

		Level of Urgency	Page__1
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FIELD CHANGE ORDER		Number: CI780-F1-I005	
Applicability: Retrofit CI780s to Revision Level "F1". This FCO incorporates ECO L0101-MK009. Field spares stock should also be upgraded. FCO upgrades L0101 Part Rev to "J1" and CI780 MICROCODE to V7.0. FCO implementation is no longer restricted.			
Problem/Symptom: 1. Numerous Functional Errors ("arbitration Timeout", "internal queue retry error"). 2. Need a variable sanity timer. 3. Fix "BUFFER LENGTH VIOL.", potential DATAGRAM FREE_Q corruption and theoretical BUFFER ambiguity by checking "valid" bit when using cached BUFF_DESC. 4. "Sanity Timer/ARB_TO" V6.0 CI_ucode Cluster hang problem.			
Quick Check: See page 2.			
Compatibility/Prerequisite FCO: CI780-R00D1		Est. Time to Install: 1 hour per node	
Special Tools or Test Equipment: (See page 2)			
FCO Parts Information			
Order by	Quantity:	Part Number:	Description:
FCO Kit#:			
EQ-01422-01	1		(See page 2)
FA-04707-01	1		FCO Document
EQ Kit Variation System/Option Applic: N/A			
Approvals			
CSSE Engineer Bob Brassard	F.S. Product Safety Jerry Gannelli	F.S. Logistics Ed Duggan	
CSSE Manager Jan Sicard	F.S. Microfiche Libraries EP-FSNVX-LB VAX	Affected Population: 9500/4000/1000	
ESD&P Micropub. Ray LeBlanc	VAXnotes STARS	Initial Kitting: 9500/4000/1000	
Revision: A		Hardcopy Publication: 14,500	

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Quick Check: Continued from page 1.

Location	Part #	Location	Part #	Location	Part #
E114	23-296F3	E95	23-297F3	E76	23-298F3
E174	23-299F3	E154	23-300F3	E134	23-301F3

SPECIAL TOOLS: Continued from page 1.

Field Service Tool Kit.

VELOSTAT Electrostatic Field Service Kit (P/N 29-11762).

Loopback Attenuators (12-19907-01).

Blank RX01-K floppy (CI780).

"Guide to VAX/VMS System Management and Daily Operations" manual.

FCO KIT CONTENTS: Continued from page 1.

	Quantity	Part Number	Description
	-----	-----	-----
EQ-01422-01	1	23-296F3-00	Microcode ROM
	1	23-297F3-00	Microcode ROM
	1	23-298F3-00	Microcode ROM
	1	23-299F3-00	Microcode ROM
	1	23-300F3-00	Microcode ROM
	1	23-301F3-00	Microcode ROM
	1	36-19208-01	Wire Marker "1"
	1	36-19210-10	Wire Marker "J"
	1	FA-04707-01	FCO Document
EQ-01422-02	1	BB-FG70B-DE	Magtape

NOTE: Magtape with 1 save-set "CID020.A" containing CI780.BIN @ V7.0, CI780/CI750 functional (EVGAA/B) and Repair-level (EVCGB/C/D; ECCGA..E; EVCKA..F/CIBCI) diagnostics, 4 Supervisors (E*SAA), and EVXCI CI_Exerciser files.

 Directory of CID020.A save-set is included *****

 in APPENDIX-I of this FCO. *****

EQ-01422-03	1	BB-F104A-ME	Magtape
-------------	---	-------------	---------

NOTE: Magtape with only CI780.BIN file @ V7.0 for Self-Maint. customers without Diagnostic License.

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CI780 OPTION LEVEL REVISION CHART

CI780	C1	D1	E1, (**EE1)	F1
L0100	D1, (B2*)	D1, (B2*)	D1, (B2*)	D1, (B2*)
L0101	H1	H1	H1, **HH1	J1
L0102	C1	C1, D1	C1, D1	C1, D1
L0104	C, C1, D1	C, C1, D1	C, C1, D1	C, C1, D1
Microcode				
CI780.BIN	Rev 3.0	Rev 4.0	Rev 5.0	Rev 7.0
AS-T213*-DE	F	G	H	
			**Rev 6.0	
BACKPLANE				
70-17654	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 used only if CI780-EE1-I005 FCO needs to be installed making the CI780 Rev "EE1".

REQUIREMENTS:

System implementation of this micro-code requires that CI780's have had FCO # CI780-R00D1 installed. This basically implies that the CI780 is currently running with at least V4.0 of CI micro-code, and has V3.0 PROMs installed on the L0101 module, as indicated by L0101 PART REV "H1" (Etch Revisions "A" or "B").

