Dell™ Systems

SCSI Backplane Installation Guide

SCSI 背板安装指南

Guide d'installation du fond de panier SCSI

Installationsanleitung für die SCSI-Rückwand

SCSI バックプレーン取り付けガイド

SCSI 후면판 설치 안내서

Tarjeta SCSI Guía de instalación

DELL™

Notes, Notices, and Cautions

✐ **NOTE:** A NOTE indicates important information that helps you make better use of your computer.

⬲ **NOTICE:** A NOTICE indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

⚠ **CAUTION: A CAUTION indicates a potential for property damage, personal injury, or death.**

This document provides instructions for installing a SCSI backplane kit in your system to add support for SCSI hard drives.

The kit contains the following components:

- A SCSI backplane assembly
- A replacement diskette drive interface cable
- A replacement CD drive interface cable
- A power cable (*not used*)

You may also have optional SCSI hard drives to install with your SCSI backplane kit.

To install the kit, you will perform the following steps:

- Remove the cooling fan assembly.
- Remove the CD and diskette drive interface cables used in the IDE configuration.
- Remove the IDE hard drives.
- Install the SCSI backplane assembly.
- Install the CD and diskette drive interface cables used in the SCSI configuration.
- Install the cooling fan assembly.
- Install the SCSI hard drives.

Installing the SCSI Backplane

⚠ **CAUTION: Only trained service technicians are authorized to remove the system cover and access any of the components inside the system. Read and follow all safety precautions in your *System Information* document.**
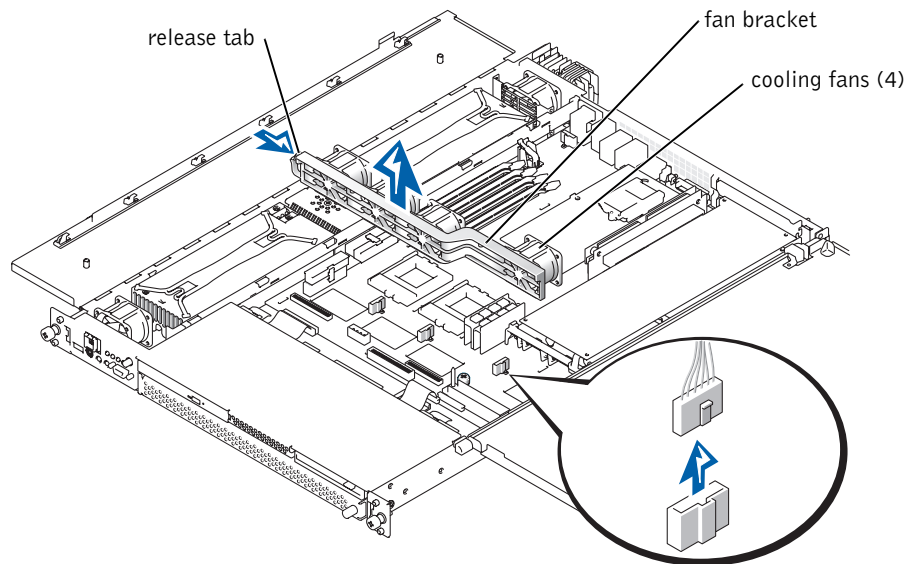
⚠ **CAUTION: See "Protecting Against Electrostatic Discharge" in the safety instructions in your *System Information* document.**

1 Turn off the system, including any attached peripherals, and disconnect the system from the electrical outlet.

2 Unpack the backplane kit.

3 Remove the front bezel from the system, if attached (see "Removing and Replacing the Front Bezel" in your *Installation and Troubleshooting Guide)*.

4 Open the system doors (see "Opening the System Doors" in your *Installation and Troubleshooting Guide)*.

5 Remove the cooling fan assembly (see Figure 1-1):

   a Disconnect the fan power cable from the system board for each cooling fan mounted on the fan bracket.

   Do not remove the fans from the bracket.

   b Press the fan bracket release tab and lift the fan bracket out of the system.

