

digital

RK15

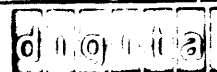
Engineering Drawings

Digital Equipment Corporation

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EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

DRAWING DIRECTORY

CUSTOMER PRINT SET INDEX

THIS IS PRINT SET

					X
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SEQUENCE	SEQUENCE
DRAWING DIRECTORY	
RK15	B-DD-RK15-0
DISK CARTRIDGE SYS	
RK15	D-UA-RK15-0-0
ENG. SPECIFICATION	A-SP-RK15-0-1
CUST. ACCEPTANCE	A-SP-RK15-0-4
ACCESSORY LIST	A-AL-RK15-0-5
SOFTWARE LIST	A-SL-RK15-0-6
FAN HOUSING ASSY	D-AD-7006115-0-0
FAN HOUSING ASSY (PL)	A-PL-7006115-0-0
UNICHANNEL 15	B-DD-UC15-0

MFG. PRINT SET

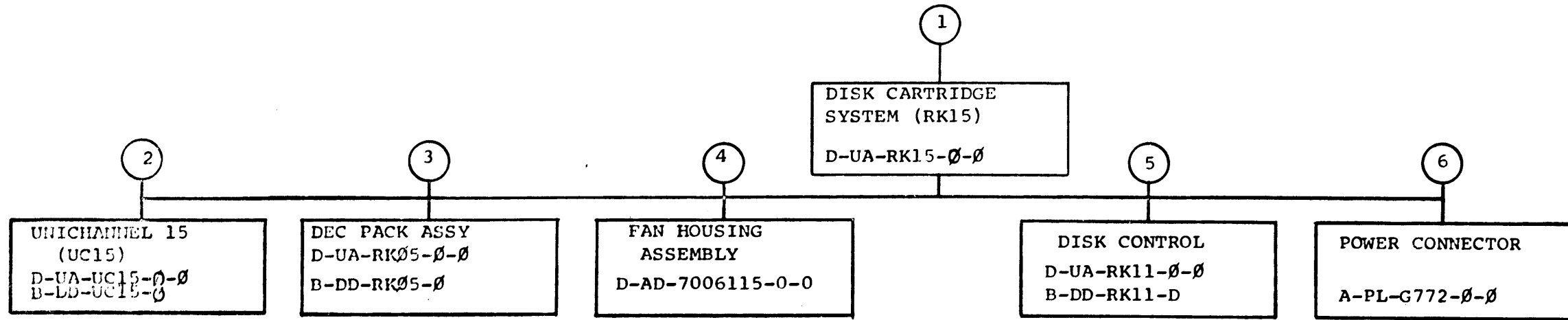
DISK CARTRIDGE SYSTEM	D-UA-RK15-0-0
FAN HOUSING ASSY.	D-AD-7006115-0-0
FAN HOUSING ASSY (PL)	A-PL-7006115-0-0
ENGINEERING SPEC	A-SP-RK15-0-1
FACTORY ACCEPTANCE	A-SP-RK15-0-2
CHECKOUT AND BUILD	A-SP-RK15-0-3
CUSTOMER ACCEPTANCE	A-SP-RK15-0-4

UNIT VARIATIONS

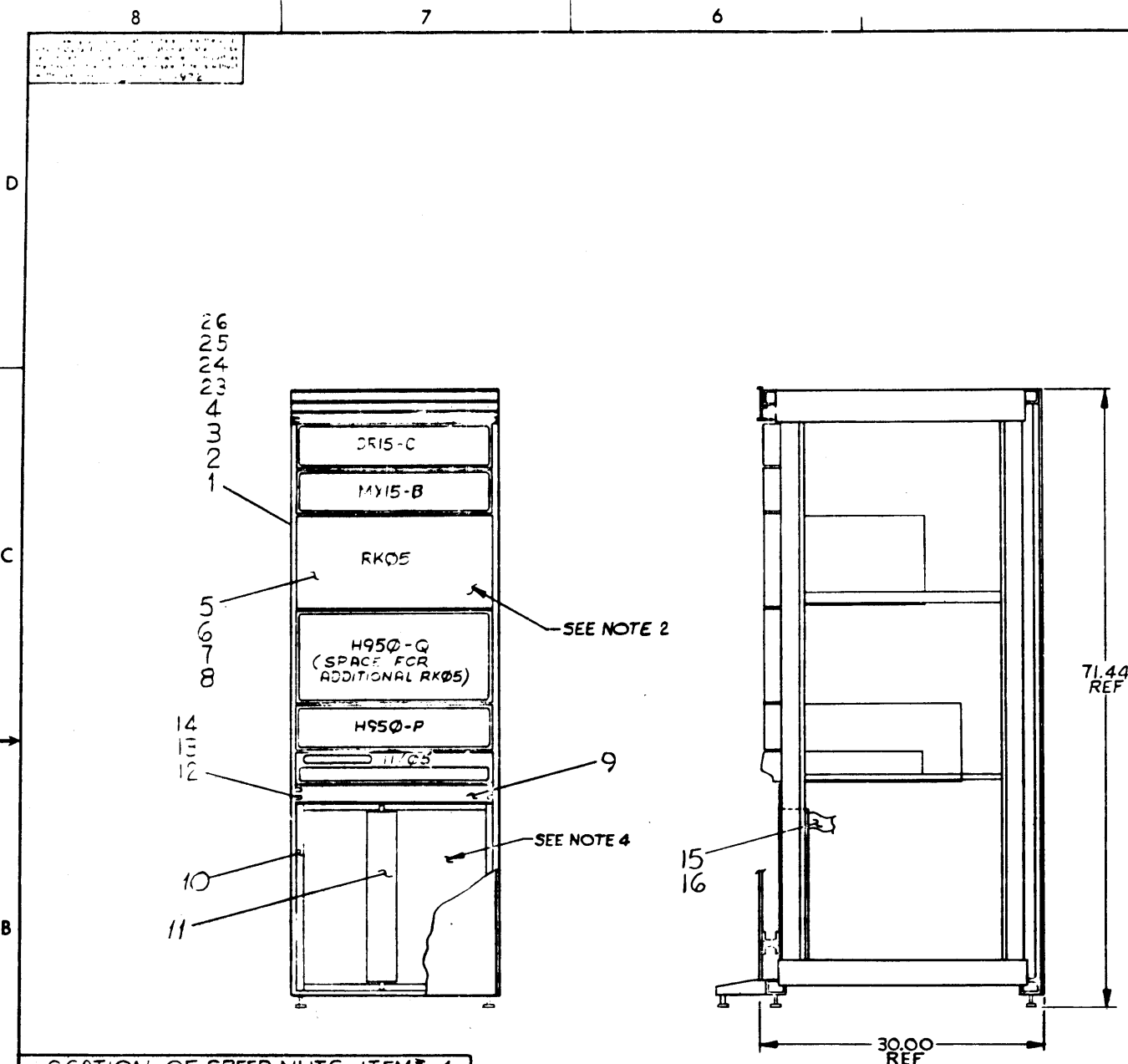
VARIATION	TITLE	PRINT SET TYPE					
		RK15-0					
RK15-FA	DISK CARTRIDGE SYSTEM (4K)	X					
RK15-FB	DISK CARTRIDGE SYSTEM (4K)	X					
RK15-FC	DISK CARTRIDGE SYSTEM (4K)	X					
RK15-FD	DISK CARTRIDGE SYSTEM (4K)	X					
RK15-FE	DISK CARTRIDGE SYSTEM (4K)	X					
RK15-FF	DISK CARTRIDGE SYSTEM (8K)	X					
RK15-FH	DISK CARTRIDGE SYSTEM (8K)	X					
RK15-FJ	DISK CARTRIDGE SYSTEM (8K)	X					
RK15-FK	DISK CARTRIDGE SYSTEM (8K)	X					
RK15-FE	DISK CARTRIDGE SYSTEM (8K)	X					
RK15-FH	DISK CARTRIDGE SYSTEM (8K)	X					
RK15-FJ	DISK CARTRIDGE SYSTEM (8K)	X					
RK15-FK	DISK CARTRIDGE SYSTEM (8K)	X					
RK15-HJ	DISK CARTRIDGE SYSTEM (8K)	X					
RK15-HK	DISK CARTRIDGE SYSTEM (12K)	X					
RK15-HL	DISK CARTRIDGE SYSTEM (12K)	X					
RK15-HM	DISK CARTRIDGE SYSTEM (12K)	X					
RK15-HN	DISK CARTRIDGE SYSTEM (12K)	X					

REV	DATE	DESCRIPTION
1		
2		
3		

USED ON OPTIMUM MODEL	DATE 11/22/72	DRAWING DIRECTORY RK15	TITLE

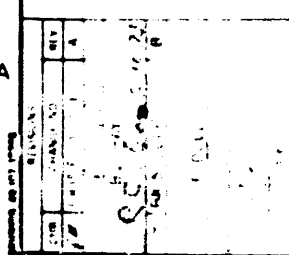


TITLE	DATE	REV
DRAWING DIRECTORY RK15	1972 07 30	C



LOCATION OF SPEED NUTS ITEM #14
LOCATE ALL NUTS BY COUNTING HOLES UP FROM BOTTOM OF CABINET FRAME.

FRONT HOLE NUMBERS	REAR HOLE NUMBERS
18, 30, 31, 32 BOTH SIDES	57, 60, BOTH SIDES
34, 60, 75, 78	75, 78
RIGHT SIDE HOLE NUMBERS	LEFT SIDE HOLE NUMBERS
NONE	NONE



LEGEND

NUMBER	VARIATION
RK15-FA	4K 115V 60HZ
RK15-FB	4K 230V 60HZ
RK15-FC	4K 115V 50HZ
RK15-FD	4K 230V 50HZ
RK15-FE	8K 115V 60HZ
RK15-FF	8K 230V 60HZ
RK15-FH	8K 115V 50HZ
RK15-FJ	8K 230V 50HZ
RK15-HE	8K 115V 60HZ
RK15-HF	8K 230V 50HZ
RK15-HH	8K 230V 60HZ
RK15-HJ	8K 115V 50HZ
RK15-HK	12K 115V 60HZ
RK15-HL	12K 230V 50HZ
RK15-HIA	12K 230V 60HZ
RK15-HN	12K 115V 50HZ

NOTES:

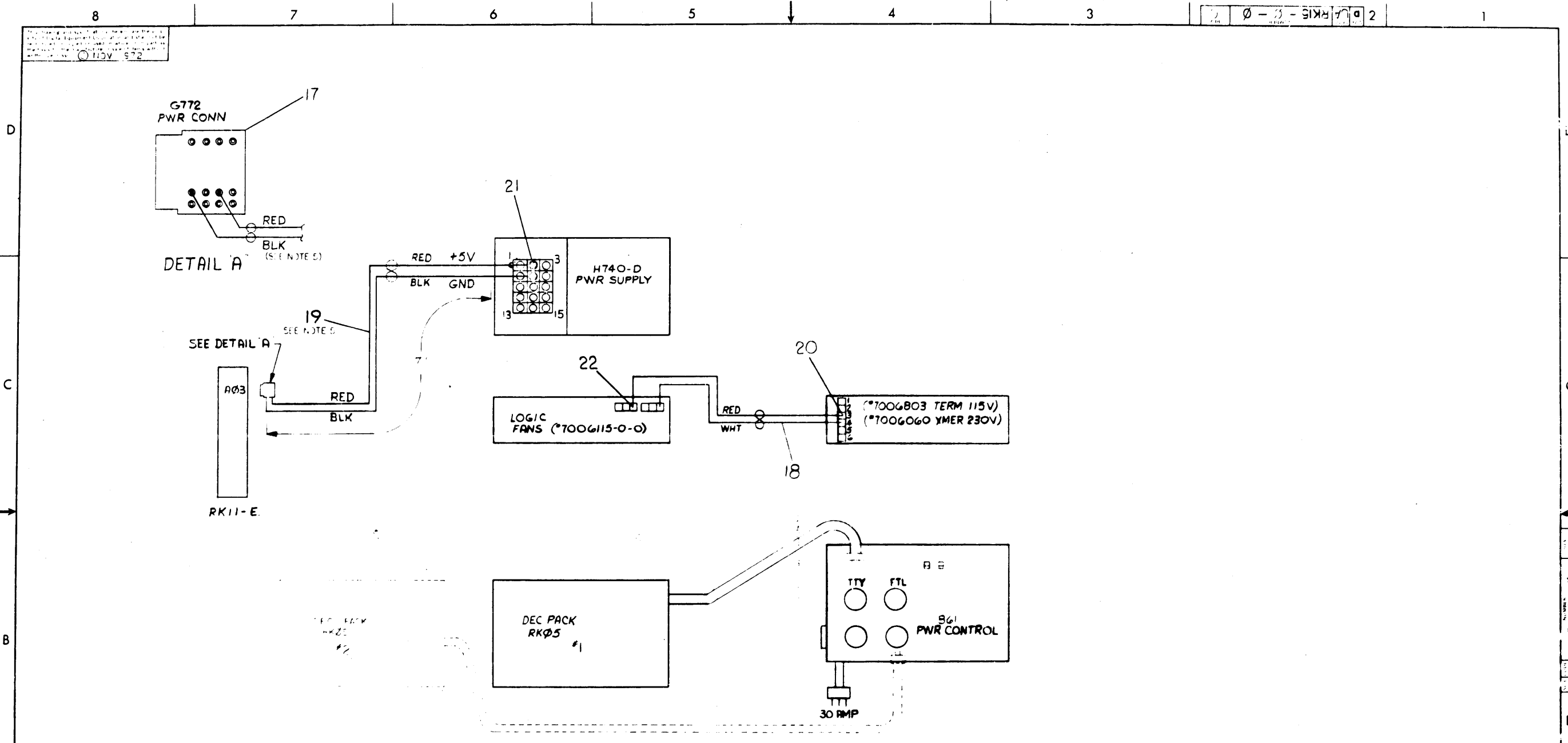
- FOR DRAWING DIRECTORY REFER TO B-DD-RK15-0
- BEFORE INSTALLING RK05 (ITEM #5 THRU #7) REMOVE & DISCARD BLANK PANEL (H950-G) SUPPLIED BY THE UCIS
- FOR CABLE CONNECTIONS REFER TO ENG SPECIFICATION A-SP-RK15-0-1
- THIS AREA ALSO USED TO MOUNT AN OPTIONAL BAIL. FROM THE BAIL REMOVE & DISCARD H950 COVER PANEL. ALSO REMOVE & DISCARD ITEMS 9, 10, 17, 18, 19, 21
- LENGTH OF ITEM 19 MUST BE THE SAME AS ITEM 22 ON INSTALLING. WITH UCIS-0-0 (LR15-C TO H950-D) TO INSURE PROPER ALIGNMENT AT BOTH LR15-C AND RK15-D (MINIMALLY 7 FEET).

SEE NOTE 3

						HARNESS	7008992	27
						HARNESS	7009399	28
						DISK PACY	301085-00	27
						UNI CHANNEL 15 ASSY	D-VA-UC15-FH	26
						UNI CHANNEL 15 ASSY	D-VA-UC15-HK	25
						UNI CHANNEL 15 ASSY	D-VA-UC15-HF	24
						UNI CHANNEL 15 ASSY	D-VA-UC15-HE	23
						SOLDERLESS CONN	9007917	22
						PIN MATE-N-LOCK	209378-01	21
						SOLDERLESS CONN	9007928	20
						WIRE #14 AWG TWP BLK/RED	9107440-02	19
						WIRE #14 AWG TWP RED/WHI	9107440-29	18
						POWER CONNECTOR	A-PL-6772-0-0	7
						CABLE BC11A	D-VA-BC11A-0-0	16
						CABLE BC11A	D-VA-BC11A-BF-0	15
						NUT, TINNEDMAN #10-32	9007786	14
						WASHER EXT TOOTH #10	9007651	13
						SCR, PHL HD TRUSS #10-32 X 5/8	9006074-3	12
						DISK CONTROL (RK11-E)	D-VA-RK11-E-0	11
						FRAME LOGIC MOUNTING	E-1A-7408379-0-0	10
						FRM HOUSING ASSY	D-02-7006115-0-0	9
						DEC PACK ASSY	D-VA-RK05-EB-0	8
						DEC PACK ASSY	D-VA-RK05-BA-0	7
						DEC PACK ASSY	D-VA-RK05-AB-0	6
						DEC PACK ASSY	D-VA-RK05-RA-4	5
						UNI CHANNEL 15 ASSY	D-VA-UC15-FF-0	4
						UNI CHANNEL 15 ASSY	D-VA-UC15-FE-0	3
						UNI CHANNEL 15 ASSY	D-VA-UC15-FB-0	2
						UNI CHANNEL 15 ASSY	D-VA-UC15-FA-0	1

QUANTITY

DESCRIPTION	PART NO	ITEM NO
PDP15		
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES		
DECIMALS	ANGLES	
XXX - .005	10° 30'	
XX - .01		
X - .01		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		
MATERIAL	REVT NUMBER ASSY	
FINISH		
PARTS LIST		
EQUIPMENT CORPORATION		
TITLE DISK CARTRIDGE SYSTEM (RK15)		
SCALE	DUAL CODE	NUMBER
1 OF 2	DUA RK15-0-0	C



AC/DC POWER WIRING

FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO	REV
PDP15				
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES				
DECIMALS	ANGLES	TITLE		
XXX .005	10° 30'	DISK CARTRIDGE SYSTEM		
XX .02		REV 5		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL		DUAL RK15 - U - C		
FINISH				

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS						
ENGINEERING SPECIFICATION				DATE 1/19/73		
TITLE RK15 Engineering Specification						
REVISIONS						
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE
A	ECO CHANGE	RK15-00002	DOLL	6/74	F. DOLL	7-16-74
B	ECO CHANGE	R0003	FDOLL	4/75	F. DOLL	4-16-75

APPD	<i>R.C. Gray</i>	APPD	<i>R.C. Gray</i>	SIZE	CODE	NUMBER	REV
				A	SP	RK15-0-1	B

SHEET 1 OF 5

ENGINEERING SPECIFICATION		CONTINUATION SHEET
TITLE RK15 Engineering Specification		
0.0 Overall Description		
<p>The RK15 is a removable disk cartridge system that operates on the PDP-15 computer system. It includes the Unichannel 15, through which it interfaces to the PDP-15 computer. Hence, the RK15 includes not only a disk cartridge drive and disk drive controller, but also includes the UC15 consisting of a PDP-11 computer, a memory bus multiplexer, an interrupt link facility and a cabinet.</p>		
1.0 General Specification		
1.1 Definition of Basic System		
<p>The basic RK15 system includes:</p> <ul style="list-style-type: none"> an RK05 disk cartridge drive; an RK11-E disk cartridge controller; and a UC15 Unichannel 15. <p>One additional RK05 disk drive may be installed in the basic RK15/UC15 cabinet.</p>		
1.2 List of Included Options		
<u>Quantity</u>	<u>Option No.</u>	<u>Description</u>
1	RK05	disk drive
1	RK11-E	disk controller
1	UC15	Unichannel 15
1	MX15-B	multiplexer
1	DR15-C	interface
2	DR11-C's	interface
1	H963	cabinet
1	H740-D	power supply
1	841-C	power control
1	PDP-11/05	processor
1.3 Mechanical Packaging		
<p>The RK15 components mount in the UC15 cabinet as shown in figure 1.3.</p> <p>Power is supplied to the RK11-E from the H740-D power supply.</p> <p>Forced air cooling is provided by a 3 fan array on top of the RK11-E mounting frame.</p>		

APPD		APPD		SIZE	CODE	NUMBER	REV
				A	SP	RK15-0-1	B

SHEET 2 OF 5

ENGINEERING SPECIFICATION		CONTINUATION SHEET											
TITLE RK15 Engineering Specification													
FRONT	REAR												
<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td style="text-align: center;">DR15-C</td></tr> <tr><td style="text-align: center;">MX15-B</td></tr> <tr><td style="text-align: center;">RK05</td></tr> <tr><td style="text-align: center;">Blank (RK05 #2)</td></tr> <tr><td style="text-align: center;">Blank or 10" 11/05</td></tr> <tr><td style="text-align: center;">PDP-11/05 and 2 DR11-C's</td></tr> <tr><td style="text-align: center;">H740-D</td></tr> </table>	DR15-C	MX15-B	RK05	Blank (RK05 #2)	Blank or 10" 11/05	PDP-11/05 and 2 DR11-C's	H740-D	<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td style="text-align: center;">RK05</td></tr> <tr><td style="text-align: center;">10" 11/05</td></tr> <tr><td style="text-align: center;">PDP-11/05</td></tr> <tr><td style="text-align: center;">H740-D</td></tr> </table>	RK05	10" 11/05	PDP-11/05	H740-D	
DR15-C													
MX15-B													
RK05													
Blank (RK05 #2)													
Blank or 10" 11/05													
PDP-11/05 and 2 DR11-C's													
H740-D													
RK05													
10" 11/05													
PDP-11/05													
H740-D													

Fig. 3.1

APPD		APPD		SIZE	CODE	NUMBER	REV
				A	SP	RK15-0-1	B

SHEET 3 OF 5

ENGINEERING SPECIFICATION		CONTINUATION SHEET
TITLE RK15 Engineering Specification		
1.4 Environmental/Power		
<p>See Engineering Specifications for:</p> <ul style="list-style-type: none"> RK05; RK11-D/E. 		
1.5 General Performance Specification		
<p>See Engineering Specifications for:</p> <ul style="list-style-type: none"> RK05; RK11-D/E; UC15. 		
2.0 Vendor Supplied Equipment		
None.		
3.0 Programming		
<p>See Engineering Specifications for:</p> <ul style="list-style-type: none"> RK05; RK11-D/E; UC15. 		
4.0 Interfaces		
<p>See Engineering Specifications for:</p> <ul style="list-style-type: none"> RK05; RK11-D/E; UC15; DR11-C; PDP-15. 		
5.0 Cables		
Type	From	To
RC11A-10	MX15-B A1, B1	RK11-E A1, B1
BC11A-8	RK11-E A2, B2	RK05 A7, B7
<p>5" 11/05 FROM 10" 11/05 TO</p>		
6.0 OPTION NUMBERS		
<u>Number</u>	<u>Variation</u>	<u>Number</u> <u>Variation</u>
RK15-FA	4K 115V 60Hz	RK15-FE 9K 115V 60Hz
RK15-FB	4K 230V 60Hz	RK15-FF 8K 230V 60Hz
RK15-FC	4K 115V 50Hz	RK15-FH 8K 115V 50Hz
RK15-FD	4K 230V 50Hz	RK15-FJ 8K 230V 50Hz

APPD		APPD		SIZE	CODE	NUMBER	REV
				A	SP	RK15-0-1	B

SHEET 4 OF 5

ENGINEERING SPECIFICATION



CONTINUATION SHEET

TITLE RK15 ENGINEERING SPECIFICATION

6.0	<u>NUMBER</u>	<u>VARIATION</u>
	RK15-HE	8K 115V 60HZ
	RK15-HF	8K 230V 50HZ
	RK15-HH	8K 230V 60HZ
	RK15-HJ	8K 115V 50HZ
	RK15-HK	12K 115V 60HZ
	RK15-HL	12K 230V 50HZ
	RK15-HM	12K 230V 60HZ
	RK15-HN	12K 115V 50HZ

028	COSC	NUMBER	REV
SP		RK15-0-1	0

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

DATE 2/16/73

TITLE RK15 CUSTOMER ACCEPTANCE PROCEDURE

REVISIONS

REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE
A	ECO CHANGE	RK15-00002	DOLL	6/74	F. N. D.	7/1-74

1.0 SCOPE

1.1 The following steps will be followed to accept and insure that all necessary paper work, diagnostics, etc., are included with the RK15.

2.0 HARDWARE AND SOFTWARE

2.1 Refer to Appendix I and II for a complete list of the necessary hardware and software.

3.0 TEST SOFTWARE

3.1 ABSL-11 Loader.

3.2 UC15 Diagnostics.

3.3 PDP-15 System Exercisor with UC15 module.

3.4 DEC/X-11 Exercisor with UC15 module.

3.5 RK11 Disk Data Test.

3.6 RK11 Static Test.

3.7 RK11 Random Exercisor.

3.8 PDP-11 (T-17) System Exercisor.

3.9 PDP-11 (GTP) Communication Test Program.

3.10 PDP-11 (GTP) General Test Program.

4.0 PROCEDURE

4.1 The following procedure will be followed step by step to insure the quality of the option.

4.1.1 Visually inspect for loose bolts, power plugs, modules, pinched cables, or bent pins.

ENG. RC Gray	APPD. RC Gray	SIZE A	CODE SP	NUMBER RK15-0-4	REV A
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DEC FORM NO. DRA 107A

SHEET 1 OF 5

ENGINEERING SPECIFICATION

CONTINUATION SHEET

TITLE RK15 CUSTOMER ACCEPTANCE PROCEDURE

4.1.2 Insure that all modules and cables are in their proper slots and well inserted.

4.1.3 Insure that all fans in the cabinet operate.

4.4 Perform UC15 Acceptance.

4.5 Load MAINDEC-11-D5HA1 (Static Test).

4.5.1 Load and start at 200. Run for ten (10) minutes with all switches down.

4.6 Load MAINDEC-11-DZRKG (Random Exercisor).

4.6.1 Load and start at 200. Run test for fifteen (15) minutes with all switches down.

4.7 Load MAINDEC-11-D5HA2 (Disk Data).

4.7.1 Load address 177404 and deposit 000017 into this location. This sets Write Protect. The WT.PROT. light should be lit on the RK05 panel.

4.7.2 Load 000200 and start. This should cause an error since WT.PROT. is set. Halt processor after error occurs.

4.7.3 Depress WT.PROT. switch on RK05 to clear WT.PROT. status.

4.7.4 Enter conversation mode and write complete disk with pattern 10.

4.7.5 *Run power fail tests #1 and #2.

Test #1 - Load 000660 and start 000000. Wait two (2) minutes for "OK" on teletype. Turn power off and on once. When disk regains "ready" status, wait about five (5) minutes for "END" on teletype. One failure is allowed.

Test #2 - Same procedure as test #1 except load 000664 and start 000000. No errors are allowed.

4.7.6 Run acceptance portion of disk data (load 000200 and start 000000) for one pass. No errors are allowed.

*NOTE: Later versions of the disk data MAINDEC have deleted the formal power fail procedure. Refer to the MAINDEC write-up for power fail procedures.

SIZE A	CODE SP	NUMBER RK15-0-4	REV A
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DEC FORM NO. DEC 16-(381)-1022-N370 DRA 108

SHEET 2 OF 5

ENGINEERING SPECIFICATION

CONTINUATION SHEET

TITLE RK15 CUSTOMER ACCEPTANCE PROCEDURE

4.8 Load MAINDEC-11-DZQKB (T-17).

4.8.1 Load address 000200.

4.8.2 Start with all peripherals selected. Refer to program document for switch register settings.

4.8.3 Allow program to run for fifteen (15) minutes. No errors are allowed.

4.9 Load MAINDEC-11-DZQCA (CTP).

4.9.1 Load address 200 and start.

4.9.2 Enable all peripherals on the system. Refer to program document for switch register settings.

4.9.3 Allow program to run for fifteen (15) minutes.

4.10 Load MAINDEC-11-DZQGA (GTP).

4.10.1 Load address 000200.

4.10.2 Enable all peripherals on the system. Refer to program document for starting procedure.

4.10.3 Allow program to run for fifteen (15) minutes.

4.11 When all devices have been checked, load and run PDP-15 System Exercisor with all options that are on the system for at least fifteen (15) minutes.

4.12 At the completion of these steps, the acceptance of the RK15 will be complete.

NOTE: All PDP-11 diagnostics are loaded with the ABS-11 loader. For a printout, disconnect the 15 console TTY and connect it to the 11/05. Connect the dummy TTY plug to the 15 console TTY cable to prevent constant interrupts from occurring on the PDP-15. Without the TTY plug installed, the hardware read in will not work on the 15.

SIZE A	CODE SP	NUMBER RK15-0-4	REV A
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DEC FORM NO. DEC 16-(381)-1022-N370 DRA 108

SHEET 3 OF 5

ENGINEERING SPECIFICATION

CONTINUATION SHEET

TITLE RK15 CUSTOMER ACCEPTANCE PROCEDURE

Appendix I

Hardware Check List for RK15

One UC15

One RK11E

One RK05 with chassis slides

One left RK05 shipping bracket, 749691-1

One right RK05 shipping bracket, 749691-2

One Transparent Overlay for RM11-A (5509081-11)

One cartridge disk (30-10350-00)

One recording head cleaning kit (22-00-007)

One BC11A-10

One BC11A-8 Drive Cable

Omit the following items if the RK11 is housed in a Ball, OR 10" 11/05.

One fan assembly, 7006115

One mounting frame, 7408379

One 6772 power connector with #14 red and white wire connecting to mate-n-lock pins.

#14 wire 9107440-02 for muffen fan power with solderless connector on each end.

SIZE A	CODE SP	NUMBER RK15-0-4	REV A
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DEC FORM NO. DEC 16-(381)-1022-N370 DRA 108

SHEET 4 OF 5

TITLE RK15 CUSTOMER ACCEPTANCE PROCEDURE

Appendix II

Software Check List for the RK15

All UC15 documentation
RK15 customer print set
RK05 Disk Drive Maintenance Manual DEC-00-RK05-DA
RK05 customer print set
H743 customer print set
RK11E customer print set
RK11 Data and Static Test Listing 11-D5HA-D
RK11 Data Test 11-D5HA-PB2
RK11 Static Test 11-D5HA-PB1
RK11 Random Exercisor 11-DZRKG-A-PB
RK11 Random Exercisot 11-DZRKG-A-D
RK11-D Maintenance Manual DEC-11-HRKDA-A-D

Keysheet with ECO status contained
Customer Acceptance Form
Installation Report

SIZE	CODE	NUMBER	REV
A	SP	RK15-0-4	A

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			LEGEND		QUANTITY / VARIATION					
ACCESSORY LIST			D	DOCUMENT						
MADE BY V. SOUZA DATE 1/19/73			CHECKED <i>D. J. (Signature)</i> DATE 1-20-73	DN	DOCUMENT CHANGE NOTICE					
ENG DATE <i>A. HELMUS</i>			PROD <i>D. Souza</i> DATE 2/5/73	PA	PAPER TAPE ASCII					
			ISSUED SECT. 1	PB	PAPER TAPE BINARY					
				PM	PAPER TAPE READ-IN-MODE					
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION								
1	D-UA-UC15-F-Ø	DUMMY TTY PLUG	1							
2	C-UA-BCØ1S-Ø3-Ø	TTY EXTENTION CABLE	1							
3	D-IA-7008360-0-0	BERG TO TTY CABLE ASSY	1							
4	D-UA-BCØ8R-Ø1-Ø	BERG TO BERG CABLE ASSY	2							
5	C-IA-5408778-0-0	LEVEL 5 PRIORITY JUMPER PLUG	1							
6	A-SS-5509081-11	TRANSPARENT OVERLAY TO KM11-A	1							
7	A-PS-2200007-0-0	RECORDING HEAD CLEANING KIT	1							
8	A-PS-3010350-0-0	CARTRIDGE DISK	1							
9	C-IA-7409691-1-0	SHIPPING BRACKET (LEFT) RKØ5	1							
10	C-IA-7409691-2-0	SHIPPING BRACKET (RIGHT) RKØ5	1							
11	DEC-11-HØ5AA-A-D	PDP 11/Ø5 MAINTENANCE MANUAL	1							
12	DEC-11-HDRCA-A-D	DR11-C MAINTENANCE MANUAL	1							
13	DEC-11-HUCMA-A	UC15-Ø MAINTENANCE MANUAL	1							
14	DEC-ØØ-RKØ5-DA	RKØ5 MAINTENANCE MANUAL	1							
15	DEC-11-HRKDA-A-D	RK11-D MAINTENANCE MANUAL	1							
16	B-DD-11Ø5-Ø	PDP 11/Ø5 CUSTOMER PRINT SET	1							
17	B-DD-DR11-C	DR11-C CUSTOMER PRINT SET	1							
18	B-DD-UC15-F	UC15-Ø CUSTOMER PRINT SET	1							
19	B-DD-H740-D	H740-D CUSTOMER PRINT SET	1							
20	D-UA-841-C-Ø	841-C CUSTOMER PRINT SET	1							
21	B-DD-RKØ5-Ø	RKØ5 CUSTOMER PRINT SET	1							
TITLE ACCESSORY LIST (RK15)			ASSY. NO.	SIZE CODE A AL	NUMBER RK15-0-5			REV. A	ECO NO RK15-00002	
			SHEET 1 OF 2	DIST.						

DEC 16-(325)-1075-N172 DRA 121

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			LEGEND		QUANTITY / VARIATION					
ACCESSORY LIST			D	DOCUMENT						
MADE BY V. SOUZA DATE 1/19/73			CHECKED <i>D. J. (Signature)</i> DATE 1-20-73	DN	DOCUMENT CHANGE NOTICE					
ENG DATE <i>A. HELMUS</i>			PROD <i>D. Souza</i> DATE 2/5/73	PA	PAPER TAPE ASCII					
			ISSUED SECT. 1	PB	PAPER TAPE BINARY					
				PM	PAPER TAPE READ-IN-MODE					
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION								
22	B-DD-RK11-D	RK11-D AND RK11-E CUSTOMER PRINT SET	1							
23	B-DD-RK15-Ø	RK15 CUSTOMER PRINT SET	1							
24	B-DD-H743-Ø	H743 CUSTOMER PRINT SET	1							
25	9007221	FUSE 5 AMP GLASS	5							
26	9007224	FUSE 7 AMP GLASS	5							
27	9107673-6	CORD 14/3 WIRE (BLACK)	1							
TITLE ACCESSORY LIST (RK15)			ASSY. NO.	SIZE CODE A AL	NUMBER RK15-0-5			REV. A	ECO NO	
			SHEET 2 OF 2	DIST.						

DEC 16-(325)-1075-N172 DRA 121

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS SOFTWARE LIST					QUANTITY/VARIATION													
MADE BY <i>RE. LOUGER</i>		CHECKED <i>P.J. LEBLANC</i>		SECTION	RK15-FA	RK15-FB	RK15-FC	RK15-FD	RK15-FE	RK15-FF	RK15-FH	RK15-FJ	RK15-HE	RK15-HF	RK15-HH	RK15-HJ		
DATE <i>1/19/73</i>		DATE <i>1-20-73</i>		1														
ENG <i>A. HELENIUS</i>		PROD <i>D. S. REGA</i>		ISSUED SECT.														
DATE <i>2/5/73</i>		DATE <i>2/5/73</i>		1														
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION																
1	LIBKIT 11/05 BASEA-A-K	PDP-11/05 Basic Diagnostic Kit					1	1	1	1	1	1	1	1	1	1	1	1
2	LIBKIT-11-DR11C-01	DR11C Diagnostic Kit					1	1	1	1	1	1	1	1	1	1	1	
3	LIBKIT-11-RK11-0	RK11 Diagnostic Kit					1	1	1	1	1	1	1	1	1	1	1	
4	LIBKIT-15-UC15A-A-K	UC15 Diagnostic Kit - 4K Paper Tape					1	1	1	1								
5	LIBKIT-15-UC15B-A-K	UC15 Diagnostic Kit - 8K Paper Tape									1	1	1	1	1	1	1	
TITLE					ASSY NO.		SIZE	CODE	NUMBER				REV.	ECO NO.				
RK15 DISK CARTRIDGE SOFTWARE LIST					SHEET 1 OF 2		A	SL	RK15-0-6				A	RK15-00002				
							DIST.											

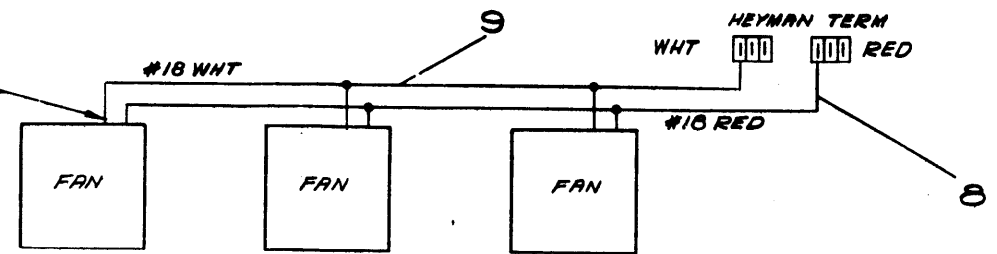
DEC FORM DEC 16-(325)-1031-N870
DRA 110

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS SOFTWARE LIST					LEGEND		QUANTITY/VARIATION										
MADE BY <i>V.E. SOUZA</i>		CHECKED <i>P.J. LEBLANC</i>		SECTION	D	DOCUMENT	RK15-HK	RK15-HL	RK15-HM	RK15-HN	KIT CHECK	BY	DATE	INSTALLATION CHECK	BY	DATE	
DATE <i>1/19/73</i>		DATE <i>1/20/73</i>		2	DN	DOCUMENT CHANGE NOTICE											
ENG <i>A. HELENIUS</i>		PROD <i>D. SBREGA</i>		ISSUED SECT.	PA	PAPER TAPE ASCII											
DATE		DATE <i>2/5/73</i>		2	PB	PAPER TAPE BINARY											
					PM	PAPER TAPE READ-IN-MODE											
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION															
1	LIBKIT 11/05 BASEA-A-K	PDP 11/05 BASIC DIAGNOSTIC KIT															
2	LIBKIT-11-DR11C-01	DR11C DIAGNOSTIC KIT															
3	LIBKIT-11-RK11-0	RK11 DIAGNOSTIC KIT															
4	LIBKIT 15 UC15A-A-K	UC15 DIAGNOSTIC KIT-4K PAPER TAPE															
5	LIBKIT-15-UC15B-A-K	UC15 DIAGNOSTIC KIT-8K PAPER TAPE															
TITLE					ASSY NO.		SIZE	CODE	NUMBER				REV.	ECO NO.			
					SHEET 2 OF 2		A	SL	RK15-0-6				A				
							DIST.										

DEC FORM NO. DEC 16 (327)-1049-N471
DRA 120

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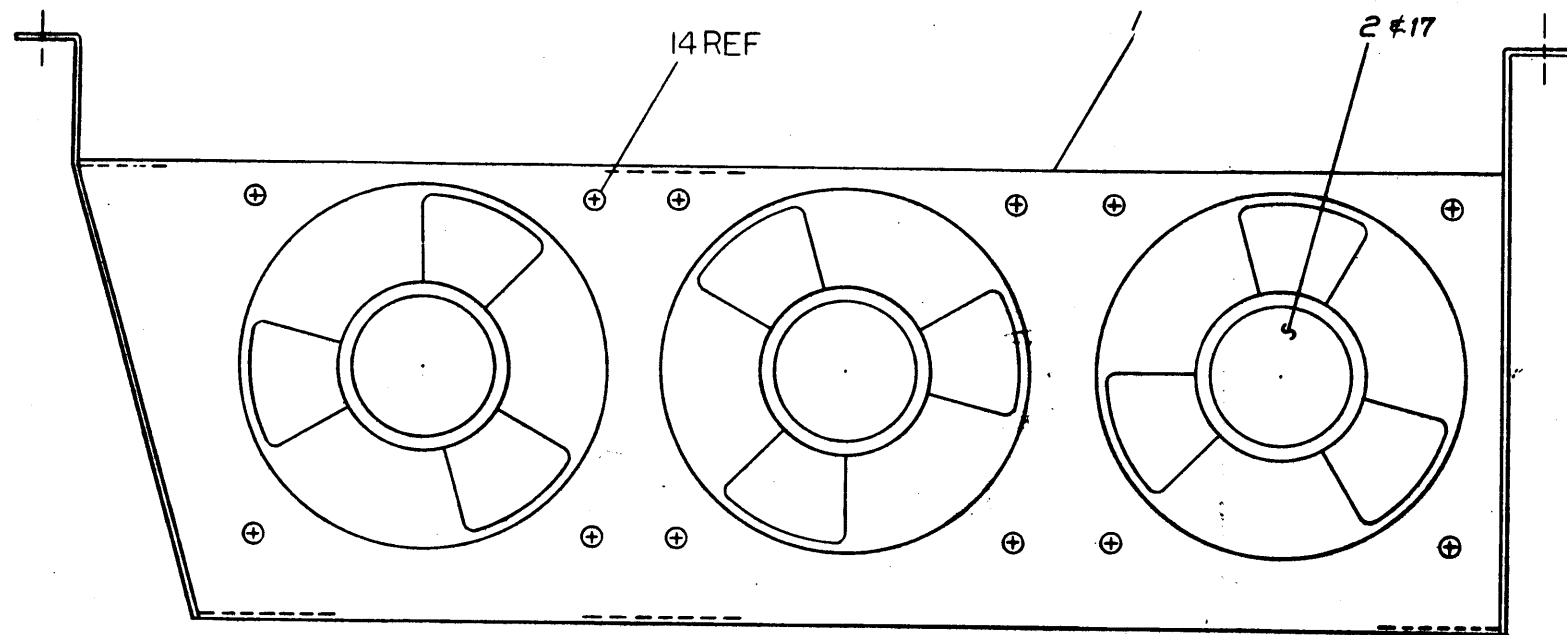
SEE NOTE 1



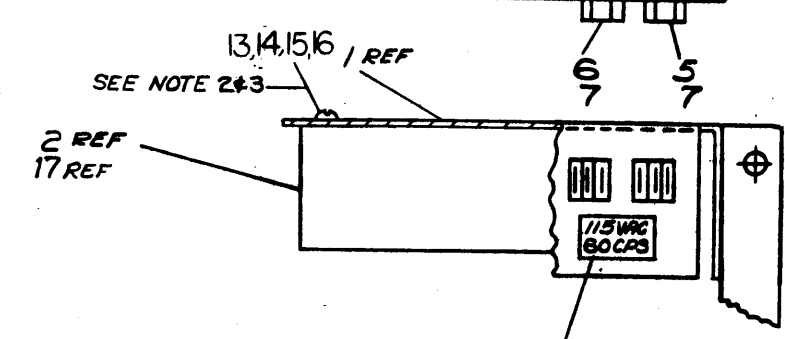
WIRING DIAGRAM

LEGEND	
NUMBER	VARIATION
7006115-0	ROTRON REGULAR FAN OR IMC REGULAR FAN
7006115-1	ROTRON WHISPER FAN OR IMC QUIET FAN

- NOTES:
1. PLACE APPROXIMATELY 3/16 INCH LONG PIECE NY-SHRINK TUBING OVER EACH CONN OF WIRE TO FAN.
 2. USE ITEM 15 WITH 12-05032-02 (IMC) & ITEM 13, 14 & 16 WITH 12-05032-01 (ROTRON) FANS.
 3. USE ITEM #15 WITH FAN #1209942-02 (IMC) & ITEM 13, 14 & 16 WITH FAN #1209942-01 (ROTRON).



