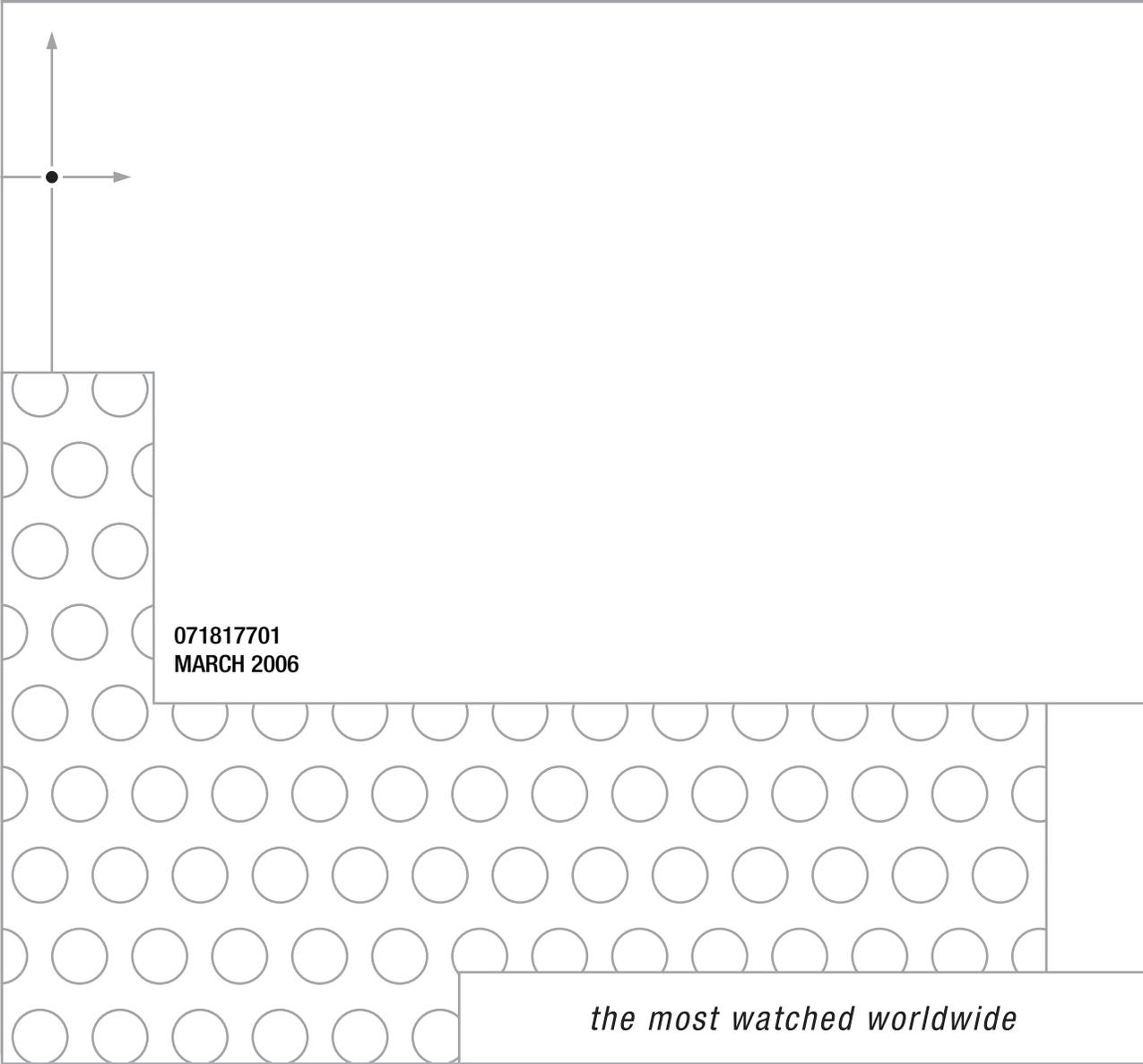


# Kalypso/Zodiak

DIGITAL PRODUCTION SWITCHER

## Menu Panel Recovery CD Procedure Version 2.0



*the most watched worldwide*

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**Software Downloads** — Software updates, drivers, and patches can be downloaded.

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# *Menu Panel Recovery CD Procedure*

## **Introduction**

This procedure describes the use of a bootable Recovery CD shipped with your Kalypso or Zodiac Menu panel that is used to restore or create a backup of the working system image of the hard drive used in the panel. The Menu panel contains a single board computer (SBC) running Windows 2000.

If the hard drive in the Menu panel becomes corrupted, the Recovery CD provides emergency reboot capability. This is done by booting up on the CD and restoring a backup image from a second, backup partition on the Menu panel hard drive or a default image of the Windows 2000 NTFS system partition on the Recovery CD. This eliminates the need to replace a corrupted hard drive or a complete Menu panel assembly in the field.

The Recovery CD also provides a means to backup a working system to the backup partition for emergency recovery. Just prior to shipment from the factory, all new or replacement Menu panel hard drives have their primary NTFS partition (Windows 2000) and default Kalypso or Zodiac Menu panel application backed up to a factory image file located in an **Recovery** folder on a second partition. In case of a system failure, you can use this image or one you have created to restore your system or use the default image from the Recovery CD.

In summary, the Recovery CD can be used for any of the following conditions:

- When the Menu panel hard drive has become corrupted,
- For creating a new backup image of a working system partition after a successful software upgrade, and
- Creating a backup after configuring the Encore Machine Control software on a Kalypso system.

Instructions for using the Recovery CD are given in the sections listed below with a link to their page number.

- [Before You Begin \(page 6\)](#)
- [Configure BIOS To Boot From CD \(page 10\)](#)
- [Create a Backup Image File \(page 11\)](#)
- [Recovery Procedures \(page 17\)](#)

## Before You Begin

Read this section before you begin any of the procedures to note any cautionary statements and do any recommended procedures.

**CAUTION** Do not run this CD procedure until you have read the instructions given here. Rebooting with the CD or creation of the backup partition will overwrite hard drive configuration completely, including user files stored on the hard drive.

## Menu Panels Identification

These procedures apply to all Zodiac Menu panels and newer or replacement Kalypso Enhanced Menu panels. The newer Menu panels used on Kalypso can be distinguished from the older version by noting the following characteristics:

- No upper level menu pushbuttons on the left of the Menu panel, and
- An internal CD-ROM drive is installed on the right side of the Menu panel.

## Attach Mouse and Keyboard

You will need to have a standard PS/2 mouse and keyboard attached to the Menu panel to do these procedures as the Touch Screen will not be operational. If you need to attach a mouse and keyboard, power the Menu panel down before attaching them. Power down the Menu panel by turning off power inside the Main panel. The mouse and keyboard connectors are clearly labeled on the bottom of the Menu panel.

## **Record IP Addresses**

If the Menu panel application is still operational, record the Hardware IP address settings for the Video Processor frame and Main panel in the Menu panel Eng Setup – System – Config menu ([Figure 1](#)). These IP address will be overwritten if you are using the Factory default image from the Recovery CD to restore the hard drive. They provide the pathways between the Menu panel and the Video Processor frame and Main panel.

To locate the IP address information on the Menu panel:

1. If still operational, open the Menu panel application on the Menu panel touch screen to the Home menu.
2. Touch the **Eng Setup** button on the Home menu. Touch the **System** category button at the bottom of Eng Setup to bring up the System menu. Touch the **Config** button in the System pane on the left to bring up the Config menu shown in [Figure 1](#).

**Note** The screen shot in [Figure 1](#) shows the default IP addresses for the Zodiac switcher. Make note of the IP addresses for your own switcher.

