Installation Guide

English

Brisque and Brisque Serve Additional Disks

399Z52394C

www.creo.com

Brisque and Brisque Serve Additional Disks

Installation Guide

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4743091	5291273	5459505	5625766	5854883	6014471	6159659
4992864	5296935	5473733	5636330	5861904	6016752	6164637
5049901	5313278	5481379	5649220	5861992	6031932	6180325
5079721	5323248	5488906	5650076	5864651	6043865	6181362
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5113249	5333064	5509561	5691828	5900981	6063546	6189452
5122871	5339176	5517359	5696393	5934196	6072518	6191882
5124547	5343059	5519852	5699174	5942137	6090529	6204874
5132723	5355446	5526143	5699740	5946426	6096461	6208369
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5157516	5367388	5576754	5742743	5969872	6115056	
5208818	5384648	5579115	5764381	5973801	6121996	
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1 Overview

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The Brisque system is supplied with both System and User hard disk drives.

The Server / Brisque Serve system is supplied with a System disk, Database disk, Legato and Timn@web disks.

Adding data disk drives is possible, internally or externally, according to the system configuration.

1.1 Physical Dimensions

Two Form Factors of 3.5" disk drives are supported:

- Low Profile (1" high)
- High Profile (1.6" high).

The Low Profile (L-P) drive may be installed anywhere, but installing the High Profile (H-P) drive is limited because of its physical dimensions and the increased heating it causes.

1.2 SCSI Narrow/Wide

The hard disk drives are connected to the Brisque systems using an Ultra SCSI (Small Computer Systems Interface) bus, and should conform to the SCSI requirements detailed in this section.

1.2.1 Narrow / Wide

In general, the bus is available in two widths:

- Narrow (50 pin connector)
- Wide (68 pin connector).



Note: The Brisque systems use the Wide bus either for internal or external disk drives.

Most external SCSI devices (such as: Iris, Jaz, Optical drive) use the Narrow Bus. Therefore, the Brisque is supplied with Wide-to-Narrow cable for those devices. Since mixing of Narrow and Wide devices on the same channel is not allowed, additional SCSI adapters are needed to connect those devices and external disk drives.

1.2.2 Termination

Each SCSI channel should be terminated at the end device on the chain. To do this, disable all SCSI terminators of all hard disk drives by removing the Termination Enable jumper.

1.2.3 External Disk Cable Length

The length of the cable that connects the computer to the external disk drive should not exceed 1.5m.

1.3 Disk Drive Handling

- Handle disk drives with care
- Do not drop the drive, not even onto a padded surface
- Use a grounding strap when handling drives
- Hold drives by their edges without touching the circuit board or connector pins
- Use Electrostatic Discharge (ESD) safe work areas with padded surfaces
- Do not attach any cables to the drive while it is still in its anti-static bag
- Turn off the host system before connecting the drive
- Secure the drive into its housing using all four (4) screws
- Wait for the drive to stop spinning before moving it.

1.4 System Configuration

The Brisque disk drive configurations are as follows:

Factory Configuration	E30	43P	F50	44P	6F1
Existing System Drive	1	1	1	1	1
Existing User Drives	1	1	2	1	2
Bays Available for L-P Drives	3	1	4	2	4
Bays Available for H-P Drives	2		2		

The Server / Brisque Serve disk drive configurations are as follows:

Factory Configuration	E30	43P	F50	44P	6F1
Existing System Drive	1	1	1	1	1+1*
Existing Drives (Database, Legato, Timn@web				2	4
Bays Available for L-P Drives	3		5	1	
Bays Available for H-P Drives	2				

*. Mirrored System disk

The system can be expanded:

Optional Configurations	E30 / 43P / 44P/ F50 / 6F1
Expansion Bays	The Tower with one (1) disk drive installed.
Bays Available for L-P Drives	Three (3) in the tower.

1.5 Logistics

Logistics Kits		E30 / 43P
Additional Disks	**18GB**	501R44797 - Additional 18GB L-P disk.* 510K51953A - Kit, additional 18GB L-P disk.
	36GB	501R49496 - Additional 36GB L-P disk.* 510K1P978 - Kit, additional 36GB L-P disk.

*. To be inserted in the platform or older tower versions (up to three additional kits may be ordered for the tower).

Logistics Kits		F50
Additional disk	**18GB**	501R44830 - Add 18GB L-P disk for F50* 510K51107A - Add 9GB L-P disk for F50
	36GB	501R49497 - Add 36GB disk for F50* 510K1P979 KIT - Add 36GB disk for F50

*. Hot Swap carrier is included; up to 6 kits may be ordered for each bank.

