 d i g i t a _ _ _ _ _	 a l _ _	FCO		evel of Tgency [R]	Page Of	
FIELD CHANGE	E ORDER		Number	RQDX2-R001	-	
Applicabilit	СУ					
which contai will be elic	in the 17-00	n II and MicroPDP 861-01 cable conne is "REQUIRED" FCO DX2-ML001.	ecting the			
Problem/Symp	otoms					
The developm	ment of unre	overable (soft) en coverable (hard) e 53 drives every si	errors on	RD53 drives	з.	
Quick Check Presence of	17-01520-01	cable connecting	M8639-YB	to M9058.		
Compatibilit	y/Prerequis	ite FCO: N/A		Est. Time 3.0 hrs	e to Insta	all
Special Tool	ls or Test E	quipment: N/A		.		
		FCO Parts Info	ormation			
Order by		Contents	3			
FCO Kit #						
EQ Kit Varia	ation/System	-Option Applic: Se	e page 2.			
		Approvals				
CSSE Enginee K. Caruso	er	F.S. Product Sat Steve Caccia	ety	F.S. Logi E. Duggan	stics	
Responsible E. Toledo	CSSE Mgr	 F.S. Microfiche I 	 ibraries 	Affected E 6450	opulation	1

MicroMedia Publishing Ray LeBlanc	EP-FSNVX-LB EP-FSP11-LB		Initial Kitting 6450
Revision A	VAXnotes STARS		Hardcopy Publication
FCO Release Date			Parts Availability October 1987
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,_,_,_,_,_,_,_,		FCO RÇ	QDX2-R001
 d i g i t a 1 _ _ _ _ _ _		PAGE 2	of 6
FCO Parts Information: (Continued from page	ge 1.	
Quantity	Part Number	Descrip	ption
EQ-01489-01 1	17-01520-01		ot shielded cable
1 FA-04782-01 1	12-18783-00	Jumper	cument, RQDX2
FA-04782-02 1			cument, RQDX3
EQ Kit Variation/System-	-Option Applic: Co	ontinued f	from page 1.
630QB, 630Q3, 630Q4, 183 LV55F, VS215, LV55R, LV5			
	Document Cont	ents	
_			
Preface Section 1: Install	ation Instruction	ng	
Dectron I. Instal			

Section 2: Reformatting Instructions

Preface:

The following instructions specify the installation of hardware changes which will resolve the accumulation of errors in the RD subsystem due to noise in the disk data cable.

The following systems are subject to this FCO:

MicroVAX II / VAXstation II / VAXstation II GPX:

All BA123 based systems with serial numbers beginning with "BTO" All BA123 based systems with serial numbers up to "WFO620xxxx" All BA123 based systems with serial numbers up to "GAO 0502"

BA123 based systems = 630QB-**, DH-630Q3-**, DH-630Q4-**, **-LV55B-**, SV-LV55F-**, VS215-**, SU-LV55R-**, **-LV55U-**, **-LV59B-**, **-LV59C-**

MicroPDP 1183:

All 183QB-** and DH-183Q2-** systems with serial numbers up to "WFO620xxxx"

If you encounter a system exhibiting the problems described on the cover sheet of this FCO but does not fall within the serial number range, it is eligible for this FCO.

Note: Because disk backup operations may require several hours, the installation of this FCO should be pre-arranged with the customer such that when you arrive on-site the backup operation is complete. In some instances, where the soft error rate is very high, it may be advantageous to install the hardware changes, first, and then have the customer perform the backup, reformat and restore.

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Single LBN entries:

If ONLY ONE LBN is constantly identified, in the system errorlog, as "Uncorrectable ECC error, Operation successful", this is probably indicating a media defect which has not yet gotten severe enough to cause a replacement. Drives exhibiting this type of error should be monitored closely after applying the hardware changes and reformatting the drives. If soft errors begin appearing at the same LBN again the drive should be swapped.

INSTALLATION INSTRUCTIONS

1. Obtain the customer's permission and power down the system via the console switch. NOTE: If applicable, spin down and unload any drives that may be on the system prior to powering down.

