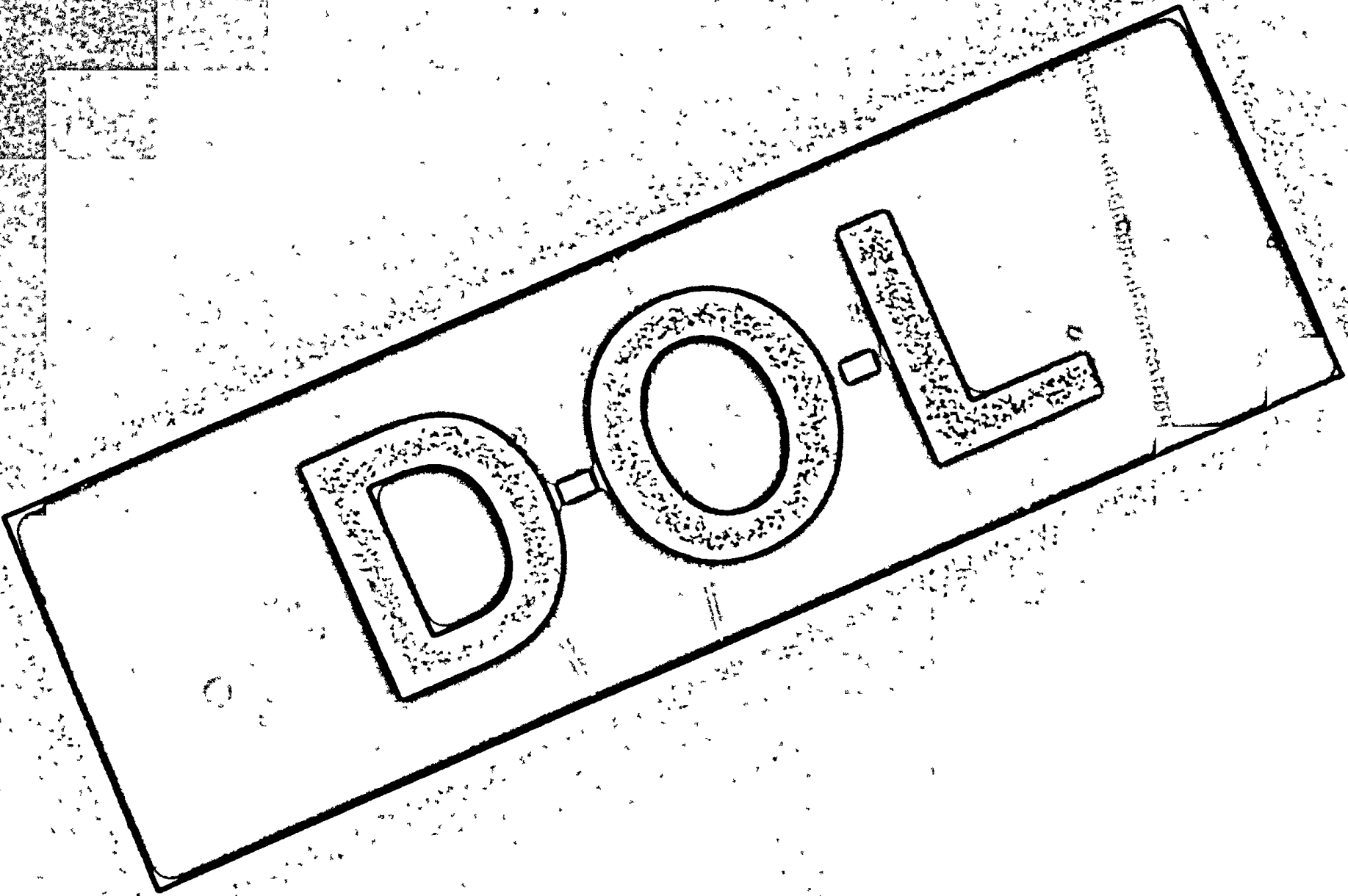
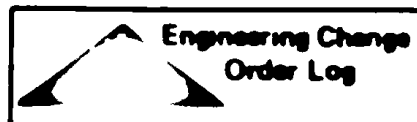


PDP 1 1 / 34





11/34
PROCESSOR

711

PROCESSOR TYPE PDP 11 FAMILY

11/34-00001 CODE P DD
APR 76 PROBLEM Current drawing package for the PDP 11/34 documents only the DM and DN machine configurations. There are also no Field Maintenance Print Set drawings called out in the package.
CORRECTION Obsolete the present PDP 11/34 Unit Assembly drawing package and provide replacements. These new prints include Field Maintenance Print Set Drawing Directory and Unit Assembly drawings for all 11/34 configurations (DC DD HC HD LC LD MC MD LH LJ DH DJ MD MJ HH HJ LM LN DM DN MM MN HM and HN).
IN PLANT EFFECTIVITY Documentation change only. All old Drawing Directories and Unit Assembly drawings should be obsoleted immediately and replaced.

11/34-00002 CODE P DD A
MAY 76 PROBLEM An ECO to the KY11 LA Operator's Console to cure a power fail problem affects the PDP 11/34 documentation.
CORRECTION 1 Document the effect of the KY11 LA on the 5.25 and 10.5 inch variations of the PDP 11/34.
CORRECTION 2 Correct documentation errors.
IN PLANT EFFECTIVITY Documentation change only.

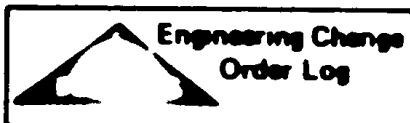
11/34-R0003 CODE F
FEB 77 PROBLEM There is no SACK TIMEOUT circuitry in PDP 11/34 systems containing an M7266 at CS revision A thru E. If these systems contain certain bus requesting (NPR or BR) peripherals they may hang in a state where a BUS GRANT is sent by the processor but the peripheral neither passes the GRANT nor returns BUS SACK.