Logistics Kits		44P-170
Additional disk	**36GB**	501R49565 - Add 36GB disk for 44P-170 510K1R298 - Add 36GB disk for 44P-170
	73GB	501R49566 - Add 73GB disk for 44P-170 510K1R299 - Add 73GB disk for 44P-170

Logistics Kits		6F1
	36GB	501R49567 - Add 36GB disk for 6F1* 510K1R300 - Add 36GB disk for 6F1
	73GB	501R49822 - Add 73GB disk for 6F1* 510K3R365 - Add 73GB disk for 6F1

*. Hot Swap carrier is included; up to 6 kits may be ordered for each bank.

Logistics Kits	E30 / 43P / 44P/ F50 / 6F1
Expansion Storage Capacity	501R49400 - Brisque external tower 73GB SCA.* 501S4L086 - Brisque external tower 73GB SCA.
	501R44705 - Ultra SCSI single ended board. ** 605B00300 - Ultra SCSI PCI-BUS adapter.

*. One disk is included.

**.This kit should be ordered with the tower if any other external SCSI device is already connected to the platform.

2

Adding a Disk Drive to the E30 Machine

Installing an Internal Drive 8
Installing an External Drive 10

2.1 Installing an Internal Drive

To install an internal drive on the E30:

1. shutdown the system unit, using the **shutdown** command.
2. Disconnect the power cord.
3. Remove the covers.

For details, refer to IBM User's Guide RS/6000 7024 E Series, Chapter 5, Removing the Cover.

Note: Before opening your computer, make sure you are properly grounded. Static electricity stored in your body or clothing can damage or destroy static sensitive electronic components. Make sure your work area includes some form of static protection.

4. Locate the internal drive bays.

Note: The E30 has five bays for internal drives, to prevent overheating. Drives should be installed in the four (4) upper bays. If you install high profile drives, only three drives should be installed with enough space between them to prevent overheating (use bays #2 and #3 to install the second drive).

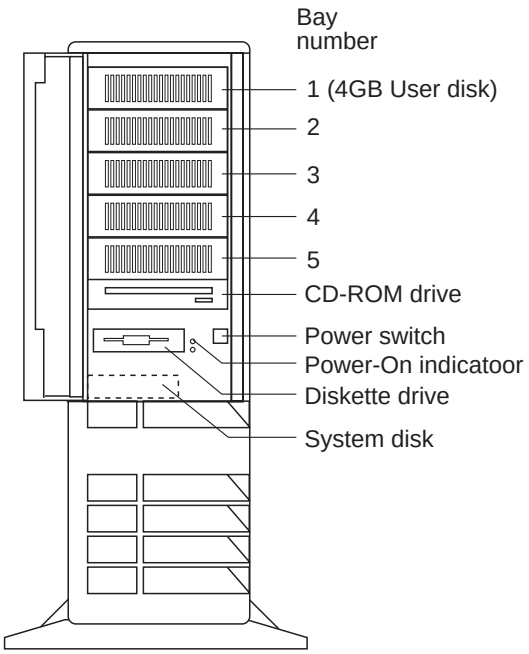


Figure 1: E-30 Disk Location

5. Set the drive option jumpers.

Option	Seagate Drives	IBM Drives	In/Out
Delay Start	Delay Motor Start option (DS)	Delay Start	In
Termination	Enable SCSI Termination (TE)	Active Term	Out
Trm Power	Termination Power to SCSI bus (TP)	Termination PWR Enable	In

6. Set the drive SCSI ID jumpers.

Bay	A3	A2	A1	A0
First Bay (ID#1)	Out	Out	Out	In
Second Bay (ID#2)	Out	Out	In	Out
Third Bay (ID#3)	Out	Out	In	In
Fourth Bay (ID#4)	Out	In	Out	Out

7. Slide open the system disk drive tray.
8. Insert the disk drive into the drive tray and attach it with four (4) screws.
9. Slide close the drive tray assembly and connect both power and SCSI cables to the drive.



For details, refer to IBM User's Guide RS/6000 7024 E Series, Chapter 5, Installing Internal Drives.

10. Replace the covers and plug in the power cord.



For details, refer to IBM User's Guide RS/6000 7024 E Series, Chapter 5, Installing the Cover.

11. Power on the system. (For instructions on setting up the new drive on the Brisque, refer to *Chapter 8, Configuring an Additional Disk*).



For instructions on setting up the new drive on the Server / Brisque Serve, refer to the Brisque Server Installation Guide (399Z1R852A).

2.2 Installing an External Drive

External Tower is connected to SCSI PCI adapter (slot#2).

