



Tech Info Library

Sys 7.1 CD: Clean Install Quadra/Centris 610, 650, 800 (7/96)

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TOPIC -----

A normal system software installation modifies and updates the existing System Folder. A clean installation disables the existing System Folder, leaving most files in place, and forcing the Installer to create a new System Folder.

A clean system installation brings the system software back to the standard configuration. This is necessary when system software has been damaged or modified, preventing a normal installation. It's also useful in troubleshooting.

DISCUSSION -----

Follow these instructions in the order presented.

Restart with Install Me First CD

- 1) Shut down your Macintosh computer.
- 2) Restart the computer while holding down the Command-Option-Shift-Delete keys.
- 3) When you see the blinking question mark, continue holding down the four keys, and insert the CD into the drive.

The computer should start from the CD, and then you should see the At Ease menu. If you don't see this menu, repeat these steps.

Run Disk First Aid

Disk First Aid software can detect and repair problems on a hard disk.

- 1) Click on the Disk First Aid button.
- 2) In the window that appears, be sure the startup hard disk is selected. If it isn't, click the Drive button to select the startup hard drive.

- 3) Click on Open and then on Start. Disk First Aid checks your hard disk for any potential problems. If it finds problems, you should let the software repair them.
- 4) Repeat this procedure for each hard disk attached to the system.
- 5) When you're finished verifying the hard disks, choose Quit from the File menu to return to the desktop.

If Disk First Aid can't repair a hard disk, you should back up the hard disk and reinitialize it using the appropriate formatting utility for that disk. For Apple drives, use Apple HD SC Setup.

Update Hard Disk Drivers

If you don't have an Apple hard disk or use third-party software to format your disk, don't use the Apple HD SC Setup Utility. However, you should contact your hard drive vendor to verify that your formatting software is compatible with system software version 7.1.

If you have an Apple hard drive, you should update the drivers with the version of Apple HD SC Setup that's on the Disk Tools disk, following these steps:

- 1) Double-click the HD SC Setup icon to launch it.
- 2) Click on the Update button.
- 3) When you're finished, click Quit to return to the Finder.

If HD SC Setup can't update the hard disk driver (indicated by a "dimmed" Update button), consider these possibilities:

- If a third-party utility formatted your hard disk, you should obtain the latest version of the utility to update your hard disk.
- If a version of Apple HD SC Setup more recent than the version on the Disk Tools disk formatted your hard disk, don't update the hard disk drivers.
- If a System 6 version of Apple HD SC Setup formatted the drive, it may not have left enough room for the updated driver. You don't have to update the hard disk drivers. However, if you intend to use file sharing or have a Macintosh that can use virtual memory, then you need to back up the disk and reinitialize it with HD SC Setup. This erases the disk, so be certain you back up the hard disk first.
- If the driver is corrupt, the Macintosh doesn't recognize the drive (that is, the drive doesn't show on the desktop). You may wish to reinitialize it with HD SC Setup. This erases the disk, so be certain you back up the hard disk first.
- If the driver has been modified with compression or security software

you will not be able to update the driver. Contact the vendor for additional help.

Check Available Hard Disk Space

Be sure you have at least 5MB available on the hard disk where you plan to install the system software. To check hard disk space, follow these steps:

- 1) Choose Control Panels from the Apple menu.
- 2) Double-click the Views control panel to open it.
- 3) In the Views control panel, check "Show disk info in header."
- 4) Open your hard disk's window.

The amount of available disk space appears in the upper-right corner of any open window.

If there's less than 5MB available, you'll need to delete some unnecessary files by moving them to the Trash. Choose Empty Trash from the Special menu, and you'll have more disk space available. Or you can copy files onto floppy disks or other media before moving them to the Trash.

Disable the System Folder

You disable the System Folder by moving the System and renaming the System Folder.

- 1) Open your hard disk's icon and locate the System Folder.
- 2) Open the System Folder and locate the System file.
- 3) Move the System file into the Preferences folder.
- 4) Close the System Folder's window and rename the System Folder "Storage."
- 5) Close all windows that are open on your desktop.

Install System 7.1

Install system software version 7.1 following these steps:

- 1) Double-click on the Install System Software icon located on the Install Me First CD.
- 2) When the "Welcome to the Apple Installer" message appears, click on OK.
- 3) Be sure the correct disk is selected for the installation procedure

(click on "Switch Disk" if necessary).

4) Click on Install.

The Installer determines the required software and reads it from the CD.

Verify Problem Resolution

After performing a clean installation, verify that you resolved the problem before adding anything to the new System Folder. Adding items to the System Folder before resolving your problem defeats the purpose of this procedure.

Install Non-Standard Items

You can now reinstall the non-standard items from the old System Folder (now named "Storage") such as fonts, screen savers, device drivers, and so on. If possible, you should reinstall these items from their original disks.

If the original disks aren't available, you may move the non-standard items from the Storage folder to the new System Folder. Be aware that reinstalling items from the old Storage folder into the new System Folder may reintroduce damaged or corrupted files. Be careful not to replace anything that's already in the new System Folder. Only move items that aren't already in the new System Folder.

- 1) Open each corresponding folder within the System Folder and the Storage folder and then compare the contents.
- 2) Move anything that isn't already in the new System Folder and its subfolders from the Storage folder and its subfolders to the new System Folder.
- 3) Restart your Macintosh.

Troubleshooting Extension Conflicts

If you've installed any system extensions or control panels, you'll probably see their icons line up across the bottom of the screen when you restart. They load into memory at startup time and modify the standard behavior of the operating system.

Verify INIT Conflict

If the Macintosh fails to restart or behaves erratically, you probably have an incompatible, or conflicting, INIT (also known as a system extension or control panel). To verify this problem, follow these steps:

- 1) Be sure the Caps Lock key is off.

- 2) Restart, and after you see the picture of a smiling Macintosh, hold down the Shift key.
- 3) Release the Shift key when the "Welcome to Macintosh, Extensions Off" message appears.
- 4) When the Macintosh is ready, try to recreate the erratic behavior.

If the problem no longer occurs, then you have a conflicting extension or control panel. Continue with the next section.

Remove and Replace INITs in System Folder

- 1) Create a new folder on the desktop and name it "INITs."
- 2) Open the System Folder, Extensions folder, and Control Panels folder, and choose by Kind from the View menu. Find all items of Kind "system extension" or "control panel" under the Kind heading in the windows of the open folders, and move them to the INITs folder.
- 3) Close the System Folder, and restart the Macintosh.
- 4) Attempt to recreate the problem.
- 5) Move one item from the INITs folder to the closed System Folder and restart the Macintosh.
- 6) Attempt to recreate the original problem.

Repeat steps 5 and 6 for each item in the INITs folder on the desktop until the problem recurs. The last item returned to the System Folder is probably the cause of the problem. Remove it from the System Folder (restart, holding down the Shift key again, if necessary), and contact the developer of the INIT for more information.

Final Steps

Verify that your applications are performing normally. If not, refer to the application manual or contact the vendor.

When the Macintosh behaves as expected, drag the Storage folder to the Trash, and choose Empty Trash from the Special menu.

Article Change History:

- 02 Jul 1994 - Removcd Fax Information
- 01 Nov 1994 - Modified process for disabling old system folder.
- 04 Aug 1994 - Verified against contents of the fax document.

Support Information Services

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