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CI MICRO-CODE UPGRADE OVERVIEW:

CI micro-code revision V7.0 consists of new PROMs and WCS file, CI780.BIN V7.0 micro-code. This upgrade requires replacing six (6) pluggable PROMs (24-pin DIP IC) on the CI780's L0101 (IPB) module, as well as adding new V7.0 CI780.BIN file to console media. The CI micro-code upgrade process requires updating CI780.BIN file to V7.0 on the console, prior to changing L0101 PROMs so that PROM and WCS (CI780.BIN) code matches (system will not boot if CI780 PROM/WCS mis-match occurs). At the completion of this FCO the 0101 should be marked "J1" with the appropriate brady markers.

NOTE: A duplicate copy of the console media with CI micro-code revision V5.0 or V4.0 and the old revision 3.0 PROMs must be maintained on-site until this upgrade is completed. If a problem arises this will enable an expedient downgrade to 5.0 or 4.0 CI micro-code.

CI MICRO-CODE UPGRADE TABLE OF CONTENTS: PAGE NO.

I.	CI Micro-Code Revision Verification.....	05
II.	Backup of "Existing" Console Media.....	06
	Console media to be used in performing upgrade.....	06
III.	Backup-Restore CI780.Bin V7.0 From Tape to System Disk.....	06
IV.	Moving CI780.BIN V7.0 To Console Media.....	07
V.	Removing Old Proms and Installing Revision 6.0.....	08
VI.	Verify upgrade is operational	13

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*****
*                               NOTE                               *
*   WITH VAXCLUSTERS, IT IS STRONGLY RECOMMENDED THAT THE      *
*   CUSTOMER PERFORM ALL SYSTEM SHUTDOWN AND BOOTUP OPERATIONS, *
*   TO AVOID IMPACTING CUSTOMER'S APPLICATION   !!!             *
*****

```

I. CI MICRO-CODE REVISION VERIFICATION:
=====

This section explains how to determine the CI780 PROM revision level.

On a halted, power-downed CI780 option, CI micro-code PROM revision can be verified by removing the L0101 module and checking the socketed PROM part numbers.

PROM REVISION V7.0:

IC Location	Part Number	IC Location	Part Number
E76	23-298F3-00	E134	23-301F3-00
E95	23-297F3-00	E154	23-300F3-00
E114	23-296F3-00	E174	23-299F3-00

PROM REVISION V3.0:

IC Location	Part Number	IC Location	Part Number
E76	23-271F3-00	E134	23-274F3-00
E95	23-270F3-00	E154	23-273F3-00
E114	23-269F3-00	E174	23-272F3-00

On system with VMS running, from a video-terminal, issue the DCL command:
\$ "SHOW CLUSTER/CONTINUOUS <CR> ADD RP_REVIS <CR>"

The PROM and WCS revisions levels will be displayed on the screen under the column "RP_REVIS" in the format:

```
"XXXXYYYY"      ! XXXX = CI780.BIN/RAM Rev.
                  ! YYYY = L0101 ROM Rev.
```

=====

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II. BACKUP OF "EXISTING" CONSOLE MEDIA:

=====

1. Create a duplicate copy of the console media with the customer's current CI microcode. This is easily "saved" and "restored" with SYS\$UPDATE:CONSCOPY.COM. It is advisable to install CI780.BIN revision V7.0 micro-code on a duplicated console media, avoiding changes to the known, working console. CONSCOPY.COM greatly simplifies this task since it automatically saves and restores a complete console.

NOTE: This is especially true for VAX 8600 systems, since any problems encountered during installation of the FCO would necessitate the use

of a "spare" RL02 to regress back to the previous revision.

2. Refer to "Guide to VAX/VMS System Management and Daily Operations" Section 2.8.1 for a complete description of CONSCOPY.COM operations.

NOTE: The CONSCOPY "backup" of the console media can be skipped if the Field Service Engineer and customer are confident that there is a working backup copy of the system's console media with CI780.BIN revision V4.0 or V5.0 CI_ucose.

III. "BACKUP-RESTORE" CI780.BIN V7.0 FROM TAPE TO SYSTEM DISK:

=====

This section describes the steps needed to move CI780.BIN revision V7.0, CI7X0 diagnostics, Diag. Supervisor-V8.2, and EVXCI/CI_Exerciser softcopy instructions from the "Licensed" magtape (P/N: BB-FG70B-DE) to system disk system maintenance account. The "Non-licensed" magtape, BB-F104A-ME, FCO Kit # EQ-1422-03, is intended for Self-Maintenance customers without a Diagnostic License, and only contains the CI780.BIN file in a non-saveset format: DO NOT USE BACKUP; SIMPLY MOUNT & COPY FILE TO [.CIV7] DIRECTORY !!

1. Place the BB-FG70B-DE magtape supplied with kit EQ-01422-02 on a 9 Track, 1600 BPI Phase Encoded Tape-Drive (i.e. TE16, TU77, TU78 etc.).
2. LOG INTO THE "SYSTEM" MANAGER'S ACCOUNT and type the following commands at the VMS DCL prompt. SEE APPENDIX-II for details on restoring CI microcode, EXER, and diags into the SYS\$COMMON:[SYSMAINT] account.

