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FIELD CHANGE ORDER

Number: CIBCA-I001

Applicability: This FCO will upgrade the CIBCA Option to rev. "D1". It upgrades the CIBCA microcode CIBCA.BIN on all VAX 82X0/83X0/85X0/8700/8800 and 897X Console Media to Version V5.3 on all CIBCAs. This FCO includes ECO BL-FJ11CME-MK001 (V4.3 CIBCA.BIN) and BL-FJ11DME-MK001 (V5.3) CIBCA.BIN.

Problem/Symptom: See Page 2

Quick Check: See Page 2

Compatibility/Prerequisite FCO:	Est. Time to Install:
N/A	1 hr.

Special Tools or Test Equipment:
N/A

FCO Parts Information

Order by	Quantity:	Part Number:	Description:
FCO Kit#:			
FA-04803-01	1		FCO Document See Note 1 - page 2

EQ Kit Variation System/Option Applic:

Approvals

CSSE Engineer	F.S. Product Safety	F.S. Logistics
Bob Brassard	Bob Brister	Ed Duggan

CSSE Manager	F.S. Microfiche Libraries	Affected Population:
Jan Sicard		3027

MicroMedia Pub.	EP-FSNVX-LB VAX	Initial Kitting:
Ray LeBlanc	VAXnotes	N/A

Revision:	STARS	Hardcopy Publication:
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FCO Release Date
31-MAY-88

Parts Availability:
June 1988

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FCO CIBCA-I001

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PROBLEM/SYMPATOM Cont.

CIBCA.BIN V4.3: HSCX0/CIBCA virtual-circuits may close on disk/tape BACKUPS or on high disk I/O rates, due to CIBCA microcode inefficiency with processing RETDAT (Return-Data) function. Also adds enhancements for future products.

CIBCA.BIN V4.3 (DIAG-REL-30) was also the first official distribution of V3_EEPROM "Self-Test" microcode. EEPROM update requires use of EVGDA "EEPROM Program Utility".

NOTE: CIBCA.BIN V4.3 was also the first official distribution of V3 EEPROM "Self Test" microcode. EEPROM update requires EVGDA "EEPROM Program Utility".

Due to a CIBCA microcode bug, CIBCA buffer-transfers to VMS memory of less than 16-bytes at exact octaword boundaries will "write" the entire 16-byte buffer, corrupting the end of this buffer. Such transfers may result from unusually short VMS RMS record "GET/READ" operations during an application file-access. The CI transaction involves the CI's RETDAT or SNTDAT packets, used during HSC/CI or CI/CI (MSCP-served-disk) buffer-transfers.

It also adds CIBCA functionality and EEPROM ucode and adds code to Data Mover Service Routine.

Note, this problem predominantly impacts 3rd-party non-DEC applications: one example is PATRAN from PDA.

QUICK CHECK Cont.

Loaded CIBCA Ucode can be examined at BB+108C (functional) & BB+1090 (EEPROM), after CIBCA passes self-test, and is loaded with CIBCA.BIN by VMB.EXE. CIBCA.BIN file version can be checked with DCL "DUMP/BLOCK=(S:1,C:1)" - Refer to CIBCA User's Guide, Page 4-1.

* There is no FCO EQ-kit for CIBCA.BIN diag. media. This FCO *
 * assumes that DIAG-REL-31 media #'s: BL-FJ11D-ME & BL-FI08F-DE, *
 * has been ordered/received. *

I. Installation Procedures for VAX 82X0/83X0 Configuration I & II.. 3
 II. Installation Procedures for VAX 85X0/8700/8800/897X..... 6

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SECTION I - INSTALLATION PROCEDURES FOR VAX 82X0/83X0 CONFIG. I & II
 =====

ABSTRACT: This procedure updates the CIBCA.BIN file to V5.3 on the VAX 82/83X0 console media. EEPROM is also reprogrammed using EVGDA if not at version V3_EEPROM, as determined from low-word of "SHOW CLUSTER/CONT, ADD RP_REV" command-display.

1. Log into the VMS operating system, Field account, on system to be upgraded.
2. There are 3 methods for upgrading CIBCA.BIN on VAX Console Media, dependent on available/ordered DIAG-REL-31 media:
 - a. E-NET copy from: "VOLKS::CLUSTER\$REV:CIBCA_V5003.BIN",
Go to step # 3.
 - b. DIAGNOSTIC-RELEASE #31 "CIBCA MICROCODE UPDATE FLOPPY",
P/N BL-FJ1131-MAY-88to step # 4.
 - c. DIAGNOSTIC-RELEASE #31 "VAX82/83xx CONSOLE FLOPPY",
P/N BL-FG81H-ME, Go to step # 5.

