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VAXserver/MicroVAX 3000-series System Conversion Guide

Order Number EK-V3000-IN-002

**digital equipment corporation
maynard, massachusetts**

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S1360

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Preface

This document tells you how to install the 640XR and 655XR conversion kits in VAXserver/MicroVAX 3000-series systems. It also gives you the model numbers before and after the systems are converted.

Intended Audience

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

Organization

This document contains four chapters and two appendixes:

Chapter 1 gives you an overview of the conversion process.

Chapter 2 tells you how to install kit 640XR to convert VAXserver 3300/3400 server systems to MicroVAX 3300/3400 timesharing systems.

Chapter 3 tells you how to install kit 655XR to convert VAXserver/MicroVAX 3300/3400 systems to VAXserver/MicroVAX 3800 systems.

Chapter 4 tells you how to install kit 655XR to convert VAXserver/MicroVAX 3500/3600 pedestal and cabinet systems to VAXserver/MicroVAX 3800/3900 systems.

Appendix A contains forms for the return of customer modules and a list of the CAS district offices.

Appendix B lists the model numbers before and after the systems are converted.

Warnings, Cautions, and Notes

Warnings, cautions, and notes in this document have the following meanings.

WARNING provides information to prevent personal injury.

CAUTION provides information to prevent damage to equipment or software.

NOTE provides general information about the current topic.

Chapter 1

Overview

This document tells you how to install three conversion kits:

- The 640XR kit converts a VAXserver 3300/3400 server system to a MicroVAX 3300/3400 timesharing system.
- The 655XR kit converts a VAXserver/MicroVAX 3300/3400 system to a VAXserver/MicroVAX 3800 system.
- Another 655XR kit converts a VAXserver/MicroVAX 3500/3600 pedestal or cabinet system to a VAXserver/MicroVAX 3800/3900 system.

Section 1.1 lists the conversion kit numbers and the systems they change.

1.1 Kit Part Numbers and Systems

In the following lists, ULT stands for ULTRIX-32 and ADL stands for application deployment license.

Before Conversion	Kit Number	After Conversion
VAXserver 3300/3400 Systems — Kit 640XR		
VAXserver 3300/3400 VMS	640XR-AC	MicroVAX 3300/3400 VMS
VAXserver 3300/3400 ULT	640XR-AE	MicroVAX 3300/3400 ULT
VAXserver/MicroVAX 3300/3400 Systems — Kit 655XR		
MicroVAX 3300/3400 VMS	655XR-CA	MicroVAX 3800 VMS
MicroVAX 3300/3400 ULT	655XR-CC	MicroVAX 3800 ULT
MicroVAX 3300/3400 VMS-ADL	655XR-CE	MicroVAX 3800 VMS-ADL
VAXserver 3300/3400 VMS	655XR-CB	MicroVAX 3800 VMS
VAXserver 3300/3400 ULT	655XR-CD	MicroVAX 3800 ULT
VAXserver 3300/3400 VMS	655XR-DA	VAXserver 3800 VMS
VAXserver 3300/3400 ULT	655XR-DC	VAXserver 3800 ULT

Before Conversion	Kit Number	After Conversion
VAXserver/MicroVAX 3500/3600/3800/3900 Systems — Kit 655XR		
MicroVAX 3500/3600 VMS/ULT	655XR-AA	MicroVAX 3800/3900 VMS/ULT
VAXserver 3500/3600 VMS	655XR-AB	MicroVAX 3800/3900 VMS
VAXserver 3800/3900 VMS	655XR-AC	MicroVAX 3800/3900 VMS
VAXserver 3500/3600 ULT	655XR-AD	MicroVAX 3800/3900 ULT
VAXserver 3800/3900 ULT	655XR-AE	MicroVAX 3800/3900 ULT
VAXserver 3500/3600 VMS/ULT	655XR-BA	VAXserver 3800/3900 VMS/ULT

Chapter 2 contains the installation procedure for the 640XR kit. Chapters 3 and 4 contain the installation procedures for the 655XR kits.

1.2 Customer Responsibilities

You, the customer, should not install a conversion kit, unless you are a licensed self-maintenance customer. Only qualified maintenance personnel should perform the installation procedure. You can call Digital Customer Services to schedule a system conversion.

It is your responsibility to perform a software backup before Digital Customer Services arrives at your site.

When the conversion is complete, you can return the old CPU module (and any memory modules that were replaced) to Digital for credit. Appendix A contains forms for you and Digital Customer Services to sign. The Customer Services representative will complete the forms and give them to you to sign.

1.3 Digital Customer Services Responsibilities

To save time, you, the Customer Services representative, should contact the customer and make arrangements to have the customer's software backed up before Customer Services arrives at the conversion site.

NOTE: *Before installing the conversion kit, make sure the system has:*

- *The correct memory variation (for example, MS650-BA for 3500/3600 systems)*
- *Operating system software at or above the minimum version: VMS V5.1 or ULTRIX-32 V3.0*

Software installation, conversion and testing are not described in the hardware conversion procedure, but such tasks are part of the overall system conversion. A kit that converts a VAXserver VMS system to a timesharing system includes the *VMS Software Installation Manual*.

The customer should contact a Digital sales representative to transfer an existing software product services contract to the MicroVAX/VAXserver systems group.

1.4 Important Forms

After you install the conversion kit, complete the following forms (see Appendix A) and then remove them from this document by tearing them along the perforated lines.

- Customer Services Worksheet
- Installation Receipt, both copies
- Return Material Checklist

Give the customer the signed Installation Receipt—Customer Copy. Include the signed Customer Services Copy with the CPU module (and any memory modules) you return to Digital to ensure that the customer receives credit.

Self-adhesive mailing labels are supplied on the last page of this document. Peel off those labels and attach them to the packages containing the old modules.

1.5 Related Documents

The following table lists additional information sources.

Title	Order Number
BA213 Enclosure Maintenance	EK-189AA-MG
BA215 Enclosure Maintenance	EK-191AA-MG
H9644 Cabinet Maintenance	EK-221AA-MG
KA640 CPU System Maintenance	EK-179AA-MG
KA650 CPU System Maintenance	EK-180AA-MG
KA655 CPU System Maintenance	EK-306AA-MG
KFQ Storage Adapter Installation and User Manual	EK-KFQSA-IN

The last character in the 5-character part of the order number (the revision character) could be different. For example, EK-189AA-MG could be EK-189AB-MG.

CHAPTER 2

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Chapter 2

VAXserver 3300/3400 Conversion to MicroVAX 3300/3400 System

This chapter tells you how to install the 640XR kit, which converts a VAXserver 3300/3400 server system to a MicroVAX 3300/3400 timesharing system.

The following table shows what a VAXserver 3300/3400 system becomes after the kit is installed. ULT stands for ULTRIX-32.

Before Conversion	Kit Number	After Conversion
VAXserver 3300/3400 VMS	640XR-AC	MicroVAX 3300/3400 VMS
VAXserver 3300/3400 ULT	640XR-AE	MicroVAX 3300/3400 ULT

The tasks required to convert a VAXserver 3300/3400 system are summarized below. To perform these tasks, begin with Section 2.1.

1. Have the customer back up the software.
2. Run the diagnostics to verify system operation.
3. Unpack and inventory the conversion kit.
4. Remove the front panel and CPU I/O panel, disconnect the CPU cables, and remove the old CPU module.
5. Install the new KA640-AA (M7624) CPU module.
6. Connect all cables, reinstall the CPU I/O panel, install the new medallion and labels, and replace the front panel.
7. Run the diagnostics to verify system operation.
8. Have the customer verify that the system loads and functions correctly.
9. Complete the forms in Appendix A.

2.1 Unpacking the Kit

1. Look for 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 to see if all the parts were received.

CAUTION: *Modules can be damaged by static discharge. When handling them, use the antistatic wrist strap and the antistatic mat in the antistatic kit. That kit is part of the Customer Services toolkit.*

Kit Contents

Part Number	Description
KA640-AA (M7624)	CPU module
36-15946-03	BA213 from/to conversion label
36-15946-05	BA215 from/to conversion label
74-34425-16	MicroVAX 3400 medallion
74-36884-01	MicroVAX 3300 medallion
EK-V3000-IN	VAXserver/MicroVAX conversion guide (this document)
640XR-AC/AE	VMS/ULTRIX-32 license (see the following two tables)

VMS Licenses

VMS Number	Description
QL-001AS-BL	VMS 1-10
QL-D04AS-AA	DECnet-E/N
QL-VBRAS-AA	VAXcluster

ULTRIX-32 Licenses

ULTRIX-32 Number	Description
QL-VEYAS-BC	ULTRIX-32 2-user base license
QL-VEYAS-BG	ULTRIX-32 user upgrade
QL-716AJ-AA	DECnet-ULTRIX
QL-VEYA3-H5	32-user H-kit

3. After unpacking and unwrapping the CPU module, place it on the grounded antistatic mat.
4. Save the packing material to return old modules to Digital.
5. If any item is missing or damaged:
 - Contact the customer's sales representative.
 - Contact the customer's delivery agent.

2.2 Before Installing the Kit

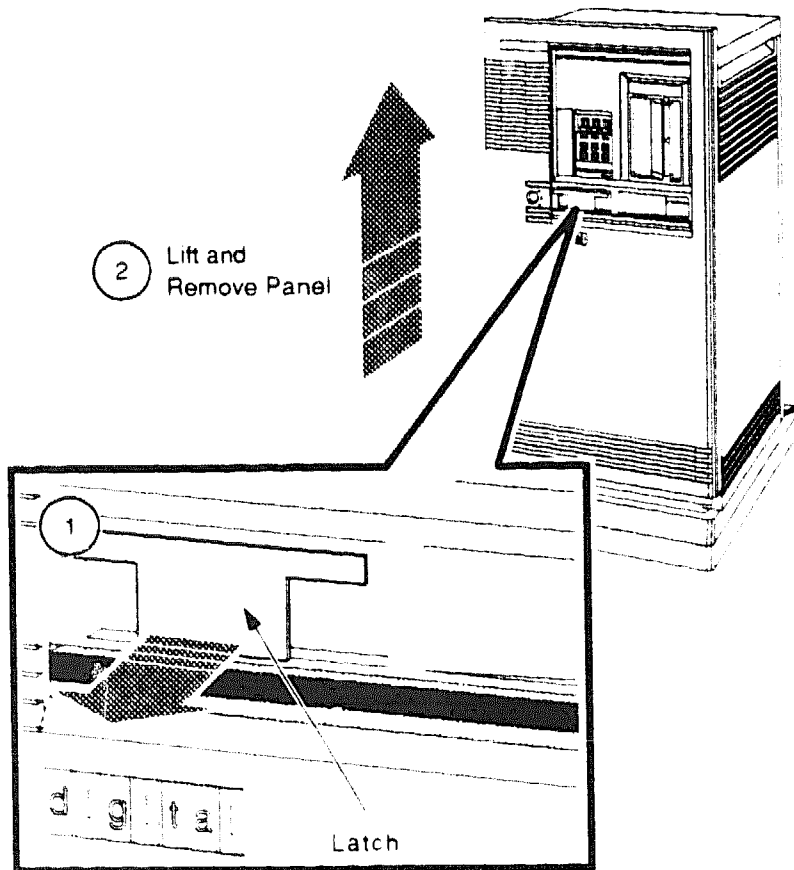
1. Have the customer back up the system disk (usually before Customer Services arrives). The system disk is the customer's responsibility.
2. Power up the system and run diagnostics to verify system operation.
3. Shut down the system before installing the kit.

2.3 Kit Installation Procedure

After the kit contents are checked against the shipping invoice and all parts are satisfactory, follow this procedure.

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

Figure 2-1: Removing Front Panel

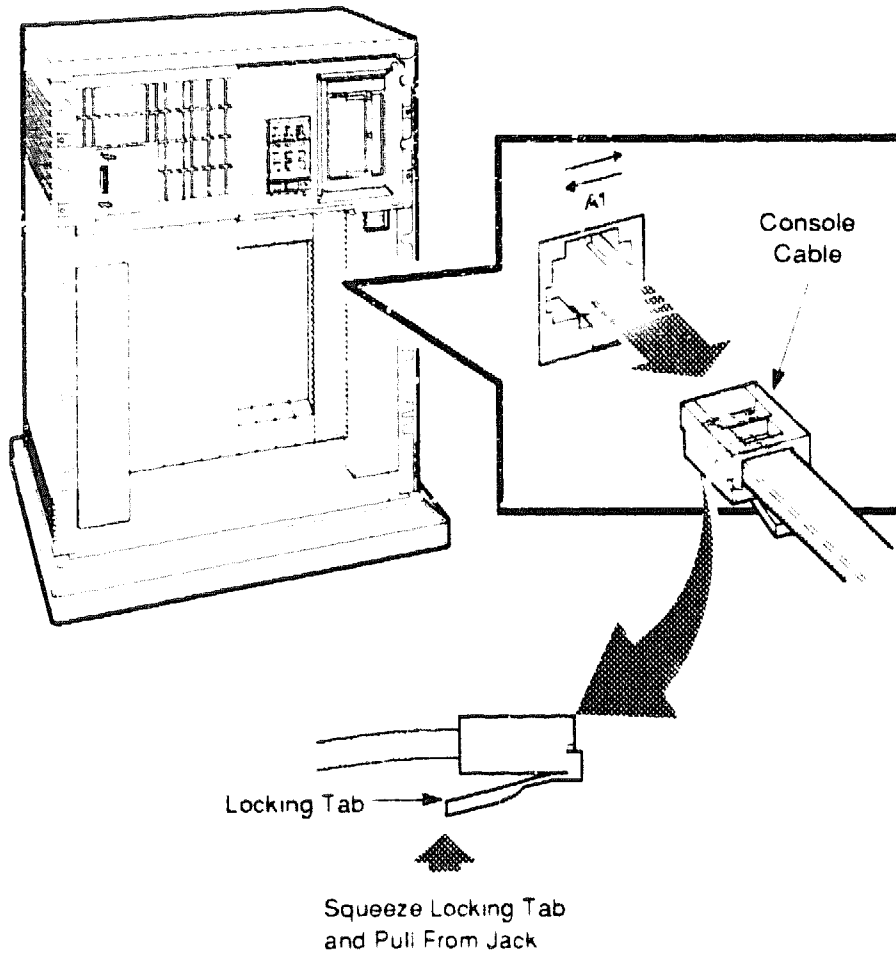


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2. Remove the console cable as shown in Figure 2-2.

