



GE Medical Systems

Technical Publications

**Direction 2282091
Revision 1**

Signa® Octane 9 GB Disk Drive Upgrade

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Operating Documentation

DAMAGE IN TRANSPORTATION

All packages should be closely examined at time of delivery. If damage is apparent, have notation "**damage in shipment**" written on **all** copies of the freight or express bill **before** delivery is accepted or "signed for" by a General Electric representative or a hospital receiving agent. Whether noted or concealed, damage **MUST** be reported to the carrier **immediately** upon discovery, or in any event, within **14** days after receipt, and the contents and containers held for inspection by the carrier. A transportation company will not pay a claim for damage if an inspection is not requested within this **14** day period.

Immediately complete a "Damage Loss Claim Form", available via MS Exchange Mail, after the damage is found.

MS Exchange Path:

Outlook/Public Folder/All Public Folders/Medical Systems/!Global Initiatives/Information Management/Forms/Common Forms/DAMAGE LOSS CLAIM FORM.

Send the completed form to the email address listed in the form.

For more information about the Transportation Claim Procedure, access the GE Medical Systems Intranet and enter the following URL address (case sensitive):

<ftp://3.87.40.2/globepro/qualsys/Docs/190016MF.PDF>

Rev. 11/15/2000

Direction 2128126 - Language Policy For Service Documentation, Rev 0



WARNING

- THIS SERVICE MANUAL IS AVAILABLE IN ENGLISH ONLY.
- IF A CUSTOMER'S SERVICE PROVIDER REQUIRES A LANGUAGE OTHER THAN ENGLISH, IT IS THE CUSTOMER'S RESPONSIBILITY TO PROVIDE TRANSLATION SERVICES.
- DO NOT ATTEMPT TO SERVICE THE EQUIPMENT UNLESS THIS SERVICE MANUAL HAS BEEN CONSULTED AND IS UNDERSTOOD.
- FAILURE TO HEED THIS WARNING MAY RESULT IN INJURY TO THE SERVICE PROVIDER, OPERATOR OR PATIENT FROM ELECTRIC SHOCK, MECHANICAL OR OTHER HAZARDS.



AVERTISSEMENT

- CE MANUEL DE MAINTENANCE N'EST DISPONIBLE QU'EN ANGLAIS.
- SI LE TECHNICIEN DU CLIENT A BESOIN DE CE MANUEL DANS UNE AUTRE LANGUE QUE L'ANGLAIS, C'EST AU CLIENT QU'IL INCOMBE DE LE FAIRE TRADUIRE.
- NE PAS TENTER D'INTERVENTION SUR LES ÉQUIPEMENTS TANT QUE LE MANUEL SERVICE N'A PAS ÉTÉ CONSULTÉ ET COMPRIS.
- LE NON-RESPECT DE CET AVERTISSEMENT PEUT ENTRAÎNER CHEZ LE TECHNICIEN, L'OPÉRATEUR OU LE PATIENT DES BLESSURES DUES À DES DANGERS ÉLECTRIQUES, MÉCANIQUES OU AUTRES.



WARNUNG

- DIESES KUNDENDIENST-HANDBUCH EXISTIERT NUR IN ENGLISCHER SPRACHE.
- FALLS EIN FREMDER KUNDENDIENST EINE ANDERE SPRACHE BENÖTIGT, IST ES AUFGABE DES KUNDEN FÜR EINE ENTSPRECHENDE ÜBERSETZUNG ZU SORGEN.
- VERSUCHEN SIE NICHT, DAS GERÄT ZU REPARIEREN, BEVOR DIESES KUNDENDIENST-HANDBUCH NICHT ZU RATE GEZOGEN UND VERSTANDEN WURDE.
- WIRD DIESE WARNUNG NICHT BEACHTET, SO KANN ES ZU VERLETZUNGEN DES KUNDENDIENSTTECHNIKERS, DES BEDIENERS ODER DES PATIENTEN DURCH ELEKTRISCHE SCHLÄGE, MECHANISCHE ODER SONSTIGE GEFAHREN KOMMEN.