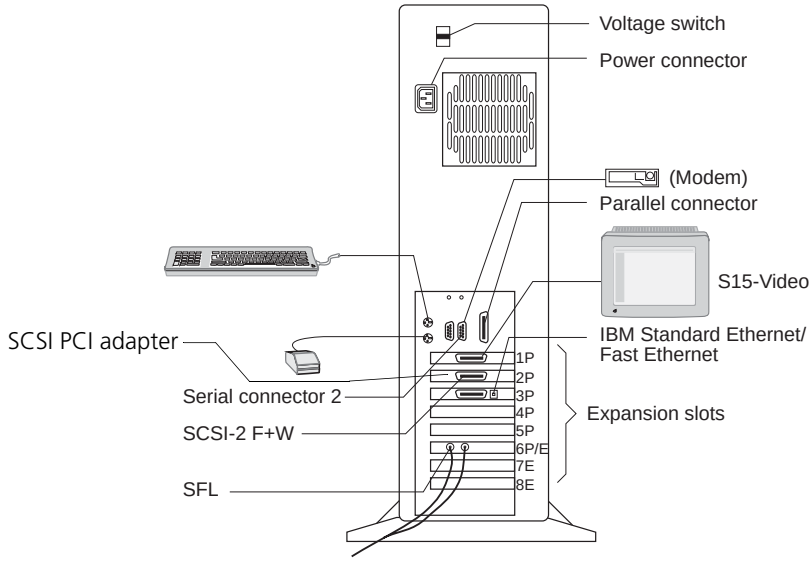


Figure 2: E-30 Back View with Connections

For installation of external tower, see Brisque External Tower 73GB (SCA) Installation Notes (399Z1P527C).

3

Adding a Disk Drive to the 43P Machine

Installing an Internal Drive 12
Installing an External Drive 14

3.1 Installing an Internal Drive

To install an internal drive on the 43P:

1. Shut down the system unit, using the **shutdown** command.

For details, refer to IBM User's Guide RS/6000 7043 P Series, Chapter 4, Removing the Cover.

2. Disconnect the power cord.
3. Remove the covers.

Note: Before opening your computer, make sure you are properly grounded. Static electricity stored in your body or clothing can damage or destroy static sensitive electronic components. Make sure your work area includes some form of static protection.

4. Locate the internal drive bays.

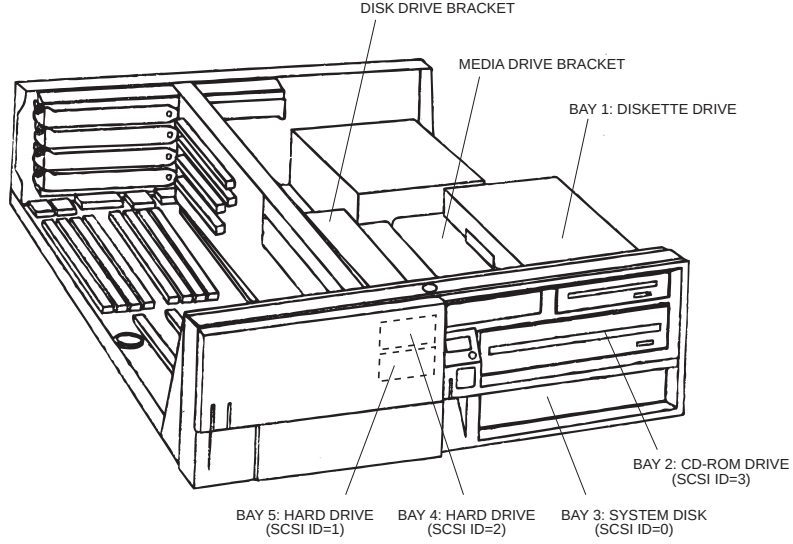


Figure 3: 43P Disk Space

5. Set the drive option jumpers.

Option	Seagate Drives	IBM Drives	In/Out
Delay Start	Delay Motor Start option (DS)	Delay Start	In

Option	Seagate Drives	IBM Drives	In/Out
Termination	Enable SCSI Termination (TE)	Active Term	Out
Trm Power	Termination Power to SCSI bus (TP)	Termination PWR Enable	In

6. Set the drive SCSI ID jumpers.

Bay	A3	A2	A1	A0
First Bay (ID#1)	Out	Out	Out	In
Second Bay (ID#2)	Out	Out	In	Out

7. Remove the disk drive bracket assembly from the system unit.
8. Insert the disk drive into the drive bracket assembly and secure it with four (4) screws.
9. Reinstall the disk drive bracket assembly into the system unit and connect both power and SCSI cables to the drive.



For details, refer to IBM User's Guide RS/6000 7043 P Series, Chapter 4, Installing or Removing Internal Drives.

10. Replace the covers and plug in the power cord.



For details, refer to IBM User's Guide RS/6000 7043 P Series, Chapter 4, Completing the Installation.

11. Power on the system. (For instructions on setting up the new drive on the Brisque, refer to *Chapter 8, Configuring an Additional Disk*).



For instructions on setting up the new drive on the Server / Brisque Serve, refer to the Brisque Server Installation Guide (399Z1R852A).