E-NET COPY OF CIBCA.BIN V5.3

3. Copy ENET-sourced CIBCA_V5003.BIN from interchange media (magtape, RX50, etc.) to SYS\$COMMON:[SYSMAINT]CIBCA_V5003.BIN. The following steps and VMS DCL commands assume that VAX82/83XX Console Floppy is present and write-enabled in CSA1: :
 - a. \$ EXCHANGE
 - b. EXCHANGE> RENAME CSA1:CIBCA.BIN CIBCA.OLD !Saves old for backup.
 - c. EXCHANGE> COPY !/TRANS... ensures no corruption.
 _From: SYS\$COMMON:[SYSMAINT]CIBCA_V5003.BIN/TRANSFER=BLOCK
 _To: CSA1:CIBCA.BIN

- d. EXCHANGE> DIR CSA1:CIBCA.BIN ! Verify new file copied.
- e. EXCHANGE> EXIT
- f. \$ DISMOUNT CSA1:

Proceed to step # 6.

BL-FJ11D-ME CIBCA MICROCODE UPDATE FLOPPY

- 4. Ensure VAX82/83XX Console Floppy is present and write-enabled in CSA1:, and floppy BL-FJ11D-ME (contains CIBCA.BIN Version V5.3) is present in CSA2:, during the following VMS DCL commands:

<pre> _ _ _ _ _ _ _ _ _ d i g i t a l _ _ _ _ _ _ _ _ _ </pre>		<pre> FCO CIBCA-I001 PAGE 4 OF 11 </pre>
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* NOTE *

* To avoid MOUNT-reported errors against CSA2:, remove the write-protect tab on the right-hand corner of the BL-FJ11D-ME floppy. *

- a. \$ MOUNT/OVER=IDENT CSA2: ! BL-FJ11D-ME is ODS-1 format.
- b. \$ SET DEFAULT CSA2:[SYSMAINT]
- c. \$ COPY/LOG ! Retain backup copy, & use for console xfer
 - _From: CIBCA.BIN
 - _To: SYS\$COMMON:[SYSMAINT]CIBCA_V5003.BIN
- d. \$ DISMOUNT CSA2:
- e. === REMOVE BL-FJ11D-ME RX50-FLOPPY from CSA2:. ===
- f. \$ EXCHANGE
- g. EXCHANGE> RENAME CSA1:CIBCA.BIN CIBCA.OLD ! Save old version.
- h. EXCHANGE> COPY ! /TRANS... ensures no corruption.
 - _From: SYS\$COMMON:[SYSMAINT]CIBCA_V5003.BIN/TRANSFER=BLOCK
 - _To: CSA1:CIBCA.BIN
- i. EXCHANGE> DIR CSA1:CIBCA.BIN ! Verify new file copied.
- j. EXCHANGE> EXIT
- k. \$ DISMOUNT CSA1:

Proceed to step # 6.

VAX 82/83XX CONSOLE UPGRADE TO BL-FG81H-ME (REL-31)

- 5. The DIAG-REL-31 VAX82X0/83X0 Console Floppy (P/N BL-FG81H-ME) already contains CIBCA.BIN Version V5.3. If the new console floppy has been installed for other reasons (example: VMB.EXE, xxBOO.COMD, etc.), or VAX system was shipped since mid-APR-88, then there is no need to update CIBCA.BIN.

NOTE : However, upgrading Console Floppy only to accomplish the CIBCA.BIN file upgrade alone IS NOT WARRANTED OR

7. *** COORDINATE WITH CUSTOMER/CLUSTER *** Perform an orderly shutdown of this system without using "Automatic Reboot", if not performed in step # 6 already.
8. *** OPTIONAL VERIFICATION OF CIBCA WITH NEW V5.3 CIBCA.BIN ***
CSSE recommends these diags to minimize customer data-integrity risks. Verify CIBCA with "EVGAA-4.2 & EVGAB-4.2" CI-Functional-DIAGS. from DIAG-REL-31 Media BL-FI08F-DE, using newest "EBSAA" DS> available (Version 10.10, DIAG-REL-31 advised).

