

Power

User Guide

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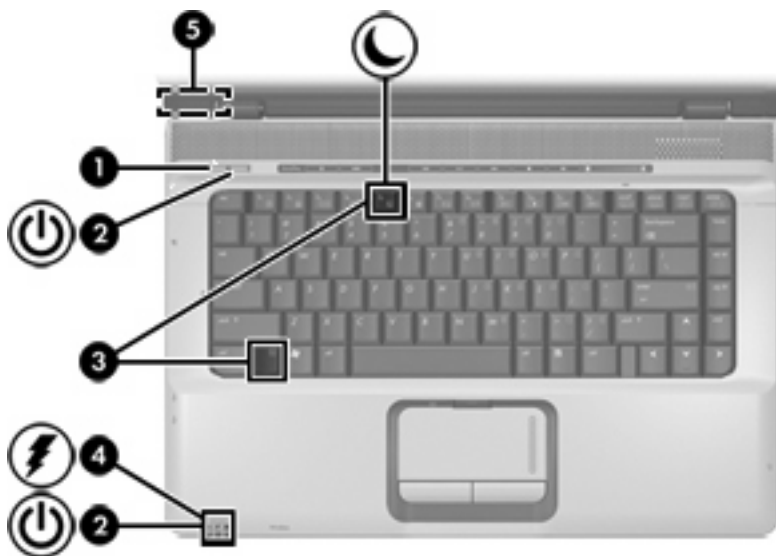
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1 Power control and light locations

The following illustration and table identify and describe the power control and light locations.



NOTE Your computer may look slightly different from the illustration in this section.



Component	Description
(1) Power button	<p>When the computer is</p> <ul style="list-style-type: none">• Off, press to turn on the computer.• On, press to enter hibernation.• In standby, briefly press to exit standby.• In hibernation, briefly press to exit hibernation. <p>If the computer has stopped responding and Microsoft® Windows® shutdown procedures cannot be used, press and hold the power button for at least 5 seconds to turn off the computer.</p>
(2) Power lights* (2)	<p>On: The computer is on.</p> <p>Blinking: The computer is in standby.</p> <p>Off: The computer is off or in hibernation.</p>
(3) fn+f5	Initiates standby.

	Component	Description
(4)	Battery light	<p>Amber: A battery is charging.</p> <p>Green: A battery is close to full charge capacity.</p> <p>Blinking amber: A battery that is the only available power source has reached a low-battery condition. When the battery reaches a <i>critical</i> low-battery condition, the battery light begins blinking rapidly.</p> <p>Off: If the computer is plugged into an external power source, the light is turned off when all batteries in the computer are fully charged. If the computer is not plugged into an external power source, the light stays off until the battery reaches a low-battery condition.</p>
(5)	Internal display switch	Turns off the display and initiates standby if the display is closed while the computer is on.


*The 2 power lights display the same information. The light on the power button is visible only when the computer is open. The light on the front of the computer is visible whether the computer is open or closed.

2 Power sources

The computer runs on internal or external AC power. The following table indicates the best power sources for common tasks.



NOTE Use only the provided AC adapter or one approved for use with this computer.

Task	Recommended power source
Work in most software programs.	<ul style="list-style-type: none">• Charged battery in the computer• External power supplied through one of the following devices:<ul style="list-style-type: none">• AC adapter included with the computer• Optional expansion product• Optional power adapter
Charge or calibrate a battery in the computer.	External power supplied through <ul style="list-style-type: none">• AC adapter included with the computer.• Optional expansion product.• Optional power adapter. <p> WARNING! Do not charge the computer battery while you are onboard aircraft.</p>
Install or modify system software or write to a CD or DVD.	External power supplied through <ul style="list-style-type: none">• AC adapter included with the computer.• Optional expansion product.• Optional power adapter.

