

DIGITAL	FCO	LEVEL OF URGENCY	PAGE 1 OF 7
		[I]	

FIELD CHANGE ORDER	NUMBER: DSRZA-I001
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APPLIC: All DSRZA-BAs and all DSRZA-BBs must be upgraded. Customers will be having system hanging problems, and will request the installation of this FCO. This FCO must be completed with FCO no. DFMZA-I001, which upgrades the firmware in the DFMZA-BA/BB (DECMUX-II) to rev "C01". If only one product is ECO'ed the link will still work, but it will still exhibit the same problems as before. All MUXSERVER-100s (DSRZAs) and all DECMUX-IIIs must be at revision "C01" or greater to properly run with this FCO.

PROB/SYMPT: The composite link has problems with error recovery, especially in the route-through configuration, and will cause the system to hang.

QCK CK: The DSRZA-BA/BB must be at revision "C01" or greater, and the firmware must be at revision X2.2-17 or greater.

COMPATIB/PREREQ: The DFMZA-BA/BB must also be at revision "C01" or greater.	EST INSTALL TIME .75 hrs
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TOOLS/TEST EQUIP: Use "Anti-Static Work Station" (DEC P/N 29-26246-00).

FCO PARTS INFORMATION

ORDER BY FCO KIT #	CONTENTS		
	QUANTITY	PART NUMBER	DESCRIPTION
EQ-01525-01	1		See page 2.
FA-04825-01	1		FCO Document

EQ KIT VARIATION/SYS-OPT APPLICABILITY: Only one kit for all variations.

APPROVALS

CSSE ENGINEER Bob Koontz	F.S. PRODUCT SAFETY William Henry	F.S. LOGISTICS Ed Duggan
RESPON. CSSE MANAGER Gene Yonchak	F.S. MICROFICHE LIBS EP-FSNVX-LB VAX EP-FSP11-LB PDP11	AFFECTED POPULATION 2871
MICROMEDIA PUBLISHING Ray LeBlanc	VAXnotes STARS	INITIAL KITTING 2871
REVISION		HARDCOPY PUBLICATION

FCO RELEASE DATE
2-SEP-1988

PARTS AVAILABILITY
July 1988

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FCO Parts Information: Continued from page 1.

	QUANTITY	PART NUMBER	DESCRIPTION
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EQ-01525-01	1	23-320E5-00	UVEPROM 16Kx8 (DSRZA-E7)
	1	23-321E5-00	UVEPROM 16Kx8 (DSRZA-E46)
	1	36-29163-03	"C01" revision tag
FA-04825-01	1		FCO Document

This FCO requires changing two PROMs in the DSRZA-BA/BB on the 54-16341-01 module and adding a revision tag to the unit.

The following are the steps to follow when installing the updated firmware on the DSRZA-BA/BB (Muxserver):

```
*****
*                               C A U T I O N                               *
* All modules and chips contain electrostatic discharge *
* sensitive devices (ESDS). The use of the VELOSTAT kit *
* is essential to prevent damage which may not be noticed *
* immediately. *
*****
```

1. Connect terminal to supervisor port of Muxserver. At the local> prompt enter the following steps to show the ports and map characteristics. Record them in order to re-input these parameters after performing the manufacturing reset:

local>set priv <CR>

Password>??????(not echo)

COM>show

DSRZA MASTER - Firmware version xx.x

Port A _____ baud _____ driver
Port B _____ baud _____ driver

COM>map

Multiplexer port map

Mux.:	B2-___	Self-Master-up	_____	A1-___
Port:	_____	_____	_____	_____
Conn:	_____	_____	_____	_____

After the manufacturing reset (step 10), re-input these parameters by using the SYSTEM command.

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2. Use the "Anti-Static Work Station" (DEC P/N 29-26246-00) when performing the following FCO. All proper anti-static procedures (as outlined in DEC-STD-067) are to be followed at all times.

3. Set up the VELOSTAT Kit:

- Unfold the VELOSTAT mat to full size.
- Attach the 15' ground cord to the VELOSTAT snap fastener on the mat.
- Attach the alligator clip end of the ground cord to a good ground on the system.
- Attach the wrist strap to either wrist and the alligator clip to a convenient portion of the mat.

4. Place the DSRZA-BA/BB on the VELOSTAT mat.

NOTE: Review Figure 1 and 2 before continuing.

```

*****
*                               *
*           CAUTION             *
*  Remove all power from the device *
*  before proceeding.           *
*****

```

5. Power off the Muxserver and remove the power cord from the electrical outlet. Lift the front of the Muxserver up to locate 2 recess screws (one is almost under the on/off switch and the other is at the other end). Gently turn the Muxserver over on its top and remove these 2 screws. Turn the Muxserver over again and remove the cover. At this point you should now see a metal cover with 2 black plungers. Lift up both plungers and carefully remove metal cover (you will have to unplug a 19 pins cable at the rear of the PC board in order to remove the cover).

