 d i g i t a 1 _ _ _ _ _ _	FCO	of Urgency Page_1_ ++ Of_10 I ++							
FIELD CHANGE ORDI	ER I	Jumber: DWBUA-1002							
are configured with	Applicability: Retrofit all 82XX, 83XX, 85XX, 87XX and 88XX systems which are configured with a DWBUA and Batterybackup options. Field spares stock should also be upgraded. FCO incorporates ECO T1010-MK010								
Problem/Symptom: A restart.	After a powerfail, system w	ill bugcheck when doing a warm							
Quick Check: Revis	sions "H1-H7" - Check for 2	3-329F4-00 at location E67.							
	Compatibility/Prerequisite FCO:Est. Time to Install:DWBUA-R001 (T1010-Rev "F")1 hour								
Special Tools or Te	est Equipment: See Page 2 FCO Parts Informa	ation							
	Quantity: Part Numbe:	: Description:							
FCO Kit#: EQ-01509-01 FA-04805-01	1 1	See Page 2 FCO Document							
EQ Kit Variation Sys	stem/Option Applic: N/A								
	Approvals								
CSSE Engineer Jim Vermette	F.S. Product Safety Robert Brister	F.S. Logistics Ed Duggan							
CSSE Manager Jan Sicard	F.S. Microfiche Libraries	Affected Population: 3500							
ESD&P Micropub. Ray LeBlanc	_ VAXnotes STARS	Initial Kitting: 3500							
Revision: A		Hardcopy Publication: 3500							
FCO Release Date	- 1	Parts Availability:							

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June 1988

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SPECIAL TOOLS: Continued from page 1

Field Service Tool Kit.

VELOSTAT Electrostatic Field Service Kit (P/N 29-26246-00).

PARTS LIST:

ORDER BY						
FCO KIT#: QUANTITY		PAR	I NUMBER	DESCRIPTION		
EQ-01509-01	1	(1)	23-313F4-00	ROM		
		(1)	23-312F4-00	ROM		
		(1)	23-329F4-00	ROM		
		(1)	36-19208-01	Brady Marke	: "1"	
		(1)	36-19208-02	Brady Marker	2"	
		(1)	36-19208-03	Brady Marker	: "3"	
		(1)	36-19208-04	Brady Marker	c "4"	
		(1)	36-19208-05	Brady Marker	: "5"	
		(1)	36-19208-06	Brady Marker	с "б"	
		(1)	36-19208-07	Brady Marker	<u> </u>	
		(1)	36-19209-08	Brady Marker	: "H"	
FA-04805-01		(1)	FA-04805-01	FCO Document	:	

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I.	Installation	Procedures	for	VAX	82XX/83XX	Configuration	I	3
II.	Installation	Procedures	for	VAX	82XX/83XX	Configuration	II	5
III.	Installation	Procedures	for	VAX	85XX/87XX/	/88xx		7

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Section I - Installation Procedures for VAX 82XX/83XX Configuration 1:

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

\$ @SYS\$SYSTEM:SHUTDOWN

After VMS shuts down, type HALT.... you will now be in console mode PROMPT is >>>

 Turn the upper keyswitch on the console panel fully counterclockwise and set the main circuit breaker at the back of the BA32 box to the "OFF" (0) position.

- * NOTE: The DEC-PWR-BUS cable 17-00931-0X must be in place *
 * between the 877 power controller and the H7231 prior to the *
- between the 877 power controller and the H7231 prior to the *
 BA32 circuit breaker being placed in the off position. If *
- * BA32 circuit breaker being placed in the off position. If *
- * this cable is not in place, battery backup may become
- * activated. The circuit breaker on the 877 power controller *
 * must not be utilized. *
- 3. From the front of the CPU cabinet, fully extend the cabinet stabilizer leg.
- 4. From the rear of the processor cabinet, release the BA32 box track lock.
- 5. Slide the BA32 box out of the cabinet.
- 6. Remove the BA32 box top cover.