3. Record the values for the IP addresses exactly as shown in the hardware pane. On Zodiac systems (shown in [Figure 1](#)), the Frame IP and RT Panel IP addresses will need to be entered after re-configuring the hard drive. On Kalypso systems (not shown), the Frame IP and Still Store IP (if the Still Store option is installed) will need to be entered after hard drive re-configuration.

Figure 1. IP Addresses in Status & Diags Menu (Zodiac Menu Shown)

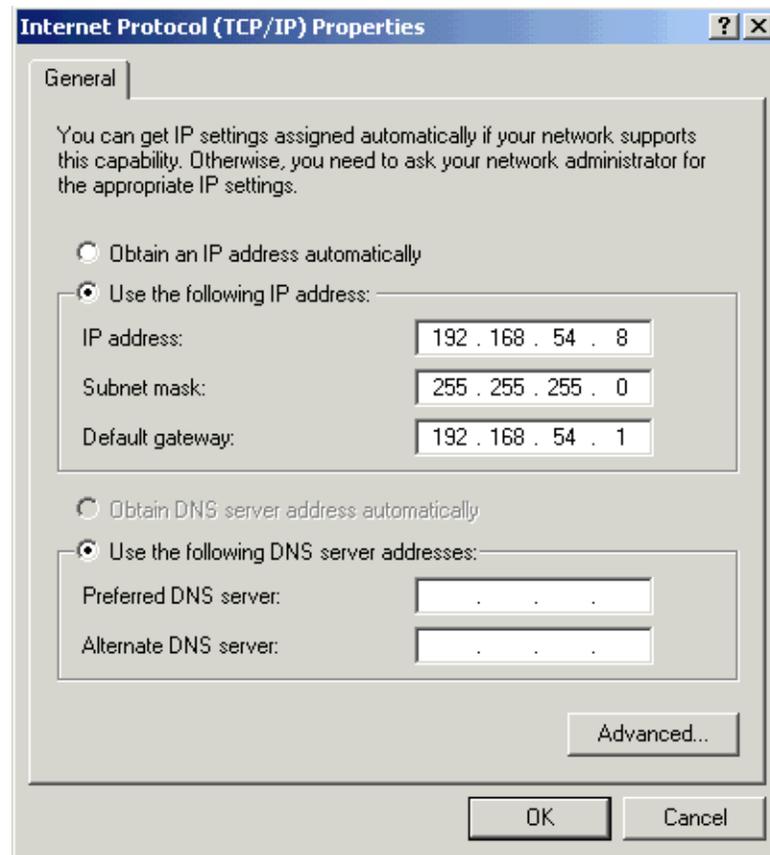


Also, if possible record the Windows 2000 TCP/IP address using the standard Windows 2000 interface. You may use the touch screen to access the Windows settings but you will need to use a mouse and keyboard connected to the Menu panel for entering or changing the IP address values. To record the current Menu panel address do the following.

1. Go to the following location in Windows 2000: **Start\Settings\Network and Dial-up Connections**.
2. Touch the **Local Area Connection** icon to bring up the **Local Area Status Dialog Box**, then press the **Properties** button.
3. Touch the **Internet Protocol (TCP/IP)** line in the list window to bring up the **Internet Protocol (TCP/IP) Properties** dialog box ([Figure 2](#)).

**Note** The screen shot in [Figure 2 on page 9](#) shows the default IP addresses for the Zodiac switcher. Make note of the IP addresses for your own switcher.

Figure 2. Menu Panel IP Addresses (Zodiak Menu Shown)



4. In the **IP address** field, note the Menu panel IP address assigned.
5. Note the **Subnet mask** value (255.255.255.0).
6. Note the IP address in the **Default gateway** field.
7. Record these IP address values in case you need to re-enter them later after restoring the hard drive.

## Configure BIOS to Boot From CD

To boot up from the Recovery CD it is necessary to configure the Menu panel CMOS Setup to boot first from the Recovery CD and then from the hard drive.

To change this setting:

1. Reboot the Menu panel by pressing the **Menu Reset** button (Zodiak) or **Menu Panel Reset** (Kalypso) inside the Main panel, or use the **Reset** button on the back of the Menu panel.
2. Enter the CMOS setup sequence by pressing the **Delete** button on the keyboard as soon as Menu panel processor begins to boot.

Once you are on the CMOS Setup Utility screen do the following:

3. Arrow down to **BIOS Features Setup** and hit **Enter**.
4. Arrow down to **Boot Sequence** and press **Page Down** until the sequence reads **CDROM, C, A**.
5. Press **ESC**.
6. Press **F10** to save and exit.

## Reconfigure BIOS after Using Recovery CD

After using the Recovery CD for making a backup or restoring an image, it is recommended that you reconfigure the Menu panel BIOS back to the default boot sequence to avoid unexpected boot errors during normal operation.

Follow the procedure above and return the boot sequence to **C, CDROM, A**.

## Create a Backup Image File

You may use the **Create Image** function to create a backup of your working system at any time not only after a system failure. Backup is recommended every time you install a new version of software or make other major system changes. A backup image is made at the factory for every system before it ships.

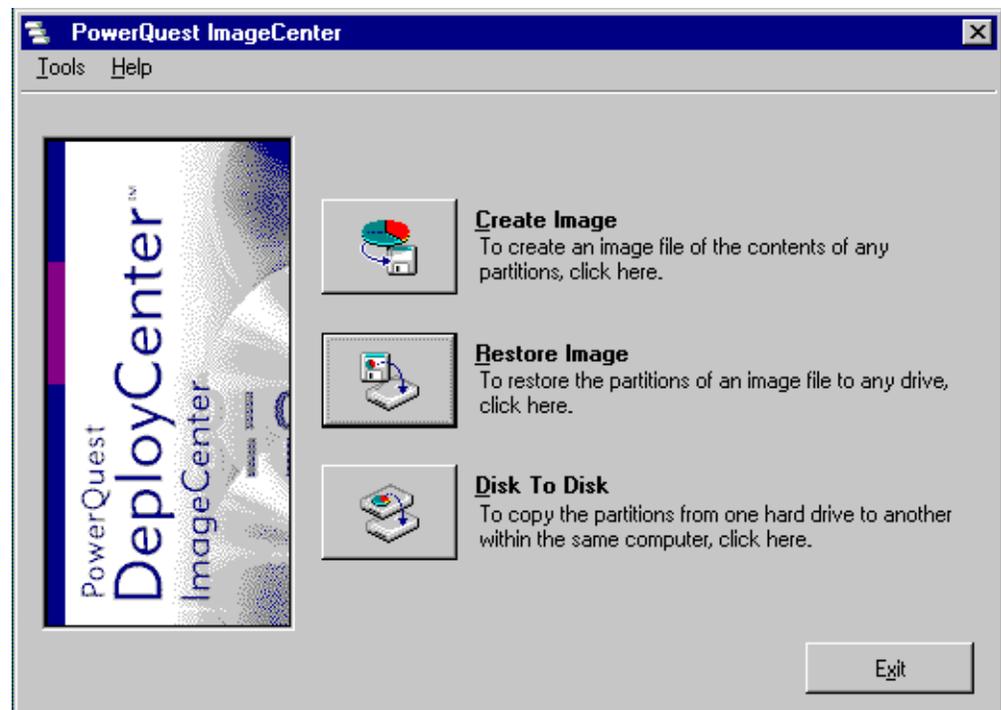
Before you create a backup image file you must verify that there are two partitions on the Menu panel hard drive. To determine if your hard drive has been partitioned, do the following:

1. Place the Recovery CD in the Menu panel CD-ROM drive on the right of the Menu panel and restart the system, or reboot the Menu panel (inside the Main panel lid or on the underside of the Menu panel).

**Note** If you are using a Menu panel mounted with a Flush Mount kit, you will need to unrack the panel and use the local CD-ROM drive on the right side of the panel. This procedure will not work with the external USB CD-ROM drive.