CORRECTION M8264 NO SACK TIMEOUT module must be incorporated into all PDP 11/34 systems containing any M7266 at CS revision A thru E. The M8264 module is a Quad SPC which must be installed in Slot 3 of the DD11 P processor backplane.
IN PLANT EFFECTIVITY (August 76) This ECO must be implemented on all PDP 11/34 machines from FA & T back through assembly.
FIELD EFFECTIVITY Every PDP 11/34 in the field must have an M8264 in slot CDEF3.
QUICK CHECK In slot 3C thru 3F there is an M8264.
Time to Install and Test 0.5 hr.
Documentation \$5.00. Parts price undetermined at date of FCO release.
The DEC on site labor charge will be the time required to install and test the FCO at the then current hourly rate.
Kit Contents (PF1848 5\$) FCO and PARTS.

11/34-00004 CODE D DD B
OCT 76 PROBLEM Present PDP 11/34 configurations do not support the RK06 or RPO6 and require two M9301 versions (M9301 YA and M9301 YB) to support all popular peripherals.
CORRECTION Delete M9301 YA and M9301 YB bootstrap modules from all PDP 11/34 configurations and replace them with an M9301 YF bootstrap terminator.
IN PLANT EFFECTIVITY Begin inserting M9301 YF bootstraps in all PDP 11/34 configurations on or before April 1, 1977. Do not scrap any M9301 YA or M9301 YB modules. Use existing stock of M9301 YA and M9301 YB modules for PDP 11/04 systems.

11/34-00005 CODE M DD C
DEC 76 PROBLEM 1 Bezel difficult to install.
CORRECTION 1 Change mounting hardware of bezel to facilitate assembly.
PROBLEM 2 Air filter difficult to remove for replacement.
CORRECTION 2 Change procedure for installation and removal of air filter.
PROBLEM 3 BA11 K box does not sit flush with other equipment.
CORRECTION 3 Redesign console mounting bracket for the KY11 LA.
CORRECTION 4 Connector decal call-out corrected.
IN PLANT EFFECTIVITY Phase in to all new hardware orders placed after December 31, 1976. No rework or scrap.

PDP11/34-00006 CODE D DD D
MAR 77 PROBLEM SYMPTOM decals are lifting off the box.
PROBLEM 1 Slides are interfering with decals in their present location when the unit is tilted or extended.
CORRECTION 1 Relocate decals to the louvered section of the chassis above the slides.
PROBLEM 2 UL and NFPA decals are called out at both BA11 K and processor levels.
CORRECTION 2 Delete UL and NFPA decals from processor level.
IN PLANT EFFECTIVITY Immediately in all new builds.



11/34
PROCESSOR

PROCESSOR TYPE PDP 11 FAMILY

11/34 80007 CODE F DD E
OCT 77 PROBLEM SYMPTOMS +5 volt and ± 15 volt regulators may be severely damaged
CORRECTION 1 Restate Note 5 on drawing E UA 11/34 0 0 sheet 1 of 3 to read when the DD11 PK is used with a BA11 K expansion box without battery back up (i.e. no H785 or H7850) install jumpers from 15 to 15B +15 to +15B and +5 to +5B This will provide power to the MOS memory voltage rails
PROBLEM 2 It is possible to interconnect two regulated +5V supplies when installing FP11 AU on older 11/34 s
CORRECTION 2 On drawing E UA 11/34 0 0 sheet 1 of 3 Add as note 15 BA11 Ks that use the 5410864 YA 1 power distribution (i.e. 11/34A 11/34 with FP11 AU and some 11/04 s) and have one DD11 CK (or an additional DD11 DK) can only have the +5 to +5B jumper in one of the backpanels If two of the backpanels have the jumper in the +5V regulators may be interconnected together Typically this jumper is in the first backpanel but it may be placed in one of the other backpanels if deemed necessary for power requirements
IN PLANT EFFECTIVITY (May 1977) Immediate
FIELD EFFECTIVITY Update the Field Maintenance Print Set using the revised print package in every site where there is a PDP 11/34
QUICK CHECK Drawing E UA 11/34 0 0 sheet 1 of 3 is at revision H
Time to Install and Test N/A hr
Documentation \$5 00 Parts \$
The DEC on site labor charge will be the time required to install and test the FCO at the then current hourly rate

PDP 11/34 00008 CODE D DD F
JUN 77 PROBLEM 1 Presently used shipping bracket is too expensive
CORRECTION 1 Use new shipping bracket 74 13659
PROBLEM 2 Decal locations not shown on 5 25 box
CORRECTION 2 Add view showing decal locations
CORRECTION 3 To ensure integrity of front console add bearing strips
IN PLANT EFFECTIVITY (1) All brackets ordered after July 11 1977 will be new style Use existing stock do not scrap (2) Documentation change only (3) Phase in to all new builds by August 21 1977

FFCO'S



FIELD CHANGE ORDER

FCO PDP-11/34 R 0003 PAGE 1 of 2
Level of Urgency (LOU)**APPLICABILITY**

EVERY PDP-11/34 IN THE FIELD MUST HAVE AN M8264 IN SLOT C3, D3, E3, F3.

STATE'S LOU	PCO EXPENSE RESPONSIBILITY		
	WARRANTY	R	PER CALL
Mandatory	DIGITAL		
Required			CUST
Specification			CUST
Improvement			CUST
Hardware Option	PURCHASABLE OPTION		
Comets	CUST	CUST	CUST

ESTIMATED TIME TO INSTALL and TEST (on-site)
(Travel time not included)
0.5
DECIMAL HOURSINSTALLATION CHARGE NUMBER
(For field service reporting)
FCR- 11/34
AUG 76

CHECK CHECK (To determine if FCO has been installed)

IN SLOT 3 C THRU F THERE IS AN M8264

LAST PREVIOUS FCO: NONE

RELATED OR PREREQUISITE FCO: NONE

SPECIAL TEST EQUIPMENT, TOOLS, or SUPPLIES
(Not included in the Field Retrofit Kit)**FCO KIT CHARGES** (United States and Canada only)

KIT ITEM	DOCUMENTATION	PARTS	OTHER
FCO KIT	\$5.00	X	***

Parts charges are as of release date and are subject to change

PARTS AVAILABILITY DATE: UNDETERMINED

LOGISTICS CODING: (PF1848 55*) (400)(400)(50)

LOGISTICS REVIEW

QTY PART NUMBER DESCRIPTION

1 M8264 MODULE

** PARTS PRICE UNDETERMINED AT DATE OF FCO RELEASE

*** FIELD SERVICE LOGISTICS WILL INCLUDE, IN THE PARTS KIT, CIRCUIT SCHEMATIC DRAWINGS WHICH CORRESPOND TO THE REVISION LEVEL OF THE MODULE THAT IS SHIPPED.

