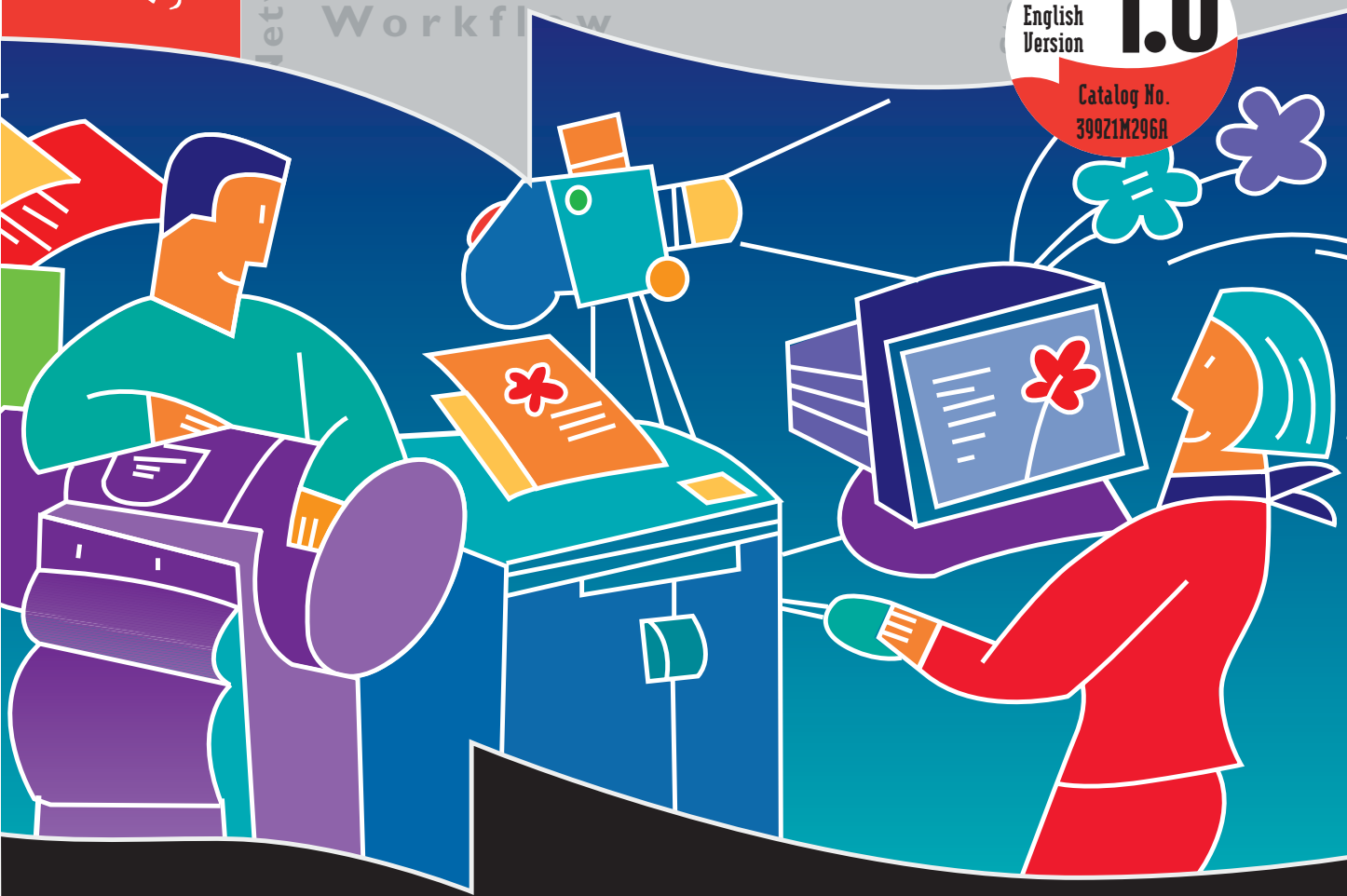
Scitex Graphic Arts

Brisque^2 to Brisque^4 Upgrade and Memory

Installation Guide

English Version 1.0

Catalog No. 39921M296A



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5.122.871	5.124.547	5.150.225	5.153.769	5.155.782	5.157.516	5.200.816
5.208.888	5.221.997	5.227.895	5.247.174	5.247.352	5.283.140	5.285.297
5.296.935	5.299.020	5.313.278	5.323.248	5.325.217	5.328.032	5.331.439
5.333.064	5.339.176	5.343.059	5.355.446	5.359.458	5.367.388	5.384.648
5.384.899	5.412.491	5.412.737	5.420.702	5.473.733	5.481.379	5.488.906
5.497.252	5.508.828	5.509.561	5.519.792	5.519.852	5.526.107	5.526.143
5.532.728	5.561.691	5.568.595	5.576.754	5.579.115	5.592.309	5.594.556
5.600.448	5.608.822	5.615.282	5.623.001	5.636.330	5.649.220	5.650.076
5.652.804	5.691.823	5.691.828	5.696.393	5.699.174	5.708.736	5.739.819
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ABOUT THIS DOCUMENT

The *Brisque[2] to Brisque[4] Upgrade and Memory Installation Guide* is intended for use by Scitex Service Engineers. The guide is designed to accompany each Upgrade kit, and includes the following topics:

- *Installing Additional CPU Card* describes procedures to insert a second CPU card with two additional CPU units into the Brisque DFE.
- *Memory Upgrade Procedures* describes upgrading the Brisque DFE to at least 512 MB.
- *Updating Paging Space* describes how to use the paging space option.
- *Registering the upgrade* describes how to include the licensing password provided by Scitex to make the upgrade functional.
- *Attaching the Brisque[4] stickers* describes how to use the provided kit to affix the Brisque[4] stickers to the monitor and F50 computer.

1 INTRODUCTION

