

Field Modification Note

075069200

REFERENCE ECO: **731H**
EFFECTIVITY DATE: **JULY 2002**

ZODIAK
MENU PANEL RECOVERY CD PROCEDURE

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

FMN 075069200

Zodiak Menu Panel Recovery CD Procedure

Purpose

This field modification note provides a bootable Recovery CD that can be used to restore a corrupted hard drive in Zodiak Menu panels with assembly numbers 660-0032-00 or -01 shipped prior to August 2002. Menu panels shipped after that date have had their hard drives partitioned and backed up at the factory and were shipped with the Recovery CD and a manual explaining how to use it. This Recovery CD can also be used to create a backup partition on the hard drive and create a backup image of the working system in case of a later failure.

Parts List

The parts provided with this Field Mod Note are listed in [Table 1](#).

Table 1. Parts List for FMN 075069200

Part Number	Description	Quantity
00113900	DeployCenter License Agreement	1
063807501	CD, PowerQuest DeployCenter	1
063808700	CD, Menu Panel Recovery	1

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.

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 become non-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 or unplugging the power brick if used. 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](#)). You may need to re-enter these values after reinstalling the Zodiak software.

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](#).
3. Record the values for the IP addresses exactly as shown in the hardware pane.

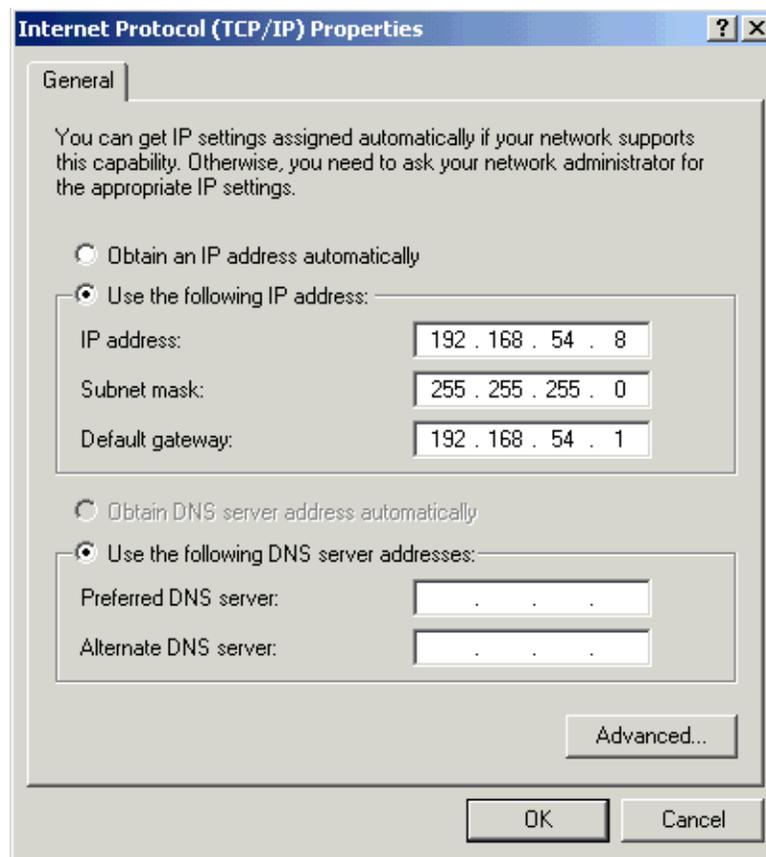
Figure 1. IP Addresses in Status & Diags Menu



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. Double-click 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).

Figure 2. Menu Panel IP Addresses



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 from the Recovery CD, it will be 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 opening the Main panel lid and pressing the **Menu Reset** button (Zodiak) on the front of the Control Panel Processor board, 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 the 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, 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**.

Restore Default Image From Recovery CD

If your Menu panel hard drive has become corrupted, you can use the following procedure to restore a default operating system and install a backup partition.

