

**PC11  
reader/punch control  
engineering drawings**

DIGITAL EQUIPMENT CORPORATION • MAYNARD, MASSACHUSETTS

# PC11 ENGINEERING DRAWINGS

Drawing No.	Title
A-ML-PC11-0	High-Speed Paper Tape Reader & Punch, Master List
A-PL-PC11-0-0	High-Speed Paper Tape Reader & Punch, Parts List
C-DI-PC11-0-1	Drawing Index (PC11)
D-MU-PC11-0-MU	Module Utilization
A-PL-PC11-0-MU	Module Utilization, Parts List
D-CS-M7810-0-1	PC11 Interface
A-SP-PC11-0-5	PC11/PR11 Test Procedure



**DIGITAL EQUIPMENT CORPORATION**  
**MAYNARD, MASSACHUSETTS**  
**PARTS LIST**

MADE BY P. MARCOTTE	CHECKED AT PEPPER	SECTION
DATE 4/2/70	DATE 4/14/70	1
ENG <i>P. Jensen</i>	PROD <i>Thompson</i>	ISSUED SECT.
DATE 5/4/70	DATE 5/5/70	1

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION
	A-PL-DD11-A-Ø	PERIPHERAL MOUNTING PANEL	1 1 (IF REQUIRED)
	A-PL-PC11-Ø-MU	MODULE UTILIZATION	1 1
	C-SC-1209856-0-01	MODULE HOLDER	A/R A/R
	D-UA-BCØ8J-6-Ø	BCØ8J CABLE 6FT.	* *
	D-UA-PCØ5-C-Ø	PCØ5-C, PUNCH, READER, DRIVER	1 1
	D-UA-PCØ5-CA-Ø	PCØ5-CA, PUNCH, READER, DRIVER	1 1
	<del>D-AR-PC11-Ø-Ø</del>	<del>OPTION ARRANGEMENT</del>	I
	D-UA-BCØ8J-1Ø-Ø	BCØ8J CABLE 1Ø FT.	* *
	A-PI-3700024-0-0	PACKAGING INSTRUCTIONS CUST. PACK	1 1
	A-PI-3700123-0-0	PACKAGING INSTRUCTIONS INTERPLANT	1 1
	23-760A9	BOOTSTRAP ROM, PC11 **	1 1
	9906228	BOX ROM SHIPPING **	1 1
*NOTE: 2 EA. BCØ8J-X CABLES ARE REQUIRED. THE LENGTH IS DETERMINED BY THE SYSTEM CONFIGURATION.			
** NOTE: TO BE SHIPPED WITH PC11 AND USED WHEN HOST SYSTEM CONTAINS AN M9312 BOOT MODULE.			

TITLE	ASSY NO.	SIZE CODE	NUMBER	REV.	ECO NO.
HS PAPER TAPE RDR & PUNCH		A PL	PC11-Ø-Ø	D	PC11-00008
DEC FORM NO. DRA 110	SHEET 1 OF 1	DIST.			

