

**Boot Camp 2.0, Mac OS X 10.5: Frequently asked questions**

\* Last Modified on: October 24, 2007

\* Article: 306823

Find answers to common questions about Boot Camp. More detail on some of the topics discussed in the FAQ can be found at ([www.apple.com/support/bootcamp](http://www.apple.com/support/bootcamp)).

**Frequently asked questions: Installation and partitioning****What is Boot Camp?**

Boot Camp is software included with Mac OS X 10.5 Leopard that lets you run compatible versions of Microsoft Windows on an Intel-based Mac.

**I previously installed Boot Camp Beta. How do I upgrade to Boot Camp using Mac OS X Leopard?**

After you've upgraded your Intel-based Mac to Mac OS X 10.5 Leopard, start up the computer in Windows and insert your Mac OS X 10.5 Leopard DVD, then follow the onscreen instructions to upgrade your Windows drivers to Boot Camp 2.0.

**Why can't an upgraded version of Microsoft Windows XP or a full version of Microsoft Windows XP that does not include Service Pack 2 (SP2) or later be used for installation?**

Using an upgrade product, Windows requires you to validate your copy of Windows by inserting an original Windows CD, but there is no way to eject the first disc until after Windows installation is complete and the Boot Camp drivers from the Mac OS X 10.5 Leopard DVD are installed. Important: Boot Camp is designed to support only Microsoft Windows Home Edition and Professional with SP2 or later. The required Macintosh-specific drivers provided by Apple are only intended for these releases.

**During installation, the Microsoft Windows installer asks me to format the Windows partition using NTFS or FAT. Which should I use?**

If the partition is 32 GB or smaller, you can use either FAT or NTFS. If it's larger than 32 GB, then you can only format it using NTFS. Mac OS X can read and write FAT volumes, but only read NTFS volumes. Refer to the Microsoft Windows documentation if you are not sure which best suits your needs.

**I used the wrong Windows disc during installation and now it is stuck in the drive. How do I eject it?**

Restart the computer and hold the mouse button or trackpad button. The disc will eject.

**While installing Microsoft Windows, I see that my hard disk has several partitions. Which one should I install Microsoft Windows on?**

Use the partition labeled BOOTCAMP. Warning: Do not create or delete any partitions, or select any partition other than BOOTCAMP. Doing so may delete the contents of your Mac OS X startup volume. After installing Windows, the partition will be renamed Windows.

**I can't run "setup.exe" on the Mac OS X 10.5 DVD because this alert appears: "There is no default application specified to open the document 'setup.exe'."**

You can only run this program while using Microsoft Windows. To install the drivers, insert the Mac OS X 10.5 Leopard DVD immediately after successfully installing Microsoft Windows. The installer should start automatically. You only need to install these drivers once.

If you have AutoRun turned off, double-click the "setup.exe" file. If you are upgrading and previously had MediaFour MacDrive for Windows installed, Windows may not recognize the Leopard disc. See this MediaFour site for instructions.

**My Microsoft Windows volume appears on the desktop when I'm started up in Mac OS X, but I can't rename it or copy files to it.**

If the Windows volume was formatted using NTFS, Mac OS X can read it but not write files to it or rename it.

**Which application should I use to create the Windows partition?**

Use Boot Camp Assistant (in Mac OS X) to create a partition for Microsoft Windows without erasing your Mac OS X information. Boot Camp Assistant only works with an Intel-based Mac that has a single hard disk partition. Boot Camp Assistant creates a second partition on your existing startup disk for the Microsoft Windows operating system, or, if you have more than one internal hard drive installed, it will allow you to install Microsoft Windows on another drive. You can choose the size of the Windows partition when running Boot Camp Assistant, but it must be at least 5 GB and leave at least 5 GB of free space on the disk for the Mac OS X partition.

For example, if you have an 80 GB hard drive with 50 GB of space in use (30 GB free), your Microsoft Windows partition can be between 5 GB and 25 GB (30 minus 5) in size.

Note: Boot Camp Assistant does not erase your existing partition or existing Mac OS X installation when it creates a new partition for Microsoft Windows.

Important: Do not use third-party disk utilities to partition the drive before using Boot Camp Assistant--these may erase the disk.