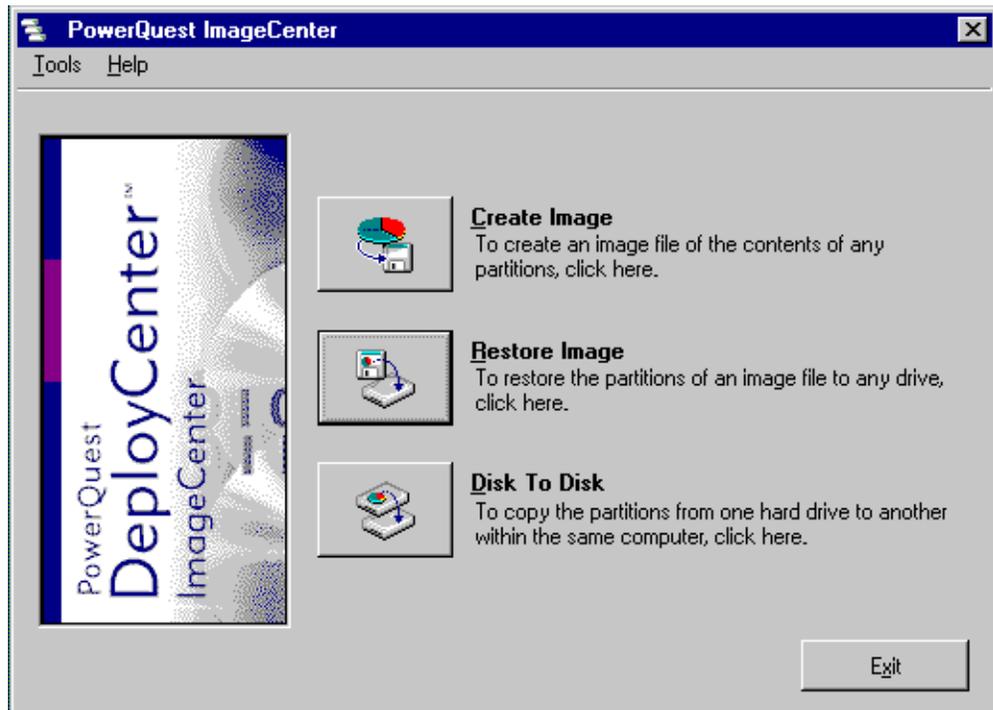
CAUTION Using the default image from the Recovery CD will erase the hard drive and install an image of the Windows 2000 operating system only. Any user-saved folders, files, shortcuts, and the Menu Panel application on the primary NTFS partition will be overwritten. You will also need to reinstall Menu Panel application 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 reboot the Menu panel (press the **Menu Reset** button 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.

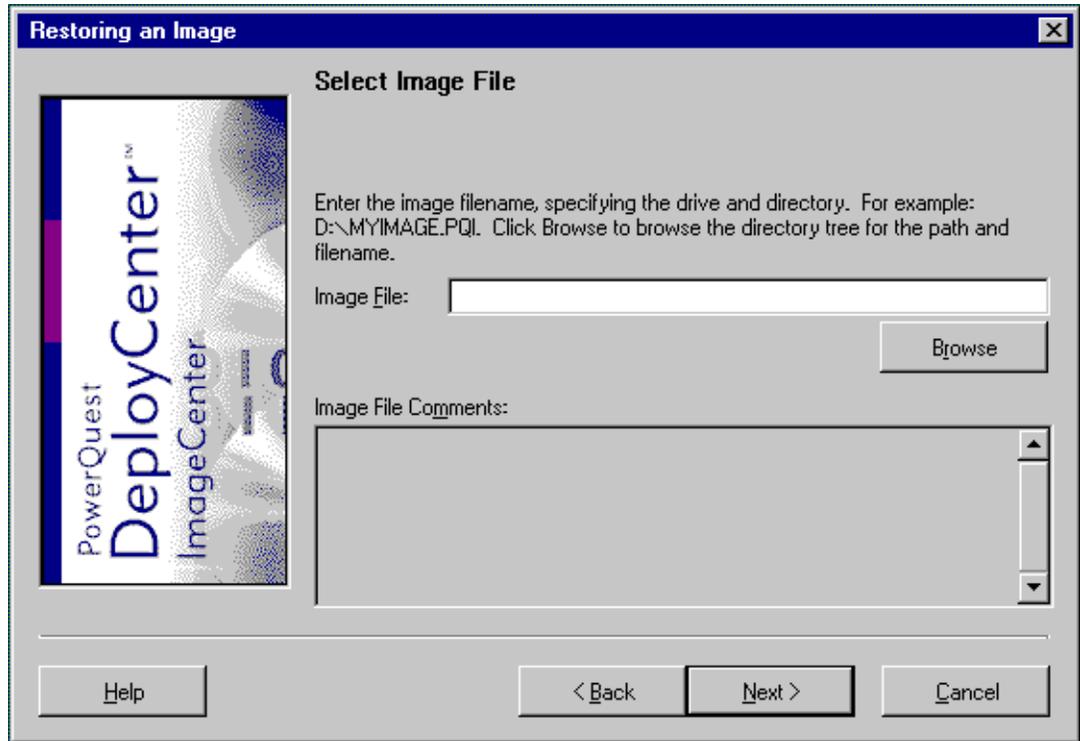
2. The PowerQuest DeployCenter ImageCenter software on the Recovery CD will start automatically on the Menu panel screen (Figure 3). You will be given a choice to either **Create Image**, **Restore Image** or **Disk To Disk** (not used in this procedure).
3. Click the **Restore Image** button.

