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<td>MP59189</td>
<td>PRINT SET FP11-A (COMPLETE SET)</td>
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<td>MP59071</td>
<td>PRINT SET H7441 (COMPLETE SET)</td>
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<td>FP11-AU SHIPPING PACKAGING SPECIFICATION</td>
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<td>A-PL-FP11-AU-3</td>
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**UNIT VARIATIONS COVERED BY THIS PRINT SET**

**FP11-AU**  
Field Maintenance  
Print Set

---

**Digital Equipment Corporation**

**PRINT SET ORDER NO.**  
MP59188
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| D-UA-MS266-β-β | CONTROL |
| B-PL-MS266-β-β | CONTROL (PL) |
| D-CS-MS266-β-β | DATA PATH |
| D-UA-MS265-β-β | DATA PATH (CS) |
| B-PL-MS265-β-β | DATA PATH (PL) |
| D-CS-MS265-β-1 | DATA PATH (CS) |

## HD11-EA
Field Maintenance
Print Set

Digital Equipment Corporation

PRINT SET ORDER NO.
MP9192

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**1134A**

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**SHEET 1 OF 1**
NOTE THAT IF ORG = 8 THE "COUNT" WORD INSTRUCTION WILL DECREMENT THE COUNTER AND IF ORG = 4 THE "COUNT" WORD INSTRUCTION WILL INCREMENT THE COUNTER.

THE EFFECT OF THE "COUNT" WORD DEPENDS ON ORG AS FOLLOWS:

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This operation takes place at the beginning of the next cycle.
REWORK INSTRUCTIONS:
WIRE ADDS SIDE 1:
5'-2' FROM R03 AT C17 END TO F7H
LOCATED ABOVE ENC-2
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**REVISION HISTORY**

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**ENGINEERED BASED ON A CONTROL**

**DES.ENG.: M.SULLIVAN**

**RESP.ENG.: M.SULLIVAN**

**MFG.ENG.: R.KING**

**ASSEMBLY NUMBER: 10-M9266-00**

**DOCUMENT NUMBER: M9266**

**FILE NAME: M9266**

**EDIT #**

---

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<th>LINE</th>
<th>DOCUMENT NUMBER</th>
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B-PL-MB267-β-GeV  FLOATING POINT OPTION (PL)
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D-UA-5412416-β-GeV  BOARD INTERCONNECT 2β Pin
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D-CS-5412416-β-1  BOARD INTERCONNECT 2β Pin (CS)
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B-PL-51221-G-β  EXTENDER BOARD ASSY. (PL)
D-CS-51221-G-1  EXTENDER BOARD ASSY. (CS)
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D-FD-FP11-A-5  FLOW DIAGRAM

UNIT VARIATIONS COVERED BY THIS PRINT SET

FP11-A

Field Maintenance
Print Set

Digital Equipment
Corporation

PRINT SET ORDER NO.
MP49189

REV.
A
1134A
D. HEALY
OCT 76
FLOATING POINT OPTION

DATE
D. HEALY
OCT 76

DATE
PROJ. ENG.

DATE

SIZE
B

CODE
TC

NUMBER
FP11-A-4

REV.
B

FIELD SERV.

DATE
n.n-76

DIST.

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**NOTES:**

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<td>12-13508-01</td>
<td>CONNECTOR, 44 PIN REWORKED</td>
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<td>KEY PINS</td>
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**NOTES:**

**REFERENCE:**

**TITLE:** 40 PIN INTERCONNECT BOARD

**ASSY NO.** D-JA-H8821-0-0

**SIZE CODE** B PL H8821-0-0

**NUMBER** 1

**REV.** A

**SHEET** 1 OF 1

**INSERTION PARTS LIST DATABASE REV.**
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<td>CONNECTOR, 28 PIN REMOVED</td>
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<td>J1-J2</td>
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<td>KEY PINS</td>
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<td>J1-J2</td>
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**NOTE:**

1. All etch on side A, bottom except gold planes.

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### Parts List

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**Module Interconnect Board**

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**Tolerances:**

- UNLESS OTHERWISE SPECIFIED,
- DIMENSIONS IN INCHES.
- TOLERANCES:
  - DECIMALS: ±0.005
  - ANGLES: ±3°
- REMOVE BURRS AND BREAK SHARP CORNERS SURFACES.