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

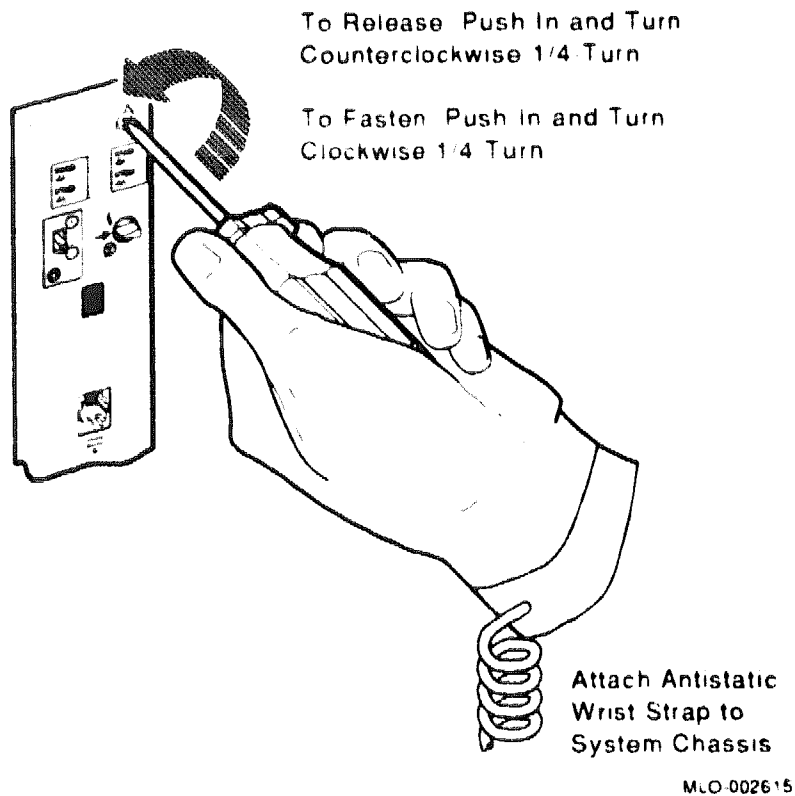
Figure 2-2: Removing Console Cable



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3. Remove the CPU I/O panel as shown in Figure 2-3.

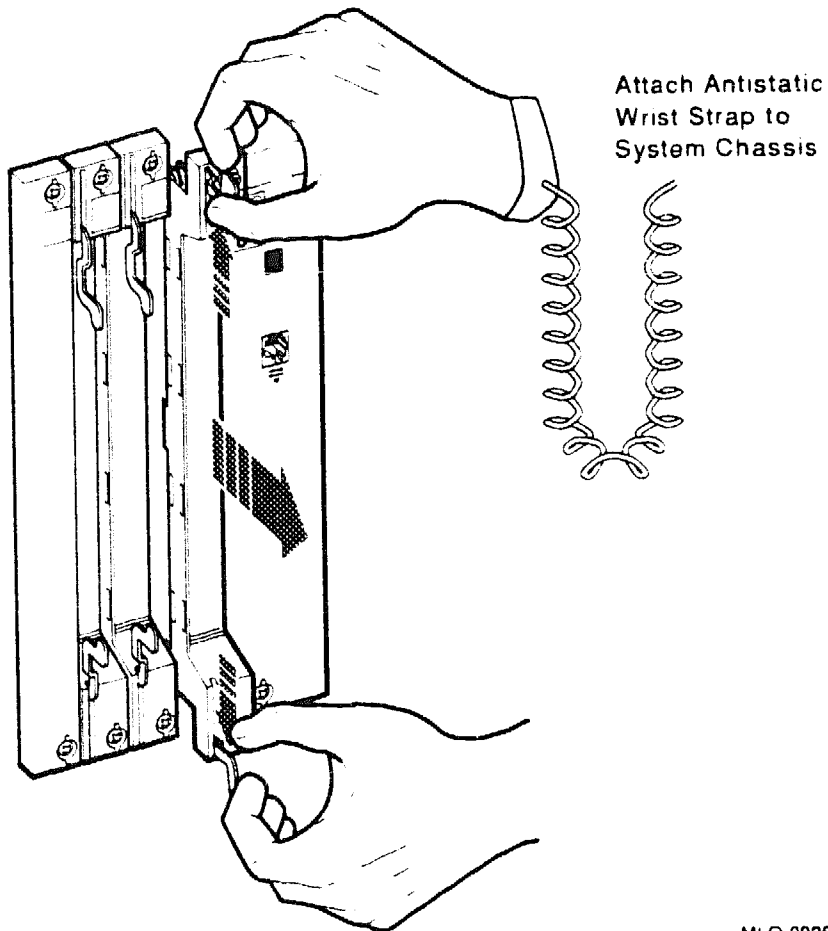
Figure 2-3: Removing CPU I/O Panel



4. Disconnect the CPU cables.

5. Remove the old CPU module as shown in Figure 2-4.

Figure 2-4: Removing Module

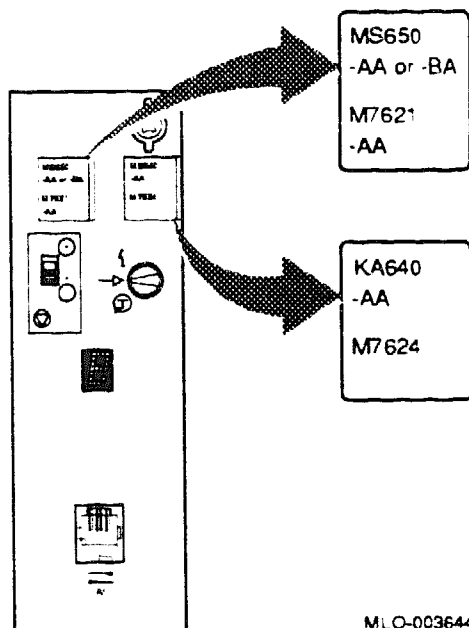


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6. Install the new KA640-AA (M7624) CPU module in slot 1.
7. Reconnect the CPU cables.
8. Reattach the CPU I/O panel.

9. Attach the new CPU labels to the CPU I/O panel as shown in Figure 2-5.

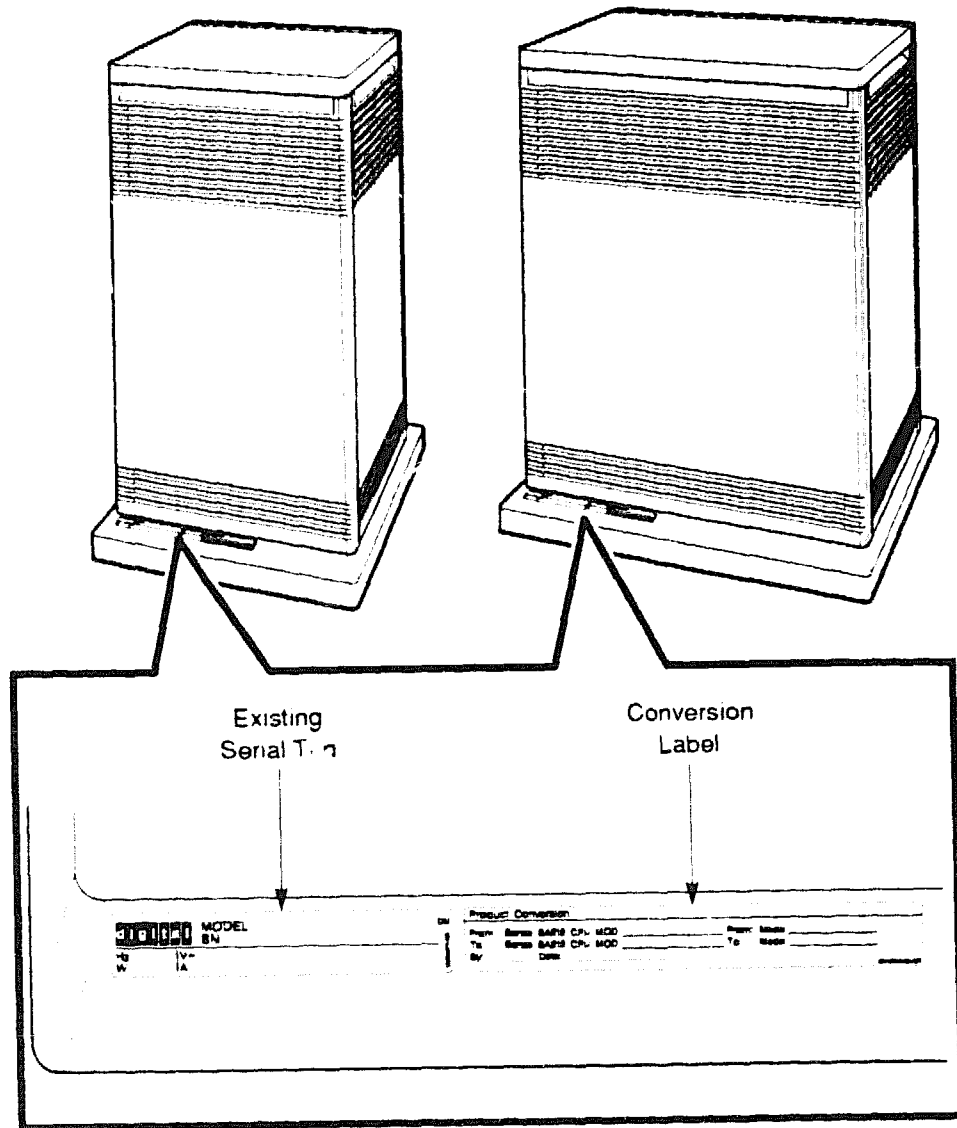
Figure 2-5: Attaching CPU Labels



10. Replace the front panel.
11. Power up the system and run the system diagnostics to verify system operation.

12. Attach the conversion label as shown in Figure 2-6.

Figure 2-6: Conversion Label Location

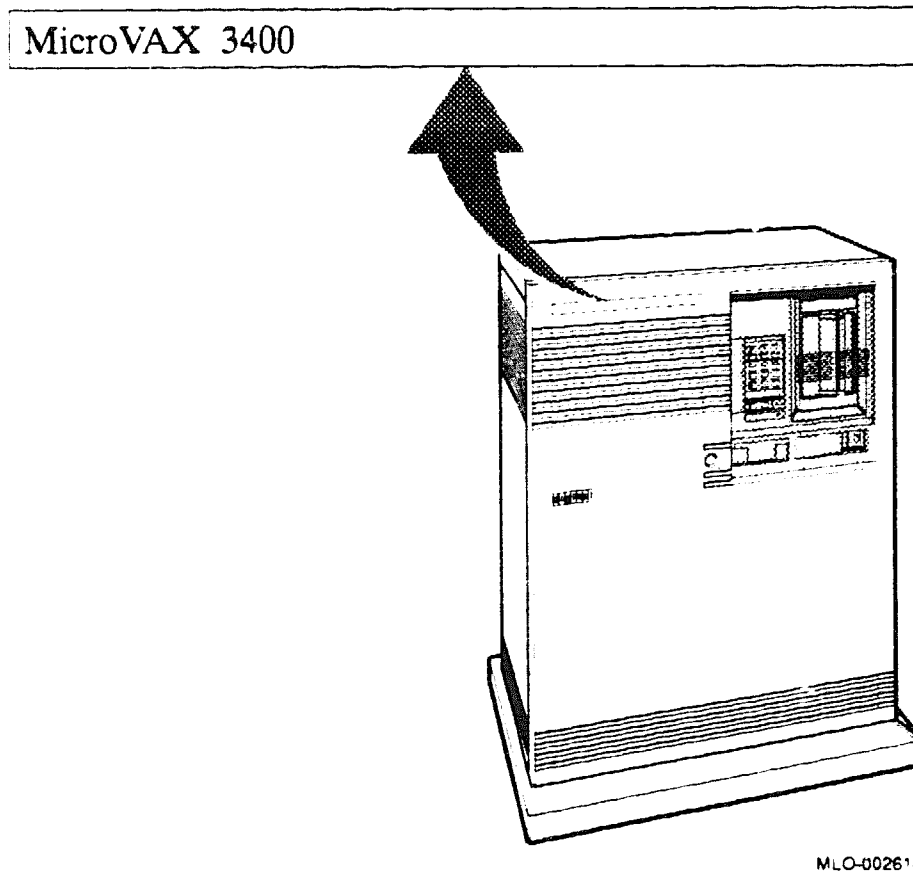


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13. Remove the old medallion, using a flat-blade screwdriver to lift it off the front panel.

14. Attach the new medallion as shown in Figure 2-7.

Figure 2-7: Medallion Location



15. Have the customer reinstall the system software.

16. Fill out the forms in Appendix A.

Chapter 3

VAXserver/MicroVAX 3300/3400

Conversion to VAXserver/MicroVAX 3800 System

This chapter tells you how to install the 655XR kit, which converts a VAXserver/MicroVAX 3300/3400 system to a VAXserver/MicroVAX 3800 system.

You will need the *KFQ Storage Adapter Installation and User Manual* for installing the KFQSA module in a VAXserver/MicroVAX 3400 system and for configuring the KFQSA module and the system.

CAUTION: *Memory modules MS650-AA will not function with a KA655-AA CPU module. When a KA640 CPU is removed and the system is converted to a KA655-AA (M7625-AA) CPU:*

- *The MS650-AA (8-Mbyte) memories must be changed to an MS650-BA (16-Mbyte) memory.*
- *The H3602 CPU I/O panel must be changed to an H3600 Rev B (or later) panel.*

The following table shows what a VAXserver/MicroVAX 3300/3400 system becomes after the kit is installed. ULT stands for ULTRIX-32 and ADL stands for application deployment license.

Before Conversion	Kit Number	After Conversion
MicroVAX 3300/3400 VMS	655XR-CA	MicroVAX 3800 VMS
MicroVAX 3300/3400 ULT	655XR-CC	MicroVAX 3800 ULT
MicroVAX 3300/3400 VMS-ADL	655XR-CE	MicroVAX 3800 VMS-ADL
VAXserver 3300/3400 VMS	655XR-CB	MicroVAX 3800 VMS
VAXserver 3300/3400 ULT	655XR-CD	MicroVAX 3800 ULT

Before Conversion	Kit Number	After Conversion
VAXserver 3300/3400 VMS	655XR-DA	VAXserver 3800 VMS
VAXserver 3300/3400 ULT	655XR-DC	VAXserver 3800 ULT

The tasks required to convert a VAXserver/MicroVAX 3300/3400 system are summarized below. To perform these tasks, begin with Section 3.1.

1. Have the customer back up the software.
2. Run the diagnostics to verify system operation.
3. Unpack and inventory the conversion kit.
4. Remove the front panel and media faceplate. Then remove the operator control panel (OCP), tape drive, and integrated storage element (ISE) on the right, next to the tape drive compartment.
5. Remove the CPU I/O panel, remove the module covers from the memory slots, disconnect the CPU-memory cable, and remove the old CPU module.
6. Install the new KA655-AA (M7625-AA) CPU module.
7. Remove any MS650-AA (M7621-AA) memory modules, and replace them with MS650-BA (M7622-AA) memory modules.
8. Install the KFQSA and DESQA modules.
9. Connect all cables.
10. Install the new H3600 CPU I/O panel and connect the CPU I/O panel cable.
11. Reinstall the module covers, module cover labels, ISE, tape drive, OCP, media faceplate, and front panel.
12. Configure the KFQSA module.
13. Run the diagnostics to verify system operation.
14. Install the new labels and medallion.
15. Have the customer verify that the system loads and functions correctly.
16. Complete the forms in Appendix A.