```
$ SET DEFAULT SYS$UPDATE           ! Get into System Update
$ @VMSINSTAL                       ! Start VMSINSTAL
```

Answer questions: It is not necessary to stop DECNET or BACKUP system disk. Product name = CID020.
The old CI_EXER files should be purged.

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```
$ SET DEFAULT SYS$COMMON:[SYSMAINT]
```

Use SYS\$SYSROOT:[SYSMAINT] if on a non-clustered or non-common-system disk type of VAX system.

```
$ DIRECTORY/SIZ/DATE=MOD           ! Check for CI780.BIN,
                                     ! diag files, etc.
$ COPY CI780_V70.BIN CI780.BIN     ! Create default V7.0
```

IV. MOVING CI780.BIN V7.0 TO CONSOLE MEDIA:

=====

NOTE: A duplicate copy of the console media with CI micro-code revision V5.0 or V4.0 and the old revision V3.0 PROMs must be maintained on-site until this upgrade is completed. If a problem arises this will enable an expedient downgrade to V5.0 or V4.0 CI micro-code.

There are two (2) critical steps in this copy operation. First, use the "/TRANSFER=BLOCK" switch in "EXCHANGE COPY" command from the disk CI780_V70.BIN to console CI780.BIN. Second, ensure that the console CI microcode file is named "CI780.BIN" and not CI780_V70.BIN. CI780_V70.BIN should be preserved in the SYS\$MAINTENANCE to maintain distinction with older revisions of the CI micro-code.

1. Insert the "backup" copy of the RX01 console media into console storage device CSA1.
2. LOG INTO THE "SYSTEM" MANAGER'S ACCOUNT and use DCL commands:

```

$ SHOW DEVICE CSA                      !Check if CONSOLE known.
      ! If CSA1: not present, then run SYSGEN and connect:
$ MCR SYSGEN
SYSGEN> CONNECT CONSOLE
SYSGEN> EXIT
$ SET DEFAULT SYS$COMMON:[SYSMAINT]
$ EXCHANGE
EXCH> DIRECTORY/FULL CSA1:CI780.BIN
EXCH> DELETE CSA1:CI780.BIN
EXCH> COPY/LOG CI780_V70.BIN CSA1:CI780.BIN/TRANSFER=BLOCK
EXCH> DIRECTORY/FULL CSA1: !CHECK FOR CI780.BIN and Length
                          !IS 36 BLOCKS LONG !!
EXCH> EXIT
$ COPY CI780_V70.BIN SYS$MAINTENANCE:CI780.BIN !Copy into
      ! system-specific account for EVGAA/B-3.5 diagnostic use !

$LOGOUT

```

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V. REMOVING OLD PROMS AND INSTALLING REVISION 6.0 PROMS:

=====

This section describes the process for removing old revision CI780

micro-code PROMs from the L0101 module and installing the PROMs supplied with this kit. Retain revision V3.0 CI micro-code PROMs on-site for downgrading L0101 PROM micro-code until the upgrade is complete.

Pay careful attention to power-down procedures, use of the ESDS-Velostat Kit, and PROM insertion (so that pins do not fold under).

After completion of this upgrade the new revision level of the L0101 module is PART REVISION - "J1", for both Etch Rev. "A" or "B".

NOTE 1: Console media must be updated prior to upgrading L0101 PROMs to ensure CI780 PROM/RAM micro-code compatability on system reboot.

NOTE 2: With VAXCLUSTERS, it is strongly recommended that the customer perform all system shutdown and bootup operations, to avoid impacting customer's application.

NOTE 3: The L0101 module, contains electrostatic discharge sensitive devices (ESDS). The use of the VELOSTAT kit is essential to prevent damage which may not be noticed immediately.