Upgrading your Brisque[2] DFE to a Brisque[4] DFE will increase the efficiency and versatility of your workflow. The Brisque[4] DFE can perform parallel RIPping of up to four files while driving an Iris, blueline proofer and an imagesetter concurrently.

This document describes the procedures necessary to upgrade the Brisque[2] DFE to a Brisque[4] DFE on the IBM F50 system. These procedures include how to install the upgrade hardware (CPU card and memory modules) and how to reconfigure the Brisque software necessary to run the Brisque[4] DFE.

Each CPU card on the F50 contains two CPU units. The Brisque[2] has one CPU card (2 CPU units) and the Brisque[4] has two CPU cards (4 CPU units).

What is in the Brisque[2] to Brisque[4] Upgrade Kit (P/N – 510K52917)

Catalog No.	Description	Quantity
605B00420	F50 2-way 604E 332MHz Processor Board	1
605B00330	F50 256MB (2x128MB) SDRAM DIMMS	1
291E7L240	Brisque[4] Sticker	1
291E7L247	Brisque[4] Impose Nameplate	1
510K51323	Brisque[4] Impose Labeling Kit	1
399Z1M296A	Brisque[2] to Brisque[4] Upgrade and Memory Installation Guide	1

Important: For the Brisque[2] to Brisque[4] upgrade to take effect, you must enter the licensing password supplied by Scitex. You should call Scitex prior to beginning the upgrade procedure to obtain the password.

2 UPGRADING THE BRISQUE^2 TO BRISQUE^4

2.1 Checking the Existing Brisque DFE Information

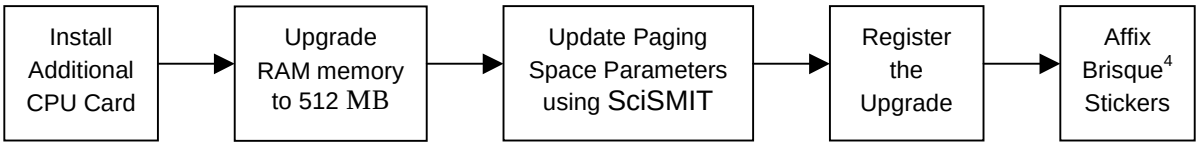
It is recommended that you check the memory capacity and paging space size of your current Brisque^2 DFE computer prior to beginning the upgrade.

- At the UNIX prompt type **bootinfo –r** for the memory capacity (in bytes) and type **lsps –a** for paging space size.
- For Brisque DFE version 3.0 or greater, you can also see the memory capacity and paging space size by accessing the *SciSMIT* menu and selecting **Information** and then **Station Information**.

