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## 1- BEFORE STARTING ANY WORK ON THE WORKSTATION CABINET

### 1-1 Remove Power From The Operator Workspace Cabinet



**FATAL ELECTRIC SHOCK HAZARD!! ENSURE THAT POWER IS OFF TO THE INVOLVED UNITS BEFORE STARTING ANY PROCEDURE IN THIS DOCUMENT.**

1. Log out from Host Computer.
2. Shut down the Host Computer.
3. Select **[Start]** from the lower left corner and select "Shutdown" from the menu. Then, select "Shutdown the Computer" and press **[Yes]**.
4. As applicable, open the circuit breaker(s) that power the Operator Workspace to turn power off.
5. Lock and tag the circuit breaker(s). (Refer to CD-ROM *Dir. 2187583-3 [or -2], MR Release Signa 5x/8x Service Methods, Renewal Parts and Service Tools, Safety, Section 6, OSHA LOCKOUT/TAGOUT REQUIREMENTS.*)
6. Open computer cabinet door and verify that power is off by twice pressing (on/off) the Host Computer power button; the LED should remain off

### 1-2 ESD Precautions and Tools



**Use proper ESD precautions when working on this hardware. The components within the cabinet may be ESD sensitive and damage will occur to the hardware if proper ESD measures are not followed.**

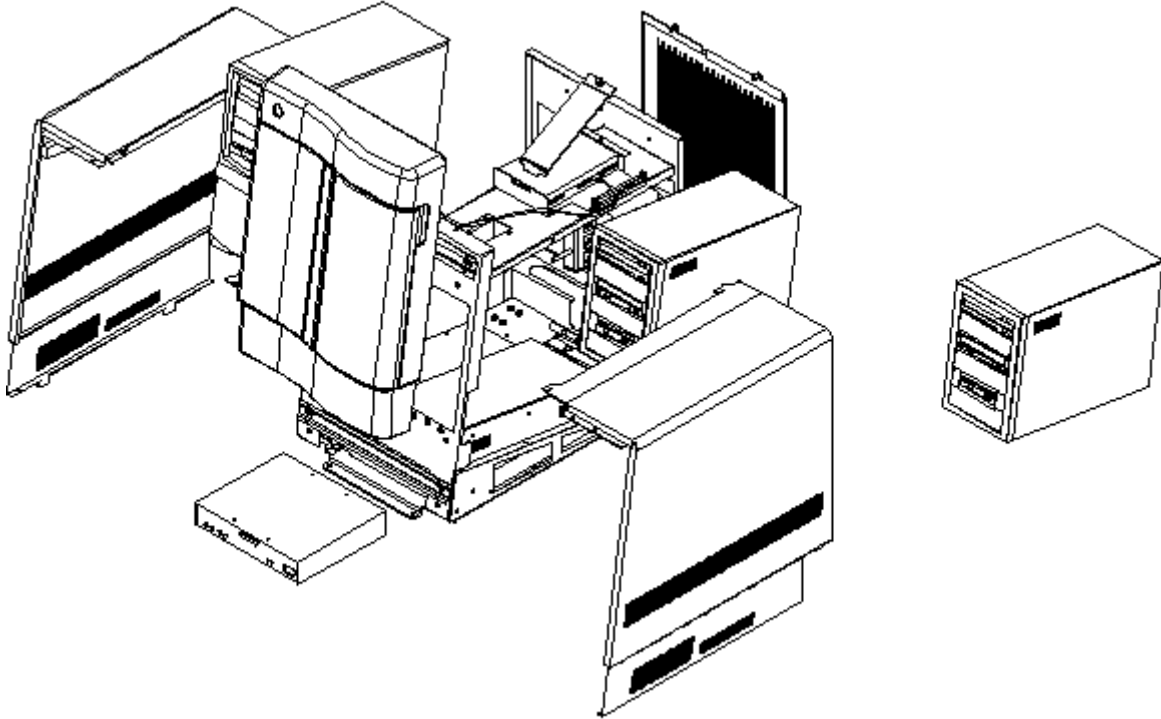
Tools Required:

Standard ESD Kit:

- Wrist Ground Strap.
- Red Ground Mat.
- ESD Storage Bag.

## 2- OPERATOR WORKSPACE CABINET

The Operator Workspace Cabinet houses the Security Key, PC, Model 800 Hub, Bit3 Fiber Optic Interface, the AC Power Distribution Box, and the SCSI Expansion Box.



**OPERATOR WORKSPACE CABINET**  
ILLUSTRATION 2-1

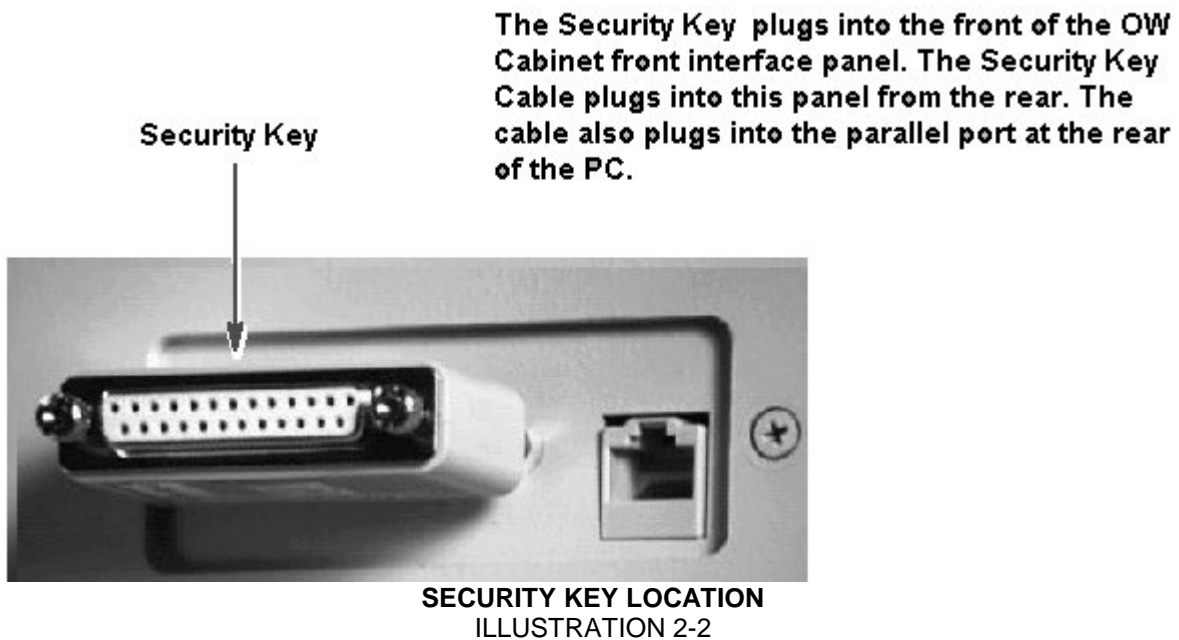
### 2-1 Security Key Cable Replacement

#### 2-1-1 Tools Required

- Small flat head screwdriver
- Small Phillips screwdriver
- Small wrench
- Container for screws

### 2-1-2 Removal Procedures

1. Locate the existing Security Key Cable on the left front of the Workspace cabinet. See Illustration 2-2.



2. Unscrew the connector screws and remove the Security Key.
3. At the front of the cabinet, unscrew the two nuts located on either side of the Security Key connector. Then pull the connector and cable out from the rear of the front cabinet.
4. Follow the cable to a second connector at the rear bottom of the PC.
5. Unscrew the cable connector to release the cable.
6. Set the old key/cable aside.

