

Dell™ Systems

# Installing the SCSI Backplane Daughter Card

# 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.

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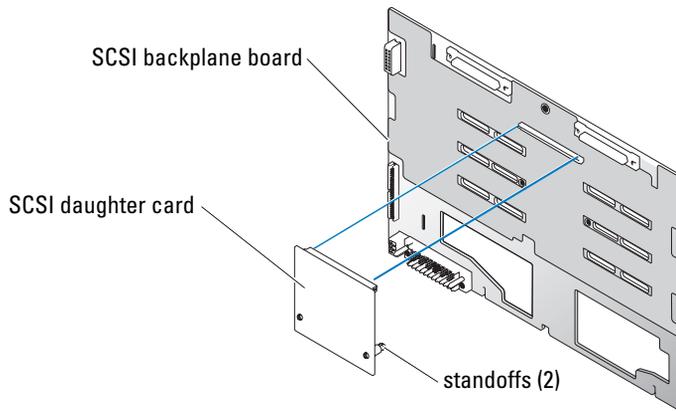
This document provides information about how to configure the split SCSI backplane in your Dell™ PowerEdge™ 2800 or 2850 system by installing a backplane daughter card. In a split backplane configuration, the hard-drives are arranged in two separate groups of drives.

 **CAUTION:** Only trained service technicians are authorized to remove the system cover and access any of the components inside the system. See your *Product Information Guide* for complete information about safety precautions, working inside the computer, and protecting against electrostatic discharge.

 **NOTE:** See your *Installation and Troubleshooting Guide* for detailed instructions on removing or replacing components.

## Installing the SCSI Backplane Daughter Card in a PowerEdge 2800 System

- 1 Remove the bezel (if applicable).
- 2 Unpack the SCSI backplane daughter card kit.
- 3 Turn off the system, including any attached peripherals, and disconnect the system from the electrical outlet.
- 4 Open the system.
- 5 Slide the drive tray to the maintenance position.
  - a Use a #2 Phillips screwdriver to loosen the captive screw that secures the drive tray release handle to the chassis.
  - b Rotate the drive tray release lever toward the front of the system.
  - c Grasp both sides of the front panel and slide the drive tray forwards until the tray is in the maintenance position.
- 6 Hold the daughter card by its edges with the card connector facing the SCSI backplane board.
- 7 Insert the card connector into the daughter card connector on the SCSI backplane board. Ensure that the standoffs on the daughter card are fully seated into the SCSI backplane board. See Figure 1-1.

**Figure 1-1. Installing the SCSI Daughter Card**

- 8** To use the optional integrated ROMB controller in a split 2 x 4 backplane configuration:
  - a** Connect channel A on the riser card to SCSCIA on the SCSI backplane. This channel controls the boot drive (drive 0) and drives 1, 2, and 3.
  - b** Connect SCSI channel B on the riser card to connector SCSCIB on the SCSI backplane. This channel controls drives 4, 5, 8, and 9.

To use an optional RAID controller card in a split 2 x 4 backplane configuration:

- a** Connect SCSI channel A (channel 0) on the controller card to connector SCSCIA on the SCSI backplane. This channel controls the boot drive (drive 0) and drives 1, 2, and 3.
  - b** Connect SCSI channel B (channel 1) on the controller card to connector SCSCIB on the SCSI backplane. This channel controls drives 4, 5, 8, and 9.
- 9** Slide the drive tray back into the operating position.
    - a** Grasp both sides of the front panel and slide the drive tray backwards until the tray is in the operating position.
    - b** Rotate the drive tray release lever toward the back of the system.
    - c** Use a #2 Phillips screwdriver to tighten the captive screw that secures the drive tray release handle to the chassis.
  - 10** Close the system.
  - 11** Reconnect the system to its electrical outlet and turn the system on, including any attached peripherals.
  - 12** Enter System Setup to ensure that the RAID or SCSI controller card is configured correctly. See your system's *User's Guide* for more information.
  - 13** Replace the bezel (if applicable).

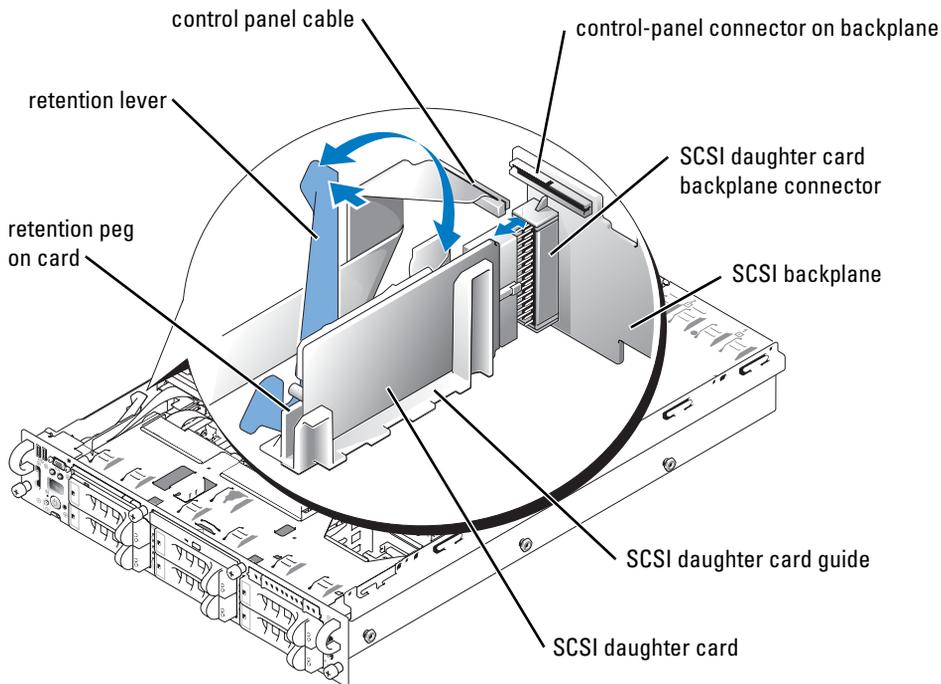
# Installing the SCSI Backplane Daughter Card in a PowerEdge 2850 System