2.2 Overview of Upgrading Procedures

Upgrading the Brisque^2 DFE to the Brisque^4 DFE requires:

- Installing a second CPU card containing two additional CPU units (see Installing Additional CPU Card on page 5)
- Upgrading the RAM memory from 256 MB to at least 512 MB, (see Upgrading the RAM Memory to 512 MB on page 8)
- Updating the Paging Space parameters on the Brisque DFE using **SciSMIT**. (see Update Paging Space Parameters on the Brisque DFE on page 14)
- Updating the Brisque system password. (see Entering the Upgrade Password on page 15)
- Replacing Brisque nameplates. (see Attaching the Brisque4 stickers on page 16)



Flowchart of Upgrade Procedures

2.3 Opening the F50 Unit

In order to make the necessary installations; you need to carefully open the F50 unit.

To open the F50 you need to:

1. Shutdown the Brisque DFE.
2. Remove the covers of the F50 unit.

2.3.1 To Shutdown the Brisque DFE

1. Remove all media (diskettes, CDs, tapes) from the drives.
2. Shutdown system unit, use the **shutdown** command.
3. Turn off the power to the system and all attached devices.
4. Disconnect power cord, monitor cable, keyboard cable and any other attached cables and cords from the back of the system.

Warning: Failure to disconnect the F50 power cord may destroy of the CPU card and/or the memory modules.

2.3.2 To Remove the Covers

Note: See the *Removing Covers* section in the **IBM RS/6000 User's Guide** (Part No. 93H6363), pages 5-10 to 5-16, for more detailed information on how to remove the covers.

1. Open the door on the front of the F50. Remove the door by carefully lifting it up off the hinges.
2. Remove the front cover:
   a. Unlock the keylock on the front cover.
   b. Lift up on the latch on the left side of the front cover.
   c. Grasp the sides of the front cover at the top of the system and pull it forward.
   (The front cover is held in place by two spring detented ball studs.)

d. Detach the front cover's bottom hooks from the grooves located on the bottom of the F50, and lift the front cover off the bottom of the system.

3. Remove the side cover:

   a. Pivot the side cover 90° away from the front of the system.

   b. Remove the cover by carefully lifting it up and off the hinges.

4. Remove I/O planar cover:

   a. Loosen the three screws (2 turns) on the I/O planar cover and unlatch the cover.

   b. Remove the I/O planar cover by carefully lifting the cover from the latches.

5. Place all the covers in a safe location.

2.4 Installing Additional CPU Card

You are now ready to install the new CPU card that will upgrade the Brisque^{2} to the Brisque^{4}. The CPU card is sensitive and fragile. Make sure to carefully follow all instructions.

2.4.1 Handling Static-Sensitive Devices

The CPU card is sensitive to static electricity discharge. Exposure to static electricity may cause damage to the CPU card.

Take the following precautions:

- Keep the CPU card inside the antistatic bag until you are ready to install it.
- With the card still in the bag, touch it to a metal frame of the Brisque.
- Make sure your work area includes some form of static protection. There are a number of inexpensive commercially available antistatic devices designed to protect your installation.

- If you need to lay the CPU card down while it is outside the antistatic bag, lay it on the antistatic bag. Before picking it up again, touch the antistatic bag and the metal frame of the Brisque DFE at the same time.
- Handle the devices carefully in order to prevent permanent damage.

2.4.2 Adding an Additional CPU Card

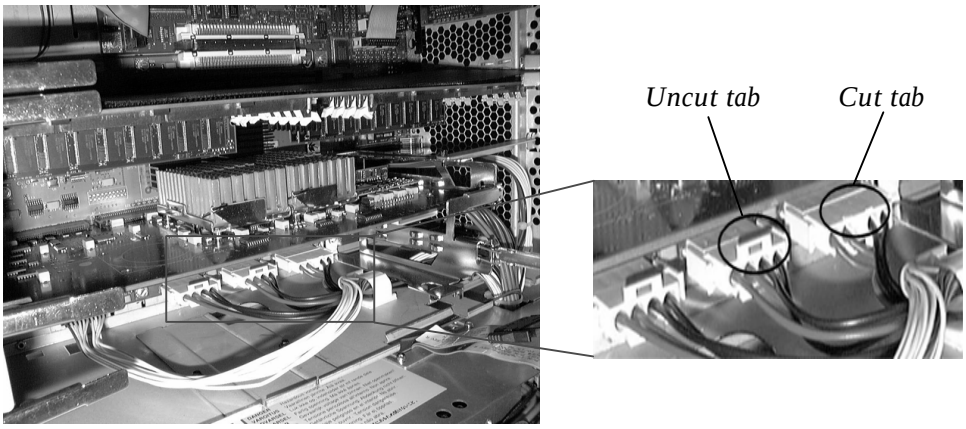
To upgrade the Brisque^{2} DFE to the Brisque^{4} DFE you must insert a second CPU card, which contains two additional CPU units.

