Sun StorEdge™ 3000 Family Rack Installation Guide for 2U Arrays

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CHAPTER 1

Mounting the Array in Racks and Cabinets

This document describes mounting Sun StorEdge 3000 Family arrays in supported racks and cabinets. Topics covered in this chapter are:

- "Overview of Rackmount Kits" on page 1-1
- "One-Person Installation Requirements" on page 1-3
- "Reviewing the Tools" on page 1-3
- "Converting Your Front Bezel Locks So the Keys Cannot Be Removed" on page 1-4

1.1 Overview of Rackmount Kits

For late-breaking news about additional supported racks and cabinets, refer to the Release Notes for the model of the array that you are installing. You can find the Release Notes at:

`http://www.sun.com/products-n-solutions/hardware/docs/Network_Storage_Solutions/Workgroup/`

Tip – The instructions in this guide can save you a lot of time if you read them carefully. The entire assembly procedure should take less than thirty minutes if you follow all the instructions provided in this guide.

The following table lists the supported cabinets and racks and other required kits, the rackmount kits that apply to each one, and the location of the installation instructions in this guide.

TABLE 1-1 Supported Cabinets With Associated Rackmount Kits

Supported Cabinet or Rack	Rackmount Kit Needed	Installation Instructions
Sun StorEdge 72-inch Expansion Cabinet s* SG-XARY030A	XTA-3310-RK-19L	“Mounting in Sun Cabinets” on page 2-1
Sun Fire Cabinets SF-XCAB	XTA-3310-RK-19L	“Mounting in Sun Cabinets” on page 2-1
Sun Rack 900 Cabinet** SR9-XKL038A-IP	XTA-3310-RK-19S	“Mounting in Sun Cabinets” on page 2-1
Telco flushmount racks	XTA-3310-RK-19F	“Flushmount Configuration” on page 3-1
Telco center-of-gravity racks	XTA-3310-RK-19C	“Center-of-Gravity Configuration” on page 3-5

* The Sun StorEdge 72-inch expansion cabinet requires the X9818A door kit for the Sun StorEdge 3000 Family 2U arrays .

**The Sun Rack 900 cabinet also requires the X6825A door kit and the X6835A EMI kit with these arrays.

1.2 One-Person Installation Requirements

Two people should install each array; however, one person can install the array:

- In a Sun cabinet if the rail kit contains rear brackets with flanges that provide support
- In a Telco rack if the person has an appropriate equipment lift that can ensure safety and ease of installation

For a one-person installation, you should remove the power supplies and disk drives to reduce weight and to be safe. If possible, position the array on top of another device or shelf in the rack to hold the unit as you attach all the brackets.

Caution – If you have only one person to perform the installation in a Sun cabinet and do not have rear brackets with flanges or special equipment lift, you must remove the power supplies and hard disk drives from the array before installing the array in a rack.

To reduce the weight of the array during the rackmounting procedure, refer to the *Sun StorEdge 3000 Family FRU Installation Guide* for your array, and follow instructions on removing drives and power supplies. A fully populated array weighs over 50 pounds; an array without drives and power supplies weighs about 30 pounds.

1.3 Reviewing the Tools

The following tools are used to complete this procedure:

- Medium Phillips screwdriver
- Allen wrench (provided; used with 6-mm screws and #12-24 x 3/8-inch sockethead screws)

Caution – Do not use any power tools with any procedures. Power tools can strip or damage connections.

1.4 Converting Your Front Bezel Locks So the Keys Cannot Be Removed

The bezel on your array has two locks whose keys can be removed when the locks are in either the locked or open position. It is possible to reconfigure the locks so that the keys cannot be removed. It is most convenient to make this optional change when removing the bezel prior to installing the array in a rack or cabinet.

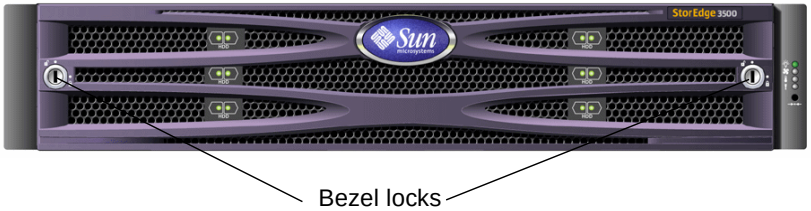

FIGURE 1-1 Front Bezel and Front Bezel Locks of an Array

To change the locks so the keys cannot be removed, follow these steps:

1. **Remove the bezel by gently pivoting the swing arms out of their ear sockets, and make sure the key is in the locked position, with the pawl extending horizontally past the edge of the bezel (see the first panel of** FIGURE 1-2**).**
2. **Hold the key in place and use a 12-mm or 3/8-inch nut driver to remove the locking nut that holds the pawl in place, as shown in the first panel of** FIGURE 1-2**.**

Caution – Be sure to hold the key in place. Otherwise there is a risk of breaking the small tab on the lock that serves as a stop.

3. **Lift the pawl off the threaded part of the lock body, as shown in the second panel of** FIGURE 1-2**.**
4. **Set the pawl aside, face up, so that you can remember its orientation when you replace it.**
5. **Use the key to turn the lock 180 degrees, as shown in the third panel of** FIGURE 1-2
6. **Replace the pawl in the same orientation as before, as shown in the fourth panel of** FIGURE 1-2**.**
7. **Hold the key in place and use the nut driver to refasten the locking nut that holds the pawl in place, as shown in the fifth panel of** FIGURE 1-2**. Be careful not to cross-thread the nut.**