- 2. Remove the power cord from the power receptacle after powering down.
- 3. Open the rear door of the BA123 enclosure.
- 4. Loosen the captive screw that connects the right side panel to the rear of the enclosure frame.
- 5. The panel is attached to the bottom of the enclosure frame by two snap fasteners. Pull the bottom of the panel out until the panel detaches from the bottom of the enclosure.
- 6. Lift the panel slightly to release it from the lip at the top of the frame and remove the panel.

* * * *	* * * * * * * * * * * * * * * * * * * *	* *
*	NOTE	*
*	THE MODULES IN THIS SYSTEM CONTAIN ELECTROSTATIC	*
*	DISCHARGE SENSITIVE DEVICES. 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 in the following manner:
 - a. Unfold the VELOSTAT mat to full size.
 - b. Attach the ground cord to the snap fastener on the VELOSTAT mat.
 - c. Attach the alligator clip end of the ground cord to a good (bare metal) ground on the system.
 - d. Attach the wrist strap to either wrist and the alligator clip to a convenient portion of the mat.
- 8. Remove the card cage door by releasing the two clasps at the front end of the door and swinging the door open.
- 9. Locate the M8639-YB module and slide partially out of the backplane.
- 10. Disconnect the 17-00861-01 or BC05W-02 cable.
- 11. Disconnect the 17-00861-01 or BC05W-02 cable from the M9058 (Note: the

M9058 is the RD/RX signal distribution card, this module sits in slot 13 of the backplane). Replace it with the 17-01520-01 cable provided in the EQ kit. The red stripe should face down and the smooth surface should face out. Insure the cable seats firmly into the connector such that it is latched by the locking tabs.

- 12. Connect the cable at the M8639-YB end.
- 13. Seat the M8639-YB firmly into its backplane slot.
- 14. Reassemble the system, reversing the order it was disassembled.
- 15. Reformat the problem drives following the instructions in the reformat section of this document.
- 16. Update the Site management Guide to reflect this FCO.
- 17. Report LARS data as per example.

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* * * *	*****	*
*	NOTE	*
*		*
*	It is the Customer's responsibility to restore the	*
*	data on the disk drives.	*
****	****************	*

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Disk Formatting Instructions

MDM

 Use release 120 (8/87) or later MDM kit. Load the MDM Diagnostic either from tape or diskette. If loading from the TK50 tape (P/N AQ-GM5AL-DN) use the CONNECT/IGNORE commands and ignore everything except the disk controller to save load time. If loading from RX50 diskettes only the first three diskettes (P/N BL-GLLAL-DN, BL-FMLBA-DN and BL-GLOAL-DN) need be loaded.

- 2. Select Menu #3, Customer formatter.
- 3. Answer the questions and select the appropriate disk drive.
- 4. The formatter will run to completion. An RD53 should require approximately 35 minutes to complete.

XXDP

- 1. Load the XXDP diagnostics from tape or load the Micro-11 formatter diskette (P/N BL-FN7AG-MC or later) if the system contains RX drives.
- 2. If the system contains an RQDX3, run ZRQC??, If the system contains an RQDX2 run ZRQB??
- 3. Answer the questions for the appropriate disk. In particular always answer yes to AUTOFORMAT mode and use the proper serial number of the drive.
- If the subsystem is free of further problems the formatter will run to completion. An RD53 should require approximately 35 minutes to complete.

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LARS

	USA	GIA	EUROPE
Activity -			
Contract and Warranty	W	U	Y
Non Contract/Non Warranty	F	U	F
DEC Option	RQDX2	RQDX2	RQDX2
Type of Call	М	М	М
Action Taken	D	D	I
Fail Area-Module-FCO-Comments	RQDX2-R001	RQDX2-R001	RQDX2-R001
Material Used	EQ-01489-01	EQ-01489-01	EQ-01489-01

\\RQDX2 \\CARUSO \\1987 \\SEP \\FCO_DOCS