AVISO

- ESTE MANUAL DE SERVICIO SÓLO EXISTE EN INGLÉS
- SI ALGÚN PROVEEDOR DE SERVICIOS AJENO A GEMS SOLICITA UN IDIOMA QUE NO SEA EL INGLÉS, ES RESPONSABILIDAD DEL CLIENTE OFRECER UN SERVICIO DE TRADUCCIÓN.
- NO SE DEBERÁ DAR SERVICIO TÉCNICO AL EQUIPO, SIN HABER CONSULTADO Y COMPRENDIDO ESTE MANUAL DE SERVICIO.
- LA NO OBSERVANCIA DEL PRESENTE AVISO PUEDE DAR LUGAR A QUE EL PROVEEDOR DE SERVICIOS, EL OPERADOR O EL PACIENTE SUFRAN LESIONES PROVOCADAS POR CAUSAS ELÉCTRICAS, MECÁNICAS O DE OTRA NATURALEZA.

ATENÇÃO

- ESTE MANUAL DE ASSISTÊNCIA TÉCNICA SÓ SE ENCONTRA DISPONÍVEL EM INGLÊS.
- SE QUALQUER OUTRO SERVIÇO DE ASSISTÊNCIA TÉCNICA, QUE NÃO A GEMS, SOLICITAR ESTES MANUAIS NOUTRO IDIOMA, É DA RESPONSABILIDADE DO CLIENTE FORNECER OS SERVIÇOS DE TRADUÇÃO.
- NÃO TENHA TENTADO REPARAR O EQUIPAMENTO SEM TER CONSULTADO E COMPREENDIDO ESTE MANUAL DE ASSISTÊNCIA TÉCNICA.
- O NÃO CUMPRIMENTO DESTA AVISO PODE POR EM PERIGO A SEGURANÇA DO TÉCNICO, OPERADOR OU PACIENTE DEVIDO A CHOQUES ELÉTRICOS, MECÂNICOS OU OUTROS.

AVVERTENZA

- IL PRESENTE MANUALE DI MANUTENZIONE È DISPONIBILE SOLTANTO IN INGLESE.
- SE UN ADDETTO ALLA MANUTENZIONE ESTERNO ALLA GEMS RICHIEDE IL MANUALE IN UNA LINGUA DIVERSA, IL CLIENTE È TENUTO A PROVVEDERE DIRETTAMENTE ALLA TRADUZIONE.
- SI PROCEDA ALLA MANUTENZIONE DELL'APPARECCHIATURA SOLO DOPO AVER CONSULTATO IL PRESENTE MANUALE ED AVERNE COMPRESO IL CONTENUTO.
- NON TENERE CONTO DELLA PRESENTE AVVERTENZA POTREBBE FAR COMPIERE OPERAZIONI DA CUI DERIVINO LESIONI ALL'ADDETTO ALLA MANUTENZIONE, ALL'UTILIZZATORE ED AL PAZIENTE PER FOLGORAZIONE ELETTRICA, PER URTI MECCANICI OD ALTRI RISCHI.

警告

- ・このサービスマニュアルは英語版しかありません。
- ・GEMS以外でサービスを担当される業者が英語以外の言語を要求される場合、翻訳作業はその業者の責任で行うものとさせていただきます。
- ・このサービスマニュアルを熟読し、理解せずに装置のサービスを行わないでください。
- ・この警告に従わない場合、サービスを担当される方、操作員あるいは患者さんが、感電や機械的又はその他の危険により負傷する可能性があります。

注意:

- 本维修手册仅存有英文本。
- 非 GEMS 公司的维修员要求非英文本的维修手册时，客户需自行负责翻译。
- 未详细阅读和完全了解本手册之前，不得进行维修。
- 忽略本注意事项会对维修员，操作员或病人造成触电，机械伤害或其他伤害。

REVISION HISTORY

<u>REV</u>	<u>DATE</u>	<u>PRIMARY REASON FOR CHANGE</u>
0	May 10, 2000	Initial version for Release.
1	July 26, 2001	Added a Caution, page 8 section 1 caution the user that a load from cold cannot be performed on a system with two 9 gigabyte disks drives installed.