(1-77)(50)(50)(ETC.)

NOTES

APPROVED Field Service Product Support

WILLIAM APPERLEE

DISTRIBUTION CODING

 To all Field Offices
 To Regional OfficesLIST 11
IDU 300

SPR

P
M
TKU 50
350

APPROVED Technical Documentation

2-15FCO RELEASE DATE
FEBRUARY 18, 1977

**ENGINEERING
CHANGE ORDER**

ORIGINATOR John Bloem
 TEL EXT 3018 DATE 8/19/76
 LOCATION ML21-1/EB1
 COST CENTER NO 39A

FCO PDP-11/34-R0003
 PAGE 2

PROBLEM There is no SACK TIMEOUT circuitry in PDP 11/34 systems containing an M7266 Rev. A thru Rev. E module. If these systems contain certain Bus Requesting (NPR or BR) peripherals, they may hang in a state where a BUS GRANT was sent by the processor, but the peripheral neither passed the GRANT nor returned BUS SACK.

M98-0039A-66812

CORRECTION M8264 NO SACK TIMEOUT module must be incorporated in all PDP 11/34 systems containing any M7266 Rev. A thru Rev. E. ~~In systems whose space constraints will not allow the inclusion of the M8264, the M7266 can be retrofitted with the NO SACK TIMEOUT changes specified in a forthcoming ECO to the M7266.~~

The M8264 module is a Quad SPC which must be installed in Slot 3 of the DD11-P processor backplane.

BREAK IN/EFFECTIVITY

This ECO must be implemented on all PDP 11/34 machines from F. A. & T. back through assembly. Machines currently in the field should be updated to this ECO only when the error situation described above occurs.

QUICK-CHECK

Systems containing an M7266 Rev. A thru Rev. E module must also include M8264 SACK TIMEOUT module.

TEST

UNIT TO BE CHANGED
 PDP 11/34
 Field Maint.
 Print Sets

PRODUCT FAMILIES
 AFFECTED

11/34

TYPE OF ECO

HARDWARE
 SOFTWARE
 PURCHASE
 SPEC

**FIELD SERVICE
 AFFECTED**

YES NO

D.P. R DISTR

LOU CODE

WHERE USED

11/34

ITEM NO	DOCUMENT/PART NO	OLD REV	NEW REV	DESCRIPTION OF CHANGE /DISPOSITION OF MATERIAL
1	B-TC-11/34-0-1	A	B	Update per this ECO.
2	B-TC-11/34-0-2	A	B	Update per this ECO.
3	E-UA-11/34-0-0	B	C	Update per this ECO.
4	C-PL-11/34-0-0	B	C	Update per this ECO.
5	M8264	-	-	(No Sack Time Out) Add qty of 1 to all variations

APPROVAL SIGNATURE (TYPE NAME AND SIGN)
 PROJECT ENGR John Bloem
 ENG MGR John Sofio
 TEL EXT 3018 COST CENTER NO 39A
 DISC PROJ NO E20-07846 DATE 8/19/76

REVIEW SIGNATURES (SEE INSTRUCTIONS FOR APPLIC)
 FIELD SERVICE
 DIAGNOSTIC ENGR

COORD NO 100509 REF NO ME

MARY [Signature] 8-31-76





FIELD CHANGE ORDER

FCO POP 11/34 5 0007 PAGE 1 of 1
Level of Urgency (LOU)

APPLICABILITY

UPDATE THE FIELD MAINTENANCE PRINT SET, USING THE REVISED PRINT PACKAGE, IN EVERY SITE WHERE THERE IS A POP 11/34.

THE FOLLOWING NOTES HAVE BEEN ADDED TO DRAWING E-UA-11/34-0 0, SHEET 1 OF 3, REVISION "H".

- CHANGE NOTE 5 ON SHEET 1 TO READ AS FOLLOWS:
WHEN THE DD11-PK IS USED WITH A BA11-K EXPANSION BOX WITHOUT BATTERY BACK-UP (I.E., NO H785 OR H7850), INSTALL THE THREE JUMPERS SHOWN:
A) 15 TO -15B
B) +15 TO +15B
C) +5 TO +5B (SEE NOTE 15)
USE #20 INSULATED BUS WIRE ON SIDE 2. THIS WILL PROVIDE POWER TO THE MOS MEMORY VOLTAGE RAILS.
- ADD AS NOTE 15 ON SHEET 1 THE FOLLOWING:
BA11-K'S THAT USE THE 5410864-YA-1 POWER DISTRIBUTION (I.E., 11/34A, 11/34 WITH FP11-AU, AND SOME 11/04'S) AND HAVE ONE DD11-CK (OR AN ADDITIONAL DD11 DK) CAN ONLY HAVE THE +5 TO +5B JUMPER IN ONE OF THE BACKPANELS. IF TWO OF THE BACKPANELS HAVE THE JUMPER IN, THE +5V REGULATORS MAY BE CONNECTED TOGETHER. TYPICALLY THIS JUMPER IS IN THE FIRST BACKPANEL, BUT IT MAY BE PLACED IN ONE OF THE OTHER BACKPANELS IF DEEMED NECESSARY FOR POWER REQUIREMENTS.

STATUS	FCO EXPENSE RESPONSIBILITY		
	WARRANTY	E	PR (ALL)
Mandatory			
Required			CUST
Specification			CUST
Improvement			CUST
Hardware Option	PURCHASABLE OPTION		
Comments	CUST	CUST	CUST

ESTIMATED TIME TO INSTALL and TEST (on site)
(Travel time not included)

N/A
DECIMAL HOURS

FCR - 11/34
FP11-A
DD11-C
DD11-D
DD11-P

MAY '77

The site FCO installation by DDC will be in accordance with both APPLICABILITY and the above FCO EXPENSE RESPONSIBILITY matrix.

