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DIGITAL	FCO	CATEGORY [F]	PAGE 1 OF 5					
FIELD CHANGE	ORDER	NUMBER: RZ57-F001						
	TY: This FCO applies to RZ57 S4000 VLC and VS4000 Model 9		n VS4000					
RZ57-E up to system custo to Alpha pla Digital Assi an MCS engin required to	corporates ECO SHR RZ57-E-SHO Rev. level "D01". This kenders who wish to upgrade an atforms. For Alpha customer sted Services (DAS) and inspect on a per call basis. No upgrade Alpha customers sho customer situations should at team.	it may also be purchased and migrate RZ57s below Revers, this kit may be purchastalled by either the custon charges for materials of all be charged to this FC	by Alpha . level "DO sed from omer or by r labor O.					
configured vexperienced properly, sudiscovered in properly integrated (ERR). When being implements	MMPTOM: RZ57 disk drives with VS4000 Model 60, VS4000 under certain conditions, and that data is not written in the interrupt service rousialize a variable necessary initialized to a specific thented and without reporting a false recovery from a writ	VLC, and VS4000 Model 90 write fault that is not and not reported. A bug tine (ISR) where the ISR of for the error recovery rewo-byte word, the ERR exists an error to the host. The	have recovered was does not outine ts without is trans-					
which is RZS	ne firmware bug has been cor 57 hardware Rev. "D01". Repl are Rev. "D01" configured wi Model 90.	ace firmware EPROM on RZ5	7					
QUICK CHECK:	RZ57-E Rev. "C01" or below	requires kit installation	n					
PRE/CO-REQUI	ISITE FCO: None MF	IT HRS	0.5					
TOOL/TEST EQ	QUIPMENT: Standard tool kit	and Velostat kit						
	FCO PARTS	INFORMATION						
FCO KIT NO.	DESCRIPTION OF CO	NTENTS						
	Qty Dec Part # D	escription						
EQ-01695-01	Q-01695-01 1 29-31520-01 Packaged Firmware, Rev. "D01"							

36-19209-04 Label, Wire Marker "D"

Label, Wire Marker "1"

36-19208-01

 FA-05032-01 	 1 FA-05032-01 	FCO FA Document							
FCO CHARGING INFORMATION (See Last Page)									
APPROVALS									
TECH. ENGINEER	ENG. BUSINESS MGR.	DS LOGISTICS	DS PRODUCT SAFETY						
Lou McAdam	Lubbo Luken	Mark Bittenbender	Robert Brister						
Brenda Rogers	March 1994	A I	March 15, 1994						

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INSTALLATION AND TEST PROCEDURE FOR FCO RZ57-F001

Installation Procedure:

1. Use ALL ESD safety precautions to prevent DOA's on material in kit.

Setting up Velostat Kit

a. Unfold the Velostat mat to full size (24" x 24")

b. Attach the 15 foot ground cord to the Velostat snap fastener

on the mat.

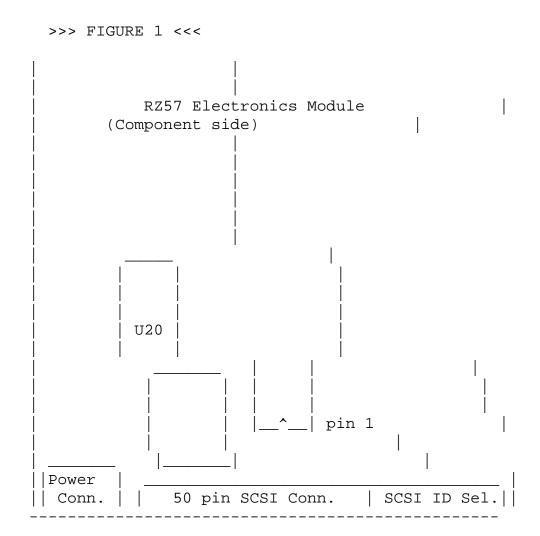
- c. Attach the alligator clip end of the ground cord to a good ground on the cabinet.
- d. Attach the wrist strap to either wrist and the alligator clip to a convenient portion of the mat.
- e. After removing the RZ57 from the system enclosure, place it on the mat. Unpack the EPROM in this kit ONLY on the mat.