2. The PowerQuest DeployCenter ImageCenter software on the Recovery CD will start automatically on the Menu panel screen (Figure 3). You will be given a choice to either **Create Image**, **Restore Image** or **Disk To Disk** (not used in this procedure).

Figure 3. DeployCenter ImageCenter



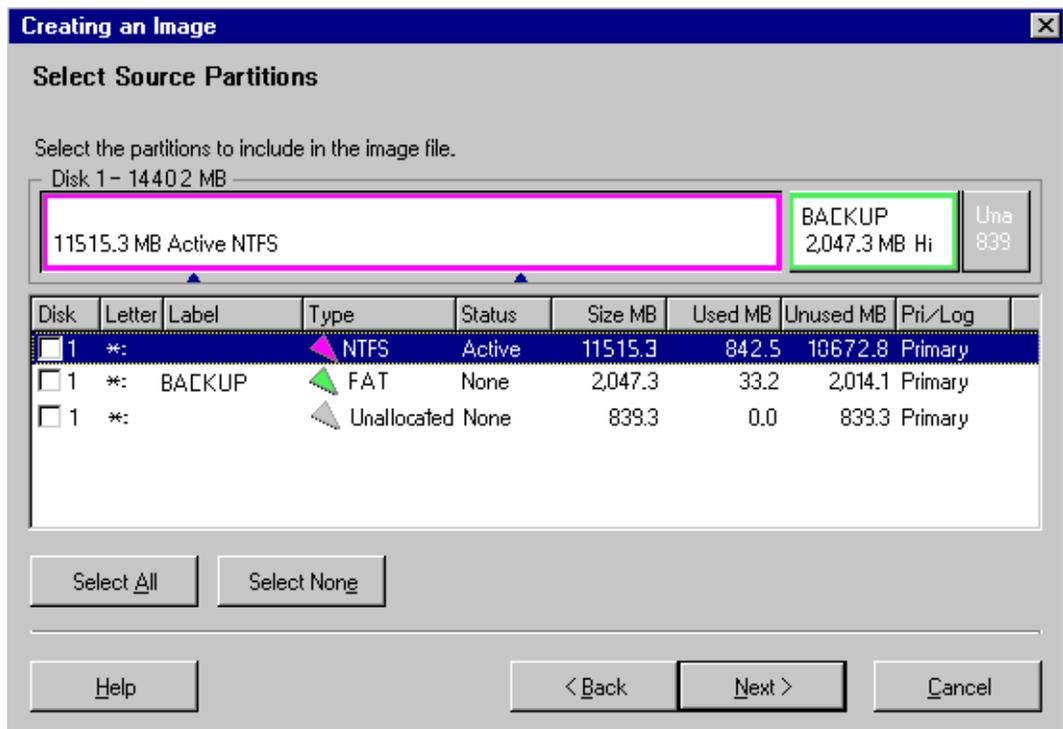
3. Click on **Create Image**. The **Select Source Partitions** screen (Figure 4) will display all of the partitions on the Menu panel hard drive.

**Note** The size of your hard drive and partitions may be different than what is shown here depending on when your system was manufactured and shipped.

Menu panels set up at the factory should have an **NTFS** and a **FAT** partition in addition to any unallocated space as illustrated in Figure 4.

**Note** If only one partition appears in the list, it will be necessary to first partition the drive using the procedure in [Restore Default Image From Recovery CD on page 22](#).

Figure 4. Select Source Partitions Screen

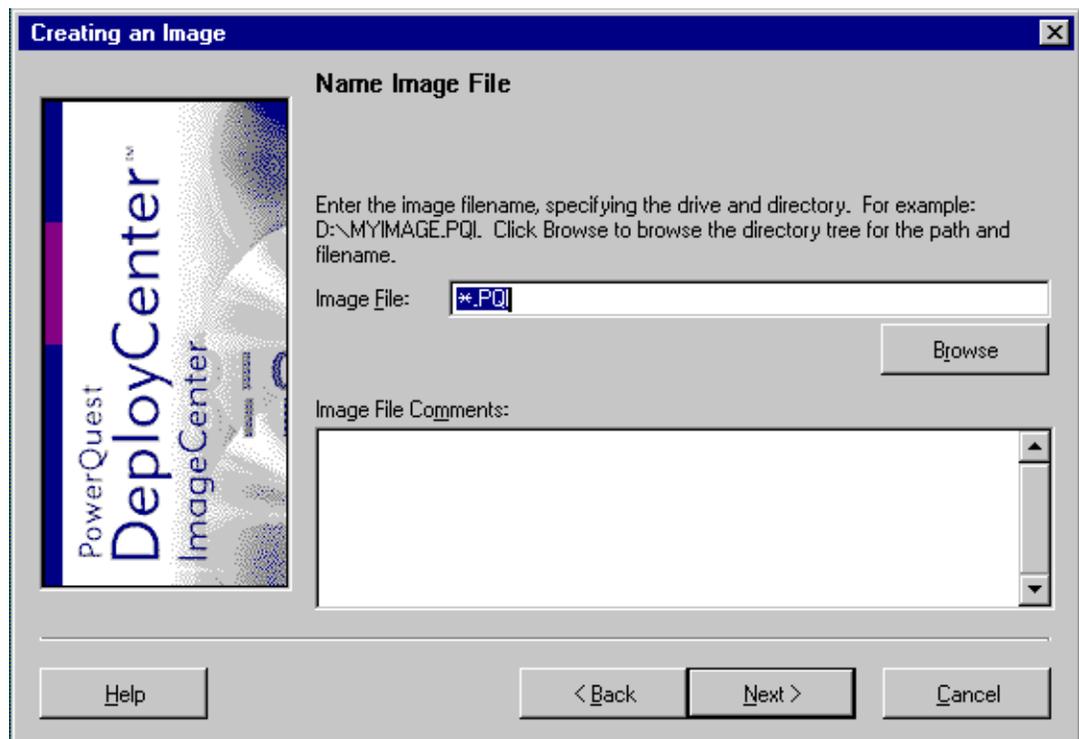


## Create Backup Image of Working System

To create a backup image file of a working system:

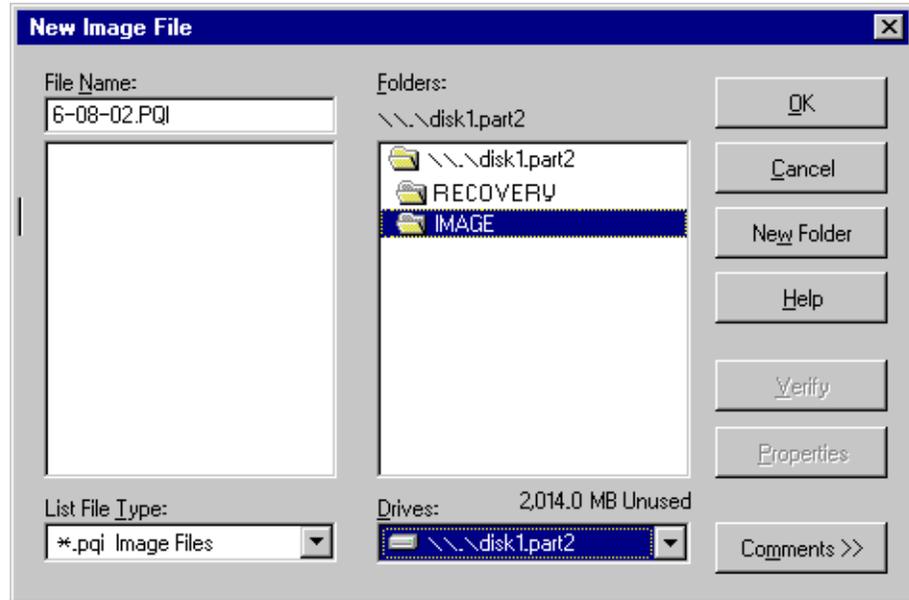
1. In the Select Source Partition screen (Figure 4 on page 12), check the box next the active partition labeled **NTFS**. This will normally be the first partition in the list.
2. Click **Next**.
3. On the **Name Image File** screen (Figure 5), click **Browse** to find the backup partition to save the image to.

