_ FCO KD560-0001, Firmware & Hardware problems on current revs of KD560 module

DIGITAL	FCO	CATEGORY [O]	PAGE 1 OF 7				
FIELD CHANGE (NUMBER: KD560-0	001					
APPLICABILITY This FCO show	: uld be implemented on ALL VA	Xft model 810 systems.					
The KD560 mod reason for th customer site This will ins as well as th	dule in EACH ZONE of the mod his FCO is to insure that al es are purged and upgraded t sure that a hardware ECO fro he newest release of SROM an	el 810 is a 54-21081-0 l field stockrooms, su o revision "H" for the m revision "F05/F06" i d CPU firmware.	1. The pplies, and se modules. s installed				
PROBLEM & SYM Several prob of the KD560 1.) Several indicate fat result in the 2.) SROM diag 3.) CPU Flas diagnos	PTOM: lems existed in firmware and module. unterminated inputs on the ' lse errors when no errors ha removal of a module or zone gnostics were enhanced to pr sh Rom has been upgraded to h Rom also has a corrected e tic section.	hardware on the curre checker' chips could p d actually occurred wh from the system confi- ovide additional cover fix auto reboot bug on rror register mask in	nt revisions roduce or ich could g. age. Zone "A". the CPU				
SOLUTION: Install fully ZONE of the s	y upgraded rev "H" 54-21083- system.	01 modules, (the KD560	-AA), in EACH				
QUICK CHECK: Visually insp the VAXft 81 present on bo 1.) On cho compose 2.) On E1 3.) On E1 4.) On E1	pect BOTH KD560-AA modules, 0 system, (1 module per Zone oth modules in the system; ecker chips at E83 and E87 1 nent connecting pins 65 to 6 50 look for identifier; 23-0 51 look for identifier; 23-35	(the 54-21083-01, ATM). Verify that the fo ook for 2 small ECO wi 6, and pins 31 to 32. 73Z4-00, or V1.5, or ci 72Z4-00, or V1.5, or ci 7E7-00, or V1.3, or ch	module), in llowing are res on each hksm. 14A5. hksm. B0B5. ksm. A230.				
PRE/CO-REQUIS: N/A	ITE FCO:		MFIT HRS 1.5				
TOOL/TEST EQUIPMENT: 1.) Std FS tool kit and ESD kit							
	FCO PARTS IN	FORMATION					
FCO KIT NO.	DESCRIPTION OF CONT	ENTS					
EQ-01722-01 FA-05055-01	Qty : KD560-AA module (Re Qty : Field Application (vision H or Higher) FA) Document					
	FCO CHARGING I	NFORMATION (see last p	age)				

APPROVALS									
TECH.ENGINEER BUSINESS Manager DSHQ Logistics DS Product Sector Lee Wolfe Ron Woodcock Bill Stanley Robert Brist									
IDC PUBLISHING Diane MacDonald	PARTS AVAILABILITY 	FCO REVISION A _	FCO RELEASE DATE _						
FIELD APPL:	ICATION DOCUMENT (FA),	, Continuation Page							
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+		PAGE 2 of	7						
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* * * * • • • • • • • • • • • • • • • •	st be noted that this	upgrade CANNOT BE D	ONE *						
* AS A ROLLING * *	OR CONTINUOUS SERVICE	SUPGRADE! *							
* THE SYSTEM MU	* THE SYSTEM MUST BE BROUGHT FULLY DOWN, BOTH ZONES *								
* AT THE SAME T * YOUR (FIME. THIS MUST BE SO CUSTOMER PRIOR TO YOUP	CHEDULED WITH * R ARRIVAL ON SITE.	*						
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PRE-INSTALLATIO	N +								
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1. PRE-INSTALLAT	ΓΙΟΝ								
1.1 STOCK ROOM ST	JPPLIES:								
a) VERIFY that a	all the KD560(54-21083	3-01) module(s)							
presen FCO.	presently in stockrooms, comply with this FCO.								
b) If any of the the stockroom order the app the out of re	e KD560(54-21083-01) m n need this FCO implem propriate FCO kit to m evision module(s). Yo consume the kit on a	nodule(s) in nented, replace ou should a LARS form.							
1.2 CUSTOMER SIT	2:								

a) To perform the FCO upgrades will REQUIRE that the

ENTIRE FT SYSTEM be brought down. THIS CANNOT BE PERFORMED AS A CONTINUOUS SERVICE OR ROLLING UPGRADE! Schedule this required downtime with your customer.

b) It is suggested that the unless the customer is reporting problems with the KD560(54-21083-01) module(s), the system shutdown be performed during a regularly scheduled maintenance visit or during a regularly scheduled customer system shutdown.

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1.2.1 REPLACEMENT OF KD560 MODULE

- a) If the KD560(54-21083-01) module(s) need this FCO implemented, order the EQ kit. The revision of the 54-21083-01 module, with this (FCO/ECO) implemented, will be H01 or H02.
- b) Once you have received the new KD560 module(s), verify that they have the FCO implemented. Use the visual inspection process in this FCO for verification. (See "Quick Check" on page #1 of this FCO.)
- c) Refer to the INSTALLATION section of this FCO (section 4), for installation sequence.

2. Tools

2.1 Use Standard Field Service tool kit with ESD kit.

NOTE: Make sure proper ESD module removal process is followed.

3.1.1 Unfold the VELOSTAT mat to full size (24" x 24").

- 3.1.2 Attach the 15 foot ground cord to the VELOSTAT snap fastener on the mat.
- 3.1.3 Attach the alligator clip end of the ground cord to a good ground on the cabinet.
- 3.1.4 Attach the wrist strap to either wrist.

