

Series 700 Workstation to B-Class Workstation Upgrade Procedures

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Emissions Regulations

Federal Communications Commission (FCC)

The Federal Communications Commission of the U.S. government regulates the radio frequency energy emanated by computing devices through published regulations. These regulations specify the limits of radio frequency emission to protect radio and television reception. All HP nodes and peripherals have been tested and comply with these limits. The FCC regulations also require that computing devices used in the U.S. display the agency's label and that the related documentation include the following statement:

NOTICE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Compliance to these regulations requires the use of shielded cables.

Canadian Department of Communications (DOC)

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus as set out in the Radio Interference Requirements of the Canadian Department of Communications.

Compliance to these regulations requires the use of shielded cables. **VCCI Class 1 ITE**

この装置は、第一種情報装置（商工業地域において使用されるべき情報装置）で商工業地域での電波障害防止を目的とした情報処理装置等電波障害自主規制協議会（VCCI）基準に適合しております。

従って、住宅地域またはその隣接した地域で使用すると、ラジオ、テレビジョン受信機等に受信障害を与えることがあります。

取扱説明書に従って正しい取り扱いをして下さい。

VCCI基準に適合する為に、シールドされたケーブルをご使用下さい。

Emissions Regulations Compliance

Any third-party I/O device installed in HP system(s) must be in accordance with the requirements set forth in the preceding Emissions Regulations statements. In the event that a third-party noncompliant I/O device is installed, the customer assumes all responsibility and liability arising therefrom.

Compliance to these regulations requires the use of shielded cables.

Electrostatic Discharge (ESD) Precautions

Electrostatic charges can damage the integrated circuits on printed circuit boards. To prevent such damage from occurring, observe the following precautions when unpacking and installing the board.

- Stand on a static-free mat.
- Wear a static strap to ensure that any accumulated electrostatic charge discharges from your body to ground.
- Connect all equipment together, including the static-free mat, static straps, routing nodes, and peripheral units.
- Keep uninstalled printed circuit boards in their protective antistatic bags.
- Once you have removed the printed circuit boards from their protective antistatic bags, handle them by their edges.



Warnings and Cautions

WARNING:

Removing device cover may expose sharp edges in equipment chassis. To avoid injury, use care when installing customer add-on devices

WARNUNG:

Das Entfernen der Geräteabdeckung legt die scharfen Kanten im Inneren des Gerätes frei. Um Verletzungen zu vermeiden, seien Sie vorsichtig beim Einbau von zusätzlichen Bauteilen, die vom Kunden selber eingebaut werden können

AVERTISSEMENT:

Des bords tranchants du châssis de l'équipement peuvent être exposés quand le cache de l'unité n'est pas en place. Pour éviter des blessures, faire très attention lors de l'installation de modules supplémentaires par le client.

WARNING:

Disconnect power plug from wall outlet or source power before moving or removing the device, or installing add-on components.

WARNUNG:

Entfernen Sie die Stromzuführung von der Steckdose oder der Stromquelle bevor Sie das Gerät bewegen, abbauen, oder zusätzliche Bauteile installieren.

AVERTISSEMENT:

Débrancher la fiche de la prise de courant ou de la source d'alimentation électrique avant de déplacer ou de retirer l'unité, ou avant d'installer des modules supplémentaires.

CAUTION:

System power cord must be plugged into an accessible dedicated ac mains receptacle.

VORSICHT:

Das System-Netzanschlußkabel muß an eine zugängliche spezielle Wechselstrom-Hauptzuführungssteckdose angeschlossen werden.

ATTENTION:

Le fil d'alimentation électrique du système doit être branché dans une prise de courant c.a. spécialisée accessible.

700 Series Workstation to B-Class Workstation Trade-Up Installation Instructions.

These instructions document the installation of a B-Class workstation when trading up from your 700 Series workstation. The procedures you perform may vary depending on the configuration of your Series 700 workstation. The installation procedures are divided into the following areas:

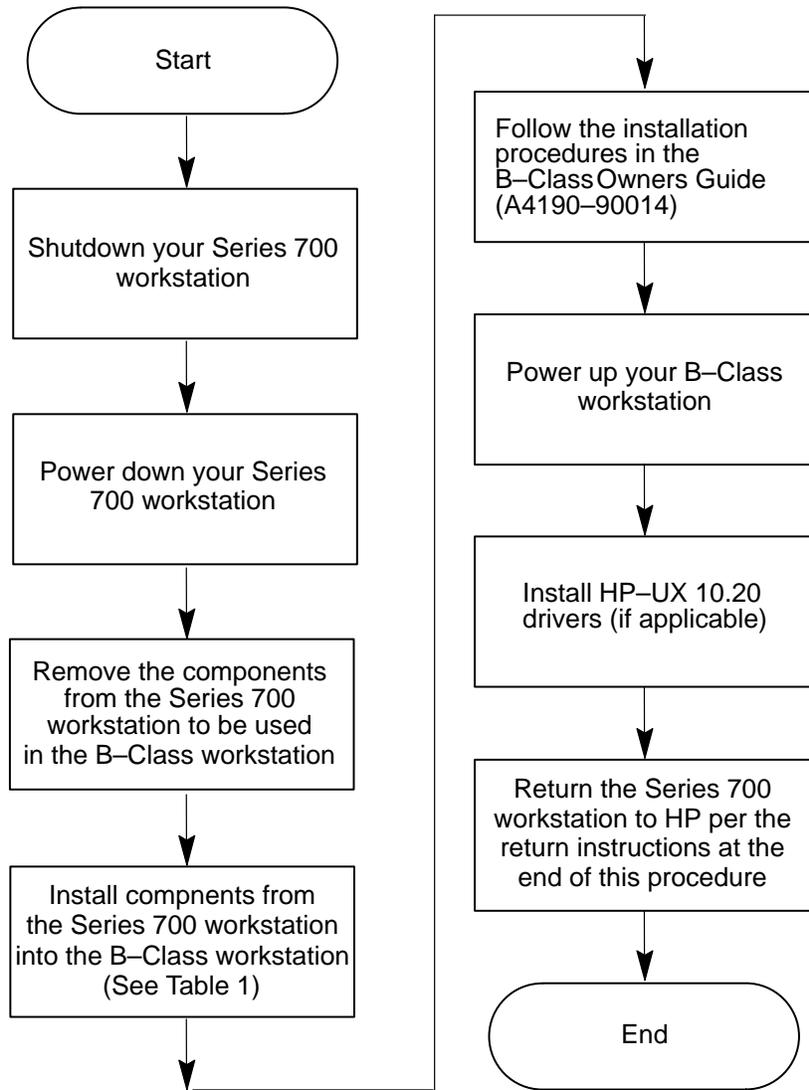
- Removing components from your Series 700 workstation that can be used in the B-Class workstation.
- Installing components from your Series 700 workstation into the B-Class workstation.
- Power up the B-Class workstation

CAUTION: Although the chances of corrupting your system are very small, you must back up your system, before you shut down your system to perform this upgrade, .

NOTICE:The B-Class workstation is shipped with an adapter cable (HP Part Number 8120-6861). This cable is used to adapt a DB-15 type video cable to the built-in graphics EVC connector. Customers upgrading a Series 700 with an RGB to RGB video cable will need to order a RGB to DB-15 video cable (HP Part Number C2300-60005).

Upgrade Overview

An overview of the 700 Series to B-Class Workstation Trade-up Installation procedures are shown in the following flowchart. Depending on your upgrade hardware and software configuration you may not have to complete all of these procedures.



Supported Series 700 Components

The components you can use from the Series 700 workstation are described in Table 1

