MicroVAX/VAXserver 3000-series to VAX 4000 Model 200 Conversion Guide

Order Number   EK-MVS30-CG-001

Digital Equipment Corporation

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Contents

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About This Guide

This guide describes how to convert from a VAXserver 3300/3400 system to a VAXserver 4000-200 system and from a MicroVAX 3300/3400 system to a VAX4000-200 system. This guide also contains forms to be returned with the old system module.

Intended Audience

This document is intended for Digital Customer Services personnel and licensed self-maintenance customers.

Conversion Kits

Table 1 lists the system (before conversion), conversion kit number, and the upgrade (after conversion).

Table 1   Conversion Kits

System	Conversion Kit Number	Upgrade
MicroVAX 3300/3400	660SU–AA –AB –AC –AD	VAX 4000-200
VAXserver 3300/3400	660SU–BA –BB –BC –BD	VAXserver 4000-200

Customer Responsibilities

Customers should not install this conversion kit unless they are qualified self-maintenance customers. Only qualified maintenance personnel should perform the installation procedure. If you are not a qualified self-maintenance customer, call Digital Customer Services to schedule a system conversion.

It is the customer's responsibility to perform a software backup before a Digital Customer Services representative arrives at your site.

When the conversion is complete, return the old CPU module to Digital. Appendix A contains forms that need to be completed by the Customer Services representative. The customer and Digital Customer Services representative must sign the forms.

Digital Customer Services Responsibilities

The Customer Service Representative should contact the customer to ensure that the customer's software is backed up before arriving at the site.

After installation of the conversion kit, the Customer Services representative must complete the following forms and remove them from this document by tearing them along the perforated line. The forms must be signed by the customer and the Customer Services representative. The following forms are in Appendix A.

• Customer Services Worksheet

• Installation Receipt–Customer Copy

• Installation Receipt–Customer Services Copy

• Return Material Checklist

The Customer Services representative should give the customer the signed Installation Receipt–Customer Copy. The representative should include the signed Installation Receipt–Customer Services Copy with the CPU module that is being returned to Digital to ensure the customer receives credit.

Organization

This document contains one chapter and one appendix:

Chapter	Description
1	Describes how to install the conversion kit on a VAXserver 3300 /3400 or MicroVAX 3300/3400 system.
Appendix A	Contains forms for the return of the customer module and a list of the Customer Administrative Services (CAS) district offices.

Conventions

The following conventions are used in this guide:

Convention	Meaning
CAUTION	Provides information to prevent damage to equipment or software.
NOTE	Provides general information about the current topic.

Related Document

The following document is a related document:

Documentation	Order Number
KA660 CPU System Maintenance	EK-498AA-MG

1

VAXserver/MicroVAX 3300/3400 Conversion

This chapter describes how to convert from a VAXserver 3300/3400 system to a VAXserver 4000-200 system, and from a MicroVAX 3300/3400 system to a VAX4000-200 system.

CAUTION
Memory module MS650-AA will not function with a KA660-XX CPU module. When a KA640 CPU is removed and the system is converted to a KA660–XX system:

- **Install an MS650-BA (16-Mbyte) memory or MS650-BB memory.**

1.1 Summary of Conversion

The tasks required to convert from a VAXserver 3300/3400 system to a VAXserver 4000-200 system and from a MicroVAX 3300/3400 system to a VAX 4000-200 system, are summarized below.

To begin the conversion, go to Section 1.2.