DIRECTION OF AIRFLOW ↓



REV	DATE	BY	CHKD	DESCRIPTION
1	19-00019	A		INITIAL DESIGN
2	15-00040	B		MINOR
3	15-00057	E		MINOR
4	15-00057	E		MINOR
5	15-00057	E		MINOR
6	15-00057	E		MINOR
7	15-00057	E		MINOR
8	15-00057	E		MINOR

REV	DATE	BY	CHKD	DESCRIPTION
1	19-00019	A		INITIAL DESIGN
2	15-00040	B		MINOR
3	15-00057	E		MINOR
4	15-00057	E		MINOR
5	15-00057	E		MINOR
6	15-00057	E		MINOR
7	15-00057	E		MINOR
8	15-00057	E		MINOR

FAN HOUSING ASS'Y

DJAD 7006115-0-0

D AD 7006115-0-0 H

DIGITAL EQUIPMENT CORPORATION
MAYNARD MASSACHUSETTS
PARTS LIST

DIGITAL EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS PARTS LIST			QUANTITY/VARIATION																				
MADE BY J. DEVIN		CHECKED J. MADDEN	SECTION		7006115-0	7006115-1																	
DATE 4/11/69		DATE 4/17/69	1																				
ENG <i>Dr. Butcher</i>		PROD/	ISSUED SECT.																				
DATE 7/1/69		DATE	1																				
ITEM NO	DWG NO. / PART NO.	DESCRIPTION																					
1	D-IA-7407287-0-0	FAN HOUSING		1	1																		
	1205033-01 OR -02	FAN,		3																			
	9006024-1	SCR, PHL FLAT HEAD 6-32 X 1/2 LG SST		12																			
	9006560	NUT KEPS HEX #6-32 SST		12																			
	9007231	PUSH, JUNC TERM RED #DC-202-3 HEYMAN		3	3																		
	9007235	BUSH, JUNC TERM WHT #DC-202-3 HEYMAN		3	3																		
	9007238	TAB, SOLDER #T-202-S HEYMAN		6	6																		
	910760-22	#18 AWG STRD TFF RED		A/R	A/R																		
	910760-99	#18 AWG STRD TFF WHT		A/R	A/R																		
	9107305-02	HY-SHRINK TUBING RED 9/16 LG		6	6																		
	A-DC-7407311-0-0	DECAL, FAN HOUSING		1	1																		
	9008202	FAN CLIP		12																			
13	9008202	FAN CLIP		12	12																		
14	9006024-2	SCR, PHL FLAT HEAD 6-32 X 1/2		12	12																		
15	9008275-0	SCR, "TAP TITE" PHL FLAT H 8-32 X 1/2		12	12																		
16	9008270-0	WASHER, EXT. TOOTH CS		12	12																		
17	1209942-01 OR -02	FAN, ROTRON OR IMC			3																		

TITLE	ASSY NO.	SIZE CODE	NUMBER	REV	ECO NO.
FAN HOUSING ASSEMBLY	D-AD-7006115-0-0	A PL	7006115-0-0	H	12-00079
	SHEET 1 OF 1	DIST. G			

DRAWING DIRECTORY

MANUFACTURING SET

THIS IS PRINT SET

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SEQUENCE	SEQUENCE
UNICHANNEL 15 (UC15)(PL)	A-PL-UC15-0-0
UNICHANNEL 15 (UC15)	D-UA-UC15-0-0
ACCEPTANCE PROCEDURE	A-SP-UC15-0-2
CHECKOUT PROCEDURE	A-SP-UC15-0-3
ENGINEERING SPEC	A-SP-UC15-0-1
MX CONTROL	D-BS-MX15-B-01
11 ARRIVING (LOW ORDER BITS)	D-BS-MX15-B-02
11 ARRIVING (HIGH ORDER BITS)	D-BS-MX15-B-03
UNIBUS DATA	D-BS-MX15-B-04
15 PORT	D-BS-MX15-B-05
MEMORY BUS	D-IC-MX15-B-06
PROCESSOR BUS	D-IC-MX15-B-07
BYTE REGISTER	D-BS-MX15-B-08
MODULE UTILIZATION	D-MU-MX15-B-09
MODULE UTILIZATION (PL)	A-PL-MX15-B-09
WIRE LIST (MX15-B)	K-WL-MX15-B-WL
I/O BUS	D-IC-DR15-C-01
I/O BUS IN	D-BS-DR15-C-02
CONTROL IN	D-BS-DR15-C-03
TASK CONTROL BLOCK	
POINTER	D-BS-DR15-C-04
API CONTROL	D-BS-DR15-C-05
API ADDRESS	D-BS-DR15-C-06
PI CONTROL	D-BS-DR15-C-07
INTERFACE CABLES	D-IC-DR15-C-08
MODULE UTILIZATION	D-MU-DR15-C-09
MODULE UTILIZATION (PL)	A-PL-DR15-C-09
WIRE LIST (DR15-C)	K-WL-DR15-C-WL
LOGIC ASSY MX15-B	C-AD-7009164-0-0
WIRED ASSY MX15-B	D-AD-7009165-0-0
LOGIC ASSY DR15-C	C-AD-7009167-0-0
WIRED ASSY DR15-C	D-AD-7009166-0-0

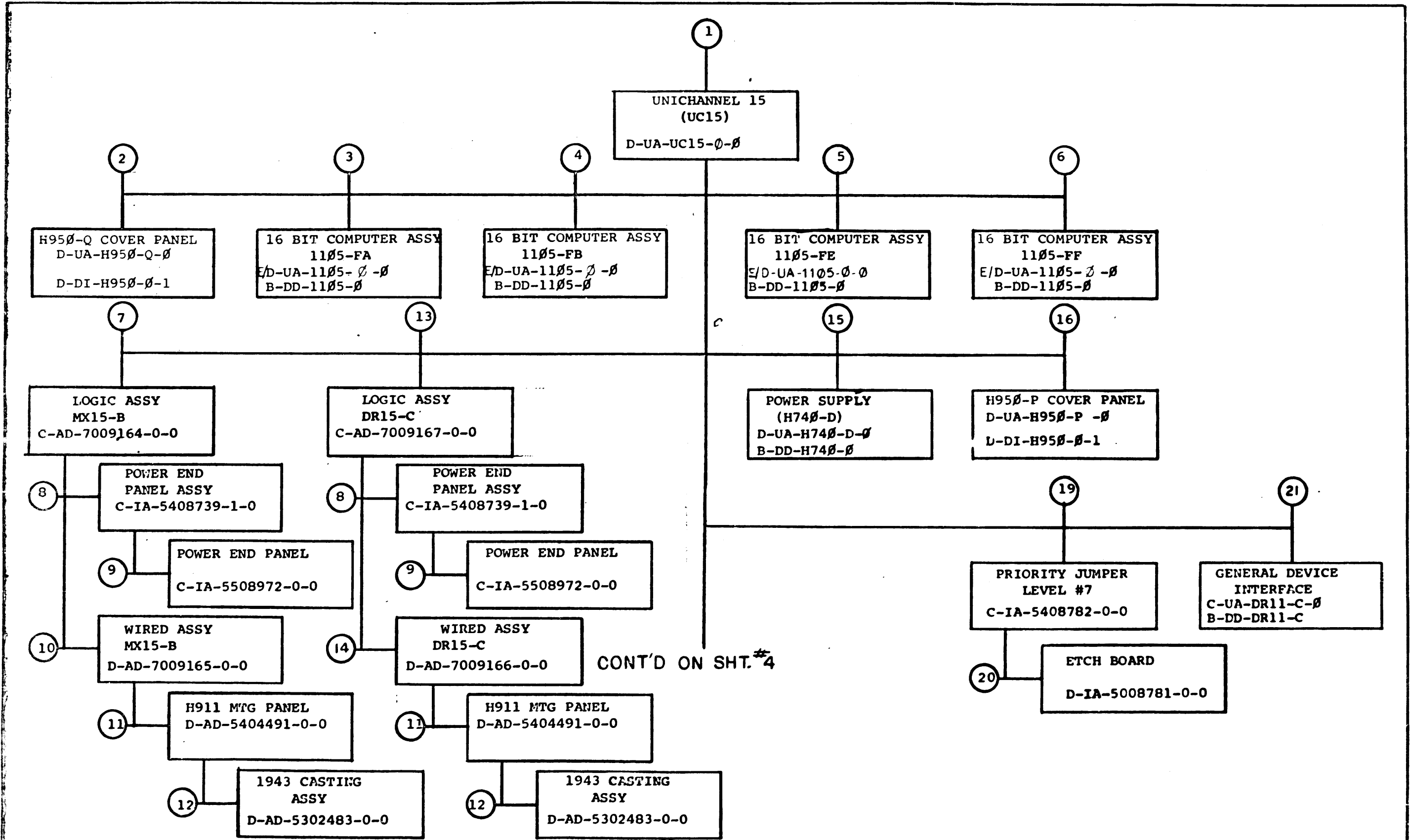
BC08A CABLE	D-UA-BC08A-0-0
BC09B CABLE ASSY	D-UA-BC09B-0-0
CABLE ASSY (BC11A)	D-UA-BC11A-0-0
CABLE INTERFACE BC01S	C-UA-BC01S-0-0
PANEL ASSY (TERM STRIP)	D-AD-7006803-0-0
PANEL ASSY (TERM STRIP) (PL)	A-PL-7006803-0-0
XMER MTG PANEL ASSY	D-AD-7006060-0-0
XMER MTG PANEL ASSY (PL)	A-PL-7006060-0-0
PRIORITY JUMPER LEVEL #7	C-IA-5408782-0-0
CIRCUIT SCHEMATIC	B-CS-5408782-0-1
16 BIT COMPUTER ASSY	E/D-UA-11/05-0-0
16 BIT COMPUTER ASSY (PL)	C-PL-11/05-0-0
H950-K SHORT DOOR	D-UA-H950-K-0
H950-K SHORT DOOR (PL)	A PL H950 K 0
AC RECEPTACLE STRIP ASSY	D-AD-7008853-0-0

UNIT VARIATIONS		PRINT SET TYPE			
VARIATION	TITLE				

I/O CABLE (BC08R) C-UA-BC08R-0-0

REV	DATE

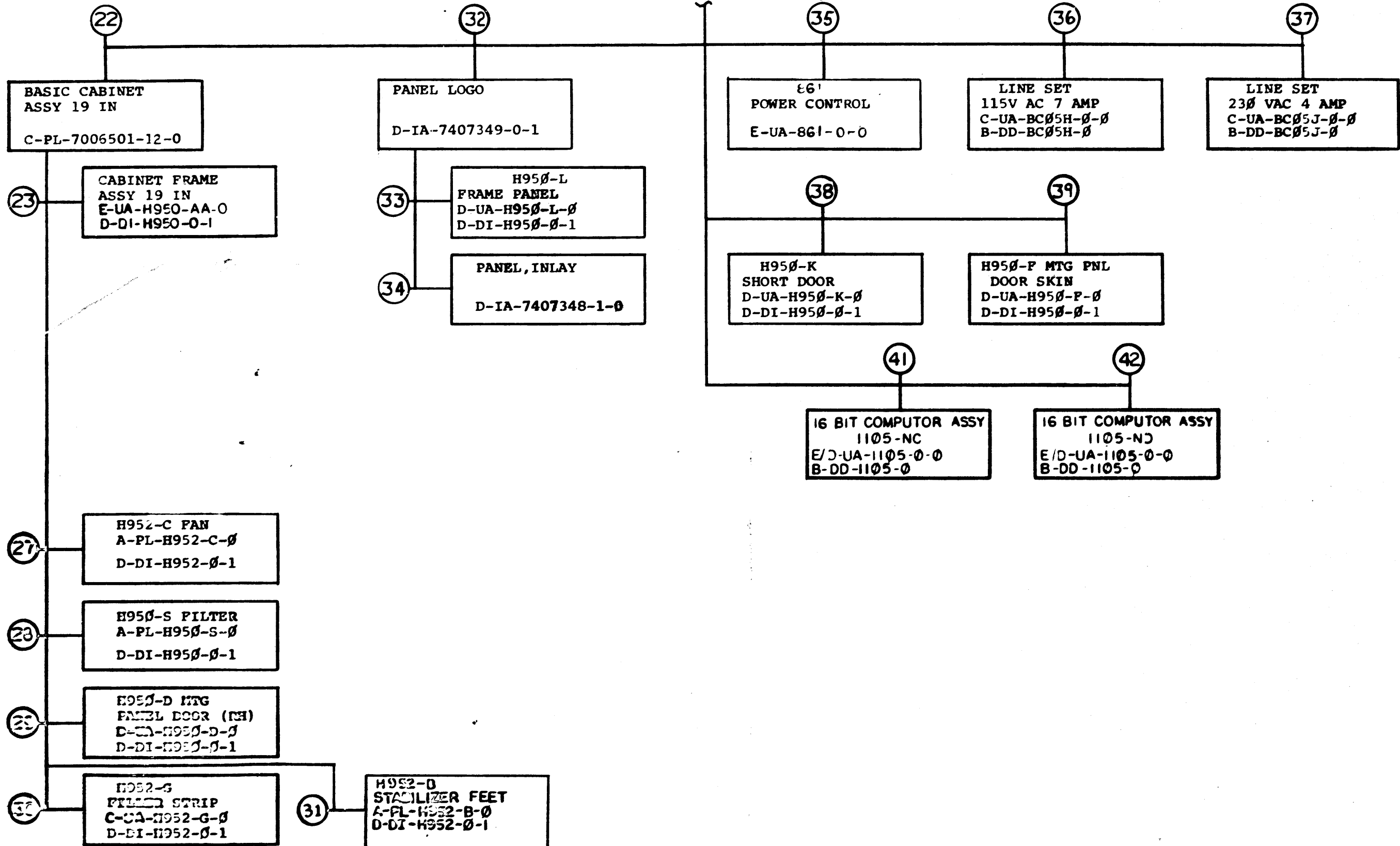
USED ON OPTION/MODEL	DRN <i>W. J. C.</i>	DATE <i>1/11/79</i>	TITLE UC15 DRAWING DIRECTORY
	PROJECT <i>RC</i>	DATE <i>1/11/79</i>	
	FOR <i>W. J. C.</i>	DATE <i>1/11/79</i>	
	FIELD <i>W. J. C.</i>	DATE <i>1/11/79</i>	



CONT'D ON SHT. #4

TITLE UC15-0 DRAWING DIRECTORY	SHEET 3 OF 8	SIZE CODE B DD	NUMBER UC15-0	REV H
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CONT'D FROM SHT 3



TITLE	SHEET 4 OF 8	SIZE CODE	NUMBER	REV
UC15-0 DRAWING DIRECTORY	B DD	UC15-0	H	

CUSTOMER PRINT SET		ELECTRICAL					CUSTOMER PRINT SET		ELECTRICAL						
UC15-0		MFG. SET	FIND NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO / FILE DATE	UC15-0		MFG. SET	FIND NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO / FILE DATE
X		X	1		2	MX CONTROL									
X		X		#	1	11 ARRIVING (LOW ORDER BITS)									
X		X		#	1	11 ARRIVING (HIGH ORDER BITS)		X	X	14	D-AD-7009166-0-0	#	1	WIRED ASSY DR15-C	
X		X		#	1	UNIBUS DATA									
X		X		#	1	15 PORT									
X		X		#	1	MEMORY BUS									
X		X		#	1	PROCESSOR BUS									
X		X		#	1	BYTE REGISTER		X	X	19	B-CS-5408782-0-1	#	1	CIRCUIT SCHEMATIC	
X		X		#	1	MODULE UTILIZATION									
X		X		#	1	MODULE UTILIZATION (PL)									
X		X		#	1	WIRE LIST (MX15-B)									
X		X		#	1	I/O BUS									
X		X		#	1	I/O BUS IN									
X		X		#	1	CONTROL IN									
X		X		#	1	TASK CONTROL BLOCK POINTER									
X		X		#	1	API CONTROL									
X		X		#	1	API ADDRESS									
X		X		#	1	PI CONTROL									
X		X		#	1	INTERFACE CABLES									
X		X		#	1	MODULE UTILIZATION									
X		X		#	1	MODULE UTILIZATION (PL)									
X		X		#	1	WIRE LIST (DR15-C)									
X				#	1	DISK SELECTION									
X				#	1	DISK SELECTION (PL)									
X				#	1	5-D FLIP FLOPS									
X				#	2	UNIBUS POWER FAIL DRIVERS									
X				#	1	UNIBUS DRIVERS									
X				#	1	UNIBUS DRIVERS (PL)									
X				#	1	UNIBUS RECEIVERS									
X				#	1	UNIBUS RECEIVERS (PL)									
X		X		B	25	ENGINEERING SPEC									
X				A	4	CUST. ACCT. PROCEDURE									
X				A	1	ACCESSORY LIST									
X				A	1	SOFTWARE LIST									
X			10		1	WIRED ASSY MX15-B									
					1	REV. REVISION STATUS									

SPD 103
 020 10 1001 1007 00 0000

CUSTOMER PRINT SET	B = PART OF EQUIPMENT INCLUDED IN PRINT SET C = INCLUDES ALL PARTS INDICATED ON EQUIPMENT S = CONFIDENTIAL AUTHORIZED PERSONNEL ONLY	TITLE	UC15-0 DRAWING DIRECTORY	SHEET	5 OF 8	SIZE	COOL	0	CD	NUMBER	UC15-0	REV	4
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CUSTOMER PRINT SET		MECHANICAL					CUSTOMER PRINT SET		MECHANICAL						
UC15-0	SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO / FILE DATE	UC15-0	SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO / FILE DATE
X		X 1	D-UA-UC15-0-0	D	2	UNICHANNEL 15 (UC15)				6	E/D-UA-11/05-0-0		6	16 BIT COMPUTER ASSY (11/05-F F)	
X		X	C-UA-PC08R-0-0	#	1	I/O CABLE (BC08R)					C-PL-11/05-2-0		2	16 BIT COMPUTER ASSY (PL)	
X		X	D-UA-PC08A-0-0	#	1	BC08A CABLE					B-DD-11/05-0		7	DWG. DIRECTORY (11/05FF)	
X		X	D-UA-PC09B-0-0	#	2	BC09B CABLE ASSY									
X		X	D-UA-PC11A-0-0	#	1	CABLE ASSY (BC11A)									
X		X	C-UA-PC01S-0-0	#	1	CABLE INTERFACE BC01S									
			D-MD-7407841-0-0		1	MTG. PANEL (841-B)									
			C-AD-7006419-0-0		1	CABLE ASSY		X	X	7	C-AD-7009164-0-0	#	1	LOGIC ASSY MX15-B	
		X	A-SP-UC15-0-2	A	4	ACCEPTANCE PROCEDURE									
		X	A-SP-UC15-0-3	A	7	CHECKOUT PROCEDURE									
X		X	A-PL-UC15-0-0	D	3	UNICHANNEL 15 (UC15) (PL)									
		2	D-UA-H950-0-0		1	H950-0 COVER PANEL				8	C-IA-5408739-1-0		1	POWER END PANEL ASSY	
			A-PL-H950-0-0		1	H950-0 COVER PANEL (PL)									
			D-DI-H950-0-1		1	DWG INDEX H950									
		X 3	E/D-UA-11/05-0-0	#	6	16 BIT COMPUTER ASSY (11/05-FA)				9	C-IA-5508972-1-0		1	POWER END PANEL	
		X	C-PL-11/05-0-0	#	2	16 BIT COMPUTER ASSY (PL)					A-SS-5508972-0-1		1	SILK SCREEN	
			B-DD-11/05-0		7	DWG DIRECTORY (11/05 FA)					C-MD-5302485-0-0		1	PANEL, LEFT END	
		4	E/D-UA-11/05-0-0	#	6	16 BIT COMPUTER ASSY (11/05-FB)				10	D-AD-7009165-0-0		1	WIRED ASSY MX15-B	
			C-PL-11/05-0-0		2	16 BIT COMPUTER ASSY (PL)					A-DC-7406371-0-0		1	LOGIC FRAME DECALS	
			B-DD-11/05-0		7	DWG DIRECTORY (11/05 FB)									
		5	E/D-UA-11/05-0-0	#	6	16 BIT COMPUTER ASSY (11/05-FE)				11	D-AD-5404491-0-0		1	H911 MTG PANEL	
			C-PL-11/05-0-0		2	16 BIT COMPUTER ASSY (PL)					A-PL-5404491-0-0		1	H911 MTG PANEL (PL)	
			B-DD-11/05-0		7	DWG DIRECTORY (11/05 FE)					E-SC-1205346-0-0		1	288 PIN BLOCK	
										12	D-AD-5302483-0-0		1	1943 CASTING ASSY	
											A-PL-5302483-0-0		1	1943 CASTING ASSY (PL)	
											E-MD-1202885-0-0		1	1943 FRAME CASTING	

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

TITLE
 UC15-0 DRAWING DIRECTORY
 SHEET 6 OF 8
 SIZE CODE B DD
 NUMBER UC15-2
 REV 4

CUSTOMER PRINT SET		MECHANICAL					CUSTOMER PRINT SET		MECHANICAL						
UC15-0	SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO / FILE DATE	UC15-0	SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO / FILE DATE
X		13	C-AD-7009167-0-0	#	1	LOGIC ASSY DR15-C		X		19	C-IA-5408782-0-0	#	1	PRIORITY JUMPER LEVEL #7	
		14	D-AD-7009166-0-0 A-DC-7406371-0-0		1 1	WIRED ASSY DR15-C LOGIC FRAME DECALS				20	D-IA-5008781-0-0 C-AH-5408782-0-5 PC-5008781		1 1 1	ETCH BOARD ASSY/DRILLING HOLE LAYOUT PC ETCH PATTERN	
		15	D-UA-H740-D-0 A-PL-H740-D-0 B-DD-H740-0		2 1 3	POWER SUPPLY (H740-D) POWER SUPPLY (H740-D) (PL) DWG. DIRECTORY (H740-D)				21	C-UA-DR11-C-0 B-DD-DR11-C		1 3	GENERAL DEVICE INTERFACE GENERAL DEVICE INTERFACE	
		16	D-UA-H950-P-0 A-PL-H950-P-0 D-DI-H950-0-1		1 1 1	H950-P COVER PANEL H950-P COVER PANEL (PL) DWG INDEX H950				22	C-PL-7006501-12-0 C-MD-7005782-0-0 D-PS-1210568-0-0		1 1 1	BASIC CABINET ASSY 19 IN KICK PLATE SHIPPING SKID CUSHIONED	
										23	E-UA-H950-AA-0 D-DI-H950-0-1		5 1	CABINET FRAME ASSY 19 IN DWG. INDEX H950	
										41	E/D-UA-11/05-0-0 C-PL-11/05-0-0 B-DD-11/05-0		6 2 7	16 BIT COMPUTER ASSY (11/05-NC) 16 BIT COMPUTER ASSY (PL) DWG DIRECTORY (11/05-NC)	
										42	E/D-UA-11/05-0-0 C-PL-11/05-0-0 B-DD-11/05-0		6 2 7	16 BIT COMPUTER ASSY (11/05-NC) 16 BIT COMPUTER ASSY (PL) DWG DIRECTORY (11/05-NC)	
CUSTOMER PRINT SET		I = PART OF DOCUMENT INCLUDED IN PRINT SET C = INCLUDES ALL PARTS INDICATED ON DOCUMENT S = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED					TITLE		SIZE CODE		NUMBER		REV		
							UC15-0 DRAWING DIRECTORY		SHEET 7 OF 8		B CD		UC15-0 H		

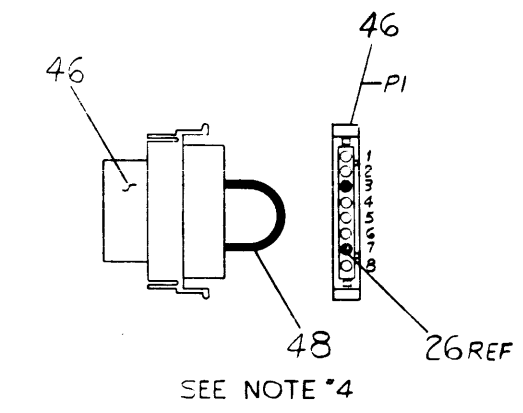
CUSTOMER PRINT SET		MECHANICAL					CUSTOMER PRINT SET		MECHANICAL					
UC15-0	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	OPTION NO / FILE DATE	UC15-0	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO / FILE DATE
									34	D-IA-7407348-1-0		1	PANEL, INLAY	
									35	E-UA-861-0-0		1	861 POWER CONTROL	
		27	A-PL-H952-C-0 D-DI-H952-0-1		1 1	H952-C FAN DWG INDEX H952								
		28	A-PL-H950-S-0 D-DI-H950-0-1		1 1	H950-S FILTER DWG INDEX H950								
		29	D-UA-H950-D-0 A-PL-H950-D-0 D-DI-H950-0-1		1 1 1	H950-D MTG PNL DOOR (RH) H950-D MTG PNL DOOR (PL) DWG INDEX H950			36	C-UA-BC05H-0-0 B-DD-BC05H-0		1 3	LINE SET 115 VAC 7 AMP DWG DIRECTORY BC05H	
		30	C-UA-H952-G-0 A-PL-H952-G-0 D-DI-H952-0-1		1 1 1	H952-G FILLER STRIP H952-G FILLER STRIP DWG INDEX H952			37	C-UA-BC05J-0-0 B-DD-BC05J-0		1 3	LINE SET 230 VAC 4 AMP DWG DIRECTORY BC05J	
		31	A-PL-H952-B-0 D-DI-H952-0-1		1 1	H952-B STABILIZER FEET DWG INDEX H952		X	38	D-UA-H950-K-0 A-PL-H950-K-0 D-DI-H950-0-1		1 1 1	H950-K SHORT DOOR H950-K SHORTDOOR (PL) DWG INDEX H950	
		32	D-IA-7407349-1-0		1	PANEL LOGO								
		33	D-UA-H950-L-0 A-PL-H950-L-0 D-DI-H950-0-1		2 1 1	H950-L FRAME PANEL H950-L FRAME PANEL (PL) DWG INDEX H950			39	D-UA-H950-F-0 A-PL-H950-F-0 D-DI-H950-0-1		1 1 1	H950-F MTG PANEL DOOR SKIN H950-F MTG PANEL DOOR SKIN (PL) DWG INDEX H950	

X = FRONT OF DOCUMENT INCLUDED IN FRONT SET
 C = INCLUDES ALL FRONTS INDICATED ON DOCUMENT
 A = CONTAINS ALL FRONTS INDICATED ON DOCUMENT

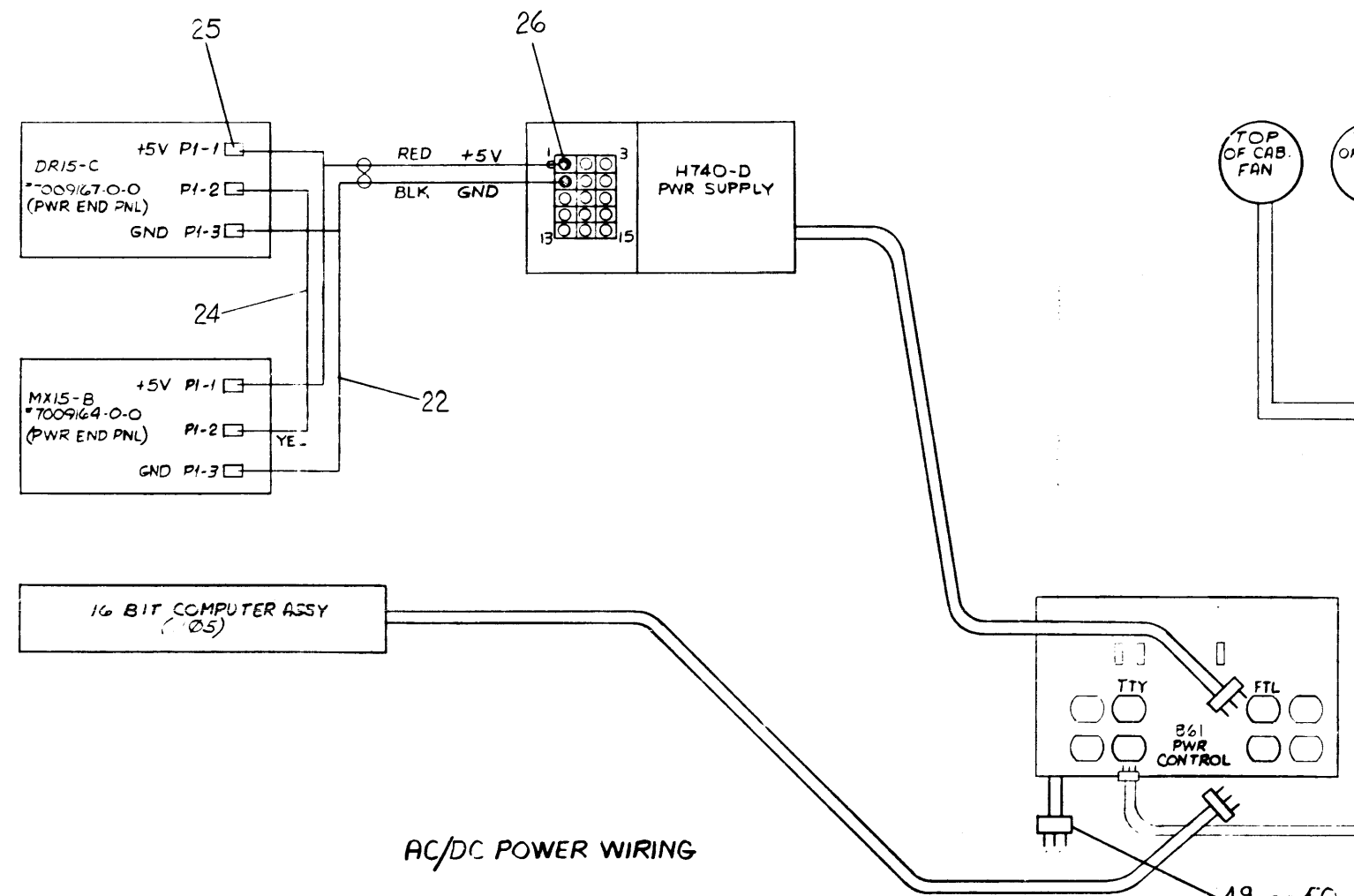
TITLE: UC15-0 DRAWING DIRECTORY
 SHEET 0 OF 0
 NUMBER: UC15-2
 REV: 14

UNIVERSITY MICROFILMS
SERIALS ACQUISITION
300 N ZEEB RD
ANN ARBOR MI 48106

WIRE TABLE						
ITEM NO	DESCRIPTION	FROM	TO	WIRE SIZE	WIRE TYPE	WIRE LENGTH
48	22	BLK	PI-3 ITEM#7	PI-7	TEM#47	2.5 IN



115 VAC JUMPER 1-3
230 VAC JUMPER 2-3



AC/DC POWER WIRING

FIRST USED ON OPTION MODEL	QTY	DESCRIPTION	PART NO	ITEM NO
PDP15				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES				
DECIMALS	ANGLES	DATE		
XXX - 009	10° 30'	11/2/72		
XX - 02		DATE		
X - 1		11/2/72		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
DATE 2/1/73				
MATERIAL				
NEXT HIGHER ASSY				
B-DD-UCIS-2				
FINISH				
SCALE				
SHEET 2 OF 2				
TITLE		PARTS LIST		
UNI CHANNEL 15 (UC15)		CORPORATION		
DUA UC15-2-0		REV		
DUA UC15-2-0		C		

DUA UC15-F-0

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			QUANTITY / VARIATION								
PARTS LIST			UC15-FA	UC15-FB	UC15-FE	UC15-FF	UC15-FH	UC15-HF	UC15-HK	UC15-HL	
MADE BY / SOUZA	CHECKED P. LEBLANC	SECTION									
DATE 10/21/72	DATE 12/14/72										
ENG R. GRAY	PROD D. SBREGA	ISSUED SECT.									
DATE 1/31/73	DATE 2/5/73										
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION									
1	C-PL-7006501-12	BASIC CAB. ASSY 19 IN	1	-	1	-	1	-	1	-	
2	E/D-UA-1105-FA-0	16 BIT COMPUTER ASSY (1105)	1	-	-	-	-	-	-	-	
3	E/D-UA-1105-FB-0	"	-	1	-	-	-	-	-	-	
4	E/D-UA-1105-FE-0	"	-	-	1	-	-	-	-	-	
5	E/D-UA-1105-FF-0	"	-	-	-	1	-	-	-	-	
6	E/D-UA-1110-NC-0	"	-	-	-	-	1	-	1	-	
7	E/D-UA-1110-ND-0	"	-	-	-	-	-	1	-	1	
8	D-UA-H740-D-0	POWER SUPPLY (H740-D)	1	1	1	1	1	1	1	1	
9	D-AD-7006803-0-0	PANEL ASSY (TERM STRIP)	1	-	1	-	1	-	1	-	
10	D-AD-7006060-0-0	XTMR MTC PANEL ASSY	-	1	-	1	-	1	-	1	
11	9006074-3	SCR PHL HD TRUSS " 10-32 x 5/8	A/R	A/RA	HA/RA	HA/RA/RA/RA/R					
12	9007651	WASHER, EXT TOOTH #10	A/R	A/RA	HA/RA	HA/RA/RA/RA/R					
13	9007786	NUT, TINNER MAN #10-32	A/RA	HA/RA	HA/RA/RA/RA/R						
14	D-UA-BC08R-10-0	I/O CABLE (BC08R)	4	4	4	4	4	4	4	4	
15	D-UA-BC08A-3-0	CABLE BC08A	2	2	2	2	2	2	2	2	
16	D-UA-EC08A-5-0	CABLE BC08A	2	2	2	2	2	2	2	2	
17	D-UA-BC11A-8F-0	CABLE ASSY (BC11-A)	1	1	1	1	1	1	1	1	
18	D-UA-BC09B-10-0	CABLE ASSY (BC09B)	1	1	1	1	1	1	1	1	
19	D-UA-H950-PB-0	COVER PANEL 5 1/2	3	3	3	3	2	2	2	2	
20	9009110	BARREL CONN (SPLICE)	2	2	2	2	2	2	2	2	
21	9107440-29	WIRE #14 AWG TWP RED/WHT	A/RA	RA/RA	RA/RA	RA/RA/RA/RA/R					
22	9107440-02	WIRE #14 AWG TWP BLK/RED	A/RA	RA/RA	RA/RA	RA/RA/RA/RA/R					
TITLE UC15 UNIT ASSY			ASSY NO. D-UA-UC15-0-0	SIZE CODE A PL	NUMBER UC15-0-0	REV D	ECO NO UC15-00001				
			SHEET 1 OF 4	DIST							

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

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			QUANTITY / VARIATION								
PARTS LIST			UC15-FA	UC15-FB	UC15-FE	UC15-FF	UC15-FH	UC15-HF	UC15-HK	UC15-HL	
MADE BY V. SOUZA	CHECKED P. LEBLANC	SECTION									
DATE 10/21/72	DATE 12/14/72										
ENG R. GRAY	PROD D. SBREGA	ISSUED SECT.									
DATE 1/31/73	DATE 2/5/73										
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION									
45	9007031	TIE WRAP	A/RA	RA/RA	RA/RA	RA/RA/RA/RA/R					
46	1209340-01	CONN HSG MATE-N-LOK (MALE)	1	1	1	1	1	1	1	1	
47	C-UA-BC01S-3-0	CABLE INTERFACE (BC01S)	1	1	1	1	1	1	1	1	
48	9107350-0	WIRE #22 IPVC BLK	A/RA	RA/RA	RA/RA	RA/RA/RA/RA/R					
49	C-AD-7009100-0-0	CABLE ASSY	1	-	1	-	1	-	1	-	
50	C-AD-7009100-0-0	CABLE ASSY	1	-	1	-	1	-	1	-	
51	C-AD-7009100-0-0	CABLE ASSY	1	-	1	-	1	-	1	-	
52	C-AD-7009100-0-0	CABLE ASSY	1	-	1	-	1	-	1	-	
53	C-AD-7009100-0-0	CABLE ASSY	1	-	1	-	1	-	1	-	
54	1211386	THICK LATCH MOLDING	14	14	14	14	12	12	12	12	
55	1205073	COVER PANEL 6-1/2	1	1	1	1	1	1	1	1	
56	C-AD-7009167-0-0	LOGIC ASSY (DR15C)	1	1	1	1	1	1	1	1	
57	C-AD-7009164-0-0	LOGIC ASSY (MX15B)	1	1	1	1	1	1	1	1	
58	A-PL-DS11-B-0	PERIPHERAL MOUNTING PANEL	-	-	-	-	1	1	1	1	
59	A-PL-M411-N-0	MEMORY AK	-	-	-	-	-	1	1	1	
60	9008007-3	SCR PHL HD TRUSS #10-32 x 1/4	-	-	-	-	2	2	2	2	
61	9006046-1	SCR PHL HD PAN #0-32 x 1 3/4	-	-	-	-	2	2	2	2	
62	C-PS-3611275-5-0	LOGO (UC15)	-	-	-	-	1	1	1	1	
63	D-IA-7407349-0-1	PANEL CONTROL (UC15)	-	-	-	-	-	1	1	1	
64	C-UD-7407312-0-0	BRACKET	2	2	2	2	2	2	2	2	
65	7403749	FILLER STRIP	1	1	1	1	1	1	1	1	
66	7403749	FILLER STRIP	1	1	1	1	1	1	1	1	
TITLE UC15 UNIT ASSY			ASSY NO. D-UA-UC15-0-0	SIZE CODE A PL	NUMBER UC15-0-0	REV D	ECO NO				
			SHEET 1 OF 4	DIST							

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

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			QUANTITY / VARIATION								
PARTS LIST			UC15-FA	UC15-FB	UC15-FE	UC15-FF	UC15-FH	UC15-HF	UC15-HK	UC15-HL	
MADE BY V. SOUZA	CHECKED P. LEBLANC	SECTION									
DATE 10/21/72	DATE 12/14/72										
ENG R. GRAY	PROD D. SBREGA	ISSUED SECT.									
DATE 1/31/73	DATE 2/5/73										
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION									
23	9007867	CABLE TIE MOUNT	A/R	A/RA	RA/RA	RA/RA/RA/RA/R					
24	9107370-44	WIPE #14 AWG IPVC YEL	A/R	A/RA	RA/RA	RA/RA/RA/RA/R					
25	9007917	SOLDERLESS CONN	12	12	12	12	12	12	12	12	
26	1209378-01	PIN, MATE-N-LOK	4	4	4	4	4	4	4	4	
27	9007928	SOLDERLESS CONN	7	7	7	7	7	7	7	7	
28	9008264	BACK MOUNT	2	2	2	2	2	2	2	2	
29	C-IA-5408782-0-0	PRIORITY JUMPER LEVEL #7	1	1	1	1	1	1	1	1	
30	C-UA-DR11-C-0	GEN. DEVICE INTERFACE	2	2	2	2	2	2	2	2	
31	D-UA-841-C-0	POWER CONTROL 841-C	1	1	1	1	1	1	1	1	
32	C-UA-BC05H-0-0	LINE SET 115VAC 7 AMP	1	-	1	-	1	-	1	-	
33	C-UA-BC05J-0-0	LINE SET 230 VAC 4 AMP	-	1	-	1	-	1	-	1	
34	D-AD-7407841-0-0	MTC PANEL 841	1	1	1	1	1	1	1	1	
35	D-IA-7407349-0-1	PANEL LOGO (PDP15)	1	1	1	1	1	1	1	1	
36	D-UA-H950-0B-0	COVER PANEL 10 1/2	2	2	2	2	2	2	2	2	
37	D-UA-H950-PA-0	MTG PANEL DOOR SKIN (H950-P)	1	1	1	1	1	1	1	1	
38	D-UA-H950-KA-0	SHORT DOOR H950-K	1	1	1	1	1	1	1	1	
39	9107673-25	POWER CORD 25FT	1	1	1	1	1	1	1	1	
40	9006568	NUT KEPS #5/16-18	1	1	1	1	1	1	1	1	
41	9008887	GROUND STRAP	1	1	1	1	1	1	1	1	
42	9006565	NUT KEPS #10-32	A/RA	RA/RA	RA/RA	RA/RA/RA/RA/R					
43	9007088	CABLE CLAMP NYLON	A/RA	RA/RA	RA/RA	RA/RA/RA/RA/R					
44	9107243	TUBING BLK 1/2 IN	A/RA	RA/RA	RA/RA	RA/RA/RA/RA/R					
TITLE UC15 UNIT ASSY			ASSY NO. D-UA-UC15-0-0	SIZE CODE A PL	NUMBER UC15-0-0	REV D	ECO NO				
			SHEET 2 OF 4	DIST							

DEC FORM DEC 16 (325)-1031-N870
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DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			QUANTITY / VARIATION								
PARTS LIST			UC15-FA	UC15-FB	UC15-FE	UC15-FF	UC15-FH	UC15-HF	UC15-HK	UC15-HL	
MADE BY FRED DOLL	CHECKED P. LEBLANC	SECTION									
DATE 3/18/75	DATE 3/18/75										
ENG FRED DOLL	PROD FRED DOLL	ISSUED SECT.									
DATE 3/18/75	DATE 3/18/75										
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION									
67	C-PL-7006501-27	BASIC CAB ASSY 19 IN.	-	1	-	1	-	1	-	1	
68	861-B	POWER CONTROL 230 VAC	-	1	-	1	-	1	-	1	
69	861-C	POWER CONTROL 115VAC	1	-	1	-	1	-	1	-	
70	BC05U-06	LINE SET 230VAC	-	1	-	1	-	1	-	1	
71	90-06899	TERMINAL BLOCK 4 TERM	1	1	1	1	1	1	1	1	
72	74-06707	PLATE, JONES STRIP	1	1	1	1	1	1	1	1	
73	90-06560	NUT KEPS #6-32	4	4	4	4	4	4	4	4	
74	90-06026-3	SCR PHL TRUSS HD #6-32 x 3/4	4	4	4	4	4	4	4	4	
75	91-07673-6	POWER CORD	1	1	1	1	1	1	1	1	
76	7008288-3F	CABLE ASSY	1	1	1	1	1	1	1	1	
TITLE UC15 UNIT ASSY			ASSY NO. D-UA-UC15-0-0	SIZE CODE A PL	NUMBER UC15-0-0	REV D	ECO NO				
			SHEET 4 OF 4	DIST							

ENGINEERING SPECIFICATION

DATE 1/22/73

TITLE UNI CHANNEL 15 ENGINEERING SPECIFICATION

REVISIONS

REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE
A	ECO CHANGE	UC15F-3	F. DOLL	4/74	F. Doll	7/29/74
B	ECO CHANGE	UC15-1	F. DOLL	4/75	F. Doll	4/11/75

ENG	RC Gray	APPD	RC Gray	SIZE	CODE	NUMBER	REV
				A	SP	UC15-0-1	B

DEC FORM NO DEC 16-(3811)-1022-N370
DRA 108

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TITLE UNI CHANNEL 15

0. Overall Description

Unichannel 15 (UC15) is a new peripheral processor for the PDP-15 utilizing the PDP-11/05 minicomputer. It provides the PDP-15 with a second general purpose processor and a second high speed I/O bus: the UNIBUS. This UNIBUS is an 18-bit pathway permitting transfer of 18-bit PDP-15 words 16-bit PDP-11 words, or two eight-bit bytes.

