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FIELD CHANGE ORDER	Number: CI750-I006
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Applicability: This FCO upgrades the CI750 to Rev. F1 and incorporates the the following ECO: L0009-MK003 (New part rev. B2 or C3)

Field Service Spares should be upgraded at this time.

Problem/Symptom: Another VAXcluster node randomly receives incorrect data in data-packet originating from VAX750/CI750, when a VAX750 "single-bit or double-bit main-memory (MS750-XX) error is encountered by the CI750.

Quick Check: Look for new part 23-121C6-00 at location E26 on the L0009 Module.

Compatibility/Prerequisite FCO: N/A	Est. Time to Install: 1 hour
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Special Tools or Test Equipment:
 See page 2

FCO Parts Information

Order by FCO Kit#:	Quantity:	Part Number:	Description:
EQ-01497-0X	1		See Page 2
FA-04792-01	1		FCO Document

EQ Kit Variation System/Option Applic: N/A

Approvals

CSSE Engineer
Bob Brassard

F.S. Product Safety
Bob Brister

F.S. Logistics
Ed Duggan

CSSE Manager
Jan Sicard

F.S. Microfiche Libraries

Affected Population:
2,600/800

MicroMedia Pub.
Ray LeBlanc

EP-FSNVX-LB VAX

Initial Kitting:
2,600/800

Revision:
A

VAXnotes
STARS

Hardcopy Publication:
3,500

FCO Release Date
18-Jul-1988

Parts Availability:
September 1988

digital

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SPECIAL TOOLS: Continued from page 1.

Field Service Tool Kit
VELOSTAT Electrostatic Field Service Kit (P/N 29-26246-00)

FCO KIT CONTENTS: Continued from page 1.

	Quantity	Part Number	Description
EQ-01497-01	1	23-121C6-00	Microcode ROM
	1	36-19208-02	Wire Marker "2"
	1	36-19209-02	Wire Marker "B"
EQ-01497-02	1	L0009 Module	(Part Rev "C3"
FA-04792-01	1		FCO Document

* NOTE: ORDERING INFORMATION *
* L0009 Rev A1 and A2 will be reworked in the field by replacing *
* the FPLA (EQ-01497-01). This makes both revs B2. Rev A3 will *
* be swapped with a C3 (EQ-01497-02). *
* *

CI750 OPTION LEVEL REVISION CHART

CI750	00	B	C	D, (**DD1)	E	F
L0100***	D (B2*)	D (B2*)	D, (B2*)	D, (B2*)	D, (B2*)	E
L0118***	-	-	-	-	-	B
L0101	F	H	H	H, **HH1	J	J
L0009	A	A	A	A	A	B
L0400	B	B	B	B	B	B
Microcode						
CI780.BIN	Rev 2.0	Rev 3.0	Rev 4.0	Rev 5	Rev 7	Rev 8
BE-T204*-ME	E-F	G	H	I	L	O
				**Rev 6.0		
Backplane	B	B	B	B	B	B
POWER SUPPLY	A	A	A	A	A	A

- * (NOTE) "B2" is being marked on "B" etch and is equal to "D1".
- ** (NOTE) Rev 6.0 ucode and the "HH1" module are only used if you need to install FCO CI750-DD1-I-004 making the CI750 Rev DD1.
- *** (NOTE) L0118 is enhanced L0100 replacement and can be used as "universal spare". L0118 is required to support >16 node functionality.

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FCO PROCEDURE:

1. Shutdown the system by executing the Shutdown Command Procedure, CUSTOMER SHOULD PERFORM THIS.

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$ "@SYS$SYSTEM:SHUTDOWN.COM"
```

2. Turn the key switch on the control panel to the OFF (0) position.
3. Set "CB1" on the power controller to the OFF (0) position.

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*****
*                               NOTE                               *
*                               *                                   *
*   For this FCO, you will not be going into CI Expander        *
*   Cabinet.  You will be going into the CPU Cabinet only.      *
*                               *                                   *
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*                               C A U T I O N                       *
*                               *                                   *
*   The L0009 module, as all VAX 11/7X0 modules,                *
*   contains electrostatic discharge sensitive                   *
*   devices (ESDS).  The use of the VELOSTAT kit                 *
*   is essential to prevent damage which may not                *
*   be noticed immediately.                                       *
*                               *                                   *
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4. Set 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 VAX-11/750 system.
 - d. Attach the wrist strap to either wrist and the alligator clip to a convenient portion of the mat.
5. Open the front door of the CPU cabinet and remove the Front Panel of the Card Cage.

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6. Remove the L0009 module from its VAX 11/750 CMI option slot and place it on the mat.
7. Check the revision. If it is B2 or C3, return it to the same option slot and proceed to step 12. If it is A1 or A2, proceed to step 8. If it is A3, proceed to step 10.

A1 or A2 modules - Steps 8 and 9

8. Unplug PROM P/N 23-095C6-00 at location E26 on the L0009. Install new PROM P/N 23-121C6-00 in the same location (see figure 1 - page 5) EQ-01497-01.
9. Attach the brady markers "B" and "2" to the L0009 module handle, reinstall the L0009 module in the CMI option slot and proceed to step 12.

A3 modules - Steps 10 and 11

10. Install the new L0009 (EQ-01497-02) in the CMI option slot.
11. Return the old module for upgrade using ESD packaging.

Continue here for all revisions.

12. Secure the Card Cage Front Panel and close the front door.
13. Turn the key switch on the control panel to the local (1) position.
14. Set "CB1" on the power controller to the "ON" (1) position.
15. Load the VAX Diagnostic Supervisor (ECSAA.EXE) and run the functional level CI generic diagnostics EVGAA/B on the CI750. On any unexplained failures use CI750 Repair level diagnostics ECCGA/B/C/D/E for troubleshooting. Note that false errors may occur under EVGAA/B with live VMS cluster if CI cable loopback

connectors are not used.

16. Boot system into the VAXcluster, using customers "standard operating procedures". IT IS PREFERRED THAT THE CUSTOMER PERFORM THIS STEP.
17. Report the FCO activity on the LARS form in the "module/fail/area/FCO" column as "FCO CI750-I006" as indicated on page 5.
18. Update Site Management Guide.

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LARS

	USA	GIA	EUROPE
Activity -			
Contract and Warranty	W	U	Y
Non Contract/Non Warranty	F	F	F
DEC Option	CI750	CI750	CI750
Type of Call	M	M	M
Action Taken	D	D	I
Fail Area-Module-FCO-Comments	CI750-I006	CI750-I006	CI750-I006
Material Used	EQ-01497-01	EQ-01497-01	EQ-01497-01
	EQ-01497-02	EQ-01497-02	EQ-01497-02

FIGURE 1

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\^ CI750
\\CI750
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\\1988
\\JUL
\\FCO_DOCS

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