3.2 Installing an External Drive

An External Tower is connected to SCSI PCI adapter (slot#5).

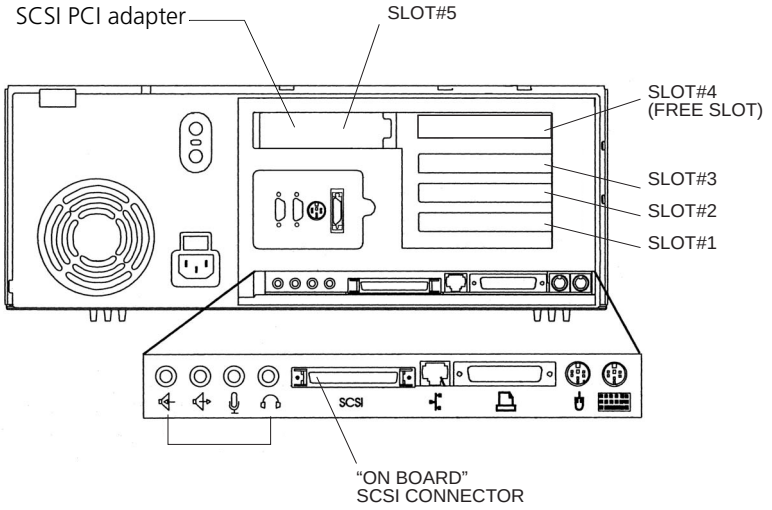


Figure 4: 43P Rear View

For installation of external tower, see Brisque External Tower 73GB (SCA) Installation Notes (399Z1P527C).

4 Adding a Disk Drive to the F50 Machine

Installing an Internal Drive 16
Installing an External Drive 18

4.1 Installing an Internal Drive

To install an internal drive on the F50:

1. shutdown the system unit, using the **shutdown** command.
2. Disconnect the power cord.
3. Remove front cover.

For details, refer to IBM User's Guide RS/6000 7025 F50 Series, Chapter 5, Removing the Front Cover Only.

Note: Before opening your computer, make sure you are properly grounded. Static electricity stored in your body or clothing can damage or destroy static sensitive electronic components. Make sure your work area includes some form of static protection.

4. Locate the internal drive bays.

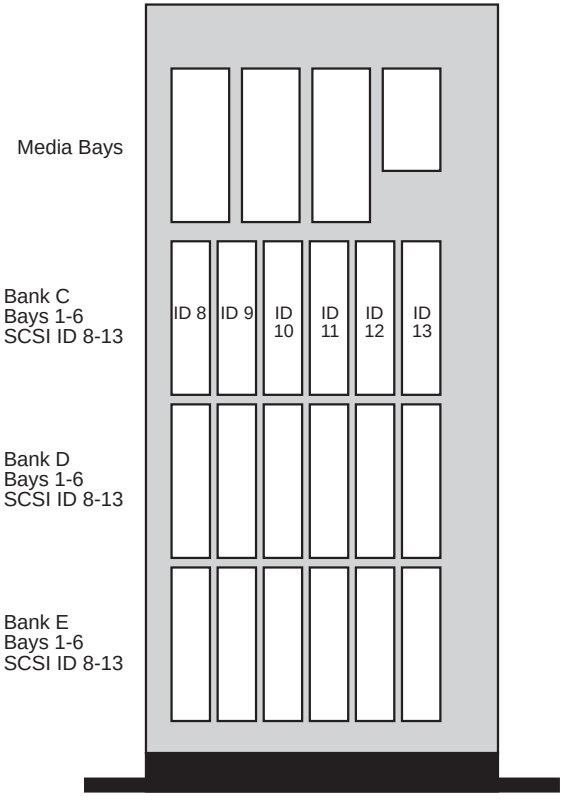


Figure 5: F-50 Disk Drive Locations

5. Pre-install the drive in its hot-swap carrier before inserting into the system.



Note: SCSI IDs are automatically assigned by the backplane for each drive. Therefore, no address jumpers are required on the drives.



WARNING: Attaching SCSI address jumpers on the drive can cause:

- Service problems
- Multiple drives to be located at the same address
- Confusion locating the correct drive.

6. Set the drive option jumpers.

Option	Seagate Drives	IBM Drives	In/Out
Delay Start	Delay Motor Start option (DS)	Delay Start	In
Termination	Enable SCSI Termination (TE)	Active Term	Out
Trm Power	Termination Power to SCSI bus (TP)	Termination PWR Enable	In

7. Gently slide the carrier into the rear of the next unused bay (from left to right) to prevent damage to the disk drive.
8. Move the carrier latch to the locked position.



For details, IBM User's Guide RS/6000 7025 F50 Series, Chapter 5, Installing Disk Drive in Bank C, D or E.

