SAMSUNG Solid State Drive
Installation Guide

SAMSUNG

Contents

Installation Instructions

This chapter provides the best practices and recommendations for safely installing the SSD in your computer. For details about removing the computer's cover and HDD, refer to your computer's user guide or inquire with the computer manufacturer.

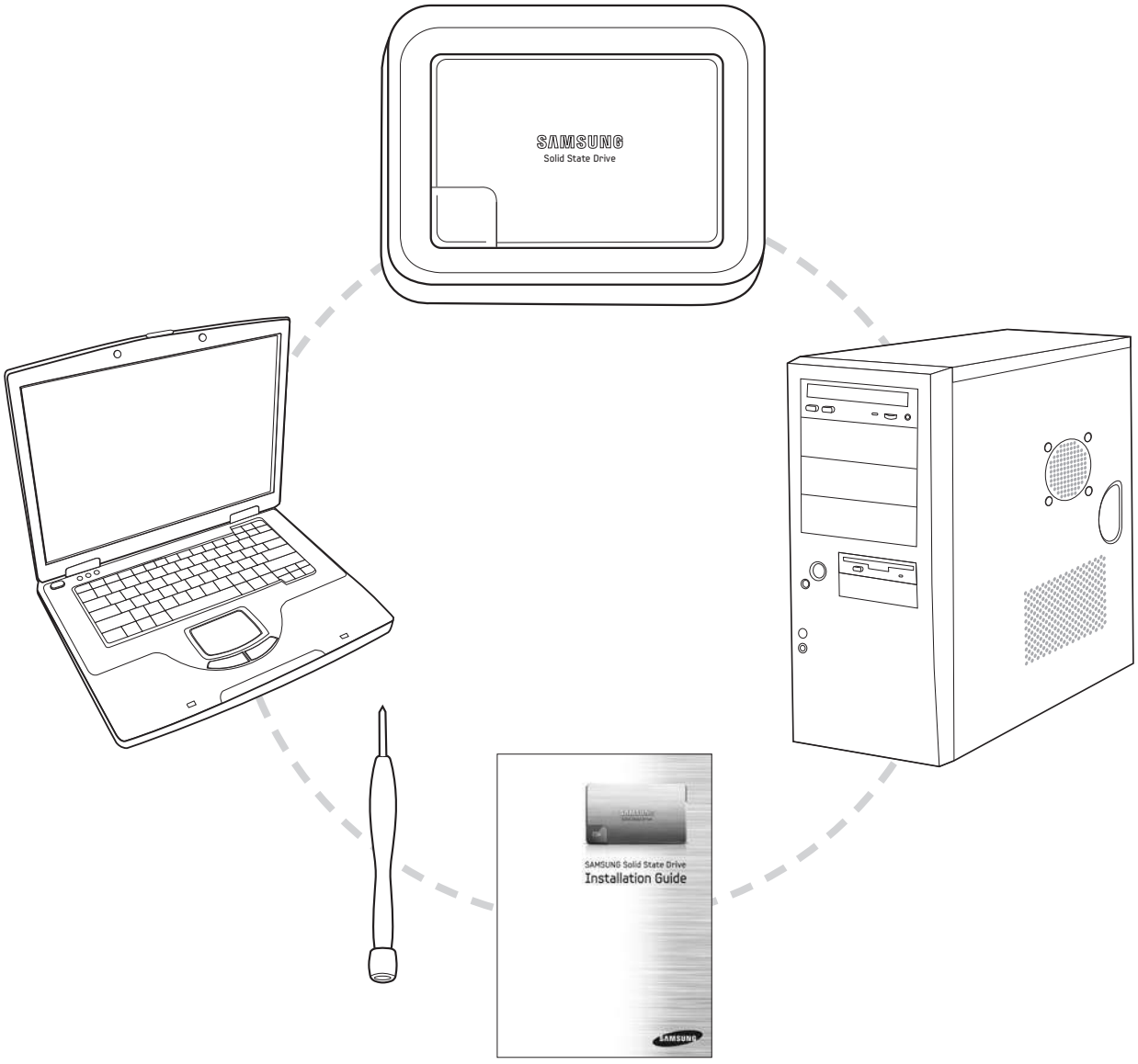
⚠ Caution

To reduce the risk of damage to the computer, damage to a drive, or loss of information, observe these precautions:

1. Back up all data from your computer to other storage media such as an external drive or online storage system.
2. Before handling a drive, discharge static electricity by touching the unpainted metal surface of the drive.
3. Shut down the computer. If you are unsure whether the computer is off, in the Suspend state, or in Hibernation, turn the computer on, and then shut it down through the operating system.
4. Disconnect all cables and all external hardware devices connected to the computer.
5. Disassembling the computer to install an SSD may violate the computer manufacturer's policy and void the warranty.