The UC15 makes the PDP-15 a more powerful medium scale computer:

- It reduces the cost of expanding PDP-15 systems by making selected UNIBUS controllers and options usable on the PDP-15.
- Expandability is enhanced by providing two high speed I/O busses, we allow PDP-15 configurations to be larger.
- Software supported, dual processor capability

There are three major components of the UC15:

1. A PDP-11/05 computer with 4K, 8K or 12K of PDP-11 Memory.
2. An MX15-B memory multiplexer which allows both the PDP-15 processor and the PDP-11 processor to share common memory. The shared memory is ordinary 18-bit PDP-15 core memory.
3. An "interrupt link" to provide a second means of inter-processor communications.

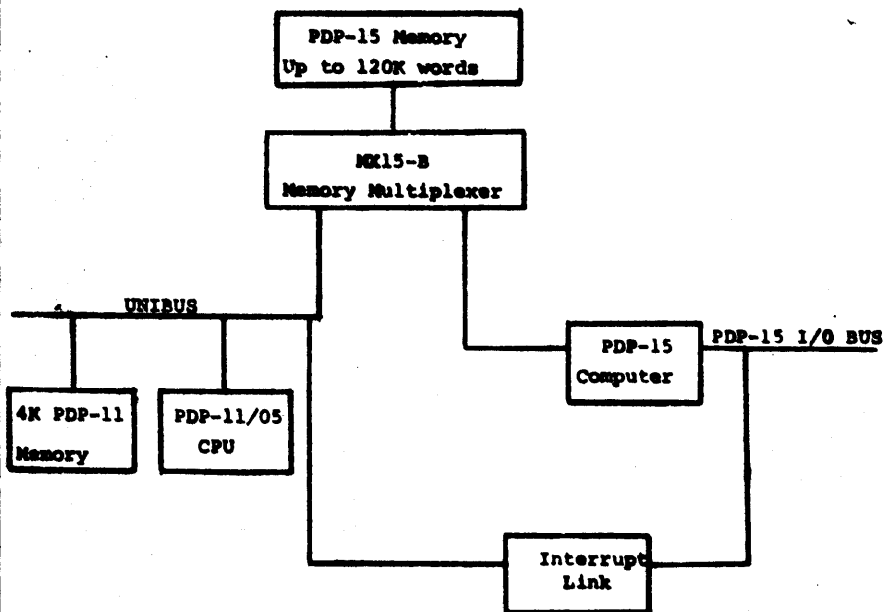
A PDP-15 with 12K or more of memory is a prerequisite for a UC15 addition.

SIZE	CODE	NUMBER	REV
A	SP	UC15-0-1	B

DEC FORM NO DEC 16-(3811)-1022-N370
DRA 108

SHEET 2 OF 25

TITLE



Components of Unichannel 15

1. General Specification

1.1 Definition of basic system.

The basic system includes a PDP11 processor, a memory bus multiplexer, an interrupt link, a cabinet, power supply, power controls and all cables needed to integrate the UC15 into a PDP15 system

It does not include a TTY.

1.2 List of included options.

SIZE	CODE	NUMBER	REV
A	SP	UC15-0-1	B

DEC FORM NO DEC 16-(3811)-1022-N370
DRA 108

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TITLE UNI CHANNEL 15

1.2.1 A UC15 consists of the following major items.

Quantity	Option #	Description
1	MX15-B	Memory Bus Multiplexer
1	DR15-C	15 I/O Bus Interface
2	DR11-C	11 Gen. Pur. Interface
1	PDP-11/05	Computer
1	UC15	Cabinet
1	841-C	Power Controller
1	H740-D	Power Supply

1.2.2 Option Numbers.

Unichannel.

UC15-FA=(4K memory, 115v 50/60Hz) PDP-11/05-FA, cabinet, MX25-B, 2 DR11-C, DR15-C.

UC15-FB=(4K memory, 230v 50/60Hz) PDP-11/05-FB, cabinet, MX15-B, 2 DR11-C, DR15-C.

UC15-FE=(8K memory, 115v 50/60Hz) PDP-11/05-FE, cabinet, MX15-B, 2 DR11-C, DR15-C.

UC15-FF=(8K memory, 230v 50/60Hz) PDP-11/05-FF, cabinet, MX15-B, 2DR11-C, DR15-C.

UC15-HE=(8K memory, 115v 50/60 Hz) PDP 11/05-NC, Cabinet, MX15-B, 2DR11-C, DR15-C, DD11-B.

UC15-HF= same except 230v and 11/05-ND

UC15-HR=(8k memory, 115v 50/60 Hz) PDP 11/05-NC, MM11K, cabinet MX15-B, 2D11-C, DR15-C, DD11-B

UC15-HL= same except 230v and 11/05-ND

1.3 Mechanical Packaging

MX15-B occupies a standard rack panel of M Series logic. DR15-C occupies a standard rack panel of M Series logic. UC15 cabinet bolts to left of PDP-15 processor cab in normal configurations. Options are mounted in cabinet as shown in Figure 1.1.

SIZE	CODE	NUMBER	REV
A	SP	UC15-0-1	B

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TITLE UNI CHANNEL 15

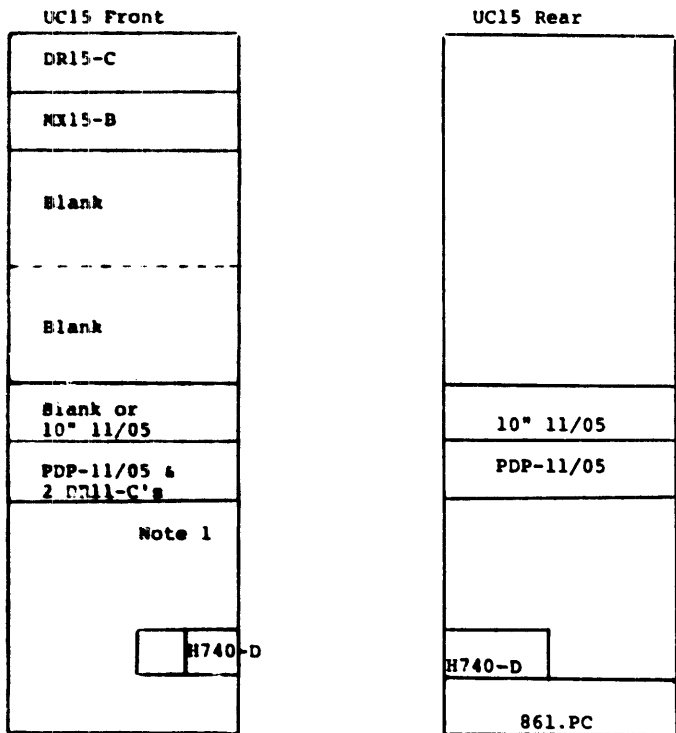


Figure 1.1

Note 1: This space may be used to mount a Ball expander box. If an RK15 has previously been mounted in the space, the fan assembly, mounting frame, and RK11-E must be removed and the RK11-E remounted inside the Ball box. See Note 4 on drawing D-UA-RK15-F Sheet 2 of 2.

SIZE	CODE	NUMBER	REV
A	SP	UC15-#-1	B

TITLE UNI CHANNEL 15

1.3.1 Cable Specifications

BCØ8R - 1Ø	DR11-C #1 CONN2	DR15-C B 18
BCØ8R - 1Ø	DR11-C #1 CONN1	DR15-C B 17
BCØ8R - 1Ø	DR11-C #Ø CONN2	DR15-C A 18
BCØ8R - 1Ø	DR11-C #Ø CONN1	DR15-C A 17
BC11A - 8F	PDP11/05 A7/B7	MX15-B A01B01

SIZE	CODE	NUMBER	REV
A	SP	UC15-Ø-1	B

TITLE UNI CHANNEL 15

General Description

The UC15 configuration Specifications are designed to be an aid in installing the memory data line (MDL), I/O bus and UNIBUS cables. Under no circumstances should any section of MDL exceed 25 feet.

1.3.1.1 MDL Configurations

This section gives a breakdown of the various MDL cable configurations. The cables are listed in the order in which they must be run in the system. All cables are BCØ8A's unless otherwise noted. H8519 #1 connector block is the block insert for the first 48K, H8519, #2 is the block used for the second 48K.

15 MDL Cables from KP to MX15B

15 without KM/KT15 or FP15

From Device	From LOC	To Device	To LOC	Cable Length
KP15	JO2	MX15B	A17	3'
KP15	JO3	MX15B	B17	3'

15 with KM/KT 15

KP15	JO2	BB15	BO2	5'
KP15	JO3	BB15	BO3	5'
BB15	A02	MX15B	A17	5'
BB15	A03	MX15B	B17	5'

15 with FP15

KP15	JO2	FP15	H29	5'
KP15	JO3	FP15	H30	5'

SIZE	CODE	NUMBER	REV
A	SP	UC15-Ø-1	B

TITLE UNI CHANNEL 15

FP15	J29	MX15B	A17	6'
FP15	J30	MX15B	B17	6'

15 with KM/KT15 and FP15

KP15	JO2	FP15	H29	6'
KP15	JO3	FP15	H30	6'
FP15	J29	BB15	B02	3'
FP15	J30	BB15	B03	3'
BB15	A02	MX15B	A17	6'
BB15	A03	MX15B	B17	6'

1.3.1.2 MDL Cables from MX15B to Memory

Up to 32K MM15

MX15B	A08	MM15A	B02	3'
MX15B	B08	MM15A	B03	3'
MM15A	A02	MM15B	A02	3'
MM15A	A03	MM15B	A03	3'

MM15B	B02	MM15C	A02	5 1/2" (7006907-CF)
MM15B	B03	MM15C	A03	5 1/2" (7006907-CF)

One MX15 A up to 56K MM15

MX15B	A08	MX15A#1	-	6'
MX15B	B08	MX15A#1	-	6'

SIZE	CODE	NUMBER	REV
A	SP	UC15-Ø-1	B

TITLE UNI CHANNEL 15

The MDL cables continue to any memory not accessed through the MX15A

MX15A		MM15A		7'
MX15A		MM15A		8'

Two MX15A up to 80K MM15

FROM		TO		Cable Length
Device	Loc	Device	Loc	
MX15B	A08	MX15A#1	-	6'
MX15B	B08	MX15A#1	-	6'
MX15A#1		MX15A#2		5 1/2" (7006907-CP)
MX15A		MM15A		7'
MX15A		MM15B		8'

Up to 48K ME15

MX15B	A08	H8519	TOP	5'
MX15B	B08	H8519	BOT	5'

48 to 96K ME15

MX15B	A09	H8519	TOP	5'
MX15B	B09	H8519	BOT	5'
H8519#1	TOP	H8519#2	TOP	3'
H8519#2	BOT	H8519#2	BOT	3'

Up to 48K ME15 with one MM15

MX15B	A08	MM15A	B02	3'
MX15B	B08	MM15A	B03	3'
MM15A	A02	H8519#1	TOP	4'
MM15A	A03	H8519#1	BOT	4'

SIZE	CODE	NUMBER	REV
A	SP	UC15-0-1	B

TITLE UNI CHANNEL

48 to 96K ME15 with one MM15.

FROM		TO		Cable Length
Device	Loc	Device	Loc	
MX15B	A08	MM15A	B02	3'
MX15B	B08	MM15A	B03	3'
MM15A	A02	H8519#1	TOP	4'
MM15A	A03	H8519#1	BOT	4'
H8519#1	TOP	H8519#2	TOP	3'
H8519#2	BOT	H8519#2	BOT	3'

Up to 48K ME15 with two MM15's

MX15B	A08	MM15A	B02	3'
MX15B	B08	MM15A	B03	3'
MM15A	B02	MM15B	A02	3'
MM15A	A03	MM15B	A03	3'
MM15B	B02	H8519	TOP	3'
MM15B	B03	H8519	BOT	3'

48 to 96K ME15 with two MM15's

MX15B	A08	H8519	TOP	5'
MX15B	B08	H8519	BOT	5'
H8519	TOP	MM15A	B02	6'
H8519	BOT	MM15A	B03	6'
MM15A	A02	MM15B	A02	3'
MM15A	A03	MM15B	A03	3'
MM15B	B02	H8519	TOP	3'
MM15B	B03	H8519	BOT	3'

SIZE	CODE	NUMBER	REV
A	SP	UC15-0-1	B

TITLE UNI CHANNEL 15

Up to 48K ME15 with three MM15's

FROM		TO		Cable Length
Device	Loc	Device	Loc	
MX15B	A08	H8519	TOP	5'
MX15B	B08	H8519	BOT	5'
H8519	TOP	MM15A	B02	6'
H8519	BOT	MM15A	B03	6'
MM15A	A02	MM15B	A02	3'
MM15A	A03	MM15B	A03	3'
MM15B	B02	MM15C	A02	5 1/2" (7006907-CP)
MM15B	B03	MM15C	A03	5 1/2" (7006907-CP)

All other configurations.

Other configurations are so varied that it is impossible to break them down into a list such as the preceding sections. There are some guidelines which should be followed when configuring the system. Cable length should be kept to a minimum. In no case should any section of MDL cable exceed 25 feet.

1.3.1.3

I/O Bus Configuration

Input Bus

FROM		TO		Length	TYPE
Device	Loc	Device	Loc		
KP15	MD 2,3	DR15C	AB1,2	5'	BC09B
AB15	CD 4,5	DR15C	AB1,2	7'	"
BA15	AB 4,5	DR15C	AB1,2	8'	"
DM15	AB 4,5	DR15C	AB1,2	8'	"

SIZE	CODE	NUMBER	REV
A	SP	UC15-0-1	B

TITLE UNI CHANNEL 15

Output Bus

The Output I/O bus (BC09B) connects from DR15C slot AB 3,4 to:

First Option Cabinet	One Extended Memory Cabinet	Two Extended Memory Cabinets	No BA15 Cabinet
Left of UC15 (RP15, RF15)	6'	8'	10'
Right of UC15 (RC15, LP15, VT15)	10'	-	5'

1.3.1.4 UNIBUS Restrictions

Standard UNIBUS rules must be followed concerning its length and loading. When installing additional cabinets which contain PDP11 peripherals, the cabinet normally connects to the left side of the far left cabinet. This prevents extending the PDP15 I/O Bus beyond the 80 ft. limit. Parity is not allowed as "PA" and "PB" are used as the upper two data bits.

1.4 Environmental and Power Requirements

DR15-C/MX15-B	
Temperature	50°F to 122°F
Humidity	20% to 90%

Power	
MX15-B	7 amps @ 5 volts
DR15-C	2 amps @ 5 volts

UC15 Bay

Power	
7 amps @ 115v	
3 .5 amps @ 230 v	
Weight	250 lbs.

SIZE	CODE	NUMBER	REV
A	SP	UC15-0-1	F

TITLE UNI CHANNEL 15

Note both power and weight increase as options replace blank areas in the UC15 cabinet.

1.5 Bus Loading

MX15-B

15 Input load = 2 unit loads

Unibus input load = 1 unit load

Output = 2 unit loads

SIZE	CODE	NUMBER	REV
A	SP	UC15-0-1	B

TITLE UNI CHANNEL 15

2.0 Vendor supplied equipment

None

SIZE	CODE	NUMBER	REV
A	SP	UC15-0-1	B

TITLE UNI CHANNEL 15

3.1.1 MX15-B Specifications

A. Output - PDP-15 Memory Bus.

Will connect to MM15, MX15-A, and ME15 memories.

B. Inputs

PDP-11: modified UNIBUS with PA and PB used as D16 and D17 respectively. It meets all other UNIBUS specs. Defined as UNIBUS/18, input would have a lower address bound that could be fixed to any 4K multiple address 0-128K. This would be specified by jumpers. Note only 4 or 8K of local memory will be supported by diagnostics and systems programs. Hence, the maximum commonly addressable memory (11 processor) will be 24 or 20K. An upper limit would be provided as 124K.

The addresses presented from the PDP-11 are relocated to prevent location 0 being the same physical address on each machine. The PDP-11 will be able to be relocated by 4K increments to 124K. Local PDP-11 memory is restricted to 4K increments. Note that the PDP-11/05 has "local" memory.

Note that any "write" operation to a common memory location by 8 bit or 16 bit UNIBUS devices causes PDP-15 data bits 0 and 1 of the location to be forced 0.

PDP-15: standard 15 memory bus interface - no upper and lower bounds. No relocation. Emphasis will be on minimum delay through multiplexer for this port.

When the PDP-15 issues DCH SYNC (during Data Channel interrupts) it will have top priority (uninterrupted memory use). The PDP-15 must not issue DCH SYNC for a period longer than the PDP-11/05 "time-out". If this occurs, the PDP-11/05 will "time-out" and may "hang" the system in the process. Hence, this type of "time-out", not due to non-existent memory, must not occur. In some cases, the "time-out" delay will have to be lengthened. If both processors request at the same time, PDP-15 will get use of the memory. When requests are not simultaneous, a first-come, first-served mode operates. Practically, this all means

SIZE	CODE	NUMBER	REV
A	SP	UC15-0-1	B

TITLE UNI CHANNEL 15

that the 15 and 11 will alternate accesses to common memory except under the special conditions described above. Note no local memory is allowed on the PDP-15.

3.1.2 DR15-C Specifications

This section describes the IOT's of the DR15-C and the registers of the two DR11-C's.

3.1.2.1 Register Descriptions (PDP-11)

(CSR) 767770 Bit 6 - when bit 6 is a 1, it will enable an interrupt on BR5 to TV 300, if the API DONE flag is set in bit 7 of 767770.

Bit 7 - API DONE - set to 1 whenever none of the 4 API channels has a request pending.

NOTE: Neither of these bits is expected to be used in normal systems programming.

(ODB) 767772 Low byte - contains the API address for an API level 0 break. Loading a new value in this byte causes the appropriate API* flag to be set in the DR15-C and an API break in the PDP-15 will occur, if the API is enabled and no higher activity is occurring. It also will cause a PI interrupt if API is not installed.

High byte - contains the API address for an API level 1 break. Same conditions as low byte.

(IDB) 767774 Bit 0 - contains bit "2" of the Task Control Block Pointer (TCBP). See note under bit 1.

Bit 1 - contains bit "1" of the TCBP.

NOTE: That reading 767774 does not effect the New TCBP flag in bit 7 of 767760.

SIZE	CODE	NUMBER	REV
A	SP	UC15-0-1	B

TITLE UNI CHANNEL 15

Bit 6 - API 2 DONE flag - when a 1 indicates that there is no API level 2 request pending before the PDP-15. When a 1 also indicates the 767762 low byte may be loaded with a new API level 2 address to cause a new API interrupt level 2 and set the API 2 flag in the DR15-C.

Bit 7 - API 0 DONE flag - when a 1 indicates that there is no API level 0 request pending before the PDP-15. When a 1 also indicates that 767772, low byte may be loaded with a new API level 0 address to cause a new API interrupt at level 0 and set the API 0 flag in the DR15-C.

Bit 8 - Local Memory Size bit 0 - the least significant bit of a two bit field which specifies the number of 4K word memory banks are connected to the UNIBUS.

Bit 9 - Local Memory Size bit 1 - the most significant bit of a two bit field which specifies that number of 4K memory banks are connected to the UNIBUS.

LMS1	LMS0	
0	0	0 Local Memory
0	1	4K Local Memory
1	0	8K Local Memory
1	1	12K Local Memory

Bit 14 - API 3 DONE flag - when a 1 indicates that there is no API level 3 request pending before the PDP-15. When a 1 also indicates that 767762 high byte may be loaded with a new API level 3 address to cause a new API interrupt at level 3 and set the API 3 flag in the DR15-C.

Bit 15 - API 1 DONE flag - when a 1 indicates that there is no API level request pending before the PDP-15. When a 1 also indicates that 767772 high byte may be loaded with a new API level 1 address to cause a new API interrupt at level 1 and set the API 1 flag in the DR15-C.

SIZE	CODE	NUMBER	REV
A	SP	UC15-0-1	B

TITLE UNI CHANNEL 15

Bit 6 - API 2 DONE flag - when a 1 indicates that there is no API level 2 request pending before the PDP-15. When a 1 also indicates that 767762 low byte may be loaded with a new API level 2 address to cause a new API interrupt at level 2 and set the API 2 flag in the DR15-C.

Bit 7 - API 0 DONE flag - when a 1 indicates that there is no API level 0 request pending before the PDP-15. When a 1 also indicates that 767772, low byte may be loaded with a new API level 0 address to cause a new API interrupt at level 0 and set the API 0 flag in the DR15-C.

Bit 14 - API 3 DONE flag - when a 1 indicates that there is no API level 3 request pending before the PDP-15. When a 1 also indicates that 767762 high byte may be loaded with a new API level 3 address to cause a new API interrupt at level 3 and set the API 3 flag in the DR15-C.

Bit 15 - API 1 DONE flag - when a 1 indicates that there is no API level request pending before the PDP-15. When a 1 also indicates that 767772 high byte may be loaded with a new API level 1 address to cause a new API interrupt at level 1 and set the API 1 flag in the DR15-C.

SIZE	CODE	NUMBER	REV
A	SP	UC15-0-1	B

TITLE UNI CHANNEL 15

(CSR) 767760 Bit 6 - ENABLE TCBP (Task Control Block Pointer) INTERRUPT - when a 1 allows an interrupt on BR level 7 to TV 310 upon receipt of a new TCBP from the PDP-15.

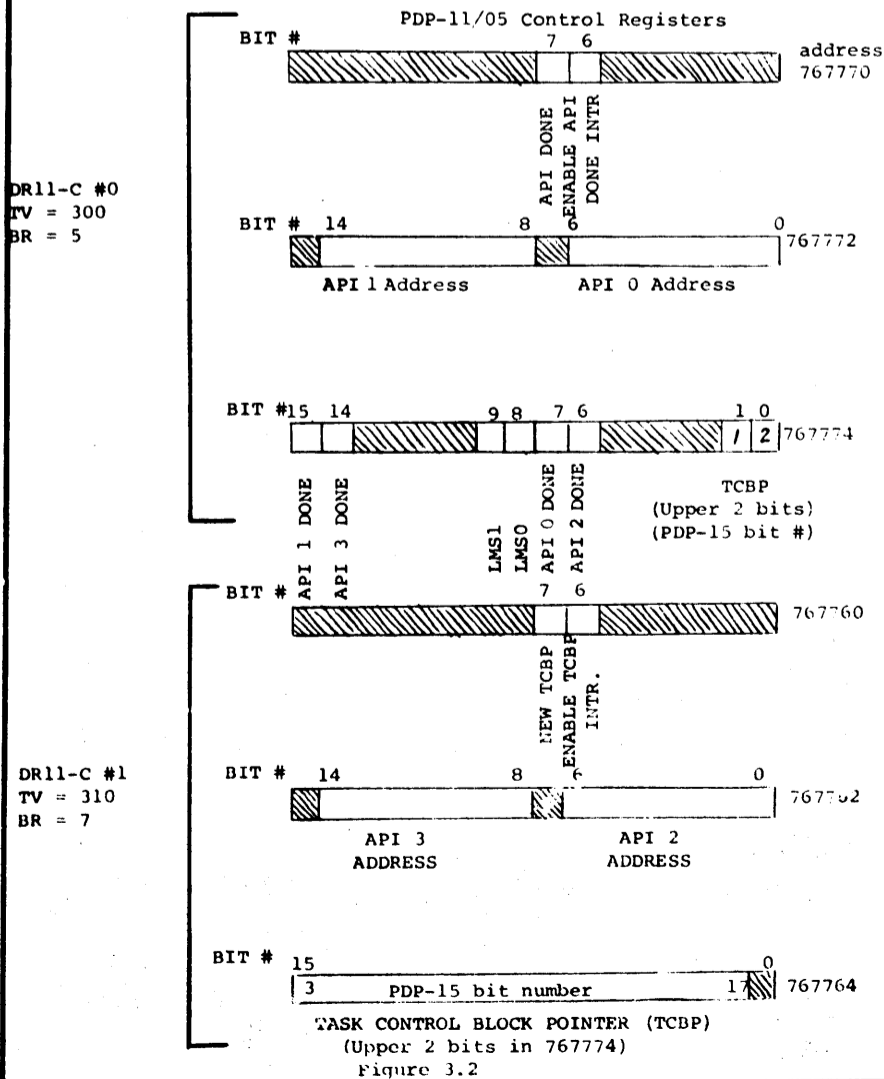
Bit 7 - NEW TCBP flag - is set to a 1 whenever the PDP-15 issues IOT 706006 thus placing a new TCBP in 767764 and bits 0 and 1 of 767774. It is cleared by the PDP-11 doing a DATI to location 767764.

(ODS) 767762 Low byte - contains the API address for an API level 2 break. Same conditions as 767772 low byte.

High byte - contains the API address for an API level 3 break. Same conditions as 767772.

SIZE	CODE	NUMBER	REV
A	SP	UC15-0-1	B

TITLE UNI CHANNEL 15



SIZE	CODE	NUMBER	REV
A	SP	UC15-0-1	B

TITLE UNI CHANNEL 15

(IDB) 767764 TCBP (Task Control Block Pointer) - bits 3-17. This contains the lowest 15 bits of the address sent by the PDP-15. Note that address is "word" aligned. Note also that doing a DATI to this register lowers the New TCBP flag (767760 bit 7) and also sets the Done flag cleared by IOT 706002 in the PDP-15.

3.1.2.2 PDP-15 IOT'S

- 706001 SIOA - Skip I/O data Accepted. Tests whether the TCBP Done flag is set indicating the PDP-11 has read the TCBP and skips the next location if the done flag is a 1.
- 706002 CIOD - Clear I/O Done. Clears the TCBP done flag.
- 706006 LIOR - Load I/O Register and clear TCBP done flag. Places the contents of the PDP-15 "AC" into an 18 bit buffer register. The output of the buffer register is seen by the PDP-11 as TCBP at location 767764 and bits 0 and 1 767774. This IOT also causes the TCBP done flag to be cleared and in the PDP-11 causes bit 7 to be set in location 767760 which in turn causes the PDP-11 to do an Interrupt at BR 7 to TV location 310.
- 706112 RDRS - Read Status register. Clears the AC and loads the contents of the DR15-C status register into the AC. (This effectively moves the DR15-C enable interrupt bit into bit 17 of the AC.)
- 706122 LDRS - Load Status register. Loads the contents of the AC into the DR15-C status register. (Places value of AC bit 17 in the DR15-C "enable interrupts" bit.)
- 706104 CAPI0 - Clear API0 flag in DR15-C.
- 706124 CAPI1 - Clear API1 flag in DR15-C.
- 706144 CAPI2 - Clear API2 flag in DR15-C.

SIZE	CODE	NUMBER	REV
A	SP	UC15-0-1	B

TITLE UNI CHANNEL 15

- 706164 CAPI3 - Clear API3 flag in DR15-C.
- 706101 SAPI0 - Test the API0 flag in the DR15-C and skips the next instruction of the flag is 1.
- 706121 SAPI1 - Tests the API1 flag in the DR15-C and skips the next instruction if the flag is 1.
- 706141 SAPI2 - Tests the API2 flag in the DR15-C and skips the next instruction if the flag is 1.
- 706161 SAPI3 - Tests the API3 flag in the DR15-C and skips the next instruction if the flag is 1.

15 Status Register DR15-C

Bit 17 - enable PI/API interrupts. When a 1 enables interrupts, when 0 disables interrupts from the PDP-11 processor. Note this bit is set to a 1 by Initialize and the CAF instruction. It can only be cleared by using the LDRS (IOT 706122) instruction.

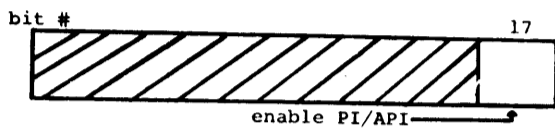


Figure 3.1

3.1.2.4 Hardware Configuration

Figure 3.2 shows the accessible registers in the PDP-11. Note that there are two DR11-C options attached to the PDP-11. One is used for API levels 0 and 1, the second for API levels 2 and 3. The cables from the DR11-C's will go to a DR15-C to cause the API interrupts in the 15 and to receive the TCBP from the 15.

3.2 Special Maintenance Instructions

See section 3.1.2.1, address 767770, bits 6 and 7.

3.3 Data Formats

SIZE	CODE	NUMBER	REV
A	SP	UC15-0-1	B

TITLE UNI CHANNEL 15

None, other than described in section 3.1.2.4

3.4 CAF/RESET Limitations

The following timing considerations are of interest to programmers.

A RESET instruction may cause the PDP-15 to incorrectly read the API address. The Console RESET and CAF instruction may violate UNIBUS specifications. Hence, random "initialize" pulses may cause system malfunctions. The following guidelines must always be followed:

1. CAF must not be executed while there is a Task Control Block Pointer (TCBP) waiting to be read by the PDP-11/05.
2. RESET must not be executed while there are API requests pending for the PDP-15.
3. RESET must not be executed if there is any NPR activity on the UNIBUS. All active NPR devices must be shut down in a power fail sequence prior to executing RESET.

Following Power Up, the PDP-11/05 processor must wait a minimum of 1 second before attempting to access common PDP15 memory.

3.5 Operator Controls

None on DR15-C, MX15-B, or DR11-C.

SIZE	CODE	NUMBER	REV
A	SP	UC15-0-1	B

TITLE UNI CHANNEL 15

3.6.0 Programming Specifications

The DEC CHANNEL 15 specifications are designed to establish the PDP-15 as the "master" processor and the PDP-11 as the slave. It is assumed that tasks to be run on the PDP-11 are "set up" and "requested" by the PDP-15.

Briefly, the communication between the PDP-15 and the PDP-11 would be as follows.

First, set up Task Control Block in common memory with PDP-15. Information for a disk transfer would be: disk sector desired, starting memory address, API level and address to signal completion and device code specifying disk, etc. The address of the first word in the TCB would be put in the AC and moved to the 11 with IOT LIOR (706006) and becomes the TCBP.

The PDP-11 would be interrupted, read the TCBP, use it to obtain the Task priority from the TCB and queue the task in the proper queue and return to the routine that was interrupted.

Eventually the PDP-11 will execute the task, in this case, the disk transfer would be complete, and the PDP-11 will use the TCB to obtain an API address and level and interrupt the PDP-15 at that address and level.

Note that up to 4 such interrupts may be requested without the PDP-15 having to respond. Note also that since each API level request sets a separate flag, 4 "skip flags" are available for systems without API.

SIZE	CODE	NUMBER	REV
A	SP	UC15-0-1	B

ENGINEERING SPECIFICATION

CONTINUATION SHEET

TITLE UNI CHANNEL 15

4. Interface specifications

All interfaces are standard to the Particular options of which they are a part.

SIZE	CODE	NUMBER	REV
A	SP	UC15-0-1	B

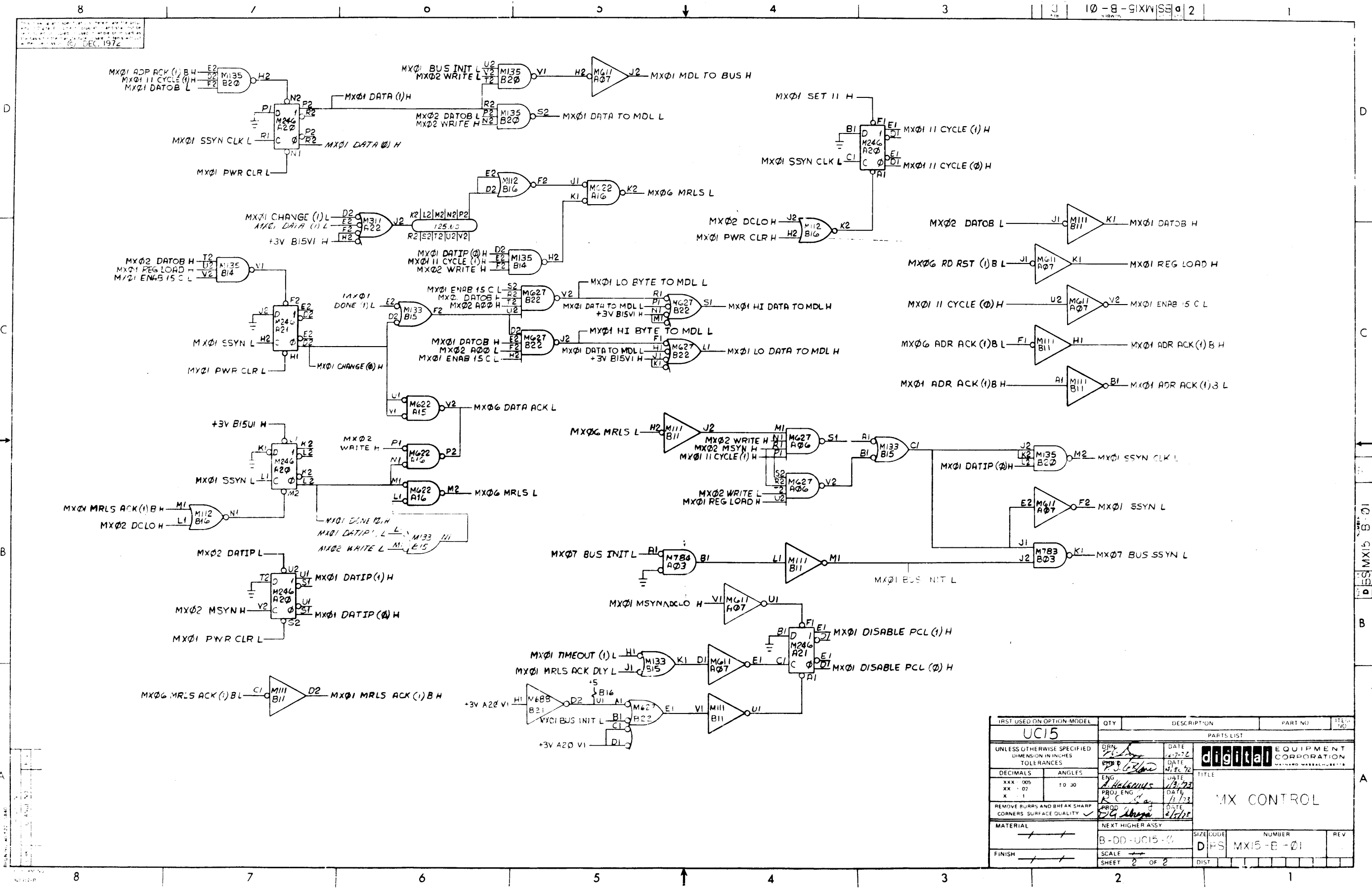
DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS							
						DATE 1/25/73	
TITLE UC15 CUSTOMER ACCEPTANCE PROCEDURE							
REVISIONS							
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE	
A	ECO CHANGE	UC15F-3	F. DOLL	4/74			
1.0 SCOPE							
1.1 The following steps will be followed to accept and insure that all necessary paper work, diagnostics, etc., are included with the UC15.							
2.0 HARDWARE AND SOFTWARE							
2.1 Refer to Appendix I and II for a complete list of the necessary hardware and software.							
3.0 TEST SOFTWARE							
3.1 ABSL-11 Loader.							
3.2 UC15 Diagnostics.							
3.3 PDP-15 System Exercisor with UC15 Module.							
3.4 DEC X-11 Exercisor with UC15 Module.							
3.5 The following procedure will be followed step by step to insure the quality of the option.							
3.5.1 Visually inspect for loose bolts, power plugs, modules, punched cables or bent pins.							
3.5.2 Insure that all modules and cables are in their proper slots and well inserted.							
3.5.3 Insure that all fans in the cabinet operate.							
3.5.4 Load the UC15 diagnostic. Start the test and allow it to make five passes, error free, in sequential mode. Set PDP-15 AC switch to a one for random test operation. Run the test for two passes.							
3.5.5 When all devices have been checked, load and run system exercisor with all options that are on the system for at least fifteen minutes.							
ENG	APPD	SIZE	CODE	NUMBER	REV		
<i>R.C. Gray</i>	<i>R.C. Gray</i>	A	SP	UC15-0-4	A		
DEC FORM NO DRA 107A				SHEET 1 OF 4			

ENGINEERING SPECIFICATION				CONTINUATION SHEET			
TITLE UC15 CUSTOMER ACCEPTANCE PROCEDURE							
3.5.6 At the completion of these steps, the acceptance of the UC15 will be complete.							
<u>NOTE:</u> All PDP-11 diagnostic are loaded with the ABS-11 loader. For a printout, disconnect the 15 console TTY and connect it to the 11/05. Connect the dummy TTY plug to the 15 console TTY cable to prevent constant interrupts from occurring on the PDP-15. Without the TTY plug installed, the hardware read in will not work on the 15.							
				SHEET 2 OF 4			
ENG	APPD	SIZE	CODE	NUMBER	REV		
		A	SP	UC15-0-4	A		
DEC FORM NO DRA 108				SHEET 2 OF 4			

ENGINEERING SPECIFICATION				CONTINUATION SHEET			
TITLE UC15 CUSTOMER ACCEPTANCE PROCEDURE							
<u>APPENDIX I</u> Hardware Checklist for UC15							
One 11/05 with UC15 Logo (7410674-0-0).							
One MX15B.							
One DR15C.							
One UC15 cabinet with a ground strap mounted.							
Two DR11C's with priority jumper, level #7 (5408782) on DR11 #1 and priority jumper level #5 (5408778) on DR11 #0.							
One level #5 (5408778) priority jumper for DR11C test.							
One 841-B power control.							
One H740-D power supply.							
One panel assembly 7006803 (7006060 for 240V).							
One AC remote power control cable.							
One dummy TTY plug.							
One BC01S-03 TTY extention cable.							
Four BC08R-10 DR11 cables.							
Two BC08R-1 DR11C test cables.							
One 7008360 Berg to TTY cable assembly.							
One BC11A-8F Unibus cable.							
MDI cables as specified in UC15 configuration specification.							
I/O bus as specified in UC15 configuration specification.							
One H950-P cover panel.							
Two H950-Q if no options are above 11/05.							
One H950-KA "pop off" short door.							
One rear door.							
One box 5A fuses.							
One box 7A fuses.							
				SHEET 3 OF 4			
ENG	APPD	SIZE	CODE	NUMBER	REV		
		A	SP	UC15-0-4	A		
DEC FORM NO DRA 108				SHEET 3 OF 4			

ENGINEERING SPECIFICATION				CONTINUATION SHEET			
TITLE UC15 CUSTOMER ACCEPTANCE PROCEDURE							
<u>APPENDIX II</u> Software Check List for UC15							
LIBKIT-UC15A-A-K or LIBKIT-UC15R-A-K.							
LIBKIT-11-DR11C-01.							
LIBKIT 11/05 BASES-A-K.							
PDP-11/05 print set.							
PDP-11/05 Maintenance Manual DEC-11-H05AA-A-D.							
H740 print set.							
DR11C Customer print set.							
DR11C General Device Interface Manual DEC-11-HDRCA-A-D.							
UC15 Customer print set.							
UC15 Maintenance Manual, DEC-15-HUCMA-A.							
Keysheet with ECO status contained.							
Customer Acceptance Form.							
Installation Report.							
				SHEET 4 OF 4			
ENG	APPD	SIZE	CODE	NUMBER	REV		
		A	SP	UC15-0-4	A		
DEC FORM NO DRA 108				SHEET 4 OF 4			

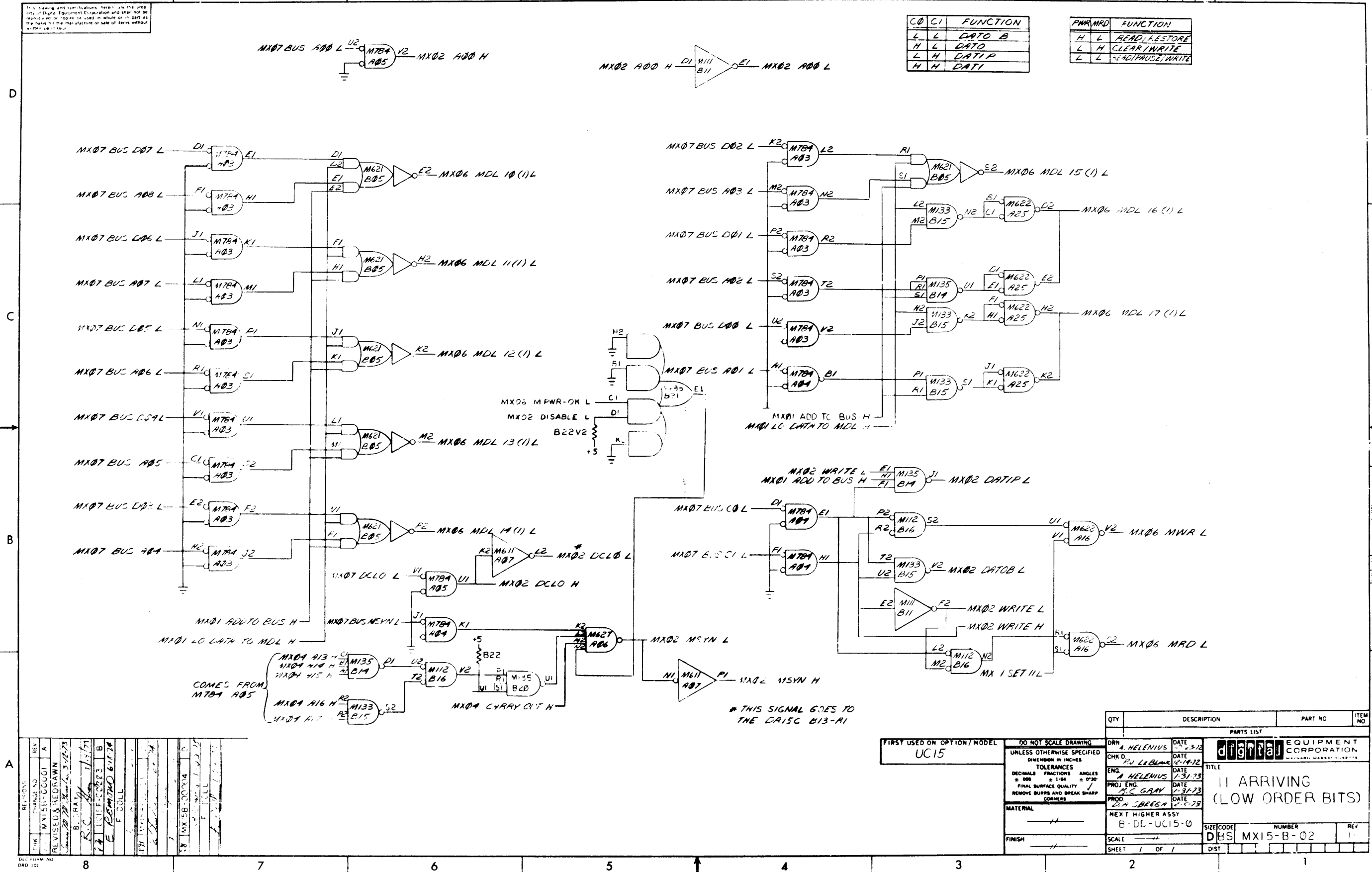
DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			LEGEND		QUANTITY / VARIATION					
ACCESSORY LIST			D	DOCUMENT	KIT CHECK	BY	DATE	INSTALLATION CHECK	BY	DATE
MADE BY V. SOUZA	CHECKED <i>J. E. Blund</i>	SECTION	DN	DOCUMENT CHANGE NOTICE						
DATE 1/19/73	DATE 1-20-73	1	PA	PAPER TAPE ASCII						
ENG DATE <i>A. HELENILIS</i>	PROD <i>D. Souza</i>	ISSUED SECT.	PB	PAPER TAPE BINARY						
	DATE 2/5/73	1	PM	PAPER TAPE READ-IN-MODE						
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION								
1	D-UA-UC15-0-0	DUMMY TTY PLUG	1							
2	C-UA-BC015-03-0	TTY EXTENTION CABLE	1							
3	D-IA-7008360-0-0	BERG TO TTY CABLE ASSY	1							
4	D-UA-BC08R-01-0	BERG TO BERG CABLE ASSY	2							
5	C-IA-5408778-0-0	LEVEL 5 PRIORITY JUMPER PLUG	1							
6	DEC-11-H05AA-A-D	PDP 11/05 MAINTENANCE MANUAL	1							
7	DEC-11-HDRCA-A-D	DR11-C MAINTENANCE MANUAL	1							
8	DEC-11-HUCMA-A	UC15 MAINTENANCE MANUAL	1							
9	B-DD-11/05-0	PDP 11/05 CUSTOMER PRINT SET	1							
10	B-DD-DR11-C	DR11-C CUSTOMER PRINT SET	1							
11	B-DD-UC15-0	UC15-F CUSTOMER PRINT SET	1							
12	B-DD-H740-D	H740 CUSTOMER PRINT SET	1							
13	D-UA-841-C-0	841-C CUSTOMER PRINT SET	1							
14	9007221	FUSE 5 AMP GLASS	5							
15	9007224	FUSE 7 AMP GLASS	5							
16	9107673-6	CORD 14/3 WIRE (BLACK)	1							
TITLE ACCESSORY LIST UC15-0			ASSY. NO. D-UA-UC15-0-0	SIZE CODE A AL	NUMBER UC15-0-5			REV. A	ECO NO UC15F-00003	
SHEET 1 OF 1			DIST.							



