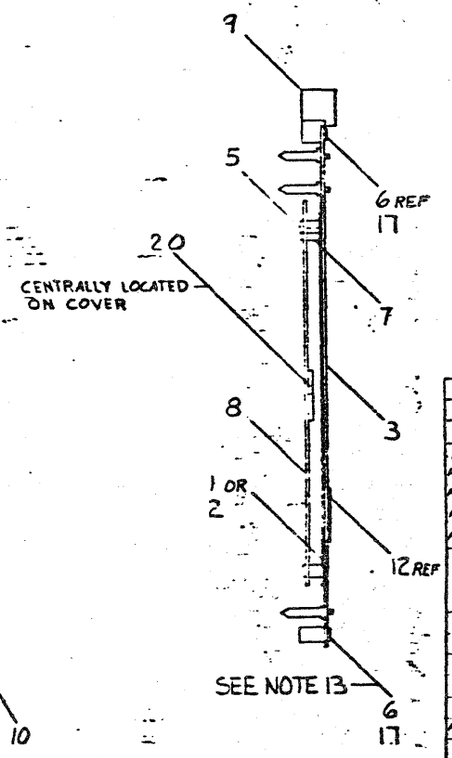
NUMBER	NUMBER	VARIATION	USED ON
H222-YA	H222 A	16K X 18 BIT	MM11-DP
H222-YB	H222 B	16K X 16 BIT	MM11-D

NOTES:

1. BOND ITEM 1 (CORE PLANE) TO ITEM 3 (STACK BOARD) WITH ITEM 16 (ADHESIVE).
2. SWAGE ITEM 1 (CORE PLANE) AND ITEM 3 (STACK BOARD) TOGETHER WITH ITEM 7 (STANDOFF).
3. USE ITEM 15 (PROTECTIVE COATING) TO COAT ALL MAGNETIC WIRE TERMINATIONS AFTER ELECTRICAL TEST. (REF E-IA-7011661-0-0)
4. BOND TWISTED CABLES TO ITEM 1 (CORE PLANE) WITH ITEM 13 (ADHESIVE). SEE E-IA-7011661-0-0.
5. BOND X & Y DRIVE LOOPS IN PLACE WITH ITEM 13 (ADHESIVE). SEE E-IA-7011661-0-0 NOTES
6. REFER TO E-IA-7011661-0-0 WHEN SOLDERING WIRE TERMINATIONS TO ITEM 3 (STACK BOARD).
7. ASSEMBLE ITEMS 9 & 10 (STIFFENERS) TO ITEM 3 (STACK BOARD) USING ITEMS 6 & 17.
8. ATTACH ITEM 8 (COVER) TO ITEM 3 (STACK BOARD) USING ITEM 5 (NYLON SCREW).
9. APPLY ITEM 11 (WARRANTY SEAL) WHERE SHOWN.
10. APPLY ITEM 12 (NAME PLATE) TO SIDE 2 OF ITEM 3 (STACK BOARD) AS SHOWN.
11. MARK ITEM 3 (STACK BOARD) ON SIDE 2 WITH DEC PART NUMBER, SEQUENTIAL SERIAL NUMBER, AND CIRCUIT SCHEMATIC REVISION USING ITEM 4 (INK) AND ITEM 16 (EPOXY). EXAMPLE: H222-A-001-C-3.
12. TRIM AMP POSTS AND COMPONENT LEADS TO BE .65 IN THIS AREA OF SIDE 2.
13. INSTALL ITEM 17 (LOCKWASHER) "TORQUE HAND TIGHT".





1	1	1	1	TAPE FOAM ADHESIVE 19.9 X 3.5 LG	9CG 56-01	20
1	—	—	—	CORE PLANE WIRING ASSY	E-IA-7011661-3-0	19
1	1	—	—	CORE PLANE WIRING ASSY	E-IA-7011661-2-0	18
8	8	8	8	WASHER, LOCK #2 INT TOOTH	9006631-00	17
A/R	A/R	A/R	A/R	EPOXY	4901082-00	16
A/R	A/R	A/R	A/R	PROTECTIVE COATING (F195)	4901C83-00	15
A/R	A/R	A/R	A/R	ADHESIVE (RTV 3145)	4901C86-00	14
A/R	A/R	A/R	A/R	ADHESIVE (RTV 3140)	4901C85-00	13
1	1	1	1	NAME PLATE	[illegible]	12
2	2	2	2	WARRANTY SEAL		11
1	1	1	1	STIFFENER, FINGER END	D-PS-1211725-0-0	10
1	1	1	1	STIFFENER, HANDLE END	D-PS-1211726-0-0	9
1	1	1	1	COVER	D-MD-5511791-0-0	8
6	6	6	6	STANDOFF .25 DIA X .17 LG	9009677-00	7
8	8	8	8	SCR, PHL PAN HD SS #2-56 X .19	9006000-C1	6
6	6	6	6	SCR, SLT BNDR HD NYLON #4-40 X .19	9009233-C4	5
A/R	A/R	A/R	A/R	INK, BLACK	4901084-00	4
1	1	1	—	H222 STACK BOARD	541554	3
1	1	—	—	CORE PLANE WIRING ASSY	E-IA-7011661-1-0	2
1	1	—	1	CORE PLANE WIRING ASSY	E-IA-7011661-0-0	1
H222-YB	H222-YA	H222B	H222A	DESCRIPTION	DWG./PART NO.	ITEM NO.

QUANTITY & VARIATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

ANGLES ± 30' | CLASS OF ACCURACY | NOMINAL DIMENSION RANGE INCHES: 0 TO 0.12 | 0.12 TO 1.2 | 1.2 TO 4.0 | 4.0 TO 12.0 | 12.0 TO 40.0 | 40.0 TO 80.0

SURFACE QUALITY ✓ MICROINCHES: MEDIUM | PREFERRED

MEDIUM	±.004	±.008	±.012	±.016	±.020	±.03
PREFERRED	±.002	±.004	±.008	±.01	±.012	±.01

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL SEE PARTS LIST

FINISH

DRN. W. L. UFKIN	7/17/73	FIRST USED ON MM11-DP
CHK'D		
ENG.		
PROJ. ENG.		
PRODN		
NEXT HIGHER ASSY.		
D-LA-MM11-DP-0		
SCALE 1/1		
SHEET 1 OF 1		

digital

TITLE: H222 CORE MEMORY STACK ASSEMBLY

SIZE D | CODE UA | NUMBER H222-0-0 | REV. H

DIST.

REVISIONS	CHG.	CHANGE NO.	REV.
	KF	11-222-00-002	A
	JG	H222-00003	B

D. SMELSER 11/16/73

D. SMELSER 11/16/73

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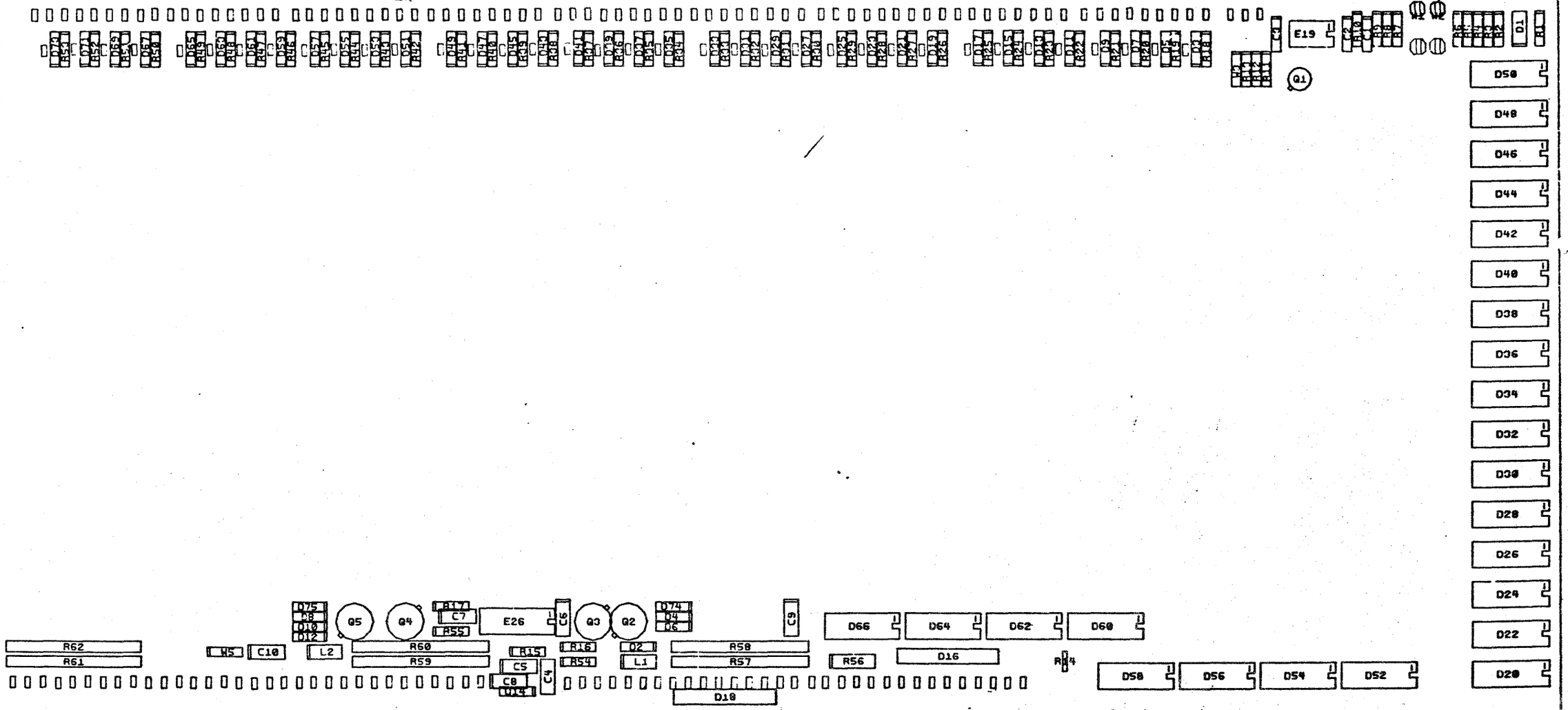
36



NOTES:

CHK	CHANGE NO	REV
SC	5411554-0100	D
	(3) Wire Assy 77	
	D. SHELSTAD	
	(2) Wire Assy 77	

SIGNATURES	DATE
DRN. C. Cliff	7/8/75
CHK'D. T. Hanson	7/8/75
ENG. R. Lewis	7/14/75
PROJ. ENG. D. Lewis	7/14/75
PROD.	

digital

TITLE 16K X 16,18 MEMORY STACK

SCALE 2/1 SHT. 1 OF 1

SIZE	CODE	NUMBER	REV
D	UA	5411554-0-0	D

ETCH REV C FIRST USED ON

1 MS# 905777

D UA5411554-0-0 D

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

QUANTITY/VARIATION

MADE BY M. Poirier	CHECKED R. Manoogian	SECTION
DATE 7/7/75	DATE 7/7/75	
ENG D. Lucker	PROD R A Hill 7/14/75	ISSUED SECT.
DATE 7/14/75	DATE	

ITEM NO.	DWG NO./PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATIONS
1	D-CS-5411554-0-1	CIRCUIT SCHEMATIC	REF	
2	D-AH-5411554-0-5	ASSY/DRILLING HOLE LAYOUT	REF	
3	B-MH-5411554-0-6	MODULE ECO HISTORY	REF	
4	5011493	ETCHED CIRCUIT BOARD	1	
5	1000026-00	CAP 680 PF 100V 5% DM	2	C5,C7
6	1001610-01	CAP .01UF 100V CER	5	C1,C3,C6,C9,C10
7	1010274-00	CAP .22UF 50V CER	3	C4,C8,C2
8	1105275-00	DIODE D672	44	D2-D15,D17,D19,D21,D23,D25,D27
				D29,D31,D33,D35,D37,D39,D41,
				D43,D45,D47,D49,D51,D53,D55,D59
				D61,D63,D65,D67,D69,D71,D73,D74
				D75
9	1109990-00	DIODE,ZENER 1N757A 9.1V 5%	1	D1
10	7010918-3-0	DIODE NETWORK	2	D16,D18
11	1910010-00	DIODE PACK 2501	24	D20,D22,D24,D26,D28,D30,D32,D34
				D36,D38,D40,D42,D44,D46,D48,D50
				D52,D54,D56,D58,D60,D62,D64,D66
12	1300229-00	RES 100 1/4W 5%	3	R13,R15,R17
13	1301775-00	RES 820 1/4W 5%	1	R1
14	1304862-00	RES 1.62K 1/8W 1%	1	R4
15	1302871-00	RES 1.21K 1/8W 1%	1	R3
16	1304833-00	RES 1.96K 1/8W 1%	1	R12,

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.	ECO NO.
16K x 16, 16 MEMORY STACK	D-UA-5411554-0-0	A	PL	5411554-0-0	D	00002
	SHEET 1 OF 2	DIST.				

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

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

QUANTITY/VARIATION

MADE BY M. Poirier	CHECKED R. Manoogian	SECTION
DATE 7/7/75	DATE 7/7/75	
ENG D. Lucker	PROD R A Hill 7/14/75	ISSUED SECT.
DATE 7/14/75	DATE	

ITEM NO.	DWG NO./PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATIONS
17	1303045-00	RES 3.16K 1/4W 1%	1	R2
18	1300479-00	RES 10K 1/4W 5%	1	R16
19	1303312-00	RES 10K 1/8W 1%	1	R5
20	1300316-00	RES 470 1/4W 5%	1	R11
21	1303155-00	RES 21.5K 1/8W 1%	1	R6
22	1302396-00	RES 150K 1/4W 5%	2	R8,R9
23	1301781-00	RES 82 1/2W 5%	1	R56
24	1300202-00	RES 47 1/4W 5%	2	R54,R55
25	1300365-00	RES 1K 1/4W 5%	37	R18-R53,R7
26	1310071-00	RES 1K 1% THERMISTER	1	R14
27	1311742-00	RES NETWORK 220 1/4W 1%	6	R57-R62
28	1503366-00	TRANS 2N3736	4	Q2-Q5
29	1503409-01	TRANS 6534B	1	Q1
30	1610662-00	INDUCTOR 100UH	2	L1,L2
31	1910298-00	I.C. 72741	1	E1
32	1910546-00	I.C. 74S140	1	E2
33	1211727-00	CONTACT, MALE	179	J1-J179
34	9009185-00	JUMPER, INSULATED (.4 LONG)	1	W5
35	9107560-01	JUMPER, BUSS WIRE (#22 AWG)	4	W1-W4 (OPTIONAL)
36	9006735-00	EYELET (SPLIT LUG)	4	
37	1305114-00	RES 3.48K 1/8W 1%	1	R10

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.	ECO NO.
16K x 16, 18 MEMORY STACK	D-UA-5411554-0-0	A	PL	5411554-0-0	D	
	SHEET 2 OF 2	DIST.				

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

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D-UA-MM11-YP-Ø	MM11-YP MEMORY MODULE ASSY.
B-DD-H228-B	DRAWING DIRECTORY
D-CS-5412149-Ø-1	32K SPC MEMORY
D-UA-H228-B-Ø	H228 CORE MEMORY STACK ASSY.
D-CS-M785Ø-Ø-1	PARITY CONTROLLER
B-PL-5412149-0-0	32K SPC MEMORY
B-PL-G657-0-0	32K ELECTRONICS
D-UA-G657-0-0	32K ELECTRONICS (SHTS. 1 ¢ 6 ONLY)
D-UA-5412149-0-0	32K SPC MEMORY (SHTS. 1 ¢ 4 ONLY)
D-CS-G657-0-1	32K SPC ELECTRONICS

UNIT VARIATIONS COVERED BY THIS PRINT SET
MM11-Yp

MM11-YP
Field Maintenance Print Set

Digital Equipment Corporation
PRINT SET ORDER NUMBER MPØØ317

REVISIONS	REV.	CHG. NO.	DATE
	A	MM11-YP-1	10-77

EN-0124-16-NM76-1331

DRB 124

USED ON OPTION/MODEL

SHEET 1 OF 1

DRN. E.DeVries	DATE 18may77	digital
CHK'D R.Rudelle	DATE 18MAY77	TITLE: MM11-YP MEMORY MODULE
PROJ. ENG. W.Coates	DATE 20APR77	
FIELD SERV. J.Hilderly	DATE 8June77	

SIZE	CODE	NUMBER	REV.
B	TC	MM11-YP-1	A
DIST.			

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DRAWING DIRECTORY

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NOTE: FIELD MAINTENANCE PRINT SET SEE: MPØØ317

UNIT VARIATIONS

VAR	TITLE
MM11-YP	32K X 18 BIT MEMORY/MODULE

REVISIONS	REV.	CHANGE NO.	CHK
	A	MM11YP-2	
	B	MM11-YP-3	JMcW

USED ON OPTION/MODEL

SHEET 1 OF 2

DRN. E. DeVeau	DATE 18 May 77	TITLE digital MM11-YP MEMORY MODULE	
CHK'D. R. Rudelka	DATE 18 MAY 77		
PROJ. ENG. W. Coates	DATE 20 APR 77	SIZE B	CODE DD
PROD. Ra Hill	DATE 24 MAY 77	NUMBER MM11-YP	REV B
		DIST.	

DRB 106A

ML 2

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
1	MPØØ317	MM11-YD PRINT SET	REF
	B-TC-MM11-YP-1	MM11-YP FIELD MAINT. PRINT SET	REF
	D-UA-MM11-YP-Ø	MM11-YP MEMORY MODULE ASSY	E/M
	D-TD-MM11-YP-2	MM11-YP TIMING DIAGRAM	REF
2	E-UA-H228-B-Ø	H228-B CORE MEMORY STACK ASSY	E/M
	B-DD-H228-B	H228 CORE MEMORY STACK	REF
	D-UA-5412149-0-0	32K SPC MEMORY	
3	D-UA-G657-Ø-Ø	32K SPC ELECTRONICS	E/M
	B-DD-G657-Ø	32K SPC ELECTRONICS	REF
4	D-AD-7013560-0-0	CONN JUMPER ASSY	M
	C-IA-7417954-0-0	CONN ASSY	E/M
	D-PS-1213577-0-0	COVER HOUSING	M
5	K-PL-MM11-YP-DBP	DATA BASE PARTS LIST	

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE

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

digital

TITLE MM11-YP MEMORY MODULE

SHEET 2 OF 2 | SIZE B | CODE DD | NUMBER MM11-YP | REV B

DRB 108A

ML2

SIZE	CODE	NUMBER	REV.
B	DD	G657-Ø	C

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS
B-DD-G657-Ø	1		32K SPC ELECTRONICS	* A B C
D-UA-G657-Ø-Ø	2		32K SPC ELECTRONICS	B C C D
K-PL-G657-Ø-DBP	4		32K SPC ELECTRONICS	B C D E
D-CS-G657-Ø-1	18		32K SPC ELECTRONICS	B C D E
D-MD-5012147-0-0	8		DRILL & ETCH DRAWING	B B B C
		5012147	ETCHED BOARD	C C C D
K-PC-G657-Ø-DBG	-		P.C. DESIGN DATA BASE	REF - - D
D-EC-5012147-0-0	2		ETCH CUT DRAWING	REF - - D

NOTES:

REVISIONS				
REV.	*	A	B	C
CHG NO.	ORIG	00001	ML0Ø2	ML0Ø3
DATE		7-78	5-8Ø	11-8Ø

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digital

USED ON OPTION/MODEL	
MM11-YP	

DRN.	LORA METZGER	4-28-77
CHK'D	R. MANION	4-29-77
ENG.	W. Coates	4-29-77
PROD.	R. A. HILL	4-29-77

TITLE: 32K SPC ELECTRONIC

SIZE	CODE	NUMBER	REV.
B	DD	G657-Ø	C

SHEET 1 OF 1

DRB 126

ML2

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MMII-YP TIMING

TIME (N.SEC.)

ON G657

0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300

ALL MODES

(E69-3) ELED MSYN H
(E28-3) ELEA RØ H
(E3-10) ELEA 0-75 H
(E23-11) ELEA LOCK MAR H
(E3-1) ELEA LOCK MAR Ø L
(E25-6) ELEA MEM NOT BUSY H
(E16-3) ELEA STB EN H
(E4-4) ELEA YRD SINK TL
ELEA XY RD CUR TL
(E4-10) ELEA X RD SOURCE TL
(E4-13) ELEA Y RD SOURCE TL
(E4-1) ELEA X RD SINK TL
(E29-10) ELEA XY WR CUR TL
(E9-1) ELEA X WR SOURCE TL
(E9-13) ELEA Y WR SOURCE TL
(E9-4) ELEA X WR SINK TL
(E9-10) ELEA Y WR SINK TL
(E17-6) ELEA INH TH
(E17-8) ELEA STK CHG TH

PERTINENT SIGNALS DATI OR DATIP

(E69-3) ELED MSYN H
(E23-6) ELEA CLEAR Ø L
(E27-8) ELEA OUT EN L BUS DATA L
(E91-6) ELED STB L-H,L-H
(E62-4) ELED BUS SSYN L

DATO OR DATO B

(E96-3) ELED MSYN H
(E23-6) ELEA CLEAR Ø L
(E16-8) ELEA CLOCK Ø H
(E91-6) ELED STB L-H,L-H
(E62-4) ELED BUS SSYN L

* BUS MSYN L ↑ ≥ 75 NS AFTER BUS SSYN L ↓.

NOTES

1. TIMES ARE TYPICAL.
2. *BUS MSYN L ↑ ≥ 75 NS AFTER BUS SSYN L ↓.

REVISIONS		
DNR	CHANGE NO.	REV.

DRN. E. DeVivo	28 Jun 77	FIRST USED ON MMII-YP
CHK'D. J. Powers	29 APR 77	TITLE MMII-YP TIMING DIAGRAM
ENG. W. Cutler	29 APR 77	
PROJ. ENG. J. Cates	29 APR 77	
PROD. MA Hall	29 Apr 77	
NEXT HIGHER ASSY.		
B-DD-MMII-YP		SIZE D CODE TD NUMBER MMII-YP-2 REV.
SCALE NONE		
SHEET 1 OF 2		DIST.

digital

8 7 6 5 4 3 2 1

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MMII-YP TIMING DELAY LINE TIMING (N. SEC)

0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300

MSYN H
DL DR L
DLI Ø
DLI 25
DLI 5Ø
DLI 75
DLI 1ØØ
DLI 125
DLI 15Ø
DLI 175
DLI 2ØØ
DLI 225
DLI 25Ø
DL2 ST
DL2 Ø
DL2 25
DL2 5Ø
DL2 75
DL2 1ØØ
DL2 125
DL2 15Ø
DL2 175
DL2 2ØØ
DL2 225
DL2 25Ø
DL3 Ø
DL3 25
DL3 5Ø
DL3 75
DL3 1ØØ
DL3 125
DL3 15Ø
DL3 175
DL3 2ØØ
DL3 225
DL3 25Ø

DELAY LINE TAPS

DRN. E. DeVeau	28 Nov 77	FIRST USED ON: MMII-YP	digital
CHK'D R. Moore	29 Nov 77		
ENG. A. Coates	29 Nov 77	TITLE: MMII-YP TIMING DIAGRAM	
PROJ. ENG. A. Coates	29 Nov 77		
PROD. R.A. Hill	29 Nov 77		
NEXT HIGHER ASSY.			
8-DD-MMII-YP		SIZE D CODE TD NUMBER MMII-YP-2 REV.	
SCALE NONE			
SHEET 2 OF 2		DIST.	

REVISIONS: REV. | CHANGE NO. | CHK

SIZE CODE DTD MMII-YP-2 REV.

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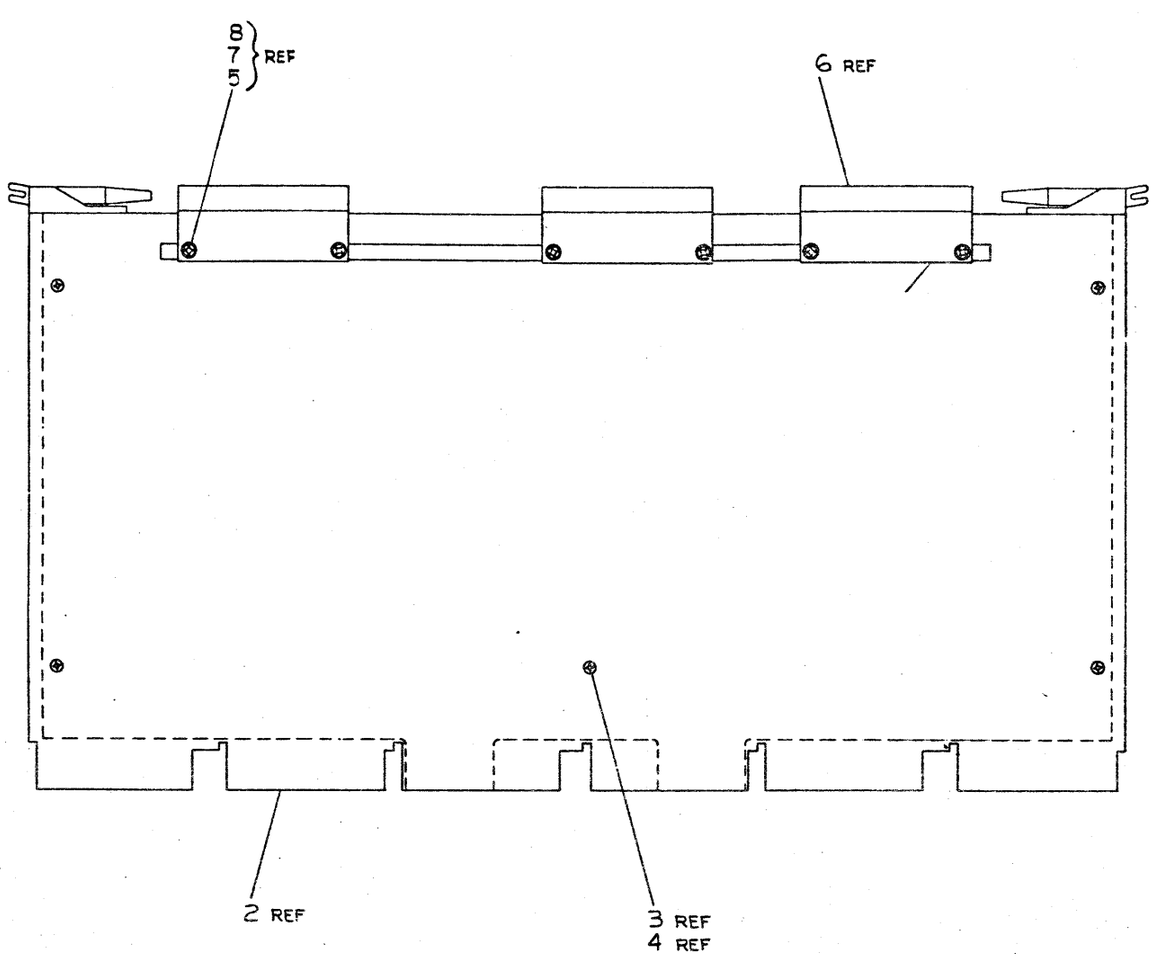
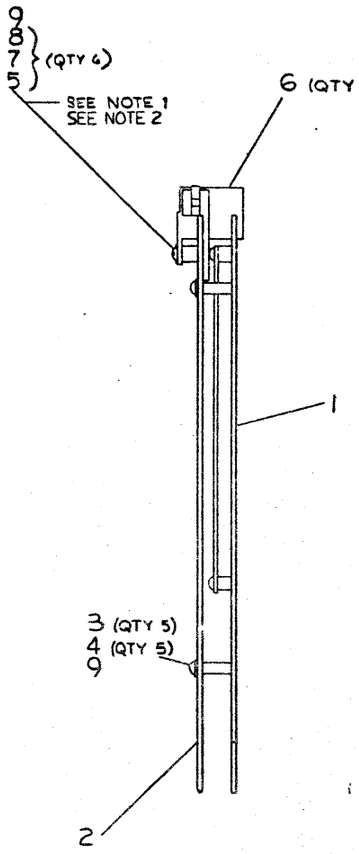
NOTES:
1. FLAT WASHER IS NEXT TO CONN. JUMPER ASSY.
2. APPLY A SMALL DROP OF SEALANT, (ITEM 9), TO SCREW THREADS PRIOR TO INSERTION.





CAUTION:

SEE OFF SHEET PARTS LIST: K-PL-MMII-YP-DBP

REVISIONS			
DWN	CHANGE NO.		REV.
[illegible]	MMIIYP-00002		A
P. Burdick 7-Mar-77			
W. COATES 7-14-77			
W. Coates 7-14-77			
DWN MMII-YP-ML003			B
W. COATES 2/14/82			
W. Coates 2/14/82			

	DESCRIPTION	DWG./PART NO.	ITEM NO.
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
QUANTITY & VARIATION	ANGLES ±0° 30' / CLASS OF ACCURACY (CHECK ONE) / SURFACE QUALITY ▽▽ MICROINCHES: MIL ☐ PREFERRED ☐	NOMINAL DIMENSION RANGE INCHES: OVER 0 TO 6 (.000 / .000); OVER 6 TO 12 (.000 / .000); OVER 12 TO 48 (.012 / .010); OVER 48 TO 120 (.016 / .005); OVER 120 TO 480 (.024 / .01); OVER 480 TO 960 (.04 / .03); OVER 960 (.08 / .1)	
THIRD ANGLE PROJECTION	DRN. [illegible] 2-14-82	FIRST USED ON MMII-YP	digital
	CHK'D [illegible] 17 MAR 77		
	ENG. [illegible] 20 APR 77	TITLE MMII-YP MEMORY MODULE ASSEMBLY	
REMOVE BURRS AND BREAK SHARP CORNERS	PROJ. ENG. [illegible] 20 APR 77		
	PROD. [illegible] 29 APR 77		
DO NOT SCALE DWG	NEXT HIGHER ASSY.		
MATERIAL SEE PARTS LIST	B-ND-MMII-YP	SIZE D / CODE UA / NUMBER MMII-YP-0	REV. B
FINISH —	SCALE NONE		
	SHEET 1 OF 1	DIST.	

ML 2

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

DRAWING DIRECTORY

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CUSTOMER PRINT SET INDEX

SEQUENCE

SEQUENCE

FOR FIELD MAINTENANCE PRINT SET REFER
TO MPØØ 317

THIS IS PRINT SET [ ]

UNIT VARIATIONS		PRINT SET
VAR	TITLE	

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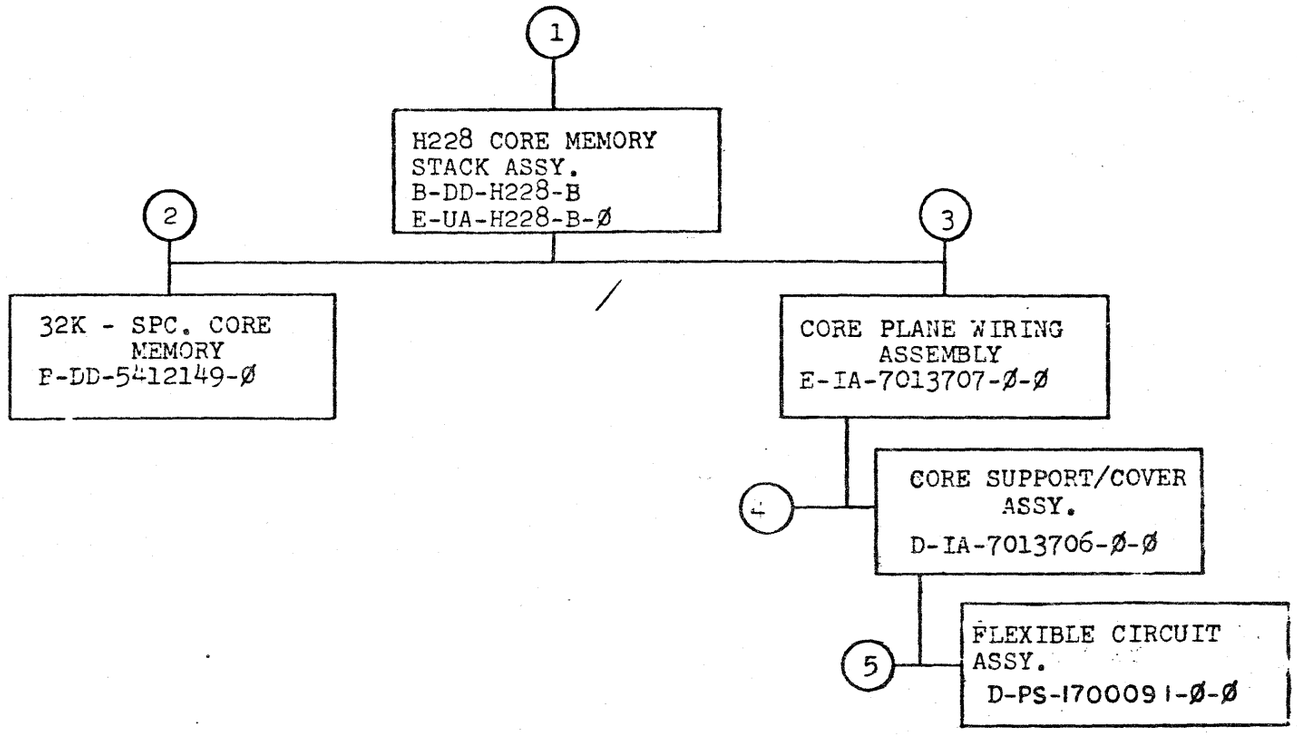

TITLE		SIZE	CODE	NUMBER	REV
H228 CORE MEMORY STACK	SHEET 2 OF 3	B	DD	H228-B	

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
1	MP00317	FIELD MAINTENANCE PRINT SET (MP)	-
	B-TC-H228-B-1	FIELD MAINTENANCE PRINT SET (TC)	-
	B-DD-H228-B	H228 CORE MEMORY STACK (DD)	M
	E-UA-H228-B-Ø	H228 CORE MEMORY STACK ASSY.	M
	D-PS-1214237-Ø-Ø	STIFFENER, SPACER (32K SPC)	M
2	B-DD-5412149-Ø	32K - SPC CORE MEMORY (DD)	E
3	E-II-7013707-Ø-Ø	CORE PLANE WIRING ASSY.	E
5	D-PS-1700091-Ø-Ø	FLEXIBLE CIRCUIT ASSY.	E
	D-CS-5412743-Ø-1	FLEXIBLE CIRCUIT SCHEMATIC	E
4	D-IA-7013706-Ø-Ø	CORE SUPPORT/COVER ASSY.	M
	D-MD-7418246-Ø-Ø	COVER (32K - SPC.)	M
	D-MD-7418245-Ø-Ø	CORE SUPPORT (32K - SPC.)	M

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE

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

digital

TITLE H228 CORE MEMORY STACK

SHEET 3 OF 3 | SIZE B | CODE DD | NUMBER H228-B | REV

DRB 108A

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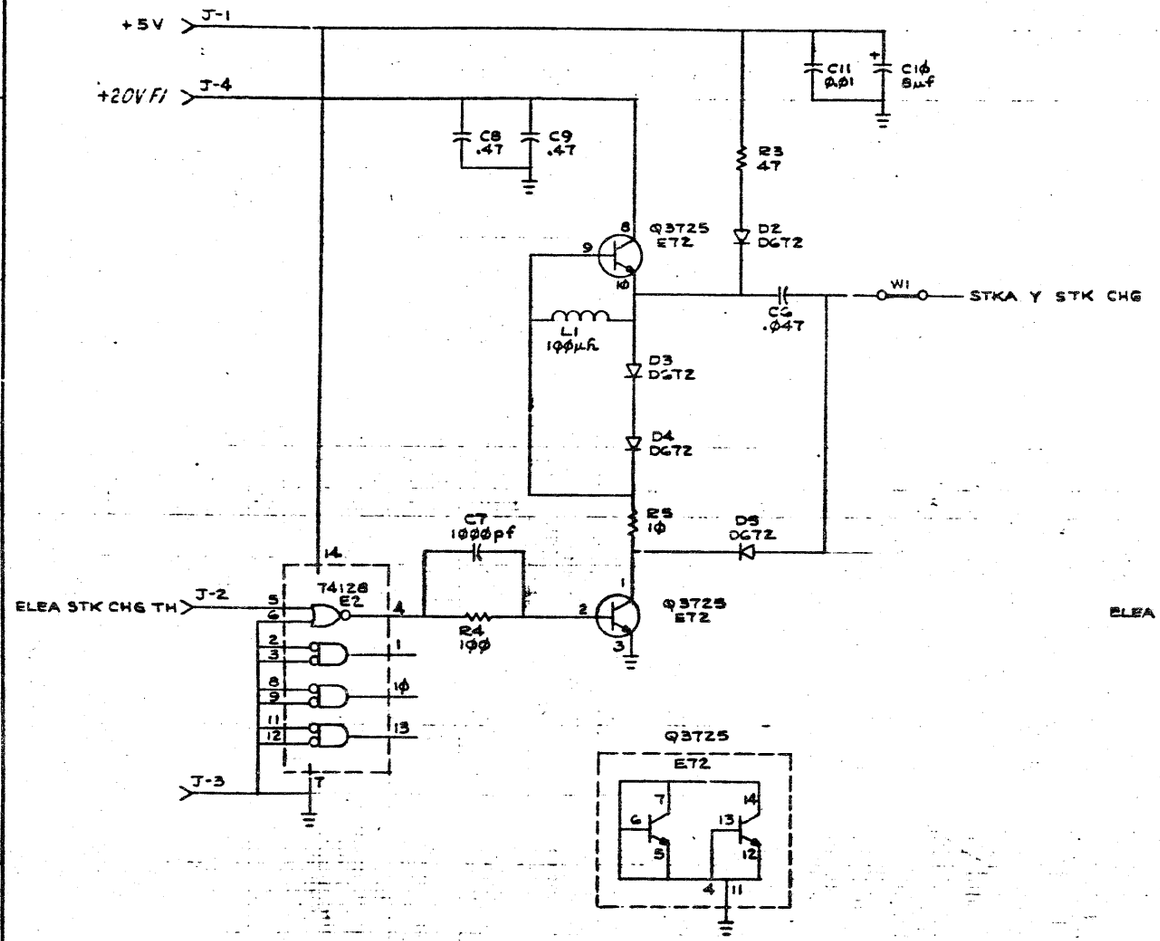
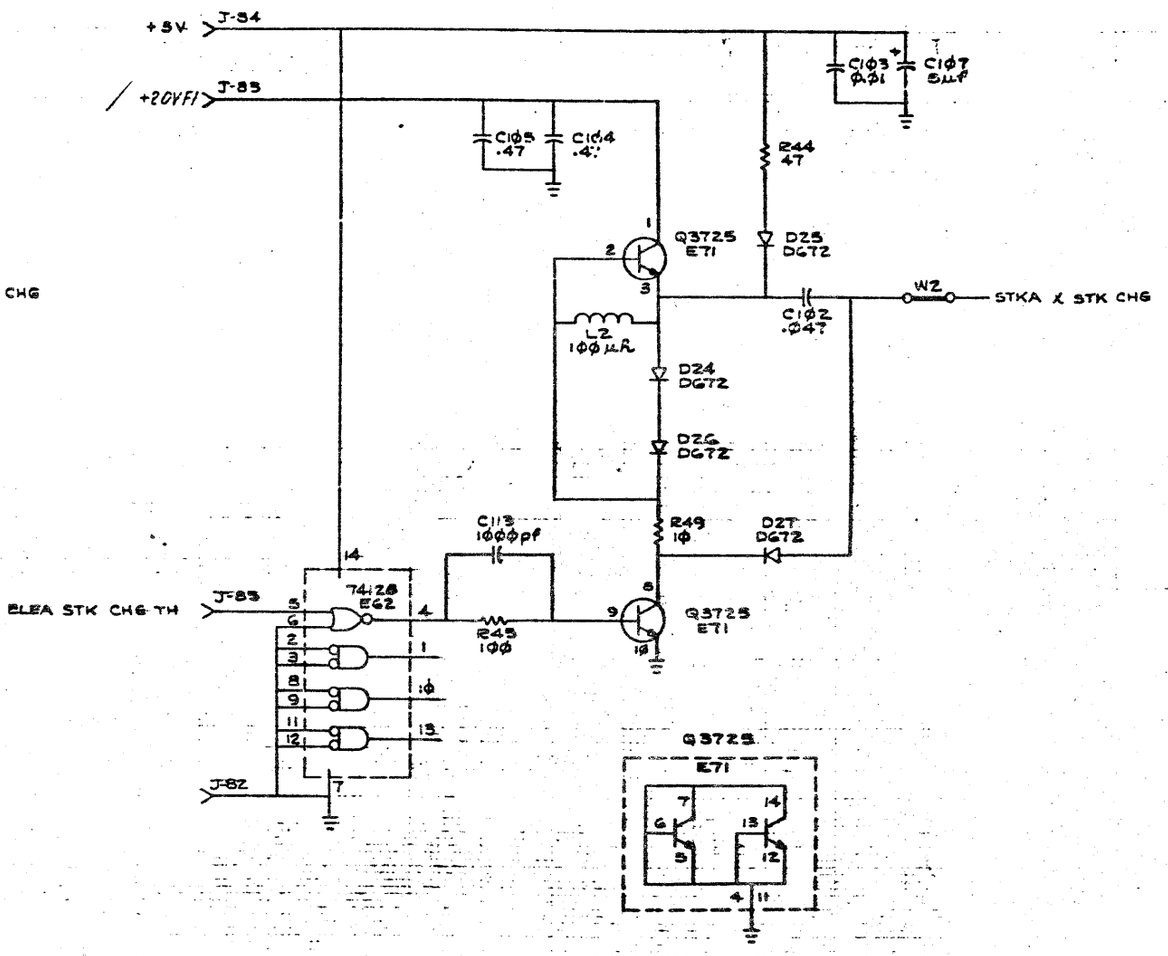
NOTE:
IC 7528
GND PIN-9
+5V PIN-16





REVISIONS			
CHK	CHANGE NO.	REV.	
BU	5412149-M0001	D	
A. Wilson 12-Oct-78			
W. COATES			
W. Coates 11-9-78			

DRN		DATE	FIRST USED ON: H228B
CHK'D BY		DATE	digital
ENG. ASSY.		DATE	TITLE: 32K SPC MEMORY (STKA)
PROJ. ENGR		DATE	
PROD. ENGR		DATE	
NEXT HIGHER ASSY.			
B-DD-5412149-0			SIZE D CODE CS NUMBER 5412149-0-1 REV. D
SCALE			
SHEET 1 OF 16			DIST.

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NOTE:
Y LINE ϕ CAN HAVE
A CURRENT LOOP

R53 R53-9 11ϕ R53-8 11ϕ R53-7 11ϕ R53-6 11ϕ — STK A Y STK CHG

R52 R52-9 11ϕ R52-8 11ϕ R52-7 11ϕ R52-6 11ϕ

J86

ELES YWϕ7 — EGϕ — Y125 11, Y121 12, Y117 9, Y113 8, Y1ϕ9ϕ 7, Y1ϕ5ϕ 5, Y1ϕ1 3, Y97 2 — ELES YRϕ7
ELES YWϕ6 — ES9 — Y124 2, Y12ϕ 3, Y116 5, X112 7, Y1ϕ8ϕ 12, Y1ϕ4 11, Y1ϕϕ 9, Y96 8 — ELES YRϕ6
ELES YWϕ5 — ES8 — Y65 7, Y69 8, Y73 9, Y77 11, Y81 12, Y85 5, Y89 3, Y93 2 — ELES YRϕ5
ELES YWϕ4 — ES7 — Y64 11, Y68 12, Y72 7, Y76 5, Y8ϕ 2, Y84 3, Y88 8, Y92 9 — ELES YRϕ4
ELES YWϕ3 — ES6 — Y61 2, Y57 3, Y53 5, Y49 12, Y45 11, Y41 9, Y37 8, Y33 7 — ELES YRϕ3
ELES YWϕ2 — ES5 — Y6ϕ 8, Y56 9, Y52 7, Y48 2, Y44 3, Y4ϕ 5, Y36 11, Y32 12 — ELES YRϕ2
ELES YWϕ1 — ES4 — Y1 7, Y5 5, Y9 9, Y13 11, Y17 12, Y21 8, Y25 2, Y29 3 — ELES YRϕ1
ELES YWϕϕ — ES3 — Yϕ 12, Y4 11, Y8 9, Y12 2, Y16 3, Y2ϕ 5, Y24 7, Y28 8 — ELES YRϕϕ

J87 5 6 3 4 1 2 29 30 J86

ELER Yϕϕϕ, ELER Yϕ1ϕ, ELER Yϕ2ϕ, ELER Yϕ3ϕ, ELER Yϕ4ϕ, ELER Yϕ5ϕ, ELER Yϕ6ϕ, ELER Yϕ7ϕ

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
32K SPC MEMORY (STKB)	D	CS	5412149-Ø-1	D
SCALE — SHEET 2 OF 16	DIST.			

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STK A Y STK CHG

R52 — R52-1 11Ø — R52-2 11Ø — R52-3 11Ø — R52-4 11Ø

R53 — R53-1 11Ø — R53-2 11Ø — R53-3 11Ø — R53-4 11Ø

E19
ELES YWØ7 — ELES YRØ7
OY127 11 — OY123 9 — OY119 8 — OY115 12 — OY111 2 — OY107 3 — OY103 5 — OY99 7

E18
ELES YWØ6 — ELES YRØ6
OY126 7 — OY122 5 — OY118 3 — OY114 2 — OY110 12 — OY106 11 — OY102 8 — OY98 9

E17
ELES YWØ5 — ELES YRØ5
OY67 2 — OY71 3 — OY75 12 — OY79 11 — OY83 5 — OY87 9 — OY91 8 — OY95 7

E16
ELES YWØ4 — ELES YRØ4
OY66 11 — OY7Ø 9 — OY74 8 — OY78 3 — OY82 5 — OY86 7 — OY9Ø 2 — OY94 12

E15
ELES YWØ3 — ELES YRØ3
OY63 7 — OY59 5 — OY55 3 — OY51 9 — OY47 8 — OY43 11 — OY39 12 — OY35 2

E14
ELES YWØ2 — ELES YRØ2
OY62 11 — OY58 12 — OY54 5 — OY5Ø 7 — OY46 3 — OY42 2 — OY38 8 — OY34 9

E13
ELES YWØ1 — ELES YRØ1
OY3 2 — OY7 9 — OY11 8 — OY15 11 — OY19 12 — OY23 3 — OY27 7 — OY31 5

E12
ELES YWØØ — ELES YRØØ
OY2 8 — OY6 3 — OY1Ø 7 — OY14 5 — OY18 2 — OY22 9 — OY26 11 — OY3Ø 12

ELER Y1ØØ — ELER Y11Ø — ELER Y12Ø — ELER Y13Ø — ELER Y14Ø — ELER Y15Ø — ELER Y16Ø — ELER Y17Ø

J8G 21 22 23 24 25 26 27 28

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
32K SPC MEMORY (STKC)	D	CS	5412149-Ø-1	D
SCALE —	SHEET 3 OF 16	DIST.		

DEC FORM NO. 6910 1/80

DCS 5412149-Ø-1 REV D

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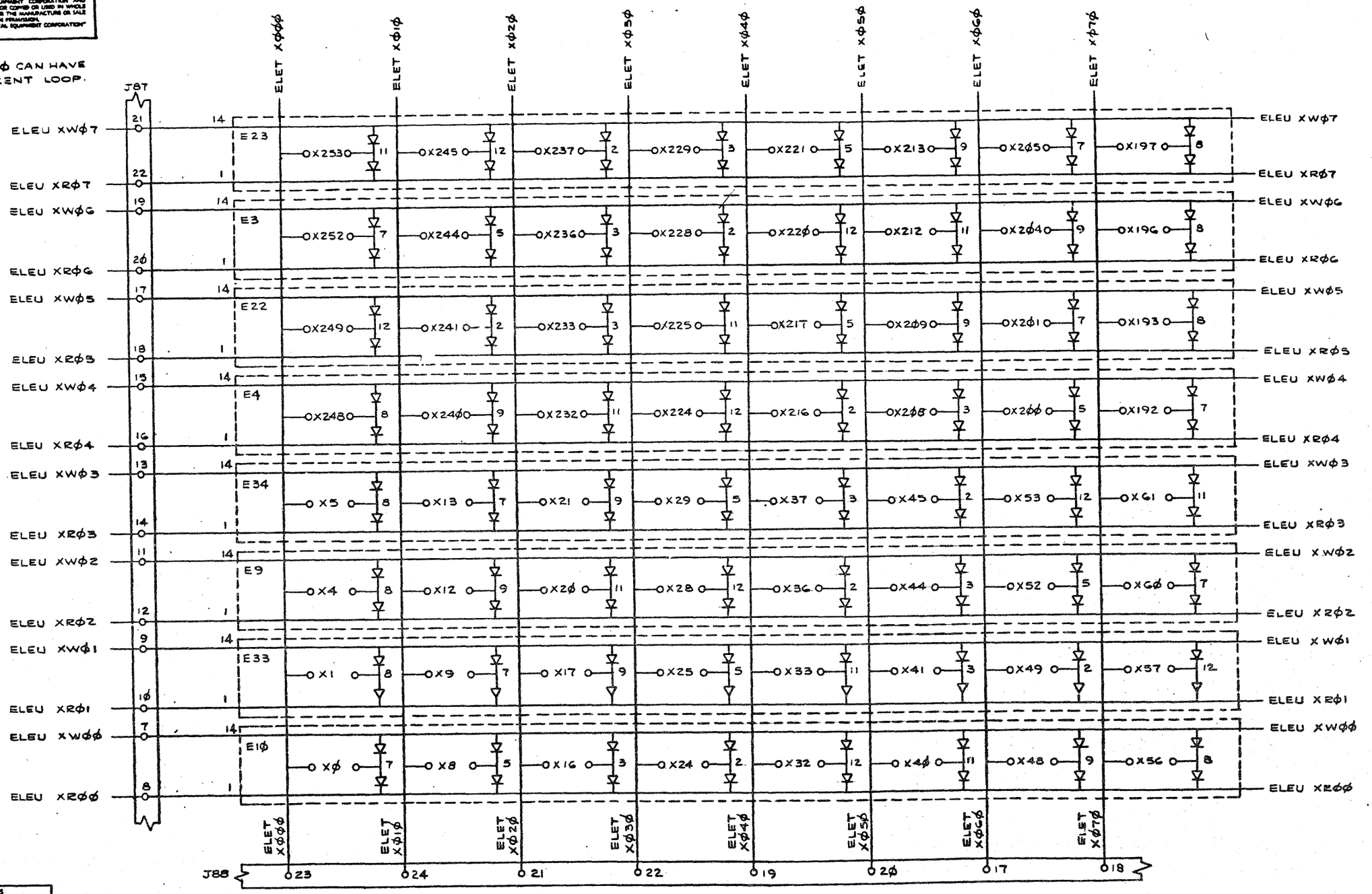
NOTE:
X LINE Φ CAN HAVE A CURRENT LOOP.



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
32K SPC MEMORY (STKD)	D	CS	5412149-Ø-1	D
SCALE —	SHEET 4 OF 16		DIST.	

DEC Form No. SHB 128

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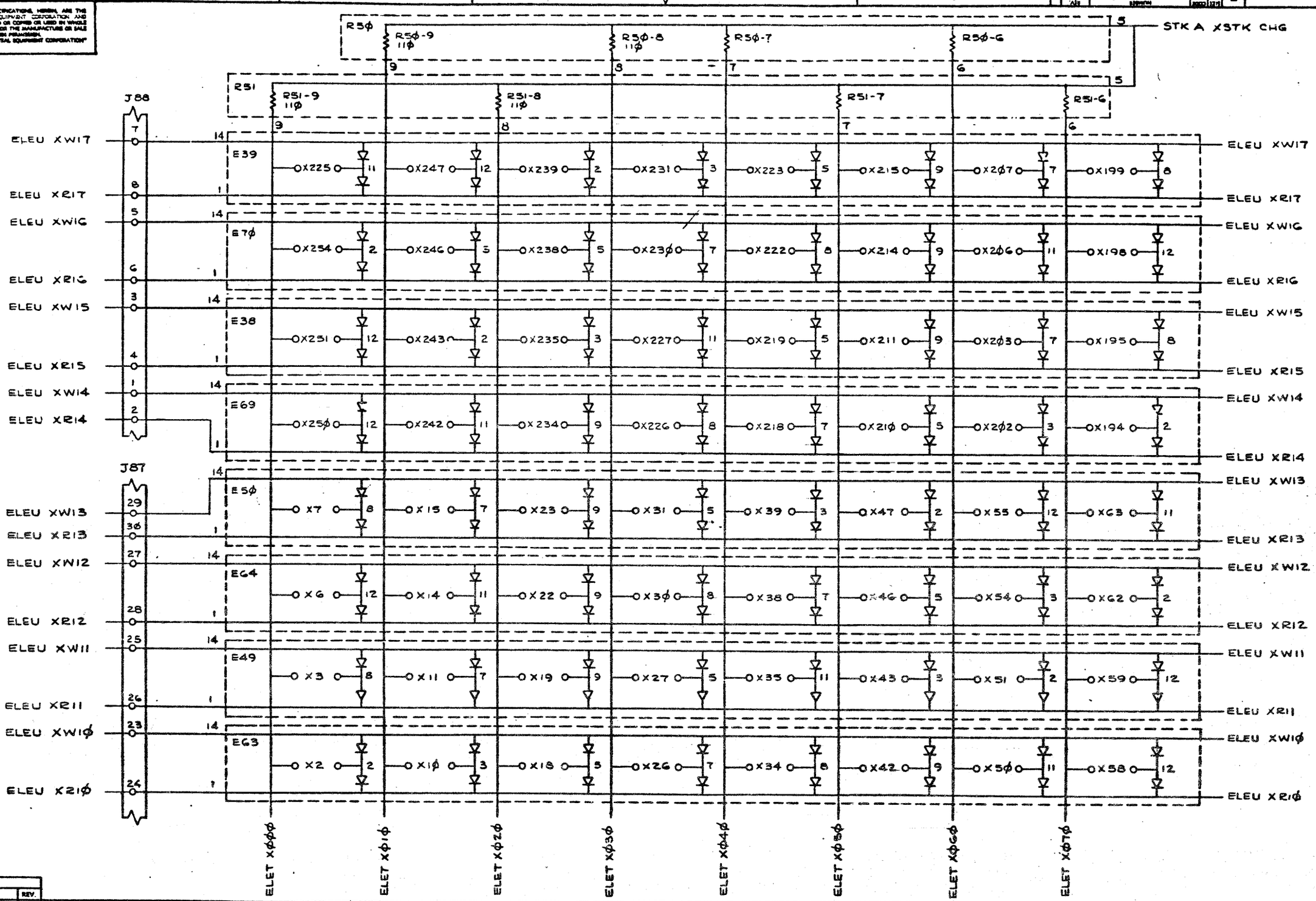

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
32K SPC MEMORY (STKE)	D	CS	5412149-Ø-1	D
SCALE —	SHEET 5 OF 16		DIST.	

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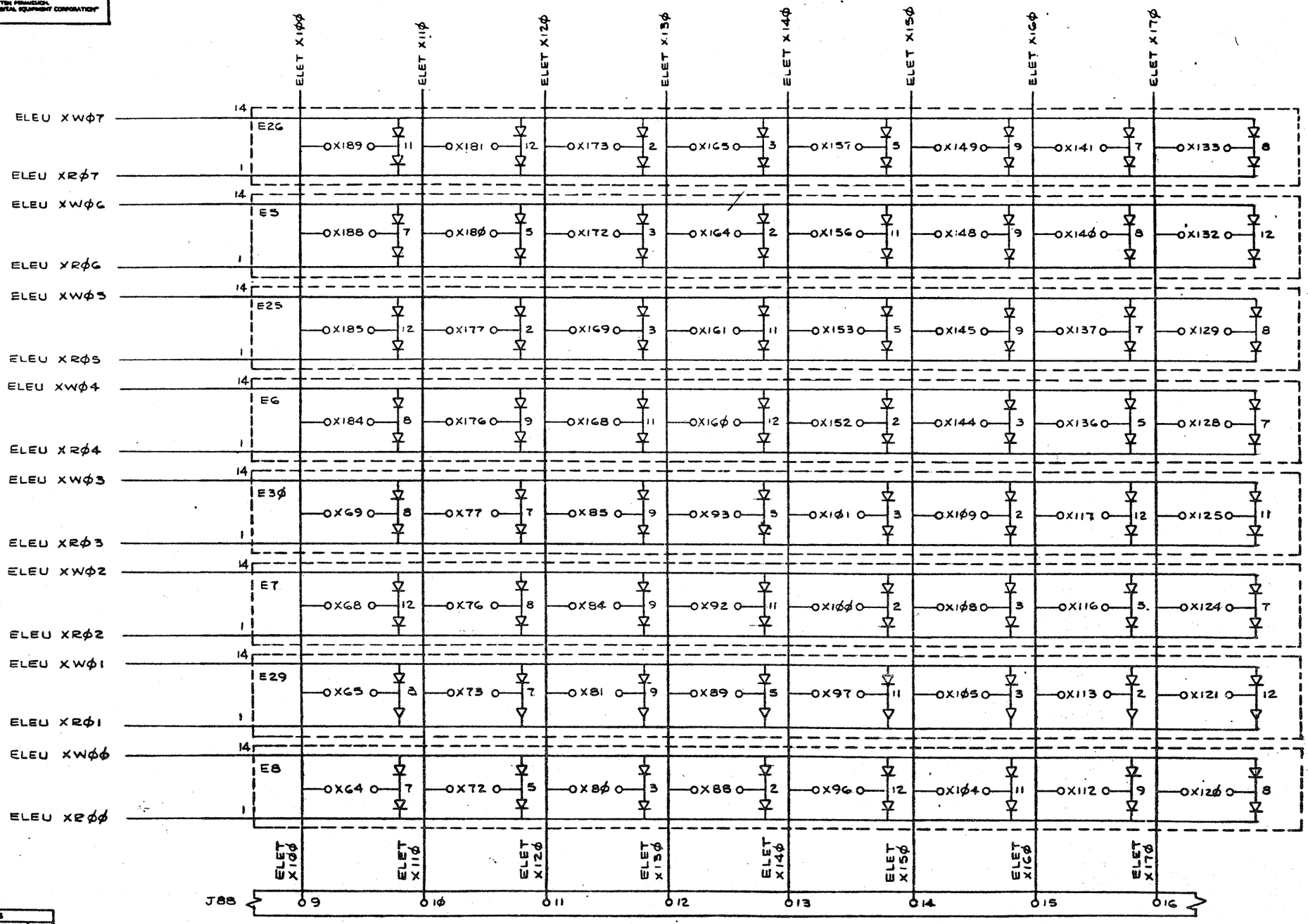

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
32K SPC MEMORY (STKF)	D	CS	5412149-Ø-1	D
SCALE	SHEET 6 OF 16	DIST.		

DCS 5412149-Ø-1 REV. D

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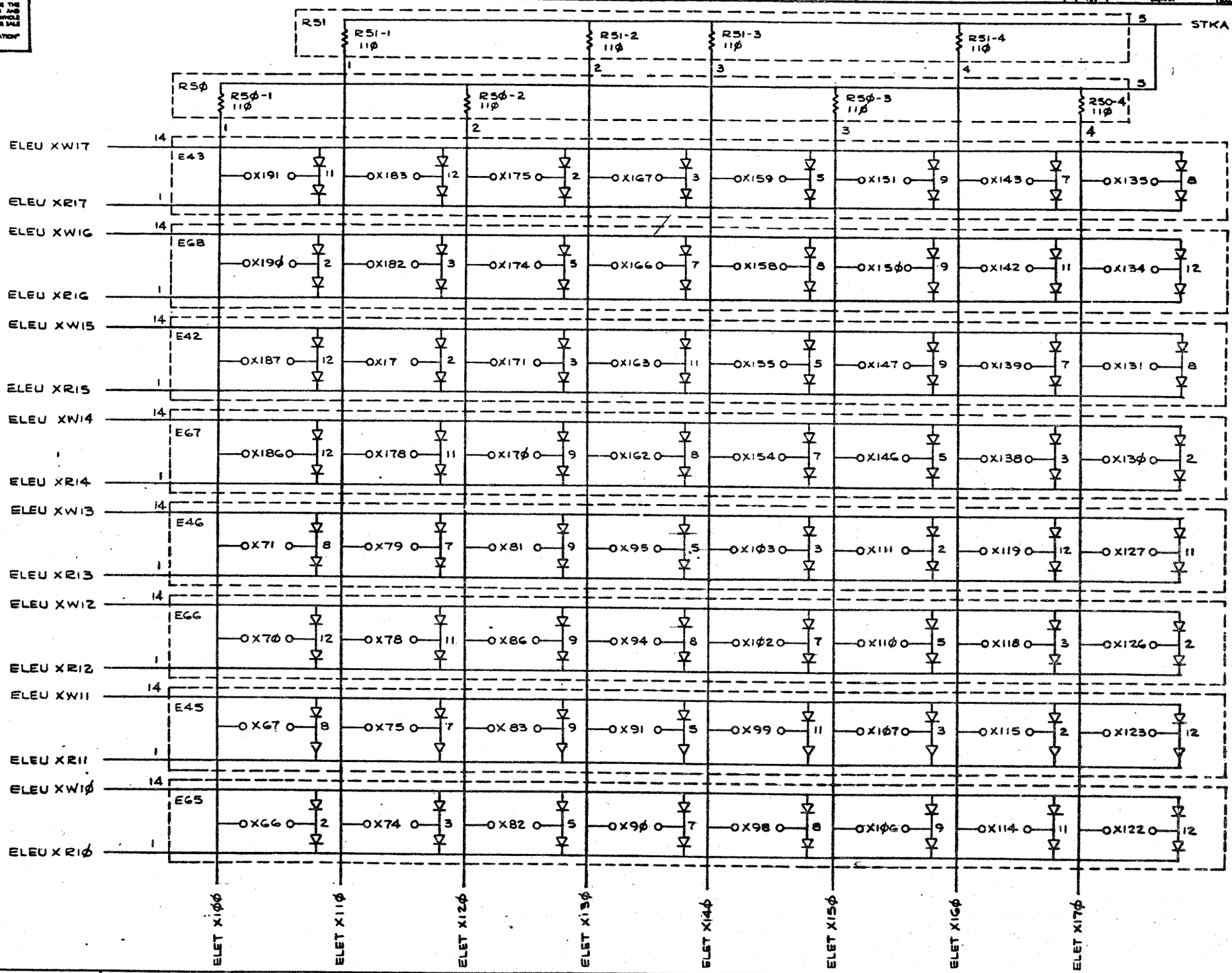

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
32K SPC MEMORY (STKH)	D	DCS	5412149-ϕ-1	D
SCALE —	SHEET 7 OF 16	DIST.		

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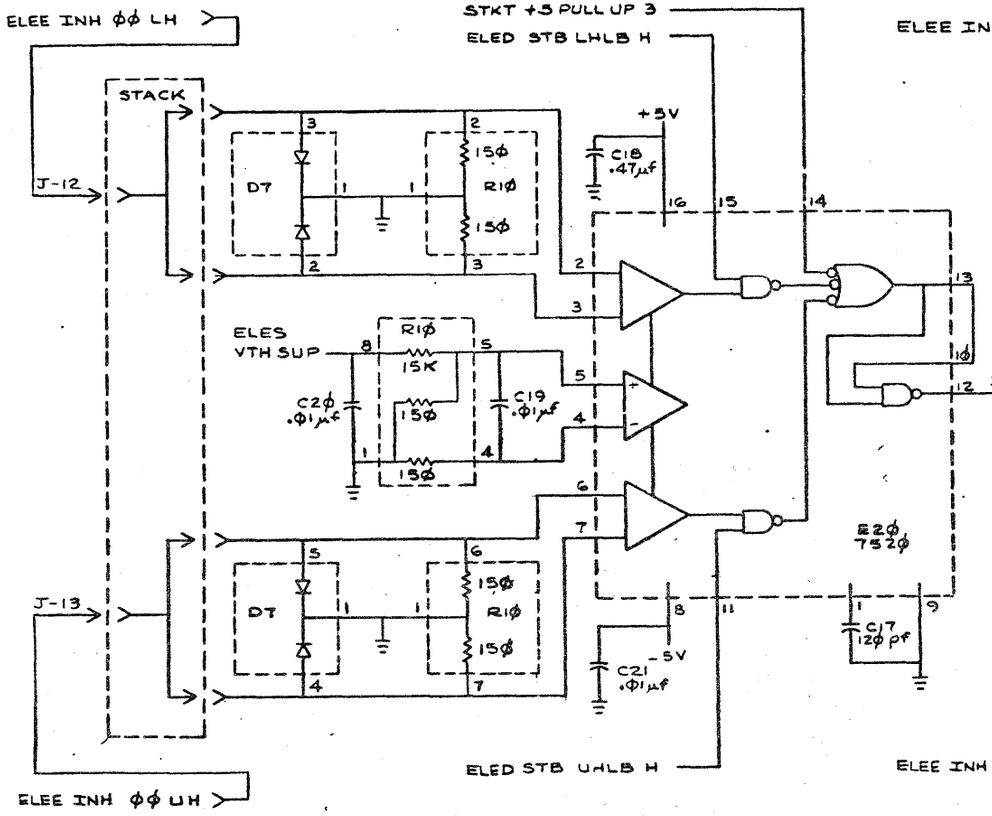
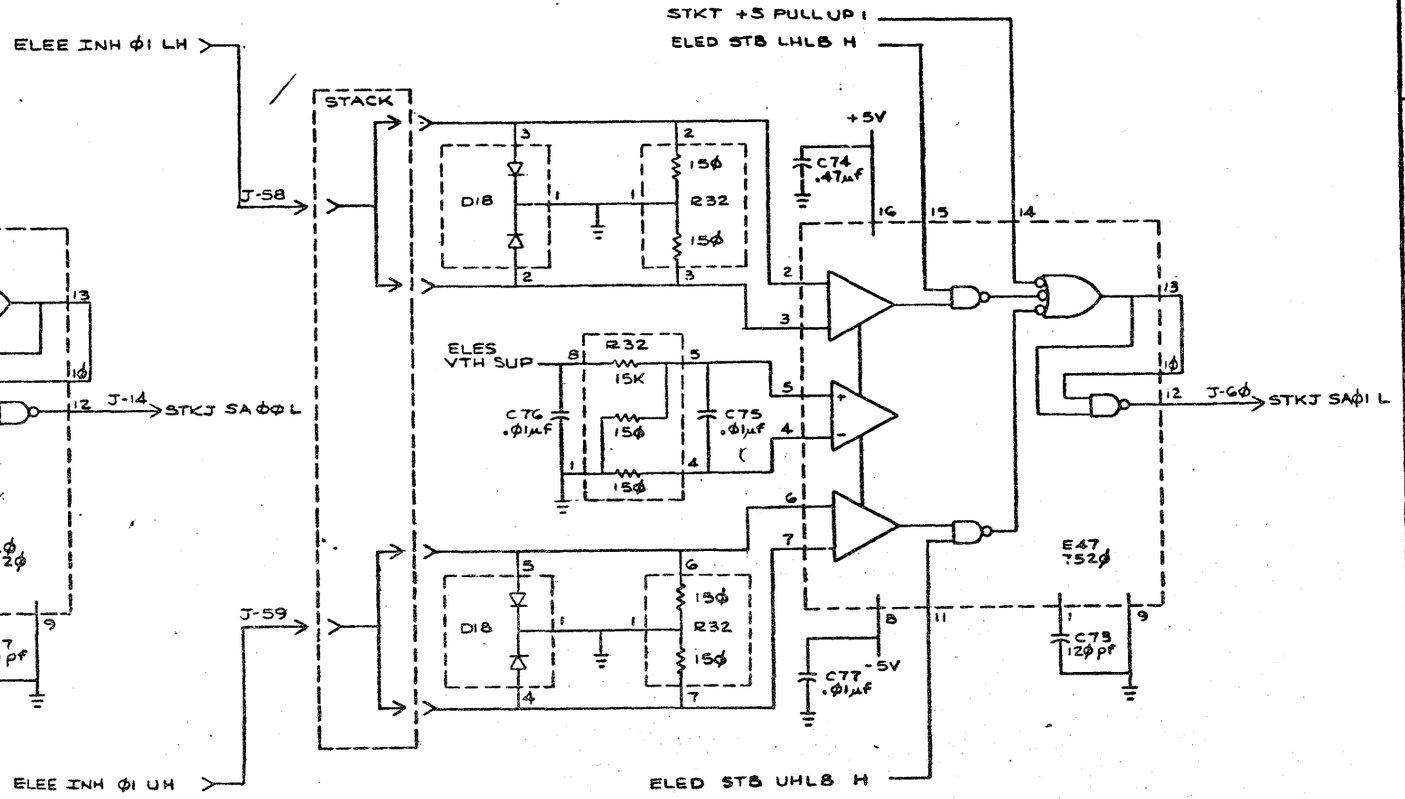
BIT ϕ



BIT 1



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
SPC 32K (STKJ) MEMORY	D	DCS	5412149-Ø-1	D
SCALE — SHEET 8 OF 16	DIST.			

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BIT 2

ELEF INH ϕ2 LH
STKT +5 PULL UP 1
ELED STB LHLB H
STACK
J-51
J-52
DIG
R28
15ϕ
+5V
C64 .47μf
ELES VTH SUP
R28
15K
15ϕ
C66 .01μf
C65 .01μf
C63 120 pf
C67 .01μf
-5V
J-53
STKK SA ϕ2 L
ELED STB UHLB H
ELEF INH ϕ2 UH

BIT 3

ELEF INH ϕ3 LH
STKT +5 PULL UP 3
ELED STB LHLB H
STACK
J-33
J-34
DI3
R22
15ϕ
+5V
C47 .47μf
ELES VTH SUP
R22
15K
15ϕ
C49 .01μf
C48 .01μf
C46 120pf
C50 .01μf
-5V
E32 752ϕ
J-35
STKK SAϕ3 L
ELED STB UHLB H
ELEF INH ϕ3 UH

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	NUMBER	REV.
SPC 32K (STKK) MEMORY	D	DCS 5412149-0-1	D
SCALE —	SHEET 9 OF 16	DIST.	

DCS 5412149-0-1 D

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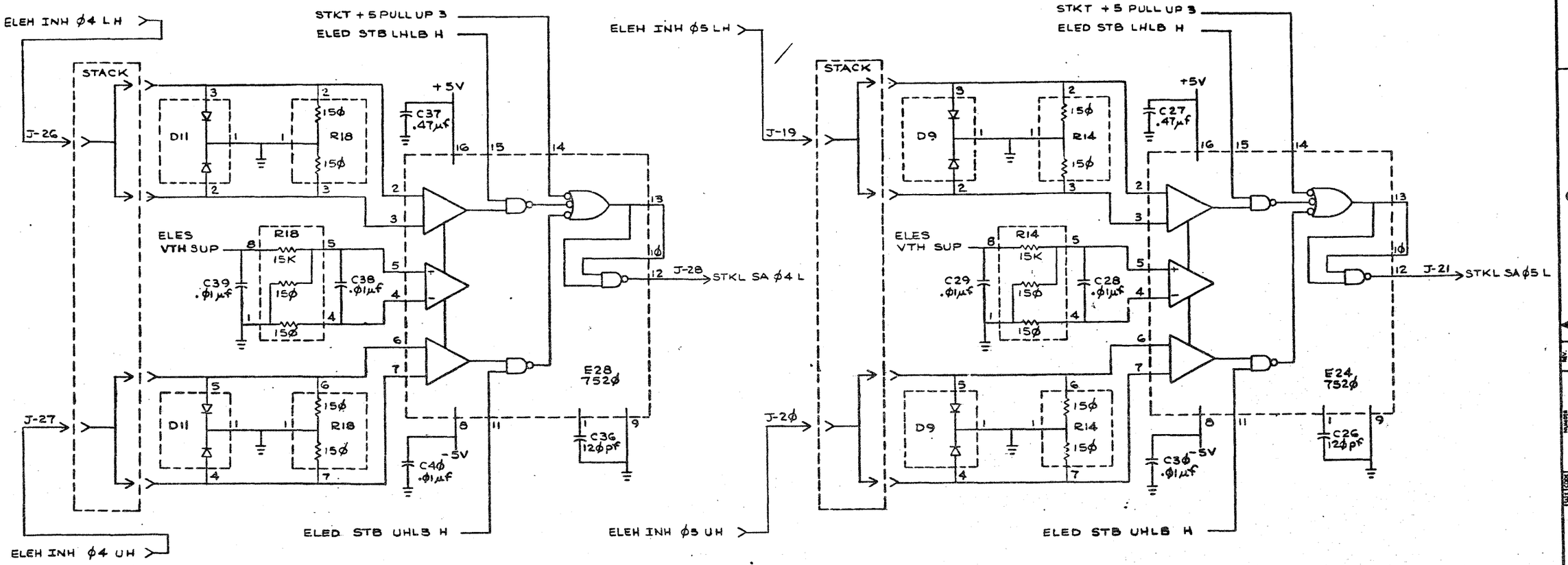
BIT 4

BIT 5



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
SPC 32K (STKL) MEMORY	D	CS	5412149-0-1	D
SCALE — SHEET 10 OF 16	DIST.			

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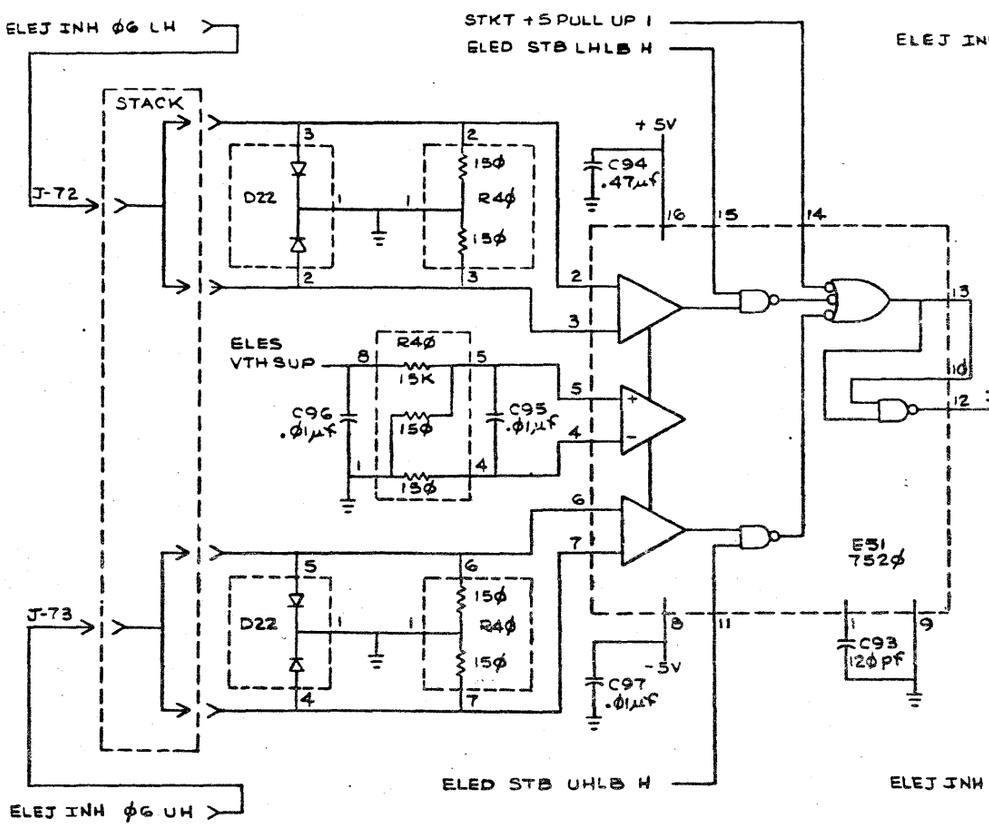
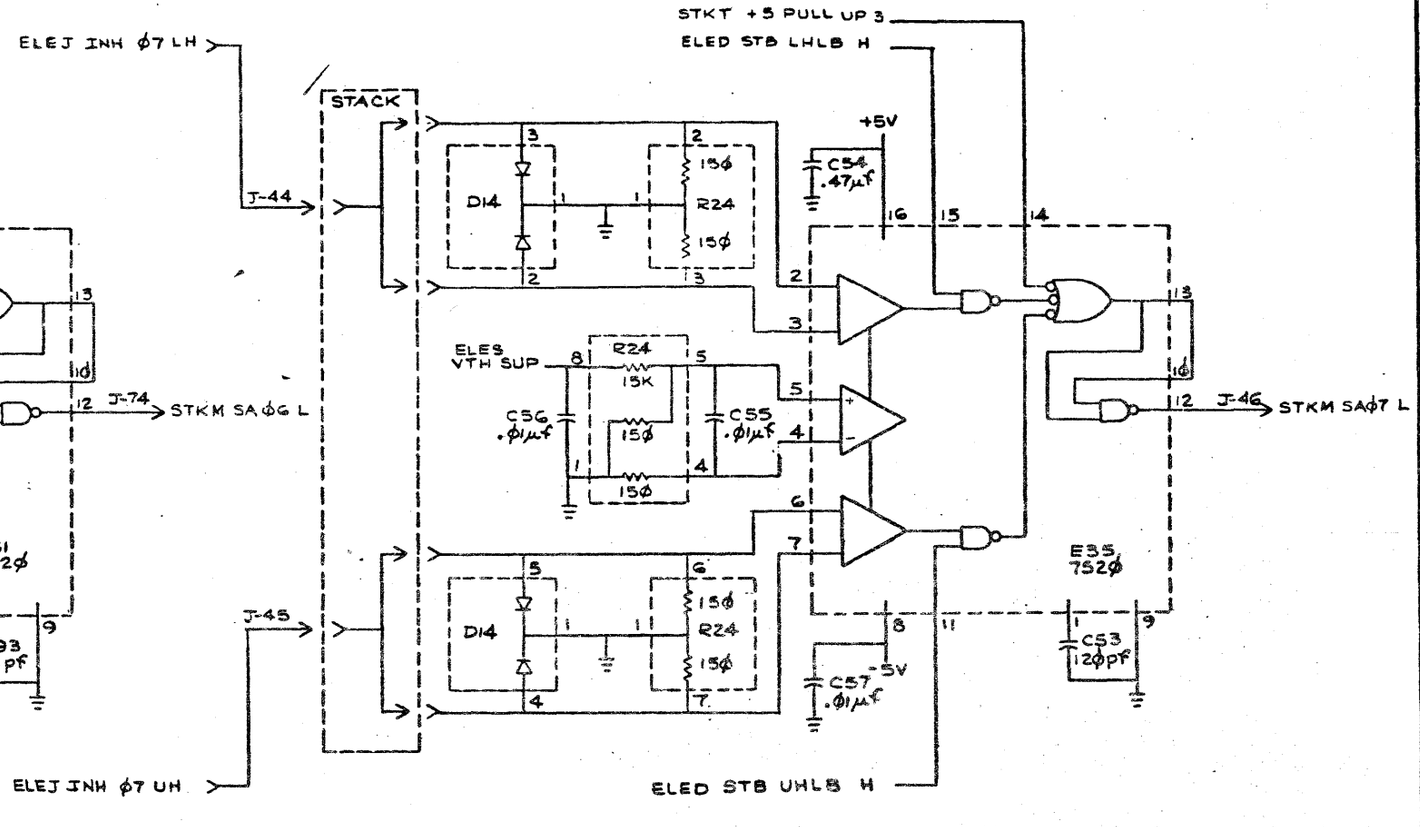
BIT 6



BIT 7



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE	CODE	NUMBER	REV.
SPC 32K (STKM) MEMORY		D	DCS	5412149-0-1	D
SCALE	SHEET 11 OF 16	DIST.			

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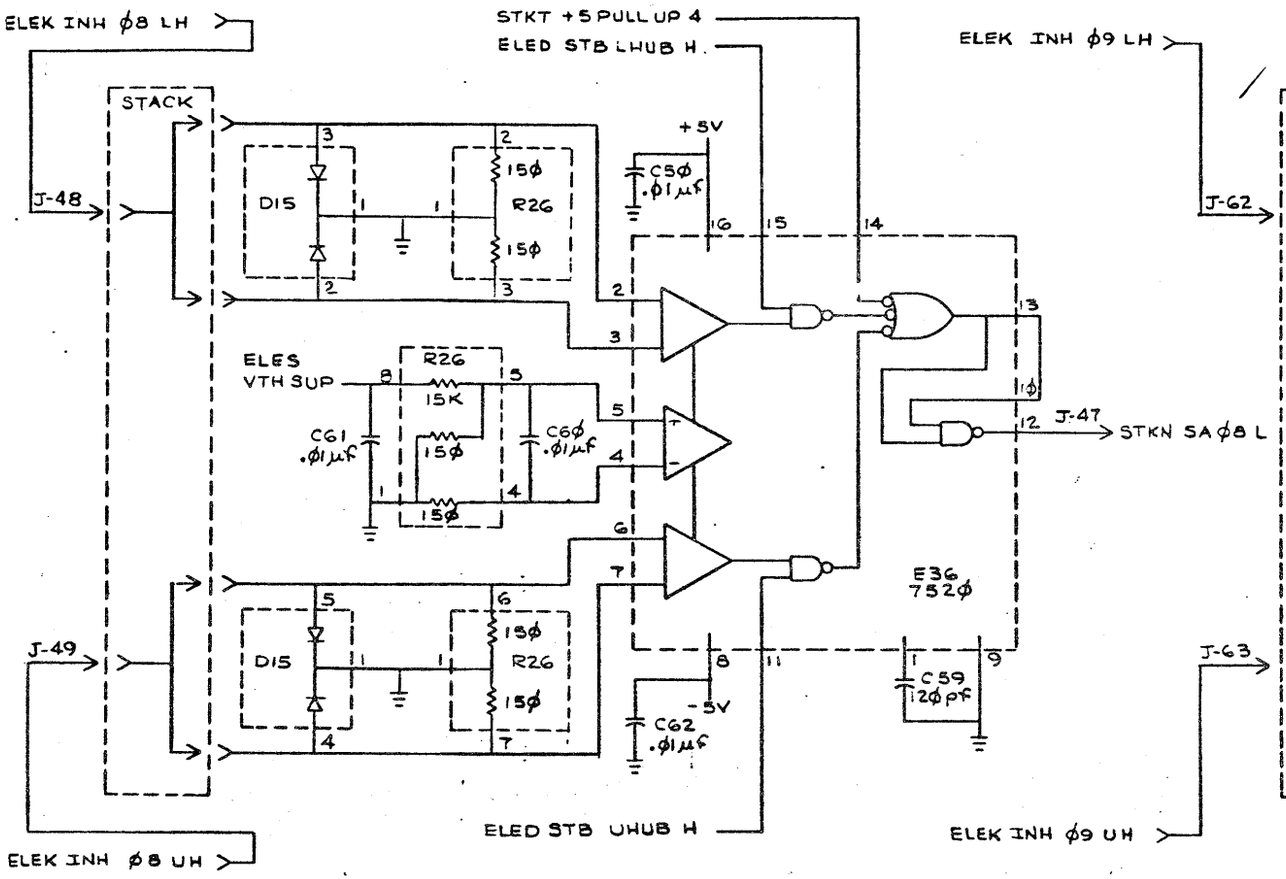
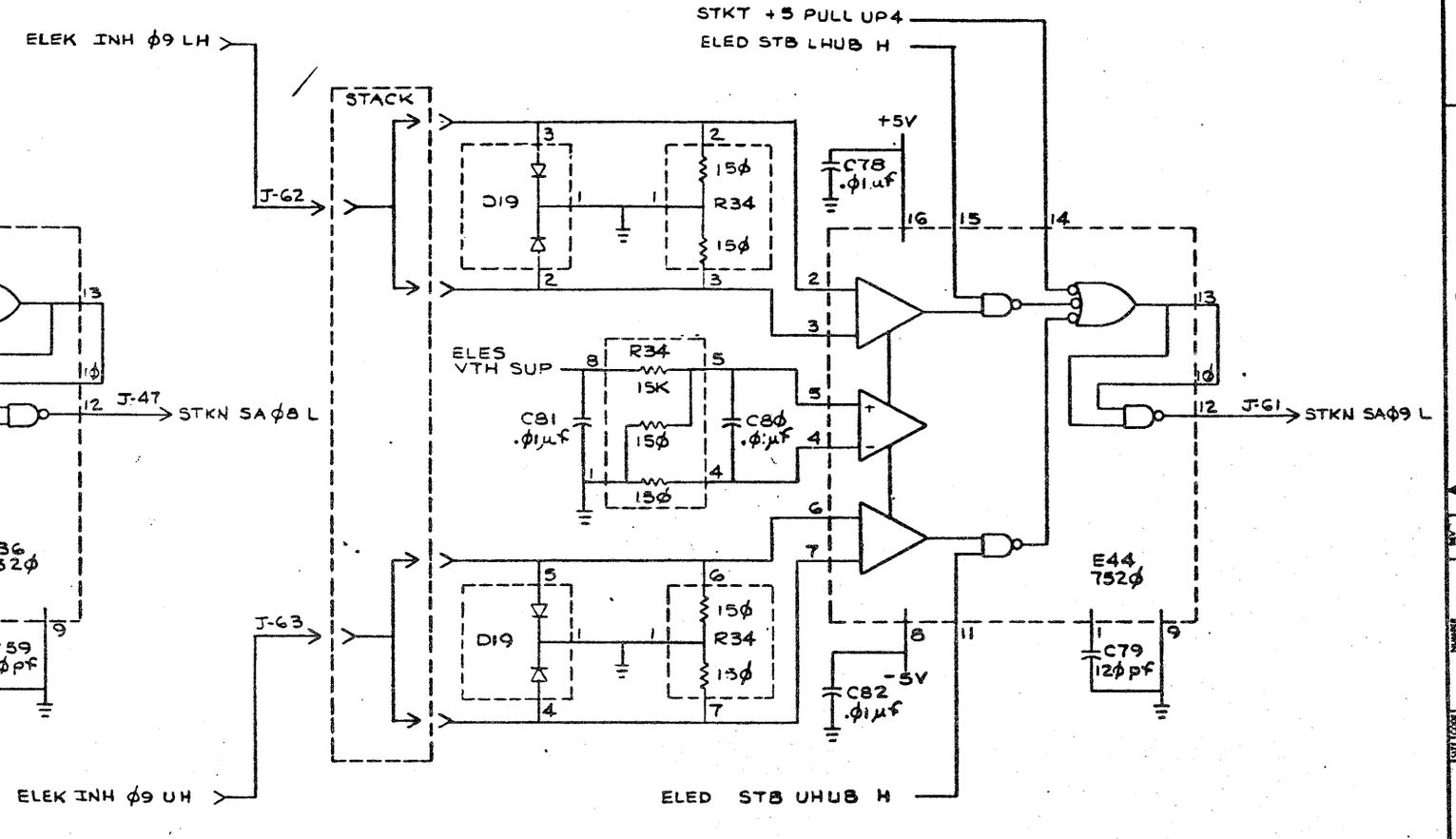
BIT 8



BIT 9



REVISIONS		
CHK	CHANGE NO.	REV

TITLE	SIZE	CODE	NUMBER	REV.
SPC - MEMORY 32K (STKN)	D	CS	5412149-Ø-1	D
SCALE —	SHEET 12 OF 16	DIST.		

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BIT 1Ø

ELEL INH 1Ø LH

STKT +5 PULL UP /
ELED STB LHUB H

STACK

J-79

J-8Ø

D28

R46

15Ø

15K

+5V

-5V

C1Ø9 .47µf

C111 .Ø1µf

C11Ø .Ø1µf

C112 .Ø1µf

C1Ø8 12Ø pf

ELES VTH SUP

EG1 752Ø

J-81

STKP SA 1Ø L

ELED STB UHUB H

ELEL INH 1Ø UH

BIT 11

ELEL INH 11 LH

J-55

J-56

D17

R3Ø

C68 .Ø1µf

C71 .Ø1µf

C7Ø .Ø1µf

C72 .Ø1µf

C69 12Ø pf

E4Ø 752Ø

J-54

STKP SA11 L

ELELINH 11 UH

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
SPC 32K (STKP) MEMORY	D	DCS	5412149-Ø-1	D1
SCALE — SHEET 13 OF 16	DIST.			

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BIT 12

ELEM INH 12 LH

STKT +5 PULL UP 4

ELED STB LHUB H

STACK

J-76

J-77

D23

R42

15ϕ

15ϕ

+5V

C98 .ϕ1μf

ELES VTH SUP

R42 15K

C1ϕ1 .ϕ1μf

C1ϕϕ .ϕ1μf

15ϕ

15ϕ

C1ϕ6 .ϕ1μf

-5V

E52 752ϕ

C99 12ϕpf

J-75

STKR SA12 L

ELED STB UHUB H

ELEM INH 12 UH

BIT 13

ELEM INH 13 LH

STKT +5 PULL UP 4

ELED STB LHUB H

STACK

J-69

J-7ϕ

D21

R38

15ϕ

15ϕ

+5V

C88 .ϕ1μf

ELES VTH SUP

R38 15K

C91 .ϕ1μf

C9ϕ .ϕ1μf

15ϕ

15ϕ

C92 .ϕ1μf

-5V

E48 752ϕ

C89 12ϕpf

J-68

STKR SA13 L

ELED STB UHUB H

ELEM INH 13 UH

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE	CODE	NUMBER	REV.
SPC 32K (STKR) MEMORY		D	DCS	5412149-Ø-1	D
SCALE	SHEET 14 OF 16	DIST.			

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BIT 14

ELEN INH 14 LH

STKT +5 PULL UP 2

ELED STB LHUB H

STACK

J-16

J-17

D8

R12

15Ø

+5V

C114 .Ø1µf

ELES VTH SUP

R12

15K

15Ø

C24 .Ø1µf

C23 .Ø1µf

E21 752Ø

C22 12Øpf

J-15

STKS SA 14 L

C25 .Ø1µf

-5V

ELED STB UHUB H

ELEN INH 14 UH

BIT 15

ELEN INH 15 LH

STKT +5 PULL UP 2

ELED STB LHUB H

STACK

J-30

J-31

D12

R2Ø

15Ø

+5V

C41 .Ø1µf

ELES VTH SUP

R2Ø

15K

15Ø

C44 .Ø1µf

C43 .Ø1µf

E31 752Ø

C42 12Øpf

J-29

STKS SA15 L

C45 .Ø1µf

-5V

ELED STB UHUB H

ELEN INH 15 UH

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE SPC 32K (STKS) MEMORY		SIZE D	CODE DCS	NUMBER 5412149-Ø-1
SCALE	SHEET 15 OF 16	DIST.		REV. D

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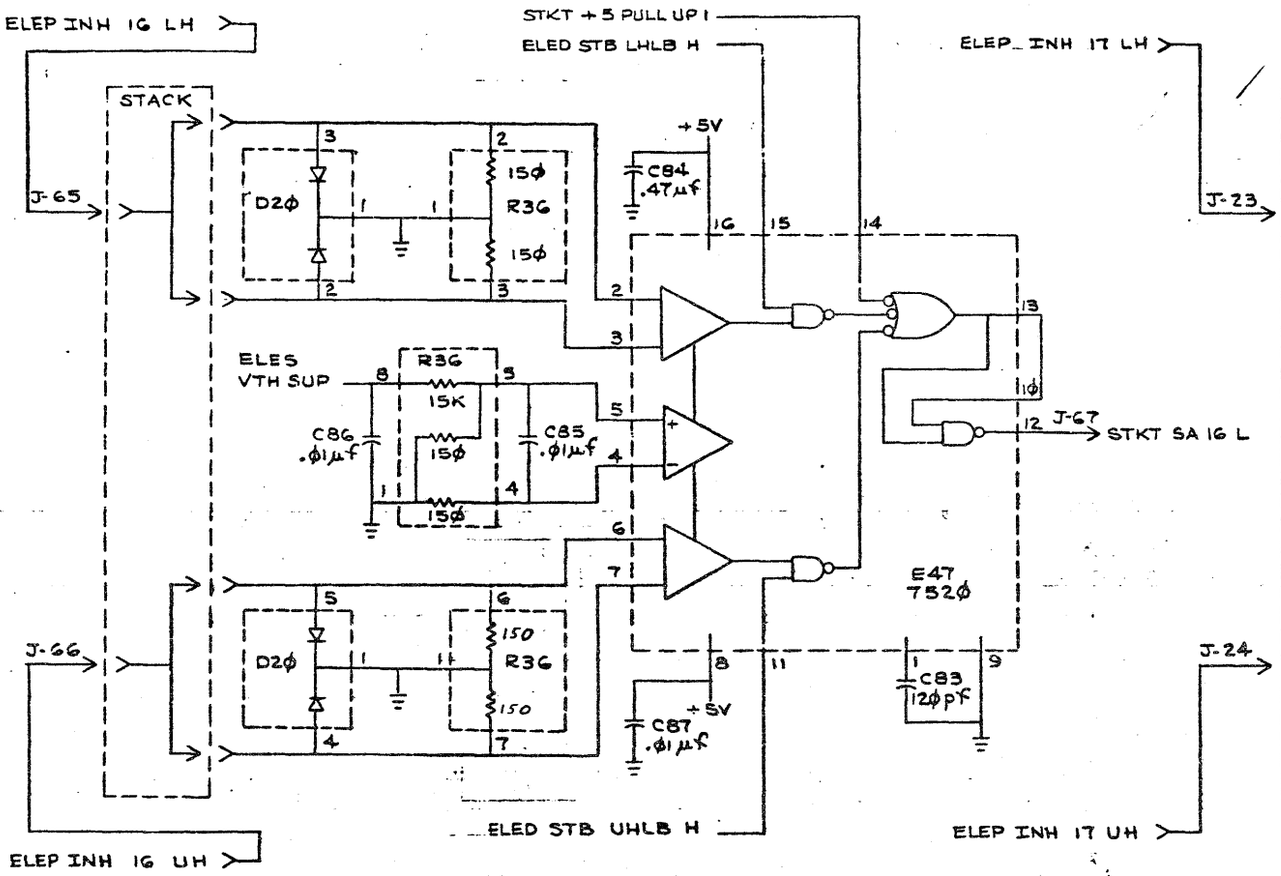
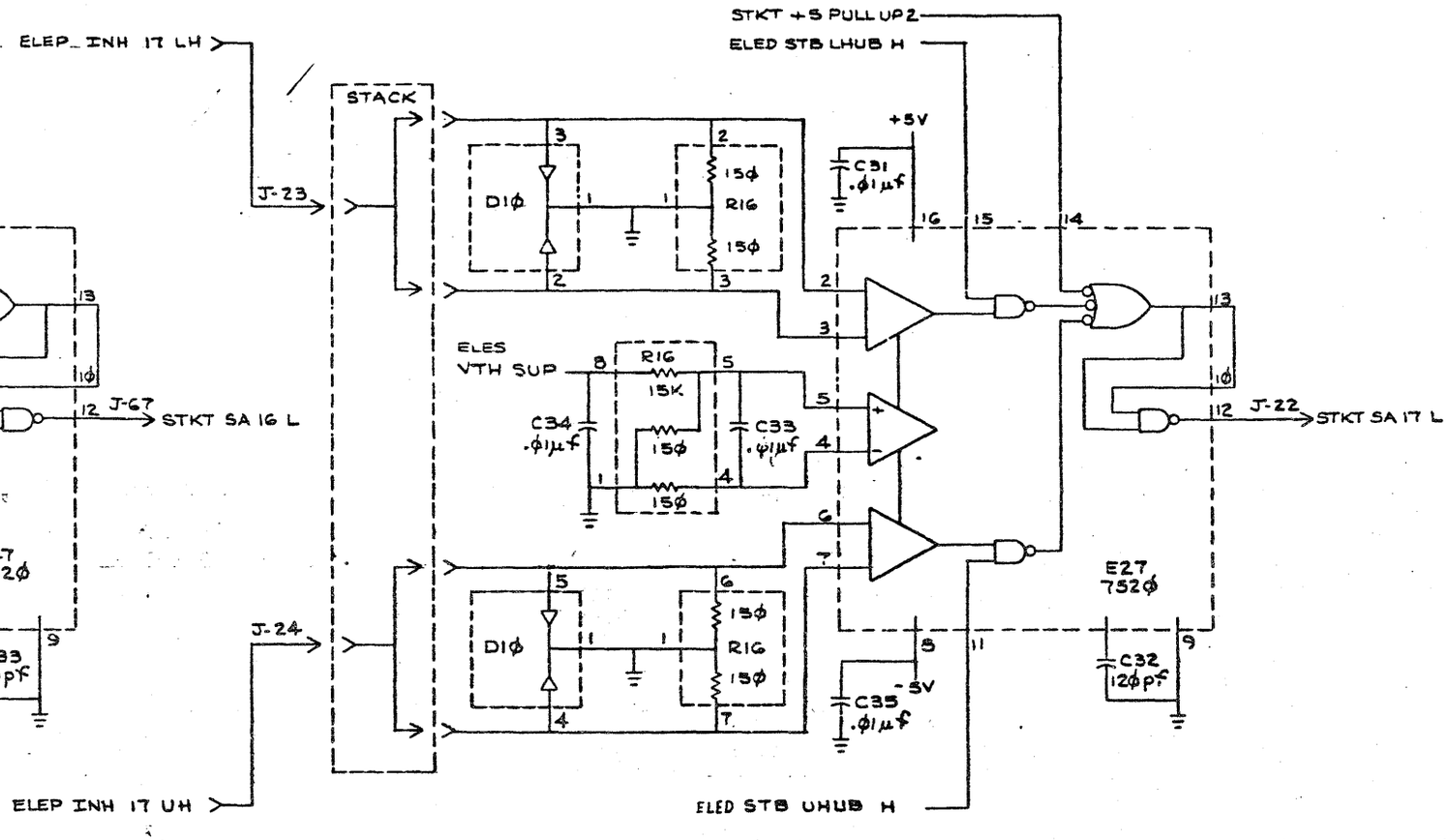
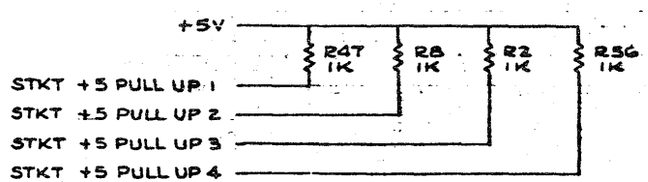
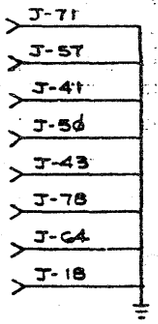
BIT 16

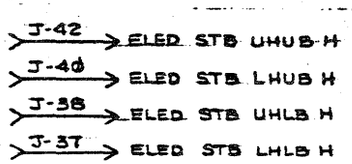


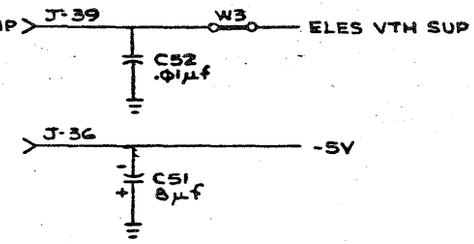
BIT 17







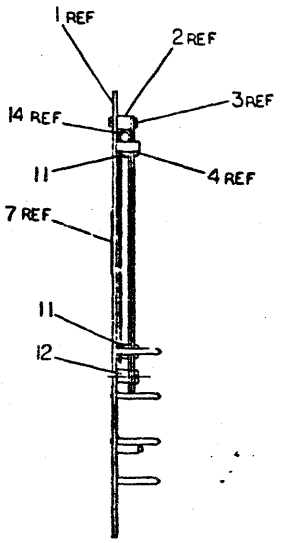


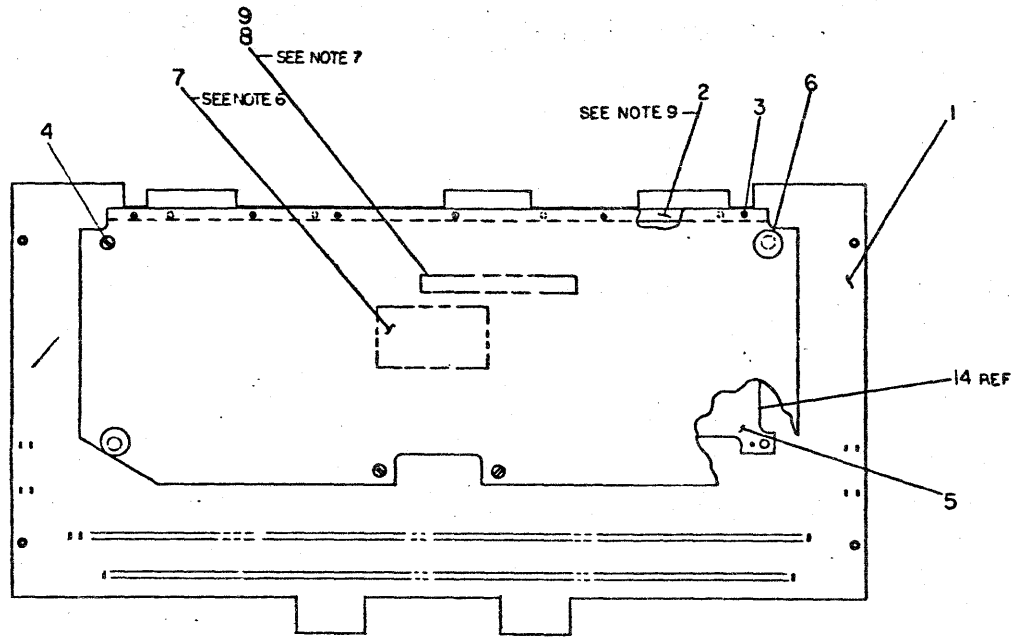


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE: SPC 32K (STKT) MEMORY			SIZE D / CODE DCS	NUMBER 5412149-Ø-1 / REV. D
SCALE	SHEET 16 OF 16	DIST.		

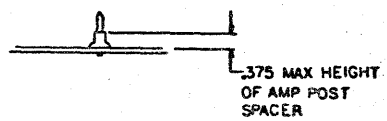
DEC FORM NO. CSD 1.20

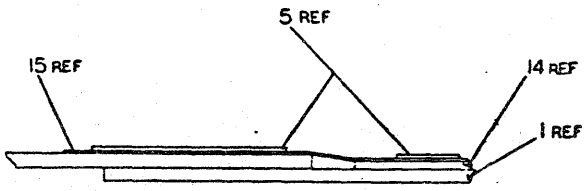


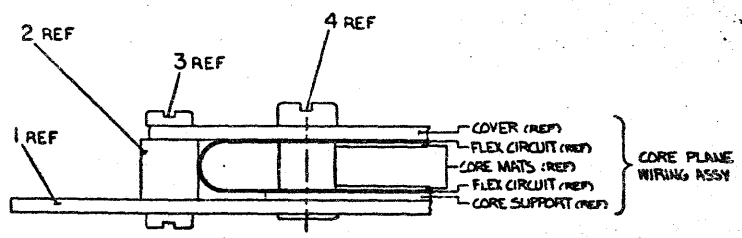


NOTES:

1. BOND CORE PLANE ASS'Y (ITEM NO. 5) TO THE STACK BD. (ITEM NO. 1) WITH ADHESIVE (ITEM NO. 10).
2. INSTALL THREADED CAMBION SPACERS (ITEM NOS. 11 AND 12) THRU STACK BOARD (ITEM NO. 1) AND CLINCH IN PLACE.
3. USE PROTECTIVE COATING (ITEM NO. 13) TO COAT ALL MAGNETIC WIRE TERMINATIONS AFTER ELECTRICAL TEST. REF DWG. E-1A-701370T-0-0
4. CLOSE COVER (PARTS OF ITEM NO. 5) AND SECURE STIFFENER SPACER (ITEM NO. 2) TO STACK BOARD (ITEM NO. 1) WITH FOUR #2-56 SCREWS (ITEM NO. 3.)
5. SECURE COVER TO STIFFENER SPACER (ITEM NO. 2) WITH SIX #2-56 SCREWS (ITEM NO. 3) AND TO CAMBION SPACERS (ITEM NO. 11 & 12) WITH 6 #4-40 SCREWS (ITEM NO. 4)
6. APPLY NAME PLATE (ITEM NO. 7) TO SIDE 2 OF STACK BOARD (ITEM NO. 1) APPROXIMATELY WHERE SHOWN.
7. LABEL STACK BOARD (ITEM NO. 1) ON SIDE 2 WITH THE DEC PART NUMBER SEQUENTIAL SERIAL NUMBER, C S REVISION USING INK (ITEM NO. 9) AND EPOXY (ITEM NO. 8) EXAMPLE H229-B-001.
8. PLACE WARRANTY SEALS (ITEM NO. 6) OVER SCREW HEADS AS SHOWN.
9. STIFFENER SPACER (ITEM NO. 2) ORIENTATION MARK SHOULD BE PLACED ON THIS END.







REF	FLEX CIRCUIT ASSY (32K-SPC)	D-FS-1700C910-0-0	15
REF	SUPPORT, CORE (32K-SPC)	D-MD-7M6245-0-0	14
A/R	PROTECTIVE COATING, RED (FMS)	4901093	13
2	STANDOFF .250DIA X .250 LONG	9009677-01	12
4	STANDOFF .250DIA X .68 LONG	9009677-00	11
A/R	ADHESIVE (RTV 3145)	4901088-00	10
A/R	INK, BLACK	4901084-00	9
A/R	EPOXY	4901082-00	8
1	NAME PLATE	3614053-00	7
2	WARRANTY SEAL	3613970-00	6
1	CORE PLANE WIRING ASSY	E-1A-701370T-0-0	5
6	SCR, SLT BNDR HD, NYLON #4-40	9009233-4	4
10	SCR, SLT BNDR HD, NYLON #2-56	9000009-01	3
1	STIFFENER SPACER (32K-SPC)	D-PS-1276232-0-0	2
1	STACK BOARD (32K-SPC)	D-UA-5412149-0-0	1
	DESCRIPTION	DRAWING NO.	ITEM NO.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

ANGLES ±0° 30'	CLASS OF ACCURACY	NOMINAL DIMENSION RANGE (INCHES)					
		0 TO 6	OVER 6 TO 30	OVER 30 TO 120	OVER 120 TO 315	OVER 315 TO 1000	OVER 1000 TO 2000
DECIMALS	PREFERRED	±.005	±.010	±.020	±.030	±.050	±.100

QUANTITY & VARIATION

H228-B

THIRD ANGLE PROJECTION

DO NOT SCALE DRAWING

MATERIAL SEE PARTS LIST

FINISH

DRWN E. [illegible] 3-[illegible]-77

CHK'D [illegible]

ENGR [illegible]

FINAL APPR'D [illegible]

MGR APPR'D [illegible]

NEXT HIGHER ASSY

APPLICATION

DO NOT SCALE DRAWING

SCALE 1/1

SHEET 1 OF 1

FIRST USED ON MMII-YS

TITLE H228-B
CORE MEMORY
STACK ASSEMBLY

SIZE B | CODE 11A | NUMBER H226-B-0 | REV.

NEXT ASSY

H226-B-0

DIGITAL EQUIPMENT CORPORATION

PARTS LIST

MADE BY David Caruso	CHECKED S. Berman	SECTION 1
DATE 11/18/76	DATE 21 FEB 77	
ENG A. Coates	PROD R.G. Hill	ISSUED SECTION 1
DATE 29 APR 77	DATE 29 Apr 77	

NOTES:

USED ON: OPTION/MODEL H228B

NOTE:
1. * = CAP 10-01610-01 CAN BE USED IN PLACE OF 10-01610-00

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY/VARIATION	REF DESIGNATION
	D-CS-5412149-Ø-1		CIRCUIT SCHEMATIC	REF	
	B-DD-5412149-Ø-		DWG DIRECTORY	REF	
	D-MD-5012148-Ø-Ø		DRILL & ETCH DWG	REF	
	D-UA-5412149-Ø-Ø		UNIT ASSEMBLY	REF	
1		10-00042-00	CAP 1000 PF 100V 5% DM	2	C7,C113
2		10-00018-00	CAP 120 PF 100V 5% DM	18	C83,C93,C73,C63,C53,C46,C36,C26,C108,C99 C89,C79,C69,C59,C42,C32,C17,C22
3		5012148	ETCHED CIRCUIT BOARD	1	
4		10-10978-32	CAP .047 UF 50V CER	2	C6,C102
5	*	10-01610-00	CAP 0.01 UF 50V CER	67	C110,C111,C112,C114 C11,C95,C96,C97,C52,C85,C86,C87,C77,C75, C76,C103,C65,C66,C67,C106,C55,C56,C57, C50,C48,C49,C98,C100,C101,C82,C88,C90, C91,C92,C78,C80,C81,C68,C70,C71,C72,C58, C60,C61,C62,C41,C43,C44,C31,C33,C34,C35, C19,C20,C21,C25,C23,C24,C28,C29,C30 C38,C39,C40,C45,C98,C27
10		10-10279-0-0	CAP .47 UF 25V, 20% CER	14	C8,C9,C104,C105,C18,C27,C37,C47,C54,C64, C74,C94,C84,C109
11					
12		10-12084-01	CAP 8 UF 25V AL.EL.	3	C10,C51,C107
13					
14		11-05275-00	DIODE D672	8	D2,D3,D4,D5,D24,D25,D26,D27
15					
16		12-13551-00	CONTACT, PIN, STRAIGHT POST (AMP)	78	J1 thru J4, J12 thru J85
17					
18	—	13-01317-00	RES. 10 ¼W 5% CC	2	R5,R49

E.C.O. NO. ML001

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TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.
32K SPC. MEMORY	D-UA-5412149-0-0	B	PL	5412149-0-0	D
	SHEET 1 OF 3	INSERTION PARTS LIST DATA BASE REV #			

DRB 125

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY David Caruso
DATE 11/18/76
CHECKED G. Boorman
DATE 21 FEB 77
SECTION 1
ENG W. Coates
DATE 29 APR 77
PROD R.A. Hill
DATE 29 Apr 77
ISSUED SECTION 1

NOTES:
USED ON: OPTION/MODEL
H228B

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY / VARIATION	REF DESIGNATION
19		13-00202-00	RES. 47 ¼W 5% CC	2	R3,R44
20		13-00365-00	RES 1K ¼W 5% CC	4	R2,R8,R47,R114
21		13-13217-00	RES NETWORK (6-150Ω 1%, 1-15K 1%)	18	R46,R10,R12,R16,R20,R26,R30,R34,R38, R42,R14,R18,R22,R24,R28,R32,R36,R40
22					
23					
24		13-13837-00	RES. NETWORK (8-110Ω 5%)	4	R50,R51,R52,R53
25		13-00229-00	RES. 100 ¼W 5% CC	2	R4,R45
26		15-13265-00	TRANSISTOR Q3725 QUAD	2	E71,E72
27					
28		16-10662-00	INDUCTOR, 100 UH, 10%	2	L1,L2
29					
30		19-10010-00	DIODE ARRAY DEC 2501-00	48	E6,E53,E54,E56,E57,E58,E59,E60,E12,E13, E14 thru E19,E9,E10,E33,E34,E22,E3,E23, E49,E64,E50,E69,E38,E70,E39,E8,E29,E7, E30,E25,E26,E65,E45,E66,E46,E67,E42,E68, E5,E43,E4,E63,E55
31					
32					
33					
34					
35		19-11748-00	I.C. DEC 7520	18	E51,E47,E41,E37,E35,E32,E36,E24,E61,E52, E48,E44,E31,E28,E27,E29,E21,E40
36	—				
37		19-12068-00	I.C. [illegible] 74128	2	E2,E62

E.C.O. NO.

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TITLE 32K SPC MEMORY
32K SPC 18 BIT SCRCK M228B

ASSY NO. D-UA-5412149-0-0
SHEET 2 OF 3

SIZE B | CODE PL | NUMBER 5412149-0-0 | REV. 0
INSERTION PARTS LIST DATA BASE REV

EN-01140A-16-R2/6132 DRB-125

DIGITAL EQUIPMENT CORPORATION

PARTS LIST

MADE BY	Dave Caruso	CHECKED S. Bauman	SECTION 1
DATE	11/18/76	DATE 21 FEB 77	
ENG	W. Coates	PROD R.A. Hill	ISSUED SECTION 1
DATE	29 APR 77	DATE 29 Apr 77	

NOTES:
USED ON OPTION/MODEL H228 B

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY/VARIATION	REF DESIGNATION
38	D-AD-70-10918-0-0	70 10918-0-0	DIODE PACK COMMON CATHODE (4-D672)	18	D7 THRU D23, D28
39		90-09185-00	JUMPER, WIRE, INSULATED	3	W1, W2, W3
40		91-07771-00	DIODE ASSEMBLY SPACER	36	
41		91-07784-00	TUBING, SHRINK. (AMP POST SPACER)	11	
42		90-09858-00	STANDOFF, SPECIAL (.426)	3	
43		90-09858-01	STANDOFF, SPECIAL (.376)	2	
44		90-08456-01	TAPE, ADHESIVE FOAM	A/R	

E.C.O. NO.

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EN-01140A-16-R276(325) DRB 125

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.
32K SPC MEMORY	D-UA-5412149-0-0	B	PL	5412149-0-0	D
	SHEET 3 OF 3	INSERTION PARTS LIST DATA BASE REV			

AUTOMATED BY PRTLST.1D(11) P A R T S L I S T SHEET A1 OF A4

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
1	1	D-CS-G657-0-1		CIRCUIT SCHEMATIC	REF	
2	2	B-DD-G657-0		DWG DIRECTORY	REF	
3	3	D-UA-G657-0-0		UNIT ASSEMLBLY	REF	
4	4		5012147-00	G657	1	
5	5		1005820-00	22.0 MMF 100V 5%200PPM MICA	1	C26
6	6		1000011-00	47.0 MMF 100V 5%200PPM MICA	1	C8
7	7		1000015-00	82.0 MMF 100V 5%200PPM MICA	3	C1-C3
8	8		1000023-00	330.0 MMF 100V 5%200PPM MICA	18	C30,C34,C38,C42,C46,C50,C54,C58,
					CONT	C62,C66,C70,C74,C82,C86,C90,C94,
					CONT	C98,C78
9	9		1011683-00	.022 MFD 50V 10% CER	4	C5,C12,C17,C22
10	10		1010274-00	.22 MFD 50V +80-20% Z5U CER	28	C16,C28,C136,C102-C124,C137,C193
11	11		1010279-00	.47 MFD 25V 20% CER	22	C6,C13,C18,C23,C31,C35,C39,C43,
					CONT	C47,C51,C55,C59,C63,C67,C71,C75,
					CONT	C79,C83,C87,C91,C95,C99
12	12		1012084-01	8 MFD 25V +75-10% AL EL	4	C11,C19,C20,C133
13	13		1012219-00	47 MFD 30V +75-10% AL EL	3	C195-C197
14	14		1000076-00	39 MFD 10V 10% S.TANT	1	C14
15	15		1105648-00	1N 4744 VZ= 15.0 10% 1W	4	D117,D119,D121,D123
16	16		1105275-00	D 672 TR= 15NS PIV= 60V SI	112	D1-D53,D55-D57,D59-D114
17	17		1110994-00	1N 751A VZ= 5.1 5% .40W	2	D124,D125
18	18		1102421-00	1N 753A VZ= 6.2 5% .40W P	1	D115
19	19		1100125-00	1N 758A VZ= 10.0 5% .40W PPE	1	D116
20	20		1212104-00	CONN .100 7POS RT ANGLE	1	J89
21	21		1211728-00	CONN,PTS 01SKT	78	J1-J4,J12-J85
22	22		1205747-00	FUSE, SUB-MINI, 5.000A, 125V, A	1	F1
23	23		1211164-01	SW,DIP 5POS/1PST 5VDC100MA F	1	S1
24	24		1210929-03	FUSE, SUB-MINI .750A, 125V, A	19	F2-F20
25	25		1305114-00	3.48 K .25 W 1.0 % RN55D-F10	1	R63
26	26		1302091-00	330.0 K .25 W 5.0 % CC	1	R154

ENG	ECO NUMBER	REV
E.R	00001	C
WC	G657-ML002	D
W.C	G657-ML003	E

REVISION HISTORY

BASIC PART NO: 0G657

SECTION A OF A

SECTION.VARIATION INDEX
[A] 00
[B]
[C]
[D]
[E]
[F]
[H]
[J]
[K]
[L]
[M]
[N]

DRN: D CARUSO DATE: 09-MAR-78

CHK'D: R MANION DATE: 09-MAR-78

DES.ENG: W COATES DATE: 09-MAR-78

RESP.ENG.: W COATES DATE: 09-MAR-78

MFG.ENG.: R HILL DATE: 09-MAR-78

ASSEMBLY NUMBER: D-UA-G657-0-0

TOP DOCUMENT NUMBER: B-DD-G657-0

DIGITAL

TITLE PARTS LIST

32K SPC ELECTRONICS

DOCUMENT NUMBER

SIZE	CODE	NUMBER	REV
K	PL	G657-0-DBP	E

FILE NAME: Z1471E.PLS

EDIT # 10

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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
27	27		1312466-06	75.0 1.0 W 1.0 % WW	1	R155
28	28		1312466-04	.50 1.0 W 1.0 % WW	1	R29
29	29		1301317-00	10.0 .25 W 5.0 % CC	1	R37
30	30		1312466-00	10.0 1.0 W 1.0 % WW	4	R21,R32,R43,R51
31	31		1301425-00	300.0 .25 W 5.0 % CC	18	R74,R78,R82,R86,R90,R94,R98,
						CONT R102,R106,R110,R114,R118,R122,
						CONT R126,R130,R134,R139,R144
32	32		1301969-00	22.0 .25 W 5.0 % CC	59	R13,R30,R40,R48,R73,R75-R77,
						CONT R79-R81,R83-R85,R87-R89,R91-R93,
						CONT R95-R97,R99-R101,R103-R105,
						CONT R107-R109,R111-R113,R115-R117,
						CONT R119-R121,R123-R125,R127-R129,
						CONT R131-R133,R135,R136,R138,R140,
						CONT R141,R143,R145,R153,R44
33	33		1302602-00	56.0 .25 W 5.0 % CC	3	R1,R5,R20
34	34		1300229-00	100.0 .25 W 5.0 % CC	4	R4,R8,R9,R11
35	35		1304956-00	4.64 K .25 W 1.0 % RN55D-F10	1	R150
36	36		1300250-00	150.0 .25 W 5.0 % CC	2	R41,R52
37	37		1305124-00	287.0 .25 W 1.0 % RN55D-F10	1	R19
38	38		1300274-00	220.0 .50 W 5.0 % CC	2	R146,R148
39	39		1312123-00	220.0 3.0 W 1.0 % WW	2	R56,R151
40	40		1301972-00	270.0 .25 W 5.0 % CC	2	R12,R10
41	41		1303067-00	422.0 .25 W 1.0 % RN55D-F10	1	R18
42	42		1300365-00	1.0 K .25 W 5.0 % CC	8	R3,R7,R35,R38,R72,R137,R142,R152
43	43		1303045-00	3.16 K .25 W 1.0 % RN55D-F10	2	R53,R14
44	44		1304855-00	9.09 K .25 W 1.0 % RN55D-F10	1	R57
45	45		1300447-00	4.70 K .25 W 5.0 % CC	1	R36
46	46		1305324-00	4.99 K .25 W 1.0 % RN55D-F10	1	R54
47	47		1303312-00	10.0 K .25 W 1.0 % RN55D-F10	2	R17,R26
48	48		1300479-00	10.0 K .25 W 5.0 % CC	8	R55,R59,R60,R64-R68
49	49		1302941-00	14.70 K .25 W 1.0 % RN55D-F10	2	R69,R70
50	50		1309419-00	19.60 K .25 W 1.0 % RN55D-F10	1	R58
51	51		1303156-00	34.80 K .25 W 1.0 % RN55D-F10	1	R61
52	52		1305252-00	68.10 K .25 W 1.0 % RN55D-F10	2	R25,R62
53	53		1303219-00	82.0 K .25 W 5.0 % CC	1	R71
54	54		1305255-00	121.0 K .25 W 1.0 % RN55D-F10	1	R23
55	55		1309595-00	1.0 M .25 W 5.0 % CC	2	R27,R28
56	56		1304843-00	243.0 K .25 W 1.0 % RN55D-F10	1	R22
57	57		1309785-00	300.0 2.0 % NTC THERM	1	R15
58	58		1300202-00	47.0 .25 W 5.0 % CC	2	R2,R6
59	59		1503409-01	DEC6534B PNP 310MW SI 40 90 P	1	Q8
60	60		1509605-00	DEC4920 PNP 30WC SI	1	Q9
61	61		1505321-00	DEC4258 PNP 200MW SI 12 30 M	1	Q10
62	62		1510959-00	2N 3725 NPN 3.5WC SI 50 60 P	4	Q4-Q7
63	63		1513265-00	3725 QUAD CORE DRIVER	9	E32,E50,E71,E76,E93,E97,E54,
						CONT E114,E118
64	64		1503100-00	DEC3009B NPN 200MW SI 20 25	3	Q1-Q3
65	65		1610962-00	XFMR,SATURATING(Y,7)	2	E39,E103

D	I	G	I	T	A	L	TITLE	SECTION	SIZE	CODE	DOCUMENT NUMBER	REV
							32K SPC ELECTRONICS	A OF A	K	PL	G657-0-DBP	E

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
66	66		1609996-00	PULSE XFMR BH001-0107 DEC5 22	10	E31,E49,E53,E70,E72,E75,E92,E96,
						CONT E113,E117
67	67		1611243-00	DELAY=25-250NS,10TAPS RCL#L-183	3	E5,E11,E18
68	68		1610662-00	100.0 UH 10% 165MA #DD1 00	3	L7-L9
69	69		1610963-00	400 UH 900MA,.30HMS	6	L1-L6
70	70		1613820-00	XFMR,SATURATING(INHIBIT)	9	E38,E43,E61,E66,E81,E86,E102,
						CONT E108,E126
71	71		1910878-00	7427 NOR GATE-TRIPLE 3IN	1	E25
72	72		1905578-00	7430 NAND GATE-SINGLE 8IN	2	E21,E22
73	73		1910541-00	74S40 BUFFER,POS-NAND,DUAL	1	E112
74	74		1910046-00	7442 DECODER-1 OF 10,BCD	7	E6,E44,E55,E87,E98,E109,E127
75	75		1909050-00	7475 LATCH 4BIT	5	E2,E8,E58,E63,E123
76	76		1910230-00	74121 ONE SHOT/	1	E78
77	77		1912068-00	74128 DRIVER,LINE,QUAD,50	13	E3,E4,E9,E37,E42,E60,E65,E80,
						CONT E82,E85,E101,E107,E125
78	78		1909932-01	7483A ADDER-4BIT W/LOOK AH	1	E15
79	79		1909058-00	74H21 AND GATE-DUAL 4INPUT	2	E84,E91
80	80		1909060-00	DEC 74H50 A-O-I XPNDBLE GATE-D	1	E24
81	81		1910532-00	74S00 NAND GATE-QUAD 2IN	5	E17,E23,E28,E100,E122
82	82		1912389-00	74S08 AND GATE-QUAD 2IN,PO	1	E16
83	83		1910534-00	74S04 INVERTER GATE-HEX 1I	3	E10,E14,E29
84	84		1910544-00	74S74 FF-D DUAL,EDGE TRIGG	10	E27,E30,E41,E52,E67,E74,E89,E95,
						CONT E106,E116
85	85		1911469-00	DEC 8640 RECEIVER,BUS,QUAD,U	5	E36,E46,E48,E69,E111
86	86		1911579-01	8641-1 TRANSCEIVER,BUS,QUA	7	E1,E7,E13,E20,E34,E57,E62
87	87		1910298-00	741 OP AMP GEN PURP. COM	1	E119
88	88		1910960-00	DEC 75325 DRIVER,CORE MEMORY,	28	E12,E19,E26,E33,E35,E40,E45,E47,
						CONT E51,E56,E59,E64,E68,E73,E77,E79,
						CONT E83,E88,E90,E94,E99,E104,E105,
						CONT E110,E115,E120,E121,E124
89	89		7010918-05	DIODE PKG COMMON CATHODIE	36	D126,D127-D161
90	90		7415338-00	LEFT HANDLE ASSY	1	
91	91		7415337-00	RIGHT HANDLE ASSY	1	
92	92		1214237-00	BAR,STIFFENER W/10 INSERTS	1	
93	93		1213567-00	HANDLE,MODULE(SEGMENT)	2	
94	94		9006557-00	NUT,KEP 4-40X 1/4 AF	1	
95	95		9006010-01	SCREW,MACH PAN PHIL 4-	1	
96	96		9000008-01	SCREW,NYLN PAN SLOT 2-	9	
97	97		9006735-00	EYELET,FUNNEL 0.059ODX0.187	77	
98	98		9000024-01	EYELET,ROLLED 0.121ODX0.192	10	
99	99		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	17	W1-W17
100	100		9007201-00	TRANSIPADS #10253	4	
101	101		9107771-00	TUBING,TEFLON .040ID	72	
102	102		1305129-00	5.62 K .25 W 1.0 % RN55D-F10	1	R33
103	103		1300249-00	150.0 .50 W 5.0 % CC	2	R147,R149
104	104		1300247-00	120.0 .25 W 5.0 % CC	1	R39
105	105		1303178-00	620.0 .25 W 5.0 % CC	1	R46
106	106		1110836-00	1N 759A VZ= 12.0 5% .40W	1	D120

DIGITAL	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
	32K SPC ELECTRONICS		K	PL	G657-0-DBP	E

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
107	107	SEE NOTE	1001610-00	.01 MFD 50V +80-20% Z5U CER	110	C4,C7,C9,C10,C15,C21,C24,C25,
						CONT C27,C29,C32,C33,C36,C37,C40,C41,
						CONT C44,C45,C48,C49,C56,C57,C60,C61,
						CONT C64,C65,C68,C69,C72,C73,C76,C77,
						CONT C80,C81,C84,C85,C88,C89,C92,C93,
						CONT C96,C97,C100,C52,C53,C126,C128,
						CONT C130-C132,C134,C135,C138-C166,
						CONT C168-C192,C194,C210,C127,C129
108	108		9105740-55	*** THIS ITEM IS NOT USED ***	-	
109	109	D-MD-5012147-0-0		DRILL & ETCH DRAWING	REF	
110	110	D-EC-5012147-0-0		ETCH CUT DRAWING	REF	

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

DIGITAL	TITLE	SIZE	CODE	DOCUMENT NUMBER	REV
	32K SPC ELECTRONICS SECTION A OF A	K	PL	G657-0-DBP	E

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COMPONENT SIDE VIEW

REF 98

NOTES: THE FOLLOWING COMPONENTS ARE NOT USED : R45, R47, R16, R31, R24, R34, R42, R49, R50, R54, D118, D58, D122, C101 & C125.

STEP & REPEAT	↑ Y AXIS — STEP = TIMES
	→ X AXIS — STEP = TIMES

CHK	CHANGE NO	REV
	RELEASED 6657 ML3	D

88 REF. PIN 1 TYP. 101

TYPICAL DIODE PACK WITH SPACERS
76 PLACES

ETCH REV.

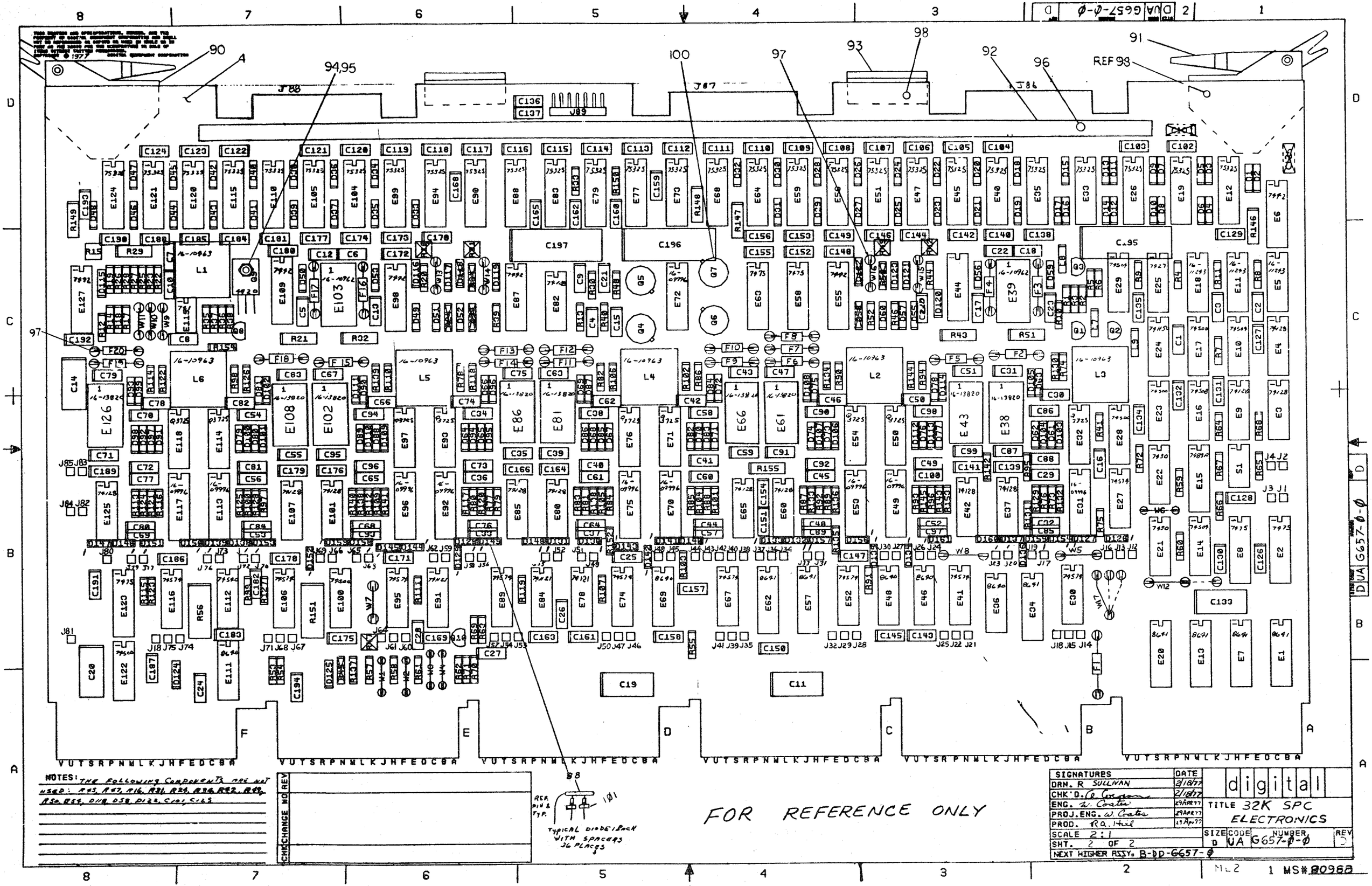
SIGNATURES	DATE
DRN.	
CHK'D.	2/9/77
MECH.ENG.	
PROJ.ENG.	
PROD.	

digital

TITLE 32K SPC ELECTRONICS

SCALE 2:1	SIZE	CODE	NUMBER	REV
SHT. 1 OF	D	USA	G657-0-0	
NEXT HIGHER ASSY.				

WO#



NOTES! THE FOLLOWING COMPONENTS ARE NOT USED: R45, R47, R16, R21, R24, R34, R42, R49, R50, R54, D118, D58, D122, C101, C163

CHK	CHANGE NO	REV

SIGNATURES	DATE
DRN. R SULLIVAN	2/18/77
CHK'D. [illegible]	2/18/77
ENG. W. Coates	29APR77
PROJ.ENG. W. Coates	29APR77
PROD. R.A. Hill	29 Apr 77
SCALE 2:1	
SHT. 2 OF 2	
NEXT HIGHER ASSY. B-DD-G657-0	

digital

TITLE 32K SPC ELECTRONICS

SIZE	CODE	NUMBER	REV
D	UA	G657-0-0	D

MS# 80988

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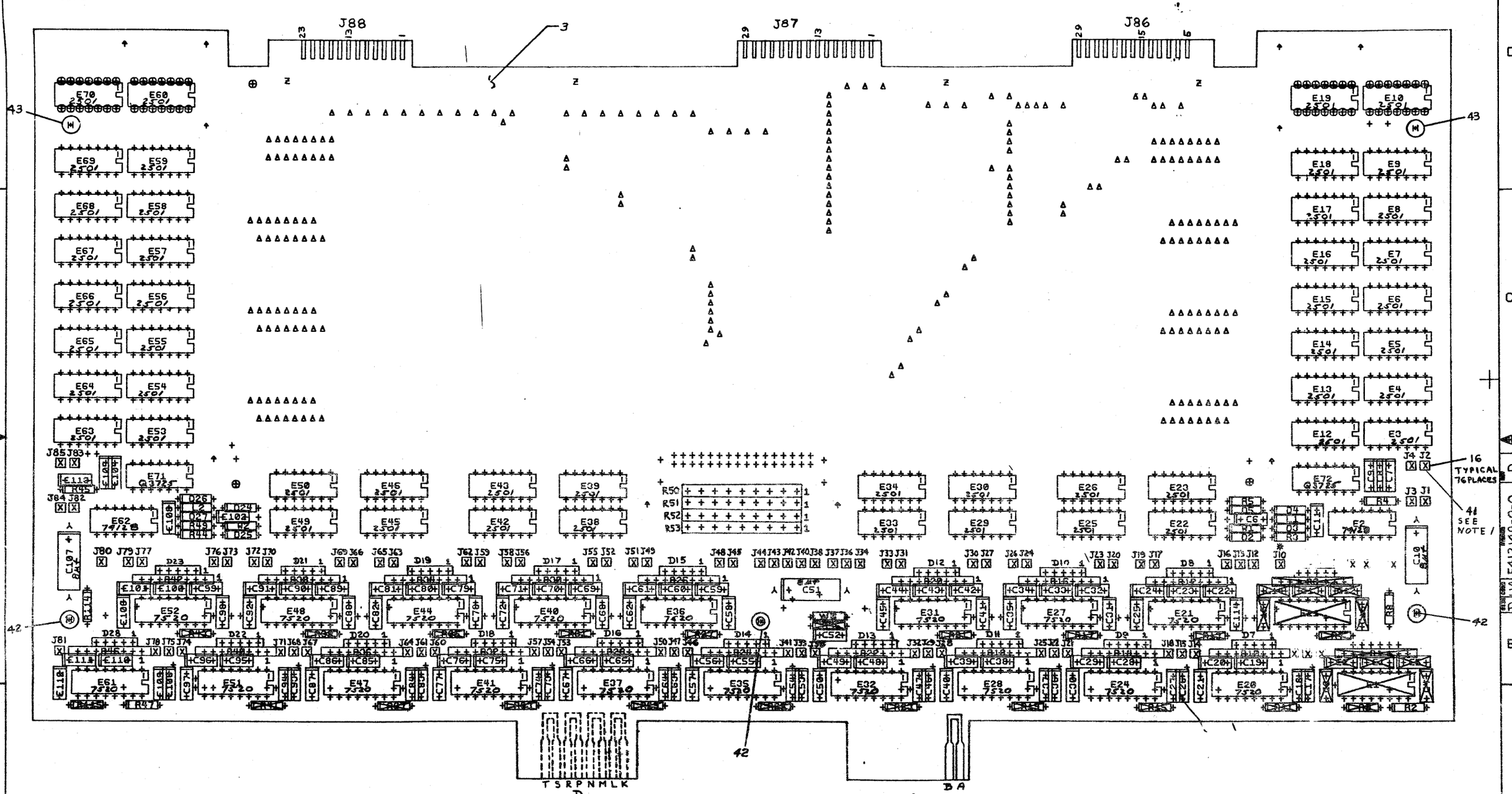
COMPONENT SIDE VIEW



NOTES:
1. PINS THAT HAVE AMP POST SPACERS ARE (11 PLACES) J2, 14, 21, 28, 35, 50, 57, 64, 71, 78, 85. AMP POST SPACERS MUST BE PUT ON BEFORE ELECTRONIC COMPONENTS ARE INSTALLED.

CHK	CHANGE NO	REV
	5412149-ML1	D

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

SIGNATURES	DATE
DRN. K. Rappaport	11-8-76
CHK'D. K. Rappaport	12-10-76
ENG. W. Coates	29 APR 77
PROJ. ENG. W. Coates	29 APR 77
PROD. R. Allen	29 APR 77
SCALE 2/1	
SHT. 1 OF 4	
NEXT HIGHER ASSY. 3-DD-5412149-0	

digital

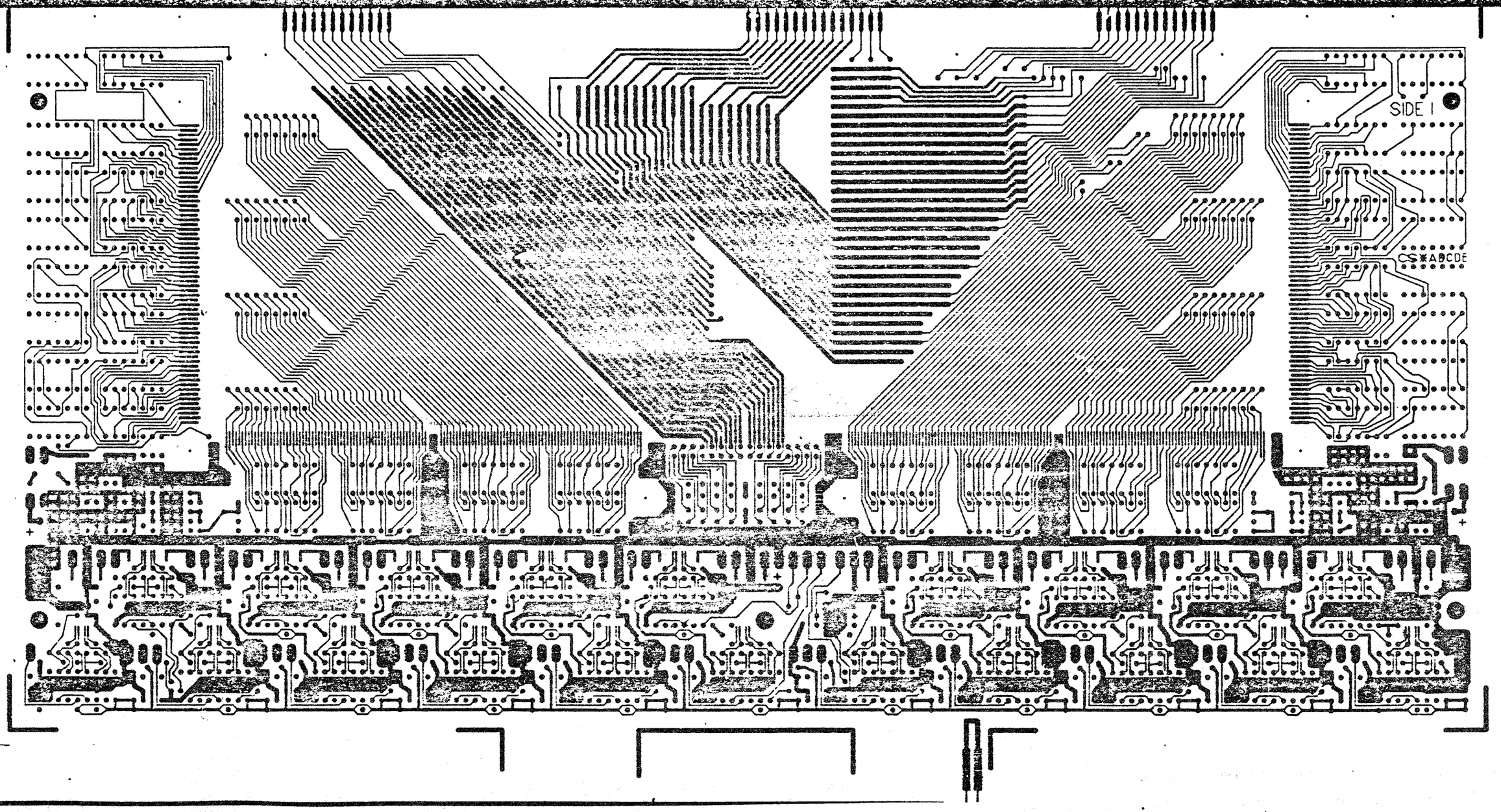
TITLE 32 K SPC MEMORY

SIZE	CODE	NUMBER	REV
D	UA	5412149-0-0	D

MS# 80989

©1977

5412149 5012148D



TITLE	32K SPC MEMORY	SIZE	CODE	NUMBER	REV
		D	UA	5412149-0-0	D
SCALE 2/1	SHEET 2 OF 4	DIST			

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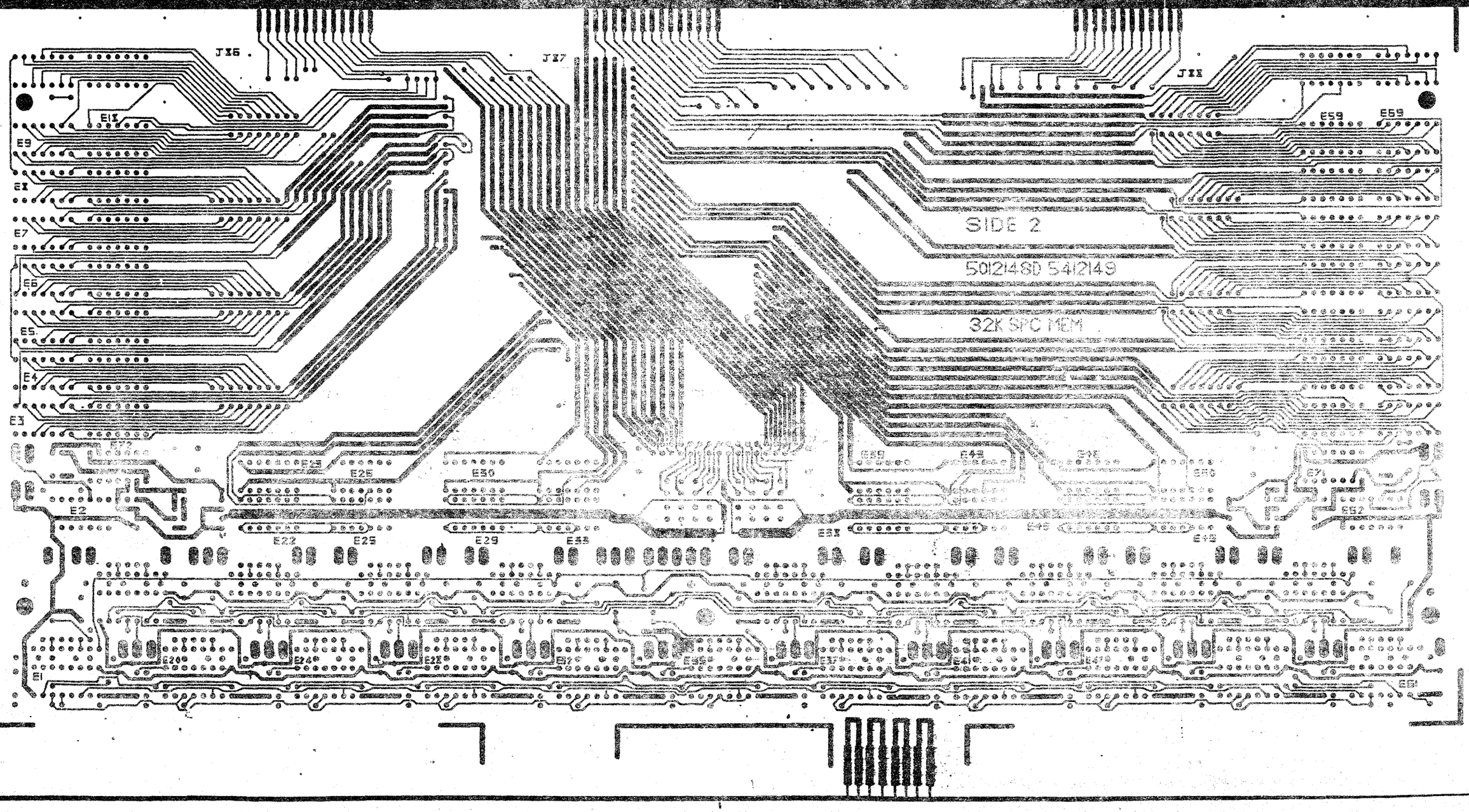

TITLE: 32K SPC MEMORY			SIZE: D	CODE: UA	NUMBER: 5412149-0-0	REV: D
SCALE: 2/1	SHEET 3 OF 4		DIST			

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J88 J87 J86

E70 E60 E19 E10
E69 E59 E18 E9
E68 E58 E17 E8
E67 E57 E16 E7
E66 E56 E15 E6
E65 E55 E14 E5
E64 E54 E13 E4
E63 E53 E12 E3
E71 Q3725 E72 Q3725
E62 7912B E2 7912B
E50 E46 E43 E39
E49 E45 E42 E38
E34 E30 E26 E23
E33 E29 E25 E22
E52 7520 E48 7520 E44 7520 E40 7520 E36 7520 E31 7520 E27 7520 E21 7520
E61 7520 E51 7520 E47 7520 E41 7520 E37 7520 E35 7520 E32 7520 E28 7520 E24 7520 E20 7520

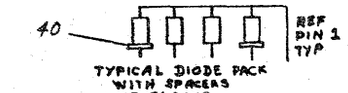
R50 RES NETWORK 110Ω 1/4W 1
R51 RES NETWORK 110Ω 1/4W 1
R52 RES NETWORK 110Ω 1/4W 1
R53 RES NETWORK 110Ω 1/4W 1

41 SEE NOTE 1

NOTES:
1. PINS THAT HAVE AMP POST SPACERS ARE (11 PLACES) J2, 14, 21, 28, 35, 50, 57, 64, 71, 78, 85. AMP POST SPACERS MUST BE PUT ON BEFORE ELECTRONIC COMPONENTS ARE INSTALLED.