Table 1 Components Supported in the B-Class System

Component	Product/Part Number	Comments
Monitors		
17 inch	A4330A/B A4032A/B	The EVC to DB adapter cable (HP part# 8120-6861) is to connect the monitor to the B-Class built-in graphics.
20 inch	A4331A/B A2094A/B A4033A/B	
Storage Devices		
1 GB SE 1in. high	9164-0395 0950-2601 0950-3037	Only one drive can be added to the B-Class workstation. It cannot be configured as the boot drive and must be installed in the second disk bay. As a result, a CD-ROM or DDS drive cannot be installed.
2 GB SE 1in. high	0950-2606 0950-3039	
4x CD-ROM	A4326A	
DAT Drive	C1503C C1504C	
EISA Cards		
Fast SCSI-2 host adapter	A2679-66001	
Differential SCSI	25525-60002	
HP-IB host adapter	25560-60001	
10/100VG LAN Link	J2645AA	
NOTICE: For the 10/100 LAN Link J2655AA you must order options AAU and APZ to unlock HP-UX 10.20 CD Media kit B3782EA. There is no charge. Assumes CD-ROM drive on system. Customers without the CD Media kit will have to order B3782EA.		
X.25 link	J2159A	
NOTICE: For the X.25 interface to support HP-UX 10.20 you must order J2793A with performance option #100 for speeds up to 64Kbps or performance option #101 for speeds up to 256Kbps.		
Graphics Cards		
VISUALIZE-8	A4441A	
VISUALIZE-24	A4442A	
HCRX-8	A4070A/B	Must install a A4242A VISUALIZE accelerator.
HCRX-24	A4071A/B	
NOTICE: The HCRX-8/24 are NOT supported without the A4242A VISUALIZE Accelerator. You must order A4242A VISUALIZE Accelerator for the HCRX-8/24		
HCRX-8Z	A4079A/B	Must exchange accelerator
HCRX-24Z	A4179A/B	
NOTICE: The HCRX-8Z and HCRX-24Z are NOT supported without the A4242A VISUALIZE Accelerator. You must order the A4443A VISUALIZE Accelerator kit for the HCRX-8Z and HCRX-24Z		

Powering Down Your Series 700 Workstation

Before you power down your Series 700 workstation, check the type of graphics cards in your system by typing:

graphinfo

You will need this information when you are performing this upgrade.

CAUTION: Although the chances of corrupting your system are very small, you must back up your system, before you shut your system down, to perform this upgrade.

B-Class Workstation Minimum Requirements

Ensure that the B-Class workstation, you are upgrading to, has a minimum of:

64MB ram

2GB internal disk with HP-UX 10.20 installed

Upgrade Procedures

These are the procedures for removal and replacement of the components listed in Table 1

1. Monitor

To remove and replace the monitor perform the following:

- A. Disconnect the monitor from your Series 700 workstation.
- B. Connect the monitor to the B-Class workstation as shown in Figure 1.

NOTICE: You must use the EVC to DB Adapter Cable (HP part# 8120-6861) to connect the monitor to the built-in graphics in the B-Class workstation.

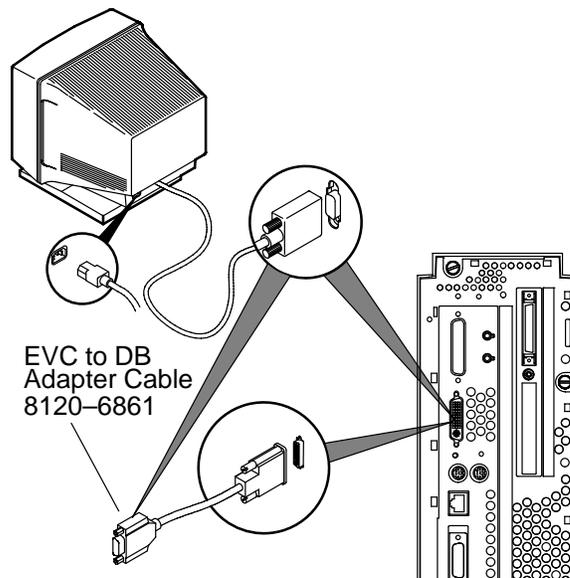
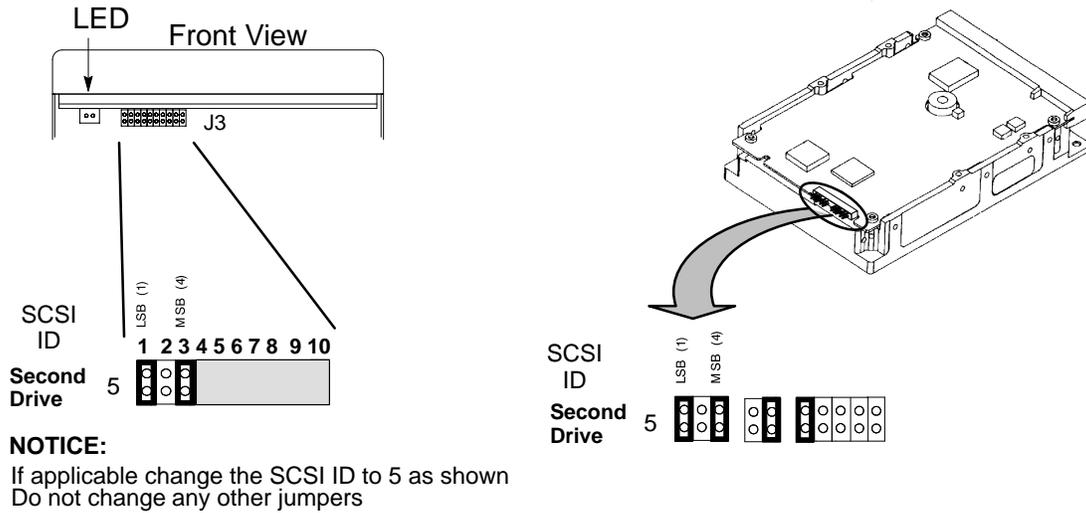