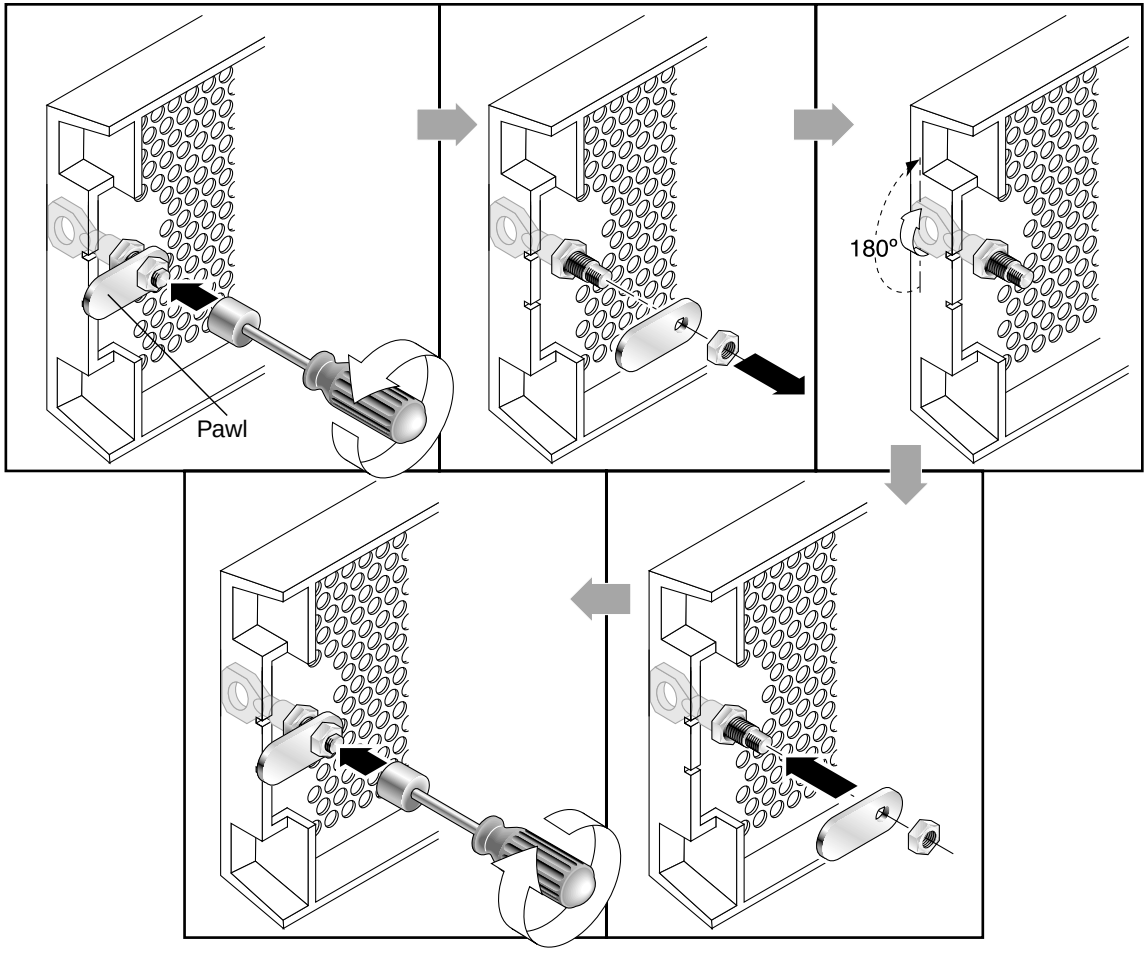

FIGURE 1-2 Sequence of Steps to Change Front Bezel Locks So Keys Cannot Be Removed

Caution – Be sure to hold the key in place. Otherwise there is a risk of breaking the small tab on the lock that serves as a stop.

8. **Replace the bezel.**

Note – To convert your bezel locks back so that the keys can be removed, repeat the preceding steps.

CHAPTER 2

Mounting in Sun Cabinets

This chapter explains how to mount Sun StorEdge™ 3310 SCSI and 3510 Fibre Channel arrays by using adjustable mounting brackets for two depth ranges.

The topics covered are:

- "Overview of Assembly" on page 2-1
- "Installing the Array Into a Cabinet" on page 2-5

2.1 Overview of Assembly

FIGURE 2-1 displays a completed installation of a Sun StorEdge 3000 Family 2U array in a Sun cabinet. Refer to FIGURE 2-2 during installation.

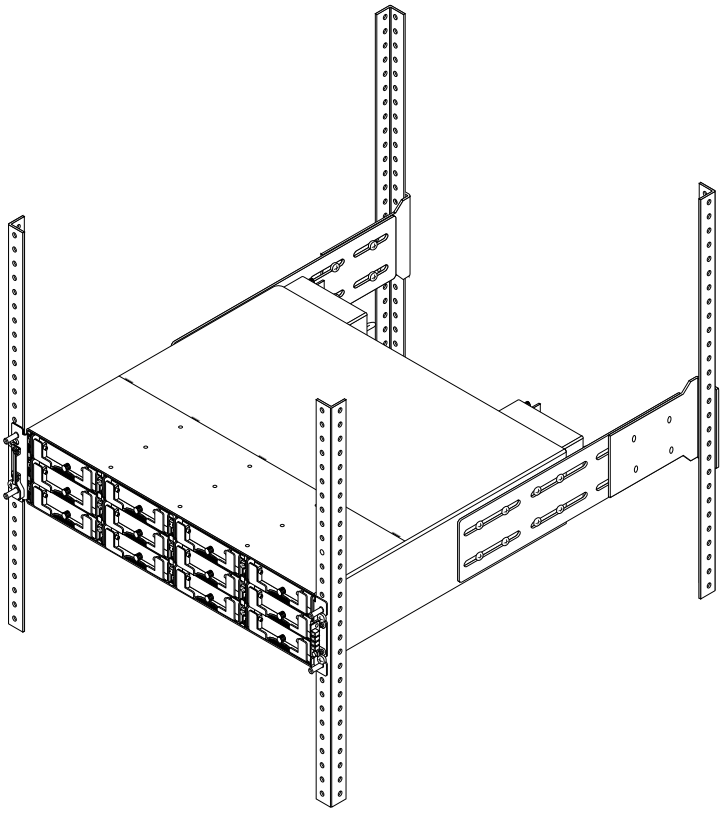

FIGURE 2-1 Rackmounted Cabinet Array With Chassis Ears and Bezels Removed, After Installation

Refer to FIGURE 2-2 during installation.