CHK	CHANGE NO	REV

THIS DRAWING FOR REFERENCE ONLY



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

SIGNATURES	DATE
DRN. K. Hampel	12-8-76
CHK D.K. Hampel	12-9-76
ENG. W. Carter	29 APR 77
PROJ.ENG. W. Carter	29 APR 77
PROD. R.A. Hill	2 APR 77

digital

TITLE 32K SPC MEMORY

SCALE 2/1 | SIZE D | CODE UA | NUMBER 5412149-0-0 | REV D

SHT. 4 OF 4

NEXT HIGHER ASSY. B-DD-5412149-0

MS# 809892

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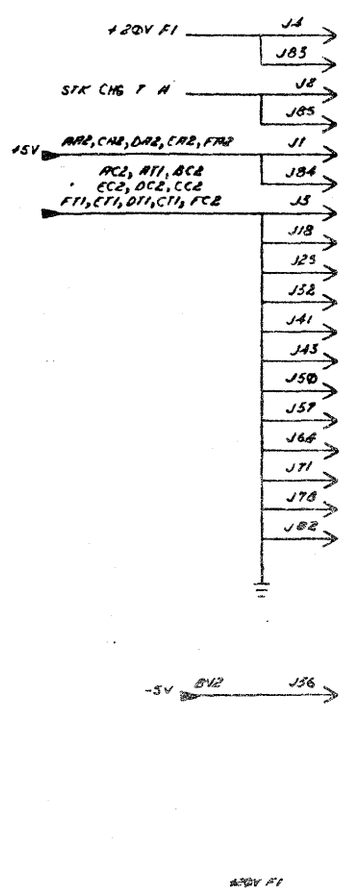
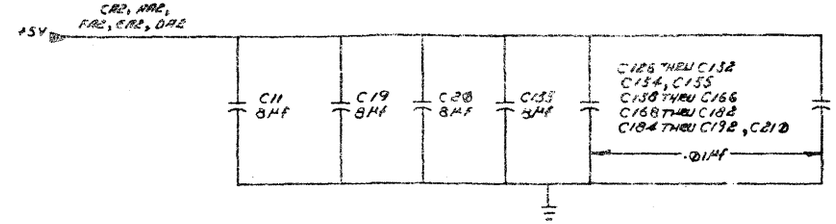
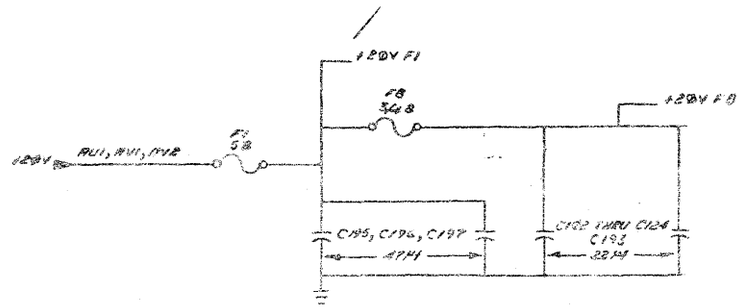
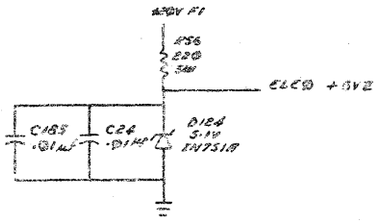
BANK SELECTION

	NON INTERLEAVED	INTERLEAVED	A17	A16	A15	A14	A13
SW	ERR1	ERR1	S1-1	S1-2	S1-3	S1-4	S1-5
0	32K	64K	ON	ON	ON	ON	ON
4K	36K	68K	ON	ON	ON	ON	OFF
8K	40K	72K	ON	ON	ON	OFF	ON
12K	44K	76K	ON	ON	ON	OFF	OFF
16K	48K	80K	ON	ON	OFF	ON	ON
20K	52K	84K	ON	ON	OFF	ON	OFF
24K	56K	88K	ON	ON	OFF	OFF	ON
28K	60K	92K	ON	ON	OFF	OFF	OFF
32K	64K	96K	ON	OFF	ON	ON	ON
36K	68K	100K	ON	OFF	ON	ON	OFF
40K	72K	104K	ON	OFF	ON	OFF	ON
44K	76K	108K	ON	OFF	ON	OFF	OFF
48K	80K	112K	ON	OFF	OFF	ON	ON
52K	84K	116K	ON	OFF	OFF	ON	OFF
56K	88K	120K	ON	OFF	OFF	OFF	ON
60K	92K	124K	ON	OFF	OFF	OFF	OFF
64K	96K	124K	OFF	ON	ON	ON	ON
68K	100K	124K	OFF	ON	ON	ON	OFF
72K	104K	124K	OFF	ON	ON	OFF	ON
76K	108K	124K	OFF	ON	ON	OFF	OFF
80K	112K	124K	OFF	ON	OFF	ON	ON
84K	116K	124K	OFF	ON	OFF	ON	OFF
88K	120K	124K	OFF	ON	OFF	OFF	ON
92K	124K	124K	OFF	ON	OFF	OFF	OFF
96K	124K	124K	OFF	OFF	ON	ON	ON
100K	124K	124K	OFF	OFF	ON	ON	OFF
104K	124K	124K	OFF	OFF	ON	OFF	ON
108K	124K	124K	OFF	OFF	ON	OFF	OFF
112K	124K	124K	OFF	OFF	OFF	ON	ON
116K	120K	124K	OFF	OFF	OFF	ON	OFF
120K	124K	124K	OFF	OFF	OFF	OFF	ON







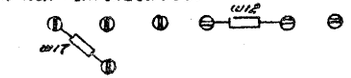


TS325	8	9	16
8640	1	8	
8641	8	16	
7483A	12	5	
7475	12	5	
7442	8	16	
IC TYPE	GND	+5V	+20

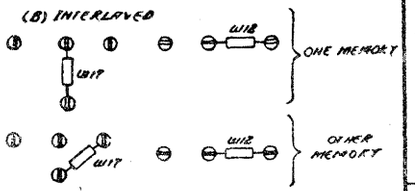
NOTES:

1. INTERLEAVE CONTROL IS ACHIEVED AS FOLLOWS:

(A) NON-INTERLEAVED.



(B) INTERLEAVED



(C) THE BANK SELECTION SWITCH MUST BE SET THE SAME ON BOTH MEMORIES.

2. UNDER NORMAL CONDITIONS (WS, LIN, OUT) THE MEMORY WILL NOT RESPOND TO ADDRESS BETWEEN 124K AND 128K, BECAUSE THESE ADDRESS ARE RESERVED FOR PERIPHERAL DEVICES ON THE UNIBUS. FOR SPECIAL APPLICATIONS WHERE THE RANGE OF PERIPHERAL ADDRESS IS MORE RESTRICTED THAN THIS 4K RANGE THE MEMORY CAN BE CONFIGURED TO INCLUDE THE ADDITIONAL UNIBUS ADDRESSES AS FOLLOWS.

W5 IN, W6 OUT	124K TO 128K
W5 IN, W6 IN	124K TO 127K

NOTE THAT FOR SYSTEMS WITHOUT MEMORY MANAGEMENT, UNITS PROGRAMS SHOULD NOT USE VIRTUAL ADDRESS SPACE FOR MEMORY CAN BE EXTENDED FROM 28K TO 32K OR 31K BY SACRIFICING SOME PERIPHERAL SPACE.

CAUTION: SOME DIGITAL SOFTWARE MAY NOT BE COMPATIBLE WITH THE REDUCED PERIPHERAL ADDRESS SPACE. TO ASSURE COMPATIBILITY W5 AND W6 MUST BE OUT.

3. SCHEMATIC FOR MOS MEMORY SHOWN ON CS-D-MM11-0-1.

4.

MODE	WRITE@L PROTECT@L	CLOCK@H CLOCK IN	CLEAR@L CLEAR@L	STROBE@L STROBE@H	OUT C@L
DATI BUS C0=H, BUS C1=H	H	L			
DATO BUS C0=H, BUS C1=L	L		H	L	H
DATOB BUS C0=L, BUS C1=L, BUS P0=H (LO BYTE)	L		H	L	H
DATOB BUS C0=L, BUS C1=L, BUS P0=L (UP BYTE)	H	L		H	L

5. W1, W2, W3, W4, W9, W10, W11, MUST BE INSTALLED BEFORE MEMORY TEST.

6. W7 AND W8 CONTROL BITS 16 AND 17. (A) FOR 16 BIT SYSTEM W7 AND W8 OUT. (B) FOR 18 BIT SYSTEM W7 AND W8 IN.

REVISIONS				
	DATE	CHANGE NO.		REV.
UC		G657-00001	W. COATES	C
AM		G657-ML0002	Engld (2) Cabs W. COATES	D
CS		G657-ML0003	W. COATES	E

DRN.		FIRST USED ON MM11-YP
CHK'D		
ENG.		
PROJ. ENG.		
PROD.		
NEXT HIGHER ASSY. B-DD-G657-0		
SCALE NONE		
SHEET 1 OF 18		

TITLE: (ELE0) 32K SPEC ELECTRONICS

SIZE D | CODE CS | NUMBER G657-0-1 | REV. E | DIST.

DRD 102E

ML2

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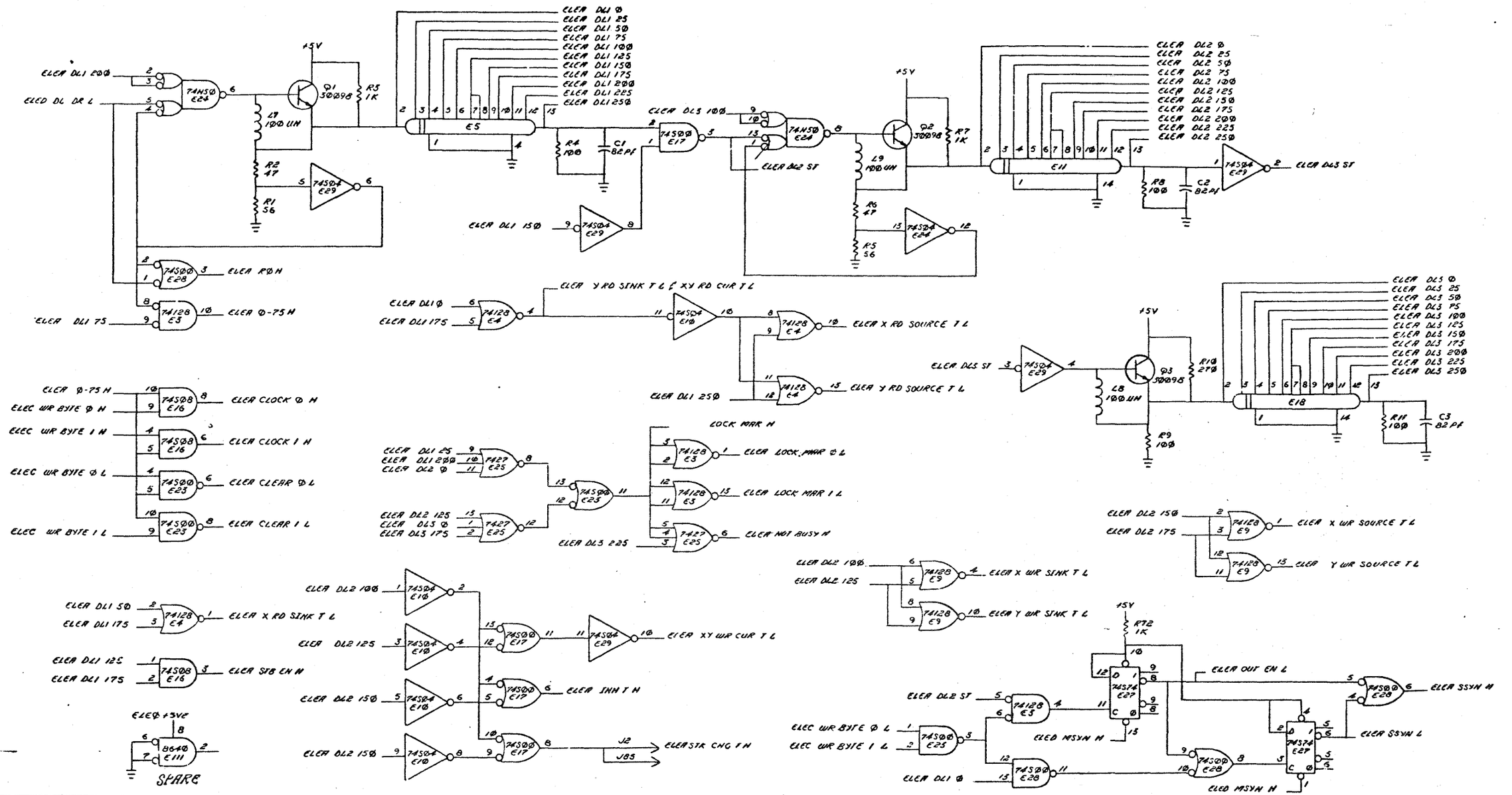
NOTE. ALL DIODES D672
UNLESS OTHERWISE SPECIFIED

BUS GRANT LINES
DR2 - DL2
DN2 - DN2
DP2 - DR2
DS2 - DT2
CM1 - CB1



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
32K SPC ELECTRONICS (ELEA)	D	CS	G657-Ø-1	E
SCALE NONE	SHEET 2 OF 18		DIST.	

DEC FORM NO. DRD 1 88

ML2

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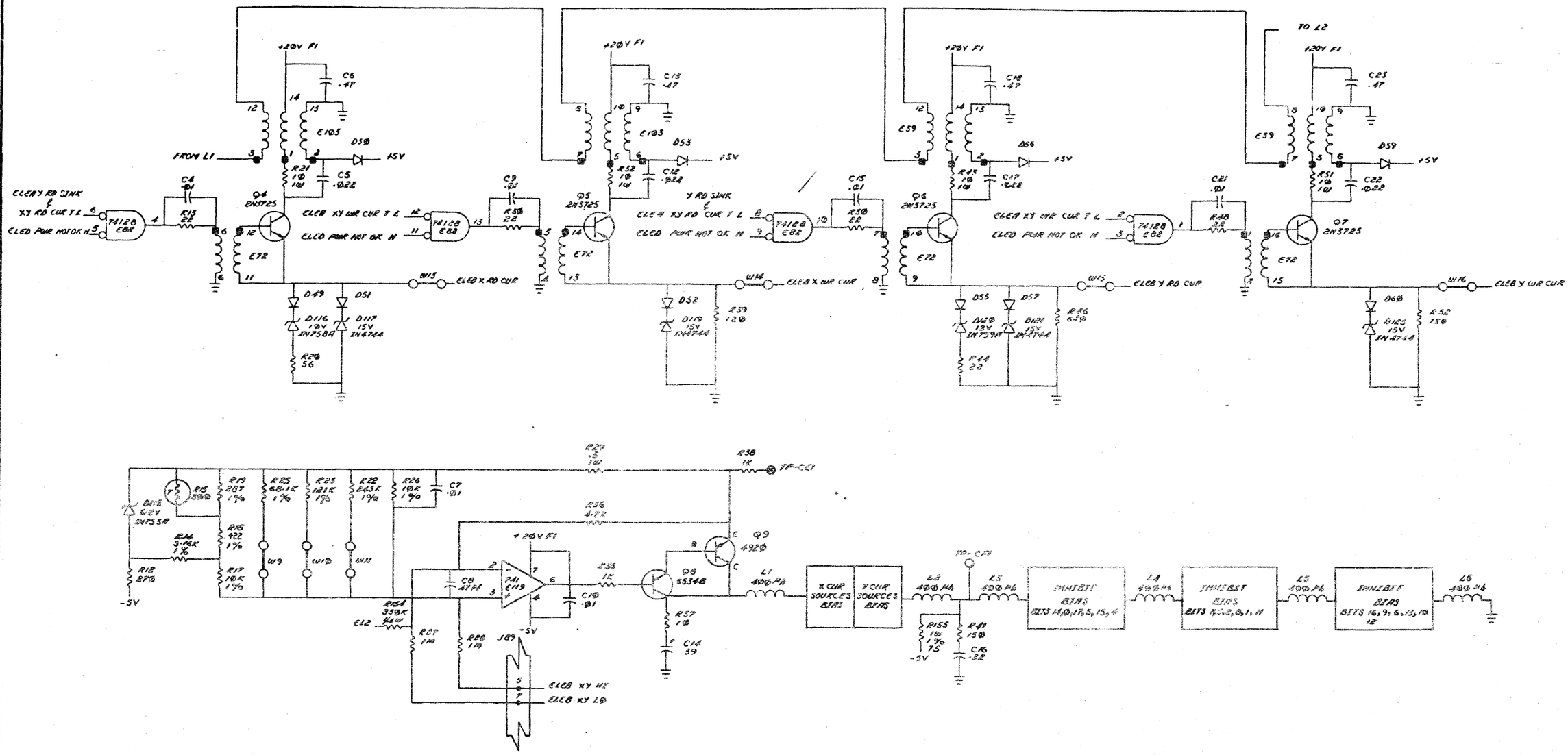

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
32KSPC ELECTRONICS (ELEB)	D	CS	G657-0-1	E
SCALE NONE SHEET 3 OF 18	DIST.			

DEC Form NO. DRD 130

ML2

DCS G657-0-1 REV E

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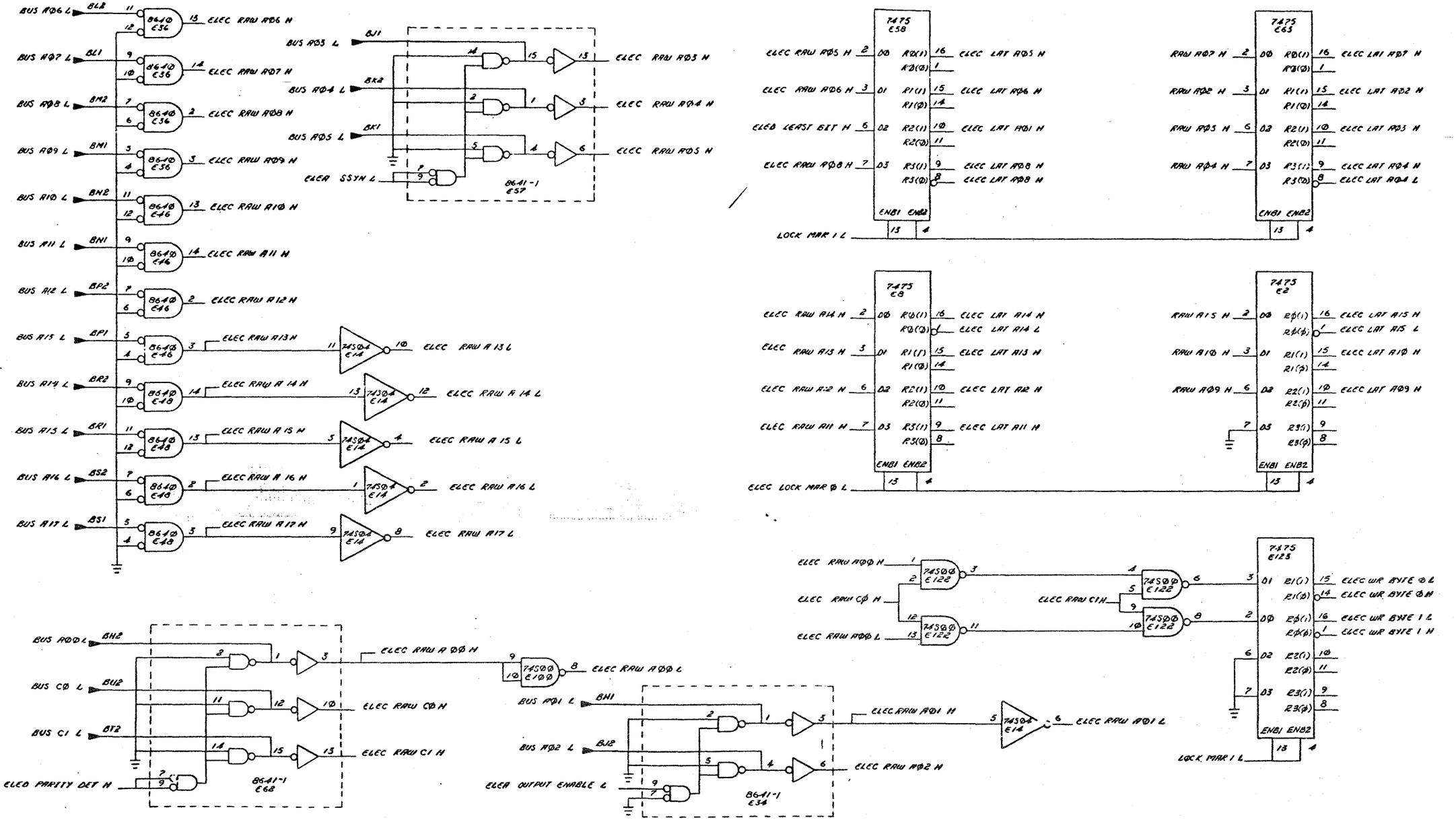

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE	CODE	NUMBER	REV.
32K SPC ELECTRONICS	(ELEC)	D	CS	G657-0-1	E
SCALE NONE	SHEET 4 OF 18	DIST			

DEC FORM NO. DRD 138

ML2

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ELEC RAW A13 H
ELEC RAW A14 H
ELEC RAW A15 H
ELEC RAW A16 H
ELEC RAW A17 H
7430 E21
+5V R60 10K
ELEC RAW A12 H
+5V R59 10K
ELEC RAW A11 H

ELEA MOT BMSY H
ELEA SSYN L
ELED MSYN H
7430 E22
ELED DL DR L

ELEC RAW A14 L
ELEC RAW A15 L
ELEC RAW A16 L
ELEC RAW A17 L
74S83 E15
+5V R68 10K
+5V R67 10K
+5V R66 10K
+5V R65 10K
+5V R64 10K
S1
74S08 E16
RAW A15 L
74S08 E18

RAW A16 H
RAW A01 H
RAW A01 L
W17
INH
W12
NIL
LEAST BIT H

+5V
R55 10K
ELEA SSYN H
PARITY DET. L
BE2
8640 E69
8641-1 E62
BUI
ELED BUS SSYN L
ELED PARITY DET. H
BE1
ELED INT SSYN L
ELEA SSYN L
8641-1 E57

ELED RQ H
ELED LOCK MAR H
8640 E69
BUS DC LO L
BF2
74S00 E100
BUS MSYN L
BV1
8640 E69
ELED MSYN H
ELED +5V2
8640 E111
8640 E111
ELED PWR NOT OK H
+5V R54 4.99K 1%
R55 31.6K 1%
ELED +5V2
8640 E111

ELEC LAT A15 L
ELEA INH T H
ELED +5V2
74S40 E112
ELED LO-INH L
ELED +5V2
74S40 E112
ELED UP INH L
ELEC LAT A15 H

120V FI
R151 220
D125 5.1V IN751A
C194 .01
R57 9.09K 1%
R58 19.6K 1%
R61 34.8K 1%
R62 68.1K 1%
W1
W2
W3
W4
+5V2(REG)
R63 3.48K 1%
R69 14.7K 1%
C27 .01
C29 .01
J89
R71 82K
R70 14.7K 1%
Q16 2N3638
C26 22M
C25 .01
+5V2(REG)
CLR X RD SINK T L
R152 1K
+5V
74121 E78

LAT A15 L
WR BYTE Ø L
WR BYTE 1 L
LAT A15 H
STB EN H
74H21 E91
74H21 E84
74H21 E91
74H21 E84
J37 ELED STB LWL B H
J40 ELED STB LMUB H
J38 ELED STB UWLB H
J42 ELED STB UMUB H

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE	CODE	NUMBER	REV.
32K SPC ELECTRONICS (ELED)		D	CS	G657-0-1	E
SCALE NONE	SHEET 5 OF 18	DIST.			

DEC FORM NO. DRD 138
8 7 6 5 4 3 2 1 ML2

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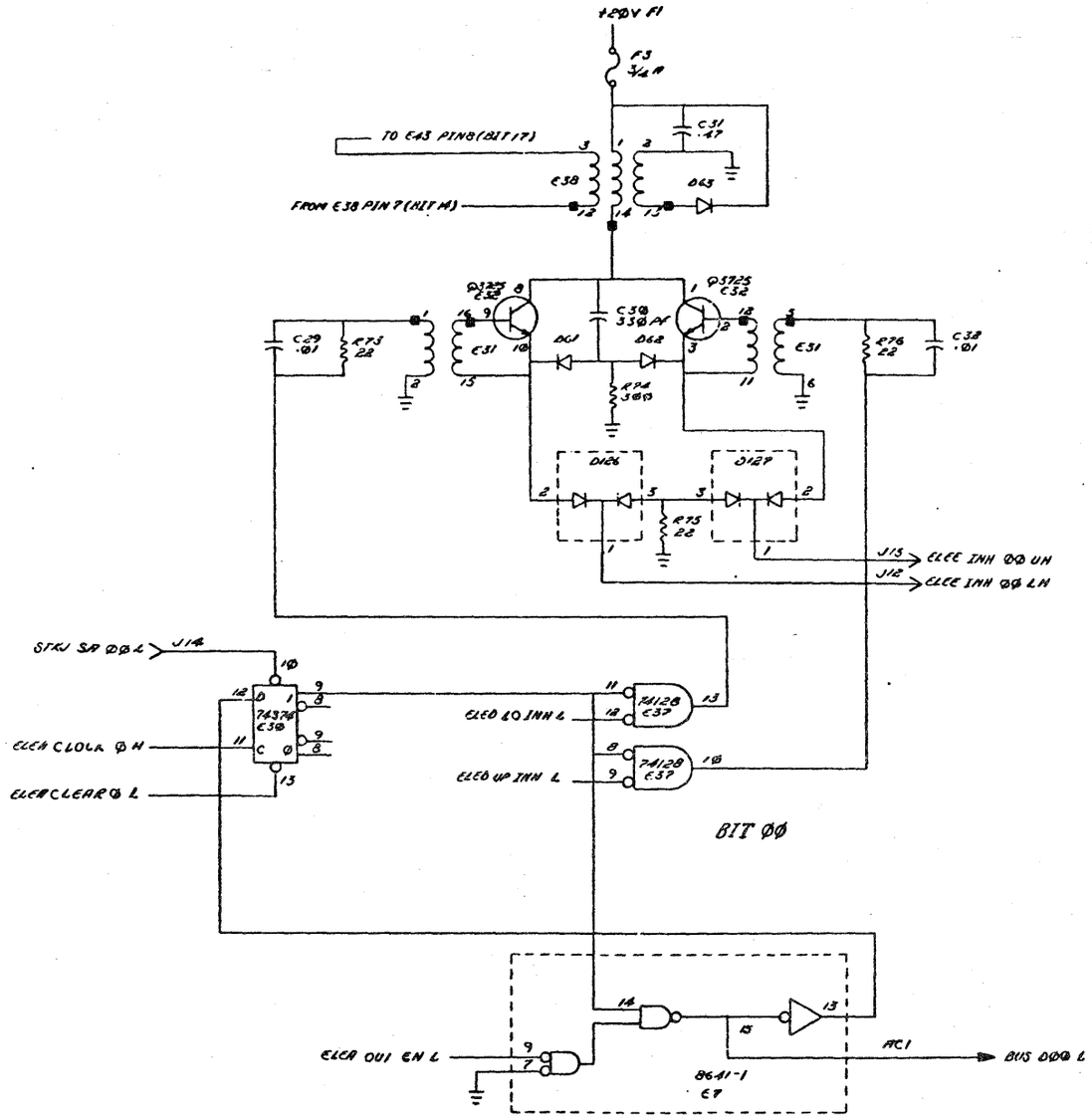

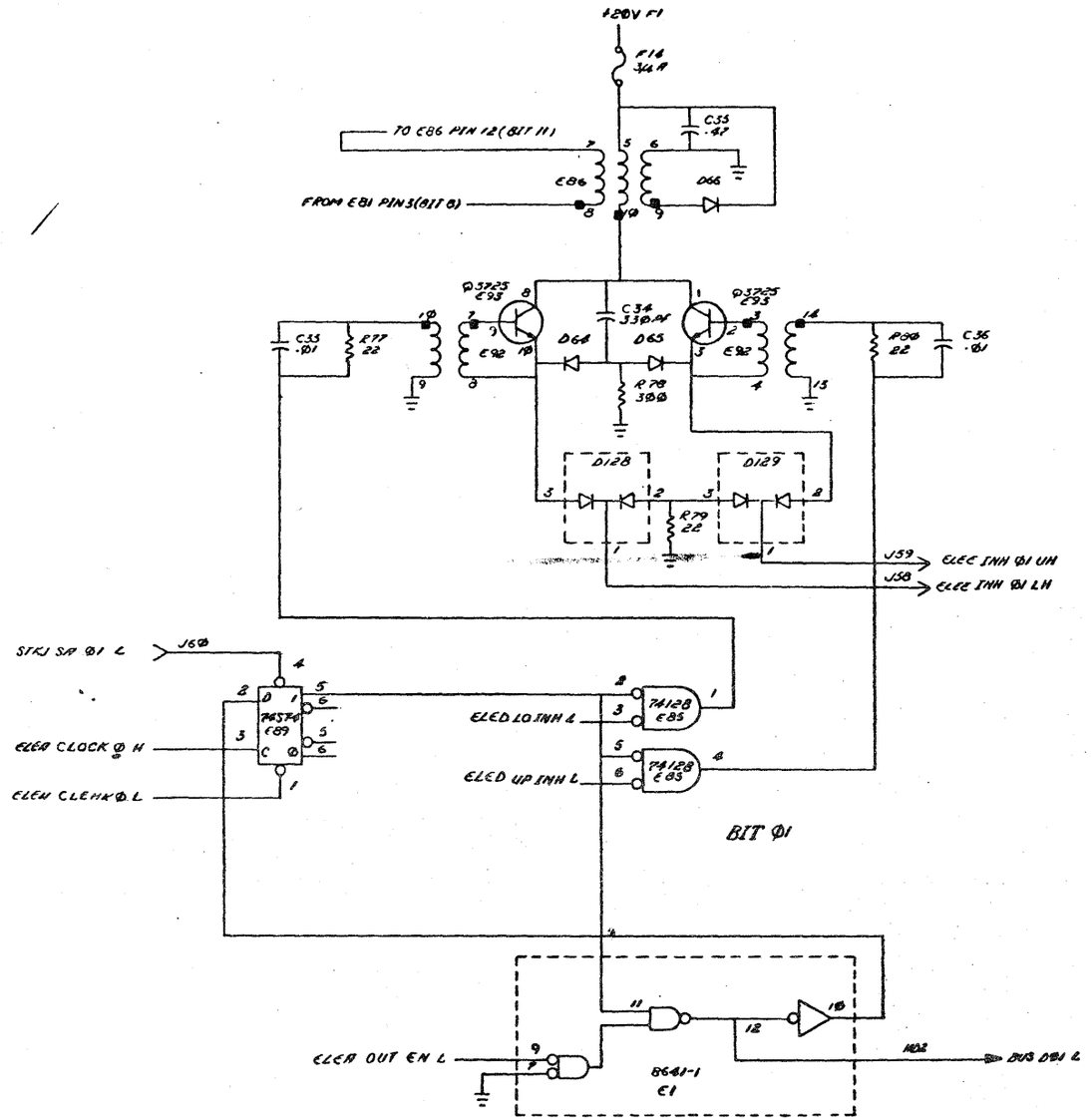

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE	CODE	NUMBER	REV.
32K SPC ELECTRONICS (ELEE)		D	CS	G657-Ø-1	E
SCALE NONE	SHEET 6 OF 18	DIST.			

ML2

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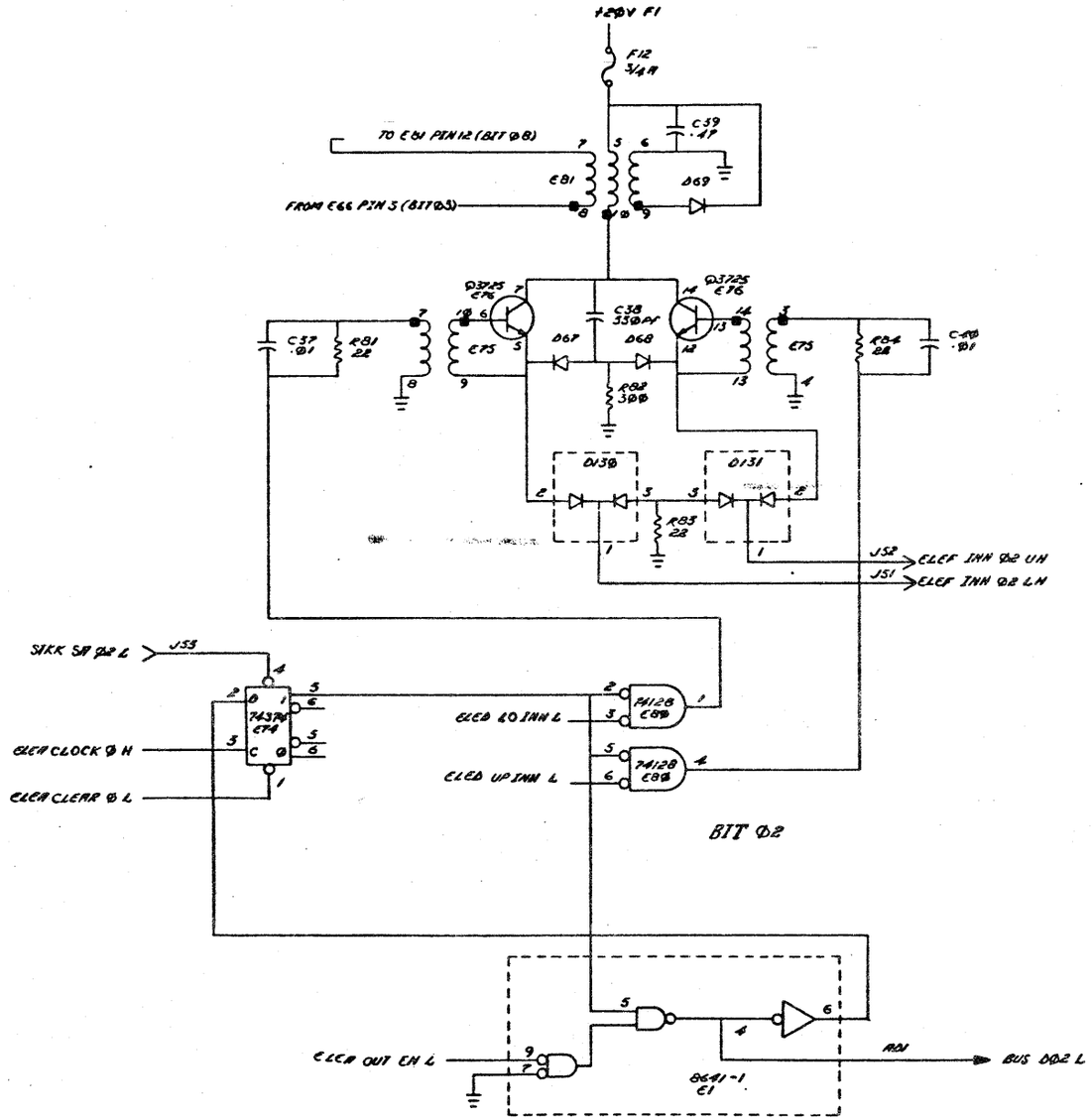

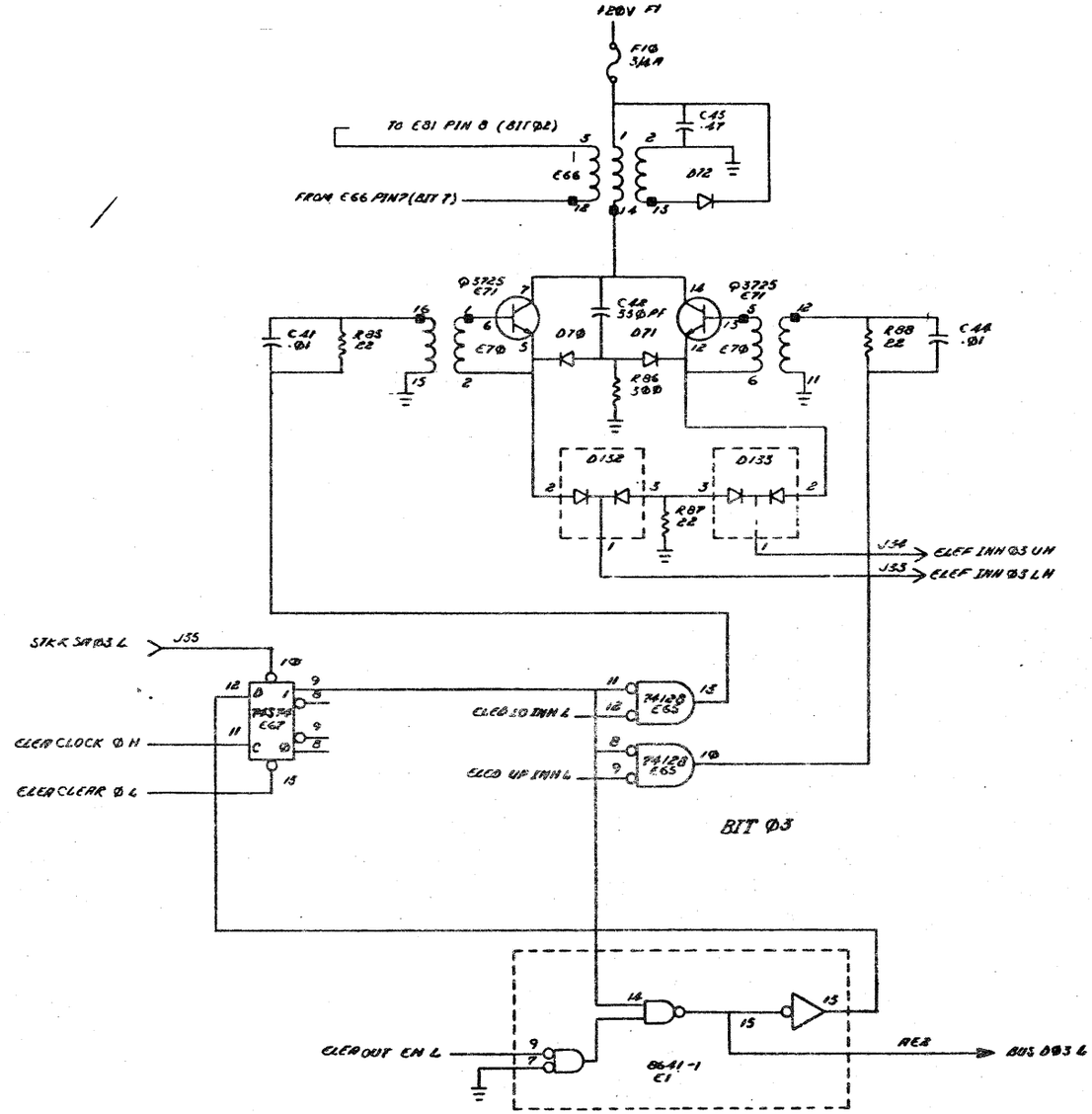

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE: 32K SPC ELECTRONICS (ELEF)		SIZE D	CODE CS	NUMBER G657-Ø-1 REV. E
SCALE NONE	SHEET 7 OF 18	DIST.		

ML2

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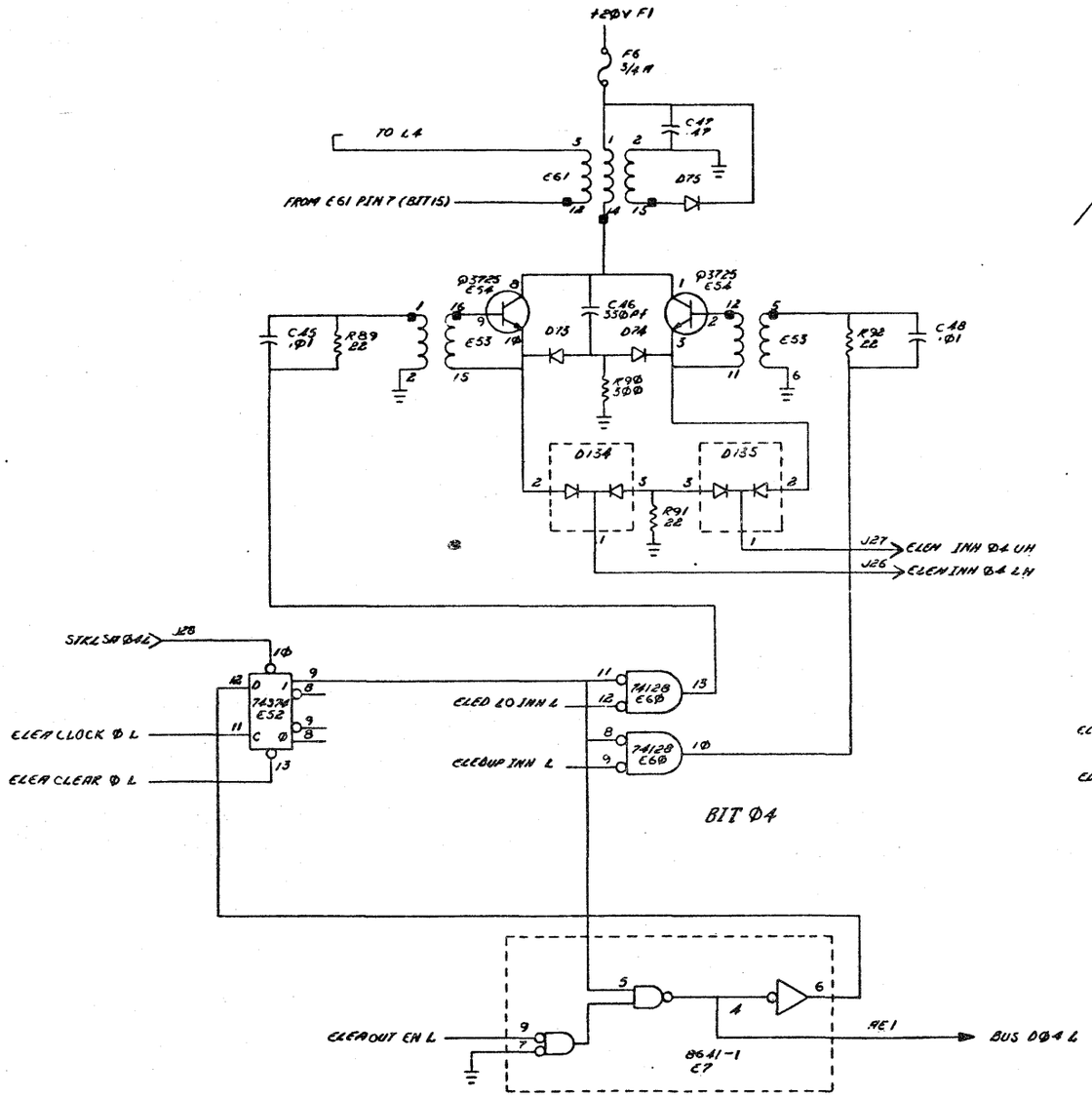

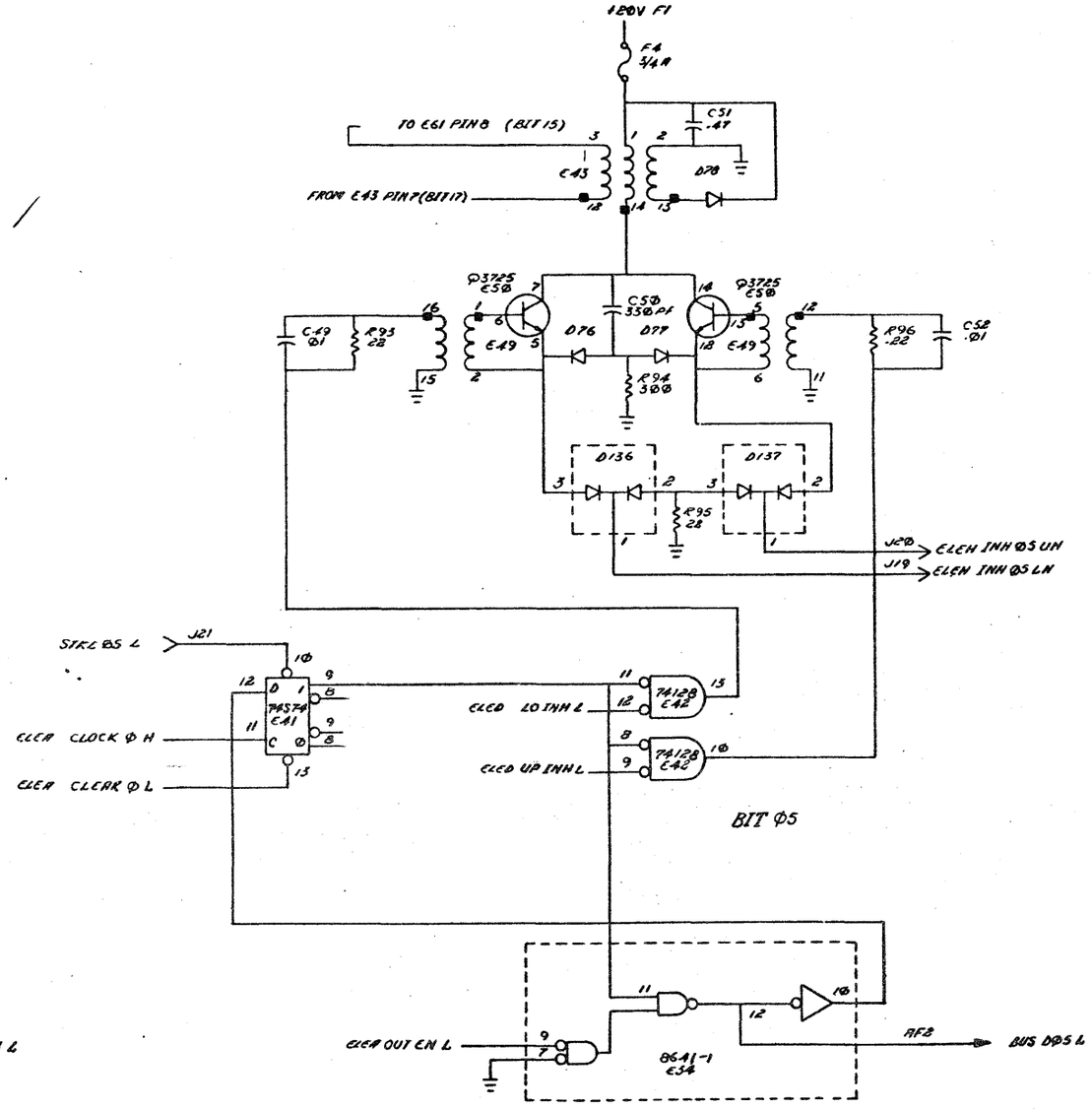

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE	CODE	NUMBER	REV.
32K SPC ELECTRONICS (ELEH)		D	CS	G657-0-1	E
SCALE NONE	SHEET 8 OF 18	DIST.			

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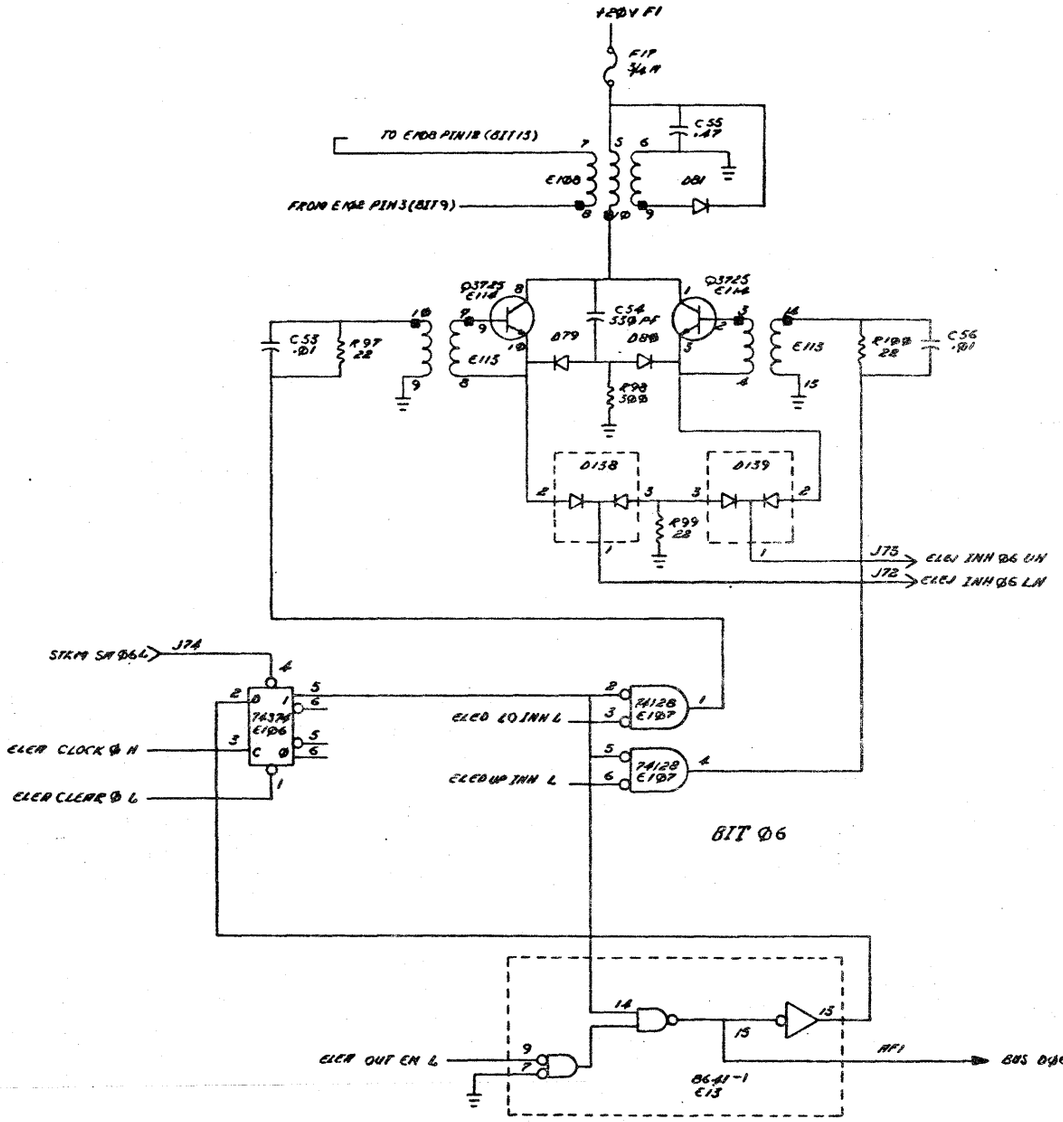

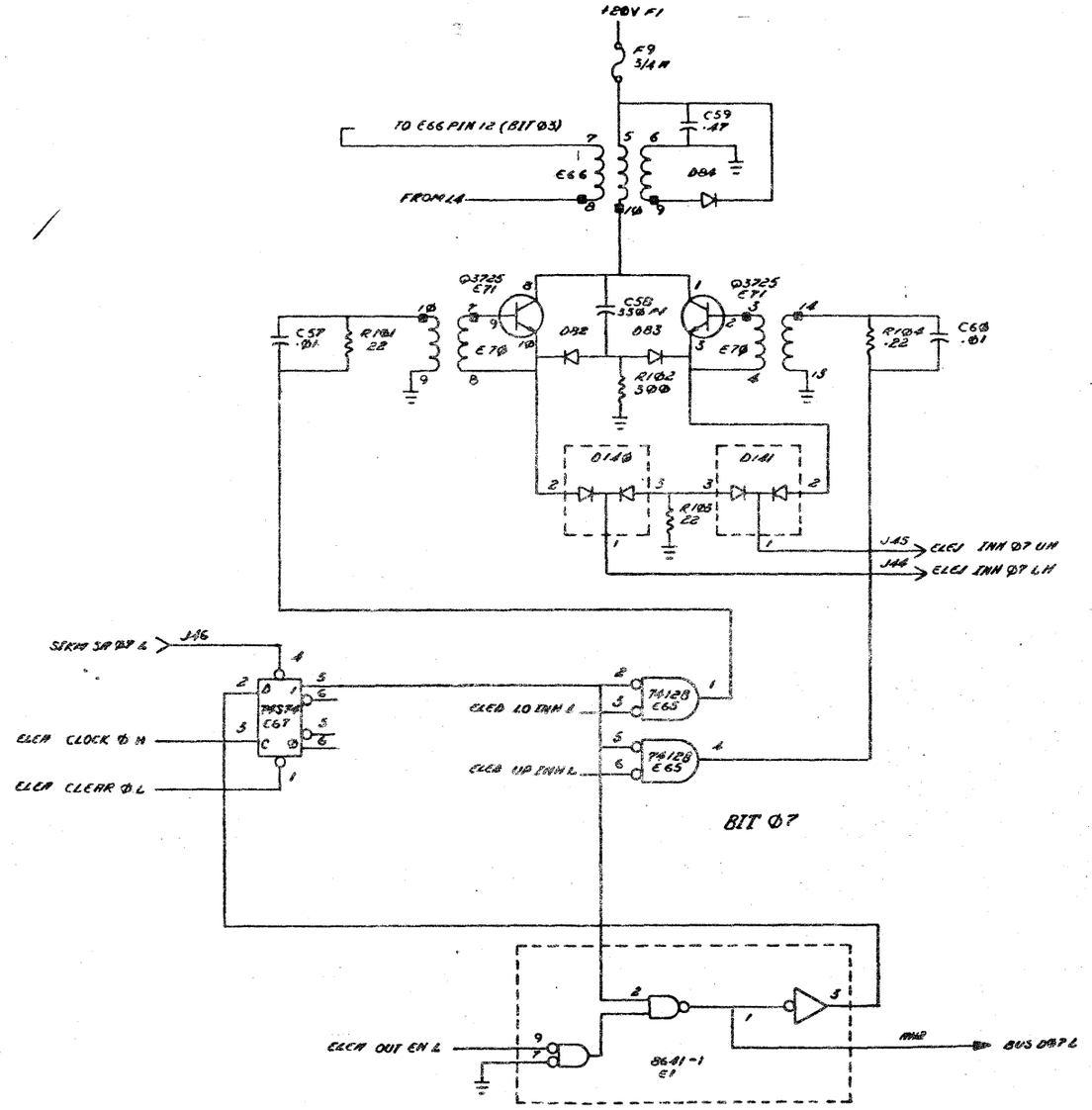

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE	CODE	NUMBER	REV.
32K SPC ELECTRONICS (ELEJ)		D	CS	G657-Ø-1	E
SCALE NONE	SHEET 9 OF 18	DIST.			

FILE CODE DCS G657-Ø-1 REV. E

ML2

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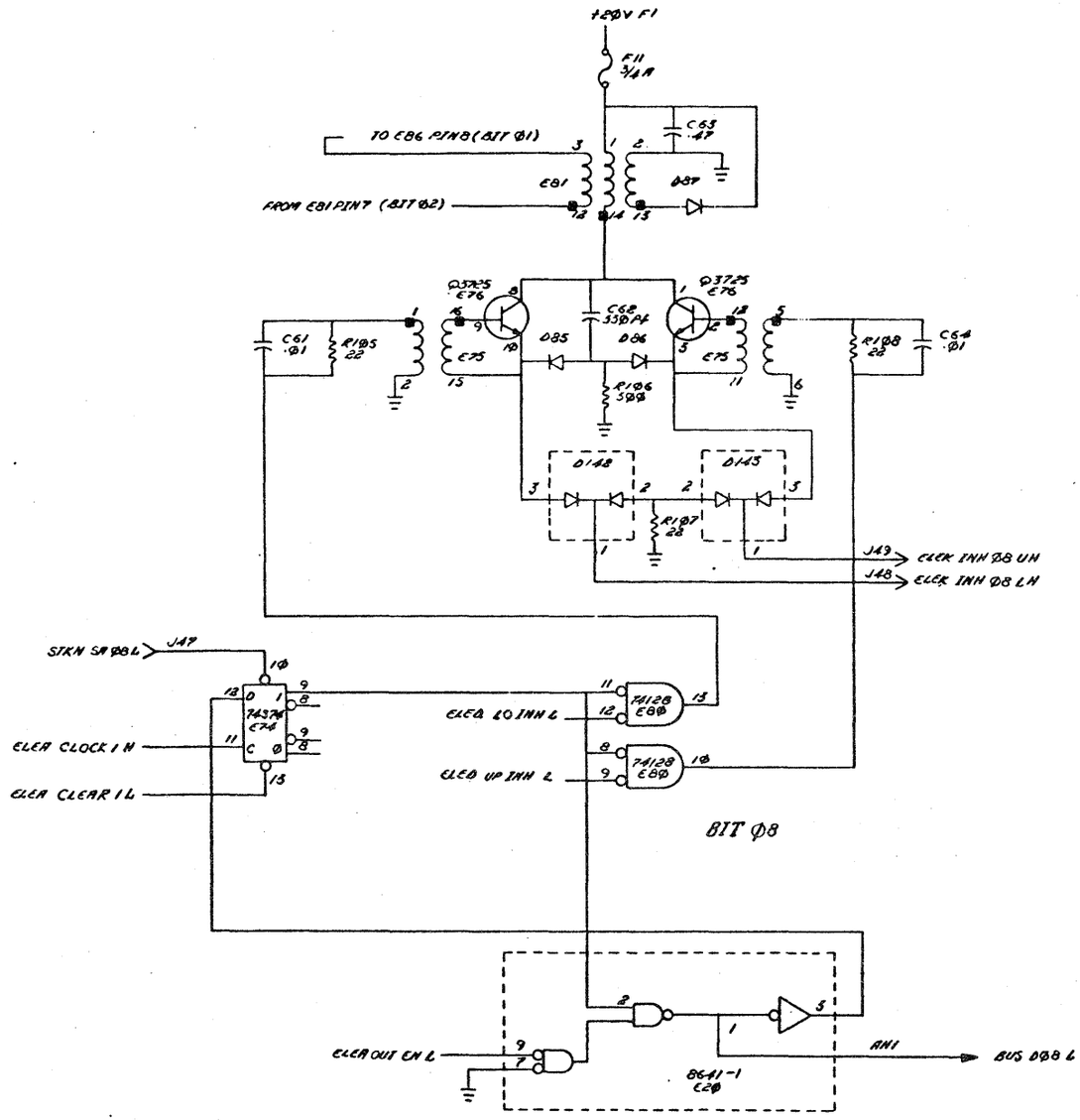

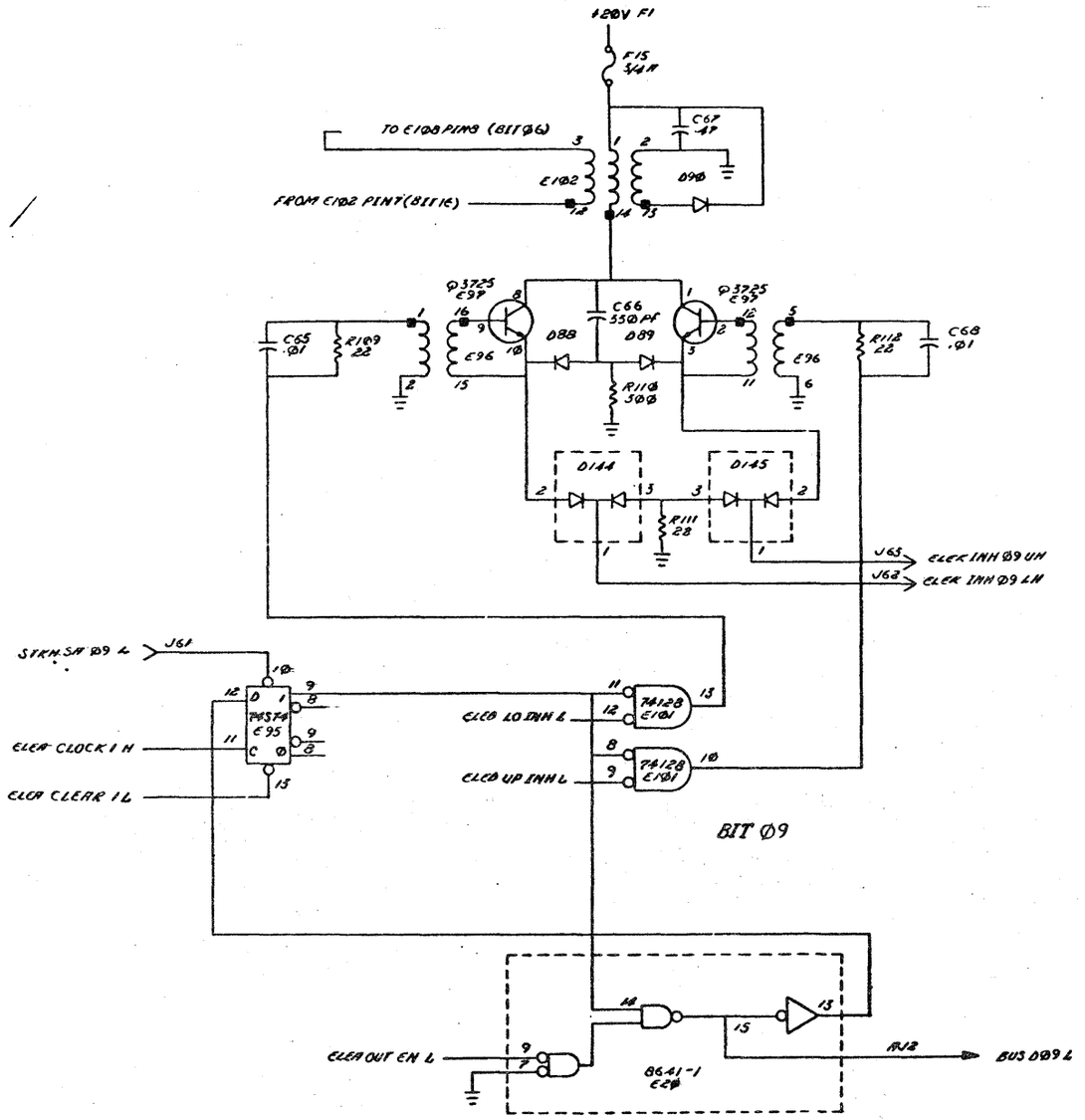

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE: 32K SPC ELECTRONICS (ELEK)		SIZE: D	CODE: CS	NUMBER: G657-0-1
SCALE: NONE	SHEET 10 OF 18	DIST.		REV. E

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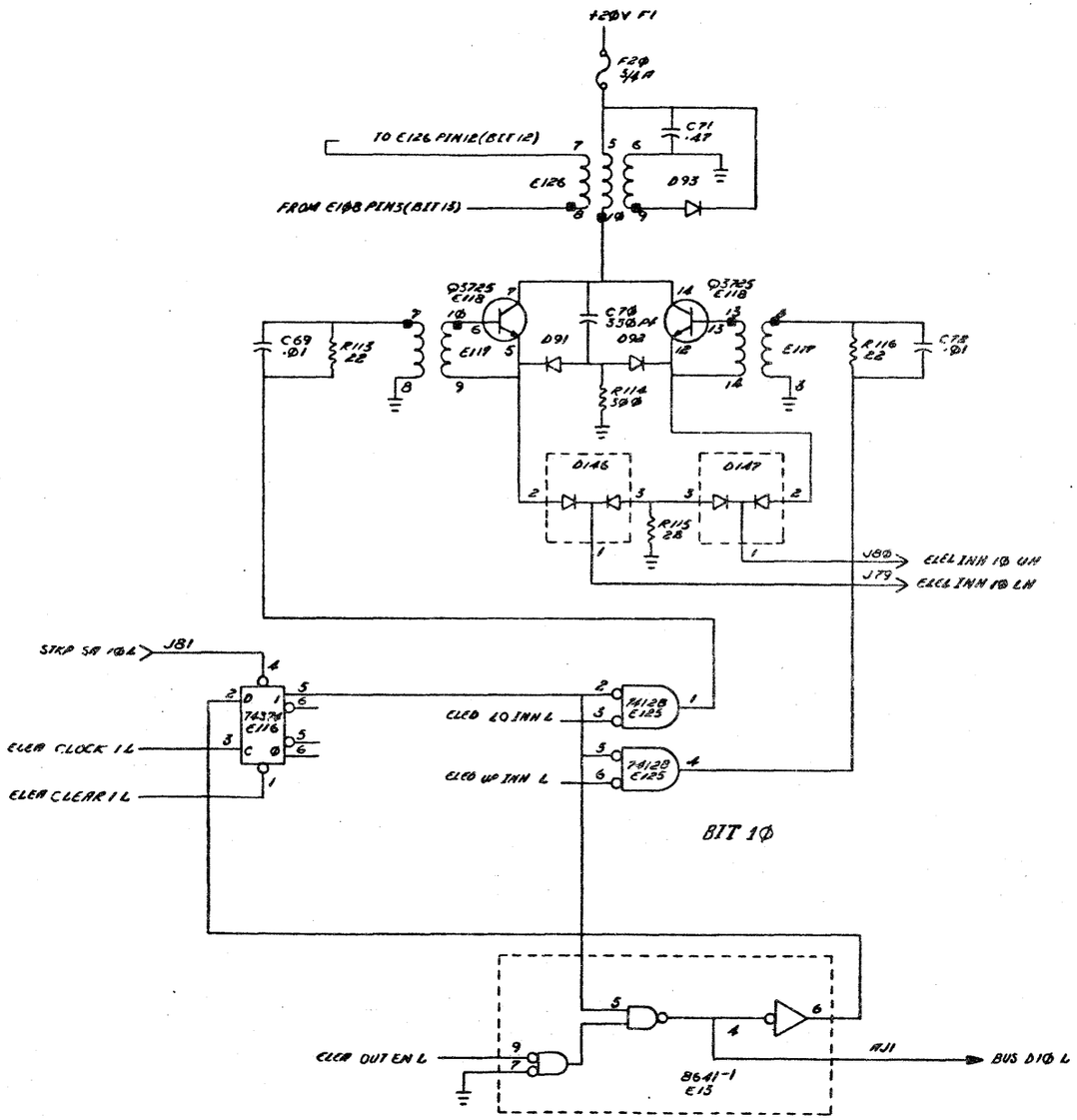

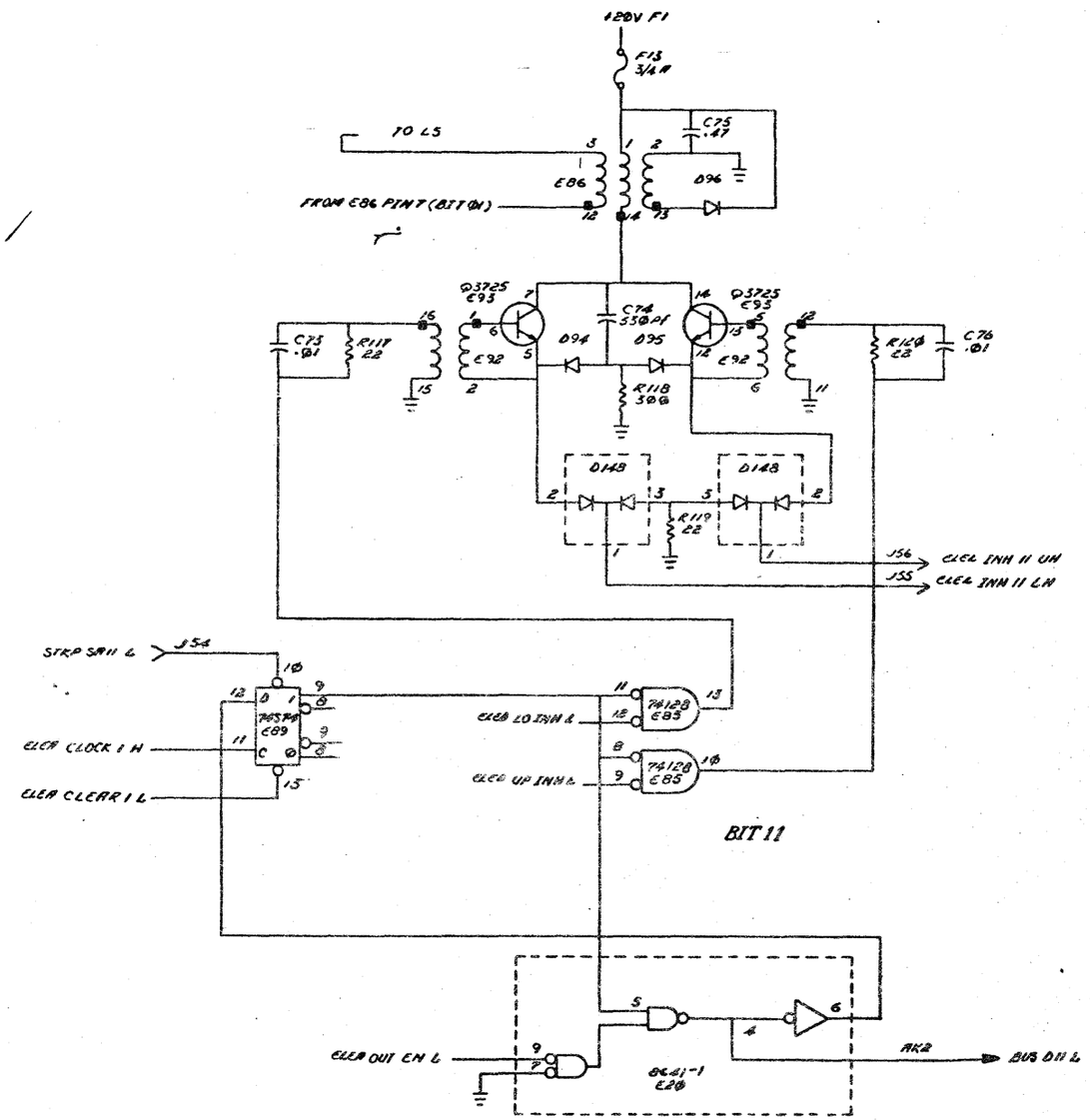

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE	CODE	NUMBER	REV.
32K SPC ELECTRONICS (ELEL)		D	CS	G657-Ø-1	E
SCALE NONE	SHEET 11 OF 18	DIST.			

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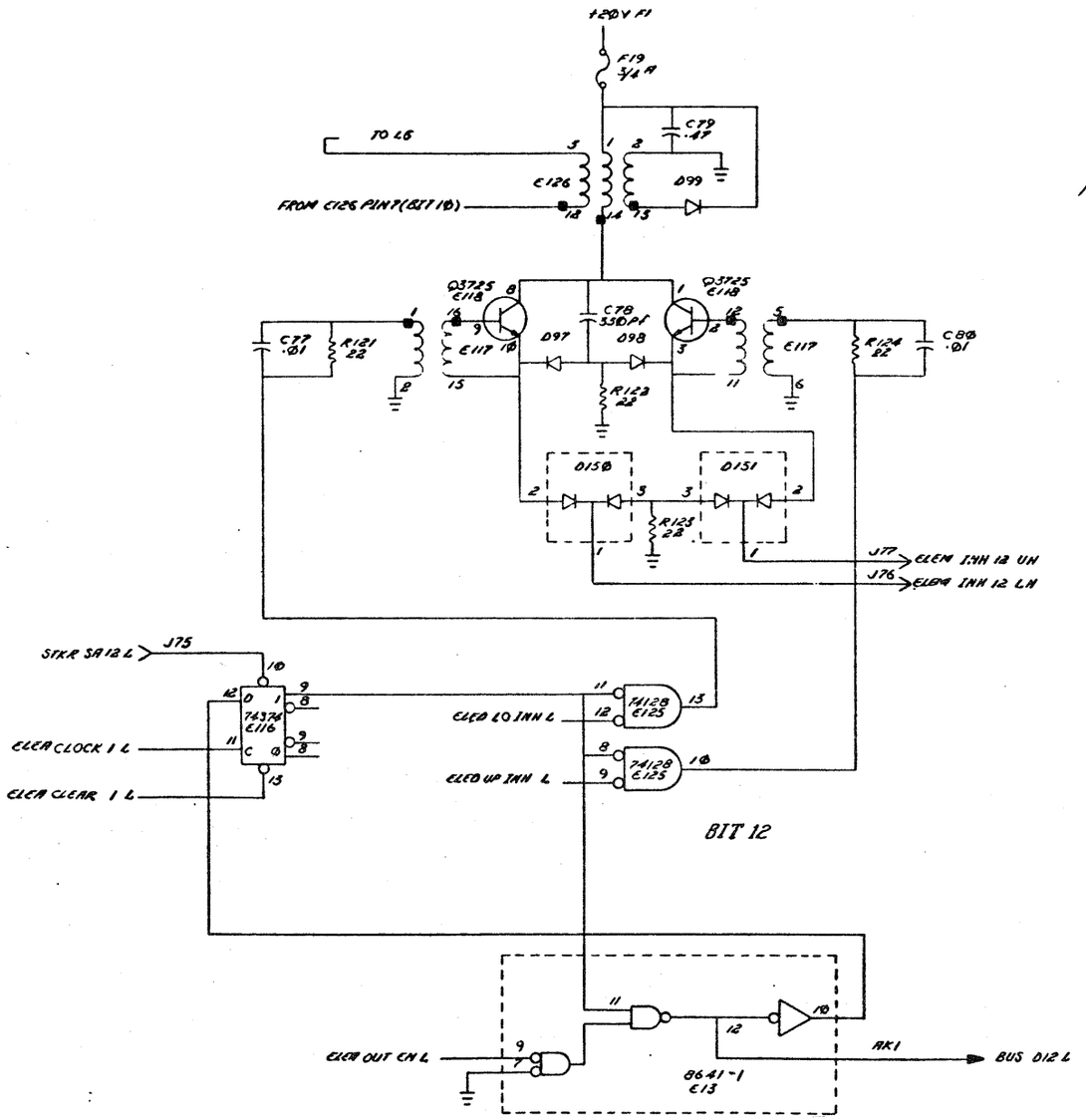

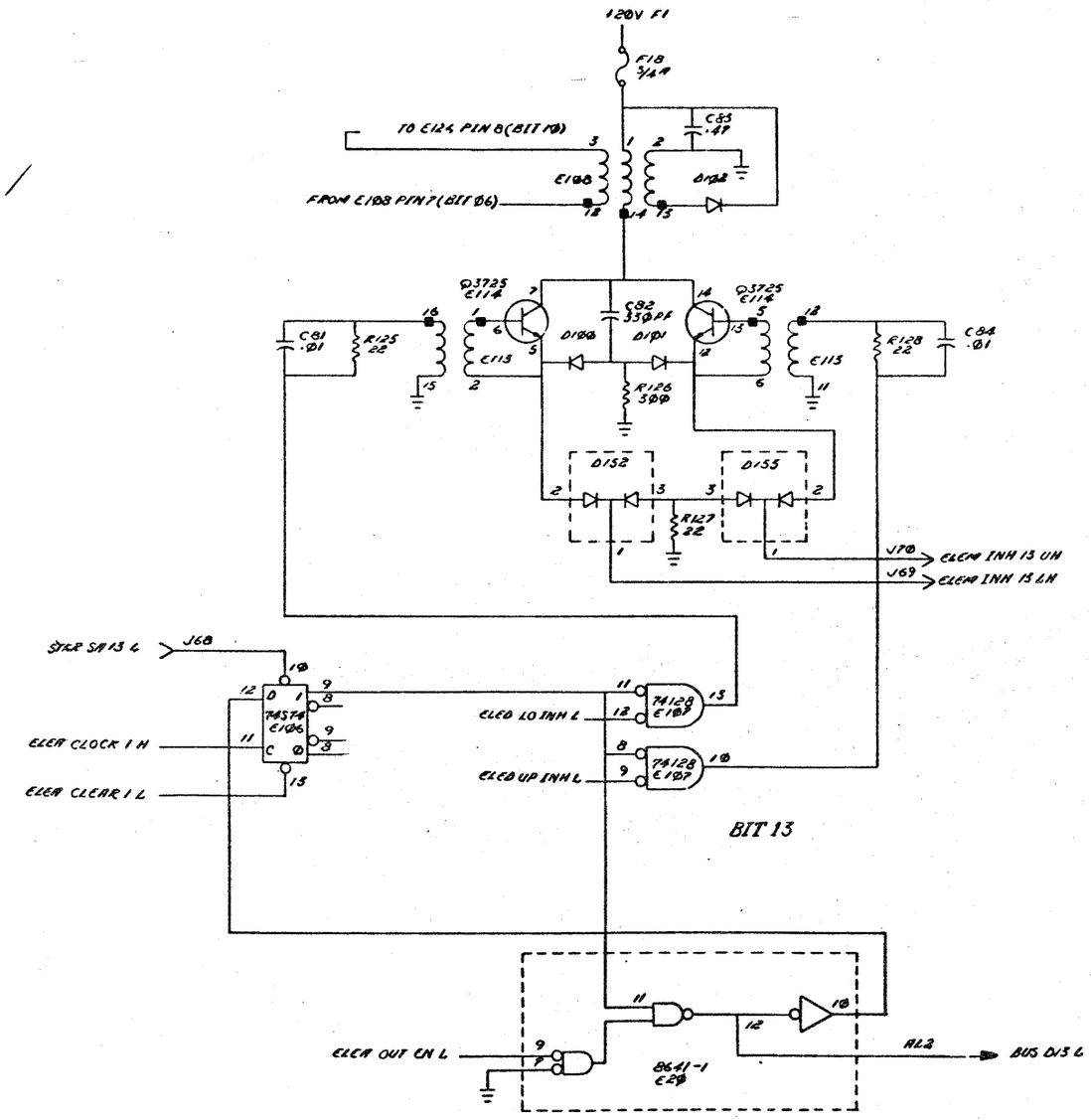

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE: 32K SPC ELECTRONICS (ELEM)		SIZE: D	CODE: CS	NUMBER: G657-0-1
SCALE: NONE	SHEET 12 OF 18	DIST.		REV. E

ML2

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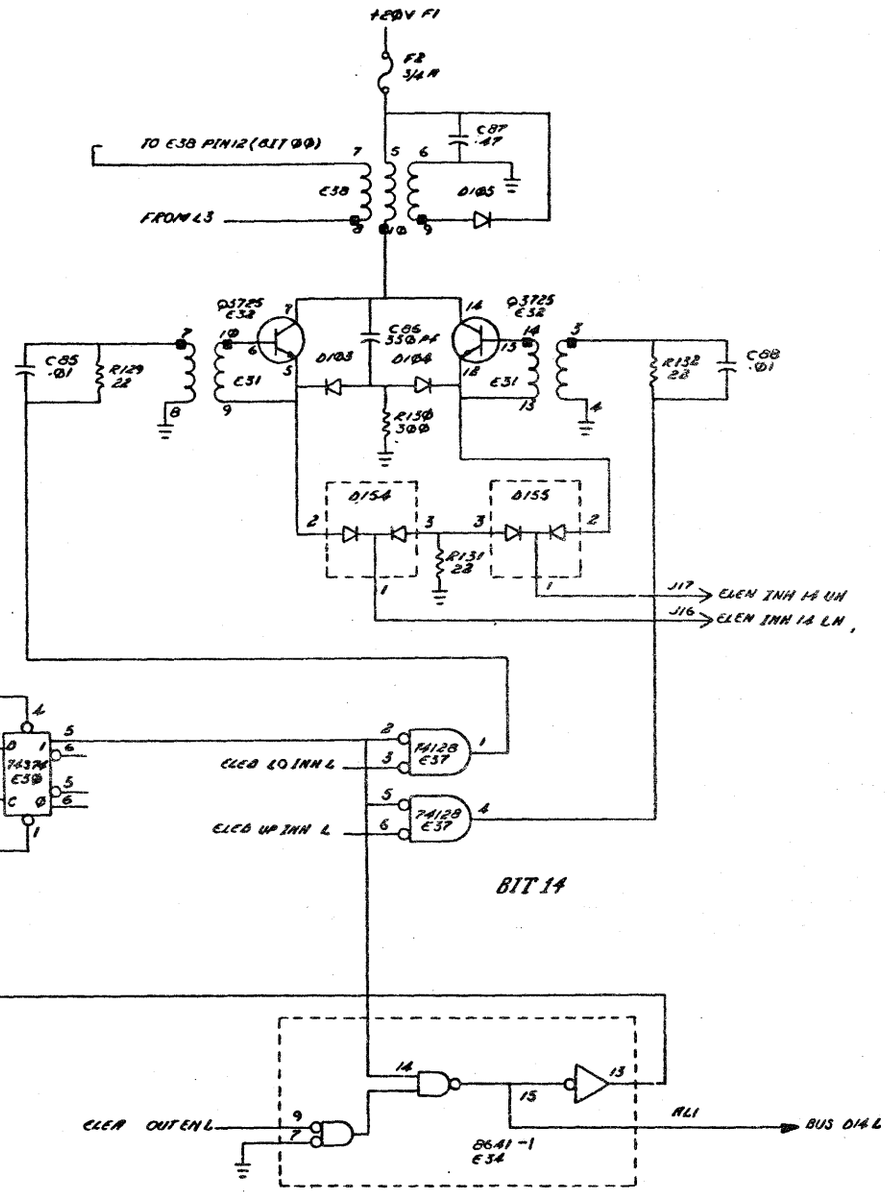

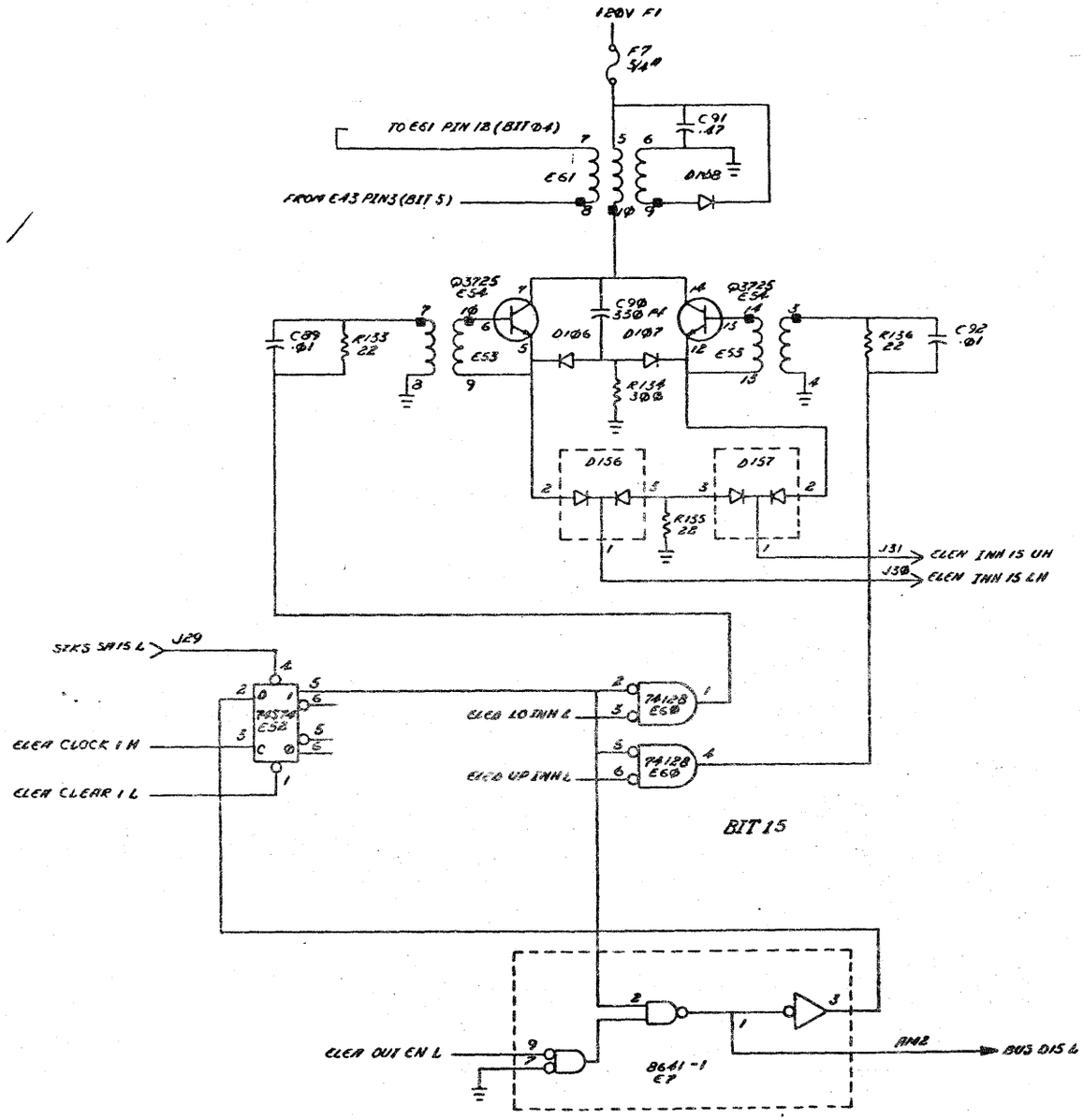

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE	CODE	NUMBER	REV.
32K SPC ELECTRONICS	(ELEN)	D	CS	G657-Ø-1	E
SCALE NONE	SHEET 13 OF 18	DIST.		ML2	

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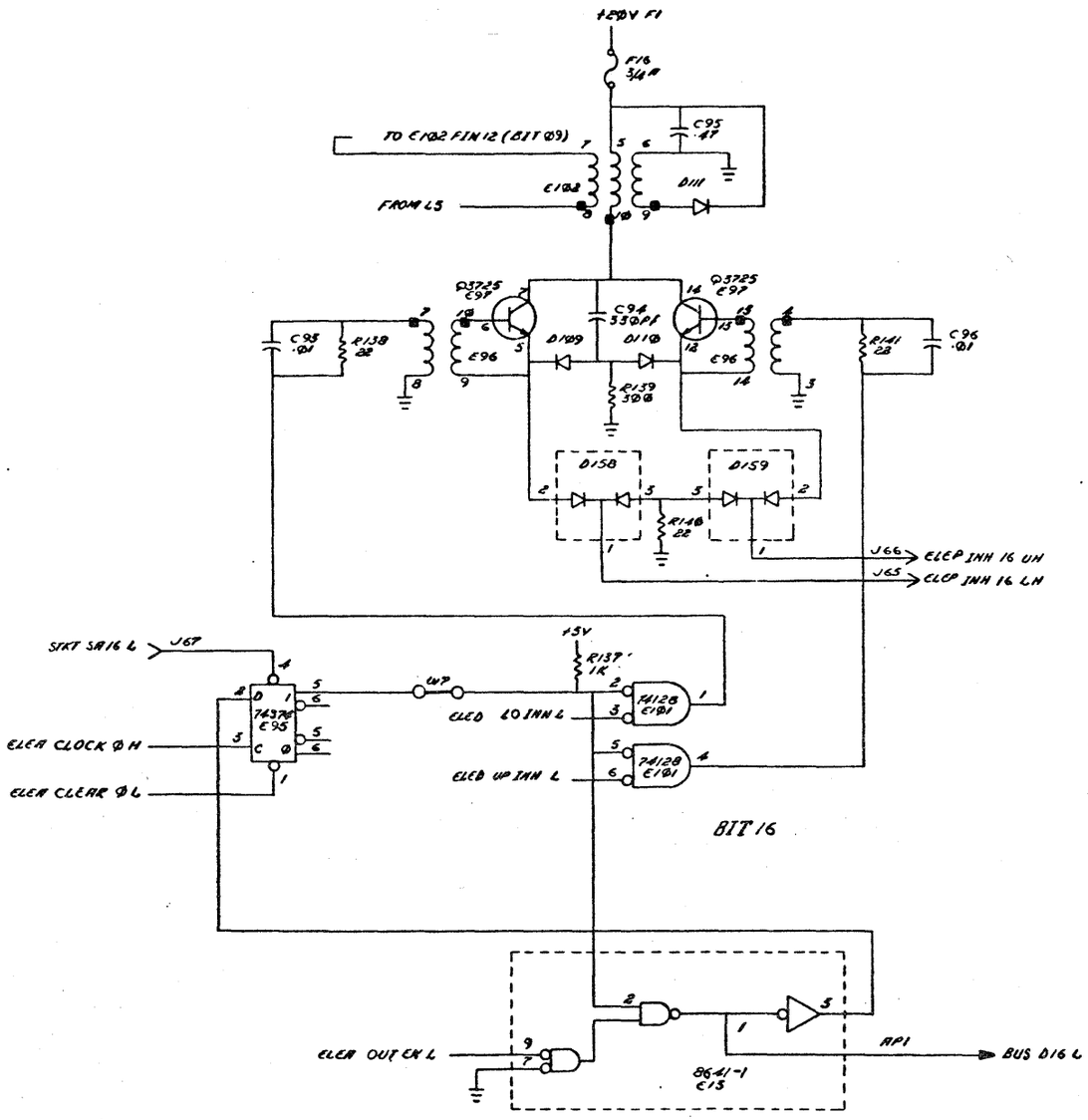

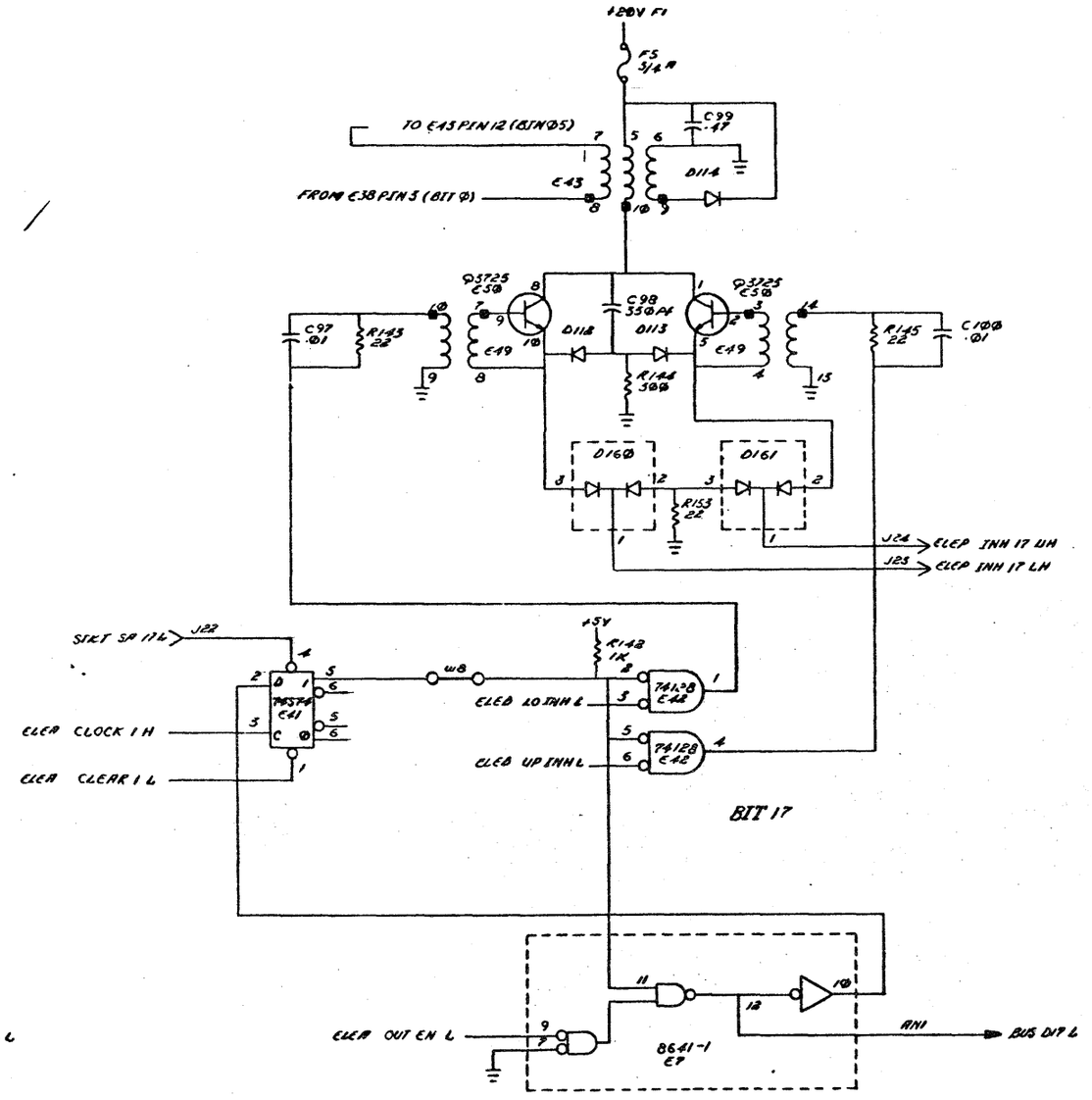

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE	CODE	NUMBER	REV.
32K SPC ELECTRONICS (ELEP)		D	CS	G657-Ø-1	E
SCALE NONE	SHEET 14 OF 18	DIST.			

ML2

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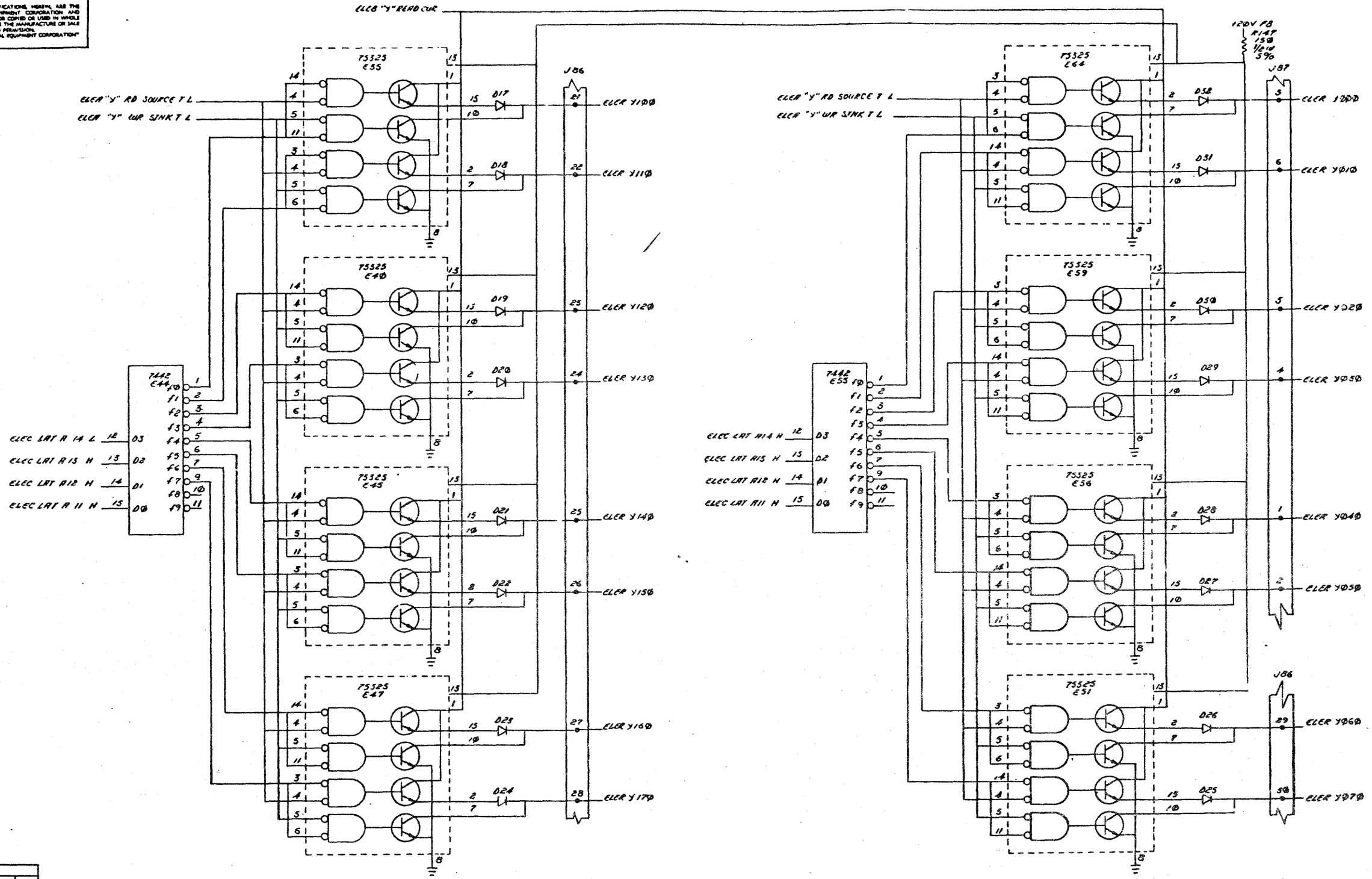

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	(ELER) 32K SPC ELECTRONICS	SIZE D	CODE CS	NUMBER G657-Ø-1	REV. E
SCALE NON	SHEET 15 OF 18	DIST.			

DEC FORM NO. DRD 138

ML2

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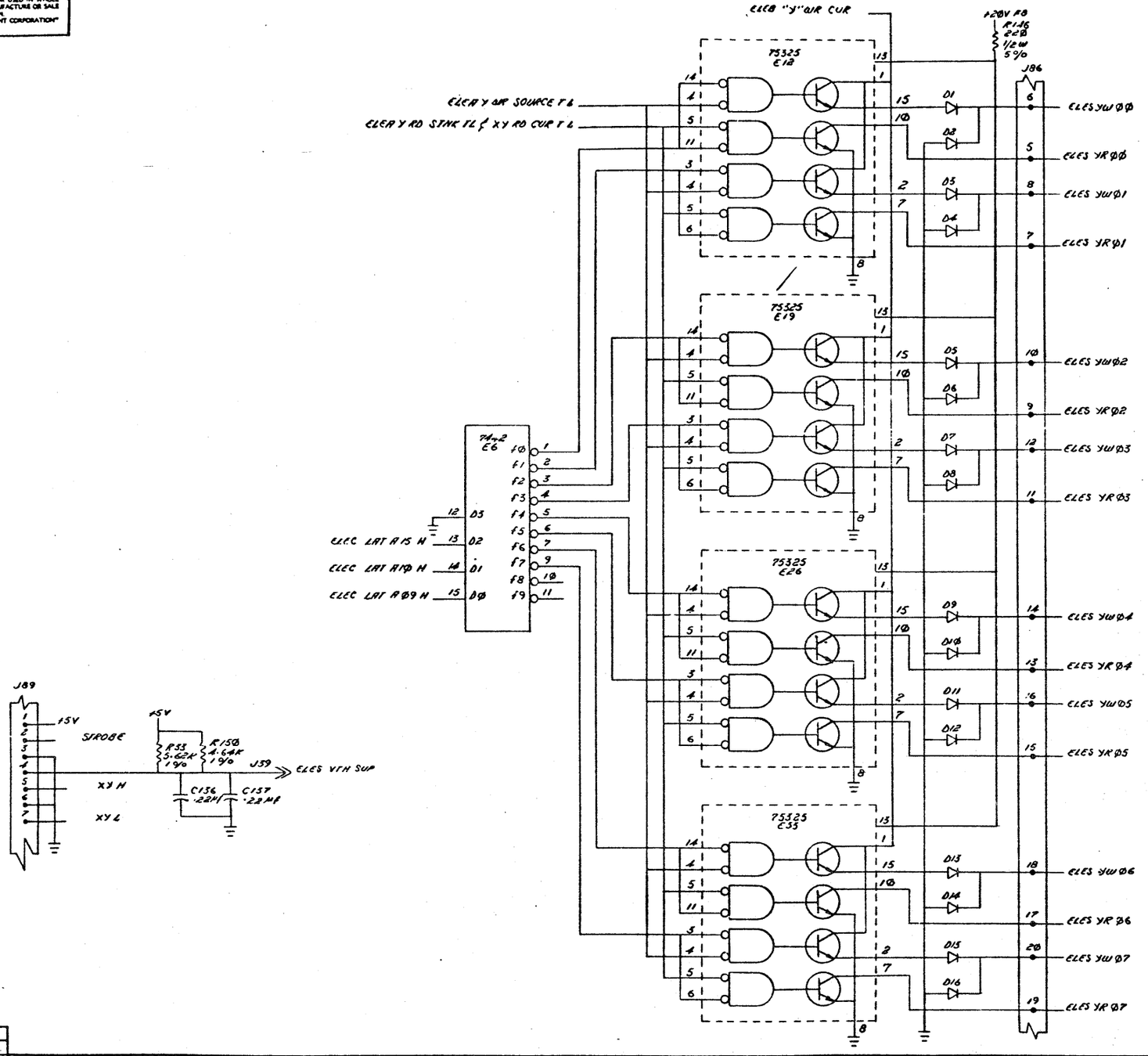

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
32K SPC ELECTRONICS (ELES)	D	CS	G657-0-1	E
SCALE NONE SHEET 16 OF 18	DIST.			

DEC FORM NO. DRD 138

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ELEB X RD CUR

ELEB "X" RD SOURCE T L
ELEB "X" WR SINK T L

75325 E99 — D33 → J88 9 → ELET X ØØØ
D34 → J88 10 → ELET X Ø1Ø
75325 E104 — D35 → J88 11 → ELET X Ø2Ø
D36 → J88 12 → ELET X Ø3Ø
75325 E105 — D37 → J88 13 → ELET X Ø4Ø
D38 → J88 14 → ELET X Ø5Ø
75325 E110 — D39 → J88 15 → ELET X Ø6Ø
D40 → J88 16 → ELET X Ø7Ø

7442 E103 (F0–F9)
ELEC LAT A DB L — 12 — D3
ELEC LAT A DI M — 13 — D2
ELEC LAT A DØ6 N — 14 — D1
ELEC LAT A DØ5 N — 15 — DØ

ELEA X RD CUR

ELEA "X" RD SOURCE T L
ELEA FWR SINK T L

75325 E124 — D48 → J88 25 → ELET X ØØØ
D47 → J88 24 → ELET X Ø1Ø
75325 E121 — D46 → J88 21 → ELET X Ø2Ø
D45 → J88 22 → ELET X Ø3Ø
75325 E120 — D44 → J88 19 → ELET X Ø4Ø
D43 → J88 20 → ELET X Ø5Ø
75325 E115 — D42 → J88 17 → ELET X Ø6Ø
D41 → J88 18 → ELET X Ø7Ø

ADDV F8
R149 150Ω 1/2W 5%
J88

7442 E127 (F0–F9)
ELEC LAT A DB H — 12 — D3
ELEC LAT A DI H — 13 — D2
ELEC LAT A DØ6 H — 14 — D1
ELEC LAT A DØ5 H — 15 — DØ

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
32KSPC ELECTRONICS (ELET)	D	CS	G657-Ø-1	E
SCALE NONE	SHEET 17 OF 18	DIST.		

DEC Form NO. DRD 138

ML2

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ELEB X WR CUR

ELEA "X" WR SOURCE T L
ELEA "X" RD SINK T L

75325 E83
75325 E88
75325 E90
75325 E94

7442 E98
ELEC LAT A Ø4 L
ELEC LAT A Ø3 H
ELEC LAT A Ø2 H
ELEC LAT A Ø1 H

J87
ELEU XW10
ELEU XR10
ELEU XW11
ELEU XR11
ELEU XW12
ELEU XR12
ELEU XW13
ELEU XR13

J88
ELEU XW14
ELEU XR14
ELEU XW15
ELEU XR15
ELEU XW16
ELEU XR16
ELEU XW17
ELEU XR17

+5V F8
R148
130
1/2 W
5%

ELEA "X" WR SOURCE L
ELEA "X" RD SINK T L

75325 E60
75325 E75
75325 E77
75325 E79

7442 E87
ELEC LAT A Ø4 H
ELEC LAT A Ø3 H
ELEC LAT A Ø2 H
ELEC LAT A Ø1 H

J87
ELEU XW00
ELEU XR00
ELEU XW01
ELEU XR01
ELEU XW02
XR02
ELEU XW03
ELEU XR03
ELEU XW04
ELEU XR04
ELEU XW05
ELEU XR05
ELEU XW06
ELEU XR06
ELEU XW07
ELEU XR07

REVISIONS

CHK	CHANGE NO.	REV

TITLE	SIZE	CODE	NUMBER	REV.
32K SPC ELECTRONICS (ELEU)	D	CS	G657-Ø-1	E
SCALE NONE SHEET 18 OF 18	DIST.			

DEC FORM NO. DRD 138

digital EQUIPMENT CORPORATION
MAYNARD MASSACHUSETTS

DRAWING DIRECTORY

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CUSTOMER PRINT SET INDEX

SEQUENCE	SEQUENCE
DRAWING DIRECTORY (DD11-P)	B-DD-DD11-P
BACK PLANE ASSY (DD11PK)	C-AD-7011523-0-0
BACK PLANE ASSY (DD11PF)	C-AD-7012307-0-0
MODULE UTILIZATION (DD11-P)	D-MU-DD11-P-2
POWER HARNESS (BA11-K, BA11-L)	D-IA-7011108-0-0
POWER HARNESS (BA11F, BA11-P)	D-IA-7011109-0-0
CIRCUIT SCHEMATIC (DD11-P)	D-CS-5411660-0-1
WIRE LIST (COMPLETE)	K-WL-DD11-P-1

NOTE: DD11PK ASSEMBLIES ARE ELECTRICALLY INCOMPATIBLE WITH DD11PF ASSEMBLIES. A DD11PK WILL WORK IN BA11-L AND BA11-K BOXES ONLY. A DD11PF WILL WORK IN BA11-F AND BA11-P BOXES ONLY

THIS IS PRINT SET

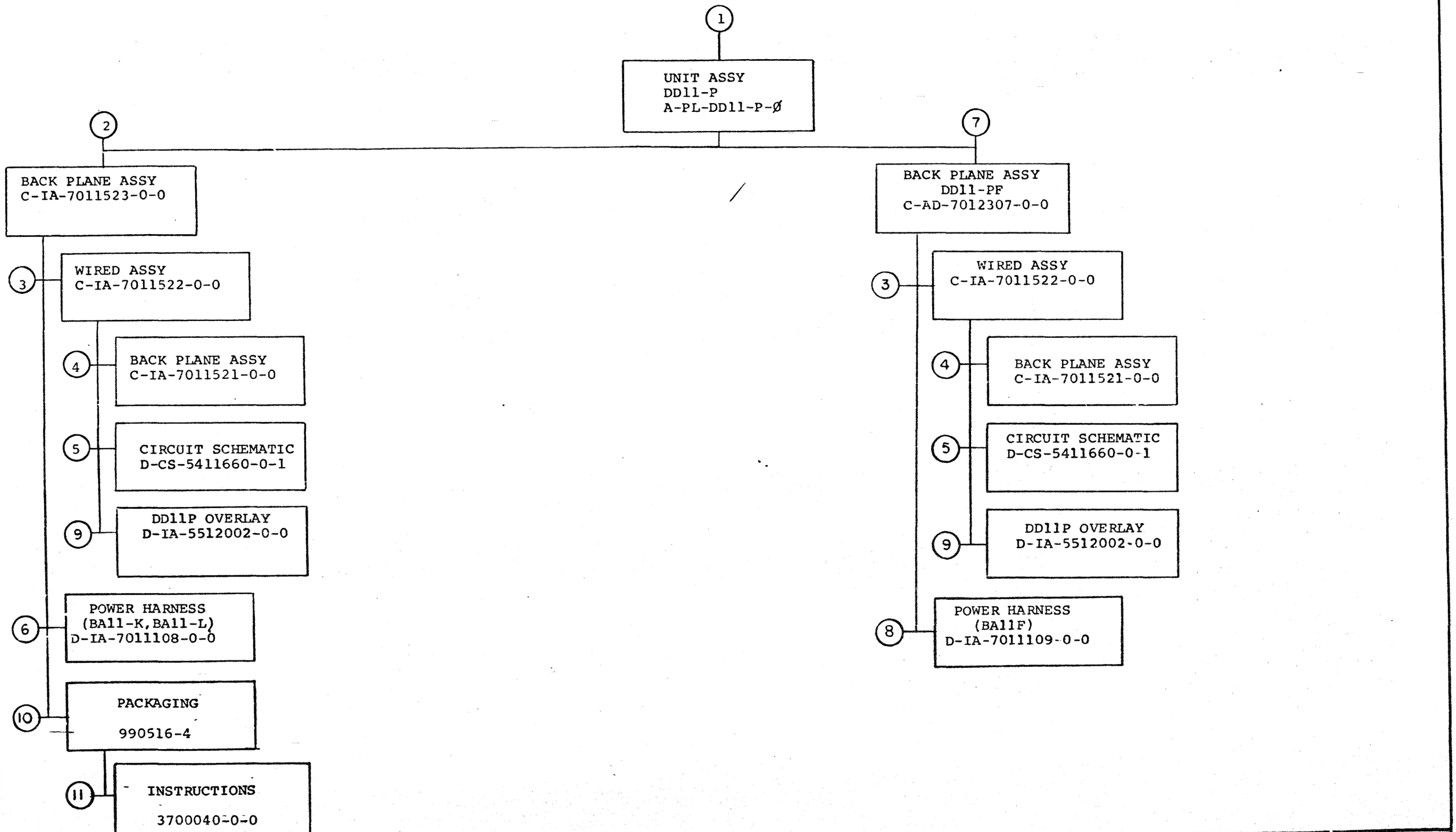
UNIT VARIATIONS		PRINT SET
VAR	TITLE	1
DD11-PK	BACK PLANE ASSY (BA11L, BA11K)	X
DD11-PF	BACK PLANE ASSY (BA11F, BA11P)	X

REVISIONS		
DATE	CHG. NO.	REV
2-76	DDIP-2	A
2-3-76	R. Barry	
9-76	DD11P-3	B
12-76	DD11P-4	C
2-77	DD11P-5	D

USED ON OPTION/MODEL		DRN.	DATE	TITLE
		D. HEALY	6/19/75	DRAWING DIRECTORY DD11-P
		CHK'D. D. Healy	DATE 6/30/75	
		PROJ ENG. R Barry	DATE 7-2-75	
		PROD. R K Peterson	DATE 7/2/75	SIZE B / CODE DD / NUMBER DD11-P / REV D
		FIELD SERV.	DATE 7-3-75	DIST

SHEET 1 OF 3

DRB 106



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

ELECTRICAL

CUSTOMER PRINT SET				MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
1										
					1	A-PL-DD11-P-Ø		1	UNIT ASSY DD11-P	
X						D-MU-DD11-P-2		1	MODULE UTILIZATION	
X					2	C-IA-7011523-0-0		1	BACK PLANE ASSY DD11-PK	
					3	C-IA-7011522-0-0		1	WIRED ASSY	
X						K-WL-DD11-P-1	C	1	WIRE LIST	
						A-WT-7011522-0		1	AWT REV STATUS	
X					5	D-CS-5411660-0-1		1	CIRCUIT SCHEMATIC	
X					6	D-IA-7011108-0-0		1	POWER HARNESS (BA11-K,BA11-L)	
X					7	C-AD-7012307-0-0		1	BACK PLANE ASSY DD11-PF	
X					8	D-IA-7011109-0-0		1	POWER HARNESS(BA11-F,BA11-P)	

MECHANICAL

CUSTOMER PRINT SET				MFG SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
1										
					1	A-PL-DD11-P-Ø		1	UNIT ASSY DD11-P	
					2	C-IA-7011523-0-0		1	BACK PLANE ASSY DD11-PK	
					3	C-IA-7011522-0-0		1	WIRED ASSY	
						B-DC-5308753-0-0		1	DECAL 21 POINT (LTR)	
						A-DC-7411881-0-0		1	LABEL, AWT REV STATUS	
					4	D-IA-7011521-0-0		1	BACK PLANE ASSY	
					5	D-CS-5411660-0-1			CIRCUTI SCHEMATIC	
						D-AH-5411660-0-4			ASSY/DRILLING HOLE LAYOUT	
						K-CO-5411660-0-5			X-Y COORDINATE HOLE LOCATION	
						B-MH-5411660-0-6			MODULE ECO HISTORY	
						5011659			ETCH CIRCUIT BOARD	
					6	D-IA-7011108-0-0		1	POWER HARNESS (BA11-K.BA11-L)	
					7	C-AD-7012307-0-0		1	BACKPLANE ASSY DD11-PF	
					8	D-IA-7011109-0-0		1	POWER HARNESS (BA11-F,BA11-P)	
					9	D-IA-5512002-0-0		1	OVERLAY, WIRING	
					10	990516			PACKAGING	
					11	3700040-0-0			PACKAGING INSTRUCTIONS	

CUSTOMER PRINT SET CODES

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

TITLE	SHEET	SIZE	CODE	NUMBER	REV
DRAWING DIRECTORY DD11-P	SHEET 3 OF 3	B	DD	DD11-P	D

DRB 108

DEC 16-(325)-1062-2B-R972

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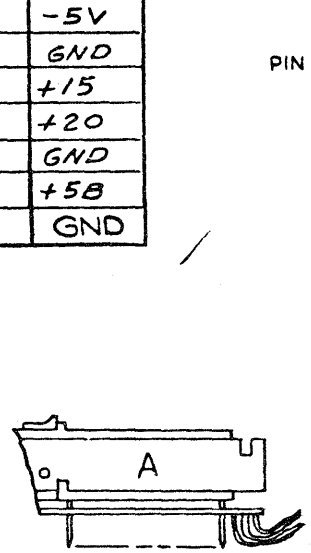
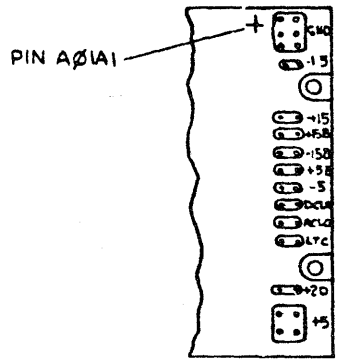
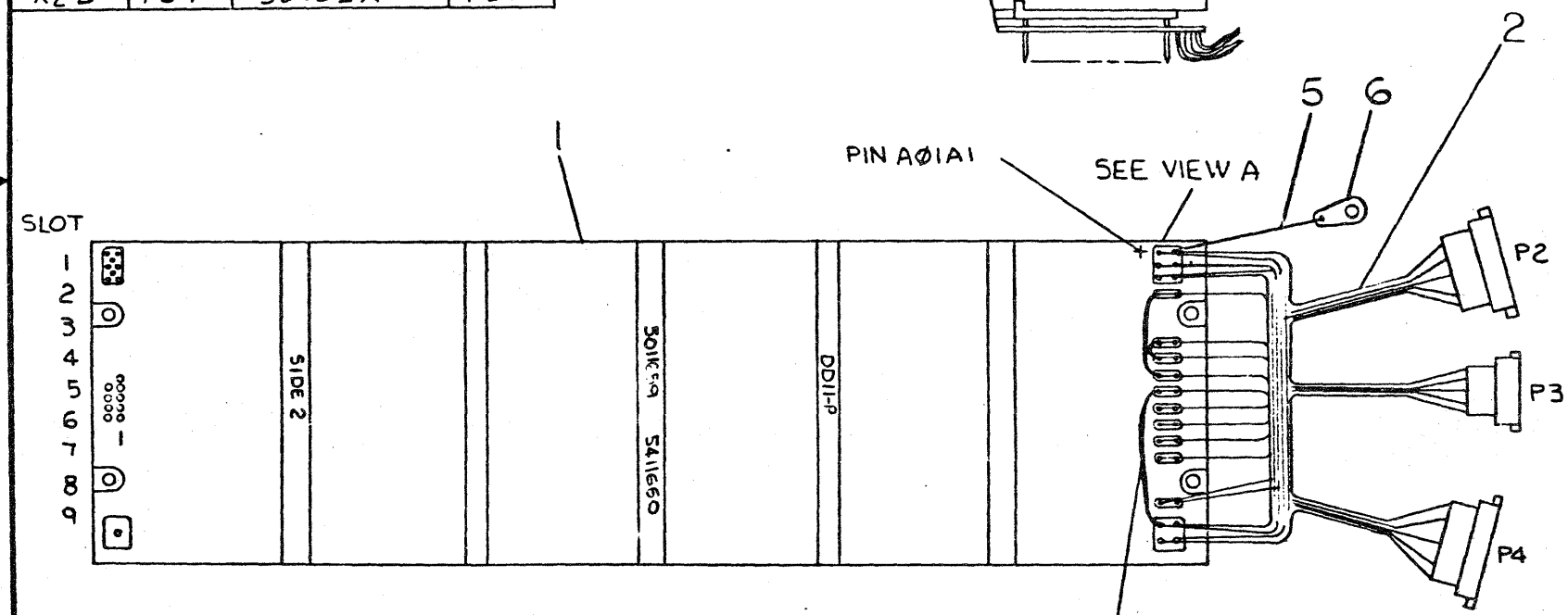
WIRE TABLE

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





VIEW A



NOTES:

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

PARTS LIST

QTY.	DESCRIPTION	PART NO.	ITEM NO.
A/R	COPRESS-O-CARTON	9905016-4	8
REF.	PACKAGING INSTRUCTIONS	3700040-0-0	7
1	TERMINAL, SOLDER	9008150	6
2"	WIRE, BLK, STRD #14	9107370-00	5
6"	TUBING #22 (BLUE)	9107256-06	4
6"	WIRE BUS #22	9107560-01	3
1	POWER HARNESS (BA11-K, BA11-L)	D-IA-7011103-0-0	2
1	WIRED ASSY DD11-P	C-IA-7011522-0-0	1

REVISIONS			
CHK	CHANGE NO.	REV.	
SD	7011523-00001	A	E. Edmond 13-Oct-75
			R. BARRY 15 OCT 75
TC	DD11P-00002	B	A. Yorke 4-FEB-76
			R. BARRY 2-MARCH-76
TC	D511-P-00005	C	R. Barry 17-FEB-77
			D. BARRY 17-FEB-77
TC	7011523-00002	D	Richard Barry 7 APRIL 77
			A. Yorke 6-MAY-77
			D. BARRY 24 June 77

FIRST USED ON OPTION/MODEL: DD11-P

DIMENSIONAL TOLERANCE
DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED

MILLIMETERS	INCHES	ANGLES
XXX = ±0,10	.XXX = ±.005	±0° 30'
XX = ±0,5	.XX = ±.02	
X = ±2,	.X = ±.1	

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓

MATERIAL: SEE PARTS LIST

FINISH: + +

DRN.		DATE 5/20/75
CHK'D	D. Neary	DATE 7/1/75
ENG.	R Barry	DATE 7-2-75
PROJ. ENG	R Barry	DATE 7-2-75
PROD.	R.K. Peterson	DATE 7/2/75

NEXT HIGHER ASSY.: A-PL-DD11-P -0

SCALE: ++

SHEET 1 OF 1

digital

TITLE: BACKPLANE ASS'Y (DD11-PK)

SIZE	CODE	NUMBER	REV.
C	IA	7011523-0-0	D

DIST.

SIZE C CODE IA NUMBER 7011523-0-0 REV. D

DEC FORM MA
DEC 100-9

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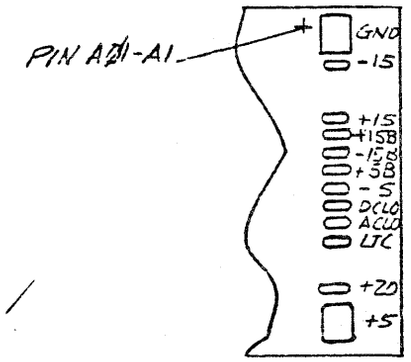
WIRE TABLE

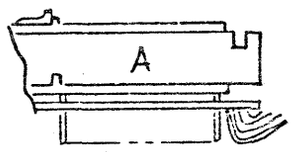
FROM			TO	FROM			TO
COLOR	POINT	CONNECTION	SIGNAL	COLOR	POINT	CONNECTION	SIGNAL
BLU	P4-13	SOLDER	-15V	BRN	P2-14	SOLDER	-5V
RED	P4-4	↕	+5V	BLK	P2-8	↕	GND
RED	P4-1	↕	+5V	GRAY	P2-2	↕	+15
BLK	P4-8	↕	GND	ORN	P2-3	↕	+20
ORN	P4-3	↕	+20V	BLK	P2-9	↕	GND
BLK	P4-9	↕	GND	RED	P2-10	SOLDER	+5B
WHT	P4-6	↕	+15B	ITEM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

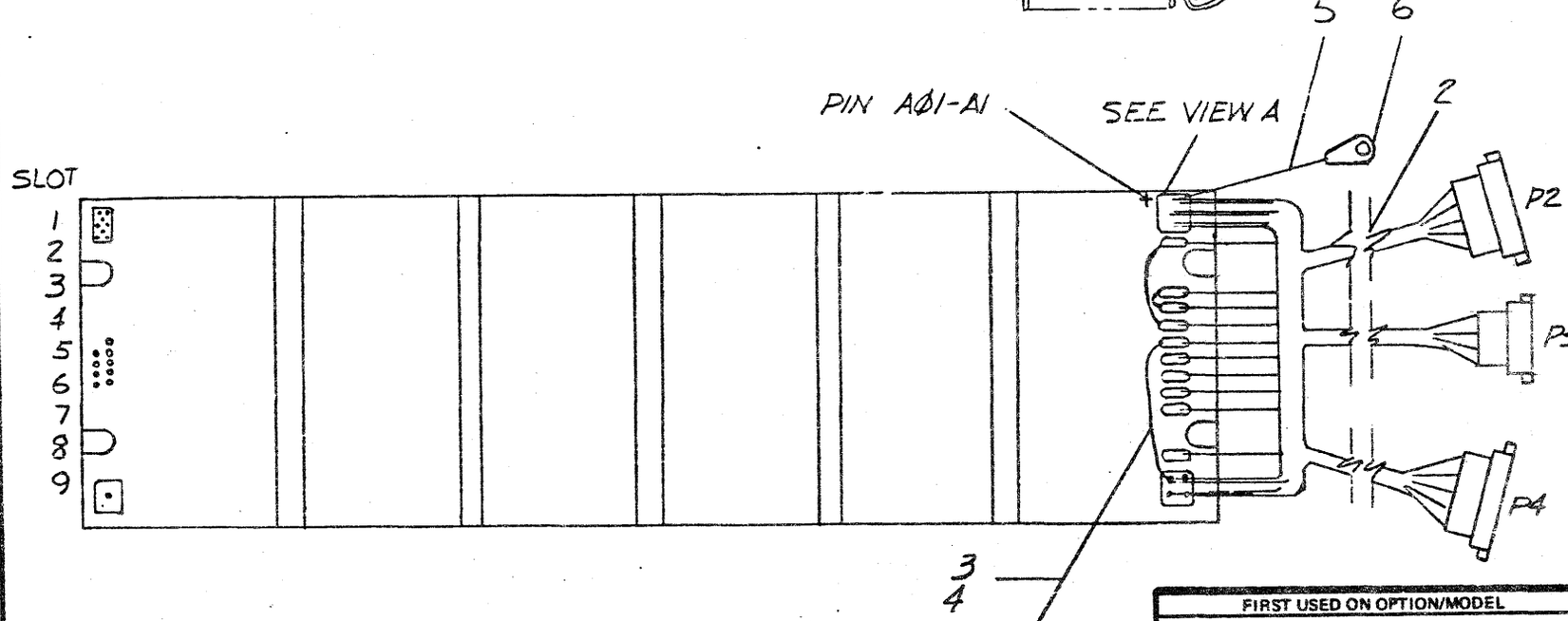
NOTES:

1. WHEN DD11-PF IS USED WITH A BA11-F EXP BOX WITHOUT BATTERY BACK UP INSTALL THE THREE JUMPERS SHOWN:
   1) -15 TO -15B
   2) +15 TO +15B
   3) +5 TO +5B
   USE #20 INSULATED BUS WIRE ON SIDE 2. THIS WILL PROVIDE POWER TO THE MOS MEM VOLTAGE RAILS.
2. INSTALL ITEM #6 UNDER LOGIC FRAME MOUNTING SCREW TO TIE LOGIC GROUND TO CHASSIS GROUND.



VIEW "A"





ITEM NO.	QTY.	DESCRIPTION	PART NO.
6	1	TERMINAL, SOLDER	9008150
5	A/R	WIRE, BLK STRD #14	9107370-00
4	A/R	TUBING, #20 (CLEAR)	9107267-10
3	A/R	WIRE, BUS #20	9107560-02
2	1	POWER HARNESS BA11-F	D-7A-7011109-0-0
1	1	WIRED ASSY DD11-P	C-7A-7011522 0-0

PARTS LIST

FIRST USED ON OPTION/MODEL: DD11-PF

DIMENSIONAL TOLERANCE
DIMENSIONS ARE ~~MILLIMETERS~~ INCHES
UNLESS OTHERWISE SPECIFIED

MILLIMETERS	INCHES	ANGLES
X.XX = ±0.10	.XXX = ±.005	±0° 30'
X.X = ±0.5	.XX = ±.02	
X = ±2	.X = ±.1	

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓

MATERIAL: SEE PARTS LIST

FINISH: —

DRN	[illegible]	DATE 12/24/75
CHK'D	D Head	DATE 12/18/75
ENG.	R Barry	DATE 12/18/75
PROJ. ENG.	R Barry	DATE 12/18/75
PROD.	K C [illegible]	DATE 12-18-75

NEXT HIGHER ASSY.: A-PL-DD11-PF-Ø

SCALE: NONE

SHEET 1 OF 1

digital

TITLE: BACK PLANE ASSY (DD11-PF)

SIZE	CODE	NUMBER	REV.
C	AD	7012307-0-0	

DIST.

REVISIONS		
REV.	CHANGE NO.	CHK

SIZE CODE CAD NUMBER 7012307-0-0 REV.

DEC FORM NO. DEC 111

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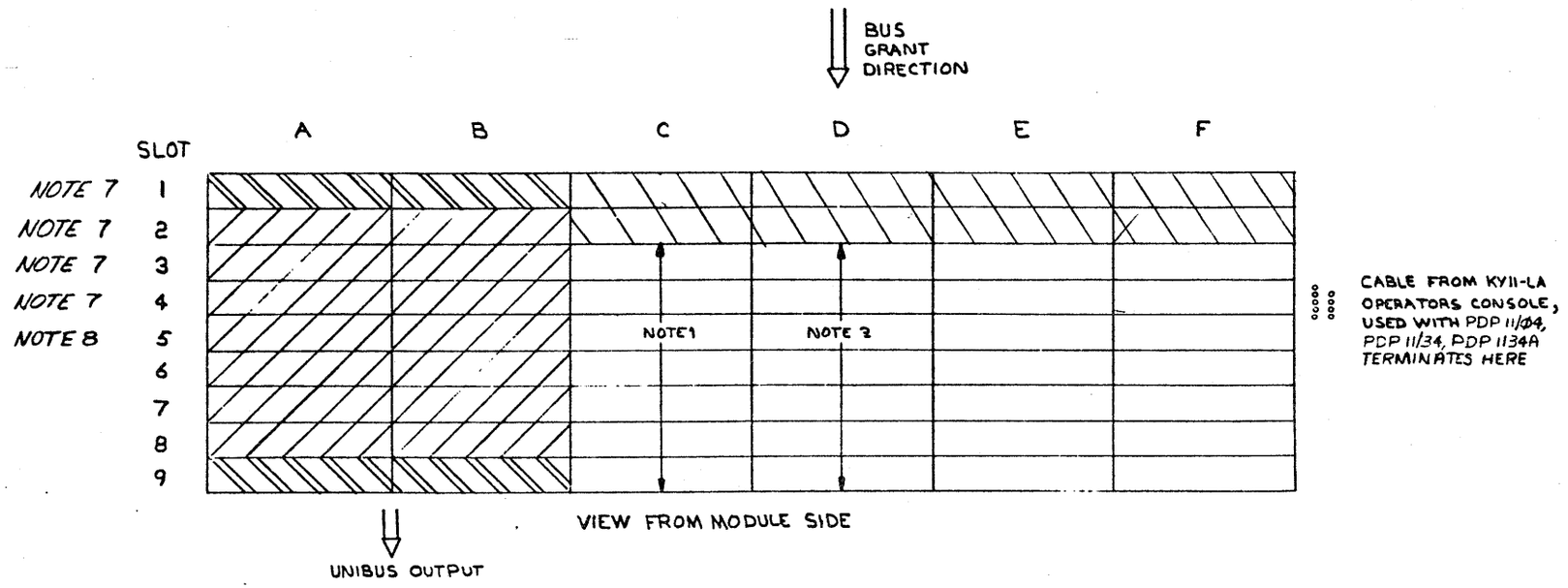
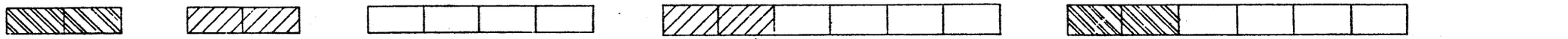


NOTES:

1. REMOVE CA1 TO CB1 WIRE WRAP JUMPER TO INSTALL AN NPR OPTION IN ANY SPC SLOT.
2. G727 REQUIRED IN ANY UNUSED SPC SLOT TO PROVIDE BUS GRANT CONTINUITY.
3. GRANT DIRECTION IS SLOT 1 TO SLOT 9.
4. USE M9202 TO INTERCONNECT SYSTEM UNITS INSTEAD OF M920. M9202 IS A 2 FT. UNIBUS JUMPER CABLE USED TO DISTRIBUTE UNIBUS LOADING.
5. M9302 (SACK/TERM) AND M930 (TERM) MUST NEVER BE INSTALLED IN ANY SLOT OTHER THAN SLOT 9 (A & B). POWER SUPPLY VOLTAGES WILL BE SHORTED OUT IF THESE TERMINATORS ARE MOUNTED IN THE MODIFIED UNIBUS SLOTS.
6. MODIFIED UNIBUS SECTION CARRIES CORE AND MOS MEMORY VOLTAGE RAILS AND MEMORY PARITY CONTROL SIGNALS INSTEAD OF BUS GRANT AND SOME GND SIGNALS THAT ARE CONTAINED IN STANDARD UNIBUS SLOTS.
7. REFER TO NEXT PAGE FOR RECOMMENDED UTILIZATION OF THIS SLOT IN STANDARD SYSTEM.
8. THIS SLOT IS RESERVED FOR KK11-A OPTION ON PDP1134A ONLY BA11-K BOX ONLY.
9. *SLOT 3 IS TO BE USED FOR EITHER KK11-A OR FP11-A OPTIONS. IF BOTH OPTIONS ARE PRESENT FP11-A MUST GO IN SLOT 3 AND KK11-A IN SLOT 5 THESE CONFIGURATIONS APPLY TO BOTH THE BA11-L (5¼") AND BA11-K (10.5") BOXES.*
10. *EITHER M9312 OR M9301 MAY BE USED BUT NOT BOTH.*



STANDARD UNIBUS
(SLOTS 1 & 9)
DUAL MODULES WHICH PLUG INTO STANDARD UNIBUS SLOTS ONLY:
BC11A UNIBUS CABLE
M9302 SACK/TERM (NOTE 5)
M920 (NOTE 4)
M930 (NOTE 5)
M9202 (NOTE 4)
SLOT 9 (A&B) IS EITHER THE TERMINATION OF THE UNIBUS OR THE OUTPUT CABLE (BC11A)

MODIFIED UNIBUS
(SLOTS 2-8)
DUAL MODULES WHICH PLUG INTO THE MODIFED UNIBUS ONLY:
M9312 BOOT/TERM.
M9306 TERM.
M7850 PARITY CONT.

SMALL PERIPHERAL CONTROLLER
(SLOTS 3-9)
ANY S.P.C. OPTION

C D E F

CPU BUS
(SLOTS 1 & 2)
PROCESSOR INTERCONNESS FOR KD11-E AND KD11-EA

HEX MODULE WITH MODIFIED UNIBUS SIGNALS
(SLOTS 2-8)
HEX MODULES THAT PLUG INTO MODIFIED UNIBUS ONLY:
M7847 MOS MEMORY (MS11 EP-JP)
MM11-BP, CP, DP, OR YP CORE MEMORY

HEX MODULE WITH STANDARD UNIBUS SIGNALS
SLOT 1 ONLY
M7263 PDP11/04 CPU MODULE OR M7266 PDP 1134 CONTROL MODULE
M7266 KD11-E (PDP 11/34) CONTROL MODULE
M8266 KD11-AE (PDP 1134A) CONTROL MODULE

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

REVISIONS			
CHK	CHANGE NO.	REV.	
JC	DD11-P-00005	A	D. HARRY 6-FEB-77
Richard Bruce	DD11-P-00006	B	STEVE GUTH 6 DEC 77
J. SOFIO			13 DEC 77
JC	DD11-P-00007	C	J. SOFIO 2 FEB 78
JC	DD11P-00008	D	J. SOFIO 27 FEB 78

DESCRIPTION	DWG./PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		

ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES: OVER 0 TO 0.2	OVER 0.2 TO 1.3	OVER 1.3 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
SURFACE FINISH IN MICROINCHES	MEDIUM	±.005	±.008	±.012	±.016	±.024	±.04
	PREFERRED	±.013	±.016	±.029	±.04	±.059	±0.1

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL

FINISH

DRN C. Hall 11/31/5
CHK'D D. Neely 7/1/75
ENG. RB Bruce 7-29-75
PROJ. ENG. RBruce 7-29-75
PROD. P.K. Pitt 7/30/75
NEXT HIGHER ASSY.
B-DD-DD11-*
SCALE
SHEET 1 OF 3

FIRST USED ON

digital

TITLE
MODULE UTILIZATION (DD11-P)

SIZE D | CODE MU | NUMBER DD11-P-2 | REV. D | DISY.

SIZE CODE DNU | NUMBER DD11-P-2 | REV. D

DEC FORM NO. Dec 1004

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RECOMMENDED SLOT UTILIZATION IN STANDARD SYSTEMS

KDII-D W/M9312 & MS11-JP(FP) PDP-11/04

SLOT 1	M7269
2	MS11-JP (FP)
3	M9312
4	
5	
6	
7	
8	
SLOT 9	

KDII-E W/M9312 PDP-11/34

SLOT 1	M7266
2	M7265
3	M9312
4	
5	
6	
7	
8	
SLOT 9	

KDII-D W/M9312 & MM11-DP/OR MM11-YP PDP-11/04

SLOT 1	M7269
2	MM11-DP
3	
4	M9312
5	
6	
7	
8	
SLOT 9	

KDII-EA W/M9312 FP11-A PDP-1134A

SLOT 1	M8266
2	M8265
3	M8267
4	M9312
5	
6	
7	
8	
SLOT 9	

KDII-D W/M9312 & MM11-CP PDP-11/04

SLOT 1	M7269
2	MM11-CP
3	M9312
4	
5	
6	
7	
8	
SLOT 9	

BA11-K 10.5" BOX/BA11-L 5.25" BOX
W/M9312 FP11-A KK11-A

KDII-EA PDP1134A

SLOT 1	M8266
2	M8265
SEE NOTE 9 → 3	M8267
4	M9312
5	M8268
6	
7	
8	
SLOT 9	

KDII-EA W/M9312 PDP-1134A

SLOT 1	M8266
2	M8265
3	M9312
4	
5	
6	
7	
8	
SLOT 9	

BA11-K 10.5 BOX/BA11-L 5.25" BOX

KDII-EA W/M9312 KK11-A OR FP11-A PDP1134A

SLOT 1	M8266
2	M8265
SEE NOTE 9 → 3	M8267 OR M8268
4	M9312
5	
6	
7	
8	
SLOT 9	

A B C D E F

A B C D E F

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE: MODULE UTILIZATION (DD11-P)	SIZE: D	CODE: MU	NUMBER: DD11-P-2	REV: D
SCALE	SHEET 2 OF 2	DIST.		

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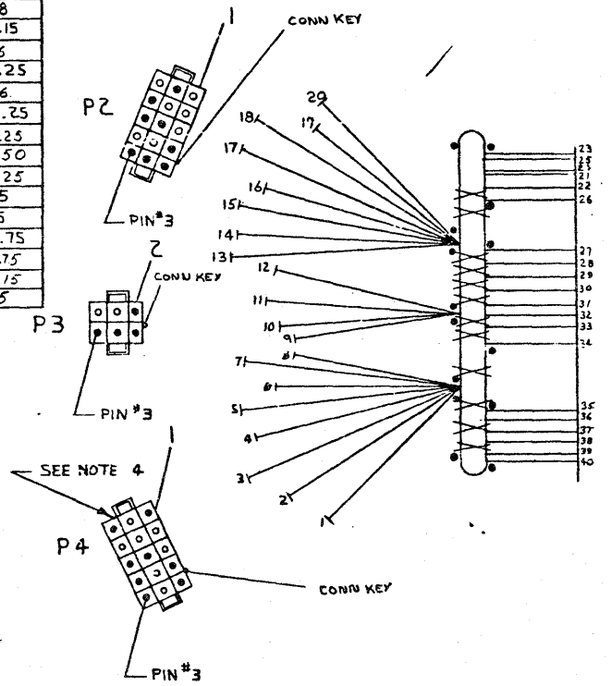
WIRING TABLE

ITEM NO.	DESCRIPTION AWG	DESCRIPTION COLOR	FROM POINT	FROM CONNECTION	FROM WITH	TO POINT	TO CONNECTION	SIGNAL	LENGTH
9	#18	BLUE	1	P4-13	3	26	SOLDER	-15V	7
5	14	RED	2	P4-4	↑	37	↑	+5V	5
5	14	RED	3	P4-1	↑	38	↑	+5V	5
6	14	BLK	4	P4-8	↑	21	↑	GND	7.75
7	14	ORN	5	P4-3	↑	35	↑	+20V	5
6	14	BLK	6	P4-9	↑	22	↑	GND	8
13	18	WHT	7	P4-6	↑	28	↑	+15B	6.15
14	18	GRN	8	P4-15	↑	29	↑	-15B	6
12	18	YEL	9	P3-4	↑	33	↑	ACLO	4.25
6	14	BLK	10	P3-1	↑	23	↑	GND	6
10	18	BRN	11	P3-2	↑	34	↑	LTC	4.25
11	18	VIO	12	P3-3	↑	32	↑	DCLO	4.25
5	14	RED	13	P2-4	↑	39	↑	+5V	7.50
5	14	RED	14	P2-1	↑	40	↑	+5V	7.25
10	18	BRN	15	P2-16	↑	31	↑	-5V	5
6	14	BLK	16	P2-8	↑	24	↑	GND	5
8	18	GREY	17	P2-2	↑	27	↑	+15	4.75
7	14	ORN	18	P2-3	↑	36	↑	+20	6.75
6	14	BLK	19	P2-9	↑	25	↑	GND	5.15
5	14	RED	20	P2-12	3	30	SOLDER	+5B	5



DO NOT REDUCE

SCALE

0 IN — 6 IN — 12 IN

FOR MANUFACTURING PURPOSES ONLY

NOTES:

1. USE TIE WRAPS (X) ITEM #4 AT BREAKOUT POINTS SHOWN
2. DOT (•) INDICATES NAIL LOCATION FOR ASS'Y USE ONLY. COVER NAILS WITH SHRINK TUBING TO PREVENT CUTTING HARNESS.
3. WIRE LENGTH TOLERANCES WILL BE +1/8, -0 INCHES.
4. ALL CONN. SHOWN FROM WIRING SIDE.

FOR WIRE LENGTHS SEE WIRING TABLE

ITEM NO.	DWG./PART NO.	DESCRIPTION
1	7409872-2-0	POWER HARNESS DECALS
A/R	9107360-55	WIRE #18 AWG, BRN
A/R	9107360-99	WIRE #18 AWG, WHT
A/R	9107360-44	WIRE #18 AWG, YEL
A/R	9107360-77	WIRE #18 AWG, VIO
A/R	9107360-11	WIRE #18 AWG, BRN
A/R	9107360-66	WIRE #18 AWG, BLUE
A/R	9107360-88	WIRE #18 AWG, GREY
A/R	9107370-33	WIRE #14 AWG, ORN
A/R	9107370-00	WIRE #14 AWG, BLK
A/R	9107370-22	WIRE #14 AWG, RED
12	9007031	TIE WRAP
20	1209378-01	PIN MATE
1	1209351-06	CONN. 6 PIN HOUSING
2	1209351-15	CONN. 15 PIN HOUSING

REV.	CHANGE NO.	CHK.
A	7011108-00001	
B	7011108-00002	

QUANTITY & VARIATION	
THIRD ANGLE PROJECTION	
REMOVE BURRS AND BREAK SHARP CORNERS	
DO NOT SCALE DWG	
MATERIAL SEE PARTS LIST	
FINISH	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

ANGLES	CLASS OF ACCURACY	NOMINAL DIMENSION RANGE INCHES				
		OVER 0 TO 0.6	OVER 0.6 TO 2.5	OVER 2.5 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
SURFACE QUALITY ANSI/ASME B46.1	CHECK ONLY					
	MEDIUM ☐	±.004	±.008	±.012	±.016	±.024
MICROINCHES	PREFERRED ☐	±.012	±.016	±.025	±.04	±.060

DRN. [illegible]	8/11/75	FIRST USED ON DD11-D
CHK'D D. Barry	8/21/75	digital
ENG. R. Ramey	8/21/75	TITLE
PROJ. ENG. R. Ramey	8/29/75	POWER HARNESS (BA11-K, BA11-L)
PROD. R. K. [illegible]	8/29/75	
NEXT HIGHER ASSY.		C-AD-7011164-0-0
SCALE 1/1		SIZE D, CODE JA, NUMBER 7011108-0-0, REV. B
SHEET 1 OF 1		DIST.

REV. B
DIN 7011108-0-0
SIZE D

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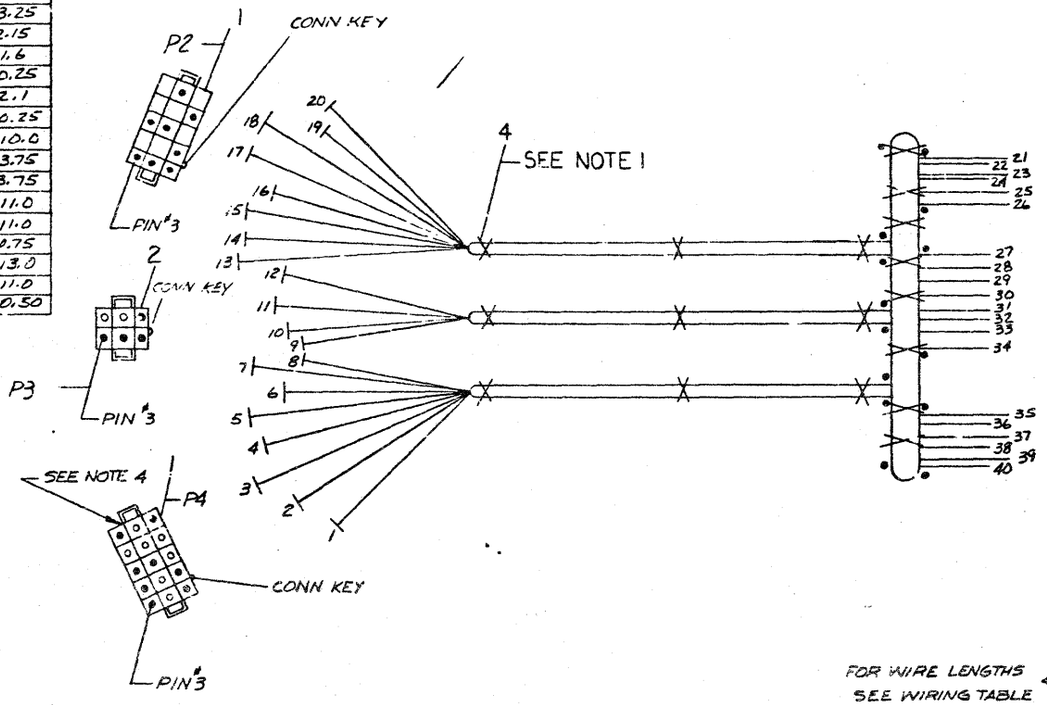
WIRING TABLE

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

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



FOR WIRE LENGTHS SEE WIRING TABLE

ITEM NO	DESCRIPTION	DWG./PART NO.	QTY
1	POWER HARNESS DECAL	7409872-2	16
AR	WIRE #14 AWG (BRN)	9107370-11	15
AR	WIRE #18 AWG, (GRN)	9107360-55	14
AR	WIRE #18 AWG, (WHT)	9107360-99	13
AR	WIRE #18 AWG (YEL)	9107360-44	12
AR	WIRE #18 AWG, (VIO)	9107360-77	11
AR	WIRE #18 AWG, (BRN)	9107360-11	10
AR	WIRE #18 AWG, (BLU)	9107360-66	9
AR	WIRE #18 AWG, (GRY)	9107360-88	8
AR	WIRE #14 AWG, (ORN)	9107370-33	7
AR	WIRE #14 AWG, (BLK)	9107370-00	6
AR	WIRE #14 AWG, (RED)	9107370-22	5
17	TIE WRAP	9007031	4
20	PIN MALE	1209378-01	3
1	CONN 6 PIN HOUSING	1209351-06	2
2	CONN 15 PIN HOUSING	1209351-15	1

DO NOT REDUCE

SCALE

0 IN — 6 IN — 12 IN

FOR MANUFACTURING PURPOSES ONLY

REVISIONS			
CHK	CHANGE NO.	REV.	
K.T	7011109-00001	A	P. Porreca 16 FEB 77
	D. BARRY		
	7011109-00002	B	P. Porreca 21 MAR 77
	P. PORRECA		

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL: SEE PARTS LIST

FINISH

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

ANGLES ± 30'	CLASS OF ACCURACY	NOMINAL DIMENSION RANGE INCHES				
		OVER 0 TO 3.0	OVER 3.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0	
SURFACE QUALITY 125 MICROINCHES	CHECK ONE					
	MEDIUM	± .004	± .008	± .012	± .016	± .020	± .06
	PREFERRED	± .012	± .016	± .020	± .024	± .030	± .1

DRN	[illegible]	11/3/75
CHK'D	S. [illegible]	12/4/75
ENG	R. Barry	12/5/75
PROJ. ENG	R. Barry	12/5/75
PROD	K. [illegible]	12/4/75

NEXT HIGHER ASSY.: C-AD-7012307-0-C

SCALE: 1/1

SHEET 1 OF 1

FIRST USED ON: DD11-DF, PF

digital

TITLE: POWER HARNESS (BA11-F)

SIZE	CODE	NUMBER	REV.
D	1A	7011109-0 C	B

DIST.