Connecting the AC adapter



WARNING! To reduce the risk of electric shock or damage to the equipment:

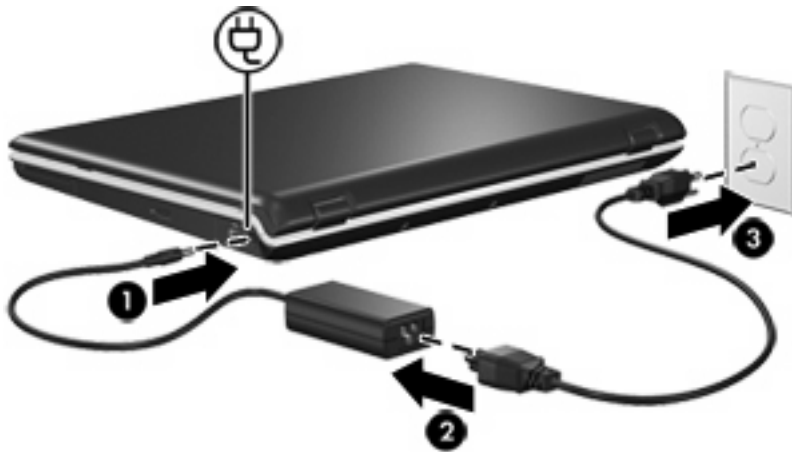
Plug the power cord into an AC outlet that is easily accessible at all times.

Disconnect power from the computer by unplugging the power cord from the AC outlet (not by unplugging the power cord from the computer).

If provided with a 3-pin attachment plug on the power cord, plug the cord into a grounded (earthed) 3-pin outlet. Do not disable the power cord grounding pin, for example, by attaching a 2-pin adapter. The grounding pin is an important safety feature.

To connect the computer to external AC power:

1. Plug the AC adapter into the power connector **(1)** on the computer.
2. Plug the power cord into the AC adapter **(2)**.
3. Plug the other end of the power cord into an AC outlet **(3)**.



3 Standby and hibernation

Standby and hibernation are energy-saving features that conserve power and reduce startup time. They can be initiated by you or by the system.

Standby



CAUTION To avoid a complete battery discharge, do not leave the computer in standby for extended periods. Connect the computer to an external power source.

Standby reduces power to system components that are not in use. When standby is initiated, your work is stored in random access memory (RAM), and then the screen is cleared. When the computer is in standby, the power lights blink. When you resume from standby, your work returns to the screen where you left off.



CAUTION To reduce the risk of information loss, save your work before initiating standby.

Hibernation



CAUTION If the configuration of the computer is changed during hibernation, resuming from hibernation may not be possible. When the computer is in hibernation:

Do not dock the computer to or undock the computer from an optional expansion product.

Do not add or remove memory modules.

Do not insert or remove any hard drives or optical drives.

Do not connect or disconnect external devices.

Do not insert or remove external media cards.

Hibernation saves your work to a hibernation file on the hard drive, and then shuts down the computer. The power lights are turned off. When you restore from hibernation, your work returns to the screen where you left off. If a power-on password has been set, the password must be entered to restore from hibernation.



CAUTION To reduce the risk of information loss, save your work before initiating hibernation.

You can disable hibernation. However, if hibernation is disabled and the system reaches a low-battery condition, the system will not automatically save your work while power is on or when standby has been initiated.

Use Power Options in Microsoft® Windows® Control Panel to reenable hibernation:

- ▲ Select **Start > Control Panel > Performance and Maintenance > Power Options > Hibernate** tab.

Be sure that the **Enable hibernation** check box is selected.

To set the time interval after which the system initiates hibernation:

1. Select **Start > Control Panel > Performance and Maintenance > Power Options**.
2. Click one of the intervals in the **System hibernates** list.

Initiating standby, hibernation or shutdown

The following sections explain when to initiate standby or hibernation and when to shut down the computer.



NOTE You cannot initiate any type of networking communications or perform any computer functions while the computer is in standby or hibernation.

