

System Utilities

The computer comes preloaded with the following software:

- ☐ Windows 95 (or Windows NT) operating system
- ☐ System utilities, drivers and application software

This chapter discusses the important system utilities bundled with your computer.



Note: To access most of the software applications, click on the Start button and select the application folder. Then click on the application icon to run the selected application.

To learn about the software and utility, make use of the online help provided by the software.

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5.1 Sleep Manager

Most notebook computers feature built-in power-saving functions. This computer has three power management modes: standby, hibernation, and light-green.

While standby puts your computer into a light sleep state, hibernation shuts off all power after saving the current state of your computer. The next time you press the power switch, the computer resumes from where you left off.

Sleep Manager allows your computer to perform this function.



Note: To understand how your computer saves and manages power, see section 2.2.

Sleep Manager is a utility that works with your computer's BIOS and Windows APM (Advanced Power Management) to manage the hibernation operation. This includes:

- ☐ creating the hibernation file which contains the current state of the computer
- ☐ checking if the hibernation file is valid
- ☐ saving and loading the contents of the hibernation file when entering to and resuming from hibernation

The hibernation file resides in a contiguous area on your hard disk.

Sleep Manager can automatically create, recover, and reallocate space for the hibernation file. If the system memory size was changed or the hibernation file on the hard disk was corrupted, Sleep Manager reallocates the hard disk space for you automatically.

5.1.1 Accessing the Sleep Manager

There are two ways to bring up the Sleep Manager.

On the Taskbar

The computer automatically loads Sleep Manager every time you start Windows 95. Sleep Manager resides in the background and the Sleep Manager status icon appears on the taskbar.



Double-click on the Sleep Manager status icon (🌿) if enabled to bring up the main Sleep Manager program.

The Sleep Manager icon may or may not appear on the taskbar. A checkbox in the Sleep Manager main screen determines whether to enable or disable the icon on the taskbar.

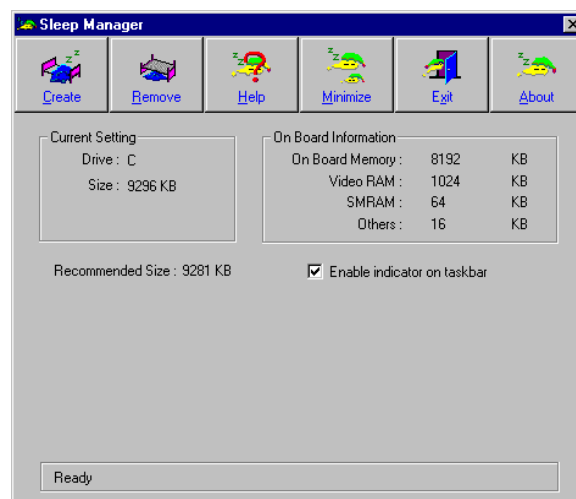
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This icon shows the current status of the hibernation feature. The icon changes to tell you if the feature is valid or not. Resting your cursor on the icon also shows the status.

Start menu

1. Click on the Start button.
2. Select Programs.
3. Select Sleep Manager.
4. Select the Sleep Manager program.

The Sleep Manager displays below:



Item	Description
Buttons	Click to access the Sleep Manager functions

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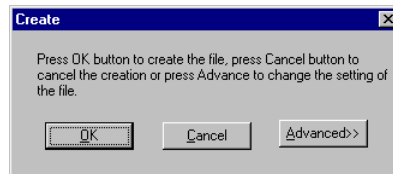
Item	Description
Current Setting	Displays the drive and size of the current reserved space created by Sleep Manager.
On Board Information	<p>Displays the different areas of system memory and their respective sizes. These system resources need to be stored before the computer can enter hibernation mode, so that the computer can resume successfully.</p> <p>These resources are the contents of:</p> <ul style="list-style-type: none">• Onboard memory (DRAM or dynamic memory)• Video RAM (VRAM or video memory)• SMRAM (static memory)• Others <p>The total size of these resources shows as the recommended size in the dialog box.</p>
Recommended Size	Displays the minimum size of the contiguous space you need for the hibernation feature. The actual size may be a little bit more due to file system alignment.
Enable Indicator on the Taskbar	<p>When this checkbox is checked, the Sleep Manager status appears on the taskbar.</p> <p>Double-click on the Sleep Manager status icon on the taskbar to bring up the main program, or simply rest your cursor on the icon to display the current status.</p>