Things that you will need

- Your Desktop PC or Notebook PC
- Your new Samsung SSD
- Screwdriver
- SSD Installation Guide(Print Preferred)
- Your computer's user guide(Optional)

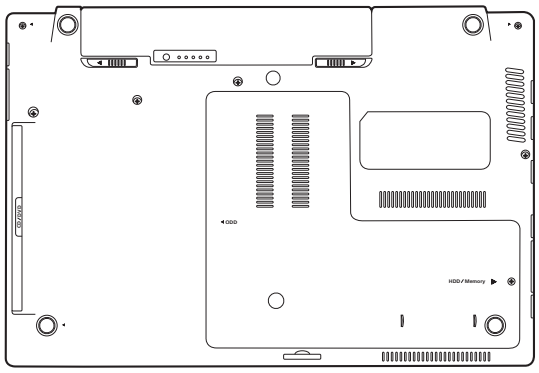


Notebook PC

Note: The illustrations in this chapter are just an example. Your computer may look slightly different from the illustrations in this chapter. For specific instructions about removing such as a battery, HDD etc., you have to consult your computer manufacturer.

To remove a current drive:

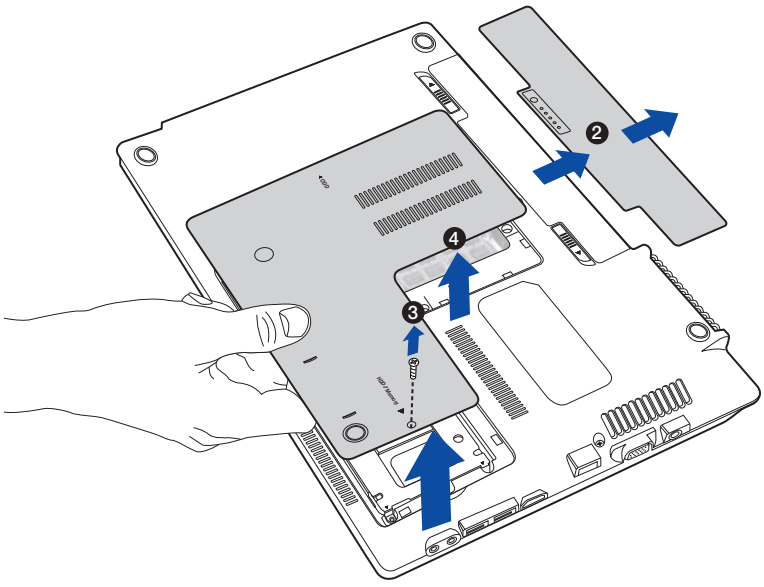
1. Turn the computer upside down on a clear, flat, stable work surface.



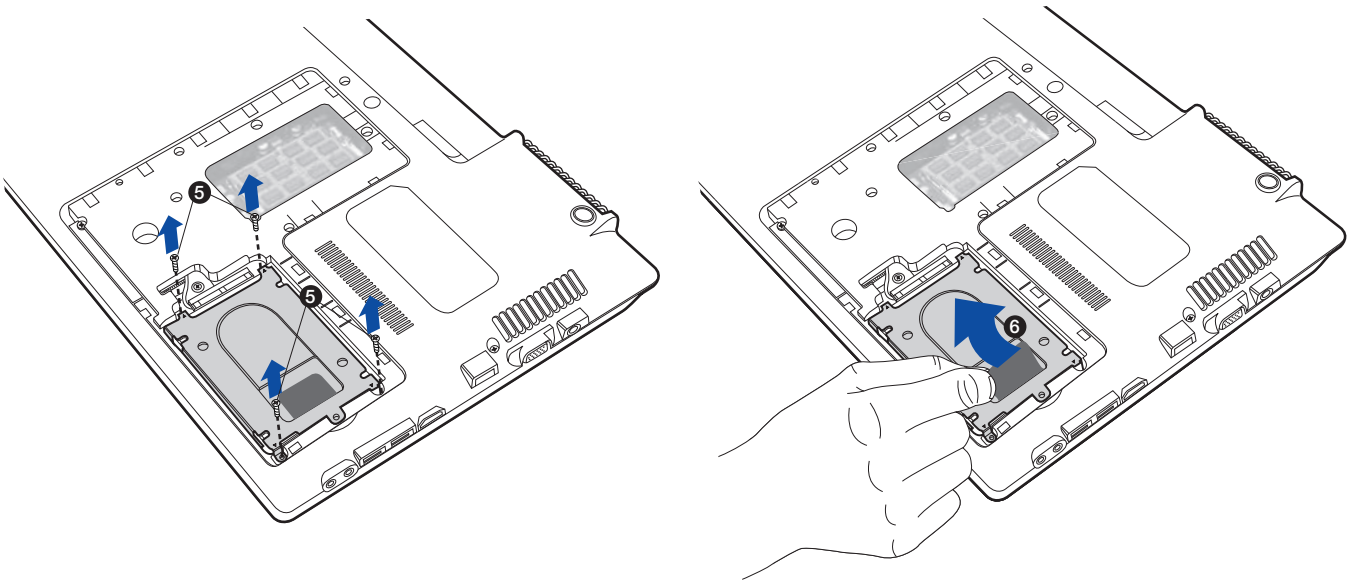
2. Remove the battery from the computer (Refer to your computer's user guide for instructions to remove the battery).