*M*

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MECHANICAL			ELECTRICAL		
FIND NO.	DESCRIPTION	PART NO.	PRODCUST	F C	USAGE
1.	HS PAPER TAPE RDR & PUNCH (PL) HS PAPER TAPE RDR & PUNCH BC88J CABLE MODULE HOLDER	A-PL-PC11-B-B A-PL-PC11-A-B D-UA-BC88J-S-B C-SC-1209885-0 01			
2.	PERIPHERAL MOUNTING PANEL DRAWING INDEX	A-PL-DD11-A-B C-D1-DD11-A-1			
3.	PC85-C, PUNCH, READER, DRIVER PC85-C, PUNCH, READER DRIVER (PL) DRAWING INDEX PC85-CA, PUNCH, READER DRIVER PC85-CA, PUNCH, READER DRIVER (PL)	D-UA-PC85-C-B A-PL-PC85-C-B D-D1-PC85-B-1 D-UA-PC85-CA-B A-PL-PC85-CA-B			
4.	H722 POWER SUPPLY H722 POWER SUPPLY PANEL, MOUNTING PROTECTION COVER	D-UA-H722-B-B A-PL-H722-B-B D-1A-5308883-B-B B-MD-5302903-B-B			
5.	PACKAGING INST. (CUST. PACK) OUTER SHIPPING CARTON INNER SHIPPING CARTON BOTTOM PAD FRONT SPACER SIDE SPACER HEAR SUPPORT TOP SPACER TORO PAD POLY BAG -20x13x40x1-1/2 MIL.	A-PI-3700024-0-0 A-PS-9905046-0-0 A-PS-9905047-0-0 A-PS-9905053-0-0 A-PS-9905054-0-0 A-PS-9905055-0-0 A-PS-9905052-0-0 A-PS-9905056-0-0 A-PS-9905044-1-0 A-PS-9905129-7-0			
6.	PACKAGING INST. (INTERPLANT) TAPELESS CARTON SPECIAL DIE CUT ONE PIECE FOLDER QUAD MODULE BOOK PACK POLY BAG	A-PI-370023-0-0 A-PS-9905348-0-0 A-PS-9905348-1-0 A-PS-9905348-2-0 A-PS-9905072-0-0 A-PS-9905129-7-0			

CHK	CHANGE NO.	REV.
EV	PC11-00001	A
	PC11-00004	B
	PC11-00005	C
	PC11-00006	D

REV.	CHANGE NO.	DATE	BY
A	PC11-00001	1-11-72	JANSON
B	PC11-00004	2-22-72	P. J. Janson
C	PC11-00005	8-4-72	P. J. Janson
D	PC11-00006	12-10-74	P. J. Janson

FIRST USED ON OPTION/MODEL  
PDP11

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

DATE 1-5-72  
DATE 2/9/72  
DATE 5/5/70

DRN: S. Mc...  
CHKD: S. Mc...  
ENGR: S. Mc...  
PROL. ENGR: S. Mc...  
DATE 5/5/70

TITLE  
DRAWING INDEX  
(PC11)