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5.1.2 Sleep Manager Functions

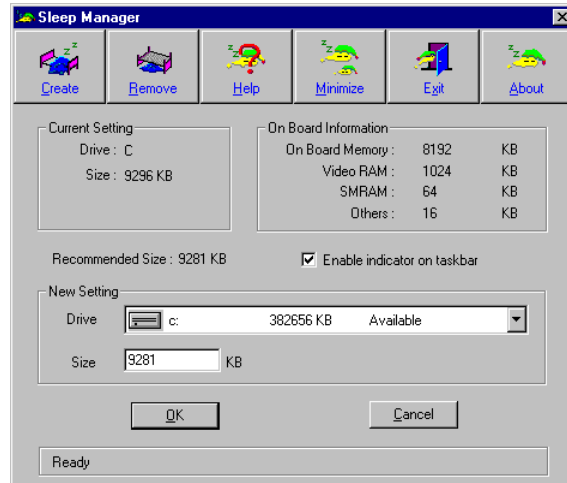
Create

Sleep Manager automatically finds a contiguous area on your hard disk and creates the hibernation file in this space. You can also perform this function by clicking on the Create button. When you click on the **Create** button, a dialog box pops up:



Select **OK** to automatically create the hibernation file. Sleep Manager displays the recommend size based on onboard system information. You can also choose **Advance>>>** to manually set the space settings and size. The advanced screen shows below.

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Sleep Manager automatically checks the system configuration and displays the recommended size. The drive where the space will be created is defined by the system and will be the first available logical drive which has the requested contiguous free disk space on it. The recommended size is the minimum size needed to save the current system status.

If the program cannot find the required space on the hard disk during the space creation process, it shows a message box to inform the user.

Not Enough Space for Allocation

This is an error message that may appear when Sleep Manager is creating the hibernation file. There are several different reasons that may cause this error.

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One reason is that the size of the free disk space on your hard disk is less than the required size. For example, if the onboard memory is 16MB and the video memory is 2MB, the total free disk space required will be around 18~19MB. If the total free disk space is less than this, the user has to free up space on his hard disk.

Another possible reason is that the hard disk has enough free space, but this free space exists as small fragments. The free disk space that Sleep Manager requires needs to be contiguous. To solve this problem, use tools such as Disk Defragmenter (Windows 95) to compact these free disk spaces. Then run Sleep Manager again to create the file.

One other factor that causes the error is when disk compression utilities are used. Sleep Manager can work with most compression software. However, Sleep Manager can only create the space on a host drive. A host drive stores original file information and cannot be compressed. The free space on the host drive is usually very small, so the compression software needs to be run again to enlarge the size of the host (uncompressed) drive for Sleep Manager.

Remove

If you want to use or take back the reserved space, click on the Remove button. This will disable the hibernation feature. Instead, the computer will only be able to enter standby mode.

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Minimize

Minimize Sleep Manager by selecting the Minimize button. If the Enable indicator on taskbar box is checked, Sleep Manager will switch to the background by locating itself on the taskbar. You can pop-up Sleep Manager again by double-clicking on this icon.

Exit

Exit Sleep Manager by selecting the Exit button. Sleep Manager will quit and disable the capability of auto-adjusting the reserved space size. Exiting Sleep Manager is NOT recommended.

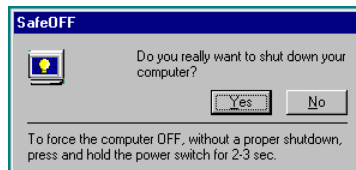


Important: Do not deactivate (remove or exit) or uninstall Sleep Manager. Do not remove or delete the hibernation file. Hibernation will not work without Sleep Manager and the hibernation file.

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5.2 SafeOff

SafeOFF provides protection from accidental power off. If you accidentally press the power switch, a dialog box pops up for confirmation.