1. Have the customer back up the system software.

2. Run the diagnostics to verify system operation.

3. Unpack and inventory the conversion kit.

4. Remove the front panel.

5. Remove the CPU I/O cover cables.

6. Remove the CPU I/O cover.

7. Disconnect the CPU module cables.

8. Remove the old CPU module.

9. Install the new KA660–AA/BA (M7626) CPU module.

10. If necessary, upgrade the old memory module/s to MS650-BA/BB.

11. Connect all cables.

12. Reinstall the CPU I/O panel.

13. Install the new medallion and labels.

14. Replace the front panel.

15. Run the diagnostics to verify system operation.

16. Have the customer verify that the system boots and operates correctly.

17. Complete the forms in Appendix A.

1.2   Unpacking the Kit

1. Make sure there is no external damage on the shipping container, such as dents, holes, or crushed corners.

2. Unpack the conversion kit and check its contents against the shipping invoice.

   CAUTION
   Modules can be damaged by static discharge if an antistatic wrist strap and antistatic mat are not used during handling. The wrist strap and mat are in the antistatic kit in the Customer Services toolkit.

   Table 1–1 lists the kit contents.

Table 1–1   Conversion Kit Contents

Description	Kit Variations*							
	AA	AB	AC	AD	BA	BB	BC	BD
Server CPU module (P/N: M7626-BA)	–	–	–	–	X	X	X	X
Server CPU module label (P/N: 36-26883-A7)	–	–	–	–	X	X	X	X
VAX CPU module (P/N: M7626-AA)	X	X	X	X	–	–	–	–

*The (X) in the column represents parts that are included in the kit. The dash (–) represents parts that are not included in the kit.

Table 1–1 (Cont.)   Conversion Kit Contents

Description	Kit Variations*							
	AA	**AB**	**AC**	**AD**	**BA**	**BB**	**BC**	**BD**
VAX CPU module label (P/N: 36-26883-A6)	X	X	X	X	–	–	–	–
Conversion label (P/N: 36-15946-00)	X	X	X	X	X	X	X	X
VAX 4000-200 (BA213) (P/N: 74-34425-46)	–	X	–	X	–	–	–	–
VAXserver 4000-200 (BA213) (P/N: 74-34425-48)	–	–	–	–	–	X	–	X
VAX 4000-200 (BA215) (P/N: 74-36884–09)	X	–	X	–	–	–	–	–
VAXserver 4000-200 (BA215) (P/N: 74-36884-13)	–	–	–	–	X	–	X	–
Memory module (P/N: MS650-BB)	–	–	X	X	–	–	X	X
Memory module label (MS650-BB) (P/N: 36-26883-B8)	–	–	X	X	–	–	X	X
VAX 4000-200 bill board label (BA213) (P/N: 36-27354-39)	–	X	–	X	–	–	–	–
VAXserver 4000-200 bill board label (BA213) (P/N: 36-27354-43)	–	–	–	–	–	X	-	X
VAX 4000-200 bill board label (BA215) (P/N: 36-29304-08)	X	–	X	–	–	–	–	–
VAXserver 4000-200 bill board label (BA215) (P/N: 36-29304-10)	–	–	–	–	X	–	X	–

*The (X) in the column represents parts that are included in the kit. The dash (–) represents parts that are not included in the kit.

Table 1–1 (Cont.)   Conversion Kit Contents

Description	Kit Variations*							
	AA	**AB**	**AC**	**AD**	**BA**	**BB**	**BC**	**BD**
BA213-series serial label (P/N: 36-27838-55)	–	X	–	X	–	X	–	X
BA215-series serial label (P/N: 36-29305-09)	X	–	X	–	X	–	X	–
Conversion Guide (P/N: EK-MVS30-CG)	X	X	X	X	X	X	X	X
VAX 4000-200 Customer Hardware Information Kit (P/N: QZ-K25AA-GZ)	–	X	–	X	–	X	–	X
VAX 4000-200 Hardware Information Kit (P/N: QZ-K25AB-GZ)	X	–	X	–	X	–	X	–

*The (X) in the column represents parts that are included in the kit. The dash (–) represents parts that are not included in the kit.

Table 1–2 lists the VMS licenses included with the kit.