1. Shutdown the system by executing the Shutdown Command Procedure, CUSTOMER SHOULD PERFORM THIS. The command is:

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

2. Set the five-position keyswitch on the controller panel to the "OFF" position.
3. For 11/78X set all Memory Power Supply Switches to the "OFF" position. The memory power supplies can be identified by the label "Memory Power Supply" affixed to the top of the H7100s which are used for that purpose.

```
*****  
*                               WARNING                               *  
*                               *                                   *  
*   If Memory Power Supply switch is "ON" and Circuit           *  
*   Breaker on Power Controller is set to "OFF", the           *  
*   Battery Backup Unit (if installed as an option),           *  
*   will be turned "ON". To turn off Battery Backup           *  
*   Unit, Memory Power Supply and Battery Backup must         *  
*   be turned "OFF".                                           *  
*                               *                                   *  
*****
```

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4. 11/78X CPU cabinet: Set the circuit breaker CB1 on the 869D power controller to the "OFF" position.
5. 8600 CPU and SBI expander cabinets: Set the circuit breaker SB1 on the 876A power controller to the "OFF" position.
6. Disconnect all four BNCIA cables for this VAX-11/780 node at the SC008. Using the loopback attenuators connect:

Transmit Path "A" (TA) to Receive Path "A" (RA)
 Transmit Path "B" (TB) to Receive Path "B" (RB)

```
*****
*
*                   C A U T I O N
*
*   The L0101 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.
*
*****
```

7. 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-11/78X/8600 system.
 - d. Attach the wrist strap to either wrist and the alligator clip to a convenient portion of the mat.
8. Remove the module from it's CPU option slot and place it on the mat.

NOTE 1: IN NEXT 6 STEPS, ENSURE PROM-IC "PIN-1" (NOTCH) PLACEMENT IS NOT REVERSED FROM OLD PROMS-ICS.

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9. Unplug PROM P/N 23-269F3-00 at location E114 on L0101. Install new PROM P/N 23-296F3-00 in the same location.

10. Unplug PROM P/N 23-270F3-00 at location E95 on L0101.

Install new PROM P/N 23-297F3-00 in the same location.

11. Unplug PROM P/N 23-271F3-00 at location E76 on L0101.
Install new PROM P/N 23-298F3-00 in the same location.

```

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12. Unplug PROM P/N 23-272F3-00 at location E174 on L0101.
Install new PROM P/N 23-299F3-00 in the same location.
13. Unplug PROM P/N 23-273F3-00 at location E154 on L0101.
Install new PROM P/N 23-300F3-00 in the same location.
14. Unplug PROM P/N 23-274F3-00 at location E134 on L0101.
Install new PROM P/N 23-301F3-00 in the same location.

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15. Attach the brady markers "J1" to the L0101 module handle and reinstall the L0101 module in slot 4 of the CI780 backplane.
16. Power-up the system (by performing Step 1-5, Page 8, in reverse order).
17. Run the following LEVEL-III (offline) diagnostics under the DIAG. SUPV.-8.2 (E*SAA.EXE V8.2 from Magtape) to verify that the CI780 is functional:

DIAGNOSTIC	MINIMUM VERSION	TITLE
-----	-----	-----
EVGAA	3.4	CI Functional Diag Part I
EVGAB	3.4	CI Functional Diag Part II

***** NOTES ON USING CI7X0 DIAGNOSTICS !! *****
 ***** NOTES ON USING CI7X0 DIAGNOSTICS !! *****

1. 86XX SYSTEM - PERFORM THIS TO "ATTACH" CI780:

```

>>>@EDSAA          !RUN DIAG. SUPERVISOR
DS>RUN EVSBA        !RUN AUTOSIZER
DS>DESELECT ALL
DS>DETACH/ADAPTER=SIO PAA0
DS>ATTACH CI780 SIO PAA0 14 4 15
                    !TEST CI780 AT NODE 15
DS>SEL KAO, SIO, PAA0 ! TEST GROUP
DS>SH SEL           ! SHOW SELECTED DEVICES

```

2. V7.0 REQUIRES NEW DIAGS: V7.0 CI_ucose will cause errors with the CI780 Diagnostics from Diagnostic Release media previous to EVNDX Release-24. It is necessary to use EVGAA/EVGAB-3.5 version, along with the supplied ESSAA-8.2 Diag. Supv. (EDSAA-8.2 DS> for VAX8600) !!
3. CI_UCODE CURRENT VERSION LOADING: Current functional diags (EVGAA/B) on a CI780 require setting of "EVENT FLAG 1" (DS>"SET EV FL 1") to load correct CI_ucose into RAM from separate CI780.BIN file from SYS\$MAINTENANCE (DS> "LOAD PATH") account.
4. CI780.BIN V7.0 FILE which matches the revision of the PROMS in the CI_PORT (L0101) must be placed on the media OR IN THE DISK-DIRECTORY (DS>"SHOW LOAD" & "SET LOAD xxxx") from which the EVGAA/B diagnostics were loaded !!!