Figure 1-1.   Removing the Cooling Fan Assembly

release tab

fan bracket

cooling fans (4)

6 Disconnect the CD drive interface cable from drive and the system board connector (see Figure 1-2).
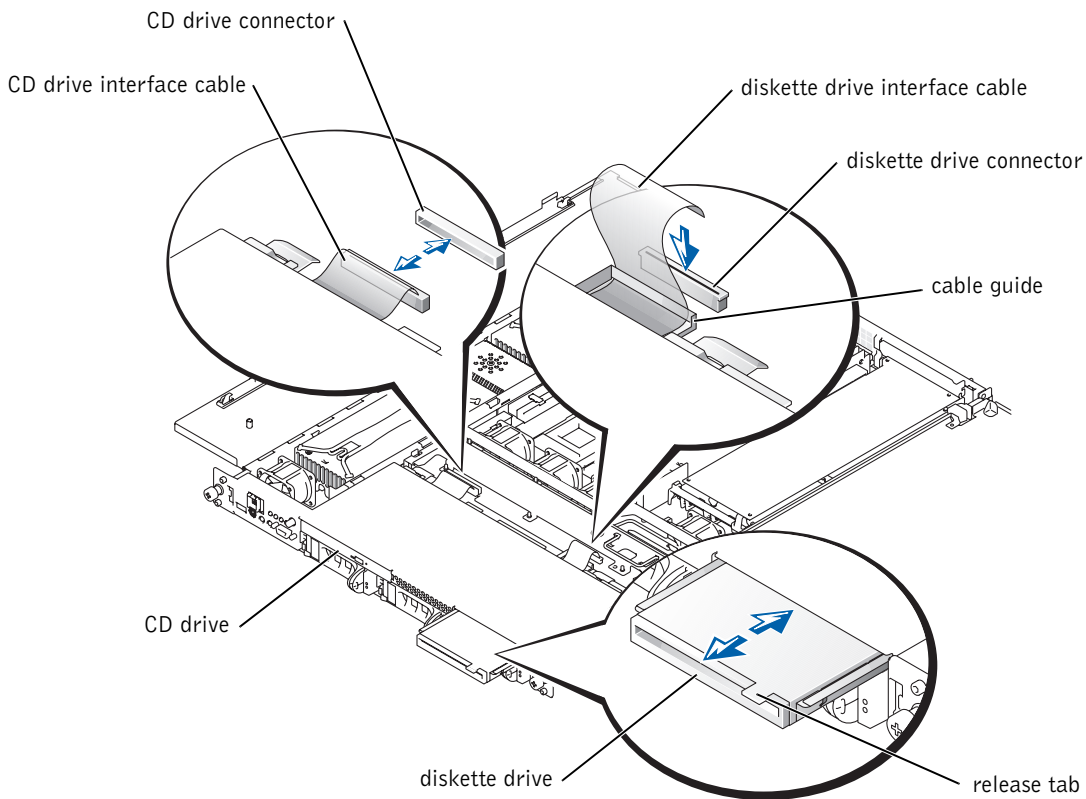
   To identify system board connectors, see "Jumpers and Connectors" in your *Installation and Troubleshooting Guide*.

   A replacement interface cable will be used with the SCSI backplane.

7 Remove the diskette drive (see Figure 1-2):

    a Disconnect the diskette drive interface cable from the system board connector.

       To identify system board connectors, see "Jumpers and Connectors" in your *Installation and Troubleshooting Guide*.

    b Push down on the drive release tab and slide the drive out of the peripheral bay.

    c Disconnect the diskette drive interface cable from the diskette drive.

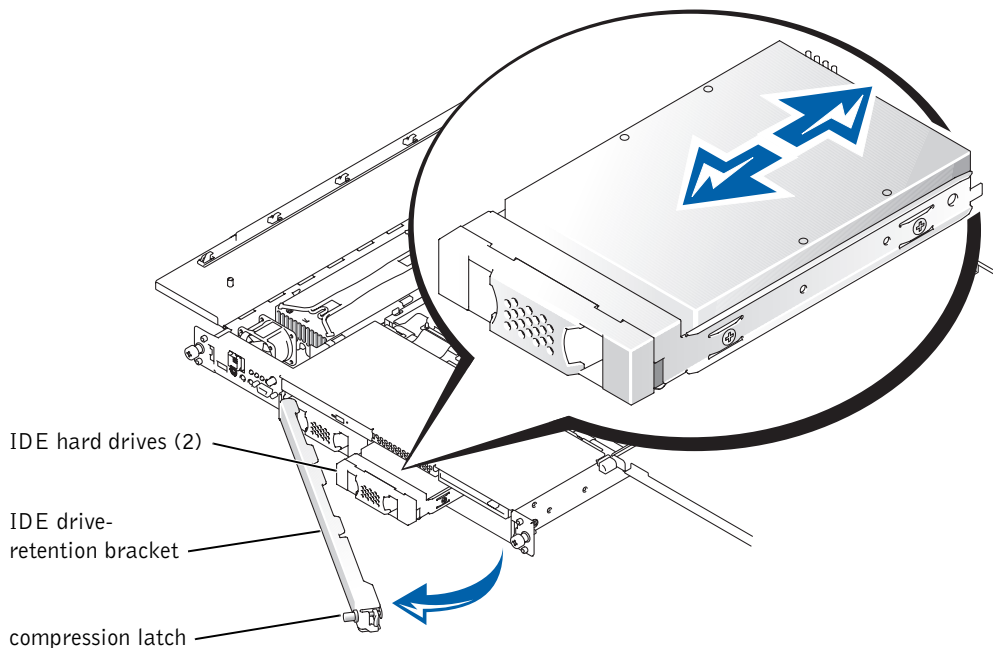   A replacement interface cable will be used with the SCSI backplane.