**Material:**

- NEXT HIGHER ABS.

**Scale:** RA

**Finishes:**

- SHEET 1 of 1
- REV.
<table>
<thead>
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<td>7011411-10</td>
<td>3M CABLE FOR KY11-L#</td>
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**Revision History**

**Basic Part No:** WP942

- **IDRN:** F.MULLIGAN  **DATE:** 13-MAR-78  **DI:**
- **BASIC PART NO:** WP942
- **REV:** (B)  **SECTION 1 OF 1**
- **SECTION 1:** (B)  **SECTION INDEX:**
- **SECTIONS:** (B, 1, 2, 3, 4, 5, 6, 7, 8, 9, C, 10, 11, 12)
- **LAYOUT:** INITIAL

**Document Number**

- **FILE NAME:** W9042.PLS  **EDIT:** 1
- **FILE NAME:** W9042-0-DBP  **REV:** D
- **FILE NAME:** W9042-0

**Title:** FP11A EXENDER BOARD ASSY

---

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NOTE: 1. (G) DESIGNATES ETCH CONNECTION ON LAYER 2
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<td>EK-FP11-A-TM-PRE</td>
<td>FP11-A FLOATING POINT MANUAL</td>
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<td>ZI232-RB</td>
<td>SOFTWARE LIBRARY KIT (PAPER TAPE)</td>
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**TITLE**: FP11-A SHIPPING LIST  
**ASSY NO.**: NONE  
**SIZE CODE**: A  
**NUMBER**: PL  
**REV ECO NO.**: FP11-A-3

DEC FORM DEC 16-325-1031-N870  
DRA 110
PUT INDEX CONSTANT INTO B REGISTER
LOAD XH WITH ACCUMULATOR SPECIFIED BY TRAY
BREAKOUT INSTRUCTION USING TRAY 1 AND DPR PROM (36)
DISPLAY INDEX CONSTANT AS FOLLOWS (DOUBLE-SINGLE-IMMEDIATE)

NO ARG | AC/SRC | AC/FST | FST | SRC/AC SRC | AC/OST | OST

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<th>(2)</th>
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AC ARG | LOCX | LCF | DIVX | ADDX | ADDD | SUBX | SUBD | CMPX | CMPD | MULX | MULD | MODX | MODD |

SETX | LOCDF | LDF | ADDF | ADDO | SUBF | SUBO | CMPO | CMPO | MULT | MULD | MODS | MODD | LOCF | LOCD | MSCF | MSCO | LODF | LODD | LOCP | LODE | LOCS | LOCL | STEF | STEO | STEP | STEP
NOTES
1. TEST SIGN OF FSEC (X0, BIT F)
2. SET FLOATING CONDITION CODES (FIC1) USING THE APPROPRIATE CONSTANT.
   NOTE THAT THE FIC IS CONTAINED IN THE LOWER FOUR BITS OF THE BUFFER (BUF).

STORE X0
IN THIS CASE THE FSCC IS ZERO
SO NO ROUNDISING IS NECESSARY

TIS ROUTINE SETS UP THE FSCC SO THAT
THE ROUNDISING ROUTINE CAN BE USED
TO COMPLETE THE OPERATION
The compare instruction is accomplished by subtracting the AC from the FPR and setting the condition codes on the result. This algorithm forces trivial cases to fall out as follows:

1. Test for zero operands
2. Test for opposite signs
3. Test for non-equal exponents
4. Test fractional difference
THIS INSTRUCTION GENERATES THE PRODUCT OF ITS TWO FLOATING POINT OPERANDS, SEPARATES THE PRODUCT INTO INTEGER AND FRACTIONAL PARTS AND THEN STORES BOTH PARTS AS NORMALIZED FLOATING POINT NUMBERS.