### 2-1-3 Installation Procedures

1. Remove the replacement Security Key Cable from the ESD Storage Bag and/or original carton, as applicable.
2. At the rear bottom of the PC, locate the original Security Key Cable connector.
3. Reinstall the replacement Security Key Cable connector to the port and tighten the connector screws. Then extend the cable to the front of the cabinet.
4. At the rear of the front cabinet, reinstall the connector and cable.
5. Re-screw the two nuts located on either side of the Security Key Cable connector.
6. Reinstall the Security Key connector and tighten the screws.
7. Place the old Security Key Cable in the ESD Storage Bag and/or original carton, as applicable.

## 2-2 PC Replacement

### 2-2-1 Tools Required

- Medium Phillips screwdriver
- Small flat head screwdriver

### 2-2-2 Removal Procedures

1. Disconnect all external cables on the rear of the PC located on the left side of the Operator workspace cabinet.
2. Unscrew the two screws from the metal bracket (screws remain with the bracket). Refer to Illustration 2-3.



**PC BRACKET**  
ILLUSTRATION 2-3

3. Remove the bracket (pull away upper half to release the bottom hook).
4. To remove the PC from the cabinet, pull the PC out of the side of the cabinet.
5. Set the old PC aside.

### 2-2-3 Installation Procedures

1. Remove the replacement PC from the ESD Storage Bag and/or original carton, as applicable.
2. Pick up the PC and slide it into the middle of the cabinet. Gently lift up the back of the unit and slide it towards the front of the cabinet until the PC is flush with the front of the cabinet.
3. Replace the holding bracket so that the screw holes align with the bracket. Be sure to have the bracket hook attached to the cabinet. Screw the bracket into place.
4. Reconnect all external cables on the rear of the PC.
5. Return power to unit.
6. See the Procedure for Software Install/Configure LX 8.2 Host and PC.
7. Place the old PC in the ESD Storage Bag and/or original carton, as applicable.

### 2-3 Model 800 Hub Replacement

Remove the Front Cover, the SCSI Box Side Cover, and the PC Side Cover of the OW Cabinet as shown in Appendix A of this document.

#### 2-3-1 Tools Required

- Medium Phillips screwdriver
  - Small flat head screwdriver
- Container for screws

#### 2-3-2 Removal Procedures

1. Locate the Model 800 Hub on the right side of the Operator Workspace cabinet, above the SCSI Expansion Box.
2. On the top of the Hub, remove the holding bracket (screws remain with bracket) and set the bracket aside. Refer to Illustration 2-4.
3. On the front of the Hub, unscrew the two screws located on either end of the cable clamp. Set the cable clamp aside.
3. Disconnect the external cables located on the front and rear of the Hub.
4. Lift the old Hub out of the bracket shelf and set aside.

### 2-3-3 Installation Procedures

1. Remove the replacement Model 800 Hub from the ESD Storage Bag and/or original carton, as applicable.
2. On the Hub, reconnect the external cables located on the front and rear of the unit.
3. Reinstall the Hub so that it is level and flush with the back of the bracket shelf.



**LAN HUB BRACKET AND CLAMP**  
ILLUSTRATION 2-4

4. Re-install the top bracket to hold the Hub in place. Refer to Illustration 2-4
5. Position the cables over the lower bracket of the cable clamp. Reposition the top bracket over the cables. Then re-screw the two screws on either end.
6. Return power to the unit.
7. Place the old Model 800 Hub in the ESD Storage Bag and/or original carton, as applicable.

## 2-4 Bit3 Fiber Optic Interface Replacement

Remove the Front Cover, the SCSI Box Side Cover, and the PC Side Cover of the OW Cabinet as shown in Appendix A of this document.

### 2-4-1 Tools Required

- Medium Phillips screwdriver
- Small flat head screwdriver
- Container for screws

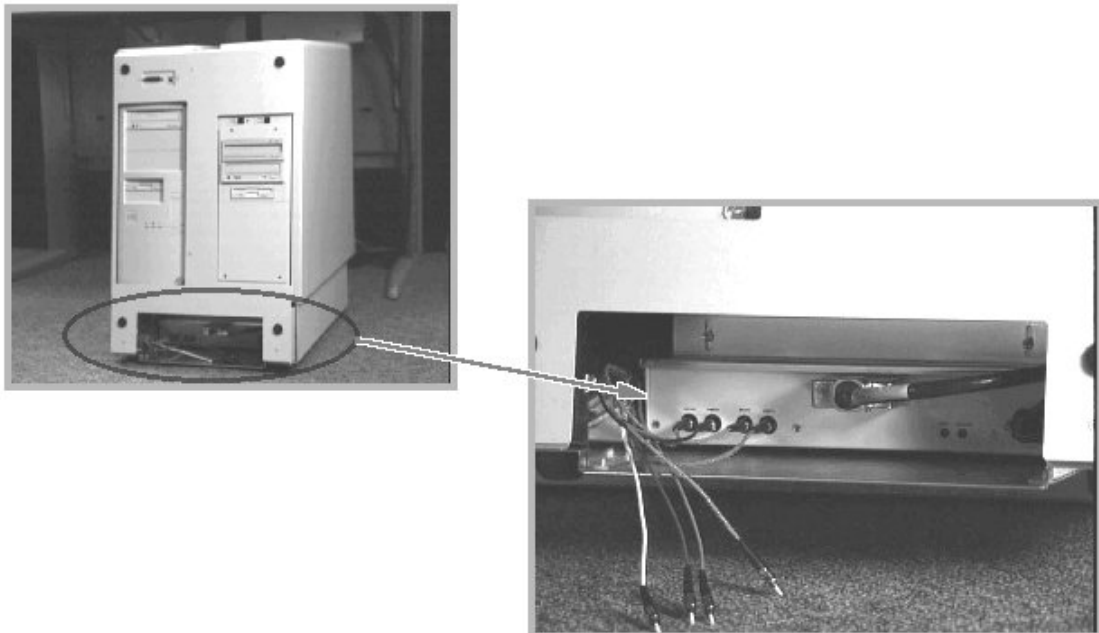
### 2-4-2 Removal Procedures

1. Locate the Bit3 Fiber Optic Interface at the bottom front of the cabinet, under the PC and SCSI Expansion Box units. See Illustration 2-1 on page 3 of this document.
2. Remove the sides of the cabinet if you encounter difficulties servicing the Bit3 Interface from the front.



**The Bit3 Fiber Optic Interface contains eight glass fiber cables, four in use and four extra. Use extreme caution when handling these cables. Damage to these cables may cause erroneous readings when the MRI unit is in use.**

3. Disconnect the external cables.
4. Unscrew the two screws on either end of the metal bracket located above the Interface. Once the screws are loose, pull the Interface forward and out of the cabinet. Then re-screw the metal bracket so it remains in the up position. This will allow for easier installation of the replacement Interface. See Illustration 2-5.



**BIT3 FIBER OPTIC INTERFACE LOCATION**  
ILLUSTRATION 2-5

5. Slide the old Bit3 Fiber Optic Interface out of the case and set aside.

### 2-4-3 Installation Procedures

1. Remove the replacement Bit3 Fiber Optic Interface from the ESD Storage Bag and/or original carton, as applicable.
2. Install the Bit3 Fiber Optic Interface by carefully sliding it back into the cabinet until the front of the unit resides under the metal bracket. Position the Interface equally from side-to-side.
3. Unscrew the two screws on the bracket so it rests over the front of the Interface.
4. Adjust the Interface so the front of the unit is secured by the metal bracket. Then tighten the screws.
5. Carefully reconnect the external cables.
6. Return power to the unit. (The on/off switch is located on the right rear of the Interface if needed.)
7. Place the old Bit3 Fiber Optic Interface into the ESD Storage Bag and/or original carton, as applicable.