FIRST USED ON OPTION MODEL	QTY	DESCRIPTION	PART NO	REV
UC15				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN P.S.	DATE 12-72 12-72	digital EQUIPMENT CORPORATION <small>MEMPHIS, TENNESSEE</small>	
DECIMALS .xxx - .005 .xx - .02 .x - .1	ANGLES ± 30	DATE 1/3/73 1/3/73 2/5/73		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY			MX CONTROL	
MATERIAL	NEXT HIGHER ASSY	SIZE CODE	NUMBER	REV
FINISH	B-DD-UC15-0	DIPS	MX15-E-01	
	SCALE			
	SHEET 2 OF 2	DIST		

C0	C1	FUNCTION
L	L	DATO B
H	L	DATO
L	H	DATIP
H	H	DATI

PWR	MRD	FUNCTION
H	L	HEAD/RESTORE
L	H	CLEAR/WRITE
L	L	END/PAUSE/WRITE



REV	NO	DATE	BY	CHK
1	1	1/17/71	R.C.	
2	1	1/17/71	R.C.	
3	1	1/17/71	R.C.	
4	1	1/17/71	R.C.	
5	1	1/17/71	R.C.	
6	1	1/17/71	R.C.	
7	1	1/17/71	R.C.	
8	1	1/17/71	R.C.	

FIRST USED ON OPTION/MODEL
UC15

DO NOT SCALE DRAWING
UNLESS OTHERWISE SPECIFIED
DIMENSION IN INCHES
TOLERANCES
DECIMALS FRACTIONS ANGLES
± .008 ± .004 ± .030
FINAL SURFACE QUALITY 1
REMOVE BLURS AND BREAK SHARP CORNERS
MATERIAL
FINISH

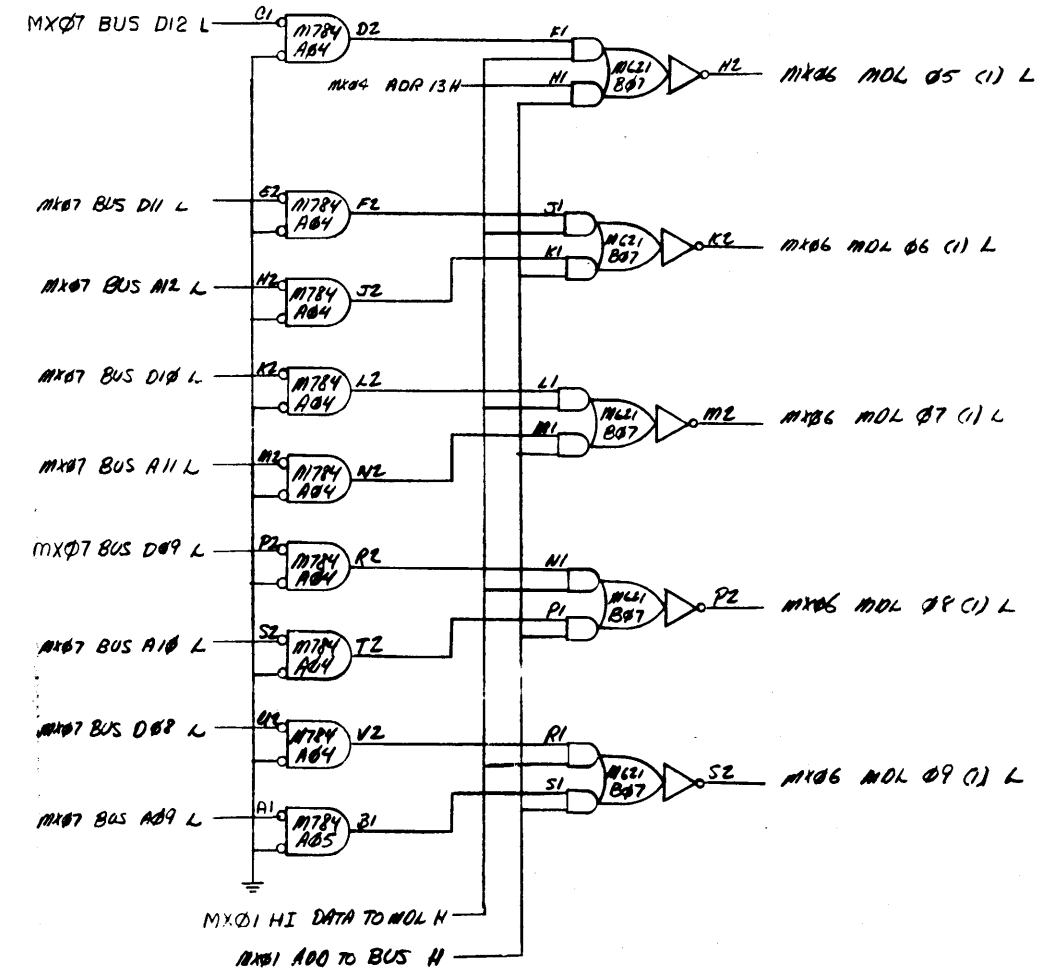
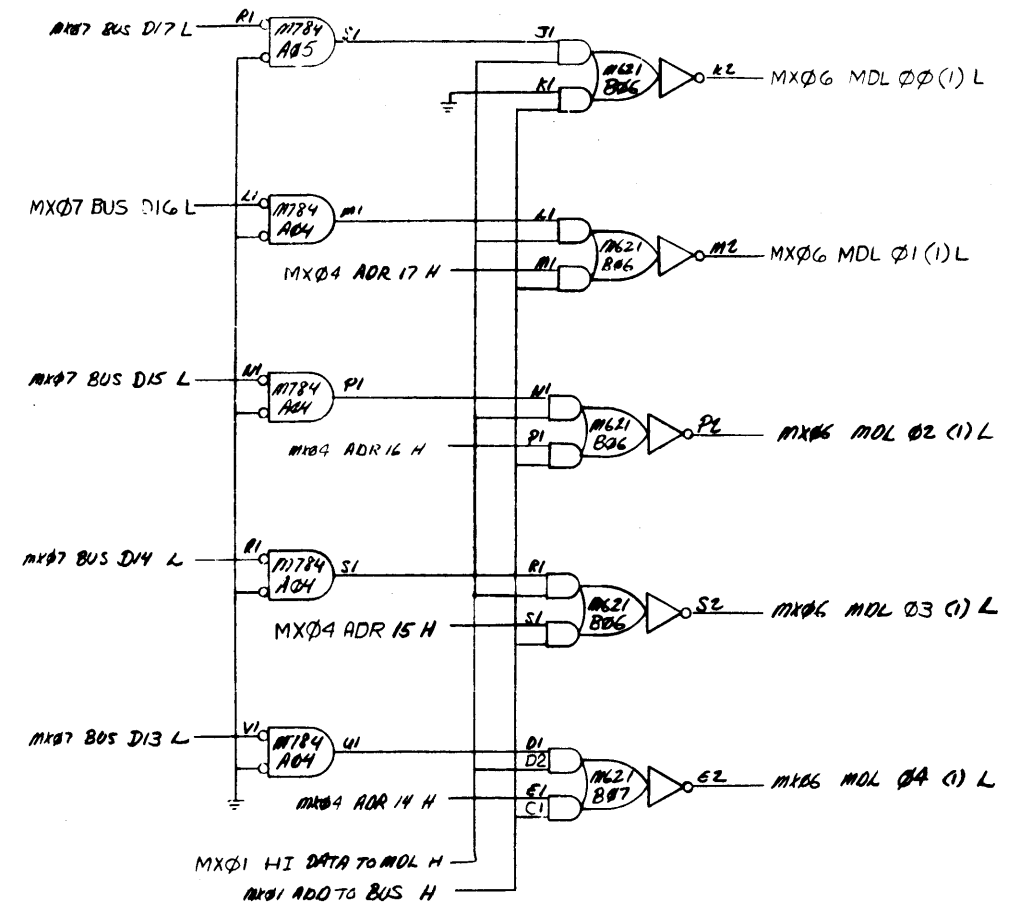
QTY	DESCRIPTION	PART NO	ITEM NO
	PARTS LIST		
DRN	A. HELENIUS	DATE 2-3-72	
CHKD	P.J. LE BLANC	DATE 2-14-72	
ENG	A. HELENIUS	DATE 1-31-72	
PROJ ENG	M.C. GRAY	DATE 1-31-72	
PROD	L.A. SBRAGA	DATE 2-3-72	
NEXT HIGHER ASSY		B-DL-UC15-0	
SCALE			
SHEET	1 OF 1		

TITLE
11 ARRIVING
(LOW ORDER BITS)

SIZE CODE
DBS MX15-B-02

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D
C
B
A



REV	DATE	BY
1	1/15/73	W. J. ...
2	1/15/73	W. J. ...
3	1/15/73	W. J. ...
4	1/15/73	W. J. ...
5	1/15/73	W. J. ...
6	1/15/73	W. J. ...
7	1/15/73	W. J. ...
8	1/15/73	W. J. ...

FIRST USED ON OPT/MOD	QTY.	DESCRIPTION	PART NO.	ITEM NO.
UC15				
UNLESS OTHERWISE SPECIFIED	DATE	DATE	PARTS LIST	
UNLESS OTHERWISE SPECIFIED	1/15/73	1/15/73	DIGITAL EQUIPMENT CORPORATION	
DIMENSION IN INCHES	1/15/73	1/15/73	MAYNARD MASSACHUSETTS	
TOLERANCES	DATE	DATE	TITLE	
DECIMALS FRACTIONS ANGLES	1/15/73	1/15/73	II ARRIVING (HIGH ORDER BITS)	
± 0.005 ± 0.005 ± 0.005	DATE	DATE	SIZE CODE	NUMBER
FINAL SURFACE QUALITY	1/15/73	1/15/73	DBS	MX15-B-43
REMOVE BURRS AND BREAK SHARP CORNERS	DATE	DATE	SCALE	REV
MATERIAL	1/15/73	1/15/73	1:1	A
FINISH	DATE	DATE	SHEET	OF
	1/15/73	1/15/73	1	1

REV. A
NUMBER
D BS MX15-B-43

DIGITAL FORM NO. 102A

8

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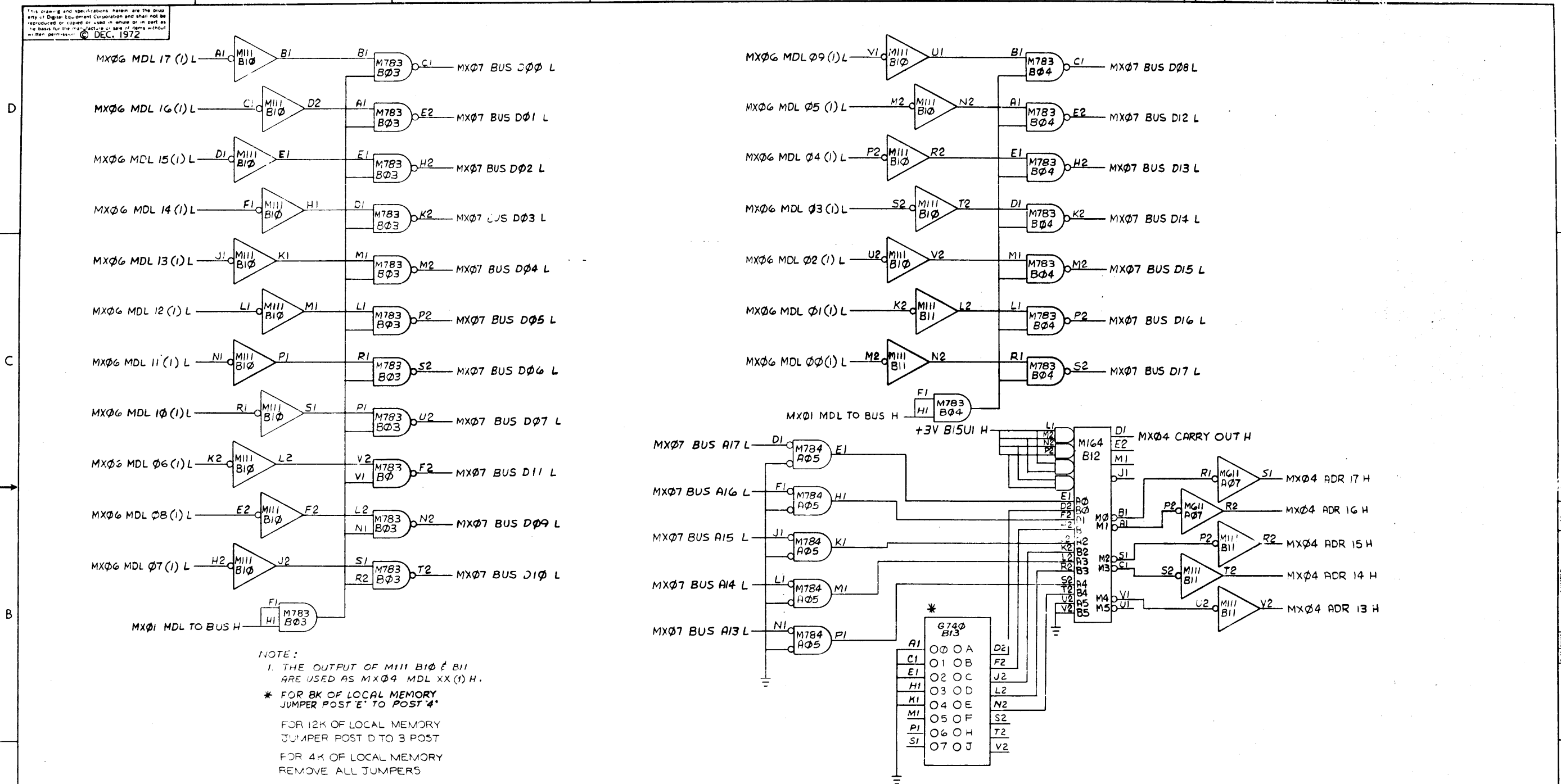
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1

MX15-B-43

2

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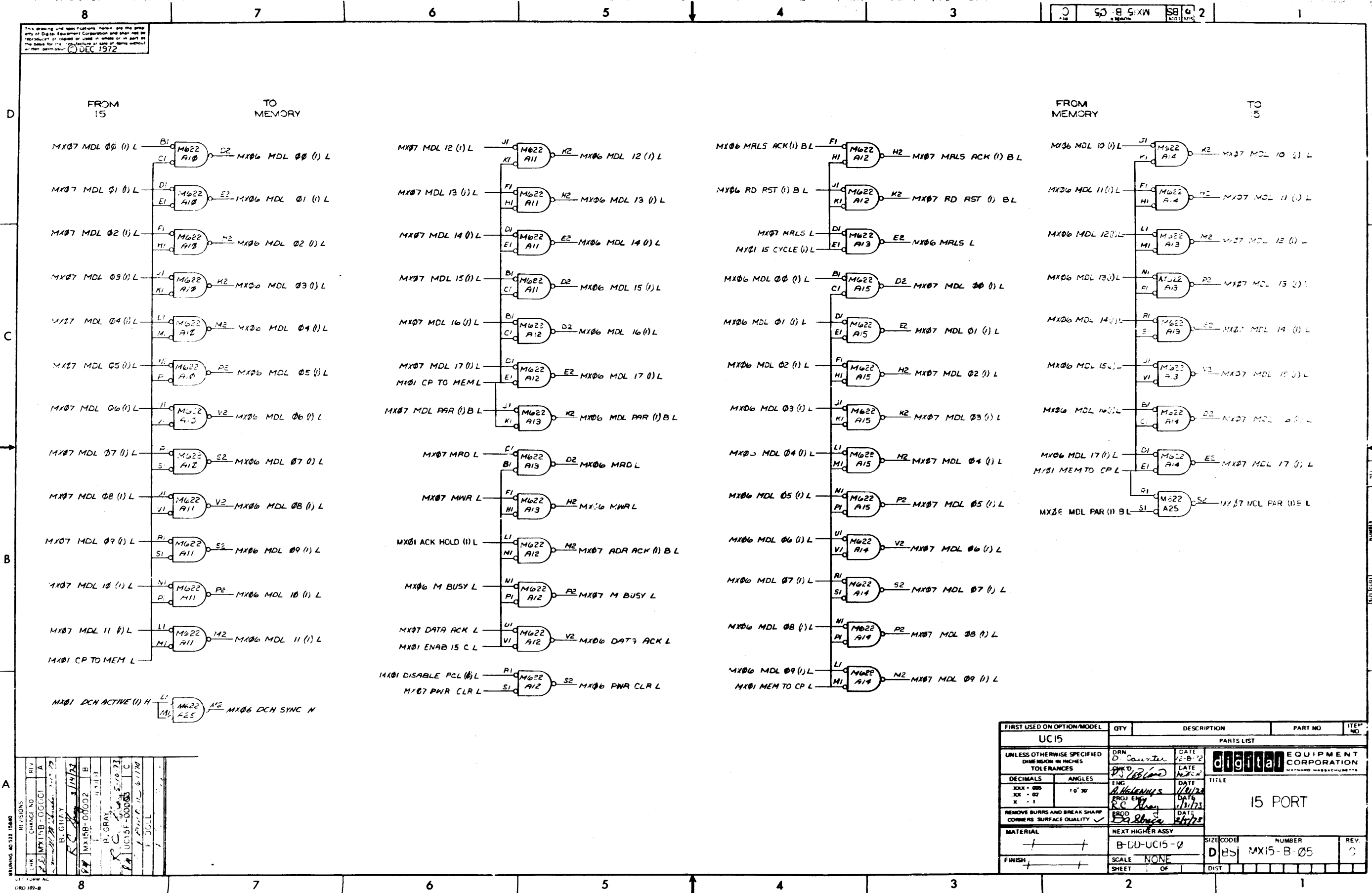


REV	NO	DATE	BY	CHK
1	A	1/2/73	W. McLean	P. S. King
2	A	1/2/73	W. McLean	P. S. King

FIRST USED ON OPTION/MODEL UC15	QTY	DESCRIPTION	PART NO	ITEM NO
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES				
DECIMALS	ANGLES	ENG	DATE	TITLE
XXX - 000	± 0 30'	W. McLean	1/2/73	UNIBUS DATA
XX - 02		PROJ ENG	1/2/73	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL				
NEXT HIGHER ASSY				
FINISH			SIZE CODE	NUMBER
SHEET 1 OF 1			DPS	MX15-B-04
DIST			REV	A

PART NO MX15-B-04

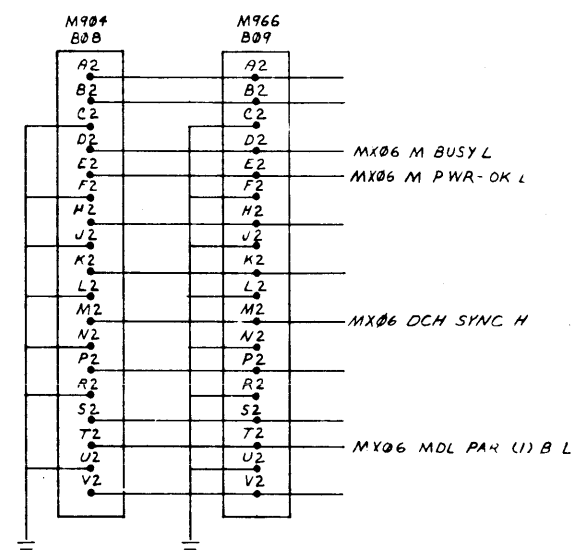
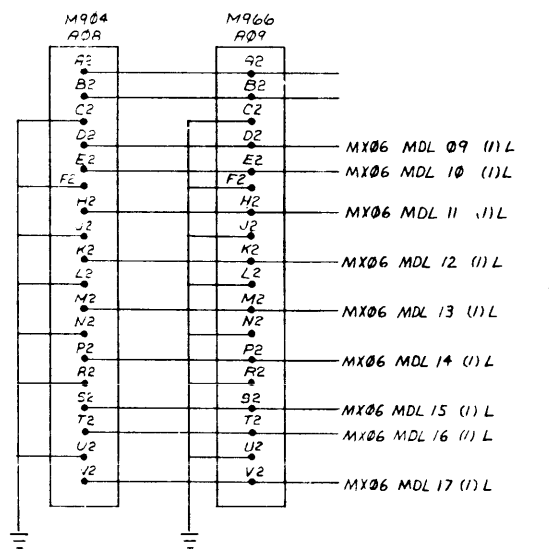
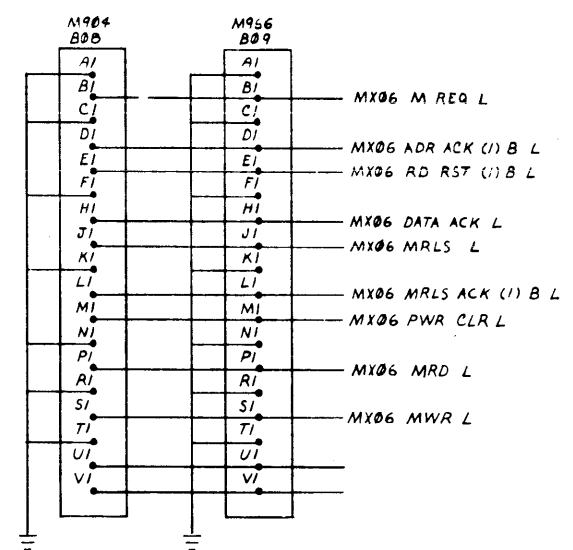
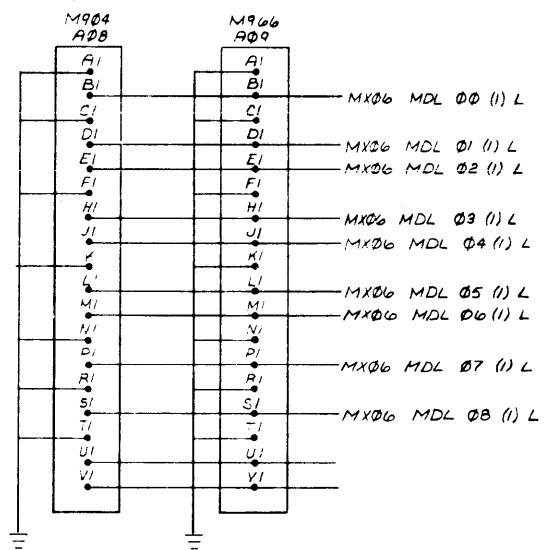
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REV	DATE	BY	CHKD	DESCRIPTION
1	1/11/73	B. GRAY		REVISED
2	1/11/73	R. GRAY		REVISED
3	1/11/73	R. C. MANN		REVISED
4	1/11/73	R. C. MANN		REVISED
5	1/11/73	R. C. MANN		REVISED
6	1/11/73	R. C. MANN		REVISED
7	1/11/73	R. C. MANN		REVISED
8	1/11/73	R. C. MANN		REVISED

FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO	ITEM NO
UC15		PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES	DRN D. Counter	DATE 12-8-72		
TOLERANCES	CHK'D D. B. [Signature]	LATE [Signature]		
DECIMALS	ANGLES	DATE 1/11/73	15 PORT	
XXX - 005	± 0° 30'	DATE 1/11/73		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	ENG A. Helander	DATE 1/11/73	TITLE 15 PORT	
MATERIAL	PROJ ENG R. C. Mann	DATE 1/11/73	SIZE CODE B-DD-UC15-0	
FINISH	PROD D. B. [Signature]	DATE 1/11/73	NUMBER D BSI MX15-B-05	
	NEXT HIGHER ASSY		SCALE NONE	
			SHEET OF	
			DIST	

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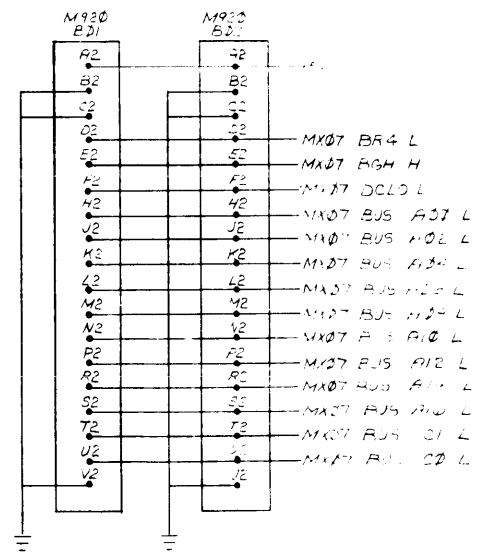
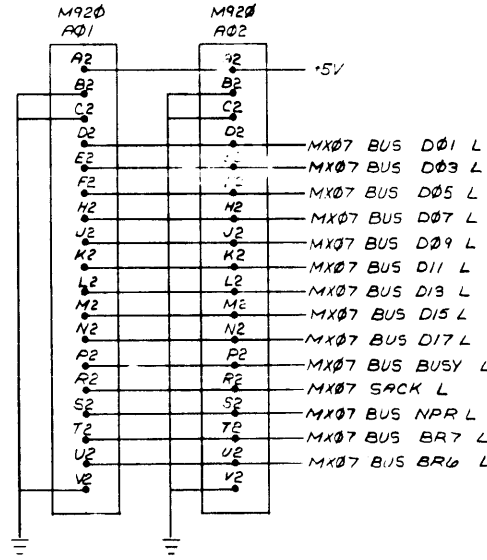
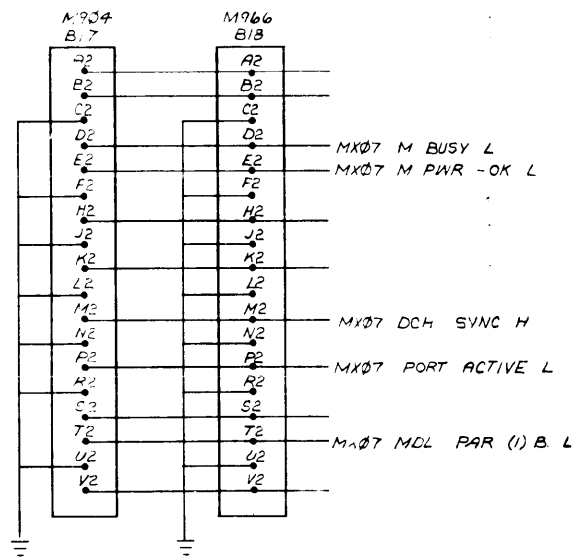
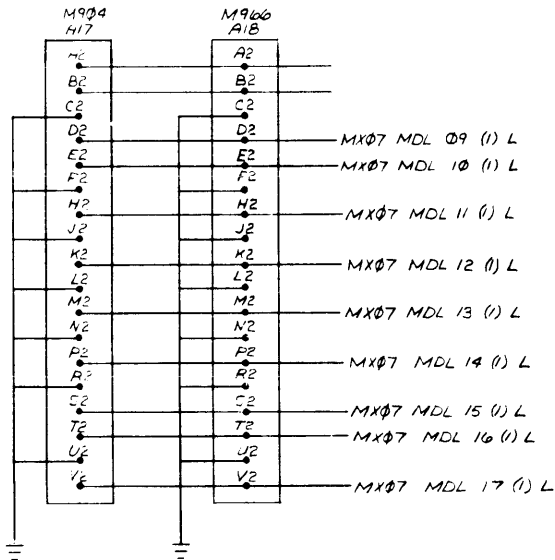
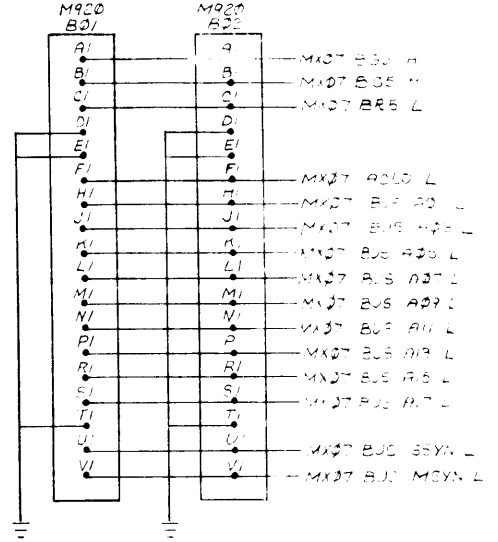
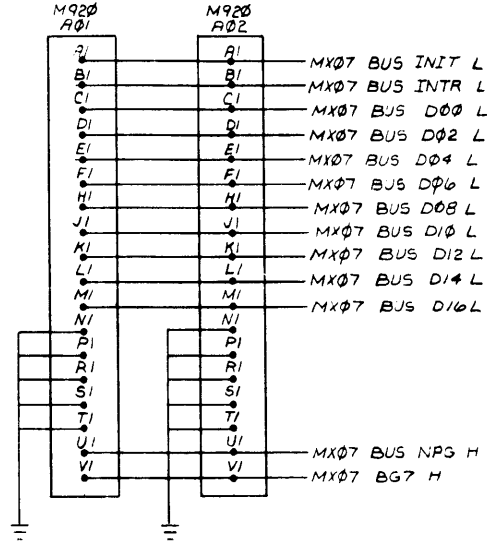
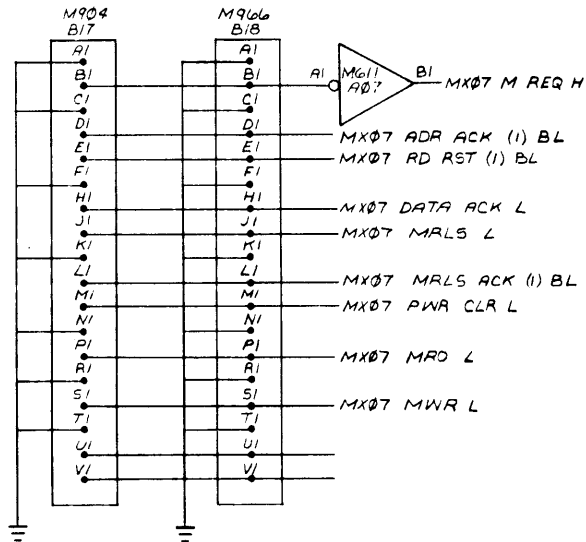
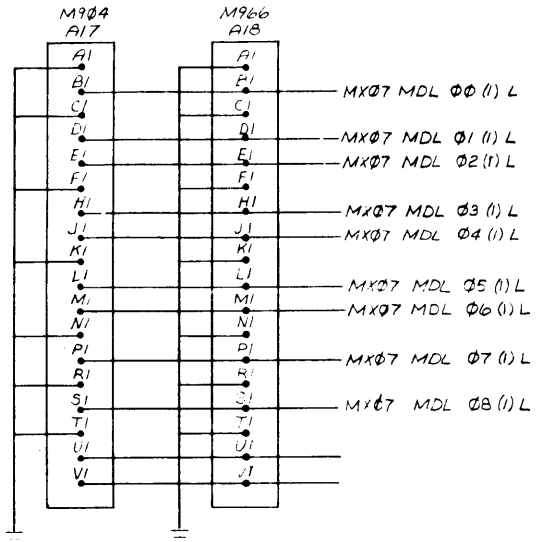


REV	CHG	NO	DATE
1	MX15B-00001	A	3-2-73
2	UC15F-00003	A	3-11-73
3	F-DOLL		

FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO.	ITEM NO.
UC15				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN: <i>D. Counter</i> DATE: 2-2-72 CHK'D: <i>(Signature)</i> DATE: 1/26/72 ENG: <i>A. HALEMUIS</i> DATE: 1/11/72 PRD'G ENGR: <i>R.C. Gray</i> DATE: 1/31/73 PROD: <i>DG. Shiga</i> DATE: 2/1/73		
DECIMALS	ANGLES	TITLE: MEMORY BUS		
xxx - 006	± 0' 30"			
xx - 02				
x - 1				
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓				
MATERIAL	NEXT HIGHER ASSY.			
FINISH	B-DD-UC15-0			
SCALE: 1:1		SIZE CODE: D I C	NUMBER: MX15-R-06	REV: E
SHEET: 1 OF 1		DIST: 1		

DATE: 1/26/72
DRAWN: D. Counter
CHECKED: (Signature)
ENGINEER: A. HALEMUIS
PRODUCTION ENGINEER: R.C. Gray
PRODUCED: DG. Shiga

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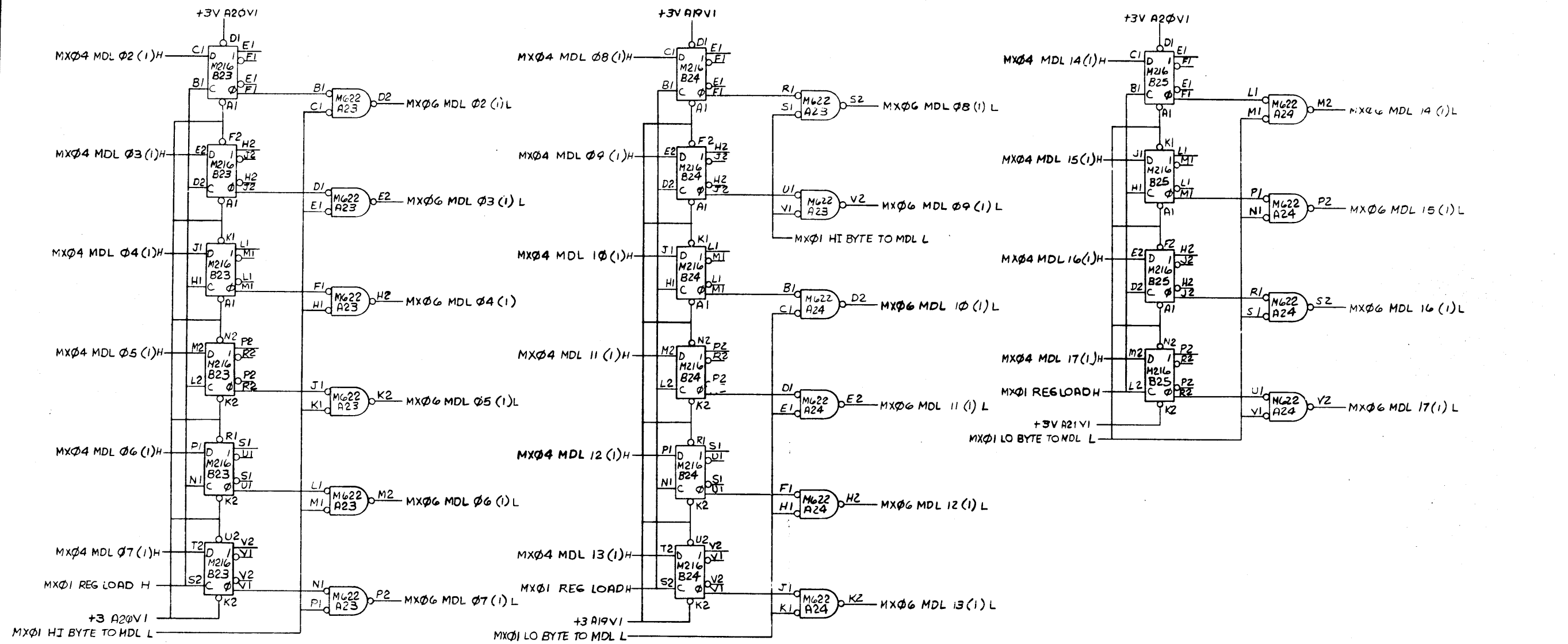


REVISIONS

REV	CHG	BY	DATE
1	1
2	1
3	1
4	1
5	1

FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO	ITEM NO
UC15				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES				
DECIMALS	ANGLES	PARTS LIST		
XXX - 006	± 0° 30'	DIGITAL EQUIPMENT CORPORATION		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		PROCESSOR BUS		
MATERIAL		NEXT HIGHER ASSY		
FINISH		B-DD-UC15-0		
		D I C MX15-B-07		
		SCALE NONE		
		SHEET 1 OF 1		

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REV	CHANGE NO	DATE
1	UC15 00003	11/1/72
2	UC15 00003	11/1/72
3	UC15 00003	11/1/72

FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO.	ITEM NO.
UC15				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DATE 11/1/72	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
DECIMALS	ANGLES	DATE 11/1/72	TITLE BYTE REGISTER	
XXX - 005	10° 30'	DATE 11/1/72	REV. A	
XX - 02		DATE 11/1/72	NUMBER D BS MX15-B-08	
X - 1		DATE 11/1/72	REV. A	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		DATE 11/1/72	SIZE CODE D BS MX15-B-08	
MATERIAL		DATE 11/1/72	NUMBER D BS MX15-B-08	
FINISH		DATE 11/1/72	REV. A	
		DATE 11/1/72	NUMBER D BS MX15-B-08	
		DATE 11/1/72	REV. A	

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

QUANTITY / VARIATION

MADE BY	V. SOUZA	CHECKED	<i>P. J. LeBlond</i>	SECTION	1
DATE	11/17/72	DATE	18 DEC '72	ISSUED SECT.	1
ENG		PROD	<i>Da Souza</i>		
DATE	<i>A. HELGNIUS</i>	DATE	2/5/73		

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY	UNIT	REMARKS
1	M111	INVERTER	2		
2	M112	NOR GATE	1		
3	M133	TWO-INPUT NAND GATES	1		
4	M135	THREE-INPUT NAND GATES	2		
5	M164	6 BIT ADDER	1		
6	M216	SIX FLIP FLOPS	3		
7	M246	5 D FLIP FLOPS	3		
8	M311	TAP DELAY	1		
9	M312	DELAY MODULE	1		
10	M611	HIGH SPEED POWER INVERTER	1		
11	M621	DATA BUS DRIVER	3		
12	M622	BUS DRIVER	10		
13	M627	POWER AMPLIFIER MODULE	2		
14	M688	UNIBUS POWER FAIL DRIVER	1		
15	M783	UNIBUS DRIVERS	2		
16	M784	UNIBUS RECEIVER	3		
17	M904	CONNECTOR (COAXIAL)	4		
18	M920	INTERNAL BUS CONNECTOR	4		
19	M966	RESISTOR TERMINAL	4		
20	G740	DISK SELECTOR MODULE	1		

TITLE	MODULE UTILIZATION MX15-B	ASSY NO.	D-MU-MX15-B-09	SIZE CODE	A PL	NUMBER	MX15-B-09	REV.	A	ECO NO.	UC15F-00003
		SHEET	1	OF	1	DIST.					

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SIZE CODE NUMBER REV. K WL MX15-B-WL E

B

B



FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
UC15				

REVISIONS	CHANGE NO.	REV.
1	MX15B-00001	A
<i>Domini P. B. Deissler 3-13-73</i>		
B. GRAY		
2	MX15B-00002	B
<i>R. C. Gray 3/14/73</i>		
B. GRAY		
3	UC15F-00003	C
<i>R. C. Gray 5/10/73</i>		
E. BENDON		
<i>E. Bendon 6-17-74</i>		
F. DOLL		
<i>F. Doll 7/25/74</i>		
D		
<i>D. Doll 11-25-74</i>		
F. DOLL		
<i>F. Doll 1-24-75</i>		
E		
<i>R. D. Jones 1-23-75</i>		
F. DOLL		
<i>F. Doll 1-24-75</i>		

DRN. <i>R. C. Gray</i>	DATE 12/12/72
CHK'D. <i>D. J. (E) Gray</i>	DATE 2 Dec 72
ENG. <i>A. Helgans</i>	DATE 1/21/73
PROJ. ENG. <i>R. C. Gray</i>	DATE 1/8/73
PROD. <i>Ed Stuga</i>	DATE 2/5/73



TITLE
**WIRE LIST
 (MX15-B)**

NEXT HIGHER ASSEMBLY D-AD-7009165-0-0	SIZE CODE K WL	NUMBER MX15-B-WL	REV. E
SCALE <i>1:1</i>	SHEET	OF	DIST.