DEC FORM NO. DRD 100-C

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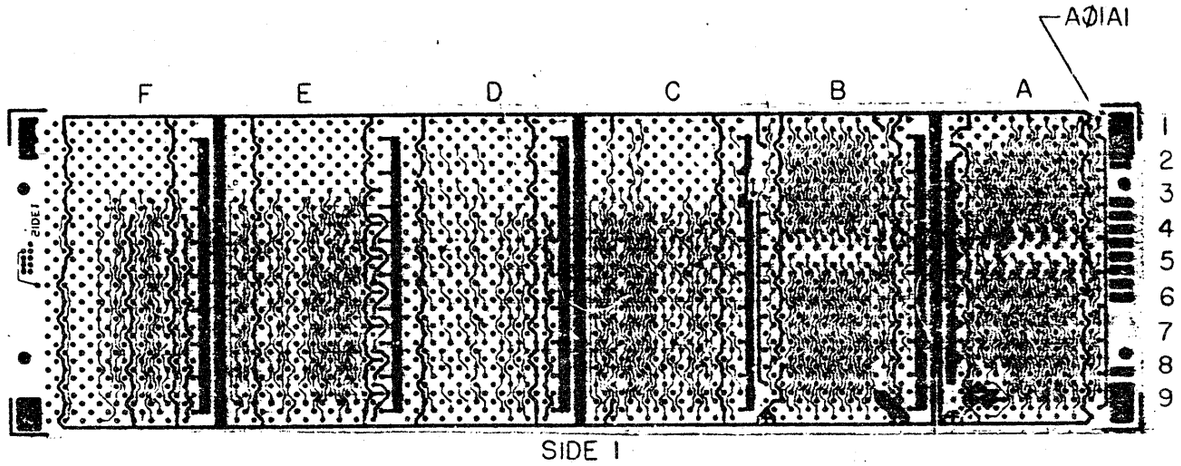
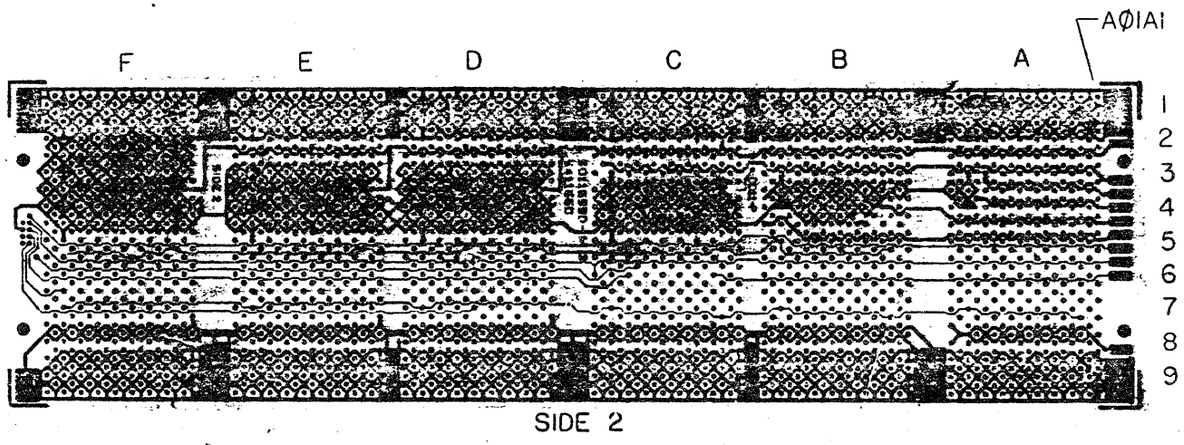
NOTES:





REF		AWT REV STATUS	A-WT-7011522-0	5
REF		MODULE ECO HISTORY	B-MH-5411660-0-6	4
REF		ASSY/DRILLING HOLE LAYOUT	D-AH-5411660-0-5	3
REF		X-Y COORDINATE HOLE LOCATION	X-CO-5411660-0-4	2
1		ETCHED CIRCUIT BOARD	5011659 .	1
QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.

PARTS LIST

FIRST USED ON OPTION MODEL

ETCH BOARD REV. D

IC TYPE	GND	+5V

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

IC PIN LOCATIONS

REV.	REVISIONS	CHANGE NO.	CHK	
C		5411660-00001		R. Barry 9/24/75
D		5411660-00002		R. BARRY
E		5411660-00003		R. BARRY 11-14-75
F		5411660-TW004		S HOYLE 30 May 79

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

SEMICONDUCTOR CONVERSION CHART

DRN. B. Hodgett DATE 6-20-75
CHK'D. D. Hong DATE 7/1/75
ENG. P. Barry DATE 7-2-75
PROJ. ENG. R. Barry DATE 7-2-75
PROD. DATE

NEXT HIGHER ASSY C-TA-7011521-0-0

SCALE 1/1

SHEET 1 OF 1

digital

TITLE CIRCUIT SCHEMATIC

SIZE D | CODE CS | NUMBER 5411660-0-1 | REV. F

DIST.

DEC FORM NO. DRD 135-B

5411660-0-1 F

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FIELD MAINTENANCE PRINT SET

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TABLE OF CONTENTS

FIELD MAINT. PRINT SET BA11-L	B-TC-BA11-L-1
BOX 5.25 BA11-L	E-UA-BA11-L-Ø
BOX 5.25 BA11-L(PARTS LIST)	A-PL-BA11-L-Ø
PRINT SET H777-B	MPØØØ16
CONSOLE ASSY. EXPANSION BOX	D-AD-7012540-0-0
INSTALLATION AID	E-AD-7012588-0-0
DRAWING DIRECTORY BA11-L	B-DD-BA11-L
SHIPPING LIST	A-PL-BA11-L-4
PRINT SET H777-VOL 2	MP 00309

UNIT VARIATIONS COVERED BY THIS PRINT SET	
BA11-LA	MANUFACTURING USE ONLY
BA11-LB	
BA11-LC	
BA11-LD	
BA11-LE	EXPANSION BOX
BA11-LF	
BA11-LH	
BA11-LJ	
BA11-LK	MANUFACTURING USE ONLY
BA11-LL	
BA11-LM	
BA11-LN	
BA11-LX	
BA11-LY	

BA11-L

Field Maintenance Print Set

Digital Equipment Corporation

PRINT SET ORDER NO.
MPØØØ18

REVISIONS		
DATE	CHG. NO.	REV.
APR-76	BA11-L-4	A
OCT-76	BA11-L-6	B
MAR-77	BA11-L-8	C
APR-77	BA11-L-9	D
JUL-77	BA11-L-11	E
DEC-77	BA11-L-14	F
OCT-80	BA11-L-19	H

USED ON OPTION/MODEL

11/04
11/34
11/24

SHEET 1 OF 1

DRN. D. HEALY	DATE 9/30/75	digital
CHK'D D. HEALY	DATE 9/30/75	TITLE: FIELD MAINTENANCE PRINT SET BA11-L
PROJ. ENG. R Barry	DATE 10-22-75	SIZE B / CODE TC / NUMBER BA11-L-1 / REV. H
FIELD SERV.	DATE 10-22-75	DIST.

EN-01324-16-NL78-1227

DRB 124

TW

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NOTES:

~~1. CUT ITEM #23 AS INDICATED BY VIEW A-A (ONLY EXCEPTION: ITEM #23 WILL MAKE TWO PIECES). TYP 6 PLACES. TWO ITEM #5 REQ'D.~~

~~2. USE ITEM #23 AS IS. NO REWORK IS REQ'D. TYP 6 ITEM #28 REQ'D.~~

3. ITEM #17 SERVICE LOOP SHOULD BE 24 INCHES.
4. BA11-LA,LB,LC,LD,LK,LL,LM AND LN (MANUFACTURING USE ONLY). BA11-LE,LF,LH AND LJ (BA11L EXPANSION BOX).
5. ADD CONSOLE FOR EXPANSION BOX ONLY.
6. ALTERNATE COLORS: POSITIONS 1,3,5,7 & 9 TO HAVE MAGENTA. POSITIONS 2,4,6, & 8 TO HAVE NATURAL.
7. HARDWARE FOR MOUNTING ITEM 5 (ENCLOSURE ASSEMBLY) TO CABINET

~~8. ITEM #34 TO BE USED AS TO TAKE UP ANY GAP PRESENT BETWEEN ENCLOSURE AND CABINET UPRIGHTS.~~

~~9. STRAIN RELIEF POWER CORD ON VARIATIONS THAT HAVE REMOVABLE AC CORD, AS SHOWN.~~

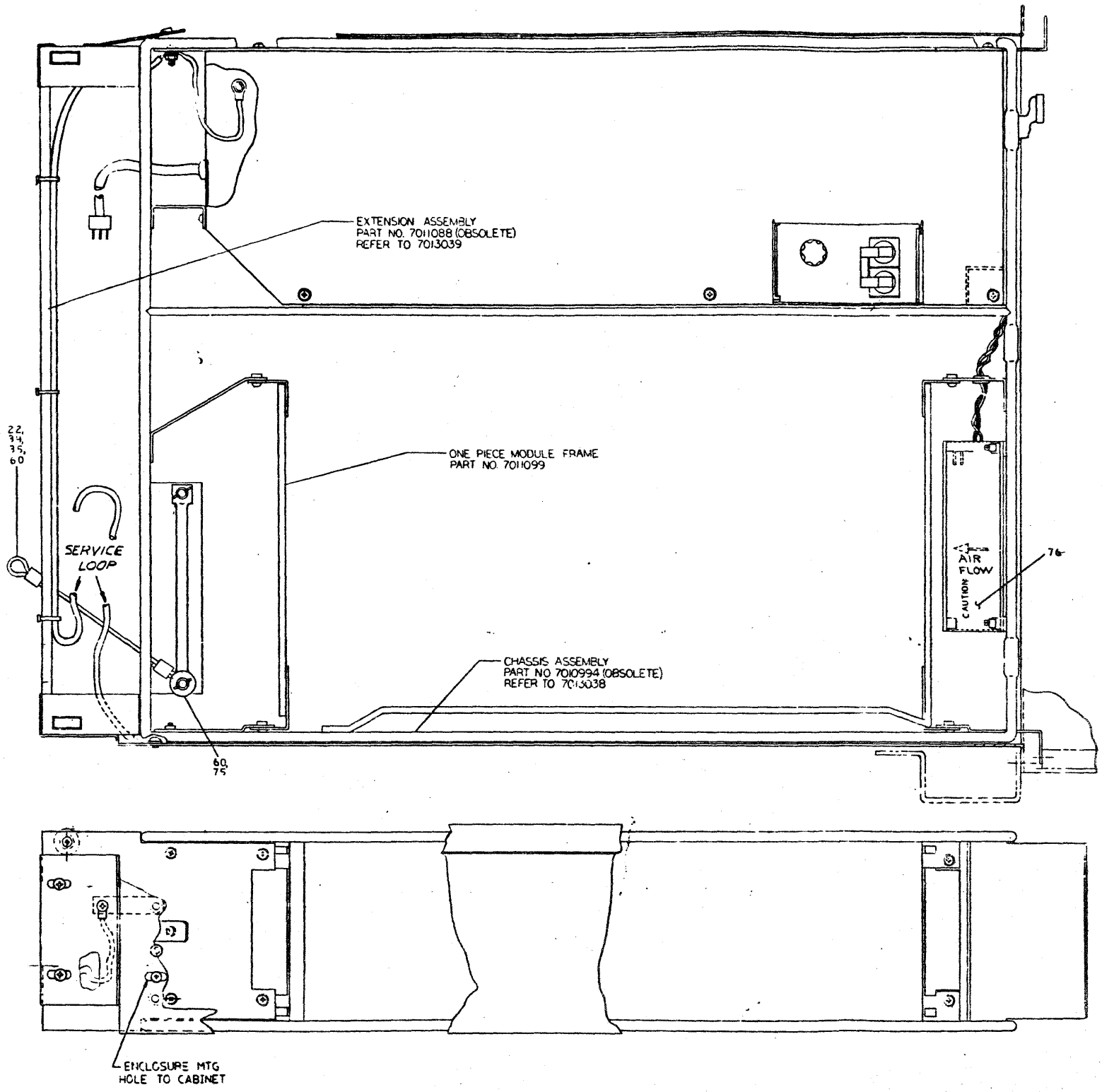
10. EXPANDER BOX VERSIONS BA11-LE,LF,LH & LJ CANNOT BE CONFIGURED WITH 4 OR 9 SLOT BACKPLANES THAT HAVE POWER HARNESS ROUTED ALONG BOTTOM (SLOT 9) A WIRE STRIPPING HAZARD WOULD EXIST IF THESE COMBINATIONS WERE CONFIGURED AS SUCH. EXAMPLES OF PROBLEMATIC BACKPLANE CONFIGURATIONS ARE: RK11-D, DQ11-AA, DA11-F, TM811, DD11-B, DQ11-AB, RH11, DH11, DB11-A, DJ11, VT48 & VT11.

NOTES CON'T ON SHEET 2

LEGEND	
PART NO.	VARIATION
BA11-LA	5.25 BOX + H777-AA 115V CORE + MOS
BA11-LB	5.25 BOX + H777-AB 230V
BA11-LC	5.25 BOX + H777-BA 115V MOS ONLY
BA11-LD	5.25 BOX + H777-BB 230V MOS ONLY
BA11-LE	5.25 BOX + H777-CA 115V + CONSOLE (CORE + MOS)
BA11-LF	5.25 BOX + H777-CB 230V + CONSOLE (CORE + MOS)
BA11-LH	5.25 BOX + H777-DA 115V + CONSOLE (MOS ONLY)
BA11-LJ	5.25 BOX + H777-DB 230V + CONSOLE (MOS ONLY)
BA11-LK	5.25 BOX + H777-CA 115V CORE + MOS
BA11-LL	5.25 BOX + H777-CB 230V CORE + MOS
BA11-LM	5.25 BOX + H777-DA 115V MOS ONLY
BA11-LN	5.25 BOX + H777-DB 230V MOS ONLY
BA11-LX	5.25 BOX + H777-UA P.S. (120V)
BA11-LY	5.25 BOX + H777-UB P.S. (240)

FOR PARTS LIST SEE K-PL-BA11-L-DBP

DRN		FIRST USED ON	11704
CHK'D		TITLE	BOX 5.25 BA11-L (230V/115V)
ENGR			
PROJ. ENG			
PROD'N			
NEXT HIGHER ASSY	B-DD-BA11-L		
SIZE	B	CODE	UA
NUMBER	BA11-L-0	REV	AB
SCALE	///		
SHEET	1 OF 2		
DIST.			



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

NOTES: (CON'T FROM SHEET 1)

11. ITEM NUMBER 59 IS A STIFFENING BRACKET AND MAY BE LEFT IN OR REMOVED AT FINAL DESTINATION AT USERS OPTION. IF LEFT IN IT WILL NOT INHIBIT ANY USER FUNCTIONS. ~~IF IS TO BE PACKED BEHIND THE PACKED MOUNTED IN FRAME BRACKET AND~~

12. ITEM #36 AND THE AC POWER CORD ARE TO BE SHIPPED LOOSE PIECE, AND INSTALLED AT SITE LOCATION.

13. ITEM #68 NOT SHOWN, IT IS USED IN SHIPPING ONLY.

14. LOCATE STIFFNER BRACKET (ITEM 59) HOLES THREADED INSERTS AND BUTT STIFFENER INTO THE CORNER. INSTALL ITEM 60 AND 62 AND TIGHTEN NUT ONLY TO FASTEN. DO NOT AT THIS TIME TRY TO TIGHTEN SCREW THREADED INSERT WILL FAIL.
STIFFENER ON RIGHT SIDE MOUNTS THE SAME WAY EXCEPT ITEM 8 IS NOW ITEM 4 AND ITEM 6 DOES NOT EXIST.

15. ITEM 7, P/N 1213013-00 5" DIA. FAN IS BEING REPLACED BY P/N 1217715-02 4 1/2" DIA FAN. OLD P/N CAN BE USED UNTIL STOCK IS DEPLETED.
HARDWARE FOR OLD FAN

QTY	P/N	DESCRIPTION
3	9006026-2	SCR, PHL FLAT HD 6-32 x .75L
3	1006560-0	NUT KEP #6-32
3	1006653	WASHER, FLAT

DRN	C. MARINI	9-3-75	
CHK'D	J. HEALY	9-30-75	
ENG			
PROJ. ENG.			
PROD			
NEXT HIGHER ASSY	B-00-BAII-L		
SCALE	///		

FIRST USED ON: 11104

TITLE: BOX 5.25 BAII-L (230V/115V)

SIZE E | CODE UA | NUMBER BAII-L-0 | REV 12

AUTOMATED BY PRTLST.3P(44)

P A R T S L I S T

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION LA	LB	LC	LD	LE	LF	LH	LJ	LK	LL	LM	LN
					VARIATION REVISION LEVEL:												
1	1	E-UA-H777-DA-0	H777 -DA		H777-BA EXCEPT +5V 32A,120V	0	0	0	0	0	0	1	0	0	0	1	0
2	2	E-UA-H777-DB-0	H777 -DB		H777-BB EXCEPT +5V 32A,240V	0	0	0	0	0	0	0	1	0	0	0	1
3	3	E-IA-7013038-0-0	7013038-00		CHASSIS ASSY	1	1	1	1	1	1	1	1	1	1	1	1
4	4	C-IA-7012653-0-0	7012653-00		RIGHT SIDE MODULE FRAME	1	1	1	1	1	1	1	1	1	1	1	1
5	5	D-AD-7011132-0-0	7011132-00		ENCLOSURE ,ASSY	1	1	1	1	1	1	1	1	1	1	1	1
6	6	D-IA-7013039-0-0	7013039-00		EXTENSION CHASSIS ASSY	1	1	1	1	1	1	1	1	1	1	1	1
7	7	SEE NOTE 15 (ON UA)	1217715-02		FAN,TUBE AXIAL 4.5" 120CFM 120V	1	1	1	1	1	1	1	1	1	1	1	1
8	8	C-IA-7012846-0-0	7012846-00		LEFT SIDE MODULE FRAME	1	1	1	1	1	1	1	1	1	1	1	1
9	9	BLANK				0	0	0	0	0	0	0	0	0	0	0	0
10	10	BLANK				0	0	0	0	0	0	0	0	0	0	0	0
11	11	BLANK				0	0	0	0	0	0	0	0	0	0	0	0
12	12		9006037-03		SCREW,MACH TRUSS PHIL 8-	11	11	11	11	15	15	15	15	11	11	11	11
13	13		9006634-00		WASHER,LOCK INTERNAL STEEL	14	14	14	14	14	14	14	14	14	14	14	14
14	14	BLANK				0	0	0	0	0	0	0	0	0	0	0	0
15	15	B-MD-7413846-0-0	7413846-00		BAR CABLE STRAIN RELIEF	1	1	1	1	1	1	1	1	1	1	1	1
16	16		9009711-00		NUT,WING 6-32X .50 WD ZINC	2	2	2	2	2	2	2	2	2	2	2	2
17	17	C-IA-7011412-0-0	7011412-03		CHASSIS GND CABLE (BA11-L)	1	1	1	1	1	1	1	1	1	1	1	1
18	18	C-IA-7011412-0-0	7011412-0F		CHASSIS GND CABLE (BA11-L)	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF
19	19	C-MD-7414963-0-0	7414963-00		BRKT SHIPPING & CAB MTG	2	2	2	2	2	2	2	2	2	2	2	2
20	20		9007015-00		GROMMET,ROUND RUBBER	2	2	2	2	2	2	2	2	2	2	2	2
21	21		9006565-00		NUT,HEX EXT TOOTH LCKWSHR 10-32	7	7	7	7	7	7	7	7	7	7	7	7
22	22		9007031-00		TIE,CABLE BUNDL.DIA 0- 3/4"=101	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
23	23		1211630-00		GUIDE,CARD ,POLMIDE,NATURAL	3	3	3	3	3	3	3	3	3	3	3	3
24	24	BLANK				0	0	0	0	0	0	0	0	0	0	0	0
25	25	E-UA-H777-CA-0	H777 -CA		H777-AA EXCEPT +5V 32A,120V	0	0	0	0	0	0	0	0	1	0	0	0
26	26	E-UA-H777-CB-0	H777 -CB		H777-AB EXCEPT +5V 32A,240V	0	0	0	0	0	1	0	0	0	1	0	0
27	27		9008072-00		WASHER,LOCK EXTERNAL STEEL	3	3	3	3	7	7	7	7	3	3	3	3
28	28	D-AD-7012540-0-0	7012540-00		CONSOLE ASSY EXPANDER BOX	0	0	0	0	1	1	1	1	0	0	0	0
29	29		1212405-04		GUIDE,CARD ,NYLON ,NATURAL	4	4	4	4	4	4	4	4	4	4	4	4
30	30		1212405-05		CARD GUIDE,NYLON	5	5	5	5	5	5	5	5	5	5	5	5

REVISION HISTORY

ENG	ECO NUMBER	REV
---	INITIAL	Z
CG	BA11-L-ML024	AA
CG	BA11-L-ML025	AB

BASIC PART NO: BA11

SECTION A OF B

SECTION.VARIATION INDEX
[A]LA,LB,LC,LD,LE,LF,
LH,LJ,LK,LL,LM,LN
[B]LX,LY
[C]
[D]
[E]
[F]

DRN: G. MARINI	DATE: 3-SEP-75	D I G I T A L
CHK'D: D. HEALY	DATE: 30-SEP-75	TITLE PARTS LIST BOX 5.25 BA11-L (230V/115V)
DES.ENG: R. BARRY	DATE: 2-OCT-75	DOCUMENT NUMBER
RESP.ENG.: R.K. PETERSON	DATE: 2-OCT-75	SIZE: K / CODE: PL / NUMBER: BA11-L-DBP / REV: AB
MFG.ENG.: R.K. PETERSON	DATE: 2-OCT-75	RELEASE DATE: 06-AUG-84
ASSEMBLY NUMBER: E-UA-BA11-L-0	TOP DOCUMENT NUMBER:	FILE NAME: ML25AB.PLS / EDIT #: 11

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AUTOMATED BY PRTLST.3P(44) — P A R T S L I S T — SHEET A2 OF A2

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION LA	LB	LC	LD	LE	LF	LH	LJ	LK	LL	LM	LN
					VARIATION REVISION LEVEL:												
31	31	BLANK				0	0	0	0	0	0	0	0	0	0	0	0
32	32		9006666-00		WASHER,FLAT SST	5	5	5	5	9	9	9	9	5	5	5	5
33	33	BLANK				0	0	0	0	0	0	0	0	0	0	0	0
34	34		9007786-00		RETAINER,U-NUT 10-32X	5	5	5	5	5	5	5	5	5	5	5	5
35	35		9006071-03		SCREW,MACH TRUSS PHIL 10-	11	11	11	11	11	11	11	11	11	11	11	11
36	36		9006035-03		SCREW,MACH TRUSS PHIL 8-	4	4	4	4	4	4	4	4	4	4	4	4
37	37	B-MD-7417606-0-0	7417606-00		SLEEVE ROLLER	2	2	2	2	2	2	2	2	2	2	2	2
38	38	B-MD-7417607-0-0	7417607-00		ROLLER	2	2	2	2	2	2	2	2	2	2	2	2
39	39	BLANK				0	0	0	0	0	0	0	0	0	0	0	0
40	40		9006690-00		WASHER,HELICAL SPLIT SST	2	2	2	2	2	2	2	2	2	2	2	2
41	41		9006561-00		NUT,HEX 8-32X .307AF SS/N	2	2	2	2	2	2	2	2	2	2	2	2
42	42		3700061-00		INSTR PKG COMPUTER 11/05/OLD STY	0	0	0	0	1	1	1	1	0	0	0	0
43	43		3700133-00		INSTR PKG COMPUTER INPLANT 1105	0	0	0	0	1	1	1	1	0	0	0	0
44	44	C-MD-7418077-0-0	7418077-00		3 POSITION CARD GUIDE	3	3	3	3	3	3	3	3	3	3	3	3
45	45	BLANK				0	0	0	0	0	0	0	0	0	0	0	0
46	46	E-UA-H777-BA-0	H777 -BA		11/04 POWER SUPPLY,MOS ONLY,NO +	0	0	1	0	0	0	0	0	0	0	0	0
47	47	E-UA-H777-BB-0	H777 -BB		11/04 POWER SUPPLY,MOS ONLY,NO +	0	0	0	1	0	0	0	0	0	0	0	0
48	48	E-UA-H777-AA-0	H777 -AA		BA11-L POWER SUPPLY,+5V 25A,+20V	1	0	0	0	0	0	0	0	0	0	0	0
49	49	E-UA-H777-AB-0	H777 -AB		240V H777-AA	0	1	0	0	0	0	0	0	0	0	0	0
50	50	BLANK				0	0	0	0	0	0	0	0	0	0	0	0
51	51	BLANK				0	0	0	0	0	0	0	0	0	0	0	0
52	52	BLANK				0	0	0	0	0	0	0	0	0	0	0	0
53	53	B-IA-7418258-0-0	7418258-00		GROUND STRAP	1	1	1	1	1	1	1	1	1	1	1	1
54	54	B-MD-7418259-0-0	7418259-00		SPACER INCLOSURE	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
55	55		9007035-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
56	56		9007083-00		CLAMP,CABLE,SCREW MTD. 3/8 "	0	0	0	0	1	1	1	1	1	1	1	1
57	57	A-PS-3613211-0-0	3613211-01		DECAL,CLEAR PREPRINTED CSA 1-1/4	1	1	1	1	1	1	1	1	1	1	1	1
58	58	A-DC-7416197-0-0	7416197-01		DECAL	1	1	1	1	1	1	1	1	1	1	1	1
59	59	C-MD-7419019-0-0	7419019-00		BRACKET, MODULE FRAME STIFFENING	2	2	2	2	2	2	2	2	2	2	2	2
60	60		9006668-00		WASHER,FLAT SST	6	6	6	6	6	6	6	6	6	6	6	6
61	61		9006040-03		SCREW,MACH TRUSS PHIL 8-	4	4	4	4	4	4	4	4	4	4	4	4
62	62		9006563-00		NUT,HEX EXT TOOTH LCKWSHR 8-32	4	4	4	4	4	4	4	4	4	4	4	4
63	63	BLANK				0	0	0	0	0	0	0	0	0	0	0	0
64	64	BLANK				0	0	0	0	0	0	0	0	0	0	0	0
65	65	BLANK				0	0	0	0	0	0	0	0	0	0	0	0
66	66		9009157-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
67	67		1212707-00		FILTER,AIR FOAM EXPAND 030PPI	0	0	0	0	1	1	1	1	0	0	0	0
68	68		9007032-00		TIE,CABLE BUNDL.DIA 0-1-3/4"=101	2	2	2	2	2	2	2	2	2	2	2	2
69	69	C-MD-7414962-0-0	7414962-00		BRKT FILTER SUPPORT	0	0	0	0	REF	REF	REF	REF	0	0	0	0
70	70	E-UA-H777-UA-0	H777 -UA		11/24 PS: +5V 32A,+15V 3A,-15V 3	0	0	0	0	0	0	0	0	0	0	0	0
71	71	E-UA-H777-UB-0	H777 -UB		11/24 PS: +5V 32A,+15V 3A,-15V 3	0	0	0	0	0	0	0	0	0	0	0	0
72	72		9006025-02		SCREW,MACH FLAT PHIL 6-	4	4	4	4	4	4	4	4	4	4	4	4
73	73		9009165-00		CLIP, FAN MOUNTING (12-05033 FAN	4	4	4	4	4	4	4	4	4	4	4	4
74	74	C-MD-7425811-0-0	7425811-00		BRACKET,SHIPPING,11/24	0	0	0	0	0	0	0	0	0	0	0	0
75	75		1215700-05		CABLE ASSY,NYLON, 5"LG	1	1	1	1	1	1	1	1	1	1	1	1
76	76		3621768-01		LABEL,ROTATING FAN BLADES	1	1	1	1	1	1	1	1	1	1	1	1
77	77		9009255-01		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
78	78		9009718-00		GROMMET,STRIP STYRENE	2	2	2	2	2	2	2	2	2	2	2	2

DIGITAL	TITLE	SECTION	SIZE	CODE	DOCUMENT NUMBER	REV
	BOX 5.25 BA11-L (230V/115V)	A OF B	X	PL	BA11-L-DBP	AB

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION LX	LY
					VARIATION REVISION LEVEL:		
1	1	E-UA-H777-DA-0	H777 -DA		H777-BA EXCEPT +5V 32A,120V	0	0
2	2	E-UA-H777-DB-0	H777 -DB		H777-BB EXCEPT +5V 32A,240V	0	0
3	3	E-IA-7013038-0-0	7013038-00		CHASSIS ASSY	1	1
4	4	C-IA-7012653-0-0	7012653-00		RIGHT SIDE MODULE FRAME	1	1
5	5	D-AD-7011132-0-C	7011132-00		ENCLOSURE ,ASSY	1	1
6	6	D-IA-7013039-0-0	7013039-00		EXTENSION CHASSIS ASSY	1	1
7	7	SEE NOTE 15 (ON UA)	1217715-02		FAN,TUBE AXIAL 4.5" 120CFM 120V	1	1
8	8	C-IA-7012846-0-0	7012846-00		LEFT SIDE MODULE FRAME	1	1
9	9	BLANK				0	0
10	10	BLANK				0	0
11	11	BLANK				0	0
12	12		9006037-03		SCREW,MACH TRUSS PHIL / 8-	12	12
13	13		9006634-00		WASHER,LOCK INTERNAL STEEL	12	12
14	14	BLANK				0	0
15	15	B-MD-7413846-0-0	7413846-00		BAR CABLE STRAIN RELIEF	1	1
16	16		9009711-00		NUT,WING 6-32X .50 WD ZINC	2	2
17	17	C-IA-7011412-0-0	7011412-03		CHASSIS GND CABLE (BA11-L)	1	1
18	18	C-IA-7011412-0-0	7011412-0F		CHASSIS GND CABLE (BA11-L)	REF	REF
19	19	C-MD-7414963-0-0	7414963-00		BRKT SHIPPING & CAB MTG	0	0
20	20		9007015-00		GROMMET,ROUND RUBBER	2	2
21	21		9006565-00		NUT,HEX EXT TOOTH LCKWSHR 10-32	5	5
22	22		9007031-00		TIE,CABLE BUNDL,DIA 0- 3/4"=101	A/R	A/R
23	23		1211630-00		GUIDE,CARD ,POLMIDE,NATURAL	5	5
24	24	BLANK				0	0
25	25	E-UA-H777-CA-0	H777 -CA		H777-AA EXCEPT +5V 32A,120V	0	0
26	26	E-UA-H777-CB-0	H777 -CB		H777-AB EXCEPT +5V 32A,240V	0	0
27	27		9008072-00		WASHER,LOCK EXTERNAL STEEL	3	3
28	28	D-AD-7012540-0-0	7012540-00		CONSOLE ASSY EXPANDER BOX	0	0
29	29		1212405-04		GUIDE,CARD ,NYLON ,NATURAL	4	4
30	30		1212405-05		CARD GUIDE,NYLON	5	5

REVISION HISTORY		
ENG	ECO NUMBER	REV
---	INITIAL	Z
CG	BA11-L-ML024	AA
CG	BA11-L-ML025	AB

BASIC PART NO: BA11

SECTION B OF B

SECTION.VARIATION INDEX
[A]LA,LB,LC,LD,LE,LF,
LH,LJ,LK,LL,LM,LN
[B]LX,LY
[C]
[D]
[E]
[F]

DRN: G. MARINI	DATE: 3-SEP-75	D I G I T A L
CHK'D: D. HEALY	DATE: 30-SEP-75	TITLE PARTS LIST BOX 5.25 BA11-L (230V/115V)
DES.ENG: R. BARRY	DATE: 2-OCT-75	DOCUMENT NUMBER
RESP.ENG.: R.K. PETERSON	DATE: 2-OCT-75	SIZE: K / CODE: PL / NUMBER: BA11-L-DBP / REV: AB
MFG.ENG.: R.K. PETERSON	DATE: 2-OCT-75	RELEASE DATE: 06-AUG-84
ASSEMBLY NUMBER: E-UA-BA11-L-0	TOP DOCUMENT NUMBER:	FILE NAME: ML25AB.PLS / EDIT #: 11

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P A R T S L I S T

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER LX	QTY PER LY	VARIATION
					VARIATION REVISION LEVEL:			
31	31	BLANK				0	0	
32	32		9006666-00		WASHER,FLAT SST	5	5	
33	33	BLANK				0	0	
34	34		9007786-00		RETAINER,U-NUT 10-32X	7	7	
35	35		9006071-03		SCREW,MACH TRUSS PHIL 10-	11	11	
36	36		9006035-03		SCREW,MACH TRUSS PHIL 8-	4	4	
37	37	B-MD-7417606-0-0	7417606-00		SLEEVE ROLLER	2	2	
38	38	B-MD-7417607-0-0	7417607-00		ROLLER	2	2	
39	39	BLANK				0	0	
40	40		9006690-00		WASHER,HELICAL SPLIT SST	2	2	
41	41		9006561-00		NUT,HEX 8-32X .307AF SS/N	2	2	
42	42		3700061-00		INSTR PKG COMPUTER 11/05 OLD STY	0	0	
43	43		3700133-00		INSTR PKG COMPUTER INPLANT 1105	0	0	
44	44	C-MD-7418077-0-0	7418077-00		3 POSITION CARD GUIDE	3	3	
45	45	BLANK				0	0	
46	46	E-UA-H777-BA-0	H777 -BA		11/04 POWER SUPPLY,MOS ONLY,NO +	0	0	
47	47	E-UA-H777-BB-0	H777 -BB		11/04 POWER SUPPLY,MOS ONLY,NO +	0	0	
48	48	E-UA-H777-AA-0	H777 -AA		BA11-L POWER SUPPLY,+5V 25A,+20V	0	0	
49	49	E-UA-H777-AB-0	H777 -AB		240V H777-AA	0	0	
50	50	BLANK				0	0	
51	51	BLANK				0	0	
52	52	BLANK				0	0	
53	53	B-IA-7418258-0-0	7418258-00		GROUND STRAP	1	1	
54	54	B-MD-7418259-0-0	7418259-00		SPACER INCLOSURE	4	4	
55	55		9007035-00		*** THIS ITEM IS NOT USED ***	-	-	
56	56		9007083-00		CLAMP,CABLE,SCREW MTD. 3/8 "	1	1	
57	57	A-PS-3613211-0-0	3613211-01		DECAL,CLEAR PREPRINTED CSA 1-1/4	1	1	
58	58	A-DC-7416197-0-0	7416197-01		DECAL	1	1	
59	59	C-MD-7419019-0-0	7419019-00		BRACKET, MODULE FRAME STIFFENING	2	2	
60	60		9006668-00		WASHER,FLAT SST	6	6	
61	61		9006040-03		SCREW,MACH TRUSS PHIL 8-	4	4	
62	62		9006563-00		NUT,HEX EXT TOOTH LCKWSHR 8-32	4	4	
63	63	BLANK				0	0	
64	64	BLANK				0	0	
65	65	BLANK				0	0	
66	66		9009157-00		*** THIS ITEM IS NOT USED ***	-	-	
67	67		1212707-00		FILTER,AIR FOAM EXPAND 030PPI	0	0	
68	68		9007032-00		TIE,CABLE BUNDL.DIA 0-1-3/4"=101	2	2	
69	69	C-MD-7414962-0-0	7414962-00		BRKT FILTER SUPPORT	0	0	
70	70	E-UA-H777-UA-0	H777 -UA		11/24 PS: +5V 32A,+15V 3A,-15V 3	1	0	
71	71	E-UA-H777-UB-0	H777 -UB		11/24 PS: +5V 32A,+15V 3A,-15V 3	0	1	
72	72		9006025-02		SCREW,MACH FLAT PHIL 6-	4	4	
73	73		9009165-00		CLIP, FAN MOUNTING (12-05033 FAN	4	4	
74	74	C-MD-7425811-0-0	7425811-00		BRACKET,SHIPPING,11/24	2	2	
75	75		1215700-05		CABLE ASSY,NYLON, 5"LG	1	1	
76	76		3621768-01		LABEL,ROTATING FAN BLADES	1	1	
77	77		9009255-01		LABEL, POWER SUPPLY, 2-7/8" LG X	1	1	
78	78		9009718-00		GROMMET,STRIP STYRENE	2	2	

DIGITAL	TITLE	SECTION	SIZE	CODE	DOCUMENT NUMBER	REV
	BOX 5.25 BA11-L (230V/115V)	B OF B	K	PL	BA11-L-DBP	AB

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FIELD MAINTENANCE PRINT SET

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TABLE OF CONTENTS

FIELD MAINT. PRINT SET H777-0	B-TC-H777-0-1
POWER SUPPLY H777-0 SH1	E-UA-H777-0-0
+5V REGULATOR ASSY	D-AD-7011073-0-0 *
BOARD, POWER DISTRIBUTION H777	D-CS-5411586-0-1
H777 +5V REGULATOR	D-CS-5411597-0-1 *
AC INPUT ASSY	D-AD-7011075-0-0
MOS REGULATOR H777	D-CS-5411601-0-1
CORE REGULATOR H777	D-CS-5411599-0-1
POWER SUPPLY H777-0 (PL)	A-PL-H777-0-0

* For 7011073-0-0 Rev D and higher use 54-12667

UNIT VARIATIONS COVERED BY THIS PRINT SET
H777-BA (MOS ONLY)
H777-BB (MOS ONLY)
H777-AA (CORE/MOS)
H777-AB (CORE/MOS)

H777-0 VOL.1

Field Maintenance Print Set

Digital Equipment Corporation

PRINT SET ORDER NO.
MP00016

REVISIONS	REV.	CHG. NO.	DATE
	D	H777-2	JAN-77
REVISED & REDRAWN	E	H777-TW7	JAN 80

USED ON OPTION/MODEL	
BA11-LA	
BA11-LB	
BA11-LC	
BA11-LD	
BA11-LE	
BA11-LF	
BA11-LH	
BA11-LJ	

SHEET 1 OF 1

DRN.	D. HEALY	DATE 9/30/75
CHK'D	D. HEALY	DATE 9/30/75
PROJ. ENG.	R. BARRY	DATE 10/22/75
FIELD SERV.	[signature]	DATE 27-Jan-77

digital

TITLE: FIELD MAINTENANCE SET H777-0

SIZE	CODE	NUMBER	REV.
B	TC	H777-0-1	E
DIST.			

TW

EN-01124-16-N676-(3277)

DRB 124

WIRE TABLE

ITEM NO	DESCRIPTION AWG	COLOR	FROM CONNECTION	WITH	TO ITEM	TO CONNECTION	WITH	REMARKS
12 OR 13	14	BLK	—	—	30 OR 31	CB1-(1) LINE	—	
	14	WHT	—	—	30 OR 31	CB1-2(2) LINE	—	
13	14	GRN	—	—	1	GND CHASSIS	6	
4 OR 5	14	BLU	T1-5	—	8	J1-7 (BD2)	—	
	TRPL	BLU/BLK	T1-6	—	8	J1-6 (BD2)	—	
3 OR 4	TWP	BLU	T1-7	—	8	J1-8 (BD2)	—	
	18	GRY	—	—	8	J1-4 (BD1)	—	
	TWP	BLK	—	—	8	J1-5 (BD1)	—	
3 OR 4	18	WHT	—	—	4	FAN-1	—	
	TWP	BLK	—	—	4	FAN-2	—	
30 OR 6	14	GRN/YEL	EMI-3 (REF)	—	8	GND CHASSIS	6	
60	14	GRN/YEL	GND CHASSIS	6				CONSOLE GND
27	14	GRN/YEL	GND. CHASSIS	6				CHASSIS GND
	14	BLK	ITEM # 29	—	8	J1-3 (BD2)	—	FROM CORE REG
	14	ORN	ITEM # 29	—	8	J1-2 (BD2)	—	FROM CORE REG
	14	BRN	ITEM # 29	—	8	J1-1 (BD2)	—	FROM CORE REG

H777-AA, H777-AB ONLY

LEGEND

PART NO	VARIATION
H777-BA	P.S. MOS ONLY 115V
H777-BB	P.S. MOS ONLY 230V
H777-AA	P.S. CORE/MOS 115V
H777-AB	P.S. CORE/MOS 230V

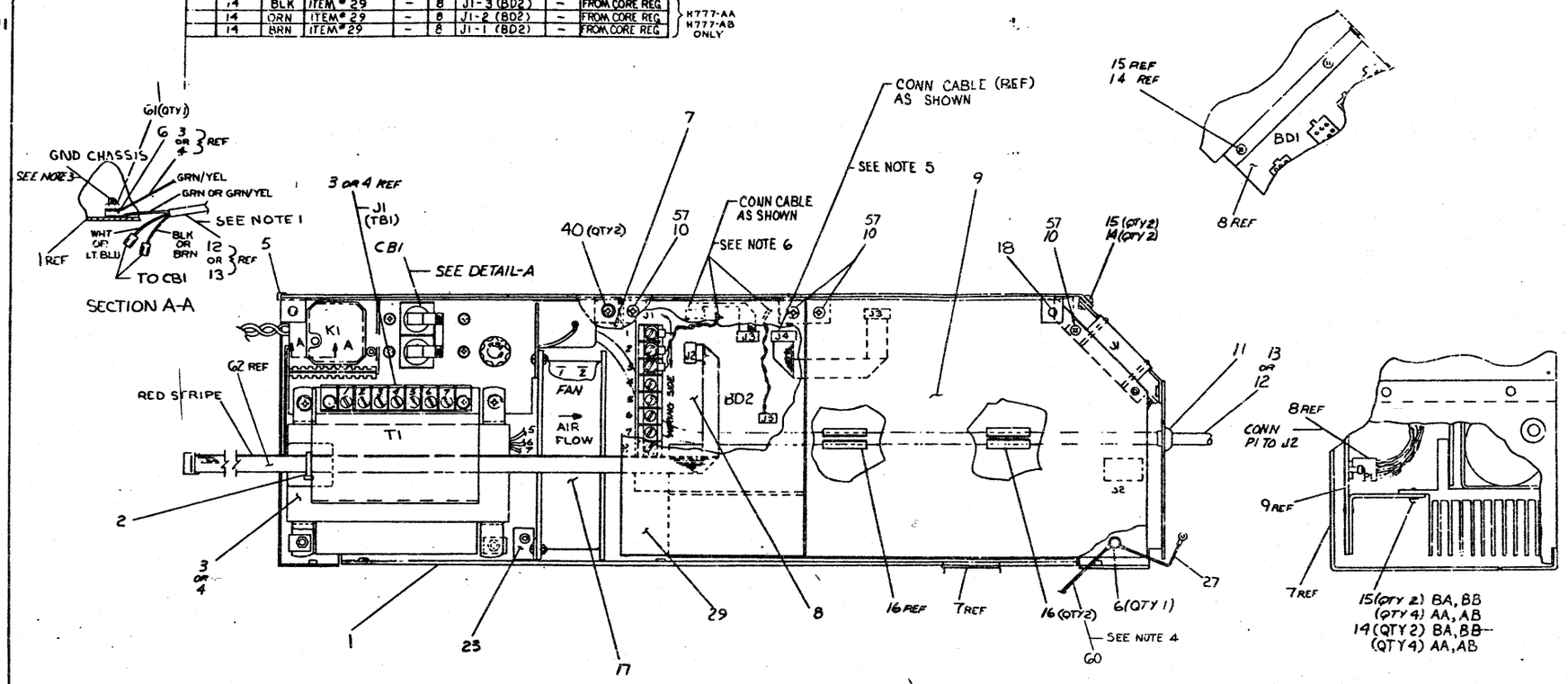
CB-1

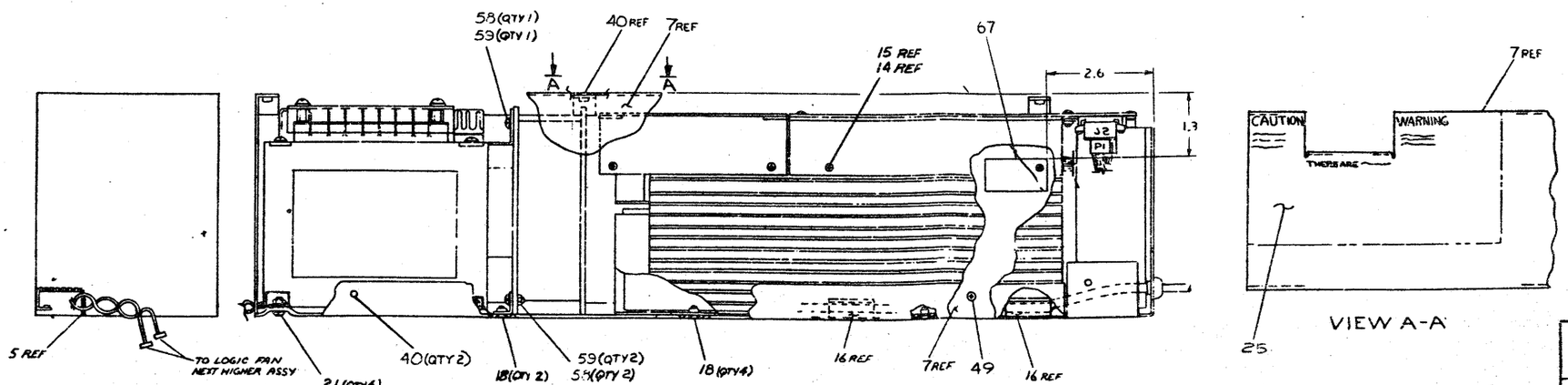
LINE LOAD

DETAIL-A
WIRING SIDE OF CKT BREAKER PART OF ITEM # 10

NOTES:

1. MAKE 5 INCH SERVICE LOOP AT HOOKUP END.
2. APPLY SELF STICK MS SHEET (ITEM # 28) TO UNDER SIDE OF POWER SUPPLY COVER IN AREA OF HEAT SINKS (CORE & MOS REGS).
3. APPLY SELF STICK ITEM 26 BESIDE THIS GND STUD.
4. ITEM 60 IS A GND CABLE TO GND THE FRONT PANEL CASTINGS FOR MOS AND CORE REGULATORS.
5. CABLE PART OF ITEM # 9.
6. CABLE 9 WIRES ARE PART OF ITEM # 29





VIEW A-A

CAUTION:
UNIT ASSEMBLY FOR OPTIONS AA, AB, BA, AND BB ONLY

SEE SHEET 2 FOR OPTIONS CA, CB, DA, AND DB

SEE H-H777-0-08P FOR PARTS LIST

REVISED	BY	CHK	APP	DATE
6	H777-00008	L		1-17-78
5	H777-00004	L		DEC. 77
4	H777-00007	M		2-7-77
3	H777-00006	M		1-24-77
2	H777-00005	M		1-24-77
1	H777-00003	M		1-17-77

DRAWN	CHK'D	ENG	PROJ ENG	PROD	APP'D
B. COVENTMANCHE					
A. BARON					
W. BAUSHA					

DO NOT SCALE DWG

MATERIAL: SEE PARTS LIST

FIRST USED ON: BAIL-L

TITLE: POWER SUPPLY ASS'Y (H777)

SIZE	CODE	NUMBER	REV
E	UA	H777-0-0	S

SCALE: NONE

SHEET 1 OF 2

WIRE TABLE

ITEM NO	DESCRIPTION AWG	COLOR	FROM CONNECTION	WITH	ITEM	TO CONNECTION	WITH	REMARKS
53	14	BLU	ITEM 35	SLDR	26	EMI LINE -1	—	AC LINE CORD
52	14	BRN	ITEM 35	SLDR	36	EMI LINE -2	—	AC LINE CORD
54	14	GRN/YEL	ITEM 35	SLDR	31	AC GND CHASSIS	—	AC LINE CORD
4 OR 5	18 TRPL TW	BLU	T1-5	—	37	J1-7 (BD2)	—	SEC VOLTAGE
		BLU/WHT	T1-6	—	37	J1-6 (BD2)	—	
		BLU	T1-7	—	37	J1-8 (BD2)	—	
3 OR 4	18 TWP	GRY	—	—	37	J1-4 (BD1)	—	TO RELAY COIL
		BLK	—	—	37	J1-5 (BD1)	—	
3 OR 4	18 TWP	WHT	—	—	4	FAN-1	—	POWER SUPPLY FAN POWER
		BLK	—	—	4	FAN-2	—	
28	14	GRN/YEL	GND CHASSIS *2	6	—	—	—	CONSOLE GND
27	14	GRN/YEL	GND CHASSIS *1	6	—	—	—	CHASSIS GND
	14	BLK	ITEM *29	—	31	J1-3 (BD2)	—	FROM CORE REG (H777-CA H777-CB ONLY)
	14	ORN	ITEM *29	—	37	J1-2 (BD2)	—	FROM CORE REG (H777-CA H777-CB ONLY)
	14	BRN	ITEM *29	—	37	J1-1 (BD2)	—	FROM CORE REG (H777-CA H777-CB ONLY)
42	14 TWP	BRN	EMI-2 LOAD	41		CB(+2) LINE	41	
		BLU	EMI-1 LOAD	41		CB(+1) LINE	41	
					65	J1-3 (BD2)	—	FROM ±15 (H777-UA H777-UB ONLY)
					65	J1-2 (BD2)	—	FROM ±15 (H777-UA H777-UB ONLY)
					65	J1-1 (BD2)	—	FROM ±15 (H777-UA H777-UB ONLY)

LEGEND

PART NO	VARIATION
H777-DA	P.S. MOS ONLY 115V
H777-DB	P.S. MOS ONLY 230V
H777-CA	P.S. CORE/MOS 115V
H777-CB	P.S. CORE/MOS 230V
H777-UA	P.S. ± 15V/MOS 115V
H777-UB	P.S. ± 15V/MOS 230V

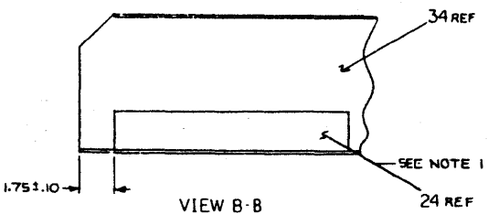
CBI

LINE LOAD

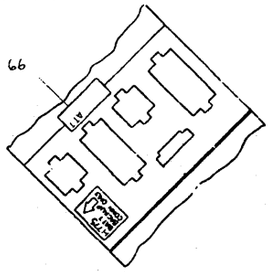
DETAIL-A
WIRING SIDE OF CKT BREAKER PART OF ITEM *10

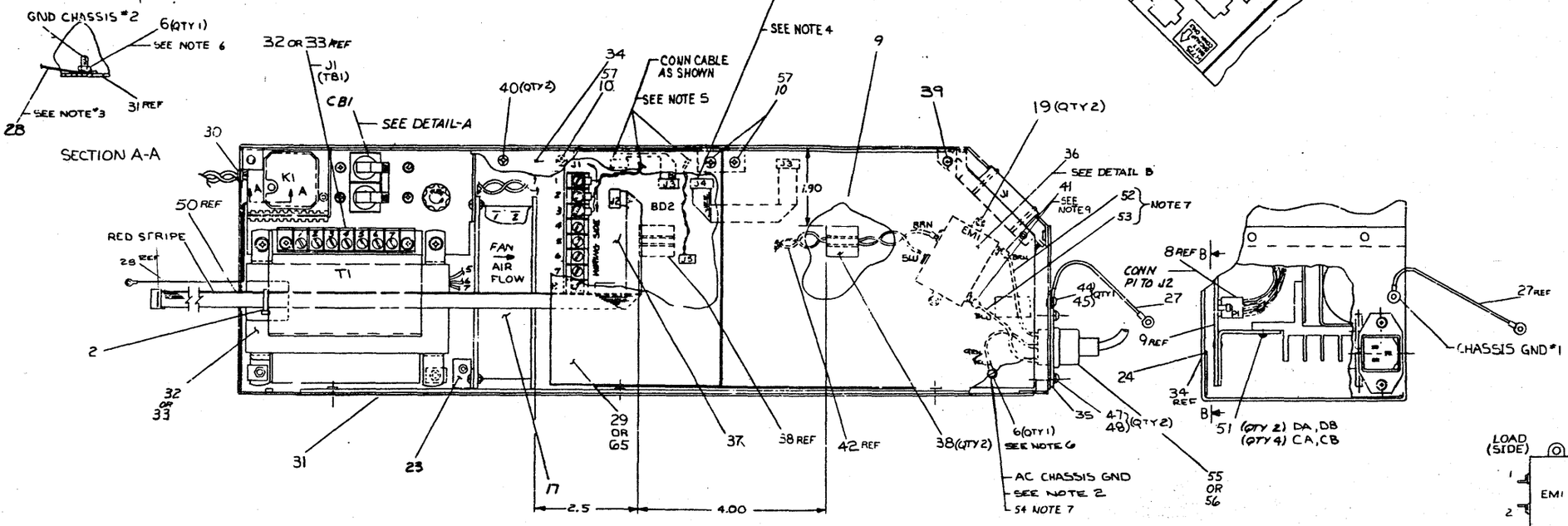
NOTES:

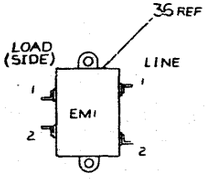
1. APPLY SELF STICK MS SHEET (ITEM *24) TO UNDER SIDE OF POWER SUPPLY COVER IN AREA OF HEAT SINKS (CORE, MOS REGS) ± 15 REGS)
2. APPLY SELF STICK ITEM 26 BESIDE THIS GND STUD.
3. ITEM 26 IS A GND CABLE TO GND THE FRONT PANEL CASTINGS FOR MOS AND CORE REGULATORS.
4. CABLE PART OF ITEM *9.
5. CABLE & WIRES ARE PART OF ITEM *29 OR *65.
6. ITEM *6 (METRIC NUT M4) CAN BE USED AS A REPLACEMENT IN FIELD IF NECESSARY.
7. INSTALL ITEM 41 OVER SOLDER ENDS PRIOR TO SOLDERING
8. POSITION ITEM *64 PARALLEL WITH, AND THE TOP EDGE ON THE SAME PLANE AS, THE TOP EDGE OF ITEM *43.
9. ADD SHRINK TUBING OVER EXPOSED PART OF FASTON CONNECTOR.



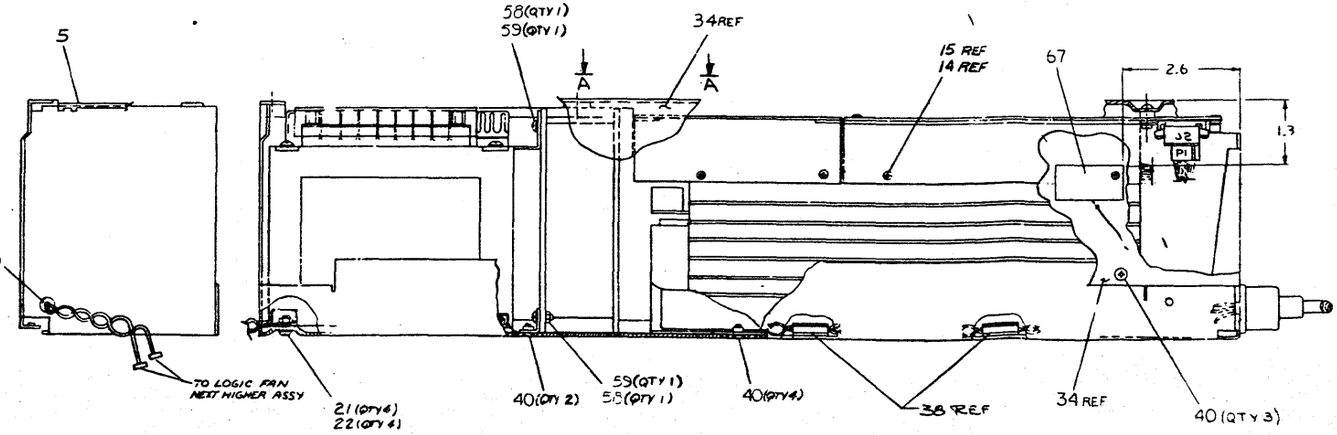
VIEW B-B

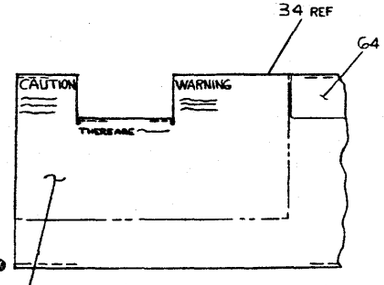






DETAIL B





VIEW A-A

CAUTION

UNIT ASSEMBLY FOR OPTIONS: CA, CB, DA, AND DB, UA, AND UB ONLY.

SEE SHEET 1 FOR OPTIONS AA, AB, BA, AND BB.

OFF SHEET PARTS LIST SEE: K-PL-H777-0.DBP

TITLE	POWER SUPPLY ASSY (H777)
FIRST USED ON	BA11-L
MATERIAL	SEE PARTS LIST
SCALE	NONE
SHEET	2 OF 2
SIZE	B
CODE	UA
NUMBER	H777-0-0
REV	L

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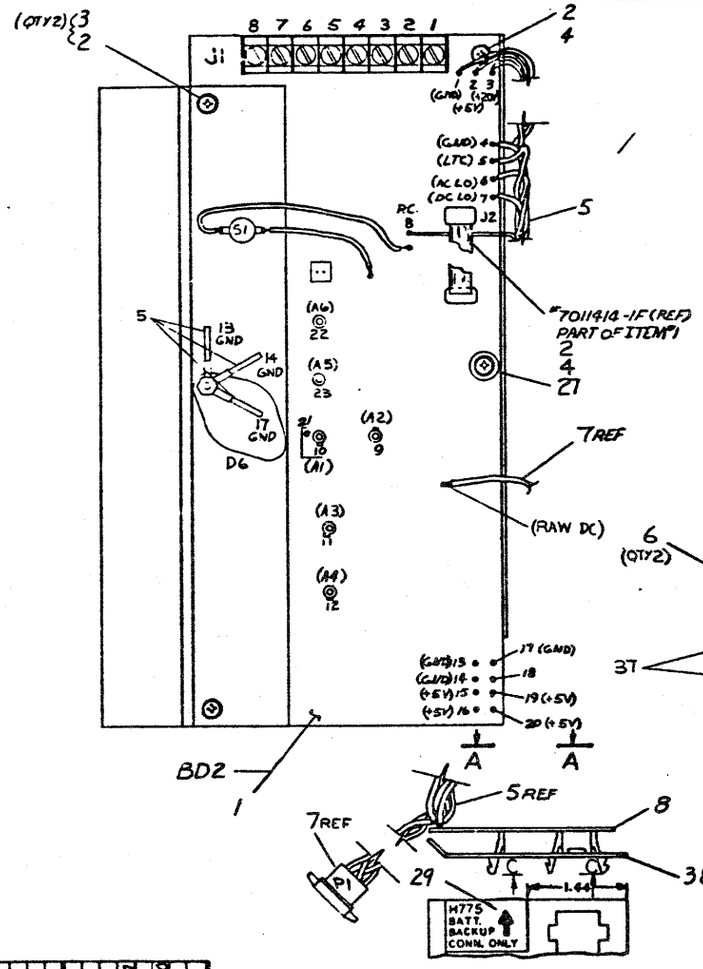
WIRE CHART

ITEM NO	DESCRIPTION AWG	DESCRIPTION COLOR	FROM POINT NO	FROM CONN	TO POINT NO	TO CONN
5	20	WHT	1	BD2-8	18	BD1-15
	14	BRN	2	2	9	1
	14	BLK	3	1	12	5
	14	ORN	4	3	13	7
	20	BRN	5	5	19	14
	20	BLK	6	4	20	16
	20	YEL	7	6	16	12
	20	VIO	8	7	17	13
	14	BLK	30	BD2-17	10	BD1-3
5	14	BLK	28	BD2-13	11	BD1-4
	14	RED	29	15	14	9
	14	RED	26	19	15	10
	14	BLK	25	18	21	17
	14	RED	24	16	22	19
	14	RED	27	BD2-20	23	BD1-20
7	18	BLU	1	BD1-21	* 11	—
	14	BLK	2	BD1-18	* 8	—
	18	RED	3	BD1-11	* 14	—
30	14	RED	—	BD2-22	—	C2 (+)
7	18	GRY	4	BD1-8	* 3	—
	18	WHT	5	BD1-6	* 10	—
	14	RED	6	BD2-21	* 13	—
	18	GRN	7	BD1-2	12	—
25	14	GRN	—	C1(+)	—	C2(+)
25	14	GRN	—	C1(-)	—	C2(-)
23	14	RED	—	BD2-10	—	C1(+)
24	14	BLK	—	BD2-9	—	C1(-)
22	—	BARE	—	—	—	BD2-11
22	—	BARE	—	—	—	BD2-12
31	14	BLK	—	BD2-23	—	C2(-)

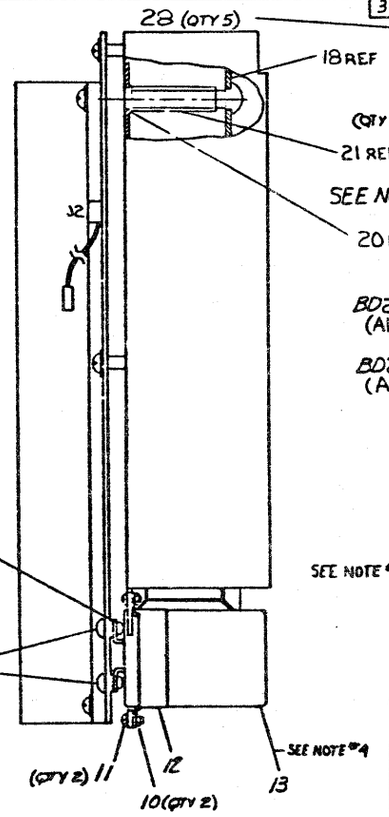
21, 20, 19 } QTY 2

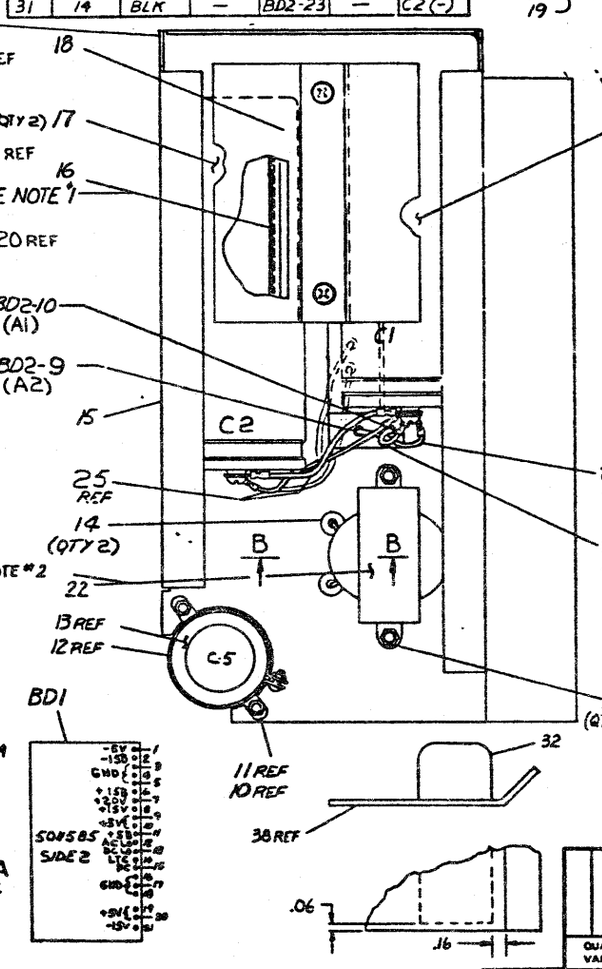
NOTES:

1. USE ITEM #16 (GROMMET) TO COVER RAW METAL EDGES UNDER CAPACITORS.
2. LEADS FROM ITEMS #22, 23 & 24 ARE TO BE CUT FLUSH WITH TOP OF CLAMPS ON ITEM #1. A1, A2, A3 & A4
3. * ASTERISK INDICATES THAT THESE COMN. ALREADY HAVE BEEN MADE ON PLUG P1 ON HARNESS D-IA-7011560-0-0 THEY ARE SHOW FOR REF ONLY.
4. ITEMS #17 & #13 ARE TO HAVE THEIR ELECTRICAL CONNECTIONS TORQUED TO 12 IN-LBS (-0, +10) IN-LBS.
5. BRING SCREW TO A NO SLACK POSITION, THEN TIGHTEN WITH 1/2 TO 3/4 TURN ONLY.
6. ITEMS #33 AND #34 ARE NOT SHOWN.

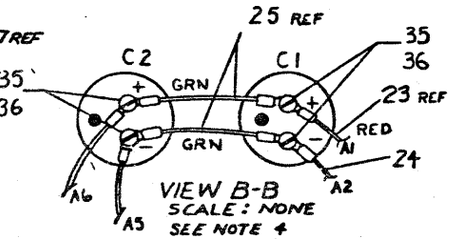


VIEW C-C





VIEW A-A
SCALE: NONE



VIEW B-B
SCALE: NONE
SEE NOTE 4

FOR PARTS LIST SEE K-PL-7011073-0-DBP.

	DESCRIPTION	DWG/PART NO.	ITEM NO.
1	DECAL	A-DC-7416911-0-01	28
1	WASHER NYLON #6	9006707	27
2	NUT KEPS #8-32	9006563	26
2	JUMPER (GRN)	B-IA-7011800-0-0	25
1	JUMPER (BLK)	B-IA-7011802-0-0	24
1	JUMPER (RED)	B-IA-7011801-0-0	23
1	CHOKE	16/2584	22
2	SPACER HEX #8-32 X 1.38L	9008258	21
2	WASHER INT TOOTH LOCK #8	9006634	20
2	SCR PHIL HD PAN #8-32 X .50L	9006037-1	19
1	CLAMP CAPACITOR	C-MD-7611021-0-0	18
2	CAPACITOR .2 MFD 50V	1010702	17
A/R	GROMMET CATERPILLAR	9007035	16
1	BRACKET CAPACITOR	E-IA-7413743-0-0	15
2	GROMMET RUBBER	9007017	14
1	CAPACITOR 3900 MF/6.8V (65)	1012790	13
1	CLAMP CAPACITOR	9009052	12
2	SCR PHIL PAN HD #6-32X.25L	9006020-1	11
2	NUT KEPS #6-32	9008185	10
1	BRACKET COMN	D-IA-7413752-0-0	9
1	BOARD, PWR DISTR, H777	DCS-5011586-0-1	8
1	HARNESS 20 WDS REG PWR DST	D-IA-7011562-0-0	7
2	WASH, .375 O.D.X.167 IDX.036	9006660	6
1	HARNESS H777 +5V REG	D-IA-7011415-0-0	5
2	SCR PHIL HD PAN #6-32 X .31L	9006021-1	4
2	SCR PHIL HD PAN #6-32 X .50L	9006014-1	3
3	WASHER, INT TOOTH LOCK #6	9006633	2
1	H777+5V REGULATOR	DCS-5011597-0-1	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

REVISIONS	CHG	RANGE NO.	REV.
	1/1	7011073-00001	A
	1/1	7011073-00002	B
		H777-00002	C
		H777-00003	D

R HANNY 11-25-75
B COURTEMANCHE 11-25-75
B COURTEMANCHE 12-2-75
J DREW 12-2-75

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL —

FINISH —

DRAWN	R HANNY	11-25-75
CHK'D	D Stanley	11-25-75
ENG	R Hanny	9-25-75
PROJ. ENG		9-25-75
PROD.		1-16-76

NEXT HIGHER ASSY. D-IA-H777-0-0

SCALE —

SHEET 1 OF 1

FIRST USED ON H777

TITLE +5V REG ASSY

SIZE D | CODE AD | NUMBER 7011073-0-0 | REV D

DIST.

DEC 7011073-0-0 D

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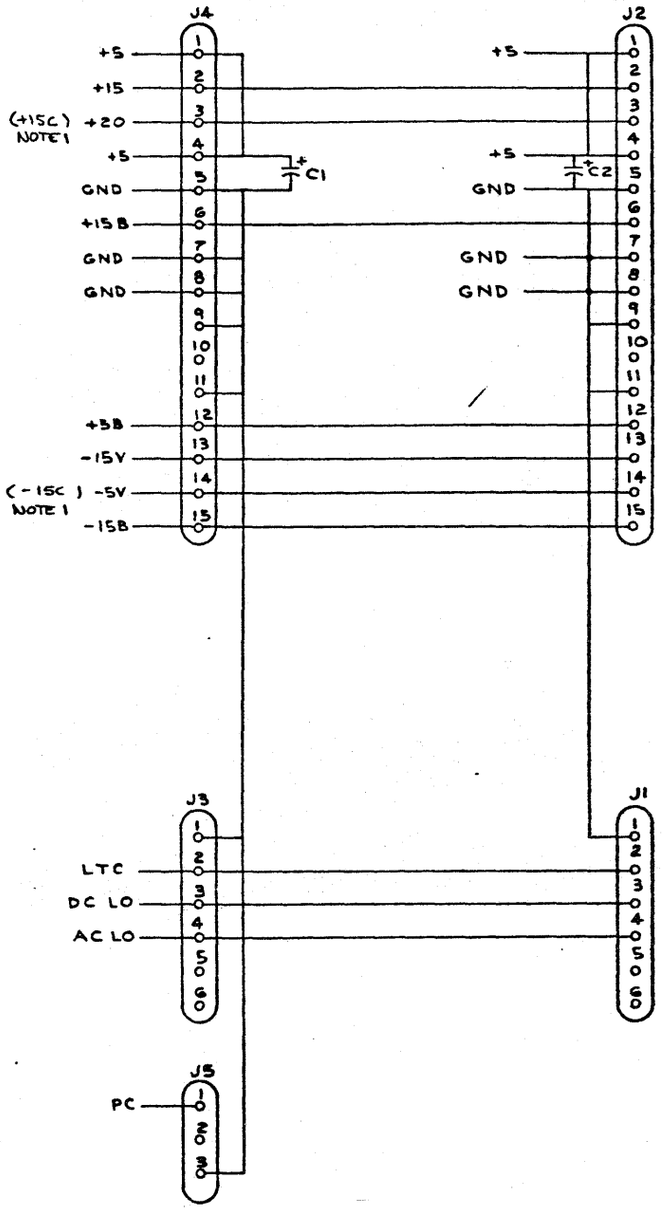
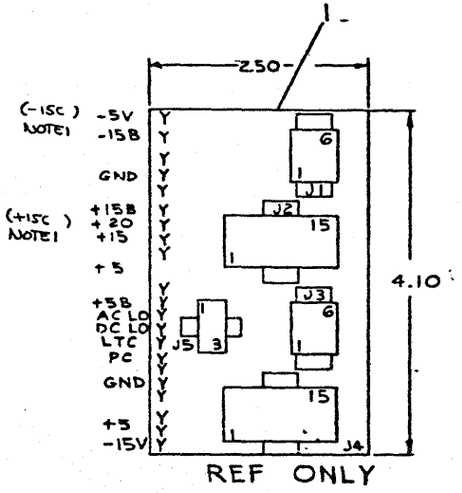
NOTES:

1. H777 UA, UB VARIATION ONLY ±15C FROM THE 5913764 MODULE.





REF ONLY

REVISIONS			
DWG	CHANGE NO.		REV.
	REVISED PER DRAWING		D
	5411586-TW002		E
	5411586-TW003		F

DRN.		1-28-79
CHK'D		1-28-79
ENG.		1-26-79
PROJ. ENG.		1-21-79
PROD.		2-12-79
NEXT HIGHER ASSY.		
SCALE	NONE	
SHEET	1 OF 1	

FIRST USED ON 11/04 PWR SUPP

digital

TITLE: BOARD, POWER DISTRIBUTION H777

SIZE	CODE	NUMBER	REV.
D	CS	5411586-0-1	F

DIST.

CS 5411586-0-1 F

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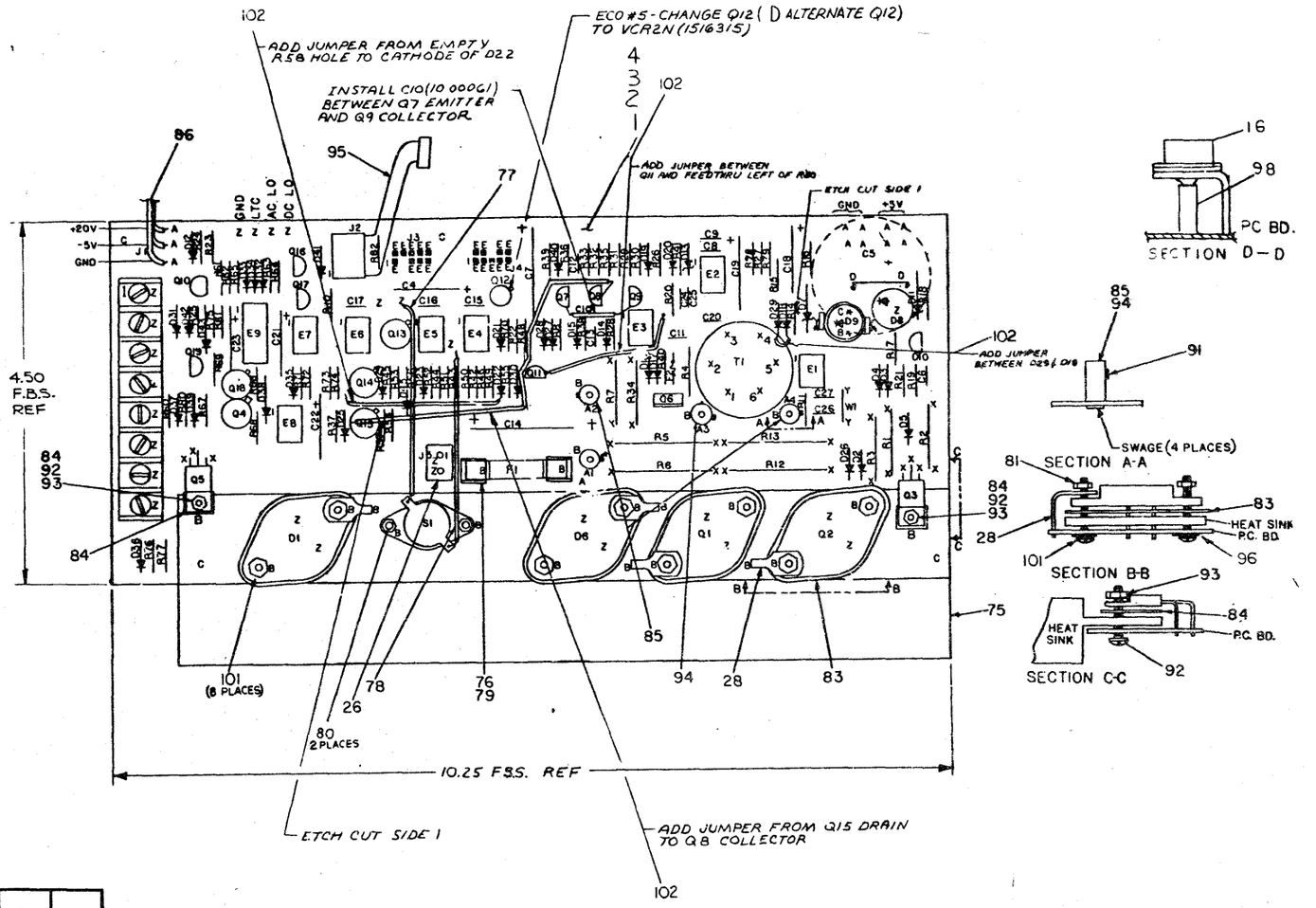
NOTES:

1. HARDWARE ON D1, Q1, Q2, D6, S1, C5 MUST BE TORQUED TO 12 IN-LBS (-0,+1)

QTY	REF DESIGNATION	SUBSTITUTION LIST DESCRIPTION	PART NO.	ITEM NO.
1	C19	CAPACITOR, 1.5mf, 50V, POLYCARB	1010031-08	12
1	D1	DIODE	1112723-01	23
8	C6,C9,C11,C20,C24-C27	CAPACITOR, .01mf, 50V	1001610-00	8



QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
		X-Y COORDINATE HOLE LOCATION	K-CO-5411597-0-4	1
		ASSY/DRILLING HOLE LAYOUT	D-AH-5411597-0-5	2
		MODULE ECO HISTORY	B-JH-5411597-0-6	3
1		ETCHED CIRCUIT BOARD	5011598	4
1	C12	CAPACITOR, 100pf, 100V, 5% DM	1000016	5
1	C13	CAPACITOR, 470pf, 100V, 5% DM	1000024	6
1	C14	CAPACITOR, 50mf, 50V, AL.EL	1000080	7
8	C6,C9,C11,C20,C24-C27	CAPACITOR, .01mf, 100V DISC	1001610-01	8
2	C22,C23	CAPACITOR, 1mf, 35V, 10% TANT	1001776	9
3	C15,C16,C17	CAPACITOR, 5pf, 100V, 5% DM	1002425	10
				11
1	C19	CAPACITOR, 1.5mf, 35V, 10% TANT	1009725	12
2	C4,C18	CAPACITOR, 2.2mf, 20V, 10% TANT	1002627	13
2	C7, C21	CAPACITOR, 10mf, 20V, 10% TANT	1004813	14
1	D11	DIODE IN752A	1102808	15
1	D8	DIODE MR1033B	1103341	16
29	D3,D4,D12,D14 THRU D20,D22 THRU D25,D27,D30 THRU D37 D40,D42,D5,D39,D28	DIODE D872	1105275	17
3	D21,D41 D29	DIODE IN4004	1105796	18
1	D13	DIODE,ZENER,5.1V,2% IZT-5ma	1110713	19
1	D6	DIODE,TO3	1110715	20
1	D10	DIODE 2N5082	1110968	21
3	D7,D43,D45	DIODE IN751A	1110994	22
1	D1	DIODE,DUAL,TO3	1112723-00	23
2	D2,D26	DIODE A1148	1112595-01	24
1	D38	DIODE,ZENER 13V IN964B	1109988	25
1	J5	CONNECTOR 2 PIN MATE-IN-LOC	1211342-2	26
1	J1	TERMINAL BOARD 8 STATION	1212484-01	27
4		SOLDER LUG	9009676	28
18		PINS, STAKING	9009149	29
1	F2	FUSE 5A	1209070	30
2	R18,R19	RESISTOR, 100, 1/4W, 5%	1300229	31
1	R10	RESISTOR, 150, 1/4W, 5%	1300250	32
1	R2	RESISTOR, 150, 1W, 5%	1300255	33
1	R34	RESISTOR, 220, 1W, 10%	1300277	34
2	R78,R81	RESISTOR, 390, 1/4W, 5%	1300309	35
2	R29 R16	RESISTOR, 470, 1/4W, 5%	1300316	36
7	R82,R28,R38,R50,R69,R52,R54	RESISTOR, 1K, 1/4W, 5%	1300365	37
2	R8, R66	RESISTOR, 2.7K, 1/4W, 5%	1300426	38
7	R31,R60,R62,R65,R68,R15,R39	RESISTOR, 4.7K, 1/4W, 5%	1300447	39
13	R63,R25,R32,R35,R36,R37,R80 R55 THRU R57,R67,R70,R77	RESISTOR, 10K, 1/4W, 5%	1300479	40
1	R24	RESISTOR, 12, 1/4W, 5%	1301430	41
1	R4	RESISTOR, 47, 1/2W, 5%	1301695	42
5	R23 R48,R40,R64,R75	RESISTOR, 270, 1/4W, 5%	1301972	43
2	R72,R74	RESISTOR, 150K, 1/4W, 5%	1302396	44
2	R26,R61	RESISTOR, 2K, 1/4W, 5%	1302388	45
4	R22,R71,R41,R73	RESISTOR, 30K, 1/4W, 5%	1302394	46
3	R49,R51,R53	RESISTOR, 56K, 1/4W, 5%	1302395	47
1	R27	RESISTOR, 100K, 1/4W, 5%	1302466	48
2	R17,R21,	RESISTOR, 30 1/4W, 5%	1302751	49
2	R43,R44	RESISTOR, 1.21K, 1/4W, 1%	1302871	50
1	R46	RESISTOR, 1K, 1/4W, 1%	1303114	51
1	R33,	RESISTOR, 8.2K, 1/4W, 5%	1303179	52
1	R45	RESISTOR, 10K, 1/8W, 1%	1303312	53

PARTS LIST

REV	CHANGE NO.	DATE	BY
L	5411597-0001	11-24-75	H. Bernanke
K	5411597-ML005	2-6-77	A. BARON
J	5411597-0004	2nd Oct. 77	A. BARON
H	5411597-0003	12-19-25	R. BARRY
F	5411597-0002	10-23-75	J. SOTO
E	5411597-0001	10-23-75	H. Bernanke

FIRST USED ON OPTION MODEL

ETCH BOARD REV. E

DRN.	DATE
J. Vinson	6-30-75
CHKD.	DATE
ENG.	DATE
PROJ. ENG.	DATE
G. Rasay	9/18/75
PROD. ENG.	DATE

NEXT HIGHER ASSY

SCALE

SHEET 1 OF 4

digital

TITLE: H777 +5V REGULATOR

SIZE D | CODE CS | NUMBER 5411597-0-1 | REV. L

DIST.

IC 555	1	8
IC TYPE	GND	+5V

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

IC PIN LOCATIONS

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

SEMICONDUCTOR CONVERSION CHART

DEC FORM NO. ORD 135.8

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1	R76	RESISTOR, 5.1, 1/4W, 5%	1309422	54
1	R79	RESISTOR, 56 , 1/4W, 5%	1302602	55
1	R42	RESISTOR, 34.8K, 1/4W, 1%	1303156	56
2	R1, R7	RESISTOR, .39, 2W, 3%	1310868	57
2	R12, R13	RESISTOR, .02, 5W, 3%	1310876	58
2	R5, R6	RESISTOR, .04, 5W,	1311362	59
1	R3	RESISTOR, 3, 3W, 5%	1312682	60
2	Q1, Q2	TRANSISTOR, 2N5302	1510198	61
3	Q7, Q8 J10	TRANSISTOR, A05	1510705	62
5	Q9, Q11, Q16, Q17, Q18	TRANSISTOR, A55	1510706	63
2	Q3, Q5	TRANSISTOR, 2N5448	1510708	64
4	Q4, Q13 THRU Q15	TRANSISTOR, 2N5433	1511688	65
1	Q19	TRANSISTOR, 2N6028	1510877	66
1	Q6	TRANSISTOR, D44C11	1512790	67
1	D9	TRANSISTOR, C32AX135	1510928	68
1	T1	TRANSFORMER PULSE	1612592	69
1	E8	I.C. DEC 7410	1905576	70
5	E1, E2, E4, E5, E6	I.C. DEC 301A	1910282	71
3	E3, E7, E9	I.C. DEC LM555	1911944	72
1	F1	FUSE 15A, 32V	9007228	73
1	S1	THERMOSTAT (ELMWOOD)	1212787	74
1		HEAT SINK	7414238	75
2		EYELET	9006732	76
3		WIRE, #22 AWG STRANDED (WHITE)	9107350-99	77
3		WIRE, #22 AWG STRANDED (WHITE)	9107350-88	78
2		FUSECLIP	9007203	79
2		SCREW, #4-40 x 7/16 lg PHILLIPS HD	9006012-1	80
10		NUT, KEP #4-40	9006557	81
A/R		COMPOUND, THERMAL	9008268	82
4		INSULATOR, TO3	9006419	83
2		INSULATOR, THERMA-FILM	9009587	84
3	A1, A2, A4	STANDOFF	7414048-0	85
REF		ASSY, HARNESS	7011415-0-0	86
1	W1	WIRE #18 AWG	9009185	87
1	C10	CAPACITOR 8200 PF 100V MYLAR	1000061	88
1	C8	CAPACITOR, 33 PF, 100V, 5% D.M.	1000009	89
				90
4		SET SCREW 6-32 X 1/8 LG.	9006290-10	91
2		SCREW NYLON 4-40 X 1/2 LG.	9006402-4	92
2		NUT NYLON 4-40	9007992	93
1	A3	STANDOFF	7414048-1	94
1	J2	CONTROL CABLE (CONSOLE)	7011414-1F	95
8		WASHER, FLAT	9008172	96
~~=~~		~~[illegible]~~	~~[illegible]~~	~~97~~
1		SPACER, INSULATOR	9007615	98
1	R30	RES 220 , 1/4W, 5%	1309271	99
1	R20	RES 3.3K, 1/4W, 5%	1300439	100
8		SCREW, PHL. PAN HD 4-40 x 5/8"	9006014-01	101
A/R		JUMPER	9105740-55	102
A/R		WIRE	9107267-09	103
1	Q12	TRANSISTER VCR2N	1516351	104
1	R11	RES 383Ω 1/4W 1%	1305125	105
1	R14	RES 8.0K 1/4W 1%	1305129	106

REVISIONS

CHK	CHANGE NO	REV

TITLE	SIZE	CODE	NUMBER	REV.
H777 +5V REGULATOR	D	CS	5411597-0-1	L
SCALE	SHEET 2 OF 4		DIST.	

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J5 2 RAW DC
J3 8,10 +5V
J2 9,10
J1 3,5,6
J5 1 GND
J3 LTC
J3 5,6 CLOCK
J3 4,7,8,9,10 +15B, -15B, +20 OFF
J4 2,4,5 CLK OFF
DC LO
AC LO

J1 (TB1) AC 8, AC 7, C1 GND 5,6
F1, F2 5A
T1
D1 D672
C1 24K, C2 24K
C20 .01uf, R4 47
A1, A2, A3, A4
L1 SEE NOTE 1
C26 .01uf
R12 .02, R13 .02
R11 383
Q1 2N5302, Q2 2N5302
R5 .04, R6 .04
D26 A114B, D2 A114B
R1 .39, Q3 D45H8, R3 3
D4 D672, D3 D672, D5 D672
R2 150
D6 NFR5117
C27 .01uf
301A E1
R14 8.0K, R16 470
D19 D672
D7 IN751A
R15 4.7K, C18 2.2uf, R79 56
C5 3900uf
D8 MR103B, R17 30
D11 IN752A
D10 2N5062, R18 100
D9 C32AX13S
R19 100, C6 .01uf, R21 30
R23 27, R24 12
Q10 A05, D12 D672, R25 10K
LTC

D17 D672, D16 D672, D18 D672
R34 220
D15 D672
Q6 D44C11, R7 .39, R40 270
R36 10K, C13 470pf
R35 10K
D40 D672
555 E3 OUTPUT DCG, VCC, TRIG VTH, R CTL
R39 4.7K, Q7 A05
R38 1K
R32 10K, R31 4.7K, R30 220, R29 470
Q9 A55
R78 390, R27 100K
C19 1.5uf
R26 2K
301A E2
R20 3.3K
C10 8200pf
Q8 A05
R28 1K
C8 33pf, C24 .01uf, D13, D20 D672, R41 30K, C7 10uf
C11 .01uf
C25 .01uf
C9 .01uf
GND
CLOCK

+15B CHG MOD
RAW DC
+5B
MON EN
BAT MON
BAT LO
GND
BATTERY STATUS
RLI
STBY
AC LO DRIVE

D37 D672
D29 IN4004
R37 10K, D25 D672
Q15 2N5433
C12 100pf, R33 8.2K, D14 D672

R42 34.8K 1%
R43 1.21K
R44 1.21K
R45 10K
D45 IN751A
R46 1K, R49 56K, R50 1K, 301A E4, C15 5pf
R51 56K, R52 1K, 301A E5, C16 5pf
R53 56K, R54 1K, 301A E6, C17 5pf
D22 D672, R70 10K, D42 D672, D23 D672, D24 D672
D31 D672
Q12 VCR2N, R55 10K
Q13 2N5433, R56 10K
Q14 2N5433, R57 10K

(C) J2
STANDBY 4, ON 5, PC
D41 IN4004, S1
D21 IN4004, R22 30K
D28 D672, D27 D672, R8 2.7K, R48 270, Q11 A55
C14 50uf

NOTES:
1.) COMPONENTS WITHIN THE BROKEN LINES ARE MOUNTED TO THE BOARD ON NEXT HIGHER ASS'Y.

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
H777 +5V REGULATOR	D	CS	5411597-0-1	L
SCALE —	SHEET 3 OF 4	DIST.		

DEC FORM NO. DMD 138

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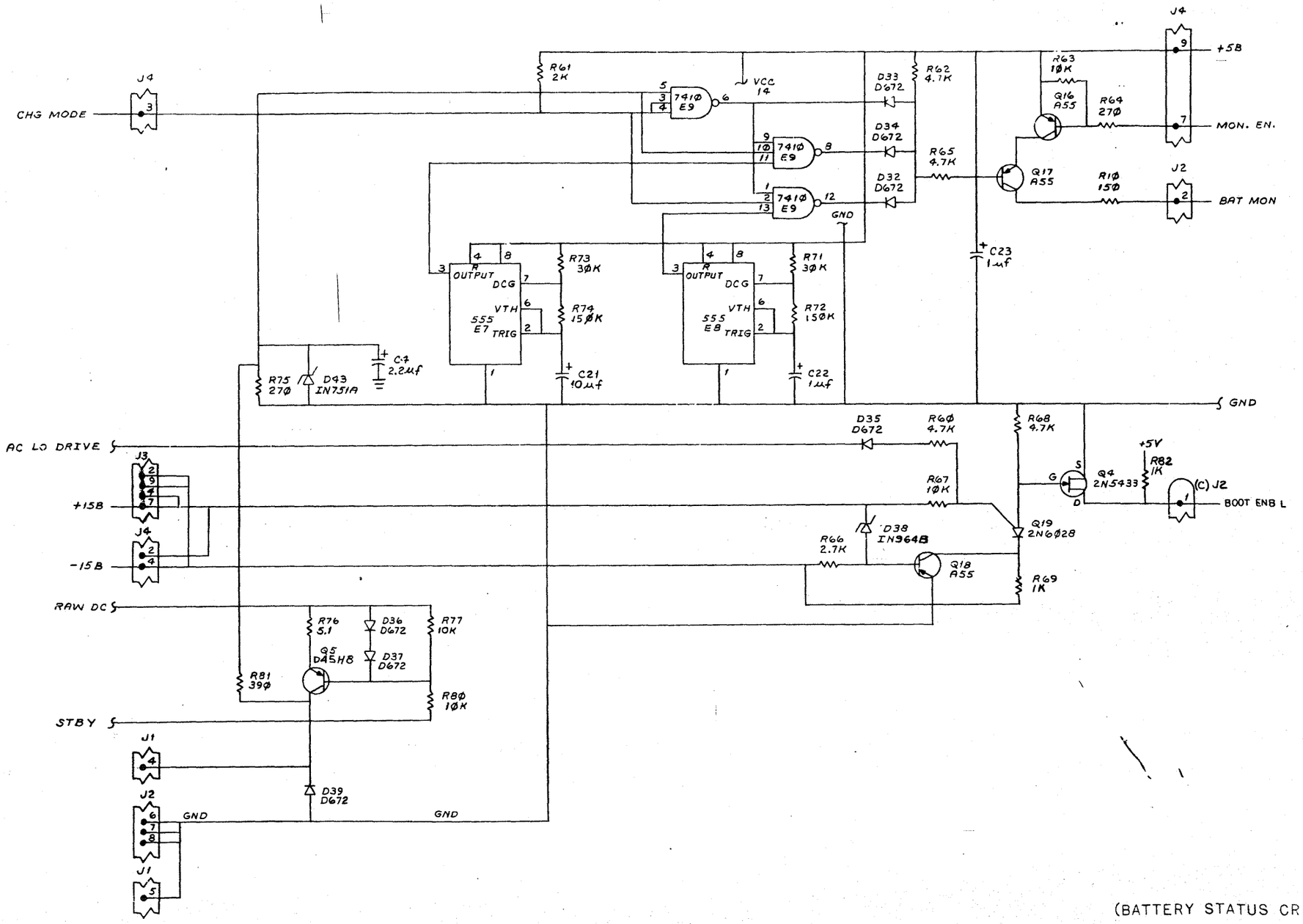

(BATTERY STATUS CRKT'S)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
H777 +5V REGULATOR	D	CS	5411597-0-1	L
SCALE	SHEET 4 OF 4	DIST.		

DEC FORM NO. DRD 138

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J1 (TB1) AC AC CT GND
F1 20A
C1 24K C2 24K
D1
T1
Q1 2N5302 Q2 2N5302 T2
D26 A114B D2 A114B R3 3W
R1 .25 D4 D672 D3 D672 C5 D672 Q3 D45H8 R2 15Ω 1W
C2Ω .01MF R4 47
L1 SEE NOTE 1
D6
C26 .01MF R12 .01 R13 .01 C27 .01MF R11 18Ω
D19 D672 D7 IN751A
3Ø1A E1 R14 8.2K R16 47Ω
R15 4.7K R19 56
C18 2.2MF C8 330Ø MF
D8 MR1Ø32B R17 3Ø D1Ø 2N5962 R18 1ØØ C6 .01MF D9 C32AA1 35 R19 1Ø R21 3Ø D11 IN752A
J5 2 RAW DC
J4 8 10 +5V
J2 9 10
J1 3 5 6
J5 1 GND
FZ 2A
Q6 D44H11 R7 .5 R4Ø 1Ø
D17 D672 D16 D672 D18 D672 D15 D672
R34 22Ø R36 1ØK R35 4K D4Ø D672
R32 1ØK R31 4.7K R3Ø 22Ø R29 47Ø
Q9 A55 R2Ø 3.3K C1Ø 82ØØ PF
R28 1K
C13 47ØPF
R39 4.7K Q7 .4Ø5
R38 1K
555 E3 VCC OUTPUT DCG TRIG VTH CTL C11 .01MF
Q8 B4Ø5
R26 2K
R78 39Ø C19 1.5 MF R27 1Ø.ØK
3Ø1A E2 C8 33PF C24 .01MF D13 5.1V 2% D2Ø D672 R41 3Ø.ØK C7 1Ø MF C3 .01MF C25 .01MF
W1
Q1Ø A05 D12 D672 R25 1ØK R23 27Ø R24 12 1Ø% LTC
+15B CHG RHW MOD DC
+5B MON EN BAT MON BAT LO GND BATTERY STATUS RLI AC LO STBY DRIVE
.GND
R37 1ØK D25 D672 Q15 2N5433 D29 IN-4ØØ4
C12 1ØØPF R33 8.2K D14 D672
CLOCK
J3 5 6 CLOCK 4 7 +15B 2 9 -15B 1 10 +2Ø OFF
J4 1 2 4 5 CLK OFF
D5Ø D672
R42 34.8K 1% R46 1K R49 56K C15 5PF 3Ø1A E4 R5Ø 1K
R43 1.21K R51 56K C16 5PF 3Ø1A E5 R52 1K
R44 1.21K 1% R53 56K C17 5PF 3Ø1A E6 R54 1K
R46 1ØK 1% D45 5.1V 2%
D22 D672 R7Ø 1ØK D42 D672 D23 D672 D24 D672 D31 D672
Q12 VCR2N R55 1ØK Q13 2N5433 R56 1ØK Q14 2N5433 R57 1ØK
(C) J2 STANDBY CN PC
D41 IN-4ØØ4 S1 D21 IN4ØØ4 R8 2.7K D28 D672 D27 D672 Q11 A55 R22 3Ø.K R48 27Ø C14 5Ø MF
0 DC LO
0 AC LO
GND

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

REVISIONS									
CHK	CHANGE NO.	REV.							
	5412667-00001	B	5412667-00002	C	5412667-ML003	D	5412667-ML004	E	5412667-ML005	F
D. GIST NOV. 77			B. GIST		E. CROCKER	10-30-78	A. BARON		A. BARON	

DRWN			FIRST USED ON
CHK'D			digital
ENG.			
PROJ. ENG.			TITLE
PROD.			H777 +5V REGULATOR

SIZE D CODE DCS NUMBER 5412667-Ø-1 REV F
SCALE —— SHEET 1 OF 2 DIST.

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J4 CH5 MODE
D34 DG72
D43 1N4004
R71 22K
R72 1K
Q16 A05
R73 1K
555 E7 OUTPUT DCG VTH TRIS
R64 30K
R65 330K
C21 100NF
C22 1NF
R73 1K
Q17 A05
R81 4.7K
R74 1K
GND
J4 9 +5B
R61 10K
J4 7 MON EN
R62 10K
Q5 A55
R63 100
J2 2 BAT MON
AC LO DRIVE
J3 2 9 4 7
+15B
J4 2 4
-15B
RAW DC
R76 5.1
Q20 D45H8
D36 DG72
D37 DG72
R77 10K
R80 10K
STBY
J1 4
D39 DG72
J2 6 7 8
GND
D35 DG72
R60 4.7K
R67 10K
D38 IN3GAB
R66 2.7K
Q18 A55
R68 4.7K
Q19 2N6028
R69 1K
+5V
R82 1K
(c) J2 1
Q4 2N5433
BOOT ENB L
R83 1K
W2
J3 8 3

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LEGEND	
PART NO	VARIATION
7011075-0	120 V
7011075-1	230 V

WIRE CHART

ITEM NO	DESCRIP AWG	DESCRIP COLOR	FROM CONN	FROM WITH	TO CONN	TO WITH	REMARKS
22	18	WHT	K1-4	SOLD,31	*TB2-4S	SOLD	5 1/2" L
23	18	BLK	K1-6	↓	*TB2-1S	SOLD	5" L
24	18	BRN	K1-7	↓	TB2-5H	25,43	6 1/2" L
26	18	BLU	K1-9	↓	TB2-6H	25,43	7 1/2" L
27 (SEE NOTE #2)	18 TWP	GRY BLK	K1-A K1-B	↓ SOLD,31	— —	25 25	
26	18	BLU	G2	SOLD	*TB2-6S	SOLD	6" L
23	18	BLK	F1-1	SOLD,31	*TB2-1S	SOLD	5" L
15 (SEE NOTE #2)	18 TWO	BLU BRN	EMI-2 LOAD EMI-1 LOAD	— —	*TB2-4S *TB2-6S	SOLD SOLD	6" L 6" L
22	18	WHT	EMI-2	SOLD,31	CBI-2 LOAD	28,41	5" L
23	18	BLK	EMI-1	SOLD,31	CBI-1 LOAD	28,41	5" L
45 (SEE NOTE #2, SEE DETAIL 'C')	18 TWP	WHT BLK	*TB2-5S *TB2-2S	SOLD SOLD	J2-1 J2-2	30,32 30,32	6 1/2" L 6 1/2" L
45	18 TWP	WHT BLK	*TB2-5S *TB2-2S	SOLD SOLD	J3-1 J3-2	30,32 30,32	15 1/2" L 15 1/2" L

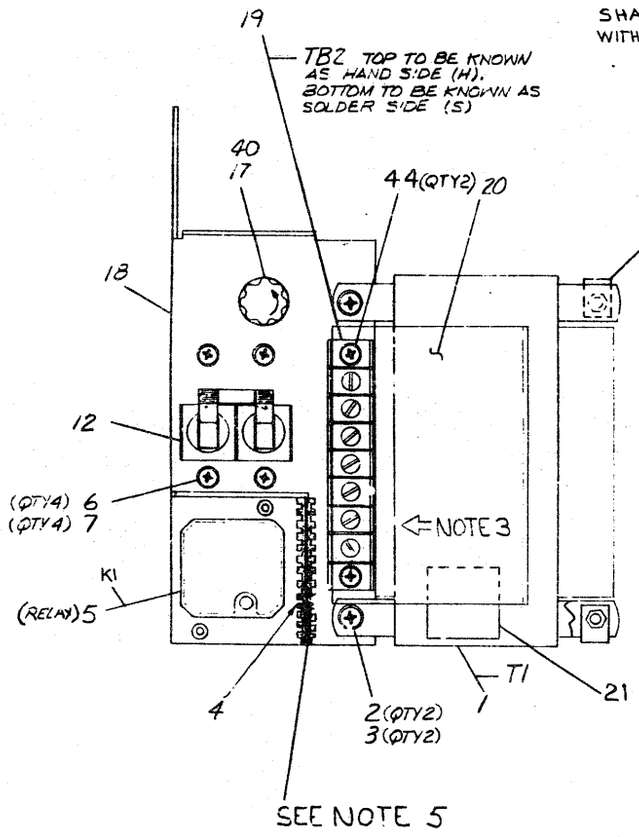
* INDICATES SOLDER CONN. SHARED WITH OTHER CONN. WITH SAME COMMON CONN.

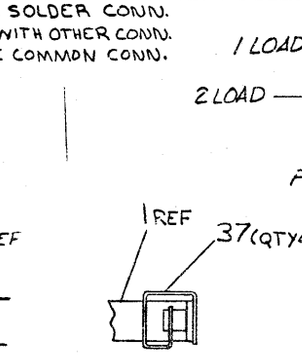
ITEM NO	DESCRIP AWG	DESCRIP COLOR	FROM CONN	FROM WITH	TO CONN	TO WITH	REMARKS
1	14	BLK	T1	43	TB2-1H	—	—
	TWP	BK/WH			TB2-3H	—	—
	14	RED			TB2-2H	—	—
	TWP	RD/WH	T1		TB2-4H	—	—
23	18	BLK	G3	SOLD	F1-2	SOLD,31	4" L
34	14	GRN/YEL	EMI-3	SOLD,31	—	42	8" L
35	18	BLK	TB2-1H	—	TB2-2H	—	120V
36	18	WHT	TB2-3H	—	TB2-4H	—	120V
35	18	BLK	TB2-2H	—	TB2-3H	—	230V
13	22	BARE	R1-A	—	G3	SOLD,33	
13	22	BARE	R1-B	—	G2	SOLD,33	

7011075-0	120V
7011075-1	230V

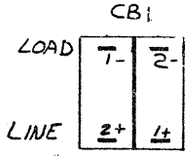
NOTES:

1. SECOND SOURCE FOR ITEM #1 IS (LINE FILTER) WILL HAVE WHT & BLK LEADS. SUBSTITUTE WHT FOR BLU AND BLK FOR BRN.
2. TWISTED PAIR WIRE TO HAVE A MIN OF 4 TWIST PER INCH AS PER WIRE CHART.
3. ALL CONNECTIONS TO TB2 ARE TO BE MADE FROM SIDE INDICATED BY ARROW.
4. USE TIE WRAPS (ITEM #38) AS NEEDED.
5. T1 PRIMARY WIRES TO TB2 MUST BE ROUTED BY ITEM 4
6. COVER, ITEM #28 WITH ITEM #41 TO COVER EXPOSED PART OF TERMINAL.

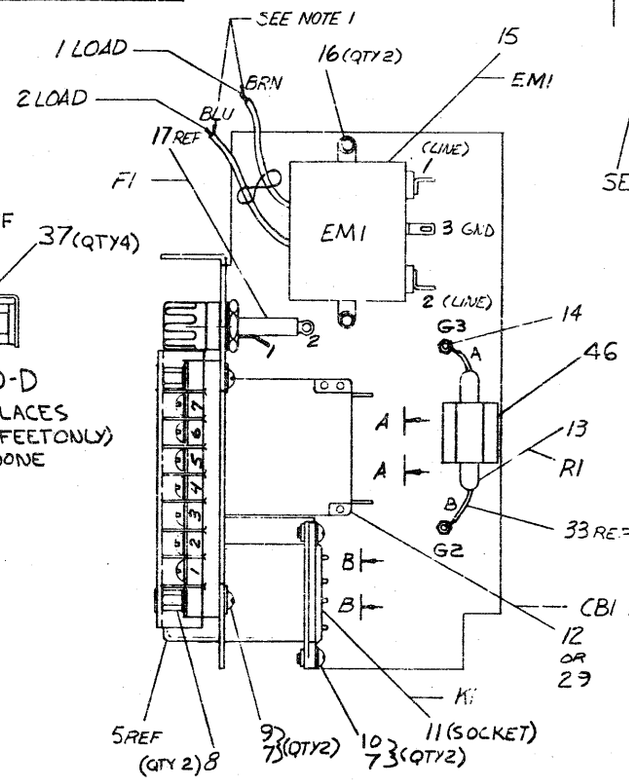




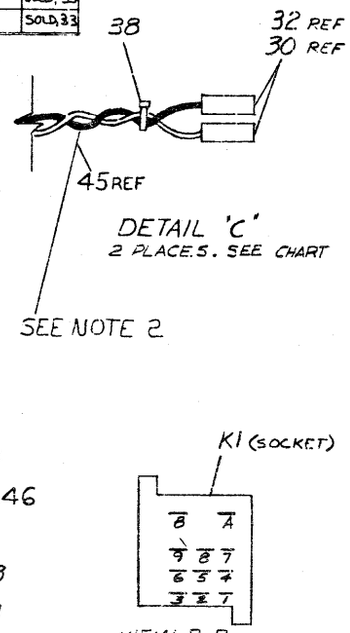
VIEW D-D
TYP-4 PLACES
(BOTTOM FEET ONLY)
SCALE: NONE



VIEW A-A
REAR VIEW OF CB1 & CB2 (ITEM #12) FOR WIRING ONLY.



SIDE VIEW
TRANSFORMER (ITEM #1) REMOVED FOR CLARITY.



DETAIL 'C'
2 PLACES. SEE CHART

VIEW B-B
REAR VIEW OF K1 (SOCKET) (ITEM #4) FOR WIRING ONLY.

CONT. ON SHEET 2 of 2

—	1	JUMPER ASSY (WHT 2")	B-A-7011798-0-0	36
1	1	JUMPER ASSY (BLK 2")	B-A-7011797-0-0	35
A/R	A/R	WIRE #14 AWG TRACER (GRN/YEL)	9107777-54	34
A/R	A/R	TUBING INS (RED)	9107278-02	33
4	4	HOUSING SOCKET FASTAB	1210820-1	32
A/R	A/R	TUBING SHRINK (RED)	9107305-02	31
4	4	HOUSING TERM FASTAB	1210820-2	30
1	—	CIRCUIT BREAKER, 5A	1210191-1	29
2	2	CONN FASTON (RED INS)	9007970	28
A/R	A/R	WIRE 18 AWG INS (GRY/BLK)	9107430-08	27
A/R	A/R	WIRE 18 AWG INS (BLU)	9107360-66	26
2	2	RING CRIMP (RED INS)	9007929	25
A/R	A/R	WIRE 18 AWG INS (BRN)	9107360-11	24
A/R	A/R	WIRE 18 AWG INS (BLK)	9107360-00	23
A/R	A/R	WIRE #18 AWG INS (WHT)	9107360-99	22
1	1	MOUNT TIE WRAP	9008264	21
1	1	SHIELD TERM	C-1A-7414743-0-0	20
1	1	TERMINAL 7 POS	1212788	19
1	1	BRACKET COMPONENT	D-1A-7413769-0-0	18
1	1	HOLDER, FUSE	9007242-0	17
2	2	NUT KEPS #6-32	9009243	16
1	1	FILTER LINE (EMI)	1212748	15
2	2	TERMINAL TURRET, 15	9006966	14
1	1	RESISTOR 10Ω, 10W	1300173	13
—	1	CIRCUIT BREAKER, 10A	1210191-0	12
1	1	SOCKET, RELAY	1212789	11
2	2	SCR PHIL HD PAN #6-32 X .25	9006021-01	10
2	2	SCR PHIL HD PAN #6-32 X .62	9006026-01	9
2	2	SPACER HEX #6-32 X .19	9006842	8
8	8	WASHER INT TOOTH LOCK #6	9006633	7
4	4	SCR PHIL HD PAN #6-32 X .19	9006020-01	6
1	1	RELAY 6 & 12 V 3P 10A	1210683	5
A/R	A/R	GROMMET CATERPILLAR	9007035	4
2	2	WASHER INT TOOTH LOCK #8	9006634	3
2	2	SCR PHIL PAN HD #8-32 X .44	9006038-1	2
1	X	TRANSFORMER ASSY	C-1A-7011805-0-0	1
		DESCRIPTION	DWG./PART NO.	ITEM NO.

REVISIONS			
CHK	CHANGE NO.		REV.
RB	7011075-00001		A
RB	7011075-00002		B
RB	7011075-00003		C

R. BARRY 10-22-75
R. BARRY 11-7-75
R. BARRY 12-9-75
A. BARON 23 NOV 77
A. BARON 11-29-77

DEC FORM NO. DRD 100-C

7011075-1 / 7011075-0

QUANTITY & VARIATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES OVER 0 TO 0.2	OVER 0.2 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 60.0	OVER 60.0 TO 80.0
SURFACE QUALITY IN MICROINCHES	MEDIUM ☐	±.005	±.008	±.012	±.016	±.024	±.04
	PREFERRED ☐	±.012	±.016	±.025	±.04	±.062	±.1

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL —#—

FINISH —H—

DRWN
CHK'D R. Barry 9-26-75
ENG R. Barry 9-25-75
PROJ. ENGR R. Barry 9-25-75
PROD. A. Baron 9-26-75

NEXT HIGHER ASSY. D-1A-H777-0-0

SCALE 1/1

SHEET 1 OF 2

FIRST USED ON H777

digital

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

SIZE D | CODE AD | NUMBER 7011075-0-0 | REV. C

DIST.

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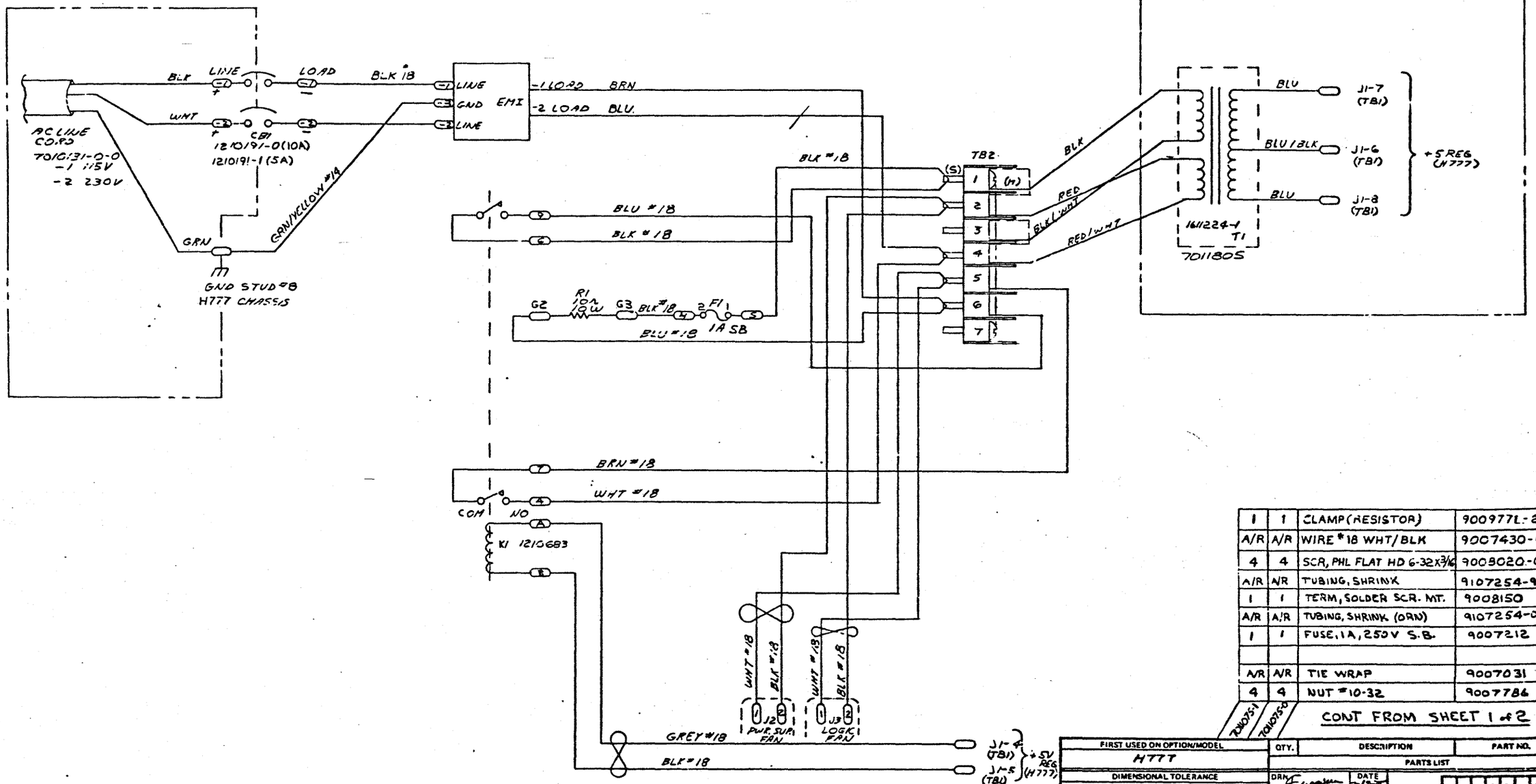

1	1	CLAMP(RESISTOR)	9009771-2	46
A/R	A/R	WIRE #18 WHT/BLK	9007430-09	45
4	4	SCR, PHL FLAT HD 6-32X3/16	9009020-02	44
A/R	A/R	TUBING, SHRINK	9107254-9	43
1	1	TERM, SOLDER SCR. MT.	9008150	42
A/R	A/R	TUBING, SHRINK (ORN)	9107254-02	41
1	1	FUSE, 1A, 250V S.B.	9007212	40
A/R	A/R	TIE WRAP	9007031	38
4	4	NUT #10-32	9007786	37
7011075-1	7011075-0		PARTS LIST	

CONT FROM SHEET 1 of 2 ...

FIRST USED ON OPTION/MODEL: H777	QTY.	DESCRIPTION	PART NO. / ITEM NO.
DIMENSIONAL TOLERANCE: DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED	DRN F Figueroa	DATE 7/1975	digital
MILLIMETERS: X.X ±0.10, X.XX ±0.8, X.XXX ±0.25	CHKD M Young	DATE 7/15/75	
INCHES: XX ±.005, XXX ±.010, XXXX ±.005	ENG P Barry	DATE 9/25/75	TITLE: A/C INPUT ASSY (120V/230V)
ANGLES: 15' 30"	PROJ. ENG. P Barry	DATE 9-25-75	
THIRD ANGLE PROJECTION	PROD. S K Peterson	DATE 10/7/75	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓	NEXT HIGHER ASSY.		SIZE D CODE AD NUMBER 7011075-0-0 REV. C
MATERIAL			DIST
FINISH	SCALE		
	SHEET 2 OF 2		

REVISIONS: REV. | CHANGE NO. | CHK

REV. G

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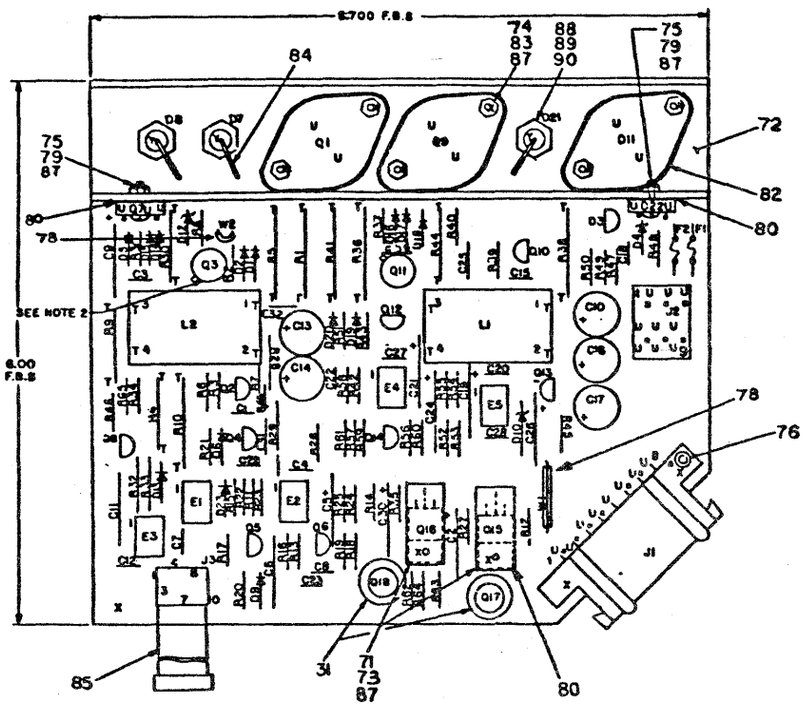
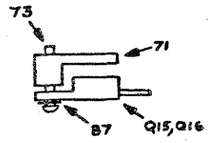
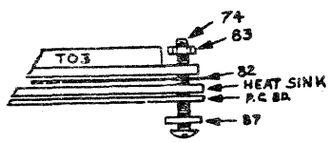
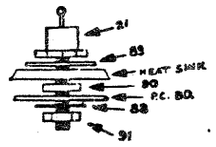
NOTES:

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









SIDE VIEW MOUNTING D7, D8 AND D21

CAUTION: FOR PARTS LIST REFER TO K-PL-5411601-0-DBP (Z1295P)

IC TYPE	GND	+5V

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

IC PIN LOCATIONS

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1	R19	RESISTOR, 8.2K, 1/4W, 5%	1303179	51
1	R28	RESISTOR, 4.99K, 1/4W, 1% MF	1305324	52
2	R1, R38	RESISTOR, 1, 2W, 5% WW	1305420	53
1	R35	RESISTOR, 5/1, 1/4W, 5%	1309422	54
1	R5	RESISTOR, .15Ω, 2W, 10%	1310147	55
1	R32	RESISTOR, 2.21K, 1/4W, 1%	1310931	56
1	D22	DIODE 2N4441 SCR	1509887	57
3	Q3, Q11, Q17	TRANSISTOR, 2N4036	1509708	58
1	Q18	TRANSISTOR, DEC 3734	1510082	59
1	Q7	TRANSISTOR, MJE3055	1510555	60
7	Q4, Q5, Q6, Q8, Q12 THRU Q14	TRANSISTOR, XA05	1510705	61
2	Q2, Q10	TRANSISTOR, XB86	1510706-1	62
1	Q16	TRANSISTOR, D45H8	1510708	63
2	Q1, Q9	TRANSISTOR, 2N5038	1510909	64
1	Q15	TRANSISTOR, D44H5	1512722	65
2	L1, L2	INDUCTOR, 590uh	1812593	66
2	E2, E5	I.C. L.M. 301A	1910282	67
3	E1, E3, E4	I.C. L.M. 555	1911944	68
1	C22	CAPACITOR, 470pf, 100V, 1%	1000024	69
1	C23	CAPACITOR, 150pf, 100V 5%	1000020	70
2		HEAT SINK	7414785	71
1		HEAT SINK	7413842	72
2		SCREW #4-40 x 7/16 LG.	9000812-1	73
6		SCREW #4/40 x 1/2 LG.	9000813-1	74
2		SCREW, NYLON #4/40 x .37 LG.	9000801-4	75
1		EYELET	9009002	76
4		TRANSIPAD	9007201	77
A/R		TUBING	9107256-11	78
2		NUT, NYLON #4/40	9007992	79
2		SILPAD TO TO-220	1213071-06	80
A/R		THERMAL COMPOUND	9008268	81
3		SILPAD TO 3	1213071-02	82
8		NUT, KEP #4/40	9006553	83
A/R		WIRE #20 AWG STRANDED	9107256-66	84
1	J3	CONTROL CABLE	7011414-00	85
2		WASHER, LOCK, INTERNAL TOOTH	9000838	86
10		WASHER, FLAT	9008172	87
3		WASHER, FLAT	9006666	88
3		SILPAD, STUD MOUNT	1213071-05	89
3		BUSHING, NYLON	9008440	90
3		NUT, HEX #10-32	9006565	91
AR	W1, W2	WIRE, #20 AWG, SOLID	9107560-02	93
1		LABEL POWER SUPPLY	9009255-00	94
2		TIE CABLE	9007031	95
2	C1, C15	CAPACITOR, .02UF, 100V, DISC.	1000004	96
1	R3	RESISTOR, 56, 1/4W, 5%	1302602	97
1	R33	RESISTOR, 2.49K, 1/4W, 1%	1312626	98
1	R38	RESISTOR, .10Ω, 2W, 10%	1316012	99

ALTERNATE PARTS LIST

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1		EYELET	9006732	76
7	C6, C12, C18, C27, C28, C32, C33	CAPACITOR .01 MF 50V	1005610-00	9

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1		X-Y COORDINATE HOLE LOCATION	K-CO-5411601-0-1	1
1		ASSY/DRILLING HOLE LAYOUT	D-AH-5411601-0-1	2
1		MODULE ECO HISTORY	D-MH-5411601-0-1	3
1		ETCHED CIRCUIT BOARD	5011600	4
2	C20, C4	CAPACITOR, 33pf, 100V, 5%	1000009	5
1	C9	CAPACITOR, 100pf, 100V, 5%	1000818	6
1	C7,	CAPACITOR, 220pf, 100V, 5%	1000821	7
1	C25	CAPACITOR, .1mf, 100V, 20% DISC	1000830	8
7	C3, C12, C18, C27, C28, C32, C33	CAPACITOR, .01mf, 100V, DISC	1001810-01	9
6	C2, C5, C9, C19, C26, C30	CAPACITOR, 1mf, 35V, 10%	1001778	10
2	C29, C31	CAPACITOR, 47mf, 25V, 20%	1010279	11
1	C24	CAPACITOR, 10mf, 20V, 10%	1004813	12
2	C8, C21	CAPACITOR, .01mf, 100V, 10% MYLAR	1005784	13
1	C11	CAPACITOR, .015mf, 50V, 2% POLYC	1010648	14
2	C13, C14	CAPACITOR 390mf, 20V	1012603-06	15
1	C17	CAPACITOR, 1200mf, 6.3V	1012607-01	16
2	C19, C16	CAPACITOR, 180mf, 50V	1012607-02	17
1	D4	DIODE IN752A	1102808	18
11	D1, D2, D6, D13 THRU D17, D19, D20, D23	DIODE D672	1105275	19
1	D9	DIODE IN4004	1105798	20
2	D7, D8, D21	DIODE, IN3680	1109448	21
1	D12	DIODE IN4742	1109502	22
1	D10	DIODE IZT 5ma 5.1V, 2%	1115713	23
1	D3	DIODE 2N5062	1110968	24
2	D5, D18	DIODE A1148	1112595-01	25
1	D11	DIODE DUAL	1112723-00	26
2	F1, F2	FUSE 6A	1209078	27
1	J1	CONN. 8 PIN MATE-N-LOC	1209340-00	28
1	J2	CONN. 9 PIN MATE-N-LOC	1209350-09	29
17		PINS	1209458-01	30
2	Q18, Q17	HEAT SINK	1210001	31
4	R2, R37, R47, R50	RESISTOR, 33, 1/4W, 5%	1300197	32
2	R12, R14	RESISTOR, 68, 1/4W, 5%	1300219	33
8	R8, R27, R35, R39, R48, R49, R53, R54	RESISTOR, 100, 1/4W, 5%	1300229	34
2	R9, R44	RESISTOR, 180, 1W, 5%	1300232	35
1	R32	RESISTOR, 390, 1/4W, 5%	1300309	36
7	R19, R20, R54, R59, R88, R62, R29	RESISTOR, 1K, 1/4W, 5%	1300385	37
1	R45	RESISTOR, 1.5K, 1/4W, 5%	1300391	38
1	R28	RESISTOR, 2.49K, 1/4W, 1%	1300424	39
3	R11, R43, R61	RESISTOR, 2.7K, 1/4W, 5%	1300428	40
2	R7, R66	RESISTOR, 4.7K, 1/4W, 5%	1300447	41
2	R23, R58	RESISTOR, 5.62K, 1/4W, 1%	1305128	42
11	R13, R15, R16, R17, R21, R22, R42 R46, R51, R57, R58	RESISTOR, 10K, 1/4W, 5%	1300479	43
2	R53, R24	RESISTOR, 100K, 1/4W, 5%	1302466	44
3	R8, R31, R40	RESISTOR, 10, 1/4W, 5%	1301317	45
2	R16, R41	RESISTOR, 330, 2W, 10%	1301961	46
2	R26, R34	RESISTOR, 2K, 1/4W, 5%	1302388	47
1	R66	RESISTOR, 180, 1/4W, 5%	1301322	48
1	R4	RESISTOR, 1.2K, 1W, 10%	1302468	49
1	R30	RESISTOR, 1.6K, 1W, 5%	1303122	50

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.

FIRST USED ON OPTION MODEL

REV.	CHANGE NO.	DATE	BY
E	5411601-00061	12-6-75	Richard Barry
H	5411601-00003	6/4/76	G. Potter
J	5411601-00004	12-16-76	G. Potter
K	5411601-00005	1-11-77	R. Day
L	5411601-00006	2-4-77	G. Potter
M	5411601-00007	2-28-77	Bruce Cramm
N	5411601-00008	24 JAN 77	M.E. Bausha
P	5411601-00009	12-30-77	M.E. Bausha

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

SEMICONDUCTOR CONVERSION CHART

ETCH BOARD REV. E

PARTS LIST

DSN. B. Bausha	DATE 8-28-77	digital
CHKD.	DATE	
ENG.	DATE 9/6/77	TITLE MOS REGULATOR H777
PROJ. ENG.	DATE 9/23/77	
PROD.	DATE 10/5/77	NEXT HIGHER ASSY
SCALE		SIZE D CODE CS NUMBER 5411601-0-1 REV. P
SHEET 1 OF 3		DIST.

TW 1

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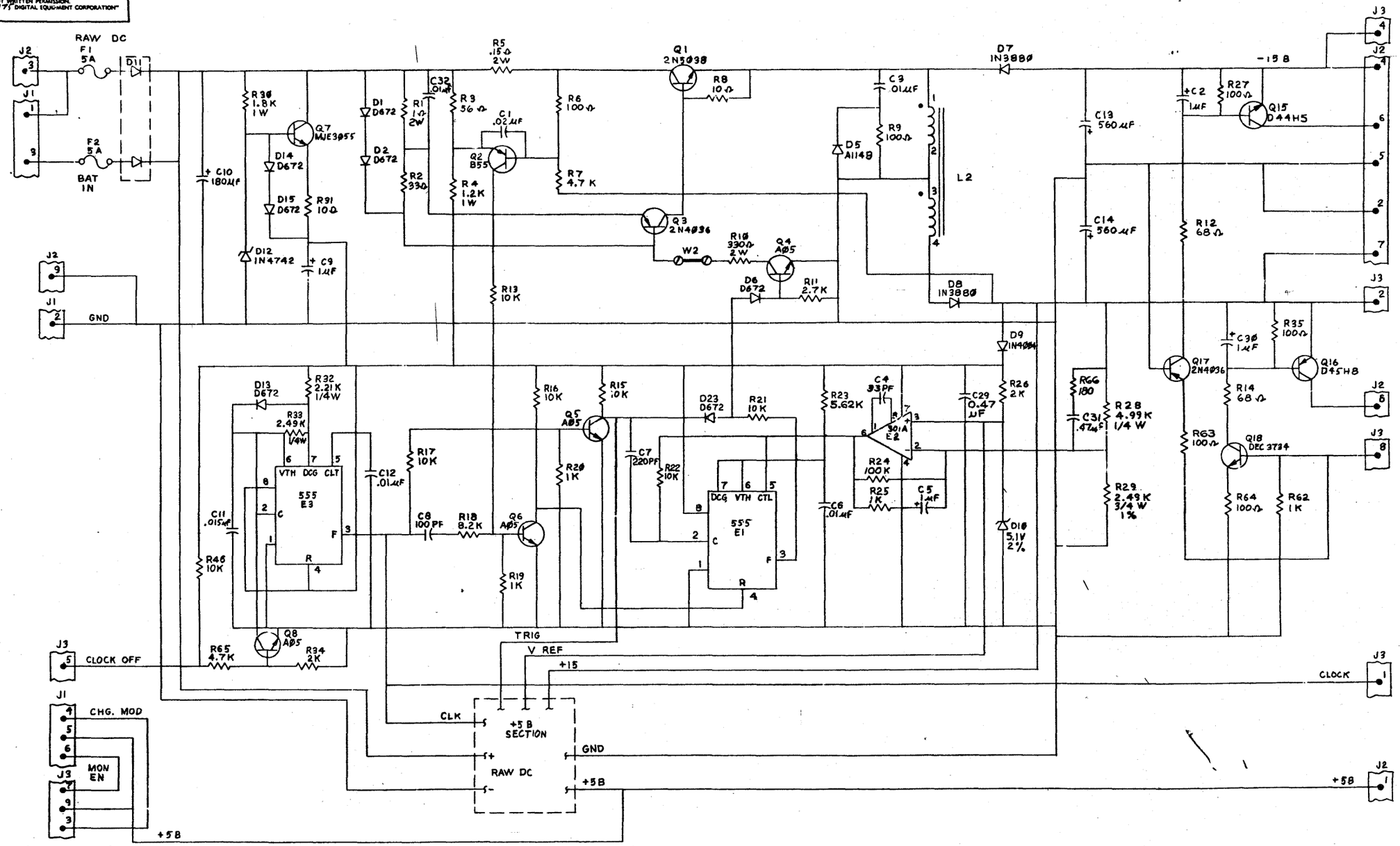

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
MOS REGULATOR H777	D	DCS	5411601-0-1	P
SCALE	SHEET 2 OF 3	DIST.		

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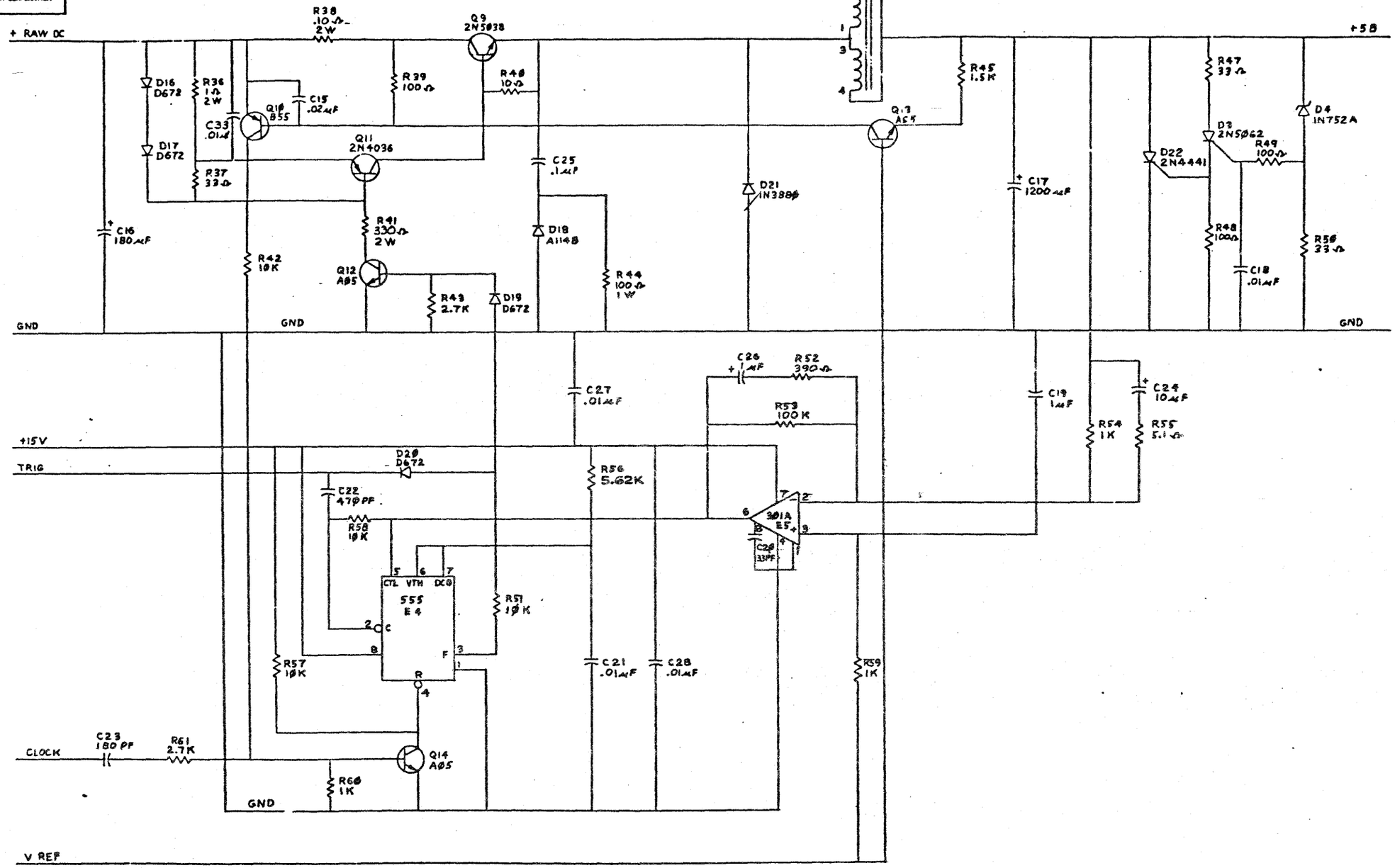

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
MOS REGULATOR H777	D	CS	5411601-0-1	F
SCALE	SHEET 3 OF 3	DIST		

DEC FORM NO. DRU 188

TN 1

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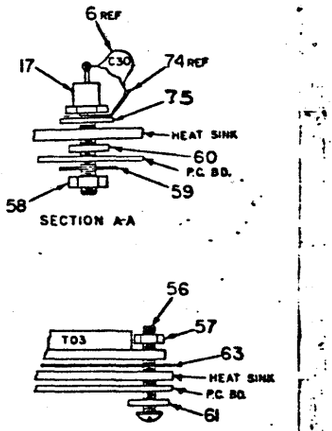
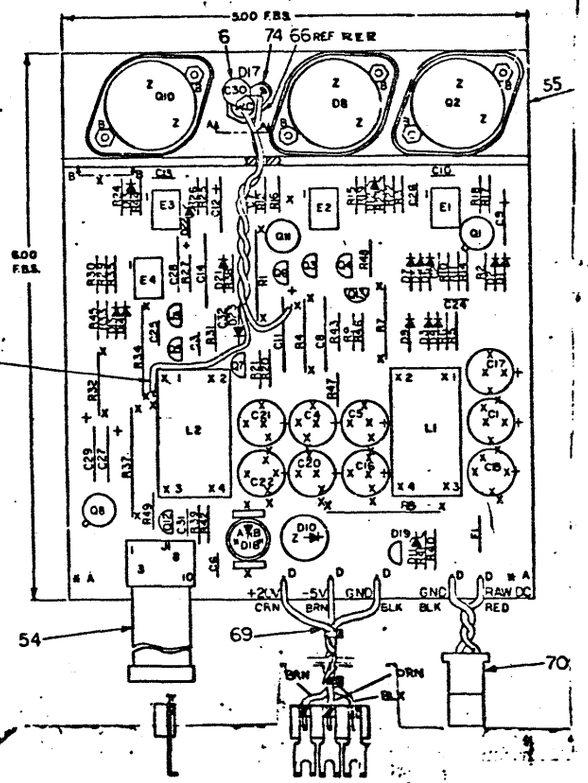
NOTES:

USE TRANSIPAD DEC# 9007201 UNDER Q1 & Q8





1		HEAT SINK	7416236-0-0	55	REF		X-Y COORDINATE HOLE LOCATION	E-CO-5411599-0-4	1
6		SCREW, #4-40 3/8 lg PH HD	9008013-1	56	REF		ASSY/DRILLING HOLE LAYOUT	D-AH-5411599-0-5	2
6		NUT, KEP #4-40	9008557	57	REF		MODULE ECO HISTORY	B-MH-5411599-0-5	3
1		NUT, HEX #10-32	9008564	58	1		ETCHED CIRCUIT BOARD	5011398	4
1		WASHER, FLAT	9008682	59	1	C7	CAPACITOR, 1000pf, 100V, 5%,	1000816	5
1		BUSHING, NYLON	9008440	60	6	C2,C3,C8,C30,C24,C25	CAPACITOR, .01uf, 100V DISC	1001810-01	6
8		WASHER, FLAT	9008172	61	3	C9, C27,C28	CAPACITOR, 1uf, 35V, 10% TANT	1001778	7
A/R		COMPOUND, THERMAL	9008268	62	2	C10,C13	CAPACITOR, 33pf, 100V DM	1000809	8
3		INSULATOR, TO 3	7213071-02	63	1	C11	CAPACITOR, 1.5uf, 35V, 10% TANT	1009725	9
1		~~WASHER, THERMALITE~~	~~9008434~~	64	2	C6,C14	CAPACITOR, .01uf, 100V, 10% MYLAR	1005784	10
2		TRANSIPAD	9007201	65	1	C31	CAPACITOR, 220pf, 100V, 5%	1000201	11
A/R		WIRE #18 AWG, TWISTED PAIR	9107430-02	66	2	C5,C16	CAPACITOR, 1200uf, 63V	1012807-01	12
1	C29	CAPACITOR 2.2UF 20V	1002627	67	7	C1,C17,C18,C4,C20,C21,C22	CAPACITOR, 180uf, 50V	1012807-02	13
1	R47	RESISTOR 200, 1/4W, 5%	1311522	68	1	D22	DIODE, IN4742	1109502	14
1		HARNESS (THREE WIRE)	C-IA 7012547-0-0	69	1	D18	DIODE, MR1033B	1103341	15
1		HARNESS (TWO WIRE)	C-IA 7012546-0-0	70	10	D1 THRU D7, D14, D19, D21	DIODE, D872	1105279	16
1	C12	CAPACITOR, 10uf, 20V, 10%, TANT	1004813	71	1	D17	DIODE, IN3880	1109440	17
1	DZ3	DIODE, IN753A	1102421	72	2	D12,D13	DIODE, LN751, 3.1V 2%	1110713	18
1	C26	CAPACITOR, .47uf, 25V, 20%, CER	1010279	73	1	D8	DIODE	1110715	19
1		SOLDER, TERM., SCREW MTG.	9007815	74	1	D11	DIODE, IN4978	1110856	20
1		SIL PAD .300 .190 I.D.	1213071-03	75	1	D15	DIODE, 2N5862	1110988	21
1	C32	CAP. 1UF 50V CER.	1010274-02	76	2	D9,D16	DIODE, A114B	1112595-01	22
					1	F1	FUSE, 1A, PICO	1210929	23
					1	R46	RESISTOR, 18K, 1/4W, 5%	1302485	24
					6	R9,R39,R40,R41,R43,R45	RESISTOR, 100, 1/4W, 5%	1300229	25
					1	R7,	RESISTOR, 100, 1W, 5%	1300232	26
					3	R11,[illegible],R2,R33	RESISTOR, 390, 1/4W, 5%	1300309	27
					6	R6,R12,R23,R31,R17,R48	RESISTOR, 1K, 1/4W, 5%	1300385	28
					3	R10,[illegible],R14, ,R38	RESISTOR, 2.7K, 1/4W, 5%	1300426	29
					4	R42,R44, R15,R27	RESISTOR, 4.7K, 1/4W, 5%	1300447	30
					1	R4	RESISTOR, 1K, 1W, 5%	1300388	31
					3	R16,[illegible],R29,R36,[illegible]	RESISTOR, 10K, 1/4W, 5%	1300479	32
					2	R3,R35	RESISTOR, 10, 1/4W, 5%	1301317	33
					1	[illegible],R45	RESISTOR, 470, 1/4W, 5%	1300316	34
					1	R5	RESISTOR, 27, 1/4W, 5%	1301522	35
					1	[illegible],R34	RESISTOR, 330, 2W, 10%	1301981	36
					2	R19 [illegible]	RESISTOR, 2%, 1/4W, 5%	1302388	37
					2	R18,R20	RESISTOR, 100K, 1/4W, 5%	1302468	38
					1	R22	RESISTOR, 2.74K, 1/4W, 1%	1304869	39
					2	R1,R32	RESISTOR, 1, 2W, 5% WW	1305428	40
					2	R24,R25	RESISTOR, 1.5K, 1/4W 5%	1300391	41
					1	R21	RESISTOR, 8.25K, 1/4W, 1%	1309428	42
					2	R8,R37	RESISTOR, .08, 5W, 3% WW	1311703	43
					1	R28	RESISTOR, 56, 1/4 W, 5%	1302602	44
					2	Q1,Q8	TRANSISTOR, 2N4938	1509700	45
					7	Q3,Q5,Q6,Q7,Q9,Q12,Q13	TRANSISTOR, XA89	1510705	46
					1	Q4	TRANSISTOR, XA55	1510706	47
					1	Q10	TRANSISTOR, C32AX135	1510928	48
					2	Q2,Q10	TRANSISTOR, 2N5038	1510969	49
					1	Q11	TRANSISTOR, 2N5433	1511888	50
					2	L1,L2	INDUCTOR, 500uh	1812593	51
					2	E1,E3	I.C. DEC 301A	1910282	52
					2	E2,E4	I.C. DEC 555	1911844	53
					1	J1	CABLE ASSY	7011414 -0E	54
QTY	REF. DESIGNATION		DESCRIPTION					PART NO.	ITEM NO.

PARTS LIST

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

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

SEMICONDUCTOR CONVERSION CHART

FIRST USED ON OPTION MODEL

ETCH BOARD REV. D

REV.	CHANGE NO.	DATE	BY
J		2-9-77	J. SOLIO
H	5411599-00003	7 JUL 77	B. COURTEMANCHE
F	5411599-00002	7 JUL 76	C. POTTER
E	5411599-00001	6 AUG 76	C. POTTER

DSGN		DATE 11/7/75
CHK'D		DATE
ENG.		DATE
PROJ.		DATE
MFGR		DATE

NEXT HIGHER ASSY: E-UA-H777-0-0

SCALE

SHEET 1 OF 2

digital

TITLE: +20V - REGULATOR/H777

SIZE D | CODE | NUMBER DCS 5411599-0-1 | REV. J

DIST.

LAST CHG D 5411599-0-1

DEC FORM NO. DNO 1315

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5411599-0-1

RAW DC
F1 15A
L1
SW .05 28
+20 V
GND
+15V
CLK
-15V
+20V OFF
-5V
J1
Q1 2N4936
Q2 2N5138
Q3 A05
Q4 A55
Q5 A05
Q6 A05
Q7 A05
Q8 2N4936
Q9 A05
Q10 2N5138
Q11 2N5433
Q12 A05
Q13 A05
D1 D672
D2 D672
D3 D672
D4 D672
D5 D672
D6 D672
D7 D672
D8
D9 A114B
D10 MR1338
D11 IN1976
D12 5.1V 2%
D13 5.1V 2%
D14 D672
D15 D672
D16 D672
D17 IN3256
D18 C32AX135
D19 2N5062
D20 D672
D21 D672
D22 IN4742
D23 IN753A
C1 1800UF
C2 .01UF
C3 .01UF
C4 180UF
C5 12,000UF
C6 .01UF
C7 100pf
C8 .01UF
C9 1UF
C10 33PF
C11 1.5UF
C12 10UF
C13 33pf
C14 .01uf
C16 12,000UF
C18 1800UF
C21 180UF
C22 180UF
C23 180UF
C24 .01UF
C25 .01UF
C26 .47UF
C27 1UF
C28 1 UF
C29 22uf 20v
C30 .01UF
C31 220 PF
R1 1 2W
R2 39Ø
R3 1Ø
R4 1K 1W
R5 27
R6 1K
R7 1KØ 1W
R8 .05 2W
R9 .1ØØ
R10 2.7K
R11 3.3KØ
R12 1K
R13 4.7K
R14 2.7K
R15 4.7K
R16 4ØK
R17 1K
R18 18ØK
R19 2K
R20 56
R21 8.25K 1%
R22 2.74K 1%
R23 1K
R24 4.7K
R25 1.5K
R26 18ØK
R27 4.7K
R28 1ØK
R29 1ØK
R30 2.7K
R31 1K
R32 1 2W
R33 39Ø
R34 33Ø 2W
R35 1Ø
R36 18K
R37 1ØKØ
R38 1ØK
R39 1ØØ
R40 24Ø 1ØØ
R41 1ØØ
R42 4.7K
R43 1ØØ
R44 1ØØ.1
R45 1ØØ.1
R46 18K
R47 200 1/4W
R48 1K
L2
DS1 VTH CTL
555 E2
555 E3
555 E4
CTL VTH DCG
3C1A E3
3C1A E2
3J1A E1
TRIG
OUT
GND
VCC

REVISIONS
CHK | CHANGE NO | REV.

TITLE +20V REGULATOR/H777
SCALE
SHEET 2 OF 2
SIZE D CODE CS NUMBER 5411599-0-1 REV. J
DIST.