3.1 Unpacking the Kit

1. Look for 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 to see if all the parts were received.

CAUTION: *Modules can be damaged by static discharge. When handling them, use the antistatic wrist strap and the antistatic mat in the antistatic kit. That kit is part of the Customer Services toolkit.*

Kit Contents

Part Number	Description
M7625-AA/BA	KA655-AA/BA CPU module
70-23988-01	H3600 CPU I/O panel
36-26883-57	Module number label, M7769
36-26883-70 or 36-26883-71	Module number label, S-box, KA655-AA or Module number label, S-box, KA655-BA
36-15946-03	BA213 from/to conversion label
36-15946-05	BA215 from/to conversion label
36-25988	PTT number label
74-34425-26	MicroVAX 3800 medallion, BA213 enclosure
74-34425-27	VAXserver 3800 medallion, BA213 enclosure
74-36884-07	MicroVAX 3800 medallion, BA215 enclosure
74-36884-08	VAXserver 3800 medallion, BA215 enclosure
DESQA	Q-bus Ethernet adapter
KFQSA (M7769)	DSSI mass storage adapter
AA-MH27A-TE	VMS installation and operation manual, 3600/3400 series
EK-KFQSA-IN	KFQSA installation and user manual
EK-V3000-IN	VAXserver/MicroVAX conversion guide (this document)
ZNAJS-C5	Customer hardware information kit

ULTRIX-32 Licenses

ULTRIX-32 Number	Description
QA-VEYA4-H5	ULTRIX-32 64-user TK50 upgrade
QI-0JQA9-AA	ULTRIX-32 workstation SW server
QI-716AB-AA	DECnet-ULTRIX 32M license with warranty
QI-716AC-AA	DECnet ULTRIX-32 license with warranty
QL-VEYAB-BC	ULTRIX-32 2-user base license
QL-VEYAB-BH	ULTRIX-32 64-user upgrade license
QL-VEYAC-AA	ULTRIX-32 2-user base license

VMS Licenses

VMS Number	Description
QL-001AB-BK	VMS 1-40 user license + key TK50
QL-001AB-WK	VMS 1-40 user application deployment license
QL-001AC-BA	VMS file and application server license
QL-D05AC-AA	DECnet-VAX F/F license with warranty
QL-VBRAB-AA	VAXcluster software license with warranty
QL-VBRAC-AA	Local area VAXcluster license with warranty

3. After unpacking and unwrapping the modules, place them on the grounded antistatic mat.
4. Save the packing material to return old modules to Digital.
5. If any item is missing or damaged:
 - Contact the customer's sales representative.
 - Contact the customer's delivery agent.

3.2 Before Installing the Kit

1. Have the customer back up the system disk (usually before Customer Services arrives). The system disk is the customer's responsibility.
2. Power up the system and run the diagnostics to verify system operation.
3. Shut down the system before installing the kit.

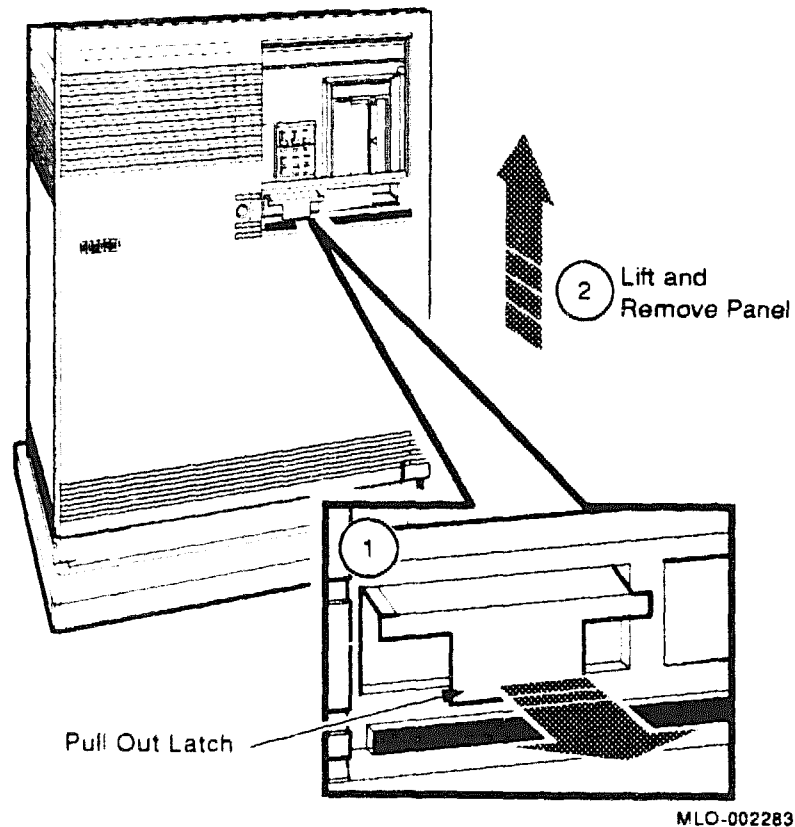
3.3 Kit Installation Procedure

After the kit contents are checked against the shipping invoice and all parts are satisfactory, follow the procedure listed below.

The VAXserver/MicroVAX 3300 system is mounted in a BA215 (6-slot) enclosure, and the VAXserver/MicroVAX 3400 system is mounted in a BA213 (12-slot) enclosure. This procedure covers both systems.

1. Remove the front panel as shown in Figure 3-1.

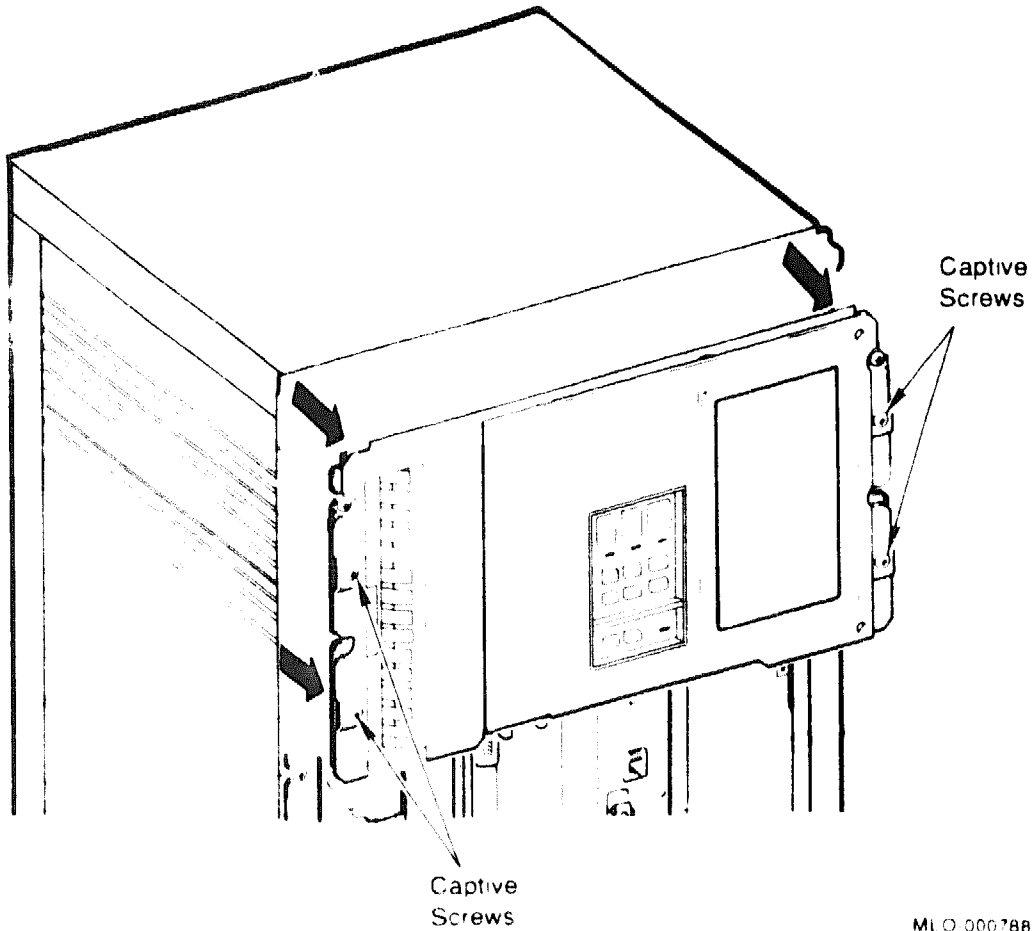
Figure 3-1: Removing Front Panel



2. If the external DSSI cable is used in the system, disconnect it from the external connector on the media faceplate.

3. Remove the media faceplate as shown in Figure 3-2.

Figure 3-2: Removing Media Faceplate



4. Remove the OCP as shown in Figures 3-3 and 3-4.

Figure 3-3: Lowering OCP

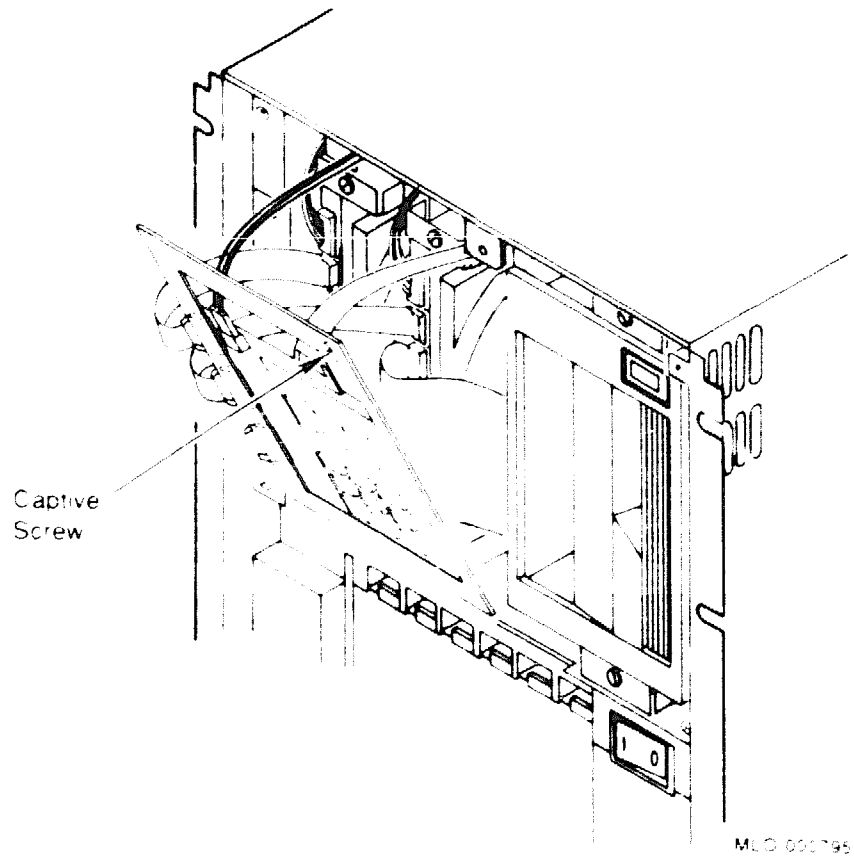
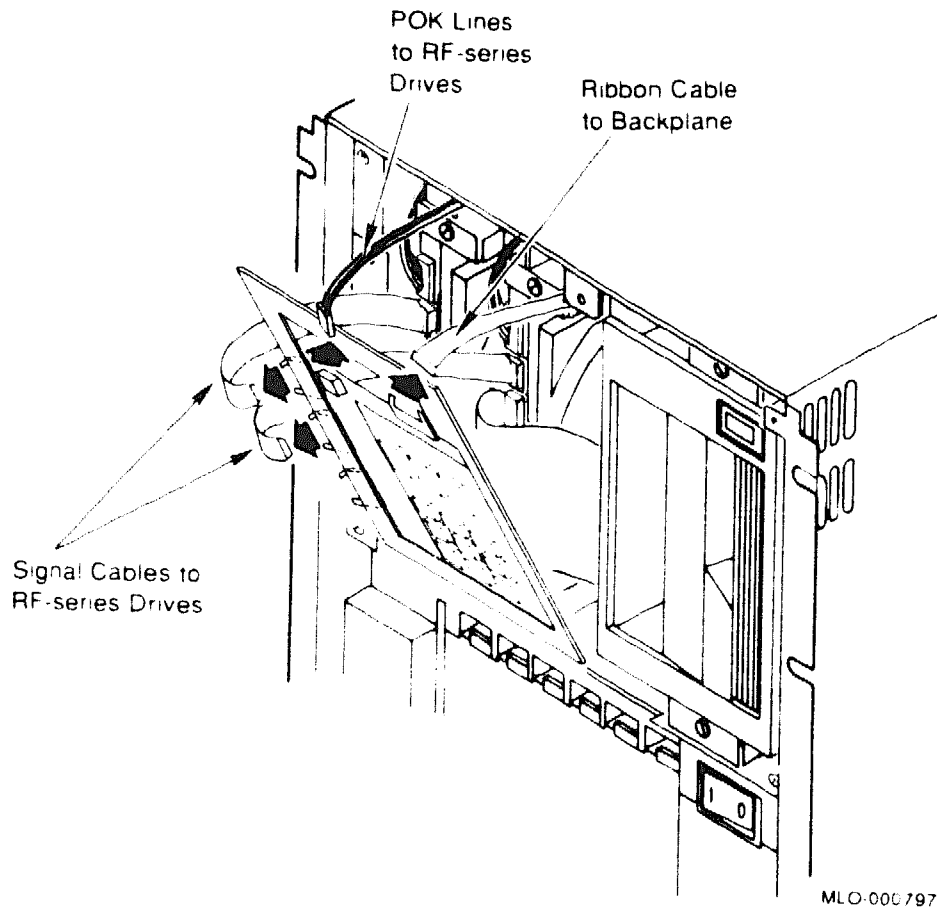


Figure 3-4: Removing OCP Cabling



5. Remove the tape drive as shown in Figures 3-5 and 3-6.

Figure 3-5: Removing Tape Drive

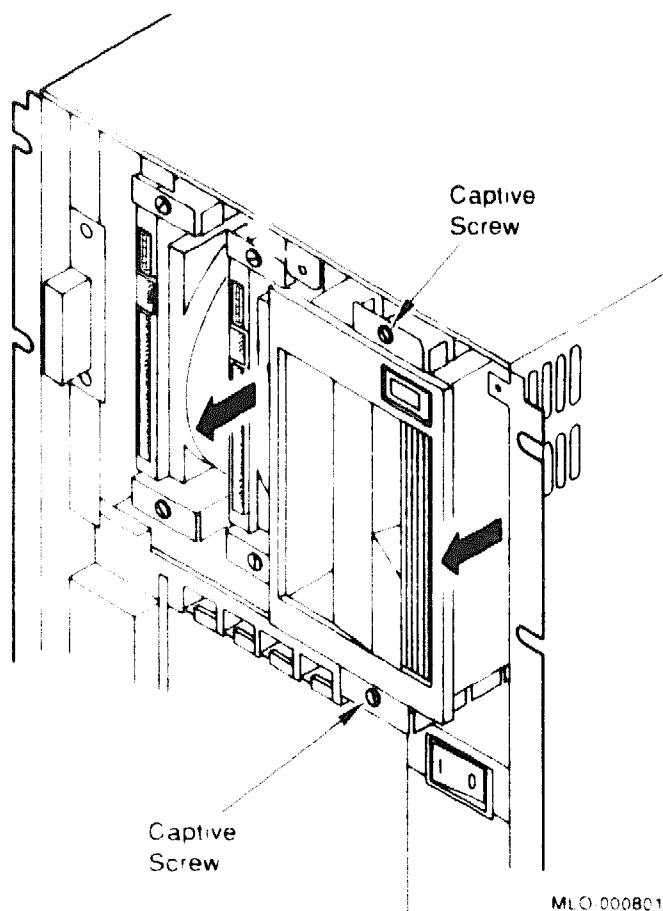
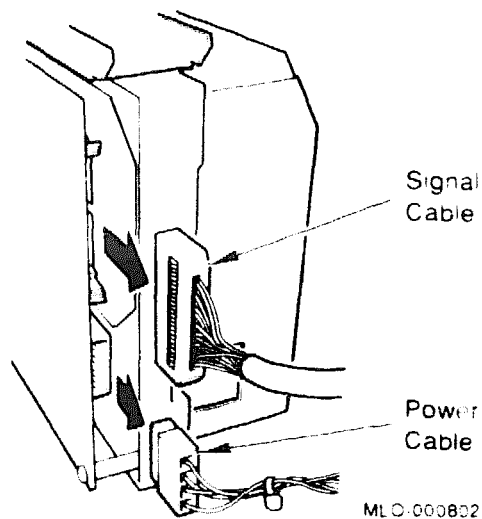