Table 1–2   VMS Licenses

Description	Variation*							
	AA	**AB**	**AC**	**AD**	**BA**	**BB**	**BC**	**BD**
VMS 1-20 user (P/N: QL-001AS-BJ)	X	X	X	X	–	–	–	–
DECnet VAX END NODE (P/N: QL-D04AS-AA)	X	X	X	X	–	–	–	–
VMS file and application server (P/N: QL-001AC-BA)	–	–	–	–	X	X	X	X
DECnet VAX F/F (P/N: QL-D05AC-AA)	–	–	–	–	X	X	X	X
VAXcluster (P/N: QL-VBRA2-AA)	–	–	–	–	X	X	X	X
VMS /UX connect (P/N: QL-VHRA9-JB)	–	–	–	–	X	X	X	X

*The (X) in the column represents parts that are included in the kit. The dash (–) represents parts that are not included in the kit.

3. Unpack the CPU module and place it on a grounded antistatic mat.

4. Save the packing material for when you return the old module.

5. If any item is missing or damaged:

    • Contact the customer's sales representative.

   • Contact the customer's delivery agent.

1.3   Before Installing the Kit

1. Have the customer back up the system software before Customer Services arrives. It is the customer's responsibility to back up the system software.

2. Power up the system and run diagnostics to verify system operation.

3. Turn off the system power before installing the kit.

1.4   Installing the Kit

To install the conversion kit:

1. Turn the key switch to the bottom position and lower the access door.

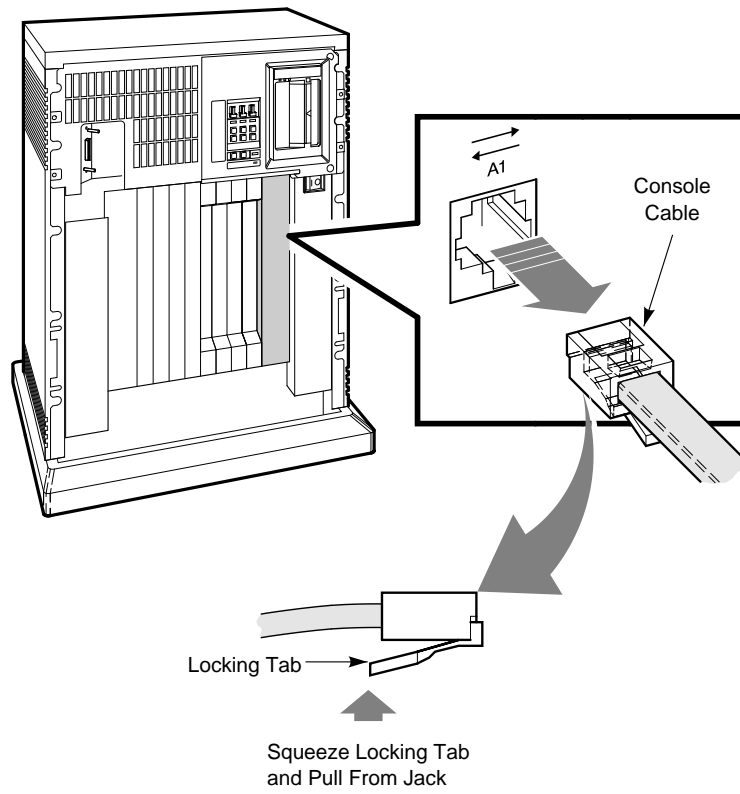2. Remove the front panel as shown in Figure 1–1.
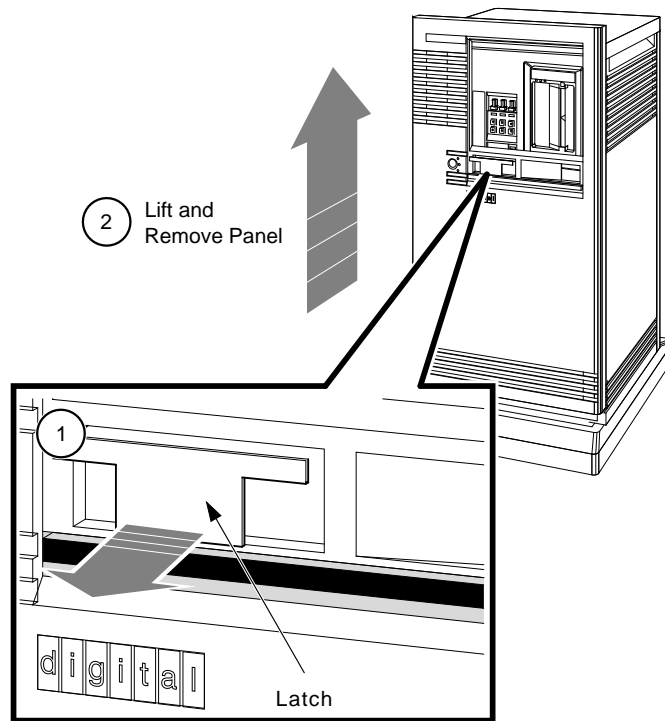
MLO-002609