## **2-5 SCSI Expansion Box**

Remove the Front Cover, the SCSI Box Side Cover, and the PC Side Cover of the OW Cabinet as shown in Appendix A of this document. This procedure is for the enclosure only.

### **2-5-1 Tools Required**

- Medium Phillips screwdriver
- Small flat head screwdriver
- Grounding wrist strap
- ESD Kit
- Container for screws

### **2-5-2 Removal Procedures**

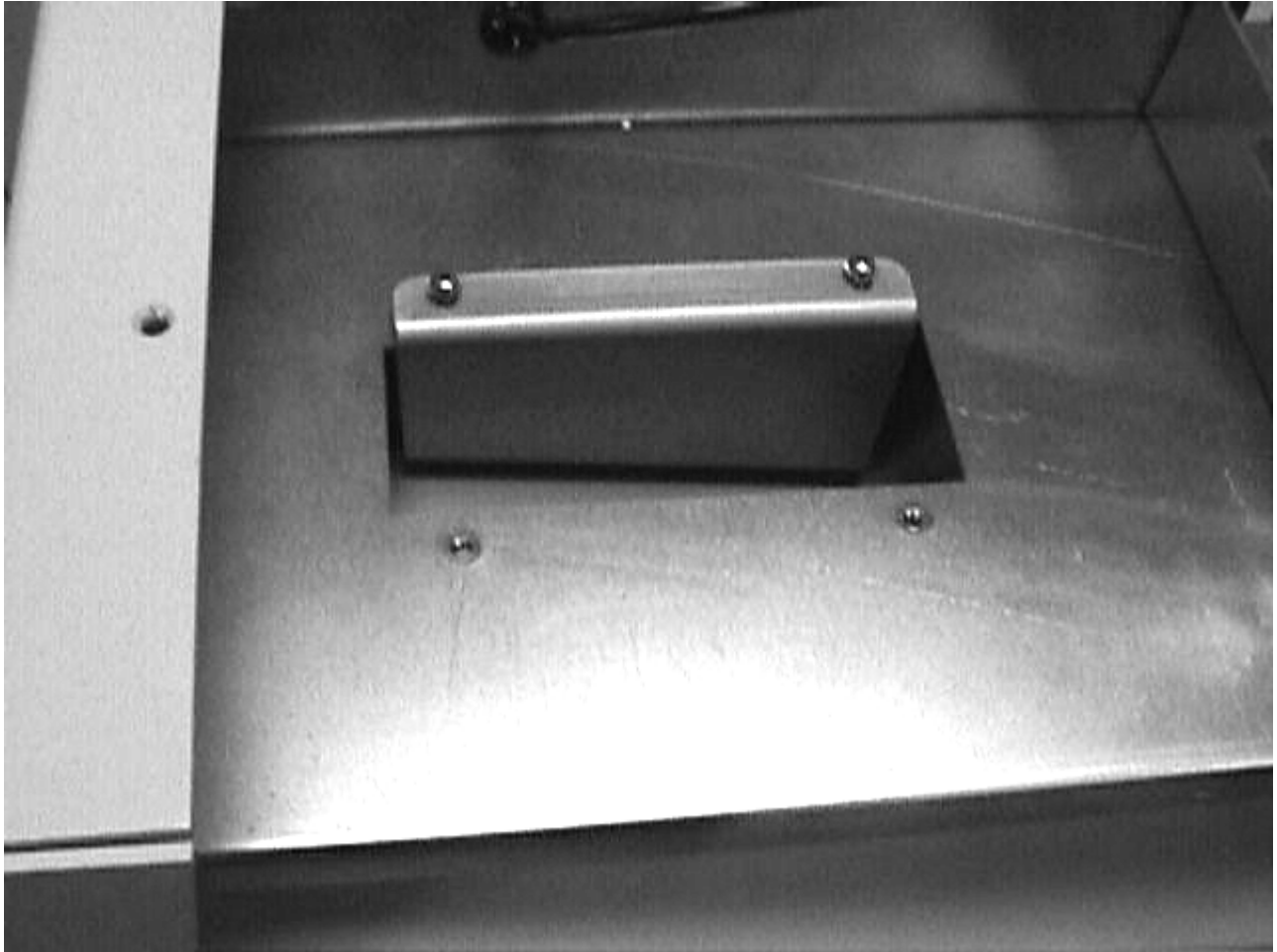
1. Unscrew the 3 screws on the bottom plate (screws remain with bracket). Refer to Illustration 2-6.
2. Remove the top bracket as shown in Illustration 2-7 and set aside.
3. To remove the SCSI box from the cabinet, pull the box out of the side of the cabinet.
4. Remove the external terminator.
5. Lay the box on its side to remove the bottom plate.
6. If just the enclosure is being replaced, the power supply internal to the SCSI box must be removed and placed in the new SCSI box. To do this, slide the cover off of the enclosure and remove the supply.

**2-5-2 Removal Procedures (continued)**



**SCSI BOTTOM BRACKET REMOVAL**  
ILLUSTRATION 2-6

**2-5-2 Removal Procedures (continued)**



**SCSI TOP BRACKET**  
ILLUSTRATION 2-7

### 2-5-3 Installation Procedures

1. Remove the replacement SCSI Box from the ESD storage bag and/or original carton, as applicable. Set the SCSI address to SCSI 4 as shown in illustration 2-5-3.

#### - D3 – SERIAL EXPANSION BOX SET UP

- ① Connect the following cables to the SCSI Expansion Box (OW A16).

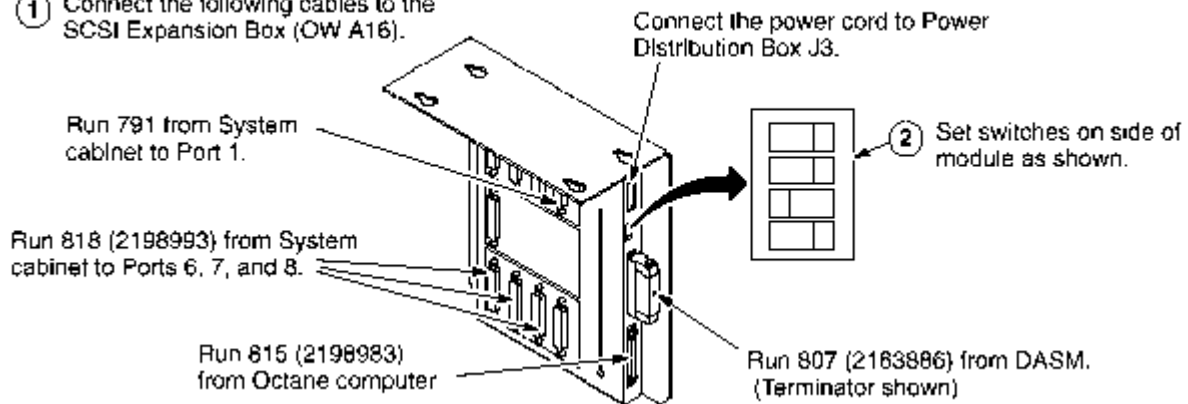


ILLUSTRATION 2-5-3  
SCSI EXPANSION BOX SWITCH SETTINGS

2. If the power supply is needed to be installed, remove the cover and install the supply. Then, replace the cover.
3. Attach the bracket to the bottom of the box.
4. Pick up the SCSI box and slide it into the cabinet. Gently lift up the back of the unit and slide it towards the front of the cabinet until the box is flush with the front of the cabinet.
5. Attach the top bracket as shown in Illustration 2-4.
6. Reattach external terminator.
7. Reattach all cables to the SCSI Expansion box and return power to the unit.
8. Place the old SCSI box in the ESD Storage Bag and/or original carton, as applicable.