Note – It is possible for customer-supplied racks to have several sizes of threaded holes. Rackmount kits have several sizes of panhead screws and sockethead screws in order to fit these various racks. Sockethead screws are supplied for the front mounting ears when the diameter of the screw is too large for panhead screws to fit.

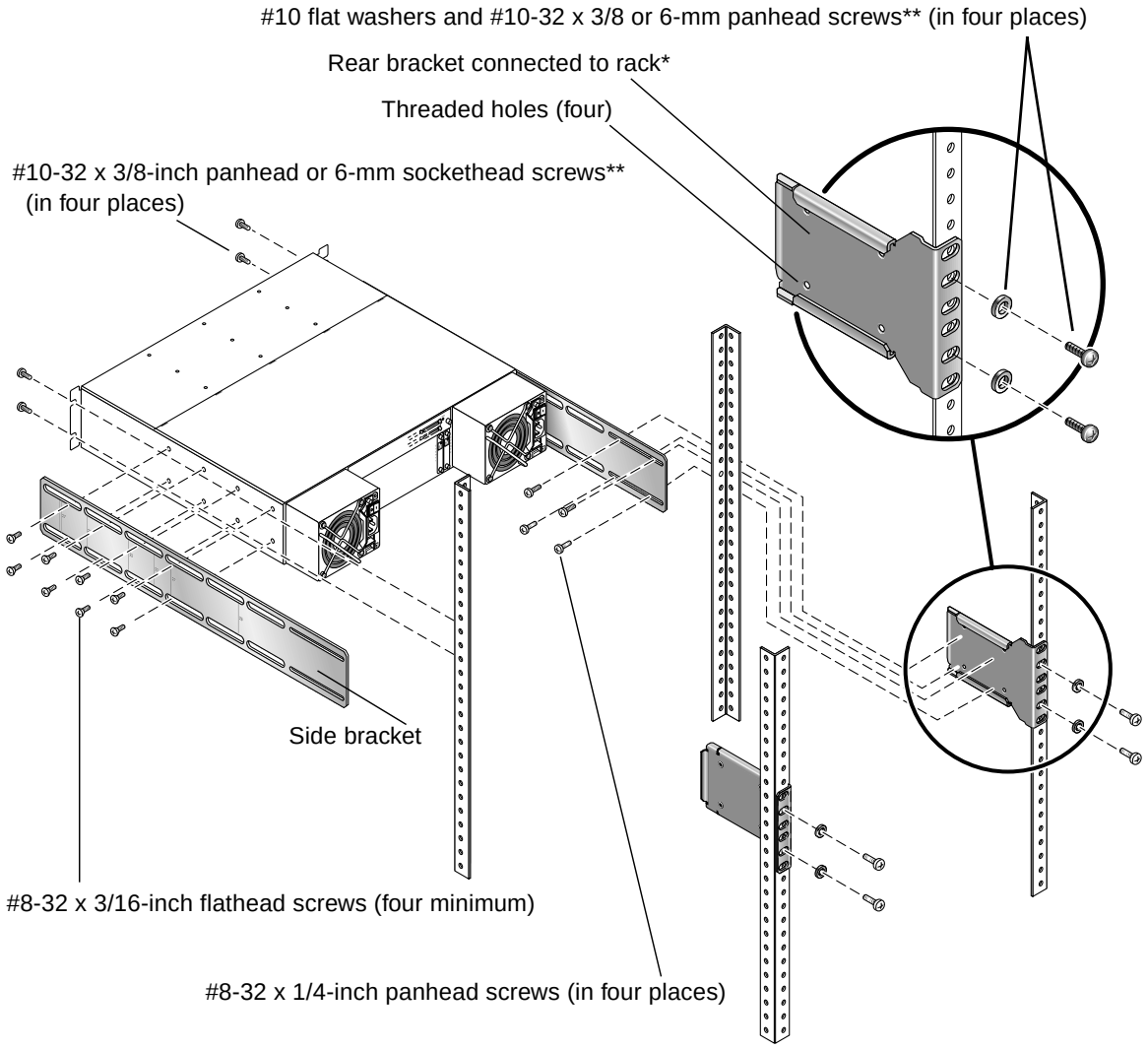

FIGURE 2-2 Cabinet Rackmount (22-Inch to 28-Inch Deep Rack in a Sun Cabinet)

*Flanged rear brackets support the side brackets and enable an easy one-person installation.

**Alternate screws can be used with the appropriate racks: 5-mm panhead screws (front and back), or 6-mm sockethead screws (front) and 6-mm panhead screws (back).

Before mounting the Sun StorEdge array into a 19-inch cabinet, check that you have all the rackmount kit components (TABLE 2-1 or TABLE 2-2) listed for the rack installation kit you are installing.

TABLE 2-1 XTA-3310-RK-19S 595-6573-02 Rack Kit,2U,19-inch Wide, 22–28 Inches Deep (595-6573-02)

Major Components			Fasteners		
Qty.	**Part Number**	**Description**	**Qty.**	**Part Number**	**Description**
2	71-00000552	Side brackets	16	01-00000006	#8 – 32 x 3/16-in. flathead screws
2	71-00000554	Rear brackets	10	01-09010300	#8 – 32 x 1/4-in. panhead screws
	or		10	01-50200300	#10 – 32 x 3/8-in. panhead screws
	71-00000621	Rear brackets with flanges**	10	02-80002300	#10 – flat washers
			4	01-00000083	6-mm sockethead screws
			4	01-00000084	6-mm panhead screws
			10	01-00000093	5-mm panhead screws
1	09-00000064	5-mm Allen wrench for 6-mm sockethead screws			

**The U-shaped flanges support the side brackets and eliminate the need for a second person to support the array while you assemble and tighten the screws.

