

RRD43 CD-ROM Disc Drive

Operation Information for BA400-Based VAX 4000 Systems

Order Number: EK-RRDDD-IN. A01

April, 1994

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Preface

This manual provides supplementary procedures for operating the RRD43 CD-ROM in a BA400-based VAX 4000 system.

Intended Audience

This manual is intended for BA400-based VAX 4000 system operators and users of the RRD43 CD-ROM.

Structure

This manual is structured as follows:

Chapter 1	Contains a general description and specifications for the RRD43 CD-ROM.
Chapter 2	Contains operating information for the RRD43 CD-ROM disc drive.

Related Documentation

The following documentation may be helpful in using the RRD43 CD-ROM disc drive.

<i>BA400-Series Enclosures Storage Devices Installation Procedures</i>	EK-BA44A-IN
<i>RRD43 CD-ROM Drive Installation Guide</i>	EK-RRD43-IN
<i>VAX/VMS Guide to Using Command Procedures</i>	AA-H782B-TE
<i>VAX/VMS Command Language User's Guide</i>	AA-DO23C-TE
<i>OpenVMS System Manager's Manual: Essentials</i>	AA-PV5MB-TK
<i>OpenVMS System Manager's Manual: Tuning, Monitoring, and Complex Systems</i>	AA-PV5NB-TK
<i>Guide to VAX/VMS Disk and Magnetic Tape Operations</i>	AA-M539A-TE

Conventions

The following conventions are used in this manual.

italic type

Indicates emphasis and complete manual titles.

NOTE

Provides general information about the current topic.

CAUTION

Provides information to prevent damage to equipment or software.

1

Introduction

1.1 RRD43 General Description

The RRD43 compact disc drive is a read-only device that can read information from industry standard 600 MB compact discs. The compact disc is inserted directly into the drive.

1.2 Drive Specifications

Table 1–1 contains the specifications for the RRD43 compact disc drive and a list of add-on option numbers for the BA400-based VAX 4000 system.

Table 1–1 RRD43 Disc Drive Specifications

Overview

Description	Half-height optical CD-ROM disc drive
Features	Photo CD capable/ can be used as an independent audio CD player
Media	Removable 5 1/4-inch compact disc
Capacity	600 MB
Form factor	5 1/4 in (1-inch high)
Average access time	320 ms
Transfer rate	1X: 150 KB, 2X: 300 KB
Rotational speed	1X: Inner track = 530 rpm/Outer track = 200 rpm 2X: Inner track = 1060 rpm/Outer track = 400 rpm

(continued on next page)

Table 1–1 (Cont.) RRD43 Disc Drive Specifications**Overview**

Temperature	5°C (41°F) – 50°C (122°F) (operating) -10°C (14°F)—65°C (149°F) (nonoperating)
Relative humidity	8%–80%
Voltage	+5 VDC $\pm$ 5%
Current	1X—+5 V: 950 mA; 2X—+5 V: 1.0 A
Power	<7 W @ 5 V (maximum)

Add-On Option Part Number

RRD43–JF	Field embedded RRD43 disc drive with mounting assembly for the BA400-based VAX 4000 system.
RRD43–FB	Tabletop RRD43 disc drive with cable kit and U.S. power cord.
RRD43–DH	Tabletop RRD43 disc drive with cable kit. Requires country-specific power cord.

Field Replacable Units and Options

RRD43 drive	RRD43–AB
Test disc	30–23507–03

2

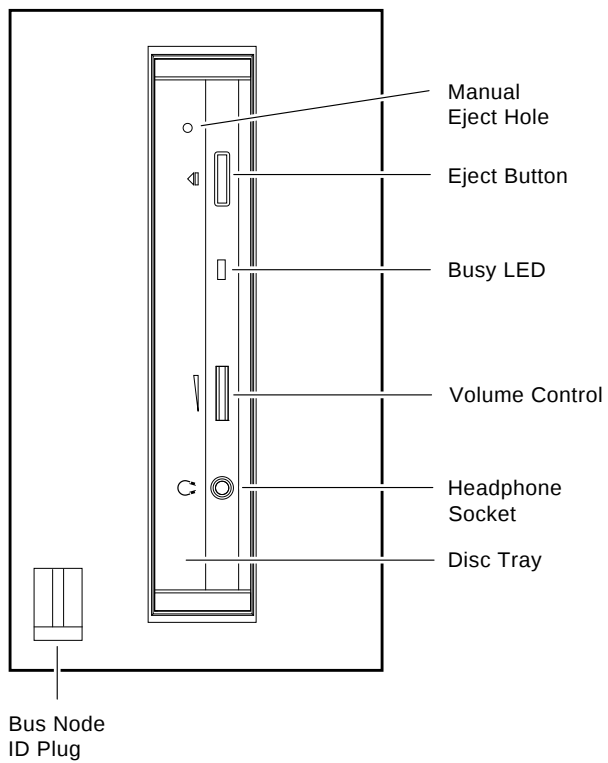
Operation

The following sections describe the RRD43 controls and indicators, how to insert a compact disc into the drive, how to remove a compact disc from the drive, and how to manually eject a compact disc from the drive.