### 2-6 CD-ROM Drive (located in SCSI Expansion Box)

Remove the Front Cover, the SCSI Box Side Cover, and the PC Side Cover of the OW Cabinet as shown in Appendix A of this document.

#### 2-6-1 Tools Required

- Medium Phillips screwdriver
- Small flat head screwdriver
- Grounding wrist strap
- ESD Kit
- Container for screws

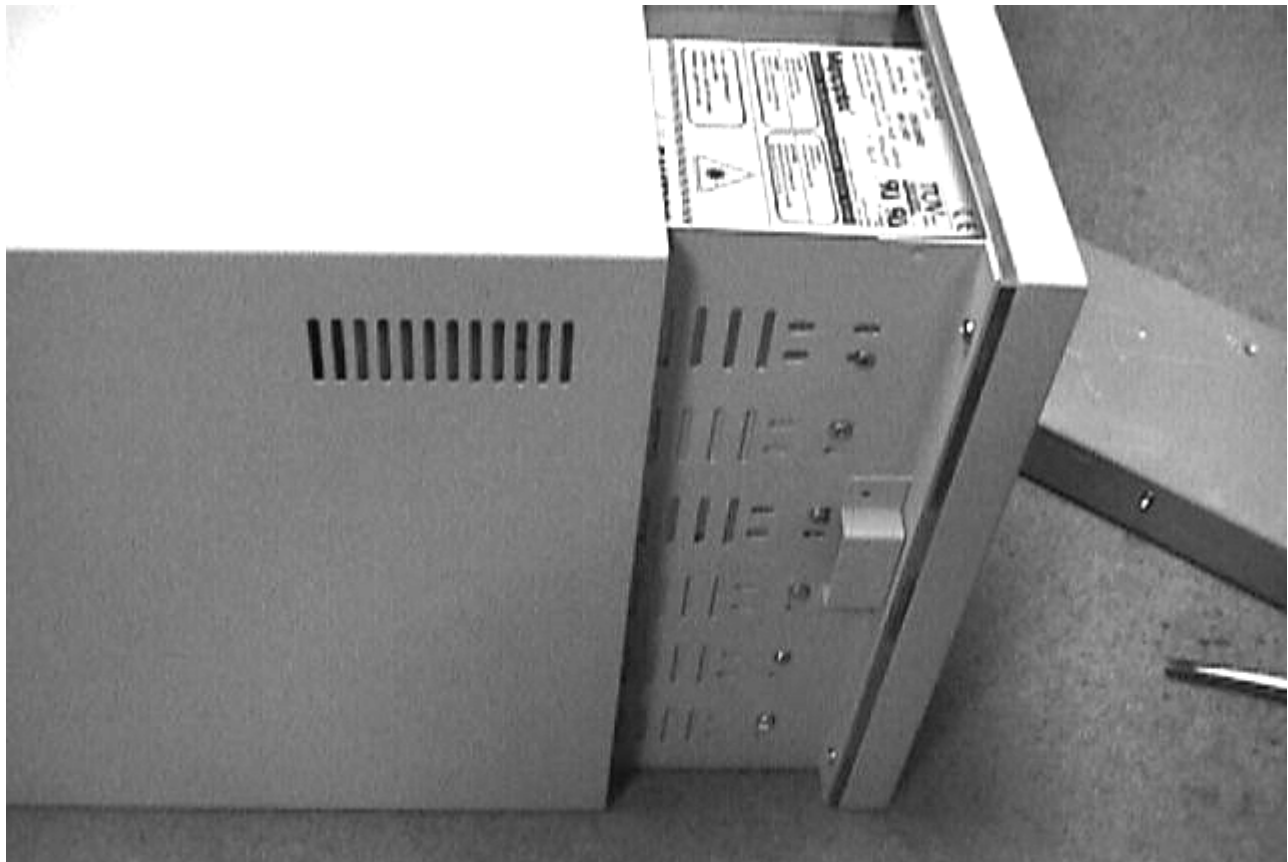
#### 2-6-2 Removal Procedures

Remove the SCSI Expansion Box First:

1. Unscrew the three screws on the bottom plate of SCSI Box (screws remain with bracket). Refer to Illustration 2-6.
2. Remove the top bracket as shown in Illustration 2-7 and set aside.
3. To remove the SCSI box from the cabinet, pull the box out of the side of the cabinet.
4. Remove the external terminator.
5. Lay the box on its side to remove the bottom plate.
6. Slide the cover off (there is a retaining latch at the front so the cover may have to be pulled on slightly). Refer to Illustration 2-8.
7. Remove the ribbon cable and the power connector from the back of the CDROM drive.

**2-6-2 Removal Procedures (continued)**

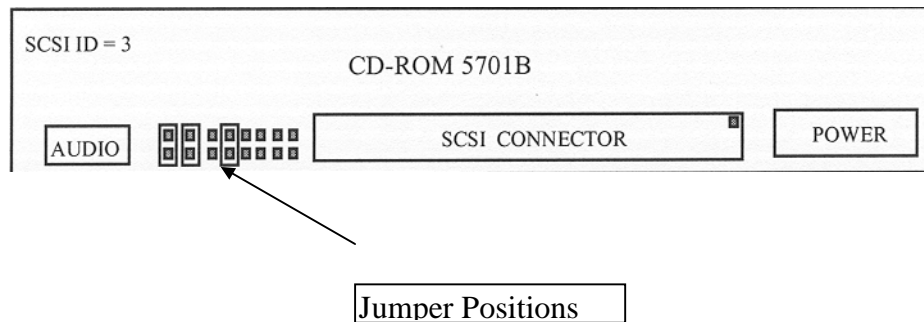
8. Remove the four screws (two on each side) to remove the drive.
9. Place the old CDROM drive on the red ESD mat.



**SCSI COVER**  
ILLUSTRATION 2-8

### 2-6-3 Installation Procedures

1. Remove the replacement CDROM drive from the ESD storage bag and/or original carton, as applicable.
2. Verify that the jumpers are in the correct position. Refer to Illustration 2-9.



**CDROM SCSI ID JUMPER POSITIONS**  
ILLUSTRATION 2-9

3. Place drive into slot of SCSI box until it is flush with the front.
4. Reattach drive to bracket using the 4 screws (2 on each side)
5. Reattach ribbon cable and the power connector to the drive.
6. Slide the cover back onto the SCSI box enclosure.
7. Attach the bracket to the bottom of the box.
8. Pick up the SCSI box and slide it into the cabinet. Gently lift up the back of the unit and slide it towards the front of the cabinet until the box is flush with the front of the cabinet.
9. Attach the top bracket as shown in Illustration 2-7.
10. Reattach external terminator.
11. Reattach all cables to the SCSI Expansion box and return power to the unit.
12. Place the old CD-ROM Drive in the ESD Storage Bag and/or original carton, as applicable.

### 2-7 MOD Drive (located in SCSI Expansion Box)

Remove the Front Cover, the SCSI Box Side Cover, and the PC Side Cover of the OW Cabinet as shown in Appendix A of this document.