Figure 5. Name Image File Screen



4. In the **New Image File** screen (Figure 6), click the down arrow on the **Drives** field.
5. Select \\\_\Disk1.part 2 (BACKUP).

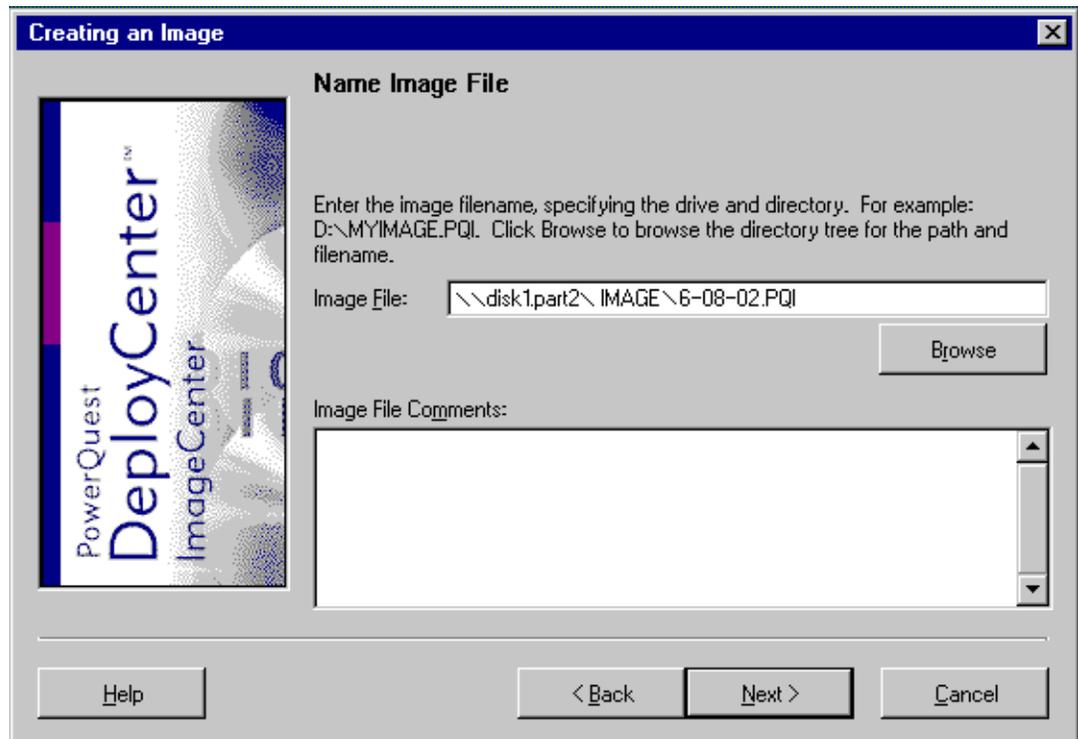
Figure 6. New Image File Screen



6. Select a folder in the backup partition in which to save the image. The **Recovery** folder contains the factory default image. You can also create your own folder, such as **Image**, if desired by clicking the **New Folder** button and naming the folder.
7. In the **File Name:** field enter a descriptive name for the image you are saving with eight characters or less. Using the date, such as 6-08-02 or the software version, is recommended.
8. Click **OK**.

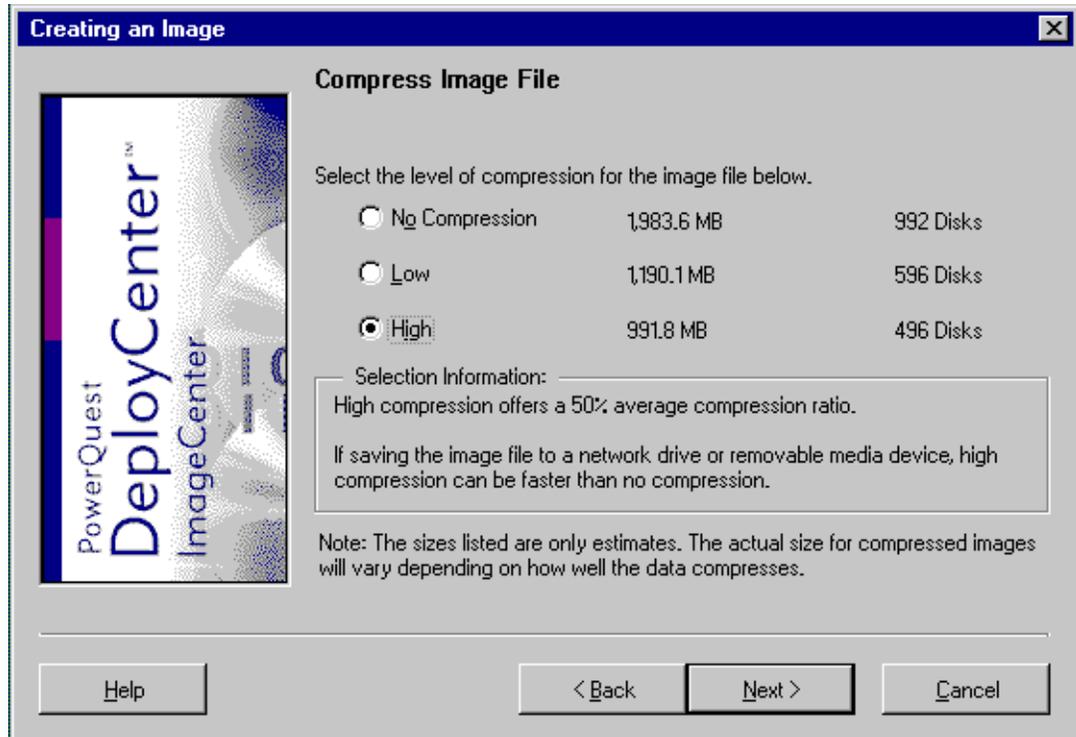
9. Verify the path and image file name are correct on the **Name Image File** screen (Figure 7).
10. You may also add comments about the file if desired by typing in the **Image File Comments:** text box.
11. Press **Next** to continue.

Figure 7. Name Image File Screen



12. In the **Compress Image File** screen (Figure 8), select **High** compression and click **Next**.

Figure 8. Compress Image File Screen



13. This will bring up the **Ready to Create Image File** screen. (not shown).
14. Check the information and click **Finish**. The process will take several minutes to save.
15. When finished, click **OK** and **Exit** from the main menu.
16. Remove the CD from the drive and press **Ctrl/Alt/Delete** on the keyboard or press the **Reset** button on the back of the Menu panel to reset the Menu panel and return to Windows.

You will now have a backup image of your working drive on the backup partition (\\disk1.part2). You may use this backup if there is a hard drive failure or to restore this image to the main partition using the recovery procedures given next.

17. If you are finished using the Recovery CD, it is recommended that you reconfigure the Menu panel BIOS back to the default boot sequence to avoid any boot errors during normal operation. Refer to [Reconfigure BIOS after Using Recovery CD on page 10](#) and reconfigure the BIOS back to boot sequence: **C, CDROM, A**.

# Recovery Procedures

Using the **Restore Image** function on the Recovery CD allows you to restore the Menu panel hard drive to one of the following:

- A factory- or user-saved image of the Windows 2000 operating system and Menu panel application from a **Backup** partition, or
- If no backup partition is accessible, a Windows 2000 operating system image from a default GVG image file and a **Backup FAT** partition from the Recovery CD.