P A R T S L I S T

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION AA	AB	BA	BB	CA	CB	DA	DB	UA	UB
1	1	D-IA-7011248-0-0	7011248-00	POWER SUPPLY CHASSIS	1	1	1	1	0	0	0	0	0	0
2	2		9007031-00	TIE,CABLE BUNDL.DIA 0- 3/4"=101	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
3	3	D-AD-7011075-0-0	7011075-00	CONTROL ASSY	1	0	1	0	0	0	0	0	0	0
4	4	D-AD-7011075-0-0	7011075-01	A/C INPUT ASSY (120V/230V)	0	1	0	1	0	0	0	0	0	0
5	5		9007035-00	GROMMET,CATERPILLAR POLYAMIDE	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
6	6		9006563-00	NUT,KEP 8-32X 11/13AF	2	2	2	2	2	2	2	2	2	2
7	7	E-MD-7413825-0-0	7413825-00	POWER SUPPLY COVER	1	1	1	1	0	0	0	0	0	0
8	8	D-AD-7011073-0-0	7011073-00	+5V REG ASSY	1	1	1	1	0	0	0	0	0	0
9	9	D-CS-5411601-0-1	5411601-01	MOS REGULATOR 15V	1	1	1	1	1	1	1	1	1	1
10	10		9006021-01	SCREW,MACH PAN PHIL 6-	4	4	2	2	3	3	1	1	3	3
11	11		9008509-00	STRAIN,RELIEF,BUSHING,NYLON	1	1	1	1	0	0	0	0	0	0
12	12	D-IA-7012320-0-0	7012320-00	POWER CORD 115V (H777-B)	1	0	1	0	0	0	0	0	0	0
13	13	D-IA-7012320-0-0	7012320-01	POWER CORD 230V (H777-B)	0	1	0	1	0	0	0	0	0	0
14	14		9006022-01	SCREW,MACH PAN PHIL 6-	6	6	4	4	3	3	1	1	3	3
15	15		9006433-00	WASHER,LOCK INTERNAL STEEL	10	10	6	6	3	3	1	1	3	3
16	16		9009771-02	CLAMP, CABLE,PVC, 3/8"ID,SELF ST	2	2	2	2	0	0	0	0	0	0
17	17		1217715-02	FAN,TUBE AXIAL 4.5" 120CFM 120V	1	1	1	1	1	1	1	1	1	1
18	18		9006020-02	SCREW,MACH FLAT PHIL 6-	2	2	2	2	0	0	0	0	0	0
19	19		9009185-00	NUT,KEP 6-32X 1/4 AF	0	0	0	0	2	2	2	2	2	2
20	20	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-
21	21		9006074-03	SCREW,MACH TRUSS PHIL 10-	4	4	4	4	4	4	4	4	4	4
22	22		9007651-00	WASHER,LOCK EXTERNAL STEEL	4	4	4	4	4	4	4	4	4	4
23	23	C-IA-7413773-0-0	7413773-00	FAN SUPPORT	2	2	2	2	2	2	2	2	2	2
24	24		1210984-05	PLASTIC SHEET,ABS,.030X9.00X1.5	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
25	25	B-DC-7414744-0-0	7414744-00	DECAL H777 PS	1	1	1	1	0	0	0	0	0	0
26	26	A-PS-3612690-0-0	3612680-00	DECAL, GROUND SIGN PER 3E6 *	2	2	2	2	2	2	2	2	2	2
27	27	C-IA-7011412-0-0	7011412-0F	CHASSIS GND CABLE (BA11-L)	1	1	1	1	1	1	1	1	1	1
28	28	C-IA-7011412-0-0	7011412-1H	CHASSIS GND CABLE (BA11-L)	0	0	0	0	1	1	1	1	1	1
29	29	D-CS-5411599-0-1	5411599-01	TZOV REG H777 NO FAT TEST	1	1	0	0	1	1	0	0	0	0
30	30		9007015-00	GROMMET,ROUND RUBBER	0	0	0	0	1	1	1	1	1	1

REVISION HISTORY		
ENG	ECO NUMBER	REV
---	INITIAL	S

BASIC PART NO: 0H777

SECTION A OF A

SECTION. VARIATION INDEX
[A] AA,AB,BA,BB,CA,CB, DA,DB,UA,UB
[B]
[C]
[D]
[E]
[F]

DRN: T.ROCHA	DATE: 15-MAR-82
CHK'D: D.HEALY	DATE: 15-MAR-82
DES.ENG.: R.BARRY	DATE: 15-MAR-82
RESP.ENG.: R.BARRY	DATE: 15-MAR-82
MFG.ENG.: R.KING	DATE: 15-MAR-82
ASSEMBLY NUMBER: E-UA-H777-0-0	TOP DOCUMENT NUMBER: B-DD-H777-0-0

D I G I T A L

TITLE PARTS LIST

POWER SUPPLY ASSY

DOCUMENT NUMBER

SIZE	CODE	NUMBER	REV
K	PL	H777-0-DBP	S

FILE NAME: Z4175S.PLS

EDIT # 8

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PARTS LIST

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION AA	AB	BA	BB	CA	CB	DA	DB	UA	UB
31	31	D-IA-7417407-0-0	7417407-00	CHASSIS P.S.	0	0	0	0	1	1	1	1	1	1
32	32	D-AD-7012910-0-0	7012910-00	A/C INPUT ASSY 230V	0	0	0	0	1	0	1	0	1	0
33	33	D-AD-7012910-0-0	7012910-01	A/C INPUT ASSY	0	0	0	0	0	1	0	1	0	1
34	34	E-IA-7417018-0-0	7417018-00	COVER POWER SUPPLY	0	0	0	0	1	1	1	1	1	1
35	35	A-PS-1213773-0-0	1213773-00	CONN,POWER 03P05W RCPT NEMA 06-1	0	0	0	0	1	1	1	1	1	1
36	36	A-PS-1212877-0-0	1212877-00	FILTER,LINE,115/250V,47-400HZ,FA	0	0	0	0	1	1	1	1	1	1
37	37	D-AD-7012909-0-0	7012909-00	+5V REGULATOR ASSY	0	0	0	0	2	2	2	2	2	2
38	38		9009771-01	CLAMP, CABLE, PVC, 1/4"ID,SELF S	0	0	0	0	1	1	1	1	1	1
39	39		9006024-01	SCREW,MACH PAN PHIL 6-	4	4	4	4	1	1	1	1	1	1
40	40		9008404-02	SCREW,MACH FLAT PHIL 6-	0	0	0	0	A/R	A/R	A/R	A/R	A/R	A/R
41	41		9107253-02	TUBING,SHRINK .250ID EXP	0	0	0	0	REF	REF	REF	REF	REF	REF
42	42	C-IA-7417288-0-0	7417288-00	WIRE A.C. CONN. HARNESS	0	0	0	0	1	1	1	1	1	1
43	43	A-PS-3617382-0-0	3617382-00	LABEL,POWER SUPPLY H777	0	0	0	0	1	1	1	1	1	1
44	44		9006037-01	SCREW,MACH PAN PHIL 8-	0	0	0	0	1	1	1	1	1	1
45	45		9006634-00	WASHER,LOCK INTERNAL STEEL	0	0	0	0	1	1	1	1	1	1
46	46	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-
47	47		9006011-01	SCREW,MACH PAN PHIL 4-	2	2	2	2	2	2	2	2	2	2
48	48		9006632-00	WASHER,LOCK INTERNAL STEEL	0	0	0	0	2	2	2	2	2	2
49	49		9008020-02	SCREW,MACH FLAT PHIL 6-	0	0	0	0	0	0	0	0	0	0
50	50	D-IA-7011411-0-0	7011411-1L	CONSOLE CABLE (5412572)	1	1	1	1	REF	REF	REF	REF	REF	REF
51	51		9006022-03	SCREW,MACH TRUSS PHIL 6-	0	0	0	0	4	4	2	2	4	4
52	52	C-IA-7013938-1-0	7013938-01	CABLE JUMPER	0	0	0	0	1	1	1	1	1	1
53	53	C-IA-7013938-0-0	7013938-00	CABLE JUMPER ASSY	0	0	0	0	1	1	1	1	1	1
54	54	C-IA-7013939-0-0	7013939-00	UNIT ASSY	0	0	0	0	1	1	1	1	1	1
55	55		1700083-05	PWR CORD,TERM.108IN,14-3,125V 15	0	0	0	0	1	0	1	0	1	0
56	56		1700083-04	PWR CORD,TERM.108IN,14-3,250V 6	0	0	0	0	0	1	0	1	0	1
57	57		9006656-00	WASHER,FLAT STEEL	4	4	2	2	3	3	3	3	3	3
58	58		9006025-01	SCREW,MACH PAN PHIL 6-	3	3	3	3	3	3	3	3	3	3
59	59		9006560-00	NUT,KEP 6-32X 5/16AF	3	3	3	3	3	3	3	3	3	3
60	60	C-IA-7011412-0-0	7011412-3C	CABLE ASSEMBLY	1	1	1	1	0	0	0	0	0	0
61	61		9006561-00	NUT,HEX 8-32 X5/16AF X .7	1	1	1	1	0	0	0	0	0	0
62	62	C-IA-7011414-0-0	7011414-1F	H777 POWER CONTROL CABLE (CONSOL	REF	REF	REF	REF	0	0	0	0	0	0
63	63		9009255-00	LABEL, POWER SUPPLY, 2-15/16 " L	1	1	1	1	1	1	1	1	1	1
64	64	A-PS-3614833-0-0	3614833-00	DECAL,ADH BACK-CAUTION-CAPACTOR	0	0	0	0	1	1	1	1	1	1
65	65	D-UA-5413764-0-0	5413764-00	PLUS OR MINUS 15V POWER SUP.	0	0	0	0	0	0	0	0	1	1
66	66	A-PS-3617413-0-0	3617413-00	LABEL,ATTENTION FOR 11/24	0	0	0	0	0	0	0	0	1	1
67	67	A-PS-3618858-0-0	3618858-01	LABEL,SCREW LENGTH	1	1	1	1	1	1	1	1	1	1
68	68	A-PS-3700603-0-0	3700603-00	PKG POWER SUPPLY H777	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF

DIGITAL	TITLE	SECTION	SIZE	CODE	DOCUMENT NUMBER	REV
	POWER SUPPLY ASSY	A OF A	K	PL	H777-0-DBP	S

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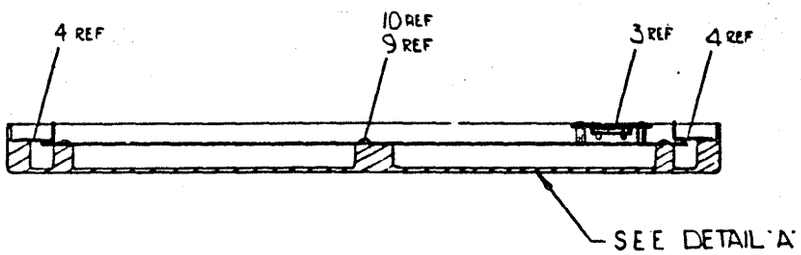
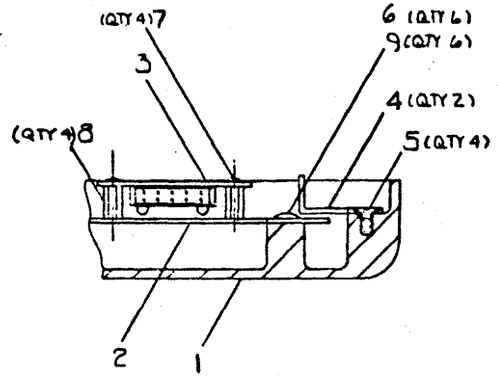
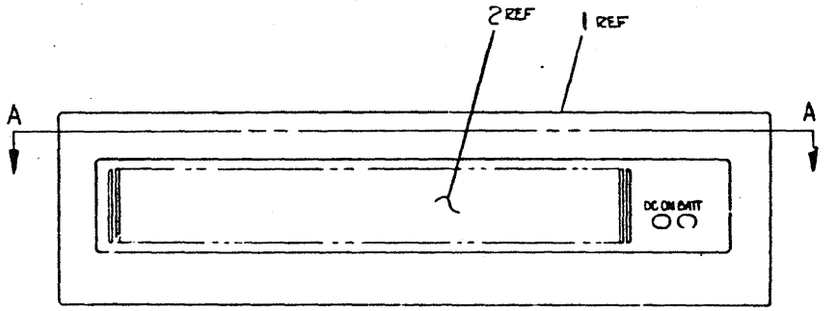
NOTES:
1. TO SELECT STAND BY/MODE, ON MODE OR OFF MODE SEE D-CS-5411501-0-1.



SECTION A-A



DETAIL "A"
SCALE 1/1



CAUTION: SEE OFF SHEET PARTS LIST
K-PL-7012540-0-DBP
(Z3343B.PLS)

REVISIONS			
CHK	CHANGE NO.	REV.	
	7012540-000011	A	STF to FAB & ASSY
	7012540-1W002	B	Assy Issue 2 Sht 1

P.L. ORUSSO 30AUG81
S. HOYLE

DESCRIPTION						DWG./PART NO.	ITEM NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES								
ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES						
		OVER 0 TO 0.6	OVER 0.6 TO 1.2	OVER 1.2 TO 2.5	OVER 2.5 TO 7.0	OVER 7.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
SURFACE QUALITY 16 MICROINCHES	MEDIUM ☐	±.006	±.008	±.012	±.010	±.024	±.06	
	PREFERRED ☐	±.012	±.016	±.020	±.06	±.120	±0.1	

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL: SEE PARTS LIST

FINISH

DRN
CHK'D
ENG
PROJ. ENG. PB
PROD. PB

NEXT HIGHER ASSY.: E-UA-BAN-L-0

SCALE 1/2

SHEET 1 OF 1

FIRST USED ON 1104

digital

TITLE: CONSOLE ASSY EXPANDER BOX

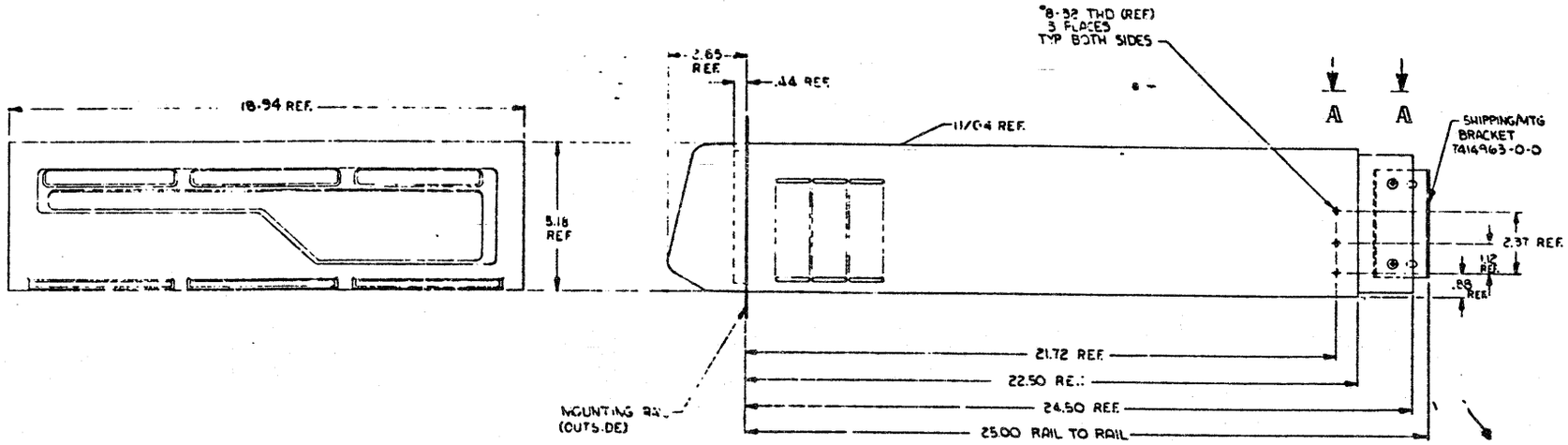
SIZE D | CODE AD | NUMBER 7012540-0-0 | REV. B

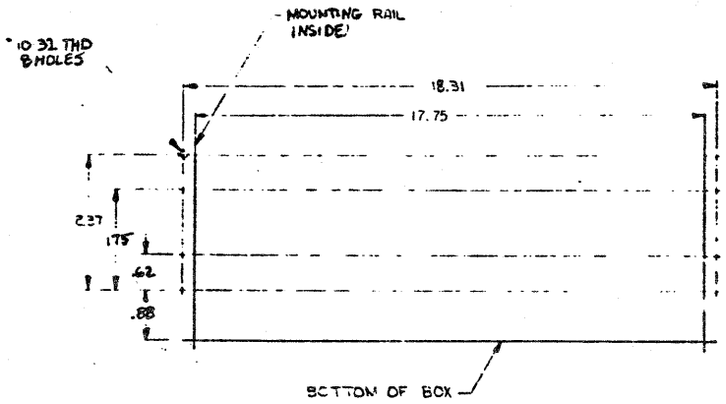
DIST.

TW

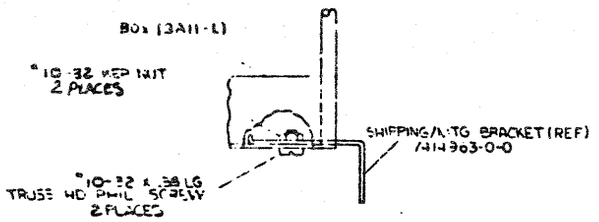
NOTES:

1. SHOWN IN MTG BRACKET POSITION. ALSO SHOWN 180° FROM MTG POSITION & SHIPPING POSITION.
2. BECAUSE OF U.L. REQUIREMENTS, THE REAR OF THE POWER SUPPLY MUST BE COVERED. THE GUARD SHOWN IS TO BE INSTALLED ON UNITS THAT DON'T HAVE THE NEW PWR SUPPLY WITH CLOSED ENDS. THERE SHOULD BE APPROX. 500 UNITS THAT WILL REQUIRE THIS RETROFIT.

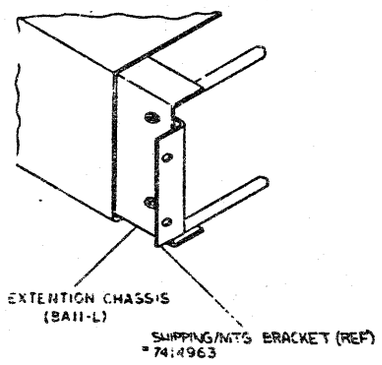


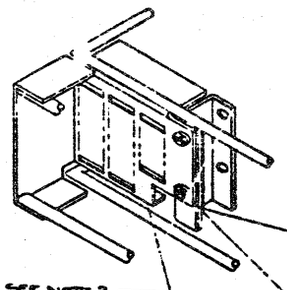


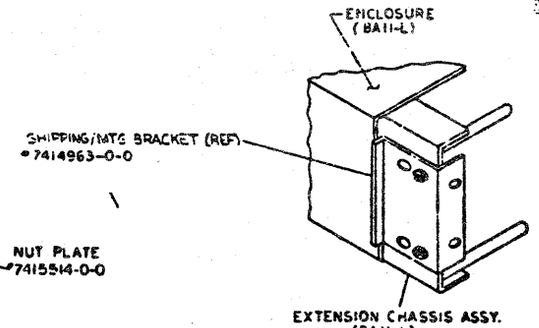
HOLE PATTERN REQ'D



VIEW A-A
NO SCALE
SEE NOTE 1







DRWG		FIRST USED ON	11/04
ENG		TITLE	INSTALLATION AD
PROD		SIZE	A
MATERIAL		DWG NO	7012588-0-0
FINISH		SCALE	NO SCALE
		SHEET	1 OF 1

AD 7012588-0-0 X01

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

DRAWING DIRECTORY

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~~CUSTOMER PRINT SET INDEX~~

~~THIS IS PRINT SET~~

SEQUENCE

SEQUENCE

NOTE:
FOR FIELD MAINTENANCE
PRINT SET REFER TO
B-TC-BA11-L-1

UNIT VARIATIONS

PRINT SET

VAR	TITLE
BA11-LA	5.25 BOX, H777-AA P.S. 115V
BA11-LB	5.25 BOX, H777-AB P.S. 230V
BA11-LC	5.25 BOX, H777-BA P. S. 115V
BA11-LD	5.25 BOX, H777-BB P. S. 230V
BA11-LE	5.25 EXPANDER BOX, H777-CA P. S. 115V
BA11-LF	5.25 EXPANDER BOX, H777-CB P. S. 230V
BA11-LH	5.25 EXPANDER BOX, H777-DA P. S. 115V
BA11-LJ	5.25 EXPANDER BOX, H777-DB P. S. 230V
BA11-LK	5.25 BOX & H777CA 115V CORE & MOS
BA11-LL	5 25 BOX & H777CB 230V CORE & MOS
BA11-LM	5.25 BOX & H777DA 115V MOS ONLY
BA11-LN	5.25 BOX & H777DB 230V MOS ONLY
BA11-LX	5.25 BOX & H777UA P.S., 120V
BA11-LY	5.25 BOX & H777UB P.S., 240V

REVISIONS DATE	CHG. NO.	REV
4-76	BA11-L-4	A
10-76	BA11L-6	B
1-77	BA11L-7	C
3-77	BA11L-8	D
4-77	BA11L-9	E
5-77	BA11-L-10	F
7-77	BA11L-11	H
10-80	BA11-L-20	J
11-80	BA11-L-21	K
4-81	BA11-L-22	L
10-81	BA11-L-23	M

USED ON OPTION/MODEL	
11/04	
11/34	
11/24	

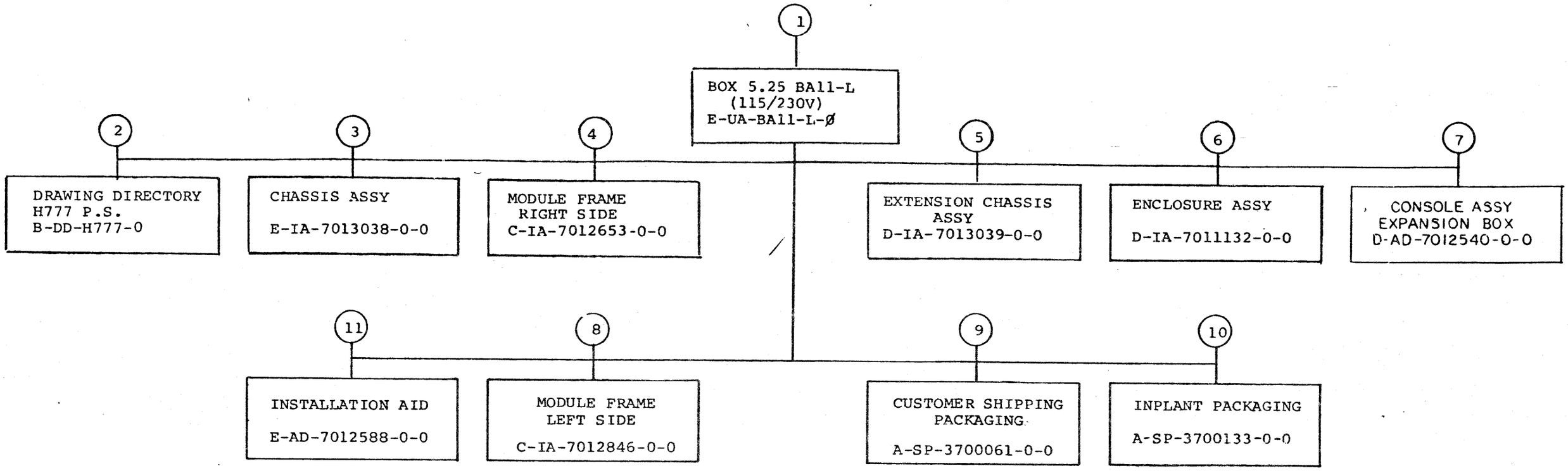
SHEET 1 OF 4

DRN. G. MARINI	DATE 9/3/75	TITLE: DRAWING DIRECTORY BA11-L
CHK'D. D. HEALY	DATE 9/30/75	
PROJ ENG. R Barry	DATE 10-22-75	
PROD. RK Peterson	DATE 10/21/75	SIZE B / CODE DD / NUMBER BA11-L / REV M
~~FIELD SERV.~~	~~DATE~~	DIST

TW

EN-01062-1A-16-R972-(325)

DRB 106



TITLE		SIZE	CODE	NUMBER	REV
DRAWING DIRECTORY BA11-L	SHEET 2 OF 4	B	DD	BA11-L	M

DRB 107
DEC 16-,325)-1062-3-N871

ELECTRICAL (SECTION 1)

CUSTOMER PRINT SET	MFG SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO	FILE DATE
		1	E-UA-BA11-L-Ø		1	BOX 5.25 BA11-L 115/230V		
			A-PL-BA11-L-Ø		3	BOX 5.25 BA11-L 115/230V (PL)		
			~~D-UA-BC11A-10-0~~		~~1~~	~~UNIBUS CABLE 10 FT~~		
			B-CS-M919-0-1		1	BUS CONNECTOR M919		
			B-CS-M929-0-1		1	BUS CONNECTOR M929		
			1217715-02			FAN 4 1/2 DIA 50/60 HZ *		
		2	B-DD-H777-B		4	DRAWING DIRECTORY H777		
		7	D-AD-7012540-0-0		1	CONSOLE ASSY, EXPANSION BOX		
			D-CS-5411501-0-0		1	BA11-L EXP. BOX CONTROL		
			* REPLACES 1213013-00					

MECHANICAL (SECTION 2)

CUSTOMER PRINT SET	MFG SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO	FILE DATE
		1	E-UA-BA11-L-Ø		1	BOX 5.25 BA11-L (115/230V)		
			B-MD-7413846-0-0		1	BAR, CABLE STRAIN RELIEF		
			C-IA-7011412-0-0		1	CABLE, CHASSIS GND		
			C-MD-7414963-0-0		1	BRKT., SHIPPING AND CAB MOUNT		
			A-PL-BA11-L-Ø		3	BOX 5.25 BA11-L 115/230V (PL)		
			A-DC-5309413-0-0		1	DECAL NFPA		
			A-DC-5309414-0-0		1	DECAL UL		
			B-PL-BA11-L-5		1	INSTALLATION KIT		
			C-MD-7425811-0-0		1	SHIPPING BRKT—11/24		
		2	B-DD-H777-B		4	DRAWING DIRECTORY H777 P.S.		
		3	E-IA-7013038-0-0		1	CHASSIS ASSY		
			C-MD-7414236-0-0		1	FRAME, CHASSIS		
			C-MD-7413855-0-0		1	BRACKET MTG (LH)		
			C-MD-7413852-0-0		1	BRACKET MTG (RH)		
			C-MD-7413853-0-0		1	BRACKET, FRAME		
			C-IA-7414442-0-0		1	BRACKET LOGIC SUPPORT (BOT)		
			C-IA-7414441-0-0		1	BRACKET LOGIC SUPPORT (BOT)		
			C-MD-7413857-0-0		1	BRACKET MAIN SUPPORT		
			C-MD-7413858-0-0		1	BRACKET, SUPPORT		
			B-MD-7414237-0-0		1	ROD CONNECTING CHASSIS		
			B-MD-7413856-0-0		1	BRACKET, FAN MOUNTING		
			B-MD-7414235-0-0		1	SUPPORT DIAGONAL ROD		
			C-MD-7413854-0-0		1	BRACKET POWER SUPPLY SUPPORT		
			B-IA-7414443-0-0		1	CLAMP PLATE CABLE		
			C-MD-7417221-0-0		1	ROD MODULE RETAINER		
			C-MD-7419019-0-0		1	BRACKET, MODULE FRAME STIF.		
		4	C-IA-7012653-0-0		1	MODULE FRAME RIGHT HAND		
			C-MD-7414084-0-0		1	BRACKET EJECTOR (MODULE FRAME)		
			C-MD-7414082-0-0		1	BRACKET BACKPLANE (MODULE FRAME)		
			C-MD-7416516-0-0			ROD, MODULE FRAME		
			C-MD-7416517-0-0			BRACKET, CARD GUIDE		

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	SIZE	CODE	NUMBER	REV
DRAWING DIRECTORY BA11-L	B	DD	BA11-L	M

SHEET 3 OF 4

digital EN-01062-28-16-R972-(325)

TW

MECHANICAL (SECTION 2)

CUSTOMER PRINT SET	MFG SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO. FILE DATE
		5	D-IA-7013039-0-0		1	EXTENSION CHASSIS ASSY	
			B-MD-7414086-0-0		1	ROD EXTENSION FRAME	
			C-MD-7417220-0-0			PLATE END RIGHT HAND	
			C-MD-7417239-0-0			PLATE END LEFT HAND	
		6	D-IA-7011132-0-0		1	ENCLOSURE ASSY	
			D-IA-7013868-0-0		1	ENCLOSURE BOTTOM	
			D-MD-7413869-0-0		1	ENCLOSURE TOP	
		7	D-AD-7412540-0-0		1	CONSOLE ASSY, EXPANSION BOX	
		8	C-IA-7012846-0-0			MODULE FRAME LEFT SIDE	
			C-MD-7414084-0-0			BRKT. EJECTOR L.H.	
			C-MD-7416517-0-0			BRKT. CARD GUIDE	
			C-MD-7414082-0-0			BRKT. BACKPLANE L.H.	
			C-MD-7416516-0-0			ROD	
		9	A-SP-3700061-0-0			PACKAGING INSTRUCTIONS CUST.	
			A-PS-9905647-0-0			FULL-TELESCOPE CAP	
			A-PS-9905648-0-0			FOAM PAD	
			A-PS-9905646-0-0			FOAM WITH CORRUGATED SIDEWALL ASSEMBLY	
			A-PS-9905734-0-0			STRAPPING (STEEL OR PLASTIC)	

MECHANICAL (SECTION 2)

CUSTOMER PRINT SET	MFG SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO. FILE DATE
		10	A-SP-3700133-0-0			PACKAGING IN-PLANT	
			A-PS-9905271-0-0			LAMINATED BUILDUPS SADDLE	
			A-PS-9905184-0-0			BEZEL PROTECTOR	
			A-PS-9905418-0-0			REGULAR SLOTTED CARTON	
			A-PS-9905129-7			POLY BAG	
			A-PS-9905729-0-0			3 IN. WIDE GLASFLEX TAPE	
		11	E-AD-7012588-0-0			INSTALLATION AID	

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		SIZE	CODE	NUMBER	REV
DRAWING DIRECTORY BA11-L	SHEET 4 OF 4	B	DD	BA11-L	M

digital EN-01062-2B-16-R972-(325)

TW

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY [signature] DATE 7/5/77	CHECKED DATE	SECTION
ENG DATE R Barry SEP 16	PROD DATE R Barry SEP 16	ISSUED SECT.

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY/VARIATION											
			BAIIL-LE	BAIIL-LF	BAIIL-LH	BAIIL-LJ		ALL OTHER	VARIATIONS GET ONLY ITEMS 1+2					
1	EK-BAIIL-MM	MAINTANCE MANUL	1	1	1	1		1						
2	MP00018	PRINT SET BAII-L	1	1	1	1		1						
3	D-UA-BC11A-10-0	CABLE UNIBUS 10FT	1	1	1	1								

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

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

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FIELD MAINTENANCE PRINT SET

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TABLE OF CONTENTS

FIELD MAINT. PRINT SET H777-0	B-TC-H777-0-2
POWER SUPPLY H777-0 SH2	E-UA-H777-0-0
POWER SUPPLY H777-0 (PL)	A-PL-H777-0-0
+5V REGULATOR ASSY.	D-AD-7012909-0-0
+5V REG. ASSY. (PL)	A-PL-7012909
BOARD, POWER DISTRIBUTION H777	D-CS-5411586-0-1
H777 +5V REGULATOR	D-CS-5412667-0-1
AC INPUT ASSY	D-AD-7012910-0-0
AC INPUT ASSY (PL)	A-PL-7012910-0-0
MOS REGULATOR H777	D-CS-5411601-0-1
CORE REGULATOR H777	D-CS-5411599-0-1
±15V REGULATOR	D-CS-5413764-0-1
±15V REGULATOR	K-PL-5413764-0-DBP
±15V REGULATOR	D-UA-5413764-0-0

UNIT VARIATIONS COVERED BY THIS PRINT SET
H777-CA (CORE/MOS)
H777-CB (CORE/MOS)
H777-DA (MOS ONLY)
H777-DB (MOS ONLY)
H777-UA (±15/MOS)
H777-UB (±15/MOS)

H777-0 VOL.2

Field Maintenance Print Set

Digital Equipment Corporation

PRINT SET ORDER NO.
MP00309

REVISIONS	DATE	CHG. NO.	REV.
	JAN-77	H777-2	-
ORIGINATED	3-78	H777-5	E
	7-80	H777-TW0008	F

USED ON OPTION/MODEL	
BA11-LA	BA11-LK
BA11-LB	BA11-LL
BA11-LC	BA11-LM
BA11-LD	BA11-LN
BA11-LE	BA11-LX
BA11-LF	BA11-LY
BA11-LH	
BA11-LJ	

SHEET 1 OF 1

DRN. W Fisher	DATE 18 Jan 77	TITLE: FIELD MAINTENANCE PRINT SET H777-0
CHK'D KIT	DATE 19 JAN 77	
PROJ. ENG.	DATE 25 JAN 77	
FIELD SERV.	DATE 27-Jan 77	

digital

SIZE	CODE	NUMBER	REV.
B	TC	H777-0-2	F

DIST.

TW

EN-0124-16-NOTS (321)

DRB 124

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WIRE CHART

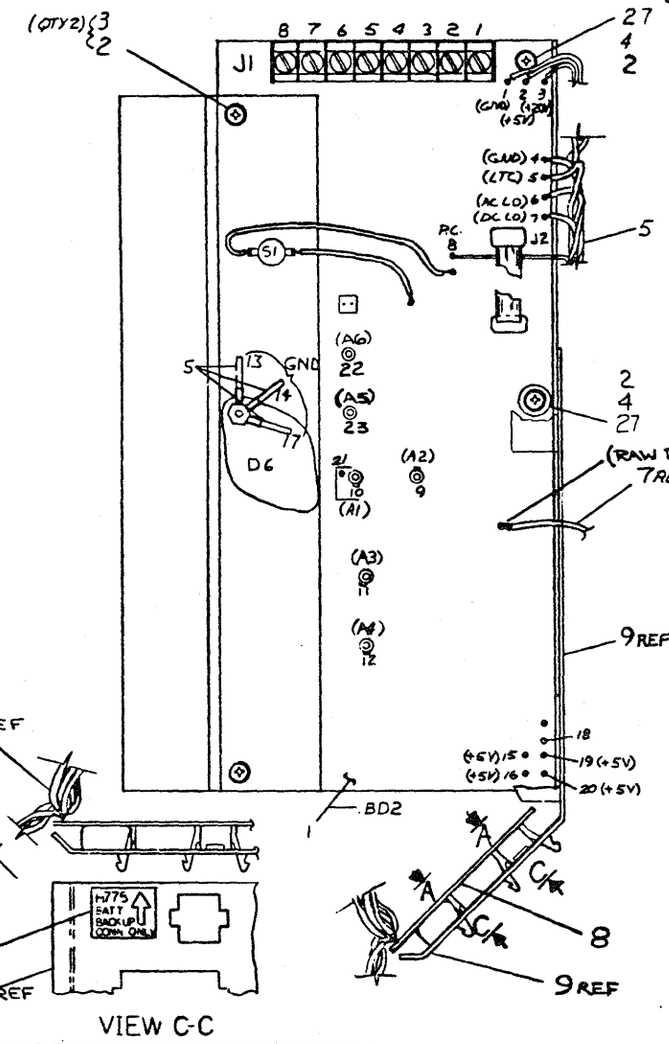
ITEM NO	DESCRIPTION AWG	COLOR	FROM POINT NO	FROM CONN	TO POINT NO	TO CONN
5	20	WHT	1	BD2-8	18	BD1-15
	14	BRN	2	2	9	1
	14	BLK	3	1	12	5
	14	ORN	4	3	13	7
	20	BRN	5	5	19	14
	20	BLK	6	4	20	16
	20	YEL	7	6	16	12
	20	VIO	8	7	17	13
	14	BLK	30	BD2-17	10	BD1-3

ITEM NO	DESCRIPTION AWG	COLOR	FROM POINT NO	FROM CONN	TO POINT NO	TO CONN
5	14	BLK	28	BD2-13	11	BD1-4
		RED	29	15	14	9
		RED	26	19	15	10
		BLK	25	14	21	17
		RED	24	16	22	18
	14	RED	27	BD2-20	23	BD1-20
7	18	BLU	1	BD1-21	*11	—
	14	BLK	2	BD1-18	*8	—
	18	RED	3	BD1-11	*14	—
30	14	RED	—	BD2-22	—	C2 (+)

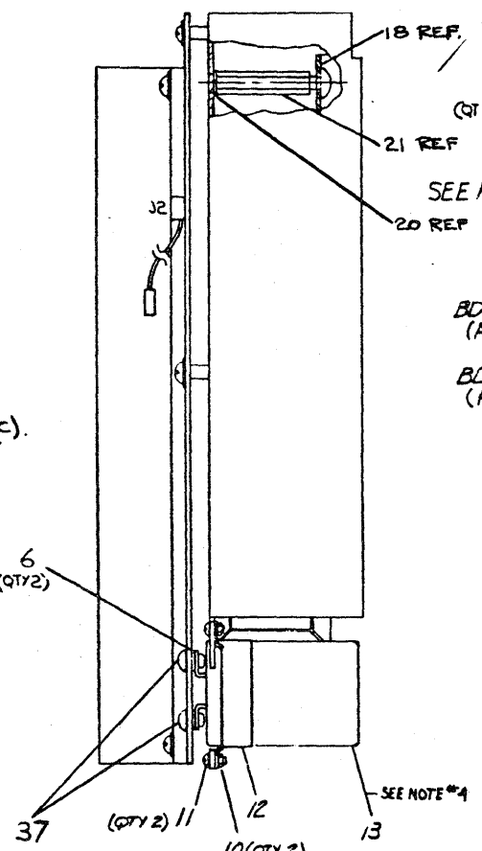
ITEM NO	DESCRIPTION AWG	COLOR	FROM POINT NO	FROM CONN	TO POINT NO	TO CONN
7	18	GRY	4	BD1-8	*9	—
	18	WHT	5	BD1-6	*10	—
	14	RED	6	BD2-21	*13	—
	18	GRN	7	BD1-2	12	—
21	14	GRN	—	C1(+)	—	C2(+)
25	14	GRN	—	C1(-)	—	C2(-)
23	14	RED	—	BD2-10	—	C1(+)
24	14	BLK	—	BD2-9	—	C1(-)
22	—	BARE	—	—	—	BD2-11
32	—	BARE	—	—	—	BD2-12
31	14	BLK	—	BD2-23	—	C2(-)

NOTES:

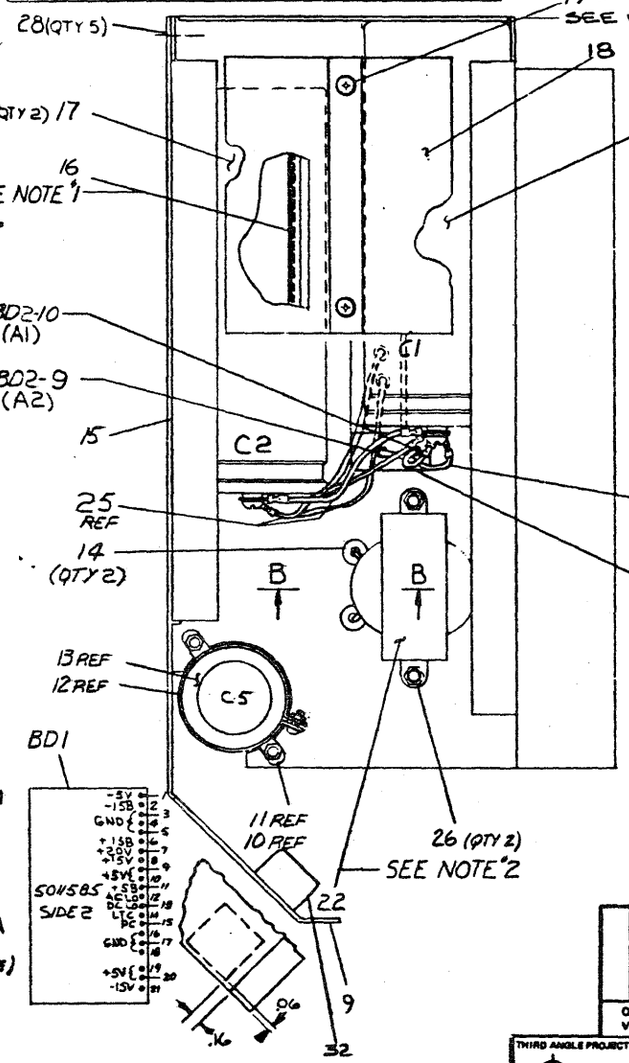
1. USE ITEM #16 (GROMMET) TO COVER RAW METAL EDGES UNDER CAPACITORS.
2. LEADS FROM ITEM 3 #22, 23 & 24 ARE TO BE CUT FLUSH WITH TOP OF CLAMPS ON ITEM #1. A1, A2, A3 & A4
3. * ASTERISK INDICATES THAT THESE CONN. ALREADY HAVE BEEN MADE ON PLUG P1 ON HARNESS D-IA-7011560-0-0 THEY ARE SHOW FOR REF ONLY.
4. ITEMS #17 & #13 ARE TO HAVE THEIR ELECTRICAL CONNECTIONS TORQUED TO 12 IN-LBS (-0,+10) IN-LBS.
5. BRING SCREW TO A NO SLACK POSITION, THEN TIGHTEN WITH 1/2 TO 3/4 TURN ONLY.
6. ITEMS #33 & #34 ARE NOT SHOWN.



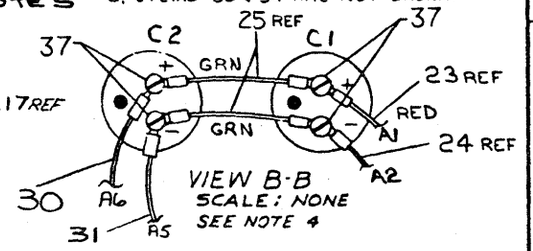
VIEW C-C



ITEM *9 NOT SHOWN IN THIS VIEW



VIEW A-A
SCALE: NONE
(WIRING SIDE)



VIEW B-B
SCALE: NONE
SEE NOTE 4

OFF SHEET PARTS LIST
SEE-K-PL-7012909-0-DBP

1	BUMPER	9009624	32
1	JUMPER, BLK	B-IA-7011802-0-0	31
1	JUMPER, RED	B-IA-7011801-0-0	30
1	DECAL, BATT BACKUP	A-DC-7416911-00	29
5	SCR FLAT HD #6-32 x .25	9006020-2	28
2	WASHER NYLON #8	9006708	27
2	NUT KEPS #8-32	9006569	26
2	JUMPER (GRN)	B-IA-7011800-0-0	25
1	JUMPER (BLK)	B-IA-7011802-0-0	24
1	JUMPER (RED)	B-IA-7011801-0-0	23
1	CHOKE	1673584	22
2	SPACER HEX #6-32 x 1.25	9009603	21
2	WASHER INT TOOTH LOCK #8	9006634	20
2	SCR PHIL HD TRUSS 8-32 x .38L	9009836-1	19
1	CLAMP CAPACITOR	C-MD-7417406-0-0	18
2	CAPACITOR .24 MUF 50V	1010702	17
A/R	GROMMET CATERPILLAR	9007035	16
1	BRACKET CAPACITOR	E-IA-7419743-1-0	15
2	GROMMET RUBBER	9007019	14
1	CAPACITOR 3900MF/6.0V (GS)	7012740-00	13
1	CLAMP CAPACITOR	9009052	12
2	SCR PHIL PAN HD #6-32 x .25L	9006020-1	11
2	NUT KEPS #6-32	9009185	10
1	PLATE, CAPACITOR CONN SIDE	D-IA-7417917-0-0	9
1	BOARD, PWR DISTR. H777	D-CS-5911584-0-1	8
1	HARNESS BD NOS PBS PWR DST	D-IA-7011560-0-0	7
2	WASH .375 O.D. x .13" ID x .036	9006660	6
1	HARNESS H777 +5V REG	D-IA-7011415-0-0	5
2	SCR PHIL HD PAN #6-32 x .31L	9006021-1	4
2	SCR PHIL HD PAN #6-32 x .50L	9006024-1	3
2	WASHER, INT TOOTH LOCK #6	9006633	2
1	H777+5V REG (REV E UP)	D-CS-5912607-0-1	1
	DESCRIPTION	DWG./PART NO.	ITEM NO.

REVISIONS	CHG.	CHANGE NO.	REV.
	CHK	H777-B-006006	A
	CHK	H777-00002	B
	CHK	7012909-00002	D
	CHK	7012909-00001	C
	CHK	7012909-M1004	F

R. COURTMANCHE 26MAR76
B. COURTMANCHE 26MAR76
R. DAY 26MAR76
B. GIST 26MAR76
E. ROCKLER 26MAR76
S. CORMIER 21MAR83
B. COGAN

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

ANGLES ±30'	GLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES: OVER 0 TO 0.3	OVER 0.3 TO 1.2	OVER 1.2 TO 12.0	OVER 12.0 TO 48.0	OVER 48.0 TO 96.0
SURFACE QUALITY IN MICROINCHES	MEDIUM	±.005	±.005	±.012	±.024	±.06
	PRESERVED	±.012	±.016	±.03	±.06	±.12

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL

FINISH

DWN [illegible] 17 MAY 76
CHK'D D. Manly 26 MAR 76
ENG [illegible] 17 MAY 76
PROJ. ENG R. Ramey 26 MAR 76
PROD [illegible] 18 MAY 76

NEXT HIGHER ASSY. D-IA-H777-0-0

SCALE

SHEET 1 OF 1

FIRST USED ON H777-C&D

digital

TITLE +5V REG ASSY

SIZE D | CODE AD | NUMBER 7012909-0-0 | REV. F | DIST.

BASE CODE D AD 7012909-00 REV F

DEC FORM 496 1080

AUTOMATED BY PRTLST.4Q(50) — P A R T S L I S T — SHEET A1 OF A2

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION 00
1	1	D-CS-5412667-0-1	5412667-00	PLUS 5 VOLT REG	1
2	2		9006633-00	WASHER,LOCK INTERNAL STEEL	4
3	3		9006025-01	SCREW,MACH PAN PHIL 6-	2
4	4		9006023-01	SCREW,MACH PAN PHIL 6-	2
5	5	D-IA-7011415-0-0	7011415-00	H777 POWER HARNESS FOR +5 REG	1
6	6		9006660-00	WASHER,FLAT SST	2
7	7	D-IA-7011560-0-0	7011560-00	CABLE HARNESS MOS REG/P DIST	2
8	8	D-CS-5411586-0-1	5411586-01	PWR BD DISTR (H777)	1
9	9	D-IA-7417017-0-0	7417017-00	PLATE,CAPACITOR CONNECTOR SIDE	1
10	10		9008185-00	NUT,HEX EXT TOOTH LCKWSHR 6-32	2
11	11		9006020-01	SCREW,MACH PAN PHIL 6-	2
12	12		9009052-00	CLAMP, CAPACITOR, 1-3/8 DIA.	1
13	13		1012740-00	3900 MFD 6V+100-20% AL EL	1
14	14		9007017-00	GROMMET,ROUND RUBBER	2
15	15	E-IA-7423743-1-0	7413743-01	BRKT CAPACITOR	1
16	16		9007035-00	GROMMET,CATERPILLAR POLYAMIDE	A/R
17	17		1010702-00	24,000 MFD 50V +75-10% AL EL	2
18	18	C-MD-7417408-0-0	7417408-00	CLAMP CAPACITOR	1
19	19		9009836-01	SCREW,MACH TRUSS PHIL 8-	2
20	20		9006634-00	WASHER,LOCK INTERNAL STEEL	2
21	21		9008258-00	SPACER,THREADED HEX ALUM 8-3	2
22	22		1612584-00	50 UH 30A	1
23	23	B-IA-7011801-0-0	7011801-00	JUMPER RED	1
24	24	B-IA-7011802-0-0	7011802-00	JUMPER BLK	1
25	25	B-IA-7011800-0-0	7011800-00	JUMPER GRN	2
26	26		9006563-00	NUT,HEX EXT TOOTH LCKWSHR 8-32	2
27	27		9006707-00	WASHER,FLAT NYLON	2
28	28		9000039-07	SCREW,MACH FLAT PHIL 6-	5
29	29	A-DC-7416911-0-0	7416911-00	DECAL, POWER SUPPLY	1
30	30	B-IA-7011801-0-1	7011801-01	JUMPER (RED)	1

REVISION HISTORY

ENG	ECO NUMBER	REV
RC	7012909-ML004	F

BASIC PART NO: 7012909

SECTION A OF A

SECTION. VARIATION INDEX
[A] 00
[B]
[C]
[D]
[E]
[F]

DRN: S. ROCHA	DATE: 29-JUL-76	DIGITAL
CHK'D: D. HEALY	DATE: 2-AUG-76	TITLE: PARTS LIST — +5V REG ASSY
DES.ENG.: R. COURTMACHE	DATE: 13-SEP-76	
RESP.ENG.: R. COURTMACHE	DATE: 13-SEP-76	
MFG.ENG.: R. BARRY	DATE: 13-SEP-76	

DOCUMENT NUMBER

SIZE	CODE	NUMBER	REV
K	PL	7012909-0-DBP	F

ASSEMBLY NUMBER: D-AD-7012909-0-0

TOP DOCUMENT NUMBER:

FILE NAME: Z6732F.PLS

EDIT # 3

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AUTOMATED BY PRTLST.4Q(50)

P A R T S L I S T

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION 00
31	31	B-IA-7011802-0-1	7011802-01	JUMPER(BLK)	1
32	32		9009624-00	BUMPER,SQUARE ADH BACK RUBBER	1
33	33		9009255-00	LABEL, POWER SUPPLY, 2-15/16 " L	1
34	34		9007031-00	TIE,CABLE BUNDL.DIA 0- 3/4"=101	2
35	35		9006071-01	*** THIS ITEM IS NOT USED ***	-
36	36		9006636-00	*** THIS ITEM IS NOT USED ***	-
37	37		9009667-00	SCREW,SEMS BINDR SLOT/ 10-	6

D	I	G	I	T	A	L	TITLE +5V REG ASSY	SECTION A OF A

SIZE	CODE	DOCUMENT NUMBER	REV
K	PL	7012909-0-DBP	F

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LEGEND	
PART NO	VARIATION
7012910-0	120 V
7012910-1	240 V
7012910-2	120V (50 HZ)

WIRE CHART

ITEM NO	DESCRIP AWG	DESCRIP COLOR	FROM CONN	FROM WITH	TO CONN	TO WITH	REMARKS
22	18	GR/WH	K1-4	SOLD,31	*TB2-33	SOLD	5 1/2" L
23	18	GR/WH	K1-6	"	*TB2-43	SOLD	5" L
24	18	WH/OR	K1-7		TB2-5H	2.5	5" L
26	18	WH/GR	K1-9		TB2-6H	2.5	5" L
27	18 TWP	GRY BLK	K1-A K1-B	SOLD,31	—	42	13 1/2" L 13 1/2" L
46	18	GR/OR	G2	SOLD	*TB2-63	SOLD	6" L
47	18	GR/BL	F1-1	SOLD,31	*TB2-43	SOLD	3" L
43	18 TWP	BRN BLU	CB1(-2) LOAD CB1(-1) LOAD	2.5,31 2.5,31	*TB2-6S *TB2-1S	SOLD SOLD	7 1/2" L 7 1/2" L
45	14 TWP	BLU BRN	CB1(-1) LINE CB1(-2) LINE		NOTE 6 NOTE 6	— —	17" L 17" L
15	18 TWP	WHT BLK	*TB2-7S *TB2-5S	SOLD SOLD	J2-2 J2-1	30,32 30,32	10" L 9" L
15	18 TWP	WHT BLK	*TB2-7S *TB2-5S	SOLD SOLD	J3-2 J3-1	30,32 30,32	16" L 15 1/2" L

ITEM NO	DESCRIP AWG	DESCRIP COLOR	FROM CONN	FROM WITH	TO CONN	TO WITH	REMARKS
1	18 TWP	BLK BR/WH	T1	—	TB2-1H TB2-3H	— —	— —
	18 TWP	RED RD/WH	T1	—	TB2-2H TB2-4H	— —	— —
47	18	GY/BL	G3	SOLD	F1-2	SOLD,31	4" L
35	18	BLK	TB2-1H	—	TB2-2H	—	120V
36	18	WHT	TB2-3H	—	TB2-4H	—	120V
35	18	BLK	TB2-2H	—	TB2-5H	—	230V
13	22	BARE	R1-A	—	G3	SOLD,33	
13	22	BARE	R1-B	—	G2	SOLD,33	
48	18	BL/WH	K1-8	SOLD,31	TB2-1S	25	4" L
49	18	WH/BL	K1-5	SOLD,31	TB2-7H	25	5 1/2" L

7012910-0 7012910-2	120V
7012910-1	240V

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

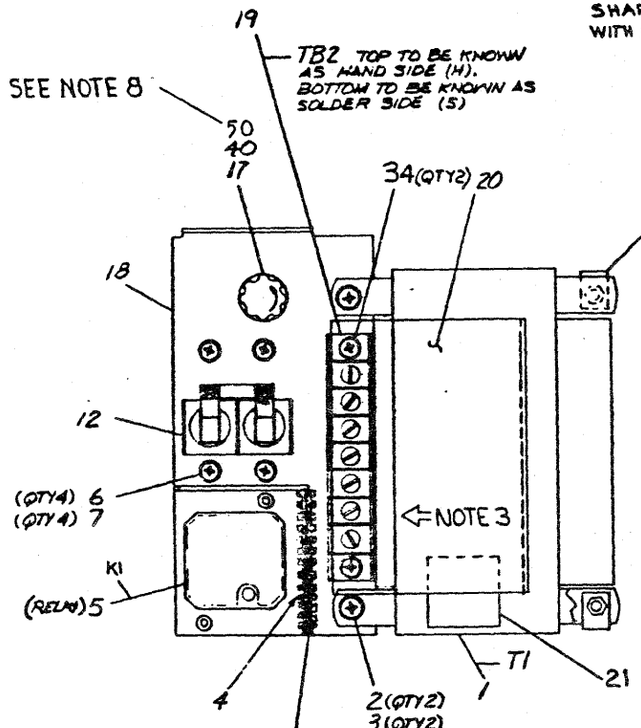
SEE NOTE 2, SEE DETAIL 'E'

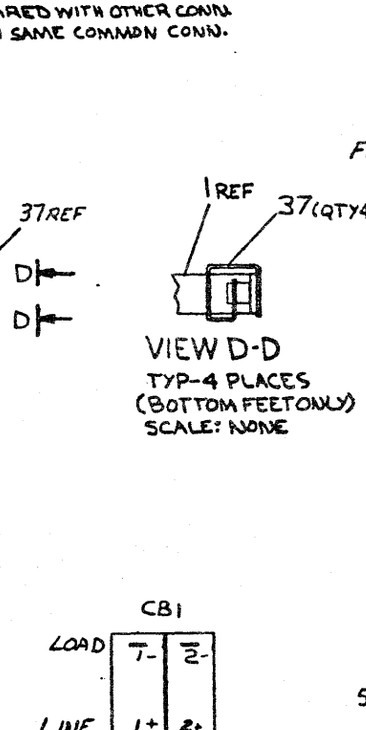
1 SEE NOTE 2, SEE DETAIL 'C'

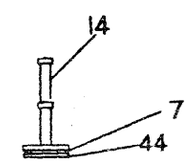
NOTES:

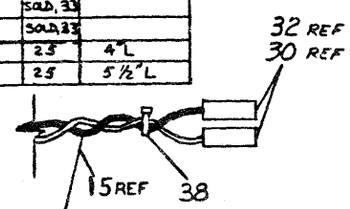
~~1. COVER ITEM 36 WITH ITEM 31 COVER ENTIRE CONN.~~

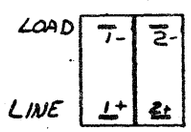
2. TWISTED PAIR WIRE TO HAVE A MIN OF 8 TWIST PER FT. AS PER WIRE CHART.
3. ALL CONNECTIONS TO TB2 ARE TO BE MADE FROM SIDE INDICATED BY ARROW.
4. USE TIE WRAPS (ITEM 36) AS NEEDED.
5. T1 PRIMARY WIRES TO TB2 MUST BE ROUTED BY ITEM 4
6. NO CONNECTION IS MADE AT THIS ASSY. LEVEL. REFER TO PRINT E-UA-H777-0-0.
7. FOR VARIATION -0,-1 USE ITEMS 16 AND 13. FOR VARIATION -2 SEE DETAIL "F".
8. FOR VARIATION -0,-1 USE ITEM 40. FOR VARIATION -2, USE ITEM 50
9. TWIST LEADS AND SOLDER. CUT LEADS AND USE SHRINK TUBING FOR INSULATION.

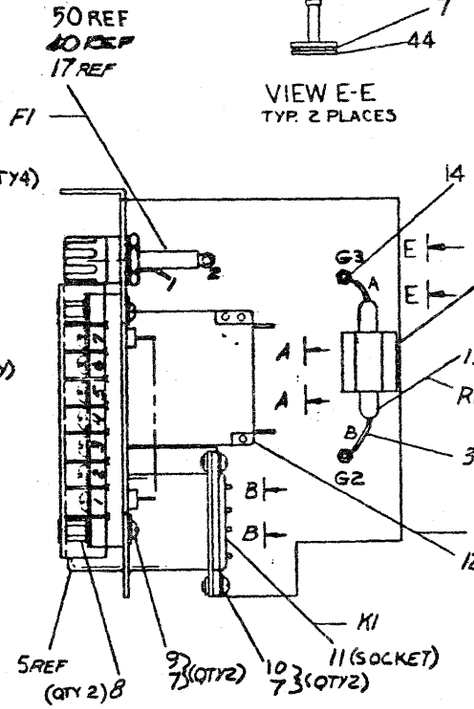


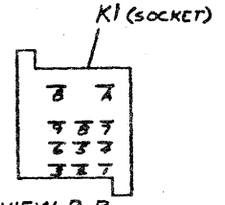


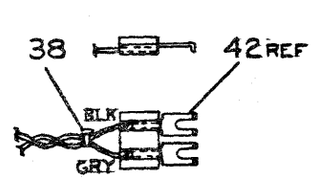


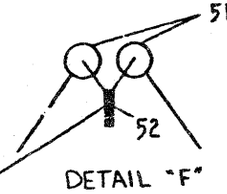












CAUTION: OFF SHEETS PARTS LIST EXISTS.
SEE K-PL-7012910-0-DBP (Z468)

REVISIONS			
CHG	CHANGE NO.	REV.	
ORIGINATED	H777-8-B0004	E	22 Nov 77
B. COURTEMANCHE	H777-00002	F	6 Dec 77
C. POTTER	7012910-00001	F	6 Dec 77
R. DAY	7012910-00002	H	31 Mar 78
R. DAY	7012910-00003	J	5 Oct 77
R. DAY	7012910-00004	K	13 Jun 78
B. GIST	7012910-00005	L	14 Feb 78
B. GIST	7012910-ML006	M	7-7-78
A. BARON	7012910-ML007	N	7-7-78
W.F. BAUSHA			

QUANTITY & VARIATION	DESCRIPTION	DWG./PART NO.	ITEM NO.
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
THIRD ANGLE PROJECTION	DRWN R. Day 22-Nov-77	FIRST USED ON H777-C & D	digital
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D B. Courtemanche 6-Dec-77	TITLE AC INPUT ASSY (120V/240V)	
DO NOT SCALE DWG.	ENG. C. Potter 6-Dec-77		
MATERIAL —	PROJ. ENG. R.S. 6-Dec-77		
FINISH —	PT. OD. A. Baron 7-7-78		
	NEXT HIGHER ASSY. D-UA-H777-0-0	SIZE D CODE AD NUMBER 7012910-0-0	REV. N
	SCALE 1/1		
	SHEET 1 OF 2	DIST.	

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H777-C&D P.S.

BLU
BRN
EMI FILTER
LINE BLUE
LINE BROWN
CB1
LOAD BLU
LOAD BRN
1210191-4 (6A)
1212877
AC LINE CORD
7012320-0 (115V)
7012320-1 (230V)
GRN/YEL
GND STUD #8
H777 CHASSIS

SEE NOTE 8
SEE NOTE 7
WHT/GRN
GRN/WHT
R100
F100
2A
R1
10Ω 10W
G2
G3
GREY/BLU
F1
1A SB
GREY/ORN
WHT/BLU
BLU/WHT
WHT/ORN
ORN/WHT
COM
NO
XJ 1210683

BLK #18
WHT #18
J12 PWR SUP FAN
J13 LOGIC FAN
GREY #18

TB2
(S)
(H)
1
2
3
4
5
6
7
GREY/BLU
WHT/GRN
WHT/BLU
WHT/ORN

BLK
RED
BLK/WHT
RED/WHT

BLU/BLK
BLU
BLU
J1-6 (TB1)
J1-7 (TB1)
J1-8 (TB1)
H4224-1 T1
7011805 TRANS ASSY
+5 REG (H777) 7012909
H777-C&D P.S.

12121698-01 REF
J1-5 (TB1) +5V REG (H777) 7012909
J1-4 (TB1)

FIRST USED ON OPTION/MODEL: H777-C&D	QTY.	DESCRIPTION	PART NO.
PARTS LIST			
DIMENSIONAL TOLERANCE: DIMENSIONS ARE ±.010 INCHES UNLESS OTHERWISE SPECIFIED	DRN: F. Rocha	DATE: 29 AUG 76	digital
MILLIMETERS: X.XX ±0.10, X.X ±0.5, X ±0.2	CHK: D. Healy	DATE: 2 SEP 76	
INCHES: .XXX ±.005, .XX ±.01, .X ±.1	ENG:	DATE:	
ANGLES: ±30'	PROJ. ENG: K. Savage	DATE: 17 SEP 76	
THIRD ANGLE PROJECTION	PROJ: R. Hall	DATE: 17 SEP 76	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓	NEXT HIGHER ASSY.		
MATERIAL			
FINISH	SCALE		
	SHEET 2 OF 2		

TITLE: AC INPUT ASSY (120/240V)

SIZE D | CODE AD | NUMBER 7012910-0-0 | REV. N | DIST.

REVISIONS		
CHK.	CHANGE NO.	REV.
		N

AUTOMATED BY PRTLST.3P(44) P A R T S L I S T SHEET A1 OF A2

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION 00	01	02
1	1	C-IA-7011805-0-0	7011805-00	TRANSFORMER ASSY	1	1	1
2	2		9006037-01	SCREW,MACH PAN PHIL 8-	2	2	2
3	3		9006634-00	WASHER,LOCK INTERNAL STEEL	2	2	2
4	4		9007035-00	GROMMET,CATERPILLAR NYLON	A/R	A/R	A/R
5	5		1210683-00	RLY,G.P., 12V COIL,3PDT,10A	1	1	1
6	6		9006020-01	SCREW,MACH PAN PHIL 6-	4	4	4
7	7		9006633-00	WASHER,LOCK INTERNAL STEEL	10	10	10
8	8		9006842-00	SPACER,HEX,THD'D,ALUM 6-32X 5	2	2	2
9	9		9007794-01	SCREW,MACH PAN PHIL 6-	2	2	2
10	10		9006021-01	SCREW,MACH PAN PHIL 6-	2	2	2
11	11		1212789-00	SKT,RELAY 11PIN	1	1	1
12	12		1210191-04	CKT BKR 6.0 A 250V 2P MAGNETIC	1	1	1
13	13		1300173-00	10.0 10.0 N 5.0 % WW	1	1	-
14	14		9006966-00	TERM PCB 2POS INSULATED,TURRE	2	2	2
15	15		9107430-09	WIRE,TWP 18AWG(19/30)IPVC 150V	A/R	A/R	A/R
16	16		9009771-02	CLAMP, CABLE,PVC, 3/8"ID,SELF ST	1	1	-
17	17		1212893-00	FUSE HOLDER, 20A, 300V, PNL MNT	1	1	1
18	18	D-IA-7417219-0-0	7417219-00	BRACKET COMPONENT	1	1	1
19	19		1212788-00	TERM BLOCK 7POS .375 SPACING	1	1	1
20	20	B-IA-7414743-1-0	7414743-01	SHIELD, TERM	1	1	1
21	21		9008264-00	MOUNT, CABLE TIE, ADHESIVE BACKE	1	1	1
22	22		9107410-39	WIRE, 18AWG(19/30)IPVC 150V	A/R	A/R	A/R
23	23		9107410-59	WIRE, 18AWG(19/30)IPVC 150V	A/R	A/R	A/R
24	24		9107410-93	WIRE, 18AWG(19/30)IPVC 150V	A/R	A/R	A/R
25	25		9007929-00	TERM,RING #5,6STUD CRIMP 16-2	2	2	2
26	26		9107410-95	WIRE, 18AWG(19/30)IPVC 150V	A/R	A/R	A/R
27	27		9107430-08	WIRE,TWP 18AWG(19/30)IPVC 150V	A/R	A/R	A/R
28	28		9007970-00	TERM,QUICK .300TAB CRIMP 18-2	2	2	2
29	29	BLANK			0	0	0
30	30		1210820-02	CONN TERMINAL,REELED	4	4	4

REVISION HISTORY			BASIC PART NO: 7012910										
ENG	ECO NUMBER	REV	SECTION A OF A	DRN: A. ROCHA	DATE: 19-JUL-76		D	I	G	I	T	A	L
W.B	7012910-ML007	N	SECTION. VARIATION INDEX [A] 00,01,02	CHK'D: D. HEALY	DATE: 27-JUL-76	TITLE	PARTS LIST						
			[B]	DES.ENG.: R. BARRY	DATE: 17-SEP-76	A/C INPUT ASSY (120V/230V)							
			[C]	RESP.ENG.: R. BARRY	DATE: 17-SEP-76	DOCUMENT NUMBER							
			[D]			SIZE	CODE	NUMBER		REV			
			[E]	MFG.ENG.: R.B.KING	DATE: 21-SEP-76	K	PL	7012910-0-DBP		N			
			[F]	ASSEMBLY NUMBER: D-AD-7012910-0-0	TOP DOCUMENT NUMBER: D-AD-7012910-0-0	FILE NAME: Z4684N.PLS			EDIT #: 6				

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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION 00	01	02
31	31		9107305-02	TUBING,SHRINK 3/16DIA.EXP UL	A/R	A/R	A/R
32	32		1210820-01	SOCKET HOUSING	4	4	4
33	33		9107278-02	TUBING,THIN WALL,.042ID UL	A/R	A/R	A/R
34	34		9008020-02	SCREW,MACH FLAT PHIL 6-	2	2	2
35	35	B-IA-7011797-0-0	7011797-00	JUMPER 2" BLK	1	1	1
36	36	B-IA-7011798-0-0	7011798-00	JUMPER 2" WHT	1	-	1
37	37		9007786-00	RETAINER, U-NUT, 10-32	4	4	4
38	38		9007031-00	TIE,CABLE BUNDL.DIA 0- 3/4"=101	A/R	A/R	A/R
39	39	BLANK			0	0	0
40	40		9007212-00	FUSE,SLO BLO 1 A,250V GLASS	1	1	-
41	41	BLANK			0	0	0
42	42		1212698-01	TERM STRIP 2POS .375 SPACING	1	1	1
43	43		9107430-16	WIRE,TWP 18AWG(19/30)IPVC 150V	A/R	A/R	A/R
44	44		9006656-00	WASHER,FLAT STEEL	2	2	2
45	45	C-IA-7417286-0-0	7417286-00	BRACKET, STOP	1	1	1
46	46		9107410-83	WIRE, 18AWG(19/30)IPVC 150V	A/R	A/R	A/R
47	47		9107410-86	WIRE, 18AWG(19/30)IPVC 150V	A/R	A/R	A/R
48	48		9107410-69	WIRE, 18AWG(19/30)IPVC 150V	A/R	A/R	A/R
49	49		9107410-96	WIRE, 18AWG(19/30)IPVC 150V	A/R	A/R	A/R
50	50		9007216-00	FUSE,SLO BLO 2 A,250V GLASS	-	-	1
51	51		1317198-00	7.0 10.0 % NTC THERM	-	-	2
52	52		9107255-09	TUBING,SHRINK 1/8 DIA.EXP UL	-	-	A/R

D	I	G	I	T	A	L	TITLE	SECTION	SIZE	CODE	DOCUMENT NUMBER	REV
							A/C INPUT ASSY (120V/230V)	A OF A	K	PL	7012910-0-DBP	N

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RAW DC
COMMON
+15V REG
COMMON
COM SENS.
+5V
CLK
KEY
-15V
COM SENS.
-15V REG
±15VC OFF
COM.
CLK

F1 10A
HS1
Q2 2N5Ø38
L1 5ØØµH
R8 .15Ω 3% 3W WW
R9 1ØØ
C6 .01µF 1ØØV
R13 1ØØ
D1Ø MRØ53Ø
D13 2N5Ø62
D14 17V 5% IN5247B
R15 1ØØ
C1Ø .01µF 1ØØV
R14 1ØØ
R16 1ØØ
C3Ø .22µF 5ØV
C2 18ØµF 5ØV
C3 18ØµF 5ØV
C1 18ØµF 5ØV
R2 1ØØ
Q1 2N4Ø36
R4 1K 1W
Q3 XAØ5
R6 1K
R5 27
D3 D672
D4 D672
D5 D672
D6 D672
C5 .Ø47µF 5ØV
R7 47 1W
R1Ø 2.7K
R11 1ØK
R12 59Ø
D9 D672
Q4 BØ3
Q5 XA55
C8 56ØµF 2ØV
C7 56ØµF 2ØV
C9 56ØµF 2ØV
D11 D672
D12 C32AX135
C11 .22µF 5ØV
D672 D27
Q6 XAØ5
R17 1K
C17 3.3µF 2ØV
J1
C13 .22µF 5ØV
C14 .Ø1µF 16ØV 1Ø%
R19 4.7K
D672 D28
R21 1ØK
R22 56Ø
R23 1K
C15 1µF 35V+
D15 D672
D16 1117752A
W1
R26 1K
R27 33
R28 5.42K 1%
DCQ VTH CTL
TRIG VCC
E2 DEC555
GND OUT
R2Ø 4.7K
3ØIA E1
C16 22pf 1ØØV
D17 5.1V 1%
R29 2.8ØK 1%
R18 1K
C12 1ØØpF
R24 33Ø
Q7 XAØ5
Q8 DEC5933
R25 1ØK
D25 D672
D24 NSR 4117
R3Ø 1K
C19 .68µF 35V
D18 IN759A 12V
R34 1K
R36 1ØK
R37 4.7K
D21 D672
D22 D672
R41 1 2W WW
R42 1ØØ
C24 .Ø1µF 1ØØV
Q9 2N5838
Q1Ø D45C11
R43 1Ø
L2 5ØµH
R47 1ØØ
C27 56ØµF 2ØV
C29 56ØµF 2ØV
C28 56ØµF 2ØV
D8 IN5624
R48 5GØ ½W
C18 1ØµF 2ØV
R32 1ØK
R31 5.11K
R33 4.7K
3ØIAN E4
D2Ø IN752A
C2Ø 33pf 1ØØV
D19 5.1V 1%
C21 2.2µF 25V
C22 1µF 35V
R35 33Ø
CTL VTH DCQ
VCC GND
E3 DEC 555
TRIG OUT
C23 .Ø1µF 16ØV 1Ø%
R39 6ØØ 2W
D26 D672
Q11 XAØ5
R38 4.7K
R4Ø 1K
Q12 XAØ5
R44 4.7K
R45 1K
D23 IN5248B
C25 .22µF, 5ØV
Q13 BØ5
R46 .ØΩ 5W 3% WW
C26 .Ø1µF 1ØØV

REVISIONS		
CHK	CHANGE NO.	REV.
TW	5413764-TW001	B
Q. Lavigne 22-OCT-81		
W. RAUSHA		

DRN		3/27/79
CHK'D		9 June 79
ENG.	N. Mowry	1 May 80
PROJ. ENG.		1 May 80
PROD.		1 May 80
NEXT HIGHER ASSY.	B-DD-5413764-Ø	
SCALE	1/1	
SHEET	1 OF 1	

FIRST USED ON H777-UA, UB

digital

TITLE ±15V REGULATOR

SIZE	CODE	NUMBER	REV.
D	CS	5413764-Ø-1	B

DIST.

AUTOMATED BY PRTLST.3K(27)

P A R T S L I S T

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR	
1	1	D-UA-5413764-0-0		UNIT ASSY	REF		
2	2	D-CS-5413764-0-1		CKT SCHEMATIC	REF		
3	3		5013763-00	DRILL & ETCH BRD	1		
4	4		1000009-00	33.0 MMF 100V 5%200PPM MICA	1	C20	
5	5		1000016-00	100.0 MMF 100V 5%200PPM MICA	1	C12	
6	7		1001610-01	.01 MFD50/100V +80-20% DISC	4	C6,C10,C24,C26	
7	8		1001776-00	1 MFD 35V 10% S.TANT	2	C15,C22	
8	9		1002627-00	2.2MFD 20V 10% S.TANT	1	C21	
9	6		1004813-00	10 MFD 20V 10% S.TANT	1	C18	
10	10		1005334-00	3.3MFD 20V 10% S.TANT	1	C17	
11	11		1005784-00	.01 MFD 100V 200V 10% MYL	2	C14,C23	
12	12		1008320-00	22.0 MMF 100V 5%200PPM MICA	1	C16	
13	13		1009964-00	.68 MFD 35V 10% S.TANT	1	C19	
14	14		1010274-01	.22 MFD 50V +80-20% Z5U CER	4	C25,C30,C11,C13	
15	15		1010978-32	.047 MFD 50V 10% CER	1	C5	
16	16		1012607-00	560 MFD 20V+100-10% AL EL	5	C7-C9,C27-C29	
17	17		1012607-02	180 MFD 50V+100-10% AL EL	3	C1-C3	
18	18		1102808-00	1N 752A VZ= 5.6 5% .40W	2	D16,D20	
19	19		1103341-00	MR1033B PIV=300 I= 3A Z44 SM	1	D10	
20	20		1105275-00	D 672 TR= 15NS PIV= 60V SI	13	D3-D6,D9,D11,D15,D21,D22,D25,	
					CONT	D26,D27,D28	
21	22		1105871-00	1/4M5.1AZ1 = 5.1 1% .25W N	2	D17,D19	
22	26		1110420-00	1N 5624 PIV=200 I= 5A	1	D8	
23	21		1110766-00	1N 5248B VZ= 18.0 5% .50W	1	D23	F1
29	29		1213071-02	INSULATOR,RUBBER SILICONE SM	2		

REVISION HISTORY		
ENG	ECO NUMBER	REV
---	INITIAL	A
WB	5413764-TW001	B

BASIC PART NO: 5413764

SECTION A OF A

SECTION.VARIATION INDEX
[A] 00
[B]
[C]
[D]
[E]
[F]
[H]
[J]
[K]
[L]
[M]
[N]

DRN: PAUL NORMAN — DATE: 07-JAN-80

CHK'D: P.BOSSMAN — DATE: 08-JAN-80

DES.ENG: W.BAUSHA — DATE: 08-JAN-80

RESP.ENG.: W.BAUSHA — DATE: 18-MAR-80

MFG.ENG.: JOSE OLIVENCIA — DATE: 18-MAR-80

ASSEMBLY NUMBER: D-UA-5413764-0-0

TOP DOCUMENT NUMBER: B-DD-5413764-0-0

DIGITAL

TITLE PARTS LIST

PLUS/MINUS 15V REGULATOR

DOCUMENT NUMBER

SIZE	CODE	NUMBER	REV
K	PL	5413764-0-DBP	B

FILE NAME: Z0234B.PLS

EDIT # 35

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AUTOMATED BY PRTLST.3K(27)

PARTS LIST

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
30	30		1213071-05	INSULATOR,RUBBER THERMAL	2	
31	45		1300197-00	33.0 .25 W 5.0 % CC	1	R27
32	32		1300229-00	100.0 .25 W 5.0 % CC	9	R2,R9,R13-R16,R42,R47
33	31		1300250-00	*** THIS ITEM IS NOT USED ***	-	
34	34		1300295-00	330.0 .25 W 5.0 % CC	2	R35,R24
35	35		1300309-00	390.0 .25 W 5.0 % CC	1	R12
36	36		1300338-00	560.0 .50 W 5.0 % CC	1	R48
37	37		1300348-00	680.0 2.0 W 5.0 % CC	1	R39
38	38		1300365-00	1.0 K .25 W 5.0 % CC	9	R6,R17,R18,R23,R26,R30,R34,R40,
					CONT	R45
39	39		1300368-00	1.0 K 1.0 W 5.0 % CC	1	R4
40	40		1300426-00	2.70 K .25 W 5.0 % CC	1	R10
41	41		1300447-00	4.70 K .25 W 5.0 % CC	6	R19,R33,R37,R38,R44,R20
42	42		1300479-00	10.0 K .25 W 5.0 % CC	3	R21,R25,R36
43	43		1301317-00	10.0 .25 W 5.0 % CC	2	R3,R43
44	44		1301522-00	27.0 .25 W 5.0 % CC	1	R5
45	81		1301890-00	560.0 .25 W 5.0 % CC	1	R22
46	33		1302199-00	47.0 1.0 W 5.0 % CC	1	R7
47	46		1302465-00	18.0 K .25 W 5.0 % CC	1	R11
48	47		1305128-00	5.62 K .25 W 1.0 % RN55D-F10	1	R28
49	48		1305145-00	2.80 K .25 W 1.0 % RN55D-F10	1	R29
50	49		1305428-00	1.0 2.0 W 5.0 % WW	1	R41
51	50		1311603-00	.08 5.0 W 3.0 % WW	1	R46
52	51		1304854-00	5.11 K .25 W 1.0 % RN55D-F10	1	R31
53	52		1316597-00	.15 3.0 W 3.0 % WW	1	R8
54	53		1509700-00	2N 4036 PNP 7WC SI 80100 M	1	Q1
55	54		1510705-00	XA 05 NPN 500MW SI 60 50 P	5	Q3,Q6,Q7,Q11,Q12
56	55		1510705-01	B 05 NPN 500MW SI 60 50	2	Q4,Q13
57	56		1510706-00	XA 55 PNP 500MW SI 60 50 P	1	Q5
58	57		1510928-00	C32AX135 SCR@100V I=25A	1	D12
59	58		1510969-00	2N 5038 NPN 140WC SI 90 50 Y	2	Q2,Q9
60	59		1511686-00	DEC5433 FET N 350MW 10 25 1A	1	Q8
61	60		1514431-00	D 45C11 PNP 30W SI 80 40	1	Q10
62	61		1612593-00	500 UH 6A	2	L1,L2
63	62		1910282-00	301AN OP AMP	2	E1,E4
64	63		1911944-00	555CN TIMER,FUNCT.BLOCK	2	E2,E3
65	80	D-MD-5013763-0-0		DRILL & ETCH BRD	REF	
66	64		7011414-0E	3M CABLE H777 CORE	1	J1
67	65	C-IA-7012546-0-0	7012546-00	TWO (2) WIRE CABLE	1	
68	66	C-IA-7012547-0-0	7012547-00	THREE (3) WIRE CABLE	1	
69	67	C-IA-7422935-0-0	7422935-00	HEAT SINK	1	HS1
70	68		9006013-01	SCREW,PAN,PHIL 4-40K 1/2 SS	4	
71	69		9006557-00	NUT,KEP 4-40X 1/4 AF	4	
72	72	(FOR Q1)	9007201-00	TRANSIPADS #10253	1	
73	73		9007815-00	TERM,LUG 1/4STUD LOCKING	1	
74	71		9007906-00	WASHER,LOCK,SPLIT .3340D X .200I	2	
75	74		9008172-00	WASHER, FLAT,SS .250 OD X .125 I	4	
76	76		9008440-00	BUSHING,INSUL,NYLON .2480D .125	2	

DIGITAL	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
	PLUS/MINUS 15V REGULATOR		K	PL	5413764-0-DBP	B

PARTS LIST

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
77	70		9009005-00	NUT,HEX , 10-32 X1/4 AF X 3	2	
78	77		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	1	W1
79	78	(USED UNDER D12)	9009222-00	CLIP, SCR, ADAPTOR	1	
80	82		9107360-22	WIRE,STRND,18AWG,IPVC UL1429	A/R	
81	79		9107430-02	WIRE,STRND,18AWG,IPVC (UL1429)	A/R	
82	83		1303312-00	10.0 K .25 W 1.0 % RN55D-F10	1	R32
83	84		9008880-00	TAPE, FIBER GLASS 1/2" X 66 FT.	A/R	
84	85		9105740-55	WIRE(WRAP)30AWG UL1423	A/R	
85	86		9006731-00	EYELET, (BRASS NICKEL PLATED) .0	1	

DIGITAL	TITLE	SECTION	SIZE	CODE	DOCUMENT NUMBER	REV
	PLUS/MINUS 15V REGULATOR	A OF A	K	PL	5413764-0-DBP	B

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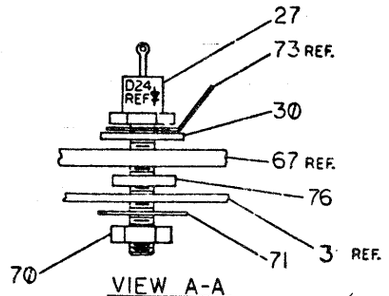
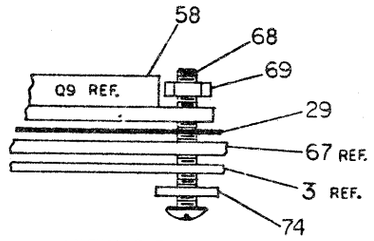
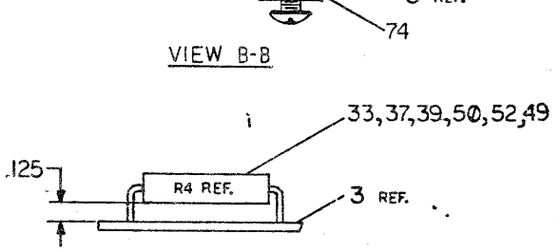
COMPONENT SIDE VIEW



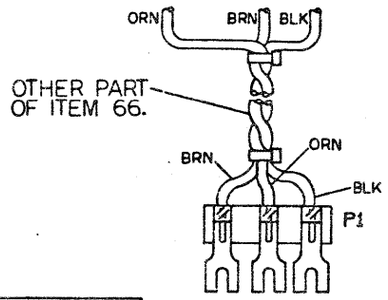
VIEW A-A
SEE NOTE 1.

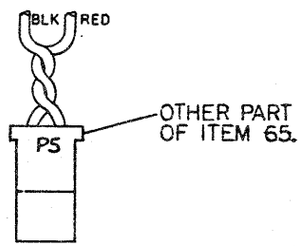


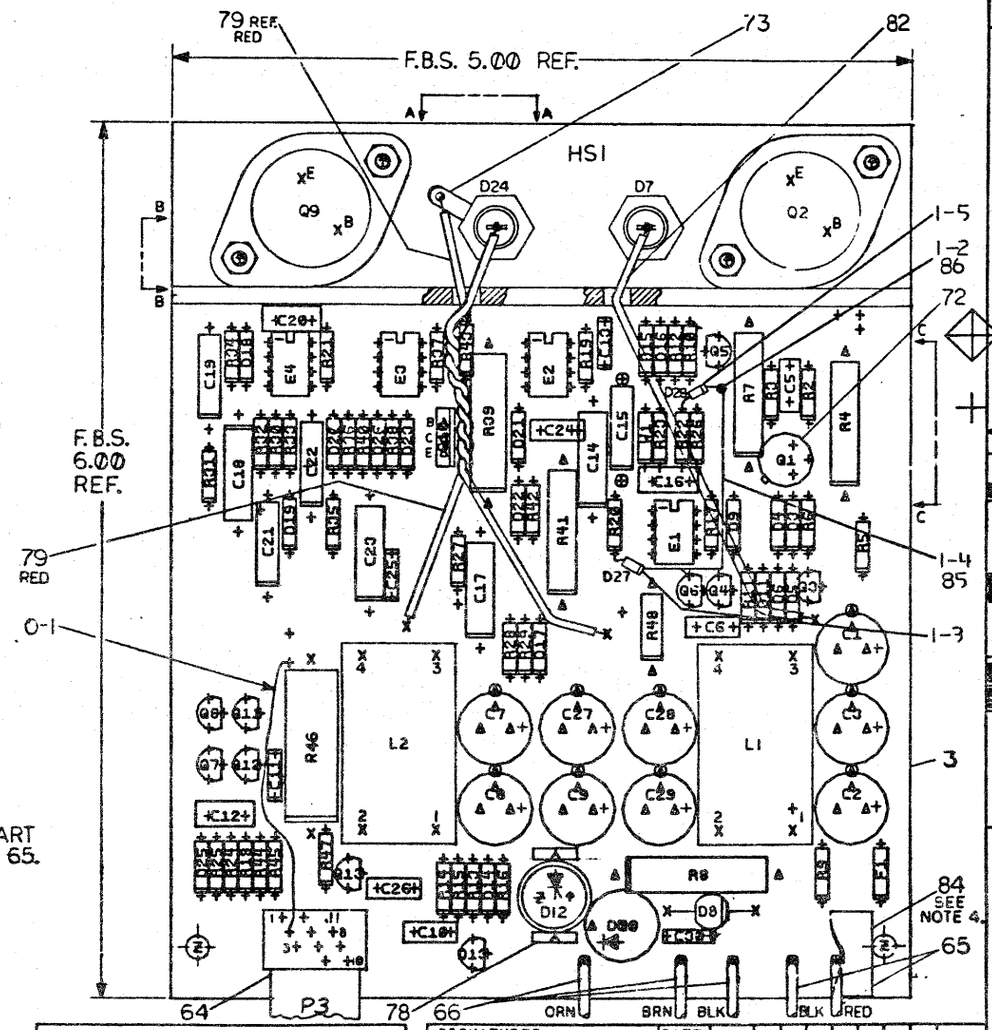
VIEW B-B



VIEW C-C







NOTES: 1. USE IDENTICAL HARDWARE FOR D7, LESS ITEM 73.
2. TORQUE RANGE FOR ITEMS 68 AND 69 IS 5 TO 6 INCH/POUNDS.
3. TORQUE RANGE FOR ITEMS 27 AND 70 IS 14 TO 16 INCH/POUNDS.
4. WIRE INSULATION MUST BE FLUSH WITH THE BD.

STEP & REPEAT	↑ Y AXIS ___ STEP ___ TIMES
	→ X AXIS ___ STEP ___ TIMES

CHK	CHANGE NO	REV
T. FISHER-TW1		B
D. Kingsley 23-OCT-80		
W. BAUSHA		

ETCH REV. B

SIGNATURES	DATE
DRN.	11/MAR/80
CHK'D.	5 Mar 80
MECH.ENG.	5/1/80
PROJ.ENG.	5/1/80
PROD.	5/1/80

digital

TITLE
±15V REGULATOR

SCALE	SIZE	CODE	NUMBER	REV
2/1	D	UA	5413764-0-0	B
SHT. 1 OF 3				

NEXT HIGHER ASSY. 8-DD-5413764-0-0

TW 1 MS# 1804948

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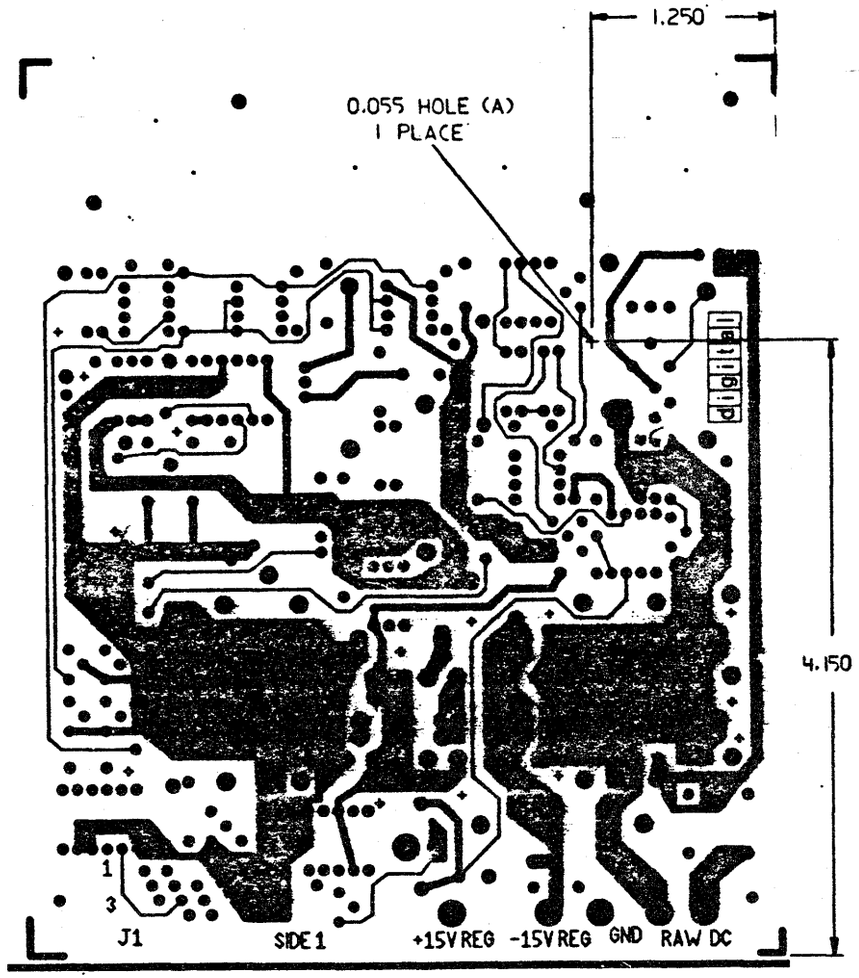

REVISION HISTORY

DATE	ECO NUMBER	REV

TITLE: ±15V REGULATOR

DOCUMENT NUMBER: SIZE D | CODE UA | NUMBER 5413764-0-0 | REV B

SCALE 2/1 | SHEET 2 OF 3

DUA5413764-0-0 B

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REWORK INSTRUCTIONS

WIRE ADDS

0-1 ADD A WIRE AT J1 PIN 2 TO FEED THRU LEFT OF R46.

ECO #1

1-2 INSTALL AN EYELET (ITEM 86) BY DRILLING A .055" HOLE. POSITION OF HOLE PER SHEET 2 OF UA DRAWING.

1-3 ADD A DIODE (D27) FROM R20 PTH TO THE PTH OF Q6'S COLLECTOR. ANODE TO R20.

1-4 ADD AN ECO WIRE (ITEM 85) FROM PTH OF Q6'S COLLECTOR TO THE EYELET (ITEM 86).

1-5 ADD A DIODE D28 FROM R22'S PTH TO EYELET (ITEM 86). ANODE OF D28 TO D22.

REVISION HISTORY

DATE	ECO NUMBER	REV.

TITLE: ±15V REGULATOR

SIZE	CODE	DOCUMENT NUMBER	REV.
D	UA	5413764-0-0	B

SCALE NONE | SHEET 3 OF 3

DRD 137A

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LEGEND	
NUMBER	VARIATION
BA11-KE	220 / 50/60 HZ
BA11-KF	240V 50/60 HZ
BA11-KH *	120V 50/60 HZ
BA11-KJ *	240V 50/60 HZ
BA11-KK *	120V 50/60 HZ
BA11-KL *	240 / 50/60 HZ
BA11-KA *	NO POWER SUPPLY
BA11-KS *	220VAC 50/60 HZ
BA11-KT *	240VAC 50/60 HZ
BA11-KW	120 50/60
BA11-KX	240 50/60
BA11-KU	120 50/60
BA11-KV	240 50/60

NOTES:
1. CAUTION: OPP SHEEET PARTS LISTS EXISTS SEE A-PL-BA11-K-0
2. ~~CHASSIS TO CABINET RAIL~~
3. ~~ASSEMBLE 5 PLACES MOUNTING SCREWS TO 5 IN-LBS WITH A TORQUE SCREWDRIVER~~
4. ATTACH SHIPPING BRACKETS TO POWER SUPPLY AND BOLT THROUGH HOLE IN CABINET RAILS.
5. INSTALL CARD GUIDES, ITEM NOS. 5 & 36 USING TOOL NO. 9412610-2.
6. ~~ASSEMBLE ITEM NO. 37 USING EXISTING HARDWARE~~
7. REMOVE FOAM STRIPS FROM ITEM# 1 AND POSITION ITEM# 39 ONTO ITEM# 1 PER VIEW E-E.
8. SYMMETRICALLY LOCATE ITEM# 40 ONTO ITEM# 1.
9. ITEM 43 NOT SHOWN. USE ONLY FOR SHIPPING TO HOLD POWER CORD IN PLACE.
10. ITEM 38 INSTALLED AT FA+T
11. GND THE GRN W/YELLOW TRACE CHASSIS GND TERMINAL WITH TWO WIRE ON THE STANDOFF. GND THE OTHER TERMINAL TO THE STUD ON THE AC INPUT ASSY. GND THE AC INPUT ASSY. TO THE STUD ON THE H765 PS.
12. INSTALLED AT FA+T. EXCEPT LOOSE PIECE FOR DOCK MERGE.
13. FOR INSTALLATION OF ITEM 52 SEE DWG E-AD-7012399-0-0.
14. ATTACH PER NOTE 11 USING ITEM NO. 14.
15. 3617880-09 FCC QUALIFIED SUB-ASSY LABEL

.25 x .25 ORIENTATION HOLE REF

35 (1 REQ'D FOR ALL VARIATIONS) LOCATE AS SHOWN USING ¼" HOLE AS A STARTING PLACE. DECAL MAY BE PLACED CLOSER TO CARD GUIDES FOR EASE OF APPLICATION, 2 PLACES.

36 (QTY 24) NOTE 5 LOCATE MAGENTA CARD GUIDES IN EVEN NUMBERED SLOTS, BOTH SIDES.

5 (QTY 24) LOCATE WHITE CARD GUIDES IN ODD NUMBERED SLOTS, BOTH SIDES.

1 REF

NO CARD GUIDES IN FIRST AND LAST HOLES

VIEW A-A
SCALE: NONE

36 REF
5 REF
36 REF
5 REF
35 (REQ'D FOR KE & KF VARIATIONS ONLY)

VIEW E-E
SCALE: NONE

DETAIL A
SEE SHEET 3

DETAIL B
SEE SHEET 3

E
SEE SHEET 2

38
42
41 (SEE NOTE 11)
B
REF
(H754)
(H785)
(H744)
DANGER HIGH VOLTAGE
A
E
35 REF
E
5 REF
18
A
46
14
SEE NOTE 14
REF
10 QTY 4 OR 59
31
38
32
25.00 REF.
E

TOP VIEW
(CHASSIS COVER REMOVED)

38 REF.
37
54
4
AC POWER CORD
SEE NOTE 15
64
38 REF.

VIEW B-B

62 (230V)
61 (115V)
34 (230V)
33 (115V)
17 (230V)
9 (115V)
59 OR 10 (QTY 4)
1
2
49 QTY 8
C
C
28
13 (QTY 6)
D
46
14 REF
NOTE 12
32 REF
REF
15
21 QTY 4
8 OR 52
SEE NOTE 13
14 REF
6
12
2
38 REF
10 (REF) OR 59
51 (QTY 6)
7 (QTY 4)
3 REF
D
26.53 REF.

RIGHT SIDE VIEW

14 (SEE NOTE 14)
19.00 REF.
10.44 REF.
SEE NOTE 11
CONNECT LUG TO G1 (REF)
P13
P14
P15
P16
J12
J11
J10
J9
J8
J7
J6
J5
J4
J3
J2
J1
2 REF
G1 (REF)
3 REF

VIEW D-D
REAR VIEW
(POWER SUPPLY AND CHASSIS SLIDES REMOVED)

VIEW C-C
SCALE: NONE
ONLY TOP COVER ITEM# 2 SHOWN

FIRST USED IN OPTION/MODEL: BA11-K
DIMENSIONAL TOLERANCES
UNLESS OTHERWISE SPECIFIED

QTY.	DESCRIPTION	PART NO.	ITEM NO.
	PARTS LIST		

digital

TITLE: UNIT ASS'Y BA11-K

B-DD-BA11-K

SIZE E | CODE UA | BA11-K-0 | REV 4.7

BA11-K-0

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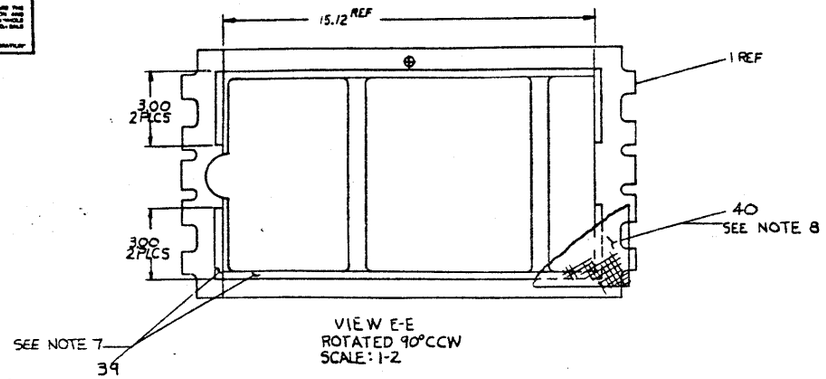
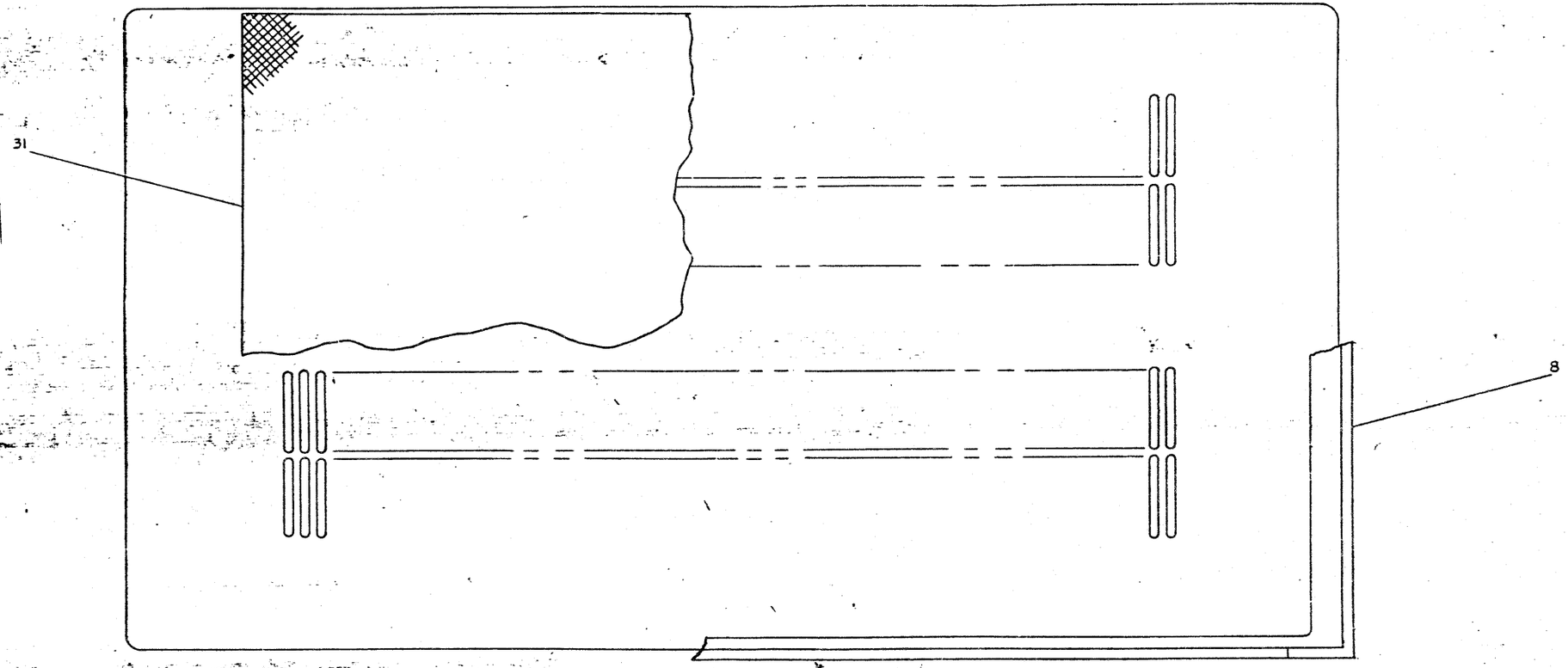


VIEW E-E
ROTATED 90°CCW
SCALE: 1-2



REAR VIEW

REVISION HISTORY		
DATE	ECO NUMBER	REV

TITLE: UNIT ASSY BAII-K

DOCUMENT NUMBER: E UA BAII-K-0 REV A

SCALE — SHEET 2 OF 3

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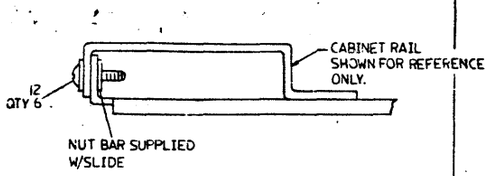
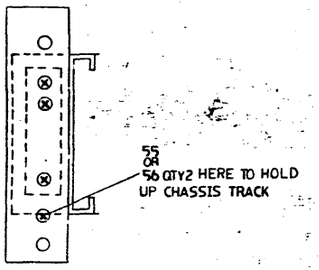
DETAIL A
SCALE: NONE

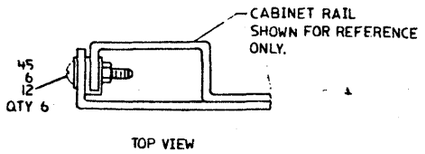
CHASSIS TRACK SLIDE





FRONT VIEW

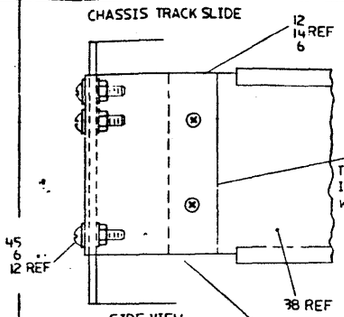
ACCURIDE SLIDE



TOP VIEW

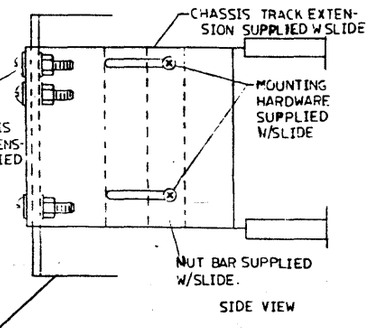
DETAIL B
SCALE: NONE

CHASSIS TRACK SLIDE

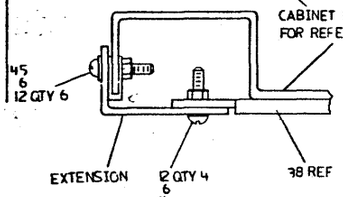


SIDE VIEW

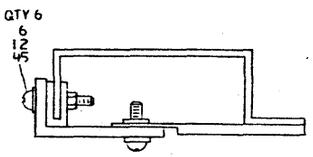
ACCURIDE SLIDE



SIDE VIEW



TOP VIEW



NOTES:

REVISION HISTORY		
DATE	ECO NUMBER	REV

TITLE	UNIT ASS'Y BAII-K	
CUST CODE	DOCUMENT NUMBER	
E	BAII-K-0	Z
SCALE	NONE	SHEET 1 OF 1

AUTOMATED BY PRTLST.3P(44)

P A R T S L I S T

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION KE	KF	KH	KJ	KK	KL	KA	KS	KT	KW	KX	KU
1	1	E-IA-7009769-0-0	7009769-00	CHASSIS 10.5	1	1	1	1	1	1	1	1	1	1	1	1
2	2	D-IA-7009768-0-0	7009768-00	COVER CHASSIS (BA11-K)	2	2	0	0	0	0	0	2	2	2	2	2
3	3	D-CS-5410864-0-1	5410864-00	POWER DIST BRD (BA11K)	REF	REF	REF	REF	REF	REF	0	REF	REF	REF	REF	REF
4	4		9006660-00	WASHER,FLAT SST	1	1	1	1	1	1	-	1	1	1	1	-
5	5	D-PS-1212405-0-0	1212405-00	GUIDE,CARD ,NYLON ,NATURAL	24	24	24	24	24	24	24	24	24	24	24	24
6	6	SEE NOTE 2	9006071-03	SCREW,MACH TRUSS PHIL 10-	16	16	0	0	0	0	0	16	16	10	10	16
7	7		9006020-02	SCREW,MACH FLAT PHIL 6-	4	4	4	4	4	4	0	4	4	4	4	4
8	8	D-IA-7411013-0-0	7411013-00	PANEL LOUVERED ASSY-RS03	1	1	0	0	0	0	0	0	0	0	0	1
9	9	B-DD-H765-A-0	0H765-A	POW SUPPLY BA11-K 115V	1	0	1	0	0	0	0	1	0	1	0	0
10	10		9006020-03	SCREW,MACH TRUSS PHIL 6-	4	4	8	8	8	8	4	4	4	9	0	4
11	11	B-IA-7007006-0-0	7007006-03	JUMPER H724	1	1	1	1	1	1	-	1	1	1	1	-
12	12	SEE NOTE 2	9007651-00	WASHER,LOCK EXTERNAL STEEL	12	12	0	0	0	0	0	12	12	12	12	12
13	13		9009599-00	SCREW, FLAT PHIL 10-	6	6	6	6	6	6	0	6	6	6	6	6
14	14		9006565-00	NUT,HEX EXT TOOTH LCKWSHR 10-32	7	7	0	0	0	0	0	7	7	7	7	7
15	15	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
16	16	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
17	17	B-DD-H765-B-0	0H765-B	POW SUPPLY BA11-K 230V	0	1	0	1	0	0	0	0	1	0	1	0
18	18	D-MD-7412184-0-0	7412184-00	CHASSIS CABLE TROUGH (BA11-K)	0	0	1	1	1	1	0	0	0	0	0	0
19	19	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
20	20	SEE NOTE 1	BC11A-10	CABLE ASSY PDP-11 M919 M929	1	1	0	0	0	0	0	1	1	1	1	0
21	21		1209224-00	LATCH,PLASTIC	4	4	0	0	0	0	0	0	0	0	0	4
22	22	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
23	23	A-SP-3700167-0-0	3700167-00	INSTR PKG COMPUTER INPLANT BA11K	0	0	0	REF	REF	REF	REF	REF	REF	REF	REF	0
24	24	A-SP-3700165-0-0	3700165-00	INSTR PKG-COMPUTER CONSOLIDATED	0	0	REF	REF	REF	REF	REF	REF	REF	REF	REF	0
25	25	A-SP-3700169-0-0	3700169-00	INSTR PKG COMPUTER CUSHIONED 11/	0	0	REF	REF	REF	REF	REF	REF	REF	REF	REF	0
26	26	A-SP-BA11-K-6		BA11-K BASIC CHECKOUT AND ACCEPT	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	0
27	27	A-SP-BA11-K-7		BA11-K BASIC ASSEMBLY PROCEDURE	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF
28	28	A-DC-5309414-0-0	5309414-00	DECAL UL INSIGNIA (VT14)	1	1	0	0	0	0	0	1	1	1	1	1
29	29	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
30	30	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-

REVISION HISTORY		
ENG	ECO NUMBER	REV
	INITIAL	V
BC	BA11-K-ML024	W
RN	BA11K-ML025	Y
DE	BA11-K-ML027	Z

BASIC PART NO: OBA11

SECTION A OF B

SECTION. VARIATION INDEX
[A] KE,KF,KH,KJ,KK,KL, KA,KS,KT,KW,KX,KU
[B] KV
[C]
[D]
[E]
[F]

DRN: B. BLODGET	DATE: 26-JUN-74	
CHK'D: D. HEALY	DATE: 27-JUN-74	
DES.ENG.: P. E. JANSON	DATE: 23-AUG-74	
RESP.ENG.: W. LUCAS	DATE: 23-AUG-74	
MFG.ENG.: W. LUCAS	DATE: 23-AUG-74	
ASSEMBLY NUMBER: E-UA-BA11-K-0	TOP DOCUMENT NUMBER: B-TC-BA11-K-3	FILE NAME: Z3017Z.PLS

DIGITAL

TITLE: PARTS LIST

UNIT ASSY BA11-K

DOCUMENT NUMBER

SIZE	CODE	NUMBER	REV
K	PL	BA11-K-DBP	Z

EDIT # 6

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P A R T S L I S T

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION KE	KF	KH	KJ	KK	KL	KA	KS	KT	KW	KX	KU
31	31		1211255-00	FILTER,AIR FOAM 030PPI 1	1	1	0	0	0	0	0	0	0	1	1	1
32	32	C-MD-7413659-0-0	7413659-00	BRACKET SHIPPING	1	1	0	0	0	0	0	1	1	1	1	1
33	33	B-DD-H765-C-0	0H765-C	POWER SUPPLY BA11-K MOS 115V	0	0	0	0	1	0	0	0	0	0	0	0
34	34	B-DD-H765-D-0	0H765-D	POWER SUPPLY BA11-K MOS 230V	0	0	0	0	0	1	0	0	0	0	0	0
35	35	A-PS-3613281-0-0	3613281-00	DECAL FOR BA11K MOD. SLOT	2	2	1	1	1	1	1	2	2	2	2	2
36	36	D-PS-1212405-1-0	1212405-01	GUIDE,CARD ,NYLON ,MAGNETA	24	24	24	24	24	24	24	24	24	24	24	24
37	37		9007086-00	CLAMP,CABLE,SCREW MTD. 9/16"	1	1	1	1	1	1	0	1	1	1	1	1
38	38	SEE NOTE 3, 6	1211825-01	SLIDE,CHASSIS TITLT 3POSITION	1	1	0	0	0	0	0	1	1	1	1	1
39	39	A-PS-1212431-0-0	1212431-00	TAPE,FOAM ADH .33 WDX	0	0	0	0	0	0	0	A/R	A/R	0	0	0
40	40	A-PS-1212392-0-1	1212392-01	FILTER,AIR FOAM 030PPI	0	0	0	0	0	0	0	1	1	0	0	0
41	41		9006635-00	WASHER,LOCK INTERNAL STEEL	1	1	1	1	1	1	1	1	1	1	1	1
42	42		9006231-09	SCREW,MACH HEX PLN 10-	1	1	1	1	1	1	1	1	1	1	1	1
43	43		9007032-00	TIE,CABLE BUNDL.DIA 0-1-3/4"=101	2	2	2	2	2	2	2	2	2	2	2	2
44	44	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
45	45		9007786-00	RETAINER,U-NUT 10-32X	12	12	0	0	0	0	0	12	12	12	12	12
46	46		9006664-00	WASHER,FLAT SST	1	1	0	0	0	0	0	1	1	1	1	1
47	47		9006073-03	SCREW,MACH TRUSS PHIL 10-	8	8	0	0	0	0	0	8	8	8	8	8
48	48	A-SP-3700421-0-0	3700421-00	INSTR PKG COMPUTER BA11-KE	REF	REF	0	0	0	0	0	0	0	0	0	REF
49	49		9006070-02	SCREW,MACH FLAT PHIL 10-	8	8	0	0	0	0	0	0	0	0	0	8
50	50	A-PS-3613209-0-0	3613209-00	LABEL,ADH BACK,ELC.DATA	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF
51	51		9009700-00	SCREW,SEMS TRUSS PHIL 10-	18	18	0	0	0	0	0	18	18	18	18	18
52	52	E-AD-7012399-0-0	7012399-00	AIR INTAKE BEZEL ASSY (10-24) SC	0	0	0	0	0	0	0	0	0	1	1	0
53	53	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
54	54		9000049-11	SCREW,SEMS TRUSS PHIL 6-	1	1	1	1	1	1	1	1	1	1	1	-
55	55	SEE NOTE 4	9000049-12	SCREW,SEMS TRUSS PHIL 8-	2	2	0	0	0	0	0	2	2	2	2	2
56	56		9000049-13	SCREW,SEMS TRUSS PHIL 6-	2	2	0	0	0	0	0	2	2	2	2	2
57	57	A-PS-3618500-0-1	3618500-01	LABEL,BOX EXPAND OPT/MODULE PLAC	1	1	0	0	0	0	0	1	1	1	1	1
58	58	SEE NOTE 5	3617880-01	LABEL,FCC,NON-COMLIANT	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	0
59	59		9000049-30	SCREW,SEMS TRUSS PHIL 6-	4	4	8	8	8	8	4	4	4	9	0	4
60	60		3617674-01	LABEL,SERIAL/POWER W UL & CSA	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
61	61	E-UA-7013323-0-0	7013323-00	MOSS POWER SUPPLY 115V W/O BATTE	0	0	0	0	0	0	0	0	0	0	0	1
62	62	E-UA-7013323-0-0	7013323-03	MOSS POWER SUPPLY 230V W/O BATTE	0	0	0	0	0	0	0	0	0	0	0	0
63	63	D-UA-BC11A-0-0	BC11A-15	CABLE ASSY PDP-11 M919 M929	0	0	0	0	0	0	0	0	0	0	0	1
64	64		3617880-09	LABEL,FCC,NON-COMPLIANT	0	0	0	0	0	0	0	0	0	0	0	1

65 NOTE: 1. FINAL CABLE LENGTH WILL BE DETERMINED BY THE SYSTEM.
66 NOTE: 2. ITEM 51 IS AN ALLOWABLE SUBSTITUTE FOR THE COMBINATION OF THESE PARTS WHEN USED ON ITEM 38.
67 NOTE: 3. 1211825-02 IS AN ALLOWABLE SUBSTITUTE.
68 NOTE: 4. REQUIRED ONLY IF 1211825-02 IS USED.
69 NOTE: 5. FCC LABLE WILL NOT BE PUT ON ANY 50 HERTZ MACHINES.
70 NOTE: 6. ITEM 38, KE,KF.KS,KT,KW AND KX ARE IN PRS.

D I G I T A L	TITLE	SIZE	CODE	DOCUMENT NUMBER	REV
	UNIT ASSY BA11-K SECTION A OF B	K	PL	BA11-K-DBP	Z

AUTOMATED BY PRTLST.3P(44)

P A R T S L I S T

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION KV
1	1	E-IA-7009769-0-0	7009769-00	CHASSIS 10.5	1
2	2	D-IA-7009768-0-0	7009768-00	COVER CHASSIS (BA11-K)	2
3	3	D-CS-5410864-0-1	5410864-00	POWER DIST BRD (BA11K)	REF
4	4		9006660-00	*** THIS ITEM IS NOT USED ***	-
5	5	D-PS-1212405-0-0	1212405-00	GUIDE,CARD ,NYLON ,NATURAL	24
6	6	SEE NOTE 2	9006071-03	SCREW,MACH TRUSS PHIL 10-	16
7	7		9006020-02	SCREW,MACH FLAT PHIL 6-	4
8	8	D-IA-7411013-0-0	7411013-00	PANEL LOUVERED ASSY-RS03	1
9	9	B-DD-H765-A-0	0H765-A	POW SUPPLY BA11-K 115V	0
10	10		9006020-03	SCREW,MACH TRUSS PHIL 6-	4
11	11	B-IA-7007006-0-0	7007006-03	*** THIS ITEM IS NOT USED ***	-
12	12	SEE NOTE 2	9007651-00	WASHER,LOCK EXTERNAL STEEL	12
13	13		9009599-00	SCREW, FLAT PHIL 10-	6
14	14		9006565-00	NUT,HEX EXT TOOTH LCKWSHR 10-32	7
15	15	BLANK		*** THIS ITEM IS NOT USED ***	-
16	16	BLANK		*** THIS ITEM IS NOT USED ***	-
17	17	B-DD-H765-B-0	0H765-B	POW SUPPLY BA11-K 230V	0
18	18	D-MD-7412184-0-0	7412184-00	CHASSIS CABLE TROUGH (BA11-K)	0
19	19	BLANK		*** THIS ITEM IS NOT USED ***	-
20	20	SEE NOTE 1	BC11A-10	CABLE ASSY PDP-11 M919 M929	0
21	21		1209224-00	LATCH,PLASTIC	4
22	22	BLANK		*** THIS ITEM IS NOT USED ***	-
23	23	A-SP-3700167-0-0	3700167-00	INSTR PKG COMPUTER INPLANT BA11K	0
24	24	A-SP-3700165-0-0	3700165-00	INSTR PKG-COMPUTER CONSOLIDATED	0
25	25	A-SP-3700169-0-0	3700169-00	INSTR PKG COMPUTER CUSHIONED 11/	0
26	26	A-SP-BA11-K-6		BA11-K BASIC CHECKOUT AND ACCEPT	0
27	27	A-SP-BA11-K-7		BA11-K BASIC ASSEMBLY PROCEDURE	REF
28	28	A-DC-5309414-0-0	5309414-00	DECAL UL INSIGNIA (VT14)	1
29	29	BLANK		*** THIS ITEM IS NOT USED ***	-
30	30	BLANK		*** THIS ITEM IS NOT USED ***	-

REVISION HISTORY

ENG	ECO NUMBER	REV
	INITIAL	V
BC	BA11-K-ML024	W
RN	BA11K-ML025	Y
DE	BA11-K-ML027	Z

BASIC PART NO: 0BA11

SECTION B OF B

SECTION. VARIATION INDEX

[A] KE,KF,KH,KJ,KK,KL, KA,KS,KT,KW,KX,KU

[B] KV

[C]

[D]

[E]

[F]

DRN: B. BLODGET DATE: 26-JUN-74

CHK'D: D. HEALY DATE: 27-JUN-74

DES.ENG.: P. E. JANSON DATE: 23-AUG-74

RESP.ENG.: W. LUCAS DATE: 23-AUG-74

MFG.ENG.: W. LUCAS DATE: 23-AUG-74

ASSEMBLY NUMBER: E-UA-BA11-K-0

TOP DOCUMENT NUMBER: B-TC-BA11-K-3

D I G I T A L

TITLE PARTS LIST

UNIT ASSY BA11-K

DOCUMENT NUMBER

SIZE	CODE	NUMBER	REV
K	PL	BA11-K-DBP	Z

FILE NAME: Z3017Z.PLS

EDIT # 6

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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION KV
31	31		1211255-00	FILTER,AIR FOAM 030PPI 1	1
32	32	C-MD-7413659-0-0	7413659-00	BRACKET SHIPPING	1
33	33	B-DD-H765-C-0	0H765-C	POWER SUPPLY BA11-K MOS 115V	0
34	34	B-DD-H765-D-0	0H765-D	POWER SUPPLY BA11-K MOS 230V	0
35	35	A-PS-3613281-0-0	3613281-00	DECAL FOR BA11K MOD. SLOT	2
36	36	D-PS-1212405-1-0	1212405-01	GUIDE,CARD ,NYLON ,MAGNETA	24
37	37		9007086-00	CLAMP,CABLE,SCREW MTD. 9/16"	1
38	38	SEE NOTE 3, 6	1211825-01	SLIDE,CHASSIS TITLT 3POSITION	1
39	39	A-PS-1212431-0-0	1212431-00	TAPE,FOAM ADH .33 WDX	0
40	40	A-PS-1212392-0-1	1212392-01	FILTER,AIR FOAM 030PPI	0
41	41		9006635-00	WASHER,LOCK INTERNAL STEEL	1
42	42		9006231-09	SCREW,MACH HEX PLN 10-	1
43	43		9007032-00	TIE,CABLE BUNDL.DIA 0-1-3/4"=101	2
44	44	BLANK		*** THIS ITEM IS NOT USED ***	-
45	45		9007786-00	RETAINER,U-NUT 10-32X	12
46	46		9006664-00	WASHER,FLAT SST	1
47	47		9006073-03	SCREW,MACH TRUSS PHIL 10-	8
48	48	A-SP-3700421-0-0	3700421-00	INSTR PKG COMPUTER BA11-KE	REF
49	49		9006070-02	SCREW,MACH FLAT PHIL 10-	8
50	50	A-PS-3613209-0-0	3613209-00	LABEL,ADH BACK,ELC.DATA	REF
51	51		9009700-00	SCREW,SEMS TRUSS PHIL 10-	18
52	52	E-AD-7012399-0-0	7012399-00	AIR INTAKE BEZEL ASSY (10-24) SC	0
53	53	BLANK		*** THIS ITEM IS NOT USED ***	-
54	54		9000049-11	*** THIS ITEM IS NOT USED ***	-
55	55	SEE NOTE 4	9000049-12	SCREW,SEMS TRUSS PHIL 8-	2
56	56		9000049-13	SCREW,SEMS TRUSS PHIL 6-	2
57	57	A-PS-3618500-0-1	3618500-01	LABEL,BOX EXPAND OPT/MODULE PLAC	1
58	58	SEE NOTE 5	3617880-01	LABEL,FCC,NON-COMLIANT	0
59	59		9000049-30	SCREW,SEMS TRUSS PHIL 6-	4
60	60		3617674-01	LABEL,SERIAL/POWER W UL & CSA	A/R
61	61	E-UA-7013323-0-0	7013323-00	MOSS POWER SUPPLY 115V W/O BATTE	0
62	62	E-UA-7013323-0-0	7013323-03	MOSS POWER SUPPLY 230V W/O BATTE	1
63	63	D-UA-BC11A-0-0	BC11A-15	CABLE ASSY PDP-11 M919 M929	1
64	64		3617880-09	LABEL,FCC,NON-COMPLIANT	1

65 NOTE: 1. FINAL CABLE LENGTH WILL BE DETERMINED BY THE SYSTEM.
66 NOTE: 2. ITEM 51 IS AN ALLOWABLE SUBSTITUTE FOR THE COMBINATION OF THESE PARTS WHEN USED ON ITEM 38.
67 NOTE: 3. 1211825-02 IS AN ALLOWABLE SUBSTITUTE.
68 NOTE: 4. REQUIRED ONLY IF 1211825-02 IS USED.
69 NOTE: 5. FCC LABLE WILL NOT BE PUT ON ANY 50 HERTZ MACHINES.
70 NOTE: 6. ITEM 38, KE,KF.KS,KT,KW AND KX ARE IN PRS.

D	I	G	I	T	A	L	TITLE	SECTION	SIZE	CODE	DOCUMENT NUMBER	REV
							UNIT ASSY BA11-K	B OF B	K	PL	BA11-K-DBP	Z

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DRAWING DIRECTORY

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DRAWING DIRECTORY BA11-K	B-DD-BA11-K
UNIT ASS'Y BA11-K	E-UA-BA11-K-0
DRAWING DIRECTORY H765	B-DD-H765-0
UNIT ASS'Y BC11A	D-UA-BC11A-0-0
BC11A UNIBUS CABLE, M919	B-CS-M919-0-1
BC11A UNIBUS CABLE, M929	B-CS-M929-0-1
UNIT ASS'Y BA11-K-PL	K-PL-BA11-K-DBP
UNIT ASS'Y POWER SUPPLY	E-UA-7013323-0-0
PART LIST POWER SUPPLY	A-UA-7013323-0-0

MFG. PRINT SET	
IN PLANT PACK. INST.	A-SP-3700167-0-0
SKID LOAD PACK. INST.	A-SP-3700165-0-0
CUST. CUSHIONED PACK.	A-SP-3700169-0-0

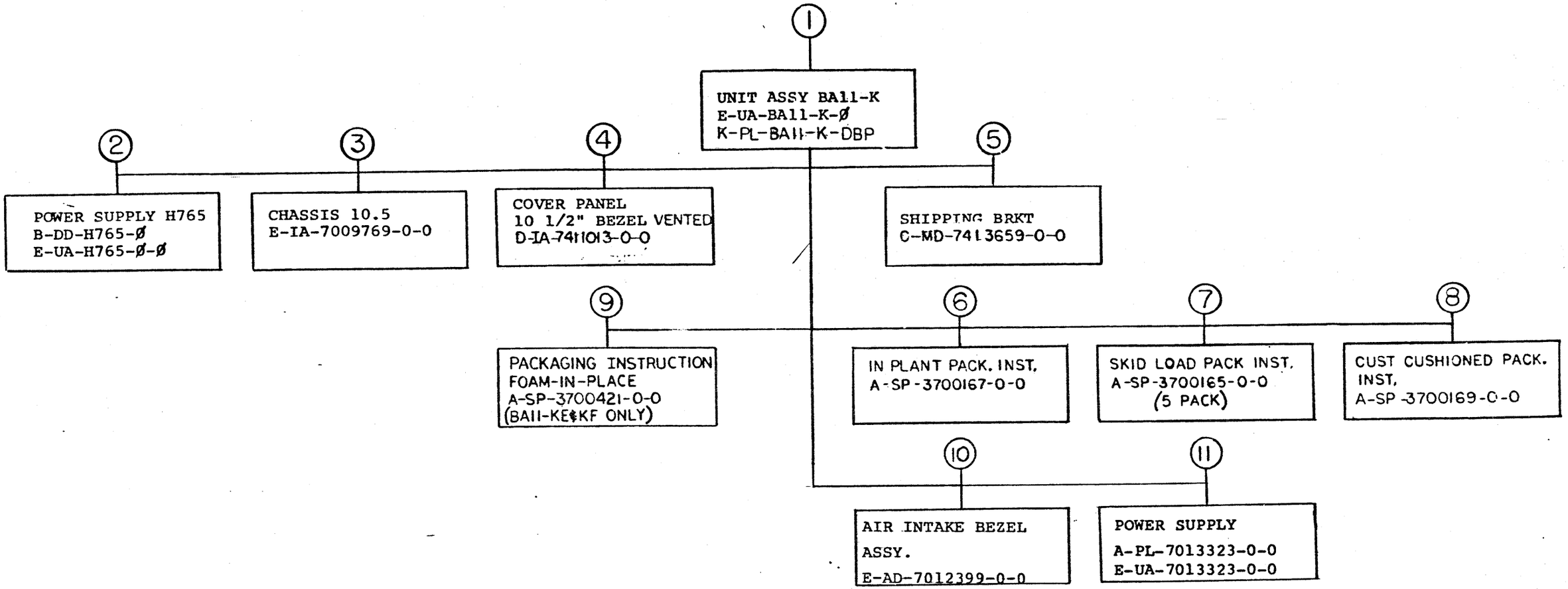
UNIT VARIATIONS

VAR	TITLE
BA11-KE	120 VAC 50/60 HZ
BA11-KF	240 VAC 50/60 HZ
BA11-KH	120 VAC 50/60 HZ (MANUF. ONLY)
BA11-KJ	240 VAC 50/60 HZ (MANUF. ONLY)
BA11-KK	120 VAC 50/60 HZ(NO H754)(MANUF. ONLY)
BA11-KL	240 VAC 50/60 HZ(NO H754)(MANUF. ONLY)
BA11-KA	NO POWER SUPPLY (MANYF. ONLY)
BA11-KS	120 VAC 50/60 HZ
BA11-KT	240 VAC 50/60 HZ
BA11-KW	120 VAC 50/60 HZ
BA11-KX	240 VAC 50/60 HZ
BA11-KU	120 VAC 50/60HZ (2-H7441, 1-H745)
BA11-KV	240 VAC 50/60HZ (2-H7441, 1-H745)

REVISIONS		
REV.	CHANGE NO.	CHK
T	BA11K-ML025	
	REVISED AND REDRAWN 16 APRIL-82	

USED ON OPTION/MODEL	DRN.	DATE	TITLE
11/05-S	J. FERGUSEN	6/22/74	DRAWING DIRECTORY BA11-K
11/35-S	CHK'D. D. HEALY	DATE 7/22/74	
	PROJ. ENG. E. ANTON	DATE 9/4/74	SIZE B / CODE DD / NUMBER BA11-K / REV T
	PROD. R. PATERSON	DATE 10/1/74	DIST.
SHEET 1 OF 4			

DRB 106A



TITLE		SIZE	CODE	NUMBER	REV.
DRAWING DIRECTORY BA11-K	SHEET 2 OF 4	B	DD	BA11-K	T

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
1	E-UA-BA11-K-0	UNIT ASS'Y BA11-K	
	A-SP-BA11-K-6	BA11-K BASIC CHECKOUT AND ACCEPTANCE PROCEDURE	
	A-SP-BA11-K-7	BA11-K BASIC ASSEMBLY PROCEDURE	
	K-PL-BA11-K-DBP	UNIT ASSEMBLY BA11-K-PL	
	B-PL-BA11-K-1	SHIPPING LIST BA11-K	
	B-PL-BA11-K-2	INSTALLATION KIT BA11-K	
2	B-DD-H765-0	POWER SUPPLY H765	

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE

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

digital

TITLE DRAWING DIRECTORY BA11-K

SHEET 3 OF 4 | SIZE B | CODE DD | NUMBER BA11-K | REV T

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
1	E-UA-BA11-K-Ø	UNIT ASSY BA11-K	E/M
	K-PL-BA11-K-DBP	UNIT ASSY BA11-K PL	E/M
	D-IA-7009768-0-0	COVER, CHASSIS	M
	D-PS-1211825-0-0	SLIDE, 3 POS TILT	M
	D-MD-7412184	CABLE, TROUGH CHASSIS	E/M
	D-UA-BC11A-10-Ø	UNIBUS, CABLE, 10 FT	E/M
	B-CS-M919-Ø-1	BUS CONNECTOR M919	E
	B-CS-M929-Ø-1	BUS CONNECTOR M929	E
	D-PS-1212405-ØØ	CARD GUIDE	M
	A-DC-5302414-Ø	DECAL UL	M
	A-PS-3613281-Ø-C	DECAL	M
	B-PL-BA11-K-1	SHIPPING LIST BA11-K	E/M
	B-PL-BA11-K-2	INSTALLATION KIT BA11-K	E/M
	A-PS-3617880-01	DECAL FCC NON-COMPLIANCE	E/M
2	B-DD-H765-Ø	DWG DIRECTORY H765	E/M
	E-UA-H765-Ø-Ø	POWER SUPPLY H765	M
3	E-IA-7009769-Ø-Ø	CHASSIS, 10.5	M
	E-IA-7411703-Ø-Ø	CHASSIS, FRONT	M
	E-IA-7411707-Ø-Ø	CHASSIS, SIDE	M
	D-MD-7411706-Ø-Ø	BRACKET, HAT	M
	D-MD-7411705-Ø-Ø	BRACKET, CARD GUIDE	M
	C-MD-7412185-Ø-Ø	PLATE CABLE	M
4	D-IA-7411013-Ø-Ø	COVER PANEL 10 1/2 BEZEL	M
5	C-MD-7413659-Ø-Ø	SHIPPING BRKT	M

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
6	A-SP-3700167-0-0	IN PLANT PACK. INST.	M
7	A-SP-3700165-0-0	SKID LOAD PACK. INST. (5 PACK)	M
8	A-SP-3700169-0-0	CUST. CUSHIONED PACK. INST.	M
9	A-SP-3700421-0-0	PACKAGING INSTRUCIONS (FOAM-IN-PLACE)	M
		(BA11-KE & KF VARIATIONS ONLY)	
10	E-AD-7012399-0-0	AIR INTAKE BEZEL ASSY	
	E-MD-7414506-0-0	BEZEL, RX01 (ONE CAST)	
	D-MD-7415744-0-0	BRKT, BEZEL MTG	
	D-IA-7415743-0-0	PANEL, AIR INTAKE	
11	E-UA-7013323-0-0	POWER SUPPLY ASSY	E/M
	A-FL-7013323-0-0	POWER SUPPLY ASSY	E/M

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

digital

TITLE	SHEET	SIZE	CODE	NUMBER	REV
DRAWING DIRECTORY BA11-K	SHEET 4 OF 4	B	DD	BA11-K	T

DRB 108A

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FIELD MAINTENANCE PRINT SET

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TABLE OF CONTENTS

B-TC-7013323-C-1	POWER SUPPLY ASSY (TC)
E-UA-7013323-0-0	POWER SUPPLY ASSY
A-PL-7013323-0-0	POWER SUPPLY ASSY (PL)
B-DD-H765-Ø	H765 DRAWING DIRECTORY (COMPLETE SET)
D-CS-5410864-0-1	POWER DISTRIBUITON BOARD
D-CS-5411086-0-1	POWER LINE MONITOR +15V REGULATOR
MPØØ271	H7441 PRINT SET (COMPLETE SET)
B-DD-H745-Ø	H745 DRAWING DIRECTORY (COMPLETE SET)
B-DD-H754-Ø	H754 DRAWING DIRECTORY (COMPLETE SET)
MPØØ272	H785 PRINT SET (COMPLETE SET)

UNIT VARIATIONS COVERED BY THIS PRINT SET
7013323-0
7013323-1
7013323-2
7013323-3
7013323-4
7013323-5

7013323

Field Maintenance Print Set

Digital Equipment Corporation

PRINT SET ORDER NO.
MPØØ27Ø

REVISIONS	REV.	CHG. NO.	DATE
	—		

USED ON OPTION/MODEL	
1134A	

SHEET I OF 1

DRN. D. HEALY	DATE DEC 76	
CHK'D D. HEALY	DATE DEC 76	
PROJ. ENG.	DATE 13 JAN 77	
FIELD SERV.	DATE 13-JAN-77	

digital

TITLE: POWER SUPPLY ASSY

SIZE	CODE	NUMBER	REV.
B	TC	7013323-0-1	

DIST.

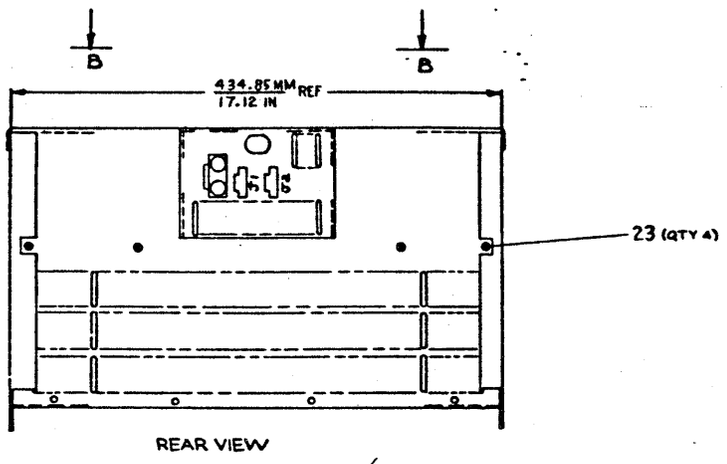
EN-01124-16-N675-1327)

DRB 124

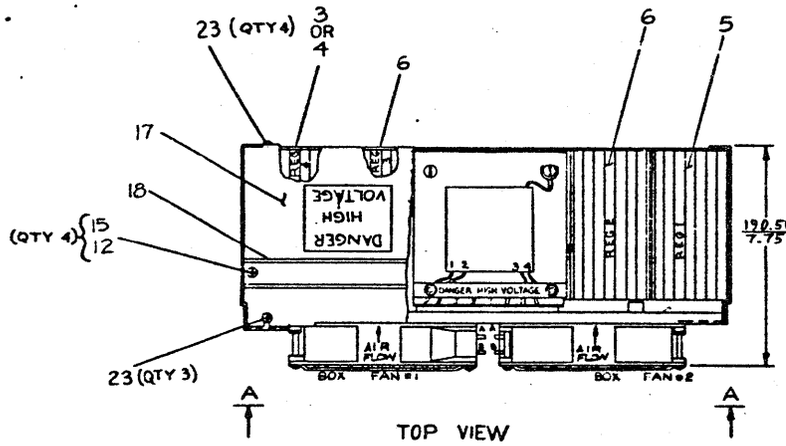
LEGEND	
NUMBER	VARIATION
7013323-0	120V H765-P, 5411086, 5410864-YA, TWO H7441, H745
7013323-1	120V H765-P, 5411086, 5410864-YA, TWO H7441, H745, H785
7013323-2	120 V H765-P, 5411006, 5410864-YA TWO H7441, H745, H754
7013323-3	240 V H765-R, 5411086, 5410864-YA TWO H7441, H745
7013323-4	240V H765-R, 5411086, 5410864-YA, TWO H7441, H745, H785
7013323-5	240V H765-R, 5411086, 5410864-YA, TWO H7441, H745, H754

NOTES

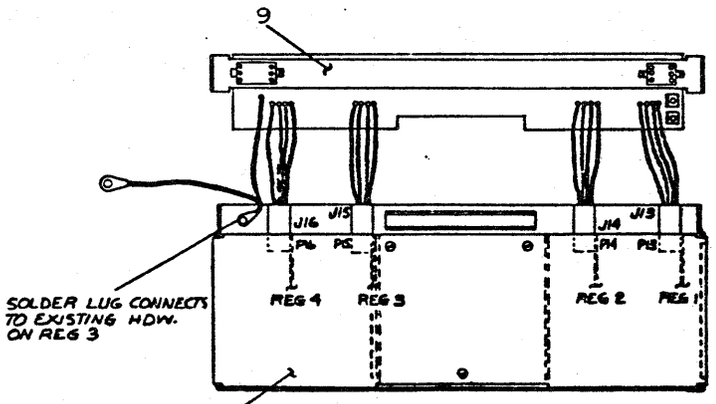
1. REGULATOR #4 IS DETERMINED BY THE VARIATION REQUIRED - SEE LEGEND AND PARTS LIST.
2. GREEN/YELLOW GROUND WIRE FROM TRANSFORMERS TO BE FASTENED UNDER REGULATOR #2 MOUNTING SCREW.
3. CONSOLE CABLE 70114II-2J FROM KYII-LR. THIS CABLE IS USED ONLY TO CONNECT THE H785/H785Ø BATTERY BACK-UP REGULATOR IN REGULATOR SLOT #4.



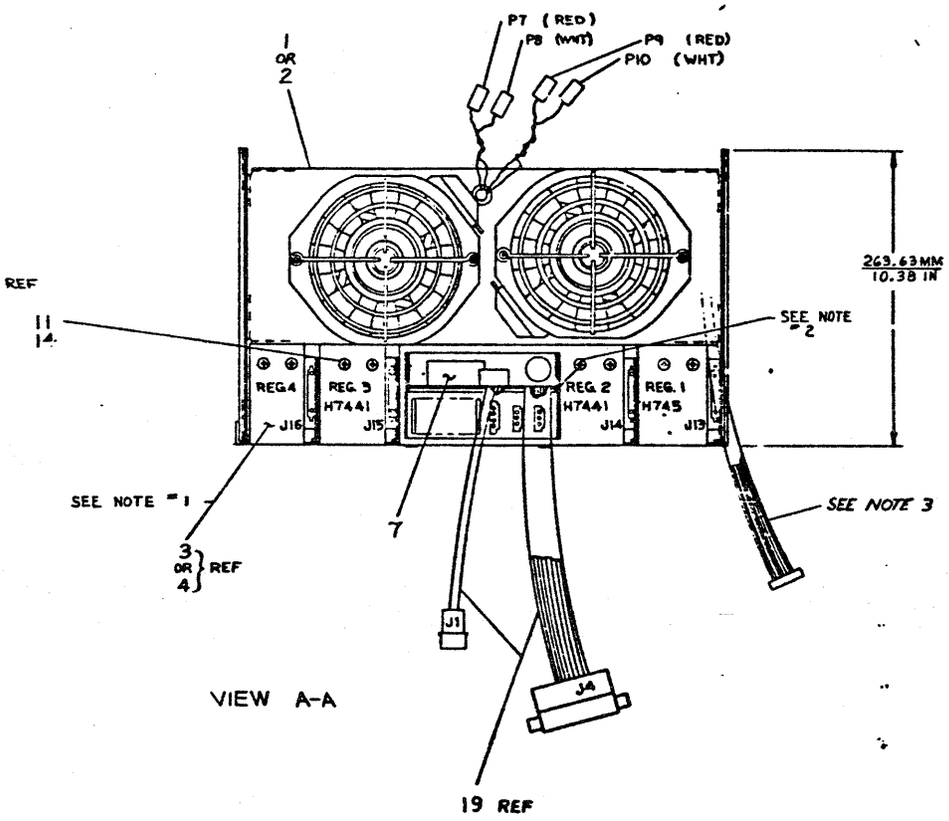
REAR VIEW



TOP VIEW



VIEW B-B
BOTTOM VIEW
FANS REMOVED FOR CLARITY



VIEW A-A

CAUTION: OFF SHEET PARTS LIST EXISTS
SEE K-PL-7013323-0-DBP

FIRST USED ON (PT. NUMBER)	QTY.	DESCRIPTION	PART NO.
1134A		PARTS LIST	
DIMENSIONAL TOLERANCE			
SEE PARTS LIST	B-DD-7013323-0	TITLE 1134A POWER SUPPLY ASSY	
	SCALE	E UA 7013323-0-0	B

7013323-0-0 B

CONNECTION TABLE		
FROM CONNECTION	TO CONNECTION	SIGNALS
P2 FROM TRANS. ASSY	J2 FROM +15V REG.	28 VAC
J16 FROM PWR. DIST. BD.	P16 LOCATED ON REG. #4 (H754) OR (H785)	GND, -5V, +20V 28 VAC*5V,-15V,+5V
J15 FROM PWR. DIST. BD	P15 LOCATED ON REG. #3 (H7481)	GND, +5V, 28VAC
J14 FROM PWR DIST. BD	P14 LOCATED ON REG. #2 (H7441)	GND, +5V, 28VAC
J13 FROM PWR DIST. BD	P13 LOCATED ON REG. #1 (H745)	GND, +15V, -15V - 28 VAC
GND LUG LOCATED ON PWR. DIST. BD.	REG. #4 MOUNTING SCREW	GROUND CHASSIS
P1 FROM TRANS ASSY	J1 LOCATED ON PWR DIST. BD	28 VAC

CONNECTION TABLE		
FROM CONNECTION	TO CONNECTION	SIGNALS
P4 FROM +15V REG.	J2 LOCATED ON PWR DIST BD	-15V, LTC L, AC LO L, DC LO L, GND
P5 FROM TRANS. ASSY	J5 LOCATED ON AC INPUT BOX	120/240 VAC
P7 (RED)	FAN #1-A	120 VAC - HOT
P8 (WHT)	FAN #1-A	120 VAC - NEUTRAL
P9 (RED)	FAN #2-A	120 VAC - HOT
P10 (WHT)	FAN #2-B	120 VAC - NEUTRAL
#18/14 GRN/YEL WIRE	SEE NOTE 5	CHASSIS GROUND

240V
7009811-2
AC INPUT BOX

FASTON TABS LOCATED ON 5410993

120 V
7009811-1
AC INPUT BOX

7011751
CAP MOV BOARD ASSY

TRANS ASSY
7011486

5411689
CAP MOV ASSEMBLY

AC POWER CONTROL
5410993

REMOTE POWER CONTROL
1-3 : ON
2-3 : OFF

CPU CONSOLE POWER SWITCH
1-3 : ON

SEE NOTE 3

POWER DISTRIBUTION BOARD
5410834-YA

REG #4 H754 OR H785

REG #3 H7481

REG #2 H7441

REG #1 H745

+15V DC REGULATOR
5411086

7010138 HARNESS

PWR FOR CONSOLE

COMMON SIGNAL NAMES FOR 6 PIN AND 15-PIN MATE-N-LOKS ON POWER DISTRIBUTION BOARD

6-PIN	15 PIN
1 - GND	1 - +5V
2 - LTC L	2 - +15V
3 - DC LO L	3 - +20V
4 - AC LO L	4 - +5V
5 - SPARE 4	5 - GND
6 - SPARE 5	6 - SPARE 1
	7 - GND
	8 - GND
	9 - GND
	10 - SPARE 2
	11 - GND
	12 - SPARE 3
	13 - -15V
	14 - -5V
	15 - SPARE 3

REVISIONS		
ZONE	CHANGE NO	REV

TITLE 1134
POWER SUPPLY ASSY
SIZE E | CAGE CODE UA | DRAWING NO. 7013323-0-0 | REV. B
SCALE | SHEET 2 OF 3 | DIST

AUTOMATED BY PRTLST.5R(55)

P A R T S L I S T

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION 00	01	02	03	04	05
					VARIATION REVISION LEVEL:	A1	A1	A1	A1	A1	A1
1	1	E-UA-H765-P-0	H765 -P		PS CHASSIS 1134A 4 30VAC 12A EA	1	1	1	-	-	-
2	2	E-UA-H765-R-0	H765 -R		PS CHASSIS 1134A 4 30VC 12A EA 2	-	-	-	1	1	1
3	3	D-UA-H785-0-0	H7850-00		BATTERY BACK-UP REG	-	1	-	-	1	-
4	4	D-UA-H754-0-0	H754 -00		+ 20 VOLT REGULATOR	-	-	1	-	-	1
5	5	D-UA-H745-0-0	H745 -00		POWER REGULATOR	1	1	1	1	1	1
6	6	D-UA-H7441-0-0	H7441-00		+5V 32A REGULATOR FOR H7420,H765	2	2	2	2	2	2
7	7	E-IA-5411086-0-0	5411086-00		+15V REGULATOR (BA11-K)	1	1	1	1	1	1
8	8	BLANK				0	0	0	0	0	0
9	9	D-CS-5410864-YA-1	5410864-YA		POWER DISTRIBUTE BRD	1	1	1	1	1	1
10	10	BLANK				0	0	0	0	0	0
11	11		9008007-03		SCREW,MACH TRUSS PHIL 10-	6	8	8	6	8	8
12	12		9006040-03		SCREW,MACH TRUSS PHIL 8-	6	6	6	6	6	6
13	13		9006020-03		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
14	14		9006635-00		WASHER,LOCK INTERNAL STEEL	6	8	8	6	8	8
15	15		9006634-00		WASHER,LOCK INTERNAL STEEL	4	4	4	4	4	4
16	16		9006633-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
17	17	D-IA-7009949-0-0	7009949-00		COVER P.S. (11/05-S)	1	1	1	1	1	1
18	18	D-IA-7009950-0-0	7009950-00		TROUGH WIRE (11/05-S)	1	1	1	1	1	1
19	19	D-IA-7010138-0-0	7010138-00		HARNESS INTERCONN (H765)	1	1	1	1	1	1
20	20		9007880-00		TIE,CABLE BUNDL DIA 0-1.14"=101	4	4	4	4	4	4
21	21	A-CS-H765-TA-1			TESTER CIRCUIT SCHEMATIC	REF	REF	REF	REF	REF	REF
22	22	A-SP-H765-0-1	H765 -00		POWER SUPPLY	REF	REF	REF	REF	REF	REF
23	23		9009984-00		SCREW,SEMS PAN PHIL 6-	10	11	11	10	11	11

REVISION HISTORY			BASIC PART NO: 7013323				
ENG	ECO NUMBER	REV	SECTION A OF A	DRN: R. PELLERIN	DATE: 23-NOV-76	DIGITAL	
HC	7013323-ML001	B	SECTION.VARIATION INDEX [A]00,01,02,03,04,05	CHK'D: D. HEALY	DATE: 15-DEC-76	TITLE PARTS LIST POWER SUPPLY ASSY	
			[B]	DES.ENG: D. KING	DATE: 16-FEB-77	DOCUMENT NUMBER SIZE: K	CODE: PL
			[C]			NUMBER: 7013323-0-DBP	REV: B
			[D]	RESP.ENG.: R. KING	DATE: 16-FEB-77		
			[E]	MFG.ENG.: R. KING	DATE: 16-FEB-77	RELEASE DATE: 26-JAN-84	
			[F]	ASSEMBLY NUMBER: E-UA-7013323-0-0	TOP DOCUMENT NUMBER:	FILE NAME: Z8667B.PLS	EDIT #: 5

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digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

DRAWING DIRECTORY

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CUSTOMER PRINT SET INDEX

THIS IS PRINT SET ____

SEQUENCE	
DRAWING DIRECTORY H765	B-DD-H765-Ø
UNIT ASSY H765	E-UA-H765-Ø-Ø
AC INPUT BOX ASSY	D-AD-7014420-Ø-Ø
AC PWR CONTROL BOARD	D-UA-5413089-Ø-1
UNIT ASSY H765 PARTS LIST	K-PL-H765-0-DBP (P.L.)
DRAWING DIRECTORY H744	B-DD-H744-Ø
DRAWING DIRECTORY H745	B-DD-H745-Ø
DRAWING DIRECTORY H754	E-DD-H754-Ø
PWR DISTRIBUTION BOARD	D-CS-5410864-0-1
AC POWER CORD	D-AD-7012500-0-0
PWR LINE MONITOR/15V REG	D-CS-5411086-0-1
TRANSFORMER ASSEMBLY	E-AD-7011486-0-0

SEQUENCE	
MFG. PRINT SET	
PACKAGING INSTRUCTIONS	A-SP-3700174-0-0

UNIT VARIATIONS

VAR	TITLE	PRINT SET 1
H765-A	120V 50/60 HZ	X
H765-B	240V 50/60 HZ	X
H765-C	120V 50/60 HZ NO H754 NO B.B.	X
H765-D	240V 50/60 HZ NO H754 NO B.B.	X
H765-P	120V 50/60 HZ NO REG	X
H765-R	240V 50/60 HZ NO REG.	X

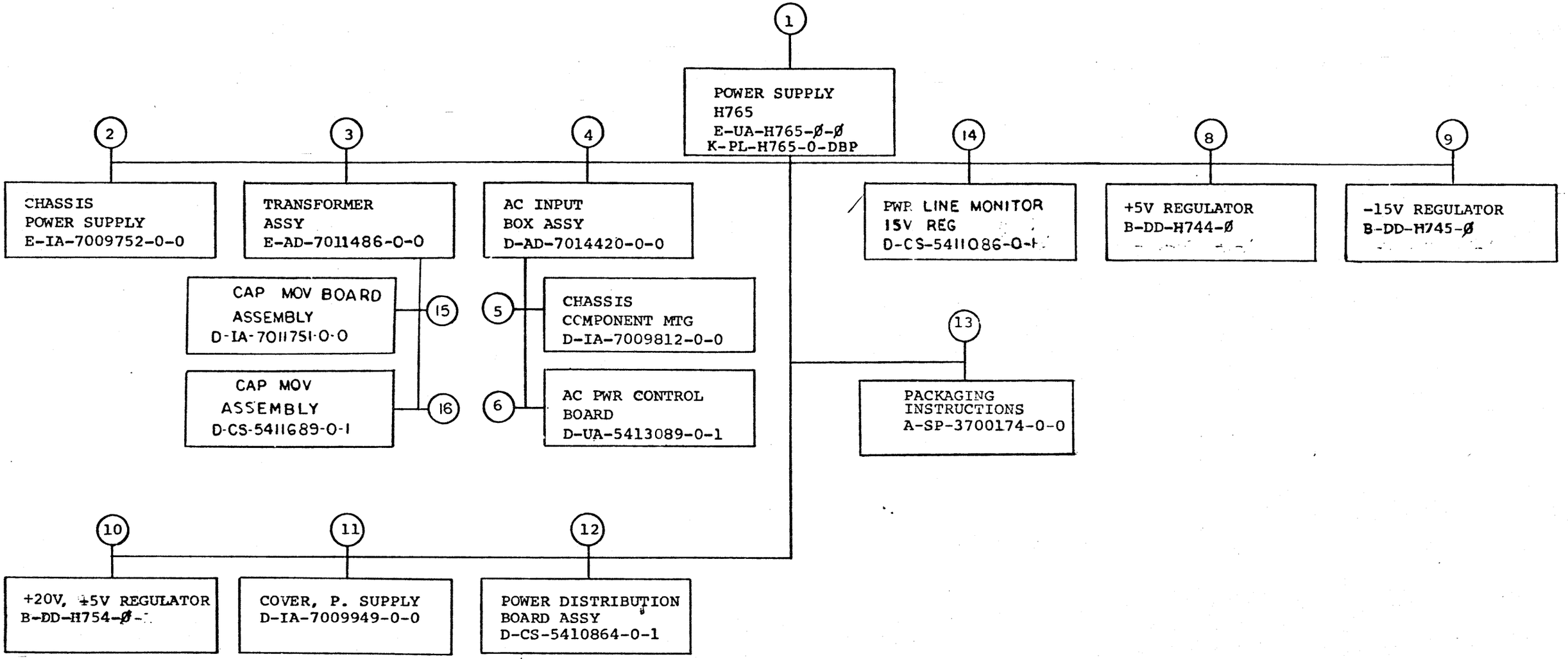
REVISIONS			
DATE	CHG. NO.	REV	
CN	H765-3	A	
CN	H765 4	B	
SL	H765-6	C	
SL	H765-7	D	
RK	H765-8	E	
RTB	H765-9	F	
R.P.	H765-10	H	
R.P.	H765-11	J	
km	H765-12	K	
km	H765-13	L	
G.P.	H765-14	M	
K.T.	H765-15	N	
8-77	H765-16	P	
9-77	H765-17	R	
1083	H765-19	S	

USED ON OPTION/MODEL	
BA11-K	
11/35-S	

SHEET 1 OF 5

DRN. J. FERGUSON	DATE 6/25/74	TITLE: DRAWING DIRECTORY POWER SUPPLY H765
CHK'D. D. HEALY	DATE 7/3/74	
PROJ ENG. E. Patton	DATE 9/4/74	
PROD. R.K. Peterson	DATE 10/1/74	SIZE B / CODE DD / NUMBER H765-Ø / REV. S
FIELD SERV R. L. Gates	DATE 9/13/74	DIST

DRB 106



TITLE			SIZE	CODE	NUMBER	REV
DRAWING DIRECTORY POWER SUPPLY H765	SHEET 2 OF 5		B	DD	H765-Ø	S

CUSTOMER PRINT SET 1	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
			ELECTRICAL				
X		1	E-UA-H765-Ø-Ø	#	2	POWER SUPPLY H765	
			A-SP-H765-0-9	C		H765 POWER SUPPLY ASSEMBLY PROCEDURE	
			K-PL-H765-0-DBP	V		PARTS LIST (Release at Rev. V)	
X		3	E-AD-7011486-0-0	#		TRANSFORMER ASSY	
			A-SP-7010014-0-8	A		TEST PROCEDURE	
			A-CS-7010014-TA-1	A		TESTER C.S.	
			A-UA-7010014-TA-0			TESTER U.A.	
			A-PL-7010014-TA-0	A		TESTER P.L.	
			A-SP-7011486-0-9			TRANSFORMER ASSY PROCEDURE	
X		4	D-AD-7014420-0-0	#	2	AC INPUT BOX ASSY	
			A-SP-7009811-0-8			TEST PROCEDURE	
			A-CS-7009811-TA-1			TESTER C.S.	
			A-UA-7009811-TA-0			TESTER U. A.	
			A-PL-7009811-TA-0			TESTER P.L.	
			A-SP-7009811-0-9			AC INPUT BOX ASSY PROCEDURE	
X		6	D-UA-5413089-0-0	#		PILOT CONTROL BOARD	
C		8	B-DD-H744-0	#	2	DRAWING DIRECTORY H744	
C		9	B-DD-H745-0	#	2	DRAWING DIRECTORY H745	
C		10	B-DD-H754-0	#	3	DRAWING DIRECTORY H754	

CUSTOMER PRINT SET 1	MFG SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
			ELECTRICAL				
X		12	D-CS-5410864-0-1	#	3	POWER DIST. BD. ASSY	
			D-IA-5010863-0-0	#	1	ETCHED CIRCUIT BOARD	
			A-SP-5410864-0-8			TEST PROCEDURE	
			A-SP-5410864-0-9			ASSEMBLY PROCEDURE	
X		14	D-CS-5411086-0-1	#	4	PWR LINE MONITOR/15V REG	
			A-SP-11/45-TA-2			TEST PROCEDURE	
			A-SP-5411086-0-3			ENGINEERING SPECIFICATION	
			D-IA-7010138-0-0			HARNESS INTERCONNECTION	
		15	D-IA-7011751-0-0			CAP MOV BOARD ASSY	
		16	D-CS-5411689-0-1			CAP MOV ASSY	

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	SHEET	SIZE	CODE	NUMBER	REV
DRAWING DIRECTORY POWER SUPPLY H765	3 OF 5	B	DD	H765-Ø	S

DRB 108

DEC 16-(325)-1062-2B-R972

CUSTOMER PRINT SET				MFG. SET	MECHANICAL					
1					FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
					1	E-UA-H765-Ø-Ø	S	2	POWER SUPPLY H765	
						K-PL-H765-0-DBP			UNIT ASSY (P.L.)	
						D-IA-7009950-0-0		1	THROUGH WIRE	
					2	E-IA-7009752-0-0		1	CHASSIS, POWER SUPPLY	
						E-IA-7411682-0-0		1	CHASSIS, POWER SUPPLY	
						D-MD-7411685-0-0		1	SIDE, POWER SUPPLY	
						D-MD-7411684-0-0		1	HOUSING COMP. CHASSIS	
					3	E-AD-7011486-0-0		2	TRANSFORMER ASSY	
						C-MD-7414301-0-0		1	COVER	
					4	D-AD-7014420-0-0		2	AC INPUT BOX ASSY	
						A-DC-7412303-0-1		1	DECAL 115V	
X						D-AD-7012500-0-0		1	POWER CORD	
						A-DC-7412380-0-1		1	DECAL 230V	
					5	D-IA-7009812-0-0		1	CHASSIS COMPONENT MTG.	
						D-IA-7411765-0-0		1	PLATE SWITCH	
						D-IA-7411766-0-0		1	PLATE COMPONENT MTG.	