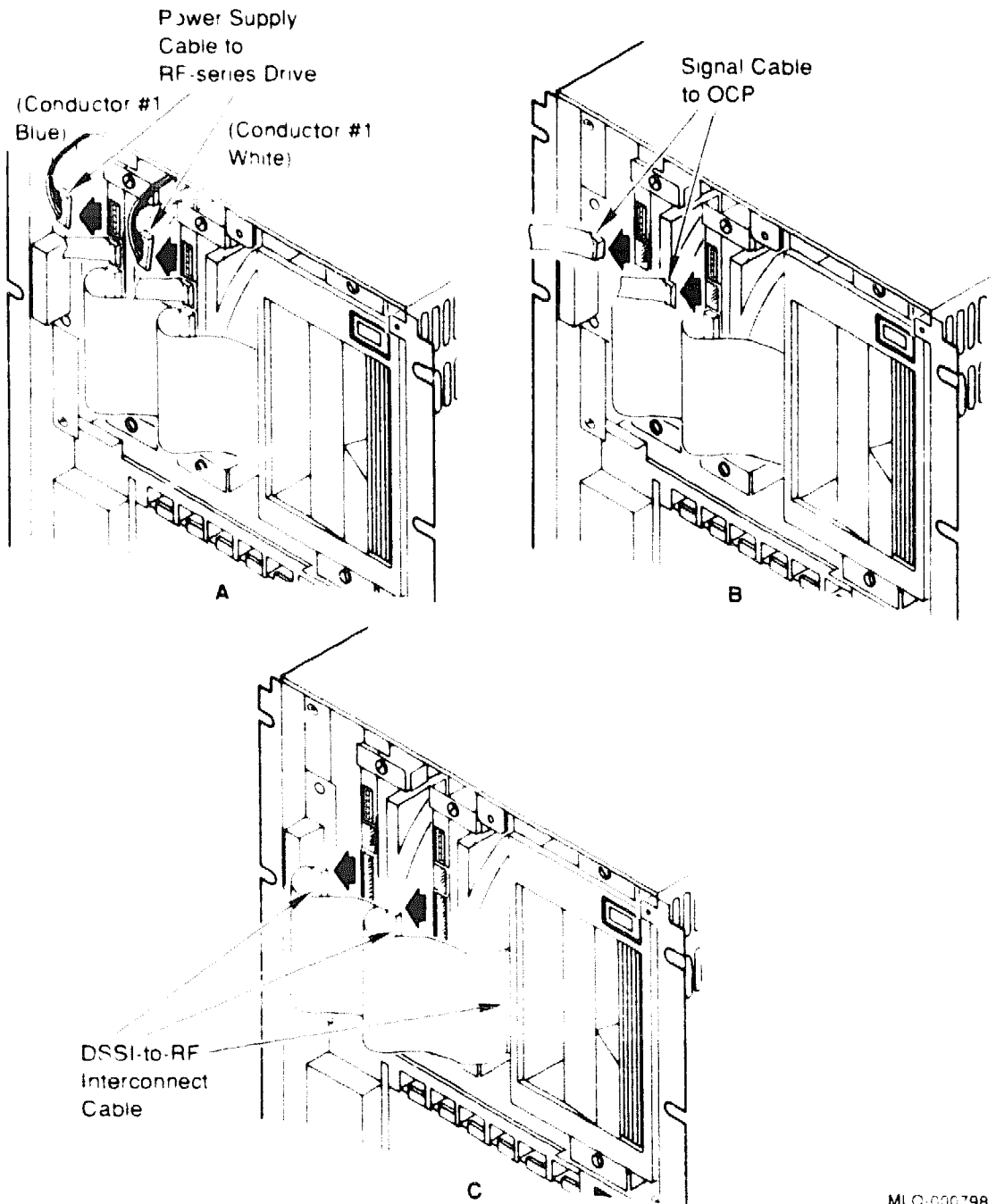
Figure 3-6: Removing Tape Drive Cabling



6. Remove the ISE on the right (next to the tape drive compartment) as shown in Figures 3-7 and 3-8.

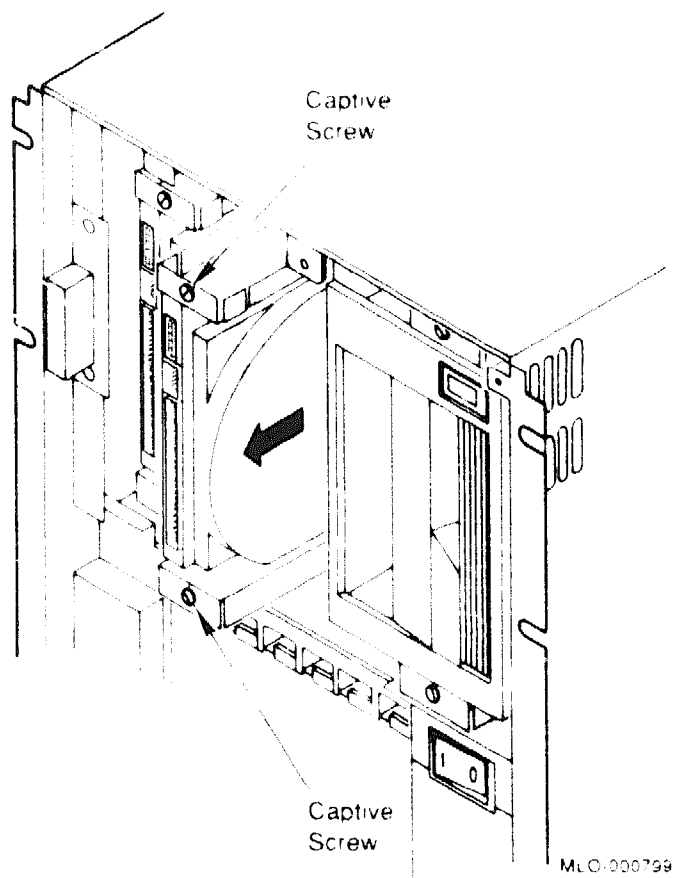
CAUTION: *Use the antistatic wrist strap and the antistatic mat when working with ISEs.*

Figure 3-7: Removing ISE Cabling



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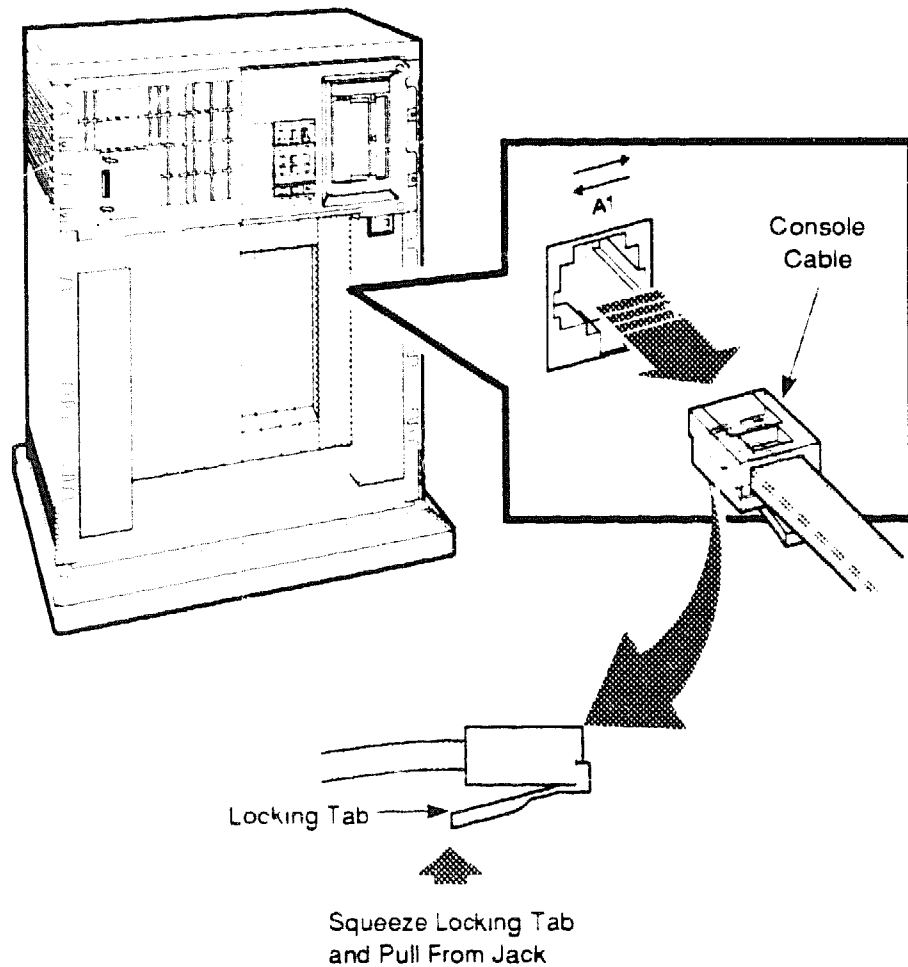
Figure 3-8: Removing ISE



7. Remove the cable connected to the CPU I/O panel as shown in Figure 3-9.

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

Figure 3-9: Removing CPU I/O Panel Cable

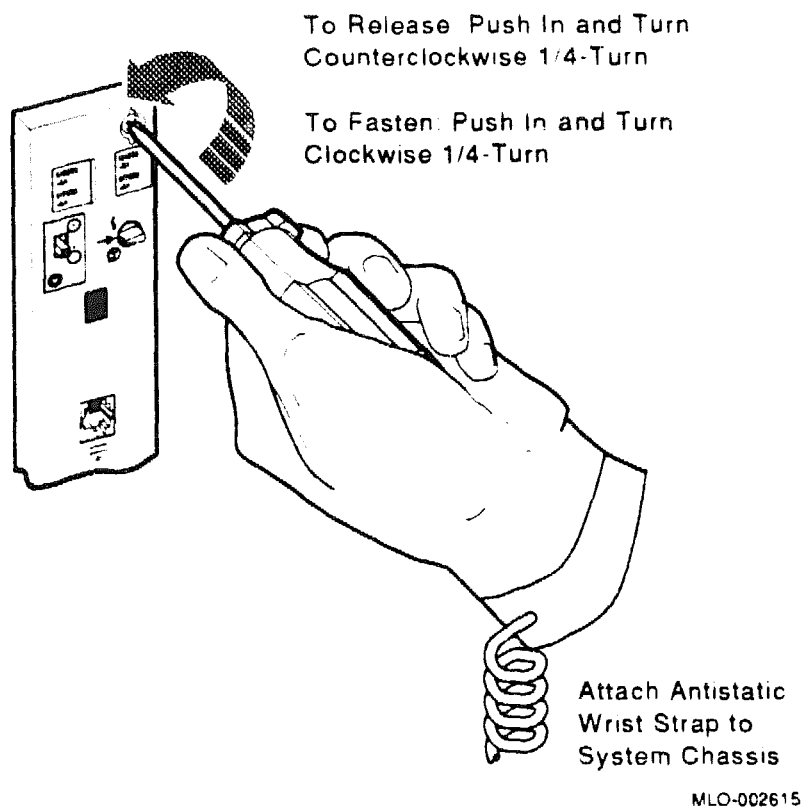


MLO-002610

8. Remove the CPU I/O panel as shown in Figure 3-10.

You can discard that panel.

Figure 3-10: Removing CPU I/O Panel



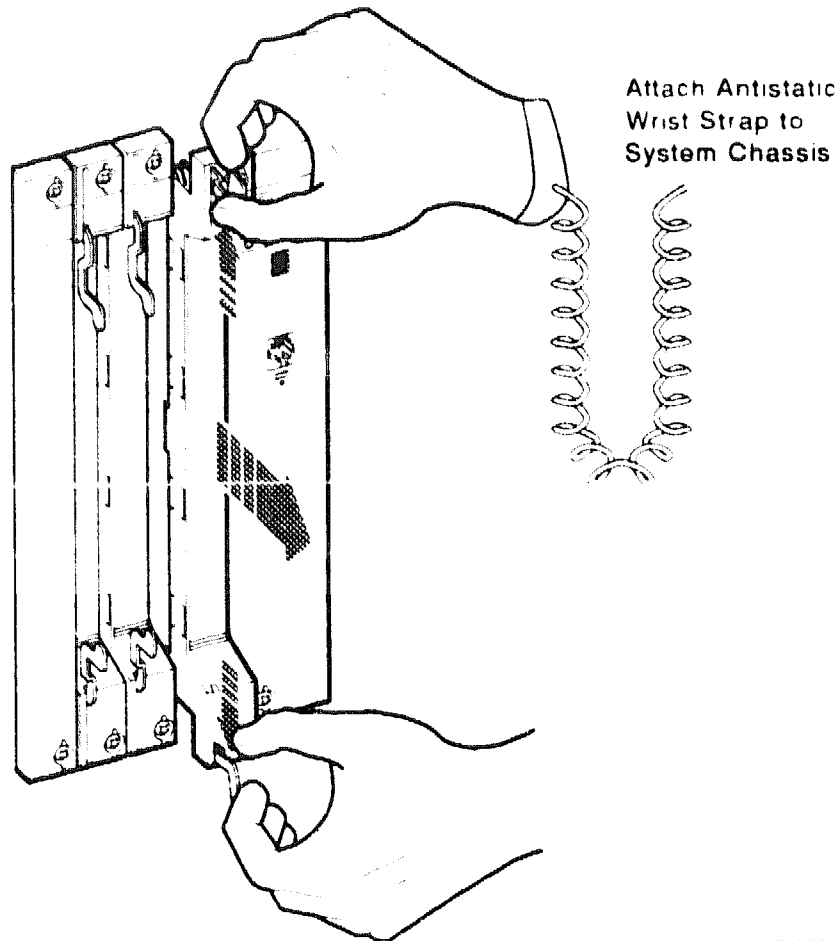
9. Remove the module covers from the memory slots.

NOTE: *If memory conversion is included as part of the CPU conversion, remove all the single-width memory module covers (70-23981-01). In step 14 you will install the MS650-BA (M7622-AA) 16-Mbyte memory module(s).*

10. Remove the 50-pin daisy-chain memory cable that connects the memory modules and the CPU module.

11. Remove the old CPU module from slot 1 as shown in Figure 3-11.

Figure 3-11: Removing Module



MLO-002611

12. Disconnect the round internal cable (17-01963-01) from the old CPU module. Then:
 - In a VAXserver/MicroVAX 3300 system, move all the cable into the empty ISE compartment.