Figure 1. Connecting the Monitor on the B-Class Workstation

2. Internal Storage Devices

To remove and replace the internal storage devices perform the following:

- A. To remove an internal storage devices from your Series 700 system refer to your Series 700 Owners Guide.
- B. The hard disk jumper settings are shown in Figure 2, Figure 3, and Figure 4. Ensure the jumpers on your disk drive are set to the appropriate configuration.



Quantum Disk Drive Models – VP32210
VP31110
DEC Disk Drive Model – DSP3107LS
HP Part Number – 9164-0395

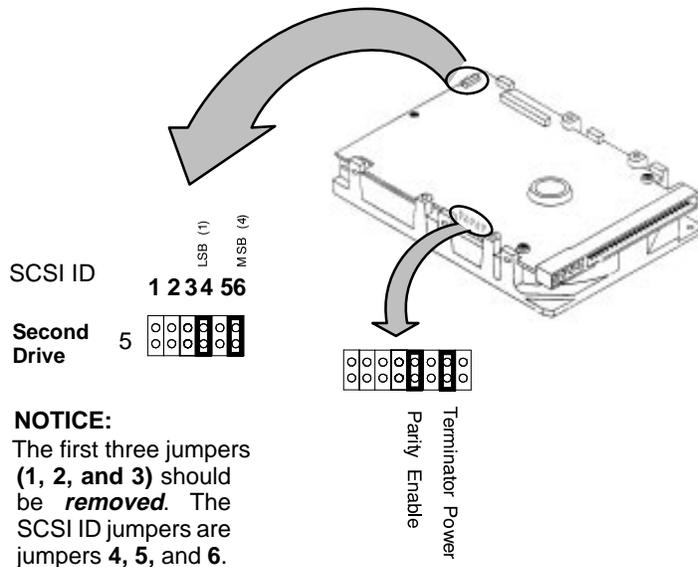
Hewlett-Packard Disk Drive Models – C3324A
C3325A
HP Part Numbers – 0950-2601
0950-2606

Figure 2. Internal Storage Device Jumper Settings

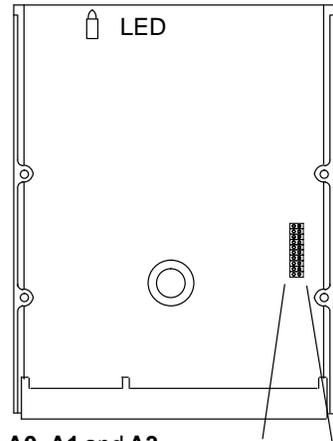
- C. The CD ROM drive jumper settings are shown in Figure 5. Ensure the jumpers on your CD ROM drive are set to the appropriate configuration.

- D. To install the internal storage device(s) in your B-Class workstation, refer to Figure 6 and the *Model B132L/B160L Owner's Guide (A4190-90014)*.

NOTICE:When using a hard disk from your Series 700 workstation, it cannot be configured as the boot drive and must be installed in position 2 (front position).