CUSTOMER PRINT SET				MFG. SET	MECHANICAL					
1					FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO / FILE DATE
					6	D-UA-5413089-0-0			PILOT CONTROL BOARD	
					8	B-DD-H744-Ø		2	DRAWING DIRECTORY H744	
					9	B-DD-H745-Ø		2	DRAWING DIRECTORY H745	
					10	B-DD-H754-Ø		3	DRAWING DIRECTORY H754	
					11	D-IA-7009949-0-0		1	COVER, POWER SUPPLY	
						C-MD-7412473-0-0		1	STRIP, CLAMP	

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	SHEET	SIZE	CODE	NUMBER	REV
DRAWING DIRECTORY POWER SUPPLY H765	SHEET 4 OF 5	B	DD	H765-Ø	S

MECHANICAL

CUSTOMER PRINT SET	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
1		12	D-CS-5410864-0-1		3	POWER DIST. BD. ASSY	
			C-MD-7412192-0-0		1	SHIELD	
			D-MD-7411704-0-0		1	BRACKET, CONN. MTG.	
			C-IA-9305937-0-0			MATE-N-LOK FIXTURES	
			D-IA-5010863-0-0		1	ETCHED CIRCUIT BD.	
			K-CO-5410864-0-4			X-Y COORDINATE HOLE LOC.	
			D-AH-5410864-0-5		1	ASSY DRILLING HOLE LAYOUT	
			B-MH-5410864-0-6		1	MODULE ECO HISTORY	
			5010863		REF	ETCH CIRCUIT BOARD	
	X	13	A-SP-3700174-0-0	-	2	PACKAGING INSTRUCTIONS	
			A-PS-9905664-0-0	-	2	REGULAR SLOTTED CARTON	
			A-PS-9905665-0-0	-	2	LAMINATED BUILDUP	
		14	D-AH-5411086-0-5		1	ASSY DRILLING HOLE LAYOUT	
			B-MH-5411086-0-6		1	MODULE ECO HISTORY	
		15	D-AD-7011486-0-0		1	ASSEMBLY DRAWING	
		16	D-AH-5411689-0-5		1	ASSY DRILLING HOLE LAYOUT	
			D-MH-5411689-0-6		1	MODULE ECO HISTORY	

CUSTOMER PRINT SET	MFG SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE

CUSTOMER PRINT SET CODES

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

TITLE: DRAWING DIRECTORY
POWER SUPPLY H765

SHEET 5 OF 5 | SIZE: B | CODE: DD | NUMBER: H765-Ø | REV: S

DRB 108

OEC 16-(325)-1062-28-R972

LEGEND	
NUMBER	VARIATION
H765-A	120V 50/60 HZ
H765-B	240V 50/60 HZ
H765-C	120V 50/60 HZ NO H754
H765-D	240V 50/60 HZ NO H754
H765-P	120V 50/60 HZ NO REG
H765-R	240V 50/60 HZ NO REG

NOTES

~~1. SEE TRANSFORMER ASSY E AD TOUCH~~
~~SHEET 2 FOR POSITIONING ORIENTATION~~
~~OF CRIMPED PLUG WIRES~~

2. TIGHTEN FAN SCREWS TO 2 IN-LBS WITH A TORQUE SCREW DRIVER.

~~3. USE TEFLON TAPE IN PLACE OF~~
~~WASHER USING ROTRON FANS.~~

4. INSTALL A.B.S VINYL, VIEW B-B ITEM #42 AND #43. CENTER 1/4 INCH FROM BOTTOM AND SIDES ON INSIDE WALL.

~~5. USE EXTERNAL TOOTH WASHER UNDER MOUNT~~
~~SCREW HEAD OF ABCD TRANSFORMERS ONLY.~~

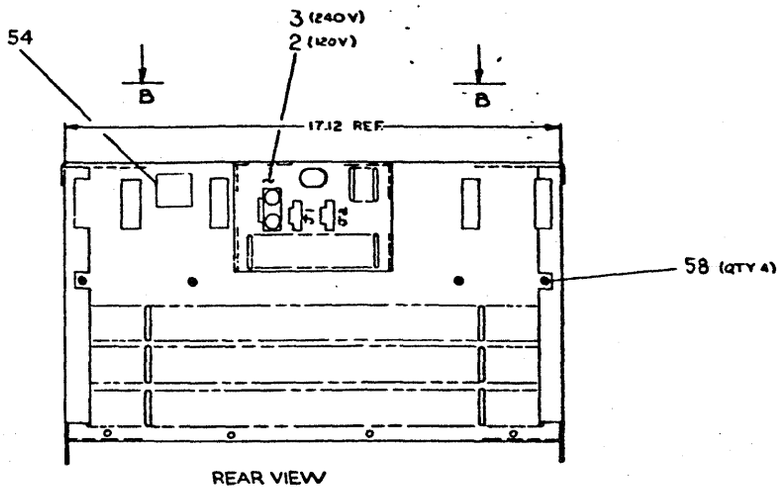
~~6. GREEN YEL STRAIN RELIEF FROM TRANSFORMER~~
~~TO BE FASTENED UNDER REGULATOR~~
~~MOUNTING SCREW.~~

~~7. IN EARLIER VERSIONS OF THE TRANSFORMER ASSEMBLY A CABLE CLAMP WAS USED IN PLACE OF THE 3 TIE WRAPS TO DRESS THE TRANSFORMER WIRES ALONG THE TRANSFORMER BODY.~~

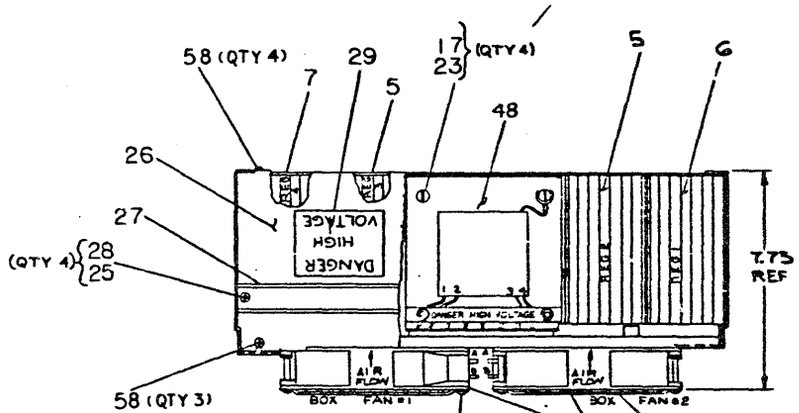
8. ITEM 7 - H754 IS NOT USED IN VARIATIONS C & D.
9. ITEM 53 IS TO BE USED TO PREVENT CORROSION OF CHASSIS AT GROUND STUD.

NOTES CON'T.

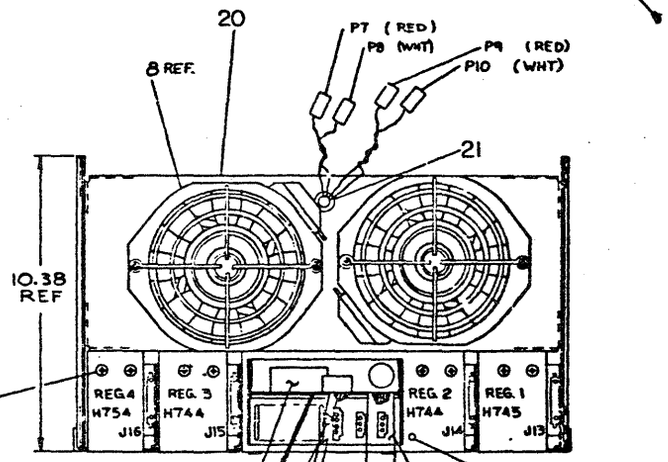
10. ITEM 16 & 56 (SCREW & WASHER) TO BE USED TO MOUNT 54110B4 (ITEM 4) IN AC INPUT BOX (ITEM 2 OR 3) IN A,B,C,D VERSION. IN P&R VERSION INSTALL SCREW & WASHER IN MOUNTING HOLES. THEY WILL BE USED ON A HIGHER ASSEMBLY.
11. ITEM NO. 57 NOT SHOWN CONNECTS G1 TO G2.
12. CONNECTS TO G1 ON AC INPUT ASSY.
13. NO CONNECTION MADE AT THIS ASSY. LEVEL.



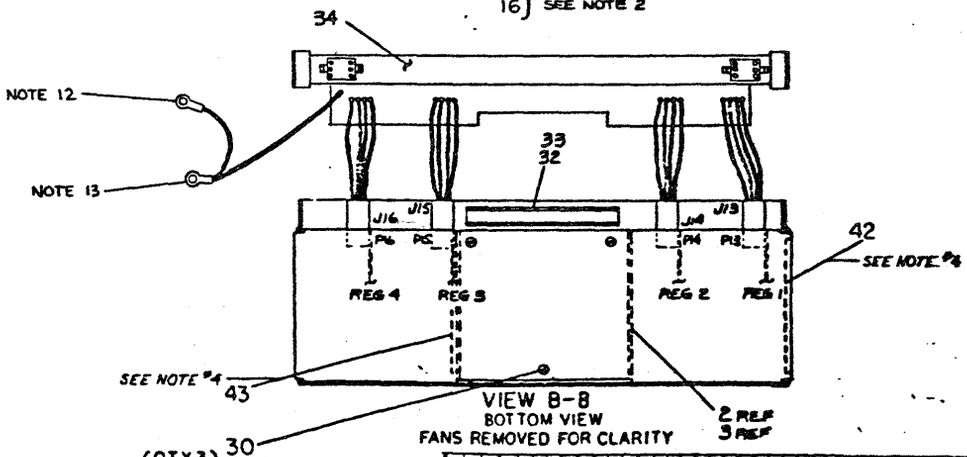
REAR VIEW



TOP VIEW



FRONT VIEW



VIEW B-B
BOTTOM VIEW
FANS REMOVED FOR CLARITY

CAUTION: OFF SHEET PARTS EXISTS
SEE K-PL-H765-0-DBP
Z 7590

FIRST USED ON (OPTION MODEL) BAII-K	QTY.	DESCRIPTION	PART NO.
		PARTS LIST	

TITLE: POWER SUPPLY, H765

SIZE E | NUMBER H765-0-A | REV Y

DWG H765-0-DBP

CONNECTION TABLE		
FROM CONNECTION	TO CONNECTION	SIGNALS
P2 FROM TRANS. ASSY	J2 FROM +15V REG.	28 VAC
J16 FROM PWR. DIST. BD.	P16 LOCATED ON REG. #4 (H754)	GND, -5V, +20V 28 VAC
J15 FROM PWR. DIST. BD	P15 LOCATED ON REG. #3 (H744)	GND, +5V, 28VAC
J14 FROM PWR DIST. BD	P14 LOCATED ON REG. #2 (H744)	GND, +5V, 28VAC
J13 FROM PWR DIST. BD	P13 LOCATED ON REG. #1 (H745)	GND, +15V, -15V 28 VAC
GND LUG LOCATED ON PWR. DIST. BD. G3	G1 YEL LUG	SAFTY GROUND
P1 FROM TRANS ASSY	J1 LOCATED ON PWR. DIST. BD	28 VAC

CONNECTION TABLE		
FROM CONNECTION	TO CONNECTION	SIGNALS
P4 FROM +15V REG.	J2 LOCATED ON PWR DIST BD	-15 V, LTC L, AC LO L, DC LO L, GND
P5 FROM TRANS. ASSY	J5 LOCATED ON AC INPUT BOX	120/240 VAC
P7 (RED)	FAN #1-A	120 VAC - HOT
P8 (WHT)	FAN #1-B	120 VAC - NEUTRAL
P9 (RED)	FAN #2-A	120 VAC - HOT
P10 (WHT)	FAN #2-B	120 VAC - NEUTRAL
T1-G	G1	SAFETY GROUND
G1	G2	ITEM 55

240 V
7014420-2
AC INPUT BOX

120 V
7014420-1
AC INPUT BOX

CBI 20A

5411689
CAP MOV ASSEMBLY

7011751
CAP MOV BOARD ASSY

TRANS ASSY
7011486

AC POWER CONTROL
54-13089

12149380
R1

REMOTE POWER CONTROL
1-3 : ON
2-3 : OFF

CPU CONSOLE POWER SWITCH
1-3 : ON

COMMON SIGNAL NAMES FOR 6 PIN AND 15-PIN MATE-N-LOKS ON POWER DISTRIBUTION BOARD

6-PIN	15 PIN
1 - GND	1 - +5V
2 - LTC L	2 - +15V
3 - DC LO L	3 - +20V
4 - AC LO L	4 - +5V
5 - SPARE 4	5 - GND
6 - SPARE 5	6 - SPARE 1
	7 - GND
	8 - GND
	9 - GND
	10 - SPARE 2
	11 - GND
	12 - SPARE 3
	13 - -15V
	14 - -5V
	15 - SPARE 6

SEE NOTE 8

POWER DISTRIBUTION BOARD
5410864-1A

REG #4 H754/H785

REG #3 H744

REG #2 H746

REG #1 H745

+15V DC REGULATOR 5411086

11/05-S CONSOLE PWR.

CHASSIS GROUND G2

TITLE	SIZE	DRAWING NO.	REV
POWER SUPPLY H765	E	UA H765-0-0	Y

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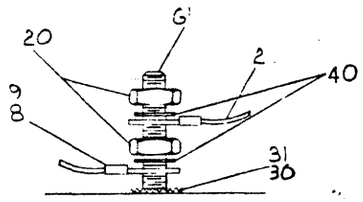
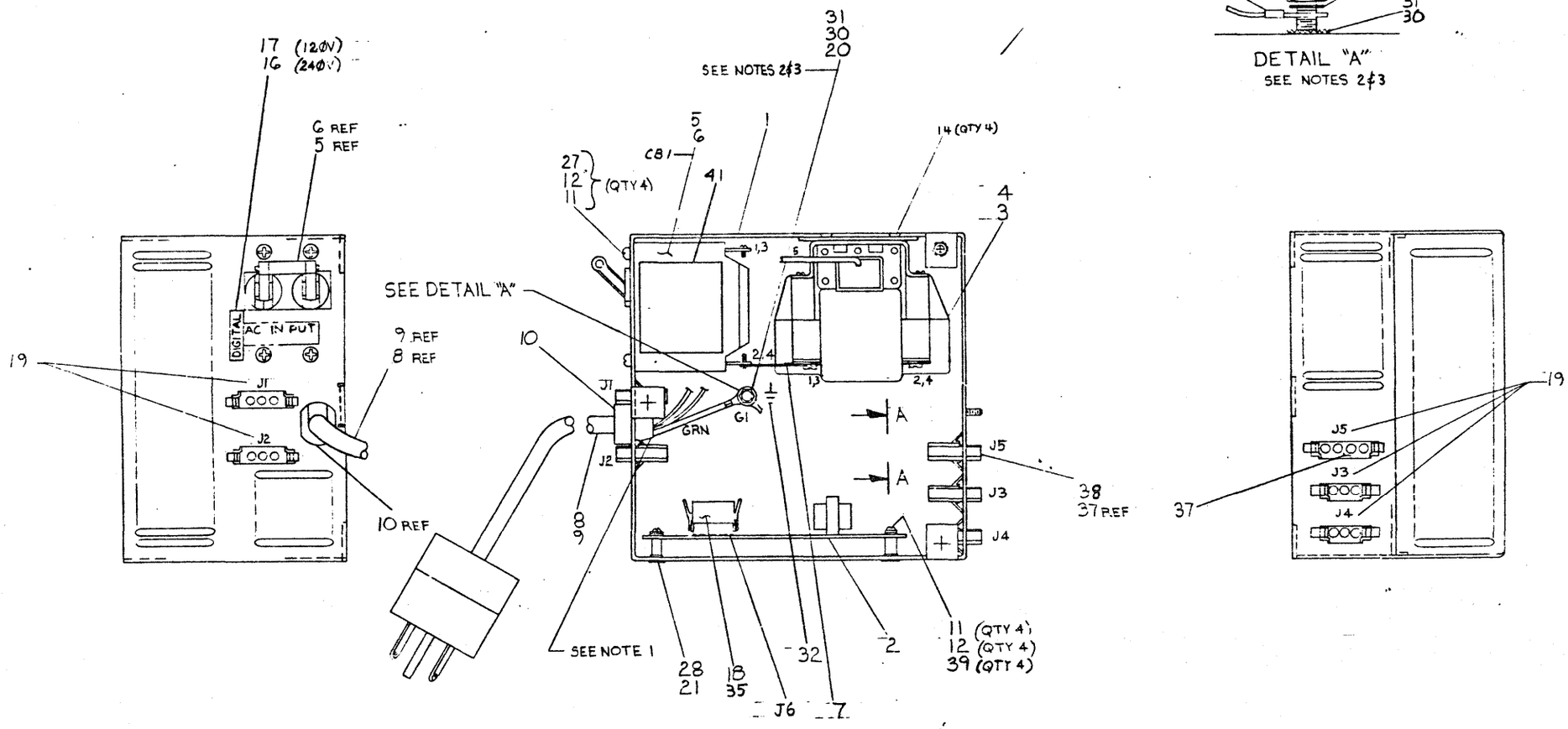
NOTES:

1. LEAVE .5 IN ±.2 IN OF OUTER INSULATION OF LINE CORD INSIDE BOX.
2. REMOVE PAINT MASK FROM G1 ONLY AND APPLY CONDUCTIVE GREASE TO AREA AROUND STUD G1 BEFORE INSTALLING ITEMS #31 (LOCKWASHER), LUG ON GRN/YEL WIRE AND #20 (HEXNUT).
3. ENSURE THAT LUG CONNECTED TO GRN/YEL WIRE FROM LINE CORD, WASHER ITEM #31, AND HEXNUT ITEM #20 ARE THE FIRST ITEMS INSTALLED ON G1. SEE DETAIL "A". APPLY 22 ±1 IN LBS. OF TORQUE TO BOTH HEX NUTS ON GROUND STUD.
4. STRIP LENGTH FOR ITEM #36 AND ITEM #29 SHALL BE .250 ± .015.
5. STRIP LENGTH FOR ITEM #37
   A. HAND CRIMP .187 ± .015
   B. AUTOMATIC STRIP .156 ± .015
6. STRIP LENGTH FOR ITEM #35
   A. HAND CRIMP .203 ± .015
   B. AUTOMATIC STRIP .182 ± .015

LEGEND	
NUMBER	VARIATION
7014420-1	120V 47-63HZ 12A
7014420-2	240V 47-63HZ 6A



DETAIL "A"
SEE NOTES 2 & 3



CAUTION:
OFF SHEET PARTS LIST EXIST
K-PL-7014420-0-DBP

REVISIONS				
CHK	CHANGE NO.	REV.		
	7014420-M0001	A	R. KENNEDY	
	7014420-ML003	B	W.F. BAUSHA	
	7014420-ML003	C	A. BARON	11 MAR 81
	7014420-ML004	D	A. BARON	3 MAR 81
	7014420-ML005	E	A. BARON	5-4-83

DESCRIPTION	DWG./PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		

ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES: OVER 0 TO 0.2	OVER 0.2 TO .72	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
SURFACE QUALITY IN ✓ MICROINCHES	MEDIUM ☐	±.004	±.005	±.012	±.016	±.024	±.04
	PREFERRED ☐	±.012	±.016	±.029	±.04	±.063	±0.1

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

DRN		6-30-77
CHK'D		7-26-77
ENG.		9-27-77
PROJ. ENG.		9-27-77
PROD.		9-27-77
NEXT HIGHER ASSY.		

FIRST USED ON H765

digital

TITLE: AC INPUT BOX ASSY

MATERIAL	SIZE	CODE	NUMBER	REV.
SEE K-PL-7014420-0-DBP	D	AD	7014420-0-C	E
SCALE				
FINISH	SHEET 1 OF 2	DIST.		

ML-1

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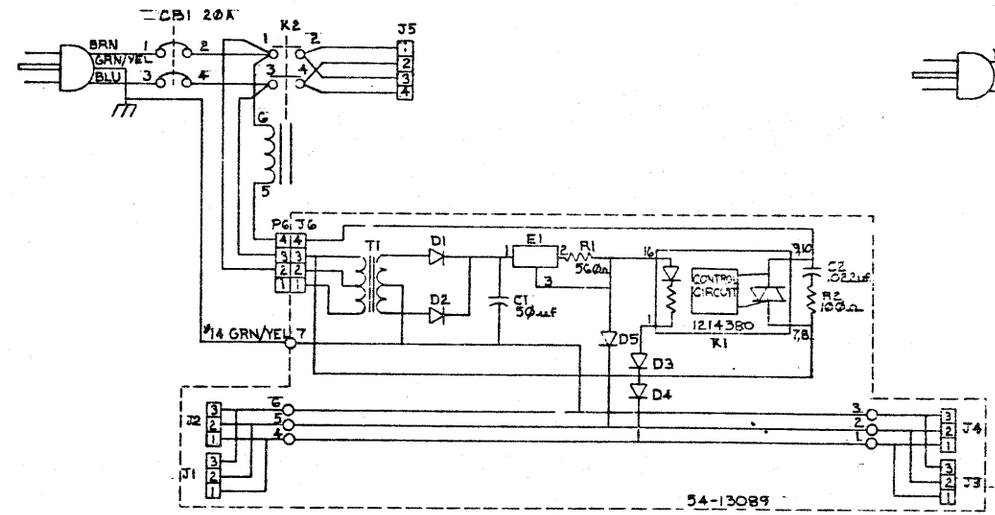
WIRE TABLE-1 VAR. 120V

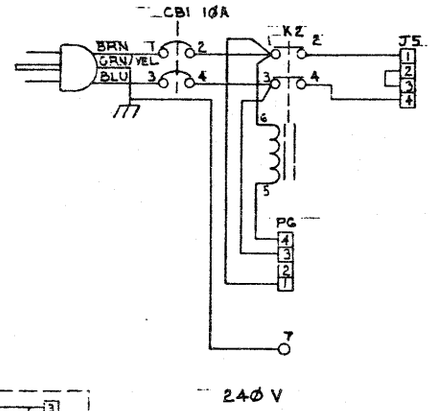
ITEM NO	DESCRIPTION AWG.	COLOR	FROM STRIP LENGTH	FROM CONN.	FROM WITH	TO STRIP LENGTH	TO CONN.	TO WITH	PRECUT WIRE LENGTH
8	14	GRN/YEL	SEE NOTE 3	PC-1			G1		
8	14	BRN		PC-2			CB1-1		
8	14	BLU		PC-3			CB1-3		
33	18	BLU	SEE NOTE4	K2-4	36	SEE NOTE 5	J5-2	37	3.0 ± 0.25
							J5-4	37	3.0± 0.25
34	18	BRN	SEE NOTE4	K2-2	36		J5-1	37	3.0± 0.25
						SEE NOTE 5	J5-3	37	3.0± 0.25
34	18	BRN	SEE NOTE4	K2-1	36	SEE NOTE 6	P6-2	35	3.5± 0.25
3	18	YEL				———	K2-6	—	3.5± 0.25
7	——	——	———	K2-1	—	———	CB1-2	—	STRAP
33	18	BLU	SEE NOTE4	K2-3	29	SEE NOTE 6	P6-3	35	3.0 ± 0.25
7	——	——	———	K2-3	—	———	CB1-4	—	STRAP
3	18	YEL	SEE NOTE4	K2-5	—	SEE NOTE 6	P6-4	35	4.75 ± 0.25
2	18	GRN/YEL	SEE NOTE 6	BD-1			G1		

WIRE TABLE-2VAR 240V

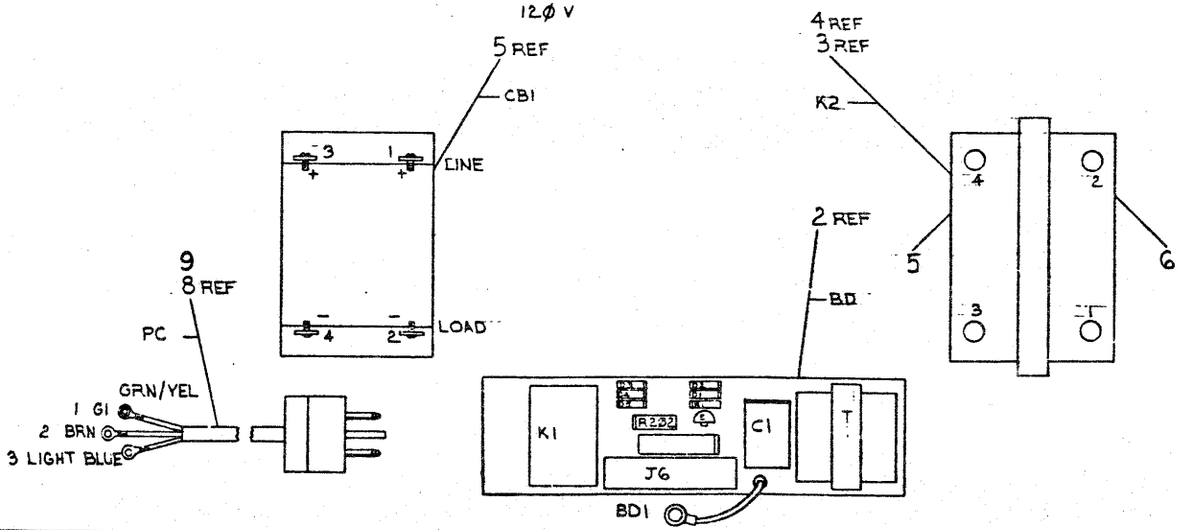
ITEM NO	DESCRIPTION AWG	COLOR	FROM STRIP LENGTH	FROM CONN	FROM WITH	TO STRIP LENGTH	TO CONN	TO WITH	PRECUT WIRE LENGTH
9	14	GRN/YEL	SEE NOTE 3	PC-1			G1		
9	14	BRN		PC-2			CB1-1		
9	14	BLU		PC-3			CB1-3		
33	18	BLU	SEE NOTE4	K2-4	29	SEE NOTE 5	J5-4	37	3.0± 0.25
34	18	BRN	SEE NOTE 4	K2-2	29	SEE NOTE 5	J5-1	37	3.0±0.25
34	18	BRN	SEE NOTE 5	J5-2	37	SEE NOTE 5	J5-3	37	2.0±0.25
34	18	BRN	SEE NOTE4	K2-1	36	SEE NOTE 6	P6-1	35	3.5±0.25
4	18	YEL				———	K2-6	—	3.5±0.25
7	——	——	———	K2-1	—	———	CB1-2	—	STRAP
33	18	BLU	SEE NOTE4	K2-3	29	SEE NOTE 6	P6-3	35	3.0 ±0.25
7	——	——	———	K2-3	—	———	CB1-4	—	STRAP
4	18	YEL	———	K2-5	—	SEE NOTE 6	P6-4	35	4.75±0.25
2	18	GRN/YEL	SEE NOTE 6	BD-1			G1		

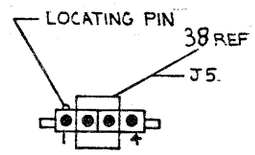


120 V



240 V





REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
AC INPUT BOX ASSY.	D	AD	7014420-0-0	E
SCALE —	SHEET 2 OF 2	DIST.		

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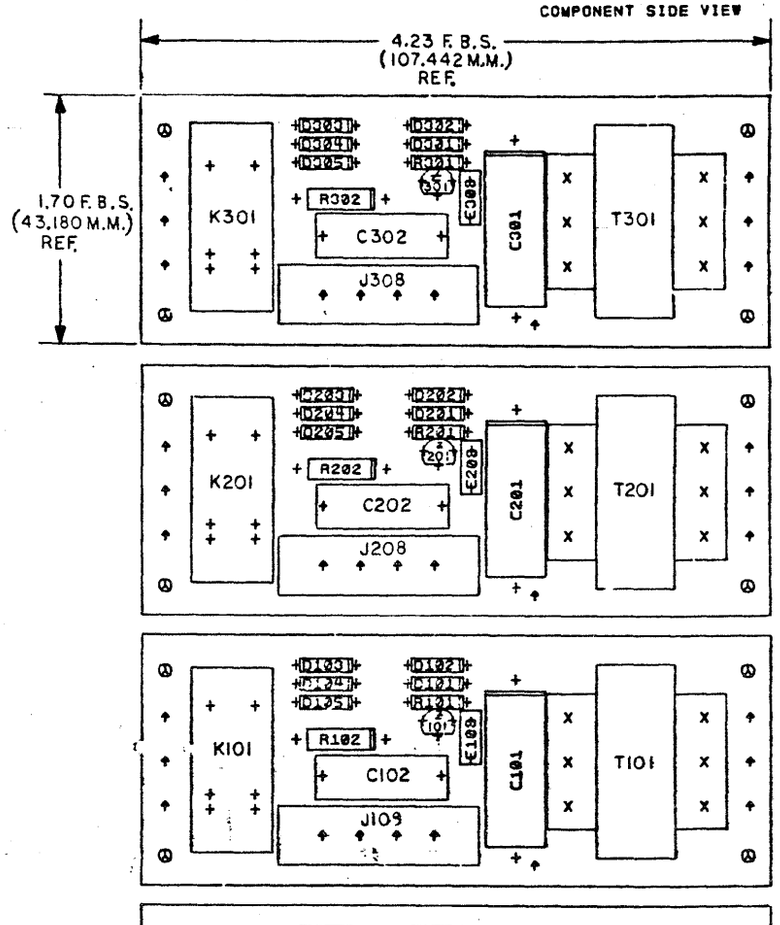
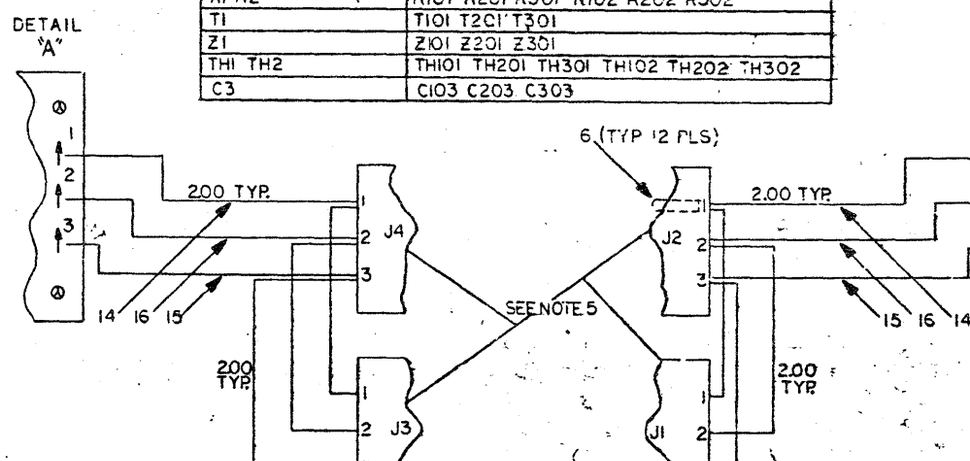
COMPONENT SIDE VIEW



REFERENCE DESIGNATION	CHART		
ACTUAL REF DES	SUPERFICIAL	REF DES	
C1 C2	C101 C201 C301	C102 C202 C302	
D1 D2	D101 D201 D301	D102 D202 D302	
D3 D4	D103 D203 D303	D104 D204 D304	
C5	D105 D205 D305		
J8	J108 J208 J308		
K1	K101 K201 K301		
R1 R2	R101 R201 R301	R102 R202 R302	
T1	T101 T201 T301		
Z1	Z101 Z201 Z301		
TH1 TH2	TH101 TH201 TH301	TH102 TH202 TH302	
C3	C103 C203 C303		



NOTES:
1. THIS BOARD REQUIRES U/L APPROVAL.
2. DO NOT SLIT BOARD MUST BE SHEARED.
3. REFER TO PARTS LIST FOR IDENTIFICATION OF NUMBERED ITEMS.
4. MULTI-REF DESIGNATIONS ARE USED TO ACCOMODATE PNL INS TECHNIQUES-SEE CHART FOR REF.
5. J1 J2 J3 J4 ARE NOT USED ON YA VARIATION.

CHK	CHANGE NO	REV
	ML004	E
	EVANS	
	W.BAUSHA	

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

SIGNATURES	DATE
DRN. STU EVANS	7-27-78
CHK'D.	1-4-79
ENG.	1/4/79
PROJ. ENG.	1/3/79
PROD.	1/3/79

digital

TITLE: A.C. CONTROL BOARD

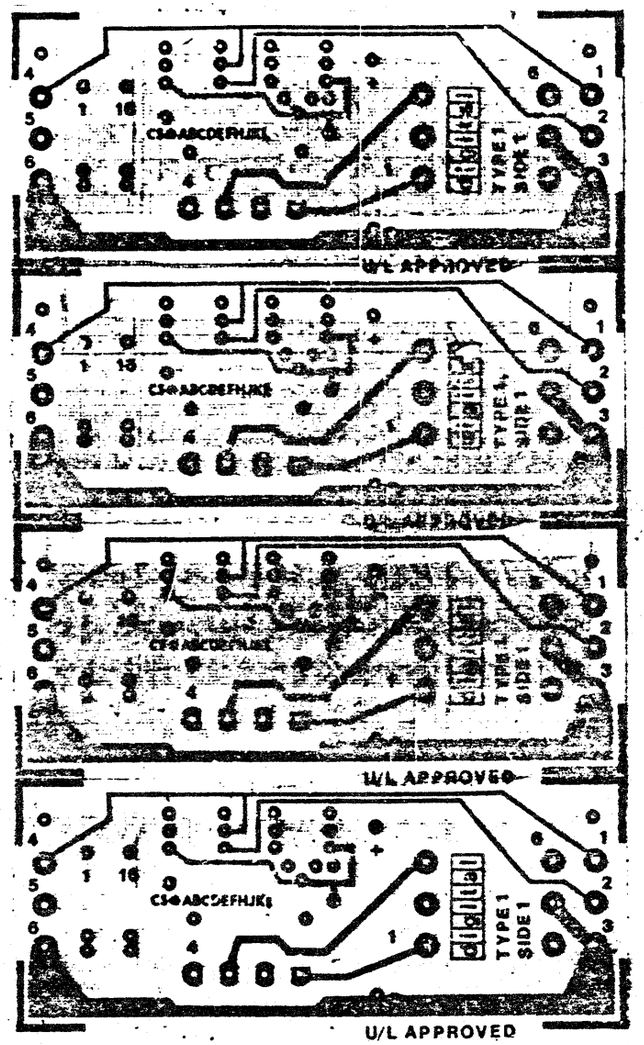
SCALE 2/1 | SIZE D | CODE UA | NUMBER 5413089-0-0 | REV E
SHT. 1 OF 3
NEXT HIGHER ASSY. B-DD-5413089-0-0

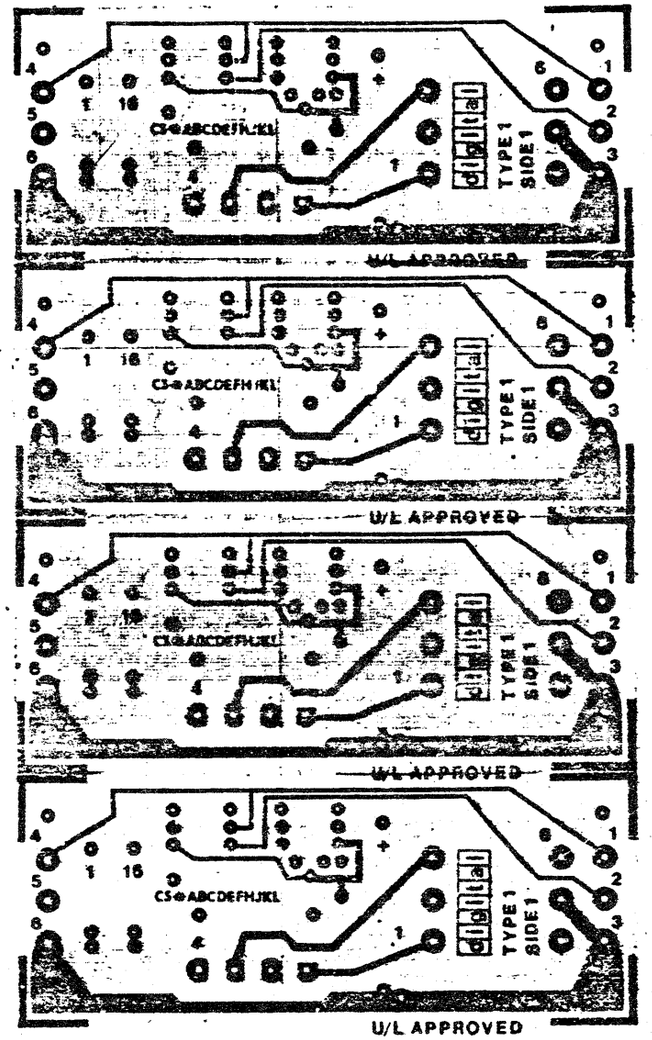
MS#

© 1979

L1

5413089 5013068C-P1





TITLE	SIZE	CODE	NUMBER	REV
AC. CONTROL BOARD	D	UA	5413089-Ø-Ø	E
SCALE 2 : 1	SHEET 2 OF 3	DIST		

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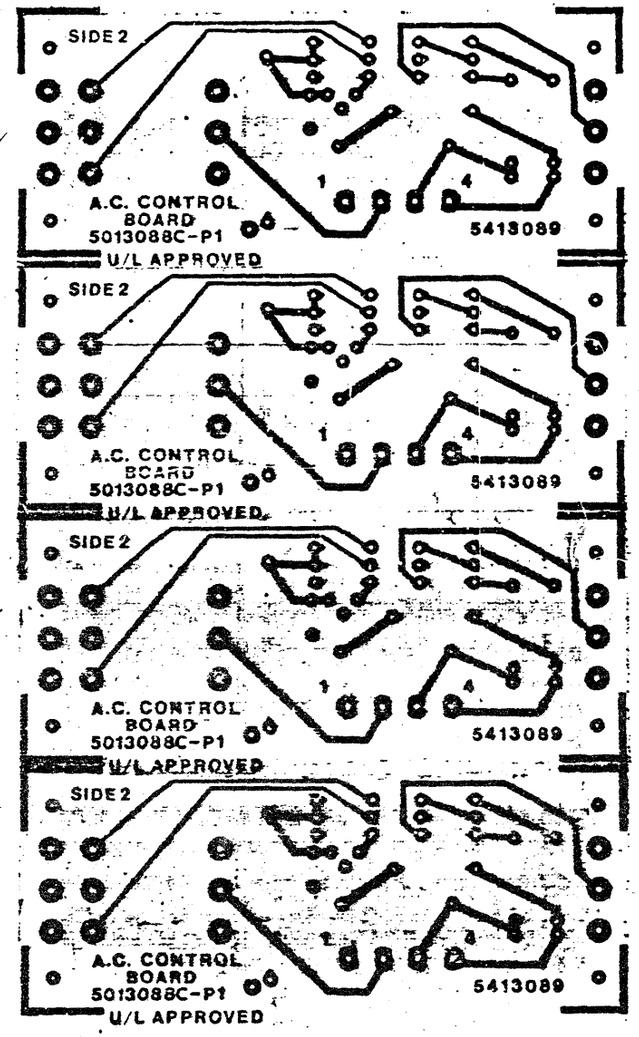
L2



TITLE	SIZE	CODE	NUMBER	REV.
A.C. CONTROL BOARD	D	UA	5413089-0-0	E
SCALE 2 : 1	SHEET 3 OF 3	DIST		

DUA 5413089-0-0 E

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CUSTOMER PRINT SET

DRAWING DIRECTORY	B-DD-H744-0
CIRCUIT SCHEMATIC	D-CS-H744-0-1
UNIT ASSY	E-UA-H744-0-0
PARTS LIST	K-PL-H744-Ø-DBP

MFG SET

TEST PROCEDURE	A-SP-H744-0-3
MFG SPEC	A-SP-H744-0-8
PACKAGING INST	A-PI-3700074-0-0

UNIT VARIATIONS

VAR	TITLE
H744	+5V REGULATOR
H744-YA	2.0 - 8.0V VARIABLE REGULATOR

REVISIONS			
REV.	R	S	T
CHANGE NO.	00019	00020	H744-ML021
CHK		JA	DICK B.

USED ON OPTION/MODEL: 11/45

SHEET 1 OF 4

DRN. D. FONTAINE	DATE 2-4-72	TITLE +5V REGULATOR	digital
CHK'D. D. FONTAINE	DATE 2-4-72		
PROJ. ENG. G. POTTER	DATE 2-24-72	SIZE B / CODE DD / NUMBER H744-Ø / REV T	
PROD. A. HIRSCH	DATE 2-24-72	DIST.	

DRB 106A

ML1

SIZE	CODE	NUMBER	REV.
B	DD	H744-Ø	T

DRAWING NO.	NO. OF SHTS	PART NO.	DESCRIPTION	REVISIONS			
D-AH-H744-Ø-5			ASSY DRILLING/HOLE LAYOUT	Y	Y	Y	Z
E-UA-H744-Ø-Ø	1		UNIT ASSY	Y	Z	AA	AB
D-CS-H744-Ø-1	1		CIRCUIT SCHEMATIC	Y	Y	Y	Z
B-MH-H744-Ø-6	4		MODULE ECO HISTORY	AD	AE	AE	AF
		5009725	ETCHED BOARD	H	H	H	H
A-SP-H744-Ø-3			TEST PROCEDURE	REF		REF	REF
A-SP-H744-Ø-8			MFG SPEC	REF		REF	REF
D-PS-1210737-Ø-Ø	1		HEAT SINK	REF		REF	REF
D-IA-5309756-Ø-Ø	1		REGULATOR BRK'T	REF		REF	REF
C-MD-5309760-Ø-Ø	1		COMPONENT COVER	REF		REF	REF
C-MD-5309759-Ø-Ø	1		CAPACITOR STRAP	REF		REF	REF
A-PI-3700074-Ø-Ø	2		PACKAGING INSTRUCTION	REF		REF	REF
A-PS-9905211-Ø-Ø	2		OUTER CARTON	REF		REF	REF
A-PS-9905212-Ø-Ø	2		INNER PACKAGING	REF		REF	REF
C-IA-7412388-Ø-Ø			2.5 CAP HOLDER	REF		REF	REF
C-MD-7419952-Ø-Ø			COMPONENT COVER	REF			REF
K-PL-H744-Ø-DBP	3		PARTS LIST	–	–	–	AB

NOTES:

—

REVISIONS		
DATE	CHG NO.	REV.
2-77	00018	R
3-78	00019	S
3-81	00020	T
	H744-ML021	

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USED ON OPTION/MODEL	
11/45	

DRN.	D. FONTAINE	2-4-72
CHK'D	D. FONTAINE	2-4-72
ENG.	G. POTTER	2-24-72
PROD.	A. HIRSCH	2-24-72

TITLE: +5V REGULATOR

SIZE	CODE	NUMBER	REV.
B	DD	H744-Ø	T

SHEET 2 OF 4

MLI

SIZE	CODE	NUMBER	REV.
B	DD	H744-Ø	T

DRAWING NO.	NO. OF SHTS	PART NO.	DESCRIPTION	REVISIONS
D-AH-H744-Ø-5			ASSY DRILLING/HOLE LAYOUT	Y Y Z
E-UA-H744-Ø-Ø	1		UNIT ASSY	W W1 AB
D-CS-H744-Ø-1	1		CIRCUIT SCHEMATIC	W W1 Z
B-MH-H744-Ø-6	4		MODULE ECO HISTORY	AC AE AF
		5009725	ETCHED BOARD	H H H
A-SP-H744-Ø-3			TEST PROCEDURE	REF REF
A-SP-H744-Ø-8			MFG SPEC	REF
D-PS-1210737-Ø-Ø	1		HEAT SINK	REF
D-IA-5309756-Ø-Ø	1		REGULATOR BRK'T	REF
C-MD-5309760-Ø-Ø	1		COMPONENT COVER	REF
C-MD-5309759-Ø-Ø	1		CAPACITOR STRAP	REF
A-PI-3700074-Ø-Ø	2		PACKAGING INSTRUCTION	REF
A-PS-9905211-Ø-Ø	2		OUTER CARTON	REF
A-PS-9905212-Ø-Ø	2		INNER PACKAGING	REF
C-IA-7412388-Ø-Ø			2.5 CAP HOLDER	REF
C-MD-7419952-Ø-Ø			COMPONENT COVER	REF REF
K-PL-H744-Ø-DBP	3		PARTS LIST	AB

NOTES:

REVISIONS		
DATE	CHG NO.	REV.
2-77	00019	R
3-81	H744-M1021	T

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USED ON OPTION/MODEL	
11/45	

DRN.	D. FONTAINE	2-4-72
CHK'D	D. FONTAINE	2-4-72
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PROD.	A. HIRSCH	2-24-72

TITLE: +5V REGULATOR

SIZE	CODE	NUMBER	REV.
B	DD	H744-Ø	T

SHEET 3 OF 4

MLI

SIZE	CODE	NUMBER	REV.
B	DD	H744-Ø	T

DRAWING NO.	NO. OF SHTS	PART NO.	DESCRIPTION	REVISIONS
D-AH-H744-Ø-5			ASSY DRILLING/HOLE LAYOUT	Y Y Z
E-UA-H744-Ø-Ø	1		UNIT ASSY	V V1 AB
D-CS-H744-Ø-1	1		CIRCUIT SCHEMATIC	W W1 Z
B-MH-H744-Ø-6	4		MODULE ECO HISTORY	AB AE AF
		5009725	ETCHED BOARD	H H H
A-SP-H744-Ø-3			TEST PROCEDURE	REF REF
A-SP-H744-Ø-8			MFG SPEC	REF
D-PS-1210737-Ø-Ø	1		HEAT SINK	REF
D-IA-5309756-Ø-Ø	1		REGULATOR BRK'T	REF
C-MD-5309760-Ø-Ø	1		COMPONENT COVER	REF
C-MD-5309759-Ø-Ø	1		CAPACITOR STRAP	REF
A-PI-3700074-Ø-Ø	2		PACKAGING INSTRUCTION	REF
A-PS-9905211-Ø-Ø	2		OUTER CARTON	REF
A-PS-9905212-Ø-Ø	2		INNER PACKAGING	REF
C-IA-7412388-Ø-Ø			2.5 CAP HOLDER	REF
C-MD-7419952-Ø-Ø			COMPONENT COVER	REF REF
K-PL-H744-Ø-DBP	3		PARTS LIST	AB

NOTES:

REVISIONS	DATE	CHG NO.	REV.
	2-77	00016	R
	3-81	00019 H744 MLO21	T

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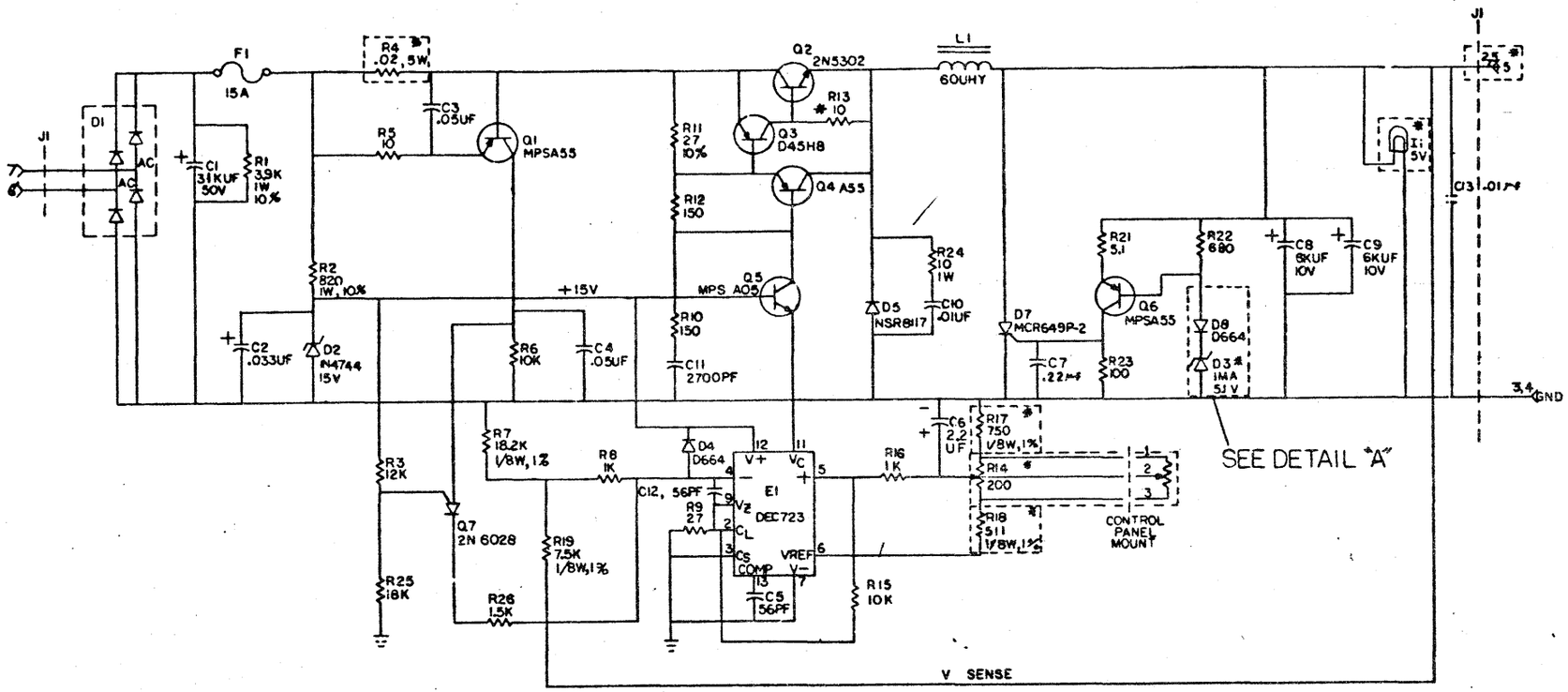
USED ON OPTION/MODEL	
11/45	

DRN.	D. FONTAINE	2-4-72
CHK'D	D. FONTAINE	2-4-72
ENG.	G. POTTER	2-24-72
PROD.	A. HIRSCH	2-24-72

TITLE
+5V REGULATOR

SIZE	CODE	NUMBER	REV.
B	DD	H744-Ø	T

SHEET 4 OF 4



*FUSIBLE RESISTOR

[ ] FOR YA VARIATION COMPONENT VALUES ARE AS FOLLOWS:-
R4 - .06 5W
R14 - 1K 10 TURN
R17 - 300 1/8W 1%
R19 - 150 1/4W 5%
D3 - IN754
I1 - 15V
J1-2,5 - +20-8.0V

* D9 - D664 ADDED FOR YA VARIATION ONLY

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

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
		PARTS LIST		
	ETCH BOARD REV	F H		

IN964A	SAME	MPSA55	
D664	IN3606	2N5302	
MCR649P-2		D45H8	
IN751A	SAME	MPSA05	
IN4744	SAME		
NSR8117			
2N6028			
DEC NO.	EIA NO.	DEC NO.	EIA NO.

SEMICONDUCTOR CONVERSION CHART

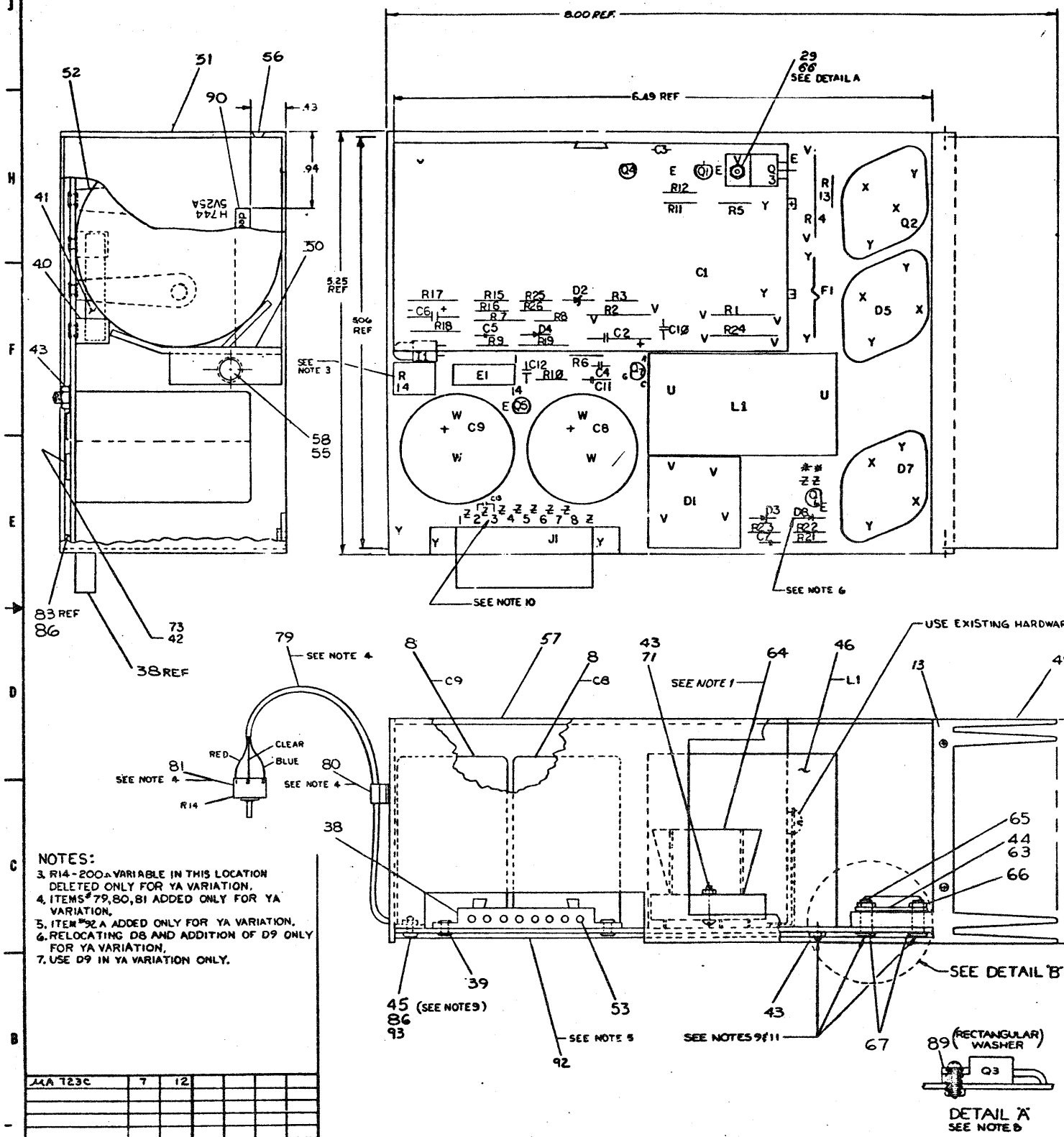
EQUIPMENT CORPORATION

TITLE: +5V REGULATOR

SIZE: D | CAGE NO.: DCS | NUMBER: H744-0-1 | REV: Z

SHEET 1 OF 1

| REVISIONS | | |



NOTES:

1. APPLY ITEM #63 (COMPOUND) BETWEEN TRANSISTOR (Q2), DIODES (D5, D7) AND ITEM #44 (WASHER) ALSO BETWEEN ITEM #44 (WASHER) AND HEAT SINK (ITEM #49). ALSO APPLY ITEM #63 (COMPOUND) BETWEEN ITEM #9 (DIODE BRIDGE) AND ITEM #64 (HEAT SINK BRIDGE).

NOTES CONT:

NOTE 8:
(1) Q3 SCREW HEAD SHOULD BE ON TOP OF FLAT RECTANGULAR WASHER AS SHOWN. APPLY 6 INCH LBS. OF TORQUE WHEN SECURING Q3 TO CKT. BOARD BEFORE SOLDERING.

NOTE 9: TORQUE APPLICATION
(1) APPLY 12 INCH LBS. OF TORQUE TO THE SCREWHEAD OF #4 HARDWARE EXCEPT Q3.
(2) APPLY 12 INCH LBS OF TORQUE TO #6 HARDWARE ON L1.
(3) APPLY 16 INCH LBS. OF TORQUE TO ALL #6 AND #10 HARDWARE EXCEPT ON L1.
(4) ALL HARDWARE TO BE TORQUED BEFORE SOLDERING.

NOTE 10:
INSERT C13 INTO ETCH PAD HOLES CONNECTED TO J1 TERMINALS, 2-3.

NOTE 11:
MIN TORQUE REQUIRED FOR QC INSPECTION:
8 INCH LBS FOR #4 HARDWARE;
12 INCH LBS. FOR #6 AND #10 HARDWARE
* SEE NOTE 7

NOTES:

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

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

MA 723C	7	12					
IC TYPE	GND	VIN					
IC PIN LOCATIONS			ETCH NO	ASSY	PROG PT	TO PT	
			JUMPER LIST				

FIRST USED ON OPTIMOD	D-UA-H742A-0-00						
ETCH BOARD REV	H						
D66 #	IN3606						
IN4744							
DEC NO.	EIA NO.	DEC NO.	EIA NO.				

SEMICONDUCTOR CONVERSION CHART

PARTS LIST

EQUIPMENT CORPORATION

+5V REGULATOR

E IA H744-0-0 AB

SHEET 1 OF 1

AUTOMATED BY PRTLST.3P(41) PARTS LIST

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	QTY PER VARIATION YA	REFERENCE DESIGNATOR
1	1		5009725-00	H744 H	1	1	
2	2		1002627-00	2.2MFD 20V 10% S.TANT	1	1	C6
3	3		1001610-00	.01 MFD 50V +80-20% Z5U CER	2	2	C10,C13
4	4		1001637-00	2700.0 MMF 100V 5%200PPM MICA	1	1	C11
5	5		1000050-00	.033 MFD 100V 80V 10% MYL	1	1	C2
6	6		1001774-00	.05 MFD 25V 10% Y5U DISC	2	2	C4,C3
7	7		1010858-00	31,000 MFD 50V +75-10% AL EL	1	1	C1
8	8		1010704-00	6000 MFD 10V +75-10% AL EL	2	2	C8,C9
9	9		1110714-00	NSS3514 FWR@400 I=20A (TRW)	1	1	D1
10	10		1105648-00	1N 4744 VZ= 15.0 10% 1W	1	1	D2
11	11		1100114-00	D 664 QS\75PCB PIV= 25V SP	2	-	D4,D8
		CONT			-	3	D4,D8,D9
12	12		1110715-00	NSR8117 PIV= 75 I=20A TO3 SM	1	1	D5
13	13		9009142-02	SCREW, PHILLIPS FLAT HEAD, SELF	4	4	
14	14		1109465-00	MCR 649P2SCR@ 50V I=20A TO41	1	1	D7
15	15		1110925-00	ITTZ429 VZ= 5.1 2% .40W M	1	0	D3
16	16		1300250-00	150.0 .25 W 5.0 % CC	2	-	R12,R10
		CONT			-	3	R12,R10,R18
17	17		1301317-00	10.0 .25 W 5.0 % CC	1	1	R5
18	18		1302927-00	3.90 K 1.0 W10.0 % CC	1	1	R1
19	19		1300358-00	820.0 1.0 W10.0 % CC	1	1	R2
20	20		1310876-00	.02 5.0 W 3.0 % WW	1	0	R4
21	21		1300479-00	10.0 K .25 W 5.0 % CC	2	2	R6,R15
22	22		1302465-00	18.0 K .25 W 5.0 % CC	1	1	R25
23	23		1302411-00	511.0 .25 W 1.0 % RN55D-F10	1	0	R18
24	24		1300365-00	1.0 K .25 W 5.0 % CC	2	2	R8,R16
25	25		1309412-00	18.20 K .25 W 1.0 % RN55D-F10	1	1	R7
26	26		1301522-00	27.0 .25 W 5.0 % CC	2	2	R9,R11
27	27		1302955-00	750.0 .25 W 1.0 % RN55D-F10	1	0	R17
28	28		1301420-00	*** THIS ITEM IS NOT USED ***	-	-	

REVISION HISTORY			BASIC PART NO: 0H744				
ENG	ECO NUMBER	REV	SECTION A OF A	DRN: W.G.	DATE: 12-15-71	DIGITAL	
G.P	H744-ML021	AB	SECTION.VARIATION INDEX [A] 00,YA [B] [C] [D] [E] [F] [H] [J] [K] [L] [M] [N]	CHK'D: D. FONTAINE	DATE: 12-19-71	TITLE PARTS LIST 5V REGULATOR	
				DES.ENG: G. POTTER	DATE: 12-28-71		
				RESP.ENG.: G. POTTER	DATE: 12-28-71	DOCUMENT NUMBER	
				MFG.ENG.: A. HIRSCH	DATE: 01-07-72	SIZE: K / CODE: PL / NUMBER: H744-0-DBP / REV: AB	
				ASSEMBLY NUMBER: E-UA-H744-0-0	TOP DOCUMENT NUMBER: *B-DD-H744-0	FILE NAME: ML04AB.PLS	EDIT #: 13

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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	YA	REFERENCE DESIGNATOR
29	29		9006011-01	SCREW,PAN,PHIL 4-40X 3/8 SS	1	1	
30	30		1300229-00	100.0 .25 W 5.0 % CC	1	1	R23
31	31		1309422-00	5.10 .25 W 5.0 % CC	1	1	R21
32	32		1310852-00	200.0 .50 W20.0 % POT	1	0	R14
33	33		1510196-00	2N 5302/HSNPN 200WC SI 60 40 M	1	1	Q2
34	34		1510706-00	XA 55 PNP 500MW SI 60 50 P	3	3	Q1,Q6,Q4
35	35		1510708-01	D 45H8CPNP 50WT SI 60 60 Y	1	1	Q3
36	36		1510705-00	XA 05 NPN 500MW SI 60 50 P	1	1	Q5
37	37		1910415-00	723 VOLT REG VAR 2/37V	1	1	E1
38	38		1209340-00	MATE-N-LOK 8POS COMM HSG,SKT	1	1	J1
39	39		9009000-00	EYELET,ROLL FLANGE .1210DX .156	6	6	
40	40		9007203-00	CLIP, FUSE, WITH STOP, SCREW MOU	2	2	
41	41		1213237-01	FUSE, RECTIFIER 15A, 65V	1	1	F1
42	42		9009669-01	SCREW,PAN,SLOT 10-32X 5/16 SS	4	4	
43	43		9008185-00	NUT,KEP 6-32X1/4 AF	3	3	
44	44		9006721-00	WASHER, SPECIAL INSULATING, #294	3	3	
45	45		9008301-01	SCREW,PAN,PHIL 4-40X 1/4 SS	2	2	
46	46		1510850-00	44. UA 25A #MMC4347	1	1	L1
47	47		1300171-00	10.0 1.0 W 5.0 % CC	1	1	R24
48	48		1000012-00	56.0 MMF 100V 5%200PPM MICA	2	2	C5,C12
49	49	D-PS-1210737-0-0		HEAT SINK REGULATOR	1	1	
50	50	C-IA-12388-0-0		HOLDER, CAPACITOR 2.5	1	1	
51	51	D-IA-5309756-0-9		BRACKET, REGULATOR	1	1	
52	52	C-MD-5309759-0-0		STRAP, CAPACITOR	2	2	
53	53		1209456-01	MATE-N-LOK SKT COMM PC MTG LOOSE	8	8	
54	54		9006009-02	*** THIS ITEM IS NOT USED ***	-	-	
55	55		9006633-00	WASHER,LOCK,INT,.2800D X .146ID	1	1	
56	56		9008020-02	SCREW,FLAT,PHIL, 6-32X 3/16	1	1	
57	57	C-MD-5309760-0-0		COVER	0	1	
58	58		9006020-01	SCREW,PAN,PHIL 6-32X 1/4 SS	1	1	
59	59		1510877-00	2N 6028 UJT 300MW R67B	1	1	Q7
60	60		1300488-00	12.0 K .25 W 5.0 % CC	1	1	R3
61	61		1305322-00	7.50 K .25 W 1.0 % RN55D-FIO	1	1	R19
62	62		1300391-00	1.50 K .25 W 5.0 % CC	1	1	R26
63	63		9008268-00	COMPOUND, THERMAL JOINT	A/R	A/R	
64	64		1210907-00	HT STNK BRIDGE RECT #695-1-G	1	1	
65	65		9008033-01	SCREW,PAN,PHIL 4-40X 9/16 SS	6	6	
66	66		9006557-00	NUT,KEP 4-40X 1/4 AF	7	7	
67	67		9006632-00	WASHER,LOCK,INT,.2600D X .120ID	8	8	
68	68		1209219-01	LAMP 6V@200MA,T1-3/4PINS#2319	1	0	I1
69	69		1301424-00	680.0 .25 W 5.0 % CC	1	1	R22
70	70	A-PI-3700074-0-0		PACKAGING INSTRUCTIONS	1	1	
71	71		9006025-01	SCREW,PAN,PHIL 6-32X 5/8 SS	1	1	
72	72		1209169-00	LAMP, 15V @ .040AMP MAX, .075 CP	0	1	I1
73	73		9006635-00	WASHER,LOCK,INT,.3100D X .200ID	4	4	
74	74		9009157-00	*** THIS ITEM IS NOT USED ***	-	-	
75	75		9107302-11	*** THIS ITEM IS NOT USED ***	-	-	
76	76		9107278-11	*** THIS ITEM IS NOT USED ***	-	-	

DIGITAL	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
	5V REGULATOR		K	PL	H744-0-03P	AB

P A R T S L I S T

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	QTY PER VARIATION YA	REFERENCE DESIGNATOR
77	77		1505555-00	*** THIS ITEM IS NOT USED ***	-	-	
78	78		9107252-09	*** THIS ITEM IS NOT USED ***	-	-	
79	79	SEE NOTE	1700014-00	CABLE,COAX, 3 COND.	0	1	
80	80		9007079-00	CLAMP, CABLE, SCREW MNT, 1/8"	0	1	
81	81		1309532-04	1.0 K 2.0 W 5.0 % POT	0	1	R14
82	82		1301425-00	300.0 .25 W 5.0 % CC	0	1	R17
83	83		7419952-00	COVER COMPONENT	0	1	
84	84		1310876-02	.06 5.0 W 3.0 % WW	0	1	R4
85	85		1109991-00	1N 754A VZ= 6.8 5% .40W	0	1	D3
86	86		9008848-00	WASHER, FIBER, W/ADH. BACK, 1/2	0	2	
87	87		1010274-00	.22 MFD 50V +80-20% Z5U CER	1	1	C7
88	88		1312496-00	10.0 .25 W 5.0 % FUSE	1	1	R13
89	89		9009769-00	WASHER, RECTANGULAR .405X.225X.0	1	1	
90	90	A-DC-7416945-1-0		DECAL (H744)	1	1	
91	91		1214074-00	STRAP,THERMAL	1	1	
92	92	D-CS-H744-0-1		CIRCUIT SCHEMATIC	-	REF	
93	93	B-MH-H744-0-6		MODULE ECO HISTORY	-	REF	
94	94	K-CO-H744-0-4		X-Y COORDINATE HOLE LOCATION	-	REF	
95	95	D-AH-H744-0-5		ASSY/DRILLING HOLE LAYOUT	-	REF	

96 NOTE: CUT CABLE TO LENGTH OF 12 IN.

DIGITAL	TITLE	SECTION	SIZE	CODE	DOCUMENT NUMBER	REV
	5V REGULATOR	A OF A	K	PL	H744-0-DBP	AB

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DRAWING DIRECTORY

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CUSTOMER PRINT SET INDEX

THIS IS PRINT SET

	SEQUENCE
DRAWING DIRECTORY	B-DD-H745-Ø
CIRCUIT SCHEMATIC	D-CS-H745-Ø-1
UNIT ASS'Y	E-UA-H745-Ø-Ø

MFG. SET

	SEQUENCE
TEST PROCEDURE	A-SP-11/45-TA-2
MFG. SPEC.	A-SP-H745-Ø-8
PACKAGING INSTRUCTION	A-PI-3700074-0-0

UNIT VARIATIONS

VAR	TITLE	PRINT SET H745-1
H745	-15V REGULATOR	X

REVISIONS		
DATE	CHG. NO.	REV
—	H745-16	K
—	H745-17	L
—	H745-18	M
9-76	H745-19	N
10-76	H745-20	P
7-77	H745-22	R
10-78	H745-ML023	S

USED ON OPTION/MODEL	
11/45	

SHEET 1 OF 2

DRN. D FONTAINE	DATE 2-7-72	TITLE: -15V REGULATOR
CHK'D. J GAUDETTE	DATE 2-17-72	
PROJ ENG. G. POTTER	DATE 2-25-72	
PROD. A. HUSCH	DATE 2-25-72	SIZE B / CODE DD / NUMBER H745-Ø / REV S
FIELD SERV. A. ZINS	DATE 2-25-72	DIST

DRB 106

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
1	E-UA-H745-Ø-Ø	UNIT ASSY	E/M
	D-CS-H745-Ø-1	CIRCUIT SCHEMATIC	E
	D-AH-H745-Ø-5	ASSY/DRILLING HOLE LAYOUT	E
	B-MH-H745-Ø-6	MODULE ECO HISTORY	E
	A-SP-H745-Ø-8	MFG SPEC	E
	A-SP-11/45-TA-2	TEST PROCEDURE	E
	D-PS-1210737-0-0	HEAT SINK	M
	D-IA-5309756-0-0	REGULATOR BRACKET	M
	C-IA-5309761-0-0	2-5 CAP BRACKET	M
	C-MD-5309759-0-0	CAPACITOR STRAP	M
2	A-PI-3700074-0-0	PACKAGING INSTRUCTIONS	M
	A-PS-9905211-0-0	OUTER CARTON	M
	A-PS-9905212-0-0	INNER PACKAGE	M

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE

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

3 108A

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TITLE	SHEET	SIZE	CODE	NUMBER	REV
-15V REGULATOR	2 OF 2	B	DD	H745-Ø	S

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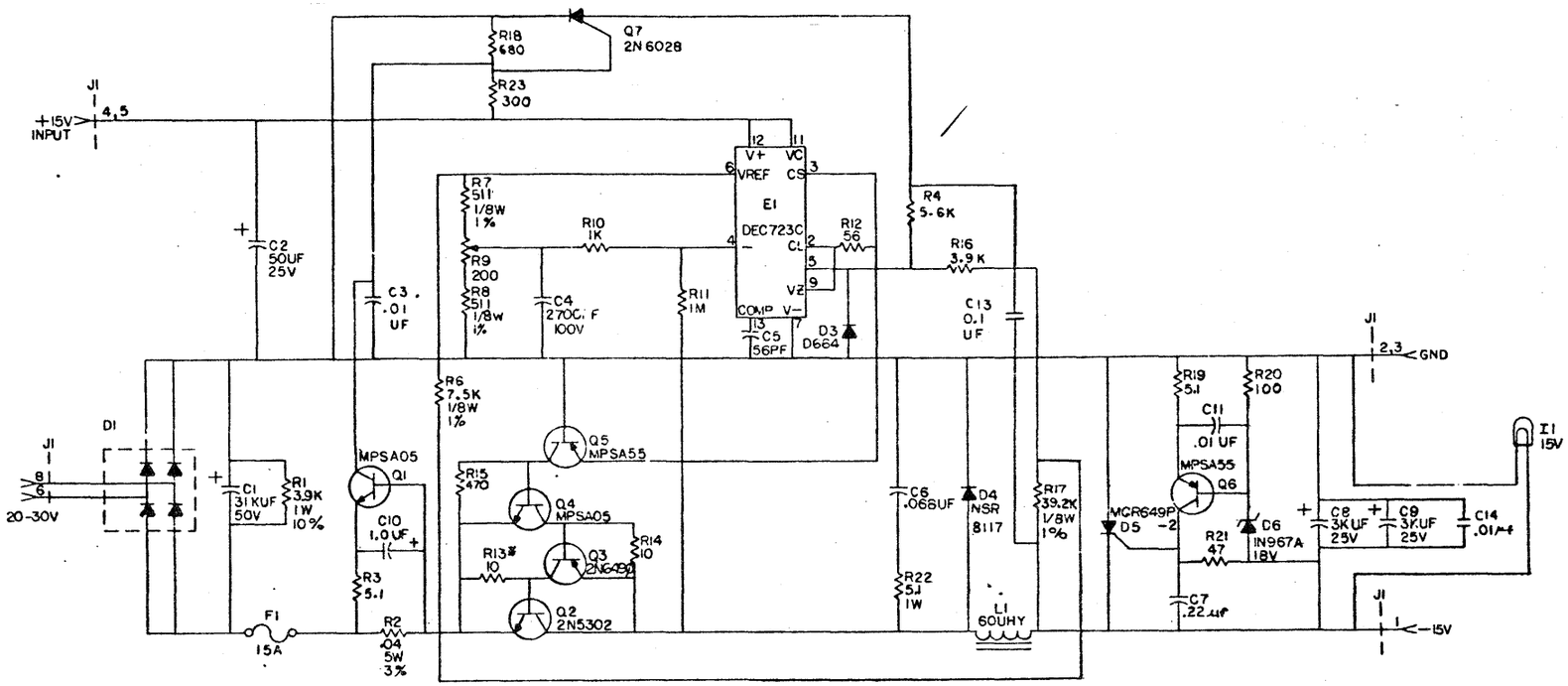
DIGITAL EQUIP. CORP., MAYNARD, MASS.



* FUSIBLE

UNLESS OTHERWISE INDICATED:

RESISTORS = 1/4W, 5%

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
		PARTS LIST		
	ETCH BOARD REV	E		

DEC NO.	EIA NO.	DEC NO.	EIA NO.
D664	IN 3606	D45H8	
NSR 8117		2N 6028	
MCR649P-2			
IN 967A	SAME		
2N 5302			
MPS A05			
MPS A55			

SEMICONDUCTOR CONVERSION CHART

REVISIONS			
CHK	CHANGE NO.		REV
	H745 - 00021		E

A. BARON 13NOV78 H745-MLD23 AA

DRN. Peggy J Lamberton DATE 11-8-71
CHK'D Nancy Moore DATE 11-9-71
ENG. DATE
PROJ. DATE 11/3/72
PROG. DATE 11/3/72
NEXT HIGHER ASSY
SCALE
SHEET 1 OF 1

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

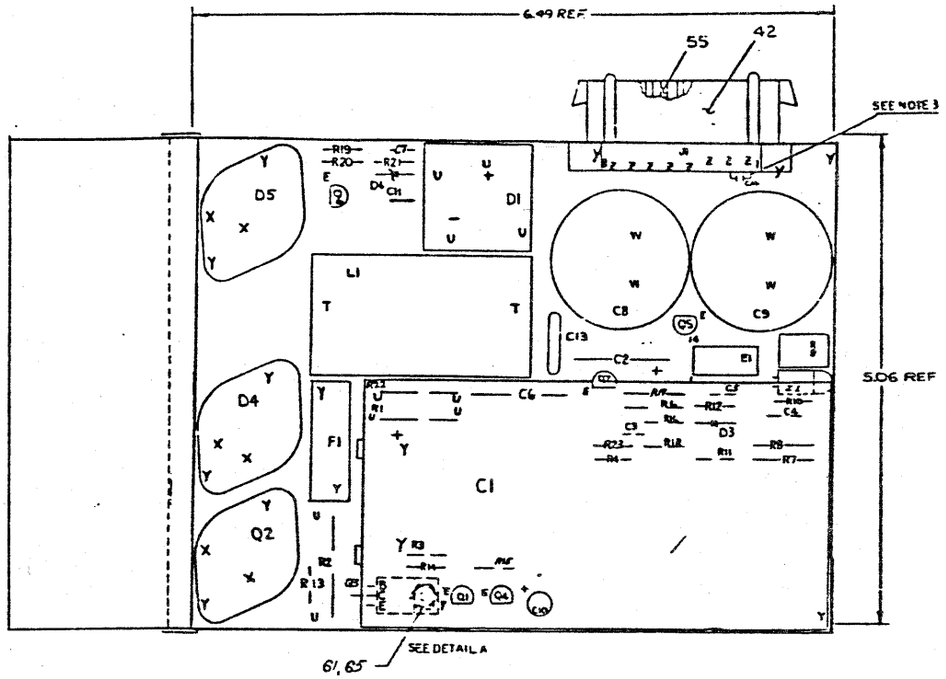
TITLE: -15V REG

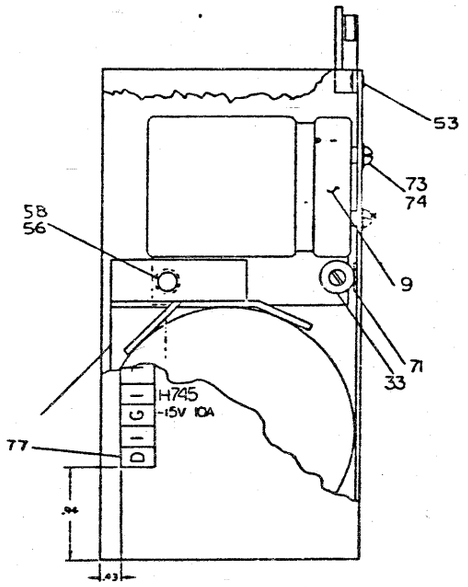
SIZE D | CODE CS | NUMBER H745 -0-1 | REV AA

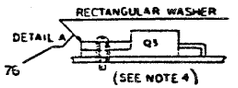
DIST

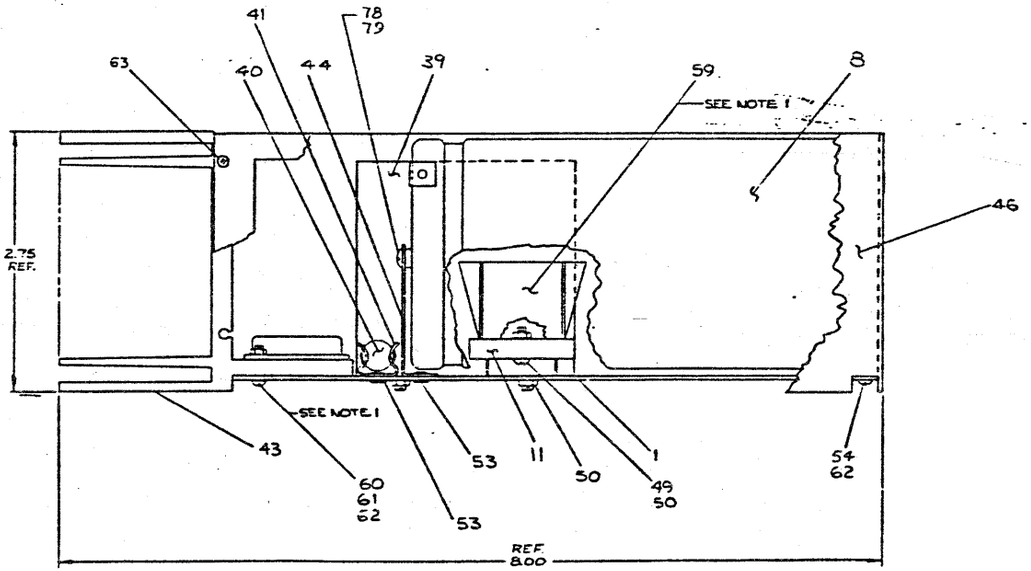
H745-0-1 AA

NOTE:
3. INSERT C14 INTO ETCH PAD HOLES CONNECTED TO J1 TERMINALS 1-2.









NOTE 4:
Q3 SCREW HEAD SHOULD BE ON TOP OF FLAT RECTANGULAR WASHER AS SHOWN. APPLY 6 INCH LBS. OF TORQUE WHEN SECURING Q3 TO CKT. BOARD BEFORE SOLDERING.

NOTE 5: TORQUE APPLICATION
(1) APPLY 8 INCH LBS. OF TORQUE TO ALL #4 HARDWARE EXCEPT Q3.
(2) APPLY 12 INCH LBS. OF TORQUE TO ALL #6 HARDWARE 16 IN. LBS. TO #10 HARDWARE
(3) ALL HARDWARE TO BE TORQUED BEFORE SOLDERING.

NOTE:
1. APPLY ITEM #51 (THERMAL COMPOUND) BETWEEN TRANSISTOR AND INSULATOR, WASHER (ITEM #52 ALSO BETWEEN WASHER & HEAT SINK FOR Q2 Q4 Q5 ALSO APPLY ITEM #51 (COMPOUND) BETWEEN ITEM #11 (DIODE BRIDGE AND ITEM #59 (HEAT SINK).
2. 1010621 MAY BE SUBSTITUTED FOR C13 (1000030).

		ASSY/DRILLING HOLE LAYOUT	D-AM-H745-0-S	70	
1		PACKING INSTRUCTIONS	API-3700074-0-0	69	
1	R18	RES. 680 ¼W 5%	1301474	68	
1	R23	RES 300 ¼W 5%	1301475	67	
1	C14 (SEE NOTE 2)	CAP. 0.1 UF 100V 20%	1000030	66	
1		SCR PH 8-32 X 3/16 LG	9000600-1	65	
1	I1	LAMP 15V	1214356	64	
6		SCR. PPH 6-32 X 5/16 LG. SELF TAPPING	9000942	63	
8				62	
7				61	
6				60	
1				59	
1				58	
1				57	
1				56	
1				55	
8				54	
2				53	
6				52	
3				51	
1				50	
1				49	
1				48	
1				47	
1				46	
2				45	
1				44	
1	F1			43	
1	L1			42	
1	E1			41	
1	Q3			40	
2	Q5, Q4			39	
2	Q1, Q2			38	
1	Q2			37	
1	R30			36	
2	R11			35	
1	R12			34	
1	R21			33	
1	R17			32	
1	R14			31	
1	R5			30	
1	R1			29	
1	R13			28	
1	R6			27	
1	R22			26	
1	R16			25	
1	R15			24	
1	R9			23	
1	R10			22	
1	R8			21	
1	R7			20	
1	R4			19	
1	R3			18	
1	R2			17	
1	R24			16	
1	R25			15	
1	R26			14	
1	R27			13	
1	R28			12	
1	R29			11	
1	R31			10	
1	R32			9	
				8	
1	C2		1341362-00	7	
1	C1			6	
1	C3			5	
1	C5			4	
1	C6			3	
1	C4			2	
2	C13, C9	CAP 3.0 UF 25V		1	
1	C7	CAP 330 UF 50V			
1	C12	CAP 4.0 UF 25V			
1	C8	CAP 50 UF 25V -10+75%			
1	C10	CAP 200 UF 100V 10%			
1	C11	CAP 2700PF MOX 5%			
3	C17, C3, C14	CAP 0.1 UF 25V			
		CAP 0.01 UF 25V			
		CAP 0.001 UF 25V			
		CAP 0.0047 UF 25V			
		CAP 0.0022 UF 25V			
		CAP 0.0015 UF 25V			
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digital EQUIPMENT CORPORATION
MAYNARD MASSACHUSETTS

DRAWING DIRECTORY

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CUSTOMER PRINT SET INDEX

THIS IS PRINT SET ☐☐☐☐

	SEQUENCE
DRAWING DIRECTORY	B-DD-H754-Ø
+20 VOLT REGULATOR	E-CS-H754-0-1
+20 VOLT REGULATOR	K-PL-H754-0-DBP
+20 VOLT REGULATOR	D-UA-H754-0-0

UNIT VARIATIONS

VAR	TITLE	PRINT SET 1
H754-0	+20 VOLT REGULATOR	X

REVISIONS	DATE	CHG. NO	REV
	10-75	H754-9	A
	11-3	H754-10	B
	7-14-83	H754 ML0019	C

USED ON OPTION/MODEL		DRN.	DATE	TITLE
		J.Fleming	2/21/74	
		CHK'D. J.Fleming	DATE 2/21/74	+20 VOLT REGULATOR
		PROJ ENG. E. Williams	DATE 3-13-74	
		PROD. Jack Hannan	DATE 5-14-74	SIZE B / CODE DD / NUMBER H754-Ø- / REV C
		FIELD SERV. Walt Aubee	DATE 7/25/74	DIST

SHEET 1 OF 3

DEC 16-12231-1062-V1-8942

DRB 106

ELECTRICAL

CUSTOMER PRINT SET 1	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
X		1	B-DD-H754-Ø	#	3	DRAWING DIRECTORY	
X			E-CS-H754-Ø-1	#	2	+20 VOLT REGULATOR	
			K-CO-H754-Ø-4		-	X-Y COORDINATE HOLE LOCATION	
			D-AH-H754-Ø-5		1	ASSY/DRILLING HOLE LAYOUT	
			B-MH-H754-Ø-6		1	MODULE ECO HISTORY	
			5010531		-	ETCHED CIRCUIT BOARD	
			A-SP-H754-Ø-8		3	MANUFACTURING SPEC	

MECHANICAL

CUSTOMER PRINT SET 1	MFG SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO / FILE DATE
X		1	E-CS-H754-0-1	#	2	+20 VOLT REGULATOR	
			D-PS-1210737-0-0		1	HEAT SINK REGULATOR	
			C-IA-5309758-0-0		1	CAPACITOR BRACKET	
		2	D-IA-5409756-0-0		1	BRACKET REGULATOR	
			A-SS-5309756-0-1		1	SILK SCREEN	
			A-SS-5309756-0-2		1	SILK SCREEN	
			A-SS-5309756-0-3		1	SILK SCREEN	

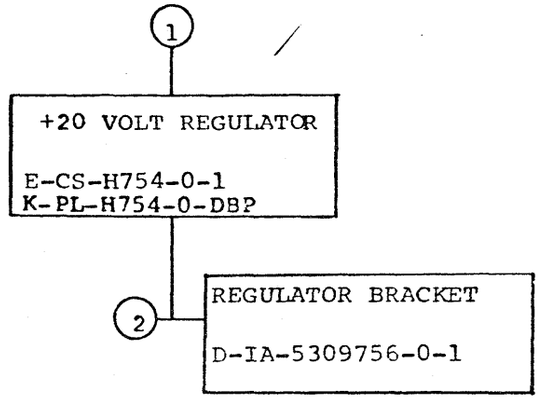
CUSTOMER PRINT SET CODES

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

TITLE		SIZE	CODE	NUMBER	REV
+20 VOLT REGULATOR	SHEET 2 OF 3	B	DD	H754-Ø	C

DPB 108

DEC 16-(325)-1062-2B-R972



TITLE		SIZE	CODE	NUMBER	REV
+20 VOLT REGULATOR	SHEET 3 OF 3	B	DD	H754-Ø	C

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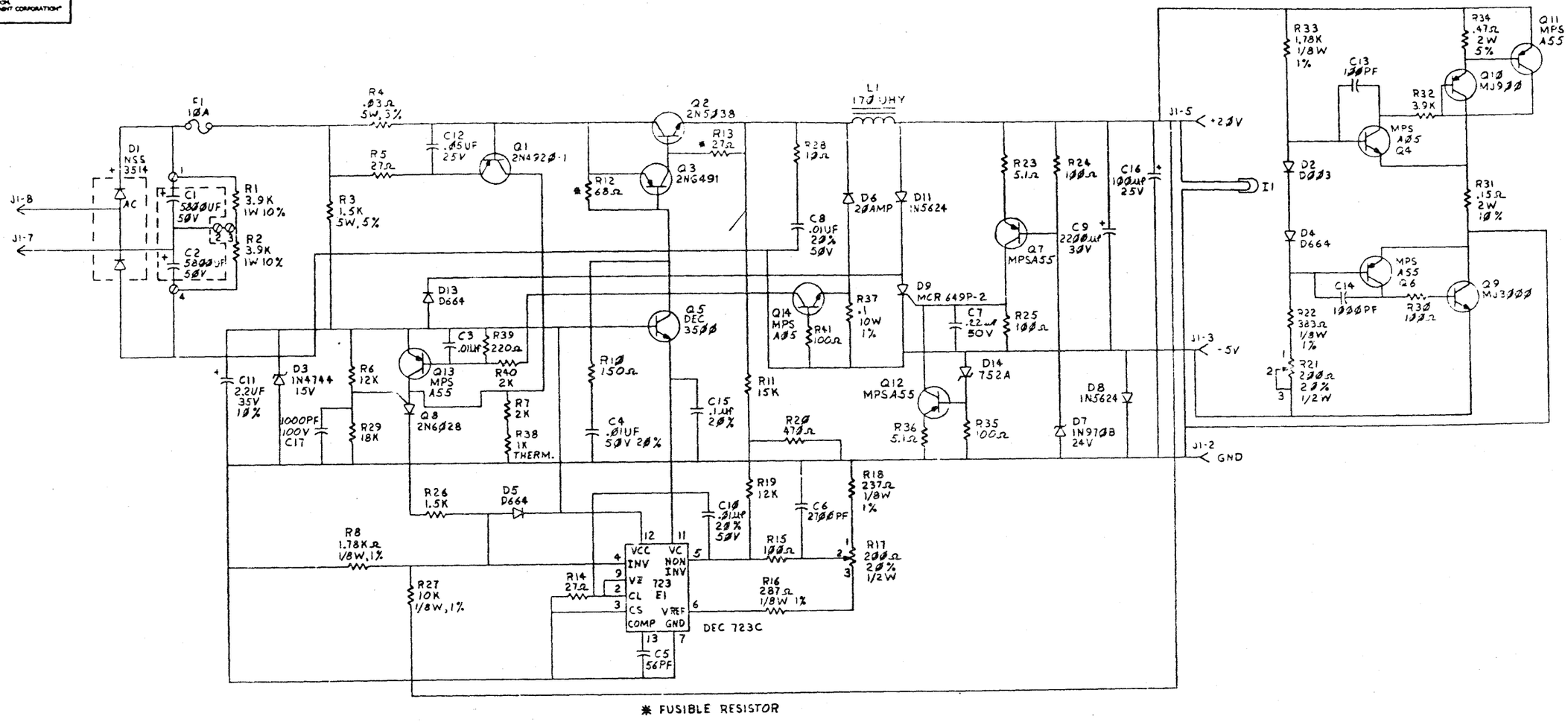

* FUSIBLE RESISTOR

REVISIONS			
CHK	CHANGE NO.	REV.	
	H754-MLØ19	W	
			M. COOK

DRAWN BESSONNETTE	8 25-72	FIRST USED ON H754
CHK'D R. VOWLES	12-17-72	digital
ENG. R. BURTON	5-7-73	TITLE +2Ø VOLT REGULATOR
PROJ. ENG. R. BURTON	5-7-73	
PROD L. BAPTISTE	5-9-73	
NEXT HIGHER ASSY.		SIZE D CODE CS NUMBER H754-Ø-1 REV. W
SCALE		
SHEET 1 OF 1		D ST.

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
1	1		5010531-00	H754 F	1	
2	2		1011363-00	*** THIS ITEM IS NOT USED ***	-	
3	3		1001774-00	.05 MFD 25V 10% Y5U DISC	1	C12
4	4		1211239-00	LAMP 28V 40MAAT1-3/4 WITH TU PIN	1	I1
5	5		1000012-00	56.0 MMF 100V 5%200PPM MICA	1	C5
6	6		1001637-00	2700.0 MMF 100V 5%200PPM MICA	1	C6
7	7		1001610-01	.01 MFD50/100V +80-20% DISC	4	C3,C8,C4,C10
8	8		1010859-00	2200 MFD +75-10% AL EL	1	C9
9	9		1000030-00	.1 MFD 100V 20% Z5U DISC	1	C15
10	10		1100114-00	PIV= 25 IO=135 MA	3	D5,D13,D4
11	11		1110714-00	RECT. ASSY PIV= 400 IO=20.00A	1	D1
12	12		1105648-00	VZ= 15.0 10% 1 W 1N4744	1	D3
13	13		1110715-00	PIV= 75 IO=20.00A TO-3	1	D6
14	14		1110856-00	VZ= 24.0 5% 400 MW 1N970B	1	D7
15	15		1109465-00	SCR PIV= 50 IO=20.00A MCR649P	1	D9
16	16		1102808-00	VZ= 5.6 5% 400 MW 1N752A	1	D14
17	17	BLANK			0	
18	18		1110420-00	PIV= 200 IO= 5.00A 1N5624	2	D11,D8
19	19		1301317-00	10.0 .25 W 5.0 % CF	1	R28
20	20		1302927-00	3.90 K 1.0 W10.0 % CC	2	R1,R2
21	21		1300391-00	1.50 K .25 W 5.0 % CF	1	R26
22	22		1305258-00	.47 2.0 W 5.0 % WW	1	R34
23	23		1301897-00	1.50 K 5.0 W 5.0 % WW	1	R3
24	24		1310876-01	.03 5.0 W 3.0 % WW	1	R4
25	25		1002431-00	2.2MFD 35V 10% S.TANT	1	C11
26	26		1302465-00	18.0 K .25 W 5.0 % CF	1	R29
27	27		1305124-00	287.0 .25 W 1.0 % RN55D-F10	1	R16
28	28		1300444-00	3.90 K .25 W 5.0 % CF	1	R32
29	29		1303312-00	10.0 K .25 W 1.0 % RN55D-F10	1	R27
30	30	BLANK			0	

REVISION HISTORY		
ENG	ECO NUMBER	REV
HC	H754-ML019	W

BASIC PART NO: 0H754

SECTION A OF A

SECTION.VARIATION INDEX
[A] 00
[B]
[C]
[D]
[E]
[F]
[H]
[J]
[K]
[L]
[M]
[N]

DRN: V. BISSONNETTE	DATE: 31-AUG-72	D I G I T A L
CHK'D: B. MANCHESTER	DATE: 17-DEC-72	TITLE: PARTS LIST +20 VOLT REGULATOR
DES.ENG: R. BURTON	DATE: 7-MAY-73	
RESP.ENG.: R. BURTON	DATE: 7-MAY-73	DOCUMENT NUMBER
MFG.ENG.: L. BAPTISTE	DATE: 9-MAY-73	SIZE: K; CODE: PL; NUMBER: H754-0-DBP; REV: W
ASSEMBLY NUMBER: E-UA-H754-0-0	TOP DOCUMENT NUMBER: B-DD-H754-0-0	FILE NAME: Z7488W.PLS; EDIT #: 7

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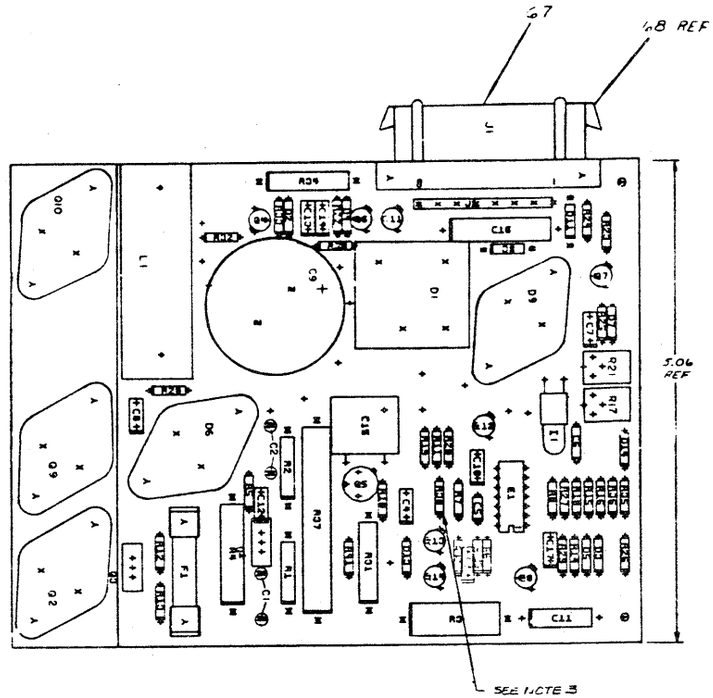
LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
31	31		1312496-02	68.0 .25 W 5.0 % FUSE	1	R12
32	32		1300229-00	100.0 .25 W 5.0 % CF	6	R15,R25,R30,R24,R35,R41
33	33		1300488-00	12.0 K .25 W 5.0 % CF	2	R6,R19
34	34		1302388-00	2.0 K .25 W 5.0 % CF	2	R7,R40
35	35	D-AH-H754-0-5		ASSY/DRILLING HOLE LAYOUT	REF	
36	36		1300250-00	150.0 .25 W 5.0 % CF	1	R10
37	37		1301522-00	27.0 .25 W 5.0 % CF	2	R14,R5
38	38	BLANK			0	
39	39		1304857-00	237.0 .25 W 1.0 % RN55D-F10	1	R18
40	40		1309422-00	5.10 .25 W 5.0 % CF	2	R23,R36
41	41		1310852-00	200.0 .50 W20.0 % POT	2	R17,R21
42	42		1513704-00	2N 6491 PNP 75MW SI 80 20	1	Q3
43	43		1510969-00	2N 5038 NPN 140WC SI 90 50 Y	1	Q2
44	44		1503209-00	DEC3500 NPN 5WC SI180 20 N	1	Q5
45	45		9009142-02	SCREW,TAP FLAT PHIL 4-	4	
46	46		1510706-00	XA 55 PNP 500MW SI 60 50 P	5	Q7,Q6,Q11,Q12,Q13
47	47		1910415-00	723 VOLT REG VAR 2/37V	1	E1
48	48		1610849-00	170.0 UH 7.5A #MMC4348	1	L1
49	49		1213237-00	FUSE, RECTIFIER 10A, 130V	1	F1
50	50		9007203-00	CLIP, FUSE, WITH STOP, SCREW MOU	2	
51	51		1510877-00	2N 6028 UJT 300MW R67B	1	Q8
52	52		9006735-00	EYELET,FUNNEL 0.0590DX0.187	4	
53	53	D-IA-5309756-4-0		BRACKET REG	1	
54	54	D-PS-1210737-0-0	1210737-00	HEAT SINK,EXTRUSION 5.120X2.62	1	
55	55	C-IA-5309758-0-0	5309758-00	HOLDER, CAP, 1.5	1	
56	56	C-MD-5300760-0-0		*** THIS ITEM IS NOT USED ***	-	
57	57		9007930-00	TERM,RING #10STUD CRIMP 16-2	4	
58	58		9006013-01	*** THIS ITEM IS NOT USED ***	-	
59	59		9006557-00	NUT,HEX EXT TOOTH LCKWSHR 4-40	10	
60	60		9006011-01	SCREW,MACH PAN PHIL 4-	4	
61	61		9006009-02	*** THIS ITEM IS NOT USED ***	-	
62	62		9006021-02	*** THIS ITEM IS NOT USED ***	-	
63	63		9008185-00	NUT,HEX EXT TOOTH LCKWSHR 6-32	5	
64	64		9006024-01	SCREW,MACH PAN PHIL 6-	1	
65	65		1210907-00	HEAT SINKS, 1.330MAX.	1	
66	66		9006732-00	EYELET,ROLLED 0.1210DX0.219	4	
67	67		1209456-00	/REPLACED BY 12-09456-01	8	
68	68		1209340-00	MATE-N-LOK 08SKT(1X08). HSG	1	J1
69	69		9107360-22	WIRE, 18AWG(19/30)IPVC 150V	A/R	
70	70		9107360-00	WIRE, 18AWG(19/30)IPVC 150V	A/R	
71	71		9008268-00	COMPOUND, THERMAL JOINT	A/R	
72	72		9006721-00	WASHER,SPECIAL INSULATG	3	
73	73		1300316-00	470.0 .25 W 5.0 % CF	1	R20
74	74		1300496-00	15.0 K .25 W 5.0 % CF	1	R11
75	75		1302612-00	1.78 K .25 W 1.0 % RN55D-F10	2	R33,R8
76	76		1305125-00	383.0 .25 W 1.0 % RN55D-F10	1	R22
77	77		1000042-00	1000.0 MMF 100V 5%200PPM MICA	2	C14,C17
78	78		1310147-00	.15 2.0 W10.0 % WW	1	R31

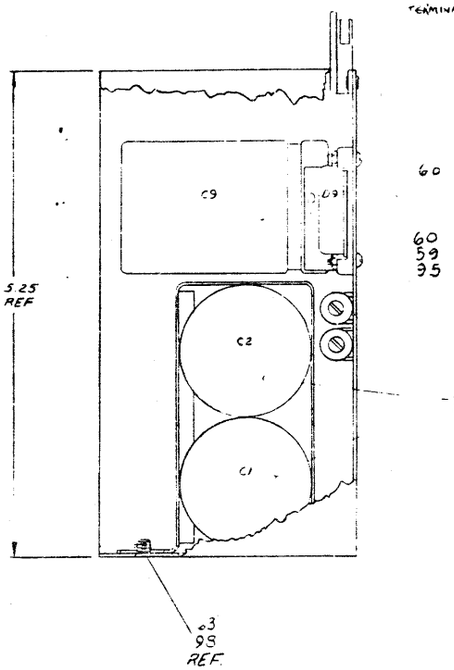
DIGITAL	TITLE	SECTION	SIZE	CODE	DOCUMENT NUMBER	REV
	+20 VOLT REGULATOR	A OF A	K	PL	H754-0-DBP	W

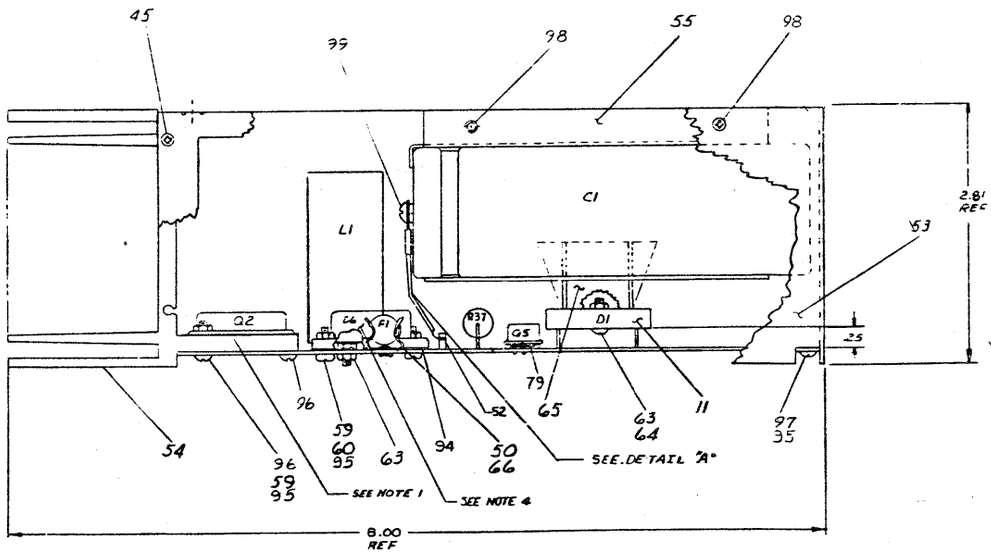
LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
79	79		9007200-00	TRANSIPADS #10134	2	XQ5,XR21
80	80		1100100-00	PIV= 25 IO=100 MA -50NS	1	D2
81	81		1510705-00	XA 05 NPN 500MW SI 60 50 P	2	Q4,Q14
82	82	BLANK			0	
83	83		1000016-00	100.0 MMF 100V 5%200PPM MICA	1	C13
84	84		1511349-00	TIP 640 (OR MJ3000) NPN DARLINGT	1	Q9
85	85		1510712-00	MJ 900 PNP 90WC SI 60 1K	1	Q10
86	86		1002781-00	100 MFD 25V +75-10% AL EL	1	C16
87	87		1310071-00	1.0 K 1.0 % NTC THERM	1	R38
88	88		1309108-00	.10 10.0 W 1.0 % WW	1	R37
89	89		1300271-00	220.0 .25 W 5.0 % CF	1	R39
90	90		9107256-11	TUBING,TEFLON .027ID	A/R	
91	91		1312496-01	27.0 .25 W 5.0 % FUSE	1	R13
92	92		1509605-01	DEC4920-1 PNP 30WC SI 80 20	1	Q1
93	93		1010274-00	.22 MFD 50V +80-20% Z5U CER	1	C7
94	94		9009853-00	INSULATOR, MICA, TO-3	1	
95	95		9006632-00	WASHER,LOCK INTERNAL STEEL	12	
96	96		9008033-01	SCREW,MACH PAN PHIL 4-	6	
97	97		9008301-01	SCREW,MACH PAN PHIL 4-	2	
98	98		9008404-02	SCREW,MACH FLAT PHIL 6-	2	
99	99		9009667-00	SCREW,SEMS BINDR SLOT 10-	6	

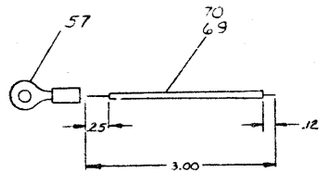
100 NOTE: MODULE ECO HISTORY FOR REF IS B-MH-H754-0-6
101 NOTE: X-Y COORDINATE HOLE LOCATION FOR REF IS K-CO-H754-0-4

D	I	G	I	T	A	L	TITLE	SECTION	SIZE	CODE	DOCUMENT NUMBER	REV
							+20 VOLT REGULATOR	A OF A	K	PL	H754-0-DBP	W









DETAIL "A"
SCALE : NONE
RED WIRE GOES TO POSITIVE TERMINAL
BLK WIRE GOES TO NEGATIVE TERMINAL

DELETED COMPONENTS	
RESISTORS	R9
DIODES	D10, D12

NOTES:
5. APPLY 3 INCH LBS OF TORQUE TO ALL HARDWARE USED TO SECURE TRANSISTORS TO CIRCUIT BOARD. APPLY 6 INCH LBS OF TORQUE TO ALL 10 HARDWARE
6. USE ITEM 99 (QTY 2) FOR TERMINATING TO C9, C1, C2

NOTES:
1. APPLY (ITEM # 71 (COMPOUND) ON BOTH SIDES OF ITEM #72 (INSULATOR WASHER) FOR Q2, Q3, D10. ALSO APPLY BETWEEN ITEM # 11 (DIODE BRIDGE D11 AND ITEM # 45 (HEAT SINK, BRIDGE RECT)
2. UNLESS OTHERWISE INDICATED: RESISTORS ARE 1/4 W, 5%. CAPACITORS ARE 100V, 5%.
3. ADD INSULATION (9107256-11) TO BOTH LEADS OF R38 TO AVOID SHORT TO ETCH.
4. APPLY ITEM #71 (COMPOUND) ON BOTH SIDES OF ITEM #94 (MICA WASHER) FOR DG

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO
		WASHER #4 INT TOOTH	9006434	
1		WASHER MICA	9009333	74
1	C7	CAP .22 uF 50V	1510274	73
1	Q1	TRANSISTOR 2N4920-1	1503695-1	72
1	D13	RECTIFIER 5% FUSIBLE	3124962	71
AR		INSULATION	9107256-11	90
1	R39	RES 22Ω 1/4W 5%	1300271	89
1	R37	RES .1 OHM 5%	1303081	88
1	R38	RES, UK 15 THERM.STOR	13.0071	87
1	C16	CAP 1000uF 25V	1022781	86
1	D10	TRANSISTOR MJ900	15.3792	85
1	Q9	TRANSISTOR MJ3026	1511388	84
1	C13	CAP 130 PF 5PV ±5% DM	1020216	83
				82
2	Q4, Q14	TRANSISTOR MPS A05	1510725	81
1	D2	DIODE D603	1100100	80
2	(INSIDE 3PL REL)	TRANSIPAD	9003238	79
1	R31	RES .15Ω 2W 10%	13 147	78
2	C18, C17	CAP, 1000 MF, 100V, +75% DM	1198212	77
1	R22	RES 383Ω 1/8W 1%	1305125	76
2	R35, R8	RES 1.78K 1/8W 1%	1302612	75
1	R11	RES 15K 1/8W 5%	1300496	74
1	R20	RES 470Ω 1/4W 5%	1300316	73
				72
3		WASHER INSULATOR	9006721	72
AR		COMPOUND, THERMAL	9006268	71
AR		WIRE, #18AWG, STRD, TPE INS (BLK)	9107300-00	70
AR		WIRE #18AWG STRD, TPE INS (RED)	9107300-02	69
1	J1	MATE-N-LOK CONN 8 PIN	1203482	68
8		P.N. SOCKET, MATE-N-LOCK	1203458	67
4		RIVET 3/16 Al	3008139	66
1		HEAT SINK BRIDGE RECTIFIER	1210907	65
1		SCR PHL PAN HD 6-32 X 1	3006024-1	64
5		KEPS NUT 6-32 SS	3008185	63
2		SCR PHL FLAT HD 6-32 X 5/16	3006021-2	62
		SCR PHL PAN HD 6-32 X 3/8	3006011-1	61
10		KEPS NUT 4-40	3008157	60
2		SCR PHL PAN HD 4-40 X 1/4	3006013-1	59
6		TERMINAL, SOLDERLESS, #10	3007330	58
				57
1		1.5 CAP 3PMT	C-1A.5309158 0-2	55
1		HEAT SINK REGULATOR	D-PS-1210737 0-3	54
1		BRIDGE REC	D-1A 5309156-4-0	53
4		SPLIT LOC	3008135	52
1	Q8	TRANSISTOR 2N6029	15-10877	51
2		FUSE CLIP	9007203	50
1	F1	FUSE 1/4 AMP	1213237-002	49
1	L1	REACTOR - 7.5 MHY	18 10849	48
1	E1	INTEGRATED CIRCUIT 723	15-10415	47
6	Q7, Q9, Q11, Q12, Q13	TRANSISTOR MJE 455	15 10708	46
4		SCR PHL FLAT HD 4-40 SELF TAPPING	3009162-02	45
1	Q5	TRANSISTOR 2N2904	15 02209	44
1	Q2	TRANSISTOR 2N6036	15-10783	43
1	Q3	TRANSISTOR 2N6491	1513704	42
2	R17, R21	RES VARIABLE 25K ±20% POT	13 10852	41
2	R23, R36	RES 5.1Ω 5%	13 09422	40
1	R18	RES 237 1/8W 1%	1304857	39
				38
2	R14, R5	RES 8.25 27	13.01522	37
1	R10	RES 150 Ω 5%	13 02258	36
REF		ASSY/DRILLING HOLE LAYOUT	D-AH-H754-0-5	35
2	R7, R40	RES 2K 1/4W 5%	1302368	34
2	R6, R9	RES 12K Ω 5%	13 00488	33
6	R15, R29, R30, R24, R35, R4	RES 100 Ω 5%	13 00229	32
1	R12	RES 68 Ω, 1/4W 5% FUSIBLE	1312496-02	31
				30
1	R27	RES 10K Ω 1/8W 1%	1303312	29
1	R32	RES 3.92K 1/8W 1%	13-00444	28
1	R13	RES 7.87K 1/8W 1%	13-05184	27
1	R25	RES 10K Ω 5%	13 02465	26
1	C11	CAP 2.2 uF 35V 10% S. TANT	10 02431	25
1	R6	RES 50 Ω .03 /C	13-0876-1	24
1	R2	RES 1.5K 5W 5%	13 01857	23
1	R34	RES 47 2W 5%	13 05258	22
1	R28	RES 1.5K Ω 5%	13-00381	21
2	R1, R2	RES 3.3K 1% 1/8	13 02827	20
1	R26	RES 10Ω, 1/4W, 5%	1301317	19
2	D11, D8	DIODE IN5624	1110420	18
				17
1	D16	DIODE 752A ZENER	1102809	16
1	D9	DIODE MDR 848 P-2	11 09483	15
1	D1	DIODE IN3709, 24 V	11 10858	14
1	D5	DIODE, 20 AMP FAST REC	11 10215	13
1	D3	DIODE IN4746, ZENER, 18V	11 02648	12
1	D4	DIODE RSS 3614	11 10114	11
1	D6	DIODE D984	11 10114	10
1	C15	CAP .1 UF 100V 20% DISC	1000030	9
1	C9	CAP 2.2K UF 30V 6% AL EL	10-11858	8
4	C5, C6, C12,	CAP .01UF 50V 20% DISC	10 01810-01	7
1	J6	CAP 2700PF 100V 5% DM	10 01837	6
1	C4	CAP 56PF 100V 5% DM	10 00112	5
1	F1	LAMP .6V 40 MA	12-11239	4
1	C12	CAP .05uF 25V DISC	10 01274	3
1	C1, C2	CAP 52,000uF 50V 5% AL EL	10-11863	2
1		ETCHED CIRCUIT BOARD	50 0531	1
		MODULE ECO HISTORY	B-MH-H754-0-6	DOC
		E-T COORDINATE HOLE LOCATION	M-CO-H754-0-4	DOC

PARTS LIST

ETCH BOARD REV J J

0664 IN3606

CHANGE NO. 0664 DATE 9-10-74
DRAWN DATE
CHKD DATE
PROJ ENG DATE
MFG ENG DATE
NEXT HIGHER ASSY
SCALE
SHEET 1 OF 1

Chatham EQUIPMENT CORPORATION

TITLE
+ 20 VOLT REGULATOR

SIZE B CODE IDENT NO. 80009 NUMBER J H754-0-0 REV A
DRAWING

CAUTION: OFF SHEET PARTS LIST EXISTS
REFER TO K-PL-H754-0-DBP

DEC NO.	ECA NO.	DEC NO.	ECA NO.

SEMICONDUCTOR CONVERSION CHART

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

IC PIN LOCATIONS

ITEM NO	AWG	FROM PT	TO PT

JUMPER LIST

REVISIONS	DATE	BY	APPROVED
A ADD J1, H754-0-0010	9-12-74	A. BARON	
B ADD H754-0-0011	9-17-74	A. BARON	
C ADD H754-0-0012	9-17-74	A. BARON	
D ADD H754-0-0013	9-17-74	A. BARON	
E ADD H754-0-0014	9-18-74	A. BARON	
F ADD H754-0-0015	9-18-74	A. BARON	
G ADD H754-0-0016	9-18-74	A. BARON	
H ADD H754-0-0017	9-19-74	A. BARON	
J ADD H754-0-0018	9-19-74	A. BARON	
K ADD H754-0-0019	9-19-74	A. BARON	
L ADD H754-0-0020	9-20-74	A. BARON	
M ADD H754-0-0021	9-20-74	A. BARON	
N ADD H754-0-0022	9-23-74	A. BARON	
P ADD H754-0-0023	9-23-74	A. BARON	
Q ADD H754-0-0024	9-24-74	A. BARON	
R ADD H754-0-0025	9-24-74	A. BARON	
S ADD H754-0-0026	9-24-74	A. BARON	
T ADD H754-0-0027	9-25-74	A. BARON	
U ADD H754-0-0028	9-25-74	A. BARON	
V ADD H754-0-0029	9-25-74	A. BARON	
W ADD H754-0-0030	9-26-74	A. BARON	
X ADD H754-0-0031	9-26-74	A. BARON	
Y ADD H754-0-0032	9-26-74	A. BARON	
Z ADD H754-0-0033	9-27-74	A. BARON	
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BE ADD H754-0-0062	9-27-74	A. BARON	
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BG ADD H754-0-0064	9-27-74	A. BARON	
BH ADD H754-0-0065	9-27-74	A. BARON	
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BV ADD H754-0-0077	9-27-74	A. BARON	
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BZ ADD H754-0-0081	9-27-74	A. BARON	
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JD ADD H754-0-0229	9-27-74	A. BARON	
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LC ADD H754-0-0276	9-27-74	A. BARON	
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LL ADD H754-0-0284	9-27-74	A. BARON	
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LN ADD H754-0-0286	9-27-74	A. BARON	
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LR ADD H754-0-0289	9-27-74	A. BARON	
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LU ADD H754-0-0292	9-27-74	A. BARON	
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MA ADD H754-0-0298	9-27-74	A. BARON	
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ML ADD H754-0-0308	9-27-74	A. BARON	
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NH ADD H754-0-0329	9-27-74	A. BARON	
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NK ADD H754-0-0331	9-27-74	A. BARON	
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NM ADD H754-0-0333	9-27-74	A. BARON	
NN ADD H754-0-0334	9-27-74	A. BARON	
NP ADD H754-0-0335	9-27-74	A. BARON	
NQ ADD H754-0-0336	9-27-74	A. BARON	
NR ADD H754-0-0337	9-27-74	A. BARON	
NS ADD H754-0-0338	9-27-74	A. BARON	
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NV ADD H754-0-0341	9-27-74	A. BARON	
NW ADD H754-0-0342	9-27-74	A. BARON	
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NY ADD H754-0-0344	9-27-74	A. BARON	
NZ ADD H754-0-0345	9-27-74	A. BARON	
PA ADD H754-0-0346	9-27-74	A. BARON	
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PL ADD H754-0-0356	9-27-74	A. BARON	
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PN ADD H754-0-0358	9-27-74	A. BARON	
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PR ADD H754-0-0361	9-27-74	A. BARON	
PS ADD H754-0-0362	9-27-74	A. BARON	
PT ADD H754-0-0363	9-27-74	A. BARON	
PU ADD H754-0-0364	9-27-74	A. BARON	
PV ADD H754-0-0365	9-27-74	A. BARON	
PW ADD H754-0-0366	9-27-74	A. BARON	
PX ADD H754-0-0367	9-27-74	A. BARON	
PY ADD H754-0-0368	9-27-74	A. BARON	
PZ ADD H754-0-0369	9-27-74	A. BAR

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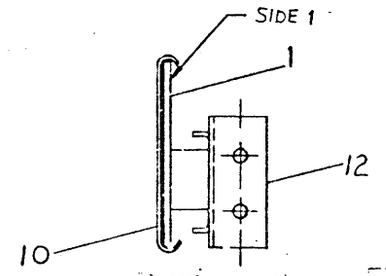
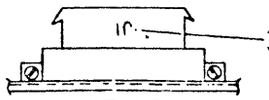
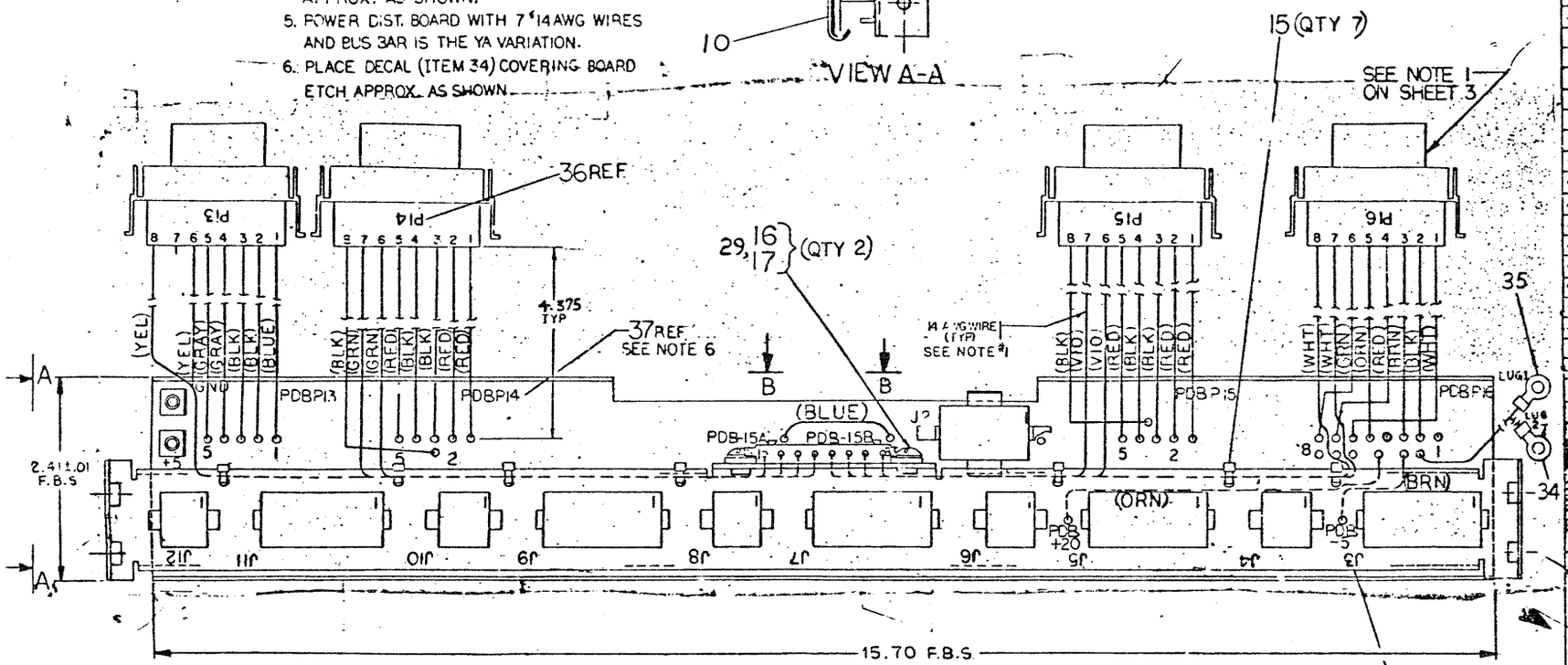
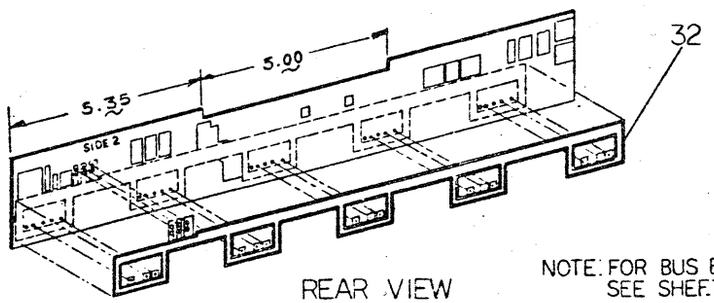
NOTES:

1. FOR HAND WIRING INFORMATION SEE WIRE TABLE ON SHEET 3.
2. MATE-N-LOK FIXTURES (ITEM 28) MUST BE USED DURING WAVE SOLDERING OF J2, J3 - J12
3. WIRE JUMPERS ON CIRCUIT BOARD ARE PART OF SIGNAL PATHS. THEY ARE NOT FOR OPTIONS
4. PLACE DECALS (ITEM 30, 31 & 36) APPROX. AS SHOWN.
5. POWER DIST. BOARD WITH 7 #14 AWG WIRES AND BUS BAR IS THE YA VARIATION.
6. PLACE DECAL (ITEM 34) COVERING BOARD ETCH APPROX. AS SHOWN









REAR VIEW
SCALE: NONE

NOTE: FOR BUS BAR CONNECTIONS SEE SHEET 3 OF 3

ITEM NO.	QTY	QTY	REF. DESIGNATION	DESCRIPTION	PART NO.
1	1			ETCHED CIRCUIT BOARD	D-LA-5010363-0-0
2	5	5	J4, J6, J9, J10, J12	CONN, 6 PIN MATE-N-LOK (FEMALE)	1209350-06
3	1	1	J1	CONN, 8 PIN MATE-N-LOK (FEMALE)	1209340-00
4	5	5	J3, J5, J7, J9, J11	CONN, 15 PIN MATE-N-LOK (FEMALE)	1209350-15
5	1	1	J2	CONN, 12 PIN MATE-N-LOK (FEMALE)	1209350-12
6	4	4	P13 THRU P16	CONN, 8 PIN MATE-N-LOK (MALE)	1209340-01
7	28	24	(P13 THRU P16)	PIN, MATE-N-LOK	1209378-01
8	8	8	(J1)	PIN, MATE-N-LOK	1209379-01
9	117	117		PIN, MATE-N-LOK PC MOUNT	1209456
10	1	1		SHIELD	C-MD-7412192-0-0
~~11~~	~~2~~	~~2~~		~~GROUND LUG~~	~~9008150~~
12	1	1		BRACKET, CONN MTG	D-MD-7411704-0-0
13	2	2		EYELET	9009000
14	2	2		FASTON TAB	9008219-0
15	7	7		CABLE TIE .12 WIDE	9007880
16	2	2		SCREW, PHHD TRUSS 6-32 x .3125	9006021-03
17	2	2		WASHER, INT TOOTH #6	9006633
18	A/R	A/R		WIRE #14 AWG STRD (ORN)	9107370-33
19	A/R	A/R		WIRE #14 AWG STRD (BRN)	9107370-11
20	A/R	A/R		WIRE #14 AWG STRD (RED)	9107370-22
21	A/R	A/R		WIRE #14 AWG STRD (GRY)	9107370-88
22	A/R	A/R		WIRE #14 AWG STRD (BLK)	9107370-00
23	A/R	A/R		WIRE #14 AWG STRD (BLU)	9107370-66
24	A/R	A/R		WIRE #14 AWG STRD (YEL)	9107370-44
25	A/R	A/R		WIRE #14 AWG STRD (GRN)	9107370-55
26	A/R	A/R		WIRE #14 AWG STRD (VIO)	9107370-77
27	A/R	A/R		WIRE #14 AWG STRD (WHT)	9107370-99
28	REF	REF		MATE-N-LOK FIXTURES	C-IA-9305937-0-0
29	2	2		FLAT WASHER #6	9006636
30	A/R	A/R	J3 THRU J12	DECAL, PWR CONN.	A-DC-7409873-01
31	A/R	A/R	J1	DECAL, PWR CONN.	A-DC-7409873-02
32	1	-		BAR, BUS, BATTERY BACKUP	1213497
33	A/R	A/R		WIRE #14 AWG GRN/YEL	9107777-54
34	1	1		TERMINAL, RING BLU	9007928
35	1	1		TERMINAL, RING YEL	9007926-01
36	A/R	A/R	P13 THRU P16	DECAL, PWR CONN.	A-DC-7409872-2
37	A/R	A/R	P13 THRU P16	DECAL, PWR BOARD	A-DC-7417991-0-0
	5410864-YA	5410864 -			

PARTS LIST

FIRST USED ON OPTION MODEL: BAII-K

ETCH BOARD REV. D

IC TYPE	GND	+5V

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

IC PIN LOCATIONS

REV.	REVISIONS	CHNG. NO.	DATE	APPROVED
D	ORIGINATED	5410864-1	3 DEC 77	M. CARAFIELLO

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

SEMICONDUCTOR CONVERSION CHART

DRN. P. Beasley 6/14/74
CHK. [illegible] 7/1
ENG. [illegible] 7/2/74
PROJ. [illegible] 7/3/74
PROD. [illegible] 7/5/74
NEXT HIGHER ASSY: D-UA-BAII-K-0
SCALE: NONE
SHEET 1 OF 3

digital

TITLE: POWER DISTRIBUTION BOARD

SIZE D | CODE CS | NUMBER 5410864-0-1 | REV. L
DIST.

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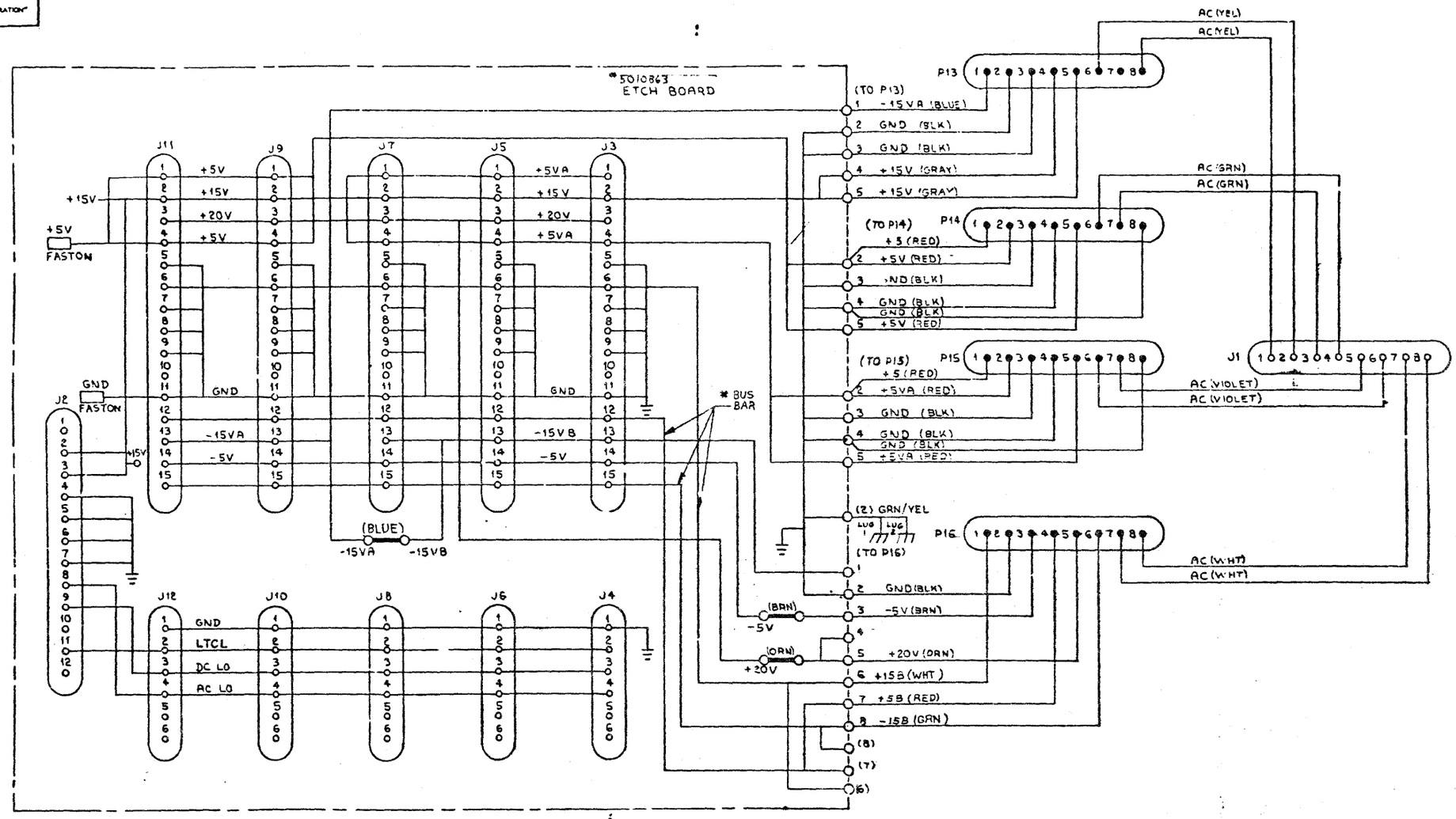

* BUS BAR USED IN THE YA VARIATION ONLY

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
PWR DIST BOARD	D	CS	5410864-0-1	L
SCALE NONE	SHEET 2 OF 3	DIST.		

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L 1-0-5410864 DCS 2

WIRE TABLE

ITEM NO	DESCRIPTION AWG	COLOR	FROM CONNECTION	FROM WITH	TO CONNECTION	TO WITH	LENGTH	SIGNAL NAME
24	14	YEL	J1-1	8	P13-8	7	12.5"	AC/H745
24	↑	YEL	J1-2	↑	P13-6	↑	12.5"	AC/H745
25		GRN	J1-3		P14-7		11"	AC/H744-1
25		GRN	J1-4		P14-6		11"	AC/H744-1
26		VIO	J1-5		P15-7		8.75"	AC/H744-2
26		VIO	J1-6		P15-6		8.75"	AC/H744-2
27		WHT	J1-7	↓	P16-8		11.25"	AC/H754
27		WHT	J1-8	8	P16-7		11.25"	AC/H754
23		BLU	PDBP13-1	SOLDER	P13-1		5"	-15V
22		BLK	PDBP13-2	↑	P13-2		↑	GND
22		BLK	PDBP13-3		P13-3			GND
21		GRY	PDBP13-4		P13-4			+15V
21		GRY	PDBP13-5		P13-5			+15V
20		RED	PDBP14-2		P14-2			+5V
22		BLK	PDBP14-3		P14-3			GND
22		BLK	PDBP14-4		P14-4			GND
20		RED	PDBP14-5		P14-5			+5V
20		RED	PDBP15-2		P15-2			+5V
22		BLK	PDBP15-3		P15-3			GND
22		BLK	PDBP15-4		P15-4			GND
20		RED	PDBP15-5		P15-5			+5V
22		BLK	PDBP16-2		P16-2			GND
19		BRN	PDBP16-3		P16-3			-5V
18		ORN	PDBP16-5		P16-5	7	5"	+20V
23		BLU	PDP-15A		PDB-15B	SOLDER	1.75	-15V
18		ORN	PDBP16-5	↓	PDB + 20V	↑	5"	+20V
19		BRN	PDBP16-3	SOLDER	PDB - 5V	↓	2"	-5V
33		GRN/YEL	LUG 1	35	PDBP16-2	SOLDER	11"	SAFETY GND
33					LUG 2	34	15"	SAFETY GND
20		RED	PDBP16-7	SOLDER	P16-4	7	5.5"	+5B
20		RED	PDBP15-1	↑	P15-1	↑	5"	+5V
20		RED	PDBP14-1		P14-1		5"	+5V
22		BLK	PDBP15-4		P15-8		5.5"	GND
22		BLK	PDBP14-4		P14-8		↑	GND
27	↓	WHT	PDBP16-6	↓	P16-1	↓	↓	+15B
25	14	GRN	PDBP16-8	SOLDER	P16-6	7	5.5"	-15B

YA VARIATION ONLY.

SEE NOTE 1

BUS BAR CONNECTIONS FOR YA VARIATION

LEVEL A	PDBP16-6 J11,J9,J7,J5,J3 ALL PIN #6	+15V.B
LEVEL B	PDBP16-7 J11,J9,J7,J5,J3 ALL PIN #12	+5V
LEVEL C	PDBP16-8 J11,J9,J7,J5,J3 ALL PIN #15	-15V.B

NOTES:

1. CS REV. K AND EARLIER PWR DISTRIBUTION BOARDS HAD THE GREEN AND WHITE WIRES REVERSED IN COLOR ONLY. THE POINT-TO-POINT CONNECTIONS REMAIN THE SAME.