FOR EXAMPLE IF

\[
\text{PRODUCT} = .311000000 \times 2^4
\]

THEN

\[
\text{INTEGER} = .311000000 \times 2^4 = 1294\text{H}
\]

\[
\text{FRACTION} = .000000001 \times 2^4 = 1\text{H}
\]

THE INTEGER IS STORED IN THE AC. THE FRACTION, AFTER BEING NORMALIZED, IS STORED IN THE AC. NOTE THAT IF THE AC IS AN ODD REGISTER, THE INTEGER IS OVERWRITTEN BY THE FRACTION.

IN THIS CASE, BOTH FRACTION AND INTEGER ARE ZERO (SINCE THE PRODUCT IS ZERO).
This routine is used to restore all registers to their state prior to the execution of the instruction that is being aborted.

The trap path will normally be taken unless a CLI or BR is encountered (a BR that is asserted and then cleared before the processor issues a BR).
HERE THE NEXT ADDRESS WAS PICKED TO INHIBIT THE NORMAL OPERATION OF BUT FDP

THIS ROUTINE FETCHES THE UPPER SIXTEEN BITS OF THE FLOATING DESTINATION WITHOUT INCREMENTING/DECREMENTING ANY INDEX POINTERS. THE INDEX UPDATE IS DONE BY FDP MODES OR SPECIAL DEST.
STOP AND SITOF ENTER THIS FLOW AFTER PASSING THROUGH  ROUND/THUMB, THE PROCEED OF ROUNDED CAN CAUSE AN OVERFLOW IN A VERY SMALL CLASS OF VERY LARGE NUMBERS DURING SITOF (PROBABILITY = 0).
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<table>
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<tr>
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**H7441**

Field Maintenance
Print Set

Digital Equipment Corporation

PRINT SET ORDER NO.
MP00271

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FIELD DEC. |

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**REVISION HISTORY**

FIRST USED ON: DIGITAL EQUIPMENT CORPORATION

**VARIATIONS FOR THIS ASSY.**

**CHK**: 00

**ECN NO**

**REV**

**00**

**SC**

**00008**

**J**

**K**

**L**

**M**

**N**

**O**

**P**

**Q**

**R**

**S**

**T**

**U**

**V**

**W**

**X**

**Y**

**Z**

**MAZARD, MASSACHUSETTS**

**PARTS LIST**

**PART NO.**

**DATE**

**TITLE**

**MODIFIED BY D.SIREN**

**DATE: 10-MAR-78**

**TITLE: 5412441-0-0**

**NOTE**

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**DIGITAL EQUIPMENT CORPORATION**

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**MAYNARD, MASSACHUSETTS**
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</table>
MATERIAL REQUIREMENTS

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Purchase Specification No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>3</td>
<td>9905241-00</td>
<td>Hex-Module Book Pack</td>
</tr>
<tr>
<td>2</td>
<td>9905880</td>
<td>Die-Cut Sheet</td>
</tr>
<tr>
<td>1</td>
<td>9905212</td>
<td>Die-Cut Sheet</td>
</tr>
<tr>
<td>1</td>
<td>9905375-01</td>
<td>Die-Cut Carton</td>
</tr>
<tr>
<td>1</td>
<td>9905374-01</td>
<td>Taped Tube</td>
</tr>
<tr>
<td>1</td>
<td>9905622</td>
<td>Module Box</td>
</tr>
<tr>
<td>1</td>
<td>9906009-00</td>
<td>Pad, Laminated</td>
</tr>
<tr>
<td>1</td>
<td>9906009-01</td>
<td>Pad, Laminated</td>
</tr>
<tr>
<td>1</td>
<td>9906010</td>
<td>Pad, Laminated</td>
</tr>
<tr>
<td>1</td>
<td>9906011</td>
<td>Pad, Laminated</td>
</tr>
<tr>
<td>1</td>
<td>9906012</td>
<td>Pad, Laminated</td>
</tr>
<tr>
<td>1</td>
<td>9906008</td>
<td>Tube, Taped</td>
</tr>
<tr>
<td>1</td>
<td>9906007</td>
<td>Carton, Regular Slotted</td>
</tr>
<tr>
<td></td>
<td>9905729</td>
<td>Tape, Carton Sealing</td>
</tr>
</tbody>
</table>

PACKAGING INSTRUCTIONS

Step Procedure

NOTE

See Figure 1 for Steps 1 thru 4

1. Fold and place one Die-Cut Sheet (9905880) into bottom of Die-Cut Carton (9905375-01)
2. Place Power Supply into Die-Cut Sheet (9905212) and then into the Die-Cut Sheet (9905880). Used in Step 1.
3. Place the remaining Die-Cut Sheet (9905880) on top of the Power Supply and then close the cover and seal with one strip of Carton Sealing Tape.
4. Place Die-Cut Carton into Taped Tube and seal with Carton Sealing Tape.  