SIZE CODE C  
DISTRIBUTION DIST. 5

SCALE NONE

SHEET 1 OF 1

FINISH + + +

MATERIAL A-ML-PC11-Ø

NEXT HIGHER ASSY

REV.	NUMBER	DATE	BY
D	PC11-Ø-1		

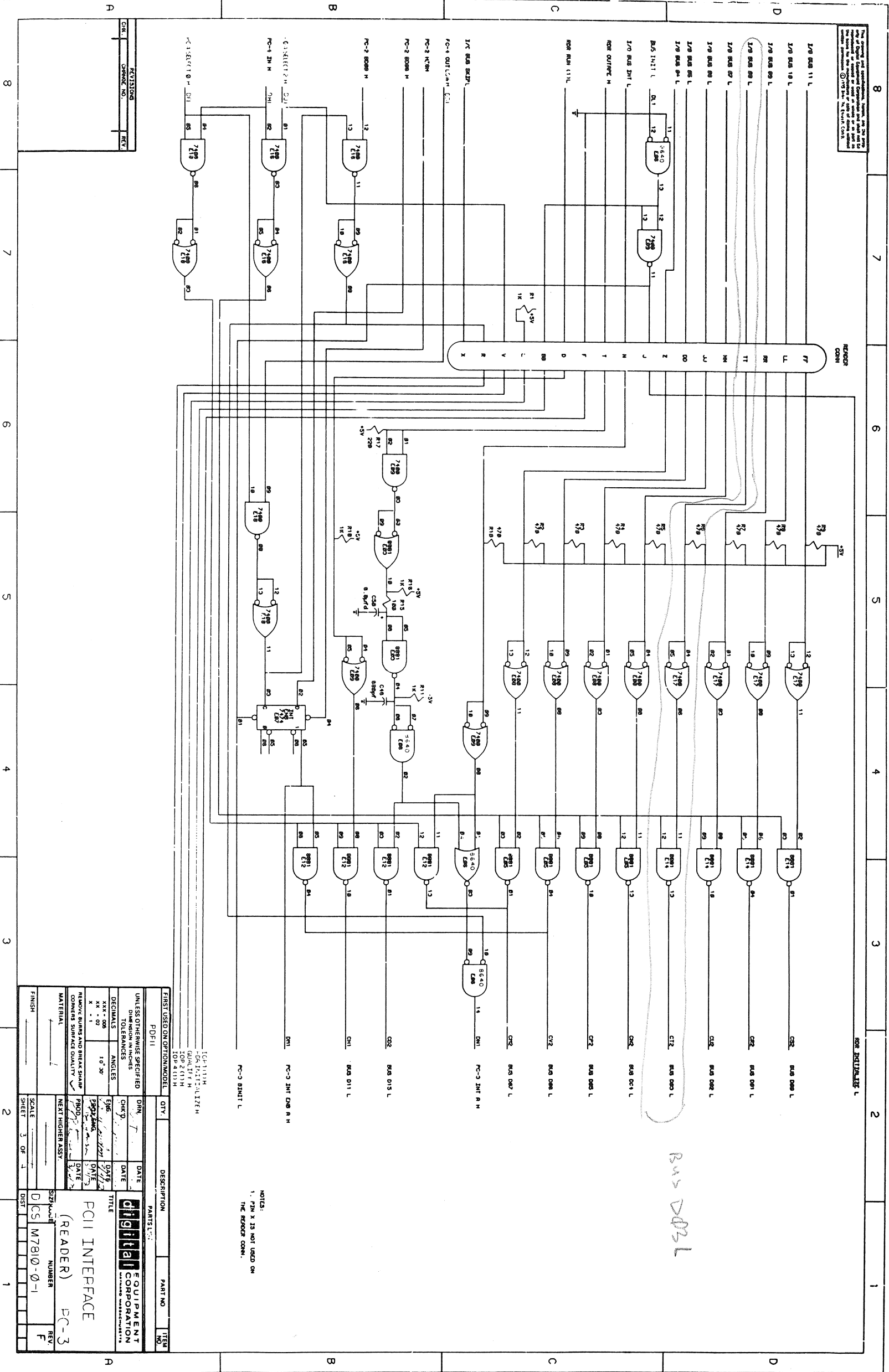
DEC FORM NO. DRG 100

4 3 2 1





For the purpose of this drawing, the following definitions apply: 1. DIM X IS NOT USED ON THE REDUCED COPY. 2. DIM Y IS NOT USED ON THE REDUCED COPY. 3. DIM Z IS NOT USED ON THE REDUCED COPY. 4. DIM W IS NOT USED ON THE REDUCED COPY.



FIRST USED ON OPTION/MODEL		QTY	DESCRIPTION	PART NO.	REV
PDF11					
UNLESS OTHERWISE SPECIFIED					
DIMENSION IN INCHES					
TOLERANCES					
DECIMALS	ANGLES				
XXX - .005	1/2°				
XX - .01					
X - .02					
FINISH SURFACE AND BREAKED SURFACE					
CONFORMS TO SURFACE QUALITY					
MATERIAL					
NEXT HIGHER ASSY					
FINISH					
SCALE		SHEET		REV	
3 OF 3		1		F	
TITLE					
PCI INTERFACE					
(READER) PC-3					
SIZE					
DIMS M7810-0-1					
REV					
F					

NOTES:  
1. DIM X IS NOT USED ON THE REDUCED COPY.

