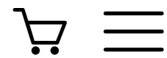




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## HP Notebook PCs - BIOS Setup Information and Menu Options

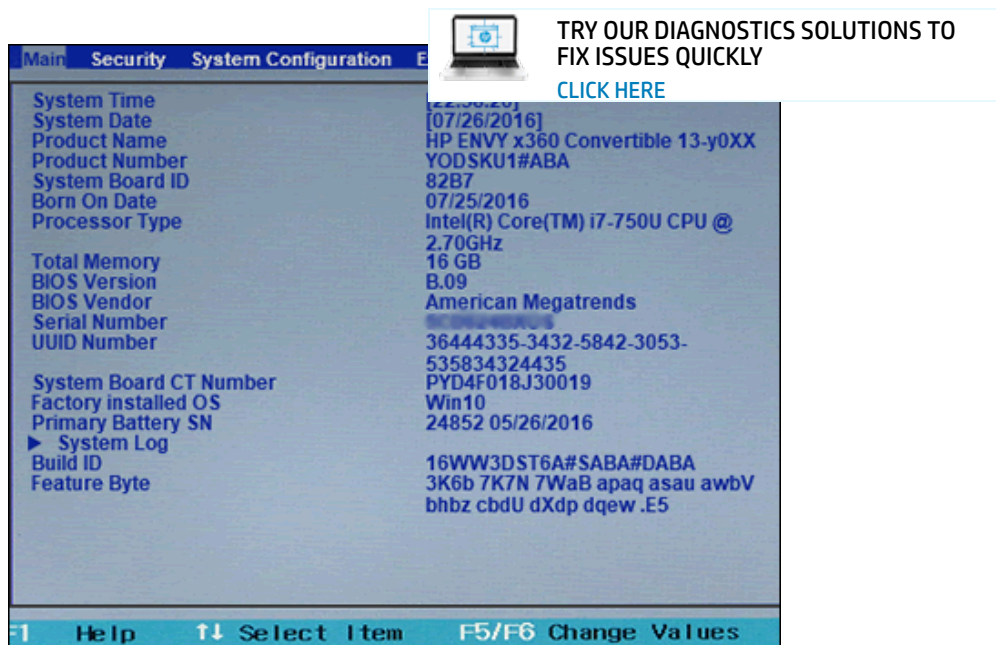
This document is for HP and Compaq notebook computers.

The BIOS (Basic Input Output System) controls communication between system devices such as the disk drive, display, and keyboard. It also stores configuration information for peripherals types, startup sequence, system and extended memory amounts, and more. Each BIOS version is customized based on the computer model hardware configuration and includes a built-in setup utility to access and change certain computer settings.

Read this guide to open and navigate general BIOS menus and settings. Specific menus and functions vary by notebook model.

**NOTE:** If you need to update the BIOS to resolve a specific issue, improve performance, or to support a new hardware component or Windows upgrade, go to [HP Notebook PCs - Updating the BIOS \(Basic Input Output System\)](#).





## ✕ Opening the BIOS Setup Utility

Methods to open the BIOS settings depend on the CPU, BIOS version, and notebook manufacture date. If the procedure fails and Windows launches, shut down the computer and perform the process again.


- Notebooks manufactured after mid-2011 : Turn off the computer, press the power button, and then repeatedly press the **Esc** key until the Startup Menu opens. Press **F10** to enter the BIOS Setup Utility.
- Notebooks manufactured between 2008 and mid-2011 : If a Compaq or HP splash screen displays after the computer starts, press **Escape** when prompted to enter the Startup Menu, and then press **F10** to enter the BIOS Setup Utility. Some models might support pressing **F10** immediately after powering on the notebook to enter the Startup Menu.
- Notebooks manufactured in 2007 and earlier : Turn off the computer, press the power button, and then repeatedly press the **F10** key. Normally, the Compaq or HP splash screen displays press **F10** to enter the BIOS just before the BIOS menu opens.

## ✕ BIOS Setup Utility menus and settings

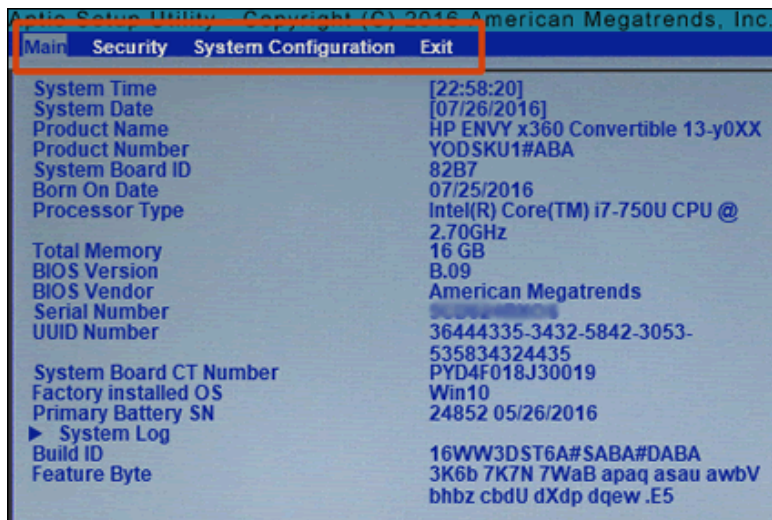
Use the top menu bar to access computer information, security settings, and system configuration options. Available settings vary by computer model.

