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# LSI 8344 8-port SAS RAID controller card installation

## Overview

### Introduction

This document describes how to install the LSI 8344 8-port SAS RAID controller card in your workstation.

### Kit contents

This kit includes the following components:

**Table 1 Kit contents**

Kit Contents
8-port SAS RAID controller card
Data cable with 90-degree connectors
CD with software drivers and manufacturer's documentation
Hard disk drive activity LED cable
Installation instructions
Warranty

### Tools required












No tools are required for this assembly.



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## Warnings and cautions

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-  **WARNING!**  Any surface or area of the equipment marked with this symbol indicates the presence of a hot surface or hot component. If this surface is contacted, the potential for injury exists. To reduce the risk of injury from a hot component, enable the surface to cool before touching.
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-  **WARNING!**  Any surface or area of the equipment marked with this symbol indicates the presence of an electrical shock hazard. To reduce the risk of injury from electrical shock, do not open any enclosed area marked with this symbol.
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-  **WARNING!** To reduce the risk of electric shock or damage to your equipment:
- Do not disable the power cord grounding plug. The grounding plug is an important safety feature.
  - Plug the power cord in a grounded (earthed) outlet that is easily accessible at all times.
  - Disconnect power from the equipment by unplugging the power cord from the electrical outlet.
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-  **WARNING!** To reduce the risk of serious injury, read the *Safety & Comfort Guide*. It describes proper workstation setup, posture, health, and work habits for computer users, and provides important electrical and mechanical safety information. This guide is located at <http://www.hp.com/ergo> and on the documentation CD (if one is included with the product).
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-  **WARNING!** If a product is shipped in packaging marked with this symbol, , the product must always be lifted by two persons to avoid personal injury due to product weight.
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-  **CAUTION:** Static electricity can damage the electronic components of the workstation. Before beginning these procedures, be sure you discharge static electricity by briefly touching a grounded metal object.
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-  **CAUTION:** To prevent damage to the workstation, observe the following Electrostatic Discharge (ESD) precautions while performing the system parts removal and replacement procedures:
- Work on a static-free mat.
  - Wear a static strap to ensure that any accumulated electrostatic charge is discharged from your body to the ground.
  - Create a common ground for the equipment you are working on by connecting the static-free mat, static strap, and peripheral units to that piece of equipment.
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-  **NOTE:** HP accessories are for use in HP Workstation products. They have been extensively tested for reliability and are manufactured to high quality standards.
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# Step 1—Preparing the workstation

## Introduction

This section describes how to prepare your workstation for disassembly.

## Procedure: preparing the workstation for disassembly

To prepare the workstation for component installation:

Step	Action
1	Power down the workstation.
2	Disconnect power from the workstation.
3	Open the access cover.

## References

Your workstation documentation includes instructions for disassembling and preparing the workstation for installation.

For product-specific information, see the *Service and Technical Reference Guide* for your HP workstation at [http://www.hp.com/support/workstation\\_manuals](http://www.hp.com/support/workstation_manuals).

# Step 2—Installing the 8-port SAS RAID controller card

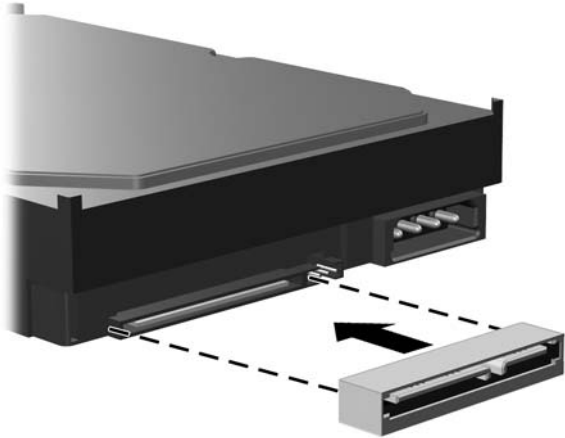
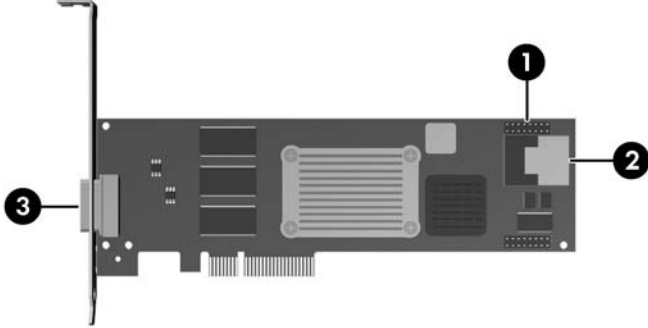
## Introduction

This section describes how to install the 8-port SAS RAID controller card.

## Procedure: installing the 8-port SAS RAID controller card

To install the card:

Step	Action
1	Release the PCI retainer levers by first pressing down on them and then out (1), and remove the applicable PCI slot cover (2).
2	Install the 8-port SAS RAID controller card into an unused x4, x8, or x16 PCI Express slot in the chassis. Refer to the service label on the access panel of your workstation to identify the PCI slots.

Step	Action
3	<p>Attach the SAS adapter supplied with the HP workstation SAS hard drive to the data connector on the rear of the SAS hard drive.</p> 
4	<p>In preparation for cable connection, identify the 8-port controller card connectors. The LED cable connector (1), the internal data connector (2), and the external data connector (3) are shown in the following figure.</p> 
5	<p>Attach one end of the appropriate data cable supplied with the controller card kit to internal connector 1 on the 8-port SAS RAID controller card (1). Attach the four splitter cables on the other end of the data cable to the data cable connectors on the hard drives (2). Your workstation may look different than the one shown.</p>

Step	Action
	
6	<p>Attach one end of the hard drive activity LED cable to the 8-port SAS RAID controller card (1). Attach the other end of the hard drive activity LED cable to the hard drive LED activity connector on the system board (2). (An HP xw6000 series workstation system board is shown below for reference.)</p> <p><b>NOTE:</b> See the service label on your workstation access panel to locate the hard drive activity LED connector on your system board. If your system board has a 4-pin connector for the hard drive activity LED cable, connect the cable to the two inner pins.</p> 

## Step 3—Reassembling the workstation

After installing the 8-port SAS RAID controller card, use the instructions in your workstation documentation to reassemble the workstation. Reassembly includes reinstalling the side access panel and restoring power to the workstation.

## Step 4—Loading and setting up driver software

For instructions on loading and setting up the SAS drivers for use with your workstation, refer to the manufacturer's documentation on the CD shipped with the 8-port SAS RAID controller card.