Figure 1–1   Removing Front Panel

3. If the console cable is present, remove the console cable as shown in Figure 1–2.

4. If the Ethernet cable is present, remove the Ethernet cable from the I/O panel.

   CAUTION
   Use the antistatic wrist strap and the antistatic mat when working with the modules.

A1

Console
Cable

Locking Tab

Squeeze Locking Tab
and Pull From Jack

MLO-002610

Figure 1–2   Removing Console Cable

5.   Remove the CPU I/O panel as shown in Figure 1–3.

To Release: Push In and Turn
Counterclockwise 1/4-Turn

To Fasten: Push In and Turn
Clockwise 1/4-Turn

Attach Antistatic
Wrist Strap to
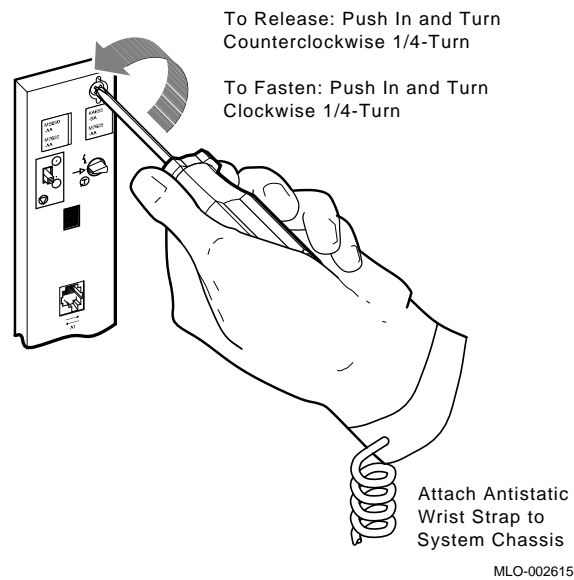System Chassis

MLO-002615

Figure 1–3   Removing CPU I/O Panel

6. Disconnect the CPU module cables.

7. Remove the old CPU module from slot 1.

8. Install the new KA660–AA/BA CPU module in slot 1.

    NOTE
    **If there are any MS650-AA memory modules installed in the
    system, you must remove the modules from the system and
    install either the MS650-BA or MS650-BB memory module(s).**

    **A 3-connector memory cable is provided in the memory kit for
    a 2-memory module connection.**

9. Remove the 50-pin daisy-chain memory cable that connects the
    memory modules to the CPU module, if applicable.

10. Install the new memory modules, if applicable.

11. Reconnect the memory modules and DSSI cables to the CPU module.

12. Connect the new CPU I/O panel over slots 1 and 2.

13. Attach the new CPU labels to the CPU I/O panel as shown in Figure 1–4.
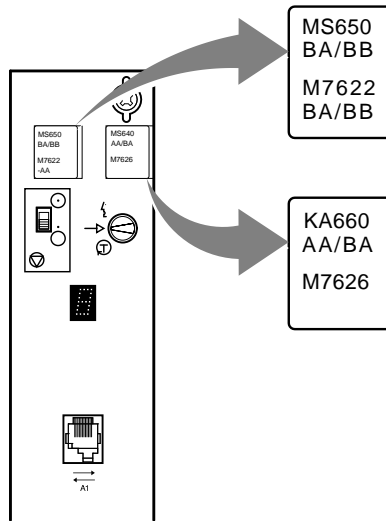
LJ-00537-TI0