CHECK CHECK (to determine if FCO has been installed)
DRAWING E-UA-11/34-0-0, SHEET 1 OF 3, IS AT REVISION "H".

LAST PREVIOUS FCO: R03
RELATED OR PREREQUISITE FCO: NCU:

FCO KIT CHARGES (United States and Canada only)

ITEM	IMPLEMENTATION	PARTS	OTHER
1111	FCO PRINTS \$5.00	NONE	

Parts charges are as of FCO release date and are subject to change.

PARTS AVAILABILITY DATE _____
LEADTIME CODING: _____ (2K) (0) (2K)

LEADTIME REVIEW _____
QTY PART NUMBER DESCRIPTION

PROBLEM SYMPTOMS: +5 VOLT AND +15 VOLT REGULATORS MAY BE SEVERELY DAMAGED.

ORDER BY THIS NUMBER	KIT INCLUDES	
	FCO PRINTS	PARTS
FA-02026-00	X	X
FA-02026-01	X	
FA-02026-02		X

APPR TO Field Service Product Support
Bill Supperlee
BILL SUPPERLEE

DISTRIBUTION CODING
 To all Field Offices
 To Regional Offices
LIST 11
ITEM 300
P []
M []
1AU 2000
2300

APPROVED Technical Documentation
Al Kimmey
FCO RELEASE DATE
SEPTEMBER 30, 1977

FCO 11/34-S0007

REVISED PRINT PACKAGE

SEPTEMBER 9, 1977


THIS PACKAGE INCLUDES SELECTED PRINTS WHICH ARE SPECIFICALLY REQUIRED IN THE FIELD FOR FCO IMPLEMENTATION AND/OR FOR THE UPDATING OF THE CUSTOMER PRINT SET (FIELD MAINTENANCE PRINT SET) TO THE PROPER REVISION LEVEL FOR THE FCO

DRAWING	SHEET	REVISION
E-UA-11/34-0-0	1 OF 3	"H"

DISTRIBUTION CODING (E20-07846) (121713) SPO

<input type="checkbox"/> At Field Offices	List 11	LSC FA-02026-02
<input checked="" type="checkbox"/> Regional Offices	FDG 45	LKO 2000
<input type="checkbox"/>	P <u>124</u>	M <u>16377</u> 2045

TECH. TIPS

	FIELD SERVICE TECHNICAL MANUAL				Option or Designator PDP 11/34 SYSTEM
	12 Bit <input type="checkbox"/>	16 Bit <input checked="" type="checkbox"/>	18 Bit <input type="checkbox"/>	36 Bit <input type="checkbox"/>	PROCESSOR

Title M9302 TERMINATOR (CAUTION)					Tech Tip PDP 11/34 Number TT-1
All 11/04	Processor Applicability		Author Howard Janke	Rev 0	Cross Reference
	11/34		Approval John Woelbern	Date 4/26/76	

The M9302 terminator used in the 11/34 can be the cause of disaster. This terminator positively will not work in a Modified Unibus slot. The Modified Unibus uses some of the Unibus Ground Lines as voltage rails (to accommodate SPC memories). Insertion of the M9302 into a Modified Unibus slot will short ground and power.

The Modified Unibus slots are:

DD11-C A & B of slots 2 and 3
 DD11-D A & B of slots 2 thru 8
 DD11-P A & B of slots 2 thru 8

The M9302 should always be the last item on the Unibus. If an existing option is removed from a middle slot, a grant continuity card must be put in its place.

DO NOT MOVE THE M9302 TERMINATOR.

Title MM11-D/DP MEMORY BACKPLANE					Tech Tip PDP 11/34 Number TT-2
All	Processor Applicability		Author William Aupperlee	Rev g	Cross Reference MM11-TT-14
			Approval William Dumbat	Date 8-4-76	

This Tech Tip is for cross reference purposes only.

Title M9301-YA/YB SET UP AND CONSIDERATIONS					Tech Tip PDP 11/34 Number TT-3
All	Processor Applicability		Author Howard Janke	Rev g	Cross Reference M9301-TT-3
			Approval John Woelbern	Date 8-4-76	

This Tech Tip is for cross reference purposes only.

Title NOISE PROBLEM WITH H777 IN THE BALL BOX					Tech Tip PDP 11/34 Number TT-4
All 11/04/34	Processor Applicability		Author Bill Aupperlee	Rev g	Cross Reference PDP 11/04 TT-13
			Approval John Woelbern	Date 10-13-76	

This Tech Tip is for cross reference purposes only.

PAGE 1	PAGE REVISION E	PUBLICATION DATE AUG 1977
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Title DD11/DF Power Harness Error (BA11-F Box)		Tech Tip Number PDP11/34-TT-5	
Processor Applicability		Author Robert Brassard Rev 0	Cross Reference DD11-TT-4
All 11	Approval J. Woelbern Date 1/4/77		

This tech tip is for cross reference only.

Title SILK SCREEN DECALS		Tech Tip Number PDP 11/34-TT-6	
Author WM. AUPPERLEE		FS Office MAYNARD Date 5/12/77	Revision 0
Processor Applicability		Mgr /Sup JOHN WOELBERN Date 5/12/77	Cross Reference
All 11	Approval	Date	

SOME 11/04'S AND 11/34'S HAVE ARRIVED AT CUSTOMER SITES WITH THE WRONG SILK SCREEN, I.E. A 11/04 HAS THE 11/34 SILK SCREEN, PRESENTLY THERE EXISTS A ADHESIVE BACKED DECAL THAT CAN BE PLACED OVER THE SILK SCREEN. THE PART #'S FOR THE ADHESIVE BACKED DECALS ARE AS FOLLOWS.

