_ FCO DRB32-0005, Problem during FAST DMA WRITE's to user device

DIGITAL	J		FC	20		CATEGORY [0]			PAGE 1 OF 9		
FIELD CHANGE ORDER NUMBER: DRB32-0005											
 APPLICA may be a wide 	BILIT found varie	Y: This F on any V ty of far	'CO app 'AXBI k ' end c	olies to a ous system levices. '	all DR m that This F	B32-W op provides CO incorj	tions. s conn porate	The DRB32-W ectivity to s ECO T10233	N option any one of YA-TWO002.		
 PROBLEM 	1 & SY	MPTOM:	This DMA W	This FCO corrects a problem that exists during FAST DMA WRITE's to a user device.							
SOLUTIC)N:		Repla	Replace T1023-YA module with Min Revision "C03".							
 QUICK C 	CHECK:		Locat 19-21	Locations E82, E83, E84 and E85 will contain 19-21330-01.							
PRE/CO- 	REQUI	SITE FCO:	N/A	1	MITIT H	RS 					
 				I —		I					
TOOL/TE	ST EQ	UIPMENT:	N/A								
 				FCO PA	RTS IN	FORMATIO	N				
 FCO KIT 	NO.		DESCR	RIPTION O	F CONT	ENTS		EQ KIT	VARIATION		
EQ-0164 FA-0498	15-01 1-01	 (1) T10 FC0	23-YA Docum	Module Nent		N/A					
 		— I ————		FCO CHAR	GING I	NFORMATI	NC	I			
 WARRA	NTY/C	ONTRACT		 	NONW.	ARRANTY/I	NONCON	TRACT			
 ON-SI	TE	OFF-S	 SITE 				F-SITE MATERIAL ONL				
 TRAVEL/ INSTALL	EQ KIT	 INSTALL	EQ KIT	TRAVEL/	EQ KIT	 INSTALL	EQ KIT	ORDER-ADMIN	N,HANDLING NG & EQ KIT		
DEC	DEC	 DEC	DEC	CUST	CUST	CUST	CUST	CUST			
 				 APP:	 ROVALS						
 ייתס								רוומיי מאההיייי			
SPE DSHQ LOGISTICS DS PRODUCT SAFETY Rose Murphy Bill Stanley Robert Brister											
 SPE MAN Ric Gro	IAGER ogan		docum multi	nent is p ple media	ublish a incl	 ed FC(uding MDS	O RELE	ASE DATE			
 MICROME Anne Ja	Customer Services and MDS MICROMEDIA Microfiche Libraries. It FCO REVISION Anne James Smith is also available electroni-										



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- I. FIELD INSTALLATION AND TEST PROCEDURE FOR 6XXX Systems

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

\$ @SYS\$SYSTEM:SHUTDOWN

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After VMS shuts down, type ^P 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", push the power circuit breaker to the OFF position on the H405 AC power controller located on the lower right side at the back of the system to the OFF position. 3. Use ALL ESD safety precautions to prevent DOA modules in upgrade kit.

- * CAUTION
- * All VAX modules contain electrostatic discharge sensitive *
- * devices (ESDS). The use of the new VELOSTAT case is essential *

* to prevent damage which may not be noticed immediately. *

- 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-YA, from the cardcage and place it on the open top half of the conductive package. Install T1023-YA (EQ-01645-01) in the same slot.
- 6. Complete the Non-Conforming Material Tag and attach the tag to the old T1023-YA module.
 - 7. Package the old module in the same ESD container and close the case.
 - 8. Remove the grounding cable from the ESD container once closed.
 - 9. Return the old T1023-YA module through normal channels ASAP.

10. 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.

11. Boot the Diagnostic Supervisor (VAX/DS).

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* NOTE * Before diagnosing the DRB32-W using EVDRI, be sure the DRB32-M * * module (T1022) is fully functional by running Self-Test and * EVDRH.EXE. 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.

12. Run EVDRI.EXE to verify installation of the T1023-YA module.

13. Upon successful completion of the diagnostics exit the VAX/DS.

14. Bring up the operating system.

15. Update Site Management Guide to reflect this FCO.

16. 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.

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 cabinet. Set the main circuit breaker at the back of the BA32 box to the "OFF" (down) position. Remove the BA32 top cover.
- 4. Use ALL ESD safety precautions to prevent DOA modules/chips in upgrade kits.

- 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-YA, from the cardcage and place it on the open top half of the conductive package. Install T1023-YA Min Rev "C03" (EQ-01645-01) in the same slot.

7. Complete the Non-Conforming Material Tag and attach the tag to the old T1023-YA module.

- 8. Package the old module in the same ESD container and close the case.
- 9. Remove the grounding cable from the ESD container once closed.
- 10. Return the old T1023-YA module through normal channels ASAP.
- 11. Replace the BA32 Top Cover. 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 Diagnostic Supervisor (VAX/DS).

- * NOTE
- * Before diagnosing the DRB32-W using EVDRI, be sure the DRB32-M *

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*

- * module (T1022) is fully functional by running Self-Test and
- * EVDRH.EXE. 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. Run EVDRI.EXE to verify installation of the T1023-YA module.

14. Upon successful completion of the diagnostics exit the VAX/DS.

15. Slide the BA32 box back into the cabinet and retract the stabilizer leg.

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. 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.

> 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.

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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-YA, from the cardcage and place it on the open top half of the conductive package. Install T1023-YA Min Rev "C03" (EQ-01645-01) in the same slot.