When you leave your work

When standby is initiated, your work is stored in random access memory (RAM), and then the screen is cleared. When the computer is in standby, it uses less power than when it is on. Your work returns instantly to the screen when you resume from standby.

Initiating hibernation saves your work to a hibernation file on the hard drive, and then shuts down the computer. When the computer is in hibernation, it uses much less power than when it is in standby.

When the computer will be unused and disconnected from external power for an extended period, shut down the computer and remove the battery pack to extend the life of the battery pack.

When a reliable power supply is unavailable

Be sure that hibernation remains enabled, especially if you are operating the computer on battery power and do not have access to an external power supply. If the battery pack fails, hibernation saves your work to a hibernation file and shuts down the computer.

If you pause your work when the power supply is uncertain, you take one of the following actions:

- Save your work, and then initiate standby.
- Initiate hibernation.
- Shut down the computer.

When using wireless communication, or readable or writable media



CAUTION To prevent possible audio and video degradation, or loss of audio or video playback functionality, do not initiate standby or hibernation while reading or writing to a CD, a DVD, or an external media card. To prevent loss of information, do not initiate standby or hibernation while writing to a CD, a DVD, or an external media card.

Standby and hibernation interfere with the use of Bluetooth® and WLAN communication, and media. Note the following guidelines:

- If the computer is in standby or hibernation, you cannot initiate a Bluetooth or WLAN transmission.
- If standby or hibernation is accidentally initiated during playback of a medium such as a CD, a DVD, or an external media card
 - Your playback may be interrupted.
 - You may see the following warning message: "Putting the computer into hibernation or standby may stop the playback. Do you want to continue?" Click **No**.
 - You may need to restart the media to resume audio and video playback.

4 Power settings

This section explains standby, hibernation, and shutdown procedures.

Turning the computer or display on or off

Task	Procedure	Result
Turn on the computer.	Press the power button.	<ul style="list-style-type: none">• The power lights are turned on.• The operating system loads.
Shut down the computer.*	<ol style="list-style-type: none">1. Save your work and close all open applications.2. Shut down the computer through the operating system by selecting Start > Turn Off Computer > Turn Off.*	<ul style="list-style-type: none">• The power lights are turned off.• The operating system shuts down.• The computer is turned off.
Turn off the display while the power is on.	Close the computer.	Closing the computer activates the display switch, which initiates standby.

*If you have been registered to a network domain, the button you click will be called Shut Down instead of Turn Off Computer.

Using emergency shutdown procedures




CAUTION Emergency shutdown procedures result in the loss of unsaved information.

If the computer is unresponsive and you are unable to use normal Windows shutdown procedures, try the following emergency procedures in the sequence provided:

- Press **ctrl+alt+delete**. Then, select **Shut Down > Turn Off**.
- Press and hold the power button for at least 5 seconds.
- Disconnect the computer from external power and remove the battery pack. For more information about removing and storing a battery pack, refer to [“Batteries”](#).

Initiating or resuming from standby

Task	Procedure	Result
Initiate standby.	<ul style="list-style-type: none"> With the computer on, press fn+f5. Select Start > Turn Off Computer > Stand by.* <p>In Windows XP Professional, if Stand by is not displayed:</p> <ol style="list-style-type: none"> Click the down arrow. Select Stand by from the list. Click OK. 	<ul style="list-style-type: none"> The power lights blink. The screen clears.
Allow the system to initiate standby.	<p>No action required.</p> <ul style="list-style-type: none"> If the computer is running on battery power, the system initiates standby after 10 minutes of computer inactivity (default setting). If the computer is plugged into external power, the system initiates standby after 25 minutes of computer inactivity (default setting). <p> NOTE Power settings and timeouts can be changed using Power Options in Windows Control Panel.</p>	<ul style="list-style-type: none"> The power lights blink. The screen clears.
Resume from user-initiated or system-initiated standby.	Press the power button.	<ul style="list-style-type: none"> The power lights are turned on. Your work returns to the screen.