Figure 3. DeployCenter ImageCenter



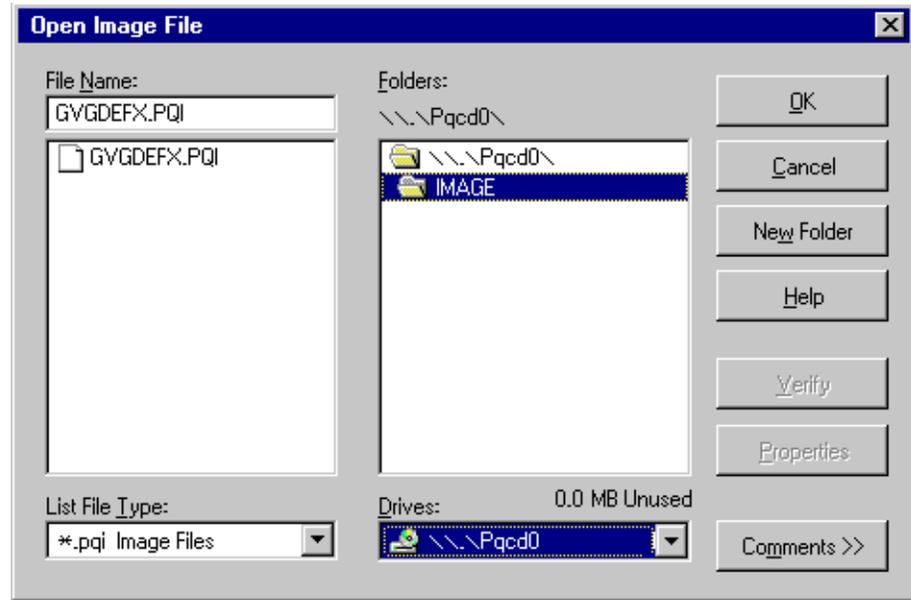
4. In the **Select Image File** screen (Figure 4), click **Browse** to locate a recovery image file to restore from.