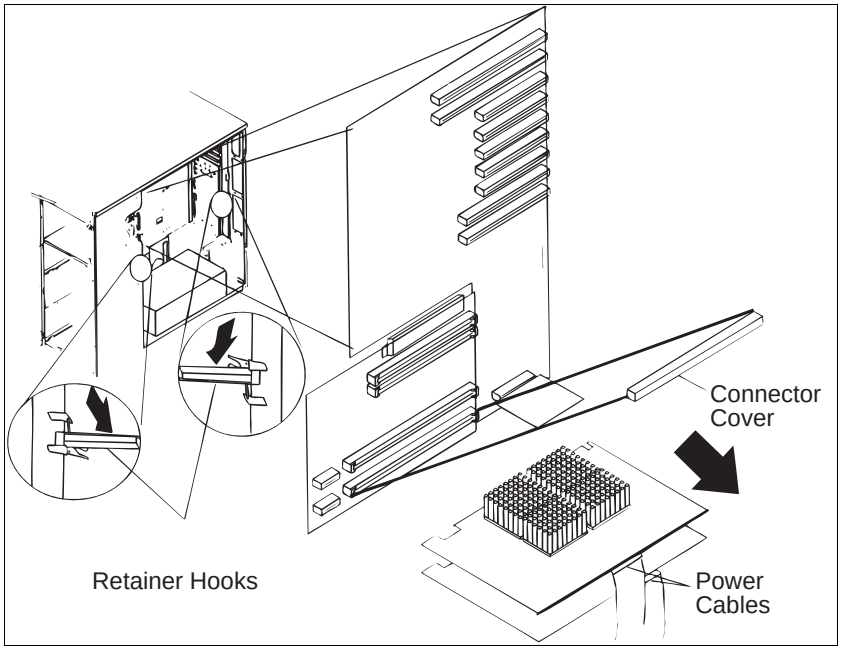
To add an additional CPU Card:

1. Remove the power cable from the existing CPU card by squeezing the tabs.
2. Open the retainer hooks and carefully remove the existing CPU card. Place the CPU card in a safe location.

Warning: Immediately below the bottom CPU card slots are a series of wires connected by three white plastic connectors. On top of each connector is a tab. The tab on the rightmost connector interferes with the capacitors on the bottom of the new CPU board and causes them to break.

3. With a knife, carefully cut the tab on white plastic connector furthest to the right and remove it. See the photograph below. Take care not to cut into any wires.
   This will provide enough space for the CPU board to fit into place.





4. Open the retainer hooks on the lowest CPU card slot.

5. Remove the connector cover from the lowest CPU card slot.
6. Place the new CPU card in the card guide rails.
7. Make sure that the retainer hooks capture the black tabs on the new card.
8. Align the card with the connectors.
9. Close the retainer hooks to set the cards.
10. Connect the **power cable** to the new CPU card by squeezing the tabs. The cable will click when connected properly.

Note: You are only connecting the power cable to the CPU card, NOT the power cord to the F50.

11. Return the original CPU card to its location by repeating steps 6 through 10.

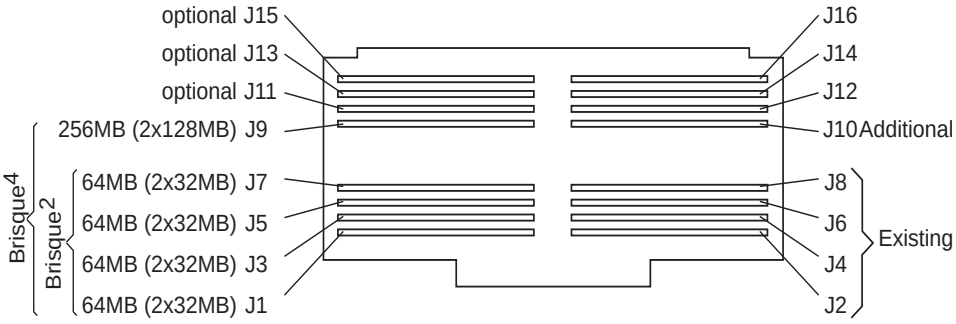
Ensure that the power cables come out vertically from the power supply and that they are pushed back and out of the way so that the I/O planar cover can be installed.