```

***** END OF DIAGNOSTIC NOTES !! *****
***** END OF DIAGNOSTIC NOTES !! *****

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18. Remove the loopback attenuators and reconnect the BNCIA cables to their original SC008 ports.
19. Boot system into VAXCLUSTER, using customers "standard operating procedures". IT IS PREFERRED THAT THE CUSTOMER PERFORM THIS STEP!
20. If there are problems BOOTing system through the CI780 or the CI_PORT will not start, then the CI780 Functional Diags Part-I/II (EVGAA/B-3.5) should be re-run; and the Repair-Level diagnostics for the CI780 (EVCGA/B/C/D-1.0; or ECCGA/B/C/D/E-1.0/1.1 for the CI750) should also be used !!

VI. VERIFY UPGRADE IS OPERATIONAL:
=====

[SOURCE...]	CI780_V60.BIN;2	36	19-NOV-1985	15:14
[SOURCE...]	CI780_V70.BIN;1	36	6-FEB-1986	09:54
[SOURCE...]	CIELOAD.COM;2	10	11-MAR-1986	10:13
[SOURCE...]	CXCANCEL.OBJ;4	5	11-MAR-1986	10:12
[SOURCE...]	CXCMD.OBJ;3	19	11-MAR-1986	10:14
[SOURCE...]	CXCMDFDT.OBJ;3	8	11-MAR-1986	10:17
[SOURCE...]	CXINIT.OBJ;3	4	11-MAR-1986	10:19
[SOURCE...]	CXINPUT.OBJ;3	6	11-MAR-1986	10:20
[SOURCE...]	CXTABLES.OBJ;3	5	11-MAR-1986	10:21
[SOURCE...]	CYCMD.OBJ;3	13	11-MAR-1986	11:38
[SOURCE...]	CYINIT.OBJ;3	3	11-MAR-1986	11:39
[SOURCE...]	CYINPUT.OBJ;3	5	11-MAR-1986	11:39
[SOURCE...]	CYMISC.OBJ;2	9	11-MAR-1986	11:39
[SOURCE...]	CYTABLES.OBJ;2	3	11-MAR-1986	11:40
[SOURCE...]	ECCGA.EXE;2	32	4-MAR-1983	09:58
[SOURCE...]	ECCGA.HLP;2	4	5-APR-1983	10:39
[SOURCE...]	ECCGB.EXE;2	102	13-JUL-1983	08:28
[SOURCE...]	ECCGB.HLP;2	6	5-APR-1983	10:39
[SOURCE...]	ECCGC.EXE;2	117	4-MAR-1983	08:51
[SOURCE...]	ECCGC.HLP;2	11	5-APR-1983	10:39
[SOURCE...]	ECCGD.EXE;2	124	11-NOV-1983	11:28
[SOURCE...]	ECCGD.HLP;2	6	4-JAN-1984	09:31
[SOURCE...]	ECCGE.EXE;2	111	13-JUL-1983	08:29
[SOURCE...]	ECCGE.HLP;2	9	5-APR-1983	10:40
[SOURCE...]	ECSAA.EXE;547	294	22-JUN-1985	19:05
[SOURCE...]	EDSAA.EXE;216	297	1-AUG-1985	13:30

```

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APPENDIX - I (Page 2 of 2)

=====

DIRECTORY LISTING OF "SAVESET" ON P/N:BB-FG70B-DE MAGTAPE

=====

[SOURCE...]	ESSAA.EXE;1624	279	22-JUN-1985	19:06
[SOURCE...]	EVCGA.EXE;7	105	10-OCT-1984	16:03
[SOURCE...]	EVCGA.HLP;5	8	15-NOV-1984	09:14
[SOURCE...]	EVCGB.EXE;3	103	31-OCT-1984	14:39
[SOURCE...]	EVCGB.HLP;3	10	15-NOV-1984	09:17
[SOURCE...]	EVCGC.EXE;9	124	11-OCT-1984	00:15
[SOURCE...]	EVCGC.HLP;4	10	15-NOV-1984	10:14
[SOURCE...]	EVCGD.EXE;8	108	11-OCT-1984	00:13
[SOURCE...]	EVCGD.HLP;4	13	15-NOV-1984	10:18
[SOURCE...]	EVCKA.EXE;21	94	27-DEC-1985	18:06
[SOURCE...]	EVCKA.HLP;29	4	8-JAN-1986	18:54
[SOURCE...]	EVCKB.EXE;12	113	6-JAN-1986	17:40
[SOURCE...]	EVCKB.HLP;19	5	8-JAN-1986	22:50
[SOURCE...]	EVCKC.EXE;9	121	2-JAN-1986	09:09
[SOURCE...]	EVCKC.HLP;14	8	8-JAN-1986	21:13

STEP2. Check that no users are logged into the system and that the DECnet is not on line. If the DECnet is up, type,
 \$ MC NCP
 NCP> set executor state off
 NCP> EXIT
 \$

STEP3. Invoke VMSINSTAL.

command line:

\$ SYS\$UPDATE:VMSINSTAL CIDnnn ddcn:

nnn is the version number portion of the product name. For example, version 2.0 of this tape would be called CID020.

ddcn is the device name. Dd is the device name, c is the controller letter, and n is the unit number. For example, if your kit was on a RX01 or TU58 media, you specify device CSA1:. If the kit is on magtape, you will have to specify the tape drives full name.