Main	Security	System Configuration	Exit
------	----------	----------------------	------



Main	 <b>TRY OUR DIAGNOSTICS SOLUTIONS TO FIX ISSUES QUICKLY</b> <a href="#">CLICK HERE</a>	ation	Exit
Review BIOS-related system information and notebook specifications.	Set an admin password and restore default security settings.	Change computer boot and other advanced BIOS settings.	Save or discard any settings changes made.

**⚠ CAUTION:** Information stored by the BIOS Setup Utility is essential. Use caution when making changes in the BIOS. A mistake might cause the computer to not perform as expected.



- Main menu : Lists general BIOS-related system information, computer model and serial numbers, and a system log.
  - System Time
  - System Date
  - Product Name
  - Product Number
  - System Board ID
  - Born On Date
  - Processor Type
  - Total Memory
  - BIOS Version
  - BIOS Vendor
  - Serial Number
  - UUID Number
  - System Board CT Number
  - Factory Installed OS
  - Primary Battery SN
  - System Log
  - Build ID



- Feature Byte
- Security menu : Set an administrator password, change security settings to defaults, and restore security settings to factory defaults.
  - Administrator Password
  - Power-On Password
  - Intel Software Guard Extensions (SGX)
  - TPM Device
  - TPM State
  - Clear TPM
  - Restore Security settings to Factory Defaults
- System Configuration menu : Change computer and BIOS settings, including disabling the fn key, secure boot options, and enabling Virtualization Technology.
  - Language
  - Virtualization Technology
  - Fan Always On
  - Action Keys Mode
  - USB Charging
  - Battery Remaining Time
  - F5 LED
  - Audio DSP
  - Boot Options
    - Post Hotkey Delay (Sec)
    - USB Boot
    - Network Boot
    - Network Boot Protocol
    - Legacy Support
    - Secure Boot
    - Platform Key
    - Pending Action
    - Clear All Secure Boot Keys
    - UEFI Boot Order
      - OS Boot Manager
      - USB Diskette on Key/USB Hard Disk
      - USB CD/DVD ROM Drive
      - Network Adapter
    - Legacy Boot Order
      - OS Boot Manager
      - Notebook Hard Drive
      - USB Diskette on Key/USB Hard Disk
      - USB CD/DVD ROM Drive
      - USB Network Adapter
      - Network Adapter
- Exit menu : Select how to save configuration settings, or load default setup values.
  - Exit Saving Changes
  - Exit Discarding Changes
  - Load Setup Defaults



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) settings, and restore security



## Navigating BIOS Setup Utility menus

Identify the keyboard key used to navigate to and select menus and settings in the BIOS.



Key	 TRY OUR DIAGNOSTICS SOLUTIONS TO FIX ISSUES QUICKLY <a href="#">CLICK HERE</a>	
F10	Enter Setup at the red Compaq logo or blue HP logo	
F1	Setup Help	
Esc	Exit Setup	
Up or Down arrow key	Selects an item (Moves the cursor up or down)	
Left or Right arrow key	Selects a different menu screen (Moves the cursor left or right)	
F5 or F6	Changes the values of the selected item	
Enter	Select submenu	
F9	Load the Setup default values	
F10	Save changes and Exit	

## Reload default BIOS Setup settings

Use the BIOS Setup Utility to restore the factory installed BIOS settings.

1. In the BIOS Setup utility, select the Exit tab.



2. Select Load Setup Defaults.

3. Select Save Changes and Exit.

4. Press **Esc** and **Enter** to exit Setup.



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up Defaults).

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## Restore a forgotten or non-working BIOS power-on password

HP notebooks generate a code after entering an incorrect password three times. Contact [HP Customer Support](#) to unlock the computer with the generated code.

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## How to update the BIOS

If you need to update the BIOS to resolve a specific issue, improve performance, or to support a new hardware component or Windows upgrade, go to [HP Notebook PCs - Updating the BIOS \(Basic Input Output System\)](#). You can update the BIOS if Windows starts or does not start.

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## Resolving issues during a BIOS update

If an issue occurs when updating the BIOS, such as a system hang or an error message displays, an automatic BIOS recovery is attempted. The system will not be damaged if it can boot into Windows. If this occurs, download and install the latest BIOS update from [HP Software and Driver Downloads](#).

---

## During a BIOS update reboot a black screen displays and the automatic recovery fails

There are two methods to manually recover the BIOS:

- Use the backup file stored on the hard drive : Power on the computer, and then immediately press and hold the Windows key  and the **B** key at the same time until you hear 8 beeps. The BIOS Update utility opens to perform a BIOS recovery.
- Download the same or newer BIOS file : Go to [HP Notebook PCs - Recovering the BIOS](#), and then follow the instructions to create BIOS recovery USB key on another computer. Insert the USB key in the computer with the BIOS issue to start the recovery. If nothing happens after inserting the key, restart the computer, and then immediately press and hold the Windows key  and the **B** key at the same time to start the recovery.

---

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