4

3

2

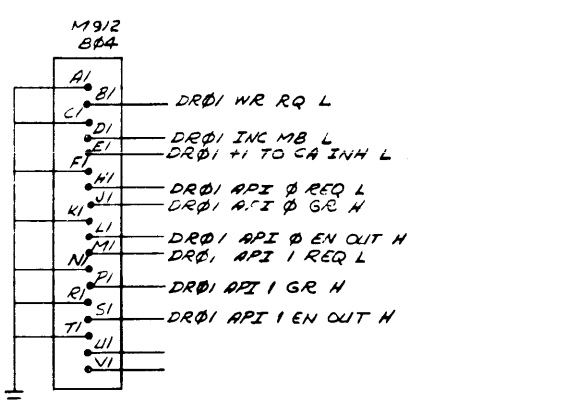
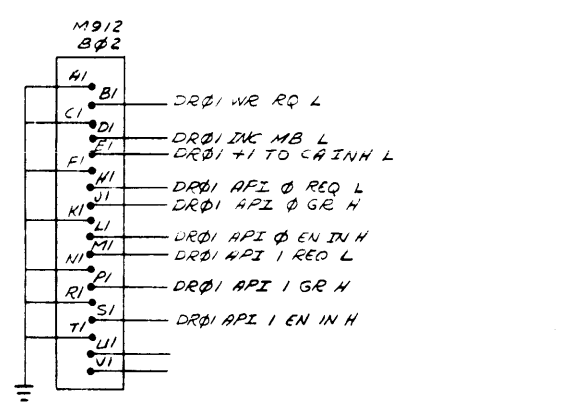
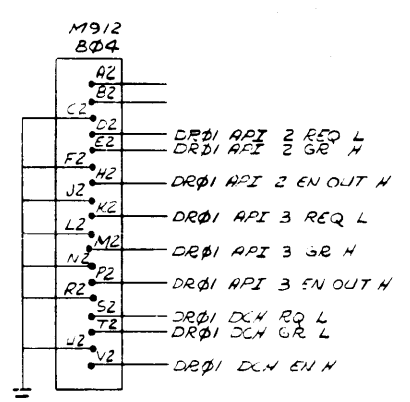
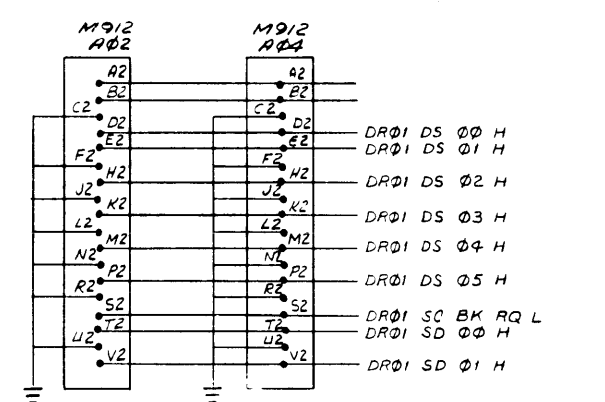
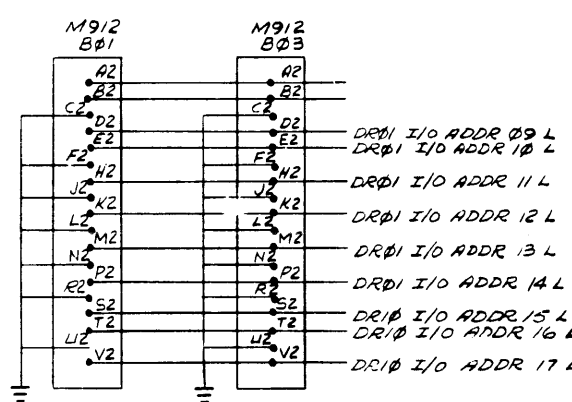
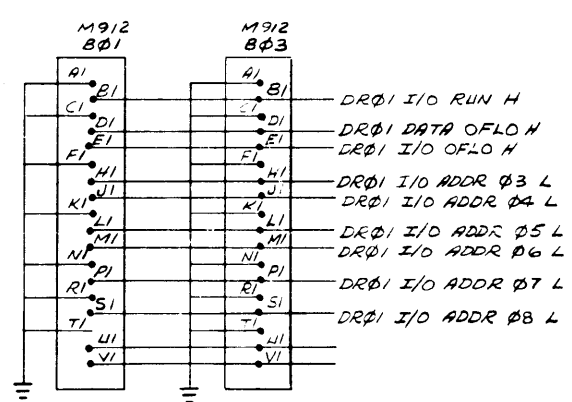
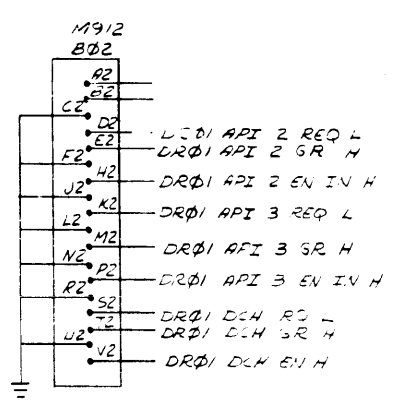
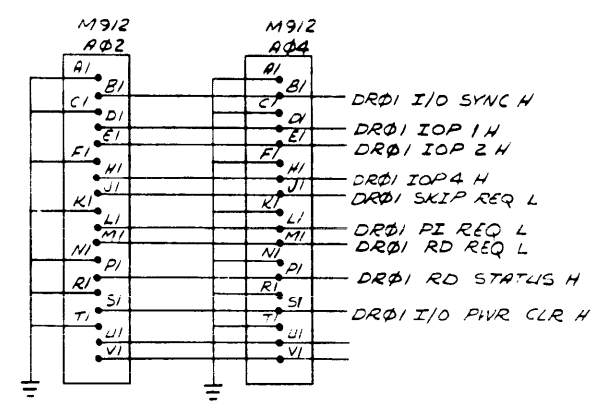
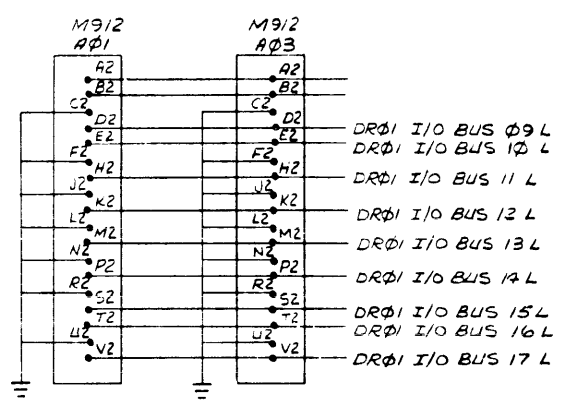
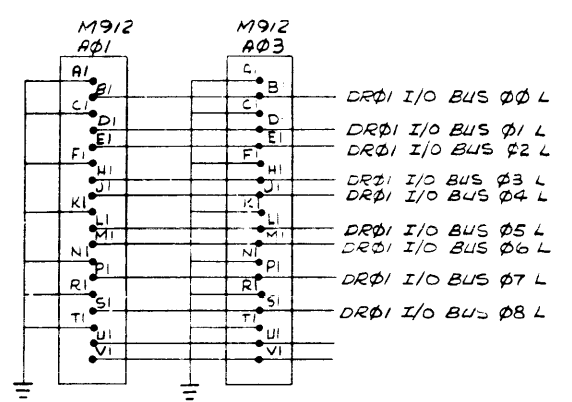
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A

A



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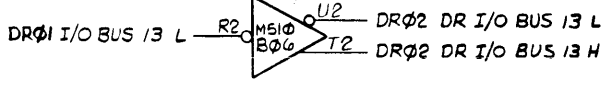
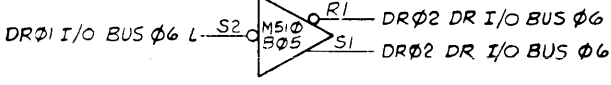
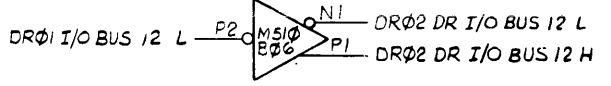
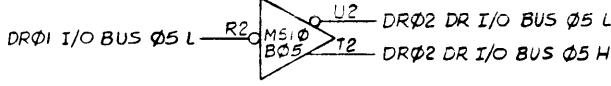
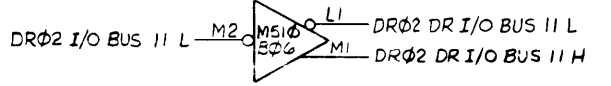
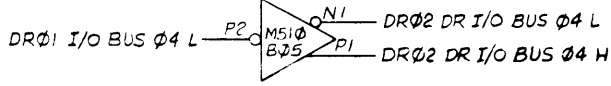
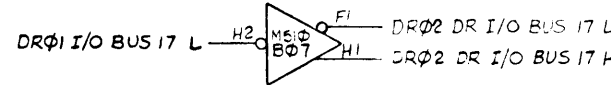
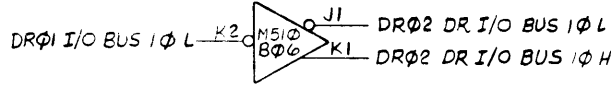
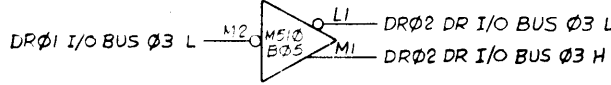
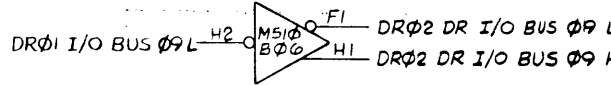
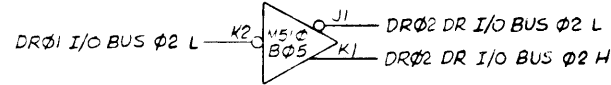
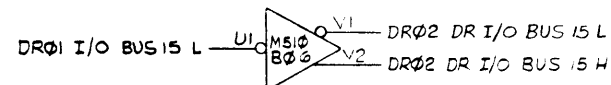
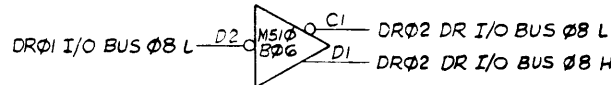
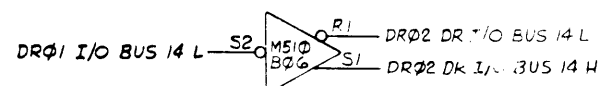
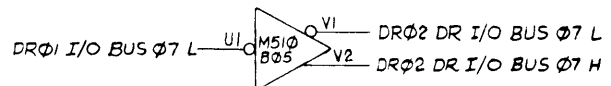
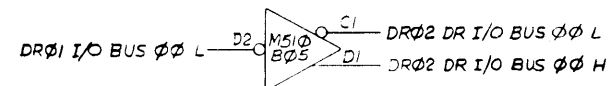
REV	DESCRIPTION
1	UC15-00003
2	REVISED
3	REVISED
4	REVISED
5	REVISED
6	REVISED
7	REVISED
8	REVISED

FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO	ITEM NO
UC15				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRW W. H. H.	DATE 12-72		
DECIMALS ANGLES	CHK P. G. B.	JATE 1/10/72		
xxx - 009 xx - 02 x - 1	20' 30"	ENG A. Helander	DATE 1/1/72	TITLE I/O BUS
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	✓	PROJ ENG W. K. C. Avey	DATE 1/1/72	
MATERIAL	++	DRØ1	DATE 2/1/72	
FINISH	++	B-DD-UC15-0		
		SCALE NONE		
		SHEET 1 OF 1		
		SIZE CODE	NUMBER	REV
		DIC	DR15-C-Ø1	A

D I C DR15-C-Ø1

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D
C
B
A

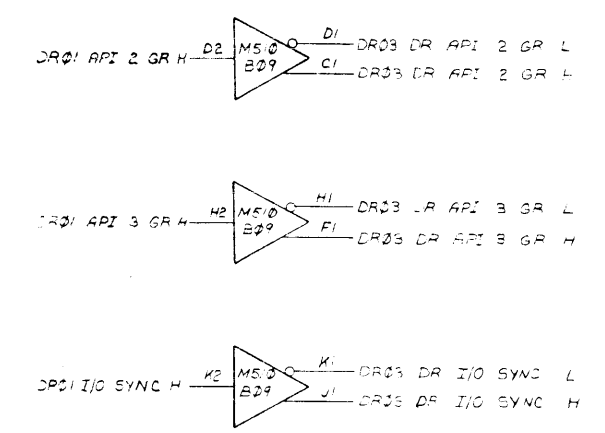
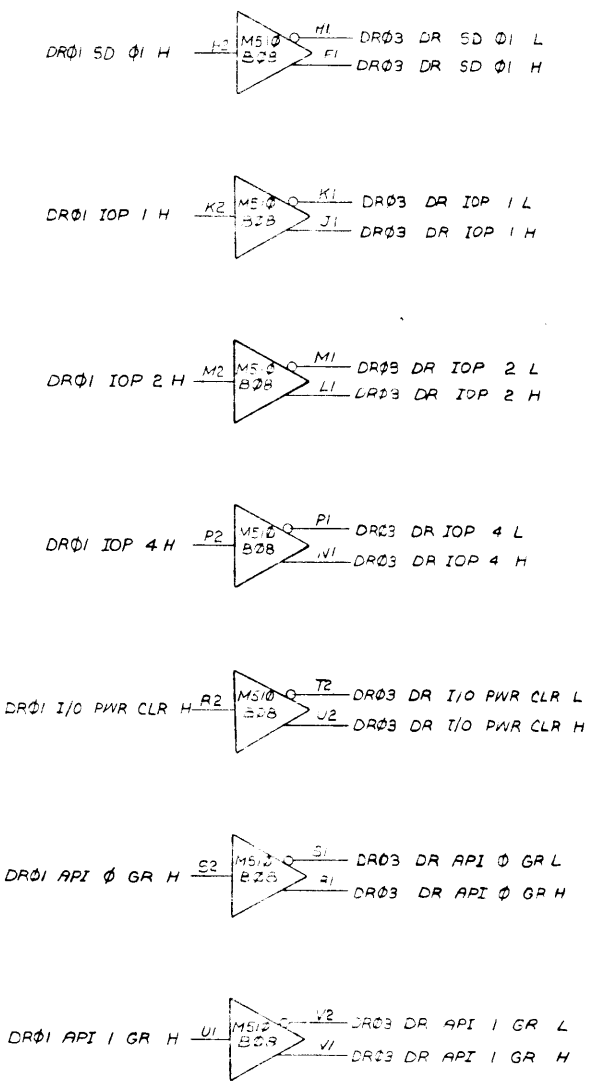
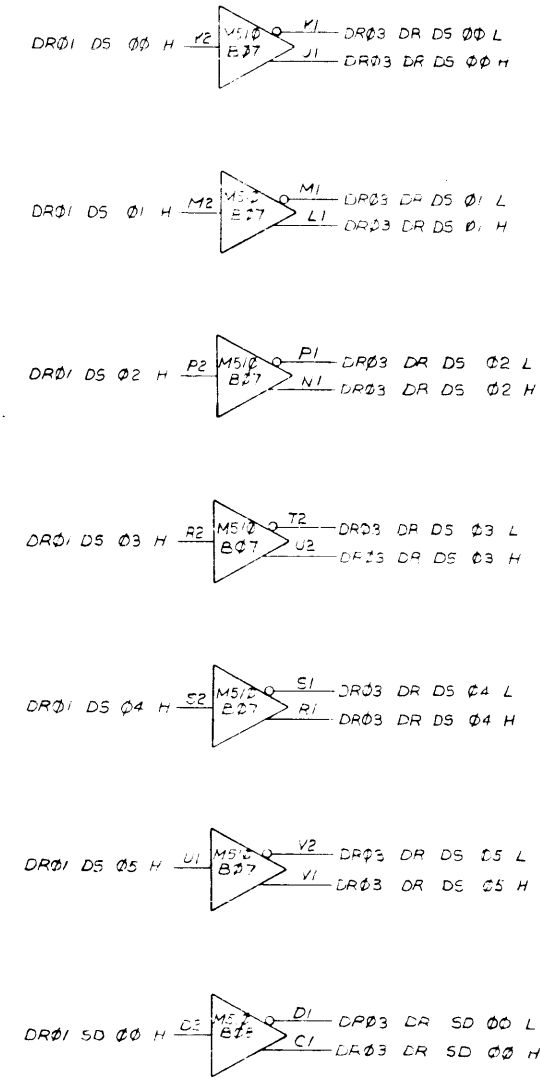


REV	DATE	BY	CHK
1			
2			
3			
4			
5			
6			
7			
8			

FIRST USED ON OPTION MODEL	QTY	DESCRIPTION	PART NO.	ITEM NO.
UC15				
UNLESS OTHERWISE SPECIFIED:				
DIMENSION IN INCHES		TOLERANCES		
DECIMALS	ANGLES	TITLE		
XXX.005	±0.30	I/O BUS IN		
XX.02		digital EQUIPMENT CORPORATION		
X.1		MILITARY GRADE COMPONENTS		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL				
NEXT HIGHER ASSY				
FINISH		SCALE	SHEET	OF
B-DD-UC15-0		1:1	1	1
D5S DR15-C-02		DATE	DATE	DATE
		12/22/72	12/22/72	12/22/72
		1/2/73	1/2/73	1/2/73
		1/2/73	1/2/73	1/2/73
		1/2/73	1/2/73	1/2/73

D5S DR15-C-02

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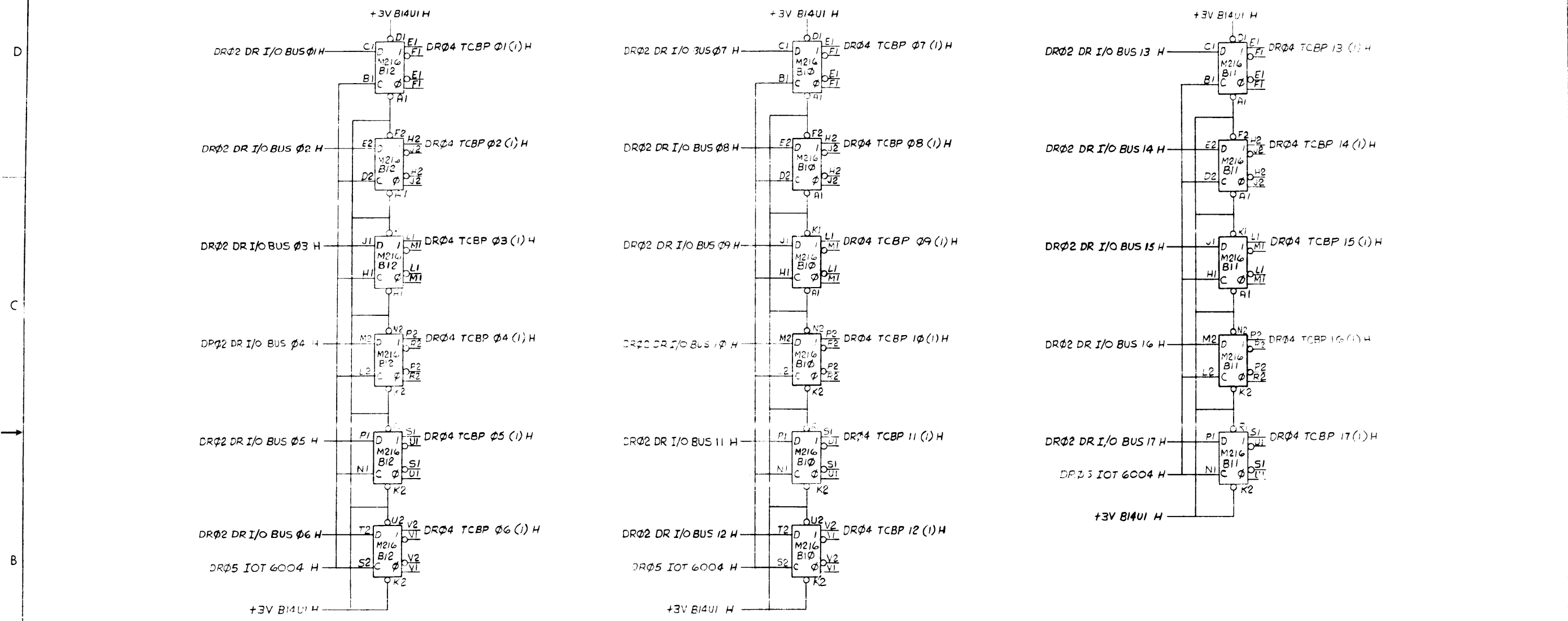
BRUNING 40 537 15840

REV	CHG	NO	DATE
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3	UC15	00003	A
4	UC15	00003	A

REVISIONS
 F. DOLL

FIRST USED ON OPTION MODEL	QTY	DESCRIPTION	PART NO	REV NO
UC15				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES	DRY Counter	DATE 12-7-72	digital EQUIPMENT CORPORATION	
TOLERANCES	CHND	DATE 1/2/73	TITLE	
DECIMALS	ANGLES	FIN	CONTROL IN	
XXX + .005	10' 30'	A. HAGENWIS	DATE 1/2/73	
X .1		R. C. HAY	DATE 1/2/73	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		J. A. BRAGA	DATE 2/1/73	
MATERIAL	NEXT HIGHER ASSY			
	B-DD-UC15-0	SIZE CODE	NUMBER	REV
FINISH	SCALE NONE	D BS	DR15-C-03	A
	SHEET 1 OF 1	DIST		

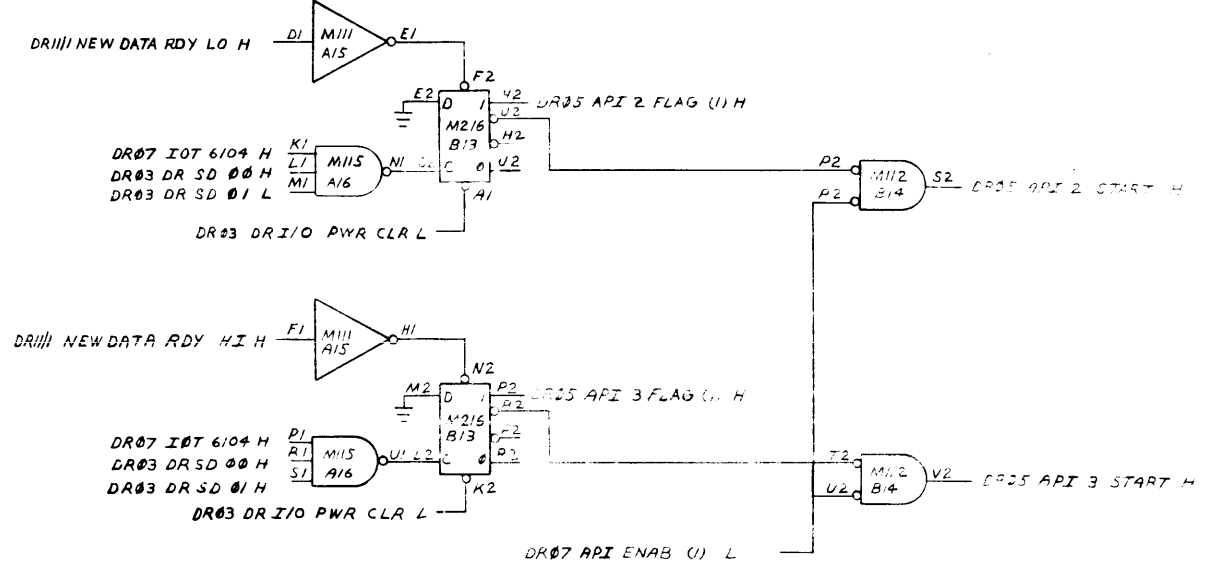
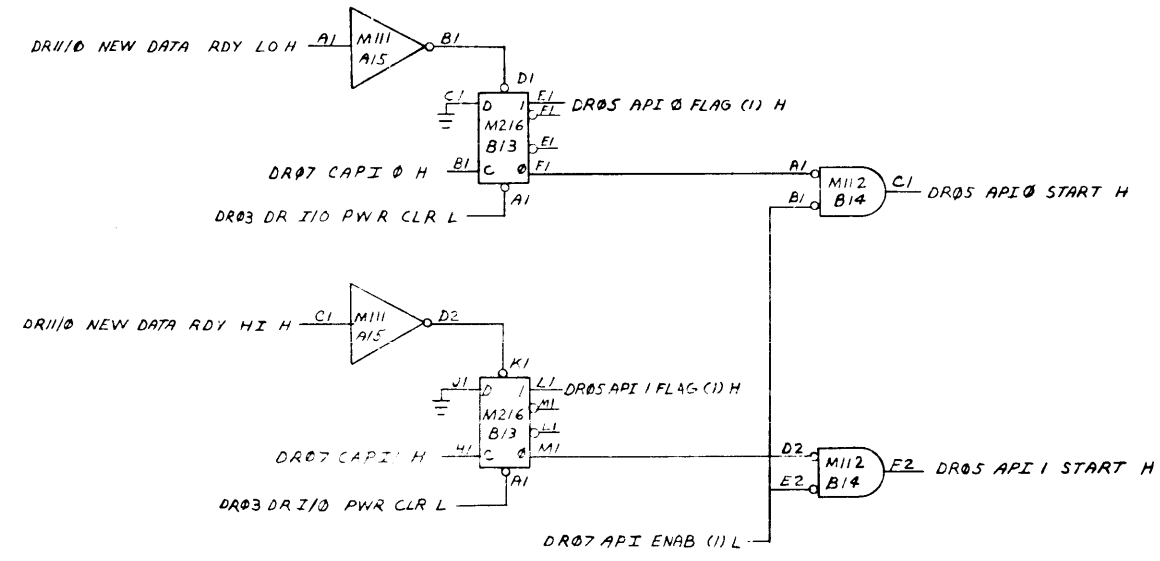
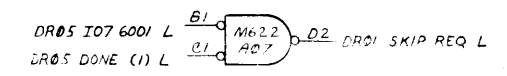
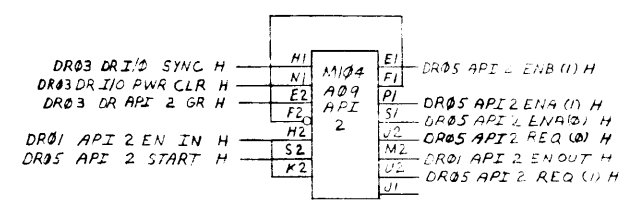
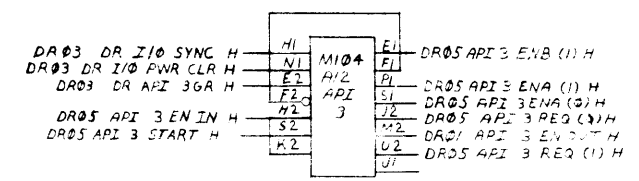
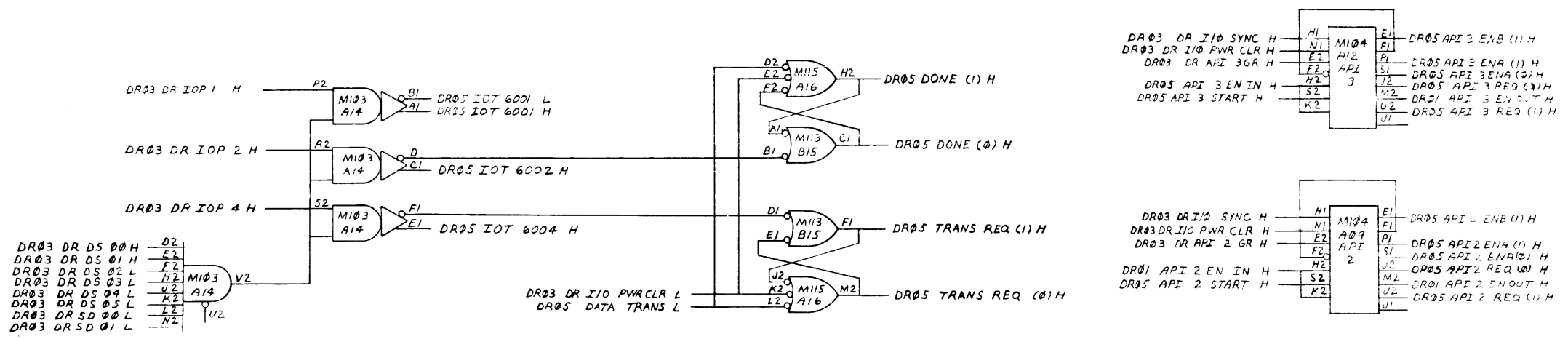
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1	2	3	4	5	6	7	8
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FIRST USED ON OPTION MODEL	QTY	DESCRIPTION	PART NO.	ITEM NO.
UC15				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES				
DECIMALS	ANGLES	DRAWN BY: <i>[Signature]</i>		
XXX - 005	10 - 30	CHECKED BY: <i>[Signature]</i>		
XX - 02		APPROVED BY: <i>[Signature]</i>		
X - 1		DATE: 5/10/75		
REMOVE BURRS AND BREAK SHARP CORNERS TO REFERENCE QUALITY		BLOCK CONTROL BLOCK POINTER		
MATERIAL		NEXT HIGHER ASSY		
		B-DD-UC15-0		
FINISH		SCALE		
		1 OF 1		

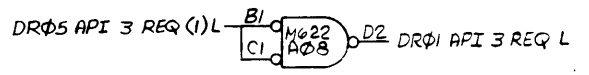
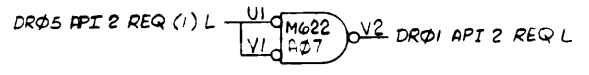
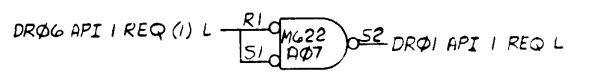
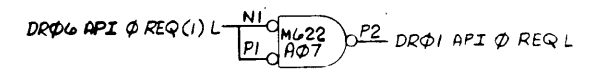
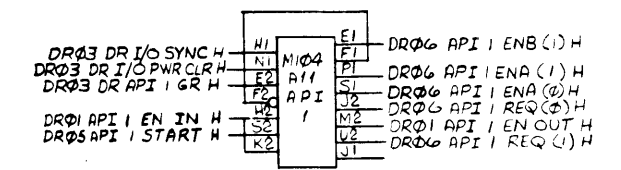
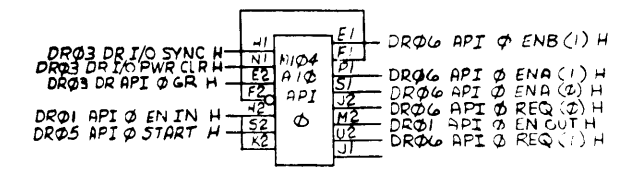
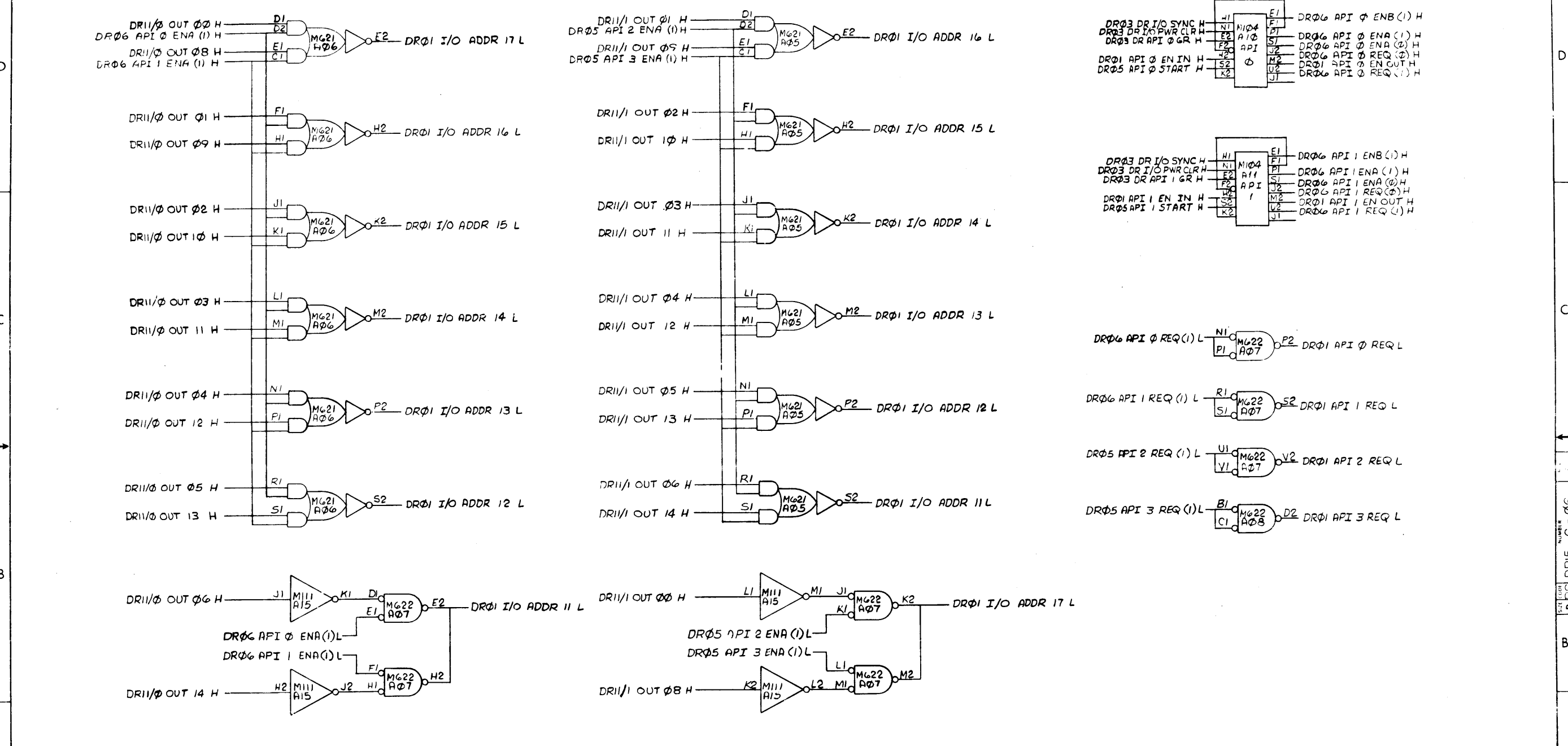
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 NOV 1972



REV. NO.	REV.
1	A
2	B
3	C
4	D
5	E
6	F
7	G
8	H

FIRST USED ON OPTION MODEL	QTY	DESCRIPTION	PART NO.	REV.
UC15				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES	DRN 3	DATE 11/2/72	DIGITAL EQUIPMENT CORPORATION	
DECIMALS	ANGLES	ENG A. HIGGINS	TITLE API CONTROL	
XXX - 005 XX - 02 X - 1	10° 30'	PROJ ENGR R. C. HAY	DATE 11/31/72	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		PROD D. A. MORGAN	DATE 11/2/72	
MATERIAL	NEXT HIGHER ASSY	SIZE CODE	NUMBER	
	B-DD-UC15-0	DBS	DR-5-C-05	
FINISH	SCALE	DATE	OF	

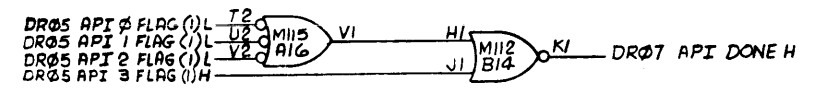
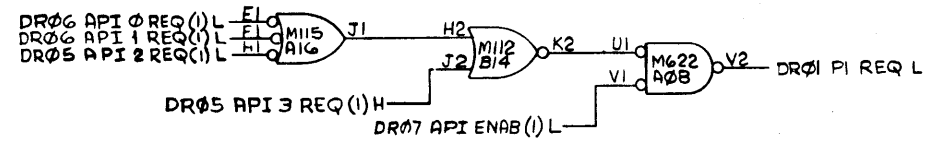
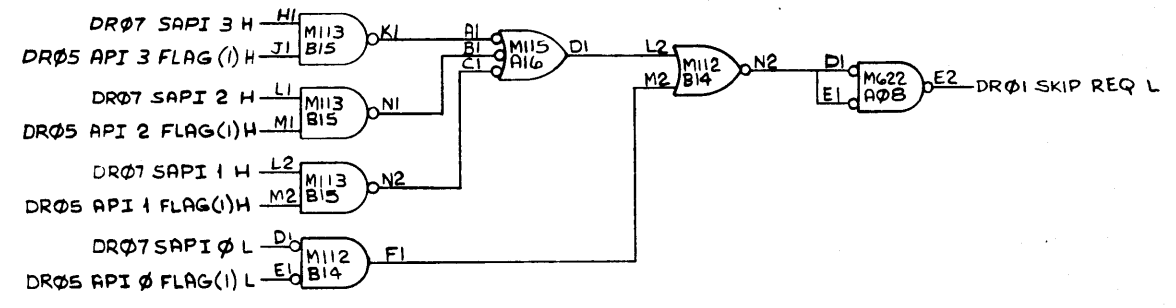
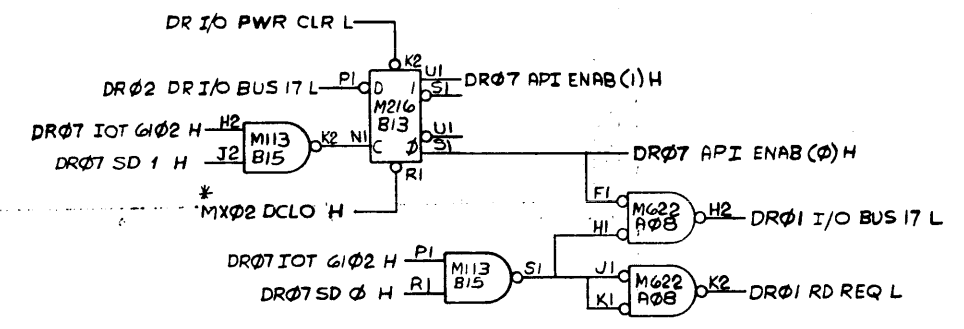
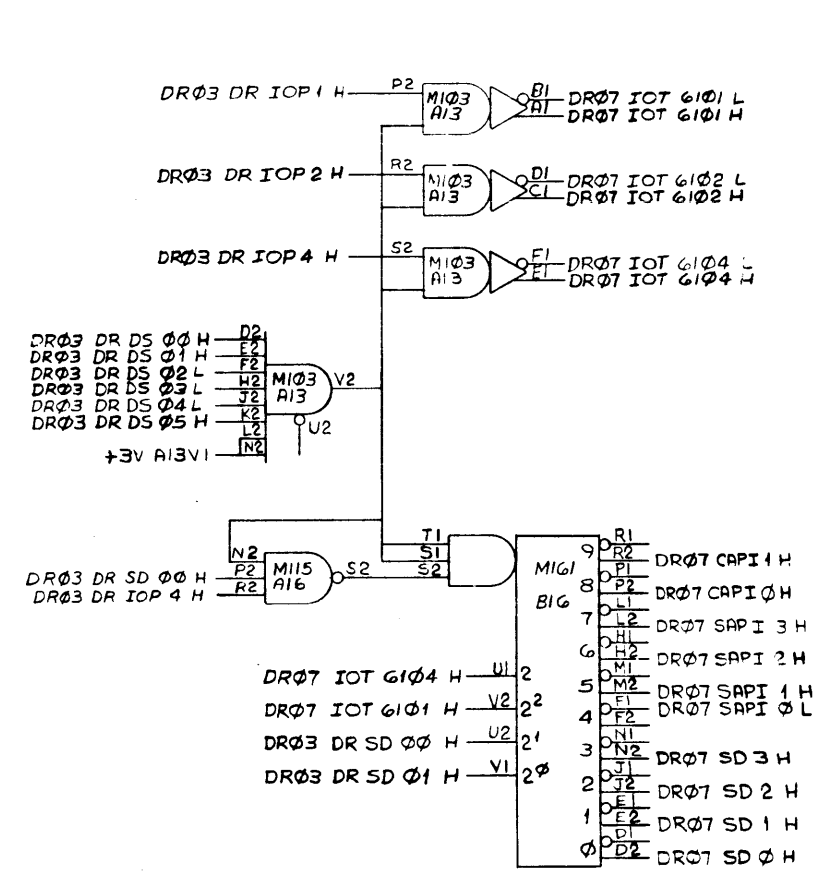
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REV. DATE	REV. DATE
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8

FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO	ITEM NO
UC15				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DATE 12-1-72	digital EQUIPMENT CORPORATION	
DECIMALS .005	ANGLES ±0°30'	DATE 12-1-72	TITLE	
XX - 02		DATE 1/31/73	API ADDRESS	
X - 1		DATE 2/15/73		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		PROD DATE 2/15/73		
MATERIAL	NEXT HIGHER ASSY	SIZE CODE	NUMBER	REV
	B-DD-UC15-0	D	BS DR15-C-06	A
FINISH	SCALE	SHEET	OF	DIST
		1	1	

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* THIS SIGNAL COMES FROM
MX15-B (A07-L2)