2.5 Upgrading the RAM Memory to 512 MB

In order to run the two additional CPUs; you need to upgrade the system's memory by installing *memory modules* on to an existing memory adapter card. The F50 uses 200-pin, dual inline Error Correcting Code (ECC) memory modules (DIMMs) to increase the memory.

You install memory modules into connectors on the memory card located inside the F50. The Brisque^{2} DFE already contains memory modules in the first 4 pairs of connectors, for a total of 256 MB of RAM. You need to add an additional 256 MB of RAM by adding the two 128 MB memory modules into the 5th pair of connectors (J9 and J10).

Note: If the Brisque DFE's memory has previously been upgraded, insert the new memory modules into the first pair of unoccupied connectors.



Memory Module Location

Important: Memory modules must be installed in identical pairs.

In order to upgrade the RAM memory to 512 MB, you need to:

1. Insert the two additional memory modules into the memory card.
2. Replace the covers on the Brisque DFE.

2.5.1 Handling Static-Sensitive Devices

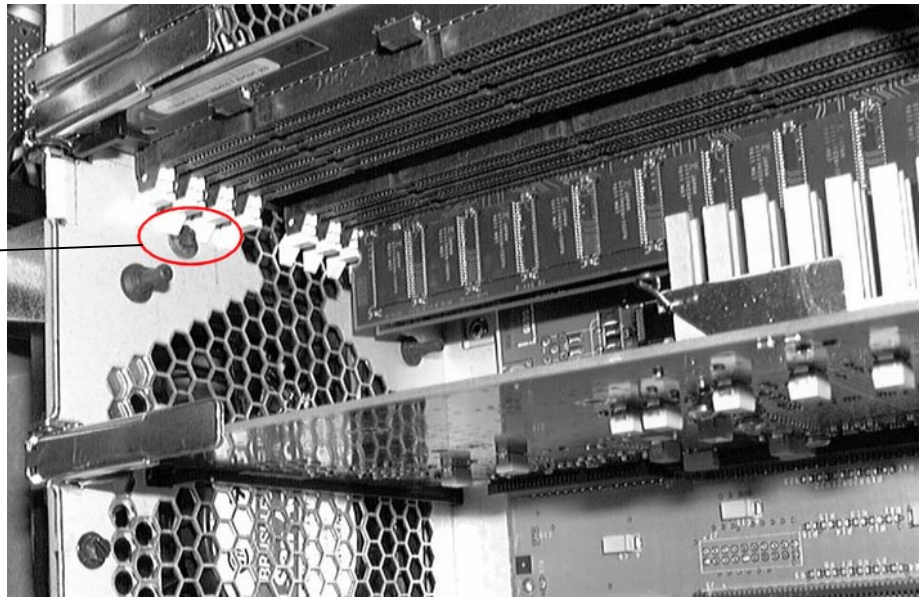
Similar to the CPU card, the memory modules are sensitive to static electricity discharge. Exposure to static electricity may cause damage to the memory modules. Take the same precautions with the memory modules as were advised with the CPU card (see *Handling Static-Sensitive Devices* on page 5).