NOTE 1: CI-BUS Loopback cables (12-19907-01 x2 Attenuator Pad; 70-18530-00 x 4 Modularity Cables) are recommended with CI-Functional & CIBCA-Repair diags. Refer to CIBCA User's Guide Page 3-4 for cabling help. This avoids false diag. errors when receiving "live" VMS Virtual-Circuit startup (SCS-handshake) request datagrams: Diags cannot talk with VMS.

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NOTE 2: CI Functional Level Testing is documented in CIBCA User's Guide Page 3-14.

- a. === BOOT NEWEST "EBSAA" DIAG. SUPV (DS>) FROM RX50 OR DISK.
 - b. === PLACE BL-FI08F-DE "CI-FUNCTIONAL-DIAG FLOPPY" IN CSA1:
 - c. DS> SET LOAD CSA1:[SYSMAINT]
 - d. DS> LOAD EVGAA ! Load CI-FUNCT. Part-I
 - e. DS> HELP EVGAA ATTACH_CIBCA ! Help for CIBCA attach.
 - f. DS> ATTACH CIBCA HUB PAA0 BI# BR# CI# ! Attach CIBCA.
 - g. DS> SELECT PAA0 ! Select PAA0 for testing.
 - h. DS> SET EVENT FLAG 1 ! Load new CIBCA.BIN V5.3 of
! BL-FI08F-DE.
 - i. DS> SET FLAGS TRACE ! Print subtest-titles as executed.
 - j. === INSTALL CI-BUS LOOPBACK CONNECTORS, IF INTENDED.
 - k. DS> START/PASS:5 ! EVGAA only has "DEFAULT" section.
! On error, use REPAIR-DIAGS !
 - l. DS> ABORT ! Clean-up for EVGAB
 - m. DS> LOAD EVGAB ! Load CI-FUNCT. Part-II
 - n. DS> CLEAR EV FL 1 ! No need to reload CIBCA.BIN
 - o. DS> START/PASS:5 ! EVGAB only has "DEFAULT" section.
! On error, use REPAIR-DIAGS !
 - p. DS> EXIT
 - q. === REMOVE CI-BUS-LOOPBACK CABLES, if installed, & RECONNECT
CIBCA TO SC008 !
 - r. Diagnostic Verification complete.
9. *** COORDINATE WITH CUSTOMER/CLUSTER *** Reboot customer VMS software.

10. Update Site Management Guide to reflect this FCO.
11. Report this FCO activity on the LARS form using the "Fail Area/Module/FCO/Comments" columns as follows: "FCO CIBCA-I001" (See FCO Page 11 for example).

SECT. II-CIBCA.BIN V5.3 UPGRADE PROCEDURES FOR VAX 85X0/8700/8800/897X
 =====

ABSTRACT: This procedure updates the CIBCA.BIN file to V5.3 on the VAX85X0/8700/8800/897X console media. EEPROM "SELF-TEST" microcode is also reprogrammed using EVGDA if not at version V3_EEPROM, as determined from low-word of "SHOW CLUSTER/CONT, ADD RP_REV" DCL-command-display.

1. Log into the VMS operating system, Field account, on system to be upgraded.

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2. There are 3 methods for upgrading CIBCA.BIN on VAX 85X0/8700/8800/897X Console Media, dependent on available/ordered VAX-DIAG-REL-31 media:

- a. If DIAG-REL-31 SDC Field Service ADS Update Magtape Media available:

- # ZE999-HM (ADS FS-UPDATE "MAGTAPE - ALL VAX FAMILY DIAGS");
or
- # BB-FG87J-DE ("VAX 82/83XX CMPLT. DIAG SET");
or
- E-NET COPY FROM: "VOLKS::CLUSTER\$REV:CIBCA_V5003.BIN";

Then go to step # 3

- b. If P/N BL-FJ11D-ME "CIBCA Microcode Update Floppy", or P/N BL-FI48E-ME "RX98 CI VMB System Code Floppy", is available:

Then go to step # 4

- c. If VAX 85X0/8700/8800/897X Version-7.0 Console Software Package from VAX-DIAG-REL-31, has been installed on PRO38N RD52/Winchester:

NOTE: In this case, CIBCA.BIN V50003 is already installed on RD52, DW2:[USERFILES]CIBCA.BIN. However, CIBCA EEPROM "Self-

Test" microcode version should be checked for Version
EEPROM_V0003.

Then go to step # 5

ADS F.S. UPDATE MAGTAPE OR E-NET COPY OF CIBCA.BIN V5.3

3. Procedure to copy "CIBCA.BIN" (V50003) from VMS Magtape Media to
PRO38N RD52-Winchester Media, using PRO38N "SCRATCH" RX50 Floppy
to avoid VMS-TO-RD52/Winchester "WRITE" RESTRICTION.