- 1 Unpack the SCSI backplane board daughter card kit.
- 2 Turn off the system, including any attached peripherals, and disconnect the system from the electrical outlet.
- 3 Remove the bezel (if applicable).
- 4 Open the system.
- 5 Grasp the plastic tab on the back of the control panel cable and pull the cable connector away from the backplane connector. See Figure 1-2.

 **NOTE:** If you pull on the control panel cable harness, you may damage the harness.

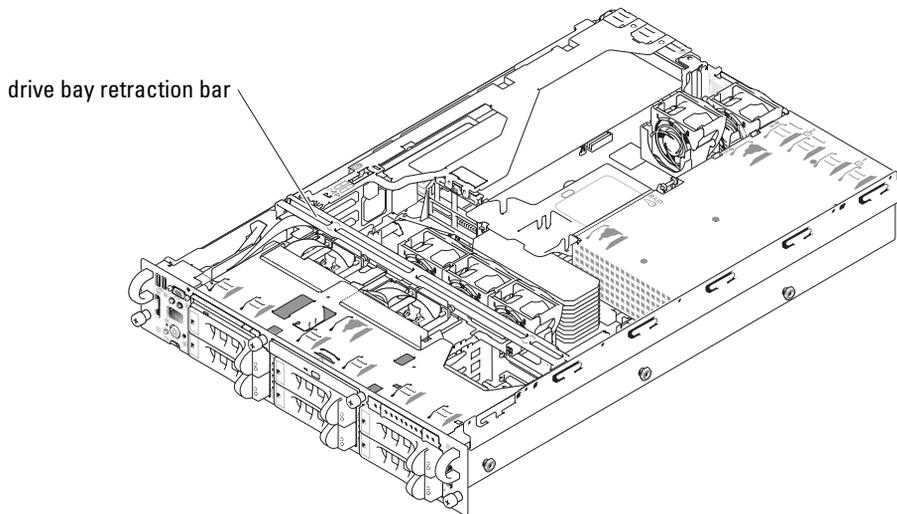
The SCSI backplane daughter card connector and card guide are located in the compartment below the control panel cable.

**Figure 1-2. Installing a SCSI Backplane Daughter Card**



- 6 The daughter card fits between the sides of the card guide. To install the daughter card in the card guide and to connect it to the backplane connector:
  - a Ensure that the retention lever is in the open position.
  - b Hold the daughter card by its edges with the card connector facing the SCSI backplane and the retention peg facing the retention lever. See Figure 1-2.
  - c Lower the card into the card guide.
  - d Close the retention lever to slide the daughter card into the SCSI backplane connector and lock the card into place. See Figure 1-2.
- 7 Rotate the drive bay retraction bar toward the front of the system. See Figure 1-3.

**Figure 1-3. Drive Bay Retraction Bar**



- 8 Reconnect the control panel cable to its backplane connector. See Figure 1-2.
- 9 To use the optional integrated ROMB controller in a split backplane configuration:
  - a Connect channel A on the riser card to SCSI A on the SCSI backplane. This channel controls the boot drive (drive 0) and drive 1.
  - b Connect SCSI channel B on the riser card to connector SCSI B on the SCSI backplane. This channel controls drives 2 through 5.

To use the optional RAID controller card in a split backplane configuration:

- a** Connect SCSI channel A (channel 0) on the controller card to connector SCSIA on the SCSI backplane. This channel controls the boot drive (drive 0) and drive 1.
- b** Connect SCSI channel B (channel 1) on the controller card to connector SCSIB on the SCSI backplane. This channel controls drives 2 through 5.



**NOTE:** If a cable is connected to the SCSIB backplane connector, the SCSI backplane daughter card must be installed to activate the 2/4 split backplane configuration. Otherwise, the system will display an error message.

- 10** Rotate the drive bay retraction bar toward the back of the system.
- 11** Close the system.
- 12** Enter System Setup to ensure that the RAID or SCSI controller card is configured correctly. See your system's *User's Guide* for more information.
- 13** Replace the bezel (if applicable).