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FIELD CHANGE ORDER

Number CXA16-F001

Applicability: Replace "as needed" CXA16's (M3118-YA's) in the Field below Revision "E2" which are exhibiting the problem/symptoms as noted in the Problem/Symptom Section of this FCO document.
 (Applicability Section continued on page 3 of this FCO document.)

Problem/Symptoms: 1) Artificial login attempts on the DECSERVER 500/550's with the CXA16 module installed. 2) Excessive framing errors on DECSERVER 500/550's with the CXA16 module installed. 3) Locked Ports on the DECSERVER 500/550's with the CXA16 module installed. 4) Excessive Port overrun errors on the DECSERVER 500/550 with the CXA16 module installed. 5) Server slowdown due to false logins on the DECSERVER 500/550 with the CXA16 module installed.
 NOTE** The above listed problems will most likely occur when a terminal is powered off during normal operations.

Quick Check 1) Verify CXA16 (M3118-YA) at Revision "E2" or greater.

Compatibility/Prerequisite FCO	Estimated Time to Install
NONE	EUR/ 1.0 Hr., GIA & US/ 0.5Hr.

Special Tools or Test Equipment
 NONE

FCO Parts Information

Order by FCO Kit #	Contents		
	Quantity	Part Number	Description
EQ-01545-01	1	M3118-YA	CXA16 Line Card
FA-04850-01	1		FCO Document

EQ Kit Variation/System-Option Applicability: DSRVB-AA, DSRVB-AB, DSRVB-BA, DSRVB-BB, DSRVS-CA, DSRVS-CB, DSRVS-DA, and DSRVS-DB.

Approvals

CSSE Engineer David Benson	F.S. Product Safety Robert Brister	F.S. Logistics Ed Duggan
Responsible CSSE Mgr. Jonathan Lewis	F.S. Microfiche Libraries EP-FSVDC-LB VAX	Affected Population 6,571

EDS&P Micropublishing	VAXnotes	Initial Kitting
Diane MacDonald	STARS	6,571
Revision		Hardcopy Publication
A		6,571
FCO Release Date		Parts Availability
19-JUN-89		June 1989

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REWORK INSTRUCTIONS

** NOTE ** DECSERVER 500/550 Technical Manual possession and pre-familiarization is suggested.

- 1) Locate the DECSERVER 500/550's exhibiting the problems/symptoms as noted in the Problem/Symptom Section of this FCO document.
- 2) Obtain the Customers permission and perform all necessary procedures to remove the DECSERVER 500/550 from the Customers network.
- 3) Power down the DECSERVER 500/550 Server.

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*
*           *** CAUTION ***
*
* To assure that the AC power is removed from the unit, the AC power cord*
* must be disconnected. Do not remove any FRU's with power applied to the*
* unit.
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- 4) If the DECSERVER 500/550 has a front cover, remove the cover by inserting the antistatic key into the keyhole and turning clockwise to the stop position.
- 5) Lift the cover up and then outward.
- 6) Locate the CXA16 (M3118-YA) Line Card Modules below Revision "E2" for the affected lines. Remove the module from the DECSERVER 500/550 by loosening the 2 1/4 turn fasteners securing the handle to the card cage by pressing in and turning in a counterclockwise direction.
- 7) Simultaneously pull the upper and lower release levers outward to disengage the module from the backplane and gently slide the

module outward to remove it from the server.

- 8) Observe the address and vector switchpack settings of the CXA16 (M3118-YA) module/modules just removed from the DECSERVER 500/550. Set the switches of the new CXA16 (M3118-YA), (supplied with this EQ Kit), to the same switchpack settings. Install the new CXA16 (M3118-YA) module into the slots the CXA16 (M3118-YA) module/modules was/were removed from.

**** NOTE **** Set the new CXA16 (M3118-YA) switches to the SAME switchpack settings as the removed CXA16 (M3118-YA). If unsure of settings please refer to the CXA16 and/or DECSERVER 500/550 Technical Manuals.

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- 9) Restore power to the DECSERVER 500/550 Server.
 - 10) Testing of the CXA16 (M3118-YA) Line Cards is performed by an internal diagnostic self-test performed at power-up. Verify that the CXA16 (M3118-YA) module OK LED's (Green LEDs) turn off and on as each CXA16 is tested. The DECSERVER 500/550 is ready for normal operation when the Servers' display LED's begins alternating between 0 and 8.
- **NOTE**** If the power-up self test diagnostic is not successful verify switchpack settings of the CXA16 and/or consult the DECSERVER 500/550 Technical Manual for additional information.
- 11) Re-install the front cover of the Server.
 - 12) Complete LARS data as per example on Page 5 of 5 of this FCO Document.
 - 13) Update the Site Management Guide to reflect installation of this FCO.

Applicability (Continued from Page 1)

On Digital Equipment communications systems using DEC423, problems have been known to occur when a user terminal is powered down, or a terminal line is left unterminated. This creates a condition where signal cross-talk from adjacent active lines or noise from other electrical sources is received at the local system or DECserver and the system attempts to act upon the signal received. The usual

scenario is one where the system attempts to have the "noise" log-in and fails. The 5180 receiver chip is used in the CXA16 (M3118-YA) which is used in the following Digital products:

- 1) DSRVS-AA, DSRVS-AB, DSRVS-BA, and the DSRVS-BB DECSERVER 500 Ethernet Terminal Servers using the CXA16 (M3118-YA) receiver cards for RS423 applications.
- 2) DSRVS-CA, DSRVS-CB, DSRVS-DA, and the DSRVS-DB DECSERVER 550 Ethernet Terminal Servers using the CXA16 (M3118-YA) receiver cards for RS423 applications.

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Problem Symptoms: (Continued from Page 1)

- 1) Artificial login attempts on the DECSERVER 500/550's with the CXA16 module installed.
- 2) Excessive framing errors on DECSERVER 500/550's with the CXA16 module installed.
- 3) Locked Ports on the DECSERVER 500/550's with the CXA16 module installed.
- 4) Excessive Port overrun errors on the DECSERVER 500/550 with the CXA16 module installed.
- 5) Server slowdown due to false logins on the DECSERVER 500/550 with the CXA16 module installed.

****NOTE**** The above listed problems will most likely occur when a terminal is powered off during normal operations.

EQ Kit Variation/System-Option Applicability (Cont. from Page 1)

DSRVB-AA, DSRVB-AB, DSRVB-BA, DSRVB-BB, DSRVS-CA, DSRVS-CB, DSRVS-DA and DSRVS-DB.

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LARS

CATEGORY F

	USA	GIA	EUROPE
Activity -			
Contract and Warranty	W	U	Y
Non Contract/Non Warranty	F	F	F
RTD/Off-site Agreement	F		
DEC Option	CXA16	CXA16	CXA16
Type of Call	M	M	M
Action Taken	D	D	I
Fail Area-Module-FCO-Comments	CXA16-F001	CXA16-F001	CXA16-F001
Material Used	EQ-01545-01	EQ-01545-01	EQ-01545-01

(a) Warranty Optimum, Warranty Standard and Warranty Basic (on-site) Agreements.

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

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