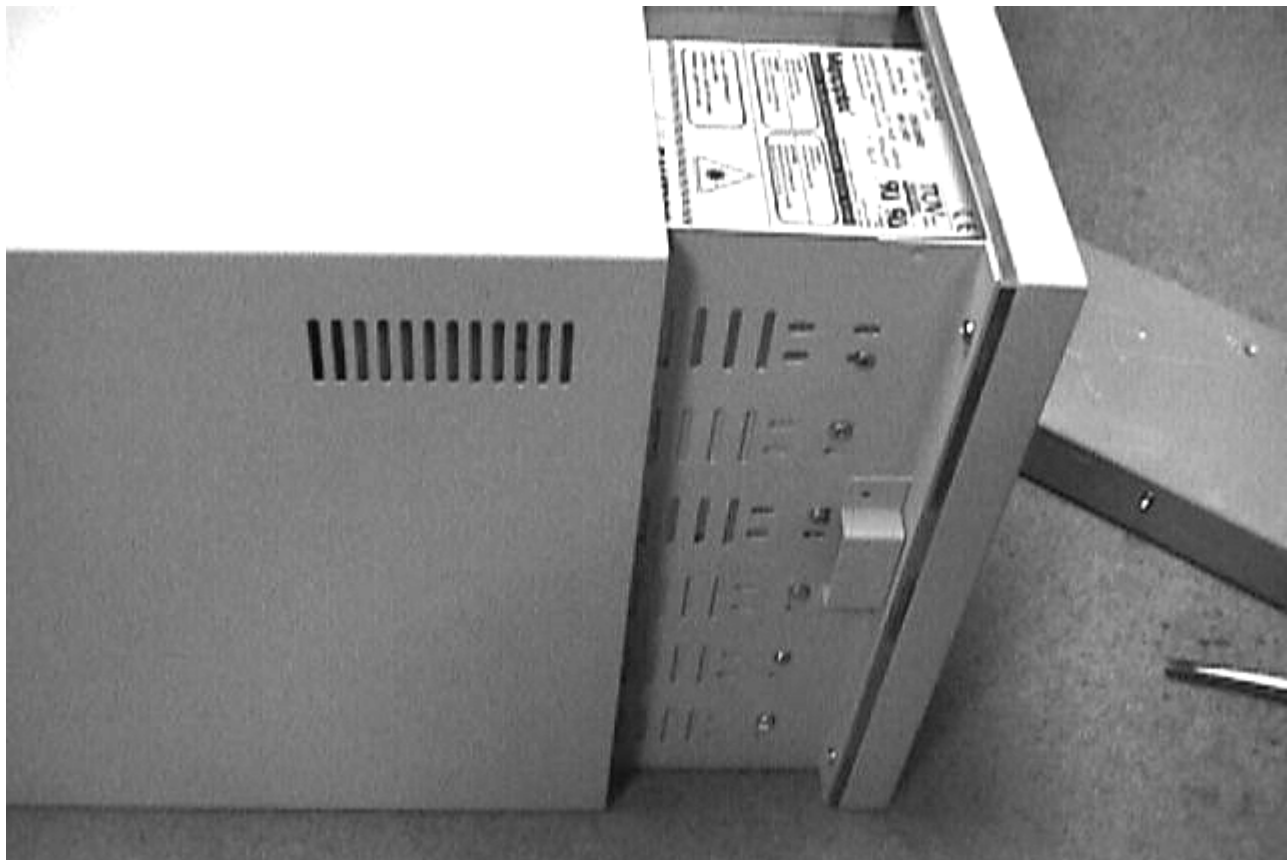
#### 2-7-1 Tools Required

- Medium Phillips screwdriver
- Small flat head screwdriver
- Grounding wrist strap
- ESD Kit
- Container for screws

## 2-7-2 Removal Procedures

Remove the SCSI Expansion Box first:

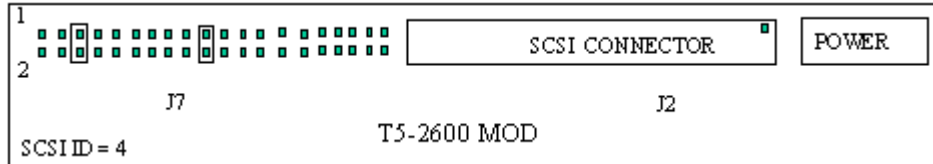
1. Unscrew the 3 screws on the bottom plate (screws remain with bracket). Refer to Illustration 2-6.
2. Remove the top bracket as shown in Illustration 2-7 and set aside.
3. To remove the SCSI box from the cabinet, pull the box out of the side of the cabinet.
4. Remove the external terminator.
5. Lay the box on its side to remove the bottom plate.
6. Slide the cover off (there is a retaining latch at the front so the cover may have to be pulled on slightly). Refer to Illustration 2-8.
7. Remove the ribbon cable and the power connector from the back of the MOD drive.
8. Remove the 4 screws (2 on each side) to remove the drive.
9. Place the old MOD drive on the red ESD mat.



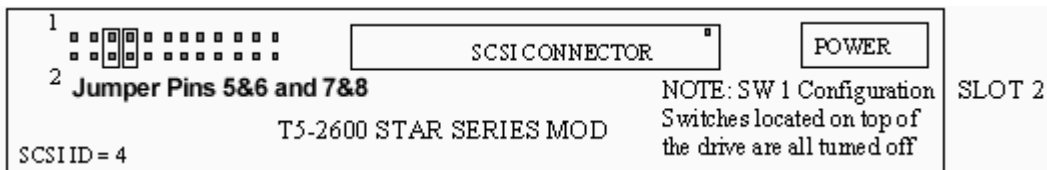
**SCSI COVER**  
ILLUSTRATION 2-8

**2-7-3 Installation Procedures**

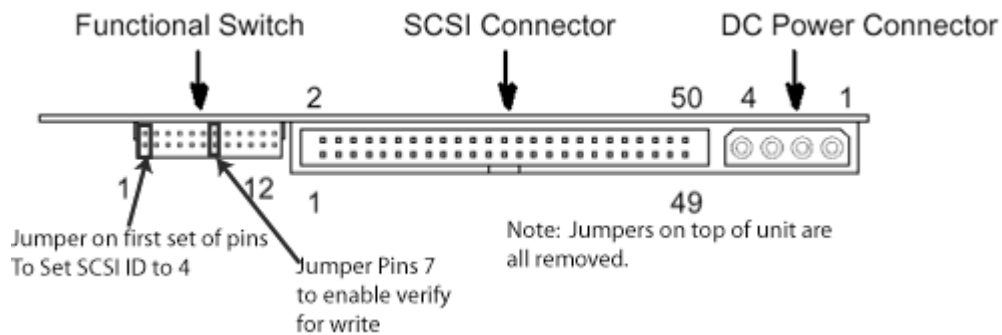
1. Remove the replacement MOD drive from the ESD storage bag and/or original carton, as applicable.
2. Verify that the SCSI ID jumpers are in the correct position. Refer to Illustration 2-10 for Maxoptix T5-2600 MOD drives (GE Part 2199817-2), Illustration 2-10A for Maxoptix T5-2600 Star Series MOD drives (GE Part 2199817-9) or Illustration 2-10B for Sony SMO-F551-SD MOD drive.