Figure 1-2. Removing and Installing the CD and Diskette Drives

NOTE: Figure 1-2 shows the SCSI backplane and hard drives installed. The cable connectors work identically in both the IDE and SCSI configurations. To identify system board or SCSI backplane connectors, see "Jumpers and Connectors" in your *Installation and Troubleshooting Guide.*
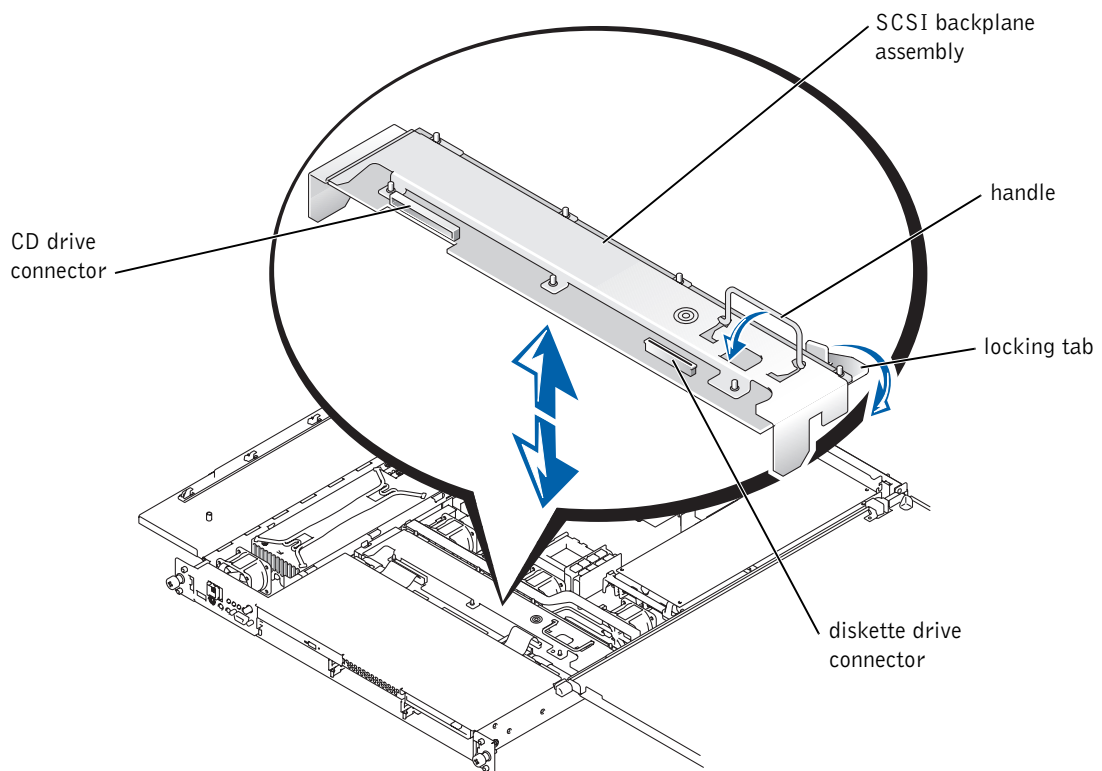
8 Remove the IDE drive-retention bracket (see Figure 1-3):

   a Loosen the compression latch that secures the IDE drive-retention bracket to the chassis.

   b Rotate the right end of the drive-retention bracket away from the system's front panel.

   c Lift the bracket away from the system.

