

FCO 82XBX-M001, BBU may activate, causing hazardous condition.

DIGITAL	FCO	LEVEL OF URGENCY	PAGE 1 OF 6
		[M]	

FIELD CHANGE ORDER NUMBER: 82XBX-M001

APPLIC: Retrofit all VAX 8200 systems (82XBX) Configuration 1 & 2 to upgrade the Battery Backup Unit H7231-L to Rev. "C1". This FCO incorporates the following ECO: 7020826-LTN001 - New Part Revision "B1"

Field spares stock should also be upgraded.

PROB/SYMPT: See Page 2

QCK CK: See Page 2

COMPATIB/PREREQ: N/A	EST INSTALL TIME 1 hr.
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TOOLS/TEST EQUIP:
Field Service Tool Kit

FCO PARTS INFORMATION

ORDER BY FCO KIT #	CONTENTS		
	QUANTITY	PART NUMBER	DESCRIPTION
EQ-01469-01	1	17-00931-03 Rev "A1"	DEC Power Bus Cable
FA-04656-01	1		FCO Documentation

EQ KIT VARIATION/SYS-OPT APPLICABILITY: N/A

APPROVALS

CSSE ENGINEER Jim Riddle	F.S. PRODUCT SAFETY Jerry Gannelli	F.S. LOGISTICS ED DUGGAN
RESPON. CSSE MANAGER Jan Sicard	F.S. MICROFICHE LIBS EP-FSNVX-LB VAX	AFFECTED POPULATION 600
MICROMEDIA PUBLISHING Ray LeBlanc	VAXnotes	INITIAL KITTING 600

REVISION

A

HARDCOPY PUBLICATION

800

FCO RELEASE DATE

17-APR-87

PARTS AVAILABILITY

May 1987

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PROBLEM/SYMPTOM: (Continued from page 1)

In the event of an airflow reduction or an over-temperature condition within the 8200 Configuration I or II systems, the H7231 BBU (Battery Backup) option may become active. This condition will occur if the H7231 was installed "without" the DEC PWR BUS cable connected to the 877 power controller. Once the BBU has become active it will supply a 250 VDC potential to the H7251 regulator within the power supply, this regulator inturn provides +5B to the memory arrays and 24 VDC to the blower motor. If the memory arrays remain active without proper cooling they will soon overheat and be destroyed. Another hazard exists without the DEC PWR BUS connected to the power controller during system servicing. If power is cycled off via the rear circuit breaker(s), and the front panel rotary switch remains in the enable position the H7231 will become active. If this should occur, again a 250 VDC potential will be supplied to the regulators, creating a very hazardous service condition.

QUICK CHECK: (Continued from page 1)

Configuration 1:

Open the front panel of the system cabinet and check for the absence of the DEC PWR BUS cable running from the 877 Power controller to the rear of the H7231 Battery Backup Unit.

Configuration 2:

With the rear door removed, use a flashlight or other light source and carefully check at the rear of the H7231 for the absence of the DEC PWR Bus cable.

FCO Procedures for VAX 82XX Configuration 1:

1. Shut down the system by executing the Shutdown Command Procedure.

\$ @SYS\$SYSTEM:SHUTDOWN
2. Remove the processor cabinet front and rear doors and fully extend the cabinet stabilizer leg.
3. Turn the upper keyswitch on the console panel fully counterclockwise and slide the BA32 system box out of the cabinet. Set the main circuit breaker at the back of the BA32 box to the "OFF" (down) position.

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4. From the front of the cabinet, install one end of the DEC Power Bus Cable (EQ-01469-01) on the the H7231 (see figure 1, page 5).
5. Plug the other end into the 877 Power Controller (see figure 3, page 5).
6. Perform the following test:

Power up the CPU by turning on the Circuit Breaker on the back of the BA32 box to the ON (1) position and turning the upper keyswitch on the front console panel to ENABLE. Observe BBU status LED on the front panel. It should be slowly blinking, indicating the batteries are charging, or on steady indicating fully charged batteries. Now at the rear of the BA32 turn off the Circuit Breaker and again observe the BBU status LED. This time it should NOT be illuminated, indicating the BBU is disabled.
7. Slide the BA32 box back into the cabinet making sure that cables are not harmed and retract the stabilizer leg.
8. Replace and latch the processor cabinet front and rear doors.
9. Bring up the Operating System.
10. Update the Site Management Guide to reflect this FCO.
11. Report this FCO activity on the LARS form in the "Fail Area/Module/FCO/Comments" column as follows: FCO 82XBX-M001.

1. Shut down the system by executing the Shutdown Command Procedure.

\$ @SYS\$SYSTEM:SHUTDOWN
2. Remove the processor cabinet rear door.
3. Turn the upper keyswitch on the console panel fully counterclockwise and set the main circuit breaker at the back of each AC input assembly to the "OFF" (down) position.
4. Remove the two 11/32 captive nuts holding BBU in place (see figure 2, page 5) and slide the unit away from the BI cages far enough to gain access to the DEC Power Bus plug.

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5. Install one end of the DEC Power Bus Cable (EQ-01469-01) on the back of the H7231 (see figure 1, page 5).
6. Plug the other end into the Power Controller (see figure 3, page 5).
7. Replace the two 11/32 captive nuts holding the BBU in place (see figure 2, page 5).
8. Perform the following test:

Power up the CPU by turning both Circuit Breakers on each AC input assembly to the ON (1) position and turning the upper keyswitch on the front console panel to ENABLE. Observe BBU status LED on the front panel. It should be slowly blinking, indicating the batteries are charging, or on steady indicating fully charged batteries. On System II configuration only one power supply is backed up by the H7231. This will be the supply providing +5B to the memory arrays. Locate the correct Circuit Breaker for this supply and turn it off. Observe the front panel making sure that the BBU status LED is NOT illuminated, indicating the H7231 is disabled.
9. Replace and latch the processor cabinet rear door.
10. Bring up the Operating System.
11. Update the Site Management Guide to reflect this FCO.
12. Report this FCO activity on the LARS form in the "Fail Area/Module/FCO/Comments" column as follows: FCO 82XBX-M001

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Figure 1 - Battery Backup Unit

Figure 2 - BBU showing captive nuts

Figure 3 - Power Controller

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LARS

	USA & GIA	EUR
Activity -		
Contract and Warranty	W or	Y or
Non Contract/Non Warranty	F	F
DEC Option	8200	8200
Type of Call	M	M
Action Taken	D	I
Fail Area-Module-FCO-Comments	82XBX-M001	82XBX-M001
Material Used	EQ-01469-01	EQ-01469-01

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