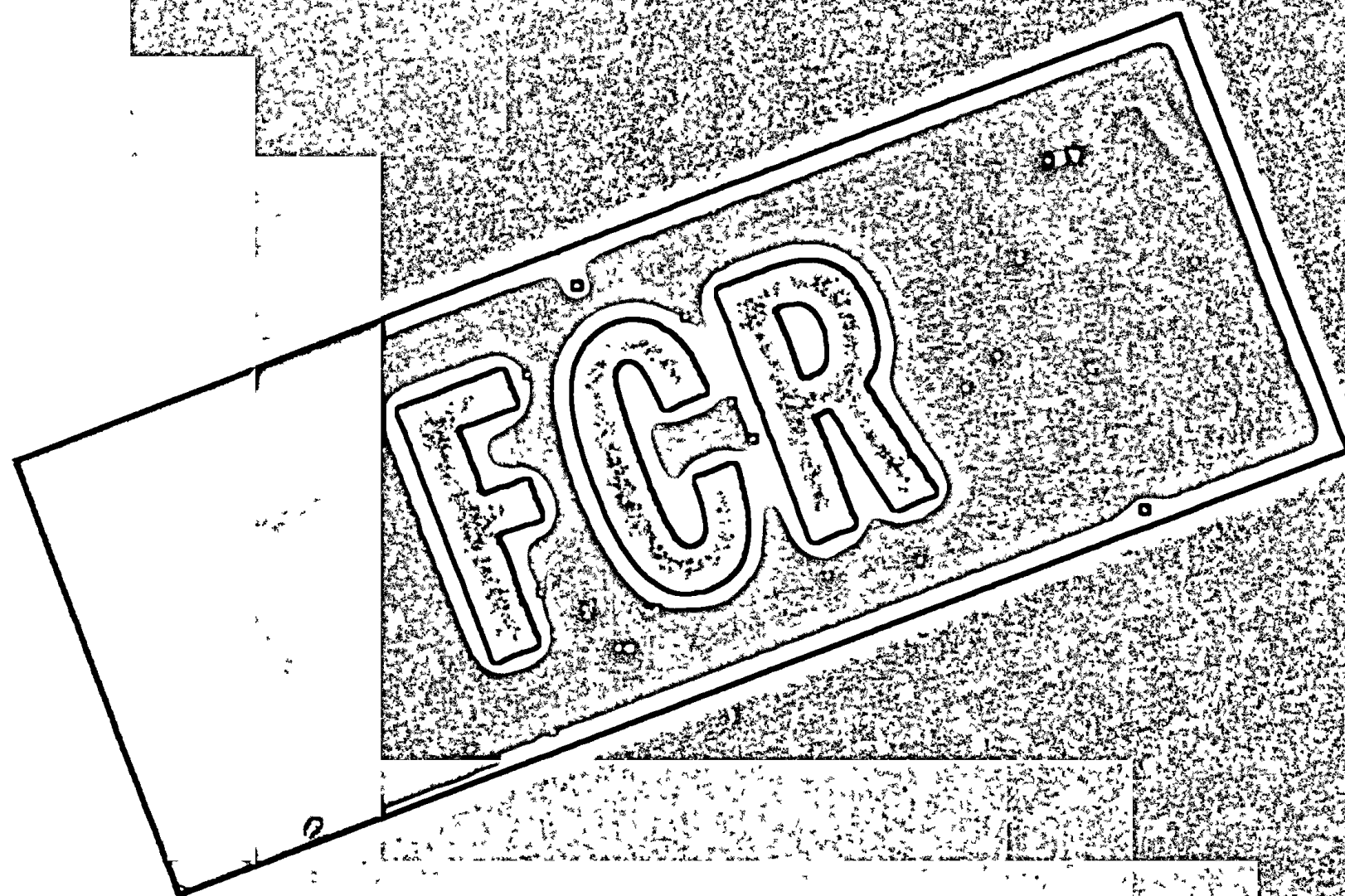
11/04 36-13359-00
 11/34 36-13359-01

Title POOR SOLDER CONNECTIONS ON EXPANDER BACKPLANES		Tech Tip Number PDP 11/34-TT-7	
Author WM. AUPPERLEE		FS Office MAYNARD Date 5/12/77	Revision 0
Processor Applicability		Mgr /Sup JOHN WOELBERN Date 5/12/77	Cross Reference DD11-TT-5
All	Approval	Date	

THIS TECH TIP IS FOR CROSS REFERENCE ONLY.

Title LOSS OF -9V ON-BOARD REGULATOR ON KY11-LB		Tech Tip Number 11/34-TT-8	
Author POWDERLY/AUPPERLEE		FS Office MAYNARD Date 8/7/77	Revision 0
Processor Applicability		Mgr /Sup	Cross Reference KY11-TT-5
All 11/34 34A 04	Approval J. WOE L RN Date 8/7/88	Date	

THIS TECH TIP IS FOR CROSS REFERENCE ONLY.



PDP11/34
PDP11/34 PROCESSOR
FCO Cross Reference

A Chronological Listing of Field Retrofit FCO's Which Must Be
Considered in the Field Installation and Maintenance of This Option/Module/Power Supply