**Note** The default GVG image from the Recovery CD contains the operating system only. It does not include any Zodiac or Kalypso application software. You will need to reload the correct version of Zodiac/Kalypso software from your software distribution CD. If you can't find your software distribution CD the software can be downloaded from <ftp://ftp.grassvalleygroup.com/>.

## Restore Image From Backup Partition

If your Menu panel hard drive has become corrupted, you can attempt to boot up the Menu panel from the Recovery CD to restore either a factory image or a user-saved image from the backup partition as follows:

1. Place the Recovery CD-ROM (Part # 063808701) in the Menu panel CD-ROM drive on the right of the Menu panel. Turn off the power and restart the system, or reboot the Menu panel (inside the Main panel lid or on the underside of the Menu panel).

**Note** If you are using a Menu panel mounted with a Flush Mount kit, you will need to unrack the panel and use the local CD-ROM drive on the right side of the panel. This procedure will not work with the external USB CD-ROM drive.

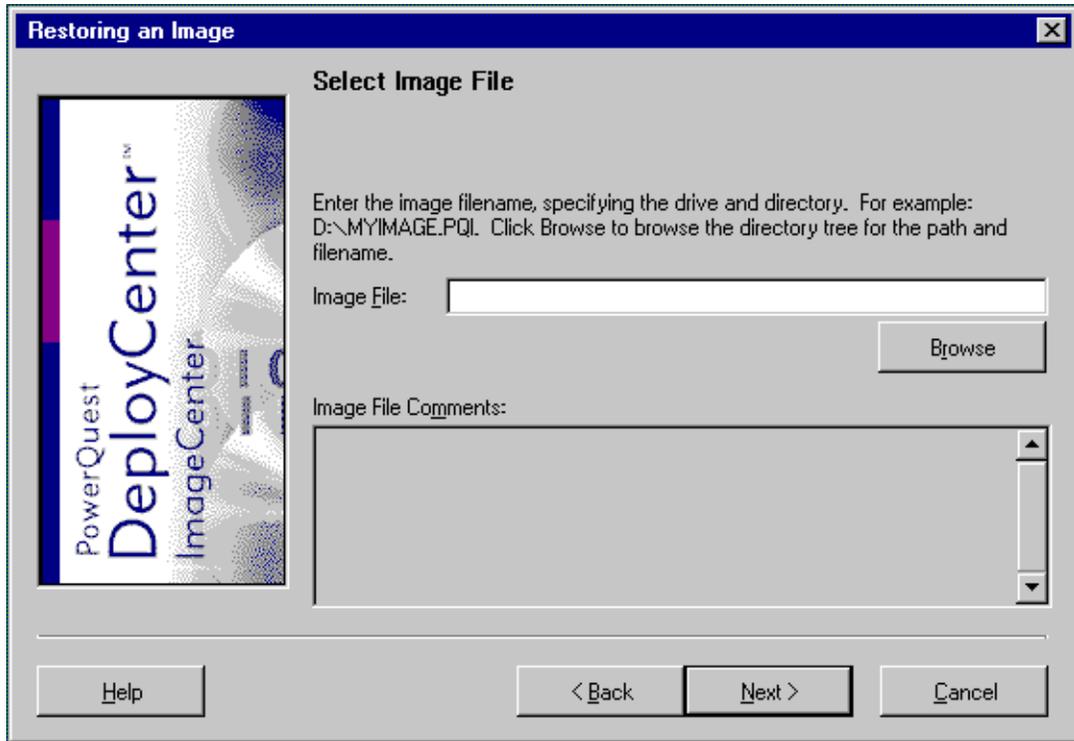
2. The PowerQuest DeployCenter ImageCenter software on the Recovery CD will start automatically on the Menu panel screen ([Figure 3 on page 11](#)). You will be given a choice to either **Create Image**, **Restore Image** or **Disk To Disk** (not used in this procedure).

**Note** The touch screen is no longer operational in this mode. You must use the mouse and keyboard.

3. Click the **Restore Image** button.

4. In the **Select Image File** screen (Figure 9), click **Browse** to locate a recovery image file to restore from.

Figure 9. Select Image File



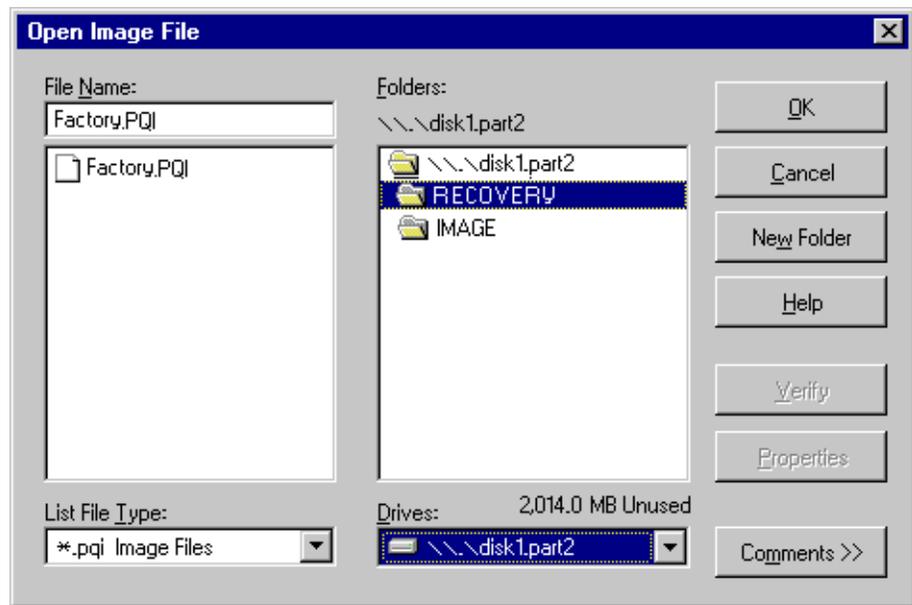
- In the **Open Image File** screen (Figure 10), click on the **Drives** field to open the pulldown window showing accessible drives and partitions.

Select \\.\disk1.part2 BACKUP. Select the **Recovery** folder. This is where a factory default image will be stored. The factory image was saved before the unit shipped and contains both the Windows 2000 operating system and the Menu panel application.

If you have a user-saved image of your system, locate the folder where it is stored and select it.

- Note** If no partitions are accessible, you will need to use the default GVG image from the Recovery CD as described in [Restore Default Image From Recovery CD on page 22](#).