3. Find your current drive and remove the screws using a screwdriver on HDD cover from the computer. Store the screws in a container to reassemble.

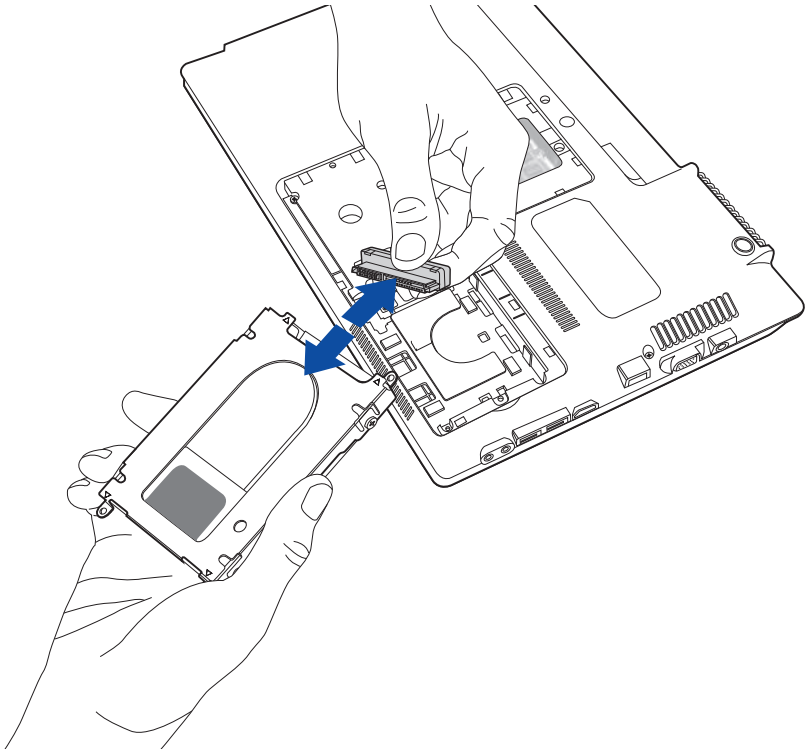
4. Slide the HDD cover away from the computer to expose the HDD.



5. Remove the HDD screws holding HDD in HDD bay (Refer to your computer's user guide for instructions to remove the HDD).
6. Pull the hard drive tab to the left to disconnect the HDD.
7. Lift the HDD out of the HDD bay.

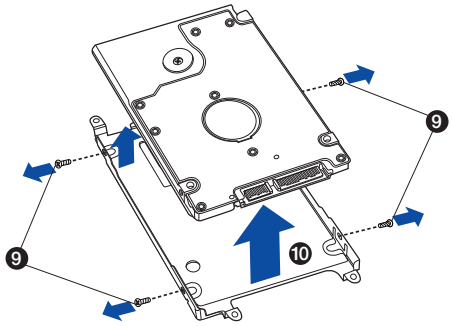


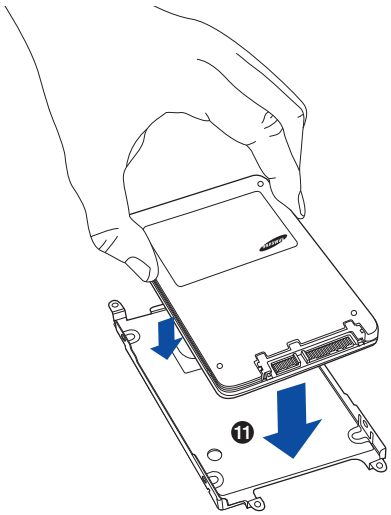
8. Disconnect all cables connected to the HDD.