• Indicates FCO Conjunction Must Be Considered With Prior FCO

- 1** M7015 A0002 JAN 73
QUICK SYNOPSIS
Bits picked up in DMA data transfer. Disables
CO1 during Data/Bus times
QUICK CHECK
Etch cut between E17 pin 5 and E17 pin 6
NEW REVISION
Rework etch B and C to CS E
- 2** M7015 B0004 SEP 73
QUICK SYNOPSIS
ADD's 80 nsec R/C delay to select lines for
RSTS11
QUICK CHECK
Wire ADD from bottom of R63 to E17 pin 6
NEW REVISION
Rework etch B and C to CS E
- 3** M7014YA-B0003 MAR 74
QUICK SYNOPSIS
GT44 hangs when restarted in Vector Normal
ize Routine
QUICK CHECK
Wire ADD from E33 pin 9 to feed thru near
E50 pin 1
NEW REVISION
Rework etch B to CS C
- 4** M7014YA C0005 JAN 75
QUICK SYNOPSIS
Grant Line reflections cause double grants
QUICK CHECK
180 ohm terminator R90 at E73 pin 5
NEW REVISION
Rework etch B to CS E
- 5** M7867 R0001 JUL 76
QUICK SYNOPSIS
Allows module installation on a DD11 D back
plane
QUICK CHECK
Jumper wire on CB2
NEW REVISION
Rework etch D to CS D
COMPATIBILITY
M7867 must be at CS D or later when in
stalled on a DD11 D backplane
- 6** M7014YA S0006 NOV 76
QUICK SYNOPSIS
DPC can not be loaded by a MOV instruction
using an 11/34
QUICK CHECK
IC 7402 ADDed as E83
NEW REVISION
Rework etch B to CS F
COMPATIBILITY
M7014 YA must be at Revision F or later
when VT11 is used with PDP11/04 or 11 34
- 7** DD11D R0004 NOV 76
QUICK SYNOPSIS
Eliminates noise on INIT and NPR lines
QUICK CHECK
Twisted pair on A04A1
NEW REVISION
Rework to Wire List A
- 8** DD11P R0003 NOV 76
QUICK SYNOPSIS
Eliminates noise on IN T and NPR lines
QUICK CHECK
Twisted pair on A04A1
NEW REVISION
Rework to Wire List B
- 9** DR11B S0015 NOV 76
QUICK SYNOPSIS
Bus hangs with NPG and BR5 asserted. Fails
MAINDEC 11 DZDRB
QUICK CHECK
Wire ADD E03K2 to E02U1
- 10** M7265 S0002 NOV 76
QUICK SYNOPSIS
Prevents glitching on data lines after receipt of
SSYN
QUICK CHECK
E112 is a 74S64 IC
NEW REVISION
Exchange with CS D or later
COMPATIBILITY
When DH11 is used on PDP11 34 M7277
must be at CS K and M7265 at CS D or later

**PDP11/34
PDP11/34 PROCESSOR
FCO Cross Reference**

**A Chronological Listing of Field Retrofit FCO's Which Must Be
Considered in the Field Installation and Maintenance of This Option/Module/Power Supply**

• Indicates FCO Conjunction Must Be Considered With Prior FCO

- | | |
|--|---|
| <p>11 5411800-S0001 NOV 76
QUICK SYNOPSIS
Strengthens programmer's console keypad
QUICK CHECK
Presence of 70 13177 Keyboard support
NEW REVISION
Rework etch C to CS C</p> | <p>16 M7266 S0004 JAN 77
QUICK SYNOPSIS
Inability to process a HALT INSTRUCTION
QUICK CHECK
Wire ADD E19 pin 7 to pin 7
NEW REVISION
Rework etch B to CS D and CS B1</p> |
| <p>12 M7277 R0008 NOV 76
QUICK SYNOPSIS
Required for DH11 use on PDP11 34 systems
QUICK CHECK
9602 IC ADD ed as E2
NEW REVISION
Exchange new CS K
COMPATIBILITY
M7277 must be at etch C CS K or later when
DH11 is used on PDP11/34 systems</p> | <p>17 M7015 S0007 JAN 77
QUICK SYNOPSIS
Logic change allows interrupt requests to be
deferred until BG level is dropped
QUICK CHECK
IC 314 ADD ed as E38
NEW REVISION
Exchange with CS H1
COMPATIBILITY
M7015 must be at CS H1 in LPS11's that
cannot be placed at end of the unibus</p> |
| <p>13 M7822 S0009 DEC 76
QUICK SYNOPSIS
Data bit B is gated only at or previous to
SSYNC assertion during a DATIP
QUICK CHECK
Wires ADD ed at E8 and E71
NEW REVISION
Rework etch C D E to CS M</p> | <p>18 M7867 R0002 FEB 77
QUICK SYNOPSIS
Transmitter hang in an illegal ROM state
QUICK CHECK
Wire ADD from E83 pin 7 to E83 pin 11 E48
is ROM 23345A2
NEW REVISION
Rework etch D to CS F</p> |
| <p>14 M7856 S0002 JAN 77
QUICK SYNOPSIS
Allows transmit and receive at high baud rate
QUICK CHECK
Jumper E48 pin 4 to E45 pin 4
NEW REVISION
Rework etch D to CS E</p> | <p>19 5411497 S0001 MAR 77
QUICK SYNOPSIS
Corrects Power Fail sequencing when KY11
LA is used on BA11 K
QUICK CHECK
Etch cut between TB4 and TB5
NEW REVISION
Rework etch E to CS E</p> |
| <p>15 11/34 R0003 JAN 77
QUICK SYNOPSIS
ADDs NO SACK TIME OUT Module
(M8264) to 11/34
QUICK CHECK
M8264 in slot 3 C D E F</p> | |

**PDP11/34
PDP11/34 PROCESSOR
FCO Cross Reference**

**A Chronological Listing of Field Retrofit FCO's Which Must Be
Considered in the Field Installation and Maintenance of This Option/Module/Power Supply**

• Indicates FCO Conjunction Must Be Considered With Prior FCO

20 M7822 S0011 JUL 77

QUICK SYNOPSIS

Requires relocation of R52 to prevent break
age

QUICK CHECK

D664 ADD ed across R29 located between
E53 and E47

NEW REVISION

Rework etch C D and E to CS P

22 DD11C-S0003 DEC 77

QUICK SYNOPSIS

Defines in the Field Maintenance Print Set the
correct backplane wiring for +5 volt regu-
lators

QUICK CHECK

Drawing D IA 7011528 0 0 sheet 1 of 1 is
at revision C

21 M7060-R0001 JUL 77

QUICK SYNOPSIS

LK11/PDP11/34 A Compatibility

QUICK CHECK

Wire ADD ed to feed thru to left of E31 pin 1

NEW REVISION

Rework etch B to CS B

COMPATIBILITY

M7060 must be CS B or later to run on an
11/34 A

11 M7014YA R0008 AUG 77

QUICK SYNOPSIS

Eliminates relative point distortion

QUICK CHECK

Wire ADD E80 pin 1 to E81 pin 10

NEW REVISION

Rework etch C to CS J

13 11/34 S0007 SEP 77

QUICK SYNOPSIS

Defines in the Field Maintenance Print Set the
correct backpanel wiring of +5 volt and ± 15
volt regulators