*If you have been registered to a network domain, the button you click will be called Shut Down instead of Turn Off Computer.


Initiating or restoring from hibernation

Hibernation cannot be initiated unless it is enabled. Hibernation is enabled by default.

To verify that hibernation remains enabled:

- ▲ Select **Start > Control Panel > Performance and Maintenance > Power Options > Hibernate** tab.

If hibernation is enabled, the **Enable hibernation** check box is selected.

Task	Procedure	Result
Initiate hibernation.	<ul style="list-style-type: none">● Press the power button. – or –● Select Start > Turn Off Computer.[*] Then, hold down the shift key as you select Hibernate. In Windows XP Professional, if hibernate is not displayed:<ol style="list-style-type: none">a. Click the down arrow.b. Select Hibernate from the list.c. Click OK.	<ul style="list-style-type: none">● The power lights are turned off.● The screen clears.
Allow the system to initiate hibernation (with hibernation enabled).	<p>No action required. If the computer is running on battery power, the system initiates hibernation</p> <ul style="list-style-type: none">● After 30 minutes of computer inactivity.● When the battery pack reaches a critical low-battery condition. <p> NOTE Power settings and timeouts can be changed using Power Options in Windows Control Panel.</p>	<ul style="list-style-type: none">● The power lights are turned off.● The screen clears.
Restore from user-initiated or system-initiated hibernation.	Press the power button. [†]	<ul style="list-style-type: none">● The power lights are turned on.● Your work returns to the screen.

^{*}If you have been registered to a network domain, the button you click will be called Shut Down instead of Turn Off Computer.

[†]If the system initiated hibernation because of a critical low-battery condition, connect external power or insert a charged battery pack before you press the power button. (The system may not respond if the discharged battery pack is the only power source.)

5 Power options

You can change many of the power settings using Windows Control Panel. For example, you can set an audio alert to warn you when the battery reaches a low-power condition, or you can change the factory settings for the power button.

When the computer is on:

- Pressing **fn+f5**, called the "sleep button" by the operating system, initiates standby.
- The display switch turns off the display and initiates standby. The display switch is activated by closing the display.

Accessing Power Options Properties

To access Power Options Properties:

- Right-click the **Power Meter** icon in the notification area, at the far right of the taskbar, and then click **Adjust Power Properties**.
– or –
- Select **Start > Control Panel > Performance and Maintenance > Power Options**.

Displaying the Power Meter icon

By default, the Power Meter icon appears in the notification area, at the far right of the taskbar. The icon changes shape to indicate whether the computer is running on battery or external power.

To remove the Power Meter icon from the notification area:

1. Right-click the **Power Meter** icon in the notification area, and then click **Adjust Power Properties**.
2. Click the **Advanced** tab.
3. Clear the **Always show icon on the taskbar** check box.
4. Click **Apply** and then click **OK**.

To show the Power Meter icon in the notification area:

1. Select **Start > Control Panel > Performance and Maintenance > Power Options**.
2. Click the **Advanced** tab.
3. Select the **Always show icon on the taskbar** check box.
4. Click **Apply**, and then click **OK**.



NOTE If you cannot see an icon you have placed in the notification area, at the far right of the taskbar, click the Show Hidden Icons icon (< or <<) in the notification area.

Setting or changing a power scheme

The **Power Schemes** tab in the **Power Options Properties** dialog box assigns power levels to system components. You can assign different schemes, depending on whether the computer is running on battery or external power.

You can also set a power scheme that initiates standby or turns off the display or hard drive after a time interval that you specify.

To set a power scheme:

1. Right-click the **Power Meter** icon in the notification area, and then click **Adjust Power Properties**.
2. Click the **Power Schemes** tab.
3. Select the power scheme you want to modify, and adjust options in the lists on the screen.
4. Click **Apply**.

Setting a security prompt

You can add a security feature that prompts you for a password when the computer is turned on, resumes from standby, or restores from hibernation.