Copy CIBCA_V5003.BIN from Field-Service ADS Update Magtape/Floppy,
or from ENET interchange media (magtape, RX50, etc.) to:

SYS\$COMMON:[SYSMAINT]CIBCA_V5003.BIN

Install a "scratch", write-enabled RX50 floppy (or suitable,
formatted "work"/usable floppy) in the VAX85X0/8700/8800/897X
PRO38N Console Floppy DZ1: (VMS = CSA1:)

NOTE: "P" = PRO38N-DCL prompt;
"\$" = VMS-DCL prompt;
">>>" = PRO-CONSOLE Task.

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Proceed to Sub-Step k. If using pre-formatted ODS-1 RX50.

- a. \$ Ctrl-P (^P) ! Exit Console "VMS-Prog." mode.
- b. >>> EXIT ! Exit PRO Console Task.
- c. P INIT DZ1: UCODE ! Create ODS-1 format on scratch RX50.
- d. P SET DEFAULT DZ1: ! Set Default dir., for PRODCL\$.
- e. P CREATE/DIRECTORY [USERFILES] ! Conventional dir.
- f. P SET DEFAULT DW2:[CONSOLE] ! Default dir. for
! CONSOLE task.
- g. P DISMOUNT DZ1: ! Prepare VMS MOUNT.
- h. === OPEN & SHUT DZ1: DRIVE DOOR TO ENABLE VMS/PRO REMOUNT.
- i. P RUN CONTROL ! Restart PRO38N Console task.
- j. >>> SET TERMINAL PROGRAM ! Console "VMS Prog" mode.

Start here if "WORK" ODS-1 formatted RX50 is available.

- k. \$ MOUNT/OVER=IDENT CSA1: ! Mount scratch under VMS.
- l. \$ COPY/CONTIGUOUS ! Contig. copy of new CIBCA.BIN
_From: SYS\$COMMON:[SYSMAINT]CIBCA_V5003.BIN ! to
_To: CSA1:[USERFILES]CIBCA.BIN ! RX50.
- m. \$ SET DEFAULT CSA1:[USERFILES] ! Set VMS Default dir.
- n. \$ SET PROT=(W:RWED) CIBCA.BIN ! Avoid PRODCL\$ UIC


```

! prot. problems.
o. $ DISMOUNT CSA1: ! Prepare for PRODCL$ mount.
p. === OPEN & SHUT DZ1: DRIVE DOOR TO ENABLE VMS/PRO "REMOUNT".
q. $ Ctrl-P (^P) ! Exit console "VMS Prog." mode.
r. >>> EXIT ! Exit PRO "Console Task".
s. P SET DEFAULT [000000] ! DW2:[USERFILES] "home" dir.
t. P SET/PROTECTION USERFILES.DIR (W:RWED) ! Enable writing
! to DW2:[USERFILES] directory.
u. P SET DEFAULT DW2:[USERFILES] ! Default dir.
v. P RENAME CIBCA.BIN CIBCA.OLD ! Rename old CIBCA.BIN
! on RD52 Winchester.
w. P MOUNT DZ1: ! Mount "scratch" RX50 under PRODCL$.
x. P SET DEFAULT DZ1:[USERFILES] ! Prepare for file-copy.
y. P COPY/CONTIG CIBCA.BIN DW2:[USERFILES]CIBCA.BIN
! Copy new CIBCA.BIN to RD52.
z. P SET DEFAULT DW2:[CONSOLE] ! Prepare for CONSOLE task.
aa. P RUN CONTROL ! Restart PRO38N Console task.
ab. >>> SET TERMINAL PROGRAM ! Console "VMS Prog" mode.

```

Proceed to step # 5

USING DIAG-REL-31 RX50-FLOPPY MEDIA TO UPDATE CIBCA.BIN V5.3

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4. Procedure to *** DIRECTLY COPY *** "CIBCA.BIN" (V50003) FILE:
    FROM >>> DIAG-REL-31 RX50-FLOPPY MEDIA "CIBCA UCODE UPDATE
        (BL-FJ11D-ME)" OR "CI/VMB NAUTILUS CONSOLE UPDATE
        (BL-FI48E-ME)" .
    TO >>> PRO38N RD52-WINCHESTER & SYS$COMMON:[SYSMAINT].