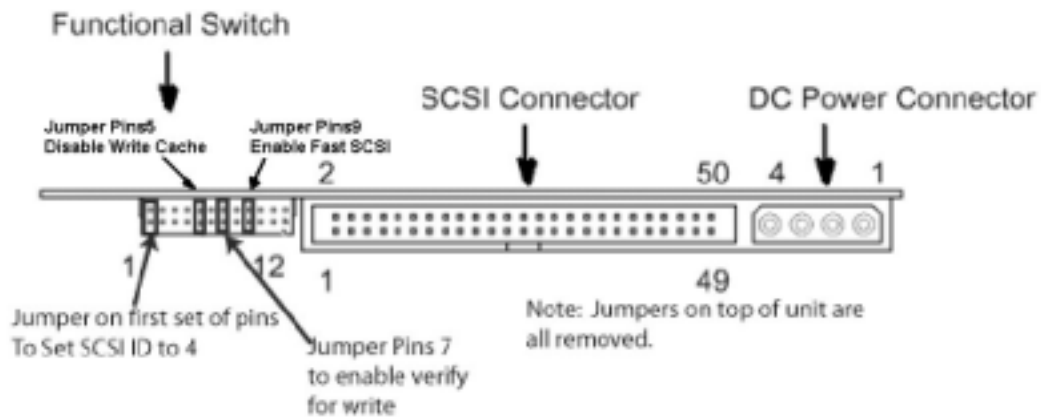
**T5-2600 MOD DRIVE SCSI ID**  
ILLUSTRATION 2-10



**T5-2600 STAR SERIES MOD DRIVE SCSI ID**  
ILLUSTRATION 2-10A



**SONY SMO-F551-SD MOD DRIVE FOR SGI OCTANE**  
ILLUSTRATION 2-10B



**SONY SMO-F551-SD MOD DRIVE FOR PC HOST**  
ILLUSTRATION 2-10B

3. Place drive into slot of SCSI box until it is flush with the front.
4. Re-attach drive to bracket using the 4 screws (2 on each side)
5. Re-attach ribbon cable and the power connector to the drive.
6. Slide the cover back onto the SCSI box enclosure.
7. Attach the bracket to the bottom of the box.
8. Pick up the SCSI box and slide it into the cabinet. Gently lift up the back of the unit and slide it towards the front of the cabinet until the box is flush with the front of the cabinet.
9. Attach the top bracket as shown in Illustration 2-7.
10. Re-attach terminator to the back of the box.
11. Re-attach all cables to the SCSI Expansion box and return power to the unit.
12. Place the old MOD Drive in the ESD Storage Bag and/or original carton, as applicable.
13. To insure the proper driver is being used for the MOD, do the following:
  - a) Log into the system as root.
  - b) Open a C shell by going to the ToolChest select "System" and then "Unix Shell"
  - c) Type: **cd /export/home/sdc/install**
  - d) Next type: **./uninstall.mod**
  - e) Next type: **./install.mod**

Log out of root and log into Signa. The new drivers should be loaded.

## **2-8 DAT Drive Replacement (part of Legacy Option)**

Remove the Front Cover, the SCSI Box Side Cover, and the PC Side Cover of the OW Cabinet as shown in Appendix A of this document.

### **2-8-1 Tools Required**

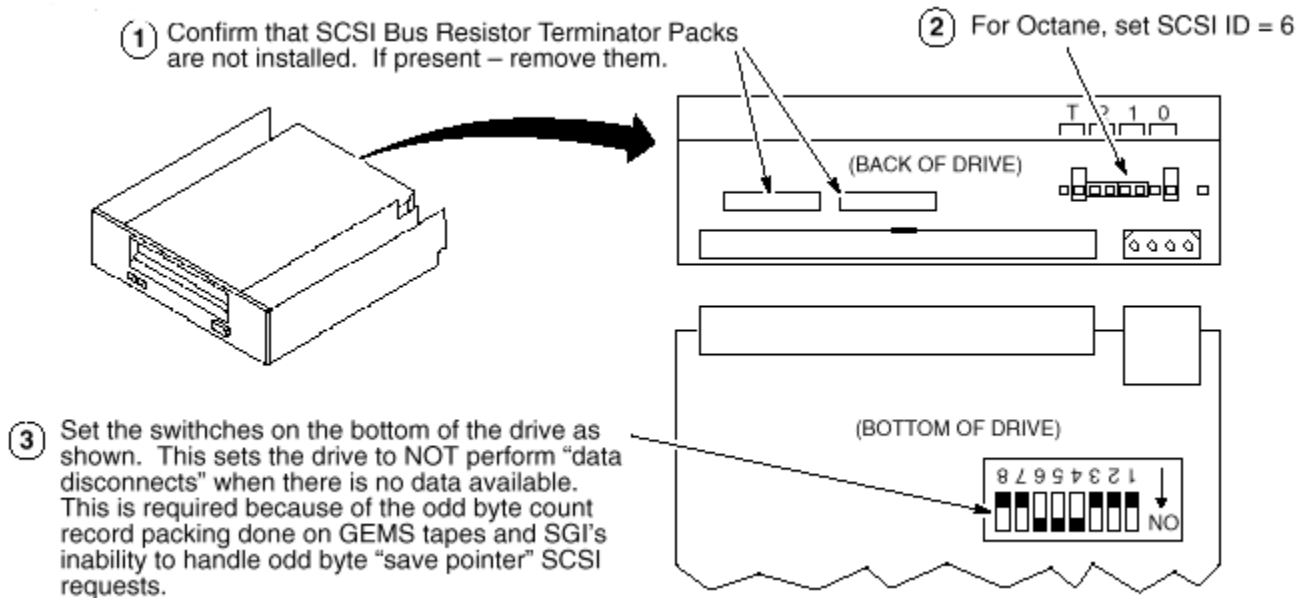
- Medium Phillips screwdriver
- Small flat head screwdriver
- Grounding wrist strap
- ESD Kit
- Container for screws

### **2-8-2 Removal Procedures**

1. Unscrew the 3 screws on the bottom plate (screws remain with bracket) of the SCSI box. Refer to Illustration 2-9.
2. Remove the top bracket holding the SCSI box in place as shown in Illustration 2-10 and set aside.
3. To remove the SCSI box from the cabinet, pull the box out of the side of the cabinet.
4. Remove the external terminator.
5. Lay the box on its side to remove the bottom plate.
6. Slide the cover off (there is a retaining latch at the front so the cover may have to be pulled on slightly). Refer to Illustration 2-11.
7. Remove the ribbon cable and the power connector from the back of the MOD drive.
8. Remove the 4 screws (2 on each side) to remove the drive.
9. Place the old DAT drive on the red ESD mat.

### 2-8-3 Installation Procedures

1. Remove the replacement DAT drive from the ESD storage bag and/or original carton, as applicable and set jumper and bottom switches as shown.



2. Place drive into slot of SCSI box until it is flush with the front.
3. Re-attach drive to bracket using the 4 screws (2 on each side)
4. Re-attach ribbon cable and the power connector to the drive.
5. Slide the cover back onto the SCSI box enclosure.
6. Attach the bracket to the bottom of the box.
7. Pick up the SCSI box and slide it into the cabinet. Gently lift up the back of the unit and slide it towards the front of the cabinet until the box is flush with the front of the cabinet.

### 2-8-3 Installation Procedures (continued)

8. Attach the top bracket as shown in Illustration 2-10.
9. Re-attach external terminator.
10. Re-attach all cables to the SCSI Expansion box and return power to the unit.
11. Place the old DAT Drive in the ESD Storage Bag and/or original carton, as applicable.

## **2-9 Pioneer MOD Drive Replacement (part of Legacy Option)**

### **2-9-1 Tools Required**

- Small flat head screwdriver
- Medium Phillips screwdriver
- Grounding wrist strap
- ESD Kit
- Container for screws

### **2-9-2 Removal Procedures**

1. Unscrew the 3 screws on the bottom plate (screws remain with bracket) of the SCSI box. Refer to Illustration 2-6.
2. Remove the top bracket holding the SCSI box in place as shown in Illustration 2-7 and set aside.
3. To remove the SCSI box from the cabinet, pull the box out of the side of the cabinet.
4. Remove the external terminator.
5. Lay the box on its side to remove the bottom plate.
6. Slide the cover off (there is a retaining latch at the front so the cover may have to be pulled on slightly). Refer to Illustration 2-8.
7. Remove the ribbon cable and the power connector from the back of the MOD drive.
8. Remove the 4 screws (2 on each side) to remove the drive.
9. Place the old DAT drive on the red ESD mat.