Figure 4. Select Image File



5. In the **Open Image File** screen (Figure 5), 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.

Figure 5. Open Image File Screen

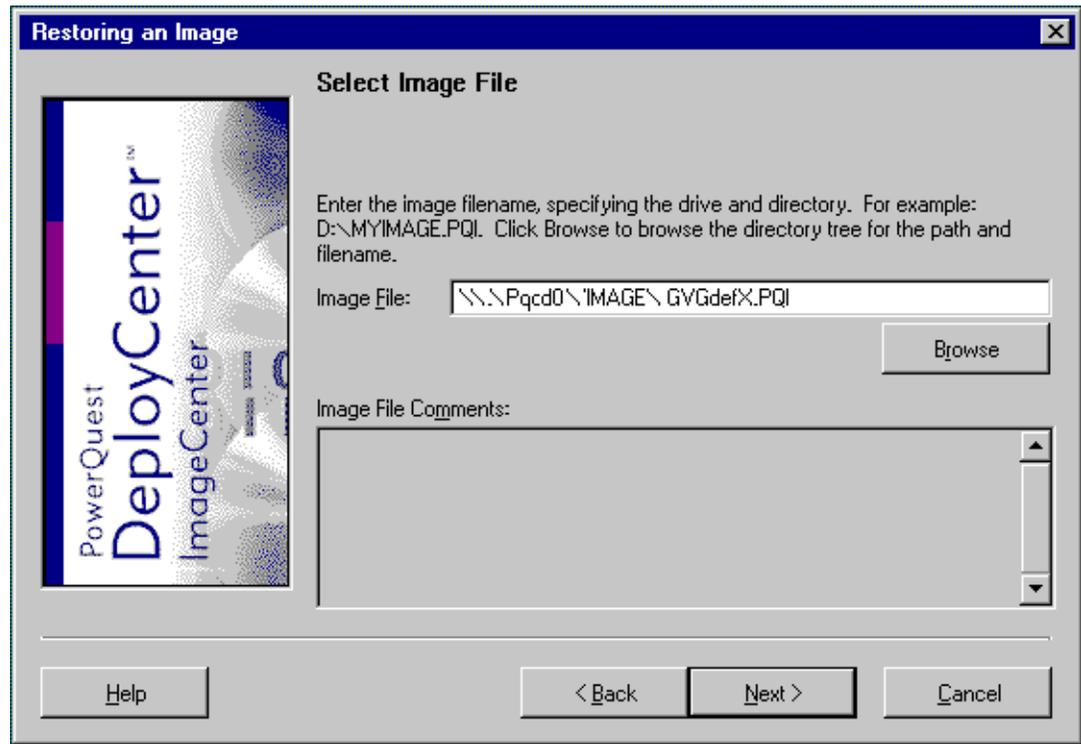


7. Double click the **IMAGE** folder and select the **GVGDEFX.PQI** image file (where the **X** represents the version number) in the left pane to enter it in the **File Name** field and click **OK**.

Note If no **IMAGE** folder appears, double click on the `\\.\Pqcd0` folder.

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 6).
9. If this is correct, click **Next**.

Figure 6. Select Image File Screen

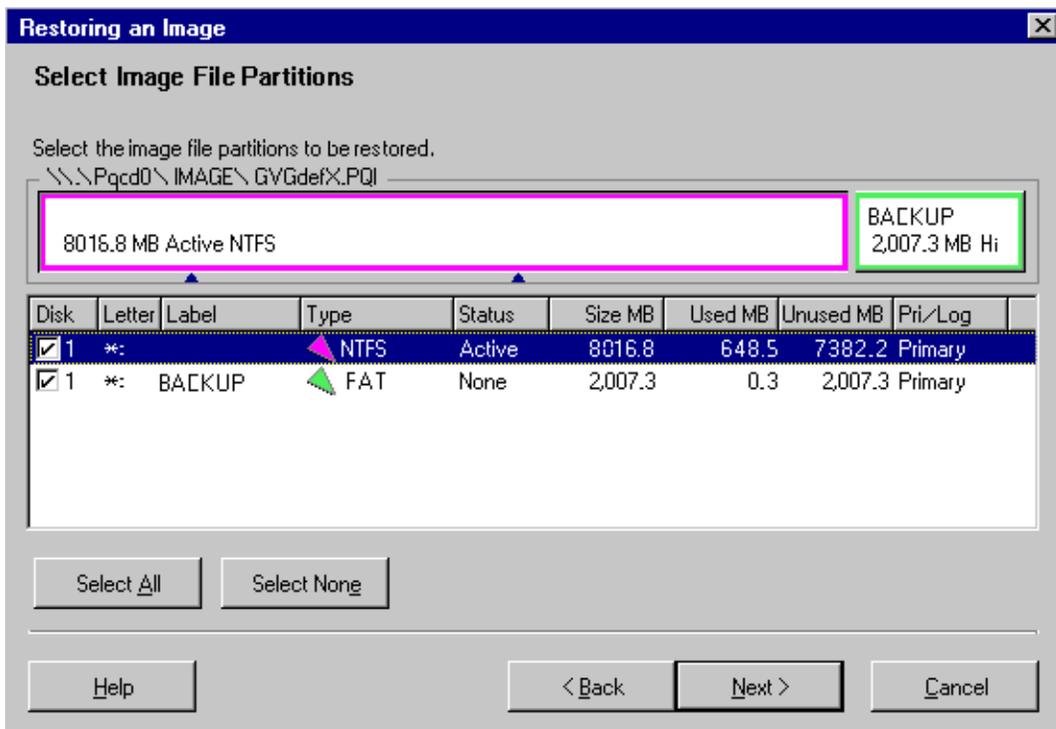


10. This will bring up the **Select Image File Partitions** display (Figure 7) which shows the contents of the GVG default backup partition you have selected to restore from.

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.