2.1 RRD43 Controls and Indicators

The front panel of the RRD43 compact disc drive contains the disc tray and has an eject button, a busy LED, and a manual eject hole. The front bezel also contains a bus node ID plug. Figure 2–1 shows the front panel of the RRD43 compact disc drive.

Figure 2-1 RRD43 Compact Disc Drive Front Panel



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Table 2–1 lists and describes the controls and indicators on the RRD43 front panel.

Table 2–1 RRD43 Controls and Indicators

Control/Indicator	Description
Bus node ID plug	Identifies the bus node ID number (unit number) of the drive to the system.
Manual eject hole	Use the manual eject hole to manually eject the disc tray if a power failure occurs (see Section 2.4).
Eject button	Press this button to eject the disc tray from the RRD43.
Busy LED	This LED turns on when data is read from the disc. It flashes during seek operations.
Disc tray	Holds the compact disc.
Volume control and headphone socket	Not used.

2.2 Inserting a Compact Disc into the RRD43 Disc Drive

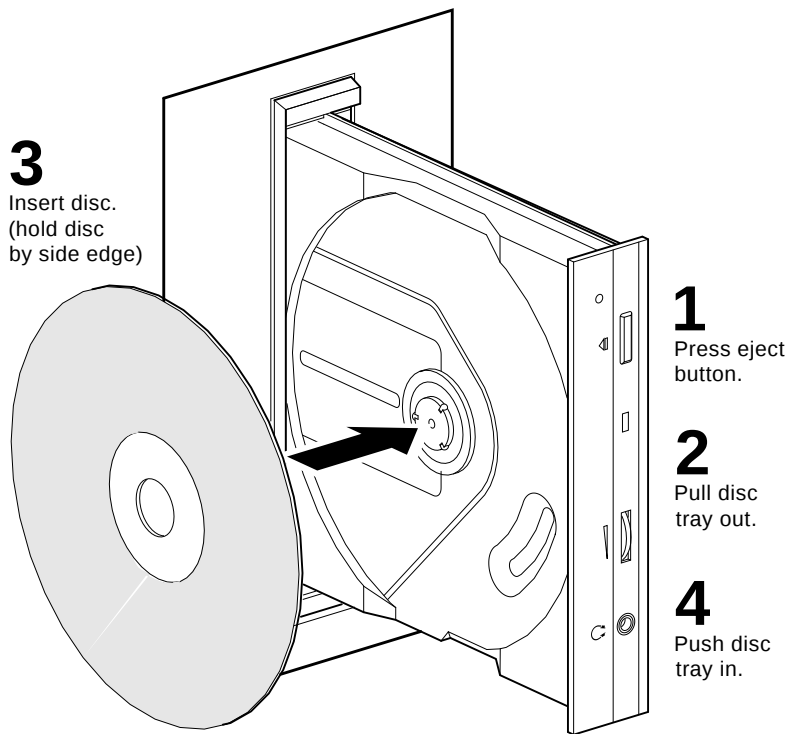
To insert a disc in the RRD43, see Figure 2–2 and follow these steps.

1. Press the eject button inward to release the disc tray.
2. The tray will eject part way out; pull the tray out manually to its full extension
3. Pick up the disc by the edges; taking care not to touch the bottom (unlabelled) side of the disc with any part of your hand or fingers (hold by the side edge and push into place in the disc tray). Insert the disc into the tray with the disc label facing to the left.
4. Push the disc tray back into the RRD43 until it is completely inserted and latched.

The busy LED stays on for a few seconds. When the busy LED goes off, the RRD43 can receive commands and you can read data from the compact disc.

If the disc is upside-down, not properly inserted in the tray, or if other conditions prevent the RRD43 from reading the disc, the busy LED will blink, then stay on steadily.