6. Locate the new PROM which has "23-320E5-00" printed on it.

Refer to Figure 1.

Find IC location E7 on the Muxserver layout diagram, locate old PROM on the module and remove that PROM (23-255E5-00). Carefully insert the new PROM "23-320E5-00" into IC location E7.

7. Locate the new PROM which has "23-321E5-00" printed on it. Find IC location E46 on the Muxserver layout diagram, locate old PROM on the module and remove that PROM (23-256E5-00). Carefully insert the new PROM "23-321E5-00" into IC location E46.

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FCO DSRZA-I001

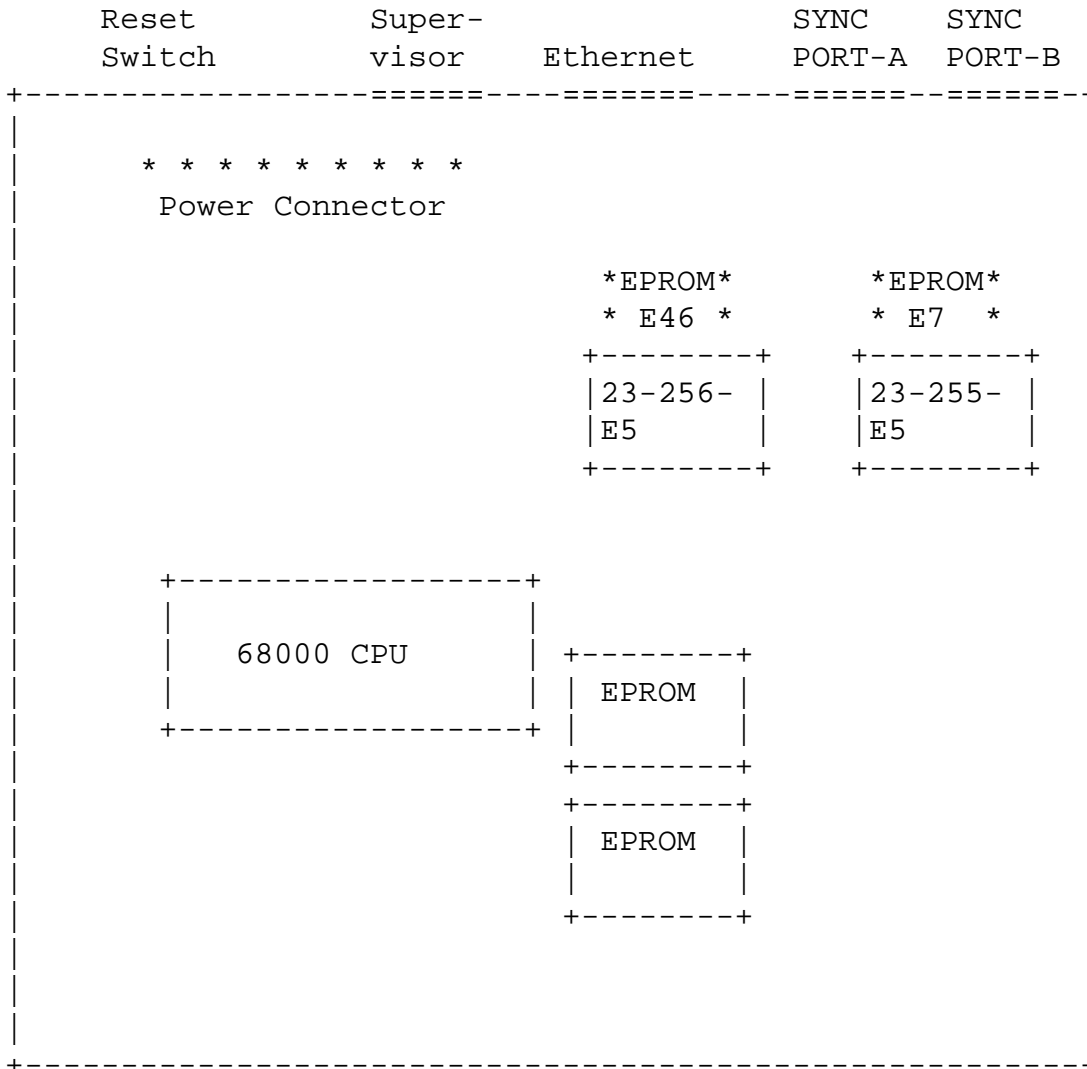
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8. Check both PROMs after installation to see if the pins are properly set in the IC sockets. Plug in cable, and put metal cover on. Line up the black plungers over the holes and push the plungers firmly into the holes. Replace the cover, put in the screws.
 9. Take the revision tag that is included in the EQ kit, part no. 36-291631-03, and cut off the section that states "REV C01" and install it as shown in figure 2. The Muxserver firmware update is now complete.
 10. Perform a factory reset by pressing the reset button and then power the unit up. Verify that the unit passes self-test by observing the green light on the back of the unit. (see the installation manual for more details).
 11. Return the system to the original configuration as recorded in step 1.
 12. Update the Site Management Guide to reflect this FCO.
 13. Report this FCO activity on the LARS for in the "Fail Area/Module/FCO/Comments" column as per example on page 7.