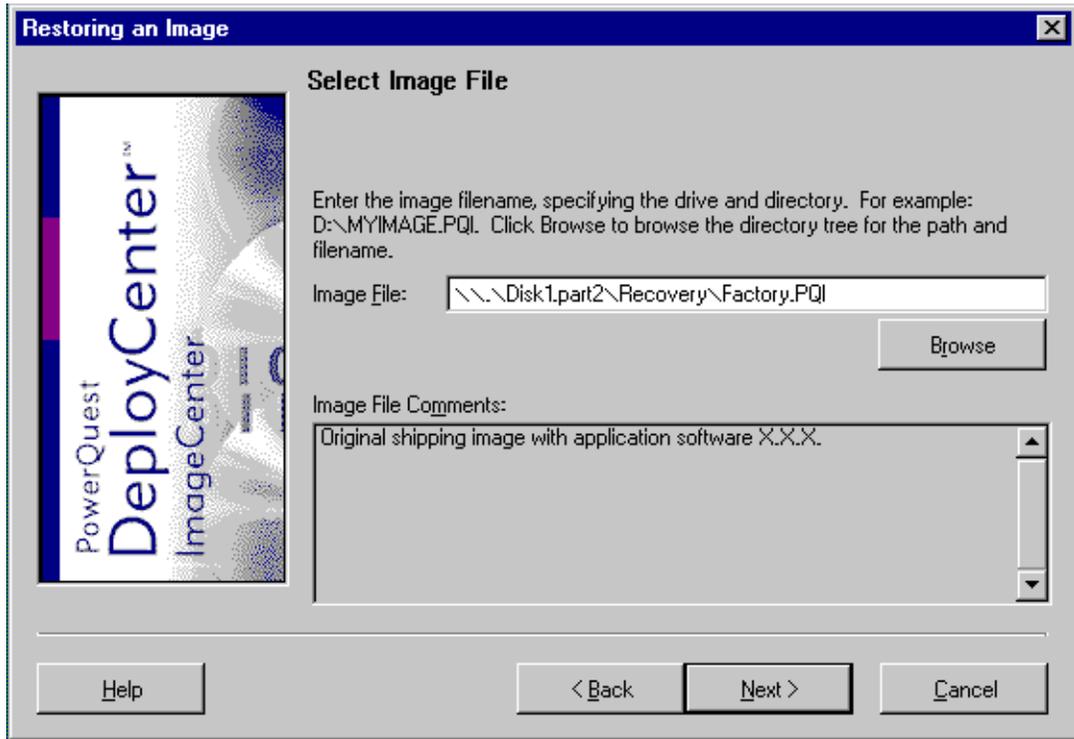
Figure 10. Open Image File Screen



- Double click the **Recovery** folder (or the folder where you have stored your image file) and select the **Factory.PQI** image file (or your user-saved file) to restore so that it appears in the **File Name:** window and click **OK**.

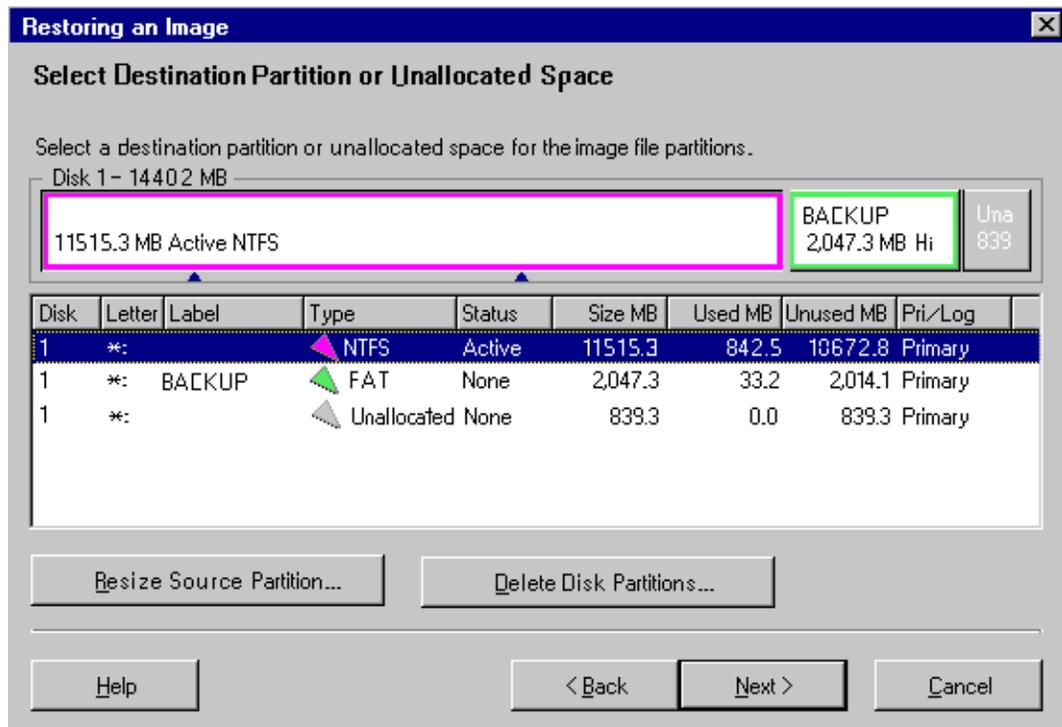
7. The **Select Image File** screen will display with the path to the selected image file to restore from and any comments about the file in the **Image File Comments** field (Figure 11).
8. If this is correct, click **Next**.

Figure 11. Select Image File Screen



9. This will bring up the **Select Destination Partition or Unallocated Space** display (Figure 12), select the **NTFS** choice as the destination partition.
10. Select **Next**.
11. You will get a popup message telling you that you must delete the partition to restore the image, click **OK**.

Figure 12. Select Destination Partition



12. In the **Ready To Restore Image** display (not shown), click **Finish**. The display will return to the main screen for a few seconds and then begin the restoration process. Wait for the restore routine to begin. Do not press the **Restore Image** button in the main screen again.
13. A **Restoring the Image...** status screen will display showing the progress of the restoration process.
14. When the **Image was restored successfully. Would you like to view the results?**, pop-up appears, select **Yes**.
15. Select the **Close** button at the lower right of the Display Drive Information screen.
16. Press **Exit** to bring up the DOS prompt.
17. Remove the CD from the drive and press **Ctrl/Alt/Delete** or press the **Reset** button on the back of the Menu panel to reset the Menu panel and return to Windows.

18. If you have restored the Factory image, you should now have a working Windows 2000 operating system and a Menu panel application. If the software version restored is not the current version, reinstall the latest software using the current software CD. The IP addresses will be the default values entered at the factory. If you do not use the defaults, you will need to reconfigure the correct values as described in [Record IP Addresses on page 7](#).
19. Once the system is back up and running in normal operation, it is recommended that you backup your current working system. Refer to [Create Backup Image of Working System on page 13](#) for instructions.
20. It is also recommended that you reconfigure the Menu Panel BIOS back to the default boot sequence to avoid any boot errors during normal operation. Refer to [Reconfigure BIOS after Using Recovery CD on page 10](#) and reconfigure the BIOS to boot sequence: **C, CDR0M, A**.

## Restore Default Image From Recovery CD

If your Menu panel hard drive has become corrupted, first try to restore an image using [Restore Image From Backup Partition on page 17](#). If you cannot access a backup partition to restore your hard drive, you will need to use the following procedure to restore a default operating system and install a backup partition.

**CAUTION** Using the default image from the Recovery CD will erase the hard drive and install an image of the Windows 2000 operating system only. Any user-saved folders, files, shortcuts, and the Menu Panel application will be overwritten. You will also need to reinstall Menu Panel software once the hard drive has been restored.

1. Place the Recovery CD in the Menu panel CD-ROM drive on the right of the Menu panel and power down and restart the system, or reboot the Menu panel (inside the Main panel lid or on the underside of the Menu panel).

**Note** If you are using a Menu panel mounted with a Flush Mount kit, you will need to unrack the panel and use the local CD-ROM drive on the right side of the panel. This procedure will not work with the external USB CD-ROM drive.