To set a password prompt:

1. Right-click the **Power Meter** icon in the notification area, and then click **Adjust Power Properties**.
2. Click the **Advanced** tab.
3. Select the **Prompt for password when computer resumes from standby** check box.
4. Click **Apply**.

6 Processor performance controls



CAUTION To prevent overheating, do not obstruct vents. Use the computer only on a hard, flat surface. Do not allow another hard surface, such as a printer, or a soft surface, such as pillows, thick rugs, or clothing, to block the airflow. Overheating can damage the computer and reduce processor performance.



NOTE In some cases, a computer may operate at a higher speed on external power than on battery power. If the battery power is extremely low, the computer may attempt to conserve power by reducing processor speed and graphics performance.

Windows XP enables you to manage the processor performance controls by selecting a power scheme. The processing speed can be set for optimal performance or for optimal power conservation.

Processor performance controls are managed in the **Power Options Properties** dialog box.

To access Windows XP processor performance controls:

- ▲ Select **Start > Control Panel > Performance and Maintenance > Power Options**.

The power scheme you select determines how the processor performs when the computer is plugged into external power or is running on battery power. Each power scheme for external power or battery power sets a specific processor state.

After a power scheme has been set, no other intervention is required to control the performance of the computer processor. The following table describes the processor performance on external and battery power for the available power schemes.

Power scheme	Processor performance while on external power	Processor performance while on battery power
Home/Office Desk	Always runs at the highest performance state.	Performance state is determined based on CPU demand.
Portable/Laptop (default) *	Performance state is determined based on CPU demand.	Performance state is determined based on CPU demand.
Presentation	Performance state is determined based on CPU demand.	Performance state is determined based on CPU demand.
Always On	Always runs at the highest performance state.	Always runs at the highest performance state.
Minimal Power Management	Performance state is determined based on CPU demand.	Performance state is determined based on CPU demand.

Power scheme	Processor performance while on external power	Processor performance while on battery power
Max Battery	Performance state is determined based on CPU demand.	CPU performance is lower when the Max Battery setting is selected; however, battery life will be extended.

* It is recommended that you use the Portable/Laptop power scheme.

7 Batteries

When a charged battery is in the computer and the computer is not plugged into external power, the computer runs on battery power. When the computer is plugged into external AC power, the computer runs on AC power.

If the computer contains a charged battery and is running on external AC power supplied through the AC adapter, the computer switches to battery power if the AC adapter is disconnected from the computer.



NOTE The display brightness is automatically decreased to save battery life when you disconnect AC power.

You can keep a battery in the computer or remove and store it, depending on how you work. Keeping the battery in the computer whenever the computer is plugged into external AC power charges the battery and protects your work in case of a power outage. However, a battery in the computer slowly discharges when the computer is turned off and not plugged into external power.

Inserting or removing a battery



CAUTION To prevent loss of information when removing a battery that is the sole power source, initiate hibernation or turn off the computer before removing the battery.

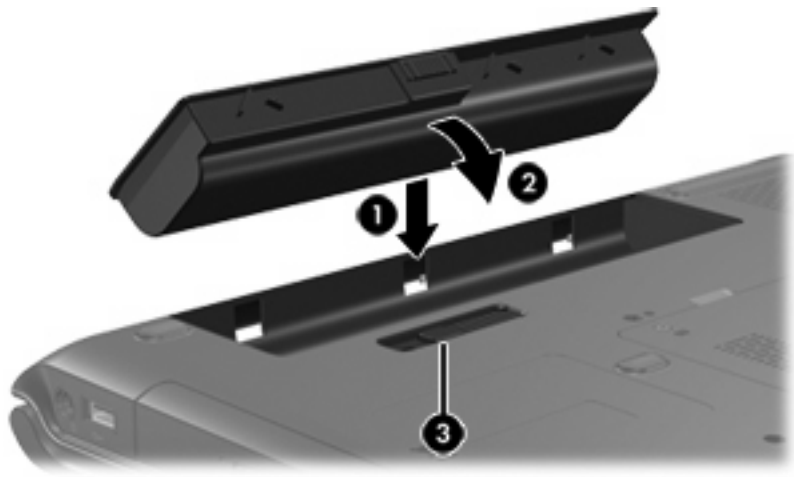


NOTE Batteries vary in appearance by model.