- ☐ If you select **No**, the dialog closes and the system does not power off.
- ☐ If you select **Yes**, SafeOFF will request Windows 95 to shutdown the computer. Opened files can be saved and closed safely.
- ☐ If none of the alternatives is chosen, SafeOFF waits for 30 seconds and shuts down the computer.

5.3 Setup Utility

The Setup Utility is a hardware configuration program built into your computer's BIOS (Basic Input/Output System).

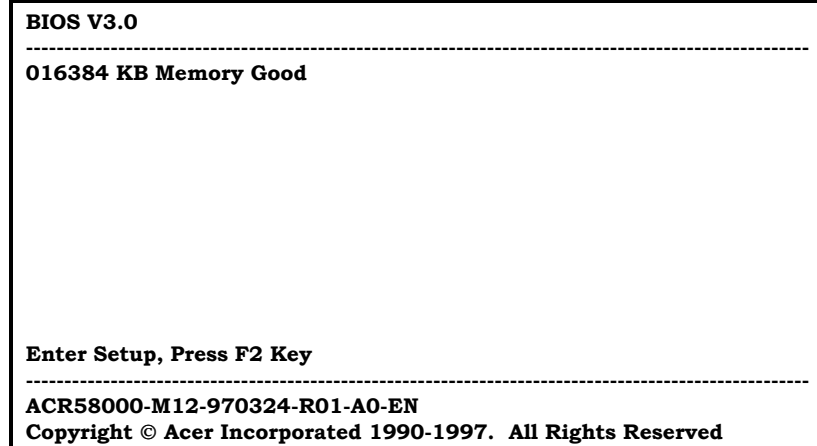
Your computer is already properly configured and optimized, and you do not need to run this utility. However, if you encounter configuration problems, you may need to run Setup. Please also refer to Chapter 6, Troubleshooting when a problem arises.

To activate the Setup Utility, press **F2** after you hear a beep while the Extensa logo is being displayed.

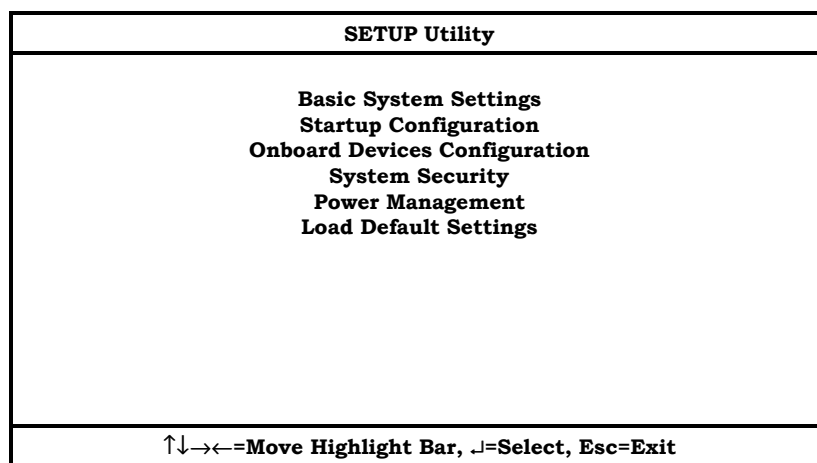


When Silent Boot (described later in this chapter) is disabled, a message displays telling you when you can press F2 to run the Setup Utility.

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Pressing **F2** brings up the main screen of the Setup Utility.



Press the cursor keys (↑↓→←) to move the highlight bar, then press **Enter** to make a menu selection.

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5.3.1 Basic System Settings

The Basic System Settings screen contains parameter items involving basic computer settings.

Basic System Settings				
Date	[Thu Jun. 11, 1998]			
Time	[10:00:00]			
Floppy Disk A	[1.44 MB 3.5-inch]			
Floppy Disk B	[None]			
		Cylinders	Heads	Sectors
Hard Disk	[Auto]	xxxx	xx	xx xxxx
Size(MB)				
↑↓=Move Highlight Bar, →←=Change Setting, Esc=Exit				

Press ↑ and ↓ to move the highlight bar; press → and ← to change the setting of the highlighted parameter. To exit this screen and return to the main screen, press **Esc**.