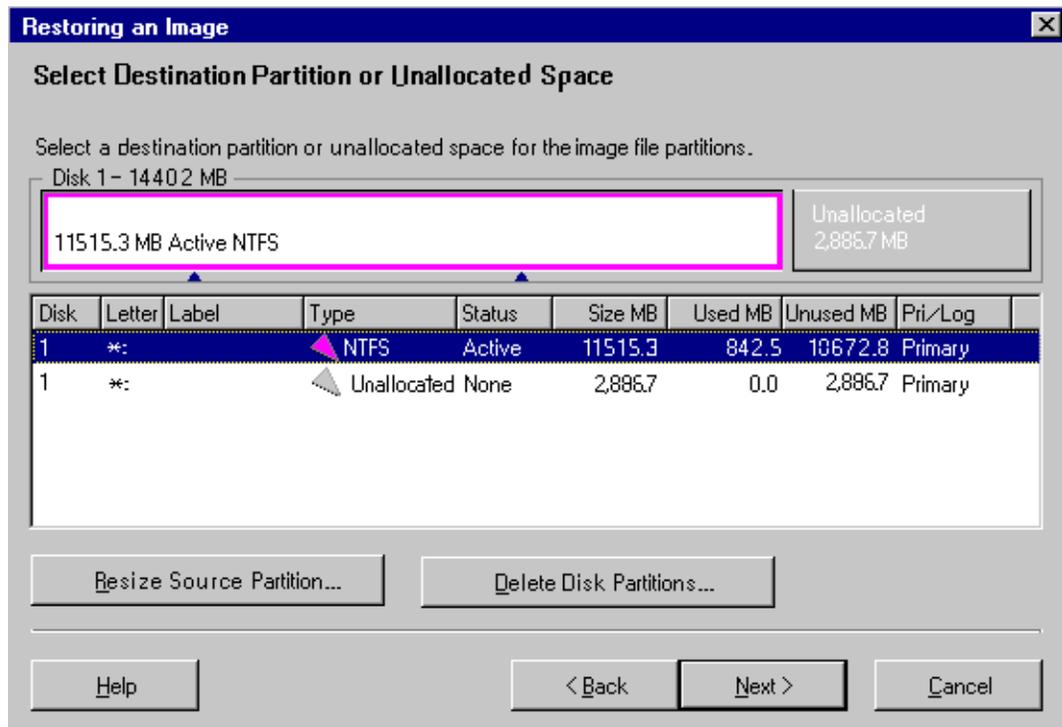
11. Check both the **NTFS** and the **FAT** partitions to restore or click the **Select All** button. This will install a backup **FAT** partition in addition to the main **NTFS** image.
12. Click **Next**.

Figure 7. Select Image File Partitions



13. The **Select Destination Partition or Unallocated Space** screen will be displayed. Depending on the status of your hard drive, the display may show an **NTFS** partition with some unallocated space (as shown in Figure 8).
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 8. 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. A **Resize Options** popup screen will pop up. Select **Automatically resize partitions proportionally to fit**, and click **OK**.

If you have a smaller hard drive than the selected partitions on the CD you will get a popup error message stating that the drive is not large enough to restore the selected partitions. In this case, press the **Resize Source Partitions** button and resize the NTFS partition by the default amount recommended. This will decrease the NTFS partition by the amount of deficit space and the partitions will now fit properly.

18. 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.

19. A **Restoring the Image...** status screen will display showing the progress of the restoration process. This will take between 5 –10 minutes to complete.
20. When the **Image was restored successfully. Would you like to view the results?**, pop-up appears, select **Yes**. You should see an **NTFS** partition and a hidden **FAT** partition.
21. Select the **Close** button at the lower right of the Display Drive Information screen.
22. Select **Exit** to bring up the **Reboot** prompt.
23. Remove the CD from the drive and press the **Reboot** button to reset the Menu panel and return to Windows.
24. After Windows reappears, allow the Menu panel to search for new devices before proceeding. If new hardware is detected, the new hardware wizard will run to install new devices. Press **Yes** at the prompt to reboot again if necessary.

Verify Correct Touch Screen Driver

You will need to verify that the correct Touch Screen driver is installed. This can be done by touching the screen in various places and noting if it responds properly. If so, proceed to [Reinstall Software on page 15](#).

If not, you will need to install the alternate driver that is provided in a Drivers folder on the Local Disk (C:). Two different types of Touch Screens were shipped in the past and they require different drivers. The default driver that has been installed from the GVG image is from 3M (Universal Pointer Device Driver). This driver is for Menu panels with part number 660-0032-01 (printed on the silver sticker on the rear of the Menu panel).