### **2-9-3 Installation Procedures**

1. Remove the replacement MOD drive from the ESD storage bag and/or original carton, as applicable.
2. Place drive into slot of SCSI box until it is flush with the front.
3. Re-attach drive to bracket using the 4 screws (2 on each side)
4. Re-attach ribbon cable and the power connector to the drive.
5. Slide the cover back onto the SCSI box enclosure.
6. Attach the bracket to the bottom of the box.
7. Pick up the SCSI box and slide it into the cabinet. Gently lift up the back of the unit and slide it towards the front of the cabinet until the box is flush with the front of the cabinet.
8. Attach the top bracket as shown in Illustration 2-7.
9. Re-attach external terminator.
10. Re-attach all cables to the SCSI Expansion box and return power to the unit.
11. Place the old MOD Drive in the ESD Storage Bag and/or original carton, as applicable.

## 2-10 AC Distribution Box

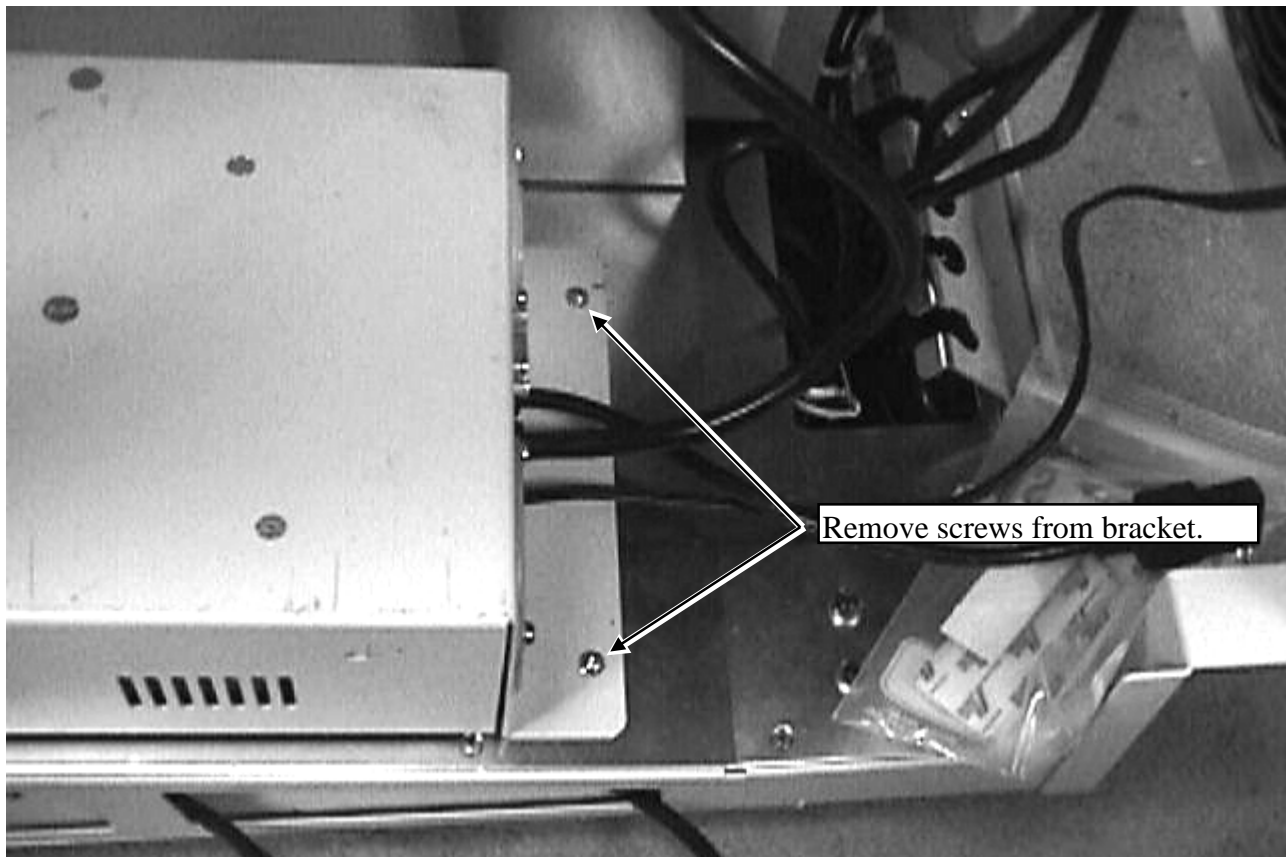
Remove the Front Cover, the SCSI Box Side Cover, and the PC Side Cover of the OW Cabinet as shown in Appendix A of this document. This procedure is for the enclosure only.

### 2-10-1 Tools Required

- Medium Phillips screwdriver
- Small flat head screwdriver

### 2-10-2 Removal Procedures

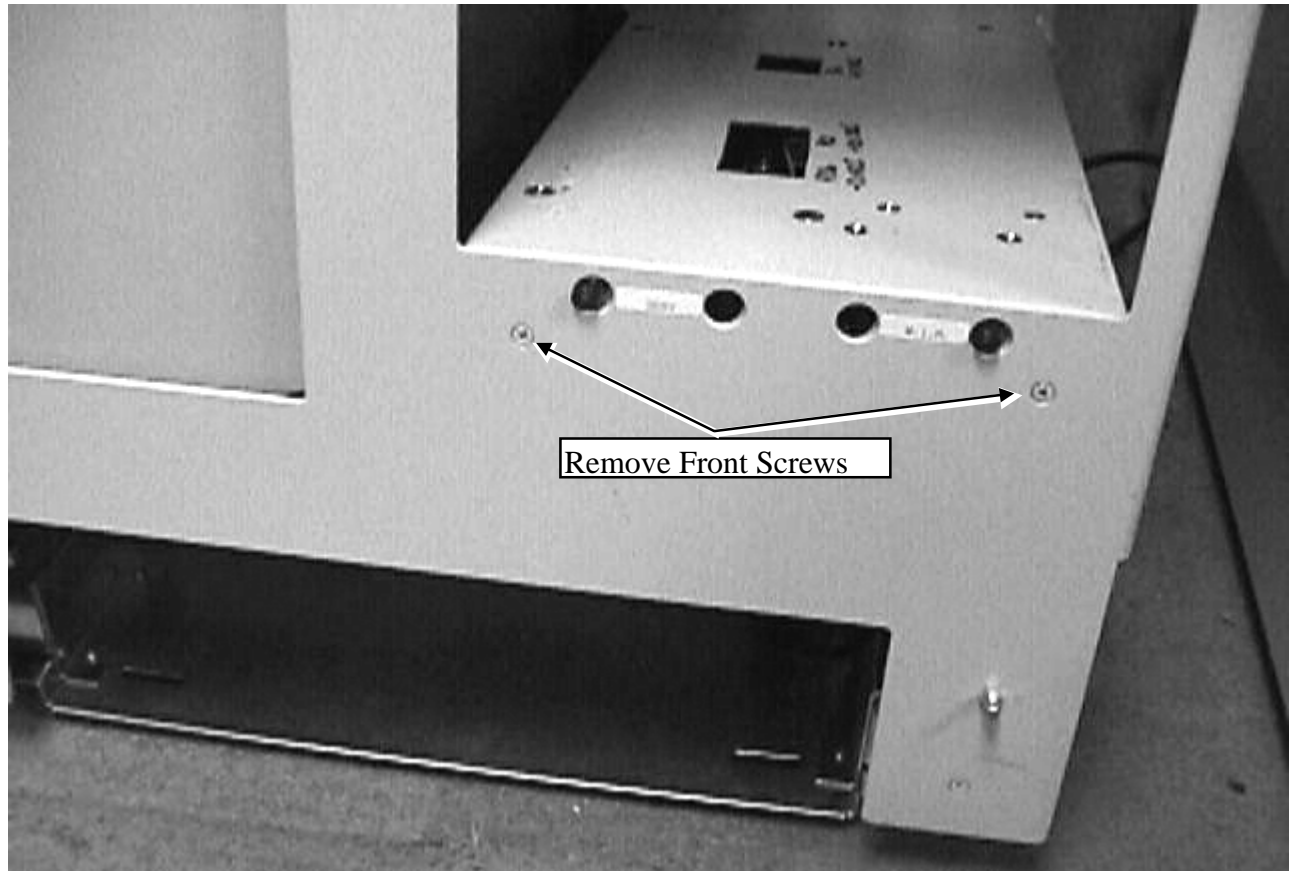
1. Remove SCSI Expansion Box per section 2-5-2, steps 1 through 3.
2. Unplug all power cords from the outlet box. Remove connections from the back of the Distribution Box.
3. Remove plug from fan.
4. Unscrew the bracket at the back of the Distribution Box. Refer to Illustration 2-11.