The following table describes the parameters in this screen. Settings in **boldface** are the default and suggested parameter settings.

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Parameter	Description	Setting or Format
Date	Sets the computer s system date	Day of the Week-Month-Day-Year
Time	Sets the computer s system time	Hour:Min:Sec
Floppy Disk A	Selects the floppy disk drive type.	1.44 MB 3.5-inch None
Floppy Disk B	Selects the floppy disk drive type. In most cases, you only have need for one floppy disk drive (A), so this is normally set to <i>None</i> .	None 1.44 MB 3.5-inch
Hard Disk	Selects the hard disk drive type. When set to <i>User</i> , you need to specify the Cylinder, Head and Sector information. For hassle-free and correct drive detection, this should be set to <i>Auto</i> .	Auto User None

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5.3.2 Startup Configuration

The Startup Configuration screen contains parameter items that are set up when the computer starts up.

Startup Configuration	
Boot Display	[Auto]
Memory Test	[Enabled]
Silent Boot	[Enabled]
System Boot Drive	[Drive A Then C]
Boot from CD-ROM	[Enabled]
CardBus Support	[Enabled]
USB Function Support	[Disabled]
↑↓=Move Highlight Bar, →←=Change Setting, Esc=Exit	

Press ↑ and ↓ to move the highlight bar; press → and ← to change the setting of the highlighted parameter. To exit this screen and return to the main screen, press **Esc**.

The following table describes the parameters in this screen. Settings in **boldface** are the default and suggested parameter settings.

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Parameter	Description	Setting
Boot Display	<p>Sets the display device (computer LCD and/or external monitor) to use when the computer starts (boots) up.</p> <p>When set to <i>Auto</i>, the computer outputs to the external monitor if one is connected; otherwise, the computer outputs to the LCD.</p>	Auto Both
Memory Test	Runs or skips the memory test.	Enabled Disabled
Silent Boot	Hides or displays the POST (Power-on Self-Test) screen messages.	Enabled Disabled
System Boot Drive	<p>Sets the startup (boot) sequence of the drives in your computer.</p> <p>For example, when set to <i>Drive A Then C</i>, the computer searches for a system (bootable) diskette in drive A first before proceeding with drive C.</p>	Drive A Then C Drive C Then A Drive C Drive A

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Parameter	Description	Setting
Boot from CD-ROM	Tells the computer to search for a bootable disc in the CD-ROM drive and boot from that disc. If the computer cannot find a bootable disc, it proceeds according to the System Boot Drive parameter setting.	Disabled Enabled
CardBus Support	Enables or disables CardBus support. For more information concerning CardBus, see section 3.7.	Enabled Disabled
USB Function Support	Selects support for USB (Universal Serial Bus). Enable this parameter if you are connecting USB device(s) to the computer.	Disabled Enabled

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5.3.3 Onboard Devices Configuration

The Onboard Devices Configuration screen contains parameter items that are related to port devices on your computer.

Onboard Devices Configuration	
Serial Port	[Enabled]
Base Address	[3F8h]
IRQ	[4]
Parallel Port	[Enabled]
Base Address	[378h]
IRQ	[7]
Operation Mode	[Bi-directional]
ECP DMA Channel	[-]
↑↓=Move Highlight Bar, →←=Change Setting, Esc=Exit	

Press ↑ and ↓ to move the highlight bar; press → and ← to change the setting of the highlighted parameter. To exit this screen and return to the main screen, press **Esc**.

The following table describes the parameters in this screen. Settings in **boldface** are the default and suggested parameter settings.