<u>PAGE</u>	<u>REV</u>	<u>PAGE</u>	<u>REV</u>	<u>PAGE</u>	<u>REV</u>	<u>PAGE</u>	<u>REV</u>
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1-16.....	1						

* This revision/letter corresponds to the indicated document's revision control system.

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INTRODUCTION

Catalog number M3000JB allows Signa customers to increase image capacity by adding a second 9 GB hard drive to SGI Octane computers previously using a single 9 GB drive. Or replacing a 4 GB drive if the SGI Octane computer is using two 4 GB drives.

Signa software levels 8.3 and above or ASP is required.

Only 4 possible configurations of disk drives are allowed on the Signa Scanner using an SGI Octane host computer.

1. Normal shipped configuration. The bottom disk drive slot contains a 9 GB disk drive and the middle and top slot is empty.
2. Catalog M3000JB applied. The bottom disk drive slot contains a 9 GB disk drive and the middle slot also contains a 9 GB drive. The top slot is empty.
3. Normal shipped configuration. The bottom disk drive slot contains a 4 GB disk drive and the middle slot also contains a 4 GB drive. The top slot is empty.
4. Catalog M3000JB applied. The bottom disk drive slot contains a 4 GB disk drive and the middle slot contains a 9 GB drive. The top slot is empty.

If the computer being upgraded is already using a single 9 GB disk drive, the new drive is simply added and configured for use. The upgrade should only take 30 minutes. See section 1.

If the computer being upgraded is using two 4 GB disk drives, a software load from cold will have to be performed after adding the second drive. Allow three hours to perform the upgrade. See section 2.

1- UPGRADING SGI OCTANE COMPUTERS IF ALREADY USING A SINGLE 9 GB HARD DRIVE

This section assumes the host computer is already loaded with scanning software.



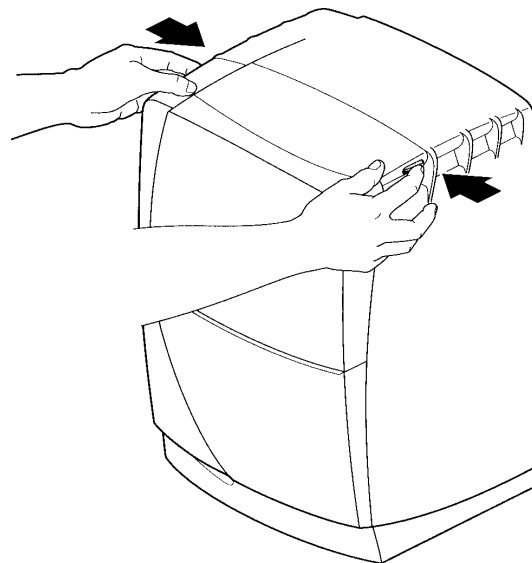
Signa Load from cold procedures cannot be run on systems with two 9 Gigabyte disk drives installed. Disk partition errors will result leaving no space for patient images after the load from cold. If a Load from cold must be done, remove the second disk drive (middle slot) before beginning. After completing the load from cold, reinstall the second disk drive using the procedure in this section.

1-1 Powering Off the OCTANE Workstation

1. Log out from host computer.
2. Open the front cover of the workstation and push the power button to turn off power.
3. Unplug the power cord from the electrical outlet and from the OCTANE workstation.
4. Turn off monitor by pressing the monitor power button.