Figure 1–4   Attaching CPU Labels

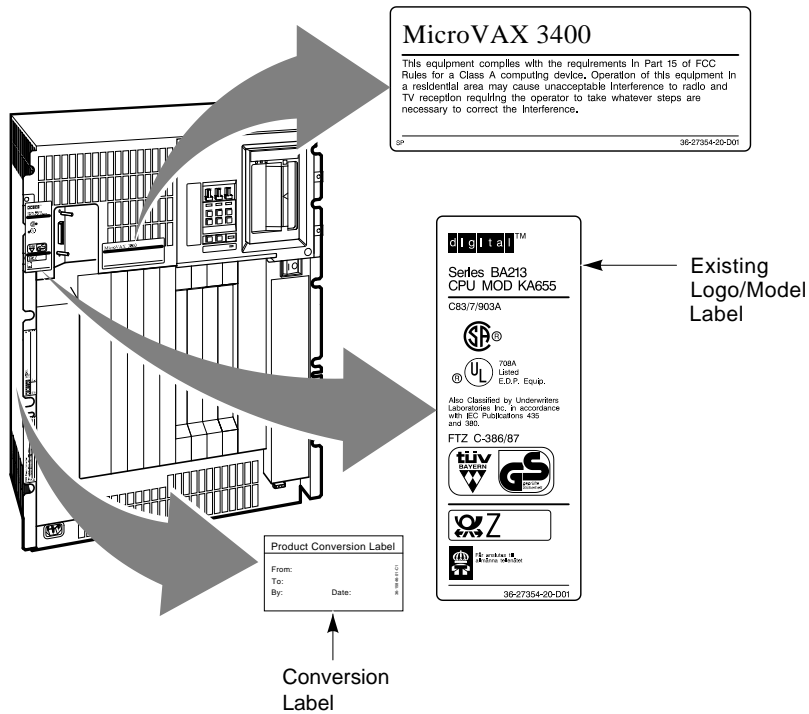14. Replace the front panel.

15. Power up the system and run the system diagnostics to verify system operation.

16. Attach the new serial label and logo/model label over the existing serial label and logo/model labels as shown in Figure 1–5 and Figure 1–6.