TABLE 2-2 XTA-3310-RK-19L Rack Kit,2U,19-Inch Wide Cabinet, 28–36 Inches Deep (595-6574-02)

Major Components			Fasteners		
Qty.	**Part Number**	**Description**	**Qty.**	**Part Number**	**Description**
2	71-00000553	Side brackets	16	01-00000006	#8 – 32 x 3/16-in. flathead screws
2	71-00000555	Rear brackets	16	01-09010300	#8 – 32 x 1/4-in. panhead screws
	or		10	01-50200300	#10 – 32 x 3/8-in. panhead screws
	71-00000622	Rear brackets with flanges**	10	02-80002300	#10 washers
			4	01-00000083	6-mm sockethead screws
			4	01-00000084	6-mm panhead screws
			10	01-00000093	5-mm panhead screws
1	09-00000064	5-mm Allen wrench for 6-mm sockethead screws			

**U-shaped flanges support the side brackets and eliminate the need for a second person to support the array while you assemble and tighten the screws.

2.2 Installing the Array Into a Cabinet

Be sure to review “One-Person Installation Requirements” on page 1-3 and “Reviewing the Tools” on page 1-3 before rackmounting the array.

1. **Determine the position at which the array will be installed.**

   Install the first array at the *bottom* of the rack, and install each subsequent chassis above the previous one.

   For additional rack hole information, see “Mounting Holes in the Sun StorEdge 72-Inch Expansion Cabinet” on page A-1.

Note – Keep all hardware items in plastic bags until you are ready to use them. This will enable you to correctly identify the screws and avoid confusion.

---

2. **Before rackmounting, be sure to check your site location and confirm that you have cables with adequate lengths to connect to servers and to power outlets.**

3. **Remove the bezel (the front faceplate) and the two plastic ear caps from the front of the chassis.**

Caution – The plastic ear covers are snap-on parts that require some care when you remove them. Remove the right plastic ear caps carefully to avoid breaking the push button reset switch that is directly below the ear cap.

To remove a plastic ear cover:

   a. **Grasp the top of the cover and press it firmly toward the outside of the unit to disengage a small plastic tab inside the cover.**

      That is, for the cover on the left side of the array, press it to the left, and for the cover on the right side of the array, press it to the right.

   b. **Pull the cover toward you to remove it.**

4. **Attach the side brackets to the left and right sides of the chassis.**

   Attach up to eight #8-32 x 3/16-inch flathead machine screws on each side to allow some adjustment to the placement. Make sure you use at least four screws.

a. Use the alignment marks (depth in inches) stamped into the side brackets to position the brackets and screws.

Determine the depth you require, and align the last alignment mark on the side bracket with the last mounting holes on the chassis.

Make sure the alignment mark corresponding to the depth you want lines up with the top and bottom threaded holes on the side of the chassis closest to the rear.

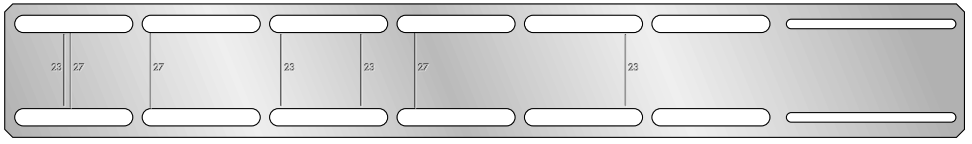

FIGURE 2-3 Side Bracket With Alignment Marks

b. Insert the first two screws on each side through the side bracket slots above and below the alignment mark and into the last pair of rear threaded holes in the chassis.

In FIGURE 2-4 the 27-inch alignment mark is positioned above and below the last pair of rear threaded holes. This positions the array for a 27-inch deep rack.

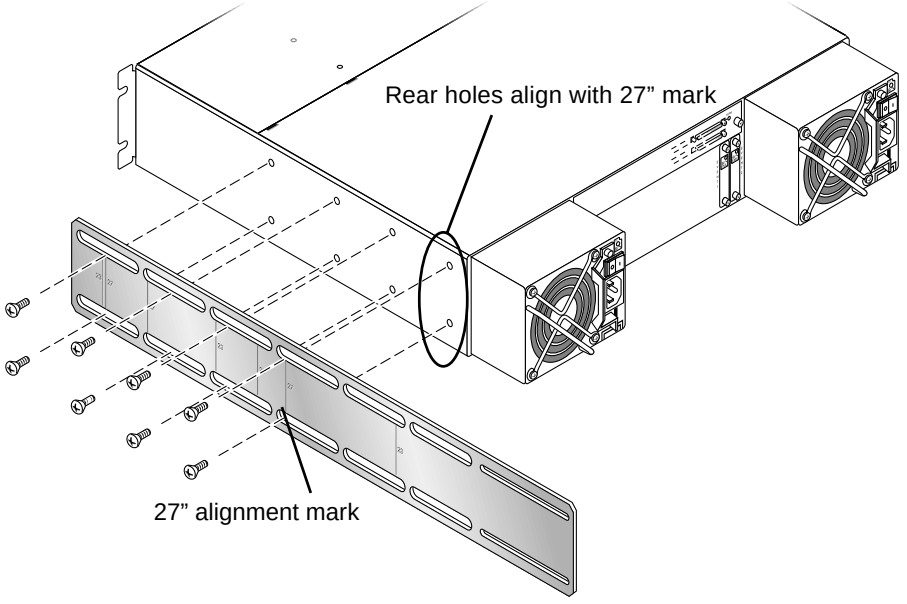

FIGURE 2-4 Aligning a Side Bracket With the Rear Threaded Holes on the Side of the Array

c. Insert up to six other screws through the side bracket slots into the other threaded holes in the chassis.