9 Remove the IDE hard drives (see Figure 1-3):

   a Disconnect the IDE data cable from each drive and from the IDE connector on the system board.

   b Disconnect the IDE power Y-cable from each drive and from the power connector on the system board.

   c Remove the IDE hard drives from the drive bays.
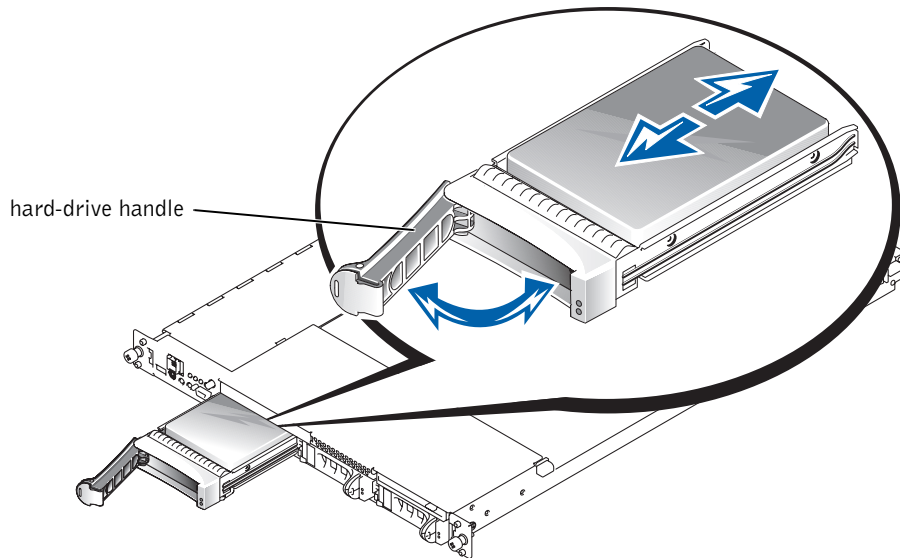
Figure 1-3. Removing the IDE Hard Drives

IDE hard drives (2)

IDE drive-retention bracket

compression latch

10 Install the SCSI backplane assembly (see Figure 1-4):

   a Align the retention tab on the SCSI backplane assembly with the slot in the chassis side wall.

   b Using the SCSI backplane assembly handle, lower the assembly into the chassis until it is firmly seated.

   c Rotate the backplane assembly handle down.

   d Rotate the backplane assembly locking tab toward the chassis side wall to secure the backplane in the chassis.

Figure 1-4.   Installing the SCSI Backplane Assembly

CD drive connector

SCSI backplane assembly

handle

locking tab

diskette drive connector

11 Install the diskette drive (see Figure 1-2):

   a Connect the new diskette drive interface cable to the diskette drive.

      The cable is labeled to indicate which end connects to the drive.

   b Insert the drive cable through the cable guide.

   c Slide the diskette drive into the peripheral bay.

      Ensure that you do not damage the cable at the back of the drive.

   d Connect the new diskette drive interface cable to the SCSI backplane connector.

      To identify the SCSI backplane connectors, see Figure 1-4.

12 Connect the new CD drive interface cable to the CD drive and to the SCSI backplane connector (see Figure 1-2).

To identify the SCSI backplane connectors, see Figure 1-4.

13 Replace the cooling fan assembly:

   a Align the retention tab on the fan assembly with the slot in the chassis side wall.

   b Lower the fan assembly into the chassis until the release tab snaps into place (see Figure 1-1).

      Ensure that each fan is recessed in its cavity in the system board.

   c For each cooling fan mounted on the fan bracket, connect the power cable to the system board connector.

14 Close the system doors (see "Opening the System Doors" in your *Installation and Troubleshooting Guide*).

15 Install the SCSI hard drives (see Figure 1-5):

   a Open the hard-drive handle.

   b Insert the hard drive into the drive bay.

   c Close the hard-drive handle to lock the drive in place.

Figure 1-5.   Installing a SCSI Hard Drive

hard-drive handle

16 Replace the front bezel on the system (see "Removing and Replacing the Front Bezel" in your *Installation and Troubleshooting Guide*).

17 Reconnect the system to its electrical outlet and turn the system on, including any attached peripherals.

18 Install any required SCSI device drivers (see "Installing and Configuring SCSI Drivers" in your *User's Guide*).

19 Run the **SCSI Controllers** test in the system diagnostics (see "Running the System Diagnostics" in your *Installation and Troubleshooting Guide*).