9. Replace covers and plug in the power cord.



For details, IBM User's Guide RS/6000 7025 F50 Series, Chapter 5, Replacing the Front Covers.

10. Power on the system. (For instructions on setting up the new drive on the Brisque, refer to *Chapter 8, Configuring an Additional Disk*).



For instructions on setting up the new drive on the Server / Brisque Serve, refer to the Brisque Server Installation Guide (399Z1R852A).

4.2 Installing an External Drive

An External Tower is connected to on-board SCSI external port.

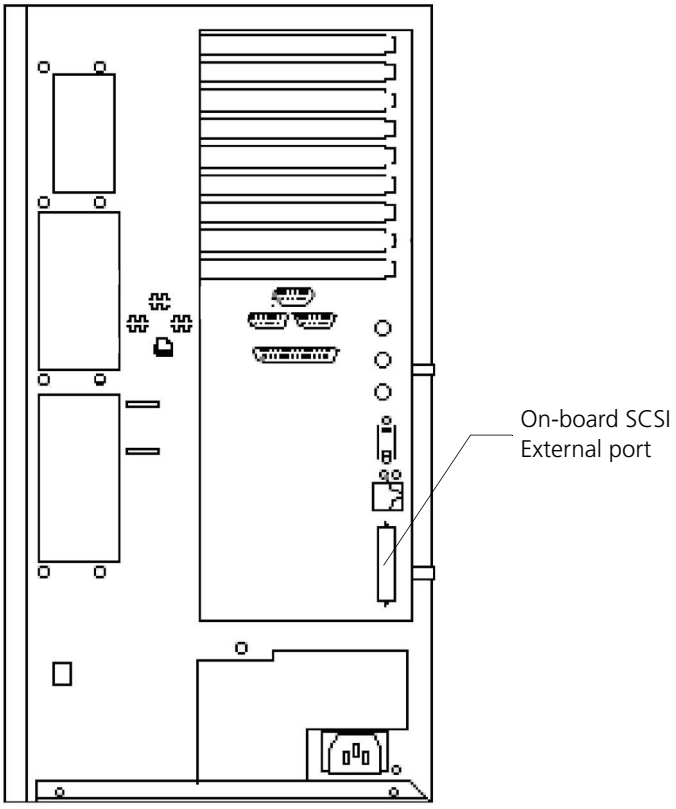


Figure 6: F50 Rear View

For installation of external tower, see Brisque External Tower 73GB (SCA) Installation Notes (399Z1P527C).

5

Adding a Disk Drive to the 44P Machine

Installing an Internal Drive 20
Installing an External Drive 22

5.1 Installing an Internal Drive

To install an internal drive on the 44P:

1. Shut down the system unit, using the **shutdown** command.

For details, refer to IBM Service Guide RS/6000 7044 P Series, Removing the Cover.

2. Disconnect the power cord.
3. Remove the covers.

Note: Before opening your computer, make sure you are properly grounded. Static electricity stored in your body or clothing can damage or destroy static sensitive electronic components. Make sure your work area includes some form of static protection.

4. Locate the internal drive bays.

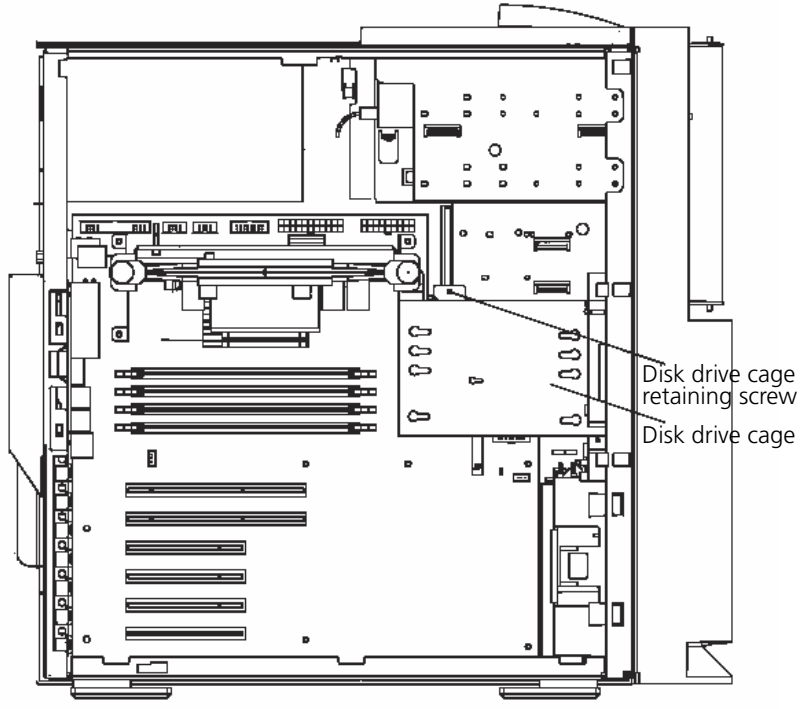


Figure 7: 44P Disk Space

5. Set the drive option jumpers.

Option	Seagate Drives	IBM Drives	In/Out
Delay Start	Delay Motor Start option (DS)	Delay Start	In
Termination	Enable SCSI Termination (TE)	Active Term	Out
Trm Power	Termination Power to SCSI bus (TP)	Termination PWR Enable	In

