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 d i g i t a 1 _ _ _ _ _ _	FCO	Level c +- C +-	of Urgency +) +	Page 1 Of 10		
FIELD CHANGE ORDE Applicability: Upgr 82XX, 83XX, 8530, 8 Problem/Symptom: Th	R ade all DRB32 700, 88X0, 89 is FCO fixes	Nu -W options on a 74 & 8978. It i a timing descre	amber: DRB32 any VAXBI system incorporates ECO epancy with SYNC	-0002 a, i.e. 62XX, 0 T1023-MK005. 2IN/SYNCOUT		
signals on the DRB32-W option. This problem could cause system crashes. Quick Check: E34 is part number 23-109L1-00.						
Compatibility/Prerequisite FCO: N/A Special Tools or Test Equipment:						
	FCO P	arts Informat	ion			
Order by Q FCO Kit#:	uantity:	Part Number:	Descrip	tion:		
 EQ-01541-01 	(1) (1)	T1023 FA-04847-01	Rev H3 FCO Doc	module sument		
 EQ Kit Variation Sys	tem/Option Ap	plic:				
	Appro	vals				
CSSE Engineer Ken Jackson	F.S. Prod Robert Bri	uct Safety ster	F.S. Logist Bill Stanley	ics		
CSSE Manager	F.S. Microf	iche Libraries B VAX	Affected Popu 260	lation:		
Diane MacDonald	VAXnotes					
Revision: A			Hardcopy Publ 300	ication:		

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v.	LARS Example.			10

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- I. FIELD INSTALLATION AND TEST PROCEDURE FOR 62XX Systems
 - 1. Shut down the system by executing the Shutdown Command Procedure.
 - \$ @SYS\$SYSTEM:SHUTDOWN

After VMS shuts down, type ^P \ldots you will now be at the console mode prompt, >>>

At the console prompt type HALT <CR>

2. Turn the upper key switch on the system's console panel fully counterclockwise. This shuts off the output of the battery backup unit if present. To ensure "Total Off", pull the power circuit breaker on the H405 AC power controller located on the lower right side at the back of the system. Unplug the system. 3. Use ALL ESD safety precautions to prevent DOA modules in upgrade kit.

- 4. Hook the static strap from the system to the ESD case. Hook the other ESD strap to your wrist.
- 5. Remove the module, T1023, from the cardcage and place it on the open top half of the conductive package. Check the revision of the module taken from the machine. If the module is an "H3" reinstall it in the same slot and proceed to step 10. If the module revision is below an "H3" proceed to next step.
- Remove the T1023, "H3" module (EQ-01541-01) from the container. Install it in the same slot from which you removed the old module.
- 7. Complete the Non-Conforming Material Tag and attach the tag to the old module.
- 8. Package the old rev module in the same ESD container and close the case.
- 9. Remove the grounding cable from the ESD container once closed.
- 10. It is IMPERATIVE that the old T1023 module be returned ASAP through normal channels for upgrading.

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11. Plug in the system. Power up the system by pushing the Circuit Breaker to the "ON" position. Turn the upper key switch on the systems console panel clockwise to the "ENABLE" position.

12. Boot the VAX Diagnostic Supervisor (VDS).

* *	* * * * * * * * * * * * * * * * * * * *	* *
*	NOTE	*
*	Before diagnosing the DRB32-W using EVDRI, be sure the DRB32-M	*
*	module (T1022) is fully functional. Only after the DRB32-M is	*
*	known to be good should diagnosing of the DRB32-W take place.	*
*	This will help prevent erroneous testing results. The DRB32-W	*

- 13. Load EVDRI.EXE and test the T1023 module.
- 14. Upon successful completion of the diagnostics exit the VDS.
- 15. Bring up the operating system.
- 16. Update Site Management Guide to reflect this FCO.
- 17. Report FCO activity on LARS form in the "Module/fail area/FCO". (See attached examples.)
- II. FIELD INSTALLATION AND TEST PROCEDURE FOR 82XX/83XX Systems Config. 1
 - 1. Shut down the system by executing the Shutdown Command Procedure.