REVISIONS

CHK	CHANGE NO	REV

TITLE: PWR DIST BOARD
SIZE: D | CODE: CS | NUMBER: 5410864-0-1 | REV: L
SCALE: NONE | SHEET 3 OF 3 | DIST

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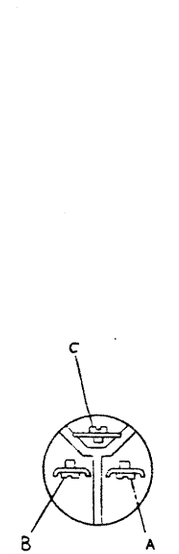
LEGEND

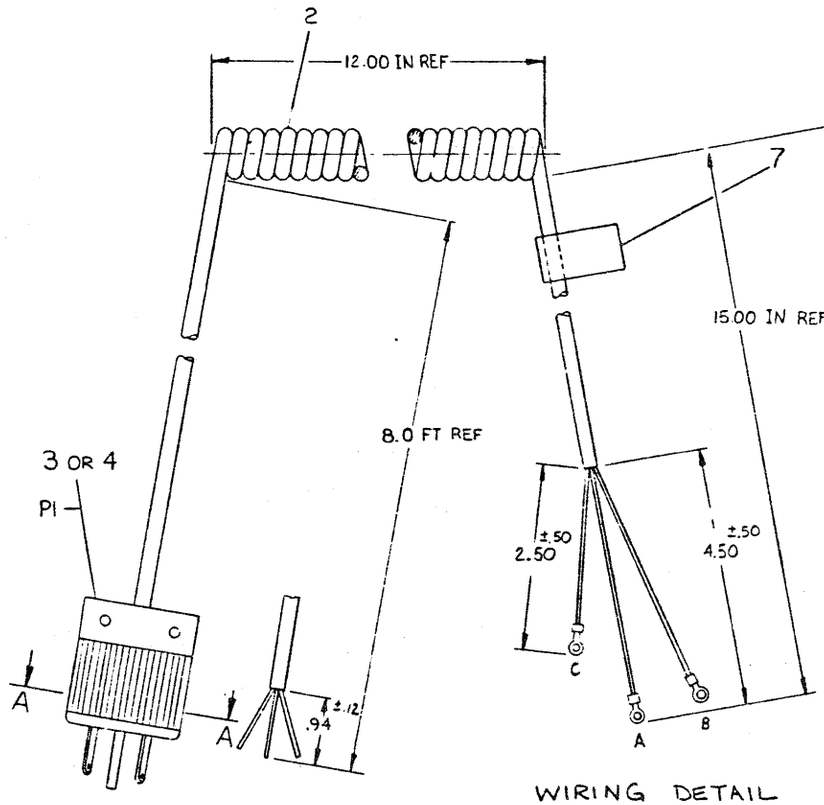
NUMBER	VARIATION
7012500-00	120V
7012500-01	240V
7012500-02	120V
7012500-03	220 - 240V

WIRE TABLE (7012500)

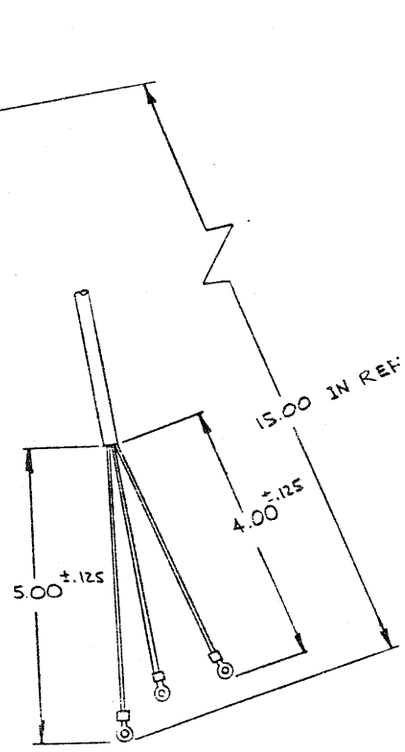
ITEM NO.	DESCRIPTION AWG	COLOR	FROM CONNECTION	WITH	TO CONNECTION	WITH	REMARKS
2	14	BRN	P1-B	—	B	6	AC LINE
2	14	LT BLU	P1-A	—	A	6	AC NEUTRAL
2	14	GRN/YEL	P1-C	—	C	6	AC SAFETY GND



SECTION A-A
WIRING SIDE



WIRING DETAIL
VAR. 00, 01



WIRING DETAIL
VAR. 02, 03

CAUTION: OFF SHEET PARTS LIST EXIST
SEE K-PL-7012500-0-DBP

1	1	LABLE, I.D.	3616073-00	7
3	3	TERMINAL RING TONGUE	9007923	6
~~2~~	~~2~~	~~TERMINAL, QUICK CONNECT~~	~~9007917-0~~	~~5~~
1	-	PLUG, 240 V	9008853	4
-	1	PLUG, 120 V	9003938	3
1	1	POWER CORD	1700063-0	2
~~1~~	~~1~~	~~POWER CORD~~	~~1700065-1~~	~~1~~
7012500-1	7012500-0	DESCRIPTION	DWG./PART NO.	ITEM NO.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

QUANTITY & VARIATION	ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)	SURFACE QUALITY IN MICROINCHES	NOMINAL DIMENSION RANGE INCHES: OVER 0 TO .2	OVER .2 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
		MACHINED		±.004	±.008	±.012	±.016	±.024	±.06
		PREFERRED		±.012	±.016	±.024	±.06	±.125	±.1

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL SEE PARTS LIST

FINISH —

DRN. J. Bradley 2-7-76
CHK. [illegible] 2 FEB 76
ENG. [illegible]
PROJ. ENG. [illegible]
PROD'N [illegible]
NEXT HIGHER ASSY.
7009811-0-0
SCALE NONE
SHEET 1 OF 1

FIRST USED ON 3A.1-K

digital

TITLE
POWER CORD
120V 240V

SIZE D | CODE 1A | NUMBER 7012500-0-0 | REV. D | DIST

REVISIONS			
CHK	CHANGE NO.		REV.
[illegible]	[illegible]		A
[illegible]	[illegible]		B
[illegible]	[illegible]		C
[illegible]	[illegible]		D

R. MOLF
H. KENNEDY
7012500-TW001
E. CROCKER
7012500-TW002
K. KILCOYNE

SIZE D | CODE 1A | NUMBER 7012500-0-C | REV. D

TW

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+25 TO +45 VDC

R8 47Ø 2W

R13 1K 2W

TP3

C25 18 pf

R21 30K

R2Ø 1K

R18 1K

R19 30K

C6 18 pf

Q3 MPS AØ3

Q5 MPS AØ5

C5 .22uf 5ØV

T1

D15 D672

D16 D672

AC-2

AC-1

20V TO 33V RMS AC INPUT

R34 5.11K 1%

R33 5.11K 1%

C24 .22uf 5ØV

C2Ø 1.5uf 35V

TP1

R32 18.2K 1%

R31 2.61K 1%

TP2

R33 9.09K 1%

R29 3.48K 1%

R26 5.62K 1%

TP5

R27 4.99K 1%

R25 3.16K 1%

W3

W2

Q16 2N4250

Q13 2N4250

Q12 2N4250

Q11 2N4250

C21 33Ø pf

C18 33Ø pf

C17 33Ø pf

C16 33Ø pf

C22 .01uf 1ØØV

C23 .01uf 1ØØV

R28 1K 1%

C19 .01uf 1ØØV

RETURN

C8 2.2uf 35V

D14 5.1V

D13 5.1V

D22 D672

D8 D672

D9 D672

D6 D672

D7 D672

C7 .22uf 5ØV

D1Ø IN4744 15V

R48 75Ø

Q19 MPS AØ5

5 -1ØV TO -15V (TEST POINT)

R49 22Ø

(ENG OPTION SEE NOTE 1) R46 1/2W

Q15 2N5433

Q18 2N5433

R47 1ØK

R43 1ØK

3 AC LO 1

8 AC LO 2

4 LO GND

R44 75Ø

Q1Ø MPS AØ5

Q17 2N5433

Q14 2N5433

1 DC LO 2

2 DC LO 1

R45 1/2W (SEE NOTE 1 ENG. OPTION)

+25 TO +45VDC

TO 20V TO 33V RMS AC INPUT
AC-1 15
AC-2 14

C1 8400uf 50V

R15 3.3K 1W

D11

6 LINE CLK L

R22 390Ω 2W

D19 3.9V IN748A

C14 .22uF 5ØV

POWER FAIL CIRCUIT

NOTES
1. R45, R46, C4, C9 & C11 ARE NOT USED ON BASIC 5411086 BUT ARE RESERVED FOR PLANNED FUTURE MODULE VARIATIONS.
2. ** TOTAL +15V & +8V CURRENT NOT TO EXCEED 4.0 AMPERES.
3. W1 (TEST JUMPER) MAY BE TEMPORARILY REMOVED WHILE TROUBLE-SHOOTING TO DETERMINE IF LOSS OF 15V IS DUE TO CROWBAR CIRCUITRY. BUT MUST BE IN THE BOARD FOR NORMAL OPERATION.
4. YA VERSION DOES NOT CONTAIN +15VDC REG.

REVISIONS			
REV.	CHANGE NO.	CHK'R	
M	ML0008	CARTER	
		R. KENNEDY	
		G. Baron	
B	5411086 TW009		
		A. BARON	

DRN D POWERS	1-17-79	FIRST USED ON digital
CHK'D	2-13-79	
ENG.	3-6-79	TITLE POWER LINE MONITOR 15V REG
PROJ. ENG.	2-6-79	
PROD.	2-15-79	
NEXT HIGHER ASSY.		
B OD 5411086-0		SIZE D CODE CS NUMBER 5411086-0-1 REV N
SCALE NONE		
SHEET 1 OF 2		DIST

TW 1

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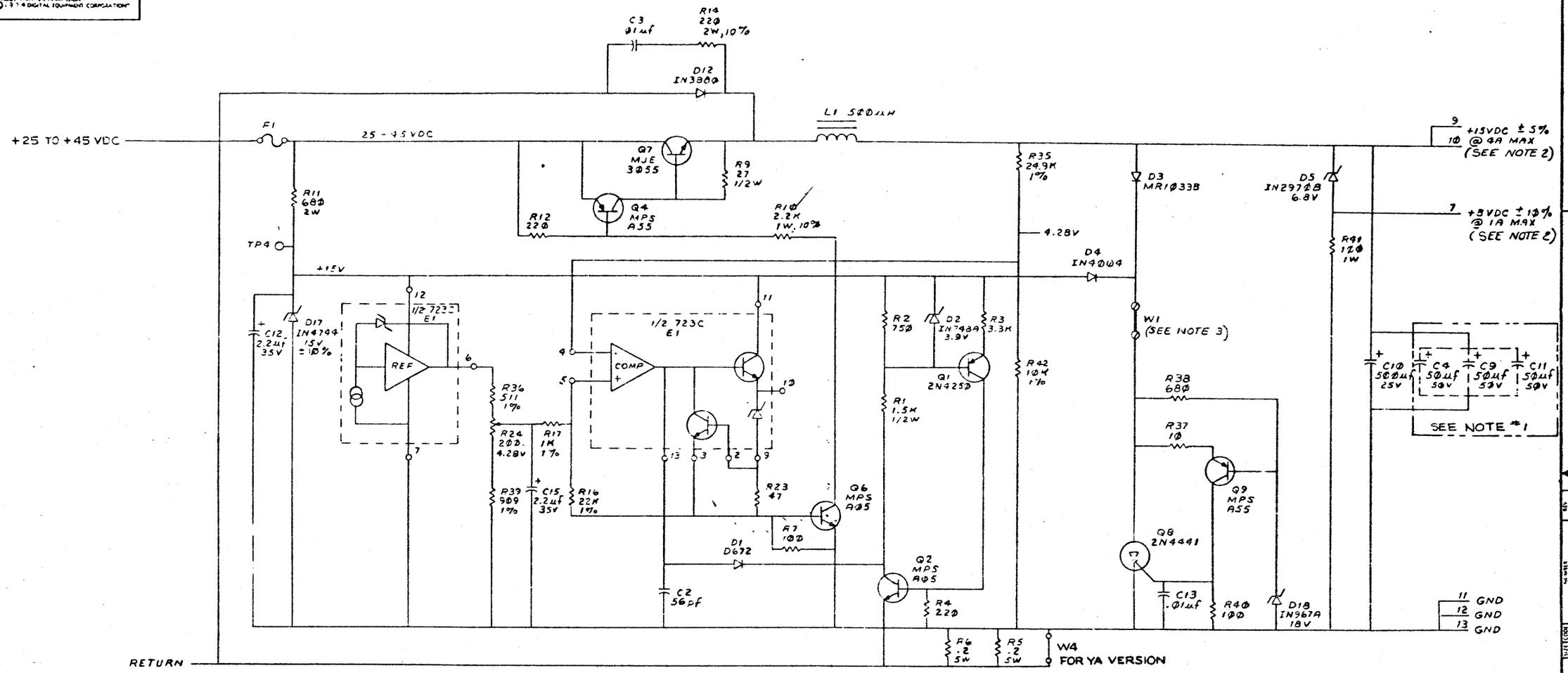

15V REGULATOR
(SEE NOTE #9)

REVISIONS		
CHK	CHANGE NO	REV

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

DCS5411086-0-1 N

TW

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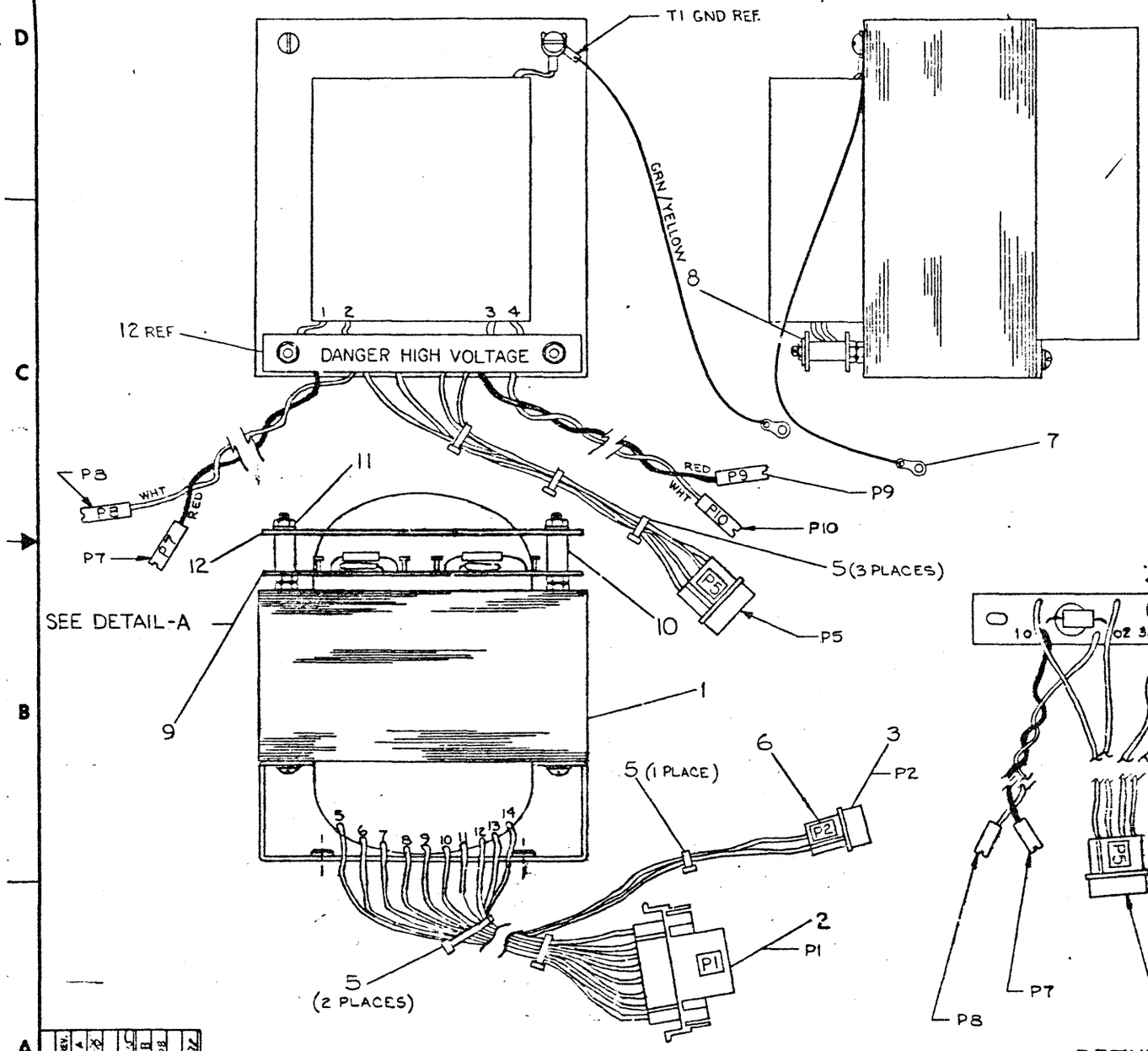
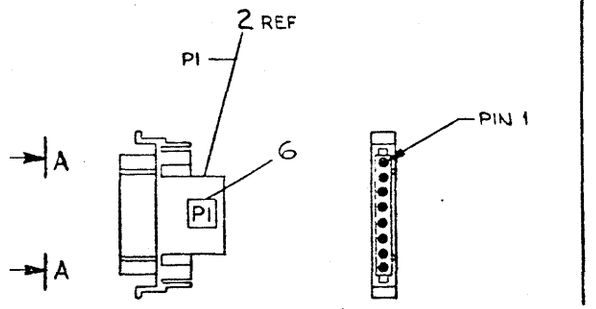
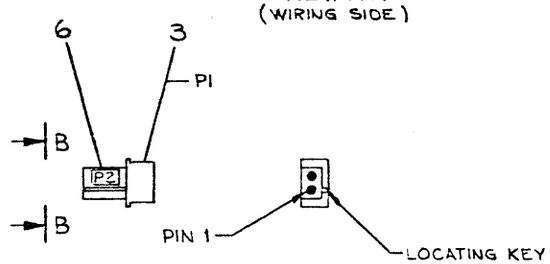
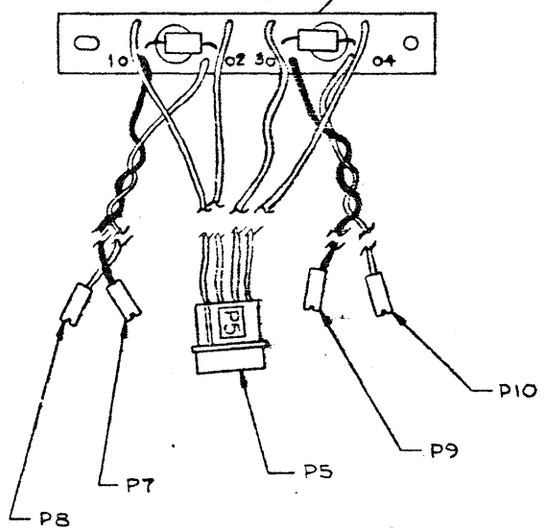




VIEW A-A
(WIRING SIDE)



VIEW B-B
(WIRING SIDE)



DETAIL-A
ITEM-9

REF	DESCRIPTION	DWG. PART NO.	ITEM NO.
	TRANSFORMER ASSY PROCEDURE	A-SP-7011486-0-0	13
1	COVER	C-IA-7414301-0-0	12
2	NUT, KEP #10-32	9006565	11
2	SPACER, 3/8 OD x 1/2 LG	9007831	10
1	CAP MOV BOARD ASSY	D-IA-7011751-0-0	9
2	WASHER, FLAT .937 X .218 ID	9006664	8
1	GROUND LUG	9008150	7
1	DECAL	A-DC-7409872-0-0	6
A/R	CABLE TIES 5 1/4 L x 1/8 W	9007880	5
10	PIN, MALE	1209378-1	4
1	CONN., 2 PIN	1210822-2	3
1	CONN., 8 PIN	1209340-01	2
1	TRANSFORMER	1612524	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES: OVER 0 TO 0.9	OVER 0.9 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
SURFACE QUALITY IN MICROINCHES	MEDIUM ☐	±.006	±.008	±.012	±.018	±.026	±.04
	PREFERRED ☐	±.012	±.016	±.025	±.04	±.063	±0.1

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL: SEE PARTS LIST

FINISH

DRN. T. Quillen
CHK'D.
ENG.
PROJ. ENG. R.J.
PROD.

NEXT HIGHER ASSY.

D-DA-H782-0-2

SCALE 1/1

SHEET 1 OF 2

FIRST USED ON: H7S2

digital

TITLE: TRANSFORMER ASS'Y

SIZE D | CODE AD | NUMBER 7011486-0-0 | REV. B

DIST.

REVISIONS			
CHK	CHANGE NO.	REV.	
TB	7011486-00001	A	2-23-78 B. WOLF
JA	7011486-00002	B	4-21-78 R. KLINKUT

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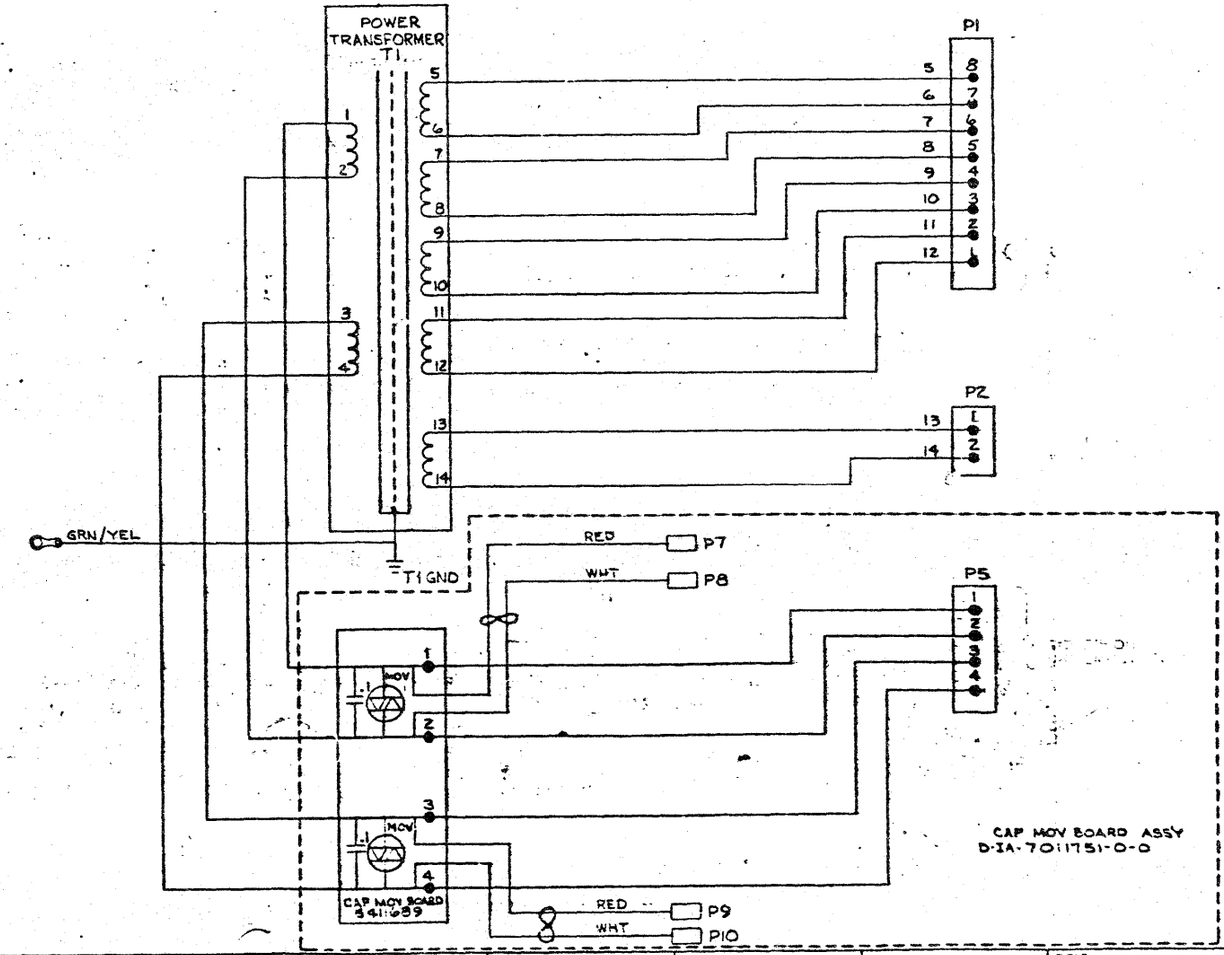
WIRE TABLE

ITEM NO.	DESCRIPTION AWG	DESCRIPTION COLOR	FROM CONNECTION	FROM WITH	TO CONNECTION	TO WITH	WIRE LENGTH
1	14	BLK	T1-1	—	CAP MOV BD-1	SOLDER	1.5 IN
↑	↑	↑	T1-2	—	CAP MOV BD-2	SOLDER	2.0 IN
			T1-3	—	CAP MOV BD-3	SOLDER	2.0 IN
			T1-4	—	CAP MOV BD-4	SOLDER	1.5 IN
			T1-5	—	P1-8	ITEM 4	12.0 IN
			T1-6	—	P1-7	↑	↑
			T1-7	—	P1-6		
			T1-8	—	P1-5		
			T1-9	—	P1-4		
			T1-10	—	P1-3		
			T1-11	—	P1-2	↓	
			T1-12	—	P1-1	ITEM 4	
↓	↓	↓	T1-13	—	P2-1	ITEM 4	↓
1	14	BLK	T1-14	—	P2-2	ITEM 4	12.0 IN
1	14	GRN/YEL	T1-GND	—	GND LUG (ITEM 7)	SOLDER	16.0 IN



REVISIONS		
CHK	CHANGE NO	REV

TITLE	SIZE	CODE	NUMBER	REV.
TRANSFORMER ASSY	D	AD	7011486-0-0	B
SCALE —	SHEET 2 OF 2	DIST.		

D AD 7011486-0-0 B

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FIELD MAINTENANCE PRINT SET

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TABLE OF CONTENTS

B-TC-H7441-Ø-1	H7441 UNIT ASSY (FIELD MAINT. PR. SET)
D-UA-H7441-Ø-Ø	H7441 UNIT ASSY
D-UA-5412441-0-0	REGULATOR +5V 32A
B-PL-5412441-0-0	REGULATOR +5V 32A (PL)
D-CS-5412441-0-1	REGULATOR +5V 32A (CS)

UNIT VARIATIONS COVERED BY THIS PRINT SET
H7441-Ø
/

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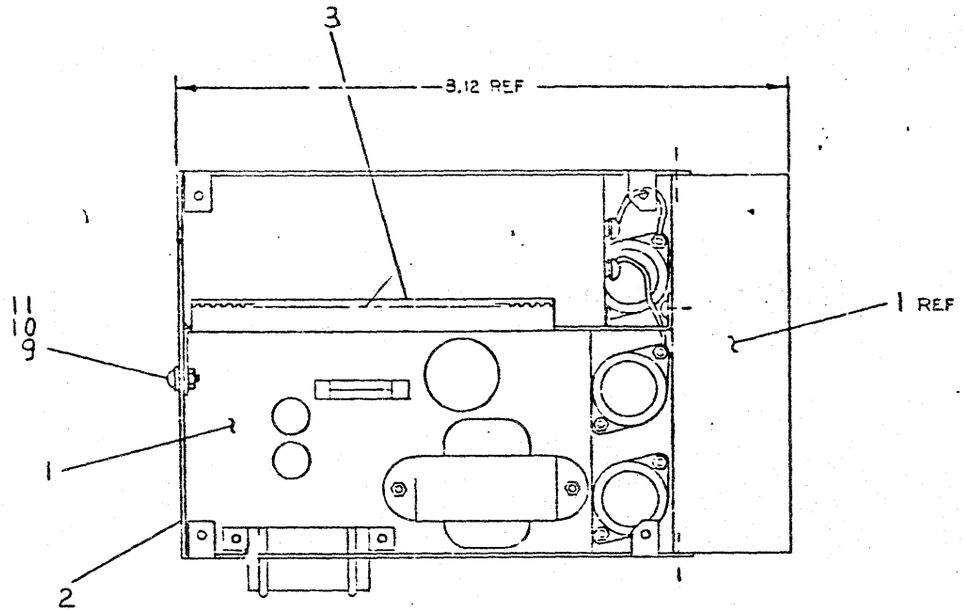


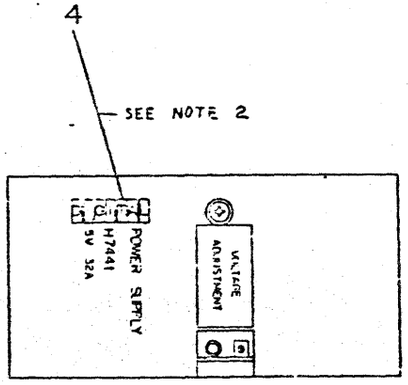
NOTES:

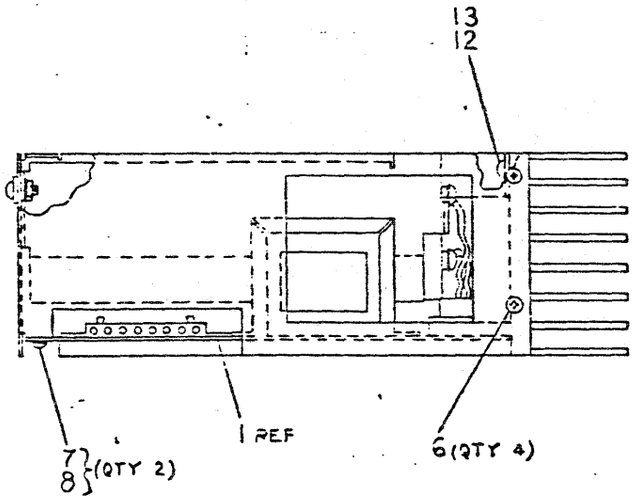
~~1. ATTACH (RED) WIRE FROM ITEM (5) TO POSITIVE (+) TERM OF CAPACITOR (7) AND ATTACH REMAINING (BLK) WIRE TO (-) TERMINAL OF CAPACITOR (8).~~

2. PEEL AND ATTACH ITEM 4 TO ITEM 2 AS SHOWN.

3. FOR FIELD SERVICE SPARES ORDER PACKAGING MATERIAL PER A-SP-3700537-0-0.

4. FOR INTERPLANT PACKAGING ORDER PACKAGING MATERIAL PER A-SP-3700074-0-0.





SEE NOTE 4	AR	PACKAGING INSTRUCTIONS	A-SP-3700074-0-0	15
SEE NOTE 3	NR	PACKAGING INSTRUCTIONS	A-SP-3700537-0-0	14
	1	WASHER, LOCK INT. TOOTH #6	9006633	13
	1	SCR, PHL PAN HD. #6-32X.38	9006022-01	12
	1	NUT, KEPS #6-32X.31	9006560	11
	1	WASHER, FLAT #6	9006659	10
	1	SCR, PHL PAN HD. #6-32X.31	9006021-01	9
	2	WASHER FLAT #4	9008172	8
	2	SCR, PHL. PAN HD #4-40X.25	9008301-01	7
	4	SCR, SELF TAPPING #4-40X.31	9009142-2	6
		~~CAPACITOR 2.2K, 50 VDC~~	~~9009143-00~~	~~5~~
	1	DECAL	A-DC-7417245-0	4
	1	BRACKET, CAPACITOR	D-IA-7417543-0-0	3
	1	BRACKET, REGULATOR	D-IA-5509756-09	2
	1	REGULATOR, +5V, 32 A	D-IA-5424X-0-0	1
		DESCRIPTION	DWG / PART NO.	ITEM NO

REVISIONS			
SYM	DWG/ECO NO.	REV.	
	H7441-CO001	A	
	H7441-CO003	B	
	H7441-CO004	C	
	H7441-CO005	D	30 NOV 80

A DAY
B BAUSHA

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

ANGLES ±30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSIONS ± TOLERANCES					
		OVER 0 TO 3	OVER 3 TO 12	OVER 12 TO 48	OVER 48 TO 120	OVER 120 TO 480	OVER 480 TO 960
SURFACE QUALITY IN MICROINCHES	MEDIUM ☐	±.005	±.015	±.015	±.030	±.060	±.090
	PREFERRED ☐	±.010	±.010	±.020	±.040	±.080	±.120

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL SEE PARTS LIST

FINISH

DRN
CHK'D
ENG.
PROJ. ENG.
PROD.
NEXT HIGHER ASSY.
SCALE NONE
SHEET 1 OF 1

FIRST USED ON 1134A

digital

TITLE H7441 UNIT ASSY

SIZE D | CODE UA | NUMBER H7441-0-M | REV. D

DST

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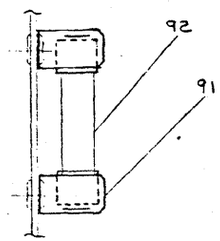
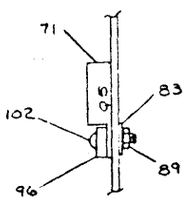
WIRE & BUS STRAP RUNS

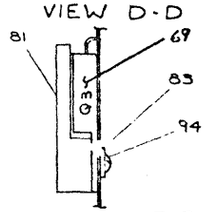
NO	FROM	TO	WIRE OR BUS LENGTH
①	FEEDTHRU AT F1	TERMINAL D1	#14 AWG 4" SEE NOTE 3
②	S1	FEEDTHRU SHOWN	#18 AWG 3"
③	S1	FEEDTHRU SHOWN	#18 AWG 2.5"
④	D12	FEEDTHRU SHOWN	DEC PT #12140-05 SEE NOTE 4
⑤	TERMINAL D1	D12	#14 AWG 5" SEE NOTE 5
⑥	TERMINAL D1	Q2	#14 AWG 2" SEE NOTE 6
⑦	Q2	Q1	DEC PT #12140-04 SEE NOTE 7
⑧	TERMINAL D1	FEEDTHRU SHOWN	#14 AWG 2.75" SEE NOTE 2

NOTES. 1. MOUNT WIRES PER IA DRAWING NO. IA 7013274. RED WIRE TO CASE Q2 AND POSITIVE TERMINAL C1 & BLACK WIRE TO CASE D12 AND NEGATIVE TERMINAL C1.
2. WIRE RUN ⑧ IS SOLDERED AT D1
3. WIRE RUN ① IS SOLDERED AT D1
4. STRAP ④ (ITEM #23) IS SOLDERED AT FEEDTHROUGH SHOWN AND MOUNTED UNDER RING LUG OF D12.
5. WIRE RUN ⑤ IS SOLDERED AT D1 AND CRIMPED TO RING LUG ITEM #87 OF D12
6. WIRE RUN ⑥ IS SOLDERED AT D1 AND CRIMPED TO RING LUG ITEM #87 OF Q2.
7. BUS STRAP ⑦ (ITEM #25) IS MOUNTED UNDER RING LUG OF Q2 AND ON CASE OF Q1. & TORQUE HARDWARE ON Q1, Q2, Q4 AND D12 TO 8 INCH-LBS. FROM NUT SIDE ONLY. TORQUE OTHER HARDWARE TO DEC STD. VALUES
9. APPLY THERMAL COMPOUND TO D1 (ITEM 19) ONLY.



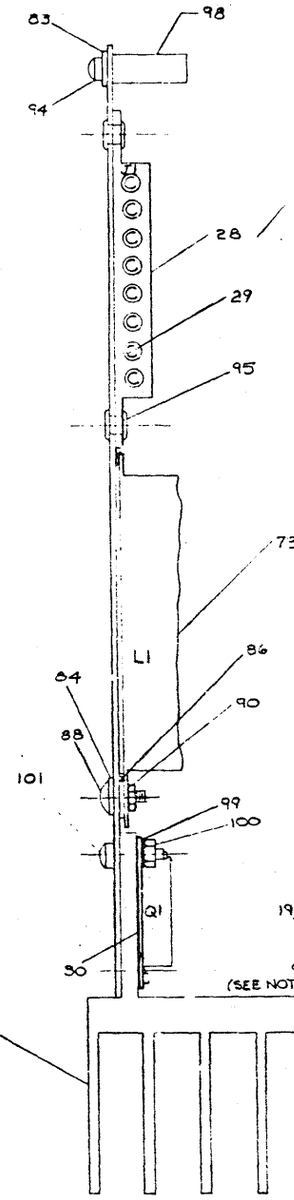
VIEW C-C

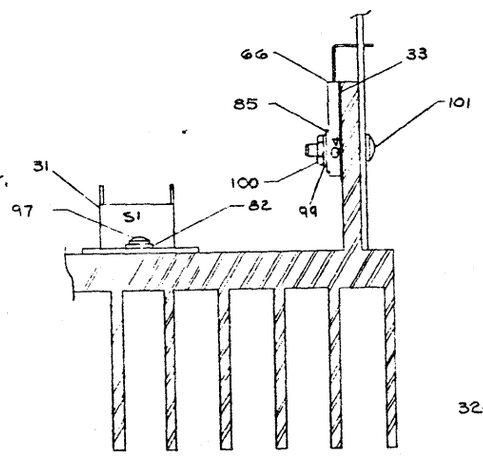




VIEW D-D

VIEW E-E

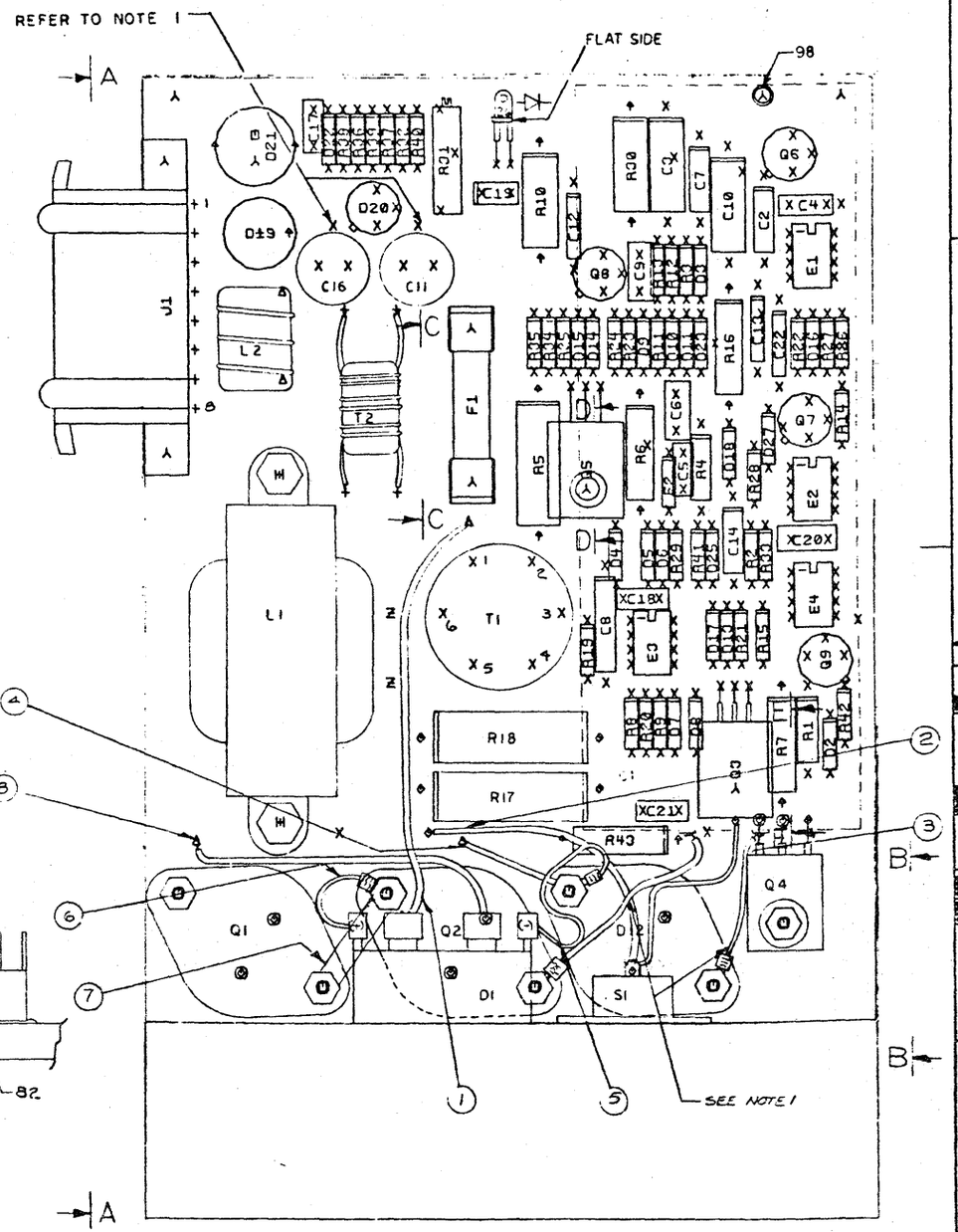




VIEW B-B

VIEW A-A

COMPONENT SIDE VIEW



NOTES:
1. INDICATED DRILL POINTS AT C11 AND C16 SHOULD NOT BE USED FOR DRILL ALIGNMENT DURING MANUFACTURE. THESE OVERSIZED PADS WILL NOT CENTER WITH DRILL BORING.

CHG	CHANGE NO	REV
	5412141-00007	H
	R.DAY 2-MAY-77	J
	5-JUN-77	
	R.GIST	
	5412441-SH0009	K
	G.CHRISTIANSEN	

ETCH REV. B
P.C. DESIGN DATA BASE REV. B-P4

SIGNATURES	DATE
DRN.	5-20-77
CHK'D.	23-MAY-77
ENG.	1-JUN-77
PROJ. ENG.	1-JUN-77
PROD	1-JUN-77

digital

TITLE +5V, 32 AMP REGULATOR

SCALE 2/1
SHT. 1 OF 3
NEXT HIGHER ASSY. B-DD-5412441-0

SIZE	CODE	NUMBER	REV
D	UA	5412441-0-0	K

SHO 1 MS#.

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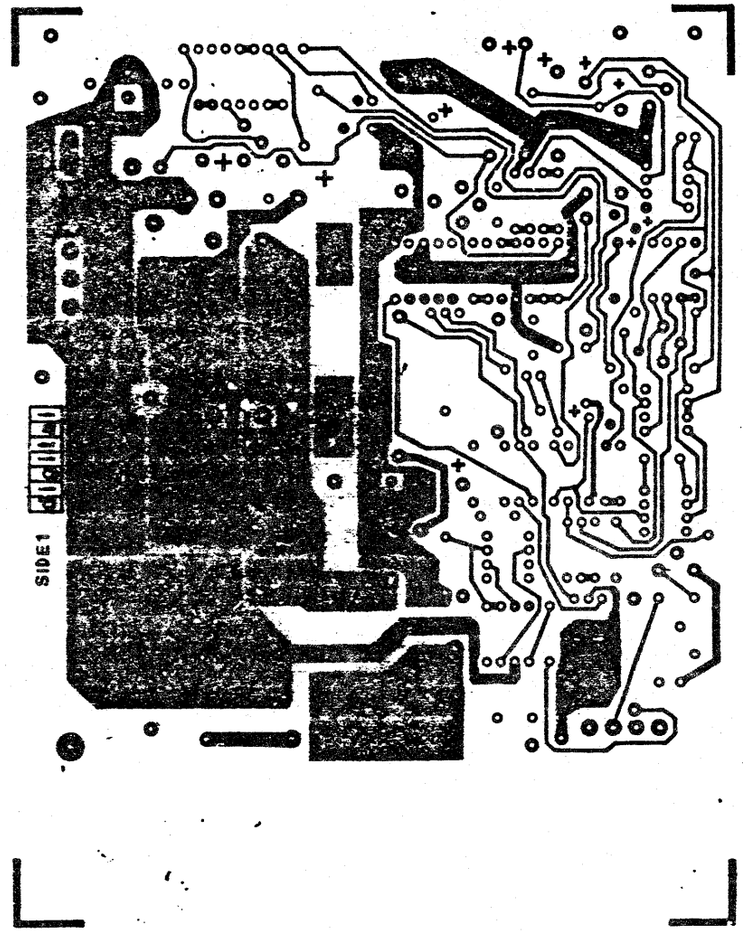

REVISIONS		
CHK	CHANGE NO.	REV

+5V, 32AMP, REGULATOR	D UA 5412441-Ø-Ø		K
SIZE		SHEET 2 OF 3	

D UA 5412441-Ø-Ø K

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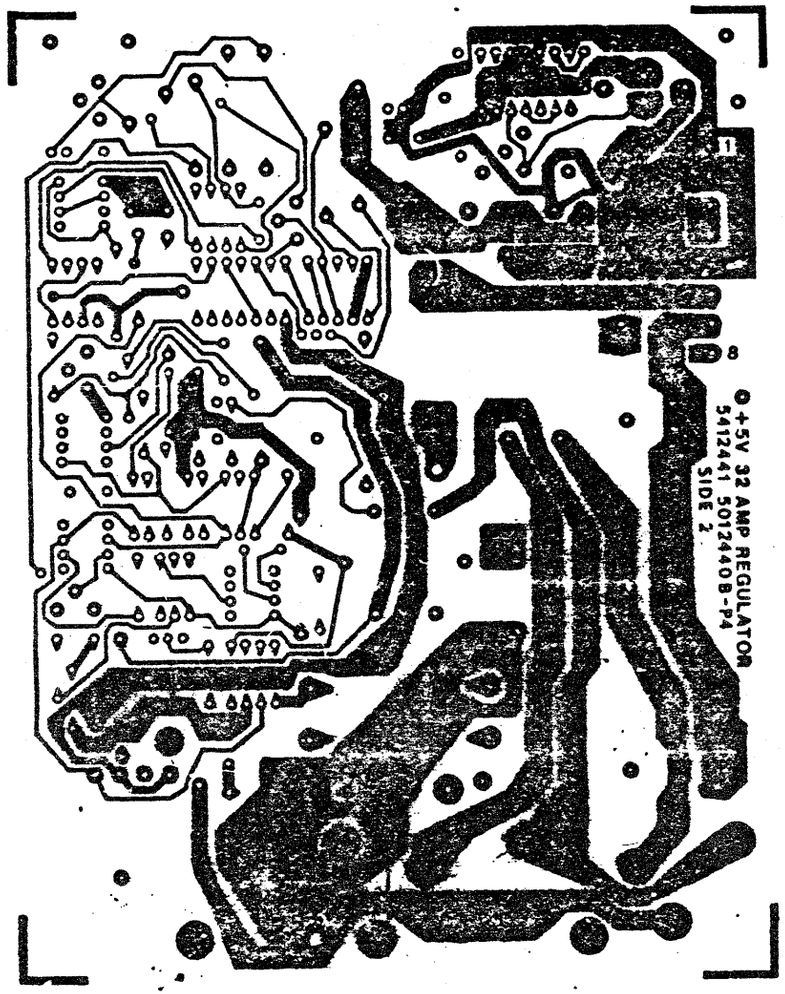

REVISIONS		
CHK	CHANGE NO.	REV

TITLE +5V, 32AMP REGULATOR		DUA 5412441-Ø-Ø	REV K
SCALE 2/1	SHEET 3 OF 3		

DUA 5412441-Ø-Ø K

AUTOMATED BY PRTLST.1D(11)

P A R T S L I S T

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
1	1	D-MD-5012440-0-0	5012440-00	5412441	1	
2	2		1000009-00	33.0 MMF 100V 5%200PPM MICA	1	C20
3	3		1000021-00	220.0 MMF 100V 5%200PPM MICA	1	C9
4	4		1001610-01	.01 MFD50/100V +80-20% DISC	4	C4,C5,C18,C21
5	5		1002627-00	2.2MFD 20V 10% S.TANT	2	C2,C7
6	6		1004813-00	10 MFD 20V 10% S.TANT	1	C8
7	7		1010279-00	.47 MFD 25V 20% CER	1	C19
8	8		1010646-00	.015 MFD 50V 2% M.POLYCARB	2	C3,C10
9	9		1010702-00	24,000 MFD 50V +75-10% AL EL	1	C1
10	10		1012607-00	560 MFD 20V+100-10% AL EL	1	C11
11	11		1012607-01	1200 MFD 6.3V+100-10% AL EL	1	C16
12	12		1009964-00	.68 MFD 35V 10% S.TANT	1	C12
13	13		1001776-00	1 MFD 35V 10% S.TANT	3	C13,C14,C22
14	14		1000024-00	470.0 MMF 100V 5%200PPM MICA	1	C6
15	15		1105508-00	VZ= 6.2 5% 400 MW 1N823	1	D18
16	16		1102808-00	*** THIS ITEM IS NOT USED ***	-	
17	17		1103341-00	PIV= 300 IO= 3.00A	1	D19
18	18		1105275-00	PIV= 60 IO=300 MA -15NS	15	D3-D6,D9-D11,D13-D17,D23,D25,D27
19	19		1110051-00	RECT. ASSY PIV= 200 IO=25.00A 16	1	D1
20	20		1110324-00	LED 1MCD@10MA PIV=3	1	D26
21	21		1110836-00	VZ= 12.0 5% 400 MW 1N759A	1	D2
22	22		1110968-00	SCR PIV= 100 IO= .80A 2N5062	1	D20
23	23		1112595-01	PIV= 200 IO= 1.00A AXIAL	2	D7,D8
24	24		1113496-00	RECT,ULTRA FAST PIV= 100 IO=30.0	1	D12
25	25		1214074-04	STRAP,THERMAL 2 HOLE	1	
26	26		1214074-05	STRAP,THERMAL LUG .815	1	
27	27		1209070-00	FUSE, SUB-MINI, 5.000A, 125V, R	1	F2
28	28		1209340-00	MATE-N-LOK 08SKT(1X08). . HSG	1	J1
29	29		1209456-01	MATE-N-LOK 01SKT 20-18AWG .0870D	8	
30	30		1213071-02	INSULATOR,RUBBER SILICONE SM	3	

REVISION HISTORY		
ENG	ECO NUMBER	REV
SC	00008	J
G.C	5412441-SH009	K

BASIC PART NO: 5412441

SECTION A OF A

SECTION.VARIATION INDEX
[A] 00
[B]
[C]
[D]
[E]
[F]
[H]
[J]
[K]
[L]
[M]
[N]

DRN: D.SIREEN	DATE: 10-MAR-78	DIGITAL
CHK'D: F.GAROFALO	DATE: 10-MAR-78	TITLE: PARTS LIST +5V 32 AMP REGULATOR
DES.ENG: R.DAY	DATE: 10-MAR-78	
RESP.ENG.: R.DAY	DATE: 10-MAR-78	DOCUMENT NUMBER
MFG.ENG.: R.B.KING	DATE: 10-MAR-78	SIZE: K / CODE: PL / NUMBER: 5412441-0-DBP / REV: K
ASSEMBLY NUMBER: D-UA-5412441-0-0	TOP DOCUMENT NUMBER:	FILE NAME: Z7929K.PLS / EDIT #: 8

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P A R T S L I S T

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
31	31		1212787-00	THERMOSTAT,O@212,C@182,NC	1	S1
32	32		1210737-02	HEAT SINK,EXTRUSION 5.125X2.62	1	
33	33		1213071-06	INSULATOR,RUBBER SILICONE	1	
34	34		1312626-00	2.49 K .25 W 1.0 % RN55D-F10	1	R32
35	35		1300229-00	100.0 .25 W 5.0 % CF	2	R37,R38
36	36		1300250-00	150.0 .25 W 5.0 % CF	2	R24,R34
37	37		1305322-00	7.50 K .25 W 1.0 % RN55D-F10	1	R19
38	38		1300295-00	330.0 .25 W 5.0 % CF	1	R23
39	39		1301424-00	680.0 .25 W 5.0 % CF	1	R28
40	40		1301327-00	68.0 K .25 W 5.0 % CF	1	R29
41	41		1300439-00	3.30 K .25 W 5.0 % CF	1	R35
42	42		1310219-00	.25 4.0 W 1.0 % WW	1	R5
43	43		1300248-00	130.0 1.0 W 5.0 % CC	1	R6
44	44		1302644-00	226.0 .25 W 1.0 % RN55D-F10	2	R8,R9
45	45		1300277-00	220.0 1.0 W10.0 % CC	1	R16
46	46		1300309-00	390.0 .25 W 5.0 % CF	1	R40
47	47		1312922-00	536.0 .25 W 1.0 % RN55D-F10	1	R33
48	48		1300365-00	1.0 K .25 W 5.0 % CF	3	R13,R21,R27
49	49		1300394-00	1.50 K .50 W 5.0 % CF	1	R1
50	50		1300447-00	4.70 K .25 W 5.0 % CF	2	R12,R41
51	51		1300479-00	10.0 K .25 W 5.0 % CF	4	R14,R15,R22,R42
52	52		1301695-00	47.0 .50 W 5.0 % CF	1	R4
53	53		1301972-00	270.0 .25 W 5.0 % CF	1	R11
54	54		1312747-00	56.20 K .25 W 1.0 % RN55D-F10	1	R20
55	55		1302751-00	30.0 .25 W 5.0 % CF	2	R36,R39
56	56		1302871-00	1.21 K .25 W 1.0 % RN55D-F10	1	R2
57	57		1303179-00	8.20 K .25 W 5.0 % CF	2	R25,R26
58	58		1305337-00	3.65 K .25 W 1.0 % RN55D-F10	1	R3
59	59		1309143-07	1.0 K .75 W10.0 % POT	1	R31
60	60		1310868-00	.39 2.0 W 5.0 % WW	1	R10
61	61		1313712-00	.01 5.0 W 3.0 % WW	2	R17,R18
62	62		1312682-00	3.0 3.0 W 5.0 % WW	1	R7
63	63		1300256-00	150.0 1.0 W10.0 % CC	1	R30
64	64		1300171-00	10.0 1.0 W 5.0 % CC	1	R43
65	65		1510196-00	2N 5302/HSNPN 200WC SI 60 40 M	2	Q1,Q2
66	66		1510555-00	MJE3055 NPN 90WC SI 60 20 Y	1	Q4
67	67		1510705-00	XA 05 NPN 500MW SI 60 50 P	2	Q6,Q7
68	68		1510706-00	XA 55 PNP 500MW SI 60 50 P	1	Q8
69	69		1510708-00	D 45H8 PNP 50WT SI 60 60 Y	1	Q3
70	70		1510928-00	SCR PIV= 100 IO=25.00A	1	D21
71	71		1512790-00	D 44C12 NPN 30W SI	1	Q5
72	72		1511686-00	DEC5433 FET N 350MW 10 25 1A	1	Q9
73	73		1612584-00	50 UH 30A	1	L1
74	74		1612592-00	PULSE XFMR,RATIO 4:1	1	T1
75	75		1613713-00	CHOKE, 5 UH 32A	1	L2
76	76		1613714-00	2 UH 20A	1	T2
77	77		1910282-00	301AN OP AMP	2	E3,E4
78	78		1911944-00	555CN TIMER,FUNCT.BLOCK	2	E1,E2

D	I	G	I	T	A	L	TITLE	SECTION A OF A
							+5V 32 AMP REGULATOR	

SIZE	CODE	DOCUMENT NUMBER	REV
K	PL	5412441-0-DBP	K

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
79	79		7013274-00	JUMPER CAP TRAWS	1	
80	80		7013274-01	JUMPER CAP TRAWS	1	
81	81		7414765-00	HEATSINK	1	
82	82		9006633-00	WASHER,LOCK INTERNAL STEEL	3	
83	83		9008172-00	WASHER,FLAT SST	3	
84	84		9006660-00	WASHER,FLAT SST	2	
85	85		9006653-00	WASHER,FLAT STEEL	1	
86	86		9008082-00	WASHER,FLAT FIBRE	2	
87	87		9007927-00	TERM,RING #5,6STUD CRIMP 14-1	2	
88	88		9006037-03	SCREW,MACH TRUSS PHIL 8-	2	
89	89		9006557-00	NUT,HEX EXT TOOTH LCKWSHR 4-40	1	
90	90		9006563-00	NUT,HEX EXT TOOTH LCKWSHR 8-32	2	
91	91		9007203-00	CLIP, FUSE, WITH STOP, SCREW MOU	2	
92	92		9007226-00	FUSE,REG BLO 15 A, 32V GLASS	1	F1
93	93		9008268-00	COMPOUND, THERMAL JOINT	A/R	
94	94		9006012-01	SCREW,MACH PAN PHIL 4-	2	
95	95		9009000-00	EYELET,ROLLED 0.1210DX0.156	4	
96	96		9009769-00	WASHER,RECTNGLR STEEL	1	
97	97		9006021-01	SCREW,MACH PAN PHIL 6-	2	
98	98		9007660-00	SPACER,THREADED RND PHEN 4-4	1	
99	99		9007801-00	WASHER,HELICAL SPLIT SST	7	
100	100		9008957-00	NUT,HEX 6-32X .246AF SS/N	7	
101	101		9007793-01	SCREW,MACH PAN PHIL 6-	8	
102	102		9006010-01	SCREW,MACH PAN PHIL 4-	1	
103	103		9107360-99	WIRE, 18AWG(19/30)IPVC 150V	A/R	
104	104		9107370-00	WIRE, 14AWG19/.0147IPVC 150V	A/R	
105	105		1009678-00	.047 MFD 16V +80-20%Y5T DISC	1	C17
106	106		1102421-01	VZ= 6.2 1% 400 MW 1N753A	1	D22

D	I	G	I	T	A	L	TITLE	SECTION	SIZE	CODE	DOCUMENT NUMBER	REV
							+5V 32 AMP REGULATOR	A OF A	K	PL	5412441-0-DBP	K

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REV J | NUMBER 5412441-0-1 | SIZE D | CODE CS | SHT 2

J1 6 7 | F1 | D1 MDA990-3 | C1 2400Cuf | S1 NC | T1 | Q1 2N5302 | Q2 2N5302 | T2 | D7 A1148 | D8 A1148 | R5 .25 | R7 3 3W | D4 D672 | D5 D672 | D6 D672 | Q3 D45H8 | R6 130 | L1 | C21 .01UF | D12 | R43 10 1W | L2 | R19 7.5K | R20 56.2K | C18 .01uf | 3D1 E3 | R8 226 | R9 226 | R17 .01 5W | R18 .01 5W | R21 1K | R42 10K | D13 D672 | C11 560 uf | C16 1200uf | D19 MR1D338 | R36 3Ø | D20 2N5Ø62 | D21 C32FXB5 | R38 10Ø | R37 1ØØ | C17 .05uf | R39 3Ø | R40 39Ø | D22 IN753 | D26 MV 5054 | C13 .47uf | J1 1 2 5 3 4 8

R4 47 | C5 .01uf | F2 5A | R1 1.5K | Q4 MJE3Ø55 | D2 IN759A | Q5 D44C11 | D9 D672 | D10 D672 | D23 D672 | R16 22Ø 1W | R10 .39 2W | R11 27Ø | R30 150 1W | Q9 2N5433 D G S

D3 D672 | R3 3.65K | R2 1.21K | C2 2.2 uf | C22 1UF | D11 D672 | R14 10K | R12 4.7K | Q6 A05 | R13 1K | C6 47ØPF | D27 672 | R15 10K | R22 10K | Q7 A05 | D16 D672 | R26 8.2K | R27 1K | C10 .015uf | C9 22ØPF | R23 33Ø | Q8 A55 | R24 15Ø | D14 D672 | D15 D672 | R25 8.2K | R34 150 | R35 3.3K | C12 .68uf | R28 68Ø | C13 1 uf | R29 68K | R33 536 | R31 1K | R32 2.49K | D18 IN823 | R41 4.7K | C14 1uf | C20 33PF | C3 .015uf | C4 .01uf | C7 2.2uf | D17 D672 | D25 D672 | C8 10UF

VTH DCG Vcc 555 R CTL GND E1 | Vcc 555 E2 VTH DCG GND CTL | 3D1 E3 | 3D1 E4

DRN. A Vincent	7-27-76	FIRST USED ON H7441	digital		
CHK'D J	8-9-76	TITLE +5V 32 AMP REGULATOR			
ENG. J Day	8-9-76				
PROJ. ENG. Jim	8-9-76				
PROD. R Bo	8/24/76				
NEXT HIGHER ASSY.		SIZE D	CODE CS	NUMBER 5412441-0-1	REV. J
SCALE —					
SHEET 1 OF 1		DIST.			

DWG	CHANGE NO.	REV.
	5412441-00001	A
	5412441-00002	B
	5412441-00003	C
	5412441-00004	D
	5412441-00006	E
	5412441-00007	F
	5412441-00008	H
	5412441-SH0009	J

SHO

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FIELD MAINTENANCE PRINT SET

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TABLE OF CONTENTS

B-TC-H785-Ø-1	H785 REGULATOR BATTERY BACKUP (TC)
E-UA-H785-Ø-Ø	H785 UNIT ASSY
D-UA-5412343-0-0	H785 BATTERY BACKUP REGULATOR
B-PL-5412343-0-0	H785 BATTERY BACKUP REGULATOR (PL)
D-CS-5412343-0-1	H785 BATTERY BACKUP REGULATOR (CS)
D-UA-5412385-0-0	H785 CONTROL BOARD
B-PL-5412385-0-0	H785 CONTROL BOARD (PL)
D-CS-5412385-0-1	H785 CONTROL BOARD (CS)
D-UA-5412411-0-0	INPUT RECTIFIER BOARD
B-PL-5412411-0-0	INPUT RECTIFIER BOARD (PL)
D-CS-5412411-0-1	INPUT RECTIFIER BOARD (CS)

UNIT VARIATIONS COVERED BY THIS PRINT SET
H785-Ø

H785
Field Maintenance Print Set

Digital Equipment Corporation

PRINT SET ORDER NO.
MPØØ272

REVISIONS		
REV.	CHG. NO.	DATE
A	H785-3	2-78

USED ON OPTION/MODEL
7013323
1134A

SHEET I OF 1

DRN.	D. HEALY	DATE NOV 76
CHK'D	D. HEALY	DATE NOV 76
PROJ. ENG.	Joe Mercuri	DATE 12-19-76
FIELD SERV.		DATE 12-20-76

digital

TITLE: H785 REGULATOR BATTERY BACKUP

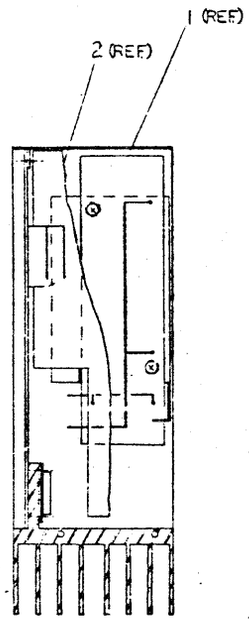
SIZE	CODE	NUMBER	REV.
B	TC	H785-Ø-1	A

DIST.

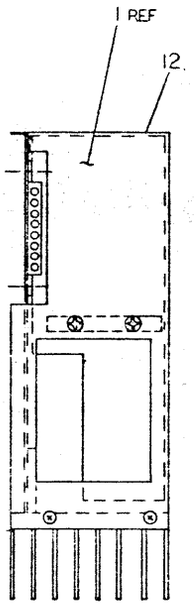
EN-0124-78-NOTA-(237)

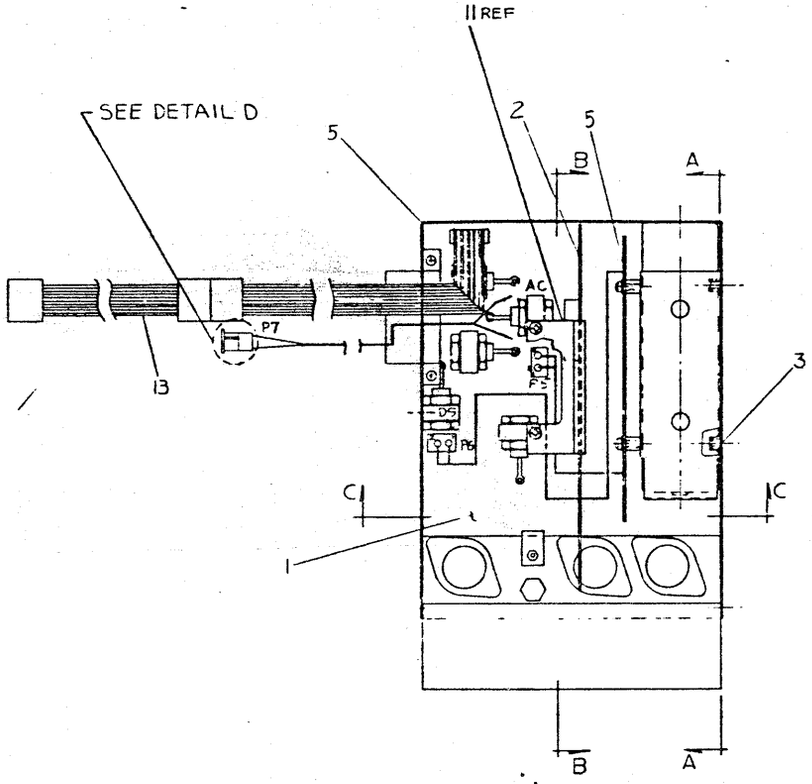
DR8 124

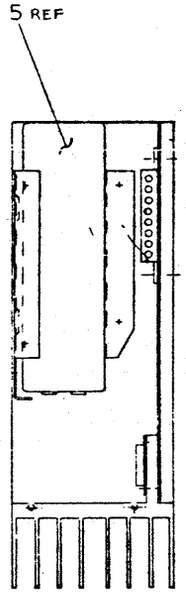
NOTES:
1. FOR INTERFACE PACKAGING ORDER PACKAGING MATERIAL PER A-SP-3700014-0-0



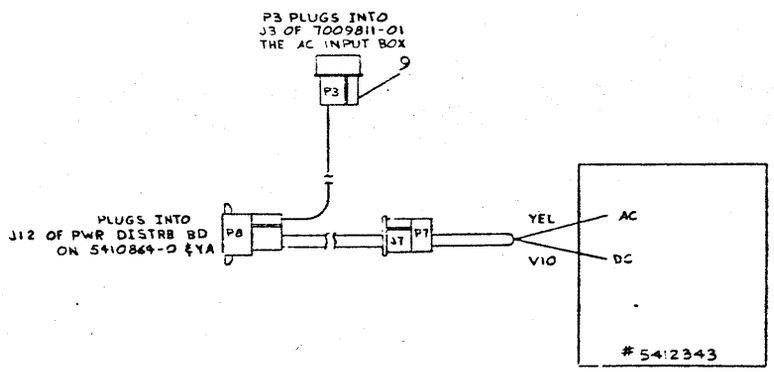
SECTION B-B



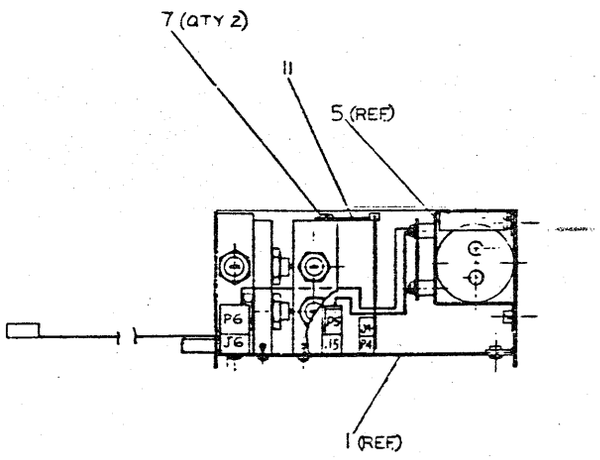




SECTION A-A



DETAIL D



SECTION C-C

SEE NOTE 1

WH	PACKAGING INSTRUCTIONS	A-SP-3700014-0-0	14
1	CABLE, CONSOLE	7011411-23	13
1	DECAL, H785-H185Ø	7416945-06	12
1	RETAINER, CARD	B-MD-7418124-0-0	11
~~2~~	~~SCR. PH. FL. HD. 6-32 x .31~~	~~9008306-6~~	~~10~~
1	CABLE, AC, DC/LO	C-IA-7013676-0-0	9
~~2~~	~~WASHER, LOCK, EXT. 1007064~~	~~9000282~~	~~8~~
2	SCR. PH. HD. PAN #4-40 x .25	9008301-01	7
~~6~~	~~SCR. PH. HD. FLAT, SELF TAP #4-40 x .31~~	~~9008342-2~~	~~6~~
1	CAPACITOR BRKT. ASSY	C-AD-7013322-0-0	5
~~1~~	~~WASHER, FLAT, #6~~	~~9008206-6~~	~~4~~
4	SCR. PH. FL. HD. 6-32 x .19	9008020-2	3
1	H785 CONTROL BOARD	D-UA-5412385-0-0	2
1	H785 BATTERY BACKUP REGULATOR	D-UA-5412343-0-0	1

REVISIONS				
LTR	DESCRIPTION	DWG/PART NO.	ITEM NO.	
A	ECO 785-0001			
B	ECO H785-0002			
C	ECO H785-0003			
D	ECO H785-0004			
E	ECO H785-0005			
F	ECO H785-0006			
G	ECO H785-0007			
H	ECO H785-0008			

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

ANGLES ± 30'	CLASS OF ACCURACY	NOMINAL DIMENSION ALLOWED INCREASE					
		OVER 0 TO 1	OVER 1 TO 2	OVER 2 TO 4	OVER 4 TO 8	OVER 8 TO 12	OVER 12 TO 24
SURFACE QUALITY 125	STOCK SIZES	1.000	1.000	1.000	1.000	1.000	1.000
MICROINCHES	PREFERRED	1.000	1.000	1.000	1.000	1.000	1.000

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

RECEIVER BOARD AND CRASH BOARD SCREWDRIVER

DO NOT SCALE DWG

DRN	[illegible]	FIRST USED ON 1134A
CHK'D	[illegible]	
ENGR	[illegible]	TITLE REGULATOR BATTERY BACKUP
PROJ ENGR	[illegible]	
PROG	[illegible]	
NEXT HIGHER ASSY.		
MATERIAL SEE PARTS LIST	8-00-H785-Ø	SIZE B CODE 14 DWG NO. H785-2-Ø REV. 5
SCALE NONE		
SHEET	OF	

8-00-0787H

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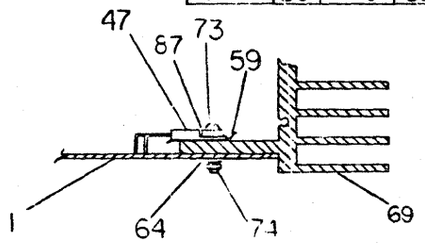
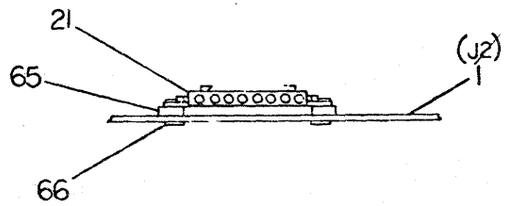
UNTWIST ITEM NO 77 AND USE PROPER COLOR.

WIRE TABLE

ITEM NO	RUN NO	DESCRIPT. AWG	DESCRIPT. COLOR	FROM	TO H785	TO H7850	LENGTH
77	75	18 TWP	BLK	D11 ANODE	PAD 1	PAD 1	4.50
	76		RED	D10 ANODE	PAD 2	PAD 2	4.50
	77	18	RED	D9 CATHODE	PAD 3	PAD 3	3.00
	78	18	RED	D12 CATHODE	PAD 10	PAD 10	3.75
77	79	18 TWP	BLK	D16 ANODE	PAD 11	PAD 11	1.50
	80		RED	D15 ANODE	PAD 6	PAD 6	2.00
77	81	18 TWP	BLK	D17 CATHODE	PAD 8	PAD 7	2.75
	82		RED	D18 CATHODE	PAD 4	PAD 5	2.75
77	83	18 TWP	RED	D13 ANODE	D18 CATHODE	D18 CAT.	3.50
	84		BLK	D14 ANODE	D17 CATHODE	D17 CAT.	3.50
	85	18	BLK	D9 ANODE	PAD 9	PAD 9	3.00



VIEW D-D
SCALE: NONE



VIEW B-B
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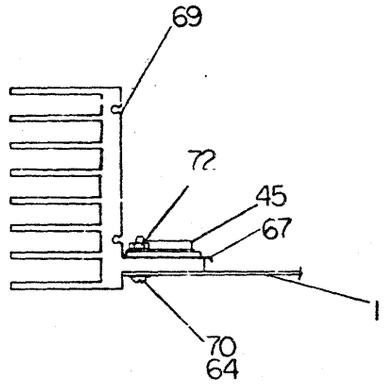
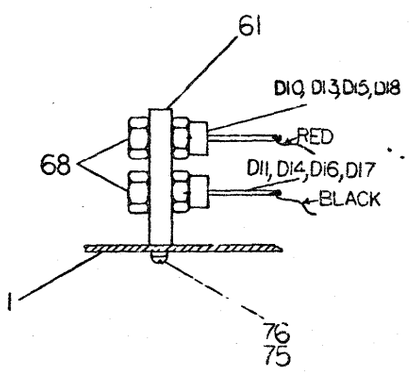
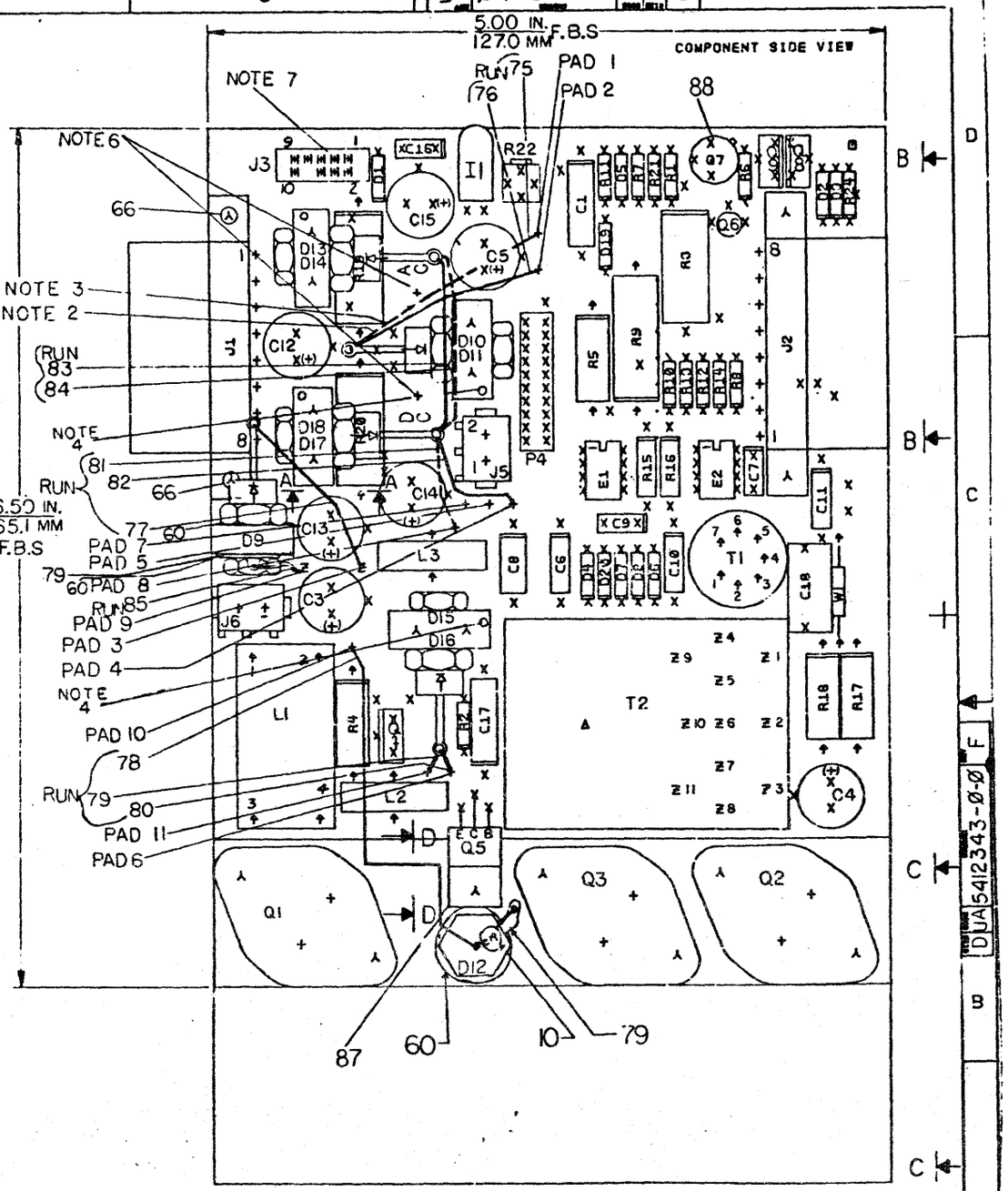


VIEW C-C
SCALE: NONE



VIEW A-A
SCALE: NONE
TYP. 4 PLACES



NOTES:
1. SEE SHEET 4 OF 4 FOR DIODE WIRING.
2. SOLID LINE INDICATES WIRE FROM THE TOP DIODE.
3. DASHED LINE INDICATES WIRE FROM BOTTOM DIODE.
4. TAPPED HOLE AT TOP OF HEATSINKS MUST FACE PROPER WAY TO ALLOW INSERTION OF CARD GUIDE.
5. TORQUE SPECIFICATIONS:
   Q1-Q5 10 IN-LBS INSPECT TO MIN OF 6 TORQUE FROM SCREW HEAD
   Q5 8 IN-LBS INSPECT TO MIN OF 5 TORQUE FROM SCREW HEAD
   D9-D18 4 IN-LBS INSPECT TO MIN OF 2 TORQUE FROM NUT SIDE

NOTES:
6. SOLDER ITEM NO 55 AC, DC CABLE TO REGULATOR BOARD RED WIRE TO PTH MARKED DC. BLACK WIRE TO PTH MARKED AC
7. INSERT ON TO J3 ITEM NO. 58

REVISIONS				
REV	CHANGE NO	CHK		
C	5412343-00001	K. Potter	21 DEC 77	
D	5412343-00002	R. Mahoney	21 DEC 77	
E	5412343-00003	R. Mahoney	30 DEC 77	
F	5412343-MG004	W.F. BAUSHA		

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

SIGNATURES	DATE
DRN.	11-8-76
CHK'D.	3-
ENG.	1-3-77
PROJ. ENG.	1-3-77
PROG.	2-2-77
SCALE 2-1	
SHT. 1 OF 5	
NEXT HIGHER ASSY. B-DD-5412343-0	

digital

TITLE 4785 BATTERY BACKUP REGULATOR

SIZE	CODE	NUMBER	REV
D	UA	5412343-0-0	F

DUA 5412343-0-0 F

1 MS#60929

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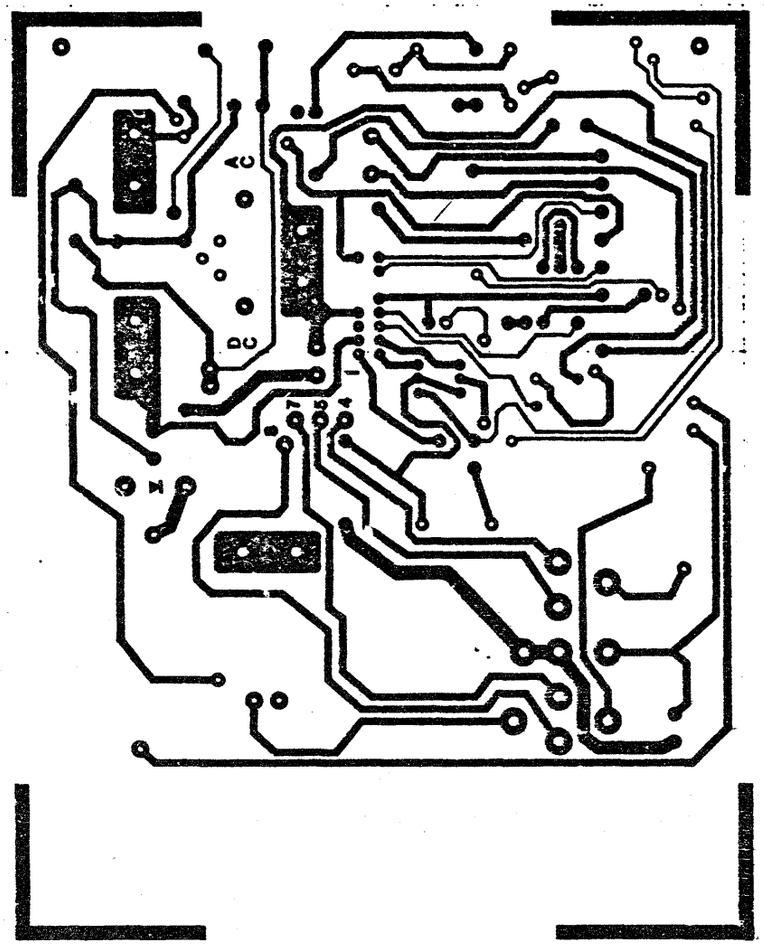
5012342C 5412343



REVISIONS		
CHK	CHANGE NO	REV

TITLE	SIZE	CODE	NUMBER	REV
H785 BATTERY BACKUP REGULATOR	D	07UA	5412343-0-0	F
SCALE 2/1 SHEET 2 OF 5	DIST			

D UA 5412343-0-0 F

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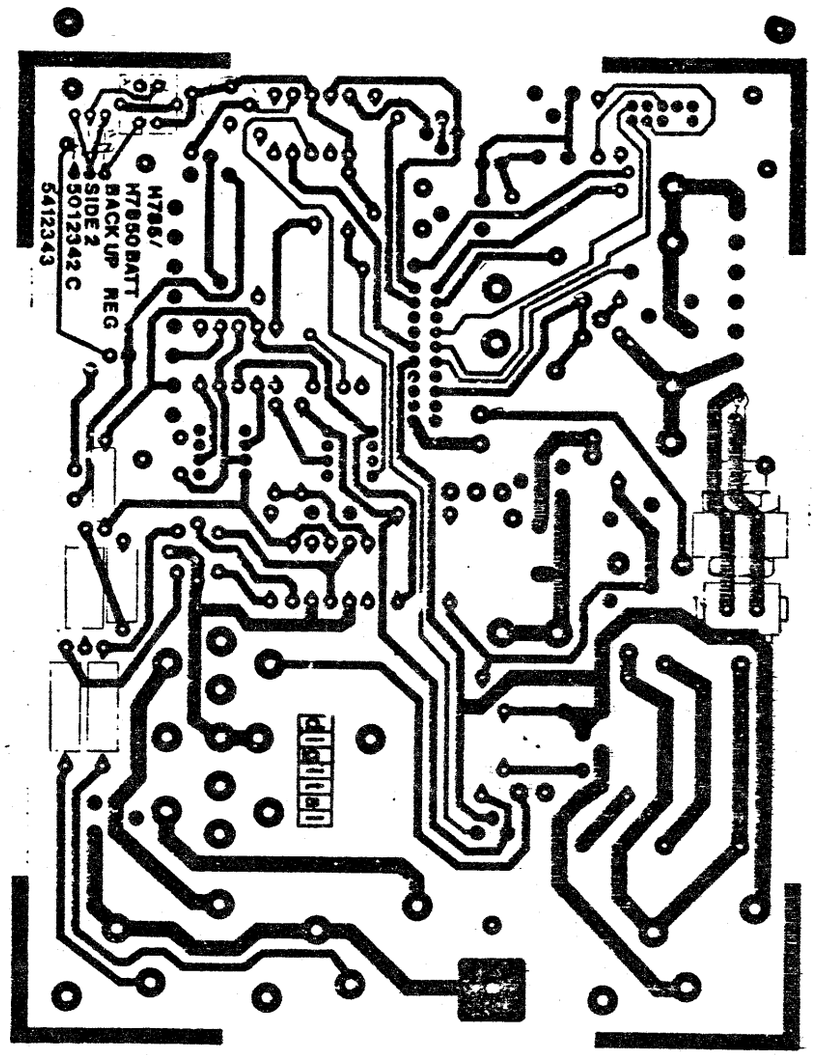

REVISIONS		
CHK	CHANGE NO	REV

TITLE	H785 BATTERY BACKUP REGULATOR	SIZE / CODE	NUMBER	REV.
		D UA	5412343-Ø-Ø	F
SCALE 2/1	SHEET 3 OF 5	DIST		

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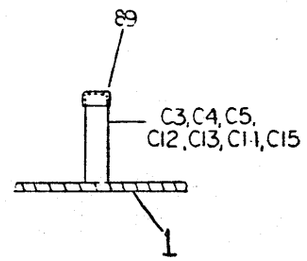
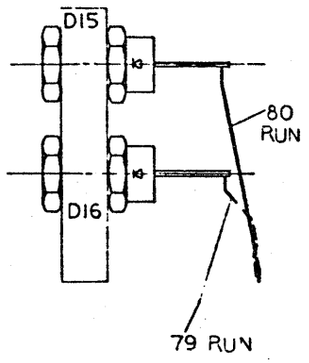
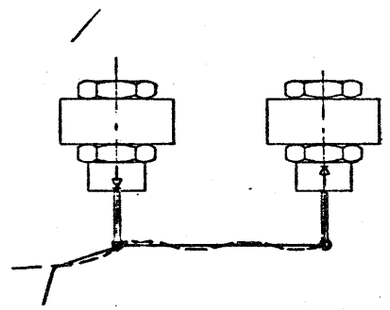
NOTES:

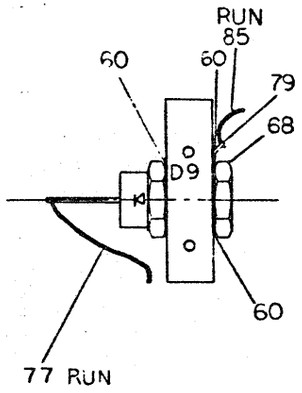
1. WIRING INFORMATION IS ON SHEET 1 OF 4.

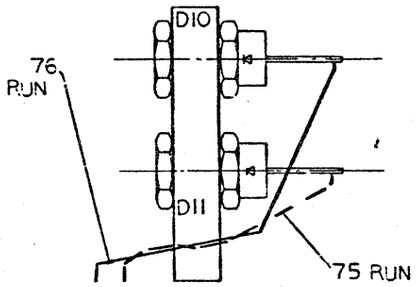
2. DIODES TO BE ASSEMBLED TO HEAT-SINKS AND WIRED AS SHOWN BEFORE INSTALLING TO BOARD.

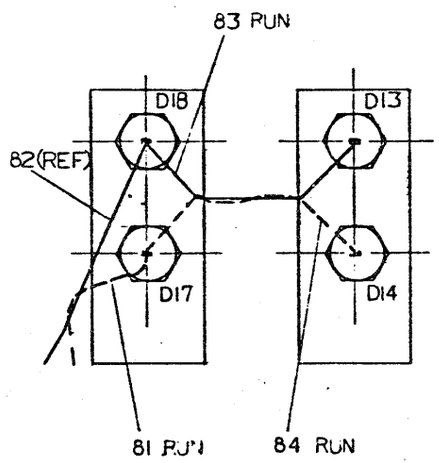












REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	H785 BATTERY BACKUP REGULATOR	SIZE	CODE	NUMBER / REV.
		D	UA	5412343-0-0 / F
SCALE 2/1	SHEET 1 OF 5	DIST		

DUA 5412343-0-0 REV F

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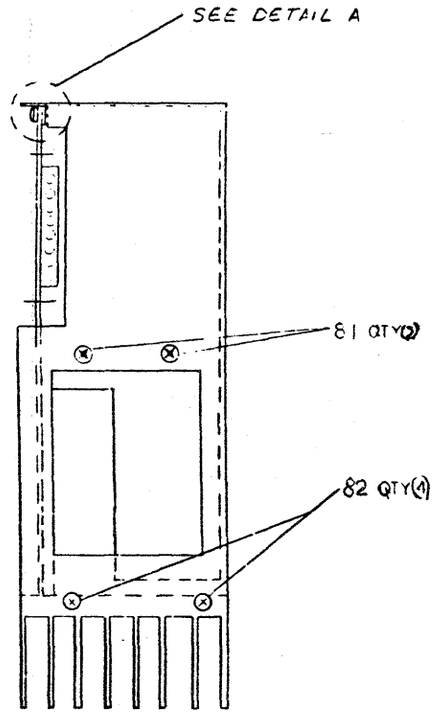

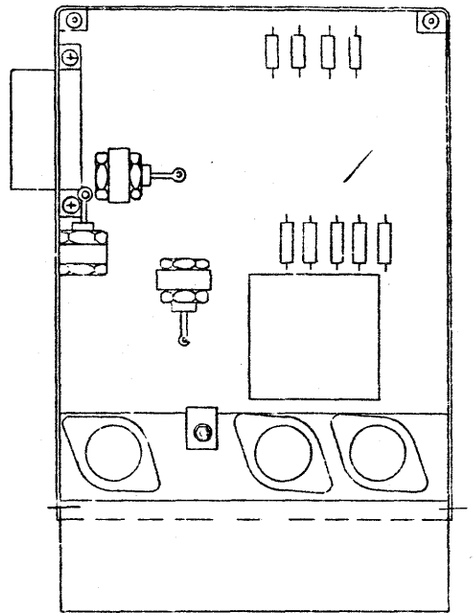

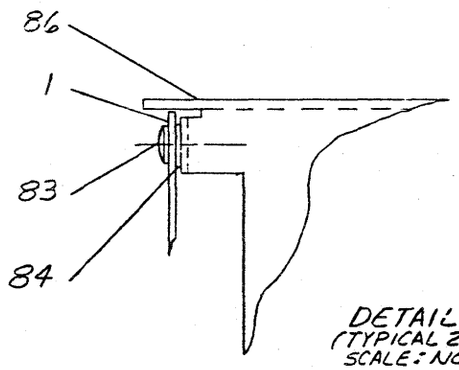

DETAIL A
(TYPICAL 2 PLACES)
SCALE: NONE

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
H785 BATTERY BACKUP REGULATOR	D	UA	5412343-C-0	F
SCALE 1-1 SHEET 5 OF 5	DIST.			

5412343-0-0 REV F
SIZE D CODE UA

P A R T S L I S T

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
1	1	D-MD-5012342-0-0	5012342-00	ETCH BRD 54-12343	1	
2	2		1002431-00	2.2MFD 35V 10% 150S S.TA	1	C10
3	3		1012607-02	180 MFD 50V H% 672D AL EL	3	C3-C5
4	4		1000042-00	1000.0 MMF 100V 5%200PPM DM15S	1	C7
5	5		1010646-00	.015 MFD 50V 2% M.POLYCARB	1	C8
6	6		1000024-00	470.0 MMF 100V 5%200PPM DM15S	1	C9
7	7		1001776-00	1 MFD 35V 10% S.TANT	2	C6,C11
8	8		1012607-00	560 MFD 20V H% 672D AL EL	3	C12-C14
9	9		1012607-01	1200 MFD 6.3V H% 672D AL EL	1	C15
10	10		1010621-00	.1 MFD 50V 20% Z5U DISC	2	C16,C19
11	11		1004813-00	10 MFD 20V 10% S.TANT	2	C1,C17
12	12		1000030-00	.1 MFD 100V 20% Z5U DISC	1	C18
13	13	BLANK			0	
14	14		1100125-00	1N 758A VZ= 10.0 5% .40W PPE	2	D2,D3
15	15		1105275-00	D 672 TR= 15NS PIV= 60V SI	7	D1,D4-D8,D20
16	16		1109440-00	1N 3880 PIV=100 I= 6A DO4 SM	6	D10,D11,D13-D16
17	17		1113366-00	1N 3880R PIV=100 I=6A	4	D17,D18,D9,D12
18	18		1105648-00	1N 4744 VZ= 15.0 10% 1W	1	D19
19	19	BLANK			0	
20	20		1211004-02	SOCKET.100 20POS EDGE MOUNT	1	P4
21	21		1209340-00	MATE-N-LOK 8POS HSG,SKT	2	J1,J2
22	22		1209456-01	MATE-N-LOK SKT 20-18AWG LOOSE PC	16	
23	23		1211342-02	MATE-N-LOK 2PIN HEADER	2	J5,J6
24	24		1209219-01	LAMP 6V@200MA,T1-3/4PINS#2319	1	I1
25	25	BLANK			0	
26	26		1300202-00	47.0 .25 W 5.0 % CC	1	R2
27	27		1309639-00	200.0 5.0 W 5.0 % WW	1	R3
28	28		1312682-00	3.0 3.0 W 5.0 % WW	1	R4
29	29		1302950-00	1.20 K 1.0 W10.0 % CC	1	R5
30	30		1300426-00	2.70 K .25 W 5.0 % CC	2	R6,R7

REVISION HISTORY		
ENG	ECO NUMBER	REV
B.N	00004	F
WFB	12343-TW005	H

BASIC PART NO: 5412343

SECTION A OF A

SECTION.VARIATION INDEX

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[J]
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[L]
[M]
[N]

DRN: D BILODEAU DATE: 31-JUL-78

CHK'D: R PUZZO DATE: 31-JUL-78

DES.ENG: J MERCURI DATE: 31-JUL-78

RESP.ENG.: J MERCURI DATE: 31-JUL-78

MFG.ENG.: B KING DATE: 31-JUL-78

ASSEMBLY NUMBER: D-UA-5412343-0-0

TOP DOCUMENT NUMBER:

DIGITAL

TITLE: PARTS LIST

H785 BATTERY BACKUP REGULATOR

DOCUMENT NUMBER

SIZE	CODE	NUMBER	REV
K	PL	5412343-0-DBP	H

FILE NAME: Z1301H.PLS

EDIT #: 10

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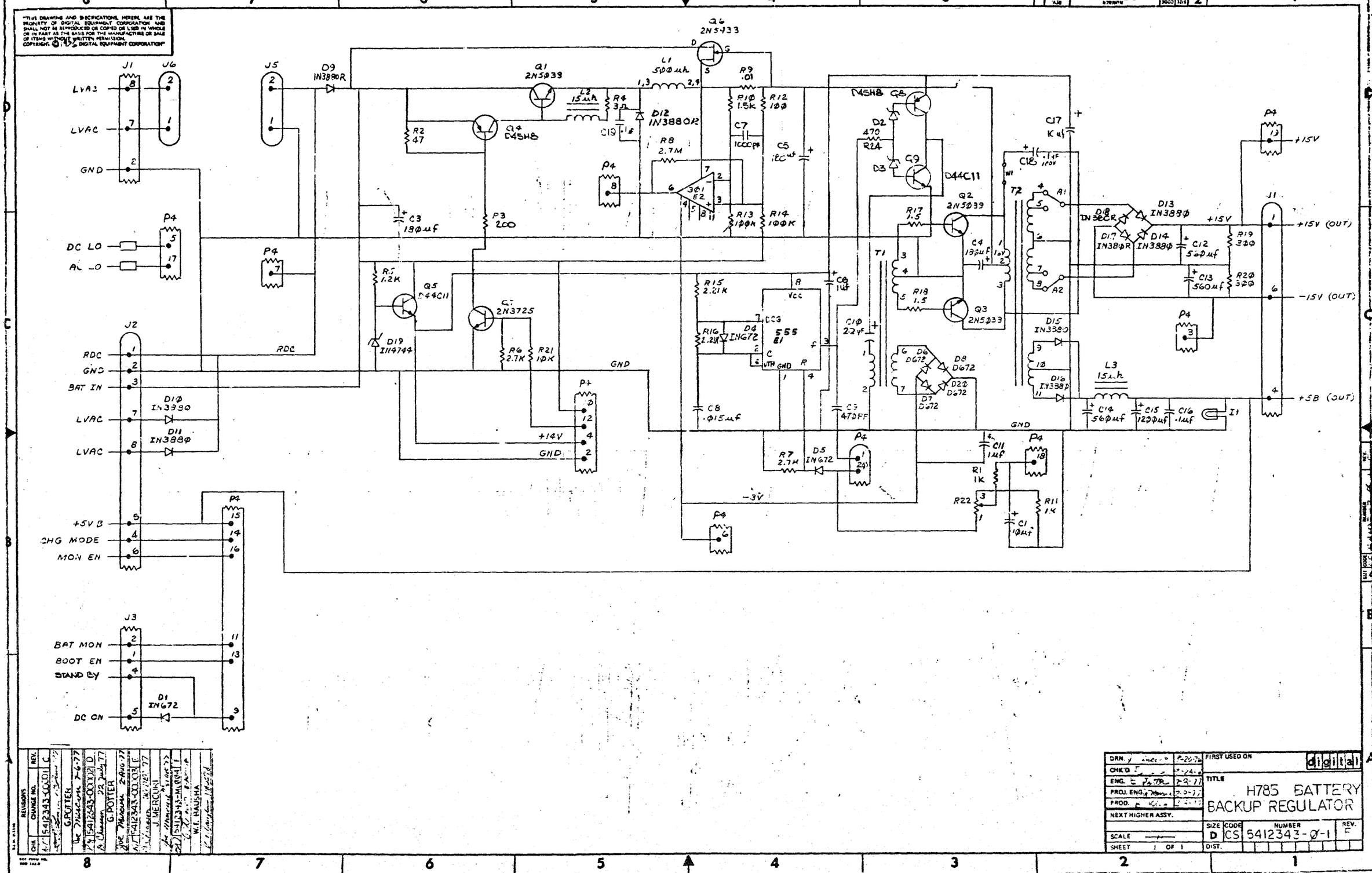
P A R T S L I S T

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
31	31		1309680-00	2.70 M .25 W 5.0 % CC	1	R8
32	32		1313712-00	.01 5.0 W 3.0 % WW	1	R9
33	33		1300365-00	1.0 K .25 W 5.0 % CC	2	R1,R11
34	34		1300229-00	100.0 .25 W 5.0 % CC	1	R12
35	35		1302466-00	100.0 K .25 W 5.0 % CC	2	R13,R14
36	36		1312404-00	2.21 K .50 W 1.0 % RN60D-F10	2	R15,R16
37	37		1313579-00	1.50 3.0 W 5.0 % WW	2	R17,R18
38	38		1309855-00	300.0 2.0 W 5.0 % CC	2	R19,R20
39	39		1300479-00	10.0 K .25 W 5.0 % CC	1	R21
40	40		1310852-00	200.0 .50 W20.0 % POT	1	R22
41	41		1300391-00	1.50 K .25 W 5.0 % CC	1	R10
42	42		1300316-00	470.0 .25 W 5.0 % CC	1	R24
43	43	BLANK			0	
44	44	BLANK			0	
45	45		1510969-00	2N 5038 NPN 140WC SI 90 50 Y	3	Q1-Q3
46	46		1510708-00	D 45H8 PNP 50WT SI 60 60 Y	2	Q4,Q8
47	47		1512790-00	D 44C11 NPN 30W SI 80 40	2	Q5,Q9
48	48		1511686-00	DEC5433 FET N 350MW 10 25 1A	1	Q6
49	49		1510959-00	2N 3725 NPN 3.5WC SI 50 60 P	1	Q7
50	50	BLANK			0	
51	51		1612593-00	500 UH 6A	1	L1
52	52		1613874-00	CHOKE,15UH 4A	2	L2,L3
53	53		1613876-00	XFMR,POWER,RATIO 1:2 7PIN	1	T1
54	54		1613875-00	XFMR,POWER,RATIO 1:2:3 100UH	1	T2
55	55		7013690-00	CABLE 2 PIN AC DC LOW	1	
56	56		1911944-00	555CN TIMER,FUNCT.BLOCK	1	E1
57	57		1910282-00	301AN OP AMP	1	E2
58	58		7013384-10	DC ON/OFF CABLE	1	
59	59		1213071-06	INSULATOR,RUBBER SILICONE	1	
60	60		1213071-05	INSULATOR,RUBBER THERMAL	3	
61	61		7417414-00	HEAT SINK (DUAL)	4	
62	62		7417413-00	HEAT SINK (SINGLE)	1	
63	63		9006655-00	WASHER, FLAT, .312 O.D. X .125 I	1	
64	64		9008172-00	WASHER, FLAT,SS .250 OD X .125 I	6	
65	65		9006706-00	WASHER, NYLON, FLAT #4 .375 OD	2	
66	66		9006745-00	EYELET, ROLLED FLANGE, .120 OD X	4	
67	67		1213071-02	INSULATOR,RUBBER SILICONE SM	3	
68	68		9006565-00	NUT,KEP , 10-32X 3/8 AF	10	
69	69		1210737-04	HEAT SINK,REGULATOR	1	
70	70		9006013-04	SCREW,BIND,SLOT, 4-40X 1/2	6	
71	71		9007649-00	*** THIS ITEM IS NOT USED ***	-	
72	72	BLANK			0	
73	73		9008033-01	SCREW,PAN,PHIL 4-40X 9/16 SS	1	
74	74		9006557-00	NUT,KEP , 4-40X 1/4 AF	7	
75	75		9000037-03	WASHER, LOCK, INTERNAL TOOTH	8	
76	76		9006010-04	SCREW,BIND,SLOT, 4-40X 5/16	8	
77	77		9107430-02	WIRE,STRND,18AWG,IPVC (UL1429)	A/R	
78	78		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	1	W1

DIGITAL	TITLE	SECTION	SIZE	CODE	DOCUMENT NUMBER	REV
	H785 BATTERY BACKUP REGULATOR	A OF A	K	PL	5412343-0-DBP	H

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
79	79		9008506-00	TERM LUG 1POS SOLDER,FLAT	2	
80	80		9009149-00	PIN, STAKING, P.C. BOARD, .025 X	9	J3
81	81		9008404-02	SCREW,FLAT,PHIL, 6-32X 5/16 S	2	
82	82		9009142-02	SCREW, PHILLIPS FLAT HEAD, SELF	4	
83	83		9006010-01	SCREW,PAN,PHIL 4-40X 5/16 SS	2	
84	84		9008079-00	WASHER, FLAT FIBER OD. 1/4	2	
85	85		9905212-00	CARTON, DIE CUT	1	
86	86	D-IA-7417410-0-0	7417410-00	REGULATOR BRACKET	1	
87	87		9009769-00	WASHER, RECTANGULAR .405X.225X.0	1	
88	88		9007201-00	TRANSIPADS #10253	1	
89	89		9009731-03	CAP,OPT. VINYL .500 ID	7	

DIGITAL	TITLE H785 BATTERY BACKUP REGULATOR	SECTION A OF A	SIZE K / CODE PL / DOCUMENT NUMBER 5412343-0-DBP / REV H



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REVISIONS				
CHK	CHANGE NO.	REV.		
	5412343-0001	C	G.POTTER	6-6-77
	5412343-0002	D	J. MERCURI	22 JULY 77
	5412343-0003	E	J. MERCURI	26 OCT 77
	5412343-0004	F	W.T. HAUSHA	11 NOV 77

DRN.		8-20-76
CHK'D		
ENG.		8-20-76
PROJ. ENG.		8-20-76
PROD.		8-20-76
NEXT HIGHER ASSY.		
SCALE		
SHEET	1 OF 1	

FIRST USED ON

digital

TITLE

H785 BATTERY BACKUP REGULATOR

SIZE	CODE	NUMBER	REV.
D	CS	5412343-Ø-1	F

DIST.

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REWORK INSTRUCTIONS

ECO #1

1-1 CUT ETCH BETWEEN R41 AND D16. (THIS ETCH LINE RUNS OVER TO THE DRAIN OF Q10) SIDE 1.

1-2 CUT ETCH ON RIGHT SIDE OF C14, ON THE ETCH LINE THAT HAS PREVIOUSLY BEEN CUT, SIDE 1.

1-3 INSERT ECO WIRE FROM THE DRAIN OF Q10 TO THE LEFT SIDE OF C14, TACK SOLDER TO ETCH LINE ON THE LEFT SIDE OF C14, SIDE 1. (THIS IS THE SAME ETCH LINE THAT WAS CUT ON THE RIGHT SIDE OF C14). ECO WIRE IS TO BE ROUTED TO THE TOP OF THE BOARD FROM THE DRAIN OF Q10 THEN RUN ALONG THE BOARD AND COME DOWN TO THE LAND OF ETCH THAT IT HAS TO BE SOLDERED TO THE LEFT SIDE OF C14.

1-4 DRILL A .0635 DIA. HOLE (DRILL #52) BENEATH R32 (SIDE 1) MAKING SURE THE ONLY ETCH DRILLED IS THE ONE WITH BOTH ITS ENDS CUT (SEE STEPS 1 AND 2 OF REWORK INSTRUCTIONS). THIS HOLE HAS TO HOLD DEC. 12-12416-02. BE SURE OF SPACING BEFORE DRILLING.

1-5 DRILL A .0635 DIA. HOLE (DRILL #52) ABOVE Q1 TO THE LEFT SIDE OF R1, SIDE 1. BE SURE OF SPACING. THIS HOLE MUST HOLD DEC. 12-12416-02. DO NOT PIERCE ETCH ON SIDE 2.

1-6 ON SIDE 2, CUT ETCH LEADING AWAY FROM PIN 9 OF J4.

1-7 INSERT DEC. 12-12416-02 IN BOTH HOLES PREVIOUSLY DRILLED. DO NOT INSERT FULLY. INSERT SO THAT ENOUGH OF THE LEAD IS THROUGH THE BOARD THAT WILL PERMIT A COUPLE WRAPS OF AN ECO WIRE. THEN GLUE IN PLACE WITH DEC. 9009157. MAKE SURE THAT TABS ON DEC. 12-12416-02 ARE FACING EACH OTHER ON SIDE 1. (S1 AND S2)

1-8 ON DEC PART 12-12416-02 THE ONE THAT IS LOCATED CLOSEST TO J4 ON SIDE 1, CONNECT THE LEAD THAT GOES THROUGH THE BOARD, TO PIN J4-9 ON SIDE 2. THIS IS DONE WITH AN ECO WIRE INSTALLED ON SIDE 2.

1-9 WITH AN ECO WIRE, CONNECT BOTH CASE TABS OF DEC. 12-12416-02 ON SIDE 1 TOGETHER.

1-10 DEC. PART 12-12416-02 THAT HAS BEEN INSTALLED BENEATH R32 ON SIDE 1. CONNECT AN ECO WIRE FROM THIS PARTS PIN ON SIDE 2 WITH THE OTHER END OF THE ECO WIRE GOING TO THE P.T.H BETWEEN R41 AND D16. (THIS P.T.H. HAS AN ETCH RUN CONNECTING THE ANODE OF D16 TO IT ON SIDE 2.)

1-11 CHANGE R10 FROM 13-13151 3.6K OHM TO 1300391 1.5K OHM.

1-12 CHANGE R11 FROM 13-00316 470 OHM TO 13-00439 3.3K OHM.

1-13 CHANGE R4 FROM 13-00309 390 OHM TO 13-01322 180 OHM.

1-14 REMOVE W2 INSULATED JUMPER 90-09185.

1-15 REMOVE D17, IN 758A 11-00125

1-16 GLUE ALL ECO WIRES DOWN WITH DEC. 90-09157.

ECO #2

COMPONENT DELETES SIDE 1:

2-1. C15 (P/N 1000021)

2-2. D16 (P/N 1110068)

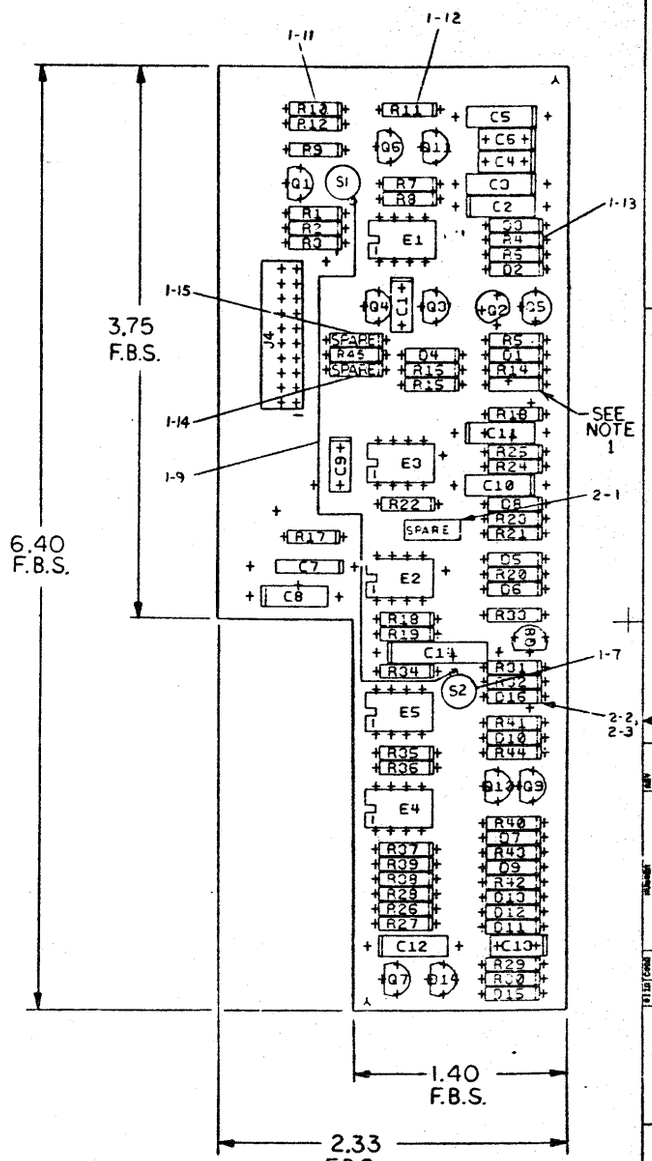
COMPONENT ADDS SIDE 1:

2-3. D16 (ZENER BI-DIRECTIONAL P/N 1119913-00)

NOTES:

1. COMPONENT NOT INSERTED

COMPONENT SIDE VIEW



CHK	CHANGE NO	REV
	5412365-1	C
		D
	5412385-2	
	5412385-3	E
		F

ETCH REV. C

P.C. DESIGN DATA BASE REV. C

SIGNATURES	DATE
DRN. F. GAROFALO	12-8-76
CHK'D. F. SEIDMAN	12-8-76
ENG.	12 DEC 76
PROJ. ENG.	12 DEC 76
PROD.	12 DEC 76

digital

TITLE: H785 CONTROL BD

SCALE 2/1

SHT. 1 OF 3

SIZE	CODE	NUMBER	REV
D	UA	5412385-0-0	F

NEXT HIGHER ASSY. B-DD-5412385-0

TW 1 MS# 60944

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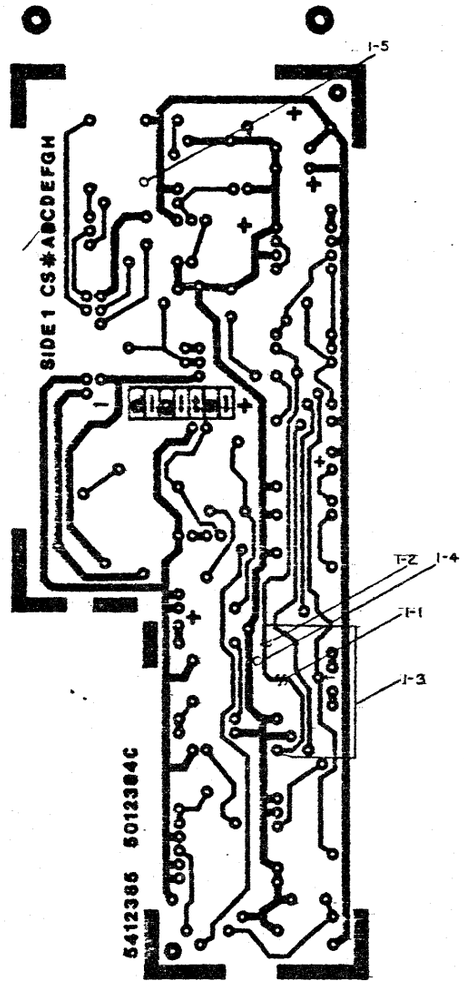

REVISIONS		
CHK	CHANGE NO	REV

TITLE	SIZE	CODE	NUMBER	REV.
H785 CONTROL BD	D	UA	5412385-0-0	F
SCALE 2/1 SHEET 2 OF 3	DIST			

DWG NO DUA 5412385-0-0 REV F

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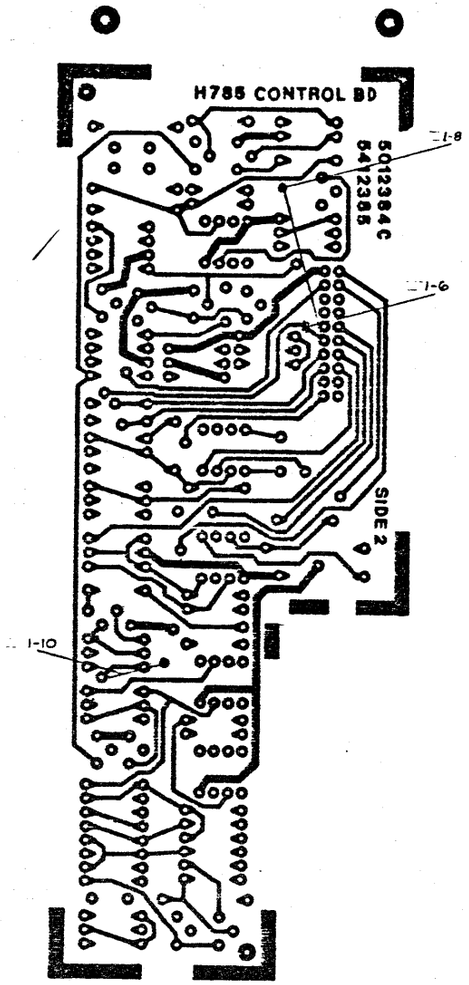

REVISIONS		
CHK	CHANGE NO	REV

TITLE	SIZE	CODE	NUMBER	REV.
H785 CONTROL BD	D	UA	5412385-0-0	F
SCALE 2/1 SHEET 3 OF 3	DIST			

D UA 5412385-0-0 F

AUTOMATED BY PRTLST.3P(44)

P A R T S L I S T

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
1	1	D-MD-5012384-0-0	5012384-00	5412385	1	
2	2		1001610-01	.01 MFD 50/100V +80-20% DISC	4	C1,C4,C6,C13
3	3		1004813-00	10 MFD 20V 10% S.TANT	1	C2
4	4		1001776-00	1 MFD 35V 10% S.TANT	3	C3,C5,C11
5	5		1000061-00	.0082 MFD 100V 10% MYLR	1	C7
6	6		1005965-00	.47 MFD 35V 10% S.TANT	3	C8,C12,C10
7	7		1000009-00	33.0 MMF 100V 5% 200PPM MICA	1	C9
8	8		1005306-00	6.8MFD 35V 10% S.TANT	1	C14
9	9		1105275-00	D 672 TR= 15NS PIV= 60V SI	9	D1,D2,D3,D5,D6,D9,D10,D12,D13
10	10		1109988-00	1N 964B VZ= 13.0 / 5% .40W	1	D4
11	11		1102808-00	1N 752A VZ= 5.6 / 5% .40W	2	D11,D15
12	12		1110968-00	2N 5062 SCR@100V I=.8A TO92	1	D14
13	13		1110713-00	SZ710910 VZ= 5.1 2% M	1	D7
14	14		1114913-00	VZ= 18.0 10% 1W	1	D16
15	15		1300398-00	1.80 K .25 W 5.0 % CC	2	R32,R38
16	16		1300479-00	10.0 K .25 W 5.0 % CC	11	R1,R13,R18,R19,R20,R21,R28,R31, CONT R42-R44
17	17		1300229-00	100.0 .25 W 5.0 % CC	5	R3,R5,R25,R29,R45
18	18		1301322-00	180.0 .25 W 5.0 % CC	1	R4
19	19		1302177-00	47.0 K .25 W 5.0 % CC	1	R6
20	20		1302394-00	30.0 K .25 W 5.0 % CC	1	R7
21	21		1302091-00	330.0 K .25 W 5.0 % CC	1	R8
22	22		1300365-00	1.0 K .25 W 5.0 % CC	6	R2,R9,R12,R14,R37,R40
23	23		1300426-00	2.70 K .25 W 5.0 % CC	1	R16
24	24		1302092-00	220.0 K .25 W 5.0 % CC	1	R15
25	25		1301423-00	6.80 K .25 W 5.0 % CC	1	R17
26	26		1302871-00	1.21 K .25 W 1.0 % RN55D-F10	1	R35
27	27		1302955-00	750.0 .25 W 1.0 % RN55D-F10	1	R34
28	28		1303312-00	10.0 K .25 W 1.0 % RN55D-F10	1	R36
29	29		1302466-00	100.0 K .25 W 5.0 % CC	3	R22,R39,R41

REVISION HISTORY

ENG	ECO NUMBER	REV
---	INITIAL	F

BASIC PART NO: 5412385

SECTION A OF A

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DRN: F. MALANSON DATE: 21-FEB-78

CHK'D: F. SIEDMAN DATE: 21-FEB-78

DES.ENG: J. MERCURI DATE: 21-FEB-78

RESP.ENG.: R.B. KING DATE: 21-FEB-78

MFG.ENG.: J. MERCURI DATE: 21-FEB-78

ASSEMBLY NUMBER:
D-UD-5412385-0-0

TOP DOCUMENT NUMBER:

D I G I T A L

TITLE PARTS LIST

H785 CONTROL BOARD

DOCUMENT NUMBER

SIZE	CODE	NUMBER	REV
K	PL	5412385-0-DBP	F

FILE NAME: Z3604F.PLS

EDIT # 2

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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
30	30		1300271-00	220.0 .25 W 5.0 % CC	1	R26
31	31		1303179-00	8.20 K .25 W 5.0 % CC	1	R27
32	32		1302751-00	30.0 .25 W 5.0 % CC	1	R30
33	33		1309417-00	27.40 K .25 W 1.0 % RN55D-F10	1	R33
34	34		1503409-00	DEC6534D PNP 310MW SI 40 90	4	Q1,Q4,Q7,Q8
35	35		1517832-00	J 177 FET 360MW SI P CHNNL	1	Q2
36	36		1511686-00	DEC5433 FET N 350MW 10 25 1A	4	Q3,Q9,Q10,Q11
37	37		1509338-00	DEC6531B NPN 310MW SI 40 90 P	1	Q5
38	38		1510705-00	XA 05 NPN 500MW SI 60 50 P	1	Q6
39	39		1911944-00	555CN TIMER,FUNCT.BLOCK	2	E1,E2
40	40		1910282-00	301AN OP AMP	3	E3,E4,E5
41	41		1300391-00	1.50 K .25 W 5.0 % CC	2	R10,R24
42	42		1213335-00	HEADER 20POS RT ANGLE FOR 12	1	J4
43	43		1300439-00	3.30 K .25 W 5.0 % CC	1	R11
44	44		1212416-02	THERMOSTAT,0@160,N/C,SPST,AUTO R	2	S1,S2
45	45		1300432-00	3.0 K .25 W 5.0 % CC	1	R23
46	46		1109990-00	1N 757A VZ= 9.1 5% .40W P	1	D8
47	47	BLANK		*** THIS ITEM IS NOT USED ***	-	
48	48		9009157-00	ADH,LIQ.RM.TEMP CURING COLORLESS	A/R	
49	49		9105740-55	WIRE(WRAP)30AWG UL1423	A/R	

D	I	G	I	T	A	L	TITLE	SECTION	SIZE	CODE	DOCUMENT NUMBER	REV
							H785 CONTROL BOARD	A OF A	K	PL	5412385-0-DBP	F

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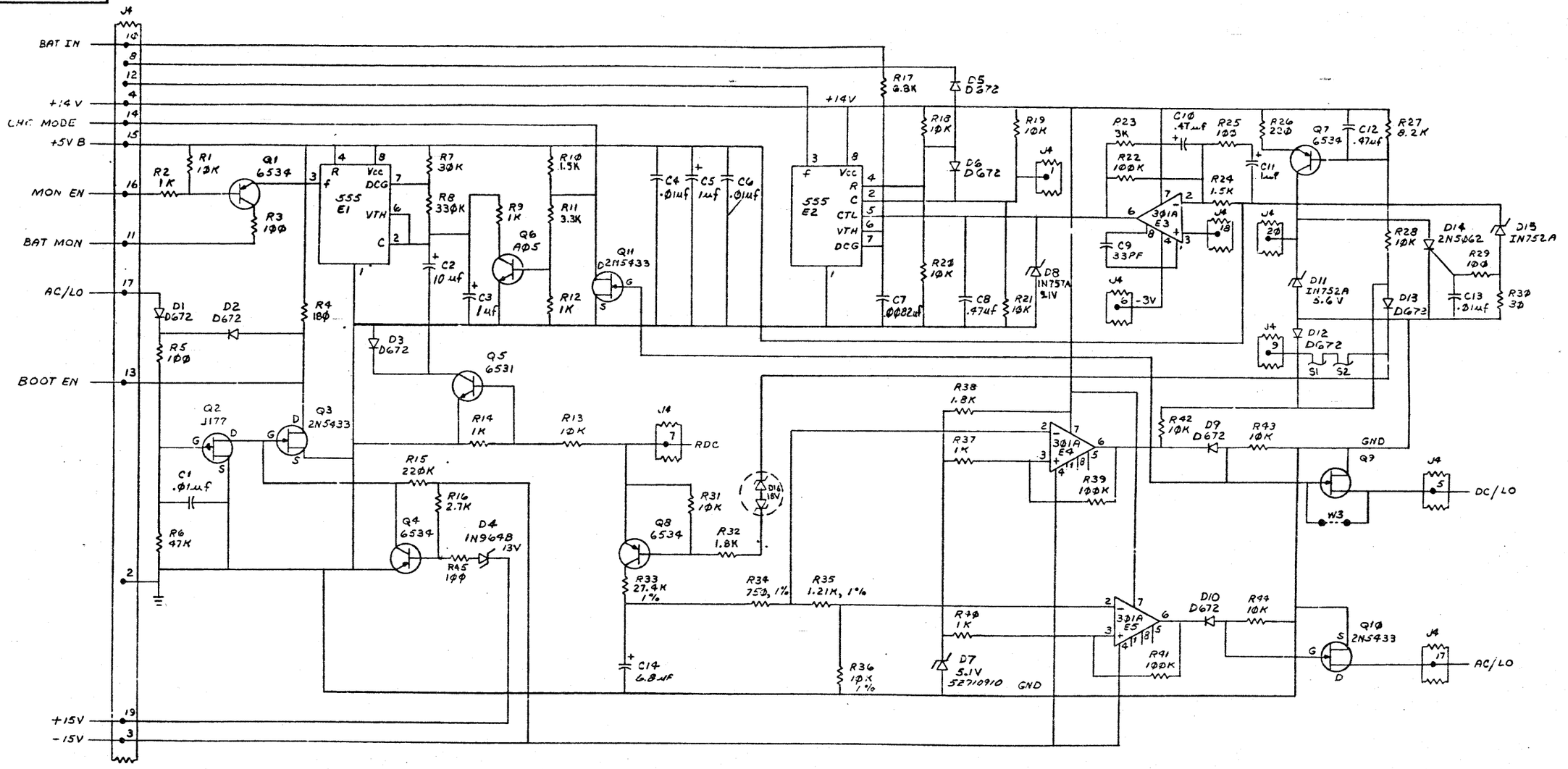

NOTES:

~~1. H785 ASY OPERATION REMOVE JUMPER W2.~~
~~2. H785C ASY OPERATION REMOVE JUMPER W1.~~
~~W3 IS AN ENGINEERING OPTION TO BE DETERMINED AT A LATER DATE.~~

REVISIONS			
CHK	CHANGE NO.		REV.
	5412385-0000[illegible]		C
	GFDF POTTER		
	5412385-0000[illegible]	E	
	G.POTTER	26 JAN 78	
	5412385-1W005	F	
	W. DAUSHA	6-JAN-82	

DRN.		8-17-76
CHK'D		
ENGR.		
PROJ. ENGR.		
PROD.		
NEXT HIGHER ASSY.		
SCALE		
SHEET	1 OF 1	

FIRST USED ON

digital

TITLE
H785
CONTROL BOARD

SIZE	CODE	NUMBER	REV.
D	CS	5412385-0-1	F

DIST.

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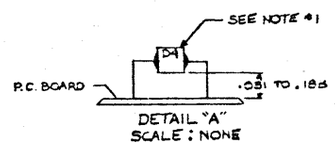
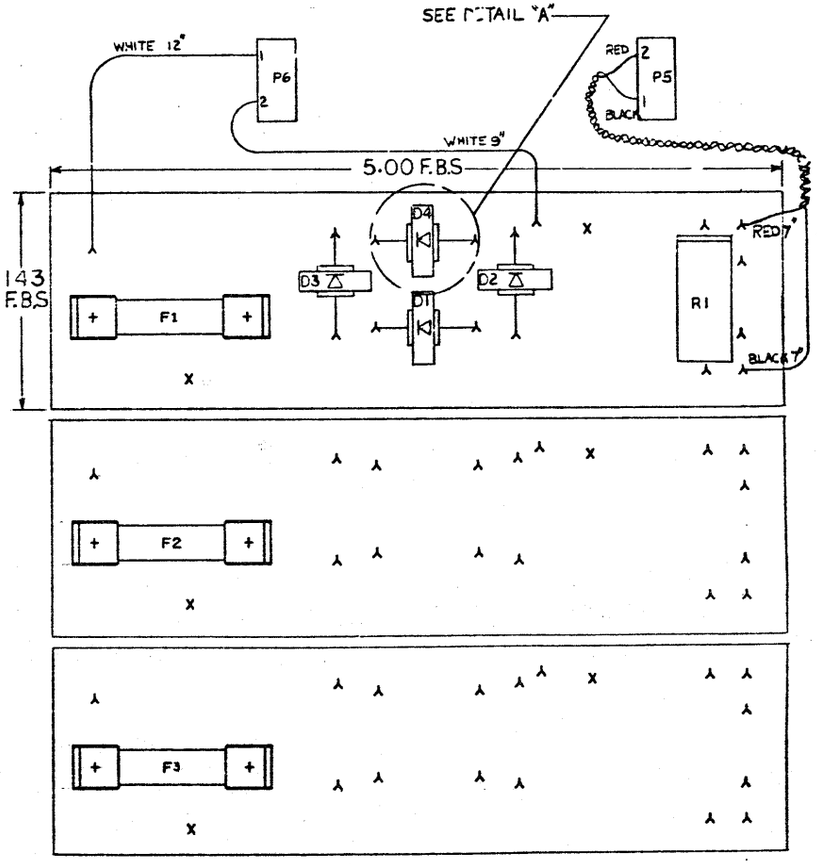
COMPONENT SIDE VIEW



DETAIL "A"
SCALE : NONE



NOTES: DIODES D1 – D4 MUST BE RAISED FROM THE P.C. BOARD .031 TO .188.

CHK	CHANGE NO	REV
	ML004	F
	CARTER	
	W. BAUSHA	

ETCH REV. D - P 2
P.C. DESIGN DATA BASE REV. D

SIGNATURES	DATE
DRN. P. NICHOLLS	11-14-78
CHK'D.	11-30-78
ENG.	1/18/79
PROJ. ENG	1-10-79
PROD. G. Marceau CJES	1/30/79
SCALE 2/1	
SHT. OF 3	
NEXT HIGHER ASSY.	

digital

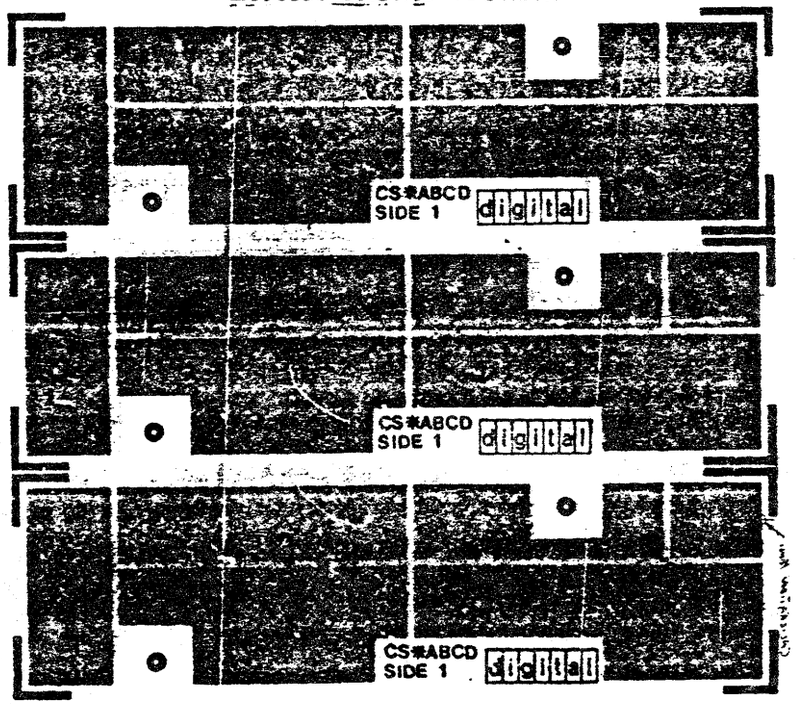
TITLE INPUT RECTIFIER BOARD

SIZE	CODE	NUMBER	REV
D	UA	5412411-0-0	F

MS#

©1979

M360964 5012410D-P2 5412411



REVISIONS	
CHANGE NO	REV

TITLE	SIZE	CODE	NUMBER	REV
INPUT RECTIFIER BOARD	D	UA	5412411-0-0	F
SCALE 2/1	SHEET 2 OF 3	DIST		

D UA 5412411-0-0 F

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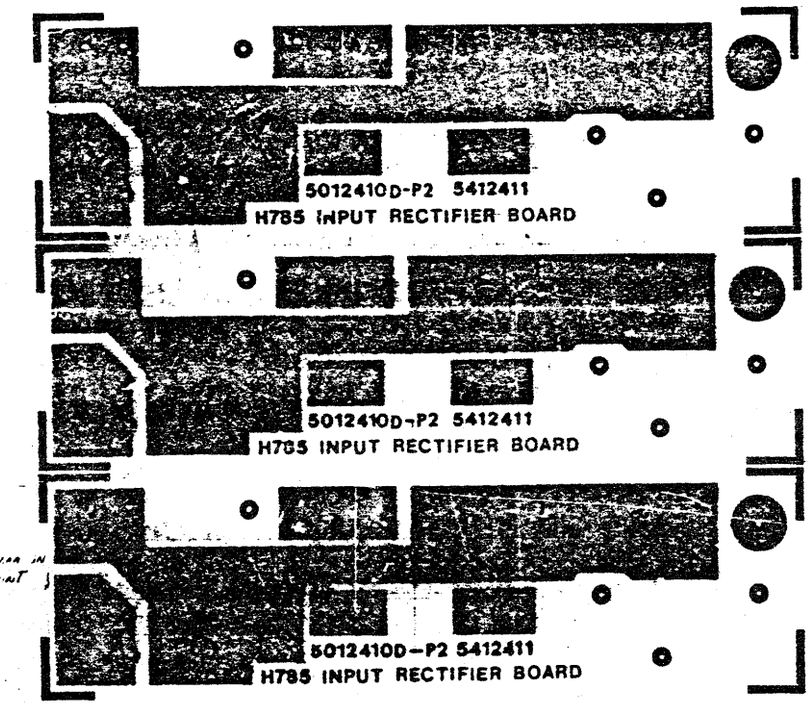

REVISIONS		
DWG	CHANGE NO	REV

TITLE	SIZE	CODE	NUMBER	REV
INPUT RECTIFIER BOARD	D	UA	5412411-0-0	F
SCALE 2/1	SHEET 3 OF 3	DIST		

D UA 5412411-0-0 F

AUTOMATED BY PRTLST.3L(31) P A R T S L I S T SHEET A1 OF A1

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
1	1	D-MD-5412410-0-0	5012410-00	5412411	1	
2	2		1110615-00	MR 752 PIV=200 I=22A A264 SM	4	D1-D4
3	3		1210821-02	MATE-N-LOK 2PIN HOUSING,SKT	2	P5,P6
4	4		1209379-01	MATE-N-LOK PIN 20-14AWG LOOSE	4	
5	5		1302609-00	4.7 K 2W 10% CC	1	R1
6	6		9009000-00	EYELET, ROLLED FLANGE, .121 OD X	2	
7	7		9008390-00	FUSE, REG BLOW, 10.000A, 250V, C	1	
8	8		9007203-00	CLIP, FUSE, WITH STOP, SCREW MOU	2	
9	9		9107360-99	WIRE,STRND,18AWG,IPVC / UL1429	A/R	
10	10		9107430-02	WIRE,STRND,18AWG,IPVC (UL1429)	A/R	

REVISION HISTORY			BASIC PART NO: 5412411											
ENG	ECO NUMBER	REV	SECTION A OF A	DRN: D.BILODEAU	DATE: 09-MAY-79		D	I	G	I	T	A	L	
J.M	5412411-ML004	F	SECTION.VARIATION INDEX [A] 00	CHK'D: F.GAROFALO	DATE: 09-MAY-79	TITLE	PARTS LIST							
			[B]			INPUT RECTIFIER BOARD								
			[C]	DES.ENG: J.MERCURI	DATE: 09-MAY-79									
			[D]											
			[E]			DOCUMENT NUMBER								
			[F]	RESP.ENG.: J.MERCURI	DATE: 09-MAY-79	SIZE	CODE	NUMBER					REV	
			[H]											
			[J]											
			[K]	MFG.ENG.: R.B.KING	DATE: 09-MAY-79	K	PL	5412411-0-DBP					F	
			[L]											
			[M]	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME:							EDIT #	
			[N]	D-UA-5412411-0-0		Z0474F.PLS							3	

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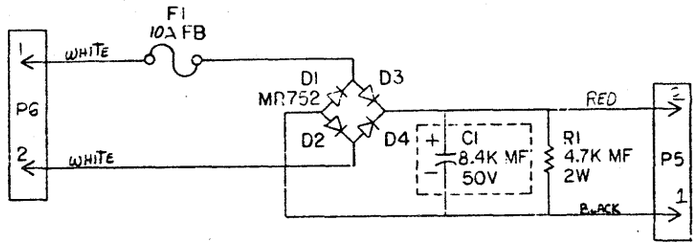
NOTES:

1. C1 WILL BE CONNECTED TO BOARD AT NEXT HIGHER ASSEMBLY.



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

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.

PARTS LIST

ETCH BOARD REV. D

FIRST USED ON OPTION MODEL

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

SEMICONDUCTOR CONVERSION CHART

REV.	REVISIONS	CHANGE NO.	CHK
D	W.F. BAUSHA 6-24-77 5412411-ML004		
C	J.MERCURI 5412411-00003		

DRN M. A. Murphy DATE 7-15-76
CHK [illegible] DATE 7-76
ENG [illegible] DATE 11-5-76
PROJ. ENG. [illegible] DATE 11-5-76
PROG. [illegible] DATE [illegible]
NEXT HIGHER ASSY
SCALE —/—
SHEET 1 OF 1

digital

TITLE
INPUT
RECTIFIER BOARD

SIZE D | CODE CS | NUMBER 5412411-0-1 | REV. D
DIST.

DEC FORM NO. ORD 135 B

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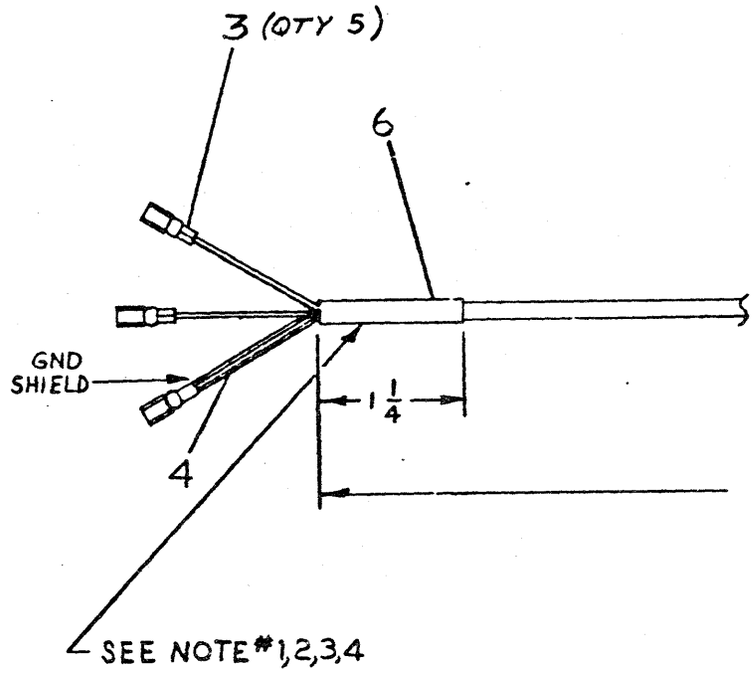
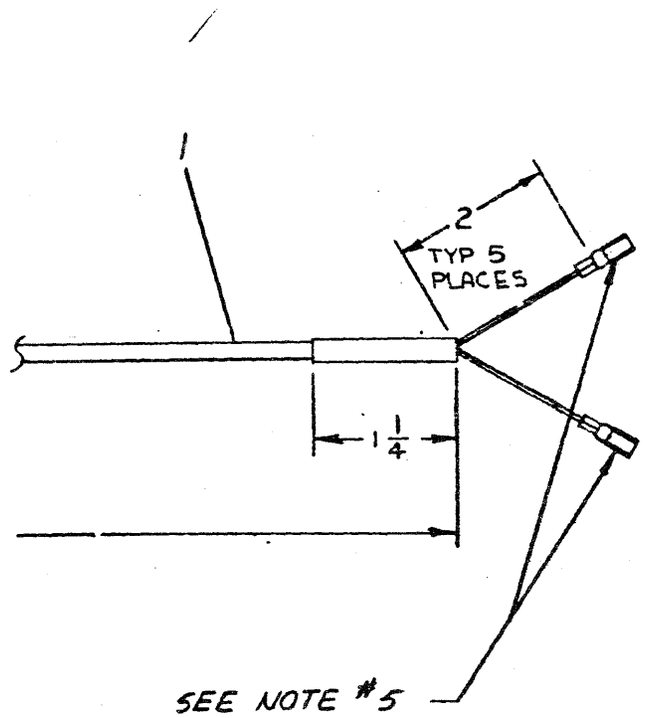
LEGEND		
NUMBER	DIM "X"	USED ON
7011413-3F	3FT 6IN ± 1IN	BAII-L OR K
7011413-7	7FT ± 2 IN	H9280
7011413-10	10FT 0IN ± 1 IN	1104/34-TA

NOTES:

1. AFTER STRIPING OUTSIDE COVERING (1-1/4 IN) FOLD BACK THE GROUND WIRE (BARE ONE) AND REMOVE THE WRAPPER.
2. COVER THE FOLDED BACK BARE WIRE WITH ITEM 6 AND SHRINK (ON BOTH ENDS).
3. ADD ITEM #4 (CLEAR TUBING) OVER ITEM #1 (SHIELD) ON ONE END.
4. STAKE ITEM #3 (5 PLACES) ONTO ITEM #1
5. ADD ITEM #5 TO COVER THE TWO MALE PINS INDICATED FOR VARIATION 3F ONLY.





CAUTION: OFF SHEET PARTS LIST EXIST SEE K-PL-7011413-0-DBP

ITEM NO.	QTY.	DESCRIPTION	PART NO.
5	A/R	TUBING, SHRINK BLK .250 ID	9107253-00
4	A/R	CLEAR TUBING	9107278-11
3	5	TERMINAL LUG FASTON (RED)	9007978-00
2	A/R	TUBING, SHRINK WHT 3/32	9107254-09
1	A/R	WIRE, SHIELDED 22 AWG	9107703

PARTS LIST

REVISIONS			
CHK	CHANGE NO.	REV.	
RB	7011413-00001	A	R BARRY 9-2-75
RB	7011413-00002	B	R. BARRY 11-25-75
D.C.	7011413-00003	C	R. BARRY 16 AUG 76
D.C.	7011413-00004	D	D. BARRY 23 SEPT 76
P.C.	7011413-TW005	E	E. CROCKER 31 JAN 79
P.C.	7011413-TW006	F	E. CROCKER 11 SEPT 80
	7011413-ML007	H	D. ELLISON 30-JAN-84

FIRST USED ON OPTION/MODEL	
SEE LEGEND	

DIMENSIONAL TOLERANCE
DIMENSIONS ARE ~~MILLIMETERS~~ INCHES
UNLESS OTHERWISE SPECIFIED

MILLIMETERS	INCHES	ANGLES
XXX = ±0.76	.XXX = ±.005	±0° 30'
XX = ±0.38	.XX = ±.02	
X = ±2	X = ±.1	

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓

MATERIAL SEE PARTS LIST

FINISH —

DRN. J. Phelan	DATE 6/11/75	digital
CHK'D. D. Ward	DATE 6/13/75	
ENG. R Barry	DATE 6/14/75	TITLE CABLE, EXTERNAL BOOT, M9301
PROJ. ENG. R Barry	DATE 6/14/75	
PROD. [illegible]	DATE 6/14/75	

NEXT HIGHER ASSY. —

SCALE NONE
SHEET 1 OF 1

SIZE	CODE	NUMBER	REV.
C	IA	7011413-0-0	H

DIST.

NUMBER 7011413-0-0 REV. H
SIZE C CODE IA
SCALE B

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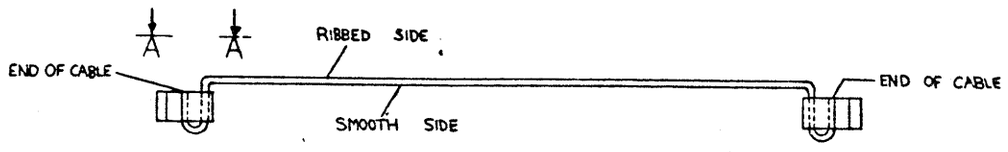

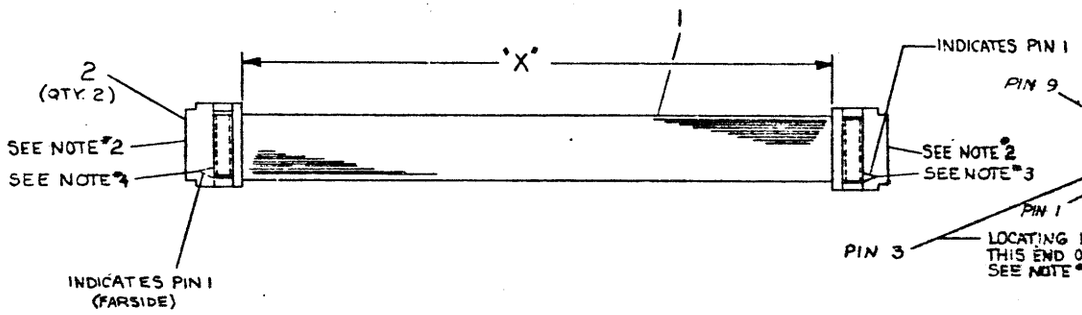

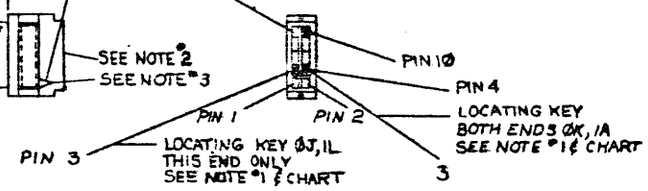

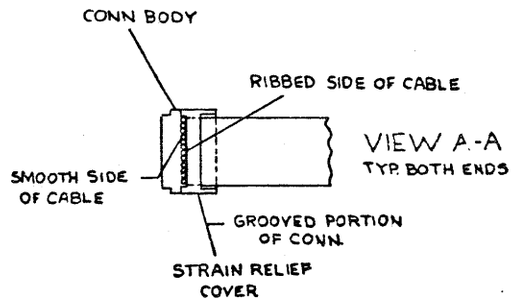

LEGEND			
NUMBER	DIM "X" VARIATION	USED ON	KEY PIN
7011411-ØJ	8IN ±.5 IN.	BAII-L ORK	10 ONE END
7011411-JK	9 IN ±.5 IN.	LSI-11	4 BOTH ENDS
7011411-1D	1FT-4IN±1IN.	KYII-LB	
7011411-2D	2FT-4IN±1IN.	BAII-F/DD11PF	10 ONE END
7011411-ØH	7IN ± .5IN.	H79Ø,1,2,3	
7011411-1J	1FT-8IN±1IN.	1134/34-TA	
7011411-1L	1FT 10IN±1IN	BAII-L, H777	PIN 1 1 END
7011411-1A	1FT.-1IN±1IN.	H787	4 BOTH ENDS
7011411-3J	3FT-8IN±1IN.	BAII-K, H785	
7011411-2J	2FT.-8IN±1IN.	BAIIK-H785	NO KEY
7011411-5F	5FT.-6IN±1IN.	1160	8 ONE END
7011411-12	12FT±3IN.	KA57Ø	
7011411-7	7FT ±2IN	11780	
7011411-1C	1FT-3IN±1IN	VT103	SEE NOTES 3 AND 4
7011411-2	2FT ±1IN	VT103	SEE NOTES 3 AND 4
7011411-2E	5IN ±.5IN	NEBULA	9 BOTH ENDS
7011411-3D	3FT-4IN±1IN	NEBULA	3 BOTH ENDS
7011411-ØF	8IN ±.5IN	11/24	PIN 3 ONE END PIN 6 ONE END
7011411-1B	1FT-2IN±1IN.	H333-A/DPM50	4 BOTH ENDS
7011411-YA	2FT.±1 IN.	NEBULA	PIN 5 BOTH ENDS
7011411-01	12 IN.±1 IN.	NEBULA	PIN 10 BOTH ENDS

NOTES:
1. INSERT KEY IN PROPER CONNECTOR PIN AND BREAK OFF TAB.
2. FOR ITEM (2) DRAWING IS SHOWING 3M CONNECTOR.
3. FOR -1C AND -2 VARIATIONS, KEY PIN 6.
4. FOR -1C AND -2 VARIATIONS, KEY PIN 5.

1	TIE, CABLE	9007031	5
1	LABEL, CABLE IDENT.	9009532	4
A/R	KEY	9009707	3
2	CONN. CRIMP	1211206-02	2
A/R	CABLE, 10 CONDUCT	9107747-02	1
	DESCRIPTION	DWG. PART NO.	ITEM NO.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

ANGLES ±0° 30'	CLASS OF ACCURACY	NOMINAL DIMENSION RANGE INCHES					
		OVER 0 TO 0.3	OVER 0.3 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
SURFACE QUALITY (IN MICROINCHES)	(CHECK ONE) MEDIUM	±.004	±.008	±.012	±.016	±.024	±.06
	PREFERRED	±.002	±.008	±.008	±.012	±.016	±.04

QUANTITY & VARIATION

7011411-0-0

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL SEE PARTS LIST

FINISH

DRN	M. BAPTIST	5-20-75
CHK'D	D. HEALY	6-13-75
ENG.	R. BARRY	6-18-75
PROJ. ENG.	R. BARRY	6-18-75
PROD.	R. PETERSEN	6-19-75
NEXT HIGHER ASSY.		
SCALE	NONE	
SHEET	1 OF 1	

FIRST USED ON: SEE LEGEND

digital

TITLE: CABLE CONSOLE BACKPLANE

SIZE D | CODE 1A | NUMBER 7011411-0-0 | REV. W

DIST.

TW 1

REVISIONS			
CHK	CHANGE NO.		REV.
	7011411-00011	M	
REDRAWN & REVISED SIZE A TITLE 26 MAY 77			
K. DUGGAN	7011411-00012	N	
T. ANTON	7011411-1W013	P	
T. SCHANIN	7011411-1W015	S	
D. BARRY	7011411-1W016	T	
H.W. SILVER	7011411-1W017	U	
M. BANGERT	7011411-1W018	V	
RAY GRUDA	7011411-1W019	W	
R. DAY			

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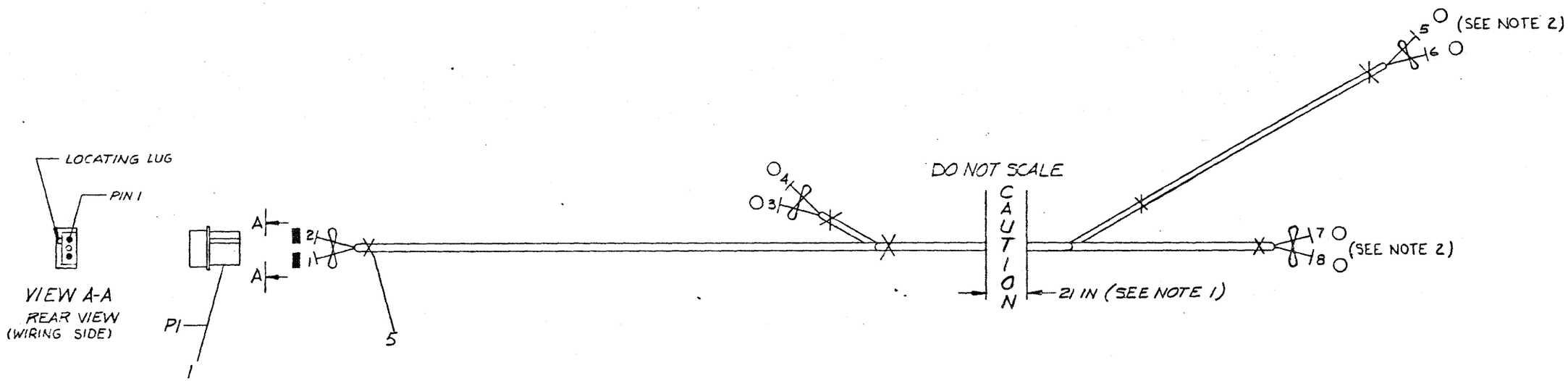
WIRE TABLE

ITEM NO	DESCRIPTION AWG	COLOR	FROM POINT	FROM CONNECTION	FROM WITH	TO POINT	TO CONNECTION	TO WITH	SIGNAL
5	18	BLU	2	P1-1	2	7	—	4	
	TWP	BLK	1	P1-3	2	8	—	4	
6	18	RED	3	—	4	6	—	4	+5
	TWP	BLK	4	—	4	5	—	4	GND

NOTES:

1. APPLY TIE WRAP (ITEM 5) EVERY 4 IN.
2. ADD ITEM 7 TO COVER MALE PINS AT POINTS 3 THRU 8.



DO NOT REDUCE

SCALE

0 IN 6 IN 12 IN

FOR MANUFACTURING PURPOSES ONLY

	A/R	TUBING, SHRINK BLK .250ID	9107253-00	7
	A/R	WIRE 18 AWG TWP BLK/RED	9107430-02	6
	A/R	WIRE 18 AWG TWP BLK/BLU	9107430-06	5
○	6	CONN SOLDERLESS (RED)	90079 10-00	4
X	12	TIE WRAP 1M	9007031	3
■	2	PIN MALE	1209378-01	2
	1	HOUSING, 3 PIN	12 09351-03	1
SYMBOL		DESCRIPTION	DWG./PART NO.	ITEM NO.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

ANGLES ±0° 30' / CLASS OF ACCURACY	NOMINAL DIMENSION RANGE INCHES: OVER 0 TO .12	OVER .12 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
SURFACE QUALITY IN MICROINCHES (CHECK ONE) MEDIUM	±.004	±.008	±.012	±.018	±.024	±.04
PREFERRED	±.012	±.018	±.029	±.04	±.063	±.01

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL SEE PARTS LIST

FINISH

DRN J. Serbia 11-74-3
CHK'D S. Hall 11/3/75
ENG. P. Zumm NOV 3, 75
PROJ. ENG. R. Rau NOV 3, 75
PROD.
NEXT HIGHER ASSY.
E-C-A-1134-3-0
SCALE
SHEET 1 OF 1

FIRST USED ON 1134

digital

TITLE FDP1104/1134 CONSOLE POWER HARNESS

SIZE D | CODE 1A | NUMBER 7011992-0-0 | REV. B

DIST.