```

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APPENDIX - II (Page 2 of 2)

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EXTRACT FROM CID020.A CI_EXER RELEASE NOTES PAGE 2 OF 2

=====

If your kit is distributed on a floppy or a TU58 the CID kit will be on two pieces of media. After the BACKUP utility is finished with the first floppy or tape it will prompt you to insert the second half of the kit into the same drive.

ex.

```
%BACKUP-I-RESUME, resuming operation on volume 2
%BACKUP-I-READYREAD, mount volume 2 on ddcn: for reading
Enter YES when ready :
```

Enter YES after the second volume has been put into the drive. If you enter NO, BACKUP displays the the query again. If you need to exit from installation procedure, enter <CTRL/Y>. The installation procedure then deletes all files it created and exits.

On completion of this installation all of the required files will be copied into the SYS\$MAINTENANCE area of your

system. If your particular system exists in a cluster environment the files will be copied into the cluster common [SYSMAINT] area, and all CIE files on all cluster members' node specific areas will be deleted.

** note -- The CI microcode file will be loaded by VMS at boot time. Therefore CI780.BIN must be copied from the SYS\$MAINTENANCE to the console media prior to the boot of the system. Use EXCHANGE Utility to put the binary file onto the console media.

** note -- There are 3 versions of CI_ucode provided on this tape, version 5, 6, 7. They are labeled CI780_v50.bin, CI780_v60.bin and CI780_v70.bin respectively. You must select the version that matches the rom version in your CI hardware. Rename the selected version to CI780.bin. Then update the console media, if needed, using the following command.

```

$ EXCHANGE
EXCHANGE> COPY SYS$MAINTENANCE:CI780.BIN -
              CSA1:CI780.BIN/TRANSFER_MODE=BLOCK
EXCHANGE> EXIT
$

```

RUNNING THE CI FUNCTIONAL DIAGNOSTICS

Consult the EVGAA.DOC and/or EVGAB.DOC files.

```

- - - - -
|d|i|g|i|t|a|l|
|_|_|_|_|_|_|_|_|

```

```

FCO    CI780-F1-I005
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```

LARS Example

Activity	DEC Option	Type of Call	Action Taken	FCO # Comments	Material Used
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For Contract and Warranty Customers U.S. and G.I.A.

W	Option #	M	D	FCO #	EQ Kit #
	CI780			CI780-F1-I005	EQ-01422-01 EQ-01422-02 EQ-01422-03

For Per Call Customers U.S., G.I.A and Europe

F	Option #	M	D	FCO #	EQ Kit #
	CI780			CI780-F1-I005	EQ-01422-01 EQ-01422-02 EQ-01422-03

For Contract and Warranty Customers Europe

Y	Option #	M	D	FCO #	EQ Kit #
	CI780			CI780-F1-I005	EQ-01422-01 EQ-01422-02 EQ-01422-03

\^ CI780
 \\CI780
 \\CI780-F1
 \\BRASSARD
 \\1986
 \\SEP
 \\FCO_DOCS