\$ @SYS\$SYSTEM:SHUTDOWN

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

At the console prompt type HALT (CR)

2. Remove the processor cabinet front and rear doors and fully extend the cabinet stabilizer leg.

	FCO DRB32-0002	
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* *		* *
*	NOTE	*
*	If battery backup H7231 is present as an option, the DEC-	*
*	PWR-BUS cable 17-00931-0X must be in place between the 877	*
*	power controller and the H7231 prior to the 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.	Turn the upper key switch on the console panel fully	
	counterclockwise and slide the BA32 system box out of the c	abinet.
	Set the main circuit breaker at the back of the BA32 box t	o the
	"UFF'" (down) position. Remove the BA32 top cover.	

4. Use ALL ESD safety precautions to prevent DOA modules in upgrade kit.

- 5. Hook the static strap from the system to the ESD case. Hook the other ESD strap to your wrist.
- 6. Remove the module, T1023, from the cardcage and place it on the open top half of the conductive package. Check the revision of the module taken from the machine. If the module is an "H3" reinstall it in the same slot and proceed to step 11. If the module revision is below an "H3" proceed to the next step.
- Remove the T1023, "H3" module (EQ-01541-01) from the container. Install it in the same slot from which you removed the old module.
- 8. Complete the Non-Conforming Material Tag and attach the tag to the old module.
- 9. Package the old rev module in the same ESD container and close the case.
- 10. Remove the grounding cable from the ESD container once closed.
- 11. It is IMPERATIVE that the old T1023 module be returned ASAP through normal channels for upgrading.
- 12. Power up the system by turning the main Circuit Breaker on the back of the BA32 to the "ON" position and turning the upper key switch to the "Enable" position.

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13. Boot the VAX Diagnostic Supervisor (VDS).

- 14. Load EVDRI.EXE and test the T1023 module.
- 15. Upon successful completion of the diagnostics exit the VDS.
- 16. Slide the BA32 box back into the cabinet and retract the stabilizer leg.
- 17. Bring up the operating system.
- 18. Update Site Management Guide to reflect this FCO.
- 19. Report FCO activity on LARS form in the "Module/fail area/FCO". (See attached examples.)
- II. FIELD INSTALLATION AND TEST PROCEDURE FOR 8200/8300 SYSTEMS Config. 2
 - 1. Shut down the system by executing the Shutdown Command Procedure.

\$ @SYS\$SYSTEM:SHUTDOWN

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

At the console prompt type HALT (CR)

2. Remove the processor cabinet rear door.

* * * *	* * * * * * * * * * * * * * * * * * * *	*
*	NOTE	*
*	If battery backup H7231 is present as an option, the DEC-	*
*	PWR-BUS cable 17-00931-0X must be in place between the 877	*
*	power controller and the H7231 prior to the 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.	*
* * * *	* * * * * * * * * * * * * * * * * * * *	*

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3. Turn the upper key switch 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 plastic shield in front of the modules to allow access to the modules.

- 5. Hook the static strap from the system to the ESD case. Hook the other ESD strap to your wrist.
- 6. Remove the module, T1023, from the cardcage and place it on the open top half of the conductive package. Check the revision of the module taken from the machine. If the module is an "H3" reinstall it in the same slot and proceed to step 11. If the module revision is below an "H3" proceed to the next step.
- 7. Remove the T1023, "H3" module (EQ-01541-01) from the container. Install it in the same slot from which you removed the old module.
- 8. Complete the Non-Conforming Material Tag and attach the tag to the old module.
- 9. Package the old rev module in the same ESD container and close the case.
- 10. Remove the grounding cable from the ESD container once closed.
- 11. It is IMPERATIVE that the old T1023 module be returned ASAP through the normal channels for upgrading.
- 12. Power up the system 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.

Boot the VAX Diagnostic Supervisor (VDS). 13. * * NOTE Before diagnosing the DRB32-W using EVDRI, be sure the DRB32-M * * module (T1022) is fully functional. Only after the DRB32-M is * * known to be good should diagnosing of the DRB32-W take place. * * This will help prevent erroneous testing results. The DRB32-W * * * does not contain a VAXBI corner and, therefore, does not need * to be attached to the supervisor process.