To insert a battery:

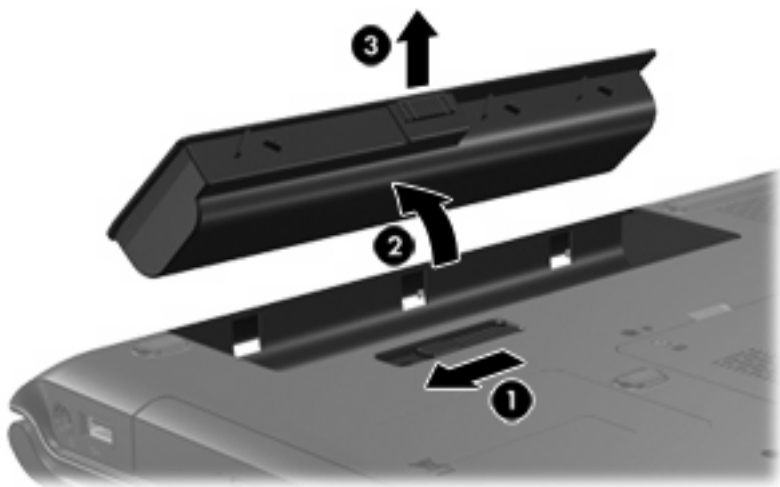
1. Turn the computer upside down on a flat surface, with the battery bay toward you.
2. Insert the battery into the battery bay (1) and rotate it downward until it is seated (2).

The battery release latch (3) automatically locks the battery into place.



To remove a battery:

1. Turn the computer upside down on a flat surface, with the battery bay toward you.
2. Slide the battery release latch (1) to release the battery.
3. Pivot the battery (2) away from the computer and remove it (3).



Charging a battery pack

To prolong battery life and optimize the accuracy of battery charge displays:



WARNING! Do not charge the computer battery while you are onboard aircraft.

- If you are charging a new battery pack:
 - Charge the battery pack while the computer is plugged into external power through the AC adapter.
 - When you charge the battery pack, charge it fully before turning on the computer.
- If you are charging an in-use battery pack:
 - Allow the battery pack to discharge to about 10 percent of a full charge through normal use before charging it.
 - When you charge the battery pack, charge it fully before turning on the computer.

A battery pack inserted in the computer charges whenever the computer is plugged into external power through an AC adapter, an optional expansion product, or an optional power adapter.

A battery pack inserted in the computer charges whether the computer is off or in use, but the battery pack charges faster while the computer is off. Charging may be delayed if a battery pack is new, has been unused for 2 weeks or more, or is much warmer or cooler than room temperature.

The battery light displays charge status:

- On: The battery pack is charging.
- Blinking: The battery pack has reached a low-battery condition and is not charging.
- Blinking rapidly: The battery pack has reached a critical low-battery condition and is not charging.
- Off: The battery pack is fully charged or not installed.

Monitoring the charge of the battery pack

This section explains several ways to determine the amount of charge in a battery pack.

Obtaining accurate charge information

To increase the accuracy of all battery charge indicators:

- Allow a battery pack to discharge to about 10 percent of a full charge through normal use before charging it.
- When you charge a battery pack, charge it fully before turning on the computer.
- If a battery pack has been unused for one month or more, calibrate the battery pack instead of simply charging it.

Displaying charge information on the screen

This section explains how to access and interpret battery charge indicators.

Viewing charge displays

To view information about the status of any battery pack in the computer:

- Double-click the **Power Meter** icon in the notification area, at the far right of the taskbar.
– or –
- Select **Start > Control Panel > Performance and Maintenance > Power Options > Power Meter** tab.