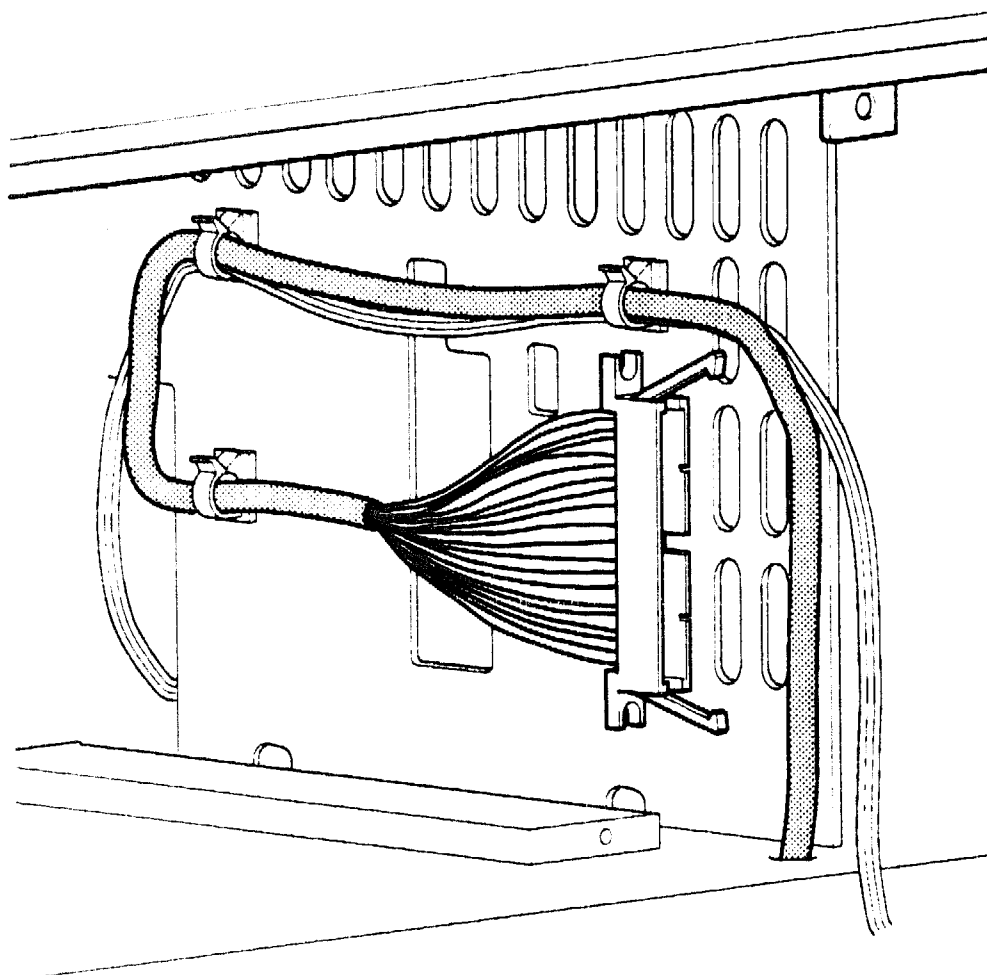
NOTE: *In a VAXserver/MicroVAX 3300 system, you have to pull the cable through the clamp at the back of the tape drive compartment. Do not disconnect the plug end of the cable from the bulkhead separating the ISE and tape drive compartments.*

- In a VAXserver/MicroVAX 3400 system, pull the cable up through the opening at the front of the shelf separating the card cage and mass storage areas.
13. Install the new KA655-AA (M7625-AA) or KA655-BA (M7625-BA) CPU module in slot 1.
 - Install the KA655-AA module in a MicroVAX system.
 - Install the KA655-BA module in a VAXserver system.
 14. Install the MS650-BA memory modules, as required.
 15. Install the appropriate memory cable, as required, from the CPU to all the memory modules.
 16. In a VAXserver/MicroVAX 3300 system, pass the socket end of the round internal cable (17-01963-01) down through the nearest opening under the empty ISE mounting bracket, as shown in Figure 3-12, and move that end into the slot 4, 5, or 6 area in the card cage. Then coil and stow the excess cable on the bulkhead separating the ISE and tape drive compartments, using the existing cable clamps, as shown in Figure 3-12.

CAUTION: *Make sure the excess cable does not touch the ISE when it is installed. Otherwise, the shock-absorbing function of the mounting bracket will be impeded.*

In a VAXserver/MicroVAX 3400 system, route the cable across and in front of the ISEs, down through the opening at the left-front of the shelf separating the card cage and mass storage areas, and then into the card cage.

Figure 3-12: Routing and Stowing Internal Cable In a VAXserver/MicroVAX 3300 System



MLO-003641

17. Check the KFQSA module switches to be sure that they select an appropriate CSR address, as described in the *KFQ Storage Adapter Installation and User Manual*.
18. Connect the socket end of the internal cable to the KFQSA module and then install the KFQSA module in the card cage (left of the tape module).
19. Install the DESQA module in the appropriate slot, as described in the installation manual supplied in the DESQA kit.

20. Install the new H3600 CPU I/O panel.

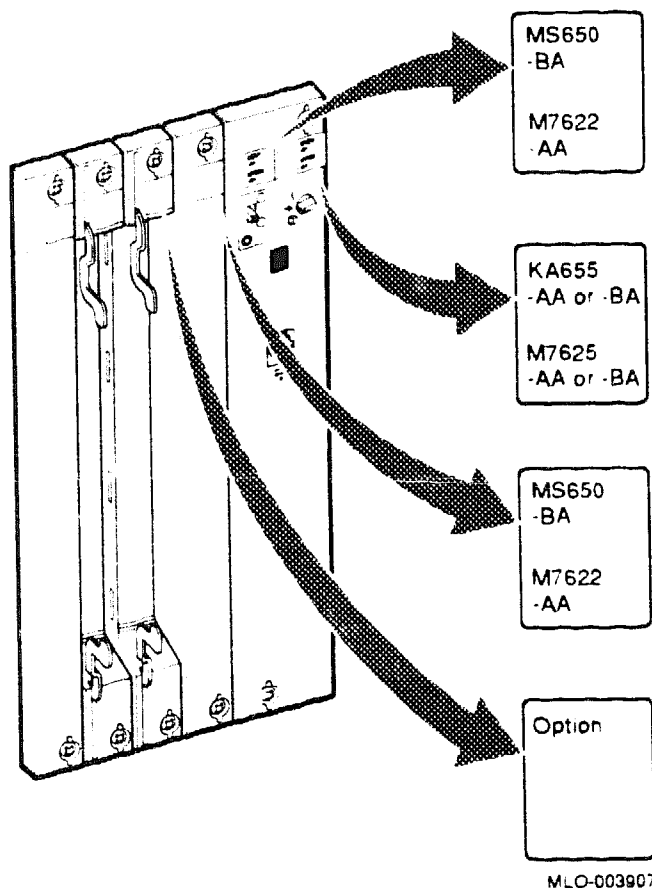
NOTE: *The new CPU module has two internal flat cables that must be connected.*

21. Reinstall all memory module covers and module cover labels.

22. Attach the CPU I/O panel cable to the H3600 CPU I/O panel.

23. Attach the new CPU module label and the new memory module label to the CPU I/O panel as shown in Figure 3-13. Then attach the remaining new memory module labels to the other memory module covers as shown in Figure 3-13.

Figure 3-13: CPU and Memory Label Locations

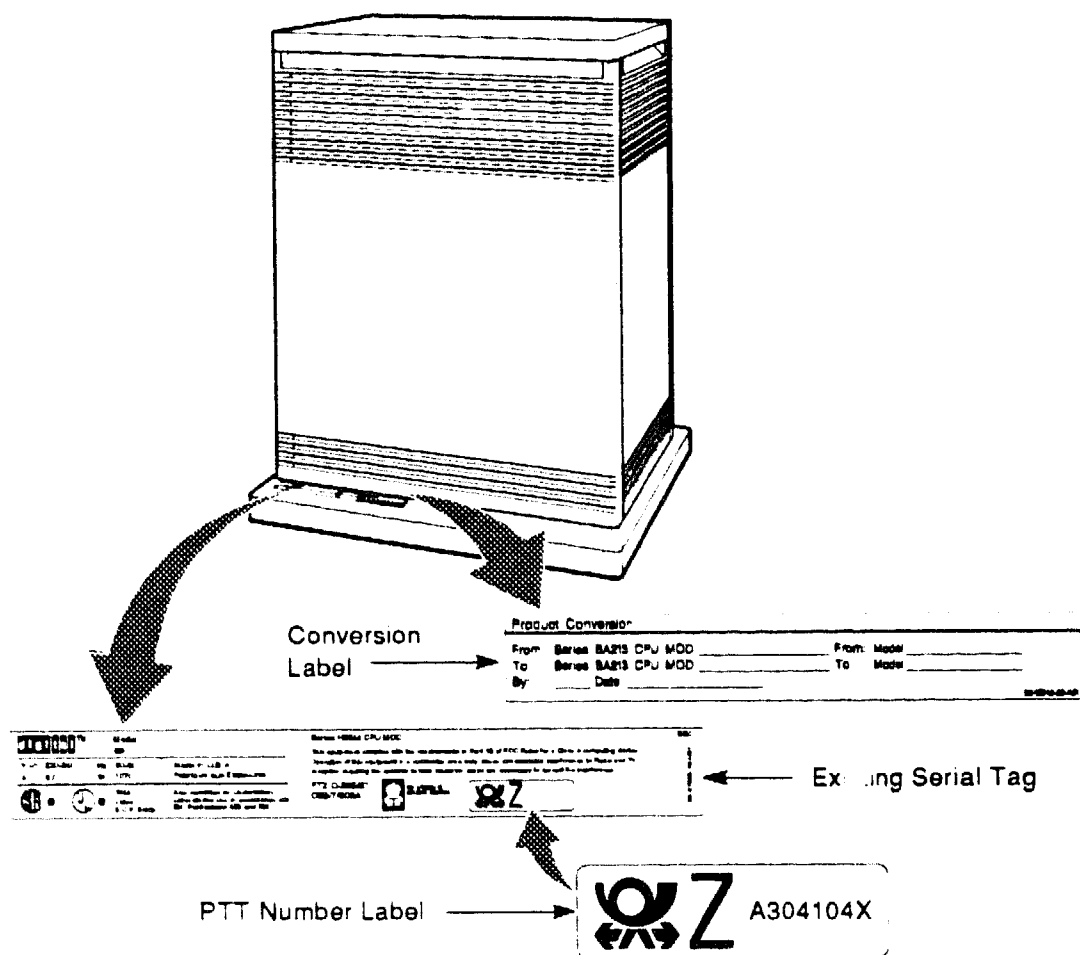


24. Reinstall the ISE, tape drive, and OCP and reconnect the cables.

25. Reinstall the media faceplate.

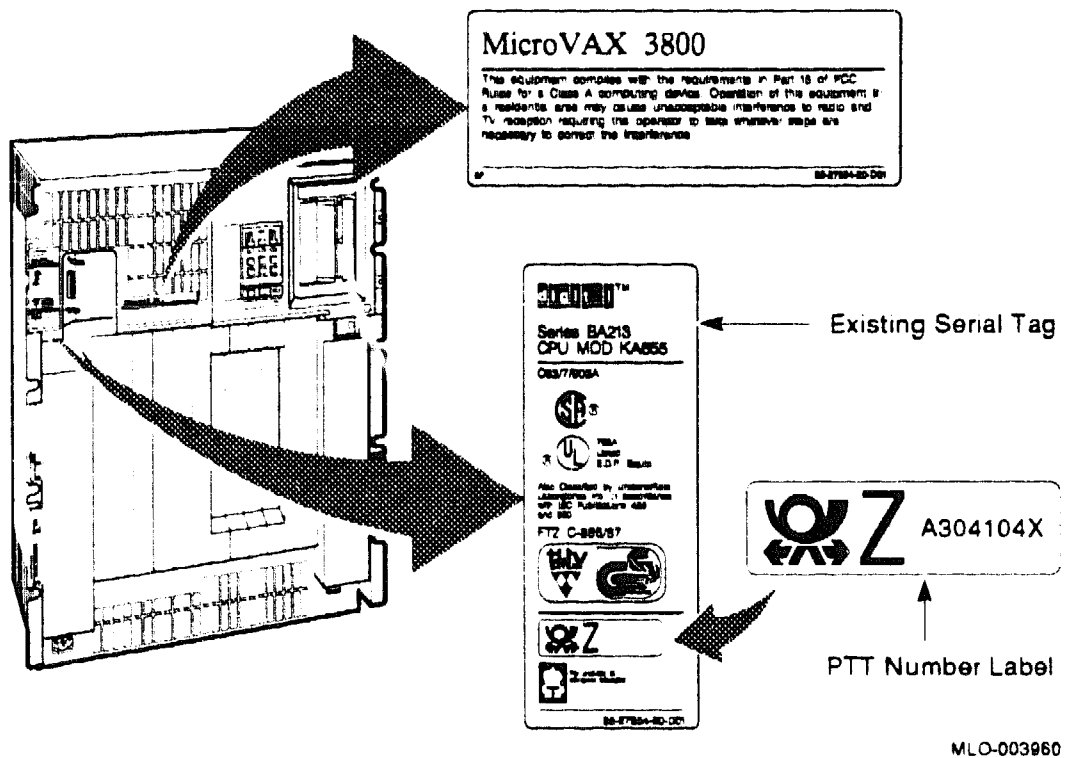
26. If the external DSSI cable is used in the system, reconnect it to the external connector on the media faceplate.
27. Reinstall the front panel.
28. Power up the system and configure it as described in the *KFQ Storage Adapter Installation and User Manual*. Then run the diagnostics to verify system operation.
29. Attach the conversion label as shown in Figure 3-14.
For a system without panels, attach the labels shown in Figure 3-15.
30. Attach the PTT number label to the existing serial tag as shown in Figure 3-14 or 3-15.

Figure 3-14: Conversion and PTT Number Label Locations



MLO-003959

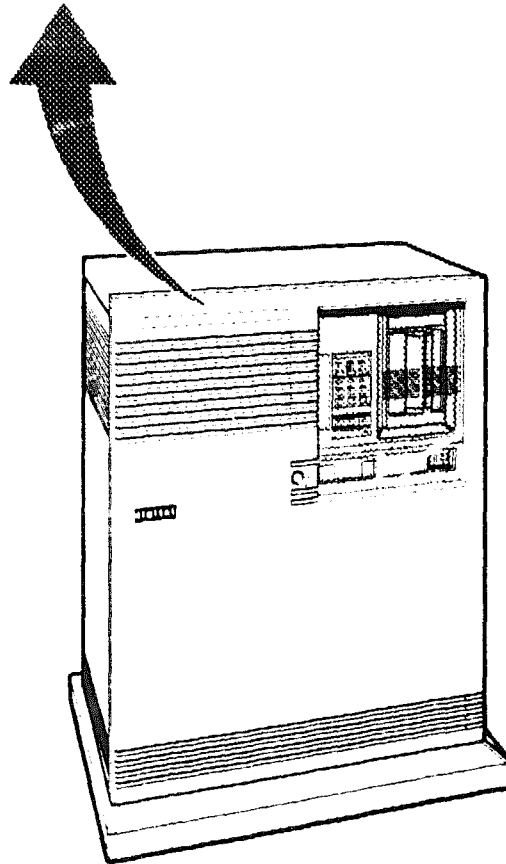
Figure 3-15: Label Locations on System Without Panels



31. Remove the old medallion, using a flat-blade screwdriver to lift it off the front panel. Then attach the new medallion as shown in Figure 3-16.