Seagate Disk Drive Models – ST32430N
ST31230N
ST31200N
HP Part Numbers – 0950-2601
0950-2606

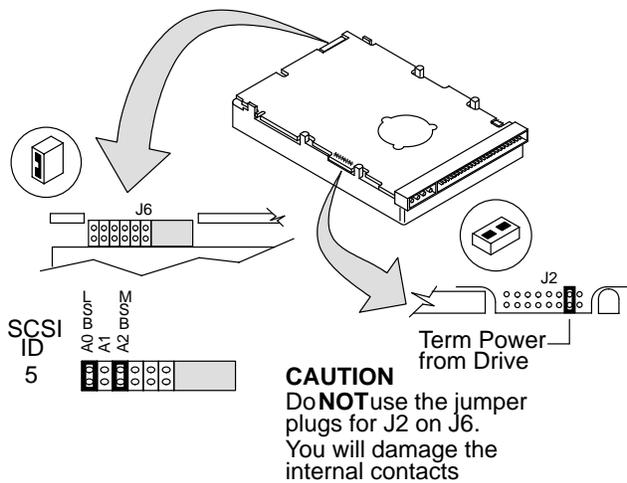


NOTICE: A0, A1 and A3 are the SCSI ID jumpers. The jumpers TE, SS, WS and I/O should be **removed**. The jumper EP and INT should be **in place**

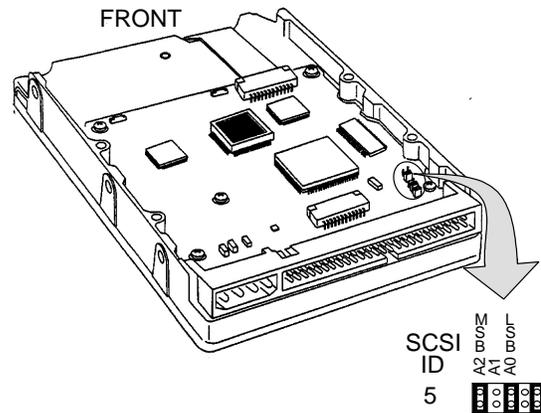
SCSI ID 5

Quantum Disk Drive Model – LPS1080S
HP Part Number – 9164-0395

Figure 3. Internal Storage Device Jumper Settings

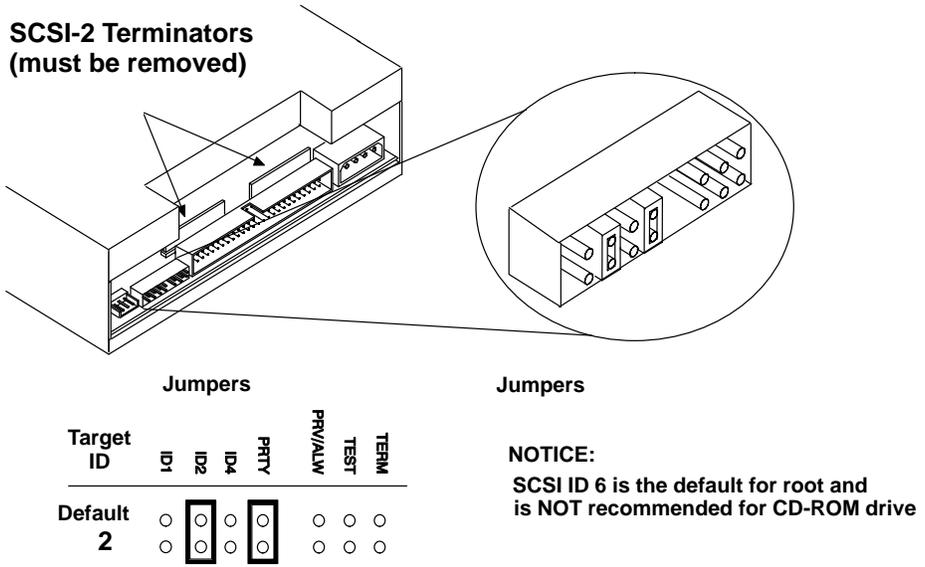


Seagate Disk Drive Models – ST31051N
ST32151N
HP Part Numbers – 0950-3037
0950-3039