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Insert BL-FJ11D-ME or BL-FI48E-ME RX50 floppy in PRO38N DZ1: (VMS CSA1:) floppy-drive, with "write-protect" tab removed (on right corner of media), to avoid MOUNT-reported errors during VMS-CSA1: "MOUNT". Note that either RX50-floppy media contains CIBCA.BIN Version V5.3.

```

NOTE: "P" = PRO38N-DCL prompt;
      "$" = VMS-DCL prompt;
      ">>>" = PRO-CONSOLE Task.

```

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a. $ MOUNT/OVER=IDENT CSA1: ! Mount RX50 under VMS.
b. $ SET DEFAULT CSA1:[SYSMAINT] ! Prepare for COPY.
c. $ COPY/LOG ! COPY CIBCA.BIN for archive.
   _From: CIBCA.BIN ! Default @ CSA1:[SYSMAINT]
   _To: SYS$COMMON:[SYSMAINT]CIBCA_V5003.BIN
! Archive & Backup-copy.
d. $ DISMOUNT CSA1: ! Prepare for PRO MOUNT.

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e. === OPEN & SHUT DZ1: DRIVE DOOR TO ENABLE VMS/PRO "REMOUNT".
f. $ Ctrl-P (^P) ! Exit Console "VMS-Prog." mode.
g. >>> EXIT ! Exit PRO Console Task
h. P SET DEFAULT DW2:[000000] ! [USERFILES] "home" dir.
i. P SET/PROTECTION USERFILES.DIR (W:RWED) ! Enable writing
! into DW2:[USERFILES] directory.
j. P SET DEFAULT [USERFILES] ! Default dir. to DW2:
! [USERFILES]
k. P RENAME CIBCA.BIN CIBCA.OLD ! Rename old CIBCA.BIN.
l. P MOUNT DZ1: ! Mount "scratch" RX50 under PRODCL$.
m. P SET DEFAULT DZ1:[USERFILES] ! Prepare for file-copy.
n. P COPY/CONTIG CIBCA.BIN DW2:[USERFILES]CIBCA.BIN
! Contig. COPY of new CIBCA.BIN to RD52
o. P SET DEFAULT DW2:[CONSOLE] ! Prepare for PRO CONSOLE task.
p. P RUN CONTROL ! Restart PRO38N Console task.
q. >>> SET TERMINAL PROGRAM ! Enter Console "VMS Prog" mode.

```

Proceed to step # 5

COMMON CIBCA MICROCODE UPDATE: EEPROM, VERIFICATION, REBOOT

5. Verify CIBCA EEPROM "Self-Test" microcode version, in low-word of RP_REV field of "SHOW CLUSTER/CONT & ADD RP_REV" display. Only 2 EEPROM versions have been released: 0002 & 0003; any other values indicate CIBCA hardware failure or EEPROM mis-programming error.

a. RP_REV = xxxx0003: EEPROM is current @ V3. Go to step # 6.

V3_EEPROM has been set by Mfg. since Q1-FY88; CIBCA.BIN V4.3 (DIAG-REL-30) was 1st SDC-released version with V3_EEPROM; pre-released V4.3 was (V3_EEPROM) only available from CSSE via ENET previously.

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b) RP_REV = xxxx0002: EEPROM is out of date @ V2_EEPROM version.

V2_EEPROM may cause false Link/T1025 errors on "self-test". UPDATE EEPROM using "EVGDA EEPROM PROGRAM UTILITY" as follows:

*** COORDINATE SYSTEM-SHUTDOWN WITH CUSTOMER/CLUSTER ***

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a. $ @SYSS$SYSTEM:SHUTDOWN ! Perform orderly shutdown.
b. === BOOT NEWEST "Ezsaa" DIAG. SUPV (DS>) FROM RX50 OR DISK.
c. === PLACE BL-FJ11D-ME "CIBCA UCODE UPDATE FLPY" IN CSA1:

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d. DS> SET LOAD CSA1:[SYSMAINT]
e. DS> LOAD EVGDA ! Load EEPROM PGRM UTIL.
f. DS> HELP EVGDA ATTACH ! CIBCA attach help.
g. DS> ATTACH NBIA HUB NBIA0 x ! NBIA log. unit #x
h. DS> ATTACH NBIB NBIA0 NBIB0 y z ! BI #y, BI node #z
i. DS> ATTACH CIBCA NBIB0 PAA0 mm 4 nn ! BI node #mm,
! BR level 4, CI node #nn
j. DS> SELECT PAA0 ! Select Device for Test
k. DS> START ! EVGDA "DEFAULT" section will test &
! program EEPROM
l. DS> START/SECTION=VERIFY ! Verify EEPROM ucode.
m. DS> START/SECTION=LOAD_UCODE ! Load & Verify CS-RAM with
! functional ucode.
o. === CIBCA EEPROM IS NOW LOADED WITH V3_EEPROM MICROCODE.
p. DS> ABORT ! DS> clean-up from EVGDA, allows proceeding
! directly to EVGAX Functional Diags.