Figure 3-16: Medallion Location

MicroVAX 3800



MLO-003643

32. Have the customer reinstall the system software.
33. Fill out the forms in Appendix A.

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Chapter 4

VAXserver/MicroVAX

3500/3600/3800/3900 Conversion to VAXserver/MicroVAX 3800/3900 System

This chapter tells you how to install another 655XR kit, which converts a VAXserver/MicroVAX 3500/3600 or VAXserver 3800/3900 system to a VAXserver/MicroVAX 3800/3900 system.

- VAXserver/MicroVAX 3500 and VAXserver 3800 systems are pedestal systems.
- VAXserver/MicroVAX 3600 and VAXserver 3900 systems are cabinet systems.

This chapter covers both types.

CAUTION: *Memory modules MS650-AA will not function with a KA655-AA CPU module. When a KA650 CPU is removed and the system is converted to a KA655-AA (M7625-AA) CPU:*

- *The MS650-AA (8-Mbyte) memories must be changed to an MS650-BA (16-Mbyte) memory.*
- *The H3600 Rev A CPU I/O panel must be changed to an H3600 Rev B (or later) panel.*

The following table shows what a VAXserver/MicroVAX 3500/3600 or VAXserver 3800/3900 system becomes after the kit is installed. ULT stands for ULTRIX-32.

Before Conversion	Kit Number	After Conversion
MicroVAX 3500/3600 VMS/ULT	655XR-AA	MicroVAX 3800/3900 VMS/ULT
VAXserver 3500/3600 VMS	655XR-AB	MicroVAX 3800/3900 VMS
VAXserver 3800/3900 VMS	655XR-AC	MicroVAX 3800/3900 VMS

Before Conversion	Kit Number	After Conversion
VAXserver 3500/3600 ULT	655XR-AD	MicroVAX 3800/3900 ULT
VAXserver 3800/3900 ULT	655XR-AE	MicroVAX 3800/3900 ULT
VAXserver 3500/3600 VMS/ULT	655XR-BA	VAXserver 3800/3900 VMS/ULT

The tasks required to convert a VAXserver/MicroVAX 3500/3600 or VAXserver 3800/3900 system are summarized below. To perform these tasks, begin with Section 4.1.

1. Have the customer back up the software.
2. Run the diagnostics to verify system operation.
3. Unpack and inventory the conversion kit.
4. Remove the front panel or open the cabinet door, disconnect the CPU I/O panel cable, remove the CPU I/O panel, remove the module covers from memory slots 2 through 5, disconnect the CPU-memory cable, and remove the old CPU module.
5. Install the new KA655-AA (M7625-AA) CPU module or the new KA655-BA (M7625-BA) CPU module.
6. Remove any MS650-AA (M7621-AA) memory modules, and replace them with MS650-BA (M7622-AA) memory modules as necessary to obtain equal or greater memory capacity.
7. Connect all cables.
8. Install the new H3600 CPU I/O panel and reconnect the CPU I/O panel cable.
9. Reinstall the memory module covers and module cover labels, and reinstall the front panel or close the cabinet door.
10. Run the diagnostics to verify system operation.
11. Install the new labels and medallion.
12. Have the customer verify that the system loads and functions correctly.
13. Complete the forms in Appendix A.

4.1 Unpacking the Kit

1. Look for 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 to see if all the parts were received.

CAUTION: *Modules can be damaged by static discharge. When handling them, use the antistatic wrist strap and the antistatic mat in the antistatic kit. That kit is part of the Customer Services toolkit.*

Kit Contents

Part Number	Description
M7625-AA/BA	KA655-AA/BA CPU module
M9047-00	Q-bus grant continuity kit
70-23988-01	H3600 CPU I/O panel
36-26883-70 or 36-23883-71	Module number label, S-box, KA655-AA or Module number label, S-box, KA655-BA
36-15946-03	BA213 from/to conversion label
36-15946-04	H9644 from/to conversion label
36-25988	PTT number label
74-34425-26	MicroVAX 3800 medallion
74-34425-25	MicroVAX 3900 medallion
74-34425-27	VAXserver 3800 medallion
74-34425-28	VAXserver 3900 medallion
17-01898-01	Cable, 50-conductor flat, 2X25 RE
EK-V3000-IN	VAXserver/MicroVAX conversion guide (this document)

ULTRIX-32 Licenses

ULTRIX-32 Number	Description
QL-VEYAB-BC	ULTRIX-32 2-user base license
QL-716AB-AA	DECnet-ULTRIX 32M license with warranty
QL-VEYAB-BH	ULTRIX-32 64-user upgrade license
QA-VEYA4-H5	ULTRIX-32 64-user TK50 upgrade
QA-VEYA5-H5	ULTRIX-32 unlimited TK50 upgrade
QA-VEYAB-H5	ULTRIX-32 TK50 console/TK50

VMS Licenses

VMS Number	Description
QL-001AB-BJ	VMS 1-20 user license + key TK50
QL-D04AB-AA	DECnet-VAX end node license with warranty
QL-VBRAB-AA	VAXcluster software license with warranty

3. After unpacking and unwrapping the modules, place them on the grounded antistatic mat.
4. Save the packing material to return old modules to Digital.
5. If any item is missing or damaged:
 - Contact the customer's sales representative.
 - Contact the customer's delivery agent.

4.2 Before Installing the Kit

1. Have the customer back up the system disk (usually before Customer Services arrives). The system disk is the customer's responsibility.
2. Power up the system and run the diagnostics to verify system operation.
3. Shut down the system before installing the kit.

4.3 Kit Installation Procedure

After the kit contents are checked against the shipping invoice and all parts are satisfactory, follow the procedure listed below.

The VAXserver/MicroVAX 3500 system is mounted in a BA213 pedestal enclosure, while the VAXserver/MicroVAX 3600 system is mounted in an H9644 cabinet enclosure. This procedure covers both systems.

1. Remove the front panel or open the cabinet door:
 - Remove the front panel as shown in Figure 4-1.
 - Open the cabinet door as shown in Figure 4-2.

Figure 4-1: Removing Front Panel

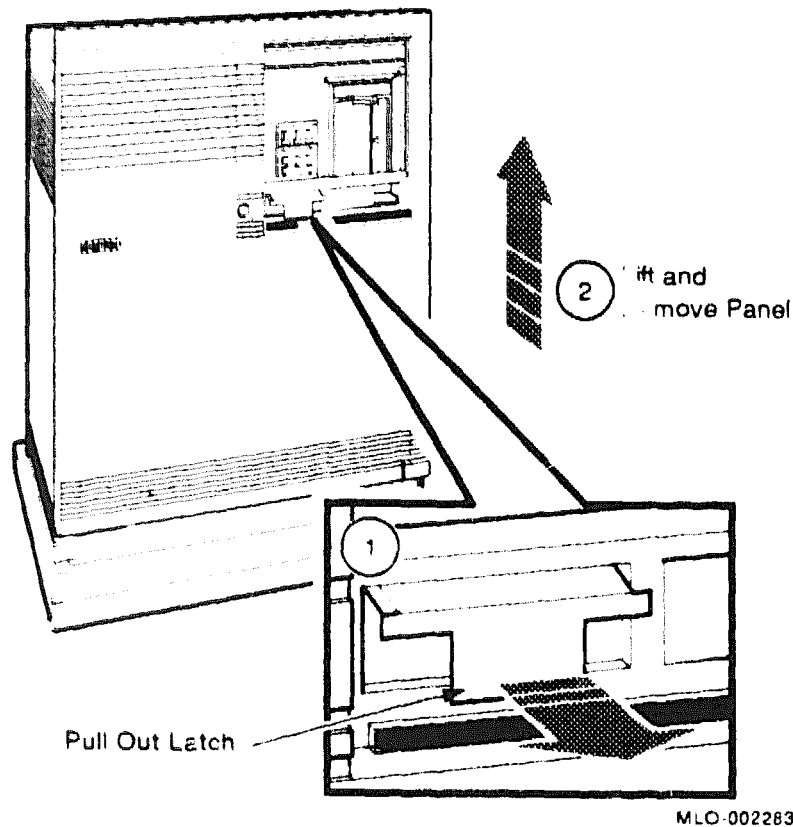
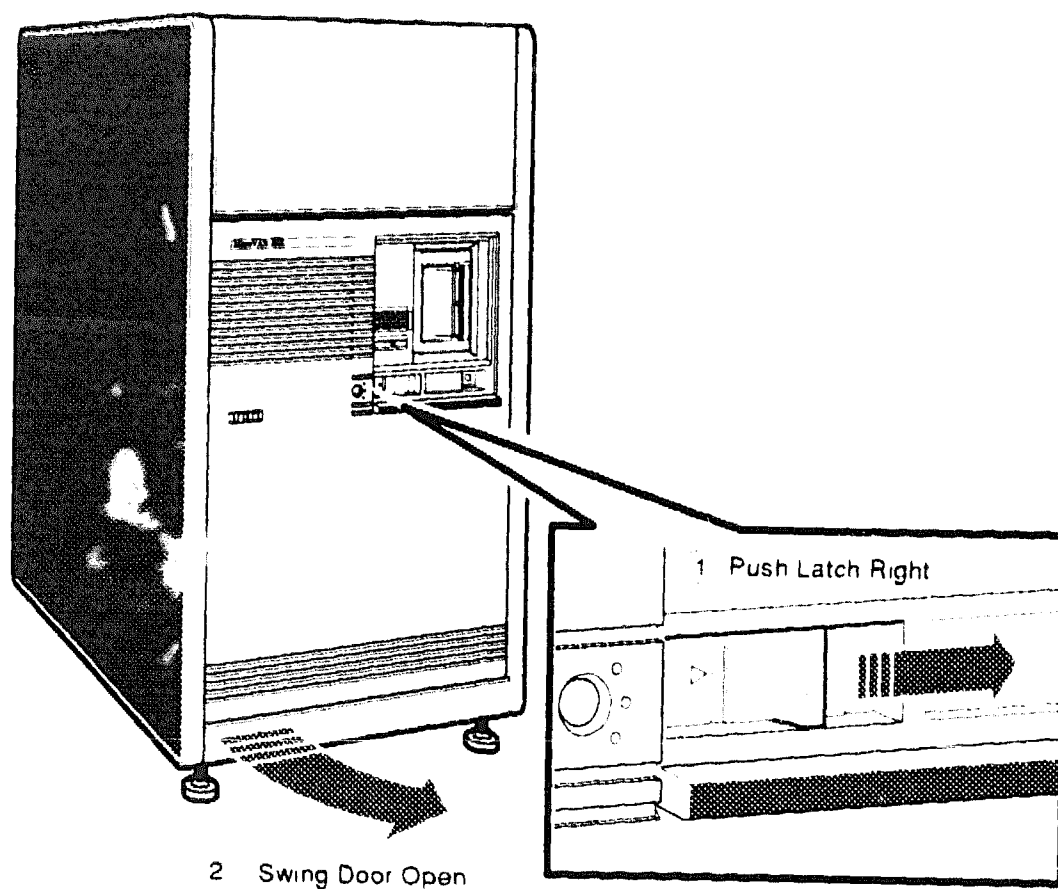


Figure 4-2: Opening Cabinet Door

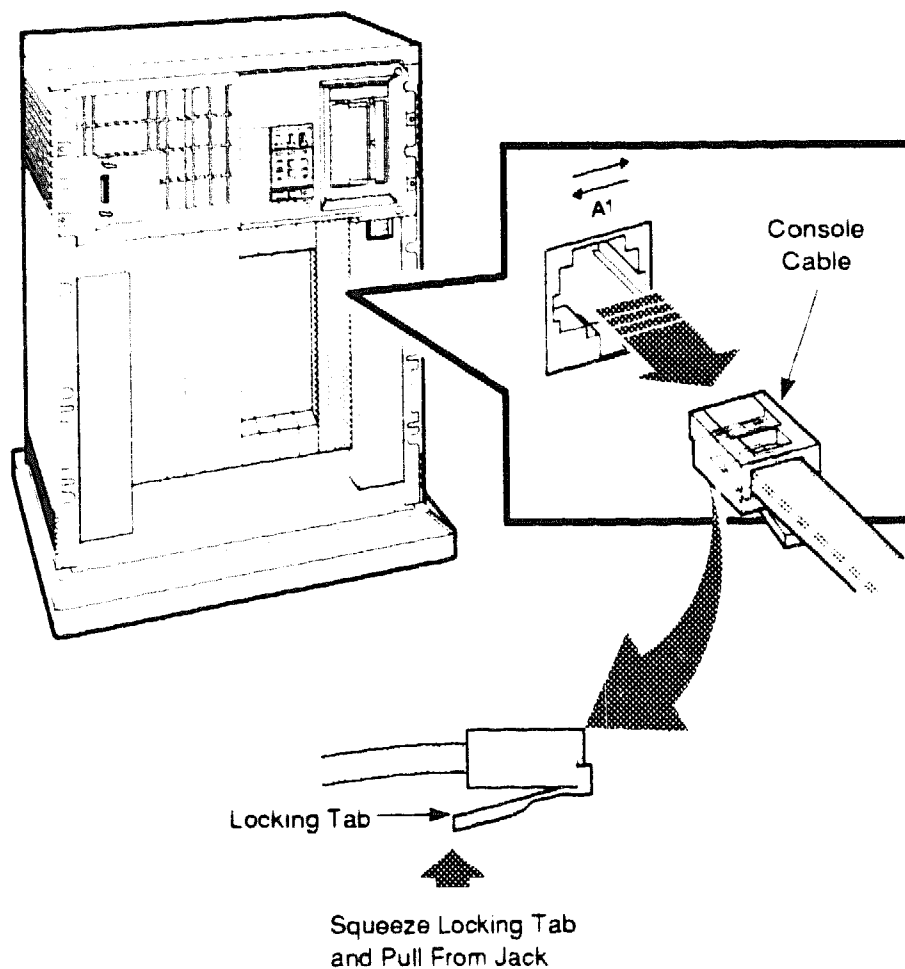


MLO-003746

2. Remove the cable connected to the CPU I/O panel as shown in Figure 4-3.

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

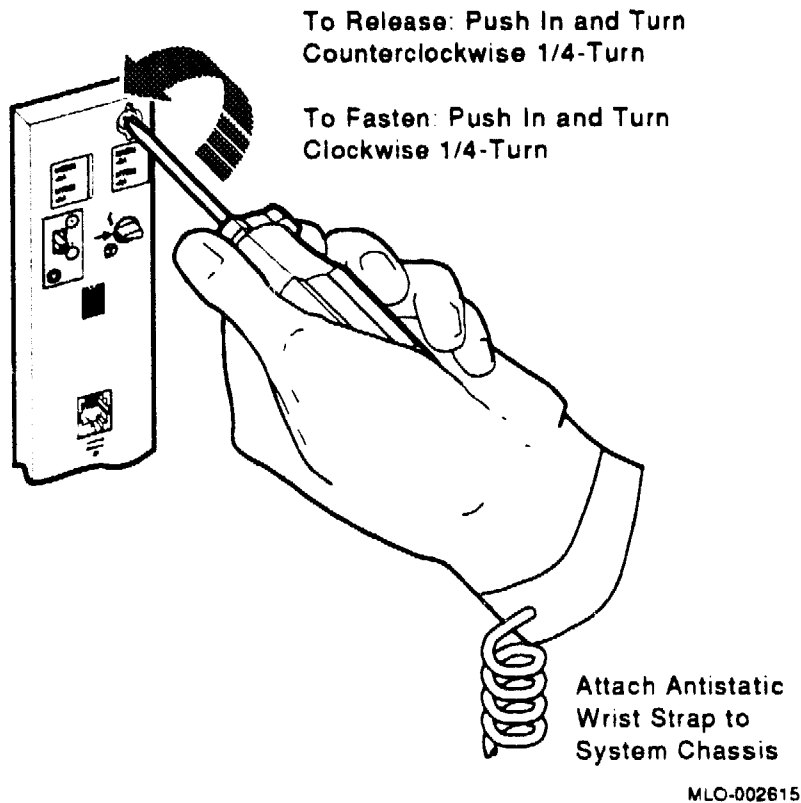
Figure 4-3: Removing CPU I/O Panel Cable