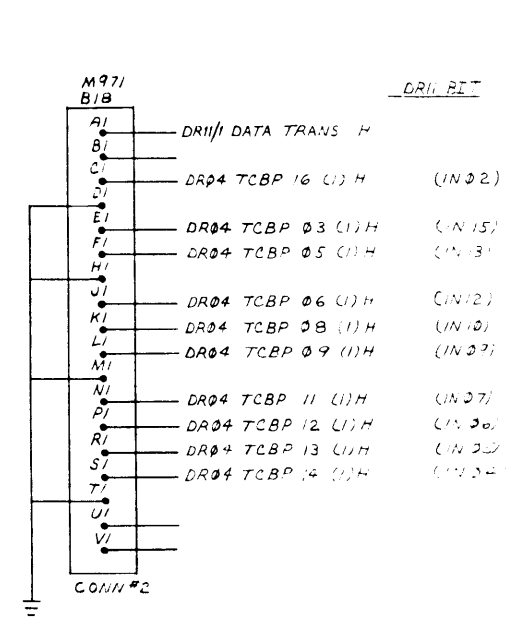
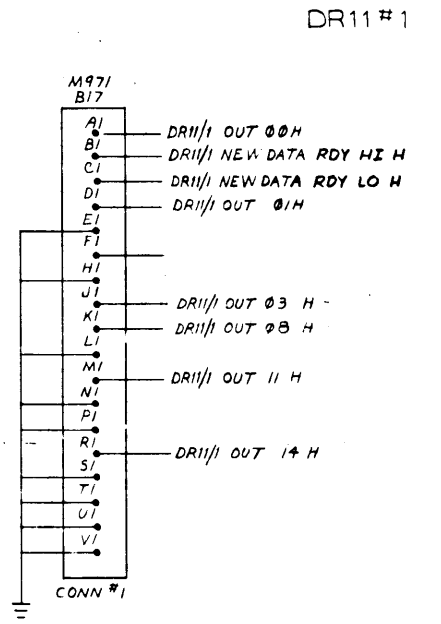
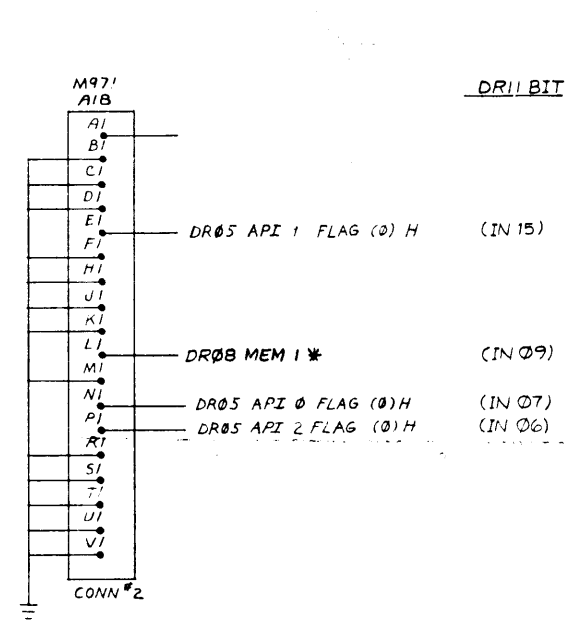
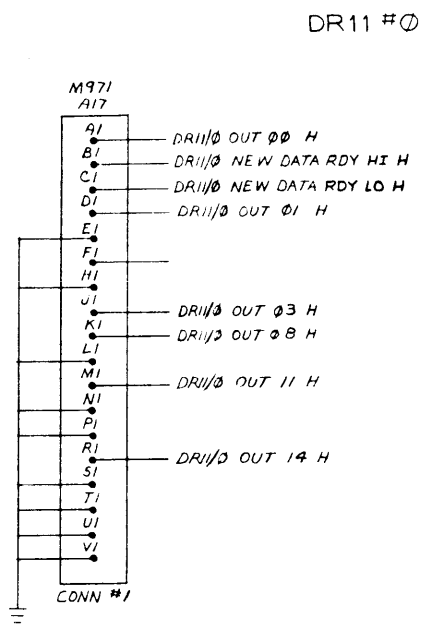
BRUNING 40-922 15840

REV	CHANGI NO	DATE
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2	UC15F-00003	A
3	UC15F-00003	A

F. DOLI

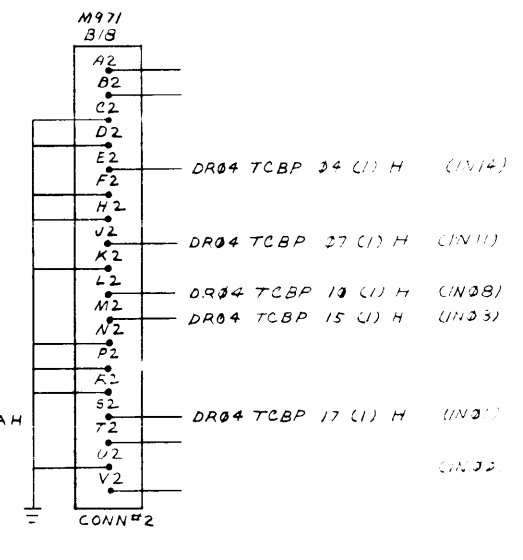
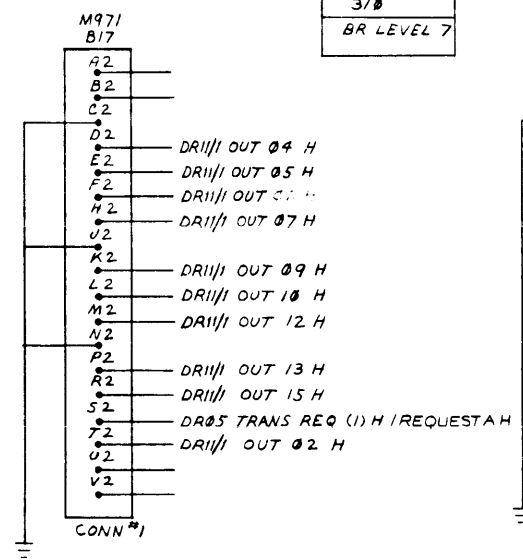
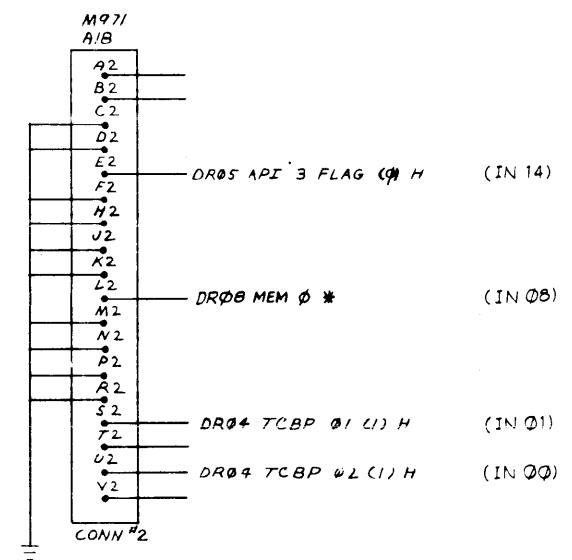
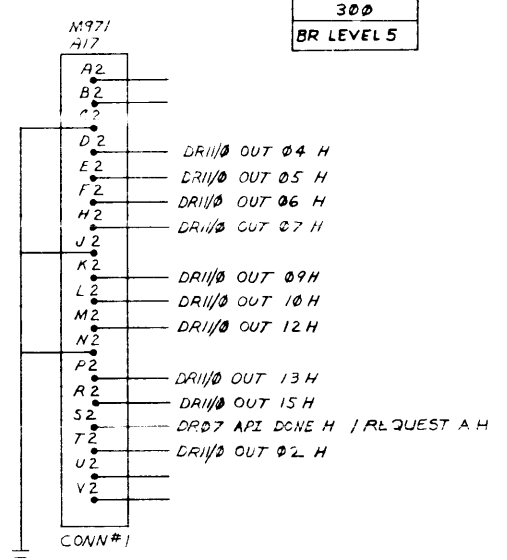
FIRST USED ON OPTION/MODEL UC15	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN <i>[Signature]</i>	DATE 11/6/72	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
DECIMALS .xxx + .005 .xx + .02 x - 1	ENG <i>[Signature]</i>	DATE 11/17/72	TITLE PI CONTROL	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROJ ENGR <i>[Signature]</i>	DATE 11/17/72		
MATERIAL	PROD <i>[Signature]</i>	DATE 11/17/72		
FINISH	NEXT HIGHER ASSY	SIZE/NO	NUMBER	REV
	B-DD-UC15-0	D	BS DR15-C-07	A
	SCALE	DIST		
	SHEET	OF		

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DR11 #0
767770
300
BR LEVEL 5

DR11 #1
767760
310
BR LEVEL 7



* NOTE:
 4K OF LOCAL MEMORY
 1) JUMPER A1B1 TO A19C2
 2) JUMPER A1B2 TO A13L2
 8K OF LOCAL MEMORY
 1) JUMPER A1B1 TO A13L2
 2) JUMPER A1B2 TO A19C2
 12K OF LOCAL MEMORY
 1) JUMPER A1B L1 TO A13 L2
 2) JUMPER A1B L1 TO A18 L2

REV	DATE	BY	CHKD	APP'D
1	1/21/73	R.C. Gray		
2	2/1/73	R.C. Gray		
3	2/1/73	R.C. Gray		

FIRST USED ON OPTION MODEL	QTY	DESCRIPTION	PART NO	ITEM NO
UC15				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES				
DECIMALS	ANGLES	DATE		
xxx - 006	± 0 30	DATE	TITLE	
xx - 02		DATE	INTERFACE	
x - 1		DATE	CABLES	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL				
FINISH				
SCALE		REV		
1 OF 1		D I C DR5-C 03		

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A	M912	M912	M912	M912	M621	M621	M622	M622	M104	M104	M104	M104	M104	M103	M103	M111	M115	M971	M971																																			
B	M912	M912	M912	M912	M510	M510	M510	M510	M510	M216	M216	M216	M216	M112	M113	M161	M971	M971																																				

REV. NO. CHG. NO. DATE BY AUTH.	UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES ANGLES FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	DRN DATE ENG DATE PROJ. ENG DATE PROD DATE NEXT HIGHER ASST	DATE DATE DATE DATE DATE DATE DATE	TITLE MODULE UTILIZATION DR15-C
	MATERIAL FINISH	B-DD-UC15-0 SCALE SHEET 1 OF 1	SIZE CODE D MU DR15-C-39	NUMBER DR15-C-39
	FIRST USED ON OPTION MODEL UC15			

D M DR15-C-09

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

QUANTITY / VARIATION

MADE BY V. SOUZA	CHECKED <i>[Signature]</i>	SECTION 1
DATE 11/17/72	DATE 18 DEC 72	
ENG A. HELENIUS	PROD D. Souza	ISSUED SECT. 1
DATE	DATE 2/5/73	


ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	2											
1	M103	DEVICE SELECTOR	2											
2	M104	I/O BUS MULTIPLEXER	4											
3	M111	INVERTER	1											
4	M112	NOR GATE	1											
5	M113	10-2 INPUT NAND GATES	1											
6	M115	8-3 INPUT NAND GATES	1											
7	M161	BINARY TO OCTAL/DECIMAL DECODER	1											
8	M216	SIX FLIP FLOPS	4											
9	M510	I/O BUS RECEIVER	5											
10	M621	DATA BUS DRIVER	2											
11	M622	BUS DRIVER	2											
12	M912	I/O BUS CONNECTOR CARD	8											
13	M971	CABLE INTERFACE	4											

TITLE MODULE UTILIZATION DR15-C	ASSY NO. D-MU-DR15-C-09	SIZE A PL	CODE PL	NUMBER DR15-C-09	REV. A	ECO NO. UC15F-00003
	SHEET 1 OF 1	DIST.				

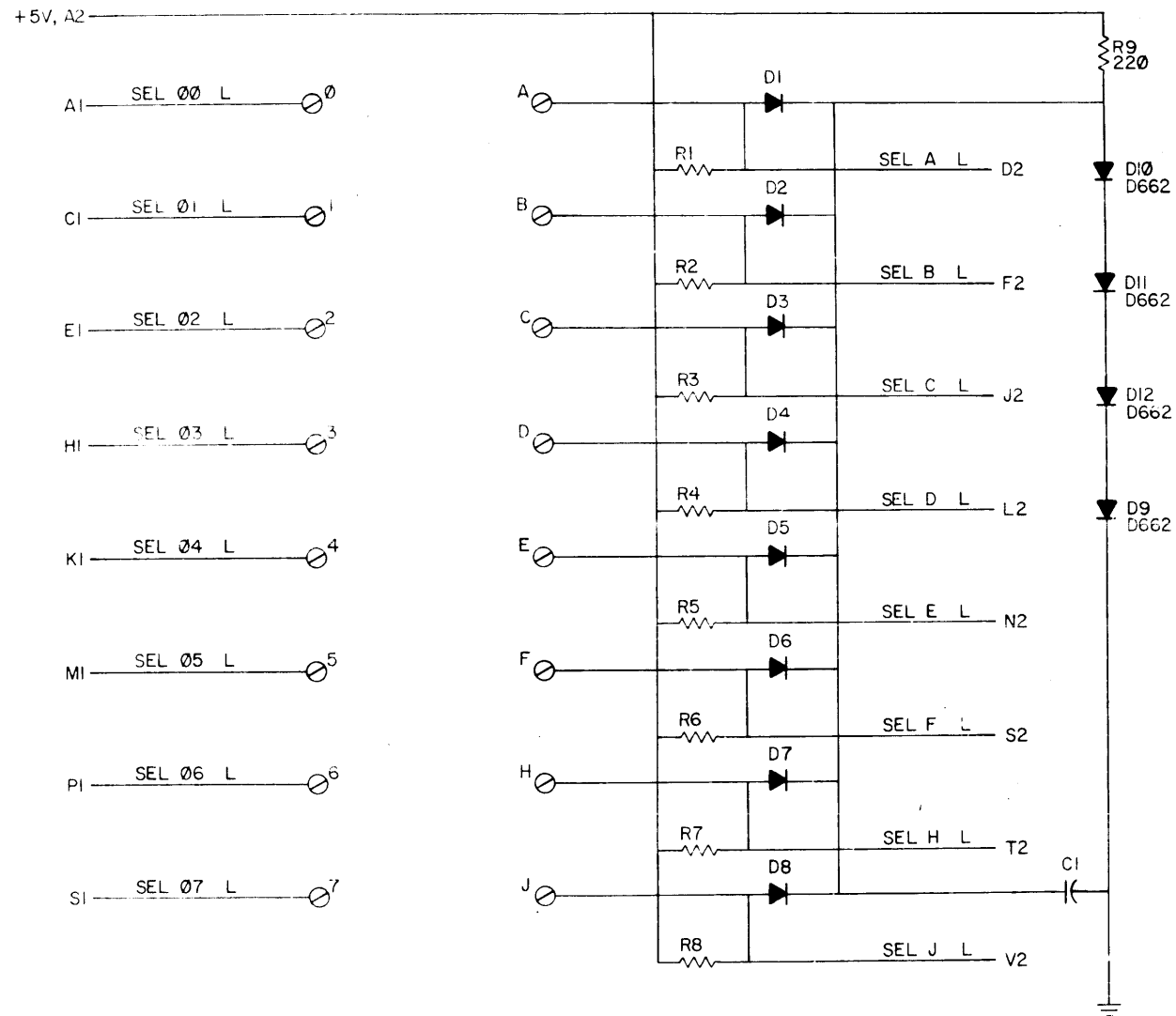
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REV. A
 NUMBER WL - C - WL
 SIZE CODE K WL
 2

REVISIONS	CHANGE NO.	REV.
	UC15F-00003	A
CHK	E. Remond 6-17-74	
	F. DOLL	
	J. P. M. 12-5-74	

FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
UC15				
PARTS LIST				
DRN.	DATE	 DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		
CHK'D	DATE			
ENG.	DATE			
PROJ. ENG.	DATE			
PROD.	DATE			
NEXT HIGHER ASSEMBLY		TITLE <h1 style="text-align: center;">WIRE LIST</h1> <h2 style="text-align: center;">(DR15-C)</h2>		
D-AD-7009166-0-0				
SCALE	++			
SHEET	1	OF	1	
		SIZE CODE	NUMBER	REV.
		K WL	DR15 - C - WL	A
		DIST.		

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UNLESS OTHERWISE INDICATED:
 RESISTORS ARE 10K, 1/4W, 5%
 CAPACITORS ARE .01UF, 100V, 20%
 DIODES ARE D664
 ⊕ = SPLIT LUG
 GND = C2, T1

FORM NO. 10-2
 REVISIONS

DRN jeanne french
 DATE 8/27/70
 CHK'D *Orway*
 DATE 9/11/70
 ENGR *B. Burkner*
 DATE 9/24/70
 PROD *P. H. ...*
 DATE 10/1/70

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D664	IN3606		
D662	IN645		

digital
EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

TITLE DISK SELECTION G740
 SIZE CODE NUMBER REV
 C CS G740-0-1
 PRINTED CIRCUIT REV A

SIZE CODE NUMBER REV
 C CS G740-0-1 EV

DIST. 24,434,435 3 5 PINK

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

QUANTITY / VARIATION

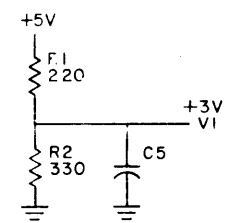
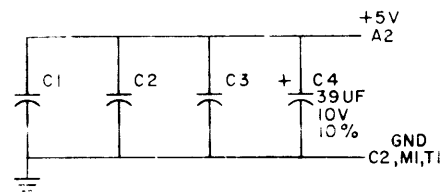
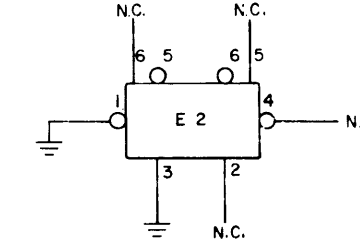
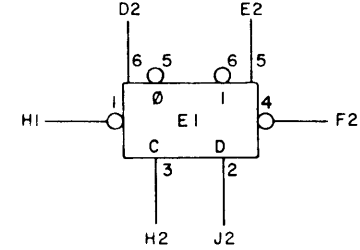
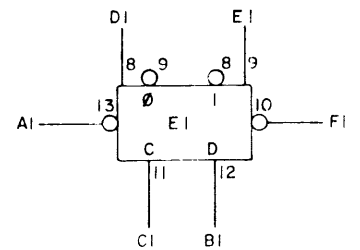
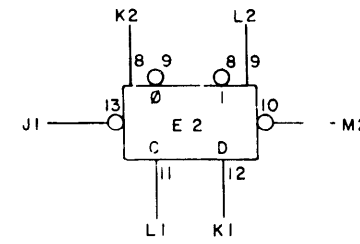
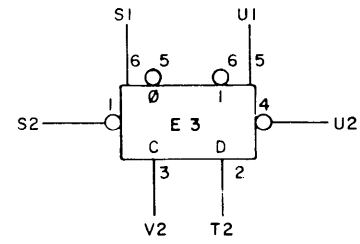
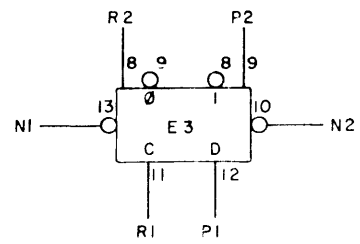
MADE BY <i>S. H. Taylor</i>	CHECKED <i>S. H. Taylor</i>	SECTION
DATE <i>7-4-70</i>	DATE <i>7/22/70</i>	
ENG <i>E. E. Sullivan</i>	PROD <i>J. J. Sullivan</i>	ISSUED SECT.
DATE <i>9/24-70</i>	DATE <i>2/9/71</i>	

ITEM NO	DWG NO. / PART NO.	DESCRIPTION	QUANTITY	VARIATION
	C-CS-G740-0-1	CIRCUIT SCHEMATIC		
	K-CO-G740-0-4	X-Y COORDINATE HOLE LOCATION		
	C-AH-G740-0-5	ASSY/DRILLING HOLE LAYOUT		
	5009114	ETCHED CIRCUIT BOARD	1	
	1001610	CAP. .01UF 100V. 20% DISC	1	
	1100113	DIODE D662	4	
	1100114	DIODE D664	8	
	1202258	HANDLE FLIP CHIP - GREEN	1	
	1300271	RES. 220 $\frac{1}{4}$ W. 5%	1	
	1300479	RES. 10K. $\frac{1}{4}$ W. 5%	8	
	9006731	FEED THRU EYELET	10	
	9006732	EYELET #GS4-7 E. B. STIMPSON	2	
	9006735	SPLIT LUGS	16	

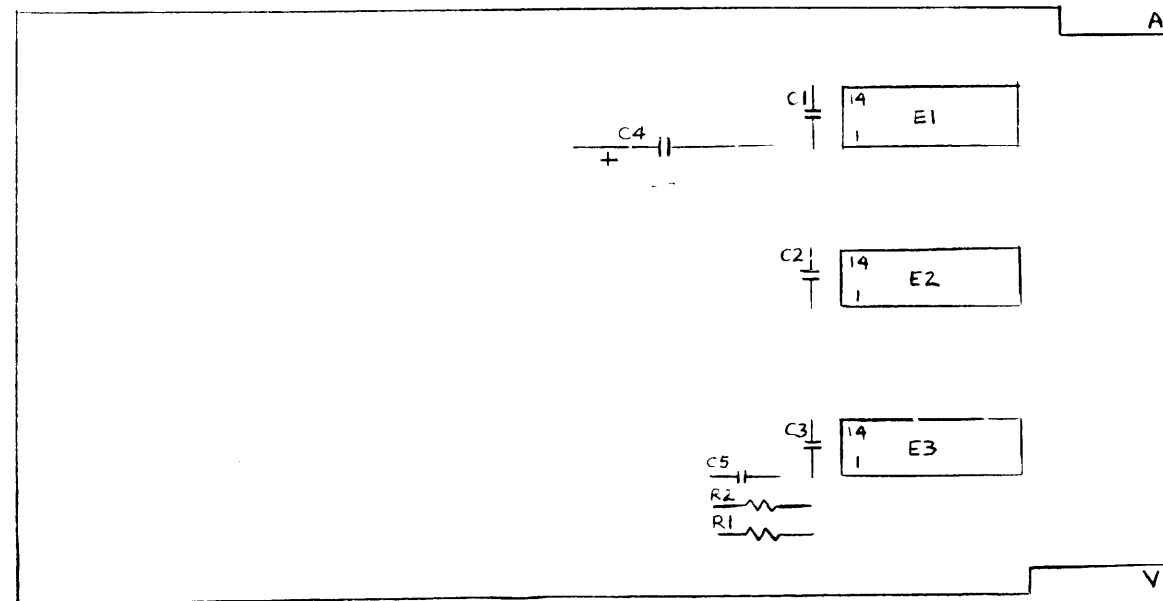
TITLE DISK SELECTION, G740	ASSY NO.	SIZE CODE A PL	NUMBER G740-0-0	REV.	ECO NO.
SHEET 1 OF 1	DIST.	324	434	435	3

PINK 5 PINK

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UNLESS OTHERWISE INDICATED:
 RESISTORS ARE 1/4W, 5%
 CAPACITORS ARE .01UF, 100V, 20%
 IC'S ARE DEC1074H74
 PIN 7= GND
 PIN 14= +5V ON EACH IC



ITEM NO.	DEC PART NO.	DESCRIPTION	REV
11	9008337-06	HANDLE, FLIP CHIP - MAGENTA	1
10	9006732	EYELET #GS 4-7	2
9	1910553	I.C. DEC1074H74	3
8	1300295	RES. 330, 1/4W, 5% CC	1
7	1300271	RES. 220, 1/4W, 5% CC	1
6	1001610	CAP. .01UF, 100V, 20% DISC	4
5	1000076	CAP. 39UF, 10V, 10% S. TANT	1
4	5009357	ETCHED CIRCUIT BOARD	1
3	B-MH-M246-0-6	MODULE ECO HISTORY	
2	C-AH-M246-0-5	ASSY/DRILLING HOLE LAYOUT	
1	K-CO-M246-0-4	X-Y COORDINATE HOLE LOCATION	

PARTS LIST

REV	DESCRIPTION
A	CHG TO REV

DRN	DATE
S. PASTER	12/18/70
CHK'D	DATE
ENG.	DATE
PROD.	DATE

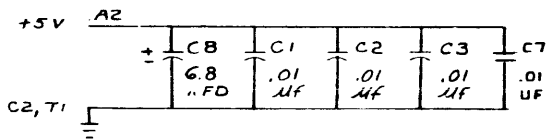
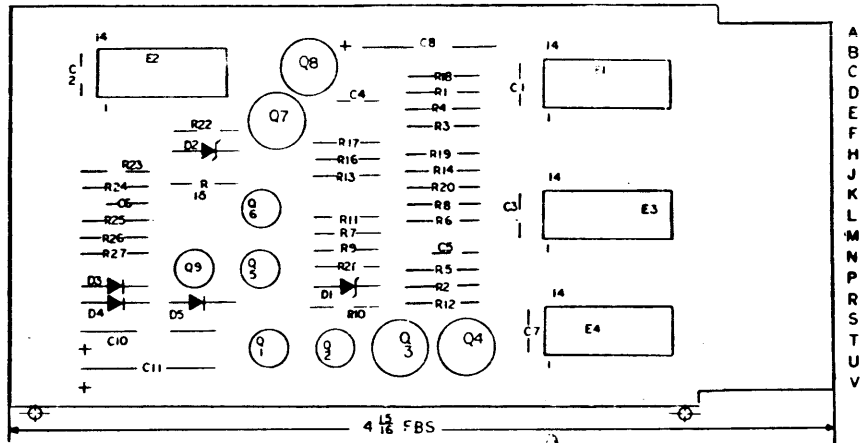
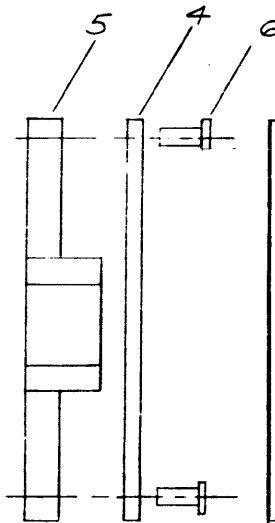
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

TITLE		NUMBER		REV
5D FLIP FLOPS		M246		A
SIZE	CODE	NUMBER	REV	
C	CS	M246-0-	A	
PRINTED CIRCUIT REV				A

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NOTES:



QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
4	Q3, Q4, Q7, Q8	TRANSIPADS	9C27200	32
1	C11	CAP. 10UF 20V 10%	334813	31
1	C10	CAP. 39UF 10V 10%	1000076	29
5	R7, R13, R19, R20, R18, R16	RES. 4.7K 1/4W 5%	1300447	28
2	R23, R24	RES. 1.5K 1/4W 5%	1300391	27
4	R12, R18, R25, R26	RES. 470 1/4W 5%	1300316	26
1	Q9	TRANSISTOR DEC 3009B	1503100	25
3	D3, D4, D5	DIODE D664	1100114	24
1	E2	IC DEC 7404	1910686	23
5	C1, C2, C3, C6, C7	CAP. 0.1UF 100V 20% DIX	1601610	22
1	C8	CAP. 6.8UF 35V 20% TANT	1000067	21
2	C4, C5	CAP. 1000PF 100V 5% MICA	1300048	20
2	D1, D2	DIODE INT50A 4.7V ZENER	1100124	19
4	R8, R11, R14, R17	RES. 10K 1/4 5%	1300472	18
2	R1, R2	RES. 33K 1/4 5%	1300415	17
6	R4, R6, R15, R21, R22	RES. 1K 1/4 5%	1300565	16
3	R3, R5, R27	RES. 100 1/4 5%	1300337	15
4	Q1, Q2, Q5, Q6	TRANS. DEC 6534D	1503927	14
2	Q3, Q7	TRANS. 2N1309	1503011	13
2	Q4, Q8	TRANS. 2N1303	1500593	12
1	E3	IC DEC 7405	1709950	11
2	E1, E4	IC DEC 74H52	1909061	10
2		EYELET	9006733	9
1		HANDLE, FLIP CHIP-MAGENTA	2002000-20	8
1		ETCHED CKT EC	5710000	7
REF		MODULE ECO HISTORY	B-MH-103-04	6
REF		ASSY/DRILLING HOLE LA 31"	D-AH-M686-05	5
REF		X-Y COORDINATE HOLE LOCATION	K-00-M686	4

FIRST USED ON OPTION MODEL PDP 11		ETCH BOARD REV B		DATE 5/10/72		DATE 6/1/72		DATE 6/7/72		DATE 6/8/72	
DEC NO.		EIA NO.		DEC NO.		EIA NO.		SCALE 1:ONE		SHEET 1 OF 2	
SEMICONDUCTOR CONVERSION CHART				TITLE UNIBUS POWER FAIL DRIVERS		SIZE CODE DCSM686-0-1		NUMBER		REV. E	

DESIGNED BY DON VONADA 8-6-74	DATE 8-6-74
CHECKED BY M686-0005 IE	DATE 12-5-73
ENGINEER S. ROTHMAN	DATE 12-5-73
DRAWN BY S. ROTHMAN	DATE 12-5-73
INSTRUMENTED BY S. ROTHMAN	DATE 12-5-73
TESTED BY S. ROTHMAN	DATE 12-5-73
APPROVED BY S. ROTHMAN	DATE 12-5-73
DATE 12-5-73	

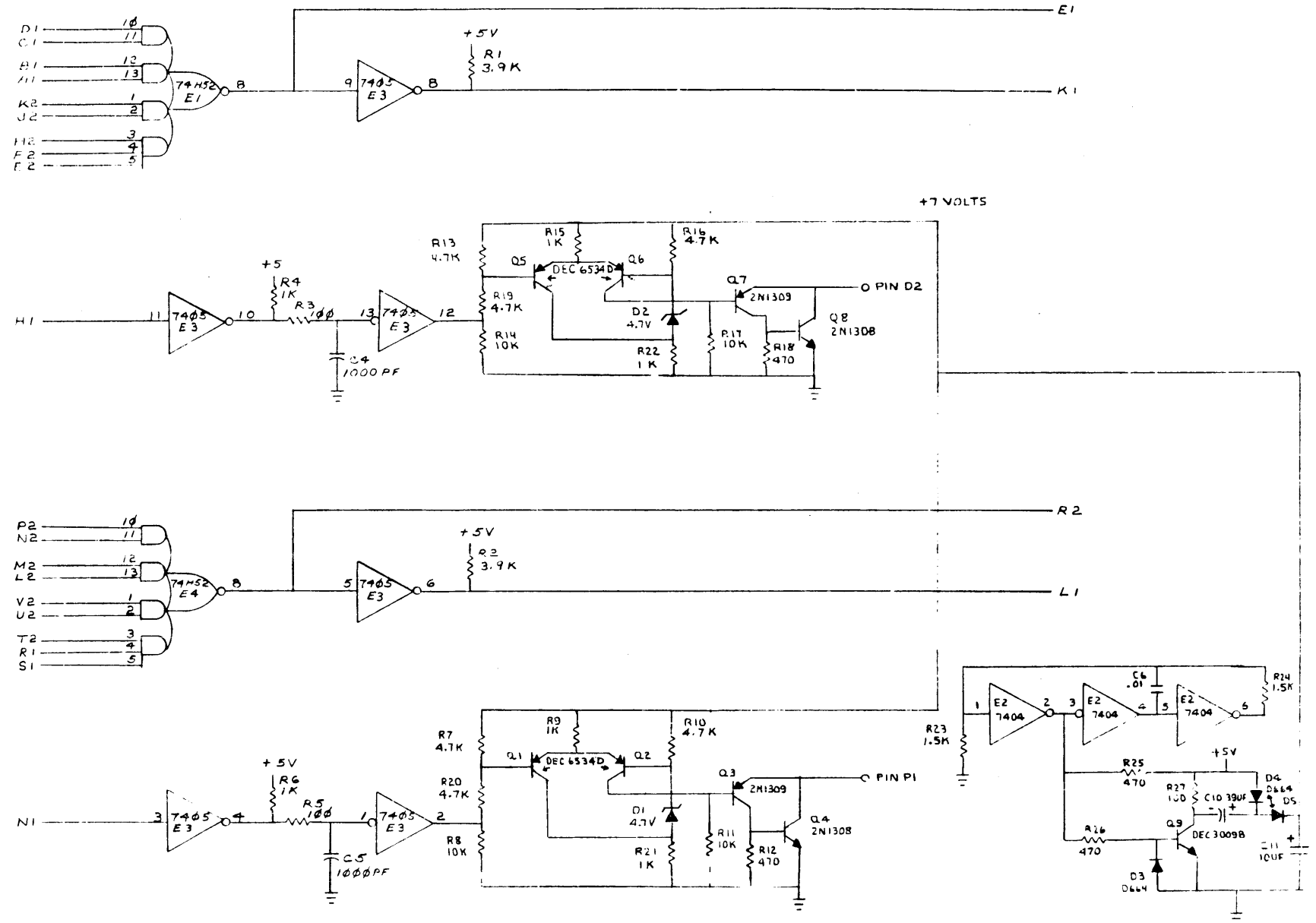
IC TYPE	GND	+5V
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE.		
IC PIN LOCATIONS		

DEC FORM NO. DRC-135A

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED. DIMENSIONS IN PARENTHESES ARE FOR INFORMATION ONLY. DIMENSIONS IN BRACKETS ARE FOR INFORMATION ONLY. DIMENSIONS IN DASHES ARE FOR INFORMATION ONLY. DIMENSIONS IN SLASHES ARE FOR INFORMATION ONLY. DIMENSIONS IN PERCENTS ARE FOR INFORMATION ONLY. DIMENSIONS IN DEGREES ARE FOR INFORMATION ONLY. DIMENSIONS IN ROUNDED NUMBERS ARE FOR INFORMATION ONLY. DIMENSIONS IN SQUARE ROOTS ARE FOR INFORMATION ONLY. DIMENSIONS IN FRACTIONS ARE FOR INFORMATION ONLY. DIMENSIONS IN DECIMALS ARE FOR INFORMATION ONLY. DIMENSIONS IN PERCENTS ARE FOR INFORMATION ONLY. DIMENSIONS IN DEGREES ARE FOR INFORMATION ONLY. DIMENSIONS IN ROUNDED NUMBERS ARE FOR INFORMATION ONLY. DIMENSIONS IN SQUARE ROOTS ARE FOR INFORMATION ONLY. DIMENSIONS IN FRACTIONS ARE FOR INFORMATION ONLY. DIMENSIONS IN DECIMALS ARE FOR INFORMATION ONLY.

D
C
B
A

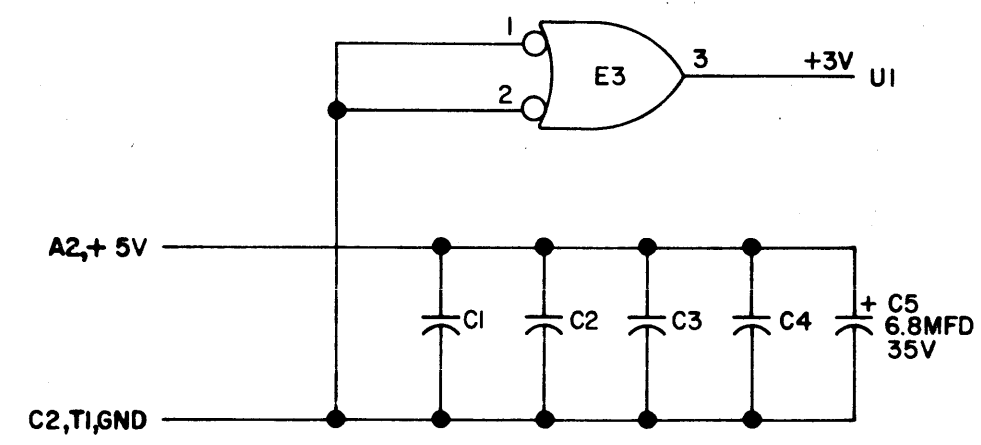
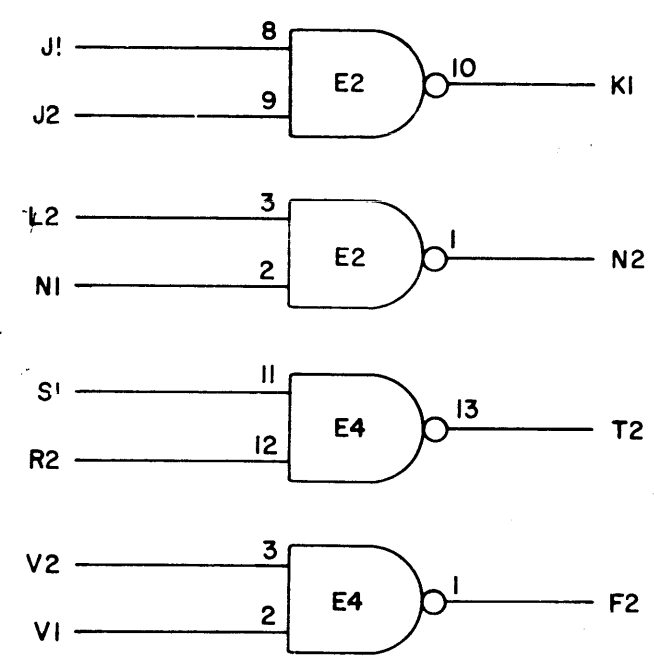
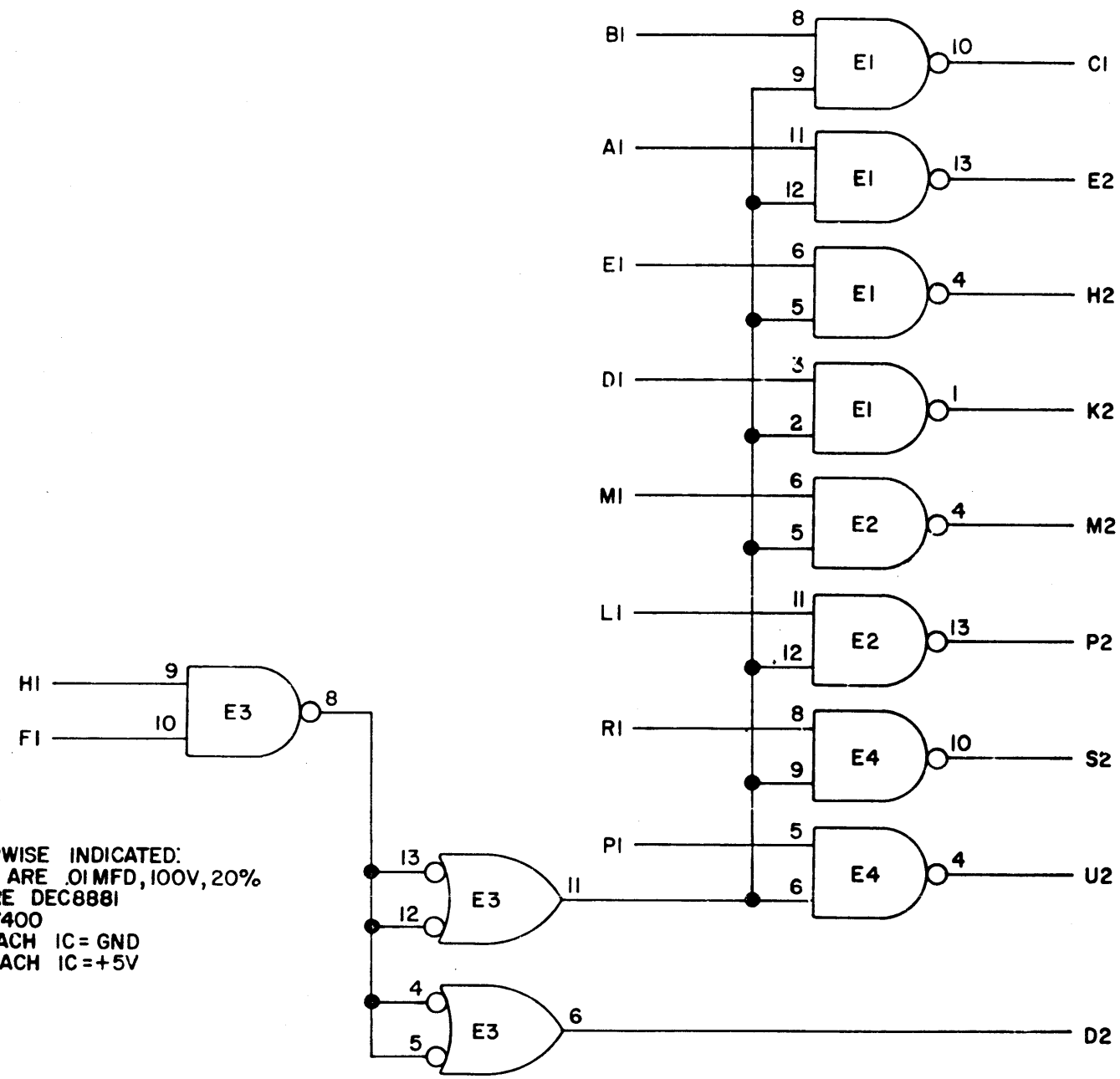
D
C
B
A



FIRST USED ON OPTION MODEL	QTY	DESCRIPTION	PART NO.	ITEM NO.
PDP 11				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES				
DECIMALS	ANGLE	DATE		
XXX - 005	10 30	DATE		
XX - 07		DATE		
X - 1		DATE		
REMOVE BURRS AND BREAK SHARP CORNER'S SURFACE QUALITY		DATE		
MATERIAL	FINISH	SCALE	NUMBER	REV
		SCALE	DCSM683-0-1	E
FINISH	SHEET	OF		
	2	3		

BEARING AT 1/2" DIA

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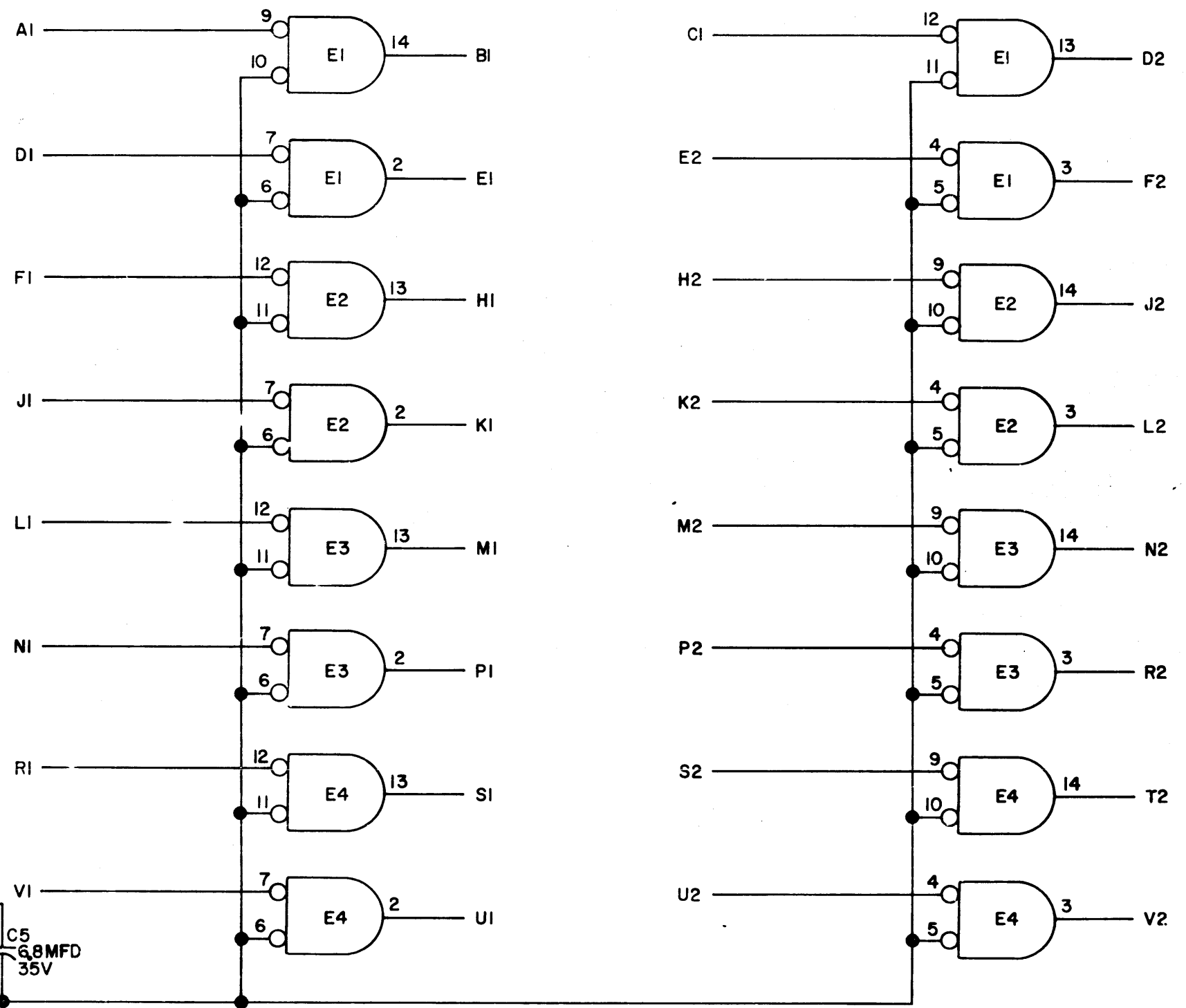


UNLESS OTHERWISE INDICATED:
 CAPACITORS ARE .01MFD, 100V, 20%
 E1, E2, E4 ARE DEC8881
 E3 IS DEC7400
 PIN 7 ON EACH IC = GND
 PIN 14 ON EACH IC = +5V

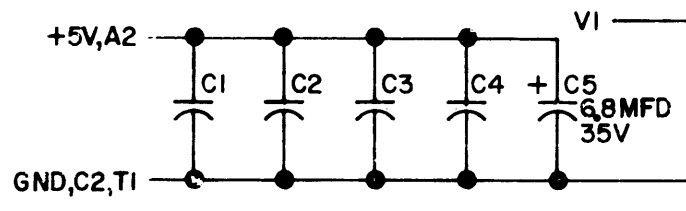
REVISIONS CHK CHG NO REV	DRN <i>A. Riley</i>	DATE 11-21-69	TRANSISTOR & DIODE CONVERSION CHART				EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE UNIBUS DRIVERS M783			
	CHK'D <i>T. Shubert</i>	DATE 1-1-70	DEC	EIA	DEC	EIA		SIZE B	CODE CS	NUMBER M783-0-1	REV.
	ENG <i>E. J. ...</i>	DATE 2/25/70						PRINTED CIRCUIT REV.	A	B	
	PROD.	DATE									

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NOTE:
DEC 8640'S WERE PHASED IN AS 380 REPLACEMENTS. ANY 380 FAILURES SHOULD BE REPLACED BY 8640'S.