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The following RZ57 removal and replacement procedure applies to the SZ12 expansion box. Refer to system or sub-system maintenance documentation for removal and replacement procedures for other enclosures.

- 2. Shut off the power to the expansion box and unplug the expansion box power cord from the outlet.
- 3. Unscrew the four cover screws and remove the expansion box cover.
- 4. Remove the three screws that hold the shield to the main chassis and lift the shield up and off.
- 5. Remove the three drive mounting screws.
- 6. Remove the SCSI switch cable from the SCSI switch board.
- 7. Slide the drive halfway out of the expansion box and disconnect the power cable, data cable, and SCSI switch cable from the back of the drive. Remove the drive.
- 8. Once you have removed the drive from the system expansion box, orient the drive with module face up, and turn the drive so the front bezel is facing away from you.
- 9. Remove the EPROM located at U20 located directly behind SCSI connector (See Figure 1). To remove U20, insert a small screw-driver under the chip and pry gently up, first on one end and then on the other end of the chip. Be very careful to avoid excessive force, as this may damage the electronics PCB and other components

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NOTE: Be very CAREFUL that all chip pins are straight and properly positioned in the PCB socket when inserting the new EPROM chip at U20. This is important to avoid bending or otherwise damaging pins on the replacement EPROM.

10. Install the EPROM from FCO Kit EQ-01695-01

NOTE: Be sure that the EPROM chip is orientated correctly in the socket. Observe and note the position of the notch and/or Pin 1 marker on the chips, and be sure to insert the new chip with the same orientation as the old.

11. After you have installed the new EPROM update the drive revision level with the wire markers supplied in the kit.

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- 12. Reverse the above procedure to re-install the RZ57 drive back in the expansion box. It is imperative that the SCSI switch cables and data cables are re-installed the same way in which they were removed.
- 13. Test the RZ57 drive by using the system diagnostics. Perform the power-up test and self-test diagnostics.

NOTE: This EQ kit may also be purchased by Alpha system customers who wish to upgrade and migrate RZ57s below Rev. level "D01" to Alpha platforms. For Alpha customers, this kit may be purchased from logistics and installed by either the customer or by an MCS engineer on a per call basis. None of the cost of materials or labor associated with the upgrade for Alpha system customers should be writtem off against this FCO. Exceptional customer situations should be worked in consultation with the local account team.

Only RZ57 disk devices at or above device Rev. level "D01" (Rev. 6000 microcode) should be installed or supported on Alpha system platforms.

14. Report this FCO activity on the LARS form in the "Fail Area/Module/FCO/Comments" column as follows: FCO RZ57-F001

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LARS

	USA	APA	EUROPE
Activity -			
(a)Contract	W	U	K
Warranty	W	U	W
(b)IN-DEC Contract	K	U	А
Non Contract/Non Warranty	F	F	F
(c)RTD/Off-site Agreement	F	U	F

Hardware Segment Code	111	111	111
Product Line	031/001	031/001	031/001
DEC Option	RZ57-E	RZ57-E	RZ57-E
Option ID	X	N/A	N/A
Type of Call	M	M	M
Action Taken	D	D	I/V
Fail Area-Module-FCO-Comments	RZ57-F001	RZ57-F001	RZ57-F001
Material Used	EQ-01695-01	EQ-01695-01	EO-01695-01

If customer wants FS to provide Material and Labor and the "Event" is customer billable, FS should not use EQ kits but rather piece parts from stock.

Note: NO AUDIT TIME AUTHORIZED FOR THIS FCO log call using Activity 'K', Type of Call 'T', Action Taken 'M' and Product Line 031 or 001

FCO CHARGING INFORMATION											
 WARR <i>A</i> 	ANTY/C	ONTRACT			NONW	ARRANTY/N	IONCON'	TRACT			
ON-SITE OFF-SITE			SITE		ΓE	OFF-S	SITE	MATERIAL ONLY			
	EQ KIT	 INSTALL	EQ KIT		EQ KIT	 INSTALL	EQ KIT	ORDER-ADMIN, HANDLING PKG, SHIPPING & EQ KIT			
 DEC	DEC	 DEC	DEC	 CUS		 CUS	CUS	CUS			

⁽c) Labor ONLY reporting if customer should order EQ from DAS.

^{*} Used for Authorized FCO audits and multiple use EQs.