MLO-002610

3. Remove the CPU I/O panel as shown in Figure 4-4.
You can discard that panel.

Figure 4-4: Removing CPU I/O Panel

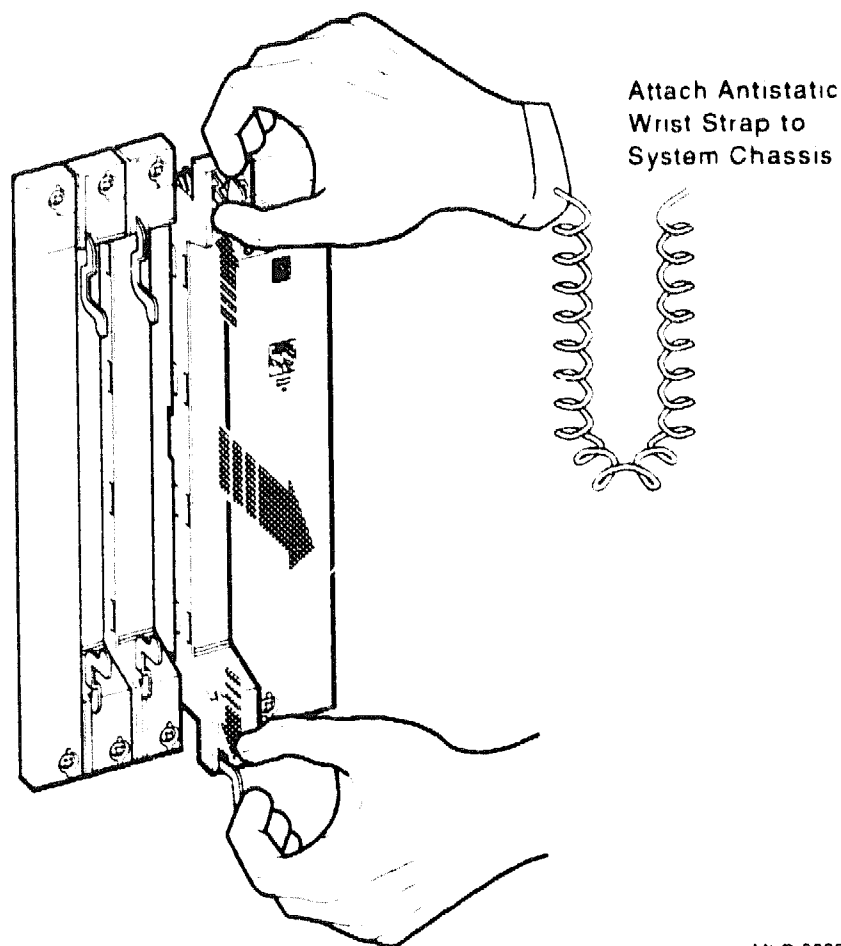


4. Remove the module covers from memory slots 2 through 5.

NOTE: A 3-connector memory cable is provided in the kit for a 2-memory module connection. If memory conversion is included as part of the CPU conversion, remove all the single-width memory module covers (70-23981-01) from slots 2 through 5. In step 8 you will install the MS650-BA (M7622-AA), 16-Mbyte memory modules.

5. Remove the 50-pin daisy-chain memory cable that connects the memory modules and the CPU module.
6. Remove the old CPU module from slot 1 as shown in Figure 4-5.

Figure 4-5: Removing Module



MLO-002611

7. Install the new KA655-AA (M7625-AA) or KA655-BA (M7625-BA) CPU module in slot 1.
 - Install the KA655-AA module in a MicroVAX system.
 - Install the KA655-BA module in a VAXserver system.
8. Install the MS650-BA memory modules, as required.
9. Install the appropriate memory cable, as required, from the CPU to all the memory modules.

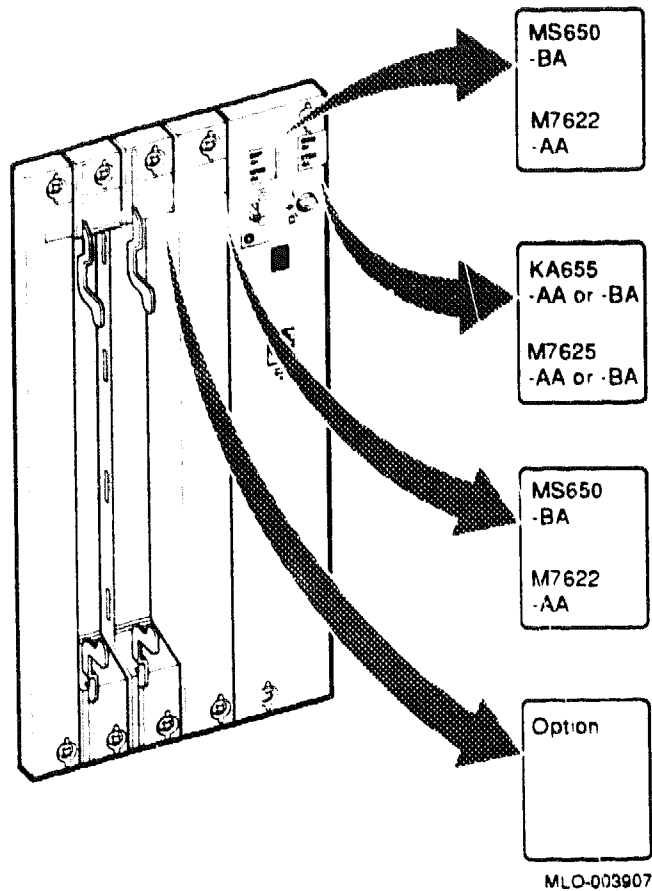
These are the cables that connect the CPU to memory.

Memory Modules	Cable Part Number
1 or 2	17-01898-01 supplied in kit (3-drop)
3 or 4	17-01898-03 presently used (5-drop)

If you have three memory modules and a 5-connector memory cable, the extra connector hangs free.

10. Install the new H3600 CPU I/O panel by attaching it to the top and bottom frame in front of the memory and CPU modules.
11. Reinstall all memory module covers and module cover labels.
12. Attach the CPU I/O panel cable to the H3600 CPU I/O panel.
13. Attach the new CPU module label and the new memory module label to the CPU I/O panel as shown in Figure 4-6. Then attach the new memory module labels to the other memory module covers as shown in Figure 4-6.

Figure 4-6: CPU and Memory Label Locations



14. Replace the front panel or close the cabinet door.
15. Power up the system and run the system diagnostics to verify system operation.
16. Attach the conversion label as shown in Figure 4-7.
For a system without panels or doors, attach the labels shown in Figure 4-8.
17. For a MicroVAX 3800 system, attach the PTT number label to the existing serial tag as shown in Figure 4-7 or 4-8.

Product Conversion

From	Series	Model	From	Mode
To	Series	Model	To	Mode
By	Date			

Conversion Label

Product Conversion

From	Series	Model	From	Mode
To	Series	Model	To	Mode
By	Date			

Conversion Label

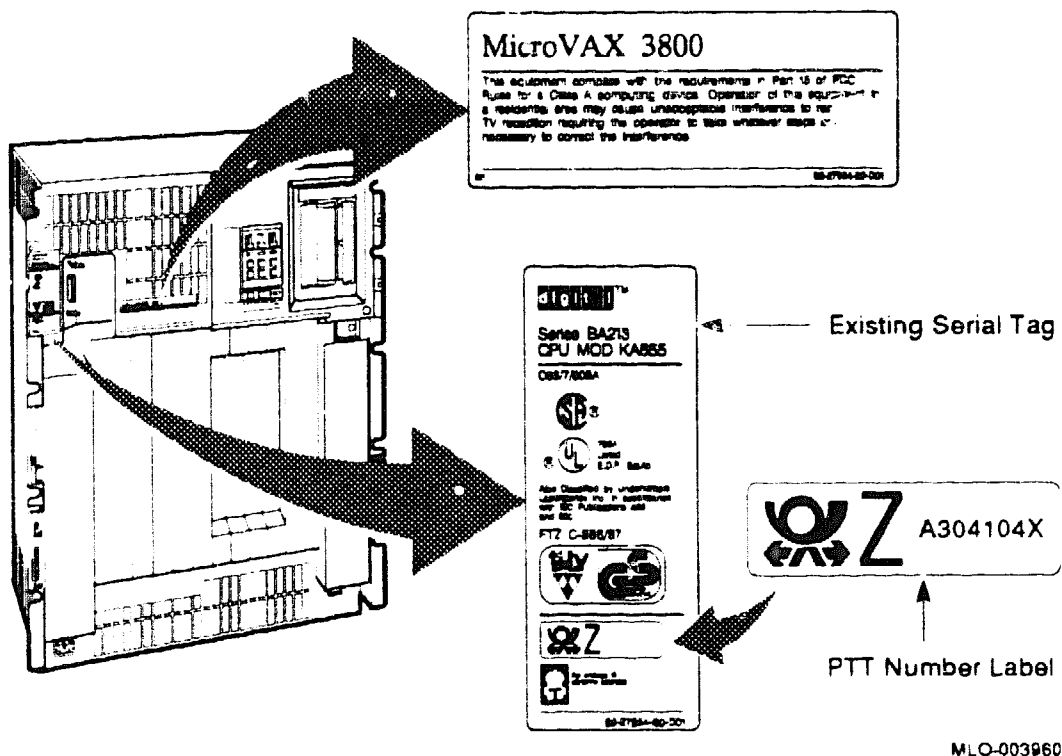
Existing Serial Tag

PTT Number Label

Z A304104X

4-12 /AXserver/MicroVAX 3000-series System Conversion Guide

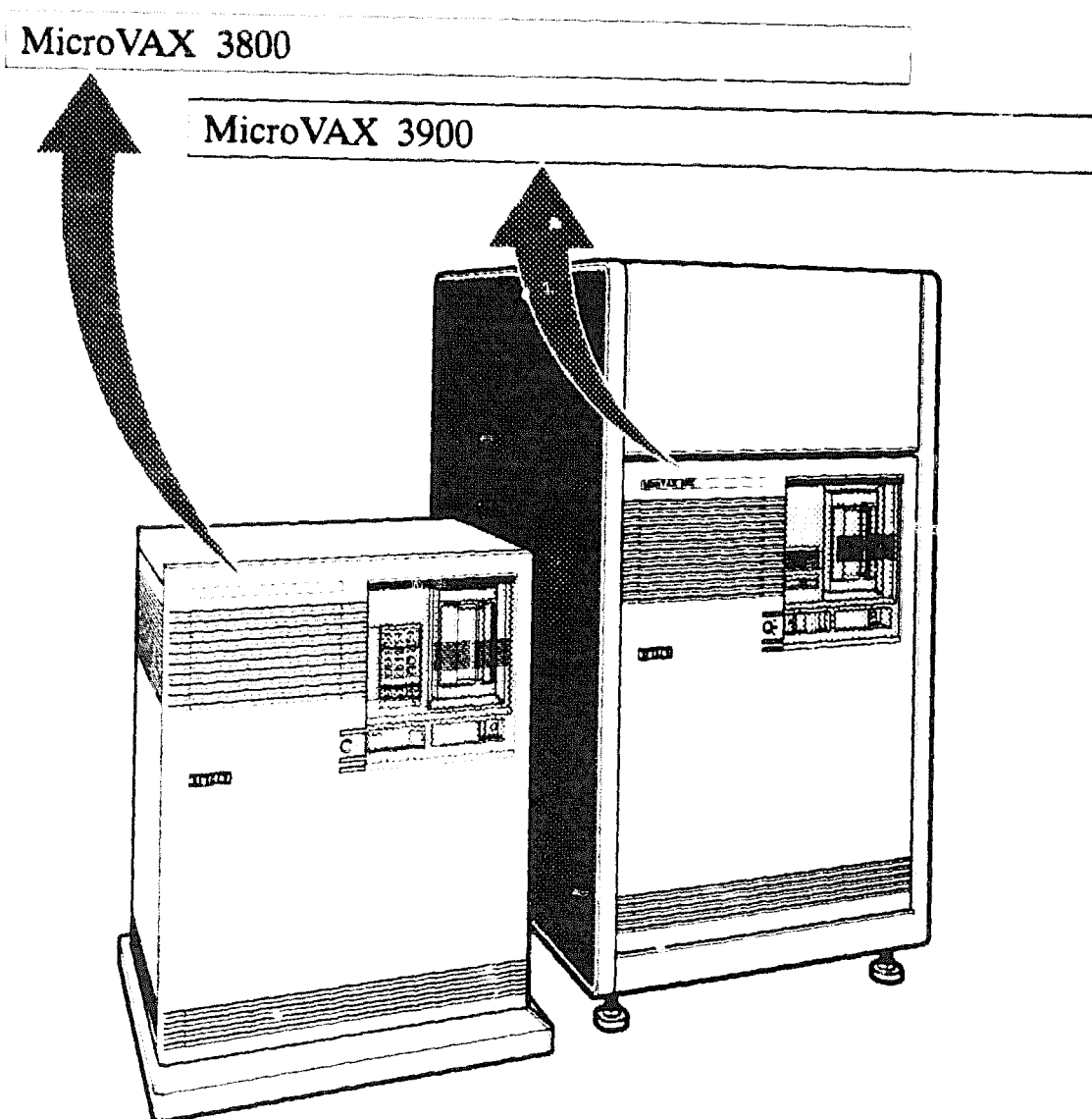
Figure 4-8: Label Locations on System Without Panels or Doors



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 4-9.

Figure 4-9: Medallion Location



MLO-002621

20. Have the customer reinstall the system software.

21. Fill out the forms in Appendix A.

Appendix A

Module Return Procedure and Forms

Use the following instructions to repackage and return the old CPU modules (and memory modules, if any) to Digital. 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. Do not use the mailing labels on the last page of this document.

A.1 Return Procedure

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

1. Use the packaging material set aside from the conversion kit to pack the old modules in the carton that contained the new modules (quad-height module box).

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

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

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

3. 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 modules to Digital.

4. Complete both copies of the Installation Receipt.

The first copy is the customer's receipt. It shows that the installation was completed and that Customer Services contacted CAS.

Return the second copy to Customer Services along with the old modules to ensure that the customer receives credit for the old modules.

5. Complete the Return Material Checklist.

Return the checklist with the old modules.

6. Place the self-adhesive mailing labels on the last page of this document on the module boxes you are returning.

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

7. Seal the boxes for shipment.

Refer questions regarding the procedure to the local account representative.

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

VAXserver/MicroVAX 3000-series Conversion

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 Name: VAXserver _____ MicroVAX _____

Old System Model Number: _____

Old CPU Module Serial Number: _____

New System Name: VAXserver _____ MicroVAX _____

New System Model Number: _____

New CPU Module Serial Number: _____

See Appendix B for new model numbers.