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
		00001	A
		00002	B
		00003	C

DRN	DATE
<i>G. M. [Signature]</i>	11-18-69
CHK'D	DATE
<i>[Signature]</i>	1-7-70
ENGR	DATE
<i>[Signature]</i>	3/1/70
PROD.	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC		EIA	



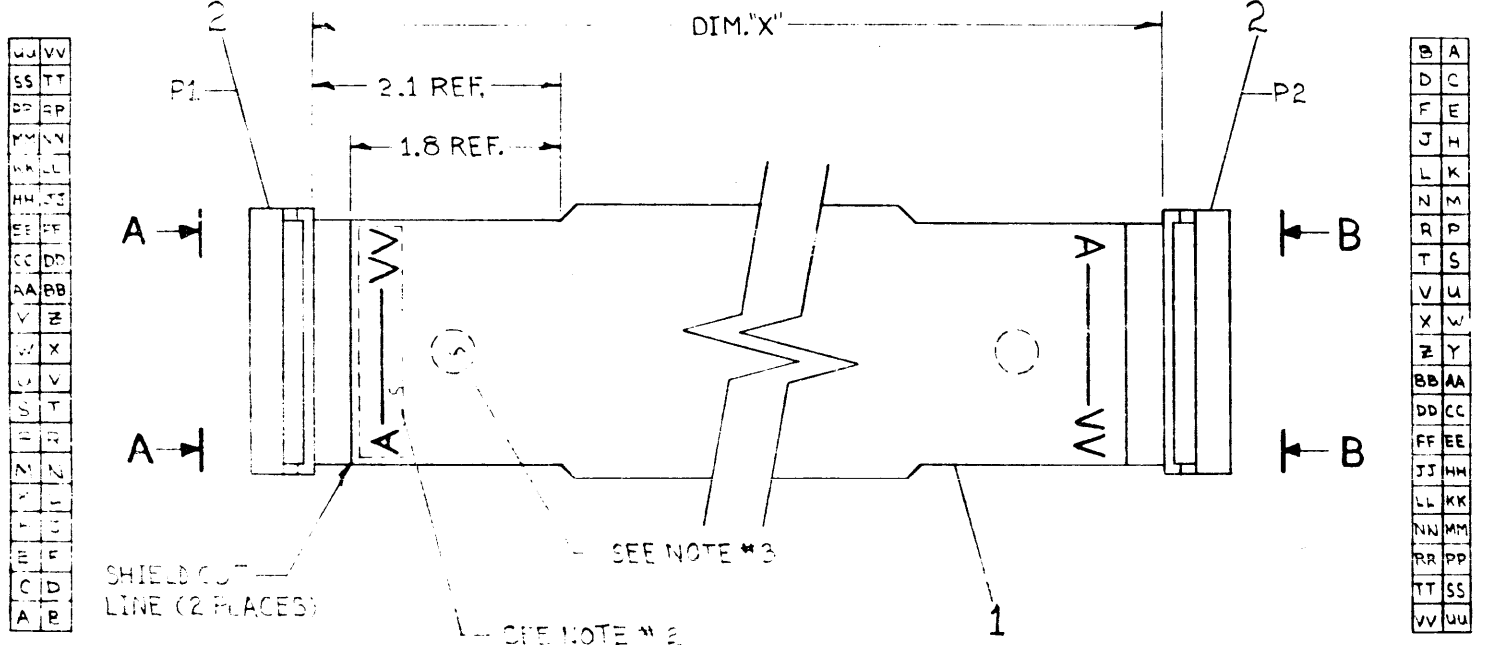
TITLE UNIBUS RECEIVERS M784			
SIZE B	CODE CS	NUMBER M784-0-1	REV C
PRINTED CIRCUIT REV.			A B C

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WIRE TABLE			
FROM	TO	FROM	TO
P1-A	P2-VV	P1-Y	P2-X
P1-B	P2-UT	P1-Z	P2-W
P1-C	P2-TT	P1-AA	P2-V
P1-D	P2-SS	P1-AB	P2-U
P1-E	P2-RR	P1-AC	P2-T
P1-F	P2-QQ	P1-AD	P2-S
P1-G	P2-PP	P1-AE	P2-R
P1-H	P2-OO	P1-AF	P2-Q
P1-I	P2-NN	P1-AG	P2-P
P1-J	P2-MM	P1-AH	P2-O
P1-K	P2-LL	P1-AI	P2-N
P1-L	P2-KK	P1-AJ	P2-M
P1-M	P2-JJ	P1-AK	P2-L
P1-N	P2-II	P1-AL	P2-K
P1-O	P2-HH	P1-AM	P2-J
P1-P	P2-GG	P1-AN	P2-I
P1-Q	P2-FF	P1-AO	P2-H
P1-R	P2-EE	P1-AP	P2-G
P1-S	P2-DD	P1-AQ	P2-F
P1-T	P2-CC	P1-AR	P2-E
P1-U	P2-BB	P1-AS	P2-D
P1-V	P2-AA	P1-AT	P2-C
P1-W	P2-VV	P1-AU	P2-B
P1-X	P2-UT	P1-AV	P2-A

LEGEND		
NUMBER	DIM "X"	PRECUT LENGTH
BCØ8R-Ø1	1FT	1FT 1.5IN±1IN
BCØ8R-Ø2	2FT	2FT 1.5IN±1IN
BCØ8R-Ø3	3FT	3FT 1.5IN±1IN
BCØ8R-Ø4	4FT	4FT 1.5IN±1IN
BCØ8R-Ø6	6FT	6FT 1.5IN±2IN
BCØ8R-Ø8	8FT	8FT 1.5IN±2IN
BCØ8R-1Ø	1ØFT	1ØFT 1.5IN±2IN
BCØ8R-12	12FT	12FT 1.5IN±2IN
BCØ8R-2Ø	2ØFT	2ØFT 1.5IN±3IN
BCØ8R-25	25FT	25FT 1.5IN±3IN
BCØ8R-3Ø	3ØFT	3ØFT 1.5IN±3FT
BCØ8R-5Ø	5ØFT	5ØFT 1.5IN±4FT
BCØ8R-7	Ø7FT	Ø7FT 1.5IN±4.2FT
BCØ8R-75	75FT	75FT 1.5IN±15FT
BCØ8R-AØ	1ØØFT	1ØØFT 1.5IN±2FT
BCØ8R-A3	13ØFT	13ØFT 1.5IN±2ØFT
BCØ8R-AØ	16ØFT	16ØFT 1.5IN±2ØFT

- NOTES:
- ASSEMBLE THIS CABLE PER PROCESS SPEC #7606485-0-0.
 - CONNECTOR LEGEND IDENTIFICATION TO BE PLACED ON SHIELD SIDE OF CABLE IN THIS AREA AS SHOWN.
 - INSPECTION & TEST STAMPS TO BE PLACED AT EACH END OF THE CABLE ASSEMBLY.



VIEW A-A
CONN. LEGEND REF.

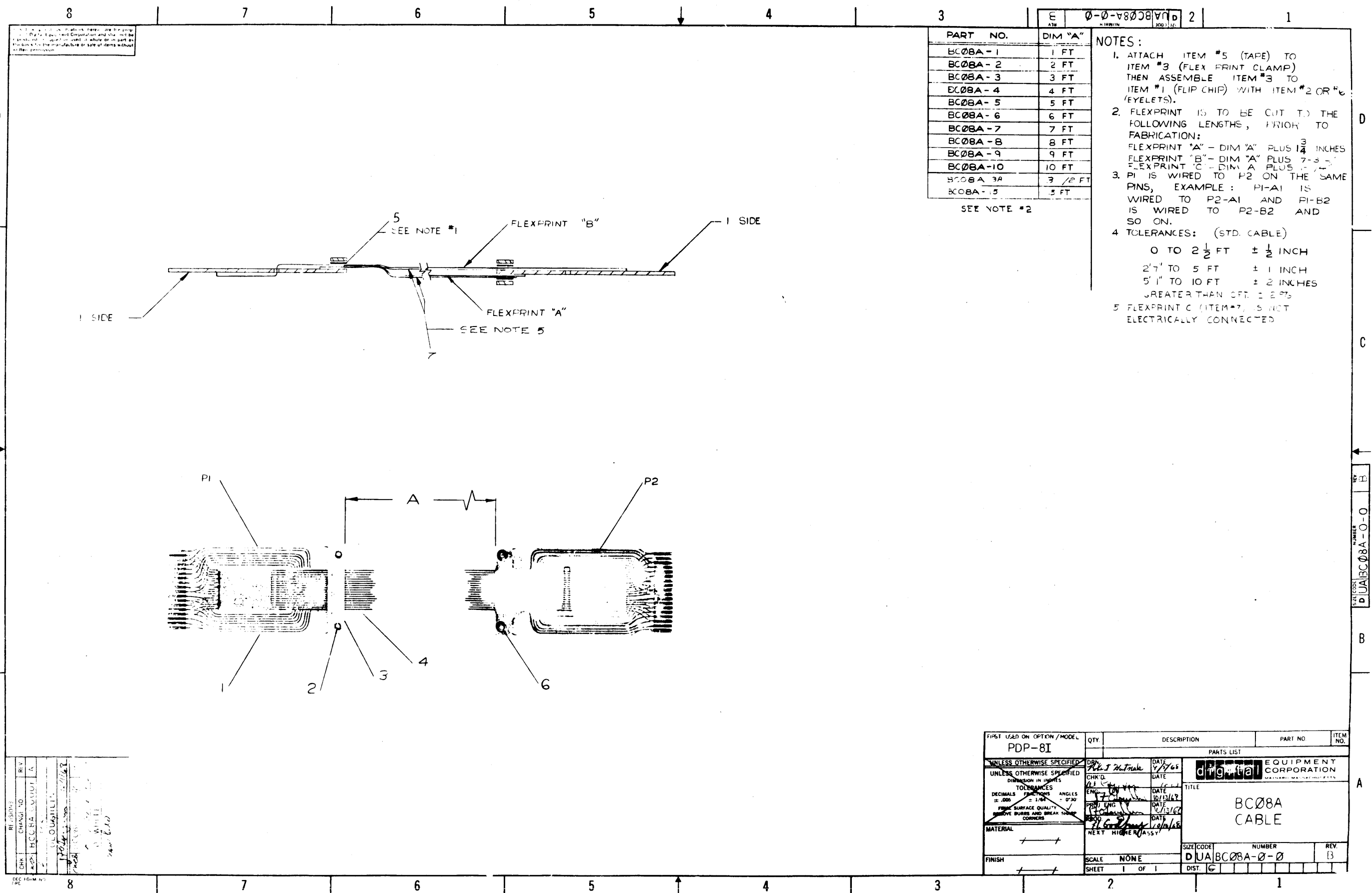
VIEW B-B
CONN. LEGEND REF.

REV	CHANGE NO	REV
J	BCØ8R-00004	J
REVISED & REDRAWN		
P. GARDNER 9-16-73		
P. GARDNER 9-17-73		

QTY.	DESCRIPTION	PART NO.	ITEM NO.
2	CONNECTOR, 40 SOCKET	1211006	2
A/R	CABLE, 40 COND. FLAT W/SHIELD	1700004	1

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

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES		PARTS LIST	
TOLERANCES		DRN. D. FONTAINE	DATE 8-28-70
DECIMALS		CHK'D. J. FLEMING	DATE 8-28-70
.xxx = .005	ANGLES ±0° 30'	ENG. P. GARDNER	DATE 9-3-70
.xx = .02		PROJ. ENG. P. GARDNER	DATE 9-3-70
.x = .1		PROD. DONALD	DATE 9-4-70
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY V		TITLE	
		BCØ8R IO CABLE	
MATERIAL	NEXT HIGHER COSY.	SIZE CODE	NUMBER
FINISH	SCALE NONE	C UA	BCØ8R-0-0
	SHEET 1 OF 1	DIST.	REV. J



1. This drawing is a production drawing. Use the proper dimensions and tolerances. Do not be misled by the word 'approximate' or 'about' or 'in part' or 'the order of' or 'the manufacturer or size of items without the permission of the manufacturer.

PART NO.	DIM "A"
BC08A-1	1 FT
BC08A-2	2 FT
BC08A-3	3 FT
BC08A-4	4 FT
BC08A-5	5 FT
BC08A-6	6 FT
BC08A-7	7 FT
BC08A-8	8 FT
BC08A-9	9 FT
BC08A-10	10 FT
BC08A-3A	3 1/2 FT
BC08A-15	5 FT

SEE NOTE #2

- NOTES:
- ATTACH ITEM #5 (TAPE) TO ITEM #3 (FLEX PRINT CLAMP) THEN ASSEMBLE ITEM #3 TO ITEM #1 (FLIP CHIP) WITH ITEM #2 OR #6 (EYELETS).
 - FLEXPRINT IS TO BE CUT TO THE FOLLOWING LENGTHS, PRIOR TO FABRICATION:
 FLEXPRINT "A" - DIM "A" PLUS 1 3/4 INCHES
 FLEXPRINT "B" - DIM "A" PLUS 7'-5"
 FLEXPRINT "C" - DIM "A" PLUS 1'-10"
 - PI IS WIRED TO P2 ON THE SAME PINS, EXAMPLE: P1-A1 IS WIRED TO P2-A1 AND P1-B2 IS WIRED TO P2-B2 AND SO ON.
 - TOLERANCES: (STD. CABLE)
 0 TO 2 1/2 FT ± 1/2 INCH
 2'7" TO 5 FT ± 1 INCH
 5'1" TO 10 FT ± 2 INCHES
 GREATER THAN 10 FT ± 2 3/4"
 - FLEXPRINT C (ITEM #7), IS NOT ELECTRICALLY CONNECTED

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

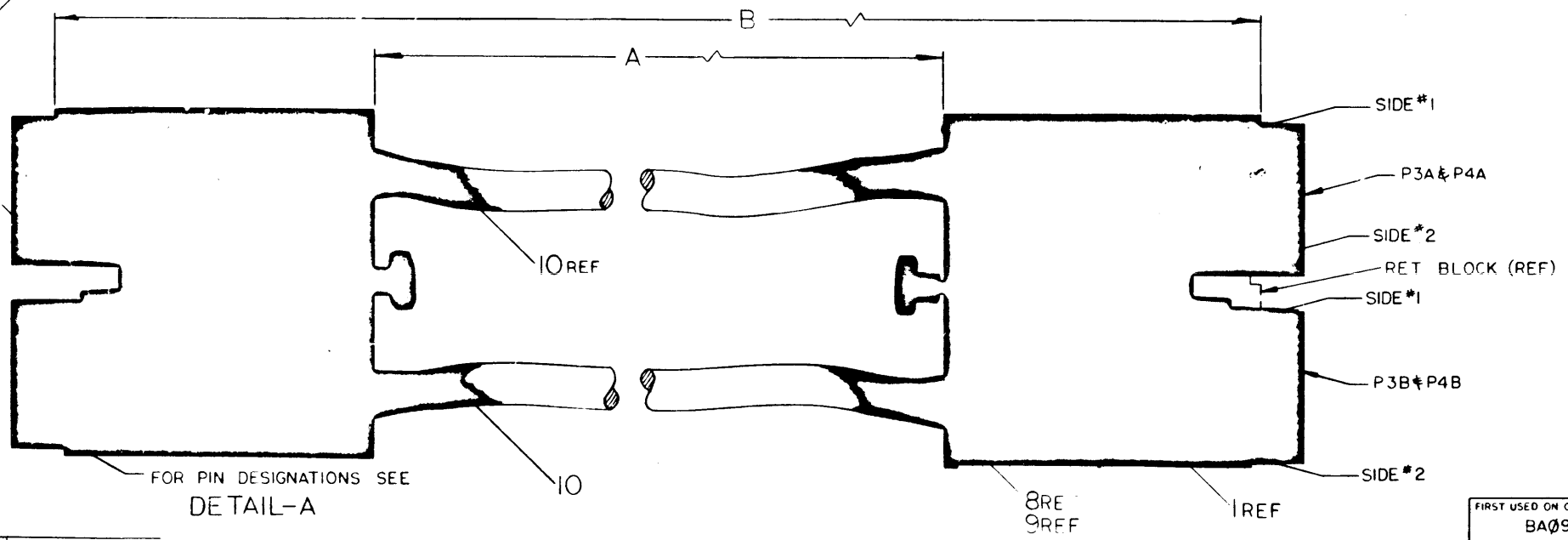
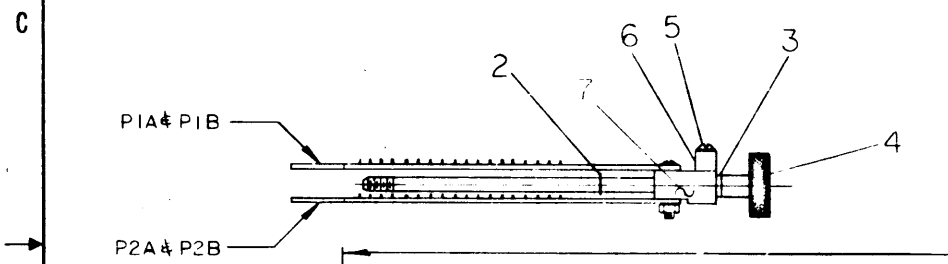
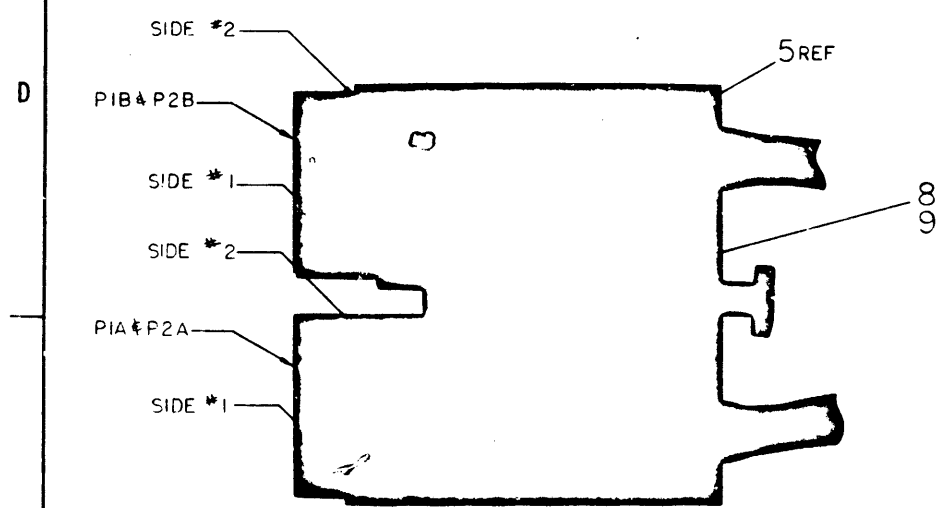
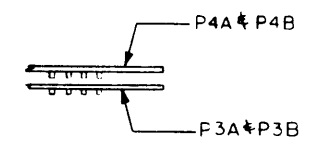
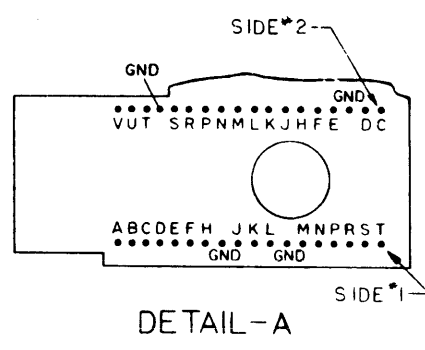
FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO	ITEM NO.
PDP-8I				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRY	DATE	digital EQUIPMENT CORPORATION	
UNLESS OTHERWISE SPECIFIED	CHK'D	DATE	TITLE	
DIMENSION IN INCHES	ENG	DATE	BC08A	
TOLERANCES	PRJ/ENG	DATE	CABLE	
DECIMALS FRACTIONS ANGLES	CHK	DATE	SIZE CODE NUMBER REV	
± .005 ± .010 ± .030			DUA BC08A-0-0 B	
FINISH SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	NEXT HIGHER ASSY		SHEET 1 OF 1	
MATERIAL			DIST. G	
FINISH				

DUA BC08A-0-0

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LEGEND		
NUMBER	VARIATION	
	DIM-A'	DIM-B (PRECUT) REF
BC09B-02	2 FT ± 1/2 IN	2 FT 8 IN ± 1/2 IN
BC09B-03	3 FT ± 1 IN	3 FT 8 IN ± 1 IN
BC09B-04	4 FT ± 1 IN	4 FT 8 IN ± 1 IN
BC09B-05	5 FT ± 1 IN	5 FT 8 IN ± 1 IN
BC09B-07	7 FT ± 2 IN	7 FT 8 IN ± 2 IN
BC09B-10	10 FT ± 2 IN	10 FT 8 IN ± 2 IN
BC09B-12	12 FT ± 3 IN	12 FT 8 IN ± 3 IN
BC09B-15	15 FT ± 4 IN	15 FT 8 IN ± 4 IN
BC09B-25	25 FT ± 6 IN	25 FT 8 IN ± 6 IN
BC09B-50	50 FT ± 1 FT	50 FT 8 IN ± 1 FT
BC09B-100	100 FT ± 2 FT	100 FT 8 IN ± 2 FT

NOTES:
1. CUT DRAIN SHIELDS, DRAIN WIRES AND OUTER INSULATION AT THE SAME POINT.



FOR PIN DESIGNATIONS SEE
DETAIL-A

A/R	CABLE P/N	61010-6	9107599	10
8	NUT KEPS	4-40 SST	9006557	9
8	SCR PHL H PAN	#4-40 X 3/4 LG SST	9006015-1	8
2	MODULE HOLDER		D-SC-1209377-1-0	7
2	CABLE CLAMP		B-MD-7405639-0-C	6
8	SCR PHL H PAN	#6-32 X 1/2 LG SST SELF TAPPING	9008181	5
2	SCR MODULE RET		C-MD-7405642-0-0	4
2	WASH	3/8 X 1/4 X 1/32 NYLON	9006712	3
2	RET RING	5133-18 WALDES	9007913	2
4	ETCH BOARD ASSY		M912	1

FIRST USED ON OPT/MOD. BA09		QTY.		DESCRIPTION		PART NO.		ITEM NO.	
UNLESS OTHERWISE SPECIFIED									
DIMENSION IN INCHES									
TOLERANCES									
DECIMALS FRACTIONS ANGLES									
± .005 ± .001 ± 0°30'									
FINISH SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS									
MATERIAL		FINST USED ON		DATE		DATE		DATE	
FINISH		DATE		DATE		DATE		DATE	
SCALE		SHEET		OF		2		2	
DIST.		REV.		REV.		REV.		REV.	
DUA		BC09B-0-0		REV.		REV.		REV.	

REV	DATE	BY	CHK	CHANGE NO.
1	3/5/69	ELIA-SHAOUL	ELIA-SHAOUL	1
2	3/7/69	ELIA-SHAOUL	ELIA-SHAOUL	2
3	4/10/69	ELIA-SHAOUL	ELIA-SHAOUL	3
4	4/15/69	ANTONUCCIO	ANTONUCCIO	4

PIA-SIDE #2 TO P3A-SIDE #2		PIA-SIDE #1 TO P3A-SIDE #1		PIB-SIDE #2 TO P3B-SIDE #2		PIB-SIDE #1 TO P3B-SIDE #1													
ITEM NO.	DESCRIPTION	CONNECTIONS	REMARKS	ITEM NO.	DESCRIPTION	CONNECTIONS	REMARKS												
NO.	AWG	COLOR	FROM	TO	NO.	AWG	COLOR	FROM	TO	NO.	AWG	COLOR	FROM	TO	NO.	AWG	COLOR	FROM	TO
13	24	GRN/WHT	PIA-C2	P3A-C2	13	24	BRN	PIA-A1	P3A-A1	13	24	GRN/WHT	PIB-C2	P3B-C2	13	24	BRN	PIB-A1	P3B-A1
		WHT	D2	D2			YEL	B1	B1			WHT	D2	D2			YEL	B1	B1
		BRN/WHT	GND2	GND2			SLA	C1	C1			BRN/WHT	GND2	GND2			SLA	C1	C1
		WHT	E2	E2			YEL	D1	D1			WHT	E2	E2			YEL	D1	D1
		SLA/WHT	F2	F2			PUR	E1	E1			SLA/WHT	F2	F2			PUR	E1	E1
		WHT	H2	H2			BLU	F1	F1			WHT	H2	H2			BLU	F1	F1
		BLU/WHT	J2	J2			PUR	H1	H1			BLU/WHT	J2	J2			PUR	H1	H1
		RED	K2	K2			ORN	GND1	GND1			RED	K2	K2			ORN	GND1	GND1
		ORN/WHT	L2	L2			PUR	J1	J1			ORN/WHT	L2	L2			PUR	J1	J1
		RED	M2	M2			GRN	K1	K1			RED	M2	M2			GRN	K1	K1
		GRN/WHT	N2	N2			PUR	L1	L1			GRN/WHT	N2	N2			PUR	L1	L1
		RED	P2	P2			BRN	GND1	GND1			RED	P2	P2			BRN	GND1	GND1
		BRN/WHT	R2	R2			PUR	M1	M1			BRN/WHT	R2	R2			PUR	M1	M1
		RED	S2	S2			SLA	N1	N1			RED	S2	S2			SLA	N1	N1
		SLA/WHT	GND2	GND2			WHT	P1	P1			SLA/WHT	GND2	GND2			WHT	P1	P1
		RED	T2	T2			BLU/WHT	R1	R1			RED	T2	T2			BLU/WHT	R1	R1
		BLU/WHT	U2	U2			WHT	S1	S1			BLU/WHT	U2	U2			WHT	S1	S1
13	24	BLK	PIA-V2	P3A-V2			ORN/WHT	PIA-T1	P3A-T1			BLK	PIB-V2	P3B-V2			ORN/WHT	PIB-T1	P3B-T1

P2A-SIDE #2 TO P4A-SIDE #2		P2A-SIDE #1 TO P4A-SIDE #1		P2B-SIDE #2 TO P4B-SIDE #2		P2B-SIDE #1 TO P4B-SIDE #1													
ITEM NO.	DESCRIPTION	CONNECTIONS	REMARKS	ITEM NO.	DESCRIPTION	CONNECTIONS	REMARKS												
NO.	AWG	COLOR	FROM	TO	NO.	AWG	COLOR	FROM	TO	NO.	AWG	COLOR	FROM	TO	NO.	AWG	COLOR	FROM	TO
13	24	SLA	P2A-C2	P4A-C2	13	24	BLU	P2A-A1	P4A-A1	13	24	SLA	P2B-C2	P4B-C2	13	24	BLU	P2B-A1	P4B-A1
		RED	D2	D2			WHT	B1	B1			RED	D2	D2			WHT	B1	B1
		BLU	GND2	GND2			ORN	C1	C1			BLU	GND2	GND2			ORN	C1	C1
		BLK	E2	E2			WHT	D1	D1			BLK	E2	E2			WHT	D1	D1
		ORN	F2	F2			WHT	E1	E1			ORN	F2	F2			WHT	E1	E1
		BLK	H2	H2			GRN	F1	F1			BLK	H2	H2			GRN	F1	F1
		GRN	J2	J2			WHT	H1	H1			GRN	J2	J2			WHT	H1	H1
		BLK	K2	K2			BRN	GND1	GND1			BLK	K2	K2			BRN	GND1	GND1
		BRN	L2	L2			WHT	J1	J1			BRN	L2	L2			WHT	J1	J1
		BLK	M2	M2			SLA	K1	K1			BLK	M2	M2			SLA	K1	K1
		SLA	N2	N2			RED	L1	L1			SLA	N2	N2			RED	L1	L1
		BLK	P2	P2			BLU	GND1	GND1			BLK	P2	P2			BLU	GND1	GND1
		BLU	R2	R2			RED	M1	M1			BLU	R2	R2			RED	M1	M1
		YEL	S2	S2			ORN	N1	N1			YEL	S2	S2			ORN	N1	N1
		ORN	GND2	GND2			RED	P1	P1			ORN	GND2	GND2			RED	P1	P1
		YEL	T2	T2			GRN	R1	R1			YEL	T2	T2			GRN	R1	R1
		GRN	U2	U2			RED	S1	S1			GRN	U2	U2			RED	S1	S1
13	24	YEL	P2A-V2	P4A-V2			BRN	P2A-T1	P4A-T1			YEL	P2B-V2	P4B-V2			BRN	P2B-T1	P4B-T1

WIRE TABLE

FIRST USED ON OPTION/MODEL BA09	QTY.	DESCRIPTION	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED	DRN	DATE	PARTS LIST	
UNLESS OTHERWISE SPECIFIED	CHK'D	DATE	EQUIPMENT CORPORATION	
TOLERANCES	ENG	DATE	TITLE	
DECIMALS FRACTIONS ANGLES	PRGJ. ENG	DATE	BC09B	
± .005 ± .125 ± .030	REMOVE BURRS AND BREAK SHARP CORNERS	DATE	CABLE ASSY	
MATERIAL	NEXT HIGHER ASSY	DATE	REVISION	
FINISH	SCALE	DATE	NUMBER	
	SHEET 2 OF 2	DATE	DIS.	

REVISION NO. 1
CHANGE NO. 1

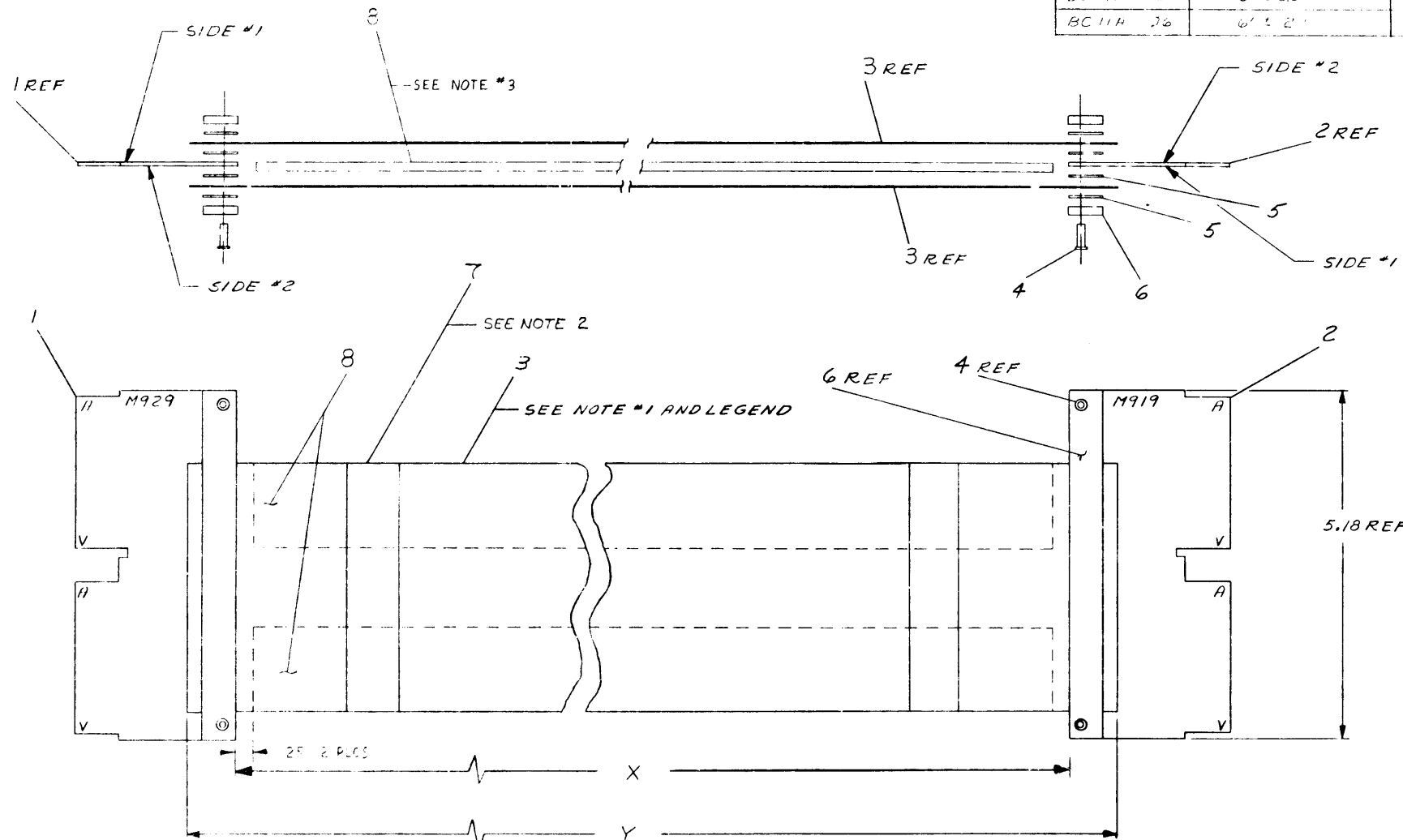
DIA BC09B-0-0

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LEGEND		
NUMBER	DIM "X" VARIATION	DIM "Y" (PRECUT) REF
BC11A - 22	2' ± 5"	2'1.5"
BC11A - 23	3' ± 1"	3'1.5"
BC11A - 24	4' ± 1"	4'1.5"
BC11A - 25	5' ± 1"	5'1.5"
BC11A - 26	6' ± 2"	6'1.5"
BC11A - 27	7' ± 2"	7'1.5"
BC11A - 28	8' ± 2"	8'1.5"
BC11A - 29	9' ± 2"	9'1.5"
BC11A - 30	10' ± 2"	10'1.5"
BC11A - 31	15' ± 3"	15'1.5"
BC11A - 32	25' ± 3"	25'1.5"
BC11A - 33	6" ± 0.5"	1.5"
BC11A - 34	6" ± 2"	2'1.5"

NOTES:

- 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 A WILL BE 2% OF THE FOOT INCREMENT.
- FLEXPRINTS TO BE BOUND TOGETHER BY WRAPPING WITH BLACK ELECTRICAL TAPE (ITEM 7) EVERY 18 INCHES.
- INSTALL 2 PICES OF FOAM TAPE (ITEM 8) BETWEEN FLEX PRINT CABLES AS SHOWN.



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

FIRST USED ON OPTION/MODEL PDPII	DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES DECIMALS FRACTIONS ANGLES ±.005 ±.1/64 ±.030 FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	MATERIAL + +	FINISH + +
-------------------------------------	---	-----------------	---------------

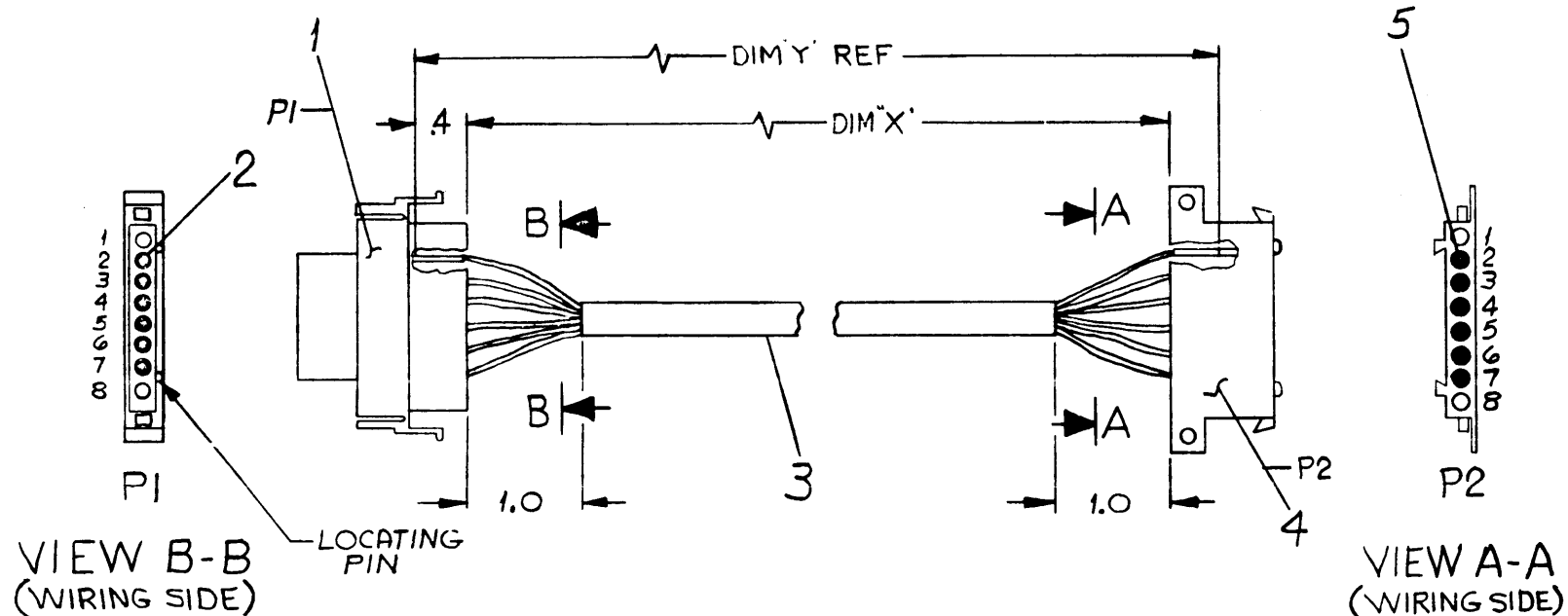
QTY.	DESCRIPTION	PART NO.	ITEM NO.
3	A/R GRAY FOAM	9003091	3
7	A/R BLK ELECTRICAL TAPE	3003260	7
6	4 CLAMP CABLE	C-3-1209764-001	6
5	A/R TAPE #4032 1/2WX3 1/4X16L6	4007934	5
4	4 EYELET 6'-9-11" DIA	4007250	4
3	2 CABLE FLEXPRINT	60075-01	3
2	1 EXT. BUS CONN	A-PL-M919-0-0	2
1	1 BUS CONN	A-PL-M921-0-0	1

DRW: [Signature]	DATE: 4/4/69	
CHKD: [Signature]	DATE: 4/13/69	
ENR: [Signature]	DATE: 4/13/69	TITLE
PROJ. ENG: [Signature]	DATE: 4/13/69	CABLE ASSY (BC11A)
PROD: [Signature]	DATE: 4/13/69	SIZE CODE
NEXT HIGHER ASSY	D-UA-11/20-0-0	NUMBER
SCALE	1/1	DUA BC11A-0-0
SHEET	OF 1	REV
		1

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LEGEND		
NUMBER	DIM X' VARIATION	DIM Y' (PRECUT) REF
BCØIS-Ø3	3 FT ± 1 IN	3 FT 1 IN ± 1 IN
↑ -Ø6	6 FT ± 2 IN	6 FT 1 IN ± 2 IN
↑ -1Ø	10 FT ± 2 IN	10 FT 1 IN ± 2 IN
↑ -15	15 FT ± 3 IN	15 FT 1 IN ± 3 IN
↑ -25	25 FT ± 3 IN	25 FT 1 IN ± 3 IN
↓ -5Ø	50 FT ± 12 IN	50 FT 1 IN ± 12 IN
BCØIS-AØ	100 FT ± 24 IN	100 FT 1 IN ± 24 IN

WIRE TABLE						
ITEM NO	DESCRIPTION		FROM		TO	
	AWG	COLOR	CONN	WITH	CONN	WITH
3	18	BLK	PI-2	ITEM*2	P2-2	ITEM*5
	↑	RED	PI-3	↑	P2-3	↑
	↑	BLU	PI-4	↑	P2-4	↑
	↑	WHT	PI-5	↑	P2-5	↑
	↓	CRN	PI-6	↓	P2-6	↓
	↓	GRN	PI-7	↓	P2-7	↓
	18	GRN	PI-7	ITEM*2	P2-7	ITEM*5



QTY.	DESCRIPTION	PART NO.	ITEM NO.
6	CONN SOCKET MATE-N-LOK	1209379-01	5
1	CONN HSG, MATE-N-LOK	1209340-00	4
A/R	CABLE, 6 CONDUCTOR	17000/2	3
6	CONN PIN, MATE-N-LOK	1209378-01	2
1	CONN HSG, MATE-N-LOK (MALE)	1209340-01	1

FIRST USED ON OPTION/MODEL UC15		PARTS LIST	
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES	DRN. <i>[Signature]</i> DATE 11/10/72	 DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
DECIMALS .XXX = .005 .XX = .02 .X = .1	CHKD. <i>[Signature]</i> DATE 5/26/72		
ANGLES ±0° 30'	ENG. <i>[Signature]</i> DATE 1/5/73	TITLE CABLE INTERFACE BCØIS	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓	PROJ. ENG. <i>[Signature]</i> DATE 11/2/73		
MATERIAL	PROD. <i>[Signature]</i> DATE 11/1/73	NEXT HIGHER ASSY.	
FINISH		SCALE	SIZE CODE NUMBER REV
		SHEET 1 OF 1	C UA BCØIS-Ø-Ø

REV.	CHANGE NO.