**AC DISTRIBUTION BOX BRACKET**  
ILLUSTRATION 2-11

### 2-10-2 Removal Procedures (continued)

5. Unscrew front screws (by LEDs). Refer to Illustration 2-12.



**AC DISTRIBUTION FRONT SCREWS**  
ILLUSTRATION 2-12

6. The outlet box and the AC Distribution box are connected together, remove both. Slide the AC Distribution Box back and lift out.

### 2-10-3 Installation Procedures

1. Remove the replacement AC Distribution Box (and outlet box) from the ESD storage bag and/or original carton, as applicable.
2. Place the box in the workspace cabinet being careful to align the LEDs with the holes in the chassis.
3. Screw the front mounting screws and rear bracket screws.
4. Mount the outlet box to the inner metal plate aligning the mounting holes to the flange on the outlet box and screw in.
5. Re-connect all power cords to the outlet box. Reconnect all the power connections to the AC Distribution Box.
6. Connect fan plug to the fan module.
7. Return power to the unit.
8. Place the old AC Distribution Box in the ESD Storage Bag and/or original carton, as applicable.

## APPENDIX A - OPERATOR WORK SPACE CABINET COVER

### Tools Required

- Phillips head screwdrivers
- Container for screws

### Front Cover Removal

1. Grasp the front cover from the sides (preferred) or from the top and bottom.
2. Pull the cover straight toward you. The ball and socket clips should release with as little as 8lbs. of pressure.

### Front Cover Installation

1. To replace, align the ball studs with the clips in the front cover.
2. Support the rear of the cabinet to prevent it from rolling backward, and push straight back.



**FRONT COVER REMOVAL/INSTALLATION**  
ILLUSTRATION A-1

## APPENDIX A - OPERATOR WORK SPACE CABINET COVER (continued)

### OW Cabinet - SCSI Box Side - Cover Removal



1. Always remove the cover over the SCSI box first.
2. Loosen the rear thumbscrew but do not remove it.
3. Remove the Phillips head screw at the top of the front cover.

#### FRONT COVER SCREW LOCATION

ILLUSTRATION A-2

4. Lift the bottom of the cover slightly and slide the cover to the rear of the cabinet about 1/2" (13mm).



5. Pull the cover toward you until the tabs clear the two top slots.

#### REMOVING SIDE COVER

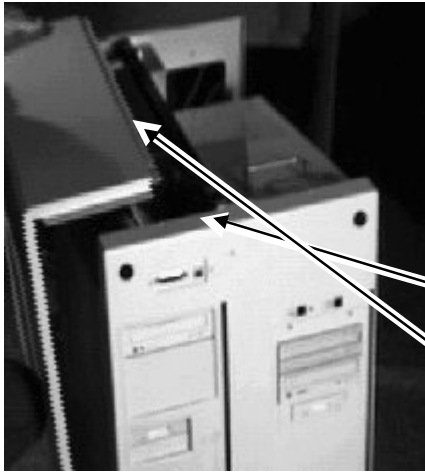
ILLUSTRATION A-3

### OW Cabinet - SCSI Box Side - Cover Installation

1. Reverse the removal procedures.
2. Ensure the PC side cover is replaced first.
3. Make sure all screws are installed before replacing the OW Cabinet - SGI (Host) side - cover.

## APPENDIX A - OPERATOR WORK SPACE CABINET COVER (continued)

### OW Cabinet - PC Side - Cover Removal



1. Always remove the cover over the Host computer first.
2. Loosen the rear thumbscrew but do not remove it.
3. Remove the Phillips head screw at the top of the front cover.
4. Remove the two Phillips head screws from the top of the cover.

#### SCREW LOCATION FOR REMOVING SIDE COVER

ILLUSTRATION A-4

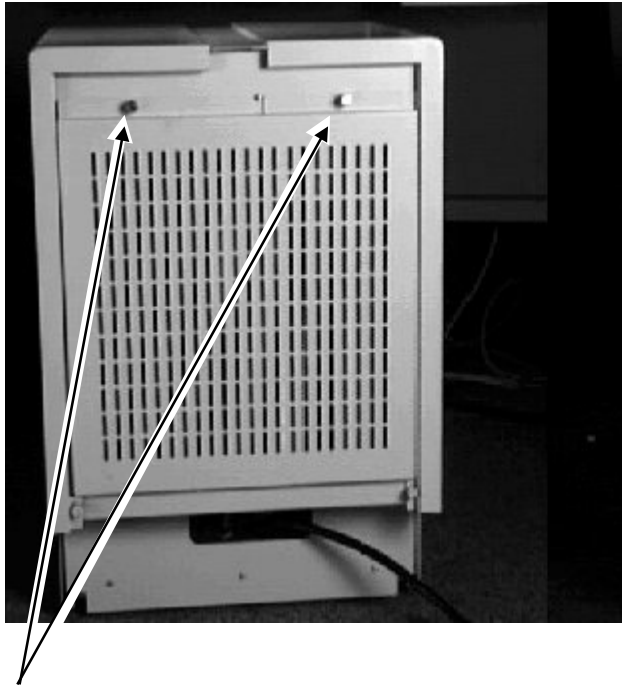
5. Lift the bottom of the cover slightly and slide the cover to the rear of the cabinet about 1/2" (13mm).
6. Pull the cover toward you until the tabs clear the two top slots.

### OW Cabinet - PC Side - Cover Installation

1. Reverse the removal procedures.
2. Make sure all screws are installed before replacing the OW Cabinet - PC side - cover.

## APPENDIX A - OPERATOR WORK SPACE CABINET COVER (continued)

### Rear Cover Removal



**THUMB SCREWS ON REAR PANEL**  
ILLUSTRATION A-5

1. Loosen the two thumb screws at the top of the cover.
2. Pull the top of the cover toward you slightly and lift the cover out of the way.

### Rear Cover Installation

1. Replace the cover.
2. Tighten the two thumb screws at the top of the cover.

## REVISION HISTORY

REV	DATE	AUTHOR	PRIMARY REASONS FOR CHANGE
A	Apr 30, 1998	K. L-P	Initial revision
0	May 18, 1998	wek	Updated loc out/tag out info
1	Sept 3, 1998	Hawthorne	Updated Section 2-5-3 to include SCSI switch settings.
2	Aug 2, 1999	Hawthorne	Updated section 2-8-3 with DAT Switch and jumper setup illustration. Added MOD driver update commands in section 2-7.
3	Dec 13, 1999	Hawthorne	Added jumper config for Maxoptix T5-2600 Star Series MOD drive section 2-7-3 Page 18.
4	Sept 1, 2001	Hawthorne	Added SCSI jumper information for Sony SMO-F551-SD in section 2-7-3.
5	Sept 8, 2002	Masumo	P19: Added MOD Jumper Information for PC Host