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Parameter	Description	Setting
Serial Port	Enables or disables the serial port	Enabled Disabled
Base Address	Sets the I/O base address of the serial port	3F8h 2F8h 3E8h 2E8h
IRQ	Sets the IRQ (interrupt request) channel of the serial port	4 11
Parallel Port	Enables or disables the parallel port	Enabled Disabled
Base Address	Sets the I/O base address of the parallel port	378h 278h 3BCh
IRQ	Sets the interrupt request (IRQ) channel of the parallel port	7 5
Operation Mode	Selects the operation mode of the parallel port. ECP (Extended Capabilities Port) supports a 16-byte FIFO (first in, first out) which can be accessed by host DMA cycles and PIO cycles, boosting I/O bandwidth to meet the demands of high-performance peripherals.	Bi-directional ECP Standard
ECP DMA Channel	Sets the DMA channel of the parallel port when the parallel operation mode is set to ECP.	1 3

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5.3.4 System Security

The System Security screen contains parameter items that help safeguard and protect your computer from unauthorized use.

System Security	
Disk Drive Control	
Diskette Drive -----	[Normal]
Hard Disk Drive -----	[Normal]
Setup Password -----	[None]
POST Password -----	[None]
↑↓=Move Highlight Bar, →←=Change Setting, Esc=Exit	

Press ↑ and ↓ to move the highlight bar; press → and ← to change the setting of the highlighted parameter. To exit this screen and return to the main screen, press **Esc**.

The following table describes the parameters in this screen. Settings in **boldface** are the default and suggested parameter settings.

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Parameter	Description	Setting
Diskette Drive (Control)	Sets the control level of the diskette drive.	Normal Disabled Write Protect All Sectors Write Protect Boot Sector
Hard Disk Drive (Control)	Sets the control level of the diskette drive.	Normal Disabled Write Protect All Sectors Write Protect Boot Sector
Setup Password ¹	Sets (and enables) the setup password. When set, this password protects this Setup Utility from unauthorized entry. Before the computer allows access to the Setup Utility, you need to enter the setup password.	None Enabled
Power On Password ¹	Sets (and enables) the power-on password. When set, this password protects the computer from unauthorized entry. At startup, you need to enter the power on password to continue computer operation.	None Enabled

¹ To set passwords, see section 1.9.2.

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5.3.5 Power Management Settings

The Power Management Settings screen contains parameter items related to power-saving and power management.

Power Management Settings	
Heuristic Power Management Mode ----	[Enabled]
Display Always On -----	[Disabled]
Hotkey Beep -----	[Enabled]
Modem Ring Resume On Indicator ----	[Enabled]
Battery-low Warning Beep -----	[Enabled]
Sleep Upon Battery-low -----	[Enabled]
↑↓=Move Highlight Bar, →←=Change Setting, Esc=Exit	

Press ↑ and ↓ to move the highlight bar; press → and ← to change the setting of the highlighted parameter. To exit this screen and return to the main screen, press **Esc**.

The following table describes the parameters in this screen. Settings in **boldface** are the default and suggested parameter settings.

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Parameter	Description	Setting or Format
Heuristic Power Management Mode	Enables or disables heuristic power management mode. For more information on power management modes, see section 2.2.1.	Enabled Disabled
Display Always On	When enabled the computer does not enter display standby mode. Note: Always enable this parameter when playing VCDs (Video Compact Disc). If not, the system will enter standby mode after 30 minutes and the screen will go blank.	Disabled Enabled
Hotkey Beep	When enabled the computer gives out a beep sound every time you use a hotkey. For more information on Hotkeys, see section 1.4.1.	Enabled Disabled
Modem Ring Resume On Indicator	When enabled, and an incoming modem ring is detected, the computer wakes up from standby mode. When the computer is off or in hibernation mode, the computer will not resume on a modem ring.	Enabled Disabled

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Parameter	Description	Setting or Format
Battery-low Warning Beep	Enables or disables warning beeps during a battery-low condition.	Enabled Disabled
Sleep Upon Battery-low	<p>Enables or disables the sleep function (hibernation or standby) during a battery-low condition.</p> <p>When the computer is running very low on battery power, the computer will disregard the system sleep state setting and enter hibernation mode if Sleep Manager is installed and the hibernation file is valid (see section 5.1).</p>	Enabled Disabled

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5.3.6 Load Default Settings

When you select the Load Default Settings item from the main screen, a dialog box appears asking you to confirm that you want to reset all settings to their factory defaults.

Load Setup Default Settings
Are you sure?

[Yes] [No]

Choose **Yes** to confirm or **No** to close the dialog box and return to the main screen.