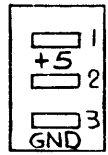
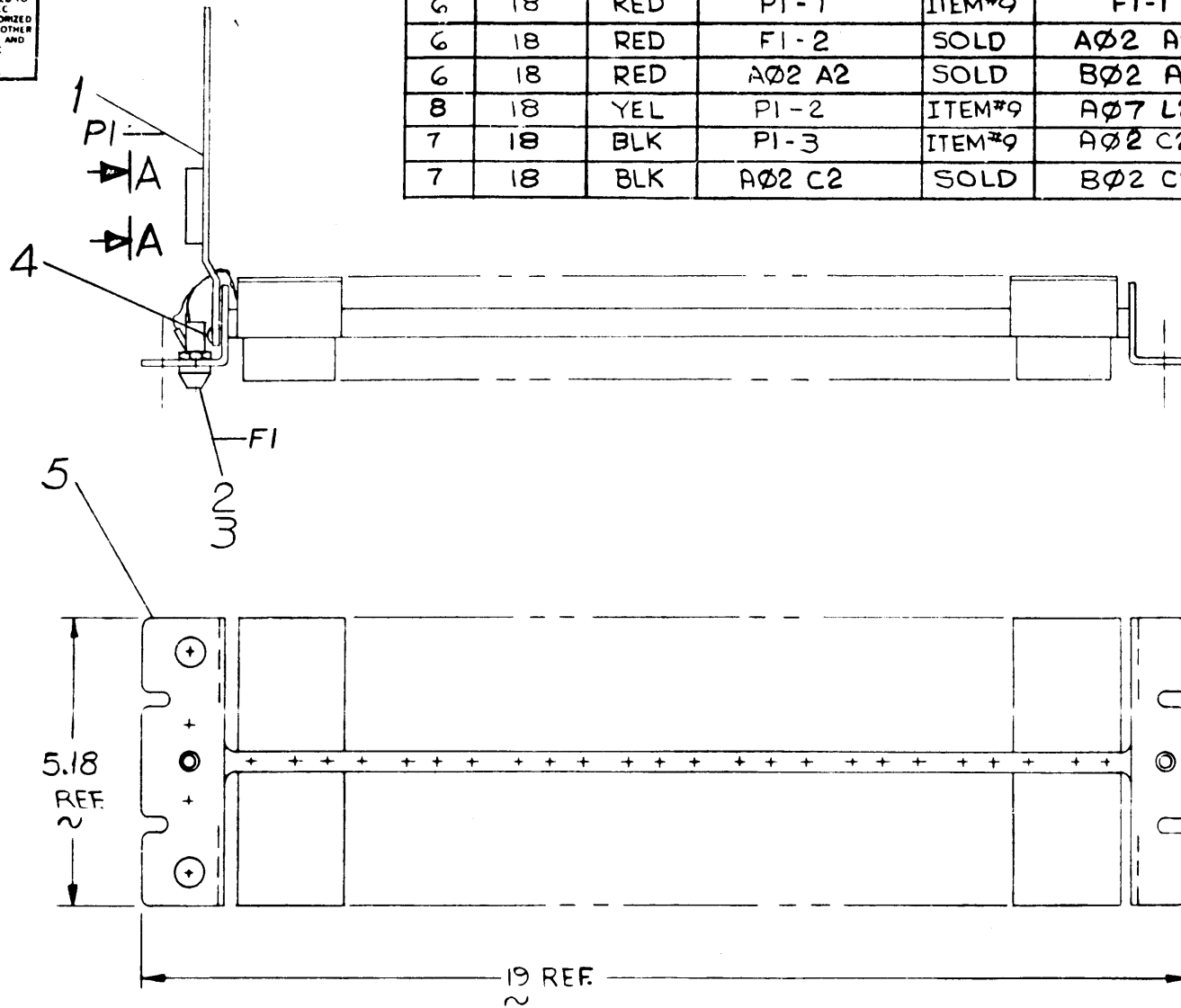
BRUNING 40 107 15568

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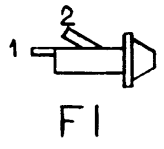
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OCTOBER 1972

WIRE TABLE

ITEM NO.	DESCRIPTION		FROM		TO	
	AWG	COLOR	CONNECTION	WITH	CONNECTION	WITH
6	18	RED	PI-1	ITEM#9	F1-1	SOLD
6	18	RED	F1-2	SOLD	AØ2 A2	SOLD
6	18	RED	AØ2 A2	SOLD	BØ2 A2	SOLD
8	18	YEL	PI-2	ITEM#9	AØ7 L2	SOLD
7	18	BLK	PI-3	ITEM#9	AØ2 C2	SOLD
7	18	BLK	AØ2 C2	SOLD	BØ2 C2	SOLD



PI
VIEW A-A



QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	MODULE UTILIZATION (PL)	A-PL-MX15-B-09	11
14	MODULE HOLDER	1209856-02	10
3	SOLDERLESS CONN	9007917	9
A/R	#18 AWG WIRE IPVC STRD (YEL)	9107360-44	8
A/R	#18 AWG WIRE IPVC STRD (BLK)	9107360-00	7
A/R	#18 AWG WIRE IPVC STRD (RED)	9107360-22	6
1	WIRED ASSY (MX15-B)	D-AD-7009165-0-0	5
4	POP RIVET	9006460	4
1	FUSE 5 AMP	9007222	3
1	FUSE POST	9006994	2
1	POWER END PANEL ASSY	CIA-5408739-1-0	1

FIRST USED ON OPTION/MODEL UC15	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN <i>[Signature]</i> DATE 10/10/72	DATE 5 DEC 72		
DECIMALS	ANGLES	ENG. <i>[Signature]</i> DATE 1/31/73	TITLE LOGIC ASSY (MX15-B)	
.XXX = .005 .XX = .02 .X = .1	± 0° 30'	PROJ. ENG. <i>[Signature]</i> DATE 1/31/73		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓	PROD. <i>[Signature]</i> DATE 2/5/73			
MATERIAL	NEXT HIGHER ASSY.			
FINISH	D-UA-UC15-0-Ø	SCALE	SIZE CODE C AD	NUMBER 7009164-0-0
	SHEET 1 OF 1	DIST		REV A

BRUNING 40-107 15368

REV.	CHANGE NO.	DATE	BY
A	UC15F-0003A	6-17-72	F. DOLL
	E. REARDON		

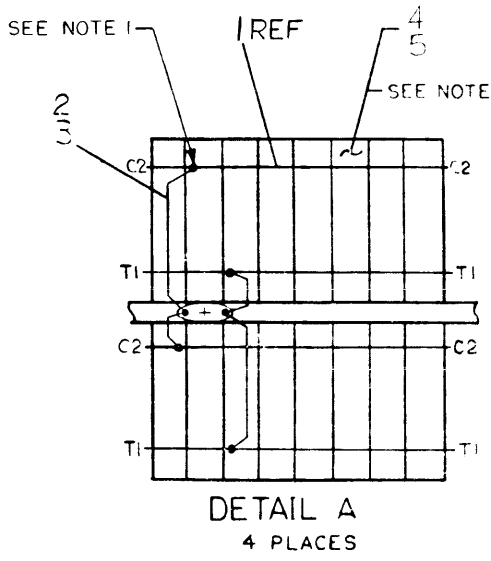
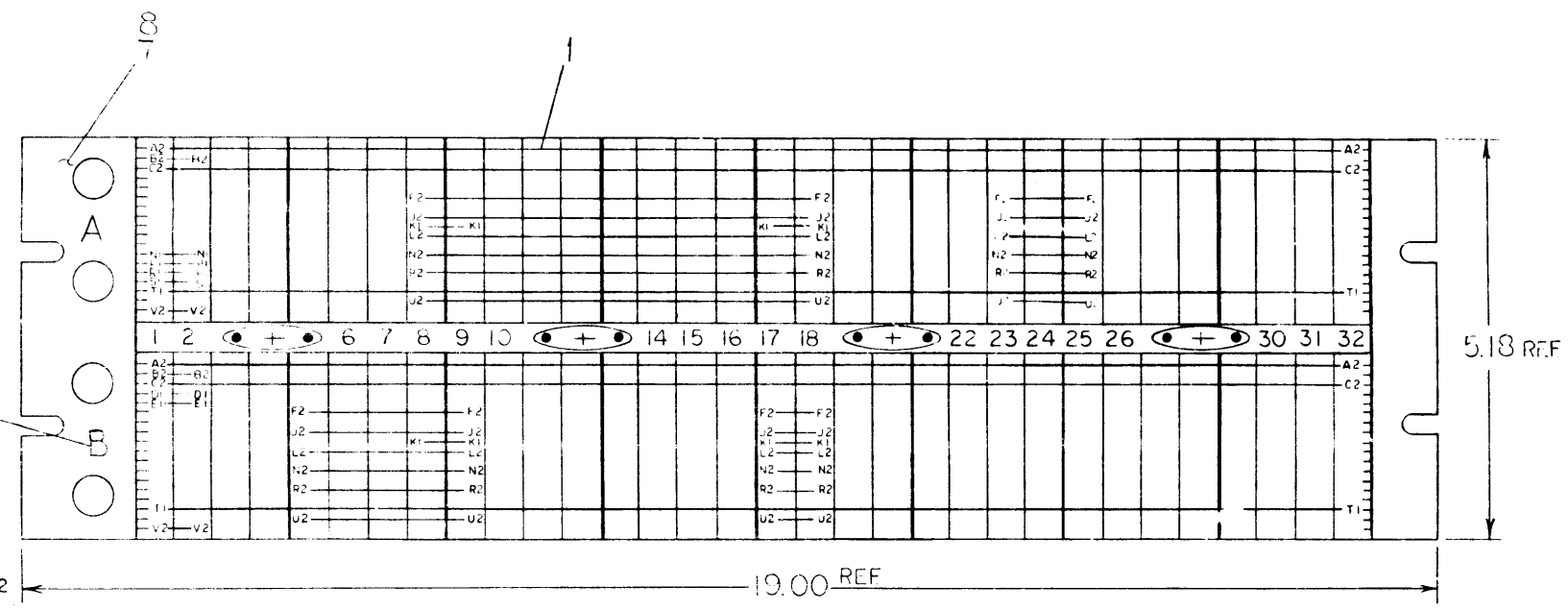
REV A
NUMBER C AD 7009164-0-0
SIZE CODE B

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OCTOBER 1972

- NOTES:
1. CONNECTIONS ON ITEMS 2, 3 TO BE LOCATED AT MINIMUM PRACTICAL HEIGHT ABOVE BLOCKS.
 2. USE YELLOW WIRE (ITEM "4") FOR MACHINE WRAPPED AND BLUE WIRE (ITEM "5") FOR HAND WRAPPED.



REF	WIRE LIST	MX15-B	K-WL-MX15-B-	8
1	H911 MTG PANEL		D-AD-540449-0-0	7
A/R	LOGIC FRAME DECALS		A-DC-7403371-0-0	6
A/R	#30 AWG KYNAR INS WIRE (BLU)		9105740-66	5
A/R	#30 AWG KYNAR INS WIRE (YEL)		9105740-44	4
A/R	#22 TUBING, TEFLON WHT		9107265-09	3
A/R	#22 BUS WIRE		9107560-01	2
A/R	BUS STRIP		1205541	1

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO	ITEM NO
UC15				

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DATE	DATE	DATE	DATE	TITLE
DECIMALS	ANGLES	10/1/72	10/1/72	10/1/72	10/1/72	WIRED ASS'Y. (MX15-B)
XXX - 006	±0° 30'	CHK	ENG	PROJ. ENG	BROD	
XY - 02						
X - 1						
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY						
MATERIAL	NEXT HIGHER ASSY	C-AD-7009164-0-0		SIZE CODE	NUMBER	REV
FINISH		SCALE	1 OF 1	DIST		

BRUNING AND 15888

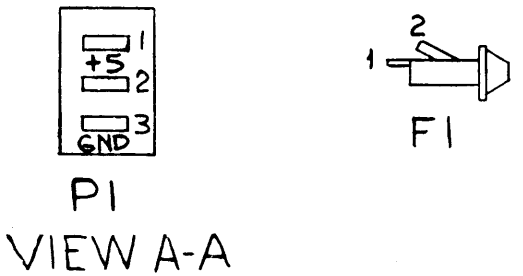
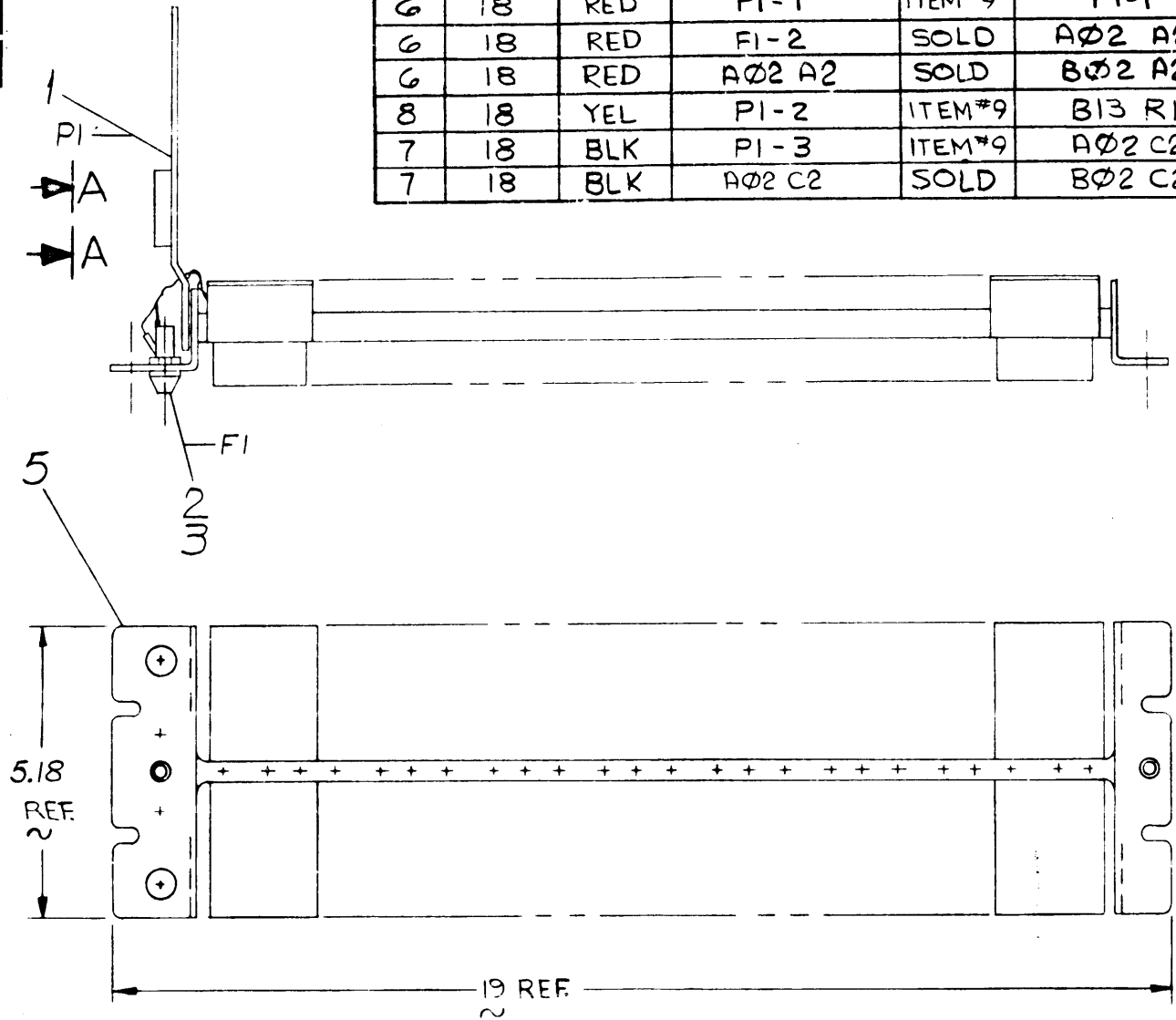
D AD 7009165-0-0

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OCTOBER 1972

WIRE TABLE

ITEM NO.	DESCRIPTION	FROM		TO			
		AWG	COLOR	CONNECTION	WITH	CONNECTION	WITH
6	18 RED			PI-1	ITEM*9	F1-1	SOLD
6	18 RED			F1-2	SOLD	AØ2 A2	SOLD
6	18 RED			AØ2 A2	SOLD	BØ2 A2	SOLD
8	18 YEL			PI-2	ITEM*9	B13 R1	SOLD
7	18 BLK			PI-3	ITEM*9	AØ2 C2	SOLD
7	18 BLK			AØ2 C2	SOLD	BØ2 C2	SOLD



QTY	DESCRIPTION	PART NO	ITEM NO
1	MODULE UTILIZATION (PL)	A-PL-DR15-C-09	12
1	UNIVERSAL BLOCK	1209850	11
14	MODULE HOLDER	1209856-02	10
3	SOLDERLESS CONN	9007917	9
A/R	*18 AWG WIRE IPVC STRD (YEL)	9107360-44	8
A/R	*18 AWG WIRE IPVC STRD (BLK)	9107360-00	7
A/R	*18 AWG WIRE IPVC STRD (RED)	9107360-22	6
1	WIRED ASSY (DR15-C)	D-AD-7009166-0-0	5
4	POP RIVET	9006460	4
1	FUSE 5 AMP	9007222	3
1	FUSE POST	9006994	2
1	POWER END PANEL ASSY	CIA-5408739-1-0	1

FIRST USED ON OPTION/MODEL	UC15	QTY	DESCRIPTION	PART NO	ITEM NO
PARTS LIST					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN	DATE	DIGITAL EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
DECIMALS	ANGLES	CHK'D	DATE	TITLE	
.XXX = .005	± 0° 30'	A. Helenius	1/31/73	LOGIC ASSY (DR15-C)	
.XX = .02		R.C. Gray	1/31/73		
X = .1		PROD	DATE		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		D.A. Druga	2/5/73		
MATERIAL	NEXT HIGHER ASSY.	SIZE CODE NUMBER REV.			
FINISH	D-UA-UC15-Ø-Ø	CAD	7009167-0-0	A	
	SCALE	SHEET 1 OF 1 DIST			

REVISIONS	CHANGE NO.	REV.	DATE
1	UC15F-0003A	A	6-17-74
E. L. HILB 6-17-74			
F. DOLL			

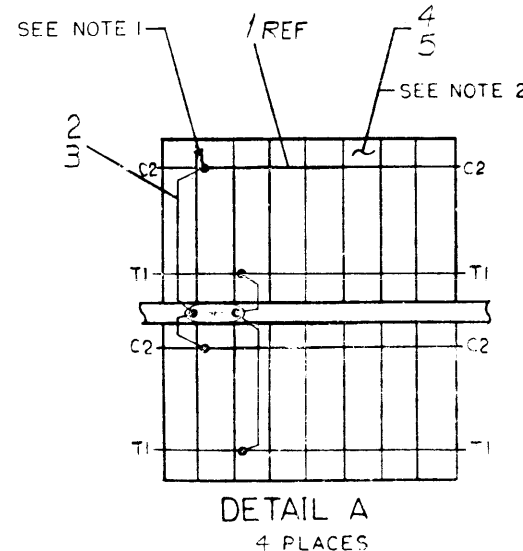
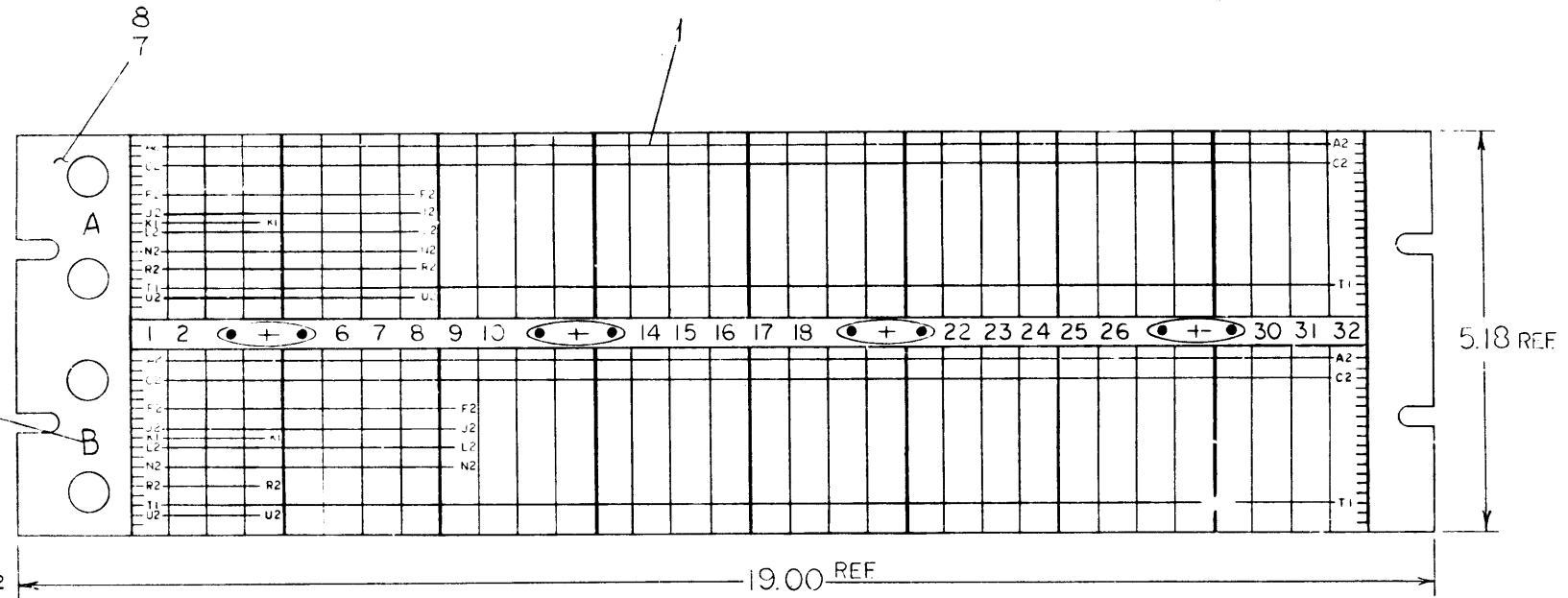
RUNING 40-107 15968

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OCTOBER 1972

- NOTES:
1. CONNECTIONS ON ITEMS 2 & 3 TO BE LOCATED AT MINIMUM PRACTICAL HEIGHT ABOVE BLOCKS.
 2. USE YELLOW WIRE (ITEM "4") FOR MACHINELY WRAPPED AND BLUE WIRE (ITEM "5") FOR HAND WRAPPED.



REF	WIRE LIST DRI5-C	KYL-DRI5-C-WL	8
1	H911 MTG PANEL	D-AD-540491-0-0	7
A/R	LOGIC FRAME DECALS	A-DC-7406371-0-0	6
A/R	#30 AWG KYNAR INS (BLU)	9105740-66	5
A/R	#30 AWG KYNAR INS (YEL)	9105740-44	4
A/R	#22 TUBING, TEFLON WHT	9107265-09	3
A/R	#22 AWG BUS WIRE	9107560-01	2
A/R	BUS STRIP	1205541	1

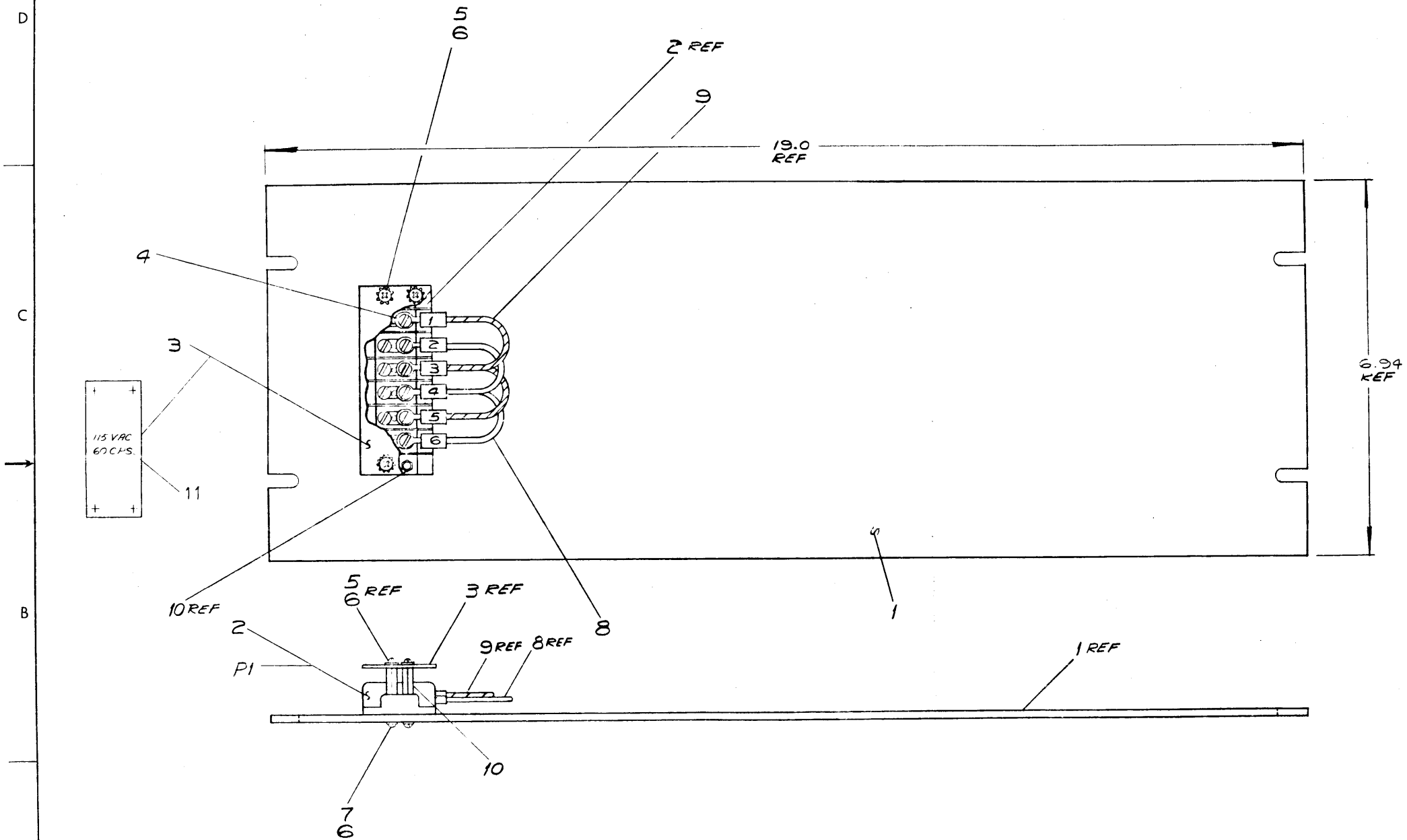
FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO	ITEM NO
UC15				

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DATE		PARTS LIST
DECIMALS	ANGLES	DRY	10/19/72	
xxx - 006	±0° 30'	ENG	10/27/72	
xx - 02		PROJ. ENG.	11/1/72	
x - 1		BRD	11/1/72	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		DATE	11/1/72	
MATERIAL	NEXT HIGHER ASSY	SCALE		
	D-AD-7009167-0-0	SHEET		
FINISH		OF		
		DIST		

7006803-0-01

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WIRE TABLE						
ITEM NO	AWG	COLOR	FROM		TO	
			CONNECTION	WITH	CONNECTION	WITH
9	14	BLK	PI-1	4	PI-3	4
9	14	BLK	PI-3	4	PI-5	4
8	14	WHT	PI-2	4	PI-4	4
8	14	WHT	PI-4	4	PI-6	4



REV	CHANGE NO	DATE	BY	CHK
1				
2				
3				
4				

FIRST USED ON OPTION / MODEL	DO NOT SCALE DRAWING
VT04	UNLESS OTHERWISE SPECIFIED
TOLERANCES DECIMAL	DIMENSION IN INCHES
.XXX = ± .005	TOLERANCES
.XX = ± .02	ANGLES
.X = ± .1	± 0.30
	FINAL SURFACE QUALITY
	REMOVE BURRS AND BREAK SHARP CORNERS

QTY.	DESCRIPTION	PART NO.	ITEM NO.
	PARTS LIST		
	DRN	DATE	
	CHK	DATE	
	ENG.	DATE	
	PROJ. ENG.	DATE	
	PROD.	DATE	
	NEXT HIGHER ASSY		
	SCALE		
	SHEET		

DIGITAL EQUIPMENT CORPORATION

PANEL ASSY

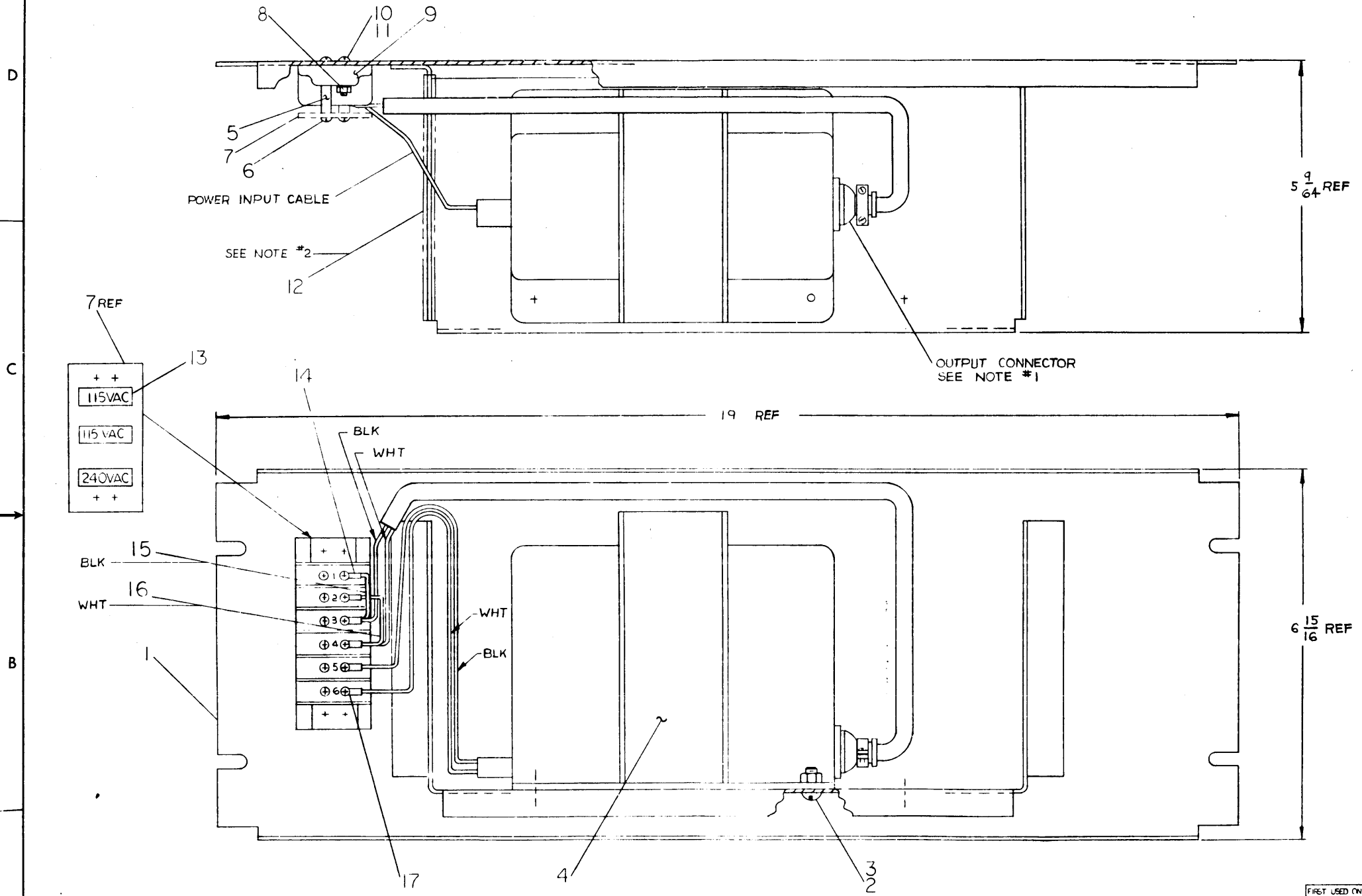
7006803-0-01

7006803-0-01

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DAD 7006060-0-0 2

- NOTES:
1. EXCESS LENGTH TO BE CUT OFF POWER INPUT CABLE (SUPPLIED WITH TRANSFORMER) AND USED FOR POWER OUTPUT CONNECTION.
 2. ATTACH #12 GROMMET, WITH CONTACT CEMENT.



REV	CHG	NO	DATE	BY	APP
A		1	1/2/69		
B		2	1/2/69		
C		3	1/2/69		
D		4	1/2/69		
E		5	1/2/69		
F		6	1/2/69		
G		7	1/2/69		
H		8	1/2/69		

FIRST USED ON OPTION/ MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.																																																																	
TC02-C																																																																					
PARTS LIST																																																																					
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DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

QUANTITY / VARIATION

MADE BY R. HUTNAK	CHECKED D. HEALY	SECTION
DATE 11/26/68	DATE 12/3/68	1
ENG <i>D. Healy</i>	PROD <i>D. Healy</i>	ISSUED SECT.
DATE <i>11/2/68</i>	DATE <i>11/2/68</i>	1

7006060-0

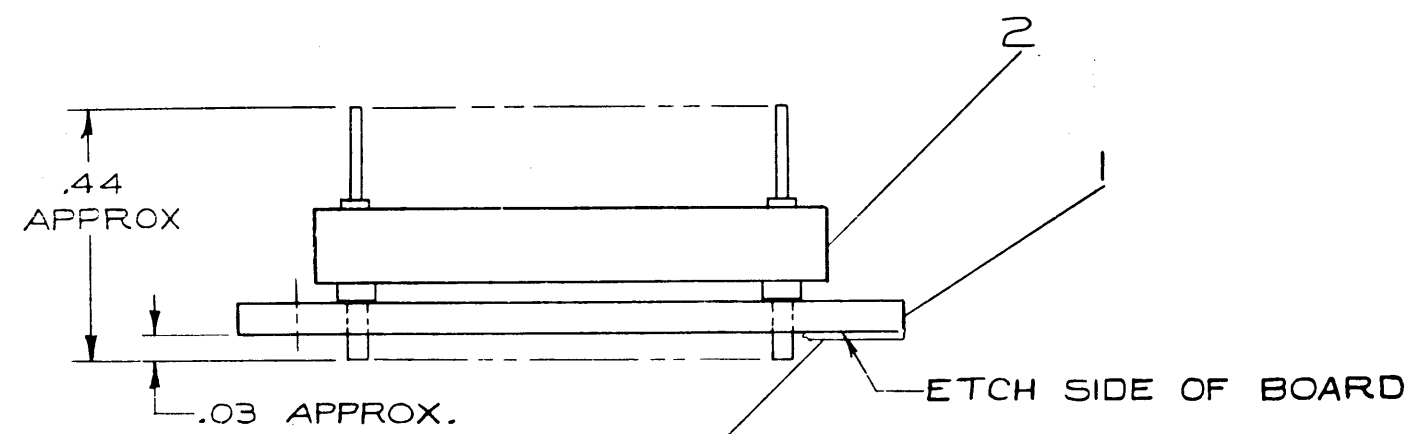
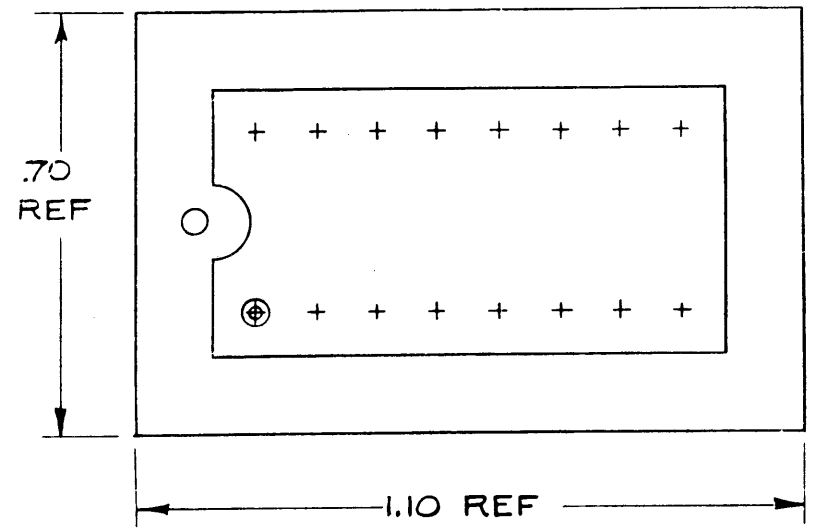
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QTY	UNIT	VAR	VAR	VAR	VAR	VAR	VAR	VAR	VAR	VAR	VAR	VAR	VAR	VAR	VAR	VAR	VAR
1	C-MD-7407072-0-0	PANEL, XMER MTG	1																	
2	9006071-1	SCR. PHL PAN HD #10-32 x 3/8 SST	4																	
3	9006565	NUT KEPS #10-32 SST	4																	
4	1602283	TRANSFORMER, STEP DOWN #N-9M TRIAD	1																	
5	9006851	SPACER #6 THREADED 1/2 D x 1/2 SST	2																	
6	9006020-1	SCR PHL PAN HD #6-32 x 1/2 SST	2																	
7	B-MD-7405436-0-0	COVER PROTECTION (541) 6 TERM	1																	
8	9006560	NUT KEPS #6-32 SST	2																	
9	9006904	TERMINAL STRIP 6-541 CINCH JONES	1																	
10	9006025-1	SCR PHL PAN HD #6-32 x 5/8 SST	4																	
11	9006633	LOCK WASHER #6 INT TOOTH	4																	
12	9007035	GROMMET #22-37-1000 PANQUIT	1																	
13		DECAL, BLK LTRS WHT BACKGROUND	A/R																	
14	9007928	CONN #50364-1 ARK-LES	4																	
15	9107370-00	#14 AWG STPD TEF (BLK)	A/R																	
16	9107370-99	#14 AWG STPD TEF (WHT)	A/R																	
17	9007923	conn. #50364-1 ARK-LES	4																	

TITLE XMER MTG PANEL ASSY	ASSY NO. C-AD-7006060-0-0	SIZE CODE A PL	NUMBER 7006060-0-0	REV. B	ECO NO. TC02-00006
	SHEET 1 OF 1	DIST. <i>G</i>			

DEC FORM NO. DRA 110

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NOTES:
1. CUT OFF EXCESS LENGTH OF PRONGS BEFORE SOLDERING.



TOLERANCES
DECIMAL
XXX = .005
XX = .02
X = .1

FIRST USED ON OPTION/MODEL	M78φ
UNLESS OTHERWISE SPECIFIED	UNLESS OTHERWISE SPECIFIED
UNLESS OTHERWISE SPECIFIED	DIMENSION IN INCHES
DECIMALS	FRACTIONS
± .002	± 1/64
ANGLES	± 0°30'
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	
MATERIAL	SEE PARTS LIST
FINISH	/ /

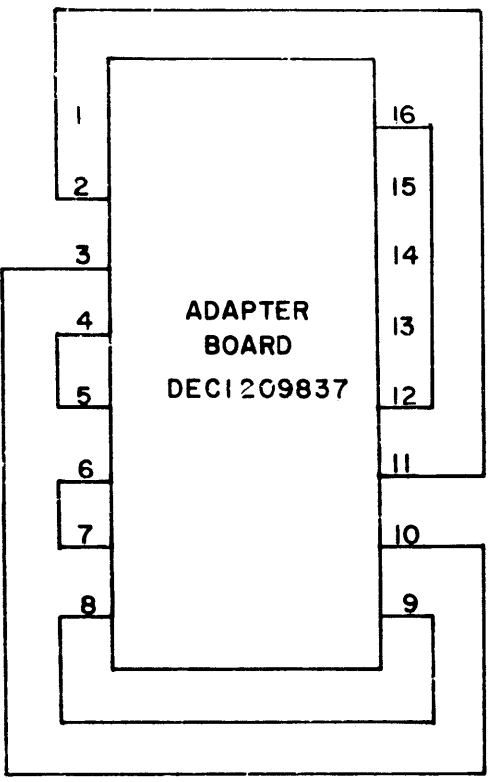
REF	CIRCUIT SCHEMATIC	B-C-5-5408782-0-1	
NYR	TAPE VINYL 3M TRANSPARENT .75 X 1.12	9008269	3
1	PLUG, 16 PRONG, AUGAT	1209837	2
1	ETCH BOARD	D-1A-5008781-0-0	1
QTY.	DESCRIPTION	PART NO.	ITEM NO.

PARTS LIST			
DRN	W.F. M'Carthy	DATE	5/18/70
CHK'D	J. F. Long	DATE	5-22-70
ENG.	C.B. B...	DATE	5/26/70
PROJ. ENG.	P.E. Janson	DATE	6-26-70
PROD.	Alan Donald	DATE	6/29/70
TITLE		PRIORITY JUMPER LEVEL # 7	
SIZE CODE	NUMBER	REV.	
CIA	5408782-0-0	A	
DIST.	G		

REVISIONS	CHANGE NO.	REV.
1	5408782-00001	A
2	5408782-00002	
3	5408782-00003	
4	5408782-00004	
CHK	JANSON	

REV. A
NUMBER 5408782-0-0
SIZE CODE CIA

THIS SCHEMATIC IS FURNISHED ONLY FOR TEST AND MAINTENANCE PURPOSES. THE CIRCUITS ARE PROPRIETARY IN NATURE AND SHOULD BE TREATED ACCORDINGLY. COPYRIGHT 1970 BY DIGITAL EQUIPMENT CORPORATION



REVISIONS CHK. CHG. NO. REV.	LOGICAL	DRN. <i>Kenne</i>	DATE 5/19/70	TRANSISTOR & DIODE CONVERSION CHART				EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE PRIORITY JUMPER LEVEL #7 5408782					
			CHK'D <i>M. Stevens</i>	DATE 5/11/70	DEC	EIA	DEC		EIA	SIZE B	CODE CS	NUMBER 5408782-0-1	REV. A	
			ENG. <i>P. E. Johnson</i>	DATE 5/12/70						PRINTED CIRCUIT REV.	A	B		
			PROD.	DATE										

MS 905 - P1

5

DIST. 324,434,435³ PINK -