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* * * * * * * * * * * * * * * * * * * *					
*		*			
*	CAUTION	*			
*	All modules and chips contain electrostatic discharge	*			
*	sensitive devices (ESDS).The use of the VELOSTAT kit	*			
*	is essential to prevent damage which may not be noticed	*			
*	immediately.	*			
*		*			
* * * *	* * * * * * * * * * * * * * * * * * * *	* * *			

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7. Set up the VELOSTAT Kit:

- Unfold the VELOSTAT mat to full size.
- Attach the 15' ground cord to the VELOSTAT snap fastener on the mat.
- Attach the alligator clip end of the ground cord to a good ground on the system.
- Attach the wrist strap to either wrist and the alligator clip to a convenient portion of the mat.
- 8. Remove the T1010 module from the system and place it on the Velostat mat.
- 9. Check the revision of the module taken from the machine. If the module is at rev H1-H7, it should be reinstalled in the same slot and proceed to step 14. If the module is a Rev F1-F7, go to the next step. NOTE: Only modules at rev F1-F7 can be upgraded with the ROMS in EQ-01509-01. See prerequisite on page 1.
- 10. Unplug ROM P/N 23-253F4-00 from location E51 on the T1010 module. Install new ROM P/N 23-313F4-00 in the same location. (see Figure 1).
- 11. Unplug ROM P/N 23-251F4-00 from location E46 on the T1010 module. Install new ROM P/N 23-312F4-00 in the same location. (See Figure 1).
- 12. Unplug ROM P/N 23-314F4-00 from location E67 on the T1010 module. Install new ROM P/N 23-329F4-00 in the same location. (See Figure 1).
- 13. Return the T1010 module to the same slot from where it was removed.
- 14. Return the lever of the VAXBI cardcage to the locked position.
- 15. Place the top cover on the BA32 box but do not secure it with the 14 screws.
- 16. 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.
- 17. Verify that the module passes self-test by observing that the amber light is illuminated on the T1010 module.
- 18. Secure the BA32 box's top cover.
- 19. Slide the BA32 box back into the cabinet making sure that cables are not harmed and retract the stabilizer leg.

FCO DWBUA-I002

20. Verify the FCO by running EVCBB.EXE.

21. Bring up the Operating System.

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- 22. Update the Site Management Guide to reflect this FCO.
- 23. Report this FCO activity on the LARS for in the "Fail Area/ Module/FCO/Comments" column as follows: FCO DWBUA-I002.

Section II - Installation Procedures for VAX 82XX/83XX Configuration 2:

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

\$ @SYS\$SYSTEM:SHUTDOWN

| | | | | | | |d|i|g|i|t|a|1|

After VMS shuts down, type HALT.... you will now be in console mode PROMPT is >>>

2. Remove the processor cabinet rear door.

	* * * * * * * * * * * * * * * * * * * *	* * * *
	* NOTE	*
	 * The DEC-PWR-BUS cable 17-00931-0X must be in place between the 877 power controller and the H7231 prior to the AC in circuit breaker being placed in the off position. If this cable is not in place, battery backup may become activate 	nput* .s *
	 * The circuit breaker on the 877 power controller must not * be utilized. 	; * *
3.	Turn the upper keyswitch on the console panel fully counterclockwise and set the main circuit breaker at the back each AC input assembly to the "OFF" (0) position.	
	*	* * *
		*
		*
	 * All modules and chips contain electrostatic discharge * sensitive devices (ESDS). The use of the VELOSTAT kit 	*
	* is essential to prevent damage which may not be noticed	*
	* immediately.	*
	*	*
	* * * * * * * * * * * * * * * * * * * *	: * * *

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4. Set up the VELOSTAT Kit:

|_|_|_|_|_|

- Unfold the VELOSTAT mat to full size.
- Attach the 15' ground cord to the VELOSTAT snap fastener on the mat.
- Attach the alligator clip end of the ground cord to a good ground on the system.
- Attach the wrist strap to either wrist and the alligator clip to a convenient portion of the mat.
- 5. Remove the T1010 module from the system and place it on the Velostat mat.
- 6. Check the revision of the module taken from the machine. If the module is at rev H1-H7, it should be reinstalled in the same slot and proceed to step 11. If the module is a Rev F1-F7, go to the next step. NOTE: Only modules at rev F1-F7 can be upgraded with the ROMS in EQ-01509-01. See prerequisite on page 1.
- Unplug ROM P/N 23-253F4-00 from location E51 on the T1010 module. Install new ROM P/N 23-313F4-00 in the same location. (see Figure 1).
- Unplug ROM P/N 23-251F4-00 from location E46 on the T1010 module. Install new ROM P/N 23-312F4-00 in the same location. (See Figure 1).
- 9. Unplug ROM P/N 23-314F4-00 from location E67 on the T1010 module. Install new ROM P/N 23-329F4-00 in the same location. (See Figure 1).
- 10. Return the T1010 module to the same slot from where it was removed.
- 11. Return the lever of the VAXBI cardcage to the locked position.
- 12. 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.
- 13. Verify that the module passes self-test by observing that the amber light is illuminated on the T1010 module.
- 14. Replace and latch the processor cabinet rear door.
- 15. Verify the FCO by running EVCBB.EXE.
- 16. Bring up the Operating System.