17. Attach the conversion label as shown in Figure 1–5 and Figure 1–6.
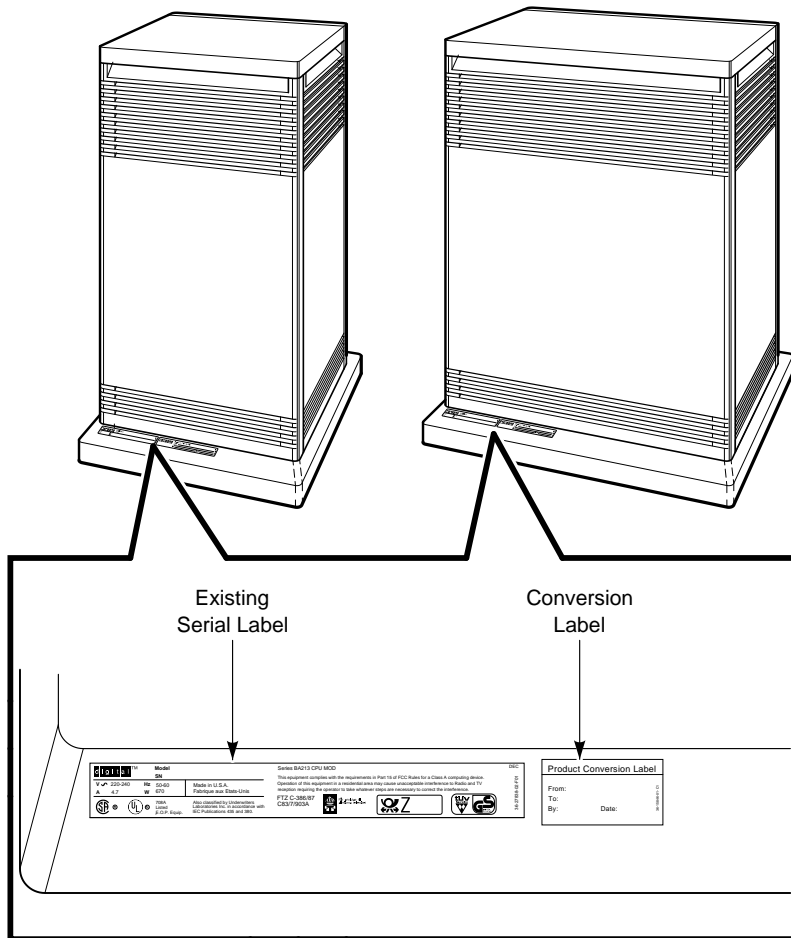
LJ-00573-TI0

Figure 1–5   Conversion and Serial Label Location

MicroVAX 3400

This equipment complies with the requirements In Part 15 of FCC
Rules for a Class A computing device. Operation of this equipment In
a residential area may cause unacceptable Interference to radio and
TV reception requiring the operator to take whatever steps are
necessary to correct the Interference.

SP   36-27354-20-D01

d|i|g|i|t|a|l ™

Series BA213
CPU MOD KA655

C83/7/903A

708A
Listed
E.D.P. Equip.

Also Classified by Underwriters
Laboratories Inc. in accordance
with IEC Publications 435
and 380.

FTZ C-386/87

tüv
BAYERN

36-27354-20-D01

Existing
Logo/Model
Label

Product Conversion Label

From:
To:
By: Date:

