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FCO

 Level of
 Urgency
 [I]

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 Of ___4___

FIELD CHANGE ORDER

Number: DELUA-I002

Applicability: Upgrade all DELUA-M at Revision "E2", "E3", or "E4" exhibiting problems/symptoms as noted in the Problem/Symptom Section of this FCO document. This FCO implements ECO M7521-MK007.

Problem/Symptoms: 1. DELUA in a 8300 receives a UNIBUS ACCESS TEST failure during power-up self-test and causes a system crash. 2. Power-up self-test failure of DMA UNIBUS ACCESS TEST on DELUA when in PDP 1184. 3. LAVC Clusters keep breaking connections due to host time-outs. 4. Terminal servers disconnect due to host time-outs.

Quick Check: Verify that E31 is P/N 23-451E4-00 and E56 is P/N 23-452E4-00.

Compatibility/Prerequisite FCO: N/A

 Est. Time to Install:
 1.0 Hour

Special Tools or Test Equipment: N/A

FCO Parts Information

Order by FCO Kit #	Contents		
	Quantity	Part Number	Description
EQ-01501-01	1		See page 2.
FA-04796-01	1		FCO Document

EQ Kit Variation/System-Option Applic: DELUA-M

Approvals

CSSE Engineer Bryan Williams	F.S. Product Safety Robert Brister	F.S. Logistics Ed Duggan
Responsible CSSE Mgr. Mark Hald	F.S. Microfiche Libraries EP-FSNVX-LB VAX	Affected Population 4,860
MicroMedia Publishing Ray LeBlanc	EP-FSP11-LB PDP11	Initial Kitting 4,860

Revision: A	VAXnotes STARS	Hardcopy Publication 5,000
FCO Release Date 25-FEB-88		Parts Availability March 1988

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FCO Parts Information: Continued for page 1.

	QTY.	Part Number	Description
EQ-01501-01	1	23-451E4-00	Microcode ROM
	1	23-452E4-00	Microcode ROM
	1	36-19209-06	Brady Marker "F"
	1	36-19208-02	Brady Marker "2"
	1	36-19208-03	Brady Marker "3"
	1	36-19208-04	Brady Marker "4"
FA-04796-01	1		FCO document

REWORK PROCEDURE

1. Perform all necessary procedures to perform an orderly shutdown of the operating system.
2. Remove power from the Unibus cabinet that contains the DELUA-M.

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*****
*
*           *** CAUTION ***
*
* To assure that the AC power is removed from the unit, the AC power cord
* must be disconnected.
*
*****

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3. Gain access to the module in the Unibus cabinet. Disconnect the Network interface cable.
4. Remove the DELUA-M (M7521) module from the Unibus backplane.

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*****
*
*           *** CAUTION ***
*
* The DELUA-M module as well as the ROMS in this FCO Kit, are
* 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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5. Locate and remove the microcode ROM 432E4 at location E31 using an IC remover or small screwdriver, and replace with microcode ROM 451E4. (See Figure 1 on page 4)
6. Locate and remove the microcode ROM 433E4 at location E56 using an IC remover or small screwdriver, and replace with microcode ROM 452E4. (See Figure 1 on page 4)
7. Identify the current Revision of the DELUA-M (M7521) by looking at the module handle.

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- 8a. For DELUA-M at Revision "E2" install Brady Markers "F" and "2" over the existing Revision on the module handle.
- 8b. For DELUA-M at Revision "E3" install Brady Markers "F" and "3" over the existing Revision on the module handle.
- 8c. For DELUA-M at Revision "E4" install Brady Markers "F" and "4" over the existing Revision on the module handle.
9. Reverse sequence steps 1 thru 4 to restore the system back to operation.
10. Perform checkout of the module by running 5 passes of diagnostics EVDYB or CZUAD.
11. Complete LARS data as per example.
12. Update Site Management Guide to reflect the installation of this FCO.

LARS

	USA	GIA	EUROPE
Activity -			
Contract and Warranty	W	U	Y
Non Contract/Non Warranty	F	F	F
DEC Option	DELUA-M	DELUA-M	DELUA-M
Type of Call	M	M	M
Action Taken	D	D	I

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FCO DELUA-I002

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Figure 1

\^ DELUA
\ DELUA
\ WILLIAMS
\ 1988
\ FEB
\ FCO_DOCS