```

6. *** COORDINATE WITH CUSTOMER/CLUSTER *** Perform an orderly shutdown of this system without using "Automatic Reboot", if not performed in Step # 6 already.

7. *** OPTIONAL VERIFICATION OF CIBCA WITH NEW V5.3 CIBCA.BIN ***
 CSSE recommends these diags to minimize customer data-integrity risks. Verify CIBCA with "EVGAA-4.2 & EVGAB-4.2" CI-FUNCTIONAL-DIAGS from DIAG-REL-31 Media BL-FI08F-DE, using newest "EZSAA" DS> available (Version 10.10, DIAG-REL-31 advised).

NOTE 1: CI-BUS Loopback cables (12-19907-01 x2 Attenuator Pad; 70-18530-00 x 4 Modularity Cables) are recommended with CI-FUNCTIONAL & CIBCA-Repair diags. Refer to CIBCA User's Guide Page 3-4 for cabling help. This avoids false diag errors when receiving "live" VMS Virtual-Circuit startup (SCS-handshake) request datagrams: Diags cannot talk with VMS.

NOTE 2: CI Functional Level testing is documented in CIBCA User's Guide Page 3-14.

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a. === BOOT NEWEST "EZSAA" DIAG. SUPV (DS>) FROM RX50 OR DISK.
b. === PLACE BL-FI08F-DE "CI-FUNCTIONAL-DIAG FLPY" IN CSA1:
c. DS> SET LOAD CSA1:[SYSMAINT] ! Diag/CI-ucode load-path
d. DS> LOAD EVGAA ! Load CI-FUNCT. Part-I
e. DS> HELP EVGAA ATTACH_CIBCA ! Help for CIBCA attach.
f. DS> ATTACH NBIA HUB NBIA0 x ! NBIA log. unit #x
g. DS> ATTACH NBIB NBIA0 NBIB0 y z ! BI #y, BI node #z
h. DS> ATTACH CIBCA NBIB0 PAA0 mm 4 nn ! BI node #mm,
! BR level 4, CI node #nn

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- i. DS> SELECT PAA0 ! Select Device for Test
 - j. DS> SET EVENT FLAG 1 ! Load new CIBCA.BIN V5.3 from
! BL-FI08F-DE in DS> load-path.
 - k. DS> SET FLAGS TRACE ! Print substest-titles as executed.
 - l. === INSTALL CI-BUS LOOPBACK CONNECTORS, IF INTENDED.
 - m. DS> START/PASS:5 !EVGAA only has "DEFAULT" section.
! On error, use REPAIR-DIAGS !!
 - n. DS> ABORT ! Clean-up for EVGAB
 - o. DS> LOAD EVGAB ! Load CI-FUNCT. Part-II
 - p. DS> CLEAR EV FL 1 ! No need to reload CIBCA.BIN
 - q. DS> START/PASS:5 ! EVGAB only has "DEFAULT" section.
! On error, use REPAIR-DIAGS !!
 - r. DS> EXIT
 - s. === REMOVE CI-BUS-LOOPBACK CABLES, if installed, &
RECONNECT CIBCA TO SC008 !
 - t. Diagnostic Verification complete: GO TO NEXT STEP.
8. *** COORDINATE WITH CUSTOMER/CLUSTER *** Reboot customer VMS software application, using standard customer boot procedures.
9. Update Site Management Guide to reflect this FCO.
10. Report this FCO activity on the LARS form using the "Fail Area/Module/FCO/Comments" columns as follows: "FCO CIBCA-I001" (See below for example).

LARS

	USA	GIA	EUROPE
Activity -			
Contract and Warranty	W	U	Y
Non Contract/Non Warranty	F	F	F
DEC Option	CIBCA	CIBCA	CIBCA
Type of Call	M	M	M
Action Taken	D	D	I
Fail Area-Module-FCO-Comments	CIBCA-I001	CIBCA-I001	CIBCA-I001

\^ CIBCA
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