5. Use a total of four screws and four washers to attach the rear brackets to the rear vertical posts (two screws to attach each bracket to a post).

a. Insert a minimum of four #8-32 x 1/4-inch panhead screws through the side bracket slots and through the rear bracket holes.

b. Attach each rear bracket with two #10-32 x 3/8-inch panhead machine screws with #10 washers or two 6-mm (or 5-mm) panhead screws.

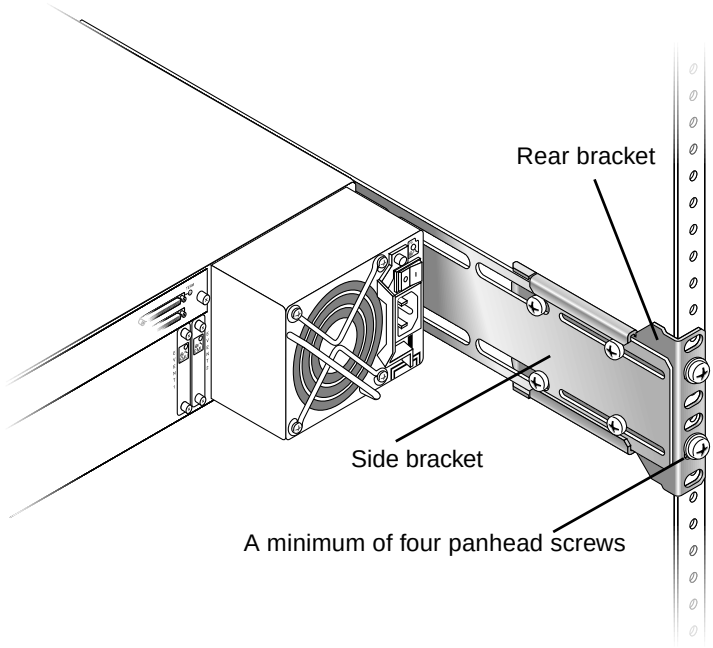

FIGURE 2-5 Rear and Side Brackets Assembled

Use the appropriate type of screws for the posts:

- Four #10-32 x 3/8-inch panhead machine screws with #10 washers
  or
- Four 6-mm panhead screws
  or
- Four 5-mm panhead screws

6. Lift the chassis and slide the side brackets into the rear brackets, which are attached to the rear posts.

Adjust the depth of these brackets so that the rear slotted cutouts on the *side brackets* align with the four PEM nuts in the *rear brackets.*

7. **Attach each side bracket to a rear bracket** (see FIGURE 2-5):

   To connect the rear brackets and side brackets of a 22- to 28-inch deep rack, use a minimum of four screws each and up to a total of:

   - Eight #8-32 x 1/4-inch panhead screws
   - Four #10-32 x 3/8-inch panhead screws
   - Four #10 flat washers

   To connect the rear and side brackets of a 28- to 36-inch deep rack, use a minimum of four screws each and up to a total of:

   - Sixteen #8-32 x 1/4-inch panhead screws
   - Four #10-32 x 3/8-inch panhead screws
   - Four #10 flat washers

8. **Attach and secure the array's front mounting ears with four appropriate screws (two screws into each ear):**

   - Four #10-32 x 3/8-inch panhead screws
     or
   - Four 6-mm sockethead screws
     or
   - Four 5-mm panhead screws

9. **Remount all drives and power/fan modules into the array.**

10. **Reattach the two plastic ear caps and the bezel onto the front of the chassis.**

11. **Connect power cables to the chassis, power up, and check for proper operation of the LEDs.**

    Refer to "Powering On and Checking LEDs" on page 4-1.

CHAPTER 3

Telco Rackmounting

This chapter provides the procedure for mounting Sun StorEdge 3310 SCSI and 3510 Fibre Channel arrays with the use of Telco hardware.

The topics covered are:

- "Flushmount Configuration" on page 3-1
- "Center-of-Gravity Configuration" on page 3-5

3.1 Flushmount Configuration

Be sure to review "One-Person Installation Requirements" on page 1-3 and "Reviewing the Tools" on page 1-3 before rackmounting the array.

Refer to FIGURE 3-1 and TABLE 3-1 during installation. TABLE 3-1 lists the major components and fasteners required to install an array into the Telco 19-inch wide flushmount racks.