Conversion
Label

LJ-00531-TI0

Figure 1–6   Label Locations on System Without Panels

18. Remove the old medallion, using a flat-blade screwdriver to lift it off
    the front panel.

19. Attach the new medallion as shown in Figure 1–7.

VAXserver 4000-200

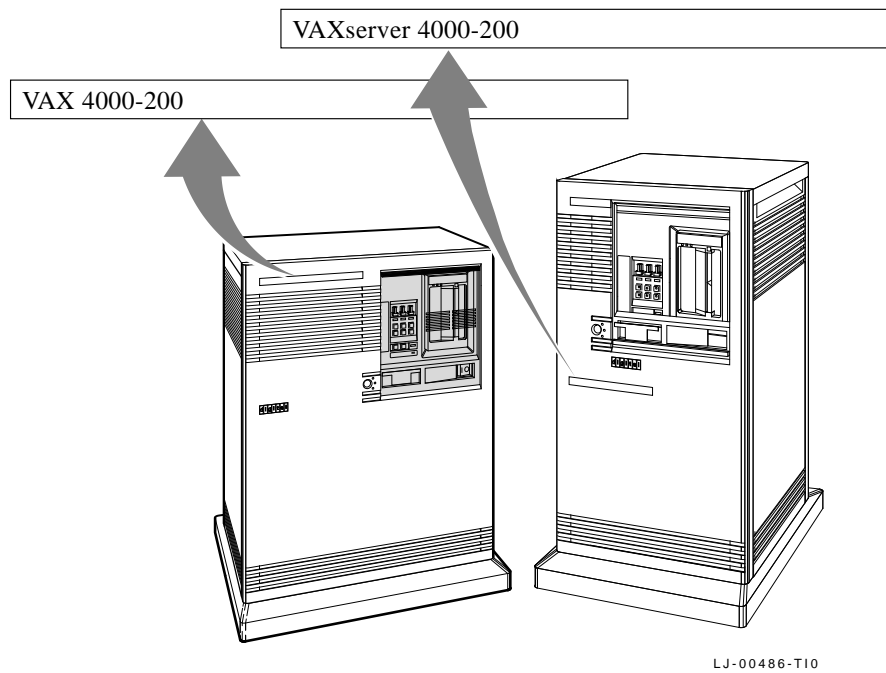VAX 4000-200

LJ-00486-TI0

Figure 1–7   Medallion Location

20. Have the customer reinstall the system backup data.

21. Fill out the forms in Appendix A.

A

Module Return Procedure and Forms

Return of the old CPU modules to Digital is required. Customer Services personnel must ensure that the instructions to repackage and return the old CPU module to Digital are followed. The instructions apply only to U.S. area installations.

For installations outside the U.S. area, contact the local Digital office for return destination instructions.

A.1 Return Procedure

The conversion agreement with Digital is not complete untl you take the following steps.

1. Obtain the serial number of the system being upgraded. (Customer Administrative Services (CAS) cannot process the order without this serial number.)

2. Ensure that the serial number is on the Purchase Order.

3. Issue a hardcopy quotation to the customer, referencing the serial number, and state the following:

   "Return of the replaced modules to Digital is a condition of sale for this upgrade. Failure to return the modules will result in a penalty charge. Installation of hardware by Digital Customer Services personnel is required."

4. Pack the old modules using the packaging material set aside from the carton of the conversion kit (quad-height module box).

   Pack the modules first in the nickel-plated bag, then in the pink plastic wrapping, and finally in the box.

5. Complete the Customer Services Worksheet in Section A.2. It documents the work you performed.

   Return the worksheet to your contract administrator at the branch office.

6. Contact your local Digital Customer Administrative Services (CAS) office to obtain information for the Installation Receipt and the Return Material Checklist in Section A.2. Section A.3 lists the CAS district offices and their phone numbers.

   Ask the CAS representative for a return authorization (RA) number. CAS will contact the customer to arrange for carrier pickup and return of the module to Digital.

7. Complete both copies of the Installation Receipt.

   The Installation Receipt–Customer Copy is the customer's receipt. It shows that the installation was completed and that Customer Services contacted CAS.

   Return the Installation Receipt–Customer Services Copy to Customer Services along with the old modules to ensure that the customer does not incur a penalty charge.

8. Complete the Return Material Checklist.

   Return the checklist with the old modules.

9. Place the self-adhesive mailing label on the module box you are returning.

   Write the return authorization (RA) number in the space provided on the label.

10. Seal the box for shipment.

Refer questions regarding the return procedure to the local account representative.

NOTE
A nonreturn charge will be assessed to customers who do not return their old CPU modules.

A.2   Digital Forms

This section contains the:

- Customer Services Worksheet
- Installation Receipt–Customer Copy
- Installation Receipt–Customer Services Copy
- Return Material Checklist

Customer Services Worksheet

This form acts as a verification of the work performed on the system and as a check on the procedures used. Please fill out this form and return it to your Contract Administrator for updating the customer's contract.

Customer: _____

System Serial Number: _____

Old System Model Number: _____

Old CPU Module Serial Number: _____

New System Name: _____

New System Model Number: _____

New CPU Module Serial Number: _____

Installation Receipt—Customer Copy

For VAX 4000-200, and VAXserver 4000-200 system conversions.

This form acts as a customer receipt and as verification for Customer Services that the 660SU–XX conversion kit was installed.

Customer
Services:
Complete both copies of this form. Then, give a copy to the customer and a copy to the local CAS office for filing with customer documents.

Customer:
Digital will contact you within the next several days to arrange for package pickup and return. Keep this copy as your record of installation by Digital.

