3.5-Inch RF-Series Disk Drive Installation Guide for BA42B-Based VAX 4000 Systems

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Preface

Overview

Introduction

This manual provides reference, configuration, and installation information for 3.5-inch RF-series disk drives in the BA42B-based VAX 4000 system.

Intended Audience

The audience for this manual consists of Digital Services engineers or customers who have a self-maintenance agreement with Digital Equipment Corporation and will install 3.5-inch RF-series disk drives in the BA42B-based VAX 4000 system.

Organization

This manual contains information specifically for installation of 3.5-inch RF-series disk drives in a BA42B-based VAX 4000 system. Information for the installation of all other disk drives or options or information pertaining to the BA42B itself can be found in other Digital documentation.

Conventions

The following conventions are used in this manual:

Convention	Description
\overline{x}	A lowercase italic <i>x</i> indicates the generic use of a letter. For example, <i>xxx</i> indicates any combination of three alphabetic characters.
italic type	Italic type emphasizes important information or indicates variables. It is also used for the titles of manuals.

Overview

Convention	Description		
boldface type	Boldface type in examples indicates user input. Boldface type in text indicates the first instance of terms defined either in the text, in the glossary, or both.		
nn nnn.nnn nn	A space character separates groups of 3 digits in numerals with 5 or more digits. For example, 10 000 equals ten thousand.		
n.nn	A period in numerals signals the decimal point indicator. For example, 1.75 equals one and three-fourths.		
MONOSPACE	Text displayed on the screen is shown in monospaced type.		
Radix indicators	The radix of a number is written as a word enclosed in parentheses, for example, 23(decimal) or 34(hexadecimal).		
UPPERCASE	A word in uppercase indicates a command.		
Note	A note contains information that is of special importance to the user.		
Caution	A caution contains information to prevent damage to the equipment.		

3.5-Inch RF-Series Disk Drive Information

Introduction	
Note	Note
	Contact your Digital Services representative to install 3.5-inch RF-series options in your system. If you attempt to install these options, you may invalidate the warranty.
Manual Contents	This manual contains the following sections: • Description
	Brief description of the option
	• Option Contents
	List of the option components
	DSSI ID Information
	Description of setting the device's DSSI ID
	 Installation
	Description of installation procedures
	Diagnostic Support
	Testing the operation of the disk drive

3.5-Inch RF-Series Disk Drive Options

Description The 3.5-inch RF-series disk drives are high-performance DSSI

devices which store data in fixed length blocks on thin-film rigid media disks. The storage medium in the disk drive is fixed, not

operator removable.

Ordering Information

To receive the appropriate installation hardware when installing a 3.5-inch RF-series disk drive in a BA42B-based VAX 4000 system, a Digital Services employee must order the disk drive option rather than the basic disk drive alone.

Option Contents

The 3.5-inch RF-series options contain the disk drives as well as a mounting bracket (P/N 74-44226-01), and the four grommets (P/N 12-31734-01).

2

Installation

3.5-Inch RF-Series DSSI IDs

Setting the DSSI ID

In a BA42B-based VAX 4000 system, each DSSI device must have a unique DSSI ID number. When installing 3.5-inch RF-series disk drive options, the DSSI ID must be set to an ID that is not used by any of the other DSSI devices in the system. For further information see the appropriate documentation for the particular system with which you are working.

1. Locate the DSSI ID jumper wires on the disk drive. See Figure 2–1.

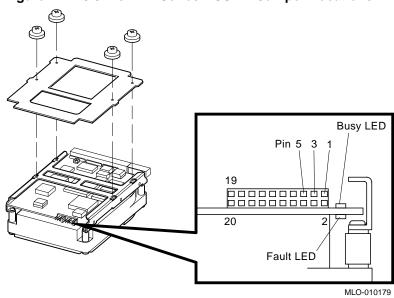


Figure 2-1 3.5-Inch RF-Series DSSI ID Jumper Locations

Table 2–1 shows the DSSI ID jumper combinations.

Table 2-1 3.5-Inch RF-Series DSSI ID Jumper Combinations

			•	
DSSI ID	Pin 5	Pin 3	Pin 1	
0	Out	Out	Out	
1	Out	Out	In	
2	Out	In	Out	
3	Out	In	In	
4	In	Out	Out	
5	In	Out	In	
6	In	In	Out	
7	In	In	In	

2. Determine the DSSI ID number to be assigned to the 3.5-inch RF-series disk drive option.

 Note	

When the system is in console mode, enter the SHOW DSSI command to view the DSSI ID numbers for the existing devices in the system.