2.5.2 Procedures for Upgrading the memory

1. Remove the memory card shield positioned over the bottom of the memory card.

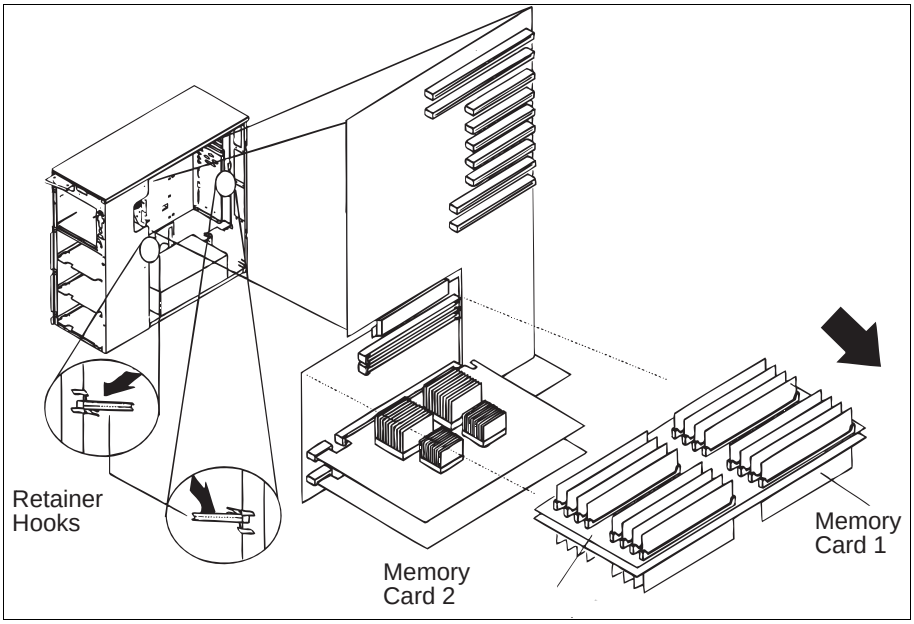
Warning: Three rubber pins for the fan cover are located immediately below the memory card. The second pin from the left side (the open-end) of the computer (the pin closest to the memory board) interferes with the memory board when you slide it out and causes the memory module locking tabs to break.

2. With a knife cut the stem of second rubber fan pin down to the head. Make a crosswise cut on the head and remove the top half of the pin's head.



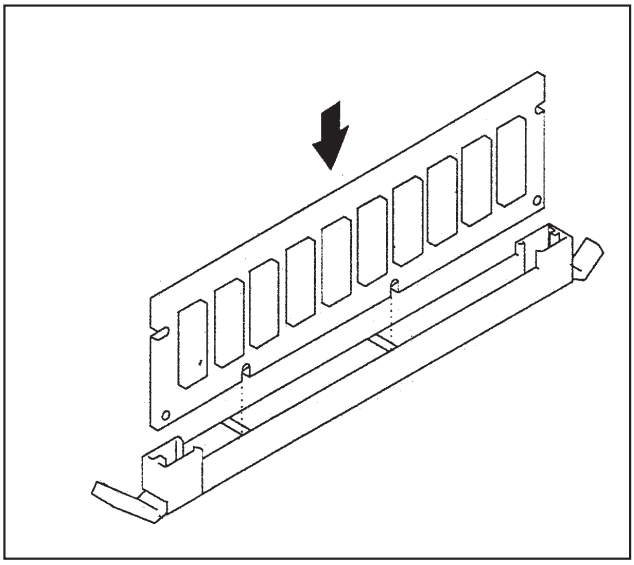
Important: Cut only the top half of the pin's head. Removal of more of the pin, or total removal of the pin, may cause damage to the F50.

3. The memory card is secured in place with card retainer hooks, one on each end of the card. Open the card retainer hooks and remove the memory card. Make sure that all the tabs are in the locked position prior to removing the memory card.
4. Locate the memory module connectors J9 and J10. Open the tabs to these connectors so that they are in the unlocked position prior to memory module insertion.



Note. Memory Card 2 does not exist in the Brisque DFE. In the unlikely event that the existing memory card is completely filled and there are no remaining slots for the two new memory modules, see *Installing or Adding Memory Adapter Cards* in the **IBM RS/6000 User's Guide**, pages 5-20 to 5-21 for instructions on how to add Memory Card 2.

5. With one hand, touch any metal surface of the F50 chassis to minimize static electricity charges, and then pick up the memory module.
6. Install the two F50 memory modules. The memory modules are keyed so that they can only be inserted in one way.
    a. Align the memory module notches with the keys in the memory module connectors.
    b. Push down on the memory modules until the locking tabs snap into place. (Do not attempt to move the locking tabs yourself. They will lock automatically when you have fully inserted the memory module).



Important: Inserting the memory modules at an angle may damage the memory modules.

7. Align the card with the connectors and slide it back into place.
8. Close the retainer hooks to set the card.
9. Reinstall the memory shield on the bottom memory card.

2.5.3 How to Replace the Covers

Note: Refer to the *Replacing Covers* section in the **IBM RS/6000 User's Guide**, pages 5-95 to 5-100 for more detailed information on how to replace the covers.

1. Replace the I/O planar cover:
   a. Place the lip at the top of the I/O planar cover over the top of the Brisque DFE adapter housing. Push the bottom of the I/O planar cover in, aligning the key on the Brisque with the key slot on the cover. Replace the I/O planar cover.

b. Latch the cover and tighten the screws.