NOTE
Contact the local CAS office to obtain the RA (return authorization) number. See Section A.3 for the closest CAS office. You should have the Digital order number available. Be sure to note the name of the person you speak with.

Name of CAS representative:

Branch Office: , will arrange for package pickup and return.

Return Authorization (RA) Number:

Digital Order Number:

Old CPU Module Serial Number:

Converted to:

New CPU Module Serial Number:

Installation was performed on this date:

Module Packed for Return:

Customer Name: Phone Number:

Customer Signature:

Customer Services Representative Signature:

Installation Receipt—Customer Services Copy

For VAX 4000-200, and VAXserver 4000-200 system conversions.

This form acts as a customer receipt and as verification for Customer
Services that the 660SU–XX conversion kit was installed.

Customer
Services:

Complete both copies of this form. Then, give a copy to the
customer and a copy to the local CAS office for filing with
customer documents.

Customer:

Digital will contact you within the next several days to arrange
for package pickup and return. Keep this copy as your record of
installation by Digital.

NOTE
**Contact the local CAS office to obtain the RA (return
authorization) number. See Section A.3 for the closest CAS office.
You should have the Digital order number available. Be sure to
note the name of the person you speak with.**

Name of CAS representative:

Branch Office: , will arrange for package
pickup and return.

Return Authorization (RA) Number:

Digital Order Number:

Old CPU Module Serial Number:

Converted to:

New CPU Module Serial Number:

Installation was performed on this date:

Module Packed for Return:

Customer Name: Phone Number:

Customer Signature:

Customer Services Representative Signature:

Return Material Checklist

For VAX 4000-200, VAXserver 4000-200, and VAX 4000-300 system conversions.

This form must be filled out and returned with the old modules to ensure that the customer does not incur a penalty charge.

Return Authorization (RA) Number: _____

Digital Order Number: _____

Customer Name: _____

Customer Address: _____

_____

_____

Customer Contact: _____

********* Include this form with your module return*********

A.3 Customer Administrative Services (CAS) District Offices

Name, Location	Phone Number
Allegheny District, Pittsburgh	(412) 244–7410
Carolinas District, Columbia	(803) 798–6477
Chicago District, Chicago	(312) 806–2478
Connecticut District, Meriden	(203) 634–5325
CSS District, Nashua	(603) 884–6549
DECdirect District, Nashua	(603) 884–9115
Florida District, Tampa	(813) 882–6822
Greater Boston District, Waltham	(617) 895–5455
Great Lakes District, Detroit	(313) 344–2285
Los Angeles District, Culver City	(213) 417–4232
Midsouth District, Memphis	(901) 761–6712
New England District, Bedford	(603) 472–6061
New Jersey Commercial District, Piscataway	(201) 562–4728
New Jersey Financial District, New York	(212) 714–2648
New York Financial District, New York	(212) 714–2648
New York Suburban District, Tarrytown	(914) 524–5284
North Central District, Minneapolis	(612) 851–2225
North Texas/Oklahoma District, Dallas	(214) 404–6135
Northwest District, Bellevue	(206) 462–2540
Ohio Valley District, Cincinnati	(513) 984–7739
Philadelphia District, Blue Bell	(215) 834–4115
Rocky Mountain District, Englewood	(303) 649–3073
Santa Clara District, Santa Clara	(408) 496–4274
Southeast District, Atlanta	(404) 257–2282
Southern California District, Costa Mesa	(714) 850–7606
South Texas District, Houston	(713) 953–3918

Name, Location	Phone Number
Southwest District, Tempe	(602) 894–4747
Upstate New York District, Rochester	(716) 385–7152
U.S. Distribution/Sales District, Marlboro	(508) 480–4259
Virginia District, Landover	(301) 306–2566
Washington DC District, Landover	(301) 459–2890
Washington DC District, FDA Landover	(301) 459–2292