The alternate Touch Screen is labeled with part number 660-0032-00 and uses a driver from ELO. To install the alternate ELO driver, do the following:

1. First, uninstall the default 3M driver. Under the Windows **Start** button, select **Settings/Control Panel/Add/Remove Programs**.
2. This will bring up the Universal Pointer Device Driver device. Select **Add/Remove** and follow the steps to remove the device and reboot the system at the prompt.
3. When Windows restarts, select **Settings/Control Panel/Add/Remove Programs**.
4. Select the **Add New Programs** icon, then the **Add New Programs from Microsoft** selection.
5. Under the Address window pulldown, select **Local Disk (C:)**.

6. Double click on **Local Disk (C:)** and locate the Drivers folder. Double click on this folder to find the Zodiak Touchscreen Drivers folder.

Inside this folder are two drivers, 3M, the default image driver which was removed in step 2 above, and ELO, which is the alternate driver needed.

7. Double click on the ELO folder, then on the ELO.exe application.
8. Select **Unzip** and note the location of the unzipped files. They will save into a default folder called WIN2kSerial Driver on the Local C: drive.
9. Locate the unzipped files and select the **SetupELO.exe** to install the driver.
10. Follow the setup wizard instructions. Select **COM 2** as the serial port for the device.

Note Serial Port COM 1 is used for soft knob control, do not use this port for the above step or the knobs will be disabled.

11. Select **Next**, then **Finish**. Reboot again to install the new driver.
12. Verify operation of the Touch Screen. Recalibrate the Touch Screen by selecting the Windows **Start** button, then selecting **Settings/Control Panel/ELO Touchscreen**.
13. Press the **General** tab and then the **Align** button. Follow the instructions displayed on the screen to complete alignment.
14. You may also turn off the default sound under the ELO Sound tab.

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 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 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 of Working System* on page 16).

Check IP Addresses

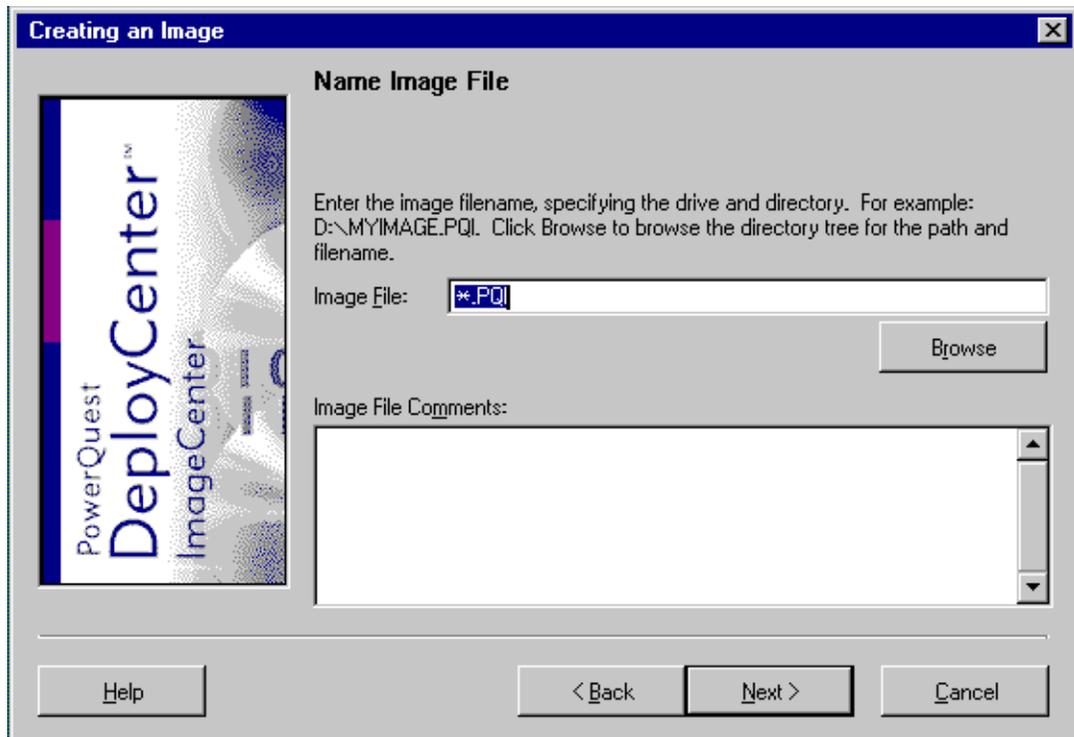
Using the Zodiak Menu panel application, repeat the procedure given in [Record IP Addresses on page 4](#) to check or change IP addresses in the Menu panel Eng Setup – System– Config menu and the Windows 2000 TCP/IP to the values necessary for your network.