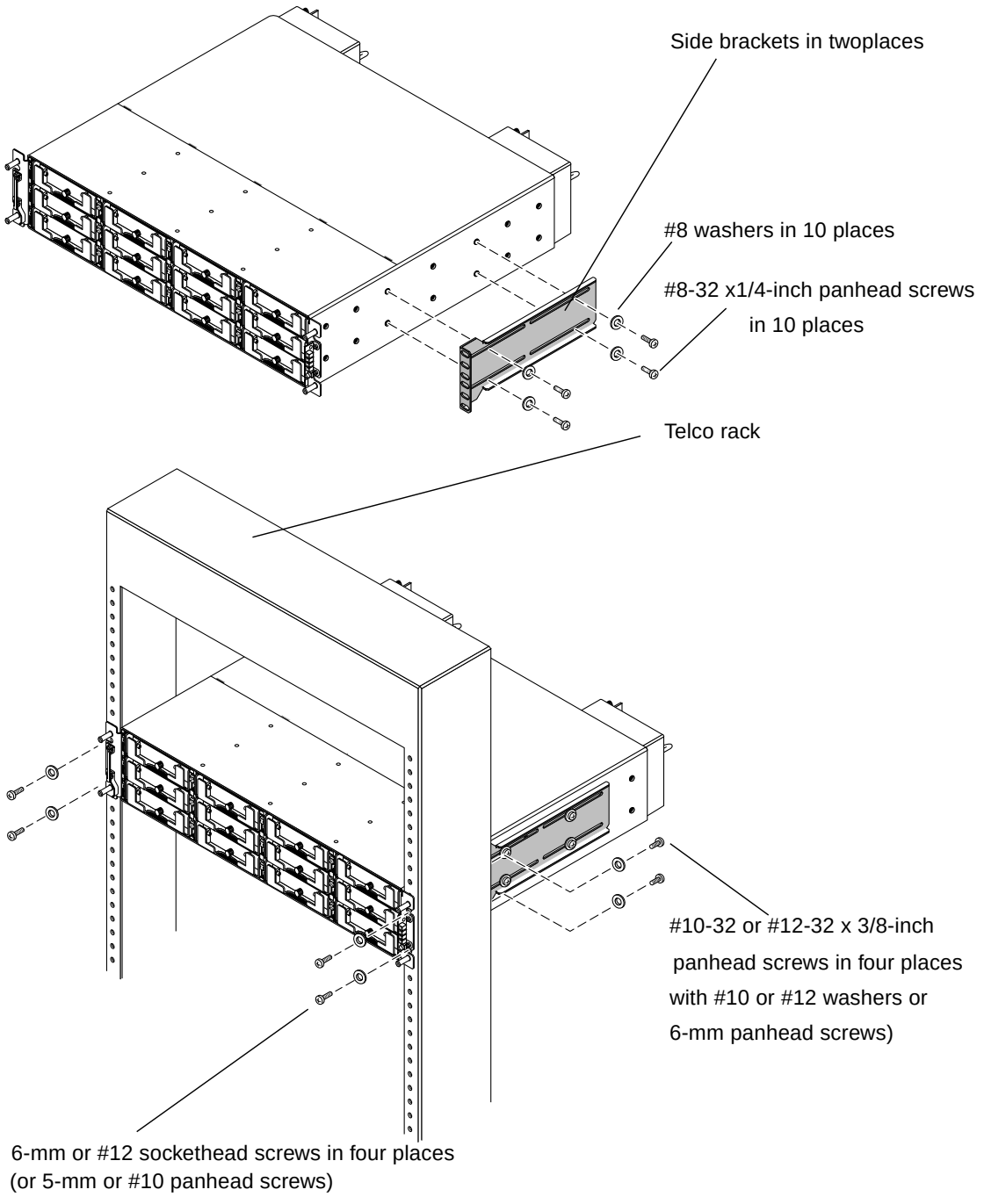

FIGURE 3-1 Flushmount Assembly

TABLE 3-1 XTA-3310-RK-19F: Telco Flushmount Rackmount Kit (595-6576-01)

Major Component			Fasteners		
Qty.	**Part Number**	**Description**	**Qty.**	**Part Number**	**Description**
2	71-00000492	Rear brackets	10	01-09010300	#8-32 x 1/4 in. panhead screws
			10	28-FLAT-8	#8 washers
			8	01-50200300	#10-32 x 3/8 in. panhead screws
			8	02-80002300	#10 washers
			4	01-00000083	6-mm sockethead screws
			8	01-00000084	6-mm panhead screws
			8	01-00000093	5-mm panhead screws
			8	01-12020300	#10-24 x 3/8 in. panhead screws
			8	01-00000092	#12-24 x 3/8 in. sockethead screws
1	09-00000064	Allen wrench*			
1	09-00000063	Allen wrench**			

*5-mm wrench for 6-mm sockethead screws.

**5/32 wrench for #12–24 sockethead screws.

Perform the following installation steps for a Telco flushmount rack configuration (see FIGURE 3-1).

1. **Determine the position at which the array will be installed.**

   Install the first array at the *bottom* of the rack, and install each subsequent chassis above the one below.

   For additional rack hole information, see “Mounting Holes in the Sun StorEdge 72-Inch Expansion Cabinet” on page A-1.

Note – Keep all hardware items in plastic bags until you are ready to use them. This will enable you to correctly identify the screws and avoid confusion.

---

2. **Before rackmounting, be sure to check your site location and confirm that you have cables with adequate lengths to connect to servers and to power outlets.**

3. **Remove the bezel (the front faceplate) and two plastic ear caps from the front of the chassis.**

Caution – The plastic ear covers are snap-on parts that require some care when you remove them. Remove the right plastic ear caps carefully to avoid breaking the push button reset switch that is directly below the ear cap.

To remove a plastic ear cover:

a. **Grasp the top of the ear cover and press it firmly toward the outside of the unit to disengage a small plastic tab inside the cover.**

   That is, for the cover on the left side of the array, press it to the left, and for the cover on the right side of the array, press it to the right.

b. **Pull the cover toward you to remove it.**

4. **While supporting the chassis, attach the unit to the Telco rack, using four 6-mm sockethead screws through the chassis ears.**

5. **Attach the rear brackets to the left and right sides of the chassis. Use four #8-32 x 1/4-inch panhead machine screws with #8 washers per bracket.**

   Use the appropriate type of screws for the posts:

   - #10-32 x 3/8-inch panhead screws
     or
   - 5-mm panhead screws
     or
   - #12-24 sockethead screws
     or
   - 6-mm panhead screws

6. **Reinstall all drive modules and power/fan modules into the array if they were removed.**

7. **Reattach (snap) the two plastic ear covers and bezel onto the front of the chassis.**

8. **Connect the power cables to the chassis, power on, and check for proper operation of the LEDs.**

   For details about the LEDs, see “Powering On and Checking LEDs” on page 4-1.

3.2 Center-of-Gravity Configuration

Be sure to review “One-Person Installation Requirements” on page 1-3 and “Reviewing the Tools” on page 1-3 before rackmounting the array.