REVISIONS CHK	CHANGE NO.	REV.
MG	7011992-TW001	A
WL Cwall	11 JUL 79	
J. SERBIA		
M	7011992-TW002	B
W. Douglas	19 DEC 80	
BRUCE CRAMM		
Bruce Cramm	30 DEC 80	

DEC FORM NO. DRD 100-C

TW

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY	D. HEALY	CHECKED	D. HEALY	SECTION	1
DATE	15 DEC 76	DATE	16 DEC 76		
ENG	[signature]	PROD	[signature]	ISSUED SECT.	1
DATE	17 JAN 77	DATE	1/17/77		

ITEM NO.	DWG NO./ PART NO.	DESCRIPTION	QUANTITY/VARIATION											
			DC, DD, LC, LD	HC, HD, MC, MD	DH, DJ, LH, LJ	HH, HJ, MH, MJ	DE, DF, LE, LF	HE, HF, ME, MF	EM, EN	JC, JD	JH, JJ	JE, JF		
	MPØØ19Ø	1134A FIELD MAINTENANCE PRINT/SET	1	1	1	1	1	1	1	1	1	1		
	EK-1134A-OP	1134A SYSTEM USERS MANUAL	1	1	1	1	1	1	1	1	1	1		
	EK-KD11-EA-TM	KD11-EA PROCESSOR MANUAL *	1	1	1	1	1	1	1	1	1	1		
	EK-MS11E-MM	MS11-E-J MOS MEMORY MAINTENANCE MANUAL *	1	-	1	-	1	-	-	-	-	-		
	EK-MM11D-TM	MM11D/DP CORE MEMORY MANUAL *	-	1	-	1	-	1	-	-	-	-		
	EK-MS11K-MM	MS11-K MOS MEMORY MAINTENANCE MANUAL *	-	-	-	-	-	-	1	-	-	-		
	EK-BA11K-MM	BA11-K MAINTENANCE MANUAL *	-	-	1	1	1	1	1	-	1	1		
	EK-BA11L-MM	BA11-L MAINTENANCE MANUAL *	1	1	-	-	-	-	-	1	-	-		
	EK-M93Ø1-TM	M93Ø1 MAINTENANCE MANUAL * NOTE 1	1	1	1	1	1	1	1	1	1	1		
	EK-M785Ø-MM	M785Ø MAINTENANCE MANUAL *	1	1	1	1	1	1	1	1	1	1		
	EK-DL11W-MM	DL11-W MAINTENANCE MANUAL *	-	-	-	-	-	1	1	-	-	1		
	EK-KY11-LB-MM	KY11-LB MAINTENANCE MANUAL *	-	-	-	-	1	1	-	-	-	1		
	ZJØ1Ø-RB	SOFTWARE LIBRARY KIT (PAPER TAPE)	1	1	1	1	1	1	1	1	1	1		
	1211825	CHASSIS TRACKS AND MOUNTING HARDWARE	1	1	1	1	1	1	1	1	1	1		
	7010059	SHIPPING BRACKET	1	1	1	1	1	1	1	1	1	1		
	EK-MM11YP-TM	MM11YP MAINTENANCE MANUAL	-	-	-	-	-	-	-	1	1	1		
	EK-M9312-TM	M9312 MAINT. MANUAL * NOTE 1	1	1	1	1	1	1	1	1	1	1		
	23248F1	ROM, CONSOLE EMULATOR NOTE 2	1	1	1	1	1	1	1	1	1	1		
	NOTE 1. MANUAL	SHIPPED TO BE CONSISTENT WITH MODULE												
	SHIPPED	IN MACHINE.												
	2. CONSOLE	EMULATOR ROM IS TO BE SHIPPED ONLY IF M9312 IS SHIPPED.												
		* Do not ship to OEM. customers												

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.	ECO NO.
1134A SHIPPING LIST	NONE	A	PL	1134A-Ø-4	C	1134A-C00C9
	SHEET 1 OF 1	DIST.				

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

TW

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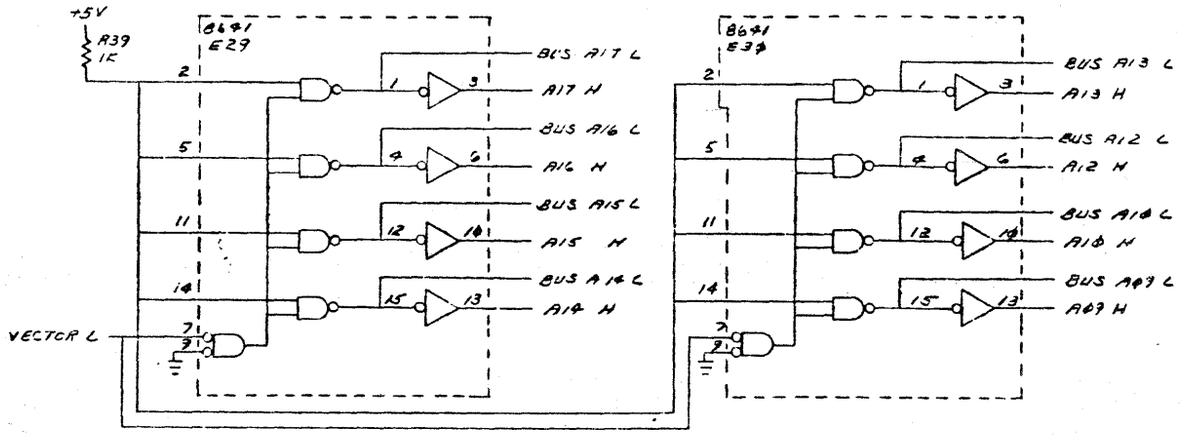

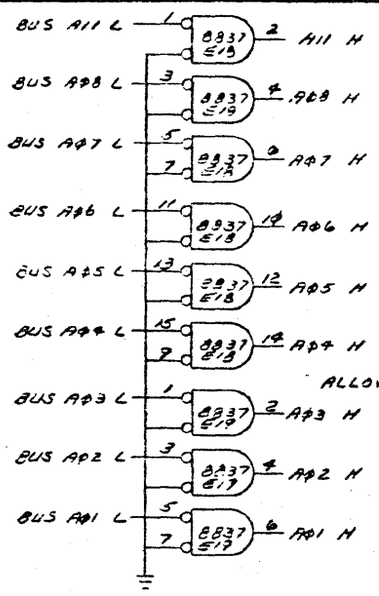

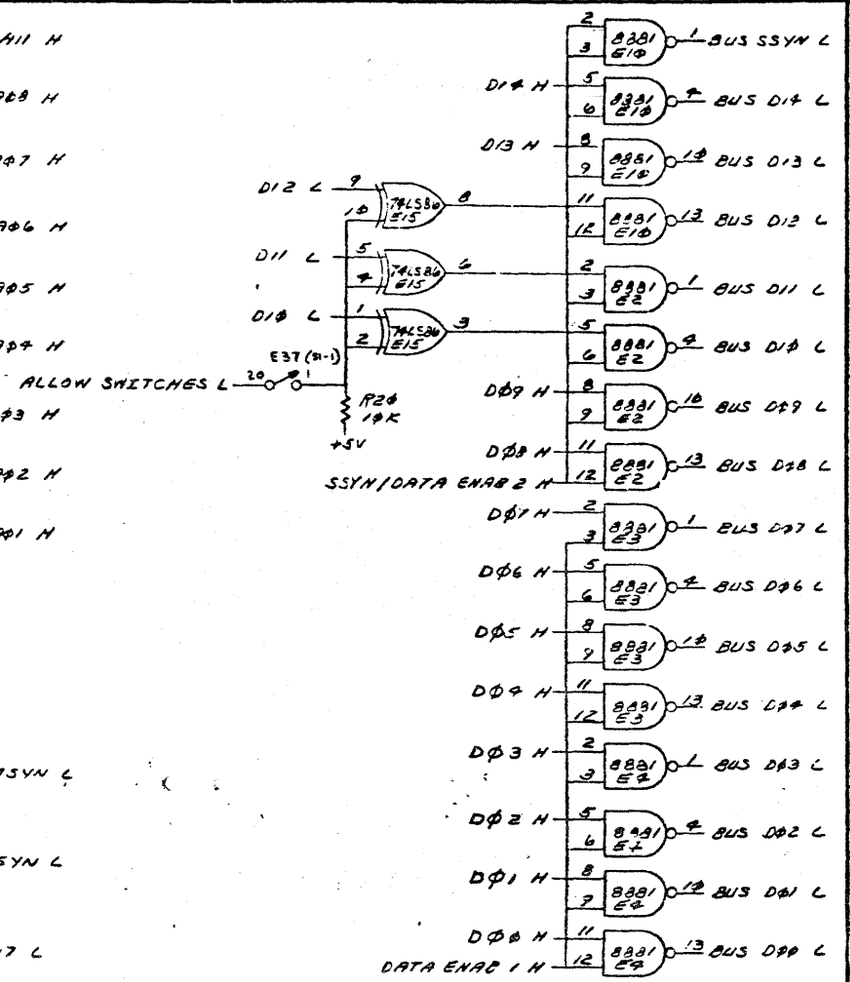

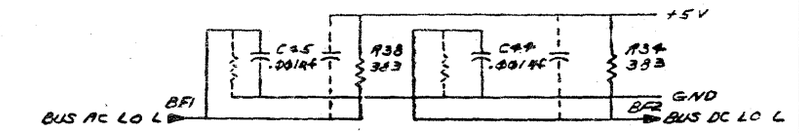

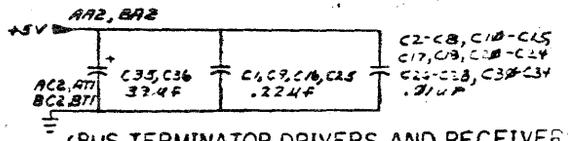

(BUS TERMINATOR, DRIVERS AND RECEIVERS)

REVISIONS			
CHK	CHANGE NO.	REV.	
	M9312-00001	B	B. GIST
	M9312-TW0002	C	B. GIST

DRN.		12-5-77
CHK'D		12-30-77
ENG.		12-30-77
PROJ. ENG.		1-26-78
PROD		1-26-78
NEXT HIGHER ASSY.		
SCALE		
SHEET	1 OF 4	

FIRST USED ON

digital

TITLE: BOOTSTRAP TERMINATOR

SIZE	CODE	NUMBER	REV.
D	CS	M9312-0-1	C

DIST.

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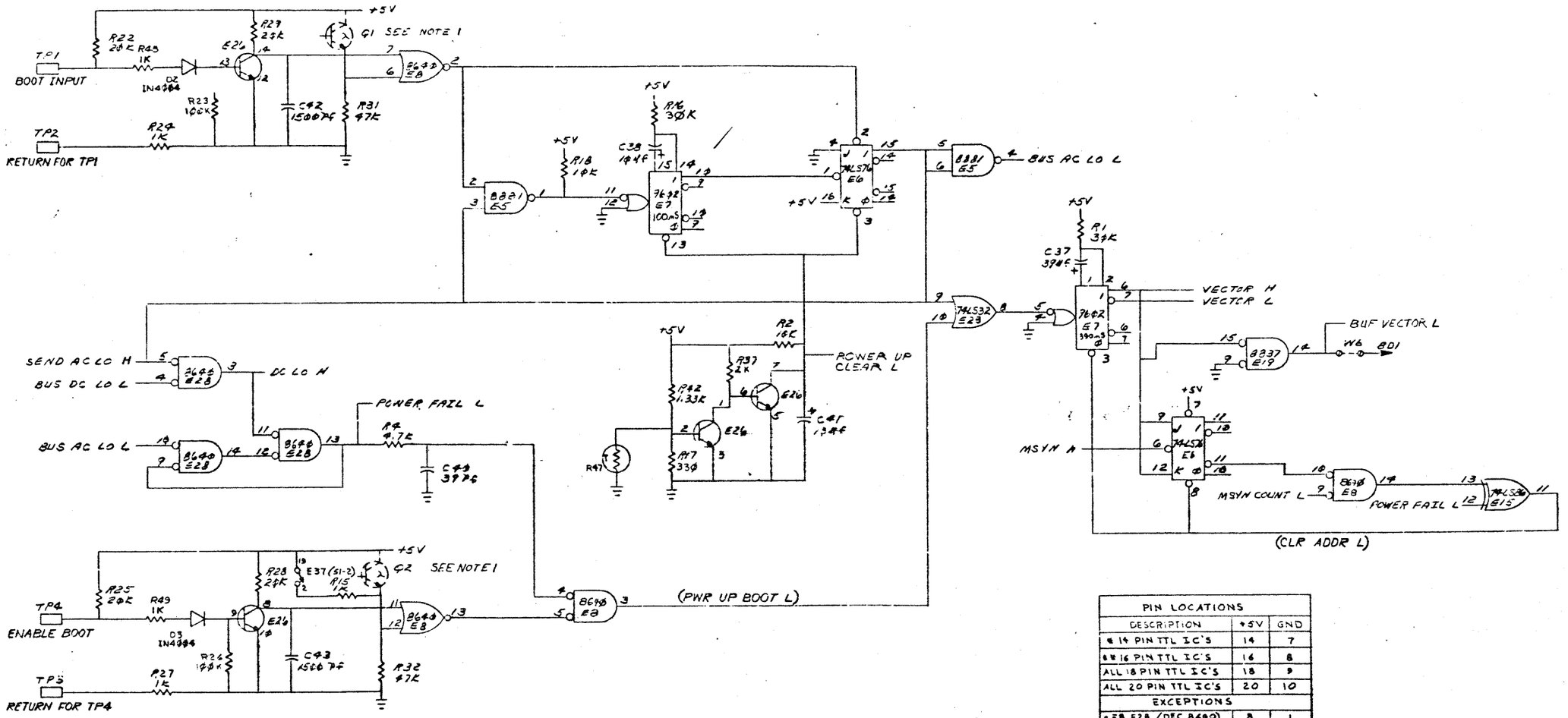

PIN LOCATIONS		
DESCRIPTION	+5V	GND
* 14 PIN TTL IC'S	14	7
** 16 PIN TTL IC'S	16	8
ALL 18 PIN TTL IC'S	18	9
ALL 20 PIN TTL IC'S	20	10
EXCEPTIONS		
* E8, E28 (DEC 8640)	8	1
** E6 (74LS74)	5	13

NOTES: 1. PHOTO TRANSISTORS Q1 AND Q2 DO NOT APPEAR ON THE PARTS LIST, THEY ARE INTENDED FOR FUTURE APPLICATIONS.

REVISIONS		
CHK	CHANGE NO.	REV.

(SWITCH FILTERS AND AC LO GENERATION)

TITLE	SIZE	CODE	NUMBER	REV.
BOOTSTRAP TERMINATOR	D	CS	M9312-0-1	C
SCALE	SHEET 2 OF 4	DIST.		

DEC M9312-0-1 REV C

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BYTE ADR 0 H
BYTE ADR 1 H
A01 H
A02 H
A03 H
A04 H
A05 H
A06 H
A07 H
A08 H

HI-LO ROM DECODER

A17-09	LO ROM ENA H	BOOT SEL H	LOW ROM L	HIGH ROM H
765 XXX	H	H	L	L
765 XXX	L	L	H	L
773 XXX	X	H	H	H
DEFAULT	X	L	H	L

ALLOW SWITCHES ROM

A08-01 (OCTAL)	HIGH ROM H	ENABLE ROM L	W9, W12	W11, W12	ALLOW SWITCHES L	ALLOW SWITCHES H
XXX	X	H	X	X	H	H
XXX	L	L	IN	OUT	H	L
XXX	L	L	OUT	IN	H	L
024	H	L	IN	OUT	L	H
DEFAULT	X	L	IN	OUT	H	L
024	H	L	OUT	IN	L	H
DEFAULT	X	L	OUT	IN	H	L

ROM DATA LATCH H

R43 4.7K +5V
R44 4.7K
R45 4.7K
R46 4.7K

ALLOW SWITCHES H
ALLOW SWITCHES L
+5V
R14 1K
R19 1K
R13 10K
W8
W9
W10
W11
W12
BOOT 1 L
BOOT 2 L
BOOT 3 L
BOOT 4 L
BOOT SEL H
LOW ROM L
HIGH ROM H
LO ROM ENA H
DATA ENAB 1 H
ENABLE ROM L
ENABLE HIGH ROM L

E1 HI-LO ROM DECODER 74LS138 E31 1K x 4
E22 74LS155 ST8A ST8B
E21 ALLOW SWITCHES ROM 512 x 4
E37(SI) 74LS240 E13
C23 74LS32
F1 ROM E20 1K x 4
A9 ROM E35 512 x 4
A9 ROM E34 512 x 4
A9 ROM E33 512 x 4
A9 ROM E32 512 x 4
CLE 74LS374 E11
CLE 74LS374 E12
ENA

D03 H D02 H D01 H D00 H D07 H D06 H D05 H D04 H
D11 L D10 L D09 H D08 H D15 H D14 H D13 H D12 L

A08	A07	ENABLE ROM L	HIGH ROM H	BOOT 1 L	BOOT 2 L	BOOT 3 L	BOOT 4 L
L	L	L	H	L	H	H	H
L	H	L	H	H	L	H	H
H	L	L	H	H	H	L	H
H	H	L	H	H	H	H	L
X	X	X	L	H	H	H	H
X	X	H	X	H	H	H	H

(ADDRESS DECODE AND BOOT ROMS)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
BOOTSTRAP TERMINATOR	D	CS	M9312-0-1	C
SCALE	SHEET 3 OF 4	DIST.		

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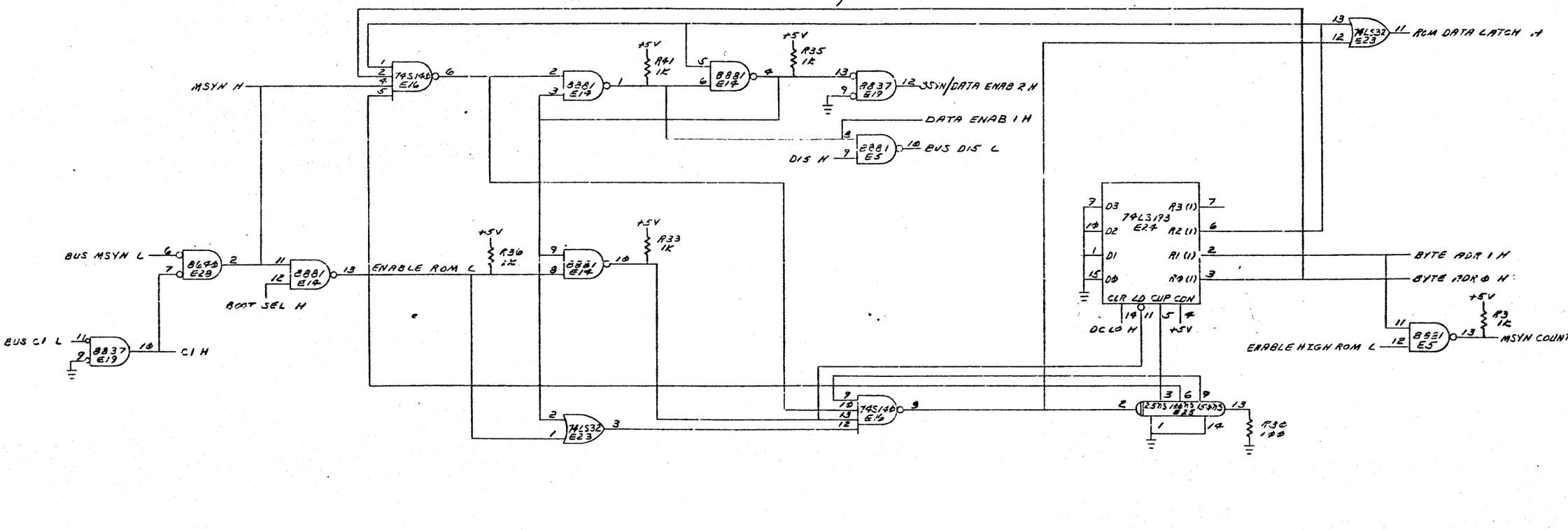

REVISIONS		
CHK	CHANGE NO.	REV.

(TIMING AND CONTROL)

TITLE	SIZE	CODE	NUMBER	REV.
BOOTSTRAP TERMINATOR	D	CS	M9312-0-1	C
SCALE	SHEET 4 OF 4	DIST.		

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FIELD MAINTENANCE PRINT SET

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TABLE OF CONTENTS

B-TC-MS11-L-1	FIELD MAINTENANCE PRINT SET
B-DD-MS11-L	DRAWING DIRECTORY (MS11-L)
A-PL-MS11-L-Ø	PARTS LIST (MS11-L)
D-BD-MS11-L-4	MS11-L BLOCK DIAGRAM
D-FD-MS11-L-5	MS11-L FLOW DIAGRAM
D-TD-MS11-L-6	MS11-L TIMING DIAGRAM
B-DD-M7891-Ø	DRAWING DIRECTORY (M7891)
K-PL-M7891-DC-Ø	PARTS LIST (M7891) (SEE NOTE 1)
D-UA-M7891-Ø-Ø	UNIT ASSEMBLY(M7891)(SHTS 2,6, ONLY)
D-CS-M7891-Ø-1	CIRCUIT SCHEMATIC (M7891)
MPØØ572	MS11-L FIELD MAINTENANCE PRINT SET
D-MD-5013399-0-0	DRILL AND ETCH DRAWING (SHTS 2+5 ONLY)

NOTE 1: THIS PARTS LIST IS A SAMPLE ONLY, FOR THE PARTS LIST OF A PARTICULAR VARIATION SEE B-DD-M7891-Ø.

UNIT VARIATIONS COVERED BY THIS PRINT SET
MS11-LA
MS11-LB
MS11-LC
MS11-LD

MS11-L

Field Maintenance Print Set

Digital Equipment Corporation

MPØØ672

REVISIONS		
REV.	CHG. NO.	DATE
A	MS11-L-ML001 Ron Given	1-20 2-12-82

USED ON OPTION/MODEL	
PDP 11/34	

SHEET I OF 1

DRN.	E.DEVRIES	DATE
CHK'D	R.V. Mannon	DATE 9/26/78
PROJ. ENG.	R. Given	DATE 9-28-78
FIELD SERV.	R.W. Richard	DATE 9/28/78

digital

TITLE: MS11-L (128K X 18) MOS MEMORY SYSTEM

SIZE	CODE	NUMBER	REV.
B	TC	MS11-L-1	A

DIST.

EN-01124-18-N078-(127)

DRB 124

MLZ

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DRAWING DIRECTORY

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NOTE: FOR FIELD MAINTENANCE PRINT SET
SEE B-TC-MS11-L-1

UNIT VARIATIONS

VAR	TITLE
MS11-LA	32K X 18 MOS MEMORY SYSTEM
MS11-LB	64K X 18 MOS MEMORY SYSTEM
MS11-LC	96K X 18 MOS MEMORY SYSTEM
MS11-LD	128K X 18 MOS MEMORY SYSTEM

REVISIONS

REV.	CHANGE NO.	CHK
	—	

USED ON OPTION/MODEL: PDP 11/34

SHEET 1 OF 3

DRN. E.DEVRIES	DATE	
CHK'D. R. Memois	DATE 9/26/78	
PROJ. ENG. R. Given	DATE 9-28-78	
PROD. Bob Schaefer	DATE 9/21/78	

TITLE: DRAWING DIRECTORY
MS11 (128K X 18)
MOS MEMORY SYSTEM

digital

SIZE	CODE	NUMBER	REV
B	DD	MS11-L	*

DIST.

DRB 106A

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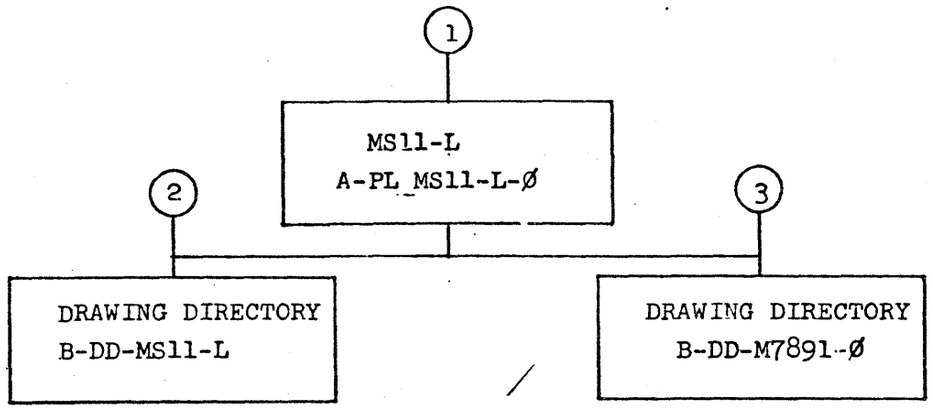

TITLE	SIZE	CODE	NUMBER	REV
DRAWING DIRECTORY MS11 (128K X 18) MOS MEMORY SYSTEM	B	DD	MS11-L	*

SHEET 2 OF 3

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
	MPØØ672	FIELD MAINTENANCE PRINT SET (MP)	-
	B-TC-MS11-L-1	FIELD MAINTENANCE PRINT SET (TC)	-
1	A-PL-MS11-L-Ø	PARTS LIST (MS11-L)	E/M
	D-BD-MS11-L-4	MS11-L BLOCK DIAGRAM	E
	D-FD-MS11-L-5	MS11-L FLOW DIAGRAM	E
	D-TD-MS11-L-6	MS11-L TIMING DIAGRAM	E
	A-SP-MS11-L-3	MS11-L SYSTEM SPECIFICATION	E/M
	A-PL-MS11-L-7	MS11-L SHIPPING LIST	-
	EK-MS11L-UG-ØØ1	MS11-L MOS MEMORY USER'S GUIDE	E/M
	EK-MS11L-TM-ØØ1	MS11-L MOS MEMORY TECHNICAL MANUAL	E/M
2	B-DD-MS11-L	DRAWING DIRECTORY MS11-L MOS MEMORY SYSTEM	E/M
3	B-DD-M7891-Ø	DRAWING DIRECTORY (M7891) MODULE	E/M

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE

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

digital

TITLE	SHEET	SIZE	CODE	NUMBER	REV
DRAWING DIRECTORY MS11-L (128K X 18) MOS MEMORY SYSTEM	3 OF 3	B	DD	MS11-L	*

LP3100A

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY E.DEVRIES DATE	CHECKED R. Marrion DATE 9/26/78	SECTION 1
ENG R. Given DATE 9-28-78	PROD Bob Schaak DATE 9/28/78	ISSUED SECT. 1

ITEM NO.	DWG NO./PART NO.	DESCRIPTION	QUANTITY VARIATION MS11-L
1	D-UA-M7891-Ø-Ø	MS11-L (128KX18)MOS MEMORY SYSTEM	1
2	D-BD-MS11-L-4	MS11-L BLOCK DIAGRAM	REF
3	D-FD-MS11-L-5	MS11-L FLOW DIAGRAM	REF
4	A-SP-MS11-L-3	MS11-L SYSTEM SPECIFICATION	REF
5	D-TD-MS11-L-6	MS11-L TIMING DIAGRAM	REF
6	A-PL-MS11-L-7	MS11-L SHIPPING LIST	REF

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV	ECO NO.
MS11-L (128K X 18) MOS MEMORY SYSTEM	B-DD-MS11-L	A	PL	MS11-L-Ø	*	
	SHEET 1 OF 1	DIST				

DEC FORM
DRA 110

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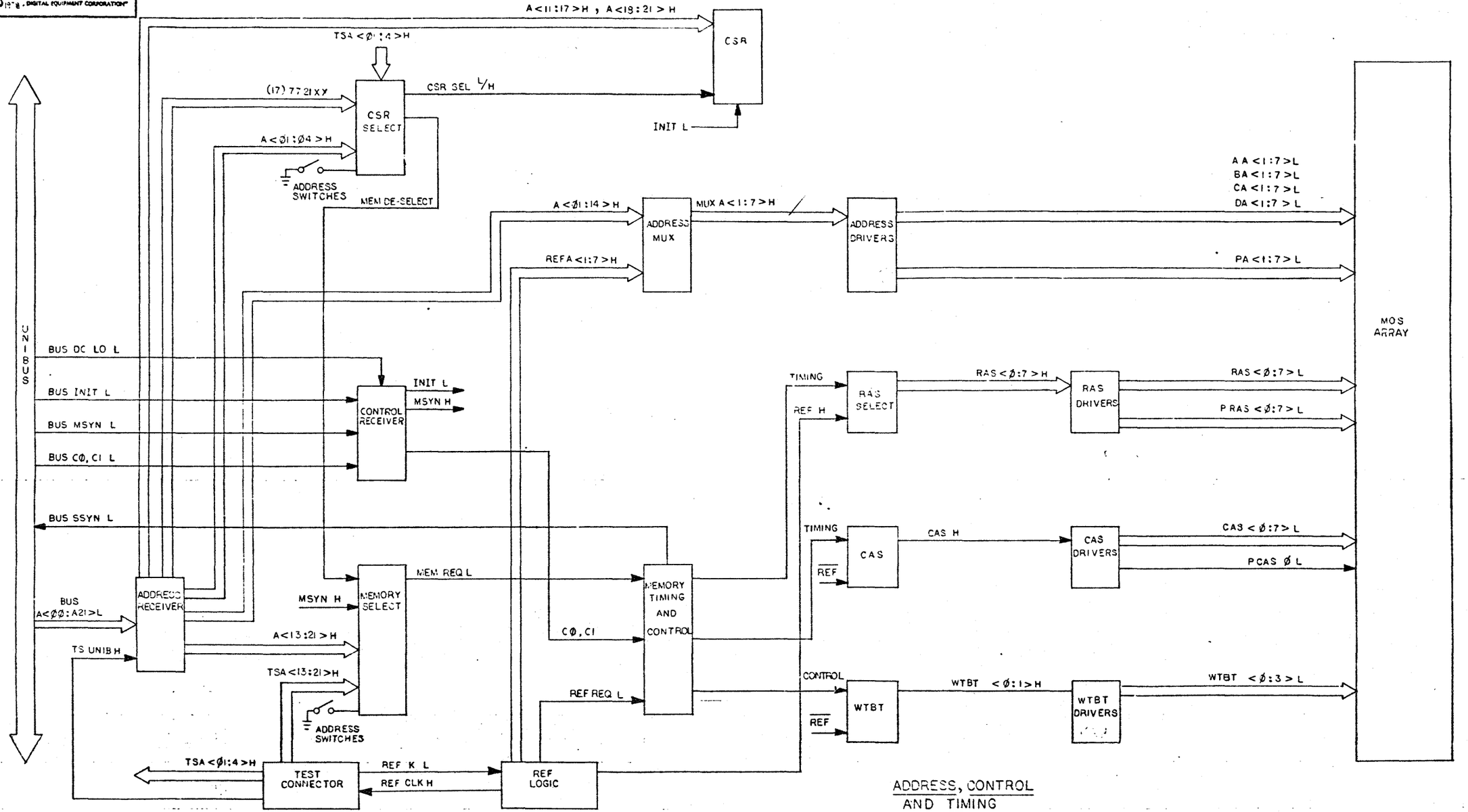

ADDRESS, CONTROL AND TIMING

DRN. E. DeVries	7-AUG-78	FIRST USED ON	digital
CHK'D R. Wilson	7/24/78		
ENG. R. Wilson	9-28-78	TITLE MSII-L BLOCK DIAGRAM	
PROJ. ENG. R. Wilson	9-28-78		
PROD. A. [illegible]	9/11/78		
NEXT HIGHER ASSY.			
B DD MSII-L-0		SIZE D CODE ED NUMBER MSII-L-4	REV. *
SCALE			
SHEET 1 OF 2		DIST.	

REVISIONS: REV. | CHANGE NO. | CHK

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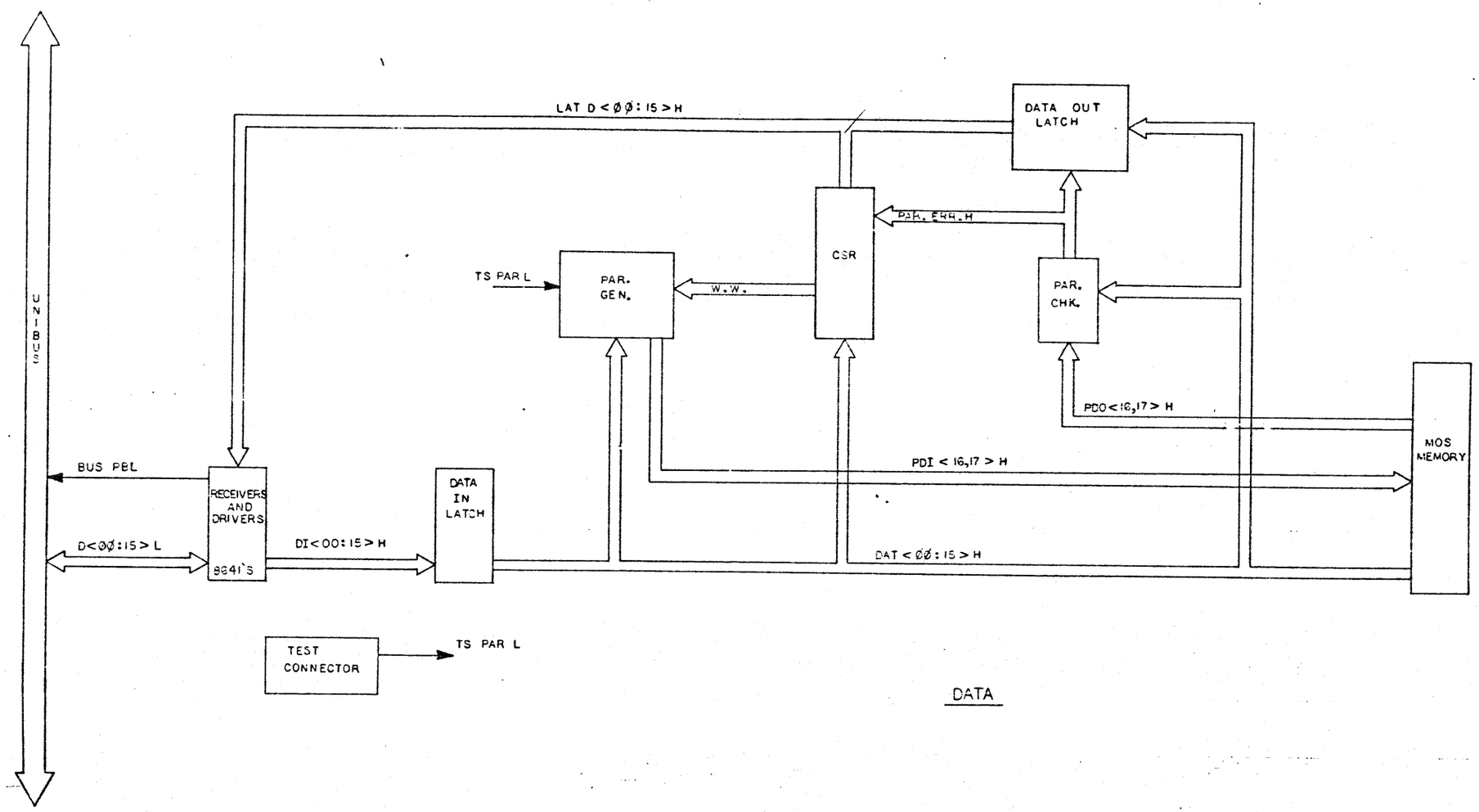

DATA

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
MSII-L BLOCK DIAGRAM	D	BD	MSII-L-4	*
SCALE	SHEET 2 OF 2	DIST.		

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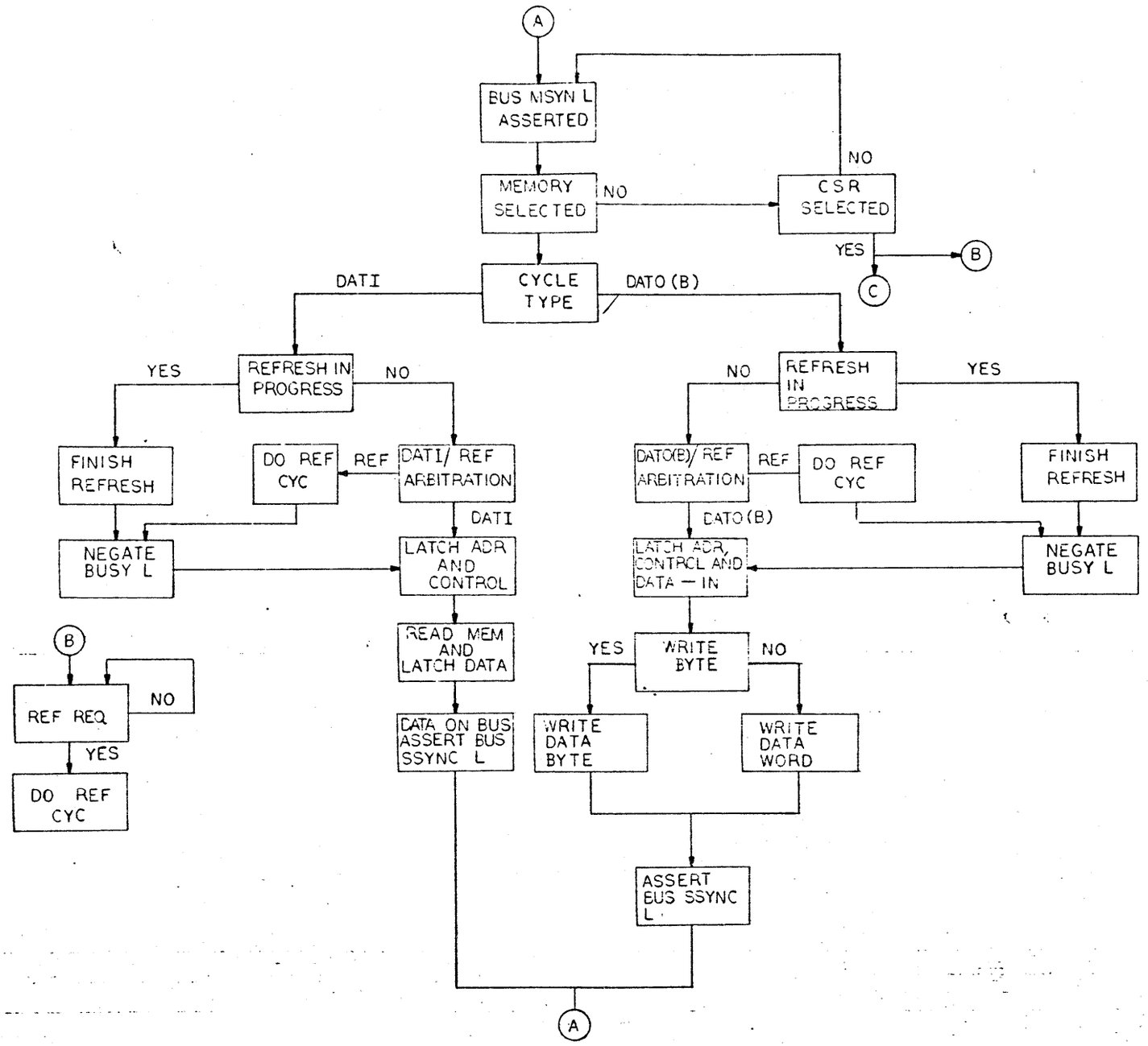

REVISIONS		
REV.	CHANGE NO.	CHK.

DRN. E. Rivera	4-27-78	FIRST USED ON
CHK'D R. Manuel	5/2/78	digital
ENG. R. Sweeney	5-28-78	TITLE
PROJ. ENG. R. Sweeney	5-28-78	MSII-L (DATI/DATO) FLOW DIAGRAM
PROD. [illegible]	6/21/79	
NEXT HIGHER ASSY.		
B-DD-MSII-L		SIZE D · CODE FD · NUMBER MSII-L-5 · REV. *
SCALE		
SHEET 1 OF 2		DIST.

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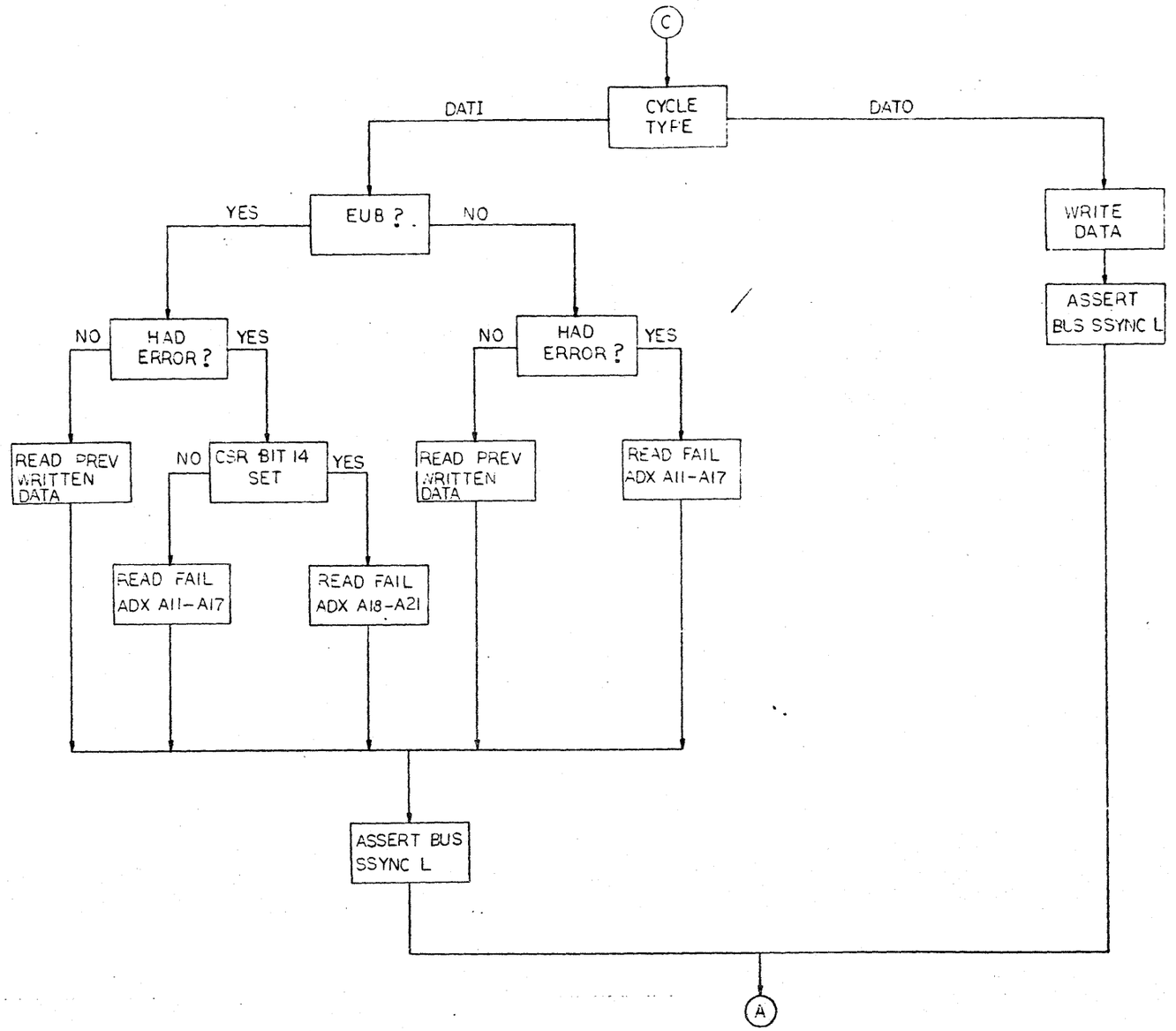

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE MSII-L (DATI/DATO) FLOW DIAGRAM	SIZE D	CODE FD	NUMBER MSII-L-5	REV. *
SCALE	SHEET 2 OF 2	DIST.		

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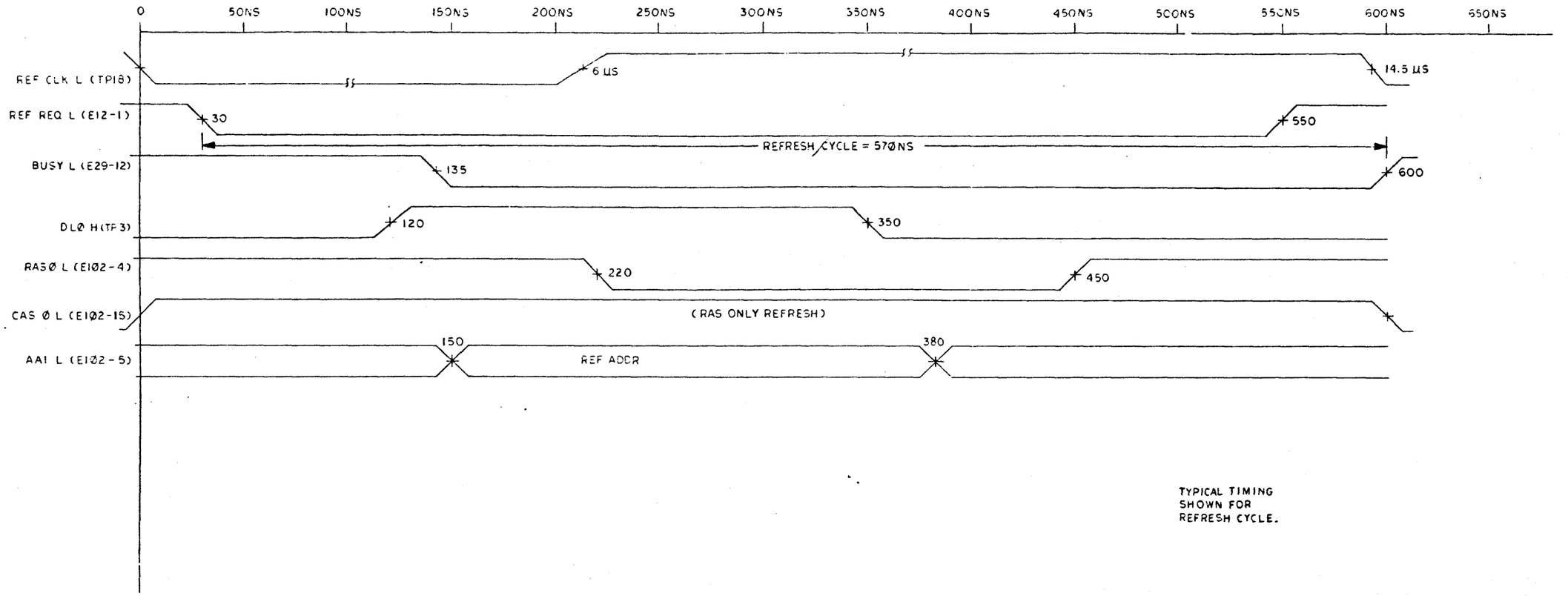
REFRESH CYCLE



TYPICAL TIMING SHOWN FOR REFRESH CYCLE.

REVISIONS

REV.	CHANGE NO.	CHK

DRN. L Vincent	6-30-78	FIRST USED ON
CHK'D R Manus	9-28-78	digital
ENG. R Mini	9-28-78	TITLE MSII-L TIMING DIAGRAM
PROJ. ENG. R Mini	9-28-78	
PROD. [illegible]	9/28/78	
NEXT HIGHER ASSY.		
6-DD-MSII-L		SIZE D CODE TD NUMBER MSII-L-6 REV. K
SCALE		
SHEET 1 OF 3		DIST.

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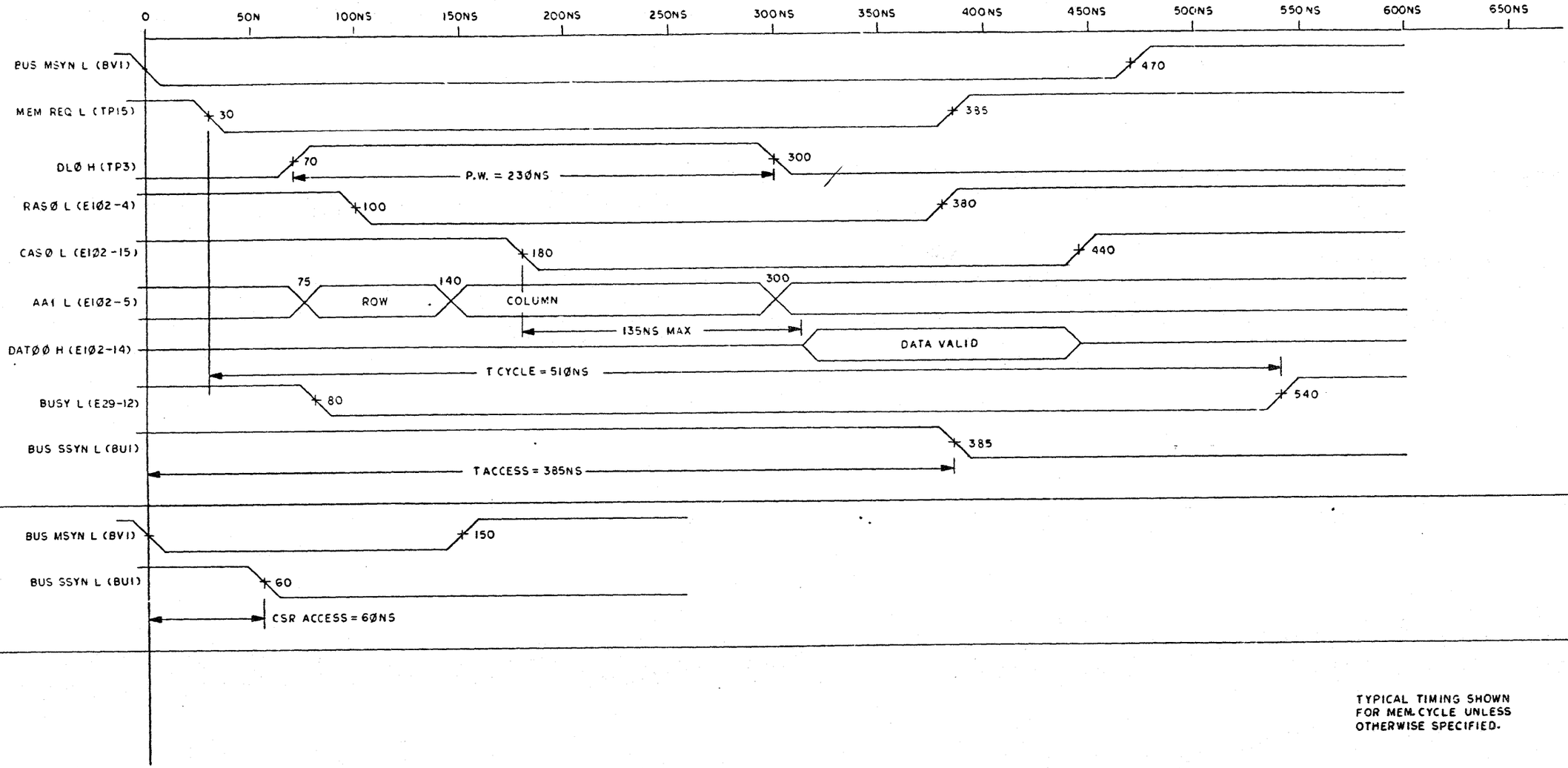
DATI CYCLE



TYPICAL TIMING SHOWN FOR MEM. CYCLE UNLESS OTHERWISE SPECIFIED.

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	MSII-L TIMING DIAGRAM	SIZE	CODE	NUMBER	REV.
		D	TD	MSII-L-6	*
SCALE		SHEET 2 OF 3		DIST.	

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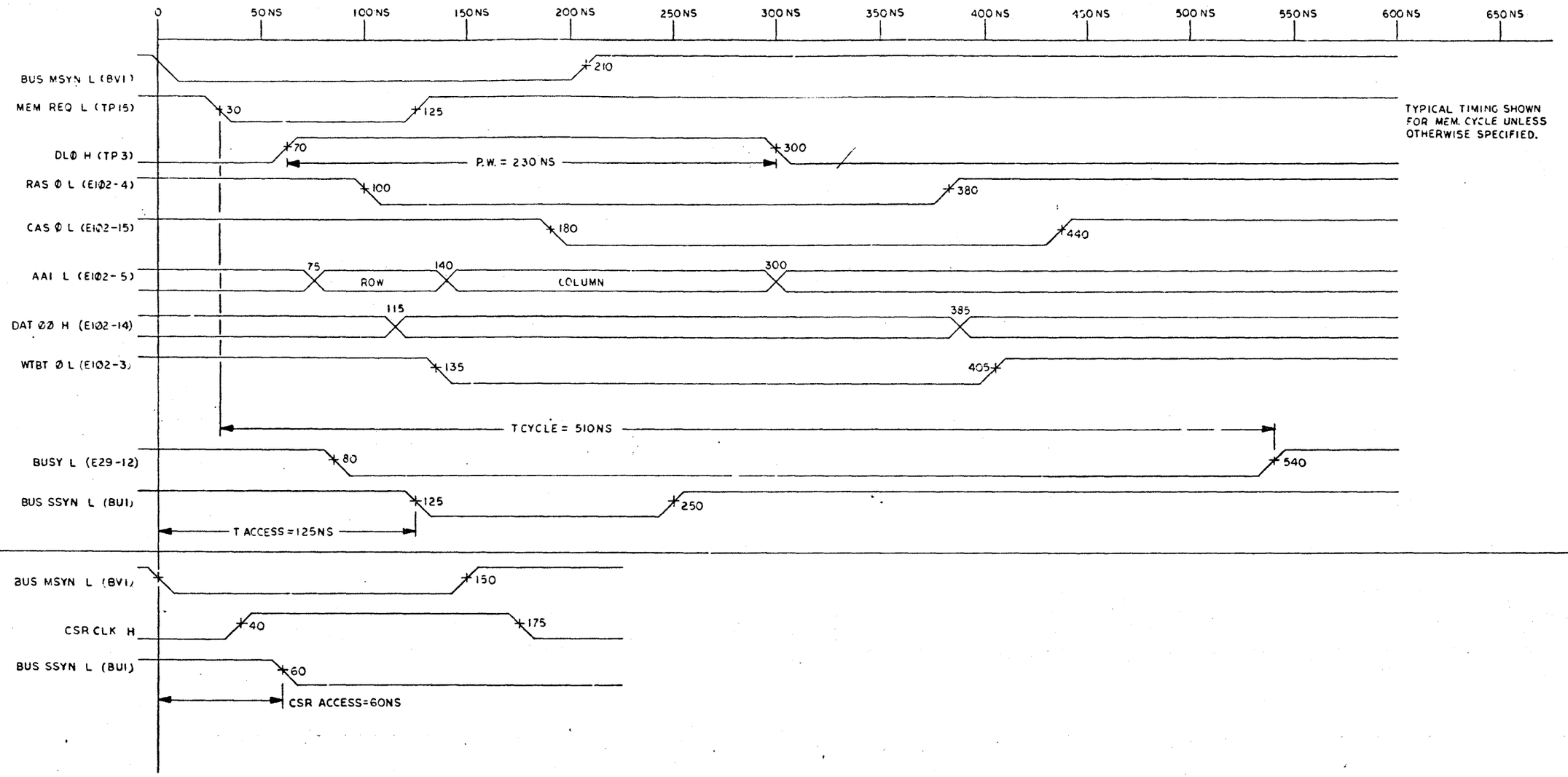
DATO CYCLE



TYPICAL TIMING SHOWN FOR MEM. CYCLE UNLESS OTHERWISE SPECIFIED.

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
MSII-L TIMING DIAGRAM	D	TD	MSII-L-6	
SCALE	SHEET 3 OF 3		DIST.	

SIZE	CODE	NUMBER	REV.
B	DD	M7891-Ø	E

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS
B-DD-M7891-Ø	1		128K X 18 MOS MEMORY	* A B C D E
D-UA-M7891-Ø-Ø	8		128K X 18 MOS MEMORY	A B C C C D
D-CS-M7891-Ø-1	14		128K X 18 MOS MEMORY	A B C C D E
D-MD-5Ø13399-Ø-Ø	7		DRILL AND ETCH DRAWING	A A A A A B
		5013399	ETCHED BOARD	B B B B B C
K-PC-M7891-Ø-DBC	-		P.C. DESIGN DATA BASE (M7891)	A A A A A B
B-PL-M7891-Ø-Ø	12		PARTS LIST (M7891)	A B C D E INA
D-EC-5013399-0-0	2		ETCH CUT DRAWING	- - - - - D
K-PL-M7891-0-DBP	-		PARTS LIST DATA BASE	- - - - - F

NOTES:

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REVISIONS		
REV.	CHG NO.	DATE
A	ML ØØ1	12/78
B	ML ØØ2	4/79
C	ML ØØ3	1/80
D	ML ØØ4	4/80
E	ML ØØ5	11/80

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USED ON OPTION/MODEL
11/34

DRN.	E. DEVRIES	14AUG78
CHK'D	R. MANION	9/26/78
ENG.	R. GIVEN	9/28/78
PROD.	B. SCHAAF	9/21/78

TITLE: 128K X 18 MOS MEMORY

SIZE	CODE	NUMBER	REV.
B	DD	M7891-Ø	E

SHEET 1 OF 1

DRB 126

AUTOMATED BY PRTLST,2E(3) P A R T S L I S T SHEET A1 OF A3

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION DC	DD	DF	CC	REFERENCE DESIGNATOR
1	1	D-CS-M7891-0-1		CIRCUIT SCHEMATIC	REF	REF	REF	REF	
2	2	D-UA-M7891-0-0		UNIT ASSEMBLY	REF	REF	REF	REF	
3	3	B-DD-M7891-0-0		DRAWING DIRECTORY	REF	REF	REF	REF	
4	4	D-MD-5013399-0-0		DRILL AND ETCH DRAWING	REF	REF	REF	REF	
5	5		5013399-00	128K X 18 MOS, MEM	1	1	1	1	
6	6		1001610-00	.01 MFD 50V +80-20% 25U CER	49	49	49	49	C1,C2,C141-C182,C264,C266,C268,
							CONT	CONT	C270,C272
7	7		1010279-01	.47 MFD 25V 20% CER	90	90	90	-	C6,C8,C184-C263,C267,C269,C271,
							CONT	CONT	C273,C265,C278-C280
		CONT			-	-	-	74	C6,C8,C184-C247,C267,C269,C271,
							CONT	CONT	C273,C265,C278-C280
8	8		1012094-01	8 MFD 25V +75-10% AL EL	4	4	4	4	C10-C12,C276
9	9		1012121-00	220.0 MMF 100V 1%200PPM MICA	2	2	2	2	C4,C5
10	10		1012219-00	47 MFD 30V +75-10% AL EL	5	5	5	5	C3,C9,C274,C275,C277
11	11		1109988-00	*** THIS ITEM IS NOT USED ***	-	-	-	-	
12	12		1110324-00	LED 1MCD@10MA PIV=3	1	1	1	1	D3
13	13		1114384-00	LED 105MW 35MA GREEN	1	1	1	1	D2
14	14		1209941-06	HEADER,100 20POS RT ANGLE	1	1	1	1	J1
15	15	→	1216988-02	HANDLE,MODULE,HEX TWO EJECTORS	1	1	1	1	
16	16		1211751-00	FUSE, SUB-MINI, 2.000A, 125V, A	1	1	1	1	F1
17	17		1211164-00	SW,DIP 1P 1A 4POS	1	1	1	1	E47
18	18		1211164-05	SW,DIP 1P 1A 9POS	1	1	1	1	E61
19	19		1300271-00	220.0 .25 W 5.0 % CC	3	3	3	3	R29,R32,R33
20	20		1300295-00	330.0 .25 W 5.0 % CC	1	1	1	1	R3
21	21		1315679-00	R NETWORK 3-29 5.0 % 7PIN	5	5	5	5	R36-R40
22	22		1300316-00	470.0 .25 W 5.0 % CC	4	4	4	4	R11,R14,R19,R23
23	23		1300365-00	1.0 K .25 W 5.0 % CC	4	4	4	4	R13,R16-R18
24	24		1301874-00	5.60 K .25 W 5.0 % CC	4	4	4	4	R12,R15,R28,R30
25	25		1302377-00	39.0 .25 W 5.0 % CC	2	2	2	2	R8,R35
26	26		1302411-00	511.0 .25 W 1.0 % RN55D-F10	1	1	1	1	R6

REVISION HISTORY			BASIC PART NO: M7891											
ENG	ECO NUMBER	REV	SECTION A OF F	DRN: H.WEINBRENNER	DATE: 13-SEP-78		D	I	G	I	T	A	L	
R,G	M7891-ML005	F	SECTION.VARIATION INDEX	CHK'D: R.V.MANION	DATE: 13-SEP-78	TITLE	PARTS LIST							
			[A] DC,DD,DF,CC			128K X 18 MOS MEMORY								
			[B] CD,CF,AC,AD											
			[C] AF,BC,BD,BF	DES.ENG: R.GIVEN	DATE: 13-SEP-78									
			[D] AH,BH,CH,DH											
			[E] AL,BL,CL,DL	RESP.ENG.: R.GIVEN	DATE: 13-SEP-78	DOCUMENT NUMBER								
			[F] AB,BB,CB,DB			SIZE	CODE	NUMBER					REV	
			[H]	MFG.ENG.: B.SCHAAF	DATE: 13-SEP-78	K	PL	M7891-0-DBP					F	
			[J]											
			[K]	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME:							EDIT #	
			[L]	D-UA-M7891-0-0	B-DD-M7891-0	Z181JF.PLS							11	
			[M]											
			[N]											

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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION DC	DD	DF	CC	REFERENCE DESIGNATOR
27	27		1302874-00	147.0 .25 W 1.0 % RN55D-F10	1	1	1	1	R7
28	28		1302957-00	121.0 .25 W 1.0 % RN55D-F10	1	1	1	1	R2
29	29		1303110-00	19.60 .25 W 1.0 % RN55D-F10	1	1	1	1	R10
30	30		1303156-00	34.80 K .25 W 1.0 % RN55D-F10	1	1	1	1	R5
31	31		1311422-00	178.0 .25 W 1.0 % RN55D-F10	1	1	1	1	R20
32	32		1305322-00	7.50 K .25 W 1.0 % RN55D-F10	1	1	1	1	R4
33	33		1312466-00	10.0 1.0 W 1.0 % WW	1	1	1	1	R1
34	34		1315678-00	R NETWORK 3-18 5.0 % 7PIN	16	16	16	-	R41-R56
			CONT		-	-	-	13	R41-R52,R54
35	35		1315339-00	R NETWORK 4-5K 5.0 % 5PIN	7	7	7	7	R9,R22,R24-R27,R31
36	36		1613120-00	DELAY= 200NS,10TAPS	1	1	1	1	E18
37	37		1910532-00	74S00 NAND GATE-QUAD 2IN	3	3	3	3	E16,E46,E53
38	38		1910533-00	74S03 NAND GATE-QUAD 2IN,O	1	1	1	1	E7
39	39		1910536-00	74S10 NAND GATE-TRIPLE 3IN	3	3	3	3	E28,E39,E36
40	40		1910537-00	74S11 AND GATE-TRIPLE 3INP	2	2	2	2	E29,E44
41	41		1910539-00	74S20 NAND GATE-DUAL 4INPU	1	1	1	1	E59
42	42		1910544-00	74S74 FF-D DUAL,EDGE TRIGG	2	2	2	2	E33,E34
43	43		1910544-01	74S74-60GG-D DUAL,EDGE TRIG	1	1	1	1	E6
44	44		1910549-00	74S158 MUX 1 OF 2 (QUAD)	2	2	2	2	E58,E65
45	45		1911469-00	DEC 8640 RECEIVER,BUS,QUAD,U	6	6	6	6	E48,E62,E25,E31,E37,E41
46	46		1911573-00	74S280 PARITY GEN/CHKR,9BIT	4	4	4	4	E42,E49,E56,E63
47	47		1911579-00	8641 TRANSCEIVER,BUS,QUA	6	6	6	6	E1,E3,E8,E13,E19,E55
48	48		1911675-00	74S138 DECODER/DEMUX 3-8 LIN	1	1	1	1	E51
49	49		1911944-00	555CN TIMER,FUNCT.BLOCK	1	1	1	1	E5
50	50	1912048-02 OR 06	1911983-00	74S133 NAND GATE-POSITIVE 1	1	1	1	1	E45
51	51	MAY BE SUBSTITUTED-	1912048-05	7812 VOLT REG,FIX +12V	1	1	1	1	Q2
52	52		1912388-00	74S02 NOR GATE-QUAD 2IN,PO	1	1	1	1	E30
53	53		1912389-00	74S08 AND GATE-QUAD 2IN,PO	2	2	2	2	E22,E23
54	54		1912541-00	79M05 VOLT REG,FIX -5V	1	1	1	1	Q1
55	55		1912746-00	DEC 74S37 NAND GATE-QUAD 2IN	1	1	1	1	E12
56	56		1912807-00	LS10 NAND GATE-TRIPLE 3IN	2	2	2	2	E11,E40
57	57		1912828-00	LS85 COMPARATOR,4BIT MAGN	1	1	1	1	E54
58	58		1912853-00	LS175 FF-D QUAD	2	2	2	2	E10,E15
59	59		1912867-00	LS298 MUX 1 OF 4,2IN W/S	2	2	2	2	E21,E27
60	60		1913340-00	74S32 OR GATE-QUAD 2IN	1	1	1	1	E35
61	61		1913462-00	74S240 OCTAL BUFFER,INVERTI	1	1	1	1	E52
62	62		1913670-00	74S373 LATCH 8BIT TRASP TR	4	4	4	4	E50,E57,E64,E38
63	63		1913777-00	LS240 DRIVER,LINE,OCTAL,T	9	9	9	-	E24,E68,E69,E86,E119,E136,E169,
							CONT		E186,E203
			CONT		-	-	-	8	E24,E68,E69,E86,E119,E136,E169,
							CONT		E186
64	64		1914086-00	74S30 NAND GATE-POS 8IN	1	1	1	1	E60
65	65		1914451-00	74LS393 COUNTER,BINARY,4BIT	1	1	1	1	E43
66	66		1915193-00	LS244 DRIVER,LINE.OCTAL,T	1	1	1	1	E17
67	67		1915219-00	LS373 FF-D OCTAL-TRANSPARE	7	7	7	7	E2,E4,E9,E14,E20,E26,E32
68	68		23250F1-00	*** THIS ITEM IS NOT USED ***	-	-	-	-	
69	69		23468A2-00	A2-05	1	1	1	1	E66
70	70		7414765-00	HEATSINK	1	1	1	1	

DIGITAL	TITLE	SIZE	CODE	DOCUMENT NUMBER	REV
	128K X 18 MOS MEMORY	K	PL	M7891-0-D8P	F
	SECTION A OF F				

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION DC	DD	CF	CC	REFERENCE DESIGNATOR
71	71		9000024-01	EYELET, ROLLED FLANGE, .121 OD X	12	12	12	12	
72	72		9010092-00	SCREW,PAN,PHIL 4-40X 5/16 SS	1	1	1	1	
73	73		9007201-00	TRANSIPADS #10253	1	1	1	1	
74	74		9009149-00	PIN, STAKING, P.C. BOARD, .025 X	5	5	5	5	
75	75		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	12	12	12	12	W2,W7,W10-W16,W20,W21,W23
76	76		1109991-00	1N 754A V2= 6.8 5% .40W	1	1	1	1	D5
77	77		1105275-00	*** THIS ITEM IS NOT USED ***	-	-	-	-	
78	78		1210929-04	FUSE, SUB-MINI .250A, 125V, A	1	1	1	1	F2
79	79		2114408-01	16K MOS RAM 200NS 1	144	-	-	-	E70-E85,E120-E135,E170-E185,
							CONT		E87-E118,E137-E168,E187-E202,
							CONT		E204-E219
			CONT		-	-	-	106	E72-E77,E80-E85,E87-E118,
							CONT		E120-E135,E137-E168,E170-E185
80	80		1301969-00	22.0 .25 W 5.0 % CC	1	1	1	1	R34
81	81		2114895-01	16K MOS RAM 200NS 1	-	144	-	-	E70-E85,E120-E135,E170-E185,
							CONT		E87-E118,E137-E168,E187-E202,
							CONT		E204-E219
82	82		2114897-01	16K MOS RAM 200NS 1	-	-	144	-	E70-E85,E120-E135,E170-E185,
							CONT		E87-E118,E137-E168,E187-E202,
							CONT		E204-E219
83	83		1302956-00	196.0 .25 W 1.0 % RN55D-F10	1	1	1	1	R21
84	84		2114567-01	*** THIS ITEM IS NOT USED ***	-	-	-	-	
85	85		2117367-01	*** THIS ITEM IS NOT USED ***	-	-	-	-	
86	86	D-EC-5013399-0-0		ETCH CUT DWG	REF	REF	REF	REF	
87	87		23258F1-00	F1-01	-	-	-	1	E67
88	88		23249F1-00	F1-01	1	1	1	-	E67
89	89		23257F1-00	*** THIS ITEM IS NOT USED ***	-	-	-	-	

90 NOTE: 1. M7891-AA IS PRIMARY VARIATION OF 32K X 18 BIT SYSTEM (NOT A MODULE TYPE).
91 NOTE: 2. M7891-BA IS PRIMARY VARIATION OF 64K X 18 BIT SYSTEM (NOT A MODULE TYPE).
92 NOTE: 3. M7891-CA IS PRIMARY VARIATION OF 96K X 18 BIT SYSTEM (NOT A MODULE TYPE).
93 NOTE: 4. M7891-DA IS PRIMARY VARIATION OF 128K X 18 BIT SYSTEM (NOT A MODULE TYPE).
94 NOTE: 5. AC,BC,CC,DC ARE MODULE TYPES USING FUJITSU 16K MOS DEVICES.
95 NOTE: 6. AD,BD,CD,DD ARE MODULE TYPES USING INTEL 16K MOS DEVICES.
96 NOTE: 7. AF,BF,CF,DF ARE MODULE TYPES USING HITACHI 16K MOS DEVICES.
97 NOTE: 8. AB,BB,CB,DB ARE MODULE TYPES USING MOSTEK 16K MOS DEVICES.
98 NOTE: 9. AH,BH,CH,DH ARE MODULE TYPES USING NEC 16K MOS DEVICES.
99 NOTE: 10.AL,BL,CL,DL ARE MODULE TYPES USING TOSHIBA 16K MOS DEVICES.

D	I	G	I	T	A	L	TITLE	SECTION	SIZE	CODE	DOCUMENT NUMBER	REV
							128K X 18 MOS MEMORY	A OF F	K	PL	M7891-0-DBP	F

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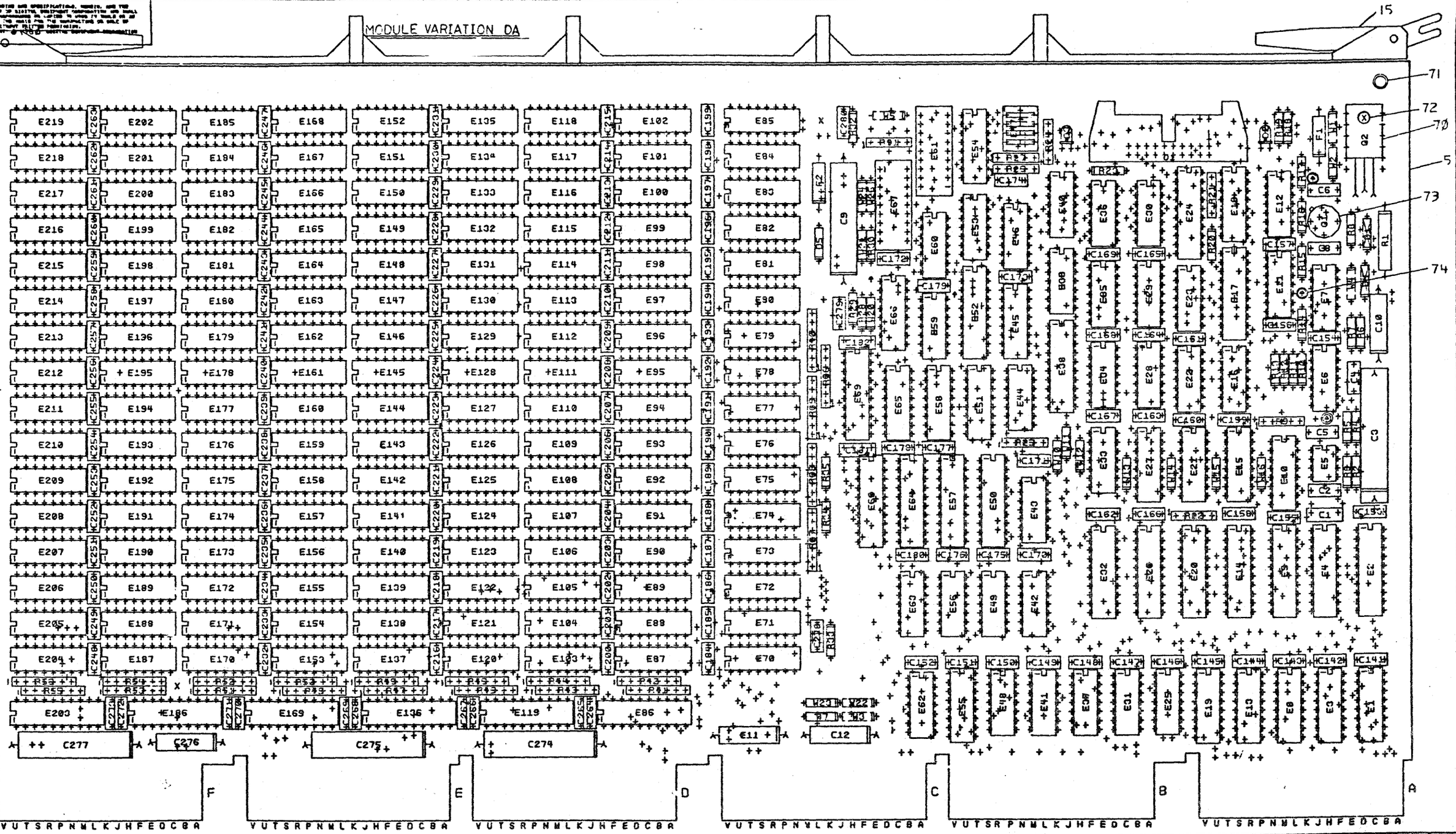
MODULE VARIATION DA



NOTES: THE FOLLOWING COMPONENTS ARE NOT INSTALLED IN THE DA VARIATION: D1, D4

STEP & REPEAT	↑ Y AXIS 6 STEP 2 TIMES
	→ X AXIS 3 STEP 2 TIMES

REV	CHANGE NO	CHK	DRAWN
D		LG	MT891-ML5

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

SIGNATURES	DATE
DRN. Linda Peterson	11/13/80
CHK'D. L Swanson	11/17/80
MECH. ENG. R Lum	11/13/80
PROJ. ENG. R Lum	11/13/80
PROD. R Lum	11/17/80

SCALE 2:1
SHT. 1 OF 8
NEXT HIGHER ASSY. B-DD-M7891-0

digital

TITLE
128K X 18 MOS MEM

SIZE	CODE	NUMBER	REV
D	UA	M7891-0-0	D

1 WO#

MODULE VARIATION DA

TP15 TP16 TP3 15 71 72 70 5 73 74 TP20 TP 18

E219 E202 E185 E168 E152 E135 E118 E102 E85
E218 E201 E184 E167 E151 E134 E117 E101 E84
E217 E200 E183 E166 E150 E133 E116 E100 E83
E216 E199 E182 E165 E149 E132 E115 E99 E82
E215 E198 E181 E164 E148 E131 E114 E98 E81
E214 E197 E180 E163 E147 E130 E113 E97 E80
E213 E196 E179 E162 E146 E123 E112 E96 E79
E212 E195 E178 E161 E145 E128 E111 E95 E78
E211 E194 E177 E160 E144 E127 E113 E94 E77
E210 E193 E176 E159 E143 E126 E129 E93 E76
E209 E192 E175 E158 E142 E125 E108 E92 E75
E208 E191 E174 E157 E141 E124 E107 E91 E74
E207 E190 E173 E156 E140 E123 E106 E90 E73
E206 E189 E172 E155 E139 E122 E105 E89 E72
E205 E188 E171 E154 E138 E121 E104 E88 E71
E204 E187 E170 E153 E137 E120 E103 E87 E70
E203 E186 E169 E136 E119 E86

C277 C276 C275 C274 C11 C12

E69 E65 E58 E51 E44 E68 E64 E57 E50 E43 E63 E56 E49 E42
E61 E54 E67 E60 E53 E46 E66 E59 E52 E45 E40 E39 E38
E36 E30 E24 E18 E35 E29 E23 E17 E34 E28 E22 E16 E33 E27 E21 E15 E32 E26 E20 E14
E12 E11 E7 E6 E10 E5 E9 E4 E3 E2
E62 E55 E48 E41 E37 E31 E25 E19 E13 E8

C152 C151 C150 C149 C148 C147 C146 C145 C144 C143 C142 C141
C162 C166 R22 C158 C155 C1 C153
C182 C181 C178 C177 C180 C176 C175 C170
C174 C173 C172 C179 C157 C156 C154 C167 C168 C169 C165 C164 C161 C160 C159 C163 C6 C8 C5 C2
C279 C278 C280 C9 C3 C4 C10

R31 R27 R24 R23 R21 R20 R9 R22 R25 R40 R36 R39 R38 R35 R37 R34 R55 R54 R53 R52 R51 R50 R49 R48 R47 R46 R45 R44 R43 R42 R41

W23 W22 W7 W3 W24 W25 W26 W27 W28 W29 W30 W31 W32 W33 W34 W35 W36 W37 W38 W39 W40 W41 W42 W43 W44 W45 W46 W47 W48 W49 W50 W51 W52 W53 W54 W55 W56 W57 W58 W59 W60 W61 W62 W63 W64 W65 W66 W67 W68 W69 W70 W71 W72 W73 W74 W75 W76 W77 W78 W79 W80 W81 W82 W83 W84 W85 W86 W87 W88 W89 W90 W91 W92 W93 W94 W95 W96 W97 W98 W99 W100 W101 W102 W103 W104 W105 W106 W107 W108 W109 W110 W111 W112 W113 W114 W115 W116 W117 W118 W119 W120 W121 W122 W123 W124 W125 W126 W127 W128 W129 W130 W131 W132 W133 W134 W135 W136 W137 W138 W139 W140 W141 W142 W143 W144 W145 W146 W147 W148 W149 W150 W151 W152 W153 W154 W155 W156 W157 W158 W159 W160 W161 W162 W163 W164 W165 W166 W167 W168 W169 W170 W171 W172 W173 W174 W175 W176 W177 W178 W179 W180 W181 W182 W183 W184 W185 W186 W187 W188 W189 W190 W191 W192 W193 W194 W195 W196 W197 W198 W199 W200 W201 W202 W203 W204 W205 W206 W207 W208 W209 W210 W211 W212 W213 W214 W215 W216 W217 W218 W219 W220 W221 W222 W223 W224 W225 W226 W227 W228 W229 W230 W231 W232 W233 W234 W235 W236 W237 W238 W239 W240 W241 W242 W243 W244 W245 W246 W247 W248 W249 W250 W251 W252 W253 W254 W255 W256 W257 W258 W259 W260 W261 W262 W263 W264 W265 W266 W267 W268 W269 W270 W271 W272

J1 F1 F2 Q1 Q2 D5 A1

V U T S R P N M L K J H F E D C B A

NOTES:

CHK CHANGE NO	REV

SIGNATURES	DATE
DRN. Steve Marlow	5-30-78
CHK'D. Jim Mann	7-25-78
ENG. Bob Supnik	9-28-78
PROJ.ENG. Bill Strecker	9-28-78
PROD. Bill Strecker	9/27/78
SCALE 2/1	
SHT. 2 OF 8	

digital

TITLE 128KX18 MOS MEM

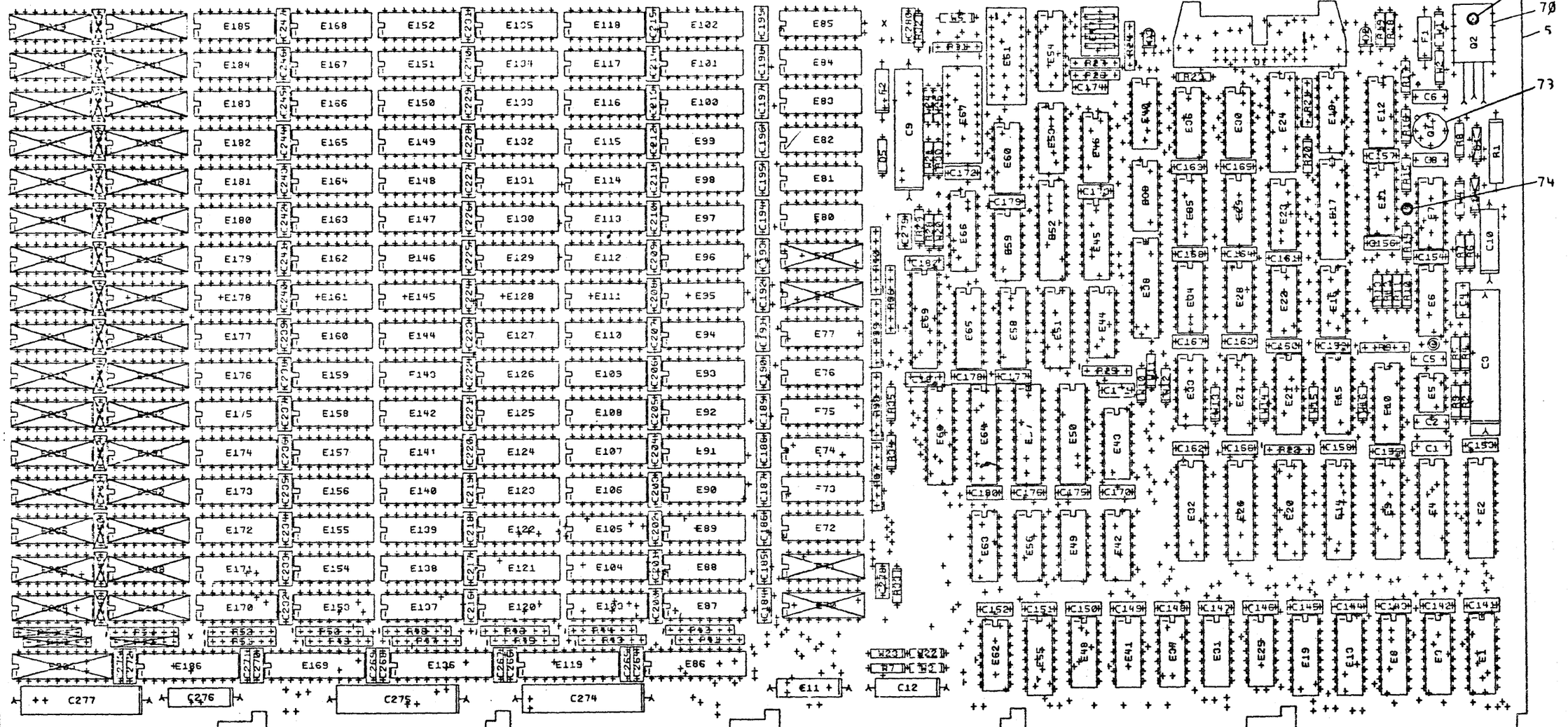
SIZE	CODE	NUMBER	REV
D	CA	M7891-0-0	D

NEXT HIGHER ASSY. B-DD-M7391-0

DUAL M7891-0-0

MS# 160202

MODULE VARIATION CA



NOTES: THE FOLLOWING COMPONENTS ARE NOT INSTALLED IN THE CA VARIATION: E70, E71, E78, E79, E187 THRU E219, R53, R55, R56, C248 THRU C263, D1, D4.
M7891-CA MSII-LC 56K X 18 BIT.

STEP Z	↑ Y AXIS ____ STEP ____ TIMES
REPEAT	→ X AXIS ____ STEP ____ TIMES

CHK	CHANGE NO	REV

ETCH REV. C-F2

SIGNATURES	DATE
DRN. Linda Peterson	
CHK'D.	12/7/84
MECH. ENG.	
PROJ. ENG.	
PROD.	

digital

TITLE: 128K X 18 MOS MEM

SCALE 2:1	SIZE	CODE	NUMBER	REV
SHT. 3 OF 8	D	UA	M7891-0-0	D

NEXT HIGHER ASSY. 8-DD-M7891-0

1 WO#

MODULE VARIATION CA

TP15 TP16 TP3

NOTES:

CHK	CHANGE NO	REV

SIGNATURES	DATE
DRN.	5-30-78
CHK'D.	6-2-78
ENG.	7-28-78
PROJ. ENG.	7-28-78
PROD.	8/11/78

digital

TITLE 129KX18 MOS MEM

SCALE 2/1

SHT. 4 OF 8

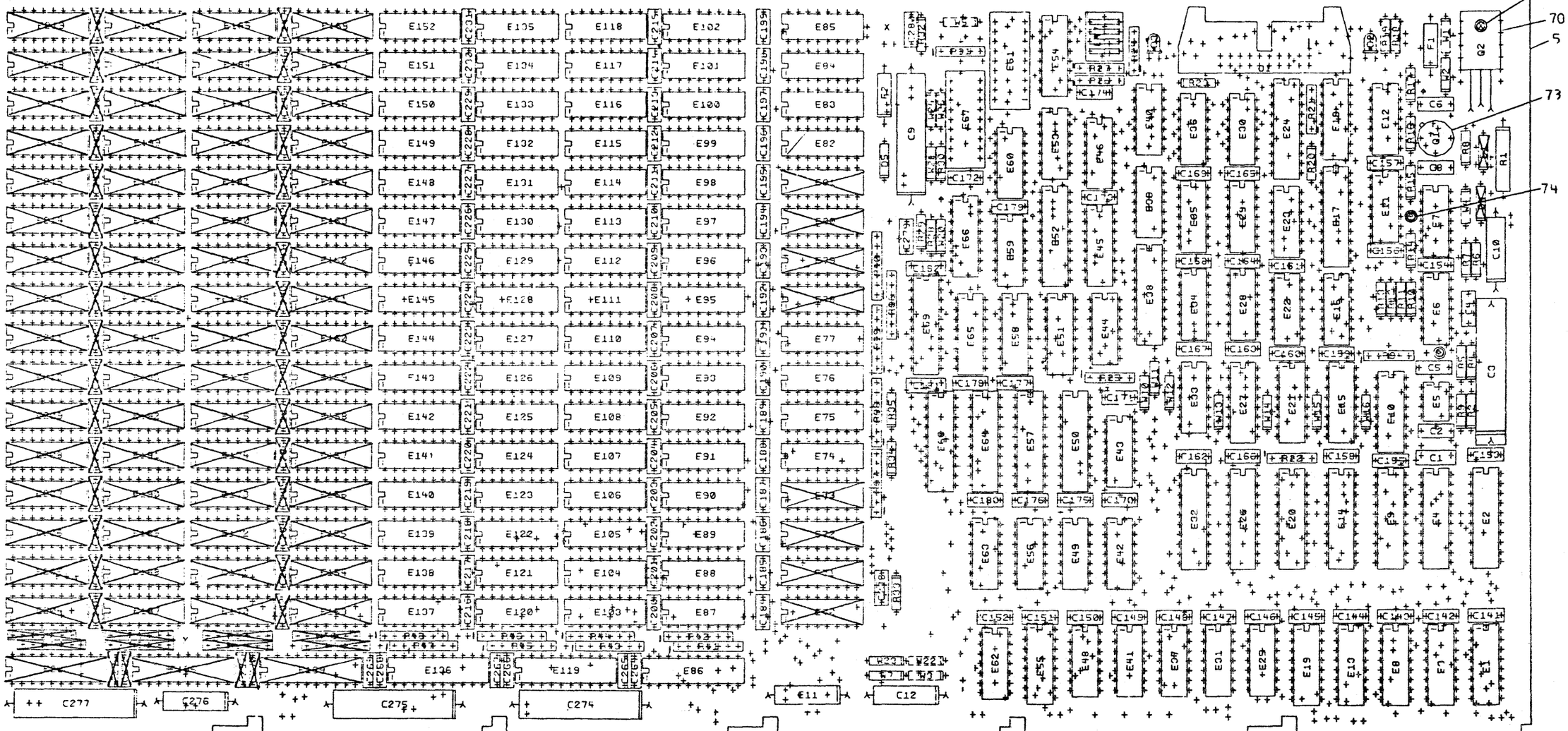
SIZE	CODE	NUMBER	REV
D	UA	M7891-0-0	D

NEXT HIGHER ASSY. 8-DD-M7891-0

DUA:7891-0-0 D

1 MS#150213

MODULE VARIATION BA



NOTES: THE FOLLOWING COMPONENTS ARE NOT INSTALLED IN BA VARIATION: E70 THRU E73, E78 THRU E81, E153 THRU E219, R49 THRU R56, C232 THRU C263, C270 THRU C273, D1, D4.
M7891-BA MSII-LB 64K X 18 BIT

STEP & REPEAT	+ / - AXIS	STEP	TIMES
	+ / - AXIS	STEP	TIMES

CHG. NO.	REV	CHANGE

ETCH REV. C-F?

SIGNATURES	DATE
DRN.	
CHK'D.	
MECH. ENG.	
PROJ. ENG.	
PROD.	

SCALE 2:1
SHT. 5 OF 8
NEXT HIGHER ASSY.

digital

TITLE
12-K X 18 MOS MEM

SIZE	CODE	NUMBER	REV
D	U4	M7891-0-0	D

1 WO#

MODULE VARIATION 8A

TP15 TP16 TP3

NOTES:

CHK	CHANGE NO	REV

SIGNATURES	DATE
DRN.	5-30-78
CHK'D.	6-1-78
ENG.	6-1-78
PROJ.ENG.	6-30-78
PROD.	7/21/78
SCALE 2/1	
SHT. 6 OF 8	
NEXT HIGHER ASSY. 8-DD-M7891-0	

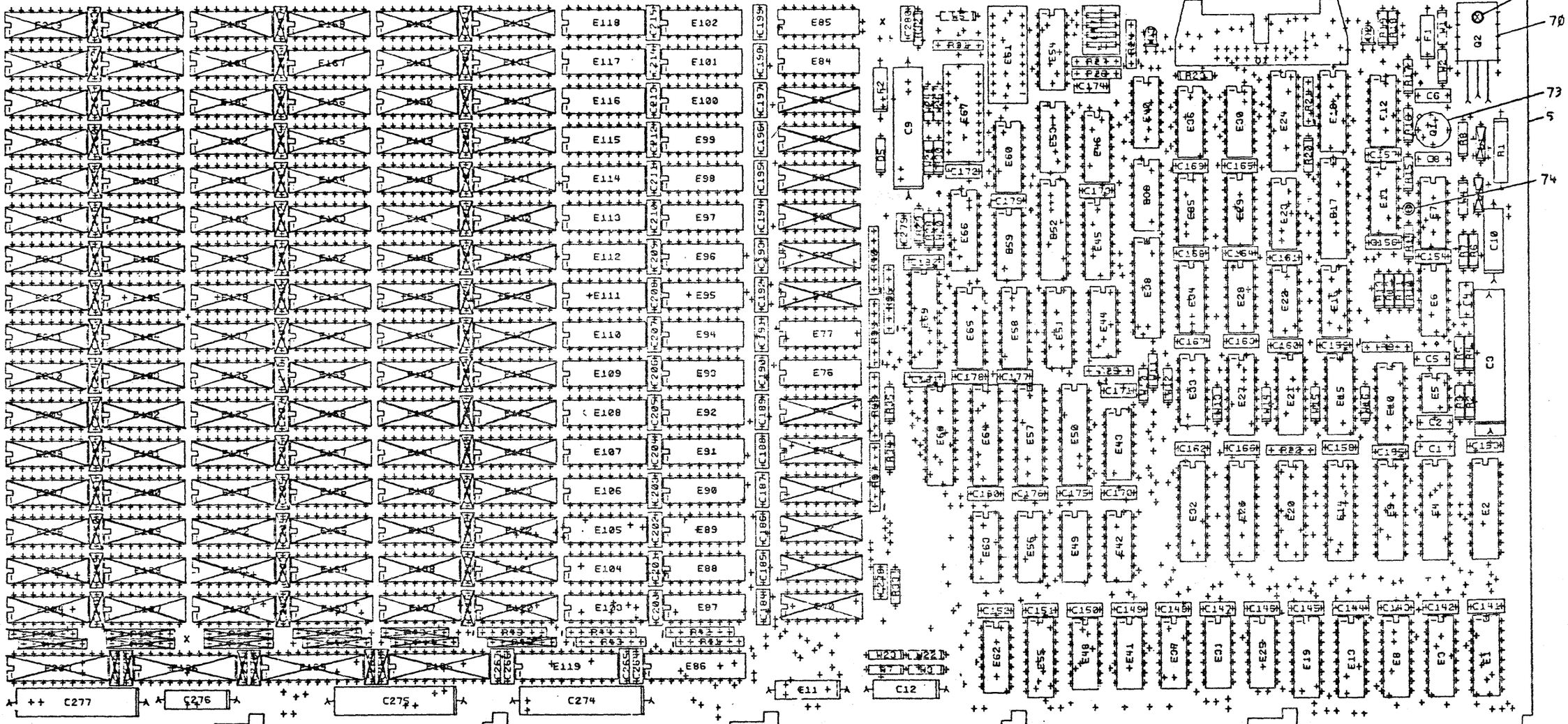
digital

TITLE 128KV8 MOS MEM

SIZE	CODE	NUMBER	REV
D	UA	M7891-0-0	D

1 MS#

MODULE VARIATION AA



NOTES: THE FOLLOWING COMPONENTS ARE NOT INSTALLED IN THE AA VARIATION: E70 THRU E75, E78 THRU E83, E120 THRU E219, R45, R47 THRU R56, C216 THRU C263, C268 THRU C273, D1, D4.
M7391-AA MS11-LA 32K X 18 BITS

STEP	↑ Y AXIS ____ STEP ____ TIMES
REPEAT	→ X AXIS ____ STEP ____ TIMES

CHG	CHANGE NO	REV

ETCH REV. C-P2

SIGNATURES	DATE
DRN. Linda Pearson	
CHK'D. L Pearson	1/4/74
MECH. ENG.	
PROJ. ENG.	
PROD.	

digital

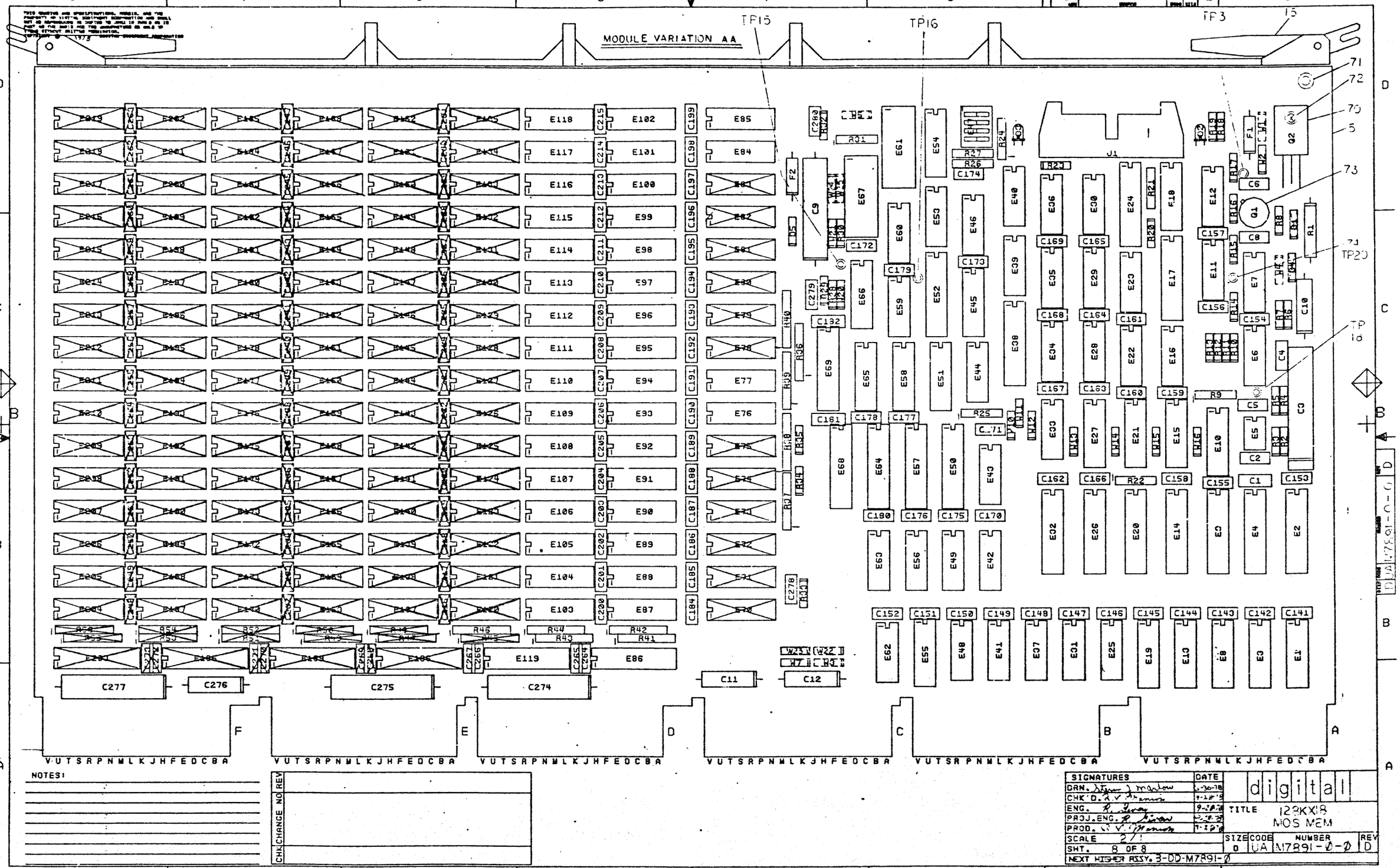
TITLE: 128K X 18 MOS MEM

SCALE 2:1 | SHT. 7 OF 8 | SIZE D | CODE UA | NUMBER M7891-0-0 | REV D

NEXT HIGHER ASSY. 5-DD-M7891-0

M7391-1-1

1 WO#


MODULE VARIATION AA
TP15
TP16
TP3
TP20
TP 10
J1
Q1
Q2
C277
C276
C275
C274
C11
C12
E119
E86
E118
E102
E117
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E116
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NOTES:

1.

STARTING ADDRESS DEC (K)	STARTING ADDRESS OCTAL	SWITCH SETTING (X = OFF) S2-1	S2-2	S2-3	S2-4	S2-5	S2-6	S2-7	S2-8	S2-9
0	00000000									
4	00020000									X
8	00040000								X	
12	00060000								X	X
16	00100000							X		
20	00120000							X		X
24	00140000							X	X	
28	00160000							X	X	X
32	00200000						X			
36	00220000						X			X
40	00240000						X		X	
44	00260000						X		X	X
48	00300000						X	X		
52	00320000						X	X		X
56	00340000						X	X	X	
60	00360000						X	X	X	X
64	00400000					X				
68	00420000					X				X
72	00440000					X			X	
76	00460000					X			X	X
80	00500000					X		X		
84	00520000					X		X		X
88	00540000					X		X	X	
92	00560000					X		X	X	X
96	00600000					X	X			
100	00620000					X	X			X
104	00640000					X	X		X	
108	00660000					X	X		X	X
112	00700000					X	X	X		
116	00720000					X	X	X		X
120	00740000					X	X	X	X	
124	00760000					X	X	X	X	X

2.

STARTING ADDRESS RANGE DEC (K)	STARTING ADDRESS RANGE OCTAL	SWITCH SETTING (X = OFF) S2-1	S2-2	S2-3	S2-4	S2-5	S2-6	S2-7	S2-8	S2-9
128-252	01000000-01760000				X					
256-380	02000000-02760000			v						
384-508	03000000-03760000			X	X					
512-636	04000000-04760000		X							
640-764	05000000-05760000		X		X					
768-892	06000000-06760000		X	X						
896-1020	07000000-07760000		X	X	X					
1024-1148	10000000-10760000	X								
1152-1276	11000000-11760000	X			X					
1280-1404	12000000-12760000	X		X						
1408-1532	13000000-13760000	X		X	X					
1536-1660	14000000-14760000	X	X							
1664-1788	15000000-15760000	X	X		X					
1792-1916	16000000-16760000	X	X	X						
1920-2044	17000000-17760000	X	X	X	X					

TO OBTAIN INCREMENTAL 4K BOUNDARIES WITHIN THE SPECIFIED RANGE, REPEAT SWITCH SETTINGS FROM THE 0-124 K TABLE.

I.E.
S.A. = 260 K
S2-3 = X = OFF
S2-9 = X = OFF

3.

EUB CSR ADDRESS OCTAL	MOD UNIBUS CSR ADDRESS OCTAL	SWITCH SETTING (X = OFF) S1-1	S1-2	S1-3	S1-4
17772100	772100				
17772102	772102				X
17772104	772104			X	
17772106	772106			X	X
17772110	772110		X		
17772112	772112		X		X
17772114	772114		X	X	
17772116	772116		X	X	X
17772120	772120	X			
17772122	772122	X			X
17772124	772124	X		X	
17772126	772126	X		X	X
17772130	772130	X	X		
17772132	772132	X	X		X
17772134	772134	X	X	X	
17772136	772136	X	X	X	X

4.

OPTION DESIGNATION	PRIMARY VARIATION	SYSTEM DESCRIPTION
MS11-LA	M7891-AA	32K X 18 BITS
MS11-LB	M7891-BA	64K X 18 BITS
MS11-LC	M7891-CA	96K X 18 BITS
MS11-LD	M7891-DA	128K X 18 BITS

5.

BUS VOLTAGE	JUMPER W1	W2
+12V	IN	OUT
+15V	OUT	IN

6.

BUS VOLTAGE	JUMPER W3	W7
+5V	IN	OUT
+5BBU	OUT	IN

7.

PERIPHERAL PAGE SIZE	JUMPER W5	W21
2K	IN	IN
4K	OUT	IN
8K	OUT	OUT

8.

FUNCTION	JUMPER W10	W11	W12
NORMAL	IN	IN	IN
ROW ADDR DISABLE	IN	IN	OUT
COL ADDR DISABLE	IN	OUT	IN
REF ADDR DISABLE	OUT	IN	IN

9.

FUNCTION	JUMPER W13	W14	W15	W16
NORMAL	IN	IN	IN	IN
LAT DATA DISABLE	OUT	IN	IN	IN
CSR DATA DISABLE	IN	OUT	IN	IN
CSR DATA DISABLE	IN	IN	OUT	IN
X-ADDR DISABLE	IN	IN	IN	OUT

10.

TYPE	JUMPER W4
MOD UNIBUS	OUT
EUB	IN

11.

FUNCTION	JUMPER W20
NORMAL	IN
SSYN DISABLE	OUT

12.

IC TYPE	+5V	GND	+12V	-5V
MOS	9	16	8	1
74S00	14	7		
74S10	14	7		
74S11	14	7		
74S20	14	7		
74S03	14	7		
74S74	14	7		
74S74-01	14	7		
74S158	16	8		
74LS175	16	8		
8640	8	1		
8641	16	8		
74S280	14	7		
74138	16	8		
555		1	8	
74S02	14	7		
74S08	14	7		
74S37	14	7		
74LS10	14	7		
74LS85	16	8		
74LS298	16	8		
74S32	14	7		
74S240	20	10		
74LS240	20	10		
74S373	20	10		
74S30	14	7		
74LS393	14	7		
74LS244	20	10		
74LS373	20	10		
74S133	16	8		
1K X 4 PROM	18	9		
256 X 4 PROM	16	8		

13.
SIGNAL NAMES WILL BE REFERENCED AS FOLLOWS:

[X] SIGNAL NAME [Y/Z]

- [X] — SOURCE SHEET NUMBER.
- [Y/Z] — Y: DESTINATION SHEET NUMBER.
- [Y/Z] — Z: NUMBER OF CONNECTION POINTS ON DESTINATION SHEET.

14.
* INDICATES BATTERY BACK UP (+5V CR)
● INDICATES .125 PAD ON SIDES 1 AND 2.
⊕ INDICATES WIRE WRAP PINS AND TEST POINTS.

15.
RESISTORS ARE 5% UNLESS OTHERWISE SPECIFIED.

16.
SOME .47 UFD AND .01 UFD ARE NOT USED ON THE AA, BA, CA PRIMARY VARIATIONS.

17. FOR -5V TEST OPERATION W22 IS IN AND W23 IS OUT, FOR -15V OR -12V OPERATION W22 IS OUT AND W23 IS IN.

18. W24 AND W25 ARE FOR FUTURE USE.

REVISIONS	DWG NO.	REV.	BY	DATE
CHK	M7891-ML001	B	R. GIVEN	11-Sept-78
CHK	M7891-ML002	C	R. GIVEN	2-Nov-78
CHK	M7891-ML003	D	R. GIVEN	4-Jan-79
CHK	M7891-ML004	E	R. GIVEN	20-Apr-80
CHK	M7891-ML005	E	R. GIVEN	13-Mar-81

DRN.		6-30-78
CHK'D		7/31/78
ENG.		7-18-78
PROJ. ENG.		8-28-78
PROD.		7/31/78
NEXT HIGHER ASSY.	9-00-M7891-0	
SCALE		
SHEET	1 OF 14	

FIRST USED ON 11/34

TITLE: 128K X 18 BIT MOS MEM

SIZE	CODE	NUMBER	REV.
D	CS	M7891-0-1	E

D-ST.

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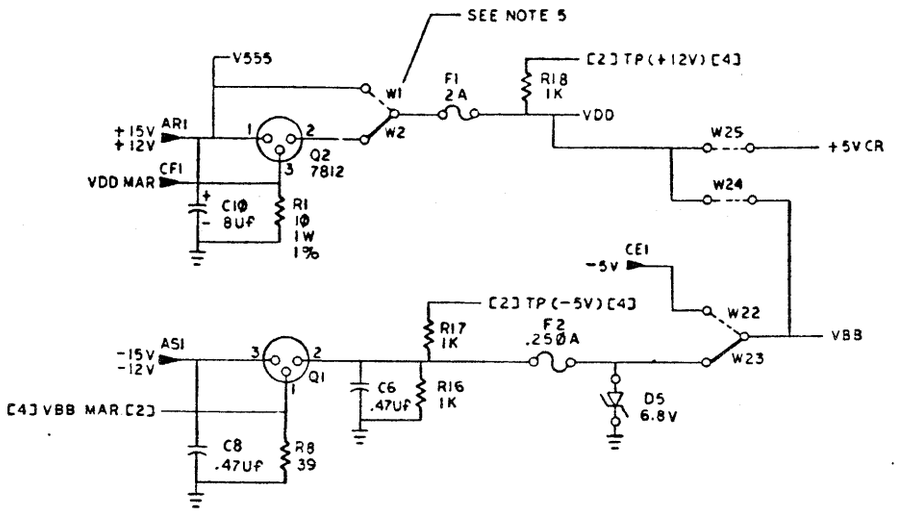
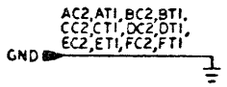
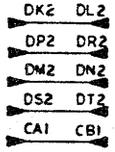
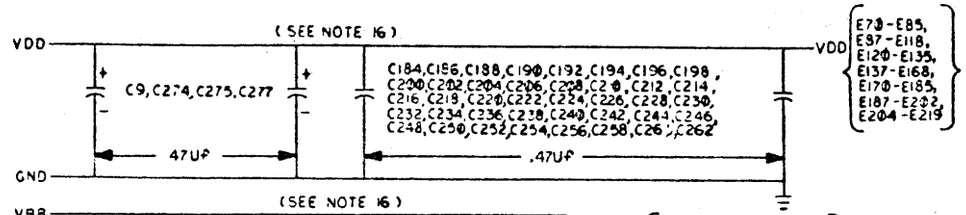
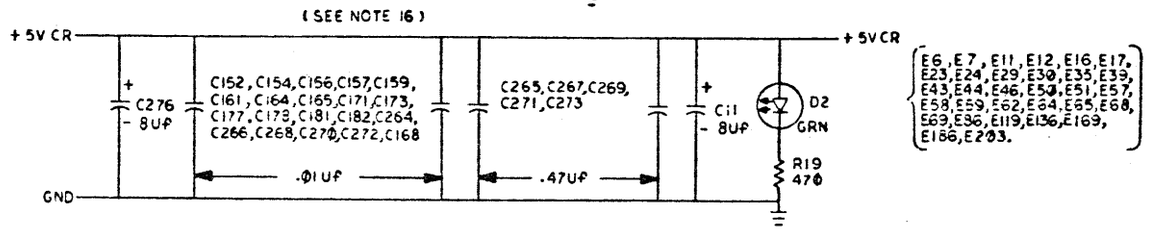


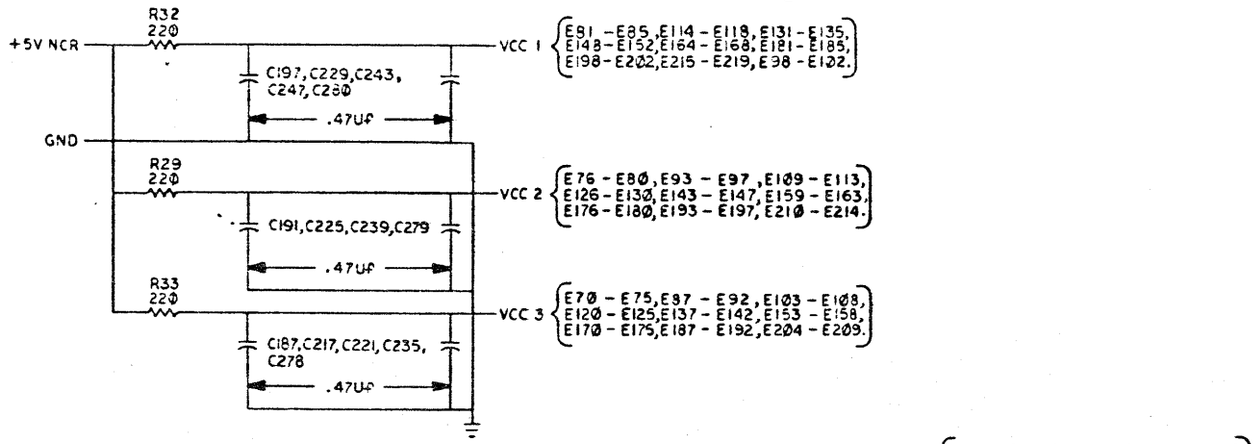


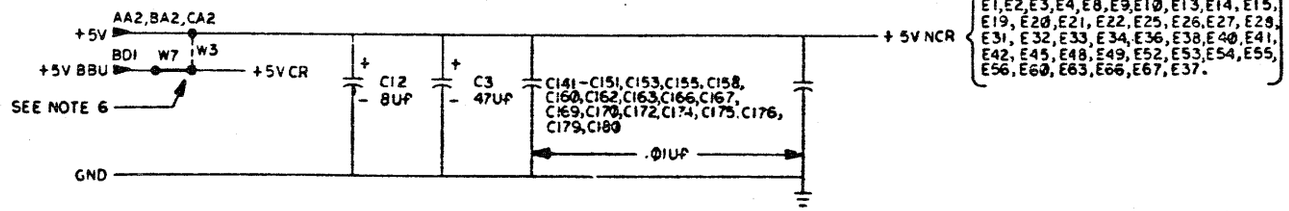
BUS GRANT LINES











REVISIONS	CHANGE NO.	CHK	REV.

128K X 18 BIT MOS MEM	SIZE D	CODE CS	NUMBER M7891-0-1	REV. E
SCALE	SHEET 2 OF 14	DIST.		

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BUS A00 L BH2 — 8640 E31 — [3] A00 H [6]; [3] A00 L [6]
BUS A01 L BH1 — 8640 E31 — [3] A01 H [4,6]
BUS A02 L BJ2 — 8640 E31 — [3] A02 H [4,6]
BUS A03 L BJ1 — 8640 E37 — [3] A03 H [4,6]
BUS A04 L BK2 — 8640 E37 — [3] A04 H [4,6]
BUS A05 L BK1 — 8640 E37 — [3] A05 H [6]; 74S240 E52 — [3] A05 L [4]
BUS A06 L BL2 — 8640 E37 — [3] A06 H [4,6]
BUS A07 L BL1 — 8640 E41 — [3] A07 H [6]; 74S240 E52 — [3] A07 L [4]
BUS A08 L BM2 — 8640 E41 — [3] A08 H [6]; 74S240 E52 — [3] A08 L [4]
BUS A09 L BM1 — 8640 E41 — [3] A09 H [6]; 74S240 E52 — [3] A09 L [4]
BUS A10 L BN2 — 8640 E41 — [3] A10 H [4,6]

+5V CR — R9 5K — W4 — SEE NOTE 10

BUS A11 L BN1 — 8640 E48 — [3] A11 H [6,8]; 74S240 E52 — [3] A11 L [4]
BUS A12 L BP2 — 8640 E48 — [3] A12 H [4/2,6,8]
BUS A13 L BP1 — 8640 E48 — [3] A13 H [4/3,6,8]
BUS A14 L BR2 — 8640 E48 — [3] A14 H [4/2,6,8]

8641 E55
BUS A15 L BR1 — [3] A15 H [4/2,6,8]
BUS A16 L BS2 — [3] A16 H [4/2,8]
BUS A17 L BS1 — [3] A17 H [4/2,8]
[5] SSYN H [3] — BU1 BUS SSYN L

BUS A18 L BE2 — 8640 E25 — [3] A18 H [4/2,8]
BUS A19 L BE1 — 8640 E25 — [3] A19 H [4/2,8]
BUS A20 L AP1 — 8640 E25 — [3] A20 H [4/2,8]
BUS A21 L AN1 — 8640 E25 — [3] A21 H [4/2,8]
[4] TS UNIB H [3] — 74S37 E12 — [3] UNIB L [4,8]

BUS DC LO L BF2 — 8640 E62 — [3] MSYN H [4,5/3,7]
BUS MSYN L BV1 — 8640 E62 — [3] C0 H [6]
BUS C0 L BL2 — 8640 E62 — [3] C1 H [6]
BUS C1 L BT2 — 8640 E62

8641 E1
BUS INIT L AA1 — [3] INIT L [8/2]
[7] PAR ERR [3,7] — AN2 BUS PB L
[7] PAR ERR EN L [3]
[5] OUT EN L [3/5,8/2]

8641 E3
[8] LAT D00 H [3] — AC1 BUS D00 L — [3] DI 00 H [7]
[8] LAT D01 H [3] — AD2 BUS D01 L — [3] DI 01 H [7]
[8] LAT D02 H [3] — AD1 BUS D02 L — [3] DI 02 H [7]
[8] LAT D03 H [3] — AE2 BUS D03 L — [3] DI 03 H [7]
[5] OUT EN L [3/5,8/2]

8641 E8
[8] LAT D04 H [3] — AE1 BUS D04 L — [3] DI 04 H [7]
[8] LAT D05 H [3] — AF2 BUS D05 L — [3] DI 05 H [7]
[8] LAT D06 H [3] — AF1 BUS D06 L — [3] DI 06 H [7]
[8] LAT D07 H [3] — AH2 BUS D07 L — [3] DI 07 H [7]
[5] OUT EN L [3/5,8/2]

8641 E13
[8] LAT D08 H [3] — AH1 BUS D08 L — [3] DI 08 H [7]
[8] LAT D09 H [3] — AJ2 BUS D09 L — [3] DI 09 H [7]
[8] LAT D10 H [3] — AJ1 BUS D10 L — [3] DI 10 H [7]
[8] LAT D11 H [3] — AK2 BUS D11 L — [3] DI 11 H [7]
[5] OUT EN L [3/5,8/2]

8641 E19
[8] LAT D12 H [3] — AK1 BUS D12 L — [3] DI 12 H [7]
[8] LAT D13 H [3] — AL2 BUS D13 L — [3] DI 13 H [7]
[8] LAT D14 H [3] — AL1 BUS D14 L — [3] DI 14 H [7]
[8] LAT D15 H [3] — AM2 BUS D15 L — [3] DI 15 H [7]
[5] OUT EN L [3/5,8/2]

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
128K X18 BIT MOS MEM	D	CS	M7891-0-1	E
SCALE	SHEET 3 OF 14	DIST.		

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+5V NCR
R31 5K
+5V NCR
R30 5.6K
[3] A21 H [4/2,8]
[3] A20 H [4/2,8]
[3] A19 H [4/2,8]
[3] A18 H [4/2,8]
74S20 E59
[3] UNIB L [4,8]
74S00 E53
[3] A17 H [4/2,8]
[3] A16 H [4/2,8]
[3] A15 H [4/2,6,8]
[3] A14 H [4/2,6,8]
74S30 E60
W5
W21
[3] A12 H [4/2,6,8]
[3] A13 H [4/3,6,8]
SEE NOTE 7
74S240 E52
[3] A13 H [4/3,6,8]
[3] A10 H [4,6]
[3] A09 L [4]
[3] A08 L [4]
[3] A07 L [4]
[3] A06 H [4,6]
[3] A05 L [4]
[3] A12 H [4/3,6,8]
[3] A11 L [4]
74S133 E45
+5V CR
R13 1K
T.P. 16
[4] CSR SEL L [7/2,8/3]
74S240 E52
[4] CSR SEL H [5,8]

+5V NCR
R31 5K
5K
IN=
74LS85 E54
A0
A1
A2
A3
B0
B1
B2
B3
A=B
A<B
A>B
IN>
IN<
[3] A04 H [4,6]
[3] A03 H [4,6]
[3] A02 H [4,6]
[3] A01 H [4,6]
[4] TSA04 H [4]
[4] TSA03 H [4]
[4] TSA02 H [4]
[4] TSA01 H [4]
+5V NCR
R24 5K
E47
SI-1
SI-2
SI-3
SI-4
SEE NOTE 3

+5V NCR
R26 5K
23000A2-05
256 X 4 PROM E66
[4] TSA21 H [4]
[4] TSA20 H [4]
[4] TSA19 H [4]
[4] TSA18 H [4]
[3] A21 H [4/2,8]
[3] A20 H [4/2,8]
[3] A19 H [4/2,8]
[3] A18 H [4/2,8]
E61
S2-1
S2-2
S2-3
S2-4
S2-5
S2-6
S2-7
S2-8
S2-9
SEE NOTE 1,2
74S00 E53
74S00 E53
74S00 E53
[3] MSYN H [4,5/4,7]
[5] SSYN L [4]
74S20 E59
T.P. 15
[4] MEM REQ L [5]

+5V NCR
R27 5K
R31 5K
23000F1-00
1K X 4 PROM E67
[4] TSA17 H [4]
[4] TSA16 H [4]
[4] TSA15 H [4]
[4] TSA14 H [4]
[4] TSA13 H [4]
[3] A17 H [4/2,8]
[3] A16 H [4/2,8]
[3] A15 H [4/2,6,8]
[3] A14 H [4/2,6,8]
[3] A13 H [4/3,6,8]
CEA
CEB
[4] NA17 H [6]
[4] NA16 H [6]

J1
[4] TS UNIB H [3]
[2] TP(-5V) [4]
[2] TP(+12V) [4]
[4] VBB MAR [2]
[6] REF CLK H [4,5]
[4] REF K L [6]
[4] TS PAR L [7]
[4] TSA18 H [4]
[4] TSA13 H [4]
[4] TSA17 H [4]
[4] TSA20 H [4]
[4] TSA21 H [4]
[4] TSA16 H [4]
[4] TSA 9 H [4]
[4] TSA01 H [4]
[4] TSA04 H [4]
[4] TSA02 H [4]
[4] TSA14 H [4]
[4] TSA15 H [4]
[4] TSA03 H [4]

REVISIONS
CHK | CHANGE NO. | REV.

TITLE 128K X 18 BIT MOS MEM
SIZE D | CODE CS | NUMBER M7891-0-1 | REV. E
SCALE | SHEET 4 OF 14 | DIST.

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+5VCR
R9 5K
R14 47Ø
74LSIØ E11 → [5] REF REQ L [5]
74S74 E6 (D, (Ø)1, C, Ø)
74S03 E7
[5] REF H [5/2,6/3]
[6] REF CLK H [4,5]
[5] DL 7 L [5]
[5] DLT9 H [5]
[5] REF BUF H [5]
[5] REF L [5/3,6/3,7/2]
RIØ 19.6,1%
[5] DL REQ L [5]
74S37 E12
74S08 E23
[5] REF REQ L [5]
[4] MEM REQ L [5]
[6] BUSY L [5]
R6 511,1%
R7 147,1%
C4 22Ø PF

+5VCR
R21 196,1%
T.P. 3
[5] DL ST L [5]
[5] DL Ø H [5/2,6/3]
200 NS D.L. E18 (1, 9, 7, 15)
2Ø NS/TAP
[5] DL IØ H [5]
R2Ø 178,1%
[5] DL 1 H [5]
[5] DL 2 H [5]
[5] DL 3 H [5/2]
[5] DL 4 H [5]
[5] DL 5 H [5]
[5] DL 6 H [5/2]
[5] DL 7 H [5]
[5] DL 9 H [5]
+5VCR
R15 5.6K
T.P. 2Ø
[5] DL Ø H [5/2,6/3]
[5] DL IØ L [5,6]
74LSIØ E11

[5] DL Ø H [5/2,6/3] → 74LS24Ø E24 → [5] DL Ø L [6]
[5] DL 2 H [5] → 74LS24Ø E24 → [5] DL 2 L [6/2]
[5] DL 4 H [5] → 74LS24Ø E24 → [5] DL 4 L [6]
[5] DL 5 H [5] → 74LS24Ø E24 → [5] DL 5 L [6]
[5] DL 6 H [5/2] → 74LS24Ø E24 → [5] DL 6 L [5,6]
[5] DL 7 H [5] → 74LS24Ø E24 → [5] DL 7 L [5]
[5] DL 3 H [5/2] → 74LS24Ø E24 → [5] DL 3 L [5]
[5] DL IØ H [5] → 74LS24Ø E24 → [5] DL IØ L [5,6]

[5] DL I H [5] → 74LS244 E17 → [5] DLTI H [5,6]
[5] DL 3 H [5/2] → 74LS244 E17 → [5] DLT3 H [6]
[5] DL 6 H [5/2] → 74LS244 E17 → [5] DLT6 H [5,7]
[5] DL 9 H [5] → 74LS244 E17 → [5] DLT9 H [5]
[5] DEL OK L [5] → 74LS244 E17 → [5] DEL OK L [5]
[5] DL REQ L [5] → 74LS244 E17 → [5] DLST L [5]
[5] REF H [5/2,6/3] → 74LS244 E17 → [5] REF BUF H [5]
[6] CAS H [5,9/2] → 74LS244 E17 → [5] DAT OC EN H [8]
[5] REF L [5/3,6/3,7/2] → 74LS244 E17 → [5] REF BUF L [6/2]

+5VCR
R25 5K
74S37 E12
[5] DEL OK L [5]

[3] MSYN H [4,5/3,7]
[4] CSR SEL H [5,8]
[6] LAT CI L [5,8/2]
[5] REF L [5/3,6/3,7/2]
74S08 E23
74LSIØ E4Ø
74S11 E29
[5] DL 3 L [5]
[5] DLT6 H [5,7]
74S74 E34 (D, C, Ø)
[5] OUT EN H [5,7,8]
[5] OUT EN L [3/5,8/2]
[3] MSYN H [4,5/3,7]
[5] DL 6 L [5,6,7]
[5] REF H [5/2,6/3]
74S32 E35
74LSIØ E4Ø
[5] CSR PRCLK L [8]
[5] WT SSYN H [5]
[6] LAT CI H [5,6]
[5] DLTI H [5,6]
[5] REF L [5/3,6/3,7/2]
74S11 E29
[3] MSYN H [4,5/3,7]

[5] OUT EN H [5,7,8]
[5] WT SSYN H [5]
74S32 E35 → [5] SSYN H [3]
+5VCR
R28 5.6K
74SØ2 E3Ø
W2Ø
SEE NOTE 11
[5] SSYN L [4]

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
128K X 18 BIT MOS MEM	D	CS	M7891-Ø-1	E
SCALE ⟷	SHEET 5 OF 14	DIST.		

DCS M7891-Ø-1 E

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+5VCR R25 5K

SEE NOTE 8 W12

[5] DL 2 L [6/2] 74S10 E39 [5] REF L [5/3,6/3,7/2]

[6] ADD LAT L [6/2]

74S373 E57 EN OC

[3] AØ1 H [4,6] [3] AØ2 H [4,6] [3] AØ3 H [4,6] [3] AØ4 H [4,6] [3] AØ5 H [6] [3] AØ6 H [4,6] [3] AØ7 H [6]

[6] MUX A1 H [9,10] [6] MUX A2 H [9,10] [6] MUX A3 H [9,10] [6] MUX A4 H [9,10] [6] MUX A5 H [9,10] [6] MUX A6 H [9,10] [6] MUX A7 H [9,10]

+5VCR R25 5K

SEE NOTE 8 W11

[5] DL Ø H [5/2,6/3] [5] REF L [5/3,6/3,7/2] 74S10 E39

[6] ADD LAT L [6/2]

74S373 E64 EN OC

[3] AØ8 H [6] [3] AØ9 H [6] [3] AIØ H [4,6] [3] AII H [6,8] [3] AI2 H [4/2,6,8] [3] AI3 H [4/3,6,8] [3] AI4 H [4/2,6,8]

+5VCR R25 5K

W1Ø SEE NOTE 8

[5] DL Ø H [5/2,6/3] [5] REF H [5/2,6/3] 74S00 E16

V-555

R5 34.8K 1% R4 7.5K 1% C1 .01uF

555 E5 CTL VTH DCG

C2 .01uF C5 220PF R3 330 R2 .21 1%

T.P. 18

+5VCR R9 5K

[6] REF CLK H [4,5]

74LS393 E43 1A 2A 1CL 2CL 1QA 1QB 1QC 1QD 2QA 2QB 2QC 2QD

74S373 E50 EN OC

[4] REF K L [6]

74S138 E51 SEL C SEL B SEL A

[6] LAT NAI7 H [6] [6] LAT NAI6 H [6] [6] LAT AI5 H [6]

[5] DL Ø H [5/2,6/3] [5] DLTI H [6,5] [5] REF L [5/3,6/3,7/2] 74S02 E3Ø EN

[6] ADD LAT L [6/2]

74S158 E58 STB SØ

[6] RAS Ø H [9/2] [6] RAS 1 H [9/2] [6] RAS 2 H [9/2] [6] RAS 3 H [9/2]

[5] DLT3 H [6] [5] REF H [5/2,6/3] 74S00 E46

74S158 E65 STB SØ

[6] RAS 4 H [9/2] [6] RAS 5 H [9/2] [6] RAS 6 H [9/2] [6] RAS 7 H [9/2]

[5] DL 6 L [5,6,] [5] DL 1Ø L [5,6] 74S11 E29 [6] BUSY L [5]

[5] DL 4 L [6] [5] DL 5 L [6] 74S00 E46 [5] REF BUF L [6/2] 74S11 E44 [6] CAS H [5,9/2]

[5] DL Ø L [6] [5] DL 2 L [6/2] 74S08 E23 74S32 E35 [6] DI LAT L [7/2]

[5] REF H [5/2,6/3]

74S373 E38 EN OC

[4] NAI7 H [6] [4] NAI6 H [6] [3] AI5 H [4/2,6,8] [3] AØØ H [6] [3] AØØ L [6] [3] CØ H [6] [3] CI H [6]

[6] LAT NAI7 H [6] [6] LAT NAI6 H [6] [6] LAT AI5 H [6] [6] LAT AØØ H [6] [6] LAT AØØ L [6] [6] LAT CØ H [6] [6] LAT CI H [5,6]

74S240 E52 [6] LAT CI L [5,8/2]

[6] LAT AØØ H [6] 74S00 E46 [6] LAT CØ H [6] [6] LAT AØØ L [6] 74S00 E46

74S00 E16 [6] EN BYTE 1 L [7]

74S10 E36 [6] EN BYTE Ø L [7]

74S11 E44 [6] WTBT Ø H [1Ø] [6] LAT CI H [5,6] [5] REF BUF L [6/2] 74S11 E44 [6] WTBT 1 H [1Ø]

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
128K X 18 BIT MOS MEM	D	DCS	M7891-Ø-1	E
SCALE	SHEET 6 OF 14	DIST		

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[6] EN BYTE Ø L [7] — 74LS373

E2 (OC, EN)

[3] DIØØ H [7] — D0 — Q0 — [7] DATØØ H [7,8/2,11,12,13,14]
[3] DIØ1 H [7] — D1 — Q1 — [7] DATØ1 H [7,8,11,12,13,14]
[3] DIØ2 H [7] — D2 — Q2 — [7] DATØ2 H [7,8/2,11,12,13,14]
[3] DIØ3 H [7] — D3 — Q3 — [7] DATØ3 H [7,8,11,12,13,14]
[3] DIØ4 H [7] — D4 — Q4 — [7] DATØ4 H [7,8,11,12,13,14]
[3] DIØ5 H [7] — D5 — Q5 — [7] DATØ5 H [7,8/2,11,12,13,14]
[3] DIØ6 H [7] — D6 — Q6 — [7] DATØ6 H [7,8/2,11,12,13,14]
[3] DIØ7 H [7] — D7 — Q7 — [7] DATØ7 H [7,8/2,11,12,13,14]

[6] DI LAT L [7/2]

74S28Ø E63

D0 D1 D2 D3 D4 D5 D6 D7 D8 — fΣ EVEN — fΣ ODD — [7] PDI16 H [11,12,13,14]

+5V CR — R12 5.6K — +5V CR — R11 470Ω

[4] TS PAR L [7] — 74SØ3 E7 — [8] CSRØ2 L [7]

74S28Ø E56

D0 D1 D2 D3 D4 D5 D6 D7 D8 — fΣ EVEN — fΣ ODD — [7] PDI17 H [11,12,13,14]

[6] EN BYTE 1 L [7] — 74LS373

E4 (OC, EN)

[3] DIØ8 H [7] — D0 — Q0 — [7] DATØ8 H [7,8/2,11,12,13,14]
[3] DIØ9 H [7] — D1 — Q1 — [7] DATØ9 H [7,8/2,11,12,13,14]
[3] DI1Ø H [7] — D2 — Q2 — [7] DAT1Ø H [7,8/2,11,12,13,14]
[3] DI11 H [7] — D3 — Q3 — [7] DAT11 H [7,8/2,11,12,13,14]
[3] DI12 H [7] — D4 — Q4 — [7] DAT12 H [7,8,11,12,13,14]
[3] DI13 H [7] — D5 — Q5 — [7] DAT13 H [7,8,11,12,13,14]
[3] DI14 H [7] — D6 — Q6 — [7] DAT14 H [7,8/2,11,12,13,14]
[3] DI15 H [7] — D7 — Q7 — [7] DAT15 H [7,8/2,11,12,13,14]

[6] DI LAT L [7/2]

[4] CSR SEL L [7/2,8/3] — 74SØØ E16 — [8] CSRØØ H [8,7] — [7] PAR ERR EN L [3]

74S28Ø E42

[7] DAT15 H [7,8/2,11,12,13,14]
[7] DAT14 H [7,8/2,11,12,13,14]
[7] DAT13 H [7,8,11,12,13,14]
[7] DAT12 H [7,8,11,12,13,14]
[7] DAT11 H [7,8/2,11,12,13,14]
[7] DAT1Ø H [7,8/2,11,12,13,14]
[7] DAT09 H [7,8/2,11,12,13,14]
[7] DAT08 H [7,8/2,11,12,13,14]
[7] PDO17 H [11,12,13,14]

D0 D1 D2 D3 D4 D5 D6 D7 D8 — fΣ EVEN — fΣ ODD

[5] REF L [5/3,6/3,7/2] — 74S1Ø E36
[5] DLT6 H [5,7] — 74S1Ø E36 — 74S1Ø E28 — [7] PAR ERR H [3,7]

74S28Ø E49

[7] DAT07 H [7,8/2,11,12,13,14]
[7] DAT06 H [7,8/2,11,12,13,14]
[7] DAT05 H [7,8/2,11,12,13,14]
[7] DAT04 H [7,8,11,12,13,14]
[7] DAT03 H [7,8,11,12,13,14]
[7] DAT02 H [7,8/2,11,12,13,14]
[7] DAT01 H [7,8,11,12,13,14]
[7] DAT00 H [7,8/2,11,12,13,14]
[7] PDO16 H [11,12,13,14]

D0 D1 D2 D3 D4 D5 D6 D7 D8 — fΣ EVEN — fΣ ODD

[7] PAR ERR H [3,7] — 74S1Ø E39
[5] OUT EN H [5,7,8]

[4] CSR SEL L [7/2,8/3] — 74SØ8 E22
[5] REF L [5/3,6/3,7/2]

74S74 E33 (D, C, Ø) — [7] PAR ERR CLK H [8] — [7] PAR ERR CLK L [8/2]

[3] MSYN H [4,5/3,7]

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
128K X 18 BIT MOS MEM	D	CS	M7891-Ø-1	E
SCALE —	SHEET 7 OF 14	DIST.		

M7891-Ø-1 E

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+5V NCR
R22 5K
** SEE NOTE 9 **
WI3
WI4
WI5
WI6
[8] DATA OC L [8/2]
[8] CSR OC L [8]
[8] OC L [8]
[8] X ADD OC L [8]

[5] DAT OC EN H [8]
[5] OUT EN H [5,7,8]
74S32 E35
[6] LAT CI L [5,7/2,8/2]
[4] CSR SEL L [7/2,8/3]
74LSIØ E40
[8] CSR14 H [8/2]
74SØ2 E3Ø
[4] CSR SEL H [5,8]
[6] LAT CI L [5,8/2]
74SIØ E28
74SØ8 E22
74SIØ E28

+5V NCR
R23 47Ø
D3
PAR ERR INDICATOR (RED)
[7] PAR ERR CLK L [8/2]
[5] CSR PRCLK L [8]
74SØ8 E22
74SØ2 E3Ø
[8] CSR CLK L [8/2]
[8] CSR CLK H [8/2]
[7] PAR ERR CLK L [8/2]
[7] DATI5 H [7,8/2,11,12,13,14]
[8] CSR CLK H [8/2]
[3] INIT L [8/2]
74S74 E33
[8] CSRI5 H [8]

74LS298 E27
[7] DATII H [7,8/2,11,12,13,14]
[3] AI7 H [4/2,8]
[7] DATIØ H [7,8/2,11,12,13,14]
[3] AI6 H [4/2,8]
[7] DATØ9 H [7,8/2,11,12,13,14]
[3] AI5 H [4/2,6,8]
A1 B1 C1 D1 D2 A2 B2 C2 SEL CLK
RØ(I) RI(I) R2(I) R3(I)
[8] CSRII H [8]
[8] CSRIØ H [8]
[8] CSRØ9 H [8]
[4] CSR SEL L [7/2,8/3]
[8] CSR CLK L [8/2]

74LS298 E21
[7] DATØ8 H [7,8/2,11,12,13,14]
[3] AI4 H [4/2,6,8]
[7] DATØ7 H [7,8/2,11,12,13,14]
[3] AI3 H [4/3,6,8]
[7] DATØ6 H [7,8/2,11,12,13,14]
[3] AI2 H [4/2,6,8]
[7] DATØ5 H [7,8/2,11,12,13,14]
[3] AII H [6,8]
[8] CSRØ8 H [8]
[8] CSRØ7 H [8]
[8] CSRØ6 H [8]
[8] CSRØ5 H [8]
[4] CSR SEL L [7/2,8/3]
[8] CSR CLK L [8/2]

74LS175 EIØ
[3] A2I H [4/2,8]
[3] A2Ø H [4/2,8]
[3] AI9 H [4/2,8]
[3] AI8 H [4/2,8]
DØ D1 D2 D3 CLR CLK
RØ(I) RØ(Ø) RI(I) RI(Ø) R2(I) R2(Ø) R3(I) R3(Ø)
[8] LAT A2I H [8]
[8] LAT A2Ø H [8]
[8] LAT AI9 H [8]
[8] LAT AI8 H [8]
+5V CR
R9 5K
[7] PAR ERR CLK H [8]

74LS175 EI5
[7] DATØ2 H [7,8/2,11,12,13,14]
[7] DATØØ H [7,8/2,11,12,13,14]
[7] DATI4 H [7,8/2,11,12,13,14]
[8] CSRØ2 H [8]
[8] CSRØ2 L [7]
[8] CSRØØ H [8,7]
[3] UNIB L [4,8]
74SØ8 E22
[8] CSRI4 H [8/2]
[3] INIT L [8/2]
[8] CSR CLK H [8/2]

74LS373
[8] DATA OC L [8/2]
[7] DATI5 H [7,8/2,11,12,13,14]
[7] DATI4 H [7,8/2,11,12,13,14]
[7] DATI3 H [7,8,11,12,13,14]
[7] DATI2 H [7,8,11,12,13,14]
[7] DATII H [7,8/2,11,12,13,14]
[7] DATIØ H [7,8/2,11,12,13,14]
[7] DATØ9 H [7,8/2,11,12,13,14]
[7] DATØ8 H [7,8/2,11,12,13,14]
OC D0 D1 D2 D3 D4 D5 D6 D7 Q0 Q1 Q2 Q3 Q4 Q5 Q6 Q7 EN
E32
[8] LAT DI5 H [3]
[8] LAT DI4 H [3]
[8] LAT DI3 H [3]
[8] LAT DI2 H [3]
[8] LAT DII H [3]
[8] LAT DIØ H [3]
[8] LAT DØ9 H [3]
[8] LAT DØ8 H [3]
[5] OUT EN L [3/5,8/2]
[8] CSR OC L [8]
74LS373
EN OC
[8] CSRII H [8]
[8] CSRIØ H [8]
[8] CSRØ9 H [8]
[8] CSRØ8 H [8]
[8] CSRØ7 H [8]
[8] CSRØ6 H [8]
[8] CSRØ5 H [8]
E2Ø
[8] LAT DØ7 H [3]
[8] LAT DØ6 H [3]
[8] LAT DØ5 H [3]

[8] DATA OC L [8/2]
[7] DATØ7 H [7,8/2,11,12,13,14]
[7] DATØ6 H [7,8/2,11,12,13,14]
[7] DATØ5 H [7,8/2,11,12,13,14]
[7] DATØ4 H [7,8,11,12,13,14]
[7] DATØ3 H [7,8,11,12,13,14]
[7] DATØ2 H [7,8/2,11,12,13,14]
[7] DATØI H [7,8,11,12,13,14]
[7] DATØØ H [7,8/2,11,12,13,14]
OC D0 D1 D2 D3 D4 D5 D6 D7 Q0 Q1 Q2 Q3 Q4 Q5 Q6 Q7 EN
E26
[8] LAT DØ4 H [3]
[8] LAT DØ3 H [3]
[8] LAT DØ2 H [3]
[8] LAT DØI H [3]
[8] LAT DØØ H [3]
[5] OUT EN L [3/5,8/2]
[8] OC L [3,8]
74LS373
EN OC
[8] CSRI5 H [8]
[8] CSRI4 H [8/2]
[8] CSRØ2 H [8]
[8] CSRØØ H [8,7]
E14

[8] X ADD OC L [8]
74LS373
EN OC
[8] LAT AI8 H [8]
[8] LAT AI9 H [8]
[8] LAT A2Ø H [8]
[8] LAT A2I H [8]
E9

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
128K X 18 BIT MOS MEM	D	CS	M7891-Ø-1	E
SCALE ——	SHEET 8 OF 14		DIST.	

M7891-Ø-1 DCS D

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NOTE:
R36 THRU R56 PIN 4 GOES TO +5V

[6] RAS Ø H [9/2] → 74LS240 E69 → [9] PRAS Ø L [11]
[6] RAS 1 H [9/2] → 74LS240 E69 → [9] PRAS 1 L [11]
[6] RAS 2 H [9/2] → 74LS240 E69 → [9] PRAS 2 L [12]
[6] RAS 3 H [9/2] → 74LS240 E69 → [9] PRAS 3 L [12]
[6] RAS 4 H [9/2] → 74LS240 E69 → [9] PRAS 4 L [13]
[6] RAS 5 H [9/2] → 74LS240 E69 → [9] PRAS 5 L [13]
[6] RAS 6 H [9/2] → 74LS240 E69 → [9] PRAS 6 L [14]
[6] RAS 7 H [9/2] → 74LS240 E69 → [9] PRAS 7 L [14]

[6] CAS H [5,9/2] → 74LS240 E68 → [9] PCAS Ø L [11/2,12/2,13/2,14/2]
[6] MUX A1 H [9,10] → 74LS240 E68 → [9] PA1 L [11/2,12/2,13/2,14/2]
[6] MUX A2 H [9,10] → 74LS240 E68 → [9] PA2 L [11/2,12/2,13/2,14/2]
[6] MUX A3 H [9,10] → 74LS240 E68 → [9] PA3 L [11/2,12/2,13/2,14/2]
[6] MUX A4 H [9,10] → 74LS240 E68 → [9] PA4 L [11/2,12/2,13/2,14/2]
[6] MUX A5 H [9,10] → 74LS240 E68 → [9] PA5 L [11/2,12/2,13/2,14/2]
[6] MUX A6 H [9,10] → 74LS240 E68 → [9] PA6 L [11/2,12/2,13/2,14/2]
[6] MUX A7 H [9,10] → 74LS240 E68 → [9] PA7 L [11/2,12/2,13/2,14/2]

[6] RAS Ø H [9/2] → 74LS240 E86 → [9] RAS Ø L [11/2]
[6] RAS 1 H [9/2] → 74LS240 E119 → [9] RAS 1 L [11/2]
[6] RAS 2 H [9/2] → 74LS240 E136 → [9] RAS 2 L [12/2]
[6] RAS 3 H [9/2] → 74LS240 E136 → [9] RAS 3 L [12/2]
[6] RAS 4 H [9/2] → 74LS240 E169 → [9] RAS 4 L [13/2]
[6] RAS 5 H [9/2] → 74LS240 E186 → [9] RAS 5 L [13/2]
[6] RAS 6 H [9/2] → 74LS240 E2Ø3 → [9] RAS 6 L [14/2]
[6] RAS 7 H [9/2] → 74LS240 E2Ø3 → [9] RAS 7 L [14/2]

[6] CAS H [5,9/2] → 74LS240 E86 → [9] CAS Ø L [11/2]
[6] CAS 1 L [11/2] → 74LS240 E119
[6] CAS 2 L [12/2] → 74LS240 E136
[6] CAS 3 L [12/2] → 74LS240 E136
[6] CAS 4 L [13/2] → 74LS240 E169
[6] CAS 5 L [13/2] → 74LS240 E186
[6] CAS 6 L [14/2] → 74LS240 E2Ø3
[6] CAS 7 L [14/2] → 74LS240 E2Ø3

ATTENTION USER:
E2Ø3 IS NOT USED ON PRIMARY VARIATIONS AA,BA,CA
E169, E186 ARE NOT USED ON PRIMARY VARIATIONS AA,BA
E136 IS NOT USED ON PRIMARY VARIATION AA

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
128K X 18 BIT MOS MEM	D	CS	M7891-Ø-1	E
SCALE	SHEET 9 OF 13	DIST.		

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[6] MUX A1 H [9,10]
[6] MUX A3 H [9,10]
[6] MUX A5 H [9,10]
[6] MUX A7 H [9,10]
[6] MUX A2 H [9,10]
[6] MUX A4 H [9,10]
[6] MUX A6 H [9,10]

E119 R44 [10] AA1 L [11/4]
E119 R45 [10] BA1 L [12/4]
E136 R52 [10] CA1 L [13/4]
E186 R53 [10] DA1 L [14/4]

E86 R43 [10] AA3 L [11/4]
E119 R46 [10] BA3 L [12/4]
E169 R51 [10] CA3 L [13/4]
E186 R54 [10] DA3 L [14/4]

E86 R41 [10] AA5 L [11/4]
E136 R47 [10] BA5 L [12/4]
E169 R49 [10] CA5 L [13/4]
E203 R55 [10] DA5 L [14/4]

E86 R41 [10] AA7 L [11/4]
E136 R47 [10] BA7 L [12/4]
E169 R49 [10] CA7 L [13/4]
E203 R55 [10] DA7 L [14/4]

E86 R44 [10] AA2 L [11/4]
E119 R45 [10] BA2 L [12/4]
E169 R52 [10] CA2 L [13/4]
E186 R53 [10] DA2 L [14/4]

E86 R42 [10] AA4 L [11/4]
E136 R48 [10] BA4 L [12/4]
E169 R50 [10] CA4 L [13/4]
E203 R56 [10] DA4 L [14/4]

E86 R42 [10] AA6 L [11/4]
E136 R48 [10] BA6 L [12/4]
E169 R50 [10] CA6 L [13/4]
E203 R56 [10] DA6 L [14/4]

[6] WTBT Ø H [10]
E119 R46 [10] WTBT Ø L [11/4,12/4,13/2, 14/2]
E186 R54 [10] WTBT 1 L [13/2,14/2]

[6] WTBT 1 H [10]
E119 R44 [10] WTBT 2 L [11/4,12/4,13/2, 14/2]
E186 R52 [10] WTBT 3 L [13/2,14/2]

ATTENTION USER:
E203 IS NOT USED ON PRIMARY VARIATIONS AA,BA,CA
E169, E186 ARE NOT USED ON PRIMARY VARIATIONS AA,BA
E136 IS NOT USED ON PRIMARY VARIATION AA

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
128K X 18 BIT MOS MEM	D	DCS	M7891-0-1	E
SCALE	SHEET 10 OF 14	DIST.		