Buss D02L

8 7 6 5 4 3 2 1

A B C D

PC-1 3IN H  
PC-2 3IN H  
PC-3 3IN H  
PC-4 3IN H  
PC-5 3IN H  
PC-6 3IN H  
PC-7 3IN H  
PC-8 3IN H  
PC-9 3IN H  
PC-10 3IN H  
PC-11 3IN H  
PC-12 3IN H  
PC-13 3IN H  
PC-14 3IN H  
PC-15 3IN H  
PC-16 3IN H  
PC-17 3IN H  
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PC-95 3IN H  
PC-96 3IN H  
PC-97 3IN H  
PC-98 3IN H  
PC-99 3IN H  
PC-100 3IN H





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8

7

6

5

4

3

2

1

NOTES:  
SLOT 13 OR 14 IN THE KALI PROCESSOR OR,  
SLOT 1,2,3 OR 4, IN THE DDII-A.

SEE NOTE 1

A

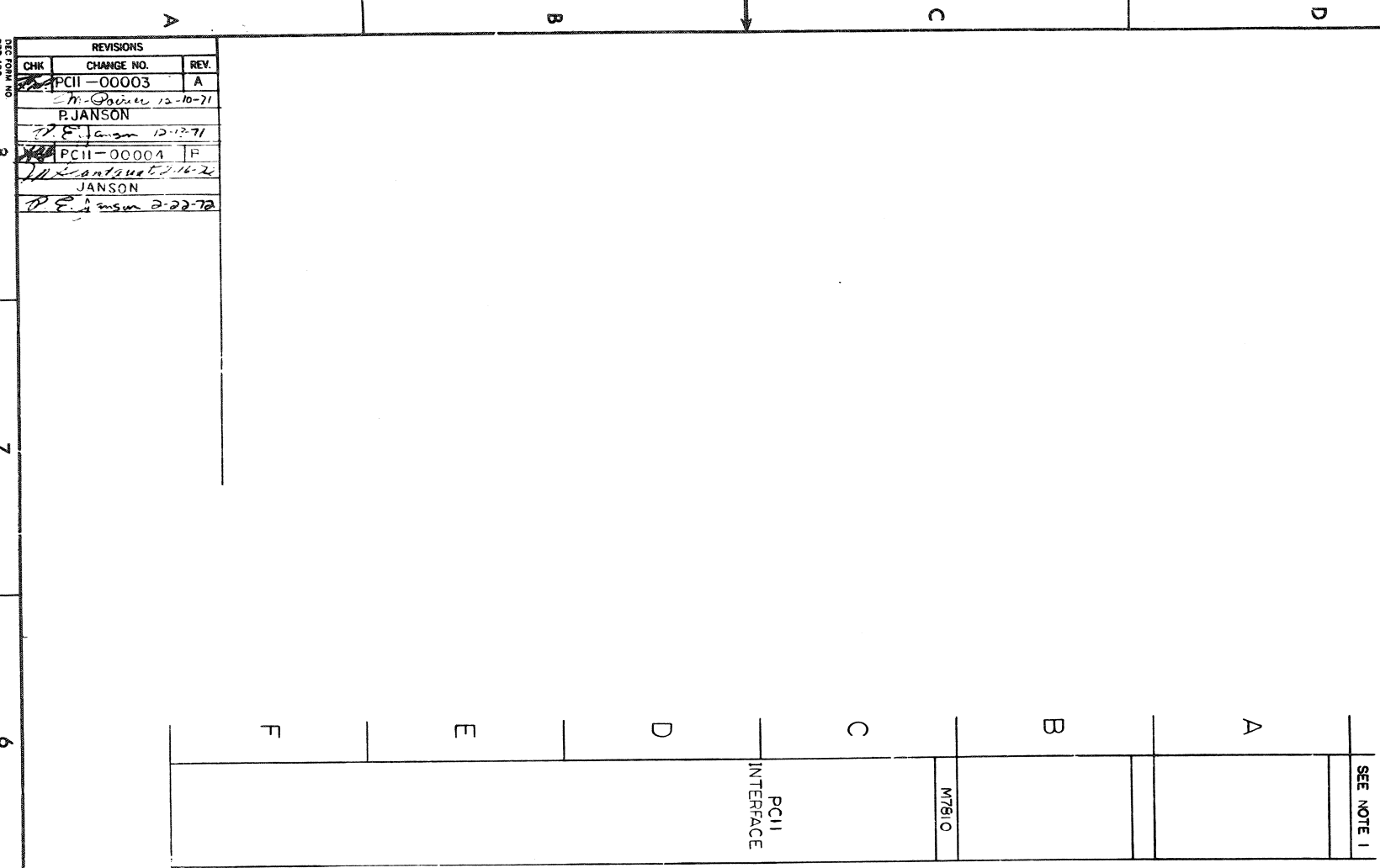
B

C

D

E

F



REVISIONS		
CHK	CHANGE NO.	REV.
	PCII-00003	A
	M. Janson 12-10-71	
	P. Janson	
	P. Janson 12-12-71	
	PCII-00004	F
	M. Janson 12-16-71	
	JANSON	
	P. Janson 2-22-72	

FIRST USED ON OPTION/MODEL  
PCP II

DO NOT SCALE DRAWING  
UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
DECIMALS FRACTIONS ANGLES  
± .008 ± 1/64 ± .020  
FINAL SURFACE QUALITY  
REMOVE BURRS  
MATERIAL  
FINISH  
SCALE  
NEXT HIGHER ASSY  
A-M-L-PCII-0

QTY.	DESCRIPTION	PART NO.	TITLE
	MODULE UTILIZATION		

REV. 3  
DATE 8

SIZE CODE NUMBER  
D M PCII 4-MU



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DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS						
ENGINEERING SPECIFICATION					DATE 9/1/70	
TITLE PC11/PR11 TEST PROCEDURE						
REVISIONS						
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE
A	/ / /	PC11-00003	P. JANSON	12-71	<i>P. E. Janson</i>	12-8-71
B		PC11-00004	P. JANSON	2-72	<i>P. E. Janson</i>	2-22-72

ENG <i>P. E. Janson</i>	APPD <i>P. E. Janson</i>	SIZE A	CODE SP	NUMBER PC11-0-5	REV B
				SHEET 1 OF 5	