Refer to the following parts list and FIGURE 3-2 during installation. The following table lists the major components and fasteners required to install an array into the Telco 19-inch wide center-of-gravity rack.

TABLE 3-2 XTA-3310-RK-19C: Telco Center-of-Gravity Rackmount Kit (595-6575-01)

Major Components			Fasteners		
Qty.	**Part Number**	**Description**	**Qty.**	**Part Number**	**Description**
4	71-00000491	Side brackets	24	01-09010300	#8-32 x 1/4 in. panhead screws
			24	28-FLAT-8	#8 washers
			10	01-50200300	#10-32 x 3/8 in. panhead screws
			10	02-80002300	#10 washers
			10	02-09002340	#12 washers
			10	01-00000084	6-mm x 6 panhead screws
			10	01-00000093	5-mm x 6 panhead screws
			10	01-12020300	#10-24 x 3/8 in. panhead screws
			8	01-00000092	#12-24 x 3/8 in. sockethead screws
1	09-00000064	Allen wrench*			
1	09-00000063	Allen wrench**			

*5-mm wrench for 6-mm sockethead screws

**5/32 wrench for #12-24 sockethead screws

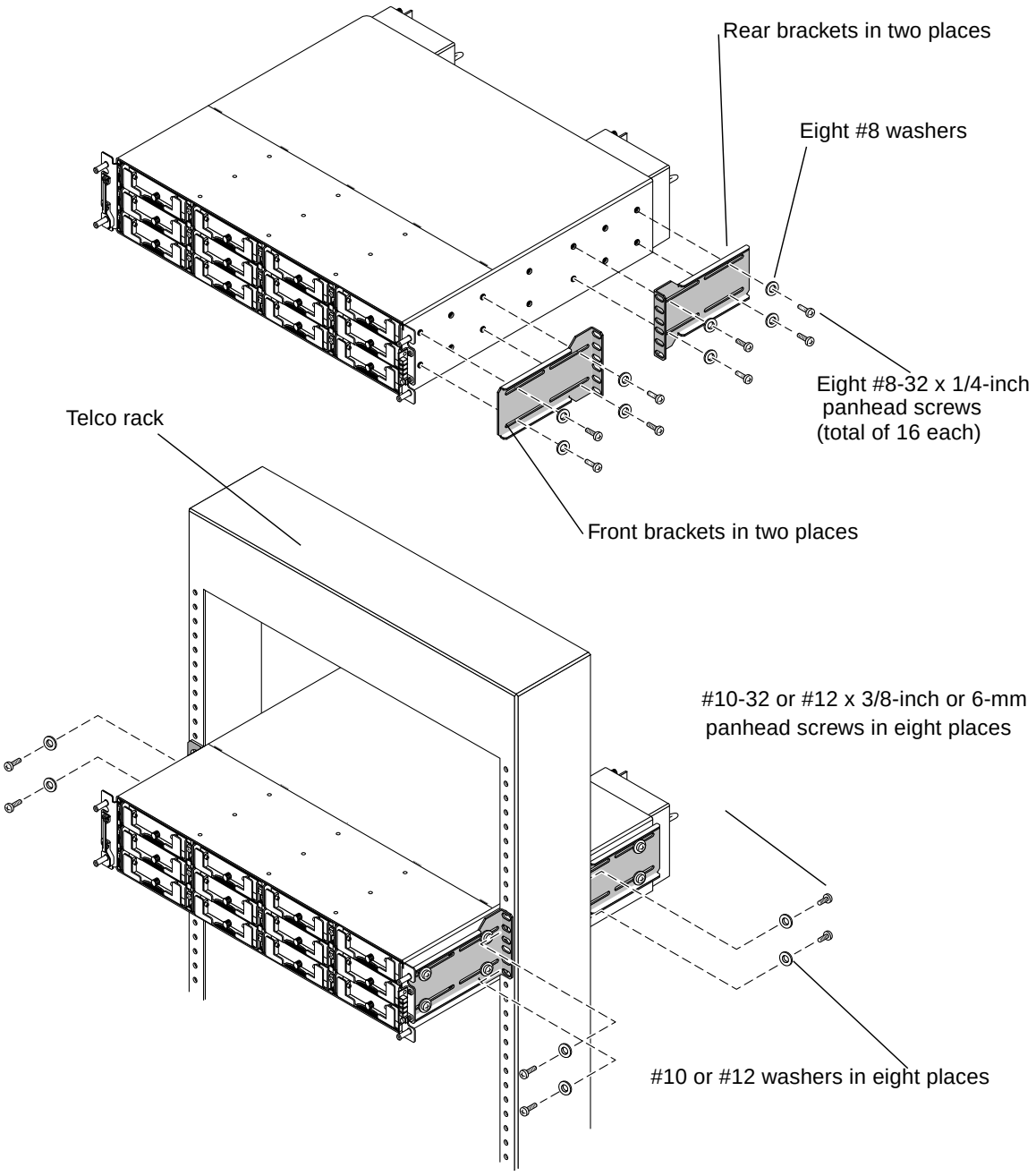

FIGURE 3-2 Center-of-Gravity Assembly

Perform the following installation steps for a Telco center-of-gravity rack configuration (see FIGURE 3-2).

1. **Determine the position at which the array will be installed.**

   Install the first array at the *bottom* of the rack, and install each subsequent chassis above the one below.

   For additional rack hole information, see "Mounting Holes in the Sun StorEdge 72-Inch Expansion Cabinet" on page A-1.

Note – Keep all hardware items in plastic bags until you are ready to use them. This will enable you to correctly identify the screw sizes and avoid confusion.

---

2. **Before rackmounting, be sure to check your site location and confirm that you have cables with adequate lengths to connect to servers and to power outlets.**

3. **Remove the bezel (the front faceplate) and two plastic ear caps from the front of the chassis.**

Caution – The plastic ear covers are snap-on parts that require some care when you remove them. Remove the right plastic ear caps carefully to avoid breaking the push button reset switch that is directly below the ear cap.