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++ d i g i t a 1 d i g i t a 1 ++ INSTALLATION ++	FCO KD560-0001 PAGE 4 of 7						
4. Installation							
<pre>************************************</pre>	**************************************						
<pre>4.1 SYSTEM SHUTDOWN a) Bring new KD560(54-21083-01) module(S) to the customer site.</pre>							
b) Bring the system down using the customer's preferred shutdown process.							
c) Locate the KD560(s) that do not hav FCO implemented using the "SHOW VER at the consoles ">>>" prompt. If c in synchronous mode, (DUPLEX), init typing "I <cr>" and wait for complet initialization, then retype "SHOW V</cr>	re this SION <cr>" command onsoles are still both zones by ion of machine ZERSION<cr>" command.</cr></cr>						

d) On each zone type the "SHOW ALL<cr>" command and record the results for later reuse. (Please pay particular

attention to the capture of Ethernet addresses and any default boot or boot aliases which have been defined.)

- e) Power down one zone from the Operators Control Panel, (Note: this requires that both power off buttons on the zone be pressed simultaneously.)
- f) Replace ONLY ONE of the KD560(s) affected by this FCO, with a new KD560 that has this FCO implemented.
- g) Turn power back on from the Operator Control Panel for the zone which has just had the upgraded KD560 installed.
- h) Wait for successful completion of the power up diagnostics. (Note: it should log a "CPU area mismatch" failure.) (Also note that at this time you may need to execute a "SET ZONE x" command; where zone "x" is the zone which you are upgrading, either "A" or "B". This will only be necessary if the module you are installing is the same as the zone id of the already present zone.)

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i) At the ">>>" prompt execute the "SHOW ALL" command and examine the results. Verify that the revision levels of firmware reflect the new versions of CPU and SROM.

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j) Now execute a "MATCH_ZONES" command and answer "YES" to the confirmation of update request.

(Please note: it takes approx. 1 minute to execute this command during which time there is no terminal output.)

This command should replicate the NVRAM entries from the OTHER zone which has the 'correct' entries for the default boot and boot aliases.

k) Once again type the "SHOW ALL" command and verify that the results of the match_zones command are successful.

(If the results are incorrect enter the boot strings

and boot default manually. Remember that it must match the other zone exactly.)

- 1) Now repeat steps a) through k) for the other zone.
- m) After successfully completing upgrade of the other zone please proceed to verification and functional check section, (section #5), of this FCO.
- NOTE: It should take approximately 1 to 1.5 hours to install this FCO. Make sure proper ESD module removal process is followed.

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| VERIFICATION | +----+

5. Verification

5.1 FUNCTIONAL CHECK

- a) Power down BOTH zones of the system and then restore power at the same time to initiate power-up self test diagnostics. (This is the only way to initiate all of the self tests provided in the newly upgraded SROM.)
- b) Verify self test performs and completes without errors. If SYSTEM FAULT LED lights during power-up self test and then goes out, self test has passed successfully. Verify this on the CPU and ATM modules in the front of the system, and all NIM and DIM P-CARDS in the rear of the system, both zones.
- c) Type a "SHOW CONFIG" command to the ">>>" prompt and insure that all modules are noted as present and have 'good' status.
- d) Type the "SHOW STATE" command to the ">>>" prompt and insure that mode is 'failsafe', crosslink status is 'present', and synchable status is 'synchable'.
- e) Type the "SHOW BOOT" command to the ">>>" prompt and insure that the boot default and aliases listed match those previously defined by the customer.

- f) Boot the system software, following any preferred customer process.
- g) Verify that both consoles are active and that zones respond correctly to a "SHOW ZONE" command.
- h) Insure that all DSSI drives can be seen by VMS and that all Ethernet connections are working or are on standby, ready for failover.

VERIFICATION IS COMPLETE

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LARS

CATEGORY F	US	SA		APA	EUROPE
Activity - Caverage Code					
(a)Contract	V	V	U	K	
Warranty	V	V	U	W	
Inhouse					А
Invoiced per Call					F
(b)IN-DEC Contract	ŀ	ζ	U		
Non Contract/Non Warrant	cy E	7	F		
(c)RTD/Off-site Agreement	E	7	U		
Hardware Segment Code	1	L11	11	.1	
Product Line	C)31	03	1	
BBC Code for K,W,A					111
BBC Code for F					031
DEC Option	KD560)-AA		KD560-AA	KD560-AA
Option ID	Σ	ζ	N/A	N/A	
Type of Call	N	1	М		
Request Type					I
Action Taken	Ι)	D	Y	
Quality Codes					M,L,J,R,X,A,Y,Z
Fail Area-Module	KD560	0-0001	L	KD560-0001	KD560-0001
FCO-Comments					
Material Used	EQ-01	L722-(01	EQ-01722-01	EQ-01722-01
(a) Warranty Optimum, Warra Agreements; * Note mate	anty S erial	Standa (only	ard a 7) fr	nd Warranty B ee of charge	asic (on-site) for all

customers.

(b) Applies to IN-DEC Area Only

(c) RTD=Return to Digital or Off-site Agreements; If Field Engineer On-site, use Activity Code "F".

FCO CHARGING INFORMATION									
 WARR <i>I</i> 	ONTRACT			NONW	ARRANTY/N	IONCON'	IRACT		
ON-SI	TE	OFF-S	SITE		ON-SI	OFF-SITE MATERIAL ONLY			
 TRAVEL/	EQ		EQ		TRAVEL/	EQ		EQ	ORDER-ADMIN, HANDLING
INSTALL	KIT	INSTALL 	KIT		INSTALL	KIT	INSTALL 	KIT	PKG,SHIPPING & EQ KIT
DEC	DEC	DEC	DEC		CUS	CUS	CUS	CUS	CUS

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Attachment 1.

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