Interpreting charge indicators

Most charge indicators report battery status as both a percentage and as the number of minutes of charge remaining:

- The percentage indicates the approximate amount of charge remaining in the battery pack.
- The time indicates the approximate running time remaining on the battery pack *if the battery pack continues to provide power at the current level*. For example, the time remaining will decrease when you start playing a DVD and will increase when you stop playing a DVD.

When a battery pack is charging, a lightning bolt icon may be superimposed over the battery icon on the Power Meter screen.

Managing low-battery conditions

The information in this section describes the alerts and system responses set at the factory. Some low-battery condition alerts and system responses can be changed using Power Options in Windows Control Panel. Preferences set using Power Options do not affect lights.

Identifying low-battery conditions

This section explains how to identify low-battery and critical low-battery conditions.

Low-battery condition

When a battery pack that is the sole power source for the computer reaches a low-battery condition, the battery light blinks in an amber color.

Critical low-battery condition

If a low-battery condition is not resolved, the computer enters a critical low-battery condition, and the battery light blinks rapidly.

In a critical low-battery condition:

- If hibernation is enabled and the computer is on or in standby, the computer initiates hibernation.
- If hibernation is disabled and the computer is on or in standby, the computer remains briefly in standby, and then shuts down and loses any unsaved information.

To verify that hibernation is enabled:

1. Select **Start > Control Panel > Performance and Maintenance > Power Options > Hibernate** tab.
2. Be sure that the **Enable hibernation support** check box is selected.

Resolving low-battery conditions



CAUTION To reduce the risk of losing information when the computer reaches a critical low-battery condition and has initiated hibernation, do not restore power until the power lights are turned off.

When external power is available

To resolve a low-battery condition when external power is available, connect one of the following:

- AC adapter
- Optional expansion product
- Optional power adapter

When a charged battery pack is available

To resolve a low-battery condition when a charged battery pack is available:

1. Turn off the computer or initiate hibernation.
2. Insert a charged battery pack.
3. Turn on the computer.

When no power source is available

To resolve a low-battery condition when no power source is available:

- Initiate hibernation.
– or –
- Save your work and shut down the computer.

When the computer cannot restore from hibernation

To resolve a low-battery condition when the computer lacks the power to restore from hibernation:

1. Insert a charged battery pack or plug the computer into external power.
2. Restore from hibernation by pressing the power button.

Calibrating a battery pack

When to calibrate

Even if a battery pack is heavily used, it should not be necessary to calibrate it more than once a month. It is not necessary to calibrate a new battery pack. Calibrate a battery pack under the following conditions:

- When battery charge displays seem inaccurate
- When you observe a significant change in battery run time
- When the battery pack has been unused for one month or more

How to calibrate

Three steps are involved in calibrating a battery pack: fully charging, fully discharging, and then fully recharging.

Step 1: Charging the battery pack

A battery pack can charge whether the computer is off or in use, but it will charge faster when the computer is off.



WARNING! Do not charge the computer battery while you are onboard aircraft.

To charge the battery pack:

1. Insert the battery pack into the computer.
2. Connect the computer to an AC adapter, optional power adapter, or optional expansion product, and then plug the adapter or device into external power.

The battery light on the computer is turned on.

3. Leave the computer plugged into external power until the battery pack is fully charged.

The battery light on the computer is turned off.

Step 2: Discharging the battery pack

Before you begin a full discharge, disable hibernation.

To disable hibernation:

1. Select **Start > Control Panel > Performance and Maintenance > Power Options > Hibernate** tab.
2. Clear the **Enable hibernation** check box.
3. Click **Apply**.

The computer must remain on while the battery pack is being discharged. The battery pack can discharge whether or not you are using the computer but will discharge faster while the computer is in use.