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17.	Update the Site Management	Guide to reflect this FCO.	
18.		h the LARS for in the "Fail Area/ h as follows: FCO DWBUA-I002	
Section	III - Installation Procedur	res for VAX 85XX/87XX/88XX.	
1.	Shut down the system by exe	ecuting the Shutdown Command Procedure.	
	\$ @SYS\$SYSTEM:SHUTDOWN		
	After VMS shuts down, type PROMPT is >>>	^P you will now be in console mode	
	At the console prompt type	HALT (CR)	
2.	Using the console command,	power off the system,	
	>>>POWER OFF (CR)		
	(CB1) located near the input	ed down, place the Circuit Breaker at power cord, in the "OFF" (0) s to allow the capacitors to bleed down.	
		* * * * * * * * * * * * * * * * * * * *	
	*	*	
		AUTION * * contain electrostatic discharge *	
	-	S). The use of the VELOSTAT kit *	
		damage which may not be noticed *	
	* immediately.	*	
	*	*	
	******	* * * * * * * * * * * * * * * * * * * *	
3.	Set up the VELOSTAT Kit:		
	 Unfold the VELOSTAT mat t Attach the 15' ground contained the mat. 	to full size. Ind to the VELOSTAT snap fastener on	

- Attach the alligator clip end of the ground cord to a good ground on the system.
- Attach the wrist strap to either wrist and the alligator clip to a convenient portion of the mat.
- 4. Using the hex key, open the doors of the 85XX/87XX/88XX.

Open the air-flow slides in front of the card cage exposing the area around the slot containing the T1010 module.

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- 5. Remove the T1010 module from the system and place it on the Velostat mat.
- 6. Check the revision of the module taken from the machine. If the module is at rev H1-H7, it should be reinstalled in the same slot and proceed to step 12. If the module is a Rev F1-F7, go to the next step. NOTE: Only modules at rev F1-F7 can be upgraded with the ROMS in EQ-01509-01. See prerequisite on page 1.
- 7. Unplug ROM P/N 23-253F4-00 from location E51 on the T1010 module. Install new ROM P/N 23-313F4-00 in the same location. (see Figure 1).
- Unplug ROM P/N 23-251F4-00 from location E46 on the T1010 module. Install new ROM P/N 23-312F4-00 in the same location. (See Figure 1).
- 9. Unplug ROM P/N 23-314F4-00 from location E67 on the T1010 module. Install new ROM P/N 23-329F4-00 in the same location. (See Figure 1).
- 10. Set Circuit Breaker CB1 to the "ON" (1) position. Close and latch cabinet doors.
- 11. Return the T1010 module to the same slot from where it was removed.
- 12. Return the lever of the VAXBI card cage to the locked position.
- 13. Power up the CPU by typing the following command;

>>>POWER ON <CR> at the console.

- a. Type @SYSINIT.COM to initialize CPU.
- b. Run EVCBB.EXE.
- 14. Verify that the module passes self-test by observing that the amber light is illuminated on the T1010 module.
- 15. Bring up the Operating System.
- 16. Update the Site Management Guide to reflect this FCO.
- 17. Report this FCO activity on the LARS for in the "Fail Area/ Module/FCO/Comments" column as follows: FCO DWBUA-I002

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	LARS		
	USA	GIA	EUROPE
Activity -			
Contract and Warranty	W	U	Y
Non Contract/Non Warranty	F	U	F
DEC Option	DWBUA	DWBUA	DWBUA
Type of Call	М	М	М
Action Taken	D	D	I
Fail Area-Module-FCO-Comments			
Material Used	EQ-01509-01	EQ-01509-01	EQ-01509-01

, _ , _ , _ , _ , _ , _ , _ ,	FCO	DWBUA-I002
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FIGURE 1

\^ DWBUA
\\DWBUA
\\VERMETTE
\\1988
\\APR
\\FCO_DOCS