3. Position the jumpers for the DSSI ID number selected. Table 2–1 shows the DSSI ID number and the corresponding jumper wire combinations.

3.5-Inch RF-Series Installation Procedures

Before Installing 3.5-Inch RF-Series Disk Drive Options Before installing the 3.5-inch RF-series disk drive option on the upper shelf, remove the enclosure cover. See the *BA42B Enclosure Maintenance Manual* (EK–472Ax–MG) for more information. The 3.5-inch RF-series disk drive options can only be installed on the upper drive-mounting shelf of a BA42B-based VAX 4000 system.

Installing 3.5-Inch RF-Series Disk Drive Options To install 3.5-inch RF-series disk drive options, follow these steps:

1. Attach the mounting bracket (P/N 74–44226–01) with the four grommets/screws (P/N 12-31734-01). The grommets fit into the recessed side of the imprinted pockets on the bracket. Figure 2–2 shows a sample 3.5-inch RF-series disk drive option with the mounting bracket. If you receive the drive with the mounting hardware already attached, disregard this step.

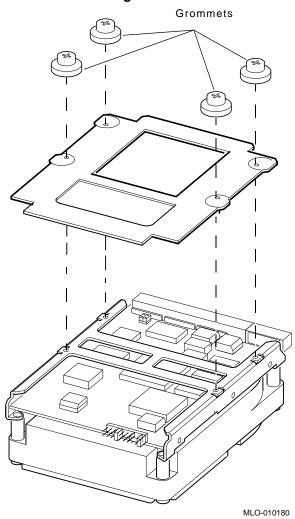


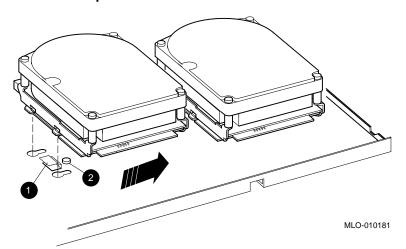
Figure 2-2 Sample 3.5-Inch RF-Series Disk Drive Option with **Mounting Bracket**

2. Identify the drive-mounting shelf position where the 3.5-inch RF-series option is to be installed. See the BA42B Enclosure Maintenance Manual (EK-472Ax-MG) for information about mass storage device orientation and combinations.

- 3. Identify the power cable that provides power to the drivemounting shelf where the 3.5-inch RF-series option is to be installed. Connect the power cable to the power connector on the back of the 3.5-inch RF-series disk drive option.
- 4. Connect a DSSI cable connector to the back of the 3.5-inch RF-series disk drive option.
- 5. Identify the spring clip for the drive position where the 3.5-inch RF-series disk drive option will be installed (Figure 2–3). Then remove the lock-out screw if it has not already been removed.

Figure 2-3 shows how to install sample 3.5-inch RF-series disk drive options.

Figure 2–3 Installing a Sample 3.5-Inch RF-Series Disk Drive Option



- Spring clip
- 2 Lock-out screw
- 6. Position the grommets attached to the 3.5-inch RF-series option in the cutouts of the 3.5-inch RF-series drive-mounting shelf.

3.5-Inch RF-Series Installation Procedures

7. Push the 3.5-inch RF-series disk drive option in until the grommets are secure in the cutouts, then slide the drive away from the spring clip on the drive-mounting shelf so that the clip locks the disk drive into position.

After the 3.5-inch RF-series disk drive option is installed, replace the enclosure cover.

Diagnostics

Diagnostic Support

The BA42B-based VAX 4000 system provides diagnostic support that tests the operation of a 3.5-inch RF-series disk drive.

Enter the following command at the console prompt to verify that the 3.5-inch RF-series disk drive is visible on the bus:

>>> SHOW DSSI

If the test fails, the console terminal displays a hard error message containing test mnemonic (DSSI).

For details on diagnostics, refer to the appropriate documentation for the particular system with which you are working.

Reader's Comments

3.5-Inch RF-Series Disk Drive Installation Guide for BA42B-Based VAX 4000 Systems EK-RF31T-IN. A02

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