Restoring the Hard Drive From CD

Posted April 23, 1999

Updated August 10, 1999

Updated 7/31/2002

NOTE: If you have 2 CDROMS in your backup set skip to the bottom of this document.

This procedure will completely write over any data on the hard drive. The CD ROM we supplied with the system has a file on it that is a compressed version of the entire hard drive exactly as it was shipped.

Please read the entire note before you attempt to do this procedure.

1. Backup files to zip media or floppy disks. This is very important. If this is not done, there will be no way to recover them later. If the files are not important, skip this step. It is not necessary to erase the files before proceeding.

2. Locate and insert the CD-ROM into the computer.

3. Reboot the computer and enter the CMOS configuration software. You will have to press **Delete**, **F1**, or **F2** to enter this software.

4. Scroll down to the **Advanced CMOS Setup** menu item. On the MTECH computers this is the **Boot** menu.

5. Scroll down to the item labeled **1st Boot Device**.

6. Use the **+/-** keys to change the setting from *Floppy* to *CDROM*.

7. Use the **Esc** key to get back to the main menu items after making the change. Scroll down to **Save and Exit**. Press **Enter** and allow the computer to reboot.

8. The computer should boot up in DOS with the **A:** prompt. The CDROM should be **R:**.

9. Change to **R:**.

10. Do a directory search by typing **dir**

11. **R:** will have a file labeled *********.IMG*.

12. Change to **R:\COMMON\EZRESTORE** by typing **cd common\ezrestore**.

13. Execute the restoration software by typing **pqer /img=R:*********.img**. Remember to put a space in between the *pqer*" and the */img=R*.

14. The software will load and pause asking whether to continue or not. The message will be **Warning: this will destroy all data on hard disk & restore the operating system(s) and applications originally pre-installed on your drive.** Select **continue** or **Yes**.

15. The restoration software will now copy the original contents of the hard disk from the CDROM onto the hard drive. This process should take about 10-15 minutes.

16. The software will go back to DOS after it is complete. Press **Ctrl**+**Alt**+**Del** to restart the computer. Press the **DEL** key to get back into the CMOS configuration.

17. Follow steps 3-7 to reset the **1st boot device** from *CDROM* back to *Floppy*.

18. Eject the CDROM disk from the computer and store it in a safe place. The computer should now start up as though it was new.

NOTE: There are two errors that we have seen regularly during the creation of backup CDs, errors #1511 and #1627. These are internal errors from the imaging software and are the result of our using Windows NT Service Pack 4. In Service Packs 4, 5 and 6 Microsoft has upgraded the file system from NTFS version 4 to NTFS version 5. The DriveImage software prior to version 2.2 did not correctly handle the new file system. As far as I can tell the errors do not affect the usablility of the backup and can be bypassed. At this time however, we have upgraded our backup software (DriveImage and EZRestore) to version 3.0 which is NTFS 5 aware and does not generate the above errors.

Thanks to: Jeff Honeyman (Original author), Sean Dorn (Father of our backup system), Sean Clayton (Tester and proofreader)

Revised for 2 CDs by Mike Newell 7/31/2002

Instructions for 2 CDROM HD Restore

Download 2 files by using the link below:

ftp://ftp.di.com/outgoing-unprot/mikem/2-CD-Restore-files.exe

19. Copy the files DESTROY.BAT and SCRIPT.TXT to a floppy disk.

20. Follow the above steps 1 through 11.

21. Edit the DESTROY.BAT file. Insert the filename of the image file (Step 11) into the line PQER /CMD=B:\SCRIPT.TXT /IMG=R:**FILENAME.IMG** /CEC   For example, if the filename is NS3A666.IMG you would edit the line so that it was
PQER /CMD=B:\SCRIPT.TXT /IMG=R:**NS3A666.IMG** /CEC   Save the edited file on the floppy.

22. at the command prompt type "B:DESTROY.BAT" and press ENTER.

23. The restore utility will start and you will be prompted when to use the 2nd CDROM