Quantum Disk Drive Model – FB1050S
HP Part Number – 0950-3037

Figure 4. Internal Storage Device Jumper Settings



CD ROM Drive HP Part Number A4325-60001 or A3416-60001

Figure 5. CD-ROM Jumper Settings

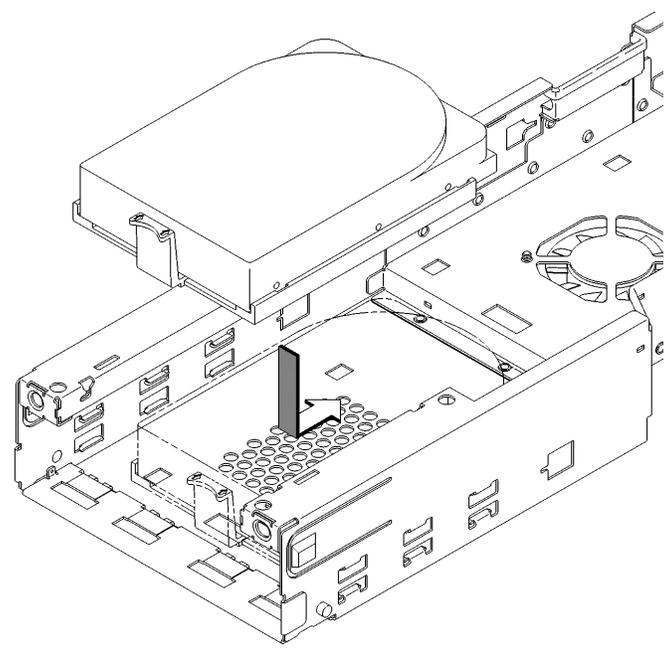


Figure 6. Installing a Hard Disk Drive in Position 2 (Front Position) in your B-Class Workstation

3. EISA Cards

To remove and replace any of EISA cards, perform the following:

- A. To remove an EISA card from your Series 700 system refer to your Series 700 Owners Guide.
- B. To install an EISA card in your B-Class workstation see Figure 7, and refer to the *Model B132L/B160L Owner's Guide (A4190-90014)*.

NOTICE:The X.25 link and the 10/100VG LAN Link require HP-UX 10.20 drivers to be installed.

4. Graphics Cards

To remove and replace any of the graphic cards, perform the following:

- A. To remove a graphic card from your Series 700 system refer to your Series 700 Owners Guide.
- B. To install a graphic card in your B-Class workstation see Figure 7, and refer to the *Model B132L/B160L Owner's Guide (A4190-90014)*.

NOTICE: The HCRX-8Z and HCRX-24Z are **NOT** supported without the A4242A Accelerator. You must order the A4443A Accelerator kit, remove and send back the A4072A accelerator card. Install the new A4242A accelerator card you received in the A4443A accelerator kit.

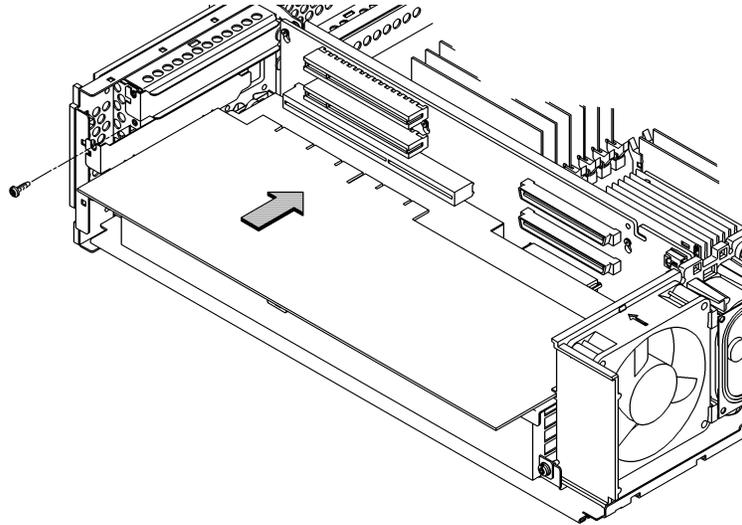


Figure 7. Installing Option Cards in Your B-Class Workstation

5. Install the B-Class Workstation

Install the B-Class workstation according the *Hardware Installation Card, B-Class* (HP part# A4190-90010)

6. Install HP-UX 10.20 Device Drivers

To install the device drivers on the B-Class workstation, perform the following:

- A. Power up the B-Class workstation
- B. To install the HP-UX 10.20 Device Drivers the instructions and the Release Notes that accompany the drivers.

7. Return All Unused Parts

Follow the instructions in the *Hewlett-Packard Upgrade Return Instructions* sheet (part number A1658-90611) included in the Upgrade Return Kit.

NOTICE: You must return the original CPU, memory boards, and power supply to Hewlett-Packard according to the *Hewlett-Packard Upgrade Return Instructions* sheet.

If you have any problems, questions, or suggestions with our hardware, software, or documentation, please call 1-888-301-5932 (US & Canada) or contact the HP Response Center for your country.



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