7. Complete the Non-Conforming Material Tag and attach the tag to the old T1023-YA module.

8. Package the old module in the same ESD container and close the case.

9. Remove the grounding cable from the ESD container once closed.

10. Return the old T1023-YA module through normal channels ASAP.

11. Return the plastic shield in front of the modules. 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.

12. Boot the Diagnostic Supervisor (VAX/DS).

* NOTE

* Before diagnosing the DRB32-W using EVDRI, be sure the DRB32-M * * module (T1022) is fully functional by running Self-Test and * * EVDRH.EXE. 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. Run EVDRI.EXE to verify installation of the T1023-YA module.

14. Upon successful completion of the diagnostics exit the VAX/DS.

15. Replace and latch the processor cabinet rear door.

16. Bring up the operating system.

17. Update Site Management Guide to reflect this FCO.

18. Report FCO activity on LARS form in the "Module/fail area/FCO". (See attached examples.)

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III.	FIE	LD I]	NSTAI	LLAT:	ION 2	AND	TEST	PROCEDURE FOR VAX 85X0/8700/88X0/8974 & 8978
	====:	====	====:	====	====		====	
* *	*****	* * * *	* * * * *	* * * *	* * * *	* * * *	* * * *	* * * * * * * * * * * * * * * * * * * *
		*						* САПТТОМ *
*								*
*	The	mod	ule,	as a	all	othe	r VA	X 8XXX modules, *
*	conta	ins (elect	tros	tati The	c di	scha:	rge sensitive *
*	Case	ig e	ESDS ggeni). Fial	tne to i	use orev	ol l ent (damage which may *
*	not be	e no	tice	d im	media	atel	y.	*
*				*				
		* * * *	* * * * *	* * * *	* * * *	* * * *	* * * *	* * * * * * * * * * * * * * * * * * * *
1.	Shut \$ @Si	dowı YS\$S	n the YSTEI	e sy: M:SH	stem UTDO	by WN	exec	uting the Shutdown Command Procedure.
	Afte: the o	r VM cons	S shi ole r	uts (node	down . The	, ty e pr	pe C' ompt	TRL^P HALT you will now be in is ">>>"
2.	Using CPU (g the	e 852	X0/8'	700/	88X0	/897:	X console commands, power the
	>>>P(OWER	OFF	(CR)			
	Afte: (CB1	r the	e sys cated	stem d nea	has ar tl	pow he i	ered nput	down, place the Circuit Breaker power cord, in the "OFF"(0)
	post	LION	. wa.	IL I.	rve i	ninu	les	to allow the capacitors to bleed down.
	3	. U: uj	se Al pgrad	LL E: de k:	SD sa it.	afet	y pr	ecautions to prevent DOA modules/chips in
	4 to w:	. H rist	ook : •	stat	ic s	trap	fro	m 8XXX to ESD case, hook the other ESD strap
5.	Remo	ve ti open Mi	he mo top in Re	odul hal: ev "(e, T f of C03"	1023 the (EQ	-YA, cone -016	from the cardcage and place it on the ductive package. Install T1023-YA 45-01) in the same slot.
б.	Comp to tl	lete he oi	the ld Ti	Non- 1023-	-Con -YA 1	form modu	ing 1 le.	Material Tag and attach the tag

7. Package the old module in the same ESD container and close the case.

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8. Remove the grounding cable from the ESD container once closed.

9. Return the old T1023-YA module through normal channels ASAP.

10. Power up the system by pushing the Circuit Breaker (CB1) to the "ON" position. Type POWER ON at the console:

>>>POWER ON (CR)

11. Boot the Diagnostic Supervisor (VAX/DS).

* NOTE

* Before diagnosing the DRB32-W using EVDRI, be sure the DRB32-M * * * module (T1022) is fully functional by running Self-Test and * EVDRH.EXE. 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.

12. Run EVDRI.EXE to verify installation of the T1023-YA module.

- 13. Upon successful completion of the diagnostics exit the VAX/DS.
- 14. Type @SYSINIT.COM to initialize the CPU and boot the Operating System.

15. Update Site Management Guide to reflect this FCO.

16. Report FCO activity on LARS form in the "Module/fail area/FCO". (See attached examples.)

LARS

DEC Option

CATEGORY F	USA	GIA	EUROPE
Activity -			
(a)Contract and Warranty	W	U	Y
(b)IN-DEC Contract	K		
Hardware Segment Code	111	111	
Non Contract/Non Warranty	F	F	F
(c)RTD/Off-site Agreement	F		
Product Line 01			

DRB32-W

DRB32-W

DRB32-W

Туре о	of Call	М	М	М
Action	ı Taken	D	D	I
Fail A	Area-Module-FCO-Comments	DRB32-0005	DRB32-0005	DRB32-0005
Materi	al Used	EQ-01645-01	EQ-01645-01	EQ-01645-01
(a) Wa	arranty Optimum, Warranty	Standard and	Warranty Bas	sic (on-site)
Ag	greements.			
(b) Ap	plies to INDEC AREA ONLY	7 - Warranty Op	otimum, Warra	anty Standard
an	nd Warranty Basic (on-sit	e) Agreements.		
(c) RT	D=Return to Digital or C)ff-site Agreem	nents; If Fie	eld Engineer
On	n-site, use Activity Code	e "F".		
\\FCO_DOCS				
$\DRB32$				
\\EQ-01645-	-01			
\uparrow DRB32				
\\AUG 1992				