NOTE

See Figure 2 for Steps 5 thru 19

5. Seal bottom of Regular Slotted Carton 1 piece along length and each edge.
6. Place Prepackaged H7441 in Regular Slotted Carton (9906007).
<table>
<thead>
<tr>
<th>Step</th>
<th>Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>Place Laminated Pad (9906012) in carton with recess in vertical position.</td>
</tr>
<tr>
<td>8</td>
<td>Insert Extender Board W9042 with Cables into Module Box (9905622).</td>
</tr>
<tr>
<td>9</td>
<td>Place Module Box into rectangular recess in Laminated Pad (9906012).</td>
</tr>
<tr>
<td>10</td>
<td>Place Laminated Pad on top of packaged H7441.</td>
</tr>
<tr>
<td>11</td>
<td>Place Laminated Pad (9906010) in carton with recess vertical.</td>
</tr>
<tr>
<td>12</td>
<td>Place Hex Module (3) (M8265, M8266, M8267) into Module Book Packs (9905241-00) with etch side up and seal with Carton Sealing Tape (9905729).</td>
</tr>
<tr>
<td>13</td>
<td>Insert the (3) Book Packs into recesses of Laminated Pads.</td>
</tr>
<tr>
<td>14</td>
<td>Insert Power Distr. Strip (5410864-YA) into Taped Tube (9906008).</td>
</tr>
<tr>
<td>15</td>
<td>Insert Pads (9906009-00 and 9906009-01) into ends of Taped Tube (9906008) with recesses facing out.</td>
</tr>
<tr>
<td>16</td>
<td>Insert Connector Blocks ((1) M5412416, (1) H8821) into recesses of pads with etch side out.</td>
</tr>
<tr>
<td>17</td>
<td>Place Taped Tube (9906008) on top of Module Book Packs between Laminated Pads.</td>
</tr>
<tr>
<td>18</td>
<td>Insert Manuals and Print Set on either side of Book Packs.</td>
</tr>
<tr>
<td>19</td>
<td>Seal Carton with Carton Sealing Tape (9905729).</td>
</tr>
</tbody>
</table>
PACKAGING INSTRUCTION

TITLE: FP11-AU FLOATING POINT UPGRADE KIT

REV: A DATE: 3/77
B 10/77

DIE-CUT SHEET 9905880

DIE-CUT SHEET 9905212

DIE-CUT SHEET 9905880

DIE-CUT CARTON 9905375-01
(SEE NOTE SHEET 1)

TAPE-TUBE 9905374-01
(SEE NOTE SHEET 1)

NOTE:
Make changes to "C" size origal only and rereograph.

ENG. 7/12/76
APPRO. 7/12/76
SIZE A
CODE A
NUMBER 3700270-0-0
REV B

DRC-106

SHEET 3 OF 4
<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>DWG NO. / PART NO.</th>
<th>DESCRIPTION</th>
<th>QUANTITY / VARIATION</th>
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<tbody>
<tr>
<td>1</td>
<td>MP30188</td>
<td>FP11-AU FIELD MAINTENANCE PRINT SET</td>
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<tr>
<td>2</td>
<td>EK-KD-EA-TM-PRE</td>
<td>KD11-EA PROCESSOR MANUAL</td>
<td>1</td>
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<tr>
<td>3</td>
<td>EK-FP11-A-TM-PRE</td>
<td>FP11-A FLOATING POINT MANUAL</td>
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</tr>
<tr>
<td>4</td>
<td>ZJ233-RB</td>
<td>SOFTWARE LIBRARY KIT (PAPER TAPE)</td>
<td>1</td>
</tr>
</tbody>
</table>