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			İ	
	14.	Load EVDRI.EXE and test	the T1023 module.	
	15.	Upon successful complet	tion of the diagnostics exit the VDS.	
	16.	Replace plastic shield	securing the four screws.	
	17.	Replace and latch the p	processor cabinet rear door.	
	18.	Bring up the operating	system.	
	19.	Update Site Management	Guide to reflect this FCO.	
	20.	Report FCO activity on (See attached example)	LARS form in the "Module/fail area/FCO').	".
III.	FIELD	INSTALLATION AND TEST I	PROCEDURE FOR VAX 85X0/8700/88X0/8974 &	8978
	ـــــــــــــــــــــــــــــــــــــ			
	*	* * * * * * * * * * * * * * * * * * * *	*	
	*	C	CAUTION *	

	^
The module, as all other VAX $8XXX$ module	es, *
contains electrostatic discharge sensiti	ve *
devices (ESDS). The use of the new VELC)STAT *
case is essential to prevent damage whic	ch may *
not be noticed immediately.	*
	*
* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * *

Shut down the system by executing the Shutdown Command Procedure.
 \$ @SYS\$SYSTEM:SHUTDOWN

After VMS shuts down, type CTRL^P HALT.... you will now be in the console mode. The prompt is ">>>"

 Using the 85X0/8700/88X0/897X console commands, power the CPU off.

>>>POWER OFF (CR)

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After the system has powered down, place the Circuit Breaker (CB1) located near the input power cord, in the "OFF"(0) position. Wait five minutes to allow the capacitors to bleed down.

3. Use ALL ESD safety precautions to prevent DOA modules in upgrade kit.

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- 4. Hook static strap from 8XXX to ESD case, hook the other ESD strap to wrist. Open air-flow slides in front of the card cage exposing area around slot containing the T1023 module. Open ESD container by breaking the ESD SEAL on the front of the case. Check that the T1023 is at revision "H3". If the part number is incorrect return the module through the normal channels for upgrading and proceed to step 9. If the rev is "H3" go to the next step.
- 5. Place the T1023 module, revision "H3" (EQ-01541-01), on the floor in front of the 8XXX; then, using the hex key, open the doors of the 8XXX.
- 6. Remove the module from the cardcage and place it on the open top half of the conductive package. Check the revision of the module taken from the machine. If the module is an "H3" reinstall it in the same slot and proceed to step 9. If the module revision is below an "H3" proceed to the next step.
- Remove the T1023, "H3" module (EQ-01541-01) from the container. Install it in the same slot from which you removed the old module.
 - 8. Complete the Non-Conforming Material Tag and attach the tag to the old module.
 - 9. Package the old rev module in the same ESD container and close the case. It is IMPERATIVE that the old module be returned ASAP through normal channels for upgrading.
- 10. Remove grounding cable from ESD container once closed.
- 11. Set Circuit Breaker CB1 to the "ON" (1) position.

Power up the CPU by typing the following command:

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

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12. Boot the VAX Diagnostic Supervisor (VDS).

* * *	* * * * * * * * * * * * * * * * * * * *	*
*	NOTE	*
*	Before diagnosing the DRB32-W using EVDRI, be sure the DRB32-M	*
*	module (T1022) is fully functional. Only after the DRB32-M is	*
*	known to be good should diagnosing of the DRB32-W take place.	*
*	This will help prevent erroneous testing results. The DRB32-W	*
*	does not contain a VAXBI corner and, therefore, does not need	*
*	to be attached to the supervisor process.	*
* * *	***************************************	*

- 13. Load EVDRI.EXE and test the T1023 module.
- 14. Upon successful completion of the diagnostics exit the VDS.

_______ | | | | | | | | | |d|i|g|i|t|a|1 |_|_|_|_|_|_|_| FCO DRB32-0002

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- 15. Type @SYSINIT.COM to initialize the CPU and boot the Operating System.
- 16. Update Site Management Guide to reflect this FCO.
- 17. Report FCO activity on LARS form in the "Module/fail area/FCO". (See attached example).

LARS EXAMPLE

CATEGORY O	USA	GIA	EUROPE
Activity -			
Contract and Warranty	W	U	Y
Non Contract/Non Warranty	F	F	F
RTD/Off-site Agreement	F		
DEC Option	DRB32-W	DRB32-W	DRB32-W
Type of Call	М	М	М
Action Taken	D	D	I
Fail Area-Module-FCO-Comments	DRB32-0002	DRB32-0002	DRB32-0002
Material Used	EQ-01541-01	EQ-01541-01	EQ-01541-01

- (a) Warranty Optimum, Warranty Standard and Warranty Basic (on-site) Agreements.
- (b) RTD=Return to Digital or Off-site Agreements; If Field Engineer On-site, use Activity Code "F".

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\\JACKSON
\\1989
\\APR
\\FCO_DOCS