To remove a plastic ear cover:

   a. **Grasp the top of the cover and press it firmly toward the outside of the unit to disengage a small plastic tab inside the cover.**

      That is, for the cover on the left side of the array, press it to the left, and for the cover on the right side of the array, press it to the right.

   b. **Pull the cover toward you to remove it.**

4. **Attach the side brackets to each side of the chassis**:

   Allow for the depth of the rack, and allow for the distance you want the chassis to extend forward in the rack. Attach the front brackets first.

   Use up to six #8-32 x 1/4-inch panhead machine screws with #8 washers for each front side bracket, using the mounting holes available. (Use four screws as a minimum.) Then mount the front brackets to the Telco rack as explained in step 5.

5. **Attach the chassis to the Telco rack by inserting eight or more 6-mm screws through the mounting holes located on both sides of the brackets and into the frame.**

   a. **Use the appropriate type of screws for the ports**:

- #10-32 x 3/8-inch panhead screws with #8 washers
  or
- 5-mm panhead screws or #12-24 cap screws

b. Use four #8-32 x 1/4-inch panhead screws with #8 washers for each rear side bracket.

6. **Reinstall all drive modules and power/fan modules into the array if they were removed.**
7. **Reattach (snap) the two plastic ear caps and the bezel onto the front of the chassis.**
8. **Connect power cables to the chassis, power up, and check for proper operation of the LEDs.**

   For details about the LEDs, refer to "Powering On and Checking LEDs" on page 4-1.

CHAPTER 4

Powering On and Checking LEDs

Perform the initial check of the array according to the following procedure.

1. **Connect two AC (or DC) power cables to the power/fan modules on the rear of the array.**
2. **Power on the array using both power switches.**
3. **Make sure all front LEDs turn solid green.**

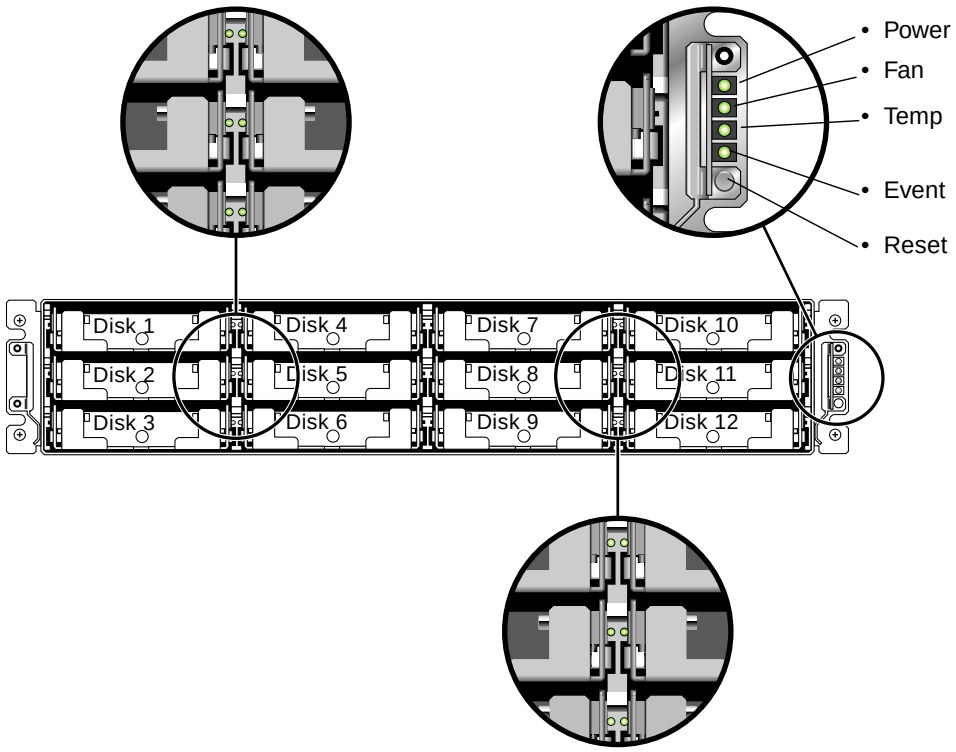

FIGURE 4-1 Front Panel With LEDs Displayed

Refer to the *Sun StorEdge 3000 Family Installation, Operation, and Service Manual* for your array, for more information about how to cable and power on the array and how to interpret the LEDs.

APPENDIX **A**

Mounting Holes in the Sun StorEdge 72-Inch Expansion Cabinet

The following table lists the bracket mounting holes for installing multiple Sun StorEdge 3000 Family 2 rack unit (2 RU) arrays in a 72-inch expansion cabinet.

Note – The Sun StorEdge 72-Inch Expansion Cabinet has power connections for up to eight Sun StorEdge 3310 SCSI and Sun StorEdge 3510 FC arrays.

TABLE A-1 Sun StorEdge 3000 Family SCSI and FC Arrays

Array	Front Holes	Rear Holes
1	9,12	9,12
2	15, 18	15, 18
3	21,24	21,24
4	27,30	27,30
5	33,36	33,36
6	39,42	39,42
7	45,48	45,48
8	51,54	51,54
9*	57,60	57,60
10*	63,66	63,66
11*	69,72	69,72
12*	75,78	75,78
13*	81,84	81,84
14*	87,90	87,90

TABLE A-1 Sun StorEdge 3000 Family SCSI and FC Arrays *(Continued)*

Array	Front Holes	Rear Holes
15*	93,96	93,96
16*	99,102	99,102
17*	105,108	105,108

* These locations can be used only if arrays are not mounted using the holes shown for Arrays 1-8.

Note – The Sun StorEdge Expansion Cabinet (72-inch) is configured with a power sequencer in the bottom six holes.