CONTINUATION SHEET																																										
TITLE PC11/PR11 TEST PROCEDURE																																										
<p>2.6.4 If for some reason one of the other slots in the DD11 must be used, each preceding (unused) D slot must contain a G727.</p> <p>FOR EXAMPLE: If the option modules are installed in C, D, E &amp; F four, slots D01, D02 &amp; D03 must contain G727 grant continuity modules.</p> <p>2.7 Connect I/O cables as follows:</p> <p>2.7.1 Reader cable (BC08J) from the reader plug on the M781 to slot B9 in the PCO logic.</p> <p>2.7.2 Punch cable (BC08J) from the punch plug on the M781 to slot B10 in the PCO logic.</p> <p>2.8 Turn on power to the PCO with the switch located on the rear of the PCO.</p> <p>3.0 PC11/PR11 TESTING</p> <p>3.1 If not previously loaded, load the diagnostic (Maindec 11-D2BA) into memory via the tape loader.</p> <p>3.1.1 Put halt switch down, set the switch register to all 0's. Depress the LOAD ADDR switch and then hit the START switch (to initialize).</p> <p>3.1.2 Place tape in reader.</p> <p>3.1.3 Depress feed switch on reader.</p> <p>3.1.4 Depress SW1 switch on loader control panel.</p> <p>3.1.5 After tape is read, if END light comes on, the tape is loaded correctly. If ERROR light comes on go back to step 3.1.1 and reload tape.</p> <p>3.2 The diagnostic (D2BA) consists of 12 different tests. All of these tests have a loading address of 200, but have varying switch register settings for starting.</p> <p>3.3 Below is a table which lists the tests, run times (as indicated) for one successful pass of the test, and use of the test as it applies to the PC11 or PR11.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Test</th> <th>Run Time (Min.)</th> <th>Use</th> </tr> </thead> <tbody> <tr><td>PRG0</td><td>3.0</td><td>PC11, PR11</td></tr> <tr><td>PRG1</td><td>3.5</td><td>PC11, PR11</td></tr> <tr><td>PRG2</td><td>1.5</td><td>PC11</td></tr> <tr><td>PRG3</td><td>8.0</td><td>PC11</td></tr> <tr><td>PRG4</td><td>See 3.5.3</td><td>PC11</td></tr> <tr><td>PRG5</td><td>See 3.5.4</td><td>PC11</td></tr> <tr><td>PRG6</td><td>See 3.5.5</td><td>PC11</td></tr> <tr><td>PRG7</td><td>See 3.5.5</td><td>PC11, PR11</td></tr> <tr><td>PRG10</td><td>See 3.5.5</td><td>PC11, PR11</td></tr> <tr><td>PRG11</td><td>See 3.5.5</td><td>PC11</td></tr> <tr><td>PRG12</td><td>See 3.5.6</td><td>PC11, PR11</td></tr> <tr><td>PRG13</td><td>See 3.5.6</td><td>PC11</td></tr> </tbody> </table> <p>3.4 To run any test, set the switch register to 200 and hit load addr key. Set the switch register equal to the number of the test to be run and hit the start key. Operating instructions will be typed out along with normal switch register settings. Follow the instructions and set the switch register as desired, then hit continue.</p>				Test	Run Time (Min.)	Use	PRG0	3.0	PC11, PR11	PRG1	3.5	PC11, PR11	PRG2	1.5	PC11	PRG3	8.0	PC11	PRG4	See 3.5.3	PC11	PRG5	See 3.5.4	PC11	PRG6	See 3.5.5	PC11	PRG7	See 3.5.5	PC11, PR11	PRG10	See 3.5.5	PC11, PR11	PRG11	See 3.5.5	PC11	PRG12	See 3.5.6	PC11, PR11	PRG13	See 3.5.6	PC11
Test	Run Time (Min.)	Use																																								
PRG0	3.0	PC11, PR11																																								
PRG1	3.5	PC11, PR11																																								
PRG2	1.5	PC11																																								
PRG3	8.0	PC11																																								
PRG4	See 3.5.3	PC11																																								
PRG5	See 3.5.4	PC11																																								
PRG6	See 3.5.5	PC11																																								
PRG7	See 3.5.5	PC11, PR11																																								
PRG10	See 3.5.5	PC11, PR11																																								
PRG11	See 3.5.5	PC11																																								
PRG12	See 3.5.6	PC11, PR11																																								
PRG13	See 3.5.6	PC11																																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>SIZE A</td> <td>CODE SP</td> <td>NUMBER PC11-0-5</td> <td>REV B</td> </tr> <tr> <td colspan="3"></td> <td style="text-align: center;">SHEET 3 OF 5</td> </tr> </table>				SIZE A	CODE SP	NUMBER PC11-0-5	REV B				SHEET 3 OF 5																															
SIZE A	CODE SP	NUMBER PC11-0-5	REV B																																							
			SHEET 3 OF 5																																							