Create Backup Image of Working System

After restoring your operating system and Zodiak Menu panel application, you can backup this working image onto the new backup partition using the Recovery CD as detailed below:

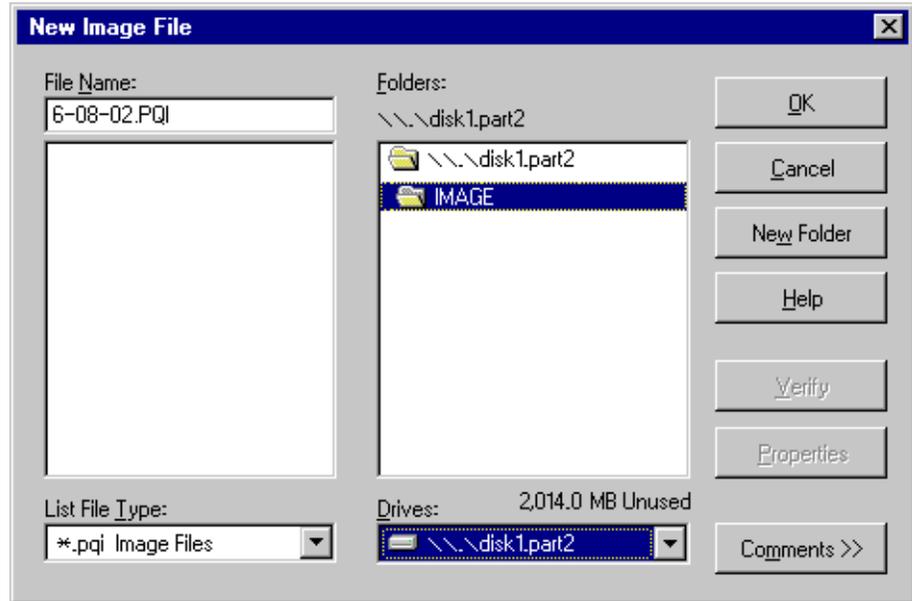
1. From the main ImageCenter screen, select **Create Image** ([Figure 3 on page 8](#)).
2. In the Select Source Partition screen ([Figure 7 on page 12](#)), check the box next the active partition labeled **NTFS**. This will normally be the first partition in the list. Do not select the box next to the **FAT** partition.
3. Click **Next**.
4. On the **Name Image File** screen ([Figure 9](#)), click **Browse** to locate the backup partition to save the image to.

Figure 9. Name Image File Screen



5. In the **New Image File** screen (Figure 10), click the down arrow on the **Drives** field.
6. Select \\._Disk1.part 2 (BACKUP). This is the Backup **FAT** partition that was created in the previous restore procedure where you will save your image.

