

DIGITAL	FCO	CATEGORY [0]	PAGE 1 OF 5
---------	-----	-----------------	----------------

FIELD CHANGE ORDER	NUMBER: KN430-0003 FT810-0002
--------------------	----------------------------------

APPLICABILITY: This "0" coded FCO must be installed in all DEC 4000-6XX AXP and VAXFT Model 810 systems that contain a 20A FEU (H7884-AA).

This FCO incorporates ECO No. H7884-TWO003.

PROBLEM & SYMPTOM:

Problem: High ground currents in H7884-AA cause random system errors.

Symptom:

1. DEC4000-6XX systems hang randomly.
2. DEC4000-6XX systems exhibit power-up random (PSC error code 9) failures.
3. DEC4000-6XX systems' PSC reports fan speed errors randomly.
4. VAXft810 systems (see above)

SOLUTION: Install a new FEU H7884-AA (part revision D06).

(Refer to APPLICABILITY section)

QUICK CHECK:

If the system contains a 20A FEU (H7884-AA, part revision below "D06") it needs this FCO.

PRE/COREQUISITE FCO: N/A	HRS	1 hr.
--------------------------	-----	-------

TOOL/TEST EQUIPMENT:

Field Service Tool Kit
Electrostatic Field Service Kit

FCO PARTS INFORMATION

FCO KIT NO.	DESCRIPTION OF CONTENTS
EQ-01688-01	H7884-AA 20 AMP FEU
FA-05024-01	FCO DOCUMENT

FCO CHARGING INFORMATION (See Last Page)

APPROVALS

TECH. ENGINEER Bharat Shah	BUSINESS MGR. Mike Collins	DSHQ LOGISTICS Barry Weinstein	DS PRODUCT SAFETY Robert Brister
-------------------------------	-------------------------------	-----------------------------------	-------------------------------------

```

- - - - -
| | | | |
| d | i | g | i | t | a | l |
| - | - | - | - | - | - |

```

```

FCO KN430-0003
FT810-0002
PAGE 2 OF 5

```

Installation Procedure For All 4000-6xx Systems

Note: Please also refer to "DEC 4000 Model 600 AXP series Power Supply Upgrade Instructions Manual", Part no. EK-20AMP-UP for upgrade installation instructions.

1. Shut down the operating system: Have the customer notify all affected system users and shutdown the operating system.
2. Halt the system: Once the operating system has been shutdown, press the HALT button on the Operator Control Panel (OCP) and leave it "in" (halted).

```

*****
*                               C A U T I O N                               *
*                               *                                           *
* All modules contains electrostatic discharge sensitive *
* devices (ESDS). The use of the VELOSTAT kit is essential *
* to prevent damage which may not be noticed immediately. *
*****

```

3. Set up VELOSTAT KIT
 - a) Unfold the VELOSTAT mat to full size (24" x 24").
 - b) Attach the 15 foot ground cord to the VELOSTAT snap fastener on the mat.
 - c) Attach the alligator clip end of the ground cord to a good ground.
 - d) Attach the wrist strap to either wrist and the alligator clip to a convenient portion of the mat.
 - e) Remove the module from the spares kit and place it on the mat.

```

*****
*                               C A U T I O N                               *
*                               *                                           *
* If using a module in an ESD box, insure wrist strap is *
* connected to the box and the box is connected to chassis *
* of the device being upgraded. *
*****

```

4. Power down/unplug system: Turn off the DC on/off switch on the OCP: wait for the fans to stop (takes less than 30 seconds), and then turn off the AC circuit breaker at the rear of system. Unplug the system power cord from the wall receptacle.

```
  _ _ _ _ _  
 | | | | |  
 |d|i|g|i|t|a|l|  
 | _ _ _ _ _
```

```
FCO KN430-0003  
FT810-0002  
PAGE 3 OF 5
```

Removal and Replacement of Power Subsystem in DEC4000 Model 6XX Systems

5. Unscrew and remove the fan cover from the rear of the system (refer to the figure on page 3 of the manual).
6. Unscrew and remove the FEU (H7884-AA).
7. Install the new 20A FEU (H7884-AA).
8. Reinstall the fan cover.

Note: Be sure to seat the fan cover correctly. An incorrectly seated fan cover will not close the interlock switch. This condition is indicated by a 9 (hex) fan fault error and the fan failure LED will remain on.

9. After ensuring halt switch is "in" (system halted), power up system: set AC circuit breaker and DC on/off switch to on.
10. System verification test: Observe console terminal for correct power up sequence.

If the power up sequence is correct and no errors are indicated, proceed to Step 20.

If the power up self tests indicate an error refer to the "DEC 4000 AXP Model 600 Series Service Guide", Part No. EK-KN430-SV, for further information.

11. Reboot system: Place system in Run mode (halt switch "OUT") and type "BOOT" at the console prompt, >>>. The system will initiate the boot sequence from the default boot device.

```
>>> boot
```

Installation Procedure For All VAXFT Model 810 Systems

1. Ask the operator or system manager to shut down the zone using the procedure in section 5.3.2 of Model 810 service information, Part No. EK-VXFTA-SI.
2. Open the rear door of the cabinet.
3. Set the FEU circuit breaker to the off position.
4. Disconnect the ac power cable from the FEU.
5. Loosen the screws that secure the module in the cabinet. The FEU is secured with four screws.
6. Grasp the module release handles and pull the power module out of the cabinet.

Final Steps For All Systems

1. Report this FCO activity on the LARS form in the "Fail Area/Module/FCO/Comments" column as follows: FCO KN430-0003 or FT810-0002
(See the LARS example on page 5).
2. Clean-Up: Individually tag the FEU as indicated below:

Part No. H7884-AA
Rev. Insert part rev from module here
Reason for return FCO
Comments FCO KN430-0002 or FT810-0002
3. Package the FEU into the container from the kit and return through normal logistics channels.

LARS

CATEGORY F	USA	GIA	EUROPE
Activity -			
(a)Contract	W	U	K
Warranty	W	U	W
(b)IN-DEC Contract	K	U	A
Non Contract/Non Warranty	F	F	F
(c)RTD/Off-site Agreement	F	U	F
Hardware Segment Code	111	111	111
Product Line	031	031	031
DEC Option	H7884	H7884	H7884
Option ID	X	N/A	N/A
Type of Call	M	M	M
Action Taken	D	D	I/V
Fail Area-Module-FCO-Comments	KN430-0003	KN430-0003	KN430-0003
	FT810-0002	FT810-0002	FT810-0002
Material Used	EQ-01688-01	EQ-01688-01	EQ-01688-01

(a) Warranty Optimum, Warranty Standard and Warranty Basic (on-site) Agreements; * Note material (only) free of charge for all customers.

(b) Applies to IN-DEC Area Only

(c) RTD=Return to Digital or Off-site Agreements; If Field Engineer On-site, use Activity Code "O".

FCO CHARGING INFORMATION

WARRANTY/CONTRACT				NONWARRANTY/NONCONTRACT				
ON-SITE		OFF-SITE		ON-SITE		OFF-SITE		MATERIAL ONLY
TRAVEL/	EQ		EQ	TRAVEL/	EQ		EQ	ORDER-ADMIN, HANDLING
INSTALL	KIT	INSTALL	KIT	INSTALL	KIT	INSTALL	KIT	PKG, SHIPPING & EQ KIT
DEC	DEC	DEC	DEC	CUST	CUST	CUST	CUST	CUST