ENGINEERING SPECIFICATION		CONTINUATION SHEET									
TITLE PC11/PR11 TEST PROCEDURE											
<p>1.0 TEST EQUIPMENT</p> <p>1.1 A known good PC11 module</p> <p>1.2 A 453 scope and voltage probes.</p> <p>1.3 Extender modules</p> <p>1.3.1 2 double width</p> <p>1.4 Small option test station equipped with:</p> <p>1.4.1 KAl1 processor</p> <p>1.4.2 4K of memory</p> <p>1.4.3 DD11 option panel with 3 G727 grant continuity boards</p> <p>1.4.4 Tape loader</p> <p>1.4.5 Test stand</p> <p>1.4.6 Teletype</p> <p>1.4.7 H722 step down transformer</p> <p>2.0 TEST SET UP</p> <p>2.1 Remove PC05 or PC05R from its carton</p> <p>2.2 Remove chassis track slides from PC or PR to permit installation into test station cabinet</p> <p>2.3 Remove metal cover over the modules to permit installation of I/O cables</p> <p>2.4 Install PCO to be tested in the chassis tracks provided in the test station cabinet</p> <p>2.5 Connect AC power to the PCO:</p> <p>2.5.1 115 VAC @ 60HZ to PC11 or PR11</p> <p>2.5.2 115 VAC @ 50HZ to PC11A or PR11A by using the output of the H722 step down transformer</p> <p>2.6 Install PC11/PR11 modules in the DD11 located in the test stand as follows:</p> <p>2.6.1 M781 in slots C,D,E,F, with a level #4 priority plug installed.</p> <p>2.6.2 Address assignment: cut all "A" jumpers except A4 and A7 this gives address 777550</p> <p>2.6.3 Vector assignment: cut all "V" jumpers except V5, V4 and V3. Cut N1. This gives Vector address 70</p>											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>SIZE A</td> <td>CODE SP</td> <td>NUMBER PC11-0-5</td> <td>REV B</td> </tr> <tr> <td colspan="3"></td> <td style="text-align: center;">SHEET 2 OF 5</td> </tr> </table>				SIZE A	CODE SP	NUMBER PC11-0-5	REV B				SHEET 2 OF 5
SIZE A	CODE SP	NUMBER PC11-0-5	REV B								
			SHEET 2 OF 5								

CONTINUATION SHEET											
TITLE PC11/PR11 TEST PROCEDURE											
<p>For more specific switch settings refer to sections 4.1 to 4.12 of the diagnostic abstract.</p> <p>3.5 Diagnostic Testing Sequence:</p> <p>3.5.1 Run one pass (for time given in table 3.3) each of PRG0, PRG1 and PRG2.</p> <p>3.5.2 Run one pass of PRG3 for the time indicated in table 3.3. Pick a section of the data portion of the tape just punched and test it by inserting it into a tape registration guide (Friden # T8118). If the tape punched doesn't fit the guide, run PRG13 to determine if the punch speed is correct. Adjust to correct speed and rerun PRG3 with guide test (3.5.2)</p> <p>3.5.3 If no failures occurred in the testing done in 3.5.2, run test PRG4 using the tape just punched.</p> <p>3.5.4 Run PRG5 as follows:</p> <ol style="list-style-type: none"> <li>After operating instructions have been typed out take the special binary count tape (D2G4) and load it into the reader.</li> <li>Set switches to all 0's hit the start key.</li> <li>At the end of the data portion of the tape being read, the computer will stop.</li> <li>Using the tape just punched instead of D2G4, repeat steps 1-3 two more times.</li> </ol> <p>3.5.5 Tests PRG6-PRG11 are not to be run during normal testing except as trouble shooting aids.</p> <p>3.5.6 Run one pass each of PRG12 and PRG13 using the 30 second testing period for PRG12.</p> <p>3.6 If any of the tests run in 3.5.1 to 3.5.6 cause failures, refer to section 4.0.</p> <p>3.7 Vibrate the PC11/PR11 module. (M7810) while running PRG5. Use a standard vibrating wand, as described in DEC standard 7665057-0-0.</p> <p>4.0 FAILURES</p> <p>4.1 Adjustment failures may occur during testing. All adjustments are preset, but should a minor adjustment be necessary, use the following procedure: PCO reader setup Dated March 18, 1970 Written by C. A. Youse (of Special Products, Peripheral Equipment Engineering, located at 4-5)</p> <p>4.2 When a defective module is detected, it should be tagged and returned to the stockroom for replacement.</p> <p>4.2.1 After a module replacement, start retest at step 3.4.</p> <p>4.3 Note: Any failure of the PCO other than noted in 4.1 constitutes a problem sufficient to remove the PCO from the station and send it back to off-line testing for examination.</p> <p>5.0 HEAT TEST</p> <p>5.1 Heat test should be run only after successful completion of all previously indicated tests.</p>											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>SIZE A</td> <td>CODE SP</td> <td>NUMBER PC11-0-5</td> <td>REV B</td> </tr> <tr> <td colspan="3"></td> <td style="text-align: center;">SHEET 4 OF 5</td> </tr> </table>				SIZE A	CODE SP	NUMBER PC11-0-5	REV B				SHEET 4 OF 5
SIZE A	CODE SP	NUMBER PC11-0-5	REV B								
			SHEET 4 OF 5								

