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# Read This First

Dear Tektronix Customer,

Thank you for your order and congratulations on the delivery of your new Tektronix oscilloscope.

If your instrument did not ship with an operating system restore DVD, use the following procedure to create a set of CD-ROMs that enable you to restore the operating system if the need arises.

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**NOTE.** *This procedure creates a set of restore CD-ROMs for the Microsoft Windows operating system. This document also contains procedures for restoring the operating system. After restoring the operating system, use the Product Software CD to reinstall the instrument application software. Follow the instructions supplied with the Product Software CD to reinstall the instrument application software.*

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Most instruments use .iso files for backup. A few instruments use .tib files for backup. Check the file type in the C:\backup\ directory. If the file Type is shown as Image Files, your instrument contains .ISO files. If the file Type is shown as Acronis True Image Backup Archive files, your instrument contains .TIB files. If your instrument contains .iso files, use the .ISO Files procedures. (See page 4, *Restoring the Instrument Operating System.*) If your instrument contains .tib files, use the .TIB Files procedures.



## Creating Operating System Restore Media

Use the following procedure to create restore media that you can use to restore the operating system on your instrument.

### Using .ISO Files

Use the following procedure if the instrument C:\backup\ directory contains .iso files.

**Prerequisite.** Blank CD-R discs (one for each backup file).

To create a set of restore CD-ROMs:

1. Insert a blank CD-R disc in the instrument DVD drive.
2. Click Start > All Programs > Nero 8 > Nero Express Essentials.
3. In the Welcome to Nero dialog box, click Remind Me Later.
4. Click Image, Project, Copy.
5. Click Disk Image or Saved Project.
6. Navigate to C:\backup.
7. Select file backup1 and click Open.
8. Click the Verify data on disk after burning check box to enable this function.
9. Click the Burn button. The application writes the backup file to the CD-R and then verifies that the data on the CD matches the source file.
10. When the application reports that the CD write process has completed successfully, remove the CD-R and label it accordingly (include backup file name, instrument name, instrument serial number, and date).
11. Repeat steps 1 through 9 for each of the remaining backup files in the directory.
12. Copy the disk image files (\*.iso) located in the C:\backup directory to a network location, a separate hard disk, or optical media for backup purposes.
13. Store the backup CDs as defined by your company policy.

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**NOTE.** *You can only use the restore discs on the instrument that created them.*

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**Using .TIB Files**

Use the following procedure if the instrument C:\backup\ directory contains .tib files.

**Create the Bootable Rescue Disk.** This procedure requires a blank CD-R disc.

1. Place an empty CD-R into the instrument CD/DVD drive.
2. On the desktop, double click on the Acronis true image icon.
3. Click Create Bootable Rescue Media on the left side of the screen.
4. At the Welcome to Media Builder screen, click Next.
5. Verify that Full and Safe versions are checked (they should be by default) and then click Next.
6. At the Select drive to be used to create bootable media window, select CD-RW Drive (D:).
7. Click Next and then click Proceed.
8. When the operation completes, click OK.
9. Close the control window.

**Make Restore Media.** This procedure requires 6 blank CDs or one DVD.

1. Label the 6 CDs or the DVD that you will use in this procedure.
2. If using a DVD recorder, place an empty DVD-R into a DVD recorder and using your DVD burning software, burn the C:\backup\\*.tib files to a DVD. Skip to step 10.
3. If using the instrument and CDs, burn each of the C:\backup\\*.tib files to a CD, beginning with step 4.
4. Click Start > All programs > Nero xx > Nero Express Essentials > Data > Nero Express Essentials.
5. Select Data CD and then click Add.
6. Browse to C:\backup\ and select the first .TIB file. Click Add and then click Close.
7. Click Next, and then click Burn.
8. Repeat this process with the remaining CDs and .TIB backup files.
9. Close the CD burning software.
10. Archive the discs in a safe location.

## Restoring the Instrument Operating System

You can restore the instrument operating system from either a file on the instrument hard disk drive or from the set of instrument restore CD-ROMs. The preferred restore method is to use the hard disk restore file.



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**CAUTION.** *Using the restore process reformats the hard drive and reinstalls the operating system. All saved data will be lost. If possible, save important files to external media before performing a system restore.*

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### Restoring the Operating System from the Instrument Hard Disk

The instrument contains an operating system restore file on a separate partition of the hard drive.

1. Restart the instrument. During the boot-up process you will see the following message at the top of the screen:  
Starting Acronis Loader... press F5 for Acronis Startup Recovery Manager
2. Repeatedly press the F5 key until the Acronis True Image Tool opens. There is a 15-second time period from when the message appears until the instrument proceeds with the normal instrument startup. If the instrument does not open the Acronis application, power off the instrument, then power on the instrument and try again.
3. Click Restore.
4. In the Confirmation dialog box, click Yes to restore the instrument operating system, or No to exit the restore process. The restore process takes approximately 30 minutes; the actual time depends on the instrument configuration.

### Restoring the Operating System Using Media Containing .ISO Files

You can only use the restore discs on the instrument that created them.

1. If the CD/DVD drive is not the first bootable device, you need to enable it as the first bootable device before performing a restore from the CD-ROMs.
2. Insert restore CD disc 1 into the instrument DVD drive.
3. Restart the instrument. The restore software opens automatically if the CD/DVD drive is the first bootable device.
4. Click Restore.
5. In the Confirmation dialog box, click Yes to restore the operating system and instrument application, or No to exit the restore process.

6. When prompted, remove the current restore CD and insert the next restore CD. Continue until the restore process is complete.
7. When the restore process is completed, remove the last restore CD and restart the instrument. The instrument will open into the operating system, settings, and appearance as shipped from the factory.

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**NOTE.** *This procedure will reformat the hard disk drive. Before doing the restore, back up any data you want to preserve.*

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**Restoring the Operating System Using Media Containing .TIB Files**

1. Make sure the bootable rescue CD that you made is in the CD/DVD drive, and then boot from the CD.
2. Scroll to Acronis True Image Full Version and press Enter.
3. Acronis True Image OEM Edition displays; click Recovery. Ignore any errors that are displayed.
4. Click Next.
5. Place the DVD with the \*.tib files or the last CD with the \*.tib file into the instrument CD/DVD drive.
6. Expand the + Next to the D: drive and select the first \*.TIB file.
7. Click Next.
8. Select Disk 1. All boxes should be checked.
9. Click Next.
10. Click No to resize partitions and then click Next.
11. Select Disk 1 and then click Next.
12. Click Yes to delete the partitions, and then click Next.
13. Click No I do not want to restore another partition, and then click Next.
14. Click Next, and then click Proceed.
15. If you are prompted for another CD, insert the first CD (and then the next CD), as prompted, and repeat steps 5 through 14 until the process is complete.
16. When the operation completes successfully, click OK and then click Operations > Exit. Remove the media.
17. Reinstall the instrument product software.