6. Set the drive SCSI ID jumpers.

Bay	A3	A2	A1	A0
First Bay (ID#1)	Out	Out	Out	In
Second Bay (ID#2)	Out	Out	In	Out
Third Bay (ID#3)	Out	Out	In	In

7. Remove the disk drive bracket assembly from the system unit.
8. Insert the disk drive into the drive bracket assembly and secure it to the bracket with the four (4) screws.
9. Reinstall the disk drive bracket assembly into the system unit and connect both power and SCSI cables to the drive.



For details, refer to IBM Service Guide RS/6000 7044 P Series, Installing or Removing Internal Drives.

10. Replace the covers and plug in the power cord.



For details, refer to IBM Service Guide RS/6000 7044 P Completing the Installation.

11. Power on the system. (For instructions on setting up the new drive on the Brisque, refer to *Chapter 8, Configuring an Additional Disk*).



For instructions on setting up the new drive on the Server / Brisque Serve, refer to the Brisque Server Installation Guide (399Z1R852A).

5.2 Installing an External Drive

An External Tower is connected to on-board SCSI external port.

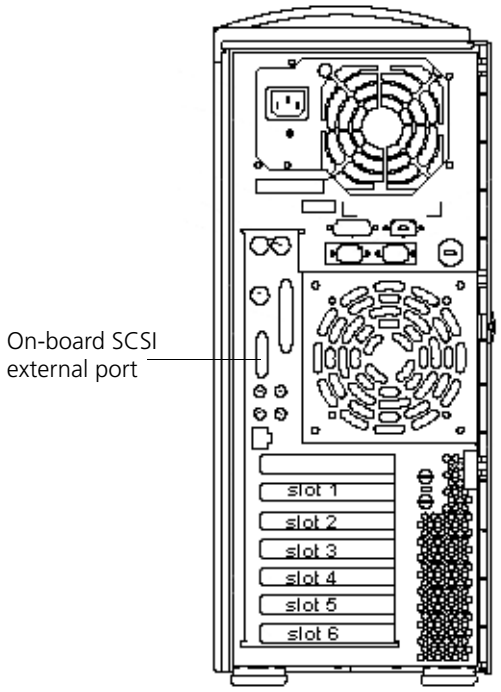


Figure 8: 44P Rear View

For installation of external tower, see Brisque External Tower 73GB (SCA) Installation Notes (399Z1P527C).

6 Adding a Disk Drive to the 6F1 Machine

Installing an internal drive 24
Installing an External drive.....26

6.1 Installing an internal drive

To install an internal drive on the 6F1:

1. Shut down the system unit, using the **shutdown** command.
2. Disconnect the power cord.
3. Remove front cover.



For details, refer to IBM Service Guide RS/6000 7025 F61 Series, Removing the Front Cover Only.



Note: Before opening your computer, make sure you are properly grounded. Static electricity stored in your body or clothing can damage or destroy static sensitive electronic components. Make sure your work area includes some form of static protection.