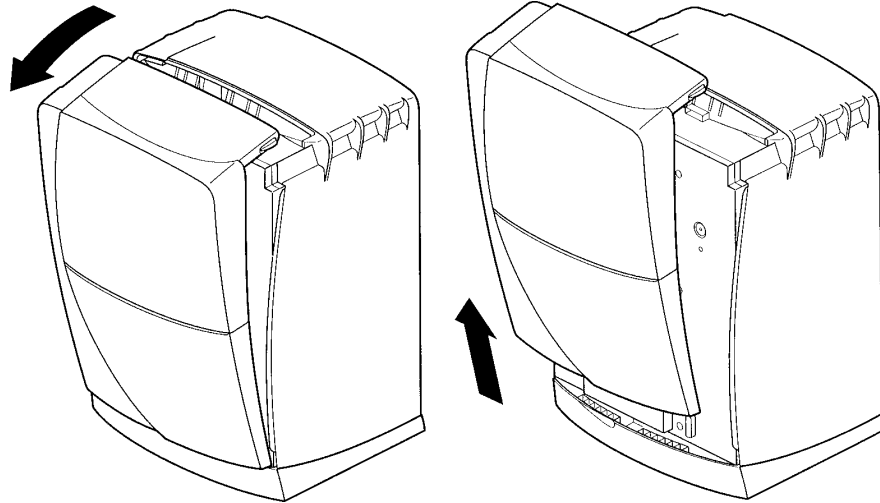
1-2 Removing the Bezel

1. The front cover door should be closed.
2. Locate bezel release buttons.
3. Press both bezel release buttons. See Illustration 1-1.



BEZEL RELEASE BUTTONS
ILLUSTRATION 1-1

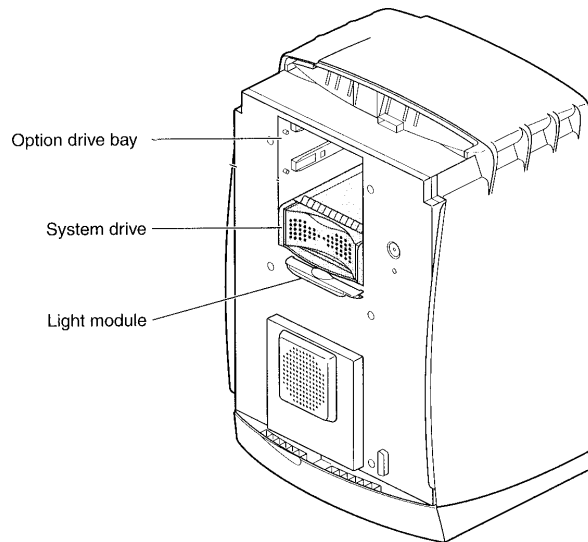
4. Remove bezel by tilting it forward, then lifting it from its release hooks at the bottom. See Illustration 1-2.



REMOVING BEZEL
ILLUSTRATION 1-2

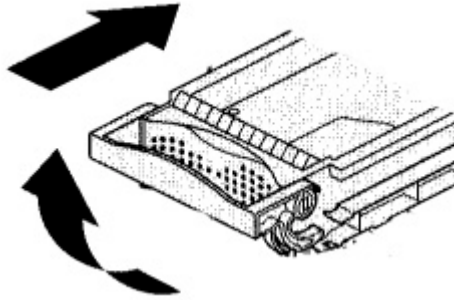
1-3 Installing Option Drive

The option drive bay is the middle drive bay; Signa configurations do not use the top drive bay. See Illustration 1-3.



DRIVE BAYS
ILLUSTRATION 1-3

1. Lift the handle on the drive to a horizontal position, See Illustration 1-4. Then slide the drive into the middle drive bay.

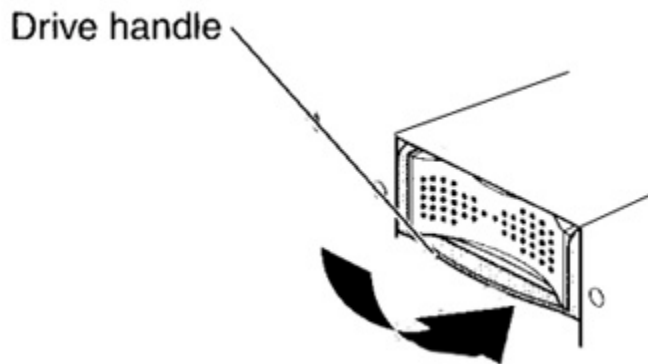


LIFT HANDLE AND SLIDE INTO MIDDLE BAY
ILLUSTRATION 1-4



Pushing the drive into the frontplane using excessive force can damage the drive.