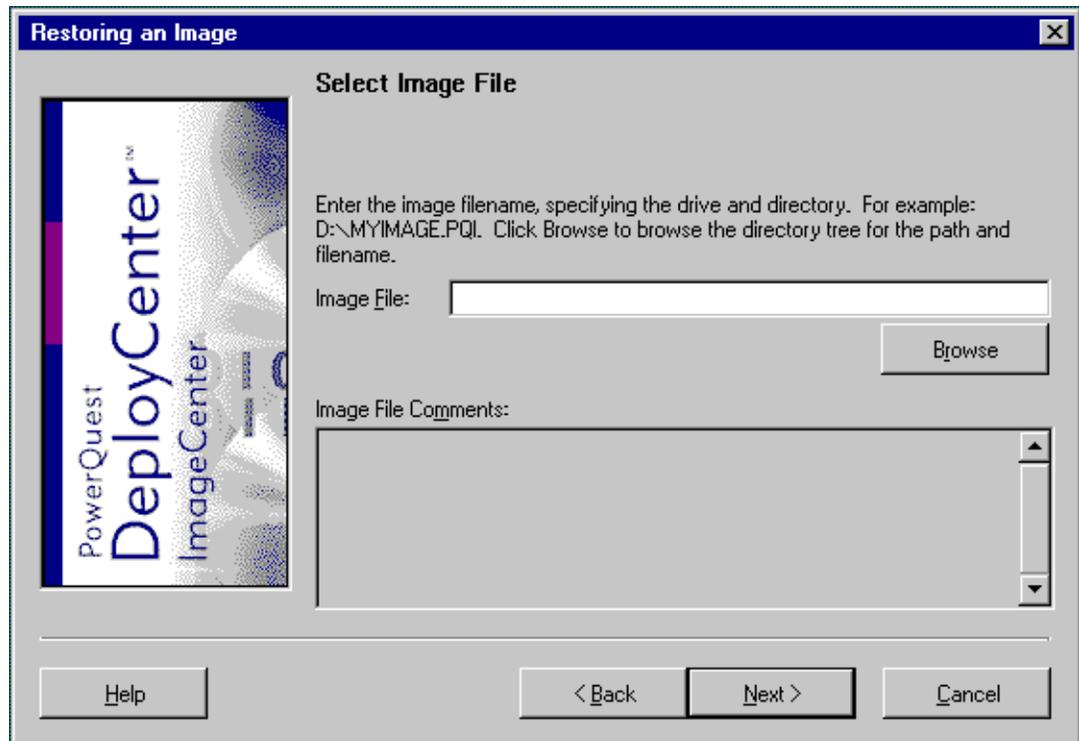
2. The PowerQuest DeployCenter ImageCenter software on the Recovery CD will start automatically on the Menu panel screen ([Figure 3 on page 11](#)). You will be given a choice to either **Create Image**, **Restore Image** or **Disk To Disk** (not used in this procedure).

**Note** The touch screen will no longer be operational in this mode. You must use the mouse and keyboard.

3. Click the **Restore Image** button.

4. In the **Select Image File** screen (Figure 13), click **Browse** to locate a recovery image file to restore from.

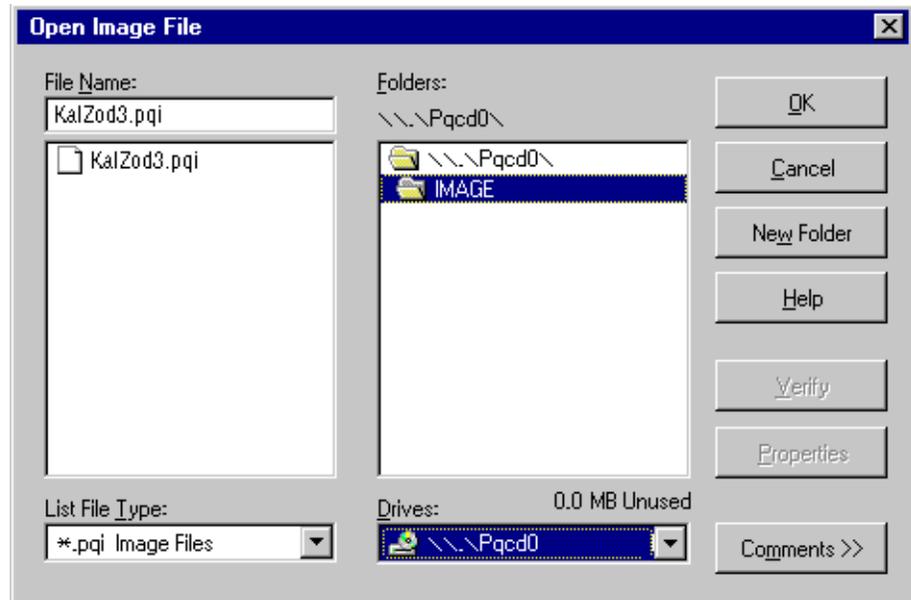
Figure 13. Select Image File



5. In the **Open Image File** screen (Figure 14), click on the **Drives** field to open the pulldown window showing accessible drives and partitions.

6. Select \\.\Pqcd0. This is where the GVG default image is stored on the CD-ROM.

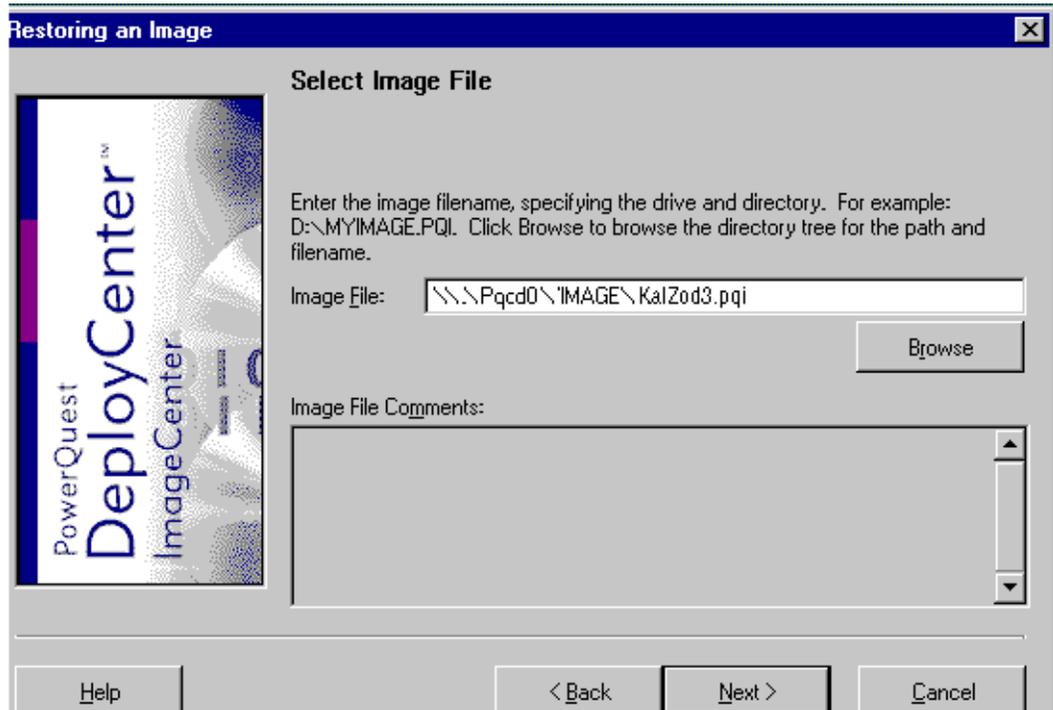
Figure 14. Open Image File Screen



7. Click the **IMAGE** folder and select the **KalZod3.PQI** image file so that it appears in the **File Name:** window and click **OK**.

8. The **Select Image File** screen will display with the path to the selected default CD image file and any comments about the file in the **Image File Comments** field (Figure 15).
9. If this is correct, click **Next**.