TITLE PC11/PR11 TEST PROCEDURE

- 5.2 For PR11 heat testing run PRG1. For PC11 heat testing run PRG5 as indicated in 3.5.4.
- 5.3 Start diagnostic. Close the bottom door of the heat chamber, turn on the heater (heater control is preset to 50°C).
- 5.3.1 Start the computer running the test indicated in 5.2.
- 5.3.2 Close the bottom door of the heat chamber and turn on the heater (heater control is preset to 50°C).
- 5.3.3 When 50°C is reached, the top light on the heater control box will go out. Continue running, the diagnostic for 10 minutes more with the door closed.
- 5.3.4 If no errors occur, turn off the heater, open the bottom door and allow it to cool.
- 5.3.5 NOTE: Do not stop the program until the temperature has returned to normal (ambient).
- 5.4 If unit fails in heat, refer to the typeout and the program write up, then go to 4.0 of this procedure.

6.0 TEST COMPLETION

- 6.1 Disconnect I/O cables and AC power.
- 6.2 For PC11, remove tape from unit and empty the chad box.
- 6.3 Remove PCO from test station.
- 6.4 Replace cover over modules and chassis tracks on PCO.
- 6.5 Put tested unit back into shipping container and send to the stockroom.

SIZE	CODE	NUMBER	REV
A	SP	PC11-0-5	B

# DIGITAL EQUIPMENT CORPORATION

MAYNARD, MASSACHUSETTS

## ACCESSORY LIST

MADE BY K. HAMEL	CHECKED 6/16/72	SECTION	LEGEND
DATE 6/16/72	DATE <i>[Signature]</i>		D DOCUMENT CHANGE
ENG <i>[Signature]</i>	PROD DATE	ISSUED SECT.	DN DOCUMENT NOTICE
DATE 6-22-72			PA PAPER TAPE ASCI
			PB PAPER TAPE BINARY
			PM PAPER TAPE READ-IN-MODE

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION			KIT CHECK	INSTALLATION CHECK
1	DEC-11-HPCB-D	PC11 Control Engineering Drawings	PC11 (60 HZ)	1	1		
2	DEC-11-HPCC-D	Maintenance Manual	PC11A (50 HZ)	1	1		
3	L1BKIT-11-PC11	Software Kit	PR11 (50/60 HZ)	1	1		
4	DEC-00-PC0A-D(1)	PC04/PC05 Maintenance Manual (Vol. 1)		1	1		
5	DEC-00-PC04/5 Dwg.	PC04/PC05 Engineering Drawings (Vol. 2)		1	1		
6	<del>PC04/5</del>	<del>Punch Manual</del>		1	1		
7	36-5356	Punch Paper		4	4		
8	74-5300	Chad Box		1	1		
9	90-8851	NOTE: ITEMS 9 AND 10 MUST BE ADDED FOR FIELD ADD-ONS ONLY: Mounting Hardware Bag		1	1		
10	91-9673-06	AC Line Cord 6'		1	1		
11	9906228	BOX *		1	1		
12	23760A9	BOOTSTRAP ROM, PC11 *		1	1		
* ITEMS 11 & 12 SUPPLIED BY VOLUME MANUFACTURER.							
TITLE		ASSY. NO.	SIZE CODE	NUMBER		REV.	ECO NO
HIGH SPEED READER AND PUNCH (PDP-11)			A/AL	PC11-0-6		B	PC11-00008
		SHEET 1 OF 1	DIST.				

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