4. Locate the internal drive bays.

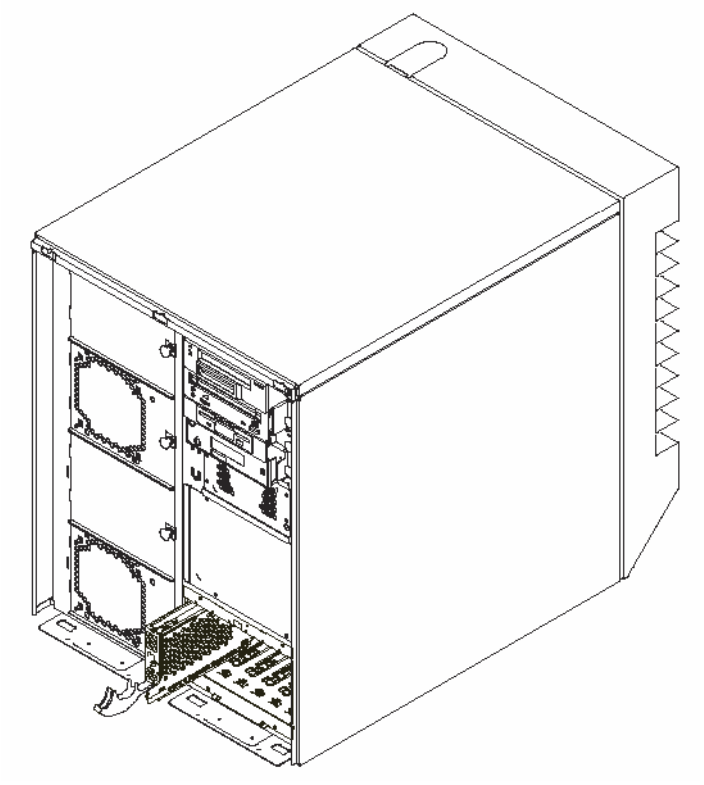


Figure 9: 6F1 Disk Drive Locations

5. Pre-install the drive in its hot-swap carrier before inserting into the system.



Note: SCSI IDs are automatically assigned by the backplane for each drive. therefore, no address jumpers are required on the drives.

6. Gently slide the carrier into the rear of the next unused bay (from left to right) to prevent damage to the disk drive.
7. Move the carrier latch to the locked position.



For details, IBM Service Guide RS/6000 7025 6F1 Series, Disk Drive option.

8. Replace covers.



For details, IBM Service Guide RS/6000 7025 6F1 Series, Replacing the Front Covers.

9. Plug in the power cord.
10. Power on the system. (For instructions on setting up the new drive on the Brisque, refer to *Chapter 8, Configuring an Additional Disk*).



For instructions on setting up the new drive on the Server / Brisque Serve, refer to the Brisque Server Installation Guide (399Z1R852A).

6.2 Installing an External drive

An External Tower is connected to on-board SCSI external port, or SCSI PCI adapter (slot #4).

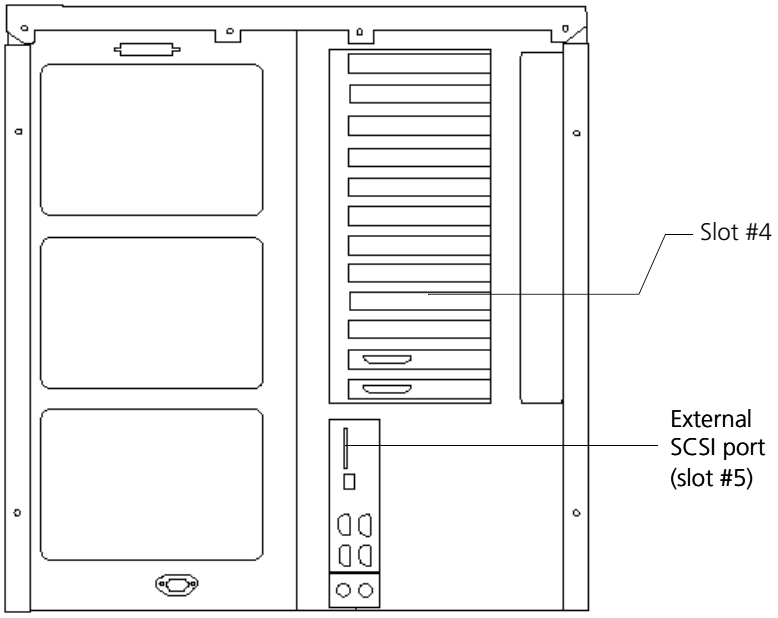


Figure 10: 6F1 Rear View

For installation of external tower, see Brisque External Tower 73GB (SCA) Installation Notes (399Z1P527C).

7

Adding a Disk Drive into an Older Tower Version

Installing an Internal Disk 28

7.1 Installing an Internal Disk



Note: For instructions on adding a disk drive to a new (SCA) tower version, refer to the Brisque External Tower 73GB (SCA) Installation Notes (399Z1P527C).

To add a disk drive into an older tower version:

1. Shutdown the system unit, using the **shutdown** command.
2. Power off the tower, and wait a few seconds for the drives to stop spinning.
3. Disconnect the power cord and SCSI cable.
4. Remove the front and side covers from the tower.
5. Set the drive option jumpers.

Option	Seagate Drives	IBM Drives	In/Out
Delay Start	Delay Motor Start option (DS)	Delay Start	In
Termination	Enable SCSI Termination (TE)	Active Term	Out
Trm Power	Termination Power to SCSI bus (TP)	Termination PWR Enable	In

6. Set the drive SCSI ID jumpers.

Bay	A3	A2	A1	A0
First Bay (ID#8)	In	Out	Out	Out
Second Bay (ID#9)	In	Out	Out	In
Third bay (ID#10)	In	Out	In	Out
Fourth bay (ID#11)	In	Out	In	In

7. Slide the drive into the tower slot and secure the drive using four (4) screws (included with the kit).
8. Connect one of the power cables to the drive.
9. Connect one of the connectors on the SCSI cable to the drive.