2. Slide the drive in gently until you feel resistance. The drive is connected to the frontplane when the front of the drive is flush with the chassis.
3. With the drive completely inserted, rotate the handle downward to lock the drive in the workstation. See Illustration 1-5.



PUSH HANDLE DOWN TO LOCK
ILLUSTRATION 1-5

4. Reinstall the front bezel onto the computer.
5. Reapply power to the computer and monitor and boot the system to the Signa scanning level.
6. Go to the service Desktop and press the **[Guided Install]** button. Select FE mode and push **[Start]** to start the Install GUI. See Illustration 1-6.

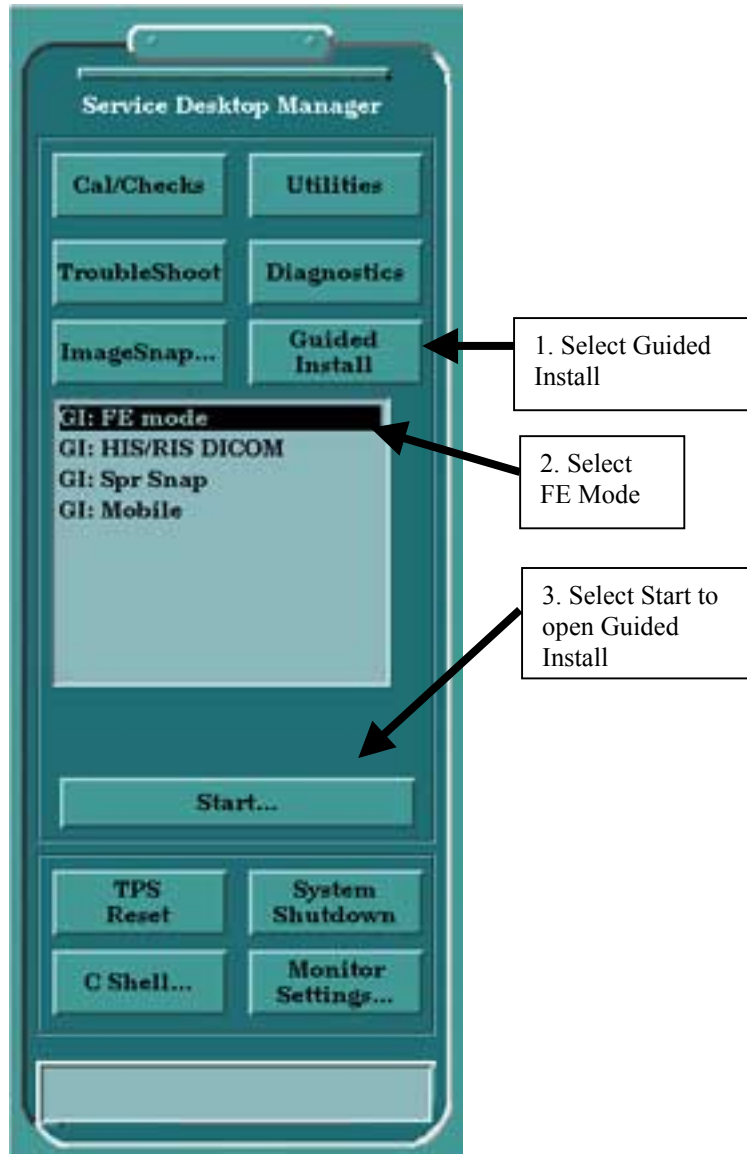


ILLUSTRATION 1-6
STARTING GUIDED INSTALL

7. After the Guided Install has started, select the Service SW/2nd Image Disk/InSite tab. See Illustration 1-7.

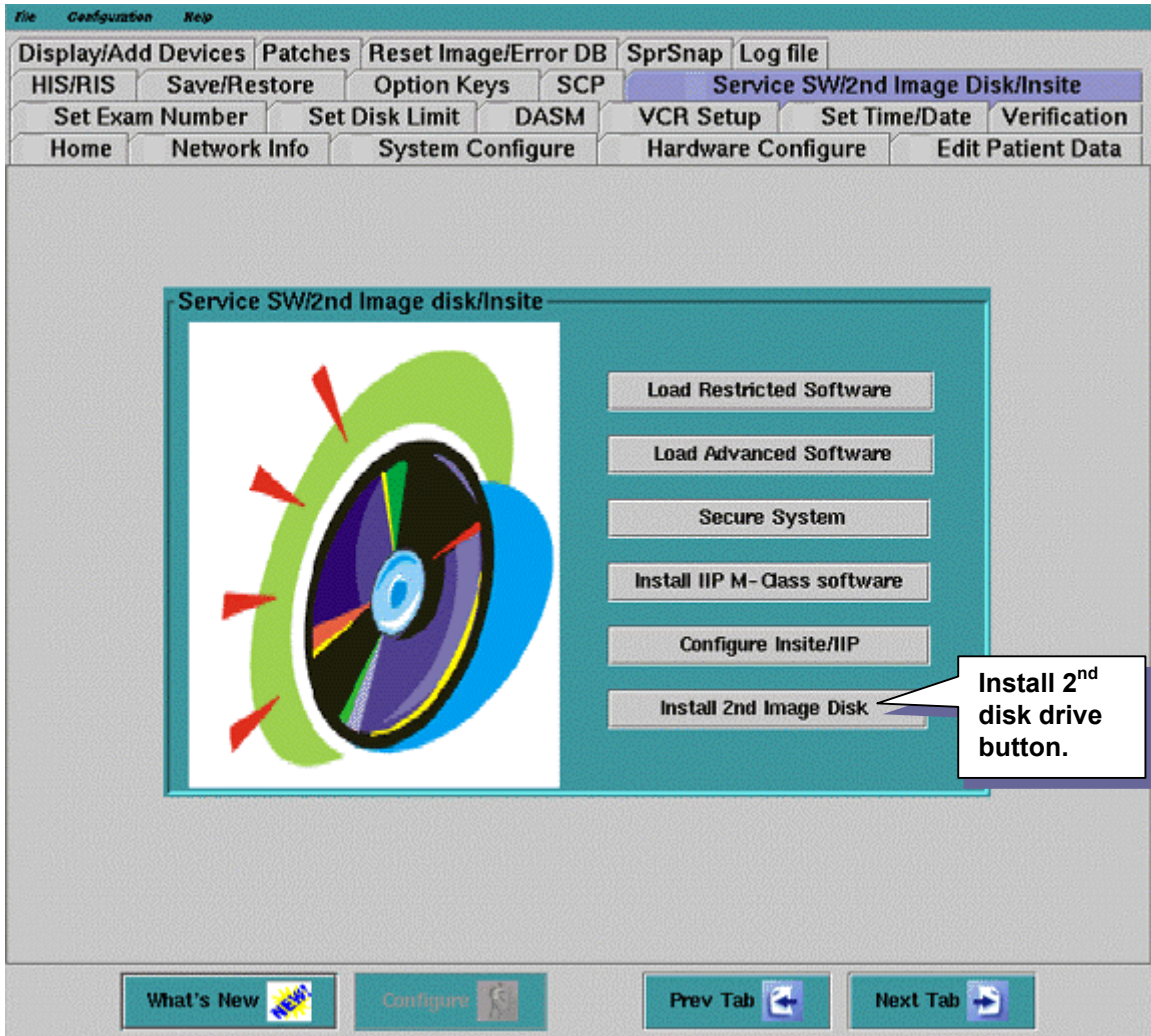


ILLUSTRATION 1-7
SERVICE SW/2ND IMAGE DISK/INSITE TAB

8. Press the **[Install Second Image Disk]** button. The process takes less than two minutes.
9. Once completed, exit Guided Install and reboot Signa.
10. The upgrade is complete.