d	i	g	i	t	a	l										

FIGURE 1

MUXserver 100, DSRZA-** Module
 54-16341-01

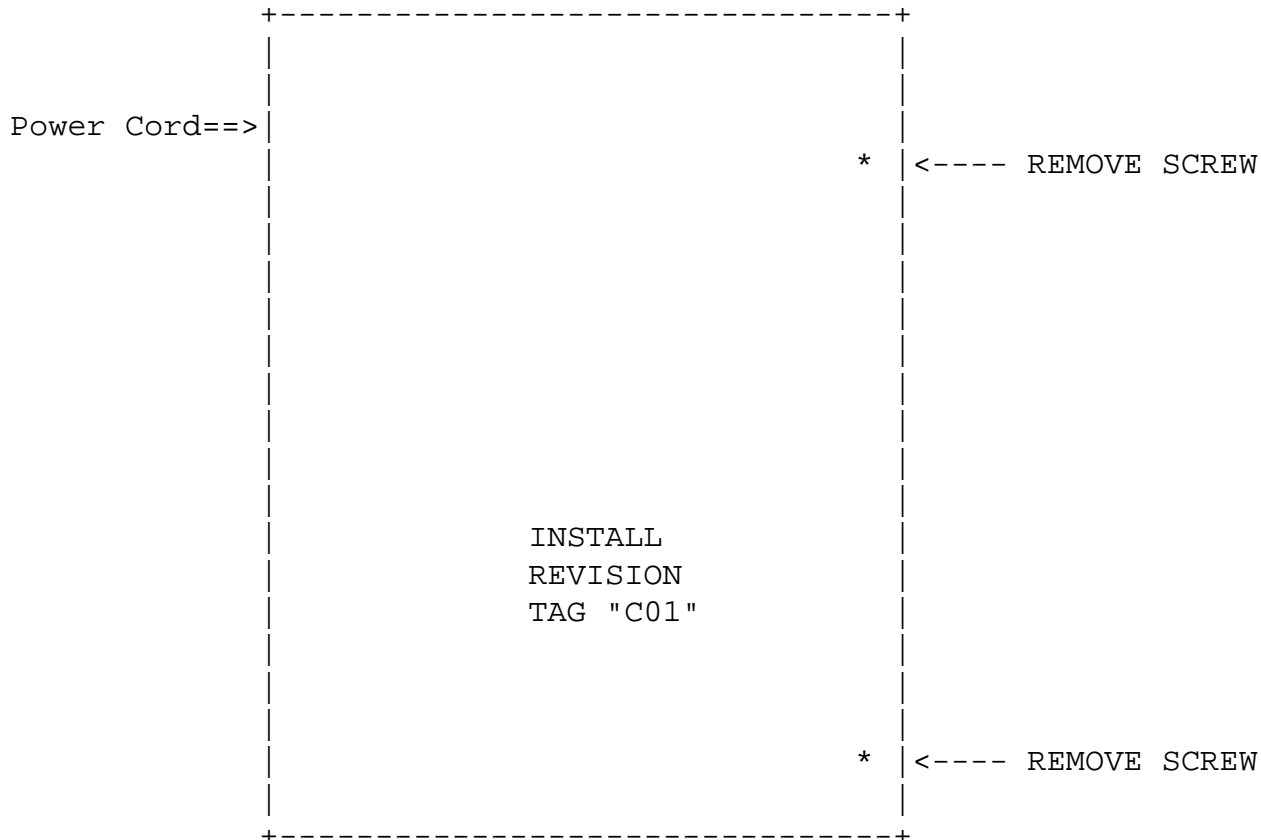


REPLACE EPROMS :
 E7 : 23-225E5-00 with 23-320E5-00
 E46: 23-256E5-00 with 23-321E5-00

NOTE: Depending on Rev/Vintage of MUXserver, E numbers and original PROM numbers may not agree with table.

FIGURE 2

(Bottom View DSRZA-BA/BB)



NOTE: 1. Remove the two screws as indicated.

NOTE: 2. Install the revision tag where indicated.

Activity -			
Contract and Warranty	W	U	Y
Non Contract/Non Warranty	F	F	F
DEC Option	DSRZA	DSRZA	DSRZA
Type of Call	M	M	M
Action Taken	D	D	I
Fail Area-Module-FCO-Comment	DSRZA-I001	DSRZA-I001	DSRZA-I001
Material Used	EQ-01525-01	EQ-01525-01	EQ-015250-01

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 \\DSRZA
 \\KOONTZ
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