10. Replace the tower covers and plug in the power cord and SCSI cable.
11. Set each of the SCSI ID switches at the back of the tower according to its drive SCSI ID.
12. Power on the tower, then the system. (For instructions on setting up the new drive on the Brisque, refer to *Chapter 8, Configuring an Additional Disk*).



For instructions on setting up the new drive on the Server / Brisque Serve, refer to the Brisque Server Installation Guide (399Z1R852A).

8

Configuring an Additional Disk

Configuring a New Disk 32
Configure New Striping Disk 33

WARNING: Configuring a Disk will erase all present files on the disk.
in case you wish to save data present on the disk, use the Import a Disk option.
(scismit -> Devices -> Fixed Disks -> Import a Disk)

8.1 Configuring a New Disk

You can configure a new fixed disk, using this option.

To configure a new hard disk:

1. Log out from the Brisque application and log back as **root**.
2. From command prompt, type `scismit`, then press ENTER.
3. Activate the SciSmit application.
4. From the SciSmit main menu select **Devices -> Fixed Disks -> Configure New Disk**, and press ENTER. The Configure New Disk window appears.

```
                                Configure New Disk

Type or select values in entry fields.
Press Enter AFTER making all desired changes.

                                                              [Entry Fields]
  Warning: This option will destroy all data
   on selected disk/s.

* Volume Size (GB)                                          Max                  +
* List of Fixed Disks / Shuttles                                                 +

F1=Help             F2=Refresh          F3=Cancel           F4=List
Esc+5=Reset         F6=Command          F7=Edit             F8=Image
F9=Shell            F10=Exit            Enter=Do
```

5. From the Configure New Disk window, select the Volume Size of the disk to be configured. The default is `Max`.

   Use the `TAB` key to move between the values: **2GB**, **4GB**, **8GB**, **16GB**, **32GB**, **64GB** or **Max**. Or press F4 to list these options.

6. Select **List of Fixed Disks/Shuttles** and press F4 to display the list of disks. Only new disks will be displayed.
7. Select the disk for configuration and press ENTER, then press ENTER again.
8. Click **Enter** in the confirmation window to run the configuration.
9. The Command Status window will register **OK** if this successful.
10. Press `F10` to exit.

8.2 Configure New Striping Disk

Data to be striped simultaneously, across 2 disks of the same size and type, using Disk Striping. This is the method recommended to achieve better performance when adding pairs of disks.

This option, supported only by the F50, allows you to configure two new fixed disks of the same size as a single striped disk.

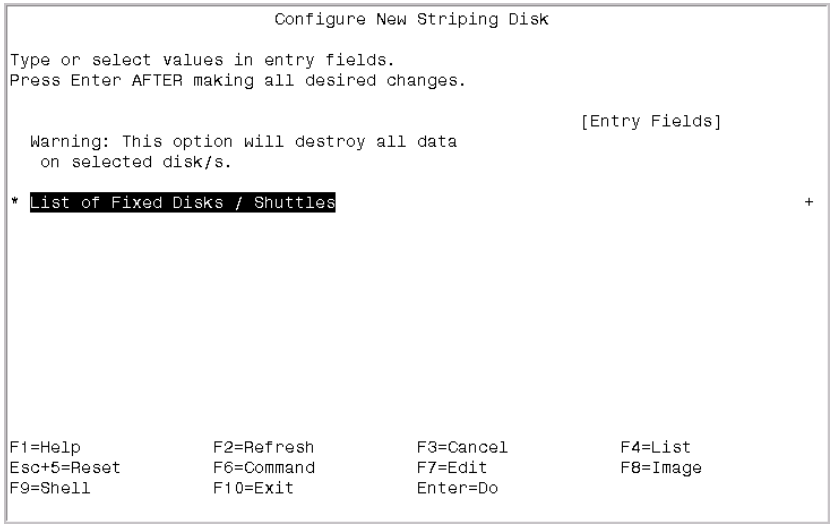


Note: There is no redundancy. Therefore, if there is a hard disk failure of one of the striped disks, the data on the second disk will also be lost.

To format and configure a new striping disk:

1. Log out from the Brisque application and log back as **Root**.
2. From command line prompt, type `scismit`, then press ENTER.

3. From the SciSmit main menu, select **Devices -> Fixed Disks -> Configure New Striped Disk**, and press ENTER. The Configure New Disk window appears.



4. From the Configure New Striped Disk window, press F4 to display a list of fixed hard disks.

5. To select the two disks for creating a striped disk, highlight the first disk and press F7, then highlight the second and press F7. Press ENTER, then press ENTER again.

6. Click **Enter** at the confirmation window to run the configuration. The Command Status window will register **OK** if this successful.

7. Press F10 to exit.

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