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Installation Receipt—Customer Copy

VAXserver/MicroVAX 3000-series Conversion

This form acts as a customer receipt and as verification for Customer Services that conversion kit 640XR or 655XR 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 with whom you spoke.

Name of CAS representative: _____ Branch Off.: _____, who will arrange for package pickup and return.

Return Authorization Number: _____

Digital Order Number: _____

Converted from: VAXserver _____ MicroVAX _____

Old CPU Module Serial Number: _____

Converted to: VAXserver _____ MicroVAX _____

New CPU Module Serial Number: _____

Installation was performed on this day: _____

Module Packed for Return: (Check the appropriate module.)

KA640 _____ KA650 _____ KA655 _____

Customer Name: _____ Phone Number: _____

Signatures:

Customer: _____

Customer Services Representative: _____

PAGE A-6 **INTENTIONALLY LEFT BLANK**

Installation Receipt—Customer Services Copy

VAXserver/MicroVAX 3000-series Conversion

This form acts as a customer receipt and as verification for Customer Services that conversion kit 640XR or 655XR 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 with whom you spoke.

Name of CAS representative: _____ Branch Off.: _____, who will arrange for package pickup and return.

Return Authorization Number: _____

Digital Order Number: _____

Converted from: VAXserver _____ MicroVAX _____

Old CPU Module Serial Number: _____

Converted to: VAXserver _____ MicroVAX _____

New CPU Module Serial Number: _____

Installation was performed on this day: _____

Module Packed for Return: (Check the appropriate module.)

KA640 _____ KA650 _____ KA655 _____

Customer Name: _____ Phone Number: _____

Signatures:

Customer: _____

Customer Services Representative: _____

PAGE (A-8)

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Return Material Checklist

KA640 CPU Module (M7624): _____

KA650 CPU Module (M7620): _____

KA655 CPU Module (M7625): _____

MS650 Memory Module (M7621-AA): _____

For VAXserver/MicroVAX 3000-series Conversion

This form must be filled out and returned with the old modules to clear the customer's account.

Type of CPU module being returned: (check one)

KA640 _____ KA650 _____ KA655 _____

Return Authorization Number: _____

Digital Order Number: _____

Customer Name: _____

Customer Address: _____

Customer Contact: _____

***** INCLUDE THIS FORM WITH YOUR MODULE RETURN *****

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A.3 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	313/344-2. 35
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
Southwest District, Tempe	602/894-4747

Name, Location	Phone Number
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

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Appendix B

Model Numbers

To fill out the new from/to conversion label:

1. Find the old CPU MOD number and the old system Model number on the label on the back of the system.
2. Write those numbers on the From line of the conversion label.
3. Select the appropriate table in this appendix and then use that table to find the new CPU MOD number and the new system Model number. In each table:

- The first column lists the old system Model numbers.
- The second column lists the conversion kit numbers.
- The third column lists the new system Model numbers.
- The fourth column lists the new CPU MOD numbers.

Match the old system Model number with the conversion kit number to find the new system Model number and the new CPU MOD number.

4. Write those new numbers on the To line of the conversion label.

Table B-1: From and To 3300/3400 (Pedestal) Model Labels

Old Model Number		Conversion Kit Number		New Model Number	New CPU MOD Number
VAXserver to MicroVAX					
640QR-E2	+	640XR-AC/AE	=	640QR-A2	KA640-AA
640QR-E3	+	640XR-AC/AE	=	640QR-A3	KA640-AA
640QR-F2	+	640XR-AC/AE	=	640QR-B2	KA640-AA
640QR-F3	+	640XR-AC/AE	=	640QR-B3	KA640-AA
640QR-H2	+	640XR-AC/AE	=	640QR-C2	KA640-AA
640QR-H3	+	640XR-AC/AE	=	640QR-C3	KA640-AA

Table B-1 (Cont.): From and To 3300/3400 (Pedestal) Model Labels

Old Model Number		Conversion Kit Number		New Model Number	New CPU MOD Number
640QR-J2	+	640XR-AC/AE	=	640QR-D2	KA640-AA
640QR-J3	+	640XR-AC/AE	=	640QR-D3	KA640-AA
640QS-E2	+	640XR-AC/AE	=	640QS-A2	KA640-AA
640QS-E3	+	640XR-AC/AE	=	640QS-A3	KA640-AA
640QS-F2	+	640XR-AC/AE	=	640QS-B2	KA640-AA
640QS-F3	+	640XR-AC/AE	=	640QS-B3	KA640-AA
640QS-H2	+	640XR-AC/AE	=	640QS-C2	KA640-AA
640QS-H3	+	640XR-AC/AE	=	640QS-C3	KA640-AA
640QS-J2	+	640XR-AC/AE	=	640QS-D2	KA640-AA
640QS-J3	+	640XR-AC/AE	=	640QS-D3	KA640-AA

Table B-2: From 3300/3400 To 3800 (Pedestal) Model Labels

Old Model Number		Conversion Kit Number		New Model Number	New CPU MOD Number
MicroVAX to MicroVAX					
640QR-A2	+	655XR-CA/CC/CE	=	655QR-A2	KA655-AA
640QR-A3	+	655XR-CA/CC/CE	=	655QR-A3	KA655-AA
640QR-B2	+	655XR-CA/CC/CE	=	655QR-B2	KA655-AA
640QR-B3	+	655XR-CA/CC/CE	=	655QR-B3	KA655-AA
640QR-D2	+	655XR-CA/CC/CE	=	655QR-D2	KA655-AA
640QR-D3	+	655XR-CA/CC/CE	=	655QR-D3	KA655-AA
640QS-A2	+	655XR-CA/CC/CE	=	655QS-A2	KA655-AA
640QS-A3	+	655XR-CA/CC/CE	=	655QS-A3	KA655-AA
640QS-B2	+	655XR-CA/CC/CE	=	655QS-B2	KA655-AA
640QS-B3	+	655XR-CA/CC/CE	=	655QS-B3	KA655-AA
640QS-C2	+	655XR-CA/CC/CE	=	655QS-C2	KA655-AA

Table B-2 (Cont.): From 3300/3400 To 3800 (Pedestal) Model Labels

Old Model Number		Conversion Kit Number		New Model Number	New CPU MOD Number
640QS-C3	+	655XR-CA/CC/CE	=	655QS-C3	KA655-AA
640QS-D2	+	655XR-CA/CC/CE	=	655QS-D2	KA655-AA
640QS-D3	+	655XR-CA/CC/CE	=	655QS-D3	KA655-AA
VAXserver to MicroVAX					
640QR-E2	+	655XR-CB/CD	=	655QR-A2	KA655-AA
640QR-E3	+	655XR-CB/CD	=	655QR-A3	KA655-AA
640QR-F2	+	655XR-CB/CD	=	655QR-B2	KA655-AA
640QR-F3	+	655XR-CB/CD	=	655QR-B3	KA655-AA
640QR-J2	+	655XR-CB/CD	=	655QR-D2	KA655-AA
640QR-J3	+	655XR-CB/CD	=	655QR-D3	KA655-AA
640QS-E2	+	655XR-CB/CD	=	655QS-A2	KA655-AA
640QS-E3	+	655XR-CB/CD	=	655QS-A3	KA655-AA
640QS-F2	+	655XR-CB/CD	=	655QS-B2	KA655-AA
640QS-F3	+	655XR-CB/CD	=	655QS-B3	KA655-AA
640QS-H2	+	655XR-CB/CD	=	655QS-C2	KA655-AA
640QS-H3	+	655XR-CB/CD	=	655QS-C3	KA655-AA
640QS-J2	+	655XR-CB/CD	=	655QS-D2	KA655-AA
640QS-J3	+	655XR-CB/CD	=	655QS-D3	KA655-AA
VAXserver to VAXserver					
640QR-E2	+	655XR-DA/DC	=	655QR-E2	KA655-BA
640QR-E3	+	655XR-DA/DC	=	655QR-E3	KA655-BA
640QR-F2	+	655XR-DA/DC	=	655QR-F2	KA655-BA
640QR-F3	+	655XR-DA/DC	=	655QR-F3	KA655-BA
640QR-J2	+	655XR-DA/DC	=	655QR-J2	KA655-BA
640QR-J3	+	655XR-DA/DC	=	655QR-J3	KA655-BA
640QS-E2	+	655XR-DA/DC	=	655QS-E2	KA655-BA

Table B-2 (Cont.): From 3300/3400 To 3800 (Pedestal) Model Labels

Old Model Number		Conversion Kit Number		New Model Number	New CPU MOD Number
640QS-E3	+	655XR-DA/DC	=	655QS-E3	KA655-BA
640QS-F2	+	655XR-DA/DC	=	655QS-F2	KA655-BA
640QS-F3	+	655XR-DA/DC	=	655QS-F3	KA655-BA
640QS-H2	+	655XR-DA/DC	=	655QS-H2	KA655-BA
640QS-H3	+	655XR-DA/DC	=	655QS-H3	KA655-BA
640QS-J2	+	655XR-DA/DC	=	655QS-J2	KA655-BA
640QS-J3	+	655XR-DA/DC	=	655QS-J3	KA655-BA

Table B-3: From 3500 To 3800 (Pedestal) Model Labels

Old Model Number		Conversion Kit Number		New Model Number	New CPU MOD Number
MicroVAX to MicroVAX					
650QS-A2	+	655XR-AA	=	655QS-A2	KA655-AA
650QS-A3	+	655XR-AA	=	655QS-A3	KA655-AA
650QS-B2	+	655XR-AA	=	655QS-B2	KA655-AA
650QS-B3	+	655XR-AA	=	655QS-B3	KA655-AA
650QS-C2	+	655XR-AA	=	655QS-C2	KA655-AA
650QS-C3	+	655XR-AA	=	655QS-C3	KA655-AA
650QS-D2	+	655XR-AA	=	655QS-D2	KA655-AA
650QS-D3	+	655XR-AA	=	655QS-D3	KA655-AA
650QS-K2	+	655XR-AA	=	655QS-B2	KA655-AA
650QS-K3	+	655XR-AA	=	655QS-B3	KA655-AA
650QS-L2	+	655XR-AA	=	655QS-B2	KA655-AA
650QS-L3	+	655XR-AA	=	655QS-B3	KA655-AA
VAXserver to MicroVAX					
650QS-E2	+	655XR-AB/AD	=	655QS-A2	KA655-AA

Table B-3 (Cont.): From 3500 To 3800 (Pedestal) Model Labels

Old Model Number		Conversion Kit Number		New Model Number	New CPU MOD Number
650QS-E3	+	655XR-AB/AD	=	655QS-A3	KA655-AA
650QS-F2	+	655XR-AB/AD	=	655QS-B2	KA655-AA
650QS-F3	+	655XR-AB/AD	=	655QS-B3	KA655-AA
650QS-H2	+	655XR-AB/AD	=	655QS-C2	KA655-AA
650QS-H3	+	655XR-AB/AD	=	655QS-C3	KA655-AA
650QS-J2	+	655XR-AB/AD	=	655QS-D2	KA655-AA
650QS-J3	+	655XR-AB AD	=	655QS-D3	KA655-AA
650QS-M2	+	655XR-AC/AE	=	655QS-B2	KA655-AA
650QS-M3	+	655XR-AC/AE	=	655QS-B3	KA655-AA
650QS-N2	+	655XR-AB/AD	=	655QS-B2	KA655-AA
650QS-N3	+	655XR-AB/AD	=	655QS-B3	KA655-AA
VAXserver to VAXserver					
650QS-E2	+	655XR-BA	=	655QS-E2	KA655-BA
650QS-E3	+	655XR-BA	=	655QS-E3	KA655-BA
650QS-F2	+	655XR-BA	=	655QS-F2	KA655-BA
650QS-F3	+	655XR-BA	=	655QS-F3	KA655-BA
650QS-H2	+	655XR-BA	=	655QS-H2	KA655-BA
650QS-H3	+	655XR-BA	=	655QS-H3	KA655-BA
650QS-J2	+	655XR-BA	=	655QS-J2	KA655-BA
650QS-J3	+	655XR-BA	=	655QS-J3	KA655-BA
650QS-M2	+	655XR-BA	=	655QS-F2	KA655-AA
650QS-M3	+	655XR-BA	=	655QS-F3	KA655-AA
650QS-N2	+	655XR-BA	=	655QS-H2	KA655-AA
650QS-N3	+	655XR-BA	=	655QS-H3	KA655-AA

Table B-4: From and To 3800 (Pedestal) Model Labels

Old Model Number		Conversion Kit Number		New Model Number	New CPU MOD Number
VAXserver to MicroVAX					
655QS-E2	+	655XR-AC/AE	=	655QS-A2	KA655-AA
655QS-E3	+	655XR-AC/AE	=	655QS-A3	KA655-AA
655QS-F2	+	655XR-AC/AE	=	655QS-B2	KA655-AA
655QS-F3	+	655XR-AC/AE	=	655QS-B3	KA655-AA
655QS-H2	+	655XR-AC/AE	=	655QS-C2	KA655-AA
655QS-H3	+	655XR-AC/AE	=	655QS-C3	KA655-AA
655QS-J2	+	655XR-AC/AE	=	655QS-D2	KA655-AA
655QS-J3	+	655XR-AC/AE	=	655QS-D3	KA655-AA

Table B-5: From 3600 To 3900 (H9644) Cabinet Labels

Old Model Number		Conversion Kit Number		New Model Number	New CPU MOD Number
MicroVAX to MicroVAX					
650QF-A2	+	655XR-AA	=	655QF-A2	KA655-AA
650QF-A3	+	655XR-AA	=	655QF-A3	KA655-AA
650QF-C2	+	655XR-AA	=	655QF-A2	KA655-AA
650QF-C3	+	655XR-AA	=	655QF-A3	KA655-AA
650QF-D2	+	655XR-AA	=	655QF-A2	KA655-AA
650QF-D3	+	655XR-AA	=	655QF-A3	KA655-AA
650QF-F2	+	655XR-AA	=	655QF-A2	KA655-AA
650QF-F3	+	655XR-AA	=	655QF-A3	KA655-AA
VAXserver to MicroVAX					
650QF-B2	+	655XR-AB/AD	=	655QF-A2	KA655-AA
650QF-B3	+	655XR-AB/AD	=	655QF-A3	KA655-AA
650QF-E2	+	655XR-AB/AD	=	655QF-A2	KA655-AA
650QF-E3	+	655XR-AB/AD	=	655QF-A3	KA655-AA

Table B-5 (Cont.): From 3600 To 3900 (H9644) Cabinet Labels

Old Model Number		Conversion Kit Number		New Model Number	New CPU MOD Number
650QF-H2	+	655XR-AB/AD	=	655QF-A2	KA655-AA
650QF-H3	+	655XR-AB/AD	=	655QF-A3	KA655-AA
VAXserver to VAXserver					
650QF-B2	+	655XR-BA	=	655QF-B2	KA655-BA
650QF-B3	+	655XR-BA	=	655QF-B3	KA655-BA
650QF-E2	+	655XR-BA	=	655QF-B2	KA655-BA
650QF-E3	+	655XR-BA	=	655QF-B3	KA655-BA
650QF-H2	+	655XR-BA	=	655QF-B2	KA655-BA
650QF-H3	+	655XR-BA	=	655QF-B3	KA655-BA

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