2- UPGRADING SGI OCTANE COMPUTERS IF TWO 4 GB DISK DRIVES ARE PRESENT

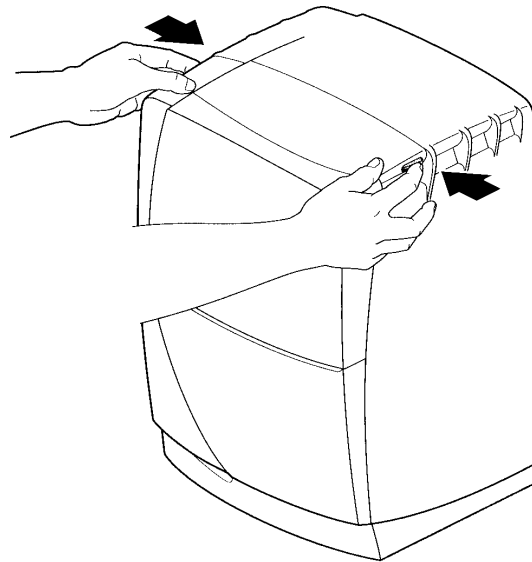
Before beginning, refer to the "Signa 8.3 and ASP Software Load Procedure" on service CD 2160623. Perform all prerequisites to loading software before beginning. Be sure to create a new Saveinfo. Record all options.

2-1 Powering Off the OCTANE Workstation

1. Log out from host computer.
2. Open the front cover of the workstation and push the power button to turn off power.
3. Unplug the power cord from the electrical outlet and from the OCTANE workstation.
4. Turn off monitor by pressing the monitor power button.

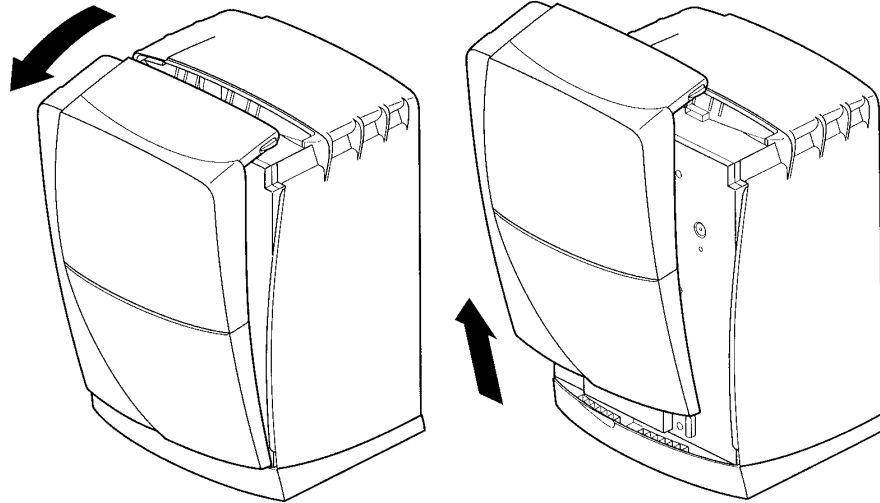
2-2 Removing the Bezel

1. The front cover door should be closed.
2. Locate bezel release buttons.
3. Press both bezel release buttons. See Illustration 2-1.



BEZEL RELEASE BUTTONS
ILLUSTRATION 2-1

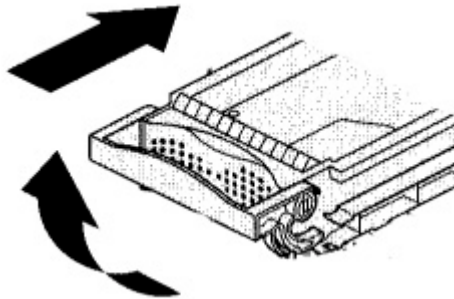
4. Remove bezel by tilting it forward, then lifting it from its release hooks at the bottom. See Illustration 2-2.