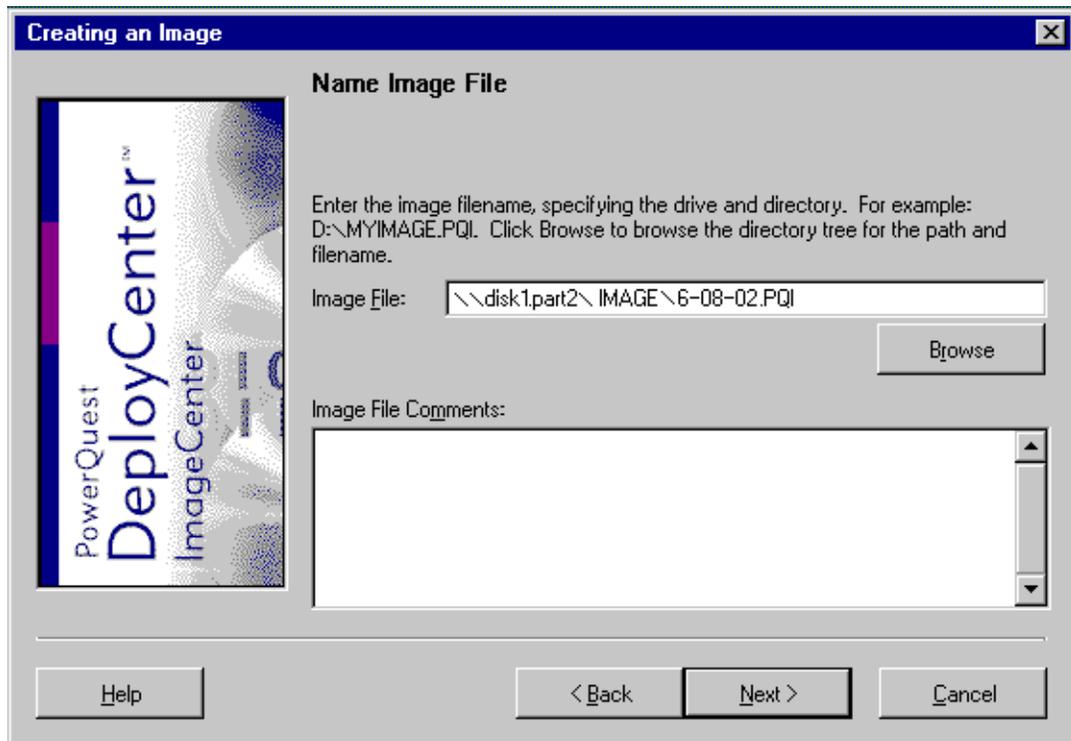
Figure 10. New Image File Screen



7. Double click on the **Image** folder in the right pane to store your image or you can create and name your own folder if desired by clicking the **New Folder** button.
8. In the **File** 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.
9. Click **OK**.

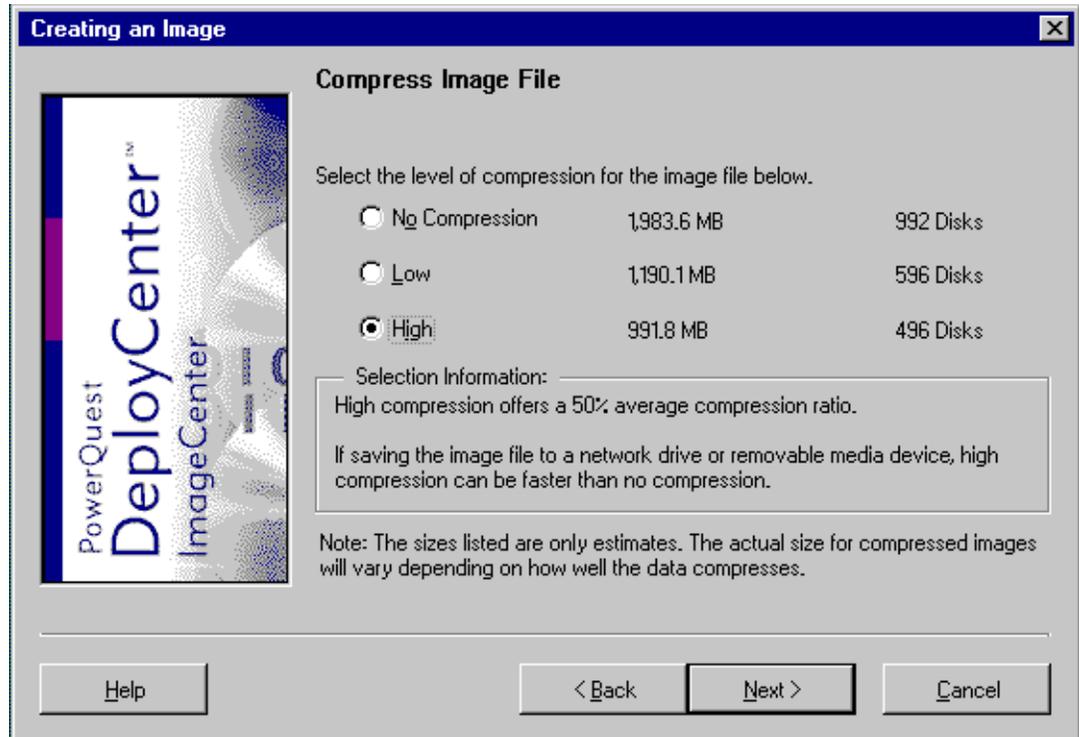
10. Verify the path and image file name are correct on the **Name Image File** screen (Figure 11).
11. You may also add comments about the file if desired by typing in the **Image File Comments:** text box.
12. Press **Next** to continue.

Figure 11. Name Image File Screen



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

Figure 12. Compress Image File Screen



14. This will bring up the **Ready to Create Image File** screen (not shown).
15. Check the information and click **Finish**. The process will take several minutes to save.
16. When finished, click **OK** and **Exit** from the main menu.
17. 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 image in place of the GVG default using the recovery procedure if there is a hard drive failure.

Reconfigure Menu Panel BIOS

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 7* and reconfigure the BIOS to boot sequence: **C, CDROM, A**.



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