DCS M7891-0-1 REV E

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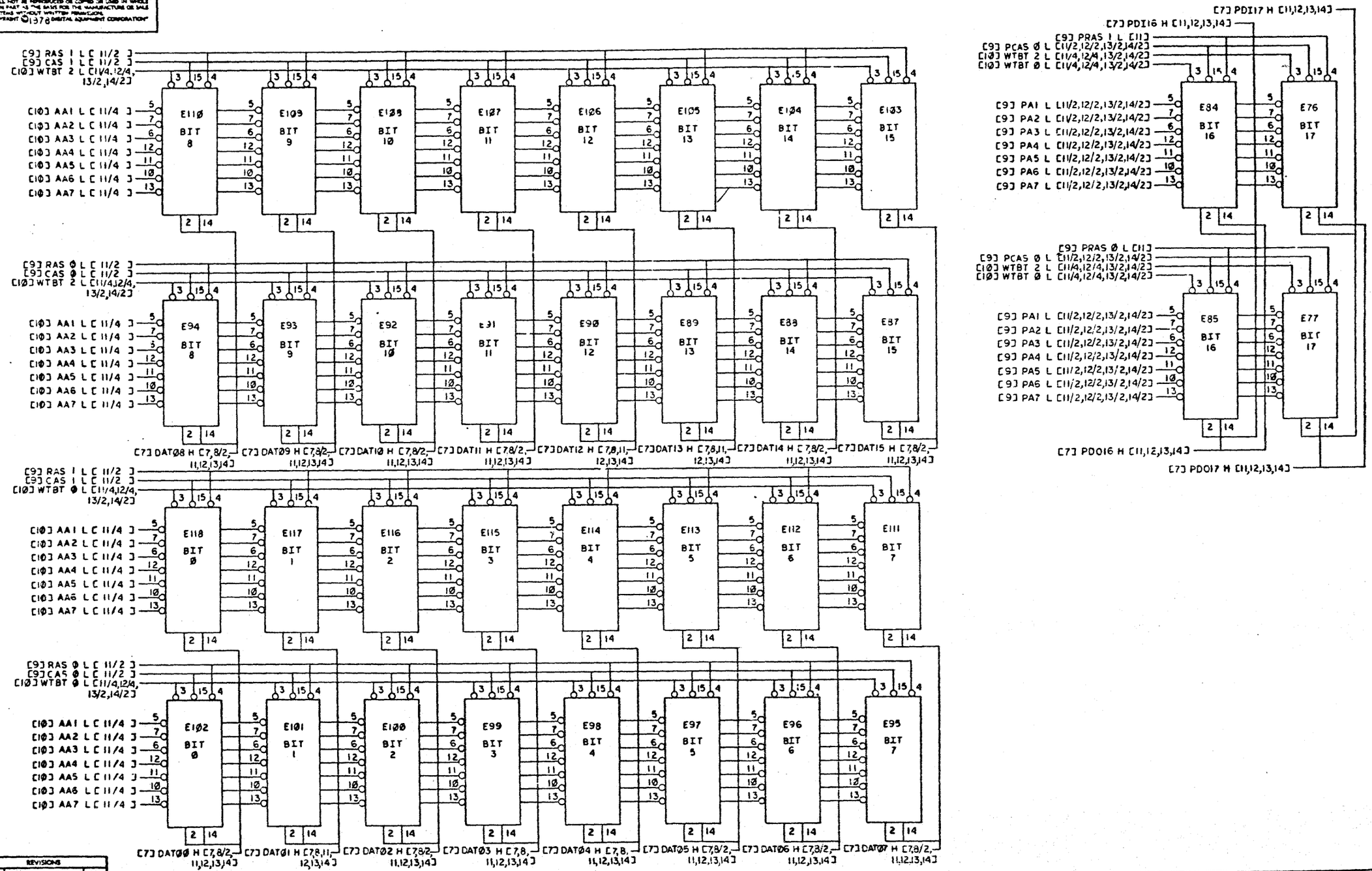

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
128K X 18 BIT MOS MEM	D	CS	M7891-0-1	E
SCALE —	SHEET 11 OF 14	DIST.		

M7891-0-1 E
DEC CODE DCS

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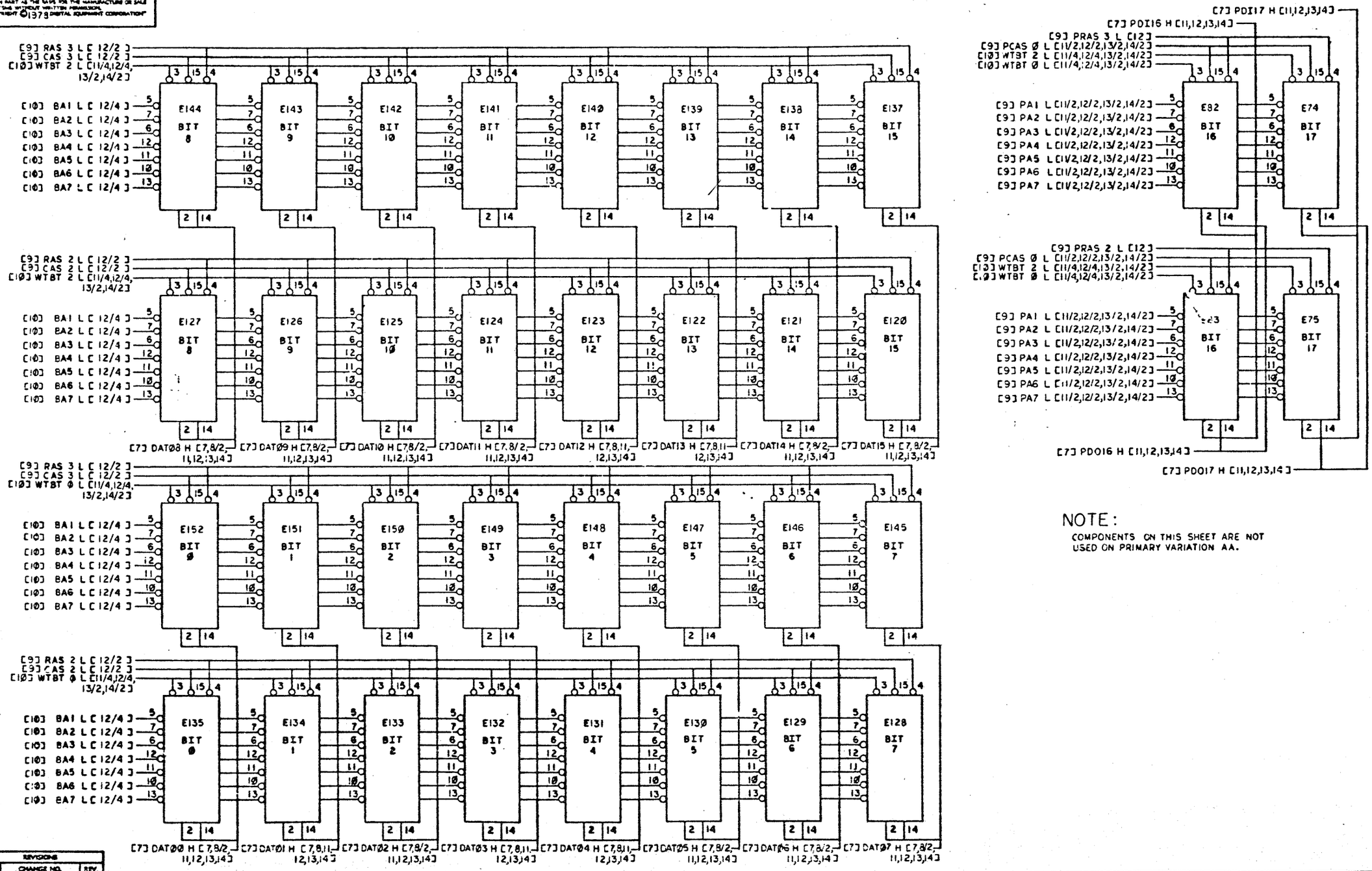

NOTE:
COMPONENTS ON THIS SHEET ARE NOT USED ON PRIMARY VARIATION AA.

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
128K X 18 BIT MOS MEM	D	DCS	M7891-0-1	E
SCALE —	SHEET 12 OF 14	DIST.		

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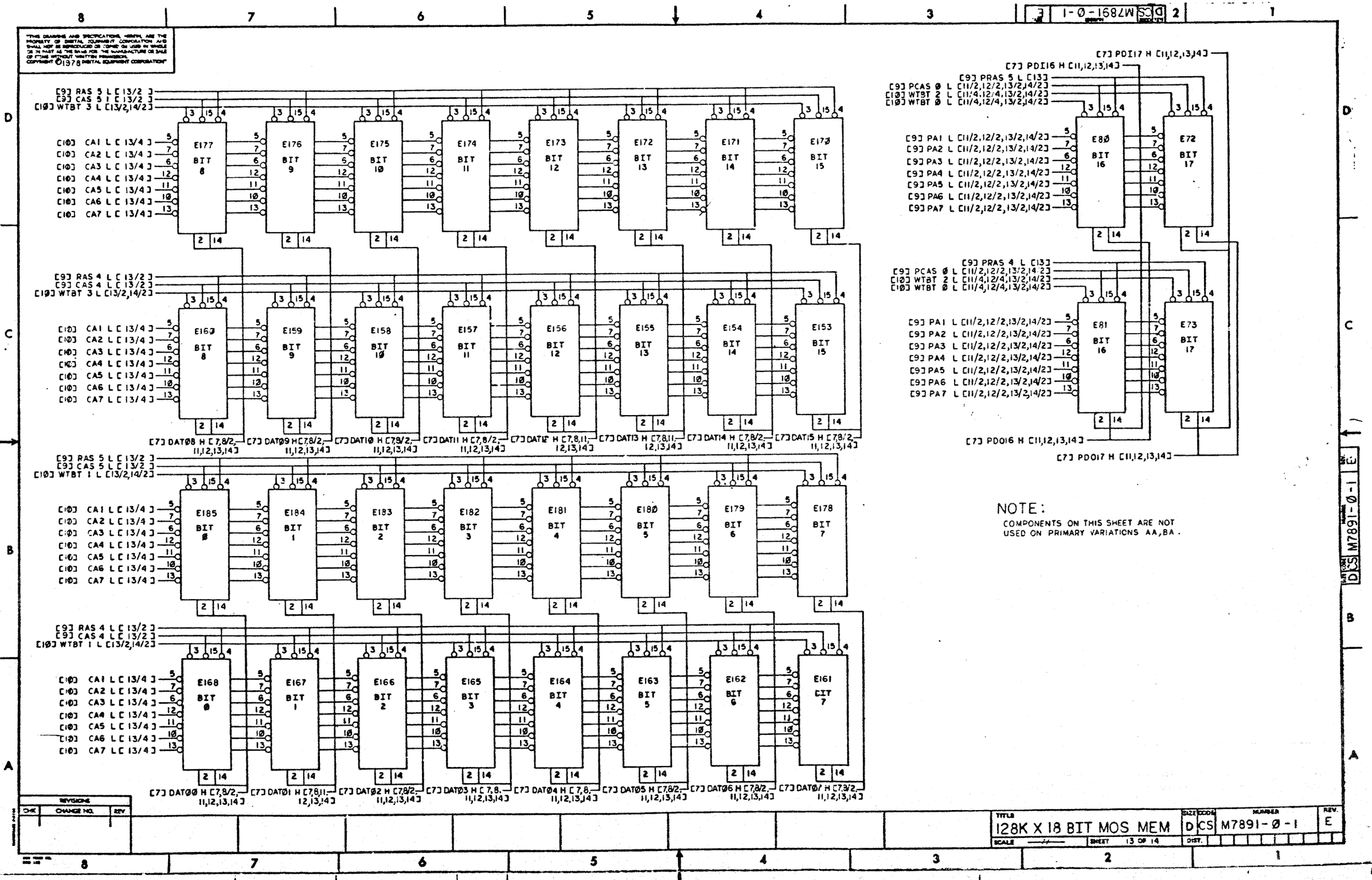

NOTE:
COMPONENTS ON THIS SHEET ARE NOT USED ON PRIMARY VARIATIONS AA, BA.

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
128K X 18 BIT MOS MEM	D	CS	M7891-0-1	E
SCALE —/— SHEET 13 OF 14 DIST.				

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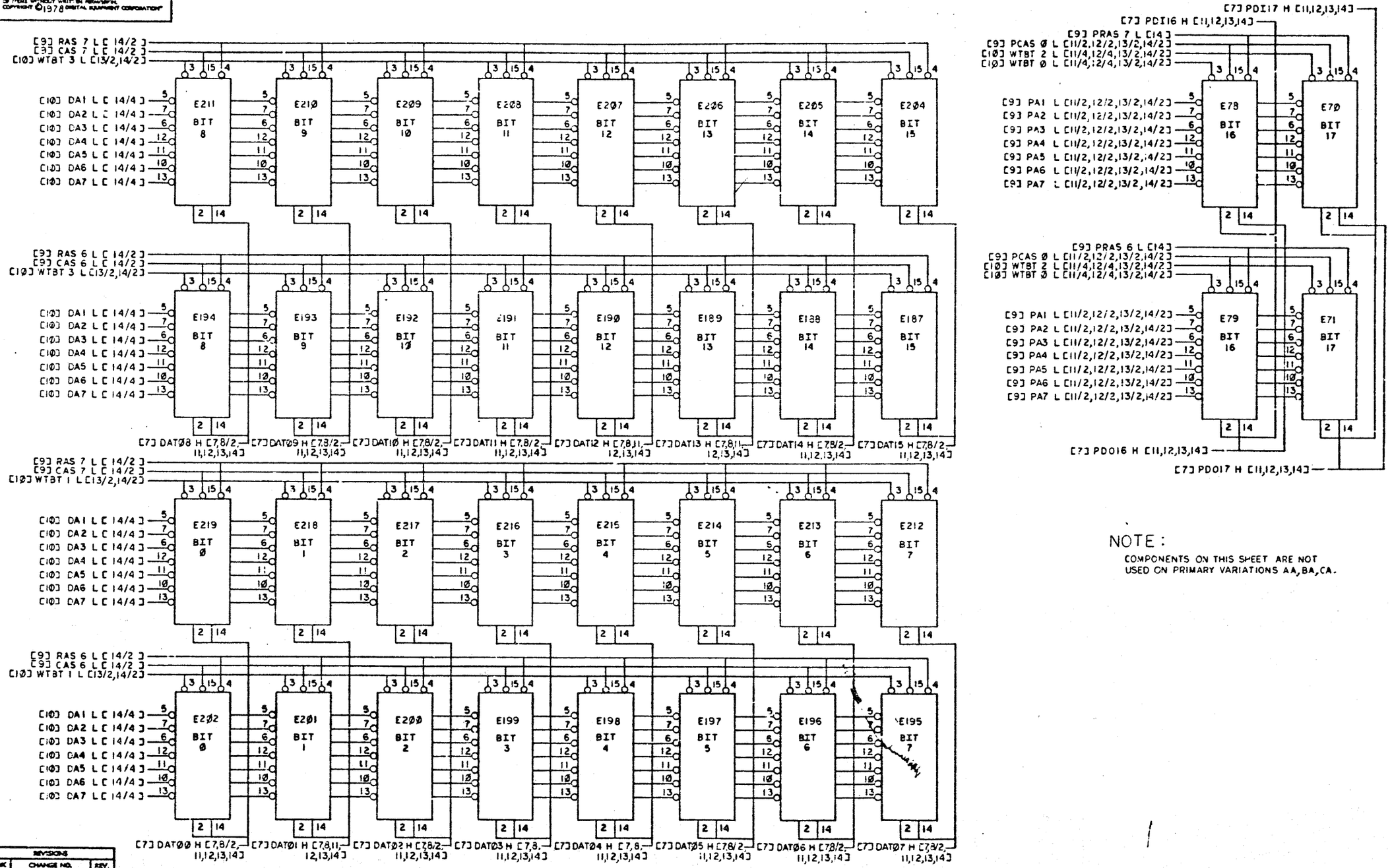

NOTE :

COMPONENTS ON THIS SHEET ARE NOT USED ON PRIMARY VARIATIONS AA, BA, CA.

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE: 128K X 18 BIT MOS MEM		SIZE	CODE	NUMBER	REV.
SCALE:	SHEET 14 OF 14	D	CS	M7891-0-1	E
	DIST.				

DCS M7891-0-1 E

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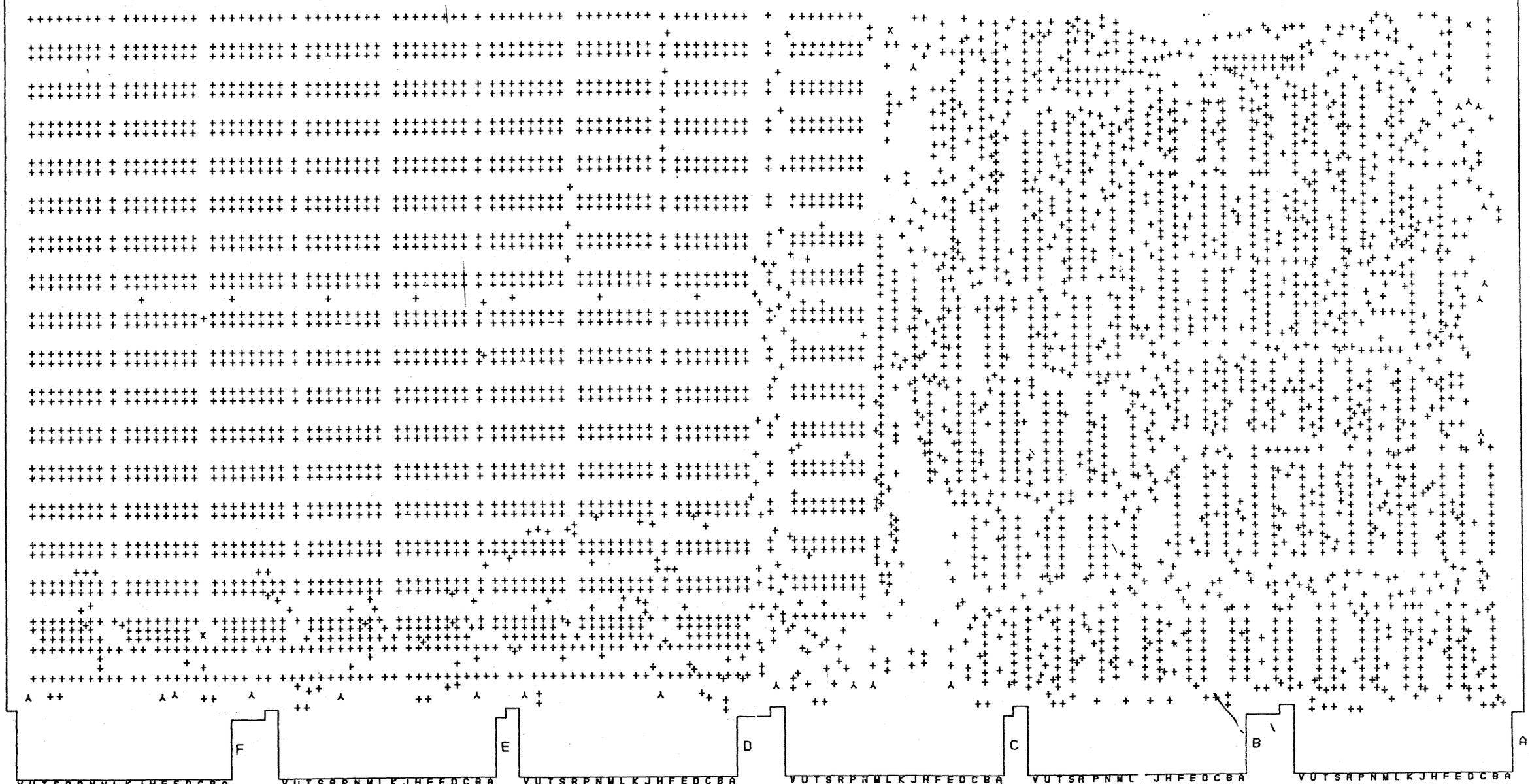
8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

D | C | B | A

COMPONENT SIDE VIEW



NOTES:
1. USE ½ OZ. CU. ON LYRS. 1 & 4 AND 2 OZ. CU. ON LYRS. 2 & 3.
2. CROSSHATCHED AREAS ARE SOLDER-MASK REWORKED.
3. REMOVE UNUSED FINGERS EXCEPT: AV1, BA1, CV1, DA1, DV1, EA1, EV1, FA1, FV1, AV2, EV2, CV2, DA2, DV2, EA2, EV2, FA2, AND FV2.

STEP E	↑ Y AXIS ____ STEP ____ TIMES
REPEAT	→ X AXIS ____ STEP ____ TIMES

REV	CHK	CHANGE NO	DATE
B		REDRAWN M7891-ML5	8/8

DIMENSIONAL TOLERANCE
INCHES
XXX = ±.005
XX = ±.020
X = ±.040
ANGLE = ±0° 30'

HOLE DATA

SYMBOL	+	⅄	X	✦	Z	W	Δ	◫	◈	*
FIN. HOLE SIZE	.038	.042	.128	.032						
PLATED	X	X	OPT	X						
NON PLATED										
QTY.	5126	21	3	5						
◯-OFF GRD HLE										
DRILL SIZE										

.025 GRID UNLESS INDICATED

BOARD FABRICATION INFORMATION

BOARD SIZE HEX X 8,5
BOARD DATA DWG. #E-MD-7606098-0-0
BOARD MAT'L FL-GF-.052-C SEE NOTE 1
DEC PS - 14000000
QTY. OF LAYERS 4
PTH, Y PRINT AND ETCH
SOLDER MASK Y SIDE 2 - BOTH SIDES X
GOLD CONTACTS X BOTTOM X TOP

SIGNATURES	DATE
DRN. Linda Peterson	9/3/80
CHK'D. J. Sherman	13/Nov 80
MECH. ENG. G. Lewis	11-12-80
PROJ. ENG. R. Lewis	11-24-80
PROD. [illegible]	11/25/80

digital

TITLE DRILL AND ETCH DRAWING

SIZE	CODE	NUMBER	REV
D	MD	5013399-0-0	B

SHT. 1 OF 7
NEXT HIGHER ASSY. D-UA-M7891-0-0
ETCH REV. C-P2

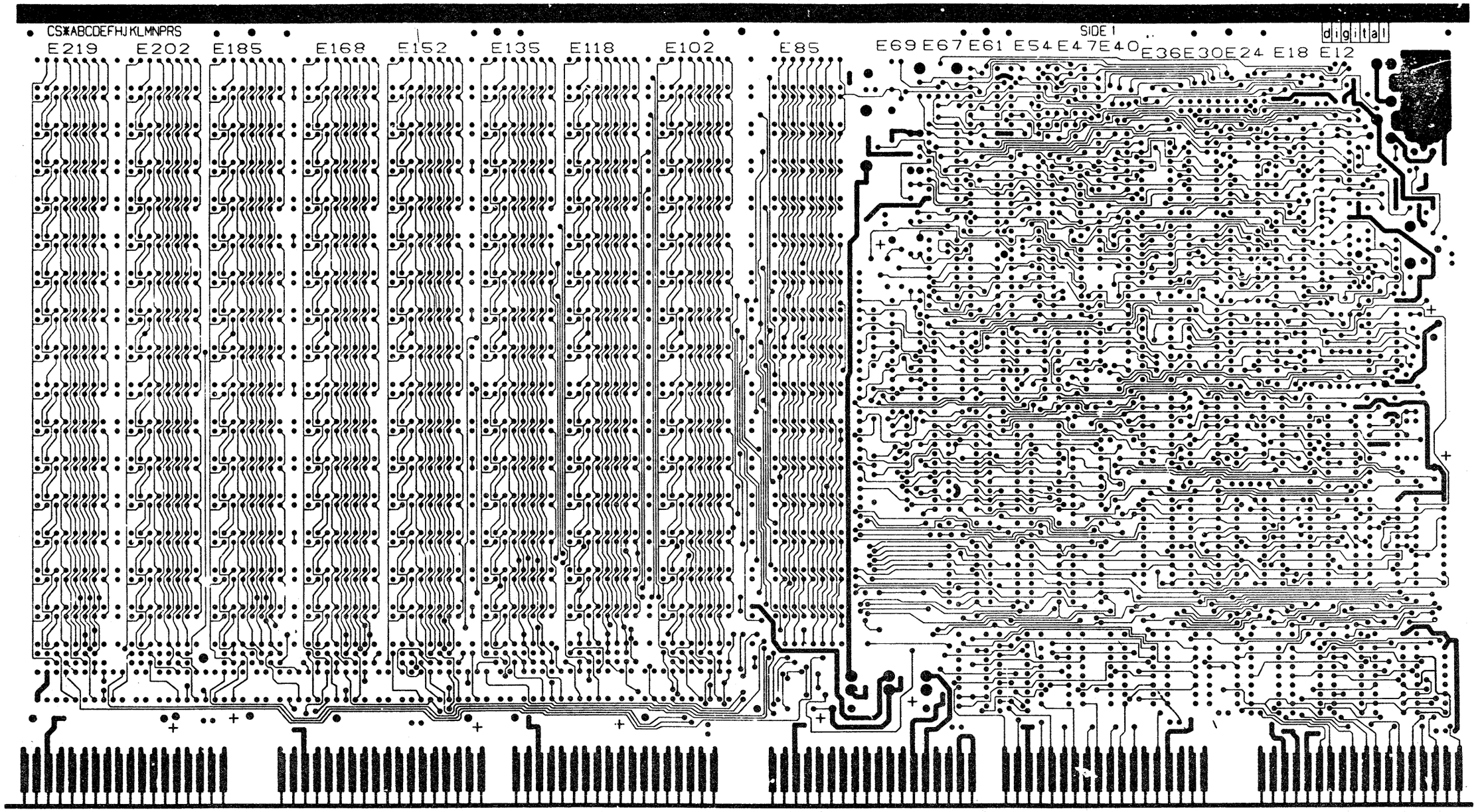
WO#

8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

12 / 13 MIL
M7891 5013399C-P2

LAYER 1

L1

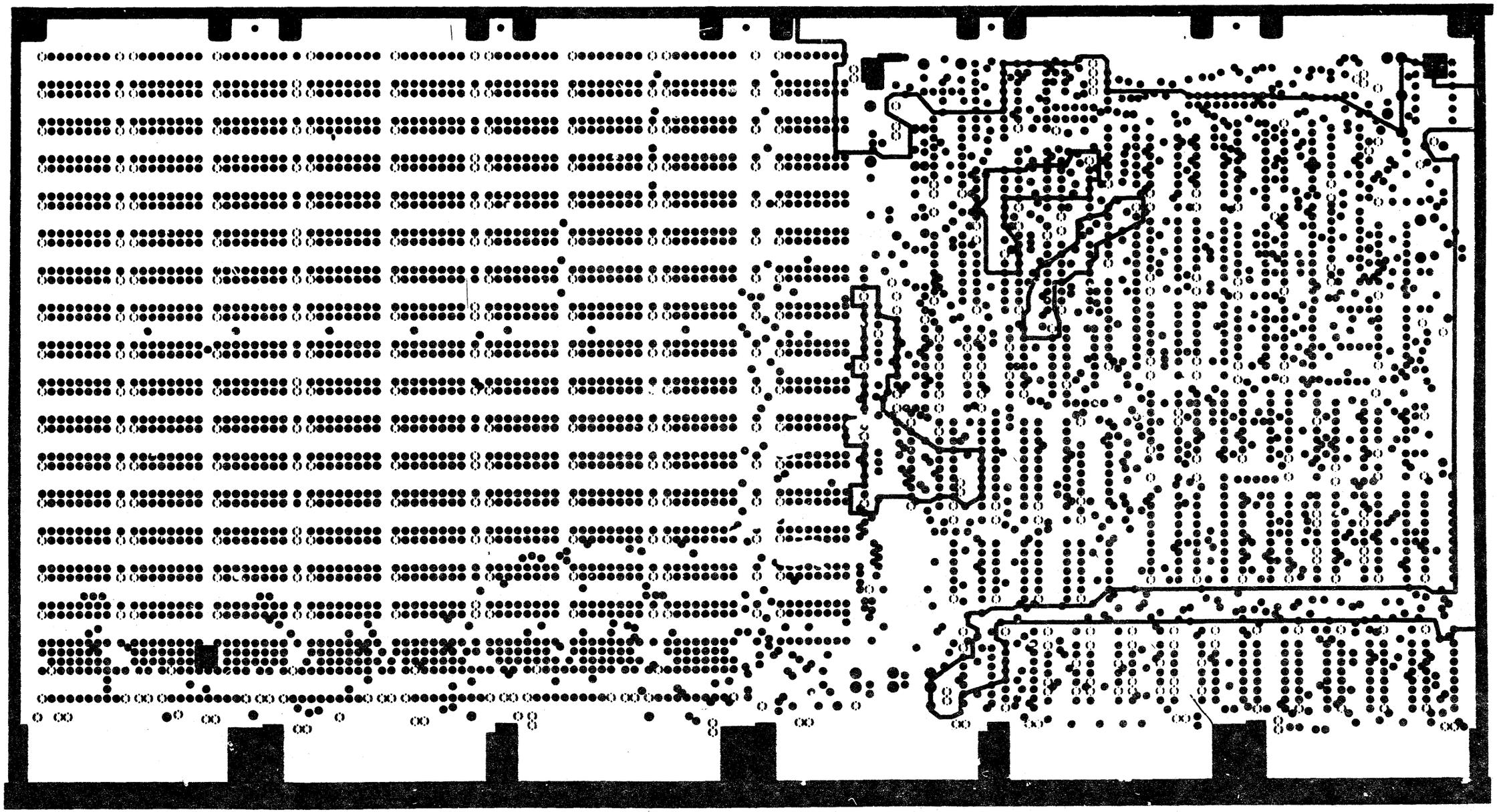


TITLE	SIZE	CODE	NUMBER	REV
DRILL & ETCH DRAWING	D	MD	5013399-Ø-Ø	B
SCALE 2/1	SHEET 2 OF 7		DIST	

D MD5013399-Ø-Ø B

M7891 5013399C-P2

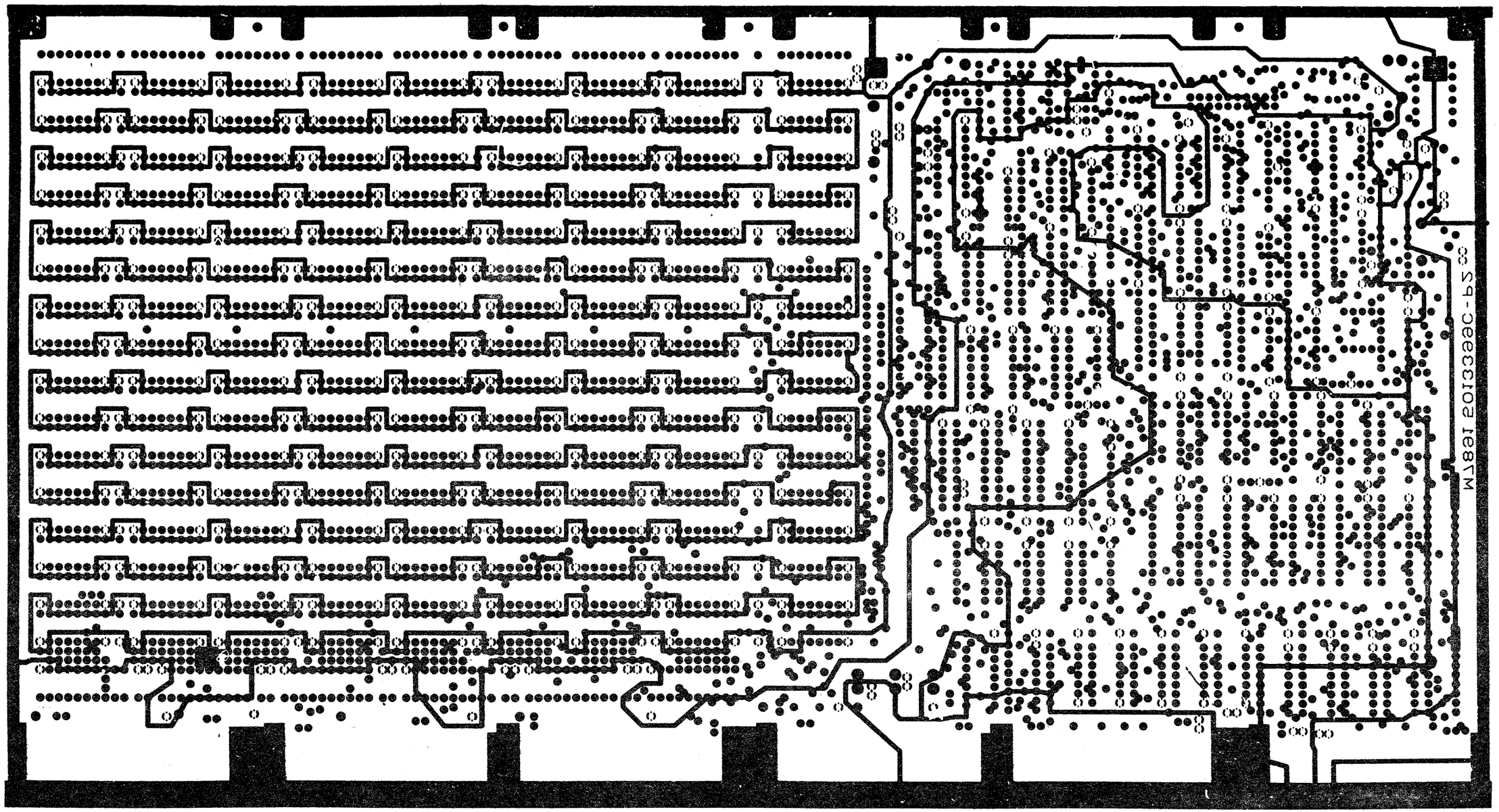
LAYER 2



TITLE	SIZE	CODE	REV
DRILL & ETCH DRAWING	D	MD5013399-0-0	B
SCALE 2/1	SHEET 3 OF 7		

© 1984

LAYER 3



TITLE					
DRILL & ETCH DRAWING		D	MD	5013399-0-0	B
SCALE 2/1	SHEET 4 OF 7				

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12 \ 13 MIL

LAYER 4

SIDE 2
128K X 18 20NS MEM MT88T

REVISIONS			
D	MD5013399-0-0	B	

CHG	CHANGE NO.	QTY

TITLE: DRILL & ETCH DRAWING	SIZE: D	CODE: MD	NUMBER: 5013399-0-0
SCALE: 2/1	SHEET 5 OF 7	DIST	REV: B

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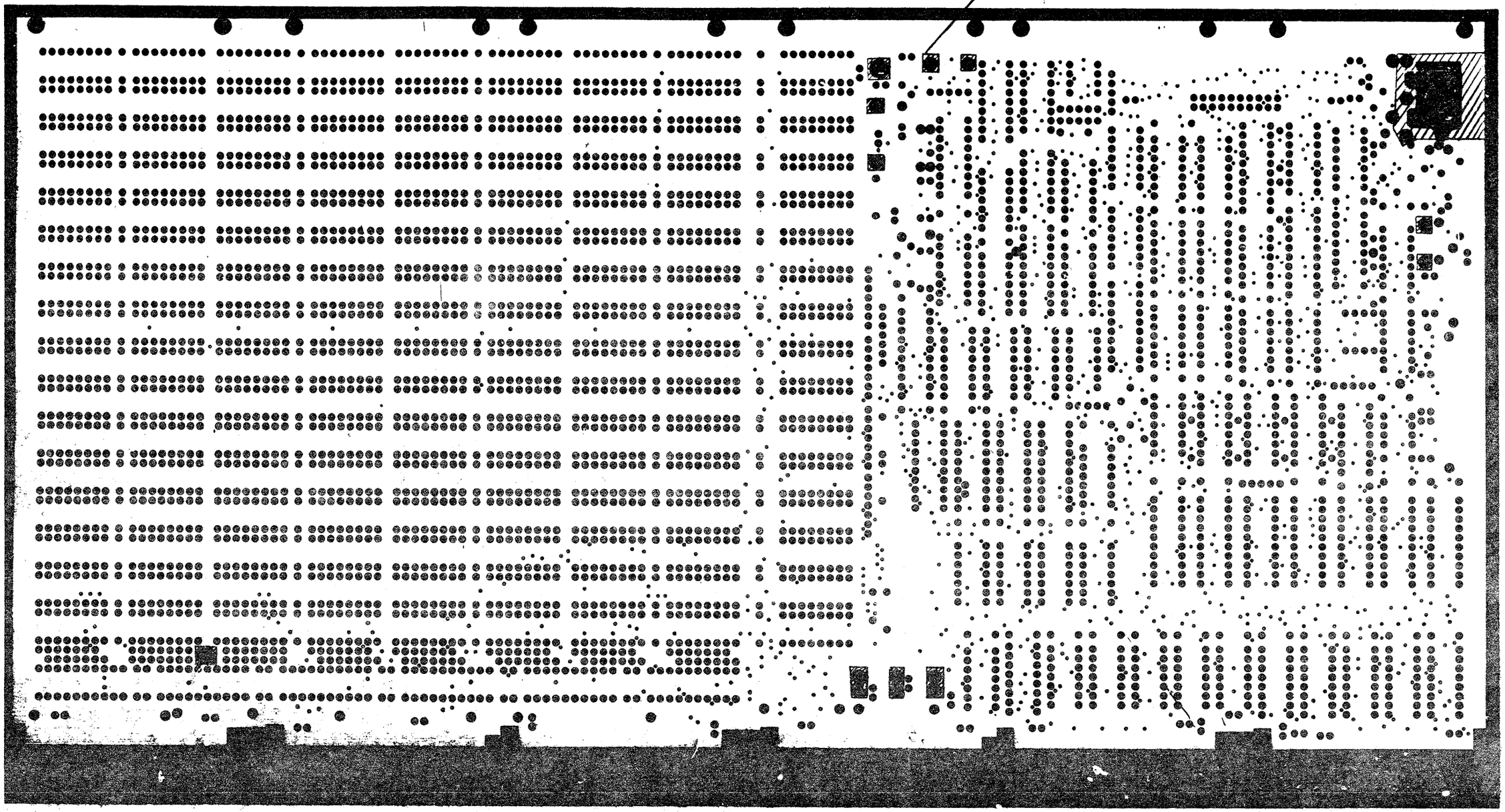
SOLDERMASK - LAYER 1

SEE SHEET 1, NOTE 2
12 PLC'S



REVISIONS		
CHK	CHANGE NO	REV

TITLE	SIZE	CODE	NUMBER	REV.
DRILL & ETCH DRAWING	D	MD	5013399-0-0	B
SCALE 2/1	SHEET 6 OF 7			

DMD5013399-0-0 B

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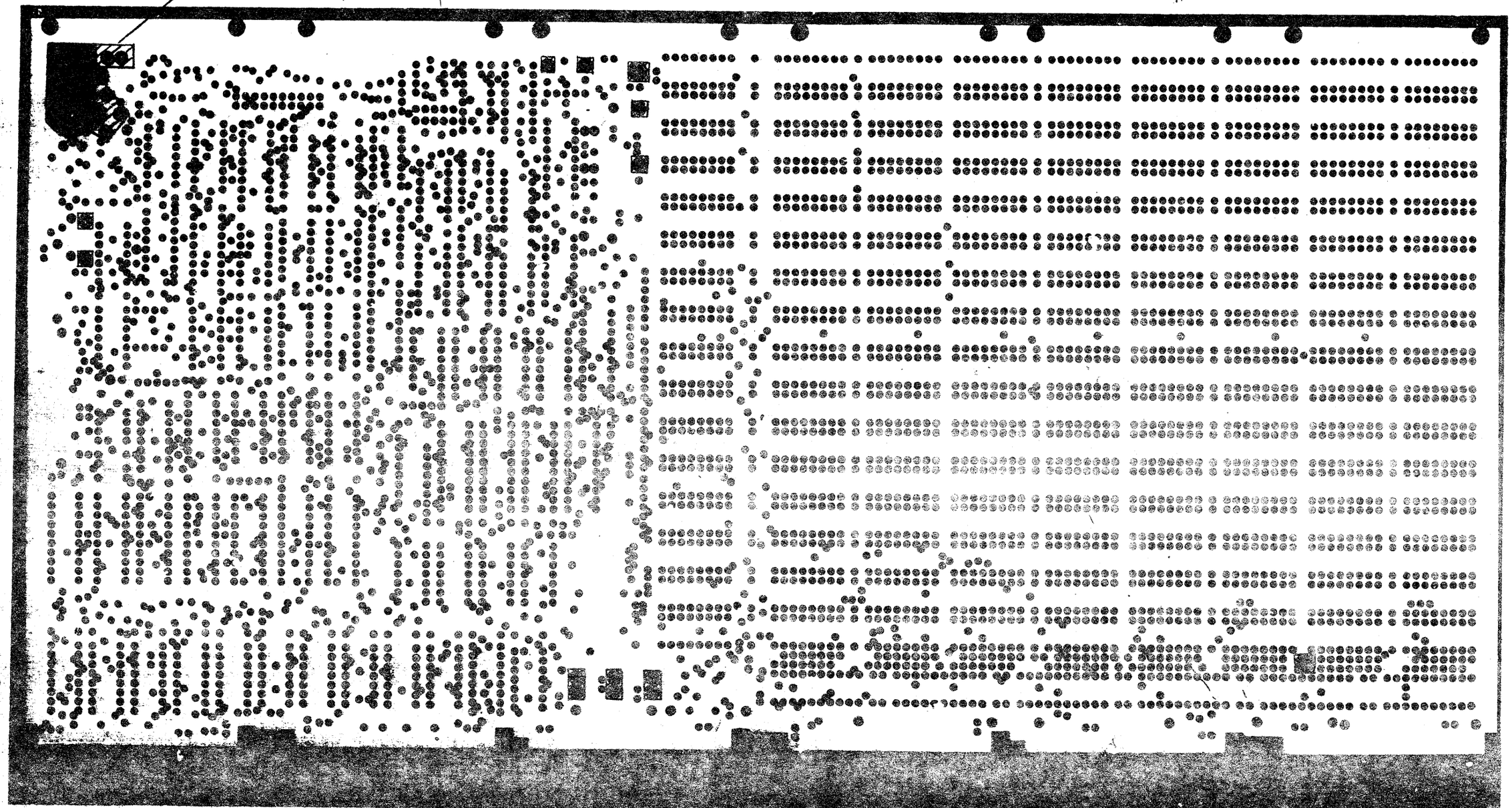
SOLDERMASK - LAYER 4

NOTE 2 (REF.)



REVISIONS		
CHK	CHANGE NO	REV

TITLE	SIZE	CODE	NUMBER	REV.
DRILL & ETCH DRAWING	D	MD	5Ø13399-Ø-Ø	B
SCALE 2/1	SHEET 7 OF 7		DIST.	

MD5Ø13399-Ø-ØB

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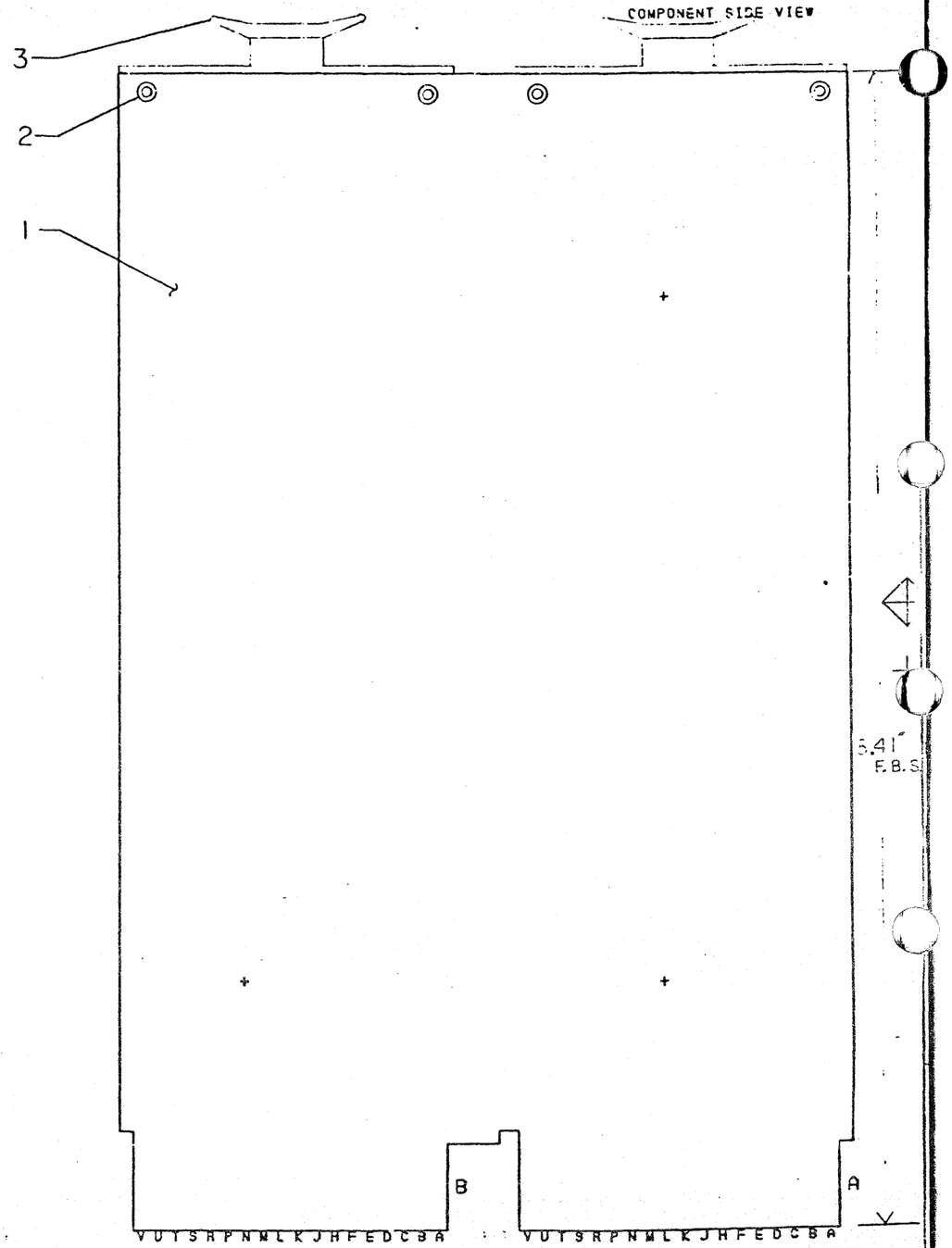
COMPONENT SIDE VIEW



NOTES:
1. STEP & REPEAT - 2 WL 2

STEP & REPEAT	↑ Y AXIS	STEP 2 TIMES
	→ X AXIS	STEP 1 TIMES

CH	CHANGE NO	REV

ETCH REV. A

SIGNATURES	DATE
DRN.	7-12-73
CHK'D.	7-12-73
MECH. ENG.	
PROJ. ENG.	
PROD.	5-5-73

digital

TITLE
DOUBLE GRANT

SCALE	SIZE	CODE	NUMBER	REV
2/1	D	1 A	G7273-0-0	X

SHT. 1 OF 3
NEXT HIGHER ASSY. H-DD-G7273-0

TL 1 MS# [illegible]

G7273 5013871A

digital

SIDE 1

C5*ABCDEFGHJKL

NPG AND BUS GRANT

CONTINUITY

G7273 5013871A

digital

SIDE 1

C5*ABCDEFGHJKL

NPG AND BUS GRANT

CONTINUITY

DOUBLE GRANT

DUA G7273-0-0

L4 L4

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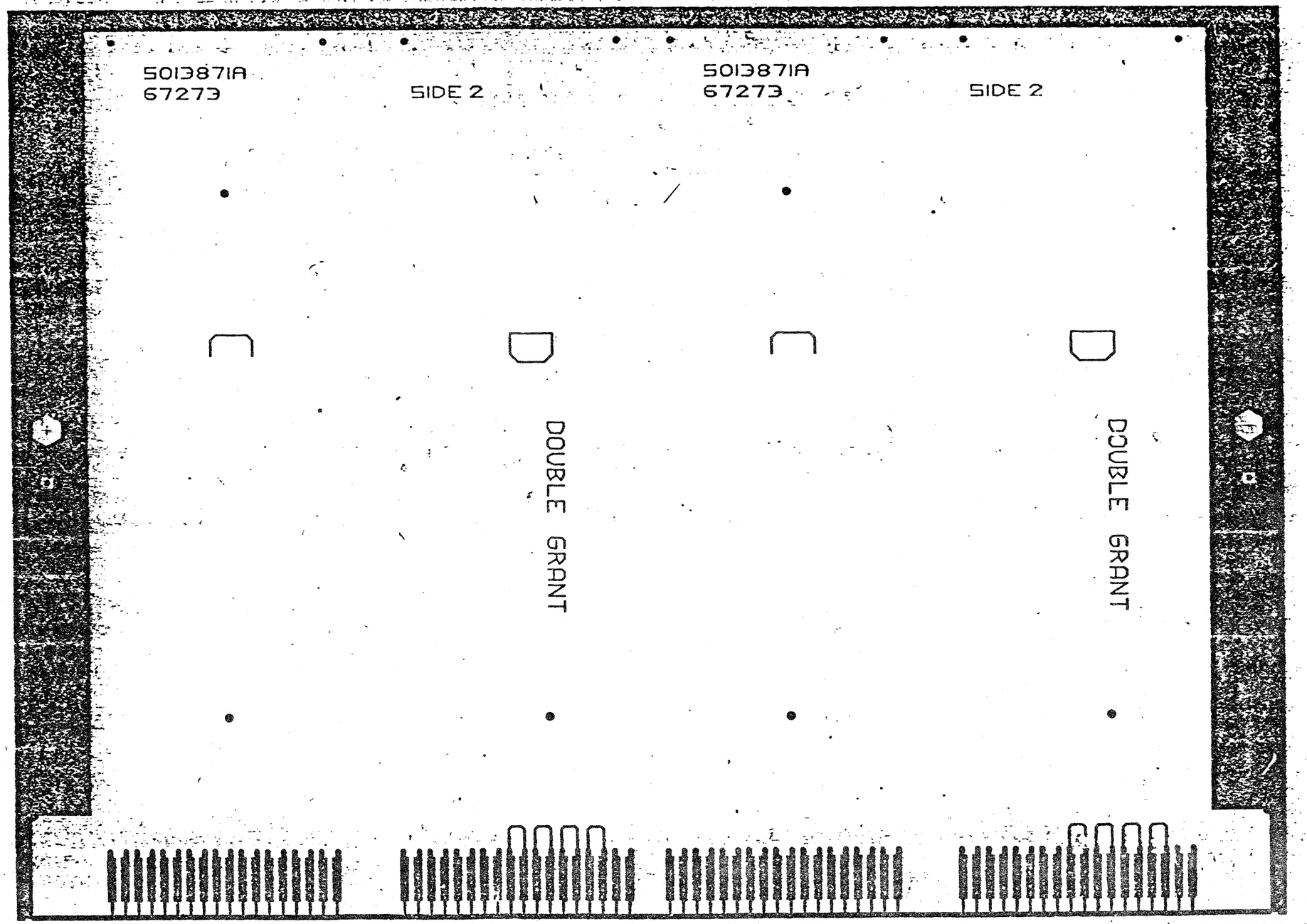

REVISIONS		
LTR	CHANGE NO	REV

TITLE	SIZE	CODE	NUMBER	REV
DOUBLE GRANT	D	UA	G7273 - 0 - 0	X
SCALE 2 - 1	SHEET 3 OF 3	DIST		

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FIELD MAINTENANCE PRINT SET

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TABLE OF CONTENTS

B-TC-H785Ø-Ø-1	FIELD MAINTENANCE PRINT SET
MPØØ575	H785Ø PRINT (MP)
E-UA-H785Ø-	REGULATOR BATTERY BACKUP ASSY (H785Ø)
D-UA-5412343-YA	REGULATOR BATTERY BACKUP (H785Ø)
D-CS-5412343-YA	REGULATOR BATTERY BACKUP (H785Ø)
B-PL-5412343-YA	REGULATOR BATTERY BACKUP (H785Ø)
D-UA-5413013-0-0	12V REGULATOR BD.
D-CS-5413013-0-1	12V REGULATOR BD.
B-PL-5413013-0-0	12V REGULATOR BD.
D-UA-5412385-0-0	H785 CONTROL BD.
D-CS-5412385-0-1	H785 CONTROL BD.
K-PL-5412385-0-0	H785 CONTROL BD.
D-UA-5412411-0-0	INPUT RECTIFIER BD.
D-CS-5412411-0-1	INPUT RECTIFIER BD.
K-PL-5412411-0-0	INPUT RECTIFIER BD.

UNIT VARIATIONS COVERED BY THIS PRINT SET

H785Ø
Field Maintenance Print Set

Digital Equipment Corporation

PRINT SET ORDER NO. MPØØ575

REVISIONS	REV.	CHG. NO.	DATE

USED ON OPTION/MODEL	
11/60	

SHEET I OF 1

DRN.	G. DRAYTON	DATE	30DEC77
CHK'D	W. Bowers	DATE	3/28/78
PROJ. ENG.	W. Bowers	DATE	3/28/78
FIELD SERV.	W. Tracy	DATE	3/28/78

TITLE: H785Ø

digital

SIZE	CODE	NUMBER	REV.
B	TC	H785Ø-Ø-1	

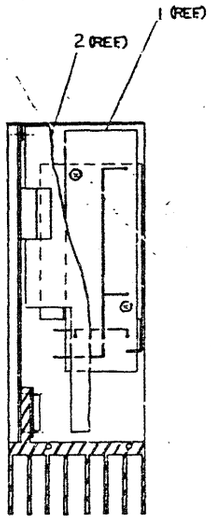
DIST.

EN-01124-16-N678 (327)

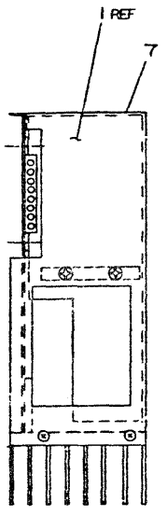
DRB 124

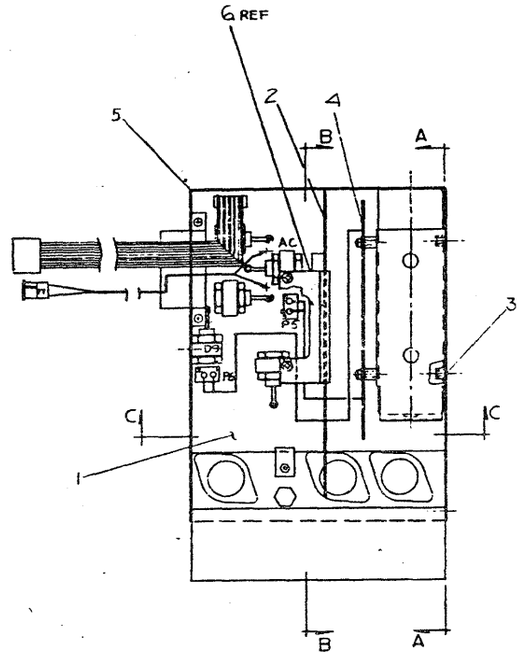
NOTES:

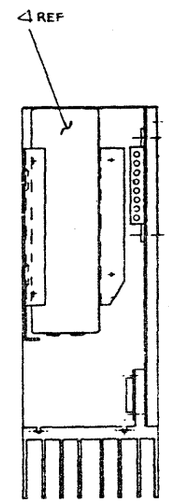
1. FOR INTERPLANT PACKAGING ORDER PACKAGING MATERIAL PER A-SP-370074-0-0.



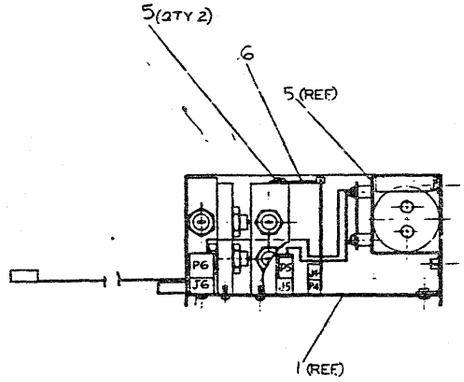
SECTION B-B







SECTION A-A



SECTION C-C

SEE NOTE 1	A/R	PACKAGING INSTRUCTIONS (INTERPLANT).	A-SP-370074-0-0	8
	1	DECAL H7850	7416945-13	7
	1	RETAINER CARD	B-2-0-7416124-0-0	6
	2	SCR PHL PAN HD *4-40 X .25	9000501-01	5
	1	BRACKET, CAPACITOR ASSY	CAD-701B527-0-0	4
	4	SCR. PHL. PAN HD. *6-32 X .19	9000010-02	3
	1	H785 CONTROL BOARD	D-UA-9412385-0-0	2
	1	REG. BATTERY BACKUP (H7850)	D-UA-9412383-0-0	1
	QUANTITY & VARIATION	DESCRIPTION (UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES)	DRG. PART NO.	ITEM NO.

DRAWN	
CHECKED	
ENG	
PROJ. ENGR.	
PROD. & TEST ENGR.	
NEXT HIGHER ASSY.	
SCALE	1/1
B-KEY	OF 1
FIRST USED ON	11/80
TITLE	REGULATOR BATTERY BACKUP ASSY (H7850)
B-SP-H7858-3	
SIZE	B
CODE IDENT	5
DRAWING NO.	UAIH7850-0
REV	A
SHEET	1

SEE PARTS LIST

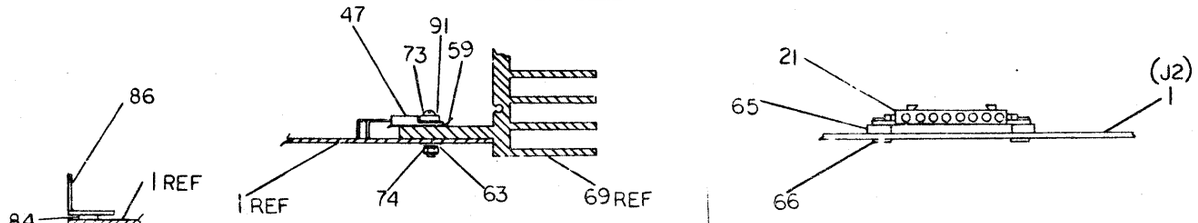
TW

© 1978

UNTWIST ITEM NO 77 AND USE PROPER COLOR.

WIRE TABLE

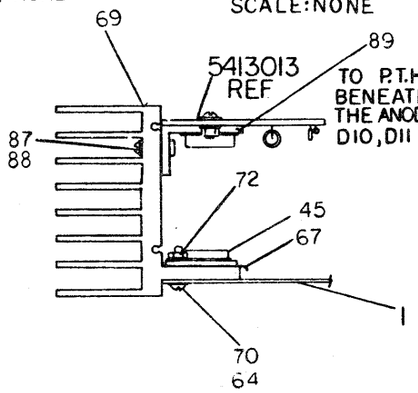
ITEM NO	RUN NO	DESCRIPT. AWG	COLOR	FROM	TO	H7850	LENGTH
77	75	18 TWP	BLK	D11 ANODE		PAD 1	4.50
	76		RED	D10 ANODE		PAD 2	4.50
→	77	18	RED	D9 CATHODE		PAD 3	3.00
→	78	18	RED	D12 CATHODE		PAD 10	3.75
77	79	18 TWP	BLK	D16 ANODE		PAD 11	1.50
	80		RED	D15 ANODE		PAD 6	2.00
77	81	18 TWP	BLK	D17 CATHODE		PAD 7	2.75
	82		RED	D18 CATHODE		PAD 5	2.75
77	83	18 TWP	RED	D13 ANODE		PAD 4	5.50
	84		BLK	D14 ANODE		PAD 8	5.50
→	85	18	BLK	D9 ANODE		PAD 9	3.00



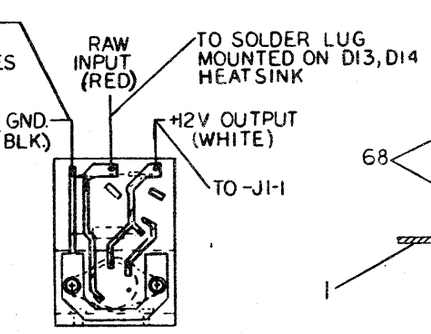
SECTION E-E
SCALE: NONE

SECTION D-D
SCALE: NONE

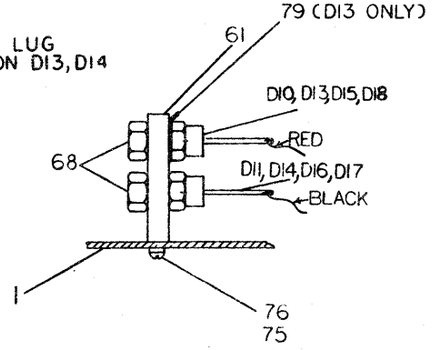
VIEW B-B
SCALE: NONE



VIEW C-C
SCALE: NONE

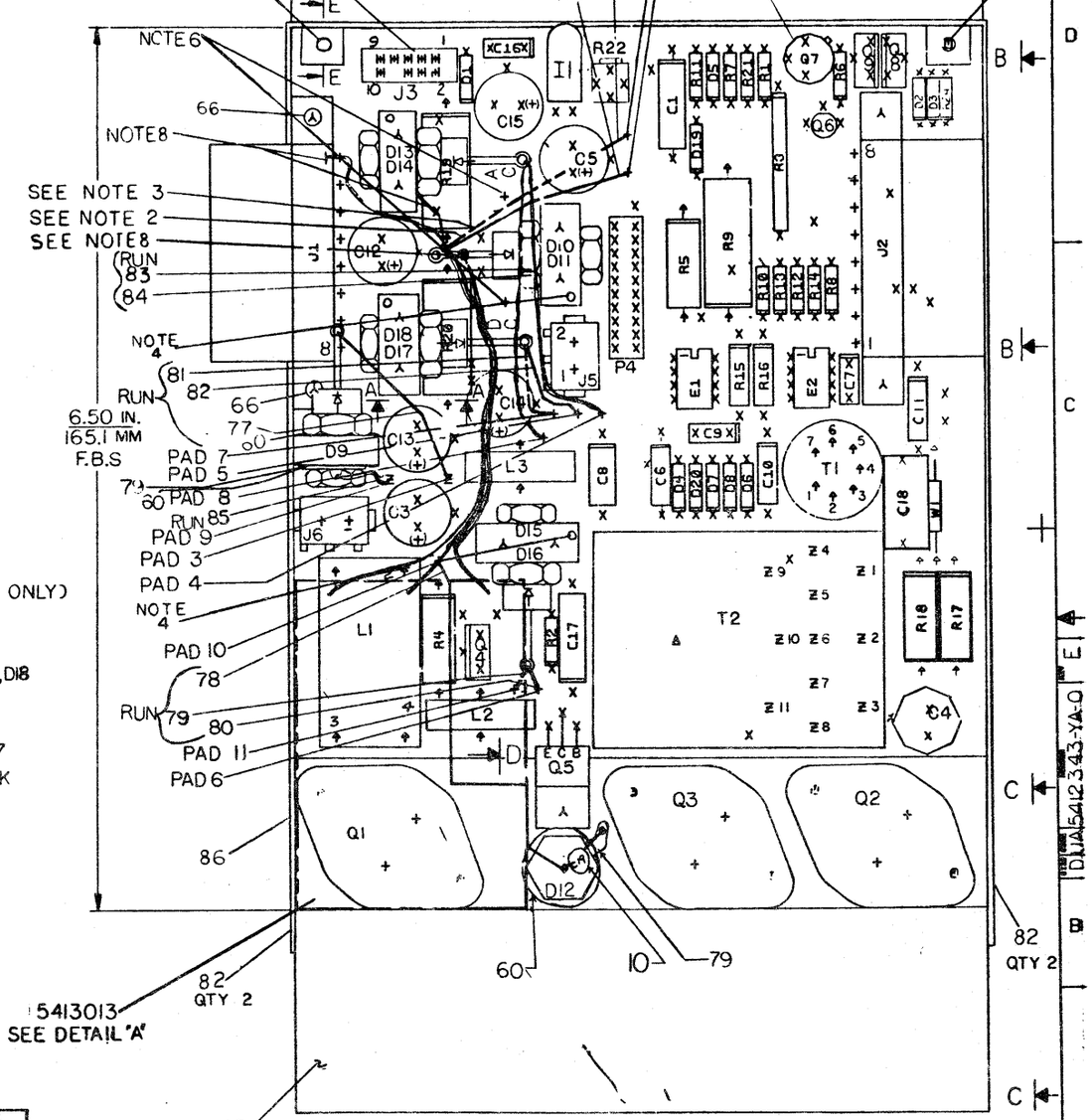


DETAIL 'A'
SEE NOTE #9 & 10
SCALE: NONE



VIEW A-A
SCALE: NONE

TYP. 4 PLACES
(REF SHT 2 OF 2)



NOTES:

1. SEE SHEET 2 OF 2 FOR DIODE WIRING.
2. SOLID LINE INDICATES WIRE FROM THE TOP DIODE. (REF SHT 2 OF 2.
3. DASHED LINE INDICATES WIRE FROM BOTTOM DIODE. REF SHT 2 OF 2.
4. TAPPED HOLE AT TOP OF HEATSINKS MUST FACE PROPER WAY TO ALLOW INSERTION OF CARD GUIDE.

NOTES: CONT.

6. SOLDER ITEM NO 55 AC, DC CABLE TO REGULATOR BOARD V10 WIRE TO PTH MARKED DC. YEL WIRE TO PTH MARKED AC.
7. INSERT ON TO J3 ITEM NO 58
8. INSERT WHITE WIRE FROM EAGLE # 7014302 (WITH FEMALE PIN ATTACHED) INTO PIN #1 OF J1. SOLDER BLACK WIRE FROM CABLE #7014302 IN PTH BENEATH THE ANODES OF D10, D11. SOLDER RED WIRE FROM EAGLE CABLE #7014302 TO THE SOLDER LUG MOUNTED ON D13, D14 HEATSINK

NOTES: CONT.

9. CONNECT ONE END OF CABLE #7014302 TO #5413013 (SEE DETAIL "A")
10. EARLY H7850 UNITS BUILT WHICH HAVE +12V REGULATOR (5413046) ARE "YK" TYPE.
11. TORQUE SPECIFICATIONS:
Q1-Q3 10 IN-LBS INSPECT TO MIN OF 6 TORQUE FROM SCREW HEAD
Q5 8 IN-LBS INSPECT TO MIN OF 5 TORQUE FROM SCREW HEAD
D9-D18 16 IN-LBS INSPECT TO MIN OF 12 TORQUE FROM NUT SIDE

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

SIGNATURES	DATE
DRN	
CHK'D	
ENG.	
PROJ. ENG.	
PROD.	

digital

TITLE REGULATOR BATTERY BACKUP H7850

SCALE 2-1 | SIZE D | CODE UA | NUMBER 5412343-YA-0 | REV E

SHT. 1 OF 2

NEXT HIGHER ASSY. B-DD-5412343-0

1 MS# 60929

8 7 6 5 2 1

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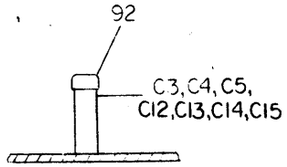
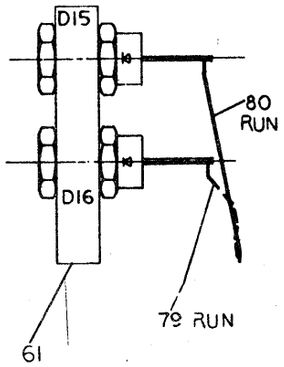
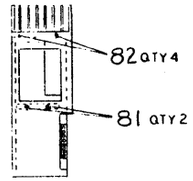
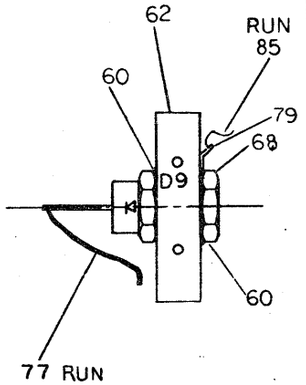
NOTES:
1. WIRING INFORMATION IS ON SHEET 1 OF 2.

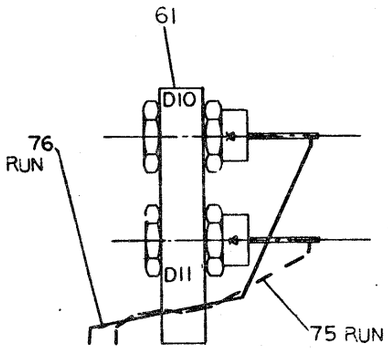
2. DIODES TO BE ASSEMBLED TO HEAT-SINKS AND WIRED AS SHOWN BEFORE INSTALLING TO BOARD.

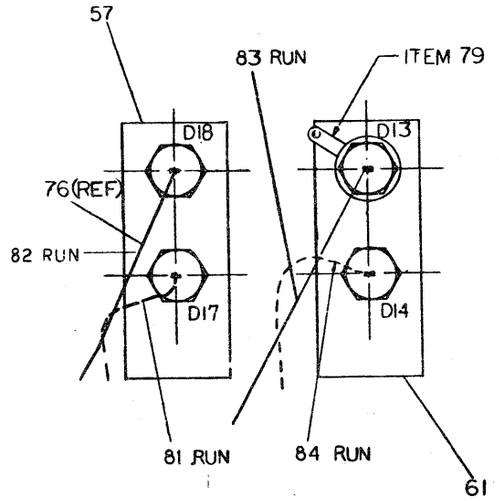












REVISIONS		
CHK	CHANGE NO.	REV.

TITLE REGULATOR BATTERY BACKUP H7850		SIZE D	CODE UA	NUMBER 5412343-YA-0
SCALE 2/1	SHEET 2 OF 2	DIST.		REV. E

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J1 J6 J5 J2 J3 P4

LVAC LVAC GND DC LO AC LO RDC GND BAT IN LVAC LVAC +5V B CHG MODE MON EN BAT MON BOOT EN STAND BY DC ON

D9 IN3880R D10 IN3880 D11 IN3880 D1 IN672 D19 IN4744 D12 IN3880R D2 470R D3 R14A D4 IN672 D5 IN672 D6 D672 D7 D672 D8 D672 D20 D672 D15 IN3880 D16 IN3880 D13 IN3880 D14 IN3880 D18 IN3880R D17 IN3880R

Q1 2N5038 Q2 2N5038 Q3 2N5038 Q4 D45H8 Q5 D44C11 Q6 2N5433 Q7 2N3725 Q8 D45H8 Q9 D44C11

L1 500 uh L2 15 uh L3 15 uh T1 T2

R1 1K R2 47 R3 200 R4 3Ω R5 1.2K R6 2.7K R7 2.7K R8 2.7M R9 .01 R10 1.5K R11 1K R12 10Ø R13 10ØK R14 10ØK R15 2.21K R16 2.21K R17 1.5 R18 1.5 R19 3ØØ R20 3ØØ R21 10K R22

C1 10µf C2 .1µf 100V C3 18Øµf C4 18Øµf 16V C5 180µf C6 1µf C7 1000pf C8 .Ø15µf C9 47ØPF C10 22µf C11 1µf C12 56Øµf C13 560µf C14 56Øµf C15 12ØØµf C16 .1µf 50V C17 10µf C18 .1µf 100V C19 1µf 50V

555 81 Vcc DCG VTH GND R

5413013 (V)OUT GND (V)IN

+15V +12 (OUT) -12 (OUT) +5B (OUT) -3V +14V GND

DRN		FIRST USED ON	H7850
CHK'D		TITLE	REGULATOR BATTERY BACKUP H7850
ENG.			
PROJ. ENG.			
PROD. #			
NEXT HIGHER ASSY.	B-DD-5412343-YA	SIZE D	CODE CS
SCALE		NUMBER	5412343-YA-1
SHEET	1 OF 1	REV.	A
		DIST.	

REVISIONS		
DWG	CHANGE NO.	REV.
C5412343-YA-1		A

B. Brunner W.F. Bausha

P A R T S L I S T

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION YA	REFERENCE DESIGNATOR
1	1	D-MD-5012342-0-0	5012342-00	ETCH BRD 54-12343	1	
2	2		1002431-00	2.2MFD 35V 10% 150S S.TA	1	C10
3	3		1012607-02	180 MFD 50V H% 672D AL EL	3	C3,C4,C5
4	4		1000042-00	1000.0 MMF 100V 5%200PPM DM15S	1	C7
5	5		1010646-00	.015 MFD 50V 2% M.POLYCARB	1	C8
6	6		1000024-00	470.0 MMF 100V 5%200PPM DM15S	1	C9
7	7		1001776-00	1 MFD 35V 10% S.TANT	2	C6,C11
8	8		1012607-00	560 MFD 20V H% 672D AL EL	3	C12,C13,C14
9	9		1012607-01	1200 MFD 6.3V H% 672D AL EL	1	C15
10	10		1010621-00	.1 MFD 50V 20% Z5U DISC	2	C16,C19
11	11		1004813-00	10 MFD 20V 10% S.TANT	2	C1,C17
12	12		1000030-00	.1 MFD 100V 20% Z5U DISC	1	C18
13	13	FOR Q7	9007201-00	TRANSIPADS #10253	0	
14	14		1100125-00	1N 758A VZ= 10.0 5% .40W PPE	2	D2,D3
15	15		1105275-00	D 672 TR= 15NS PIV= 60V SI	7	D1,D4-D8,D20
16	16		1109440-00	1N 3880 PIV=100 I= 6A DO4 SM	6	D10,D11,D13,D14,D15,D16
17	17		1113366-00	IN 3880R PIV=100 I=6A	4	D17,D18,D9,D12
18	18		1105648-00	1N 4744 VZ= 15.0 10% 1W	1	D19
19	19	BLANK			0	
20	20		1211004-02	SOCKET.100 20POS EDGE MOUNT	1	P4
21	21		1209340-00	MATE-N-LOK 8POS HSG,SKT	2	J1,J2
22	22		1209456-01	MATE-N-LOK SKT 20-18AWG LOOSE PC	16	
23	23		1211342-02	MATE-N-LOK 2PIN HEADER	2	J5,J6
24	24		1209219-01	LAMP 6V@200MA,T1-3/4PINS#2319	1	I1
25	25	BLANK			0	
26	26		1300202-00	47.0 .25 W 5.0 % CC	1	R2
27	27		1309639-00	200.0 5.0 W 5.0 % WW	1	R3
28	28		1312682-00	3.0 3.0 W 5.0 % WW	1	R4
29	29		1302950-00	1.20 K 1.0 W10.0 % CC	1	R5
30	30		1300426-00	2.70 K .25 W 5.0 % CC	2	R6,R7

REVISION HISTORY		
ENG	ECO NUMBER	REV
ER	00001	E
WFB	5412343YA-TW002	F

BASIC PART NO: 5412343

SECTION A OF A

SECTION.VARIATION INDEX
[A] YA
[B]
[C]
[D]
[E]
[F]
[H]
[J]
[K]
[L]
[M]
[N]

DRN: C DRAYTON — DATE: 21-AUG-78

CHK'D: W BAUSHA — DATE: 21-AUG-78

DES.ENG: W BAUSHA — DATE: 21-AUG-78

RESP.ENG.: W BAUSHA — DATE: 21-AUG-78

MFG.ENG.: A HAU — DATE: 21-AUG-78

ASSEMBLY NUMBER: D-UA-5412343-YA-0

TOP DOCUMENT NUMBER: H7850

DIGITAL

TITLE PARTS LIST

H7850 BATTERY BACKUP REGULATOR

DOCUMENT NUMBER

SIZE	CODE	NUMBER	REV
K	PL	5412343-YA-DBP	F

FILE NAME: Z1300.PLS

EDIT # 20

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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION YA	REFERENCE DESIGNATOR
31	31		1309680-00	2.70 M .25 W 5.0 % CC	1	R8
32	32		1313712-00	.01 5.0 W 3.0 % WW	1	R9
33	33		1300365-00	1.0 K .25 W 5.0 % CC	2	R1,R11
34	34		1300229-00	100.0 .25 W 5.0 % CC	1	R12
35	35		1302466-00	100.0 K .25 W 5.0 % CC	2	R13,R14
36	36		1312404-00	2.21 K .50 W 1.0 % RN60D-F10	2	R15,R16
37	37		1313579-00	1.50 3.0 W 5.0 % WW	2	R17,R18
38	38		1309855-00	300.0 2.0 W 5.0 % CC	2	R19,R20
39	39		1300479-00	10.0 K .25 W 5.0 % CC	1	R21
40	40		1310852-00	200.0 .50 W20.0 % POT	1	R22
41	41		1300391-00	1.50 K .25 W 5.0 % CC	1	R10
42	42		1300316-00	470.0 .25 W 5.0 % CC	1	R24
43	43	BLANK			0	
44	44	BLANK			0	
45	45		1510969-00	2N 5038 NPN 140WC SI 90 50 Y	3	Q1-Q3
46	46		1510708-00	D 45H8 PNP 50WT SI 60 60 Y	2	Q4,Q8
47	47		1512790-00	D 44C11 NPN 30W SI 80 40	2	Q5,Q9
48	48		1511686-00	DEC5433 FET N 350MW 10 25 1A	1	Q6
49	49		1510959-00	2N 3725 NPN 3.5WC SI 50 60 P	1	Q7
50	50	BLANK			0	
51	51		1612593-00	500 UH 6A	1	L1
52	52		1613874-00	CHOKE,15UH 4A	2	L2,L3
53	53		1613876-00	XFMR,POWER,RATIO 1:2 7PIN	1	T1
54	54		1613875-01	XFMR,POWER	1	T2
55	55		7013690-00	CABLE 2 PIN AC DC LOW	1	
56	56		1911944-00	555CN TIMER,FUNCT.BLOCK	1	E1
57	57		1910282-00	301AN OP AMP	1	E2
58	58		7013384-10	10 COND, CABLE EXTENDER 10 FT	1	
59	59		1213071-06	INSULATOR,RUBBER SILICONE	1	
60	60		1213071-05	INSULATOR,RUBBER THERMAL	3	
61	61	B-MD-7417414-0-0	7417414-00	HEAT SINK (DUAL)	4	
62	62	B-IA-7417413-0-0	7417413-00	HEAT SINK (SINGLE)	1	
63	63		9006655-00	WASHER, FLAT, .312 O.D. X .125 I	1	
64	64		9008172-00	WASHER, FLAT,SS .250 OD X .125 I	6	
65	65		9006706-00	WASHER, NYLON, FLAT #4 .375 OD	2	
66	66		9006745-00	EYELET, ROLLED FLANGE, .120 OD X	4	
67	67		1213071-02	INSULATOR,RUBBER SILICONE SM	3	
68	68		9006565-00	NUT,KEP , 10-32X 3/8 AF	10	
69	69		1210737-04	HEAT SINK,REGULATOR	1	
70	70		9006013-04	SCREW,BIND,SLOT, 4-40X 1/2	6	
71	71	BLANK			0	
72	72	BLANK			0	
73	73		9008033-01	SCREW,PAN,PHIL 4-40X 9/16 SS	1	
74	74		9006557-00	NUT,KEP , 4-40X 1/4 AF	7	
75	75		9000037-03	WASHER, LOCK, INTERNAL TOOTH	8	
76	76		9006010-04	SCREW,BIND,SLOT, 4-40X 5/16	8	
77	77		9107430-02	WIRE,STRND,18AWG,IPVC (UL1429)	A/R	
78	78		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	1	

D	I	G	I	T	A	L	TITLE	SECTION	SIZE	CODE	DOCUMENT NUMBER	REV
							H7850 BATTERY BACKUP REGULATOR	A OF A	K	PL	5412343-YA-DBP	F

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION YA	REFERENCE DESIGNATOR
79	79		9009909-00	TERM LUG 1POS SOLDER,FLAT .19	3	
80	80		9009149-00	PIN, STAKING, P.C. BOARD, .025 X	9	
81	81		9008404-02	SCREW,FLAT,PHIL, 6-32X 5/16 S	2	
82	82		9009142-02	SCREW, PHILLIPS FLAT HEAD, SELF	4	
83	83		9006010-01	SCREW,PAN,PHIL 4-40X 5/16 SS	2	
84	84		9008079-00	WASHER, FLAT FIBER OD. 1/4	2	
85	85		9905212-00	CARTON, DIE CUT	1	
86	86	D-IA-7417410-0-0	7417410-00	REGULATOR BRACKET	1	
87	87		9006025-01	SCREW,PAN,PHIL 6-32X 5/8 SS	2	
88	88		9007801-00	WASHER, LOCK, S.S. #6	2	
89	89		5413013-00	12 VOLT REGULATOR	1	
90	90	C-IA-7014302-0-0	7014302-00	PLUS 12 VOLT IN/OUTPUT CABLE	1	
91	91		9009769-00	WASHER, RECTANGULAR .405X.225X.0	1	
92	92		9009731-03	CAP,PLASTIC	7	

DIGITAL	TITLE	SECTION	SIZE	CODE	DOCUMENT NUMBER	REV
	H7850 BATTERY BACKUP REGULATOR	A OF A	K	PL	5412343-YA-DBP	F

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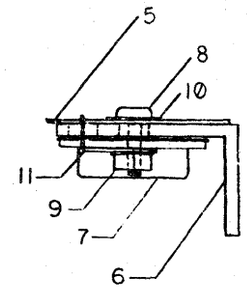
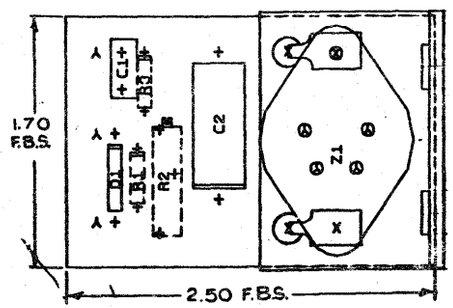
COMPONENT SIDE VIEW





NOTES: 1. R1,R2 & R3 ARE NOT USED ON BASIC 5413013 MODULE, BUT ARE RESERVED FOR PLANNED FUTURE MODULE VARIATIONS

CHK	CHANGE NO	REV

ETCH REV. B
P.C. DESIGN DATA BASE REV. BL

SIGNATURES	DATE
DRN. Judy Ouellette	5/1977
CHK'D. Judy Ouellette	5-13-77
ENG. R.J. Wirf	5/27/77
PROJ.ENG. R.J. Wirf	5/27/77
PROD. K.S. Wheeler	5/31/77
SCALE	
SHT. 1 OF 2	
NEXT HIGHER ASSY. B-DD-5413013-0	

digital

TITLE
12 VOLT REGULATOR

SIZE	CODE	NUMBER	REV
D	UA	5413013-0-0	A

1 MS# 104134

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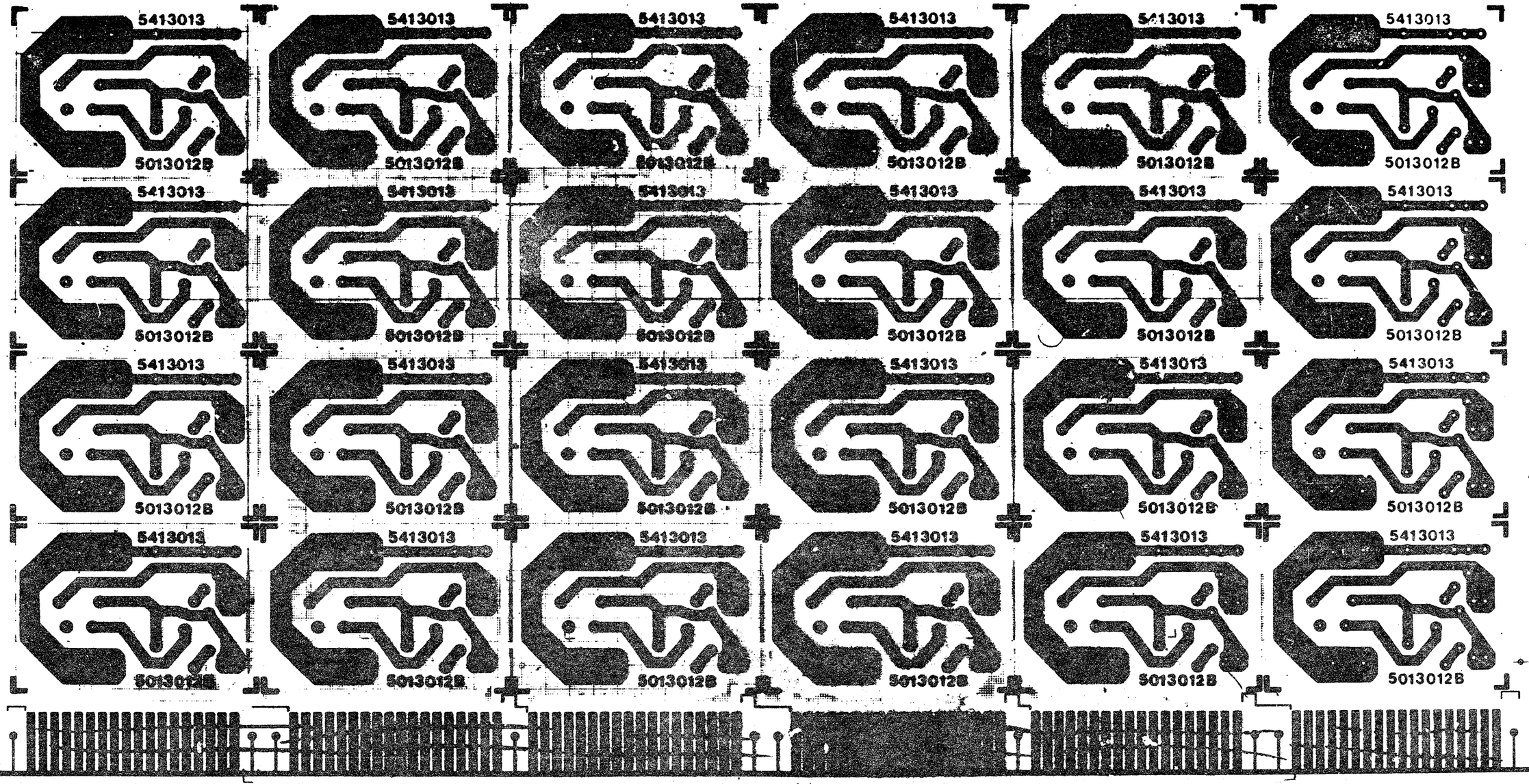

VIEWED FROM SIDE 2

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE 12VOLT REGULATOR		SIZE D	CODE UA	NUMBER 5413013-0-0	REV. A
SCALE 2:1	SHEET 2 OF 2	DIST.			

DUA 5413013-0-0 A

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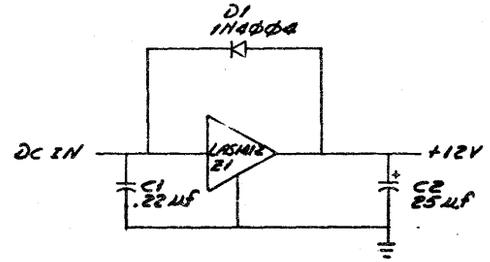

REVISIONS			
REV.	CHANGE NO.	CHK	

DRN	[illegible]	27 JUN 77
CHK'D	R. L. U	23 JUN 77
ENG.	R. L. U	23 JUN 77
PROJ. ENG.	R. L. U	23 JUN 77
PROD. K'N	[illegible]	28 JUN 77
NEXT HIGHER ASSY.		
SCALE	1 = 1	
SHEET	1 OF 1	

FIRST USED ON: H7850

digital

TITLE: 12 VOLT REGULATOR

SIZE	CODE	NUMBER	REV.
D	CS	5413013-0-1	A

DIST.

D CS 5413013-0-1 A

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY RITA BUREAU DATE 21 JUNE 77	CHECKED R.J.W. DATE 23 JUN 77	SECTION 1
ENG Robert J. Wolf DATE 28 JUN 77	PROD K.R. MacDonald DATE 28 JUN 77	ISSUED SECTION 1

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY / VARIATION 5413013-0-0	NOTES: / REF DESIGNATION
1	D-MD-5013012-0-0	5013012	ETCH BOARD	1	
2		1010274	CAP., .22 UF	1	C1
3		1000075	CAP., 25 UF, 25V	1	C2
4		1105796	DIODE, 1N4ØØ4	1	D1
5		1213071-02	WASHER, INSULATING	1	
6		1214409	HEAT SINK	1	
7		1914075	12V, 3 TERM REGULATOR	1	Z1
8		9006013-1	SCREW, 4-4Ø X .5Ø	2	
9		9006557	KEPNUT, 4-4Ø	2	
10		9006655	WASHER, #4	2	
11		9009676	LUGS, SOLDER	2	

E.C.O. NO.

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TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.
12 VOLT REGULATOR		B	PL	5413013-0-0	A
	SHEET 1 OF 1	INSERTION PARTS LIST DATA BASE REV B			

DRB 125

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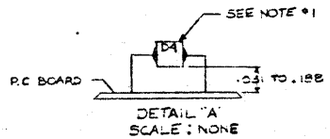
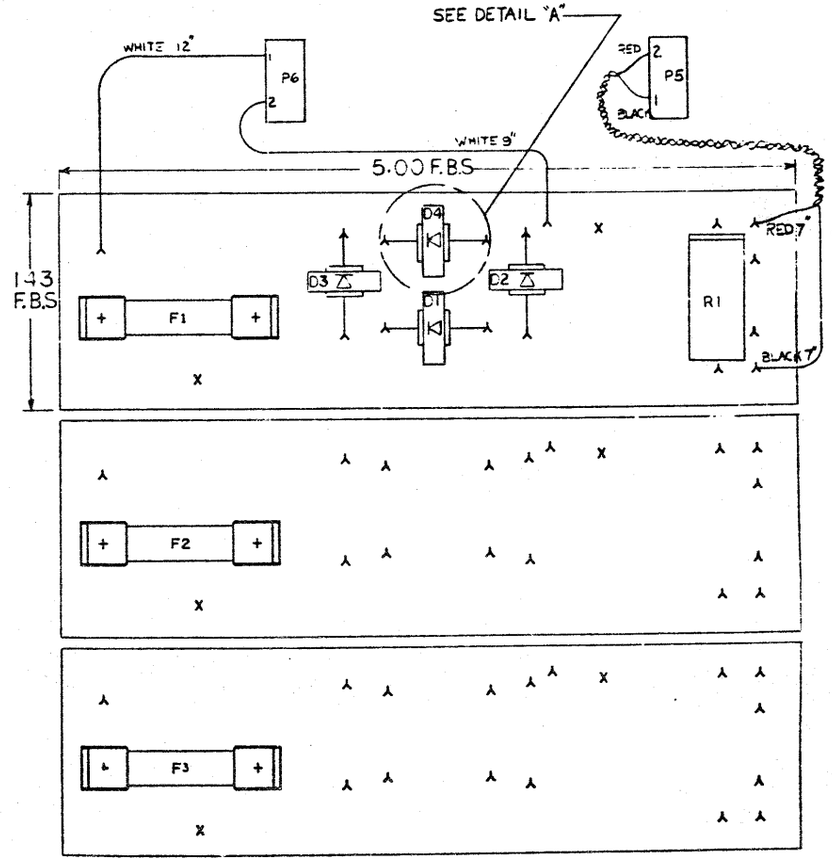
COMPONENT SIDE VIEW



DETAIL "A"
SCALE : NONE



NOTES: DIODES D1 — D4 MUST BE RAISED FROM THE P.C. BOARD .031 TO .188.

REV	CHK	CHANGE NO
F		
	M.OO4 CARTER	
	N.BAUSHA	

ETCH REV. D - P 2
P.C. DESIGN DATA BASE REV. D

SIGNATURES	DATE
DRN. P. NICHOLLS	
CHK'D.	
ENG.	
PROJ.E'	
PROD. G.	
SCALE 2/1	
SHT. 1 OF 3	
NEXT HIGHER ASSY.	

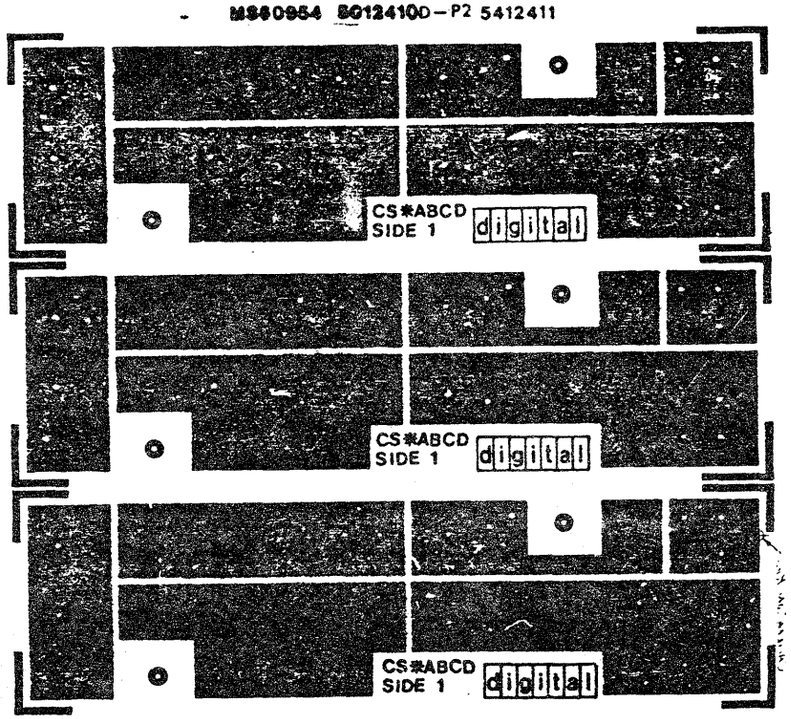
digital

TITLE INPUT RECTIFIER BOARD

SIZE	CODE	NUMBER	REV
D	UA	5-412411-C-3	F

5-412411-0-0 F
UA
B
A
MS#

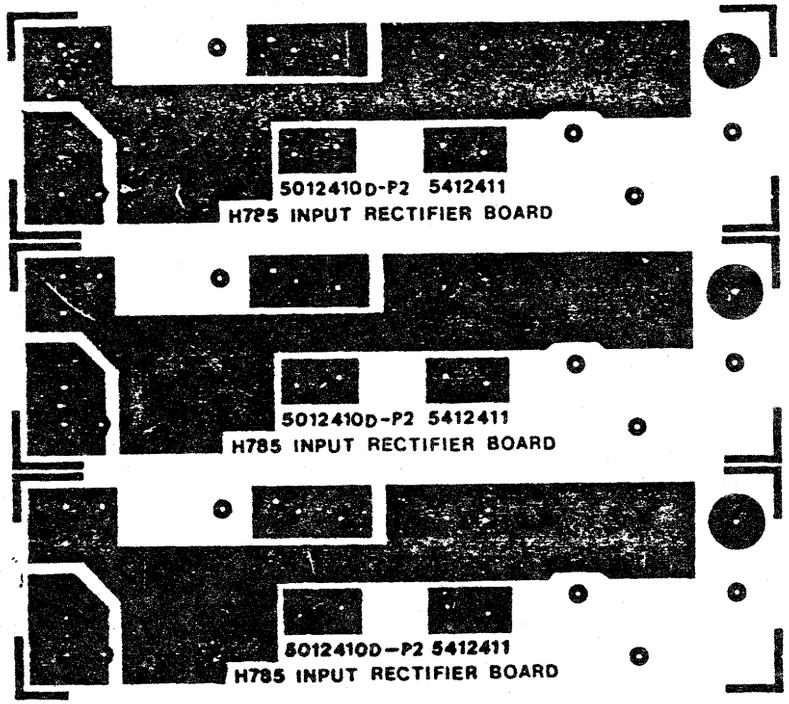
MS60954 5G12410D-P2 5412411



REVISIONS		
VERSION NO.	ECO	

TITLE	SIZE	NUMBER	REV
INPUT RECTIFIER BOARD	D	UA 5412411-0-0	F
SCALE 2/1	SHEET 2 OF 3		

DUA 5412411-0-0 F


5012410D-P2 5412411
H785 INPUT RECTIFIER BOARD
5012410D-P2 5412411
H785 INPUT RECTIFIER BOARD
5012410D-P2 5412411
H785 INPUT RECTIFIER BOARD

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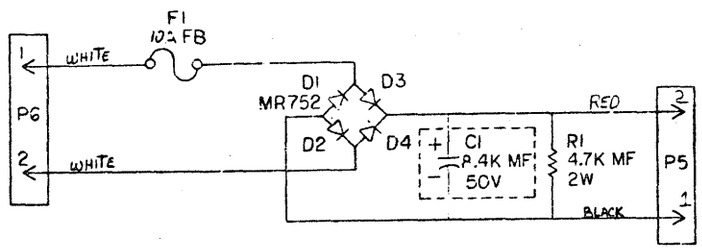
NOTES:
1. C1 WILL BE CONNECTED TO BOARD AT NEXT HIGHER ASSEMBLY.



IC TYPE	GND	+5V

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

IC PIN LOCATIONS

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.

PARTS LIST

FIRST USED ON OPTION MODEL

ETCH BOARD REV. D

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

SEMICONDUCTOR CONVERSION CHART

W.F. BAUSHA 4/30/74
5412411-ML004 D
J.MERCURI
5412411-00003 C
REVISIONS

DRW 7-15-74
CHK DATE
ENG DATE 11-5-74
I.L. ENG DATE
PROG DATE
NEXT HIGHER ASSY
SCALE —/1—
SHEET 1 OF 1

digital

TITLE
INPUT
RECTIFIER BOARD

SIZE D | CODE CS | NUMBER 5412411-Ø-1 | REV. D
DIST.

REV. D
SIZE D | CODE CS | NUMBER 5412411-Ø-1

DEC FORM NO. DRD 125.8

AUTOMATED BY PRTLST.3L(31) P A R T S L I S T SHEET A1 OF A1

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
1	1	D-MD-5412410-0-0	5012410-00	5412411	1	
2	2		1110615-00	MR 752 PIV=200 I=22A A264 SM	4	D1-D4
3	3		1210821-02	MATE-N-LOK 2POS COMM HSG,SKT	2	P5,P6
4	4		1209379-01	MATE-N-LOK SKT COMM 20-14AWG LOO	4	
5	5		1302609-00	4.70 K 2.0 W10.0 % CC	1	R1
6	6		9009000-00	EYELET,ROLL FLANGE .1210DX .156	2	
7	7		9008390-00	FUSE,REG BLO 10 A,250V CER.	1	
8	8		9007203-00	CLIP, FUSE, WITH STOP, SCREW MOU	2	
9	9		9107360-99	WIRE,STRND,18AWG,IPVC UL1429	A/R	
10	10		9107430-02	WIRE,STRND,18AWG,IPVC (UL1429)	A/R	

REVISION HISTORY			BASIC PART NO: 5412411										
ENG	ECO NUMBER	REV	SECTION A OF A	DRN: D.BILODEAU	DATE: 09-MAY-79		D	I	G	I	T	A	L
J.M	5412411-ML004	F	SECTION.VARIATION INDEX [A] 00	CHK'D: F.GAROFALO	DATE: 09-MAY-79	TITLE	PARTS LIST						
			[B]			INPUT RECTIFIER BOARD							
			[C]	DES.ENG: J.MERCURI	DATE: 09-MAY-79								
			[D]			DOCUMENT NUMBER							
			[E]										
			[F]	RESP.ENG.: J.MERCURI	DATE: 09-MAY-79	SIZE	CODE	NUMBER				REV	
			[H]										
			[J]										
			[K]	MFG.ENG.: R.B.KING	DATE: 09-MAY-79	K	PL	5412411-0-D8P				F	
			[L]										
			[M]	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:			FILE NAME:				EDIT #	
			[N]	D-UA-5412411-0-0				Z0474F.PLS				3	

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FIELD MAINTENANCE PRINT SET

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TABLE OF CONTENTS

B-TC-H775-Ø-1	FIELD MAINT. PRINT SET H775
E-UA-H775-Ø-Ø	BATTERY BACK-UP ASSY
D-IA-7011906-0-0	INTERFACE CABLE
C-IA-7011759-0-0	HARNESS P.C. BOARD CIRCUIT BREAKER
D-CS-5411625-0-1	BATTERY CHARGER CIRCUIT SCHEMATIC
D-UA-5411625-0-0	BATTERY CHARGER
A-PL-5411625-0-0	BATTERY CHARGER (PL)
MP00272	FIELD MAINT. PRINT SET H785 (COMPLETE SET)

UNIT VARIATIONS COVERED BY THIS PRINT SET
H775-BB 240V
H775-BA 120V
H775-A
H775-CA 120V
H775-CB 240V
H775-D

H775
Field Maintenance Print Set

Digital Equipment Corporation

PRINT SET ORDER NO.
MPØØØ14

REVISIONS	REV.	CHG. NO.	DATE
	A	H775-8	3-78

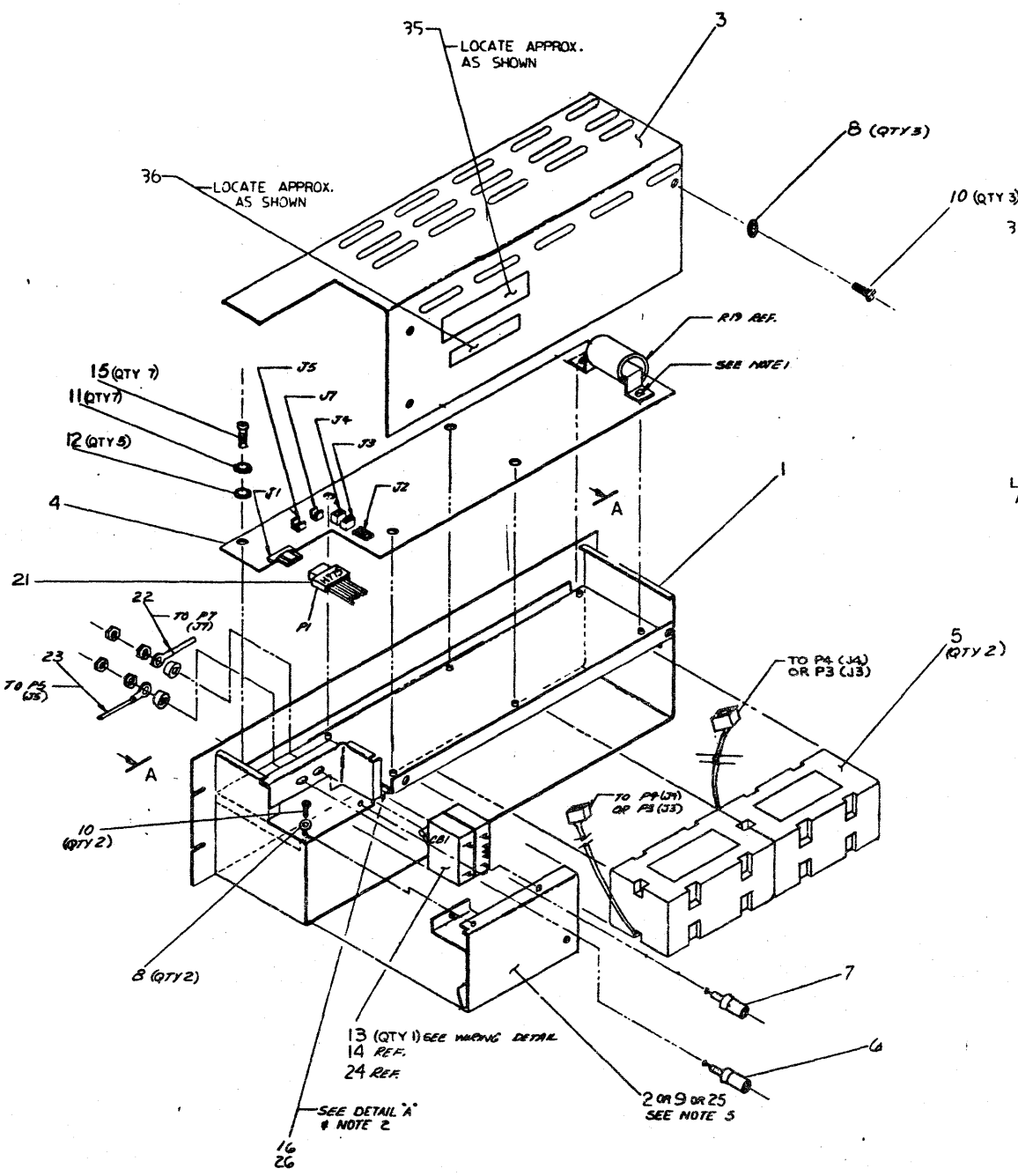
USED ON OPTION/MODEL	
11/Ø4	

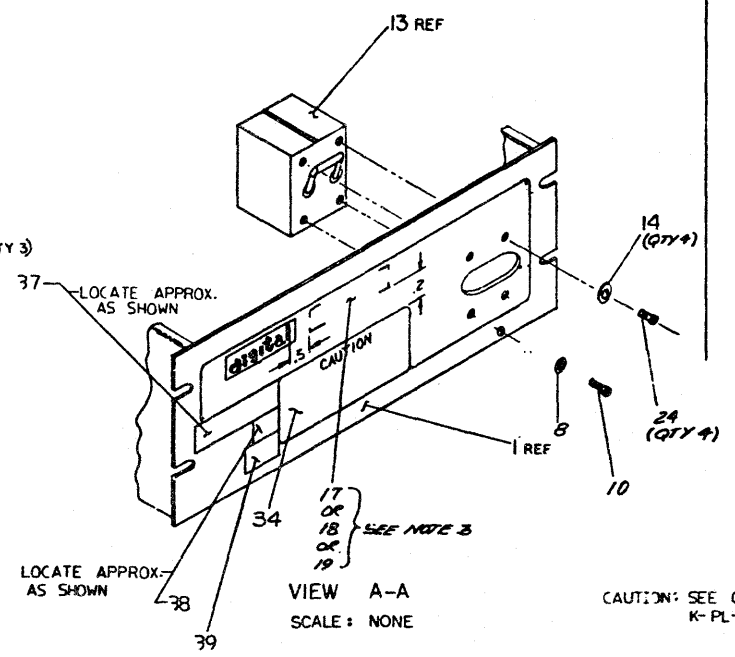
SHEET I OF 1

DRN. R. RILEY	DATE 9/22/75	digital
CHK'D D. HEALY	DATE 10/17/75	TITLE: FIELD MAINTENANCE PRINT SET H775
PROJ. ENG. J B Swan	DATE 10/22/75	SIZE B · CODE TC · NUMBER H775-Ø-1 · REV. A
FIELD SERV. C Parsons	DATE 11/4/75	DIST.

EN-01134-16-N8782-(227)

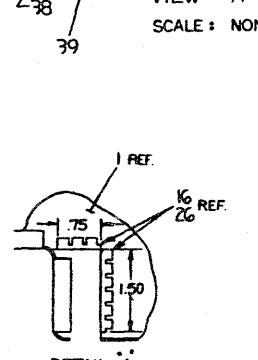
DRS 124



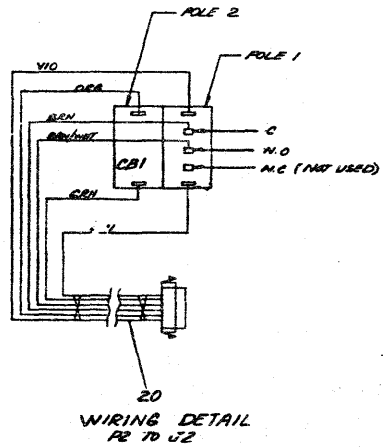


NOTES:

1. ITEM 11 & 18 ALSO USED TO MOUNT POWER RESISTOR(DO NOT USE FLAT WASHER (ITEM 12).
2. INSTALL GROMMET (ITEM 16 ON BOTH EDGES OF CABLE ACCESS OPENING
3. CENTER DECAL ON SILK SCREEN & PLACE APPOX. PER DIM. INDICATE. IN VIEW A-A
4. ASSEMBLY OF H785 TO H775-BB OR BA ARE NOT SHOWN ON THIS DOCUMENT SYSTEM DOCUMENTATION, WILL DESIGNATE PLACEMENT OF THESE PARTS.
5. WHEN INSTALLING AC BRACKETS, ITEMS 25 OR 9 INTO UNIT, 3 WIRES FROM TI (REF 7013258) MUST BE ATTACHED TO P.C. BD. (ITEM 4). WIRES 5 & 7 (FITTED WITH MATE 'N LOCK PINS) MUST BE INSERTED INTO POSITIONS 7 & 8 ON J-1 (EITHER POSITION.) WIRE #6 (FITTED WITH FAST-ON) MUST PLUG ONTO FREE SIDE OF J-7.



DETAIL 'A'



WIRING DETAIL PR TO J2

CAUTION: SEE OFF SHEET PARTS LIST K-PL-H775-0-DBP, (25523H).

1	–	–	1	1	1	LABEL, BATT. DISCHARGE	3615596	34
AR	–	–	AR	AR	AR	~~TUBING, SHRINK~~	~~9107253-00~~	~~33~~
1	–	–	1	1	1	~~FUSE, ADAPTOR~~	~~7016582-0-0~~	~~32~~
1	–	–	–	–	–	~~BREAKER, CIRCUIT~~	~~12112261-1~~	~~31~~
1	–	–	–	–	–	DECAL H775-D	A-DC-7M4744-01	30
–	1	1	–	–	–	REGULATOR	H785	29
–	1	–	–	–	–	BATT. BACKUP 240V	H775-BB	28
–	–	1	–	–	–	BATT. BACKUP 120V	H775-BA	27
AR	–	–	AR	AR	AR	HYBOND 80	9007534-00	26
–	–	–	–	–	1	BRACKET, A.C. 220 V.	E-UA-7013258-01	25
4	–	–	4	4	4	SCR PH HD ASSY #8-32 X .25	9006020-1	24
1	–	–	1	1	1	JUMPER, BTRY BACKUP (BLU)	B-IA-7012074-01	23
1	–	–	1	1	1	JUMPER, BTRY BACKUP (BLK)	B-IA-7012074-00	22
–	–	–	1	1	1	INTERFACE CABLE	D-IA-7011806-0-0	21
1	–	–	1	1	1	HARNESS PC BD/CKT. BRK	C-IA-7011759-0-0	20
–	–	–	–	–	1	– DECAL H775-BA	A-DC-7M4748-0-0	19
–	–	–	–	–	1	– DECAL H775-BB	A-DC-7M4742-0-0	18
–	–	–	1	–	–	DECAL H775A	A-DC-7M4746-0-0	17
AR	–	–	AR	AR	AR	GROMMET, CATERPILLAR	9007035	16
7	–	–	7	7	7	SCR PH HD ASSY #8-32 X .38	9006622-1	15
4	–	–	4	4	4	WASHER LK #6 INT TOOTH	9006633	14
1	–	–	1	1	1	CIRCUIT BREAKER	12-16434-01	13
5	–	–	5	5	5	WASHER FLAT #6	9006663	12
7	–	–	7	7	7	WASHER LK #6 EXT. TOOTH	9007649	11
6	–	–	6	6	6	SCREW PH HD ASSY #8-32 X .38	9006037-01	10
–	–	1	–	–	1	BRACKET, A.C. ASSY. 115V.	E-UA-7013258-0-0	9
6	–	–	6	6	6	WASHER, INT TOOTH LT #8	9006634	8
1	–	–	1	1	1	POST BINDING (BLK)	1209352-05	7
1	–	–	1	1	1	POST BINDING (RED)	1209352-01	6
2	–	–	2	2	2	BATTERY PACK	1212499	5
1	–	–	1	1	1	BATTERY CHARGER	D-UA-5411625-0-0	4
1	–	–	1	1	1	BATTERY BOX & COVER	D-IA-7011653-0-0	3
1	–	–	1	–	–	BRACKET DC	E-IA-7414234-00	2
1	–	–	1	1	1	CHASSIS ASS'Y	D-IA-7011655-0-0	1
H775-0	H775-CB	H775-BA	H775-BB	H775A		DESCRIPTION	DWG. PART NO.	ITEM NO.

1	–	–	1	1	1	LABEL, BATT. DISCHARGE	3615596	34
AR	–	–	AR	AR	AR	~~TUBING, SHRINK~~	~~9107253-00~~	~~33~~
1	–	–	1	1	1	~~FUSE, ADAPTOR~~	~~7016582-0-0~~	~~32~~
1	–	–	–	–	–	~~BREAKER, CIRCUIT~~	~~12112261-1~~	~~31~~
1	–	–	–	–	–	DECAL H775-D	A-DC-7M4744-01	30
–	1	1	–	–	–	REGULATOR	H785	29
–	1	–	–	–	–	BATT. BACKUP 240V	H775-BB	28
–	–	1	–	–	–	BATT. BACKUP 120V	H775-BA	27
AR	–	–	AR	AR	AR	HYBOND 80	9007534-00	26
–	–	–	–	–	1	BRACKET, A.C. 220 V.	E-UA-7013258-01	25
4	–	–	4	4	4	SCR PH HD ASSY #8-32 X .25	9006020-1	24
1	–	–	1	1	1	JUMPER, BTRY BACKUP (BLU)	B-IA-7012074-01	23
1	–	–	1	1	1	JUMPER, BTRY BACKUP (BLK)	B-IA-7012074-00	22
–	–	–	1	1	1	INTERFACE CABLE	D-IA-7011806-0-0	21
1	–	–	1	1	1	HARNESS PC BD/CKT. BRK	C-IA-7011759-0-0	20
–	–	–	–	–	1	– DECAL H775-BA	A-DC-7M4748-0-0	19
–	–	–	–	–	1	– DECAL H775-BB	A-DC-7M4742-0-0	18
–	–	–	1	–	–	DECAL H775A	A-DC-7M4746-0-0	17
AR	–	–	AR	AR	AR	GROMMET, CATERPILLAR	9007035	16
7	–	–	7	7	7	SCR PH HD ASSY #8-32 X .38	9006622-1	15
4	–	–	4	4	4	WASHER LK #6 INT TOOTH	9006633	14
1	–	–	1	1	1	CIRCUIT BREAKER	12-16434-01	13
5	–	–	5	5	5	WASHER FLAT #6	9006663	12
7	–	–	7	7	7	WASHER LK #6 EXT. TOOTH	9007649	11
6	–	–	6	6	6	SCREW PH HD ASSY #8-32 X .38	9006037-01	10
–	–	1	–	–	1	BRACKET, A.C. ASSY. 115V.	E-UA-7013258-0-0	9
6	–	–	6	6	6	WASHER, INT TOOTH LT #8	9006634	8
1	–	–	1	1	1	POST BINDING (BLK)	1209352-05	7
1	–	–	1	1	1	POST BINDING (RED)	1209352-01	6
2	–	–	2	2	2	BATTERY PACK	1212499	5
1	–	–	1	1	1	BATTERY CHARGER	D-UA-5411625-0-0	4
1	–	–	1	1	1	BATTERY BOX & COVER	D-IA-7011653-0-0	3
1	–	–	1	–	–	BRACKET DC	E-IA-7414234-00	2
1	–	–	1	1	1	CHASSIS ASS'Y	D-IA-7011655-0-0	1
H775-0	H775-CB	H775-BA	H775-BB	H775A		DESCRIPTION	DWG. PART NO.	ITEM NO.

REV	CHANGE NO.	DESCRIPTION	BY	DATE
A	H775-00003	Changed per ECO	A. DAVIS	11 MAR 77
B	H775-00005	Changed per ECO	A. MARTIN	23 MAY 77
C	H775-00006	Changed per ECO	A. DAVIS	23 MAY 77
D	H775-ML008	Changed per ECO	A. BARON	7 JUN 79
E	H775-ML010	Changed per ECO	A. BARON	7 JUN 79
F	H775-ML011	Changed per ECO	RO JUN 79 BAUSHA	20 JUN 79
G	H775	Changed per ECO	K. NICHOLES	10 JUL 79
H	H775	Changed per ECO	K. NICHOLES	10 JUL 79

DIMENSIONAL TOLERANCE
DIMENSIONS ARE INCHES
UNLESS OTHERWISE SPEC.
.XXX ± .005
.XX ± .02
.X ± 1

THIRD ANGLE PROJECTION
DO NOT SCALE DRWG
MATERIAL: SEE PARTS LIST
FINISH:

NEXT USED ON: 11/04

TITLE: BATTERY BACK-UP ASS'Y

SIZE: B | CODE: UA | NUMBER: H775-0-0 | REV: H

SCALE: 1/2 | SHEET: 1 OF 1

H775-0-0

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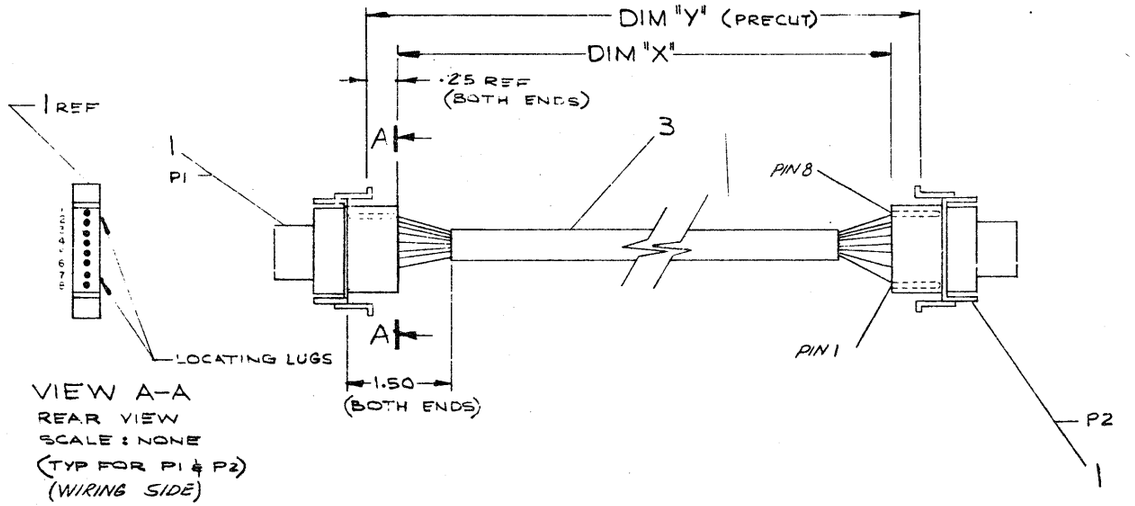
WIRE TABLE

ITEM NO	DESCRIPTION AWG	COLOR	FROM CONNECTION	WITH	TO CONNECTION	WITH	REMARKS
4	14	ORN	P1-1	2	P2-1	2	—
5	↓	BLK	P1-2	↓	P2-2	↓	—
6		BLUE	P1-3		P2-3		—
7		GRAY	P1-4		P2-4		—
8		RED	P1-5		P2-5		—
9		WHITE	P1-6		P2-6		—
10		YEL	P1-7		P2-7		—
11	14	BRN	P1-8	2	P2-8	2	—

LEGEND

NUMBER	DIM "X" VARIATION	DIM "Y" (PRECUT) REF
7011906-05	4 FT ± 11.50 IN ± 1.0 IN.	5 FT ± 0 IN ± 1.0 IN

NOTES:



VIEW A-A
REAR VIEW
SCALE : NONE
(TYP FOR P1 & P2)
(WIRING SIDE)

A/R	WIRE #14 STRD BRN	9107370-11	11
A/R	WIRE #14 STRD YEL	9107370-44	10
A/R	WIRE #14 STRD WHT	9107370-99	9
A/R	WIRE #14 STRD RED	9107370-22	8
A/R	WIRE #14 STRD GRY	9107370-88	7
A/R	WIRE #14 STRD BLU	9107370-66	6
A/R	WIRE #14 STRD BLK	9107370-00	5
A/R	WIRE #14 STRD ORG	9107370-33	4
A/R	TUBING EXTR. BLK .500 ID	9107296	3
16	PIN, MALE	1209378-00	2
2	CONN., 8 PIN	1209340-01	1

REVISIONS	CHK	CHANGE NO.	REV.
J.B. DAVIS	TD	7011906-00001	A
G. POTTER	JS	7011906-00002	B
G. POTTER	JS	7011906-00003	C

DEC FORM NO. DRD 360-C

QUANTITY & VARIATION	
THIRD ANGLE PROJECTION	
REMOVE BURRS AND BREAK SHARP CORNERS	
DO NOT SCALE DWG	
MATERIAL	SEE PARTS LIST
FINISH	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

ANGLES ±0° 30'	CLASS OF ACCURACY	NOMINAL DIMENSION RANGE INCHES OVER 0 TO 0.5	OVER 0.5 TO 1.5	OVER 1.5 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
SURFACE QUALITY IN MICROINCHES	CHECK ONE						
	MEDIUM	±.004	±.008	±.012	±.016	±.024	±.04
	PREFERRED	±.012	±.016	±.025	±.04		±0.1

DRD George Brayton 8/11/75
CHK'D [illegible] 8/20/75
ENG. [illegible] 8/20/75
PROJ. ENG. [illegible] 8/20/75
PROD [illegible] 11/24/75
NEXT HIGHER ASSY.
C-UA-H775-0-0
SCALE
SHEET 1 OF 1
FIRST USED ON H775

digital

TITLE
INTERFACE CABLE (11/04)

SIZE	CODE	NUMBER	REV.
D	IA	7011906-00	C

DIST.

REV. C
SIZE CODE D IA NUMBER 7011906-00

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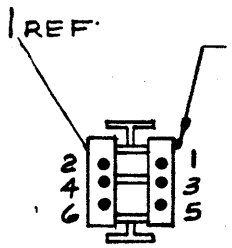
WIRE TABLE

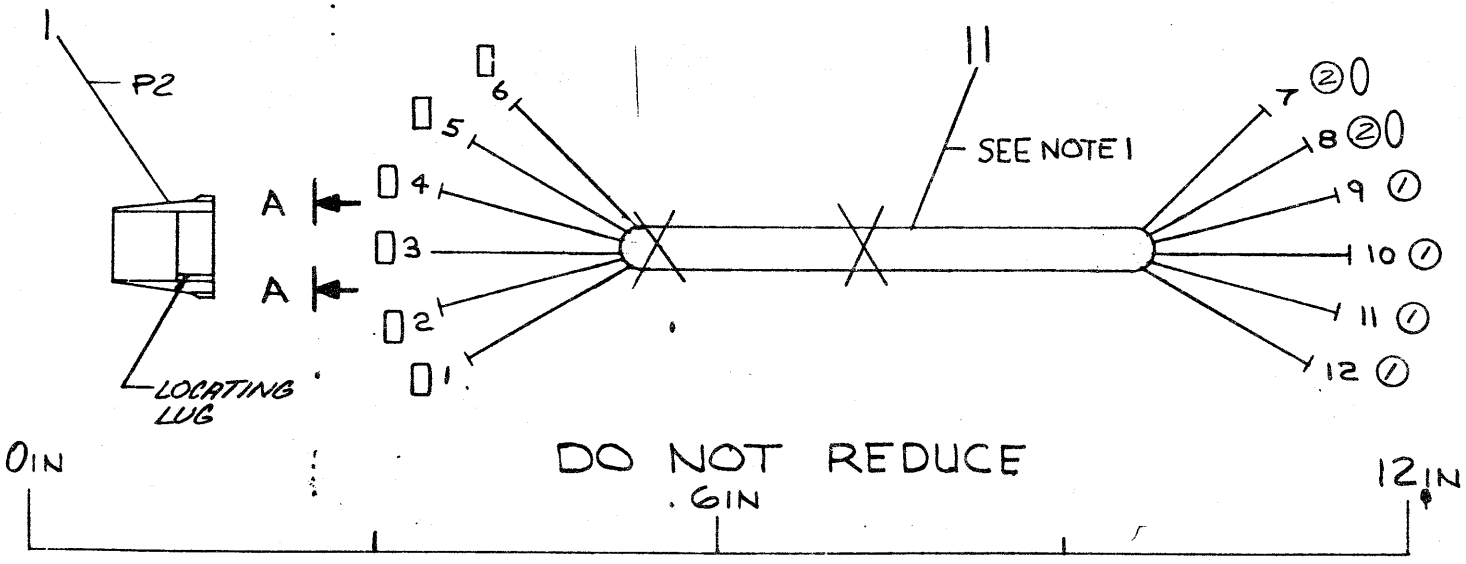
ITEM	DESCRIPTION		FROM			TO		
NO.	AWG	COLOR	POINT.	CONN.	WITH	POINT	CONN.	WITH
5	14	ORN	1	P2-1	2	12	—	3
6	14	GRN	2	P2-2	↕	11	↕	3
7	14	BLU	3	P2-3		10		3
8	14	VIO	4	P2-4		9		3
9	18	BRN	5	P2-5	↕	8	↕	4,12
10	18	GRY/BRN	6	P2-6	2	7	—	4,12

NOTES:

1. USE CABLE TIES (ITEM *11) APPROX. 2.0 AND 4.0 IN. FROM P2 (ITEM *1).



:VIEW A-A
REAR VIEW
SCALE : NONE
(WIRING SIDE)



FOR MANUFACTURING PURPOSES ONLY

CAUTION: SEE OFF SHEET PARTS LIST K-PL-7011759-0-DBP (Z3596B.PLS).

SYM	QTY.	DESCRIPTION	PART NO.	ITEM NO.
~~0~~	~~A/R~~	~~TUBING,SHRINK 3/16 ID~~	~~9107254-00~~	~~12~~
X	2	TIE, CABLE	9007031	11
—	A/R	WIRE *18 AWG (GRY/BRN)	9107410-81	10
—	A/R	WIRE *18 AWG (BRN)	9107360-11	9
—	A/R	WIRE *14 AWG (VIO)	9107370-77	8
—	A/R	WIRE *14 AWG (BLUE)	9107370-66	7
—	A/R	WIRE *14 AWG (BRN)	9107370-55	6
—	A/R	WIRE *14 AWG (ORN)	9107370-33	5
②	2	TERMINAL, QUICK DIS CONN	1217000-07	4
①	4	TERMINAL, QUICK CONNECT	9007969	3
▯	6	PIN (FEMALE)	1209379-00	2
	1	CONN, 6 PIN (FEMALE)	1210821-06	1

PARTS LIST

REVISIONS				
CHK	CHANGE NO.	REV.		
FB	7011759-00001	A	J. Chester 1-7-76	
	7011759 TW002	B	J.B. DAVIS JR. 16-DEC-81	
			A. RUSZCZYK	
			W. BAUSHA	

FIRST USED ON OPTION/MODEL	H775
DIMENSIONAL TOLERANCE	DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED
MILLIMETERS	X.XX = ±0.10, X.X = ±0.5, X = ±2, ANGLES ±0° 30'
INCHES	XXX = ±.005, XX = ±.02, X = ±.1
THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓
MATERIAL	SEE PARTS LIST
FINISH	—
DRN	[illegible] DATE 7-12-75
CHK'D	[illegible] DATE 10/22/75
ENG.	[illegible] DATE 10/22/75
PROJ. ENG.	[illegible] DATE 10/22/75
PROD.	[illegible] DATE 10/22/75
NEXT HIGHER ASSY.	E-UA-H775-00
SCALE	1/1
SHEET	1 OF 1

digital

TITLE: HARNESS, PC BOARD/ CKT. BREAKER

SIZE	CODE	NUMBER	REV.
C	IA	7011759-0-0	B

DIST.

DEC FORM NO. 9C 100-8

TW

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P/O J1

D17 649P2

R39 1K

313 A55

R37 15

R38 1K

R40 1ØØ

D19 D672

Q14 AØ5

D16 D672

R36 3.3K

R35 3.3K

D13 D662

D14 D662

D15 IN5248B

D22 IN12ØIA

D21 IN12ØIA

J5

J6

P/O J2

J1

J2

K1 NO

L1 25Ø UH

D2 A115B

R10 32Ø

R11 1.5K

CTL VTH DCG 555 E1

R12 1.8K

Q5 A55

R14 18K

3Ø1 E3

R13 1ØK

R15 12ØK

C9 33PF

C8 .Ø1UF

R19 25

R22 39Ø

Q7 2N3762

R21 1ØØ

R23 5ØØ

R18 11.5K

R17 1K

R16 1K

D26 IN4ØØ4

D12 IN4ØØ4

D13 D672

D23 D672

J3

J4

D11 IN4ØØ4

K1 NO.

R29 1.3K

R30 8.2K

R31 11.8K

Q12 2N3725

R42 1K

D25 IN5248B

Q15 AØ5

R43 3.3K

R44 17K

D1 A119B

R1 1ØØ

Q1 D44C9

Q2 2N3725

Q3 AØ5

R8 1K

R4 15

R5 3ØØ

R7 18K

C1 18ØUF

D20 IN4ØØ4

C2 .Ø-.Ø33UF

F1 3/4 A

R3 1ØØ

R2 Ø.2

Q4 BØ5

CTL VTH DCG 555 E2

R9 1ØK

R10 22K

C3 1K PF

C4 .Ø1 UF

C5 .Ø1UF

C6 .Ø1 UF

C7 1ØUF

D3 IN4744

D4 5.1V 1%

C10 18ØUF

Q16 A55

R45 1ØK

R25 1K

R46 3.3K

R26 39K

Q6 AØ5

D24 D672

R24 1.62K

R27 1ØK

Q8 AØ5

R28 1ØK

D5 D662

D6 D662

D7 D662

D8 D662

Q11 2N6428

D9 5.1V 2%

R32 2.74K

C11 .Ø1UF

R33 22K

Q9 AØ5

Q10 AØ5

R41 1ØK

R34 3.3K

D10 IN5248B

J7

REVISIONS				
CHK	CHANGE NO	REV.		
	5411625-00001	C	G.POTTER	1-NOV-77
	5411625-00002	D	J.DAVIS	20-DEC-77
	5411625-ML003	E	A.BARON	25-APR-78
	5411625-TW004	F	A.BARON	6-NOV-78

DEC FORM NO. DRD 302-0

ETCH BOARD REV	C	
DRN.		24/8/77
CHK'D		8/22/77
ENG.		9/18/77
PROJ. ENG.		
PROD.		9/18/77
NEXT HIGHER ASSY.		
D-UA-5411625-0-1		
SCALE		
SHEET 1 OF 1		

FIRST USED ON H775

digital

TITLE BATTERY CHARGER

SIZE	CODE	NUMBER	REV.
D	DCS	5411625-0-1	F
DIST.			

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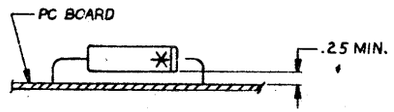
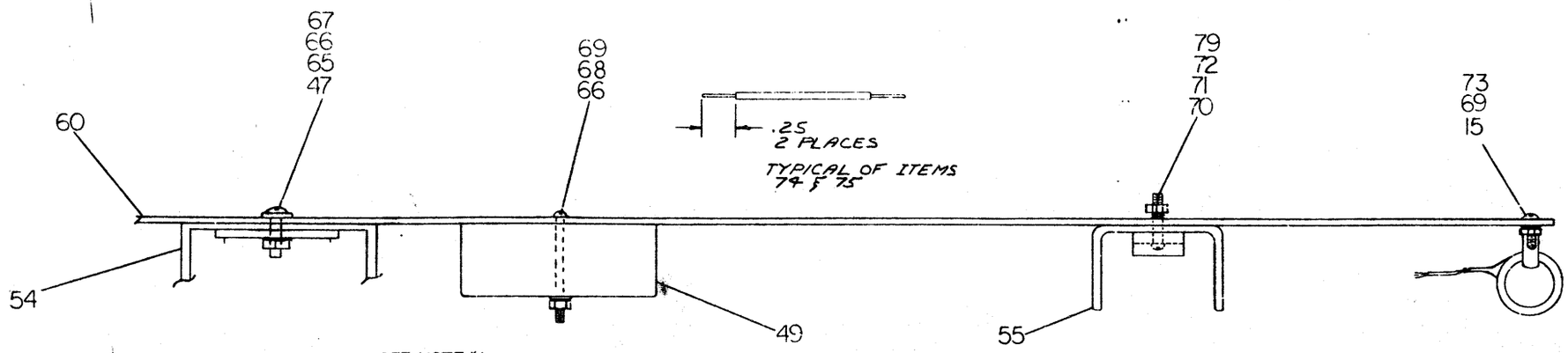
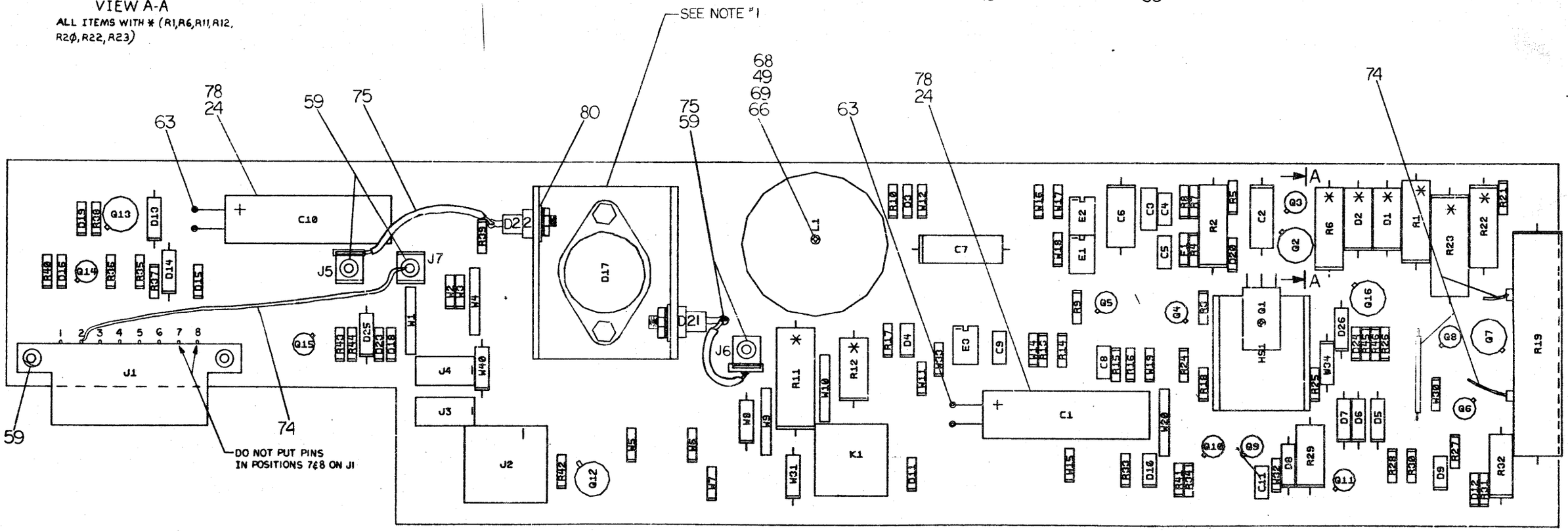


VIEW A-A

ALL ITEMS WITH * (R1,R6,R11,R12, R20, R22, R23)





NOTES: 1. NO THERMAL COMPOUND.

CHK	CHANGE NO	REV
	5411625-0000	C
	G. POTTER	
	5411625-0000	D
	J. DAVIS	
	5411625-1400	E
	A. BARON	
	5411625-1900	F
	A. BARON	

SIGNATURES	DATE
DRN M. Poirier	SEPT 75
CHK'D.	9/24/75
ENG.	9/18/75
PROJ. ENG.	9/24/75
PROD.	9/25/75

digital

TITLE: BATTERY CHARGER

SCALE 2:

SHT. 1 OF 2

SIZE	CODE	NUMBER	REV
D	UA	5411625-0-0	F

ETCH REV C FIRST USED ON

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WIRE ADDS SIDE 2

4-1 BETWEEN J3-2 AND J4-1 WRAP WIRE (ITEM 74) AROUND LEADS THAT EXTEND THROUGH THE BOARD BEFORE SOLDERING

4-2 BETWEEN J3-1 AND K1-6 WRAP WIRE (ITEM 74) AROUND LEADS THAT EXTEND THROUGH THE BOARD BEFORE SOLDERING

4-3 BETWEEN J4-2 AND J7 WRAP WIRE (ITEM 74) AROUND J4-2 LEAD EXTENDING THROUGH THE BOARD BEFORE SOLDERING. LAY THE WIRE ON THE PAD OF J7 AND SOLDER.

REVISION HISTORY		
DATE	ECO NUMBER	REV

TITLE: BATTERY CHARGER

DOCUMENT NUMBER			
SIZE	CODE	NUMBER	REV
D	UA	5411625-0-0	F

SCALE NONE SHEET 2 OF 2

DWG 37A

AUTOMATED BY PRTLST.3M(41) P A R T S L I S T SHEET A1 OF A3

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
1	1		1302380-00	100.0 2.0 W 5.0 % CC	1	R1
2	2		1311604-00	.20 3.0 W 3.0 % WW	1	R2
3	3		1300229-00	100.0 .25 W 5.0 % CC	3	R3,R21,R40
4	4		1301421-00	15.0 .25 W 5.0 % CC	2	R4,R37
5	5		1301425-00	300.0 .25 W 5.0 % CC	1	R5
6	6		1301966-00	820.0 2.0 W10.0 % CC	1	R6
7	7		1302465-00	18.0 K .25 W 5.0 % CC	2	R7,R14
8	8		1300365-00	1.0 K .25 W 5.0 % CC	7	R8,R16,R17,R25,R38,R39,R42
9	9		1300479-00	10.0 K .25 W 5.0 % CC	7	R9,R13,R27,R28,R41,R44,R45
10	10		1301808-00	22.0 K .25 W 5.0 % CC	2	R10,R33
11	11		1301897-00	1.50 K 5.0 W 5.0 % WW	1	R11
12	12		1303122-00	1.80 K 1.0 W 5.0 % CC	2	R12,R29
13	13		1302466-00	100.0 K .25 W 5.0 % CC	1	R15
14	14		1304862-00	1.62 K .25 W 1.0 % RN55D-F10	1	R24
15	15		1300190-00	25.0 25.0 W 1.0 % WW	1	R19
16	16		1313593-00	11.80 K .25 W 1.0 % RN55D-F10	1	R31
17	17		1301864-00	390.0 2.0 W 5.0 % CC	1	R22
18	18		1303169-00	500.0 5.0 W 5.0 % WW	1	R23
19	19		1303179-00	8.20 K .25 W 5.0 % CC	2	R26,R30
20	20		1309415-00	11.50 K .25 W 1.0 % RN55D-F10	1	R18
21	21		1304868-00	2.74 K .25 W 1.0 % RN55D-F10	1	R32
22	22		1300439-00	3.30 K .25 W 5.0 % CC	5	R34,R35,R36,R43,R46
23	23		1005784-00	.01 MFD 100V 200V 10% MYL	1	C6
24	24		1012607-02	180 MFD 50V+100-10% AL EL	2	C1,C10
25	25		1000050-00	.033 MFD 100V 80V 10% MYL	1	C2
26	26		1000042-00	1000.0 MMF 100V 5%200PPM MICA	1	C3
27	27		1001610-01	.01 MFD50/100V +80-20% DISC	2	C4,C5
28	28		1004813-00	10 MFD 20V 10% S.TANT	1	C7
29	29		1000030-00	.1 MFD 100V 20% Z5U DISC	2	C8,C11
30	30		1000009-00	33.0 MMF 100V 5%200PPM MICA	1	C9

REVISION HISTORY		
ENG	ECO NUMBER	REV
	INITIAL	F
BB	5411625-TW04A	F
BB	5411625-TW004	F
BB	5411625-TW004	F
WB	5411625-TW006	H

BASIC PART NO: 5411625

SECTION A OF A

SECTION.VARIATION INDEX
[A] 00
[B]
[C]
[D]
[E]
[F]
[H]
[J]
[K]
[L]
[M]
[N]

DRN: J. DAVIS	DATE: 03-APR-80	D I G I T A L
CHK'D: P. BOSSMAN	DATE: 03-APR-80	TITLE: PARTS LIST BATTERY CHARGER
DES.ENG: J. DAVIS	DATE: 03-APR-80	
RESP.ENG.: J. DAVIS	DATE: 03-APR-80	DOCUMENT NUMBER
MFG.ENG.: D. DEROME	DATE: 03-APR-80	SIZE: K; CODE: PL; NUMBER: 5411625-0-DBP; REV: H
ASSEMBLY NUMBER: D-UA-5411625-0-0	TOP DOCUMENT NUMBER: B-DD-5411625-0-0	FILE NAME: Z1302H.PLS; EDIT #: 21

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AUTOMATED BY PRTLST.3M(41)

P A R T S L I S T

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
31	31		1510421-00	D 44C8 NPN 30WT SI 60 20	1	Q1
32	32		1510959-00	2N 3725 NPN 3.5WC SI 50 60 P	2	Q2,Q12
33	33		1510705-00	XA 05 NPN 500MW SI 60 50 P	7	Q3,Q6,Q8,Q9,Q10,Q14,Q15
34	34		1510706-00	XA 55 PNP 500MW SI 60 50 P	3	Q5,Q13,Q16
35	35		1509649-01	3762 PNP 4W SI 40 35	1	Q7
36	36		1510877-00	2N 6028 UJT 300MW R67B	1	Q11
37	37		1112595-01	A114B PIV=200 I= 1A	1	D1
38	38		1112594-01	A115B PIV=200 I= 3A	1	D2
39	39		1105548-00	1N 4744 VZ= 15.0 10% 1W	1	D3
40	40		1105873-00	4M5-1AZ1 VZ= 5.1 1% .400W	1	D4
41	41		1100113-00	D 662 OS 600PCB(STABISTOR)	6	D5,D6,D7,D8,D13,D14
42	42		1110713-00	SZ710910 VZ= 5.1 2% M	1	D9
43	43		1105796-00	1N 4004 PIV=400 I= 1A D041 SP	4	D11,D12,D20,D26
44	44		1110766-00	1N 5248B VZ= 18.0 5% .50W	3	D15,D25,D10
45	45		1105275-00	D 672 TR= 15NS PIV= 60V SI	5	D16,D19,D18,D23,D24
46	46		1110006-00	1N 1201A PIV=150 I=12A D04 SY	2	D21,D22
47	47		1109465-00	MCR 649P2SCR@ 50V I=20A T041	1	D17
48	48		1210929-03	FUSE, SUB-MINI .750A, 125V, A	1	F1
49	49		1612500-00	200 UH 10% 1.4A	1	L1
50	50		1211138-01	RLY,G.P., 6V COIL,DPDT, 5A	1	K1
51	51		1211139-00	SKT,RELAY 10PIN	1	XK1
52	52		1211342-06	MATE-N-LOK 6PIN COMM HEADER	1	J2
53	53		1211342-02	MATE-N-LOK 2PIN COMM HEADER	2	J3,J4
54	54		1212645-00	HEAT SINK,BATT BACKUP,1.5X1.5X1.	1	HS2
55	55		1212487-00	HEAT SINK,1"X1.18X.5",XSISTOR&SC	1	HS1
56	56		1911944-00	555CN TIMER,FUNCT.BLOCK	2	E1,E2
57	57		1910282-00	301AN OP AMP	1	E3
58	58		9008219-00	TERM,TAB .250TAB .130STUD MN	1	J6
59	59		9009000-00	EYELET,ROLL FLANGE .1210DX .156	5	
60	60		5011624-00	54-11625	1	
61	61		1209340-00	MATE-N-LOK 8POS COMM HSG,SKT	1	J1
62	62		1209456-01	MATE-N-LOK SKT COMM PC MTG LOOSE	6	
63	63		9009118-03	TERM PCB 1POS SOLDER	4	
64	64		9007113-00	TERM QUICK .130DIA .250TAB BR/T	2	J5,J7
65	65		9006024-01	SCREW,PAN,PHIL 6-32X 1/2 SS	2	
66	66		9006653-00	WASHER, FLAT, .375 O.D. X .156 I	3	
67	67		9008185-00	NUT,KEP 6-32X 1/4 AF	2	
68	68		9007853-01	SCREW,PAN,PHIL 6-32X1-1/8 SS	1	
69	69		9006560-00	NUT,KEP 6-32X 5/16AF	3	
70	70		9006010-01	SCREW,PAN,PHIL 4-40X 5/16 SS	1	
71	71		9006655-00	WASHER, FLAT, .312 O.D. X .125 I	1	
72	72		9006557-00	NUT,KEP 4-40X 1/4 AF	1	
73	73		9006020-01	SCREW,PAN,PHIL 6-32X 1/4 SS	2	
74	74		9107350-99	WIRE,STRND,22AWG,IPVC UL1429	A/R	
75	75		9107360-22	WIRE,STRND,18AWG,IPVC UL1429	A/R	
76	76		1510705-01	B 05 NPN 500MW SI 60 50	1	Q4
77	77		9007970-00	TERM,QUICK .300TAB CRIMP 18-2	2	
78	78		9007834-00	TAPE, DOUBLE COATED, 1/2" WIDE,	A/R	

D	I	G	I	T	A	L	TITLE	SECTION	SIZE	CODE	DOCUMENT NUMBER	REV
							BATTERY CHARGER	A OF A	K	PL	5411625-0-DBP	H

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
79	79		9008268-00	COMPOUND, THERMAL JOINT	A/R	
80	80		9006664-00	WASHER, FLAT, .437 OD X .218 ID	2	
81	81	D-CS-5411625-0-1		MODULE H775	REF	
82	82	D-AH-5411625-0-5		ASSY/DRILLING HOLE LAYOUT	REF	
83	83	BLANK			0	
84	84		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	23	W1-W12,W14-W20,W30,W31,W34,W40
85	85	BLANK		*** THIS ITEM IS NOT USED ***	-	

DIGITAL	TITLE	SECTION	SIZE	CODE	DOCUMENT NUMBER	REV
	BATTERY CHARGER	A OF A	K	PL	5411625-0-DBP	H