QUICK CHECK

Drawing E UA 11/34 0 0 sheet 1 of 3 is at
revision H

24 FP11AU S0002 OCT 77

QUICK SYNOPSIS

Defines in the Field Maintenance Print Set the
correct backplane wiring of +5 volts

QUICK CHECK

Sheets 1 and 2 of drawing D MU FP11 AU 1
are at revision A

PDP 11/34A



11/34A
PROCESSOR

PROCESSOR TYPE PDP 11 FAMILY

11/34A-00001 CODE D
FEB 77
CORRECTION Change BA11 L variation descriptions from MOS only to CORE/MOS items 10 11 12 and 13 on drawing C PL 1134A O D
IN PLANT EFFECTIVITY Documentation update only

11/34A-00002 CODE D
MAR 77 CORRECTIONS Add console cable 7011411 2J to the 11/34A Print Set This cable is used to connect the KY11 LA to the H785/H7850 battery backup regulator
IN PLANT EFFECTIVITY Phase in on or before April 15 1977

11/34A-00003 CODE D
APR 77 PROBLEM 1 Slides are interfering with decals in their present location when the unit is tilted or extended
CORRECTION 1 Relocate decals to the louvered section of the chassis above the slides
PROBLEM 2 UL and UFPA decals are called out at both BA11 K and processor levels
CORRECTION 2 Delete UL and NFPA decals from processor level
PROBLEM 3 Reference designations J13-J16 do not conform to changes made on Power Distribution Board 54 10864
CORRECTION 3 Change reference designations to P13 P16
PROBLEM 4 KY11 LA and LB bezels are difficult to assemble to the main chassis (or 105 only)

CORRECTION 4 Create new bracketry to fasten bezel to chassis
PROBLEM 5 Air filters require excessive time to change The finished unit protrudes out of the cabinet 38 causing esthetic problems (on 105 only)
CORRECTION 5 Create new bracketry allowing equipment slides to fasten on to opposite side of cabinet rails
IN PLANT EFFECTIVITY All units shipped from AG Aguadilla and Galway on or before July 11 1977 have new bracket RY Westminster Kanata Galway and AYR all units shipped from FA&T areas on or before July 11 1977

11/34A-00004 CODE F
OCT 77 PROBLEM SYMPTOMS +5 volt and ± 15 volt regulators may be severely damaged
PROBLEM When installing FP11 AU on older 11/34s it's possible to interconnect two regulated +5V supplies
CORRECTION On drawing E UA 11/34A O D sheet 1 of 3 Restate Note 5 to read when the DD11 PK is used with a BA11 K expansion box without battery back up install jumpers from 15 to 15B +15 to +15B and +5 to +5B Add note 16 BA11 Ks that use the 5410864 YA 1 Power distribution (i.e. 11/34A 11/34 with FP11 AU and some 11/04s) and have one DD11 CK (or an additional DD11 DK) can only have the +5 to +5V jumper in one of the backpanels If two of the backpanels have the jumper in the +5V regulators may be interconnected
IN PLANT EFFECTIVITY (May 1977) Documentation change only
FIELD EFFECTIVITY Update the Field Maintenance Print Set using the Revised Print Package in every site where there is a PDP 11/34A
COMPATIBILITY When an FP11 AU is installed on an 11/34 the FCO must be incorporated
Time to Install and Test N/A hr
Documentation \$5.00 Parts NONE
The DEC on site labor charge will be the time required to install and test the FCO at the then current hourly rate
FCO KIT ORDERING
FA 02025 00 FCO and PRINTS
FA 02025 01 FCO only
FA 02025 02 PRINTS only

FECO'S



FIELD CHANGE ORDER

FCO PDP 11/34A 5 0004 PAGE 1 of 1

STATUS	FCO EXPENSE RESPONSIBILITY		
	WARRANTY	E	PER CALL
Mandatory	DIGITAL		
Required			LIST
Specification			LIST
Improvement			LIST
Hardware Substitution	PURCHASABLE OPTION		
Comments	LIST	LIST	LIST

ESTIMATED TIME TO INSTALL and TEST (on site)
(Travel time not included)
N/A
DECIMAL HOURS

11/34A
FP11-A
DD11-C } FCR
DD11-D
DD11-E
MAY '77

APPLICABILITY
UPDATE THE FIELD MAINTENANCE PRINT SET, USING THE REVISED PRINT PACKAGE, IN EVERY SITE WHERE THERE IS A PDP 11/34A.

THE FOLLOWING NOTES HAVE BEEN ADDED TO DRAWING E-UA-1134A-0-0, SHEET 1 OF 3, REVISION 'D':

- CHANGE NOTE 5 ON SHEET 1 TO READ AS FOLLOWS:
WHEN THE DD11-PK IS USED WITH A BA11-K EXPANSION BOX WITHOUT BATTERY BACK-UP (I.E., NO H785 OR H7850), INSTALL THE THREE JUMPERS SHOWN:
A) -15 TO -15B
B) +15 TO +15B
C) +5 TO +5B (SEE NOTE 16)
USE #20 INSULATED BUS WIRE ON SIDE 2. THIS WILL PROVIDE POWER TO THE MOS MEMORY VOLTAGE RAILS.
- ADD AS NOTE 16 ON SHEET 1 THE FOLLOWING:
BA11-K'S THAT USE THE 5410864-YA-1 POWER DISTRIBUTION (I.E., 11/34A, 11/34 WITH FP11-AU, AND SOME 11/04'S) AND HAVE ONE DD11-CK (OR AN ADDITIONAL DD11-DK) CAN ONLY HAVE THE +5 TO +5B JUMPER IN ONE OF THE BACKPANELS. IF TWO OF THE BACKPANELS HAVE THE JUMPER IN, THE +5V REGULATORS MAY BE CONNECTED TOGETHER. TYPICALLY THIS JUMPER IS IN THE FIRST BACKPANEL, BUT IT MAY BE PLACED IN ONE OF THE OTHER BACKPANELS IF DEEMED NECESSARY FOR POWER REQUIREMENTS.