REMOVING BEZEL
ILLUSTRATION 2-2

2-3 Remove The Center Disk Drive

1. Locate the center disk drive.
2. Raise handle to horizontal position. See Illustration 2-3.

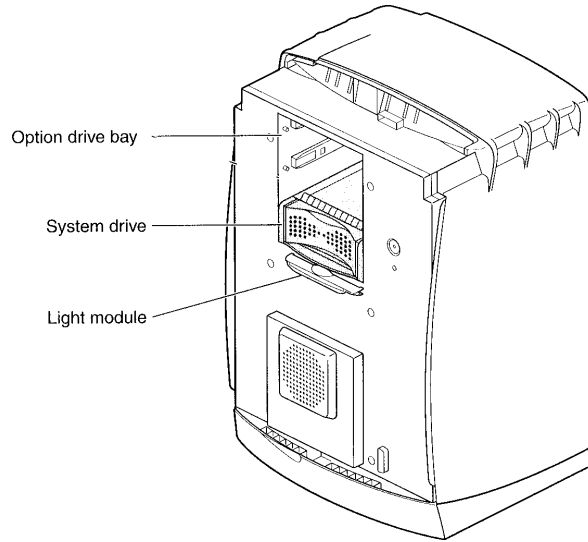


DRIVE HANDLE LOCATION
ILLUSTRATION 2-3

3. Pull the center drive out the OCTANE workstation. Leave the lower drive in place.

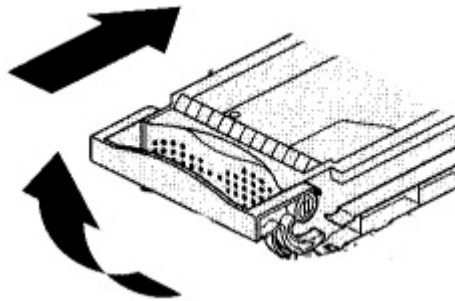
2-4 Installing Option Drive

The option drive bay is the middle drive bay, Signa configurations do not use the top drive bay. See Illustration 2-5.



DRIVE BAYS
ILLUSTRATION 2-5

2. Lift the handle on the drive to a horizontal position, and slide the drive into the drive bay. See Illustration 2-6



INSERTING DRIVE INTO MIDDLE BAY
ILLUSTRATION 2-6

CAUTION

Pushing the drive into the frontplane using excessive force can damage the drive.

4. Slide the drive in gently until you feel resistance. The drive is connected to the frontplane when the front of the drive is flush with the chassis.
5. With the drive completely inserted, rotate the handle downward to lock the drive in the workstation. See Illustration 2-7.

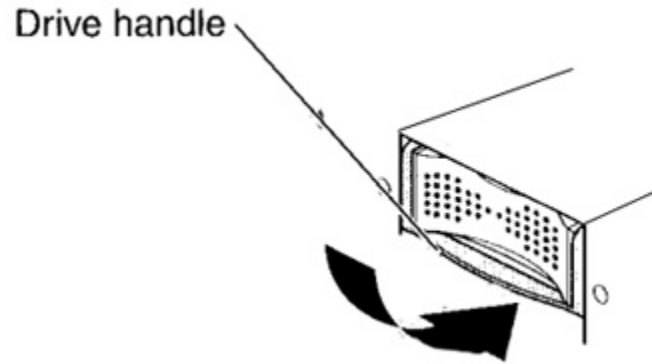
**DRIVE HANDLE LOCATION**

ILLUSTRATION 1-6

5. Reinstall the front bezel onto the computer.
6. Reapply power to the computer and monitor.

Refer to the appropriate Load From Cold procedure on service CD 2160623 and load the system software. The new drive will be configured during the load. After the software load, the upgrade is completed.