- If you plan to leave the computer unattended during the discharge, save your information before beginning the discharge procedure.
- If you use the computer occasionally during the discharge procedure and have set energy-saving timeouts, expect the following performance from the system during the discharge process:
 - The monitor will not turn off automatically.
 - Hard drive speed will not decrease automatically when the computer is idle.
 - System-initiated hibernation will not occur.

To fully discharge a battery pack:

1. Right-click the **Power Meter** icon in the notification area, at the far right of the taskbar, and then click **Adjust Power Properties**.

– or –

Select **Start > Control Panel > Performance and Maintenance > Power Options**.
2. Record the 4 settings listed in the **Running on batteries** and **Plugged in** columns so that you can reset them after the calibration.
3. Set the 4 options to **Never**.
4. Click **OK**.
5. Unplug the computer from its external power source, but do *not* turn off the computer.
6. Run the computer on battery power until the battery pack is fully discharged. The battery light begins to blink in an amber color, when the battery pack has discharged to a low-battery condition. When the battery pack is fully discharged, the battery light is turned off and the computer shuts down.

Step 3: Recharging the battery pack

To recharge the battery pack:

1. Plug the computer into external power and maintain external power until the battery pack is fully recharged. When the battery pack is recharged, the battery light on the computer is turned off.

You can use the computer while the battery pack is recharging, but the battery pack will charge faster if the computer is off.
2. If the computer is off, turn it on when the battery pack is fully charged and the battery light is turned off.
3. Select **Start > Control Panel > Performance and Maintenance > Power Options**.
4. Reenter the settings that you recorded for the items in the **Plugged in** column and the **Running on batteries** column.
5. Click **OK**.



CAUTION After calibrating the battery pack, reenabling hibernation. Failure to reenabling hibernation may result in a complete battery discharge and potential information loss.

To reenabling hibernation, select **Start > Control Panel > Performance and Maintenance > Power Options > Hibernate** tab. Select the **Enable hibernation** check box, and then click **Apply**.

Conserving battery power

Using the battery conservation procedures and settings described in this section extends the time that a battery pack can run the computer from a single charge.

Conserving power as you work

To conserve power as you use the computer:

- Turn off wireless and local area network (LAN) connections and exit modem applications when you are not using them.
- Disconnect external devices that you are not using that are not plugged into an external power source.
- Stop, disable, or remove any external media cards that you are not using.
- Disable or remove an inserted digital card.
- Use the **fn+f8** and **fn+f7** hotkeys to adjust screen brightness as you need it.
- Use optional powered speakers instead of the internal speakers, or adjust system volume as you need it.
- Press **fn+f4** to switch the screen image from the computer display to an external display device.
- If you leave your work, initiate standby or hibernation, or shut down the computer.

Selecting power conservation settings

To set the computer to conserve power:

- Select a short wait for the screen saver, and select a screen saver with minimal graphics and motion.

To access screen saver settings:

Select **Start > Control Panel > Appearance and Themes > Choose a screen saver**.

- Select a Power Scheme with low power-use settings through the operating system. For more information, refer to "[Setting or changing a power scheme](#)".

Storing a battery pack



WARNING! To avoid potential safety issues, use only the battery pack provided with the computer, a replacement battery pack provided by HP, or a compatible battery pack purchased as an accessory from HP.



CAUTION To prevent damage to a battery pack, do not expose it to high temperatures for extended periods of time.

If a computer will be unused and unplugged from external power for more than 2 weeks, remove the battery pack and store it separately.

To prolong the charge of a stored battery pack, place it in a cool, dry place.

Calibrate a battery pack before using it if it has been stored for one month or more.

Disposing of a used battery pack



WARNING! To reduce the risk of fire or burns, do not disassemble, crush, or puncture a battery pack; short the external contacts on a battery pack; or dispose of a battery pack in fire or water. Do not expose a battery pack to temperatures above 60°C (140°F). Replace the battery pack only with a battery pack approved for this computer.

Refer to the *Regulatory, Safety, and Environmental Notices* for battery pack disposal information.

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