**I have more than one hard drive, can I install Microsoft Windows on any drive?**

You can install only one Windows partition on any of your computer volumes. The Setup Assistant will allow you to partition drives, or to install Microsoft Windows on an entire drive if it does not contain Mac OS X. Note: You cannot install Microsoft Windows on an external hard drive.

**Frequently asked questions: Starting up**

**How do I choose the operating system that starts up (boots) my Mac?**

After running Boot Camp Assistant and installing Microsoft Windows and the Boot Camp Drivers, hold the Option (Alt) key when you start up to switch between Microsoft Windows and Mac OS X. Use the Startup Disk control panel in Windows or Mac OS X Startup Disk preferences to set the default operating system to use each time the computer starts up.

**My computer starts up to a black screen with white text that states "No Boot Disk Attached". What can I do?**

This means that the Windows partition is not bootable, usually because of a formatting problem. The Boot Camp Setup Assistant creates the Boot Camp partition, but the Windows installer must format it. Boot back into Mac OS X and re run the Boot Camp Setup Assistant. Remove the partition and re create it. Then install Windows again, this time allowing Windows to format the partition. Refer to the "Boot Camp Installation & Setup Guide" PDF document (link to product support page) for more detail on installing Boot Camp.

**In the Microsoft Windows Startup Disk control panel, external FireWire and USB startup disks are not recognized.**

External FireWire and USB disks will not be recognized by the Startup Disk control panel in Microsoft Windows. If you want to start from a bootable external disk, hold the Option (Alt) key as the computer starts up, then select the external disk.

**Frequently asked questions: Drivers, Macintosh features within Microsoft Windows, other****Which drivers are included on the Mac OS X 10.5 (Leopard) DVD?**

The Mac OS X 10.5 (Leopard) DVD contains the following Macintosh drivers for Windows:

- Apple Bluetooth
- Apple Keyboard Support
- Apple Remote Driver
- Apple Trackpad
- Atheros 802.11 Wireless
- ATI Graphics
- Boot Camp Control panel for Microsoft Windows
- Boot Camp System Task Notification item (System Tray)
- Broadcom Wireless
- Intel Chipset Software
- Intel Integrated Graphics
- iSight Camera
- Marvel Yukon Ethernet
- nVidia Graphics
- Realtek Audio
- SigmaTel Audio
- Startup Disk Control panel for Microsoft Windows

**I have purchased music and video from the iTunes Store. Do I have to authorize my computer in Mac OS X and in Microsoft Windows?**

Yes, you need to authorize one computer for Mac OS X and one computer for Microsoft Windows if you wish to play music or video in both operating systems, even though the operating systems are installed on the same computer.

**Why don't CDs and DVDs eject using the Eject key on my Apple keyboard when running Microsoft Windows?**

The Apple Keyboard Eject Key software may not be installed. Make sure you have installed the Macintosh Drivers from the Mac OS X 10.5 (Leopard) DVD as described above and in the "Boot Camp Installation & Setup Guide" PDF document.

**Why do there appear to be more display resolutions available in Microsoft Windows than in Mac OS X?**

Mac OS X displays only recommended resolutions.

**In the Microsoft Windows XP Startup Disk control panel, icons for removable discs such as CDs or DVDs appear even after they are ejected.**

In Microsoft Windows XP, removable disc icons remain in the Startup Disk control panel (installed by Boot Camp) even after they are ejected.

**My keyboard's numeric keypad does not work in Windows.**

Press the Num Lock key to enable the numeric keypad in Windows. If your keyboard doesn't have a key labelled Num Lock, try the Clear key.

**If my keyboard has no Insert key, how can I turn the Insert function on and off?**

Use the Help key if your keyboard doesn't have an Insert key.

**Where can I get support for Boot Camp 2.0 or the Macintosh drivers?**

Apple provides phone-based assistance for Boot Camp 2.0 only for 90 days after the purchase of an eligible Apple product. You can extend this period by purchasing an AppleCare Protection Plan. Boot Camp 2.0 is supported on computers running Mac OS X 10.5 Leopard only. Online support is available at <http://www.apple.com/support/bootcamp/>.

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Important: Apple does not provide technical phone support for installing, using, or recovering Microsoft Windows. Support is available for using Boot Camp Setup Assistant, as well as installing or restoring Boot Camp software while booted into Windows. Support articles and discussions may also be available on Apple's support website.

Keywords: ktech kmosx5 kbootcamp kintel