Figure 15. Select Image File Screen

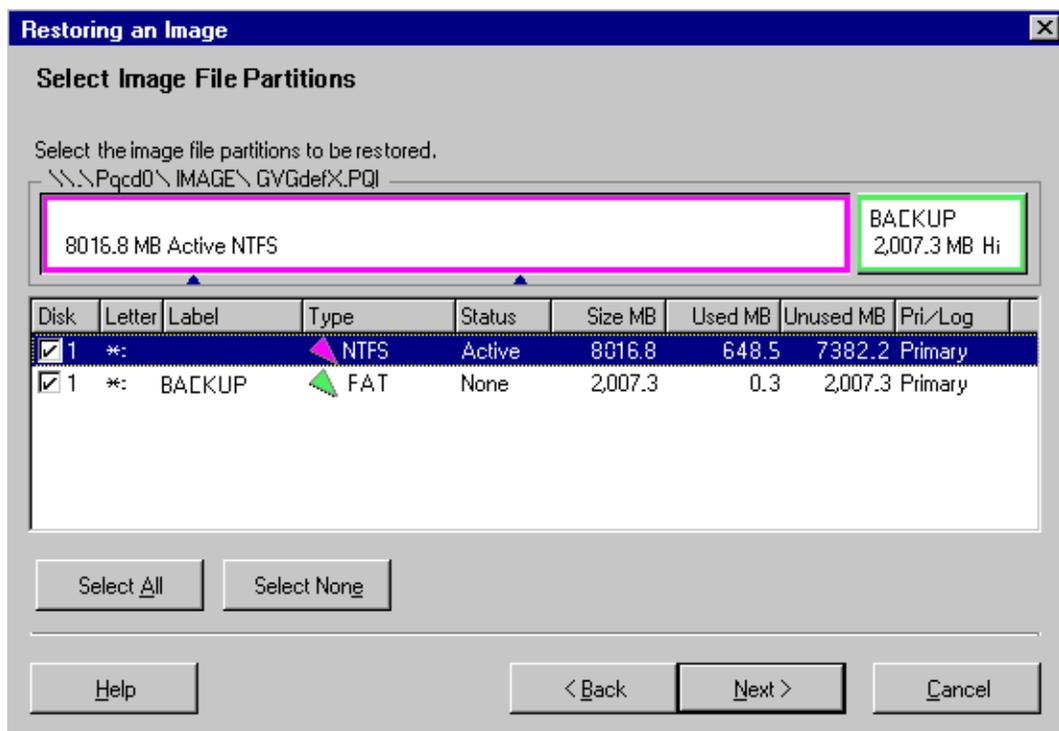


- This will bring up the **Select Image File Partitions** display (Figure 16) which shows the contents of the GVG default backup partition you have selected to restore from.

**Note** The size of your hard drive and any partitions may be different than what is shown here depending on when your system was manufactured and shipped.

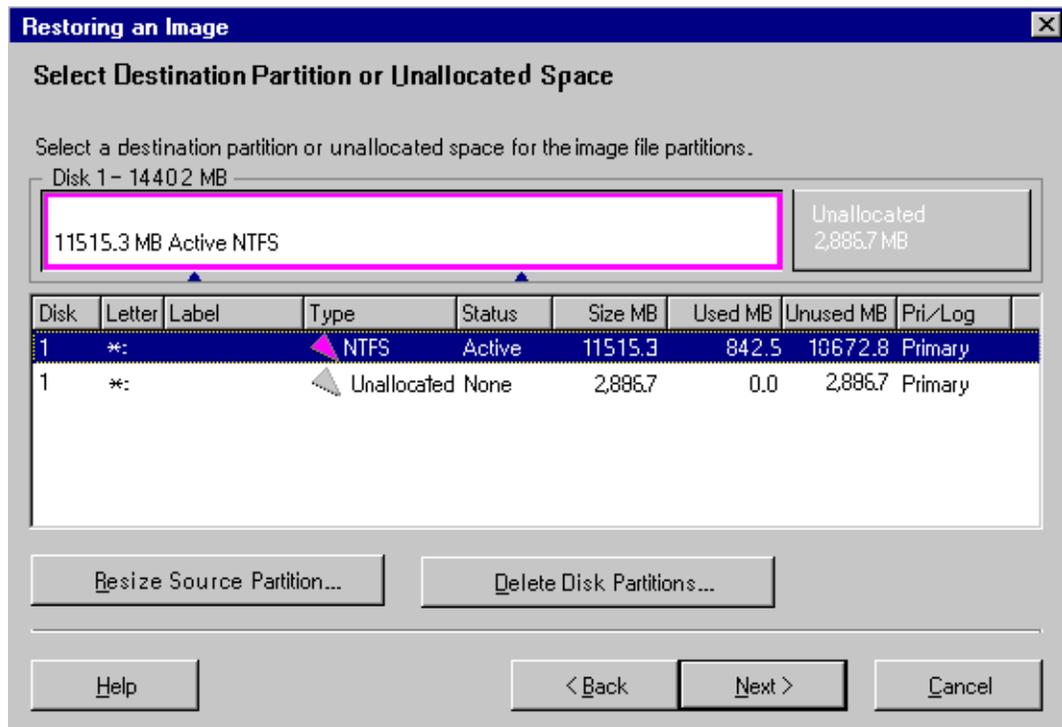
- Check both the **NTFS** and the **FAT** partitions to restore or click the **Select All** button. This will install a backup **FAT** partition in addition to the main **NTFS** image.
- Click **Next**.

Figure 16. Select Destination Partition



13. The **Select Destination Partition or Unallocated Space** screen will display. Depending on the status of your hard drive, the display may show an **NTFS** partition with some unallocated space (as shown in [Figure 17](#)).
14. Before restoring the GVG default **NTFS** and **FAT** partitions, you will first need to delete any existing partitions. To do this, select the **Delete Disk Partitions** button.

Figure 17. Select Destination Partition



15. In the **Delete Partitions** screen (not shown) select **Delete All, Yes,** and **Next** to the prompts.
16. The display will change to show all unallocated space. Select **Close**.
17. In the **Select Destination Partition or Unallocated Space**, select **Next**.
18. A **Resize Options** popup screen will popup. Select **Automatically resize partitions proportionally to fit**, and click **OK**.
19. In the **Ready To Restore Image** display (not shown), click **Finish**. The display will return to the main screen for a few seconds and then begin the restoration process. Wait for the restore routine to begin. Do not press the **Restore Image** button in the main screen again.
20. A **Restoring the Image...** status screen will display showing the progress of the restoration process. It will take about 5 minutes to restore.
21. When the **Image was restored successfully. Would you like to view the results?**, pop-up appears, select **Yes**.
22. Select the **Close** button at the lower right of the Display Drive Information screen.
23. Select **Exit** to bring up the **Reboot** prompt.
24. Remove the CD from the drive and press the **Reboot** button to reset the Menu panel and return to Windows.

## Reinstall Software

Since you have restored the GVG default image from \\ . \Pqcd0 to the hard drive, only the Windows 2000 operating system will be installed. You will need to reinstall the Zodiak or Kalypso Menu panel application from the software CD provided with your system or by a software update.

You may also download this software from the Grass Valley Group ftp site onto a read-write CD for installation. Follow the software download instructions as given in the Release Notes that accompany the software.

You may need to reconfigure some Menu panel parameters for new version software. User and Suite Prefs and Eng Setups set up in the Menu panel application are stored on the Video Processor frame hard drive and should always be saved to a Zip drive whenever configuration is done. These settings will not be lost.

Once you have created a backup partition and successfully restored the Windows 2000 operating system, installed the current Kalypso or Zodiak software, and done any necessary configuration, you can create a backup image of the functioning system on the backup partition (see [Create Backup Image](#) below).

## Check IP Addresses

Using the Zodiak or Kalypso Menu panel application, repeat the procedure given in [Record IP Addresses on page 7](#) to check or change IP addresses in the Menu panel Eng Setup – System– Config menu and the Windows 2000 TCP/IP to the values necessary for your network.

## Create Backup Image

After restoring your operating system and Kalypso or Zodiak menu application, you can backup this working image onto the backup partition as described in [Create a Backup Image File on page 11](#).

## Reconfigure Menu Panel BIOS

It is also recommended that you reconfigure the Menu Panel BIOS back to the default boot sequence to avoid any boot errors during normal operation. Refer to [Reconfigure BIOS after Using Recovery CD on page 10](#) and reconfigure the BIOS to boot sequence: **C, CDROM, A**.