2. Replace the side cover:

   a. Align the pins on the rear of the side cover with the hinges on the rear of the Brisque DFE. Open the cover to a 90° angle.

   b. Slide the cover down.

   c. Push the side cover to close it.

3. Reinstall the front cover:

Note: Before installing the front cover, verify that the side cover is installed correctly. If the side cover is not properly installed, the front cover will not align correctly when you attempt to install it.

   a. Align the bottom of the front cover with the bottom of the F50.

   b. Fit the front cover's bottom hooks into the grooves located on the bottom of the F50.

   c. Make sure the keylock is in the unlocked position.

   d. Pivot the front cover upwards and press the top of the cover into the top of the system until they snap together and the latch on the left side catches.

   e. Lock the keylock on the front cover.

   f. Close the latch located on the left side of the front cover.

4. Reinstall the door at the front of the system by aligning the pins with the hinges, and sliding the door down. Close the door.

2.6 Update Paging Space Parameters on the Brisque DFE

Updating paging space is necessary to increase the paging space size that is required after installing extra memory modules. The updating is done using **SciSMIT** on the Brisque DFE.

To update the paging space parameters you need to:

1. Reconnect the Brisque DFE.
2. Use the **updating paging space** feature on *SciSMIT*.
3. Update the licensing information on *SciSMIT*.

2.6.1 To Reconnect the Brisque DFE

1. Reconnect all cords and cables to the rear of the unit.
   After plugging the Brisque DFE into the power supply, wait for the Operator Panel Display on the front of the Brisque DFE to display <OK>.
2. Turn on the Brisque DFE. Make sure to notice on the *Welcome to AIX* screen that the number of processors now equals four and the size of the memory is 512 MB.
3. Log on the Brisque DFE as root.

2.6.2 To Update the Paging Space Parameter

1. From the *SciSMIT* menu execute the following menu sequence: **Devices→Paging Space→Updating Paging Space** and then click **OK**. This will automatically update the paging space to its new capacity. For example, if your memory size is 512 MB, the paging space should be 832.

Check the Brisque DFE information to see the new page space size.

- At the UNIX prompt type **bootinfo –r** for the memory capacity (in bytes) and type **lsps –a** for paging space size.

- For Brisque DFE version 3.0 or greater, you can see the memory capacity and page space size by accessing the *SciSMIT* menu and selecting **Information** and then **Station Information**.

2.6.3 Entering the Upgrade Password

The upgrade from Brisque^2 DFE to Brisque^4 DFE activates only after you supply licensing password supplied by Scitex. You should already have this password prior to initiating the upgrade, and now you need to enter it into the Brisque^4 DFE.

To enter the password necessary to upgrade from Brisque^2 to Brisque^4 :

1. If not already done, call Scitex Service Center to receive the upgrade license password.
2. From the *SciSMIT* menu click on **licensing** and then **update options**.
3. Choose the current model of the Brisque (marked with a **+** sign).
4. Move the cursor to *4 CPU* option and change to **yes** by pressing the *tab* key.
5. Move the cursor to **password options**; hit **Enter**.
6. Type in a new password and then hit **Enter**.
7. Press the *F3* key to exit from the password options screen.
8. Choose **activate password** and hit **Enter**. After a few moments it will say <OK>. If you do not get the OK, return to password option screen and retype the password.
9. Exit from *SciSMIT*.

2.7 Attaching the Brisque[4] stickers

The enclosed labeling kit contains a Brisque[4] nameplate, a Brisque[4] sticker, and a centering template. The template is used to position the nameplate in its proper location on the monitor. Use the included instructions for further attaching information. An additional nameplate and sticker are included to be attached to the front cover of the F50 computer.

To apply the Brisque[4] stickers:

1. On the top of the monitor, carefully pry off the Brisque[2] nameplate. Be careful not to scratch the finishing on the monitor.
2. Use the template to position the new nameplate in its proper location on the monitor. Remove the backing from the Brisque[4] nameplate and stick it firmly onto the monitor.
3. Remove the Brisque[2] sticker on the bottom of the monitor and carefully apply the Brisque[4] sticker in its place.
4. On the F50 computer unit remove the Brisque[2] nameplate. Apply the Brisque[4] nameplate in the same location where the Brisque[2] nameplate was.
5. Remove the Brisque[2] sticker from the F50 computer unit and apply the Brisque[4] sticker in its place.