Figure 2-2 Inserting a Disc in the RRD43



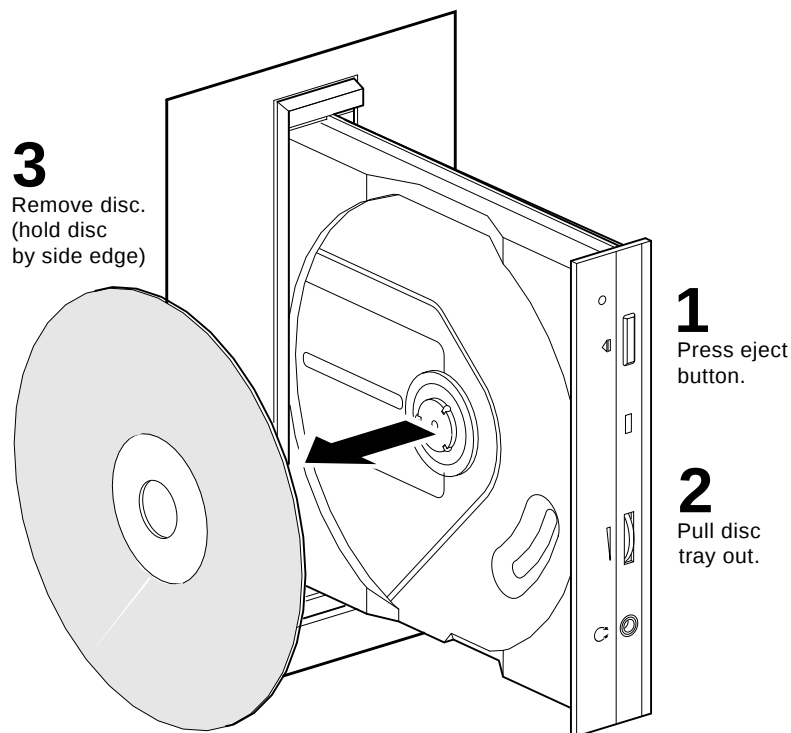
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2.3 Removing the Disc from the RRD43

To remove a disc from the RRD43, see Figure 2–3 and follow these steps.

1. Press the eject button inward to release the disc tray.
2. The tray will eject part way out; pull the tray out manually to its full extension.
3. Remove the disc from the tray; pick up the disc by the edges, taking care not to touch the bottom (unlabelled) side of the disc with any part of your hand or fingers (hold by the side edge and remove from the disc tray).
4. Push the disc tray back into the RRD43 until it is completely inserted and latched.

Figure 2–3 Removing a Disc from the RRD43



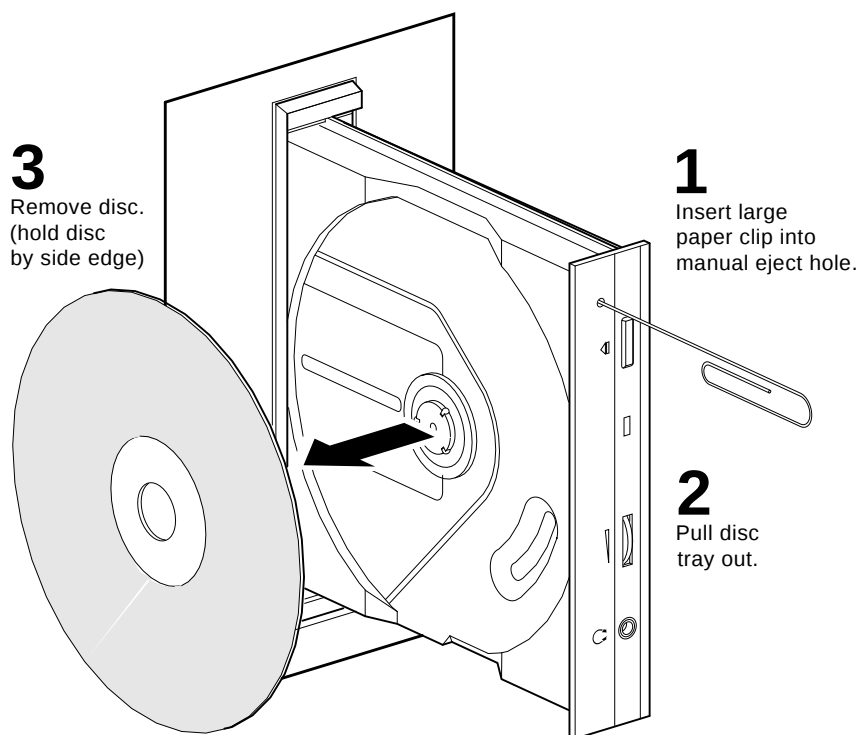
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2.4 Removing a Disc Manually

To remove a disc manually from the RRD43, in the event of a power failure for example, set the on/off switch on the system unit to the off (O) position then see Figure 2-4 and follow these steps:

1. Insert a straightened large paper clip or metal rod, 1.2 millimeters (mm) (0.047 inches) in diameter and not less than 35 mm (1.38 in.) long, into the emergency eject hole and push the clip or rod in until the disc tray disengages.
2. Pull the tray out manually to its full extension.
3. Remove the disc from the tray; pick up the disc by the edges, taking care not to touch the bottom (unlabelled) side of the disc with any part of your hand or fingers (hold by the side edge and remove from the disc tray).
4. Push the disc tray back into the RRD43 until it is completely inserted and latched.

Figure 2-4 Removing a Disc Manually



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Thank you for your assistance.

I rate this manual's:	Excellent	Good	Fair	Poor
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Completeness (enough information)	☐	☐	☐	☐
Clarity (easy to understand)	☐	☐	☐	☐
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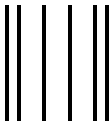
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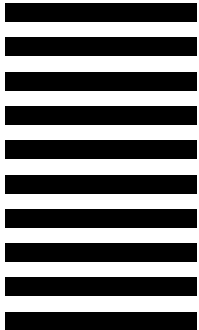


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