(On site P.C.U. installation by ENG will be in accordance with APPLICABILITY and the above FCO EXPENSE RESPONSIBILITY matrix)

USER CHECK (To determine if P.C.U. has been installed)

DRAWING E-UA-1134A-0-0, SHEET 1 OF 3, AT REVISION 'D'

LAST PREVIOUS FCO: NONE

RELATED OR PREREQUISITE FCO: NONE

FCO KIT CHARGES (United States and Canada only)

ALL ITEM	IMPLEMENTATION	PARTS	OTHER
FCO PRINTS	\$5.00	NONE	

Parts charges are as of FCO release date and are subject to change

PARTS AVAILABILITY DATE: _____

LEAD TIMES (DAYS): (400) (0) (400)

LEAD TIMES REVIEW: _____

ORDER BY THIS NUMBER	KIT INCLUDES	
	FCO PRINTS	PARTS
FA-02025-00	X	X
FA-02025-01	X	
FA 02025-02		X

PROBLEM SYMPTOMS: +5 VOLT AND ± 15 VOLT REGULATORS MAY BE SEVERELY DAMAGED.
COMPATIBILITY NOTE: WHEN AN FP11-AU IS INSTALLED ON AN 11/34, THIS FCO MUST BE INCORPORATED.

APPROVED: Field Service Product Support
William Aupperlee
WILLIAM AUPPERLEE

DISTRIBUTION CODING:
 To all Field Offices
 To Regional Offices
LIST 11
LIST 300
P []
M []
INQ 400
700

APPROVED: Technical Documentation
Al Kimmel
FCO RELEASE DATE
SEPTEMBER 30, 1977

FCO 11/34A-50004

REVISED PRINT PACKAGE

SEPTEMBER 9, 1977

THIS PACKAGE INCLUDES SELECTED PRINTS WHICH ARE SPECIFICALLY REQUIRED IN THE FIELD FOR FCO IMPLEMENTATION AND/OR FOR THE UPDATING OF THE CUSTOMER PRINT SET (FIELD MAINTENANCE PRINT SET) TO THE PROPER REVISION LEVEL FOR THE FCO

DRAWING	SHEET	REVISION
E-UA-11/34A-0-0	1 OF 3	'D'

DISTRIBUTION CODING(E20-07846)		(121714)	SPO
<input type="checkbox"/> All Field Offices	Lot 11	LSC FA-02025-02	
<input checked="" type="checkbox"/> Regional Offices	FOO 45	LKO 400	
<input type="checkbox"/>	P 9 24	M 10 3 77	445

FCR

**PDP 11/34A
PROCESSOR
FCO Cross Reference**

**A Chronological Listing of Field Retrofit FCO's Which Must Be
Considered in the Field Installation and Maintenance of This Option/Module/Power Supply**

• Indicates FCO Conjunction Must Be Considered With Prior FCO

- | | |
|--|--|
| <p>1 H745 D0004 AUG 72
QUICK SYNOPSIS
Prevents memory loss during power turn off
QUICK CHECK
C12 is 15 mfd
NEW REVISION
Rework etch E to CS F</p> | <p>2 M7015 S0007 JAN 77
QUICK SYNOPSIS
Logic change allows interrupt requests to be deferred until BG level is dropped
QUICK CHECK
IC 314 ADD ed as E38
NEW REVISION
Exchange with CS H1
COMPATIBILITY
M7015 must be at CS H1 in LPS11's that cannot be placed at the end of the unibus</p> |
| <p>2 M7015 A0002 JAN 73
QUICK SYNOPSIS
Bits picked up in DMA data transfer disables CO1 during Data/Bus times
QUICK CHECK
Etch cut between E17 pin 5 and E17 pin 6
NEW REVISION
Rework etch B and C to CS E</p> | <p>2 11/34A S0004 SEP 77
QUICK SYNOPSIS
Defines in the Field Maintenance Print Set the correct backplane wiring for +5 volt and ±15 volt regulators
QUICK CHECK
Drawing E UA 1134A 0 0 sheet 1 of 3 at Revision D
COMPATIBILITY
When an FP11 AU is installed on an 11 34 this FCO must be installed</p> |
| <p>2 M7015-B0004 SEP 73
QUICK SYNOPSIS
ADD's 80 nsec R/C delay to select lines for RST511
QUICK CHECK
Wire ADD from bottom of R63 to E17 pin 6
NEW REVISION
Rework etch B and C to CS E</p> | <p>2 H754 S0015 OCT 77
QUICK SYNOPSIS
Loss of H754 power and recovery after powering down and up nuisance crowbar condition
QUICK CHECK
Capacitor C7 changed from 01 mfd to 22 mfd
NEW REVISION
Rework etch J to CS S</p> |
| <p>2 H754 D0006 APR 74
QUICK SYNOPSIS
Relocates 5V adjustment potentiometer for easier adjustment (In plant new etch H at CS H)
QUICK CHECK
Presence of pot adjacent to +20V pot at front of the module</p> | <p>2 DD11C S0003 DEC 77
QUICK SYNOPSIS
Defines in the Field Maintenance Print Set the correct backplane wiring for +5 volt regulators
QUICK CHECK
Drawing D IA 7011528 0 0 sheet 1 of 1 is at revision C</p> |
| <p>2 H745 S0015 SEP 74
QUICK SYNOPSIS
Transitory line voltage failures trip +15V crowbar circuit needlessly
QUICK CHECK
C12 R24 D2 and D7 DELETED
NEW REVISION
Rework etch E to CS S</p> | |

**PDP 11/34A
PROCESSOR
FCO Cross Reference**

**A Chronological Listing of Field Retrofit FCO's Which Must Be
Considered in the Field Installation and Maintenance of This Option/Module/Power Supply**

• Indicates FCO Conjunction Must Be Considered With Prior FCO

III M8265 S0003 DEC 77

QUICK SYNOPSIS

Defines in the Field Maintenance Print Set the
correct pin designations for J1

QUICK CHECK

Sheets 2 and 6 of drawing D CS M8265 0 1
are at Revision C

NOTE

The following FCR's are to be considered for
this FCR KD11 E KY11 LA DD11 P
BA11 K