DECpc

1.44-MB 3½-Inch Diskette Drive Installation Guide

Order Number: EK–7XRAA–IA. A02

Digital Equipment Corporation
Maynard, Massachusetts

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Package Contents

The 1.44-MB diskette drive kit contains the following items:

Item	Order Number
Diskette drive	RX23L (either a Teac FD–235HF or a Mitsubishi MF355F)
Screws (4), M3 × 5-mm	90–40217–01

Before You Start

Read the following installation instructions. If you are unsure about your ability to install the drive, you can contact Digital Services to hire a Digital Services technician to install the drive for you.

This diskette drive cannot be used with early DECstation computers that have model numbers beginning with PC4.

Example:

You cannot use the diskette drive with model PC461–82. To check your computer's model number, look on the rear or the bottom of the computer.

Caution

Static electricity can destroy the circuits on the drive's circuit board. Discharge static electricity by touching the drive's metal frame before touching the circuit board.

Jumper Settings

The jumpers are set at the factory for proper operation on personal computers. Figure 1 shows the default jumper settings for the Teac FD–235HF diskette drive and Table 1 describes the jumpers. Figure 2 shows the default settings for the Mitsubishi MF355F diskette drive and Table 2 describes the jumpers.

Figure 1 Jumper Settings for Teac FD–235HF Diskette Drive

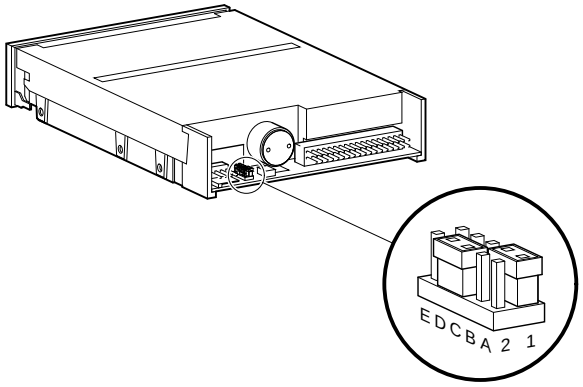

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Table 1 Jumper Descriptions for Teac FD–235HF Diskette Drive

Jumper	Function
A1 to B1	Drive select 1 (default: installed)
A2 to B2	Drive select 0
C2 to D2	Automatic density select (default: installed)
D2 to E2	Density set by signal line 2 (HD IN)
E2 to E1	Automatic density select with current density setting reported on signal line 2 (HD OUT)

Figure 2 Jumper Settings for Mitsubishi MF355F Diskette Drive

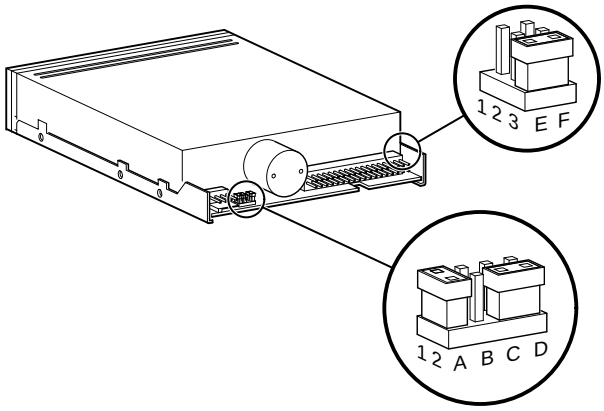

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Table 2 Jumper Descriptions for Mitsubishi Drive

Jumper	Function
C1 to D1	Drive select 0
C2 to D2	Drive select 1 (default)
B1 to C1	Drive select 2
B2 to C2	Drive select 3

Jumpers	Density Control	Signal on Data Line 2	Output Signal Data Line 34
A1 to A2, E3 to F3, E1 to F1	Automatic	None	Disk change
A1 to A2, E3 to F3	Automatic	None	None
A1 to A2, E3 to F3, E1 to E2	Automatic	None	Standard ready
A1 to A2, E3 to F3, F1 to F2	Automatic	Disk change (output)	None
A1 to A2, E3 to F3, E2 to F2	Automatic	Standard ready (output)	None
A1 to A2, E3 to F3, E1 to E2, F1 to F2	Automatic	Disk change (output)	Standard ready

(continued on next page)

Table 2 (Cont.) Jumper Descriptions for Mitsubishi Drive

Jumpers	Density Control	Signal on Data Line 2	Output Signal Data Line 34
A1 to A2, E3 to F3, E1 to F1, E2 to F2	Automatic	Standard ready (output)	Disk change
A1 to A2	External	(Input—Density) Hi—2M Low—1M	None
A1 to A2, E1 to F1	External	Hi—2M Low—1M	Disk change
A1 to A2, E1 to E2	External	Hi—2M Low—1M	Standard ready
E3 to F3	External	Hi—1M Low—2M	None
E3 to F3, E1 to F1	External	Hi—1M Low—2M	Disk change
E3 to F3, E1 to E2	External	Hi—1M Low—2M	Standard ready

Installing the Drive

To install your drive, perform the following steps:

1. Set the correct drive jumper settings. See the previous sections for configuration information.
2. Turn off your computer and disconnect the power cord.
3. Remove the computer cover and locate the drive bay. See the computer user information for instructions.

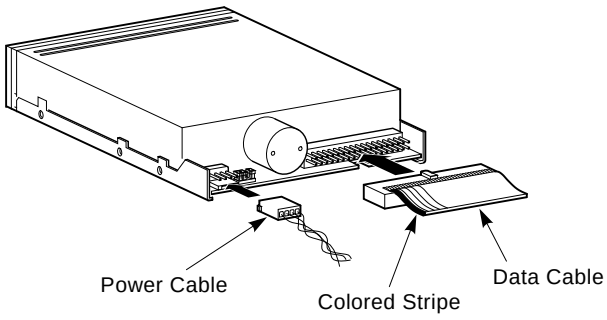
Note

Depending on the layout of your computer, you may find it easier to connect the cables (step 4) before you mount the drive in the bay.

4. Mount the drive in a drive bay. See the computer user information for drive mounting instructions.

5. Connect the data cable and the power cable (Figure 3). Be sure to orient the data cable correctly, with the colored stripe as shown.

Figure 3 Connecting Cables



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6. Run the system setup utility to enter parameters about your new drive. Refer to your computer user's guide for information about the setup utility.
7. Reboot your computer.

Specifications

Characteristic	Teac Drive	Mitsubishi Drive
Media	3½-inch, high-density (1.44-MB) or standard-density (720-KB) diskettes	
Operating temperature	4° to 52°C (39° to 125°F)	5° to 45°C (41° to 113°F)
Nonoperating temperature	–40° to 65°C (–40° to 149°F)	–40° to 60°C (–40° to 140°F)
Relative humidity		
Operating	20% to 80%	20% to 80%
Nonoperating	5% to 95%	5% to 95%