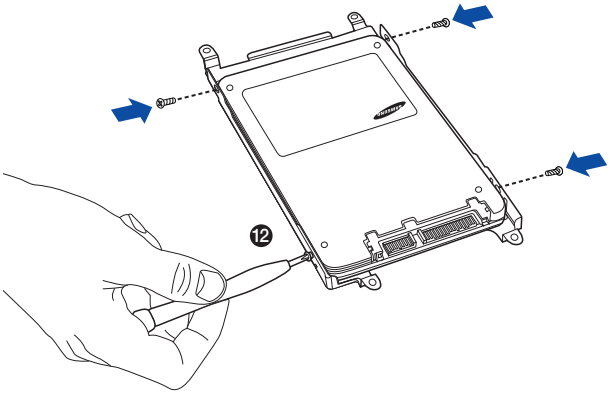
To install new SSD:

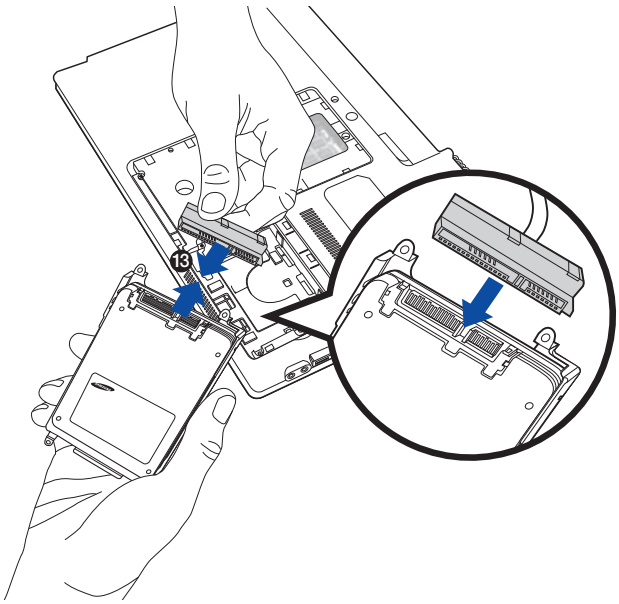
9. Detach the screws holding HDD in the spacer brackets or panels.
10. Detach the spacer brackets or panels from HDD.
11. Insert the SSD into the spacer brackets or panels.



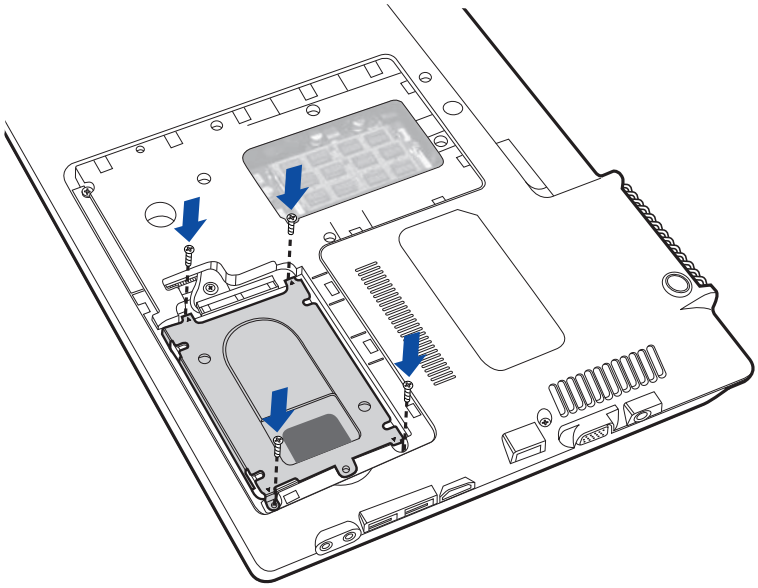


12. Secure the SSD in the spacer brackets or panels with specification screws (M3.0) or the screws from the HDD you are replacing.
13. Connect all cables to the SSD.

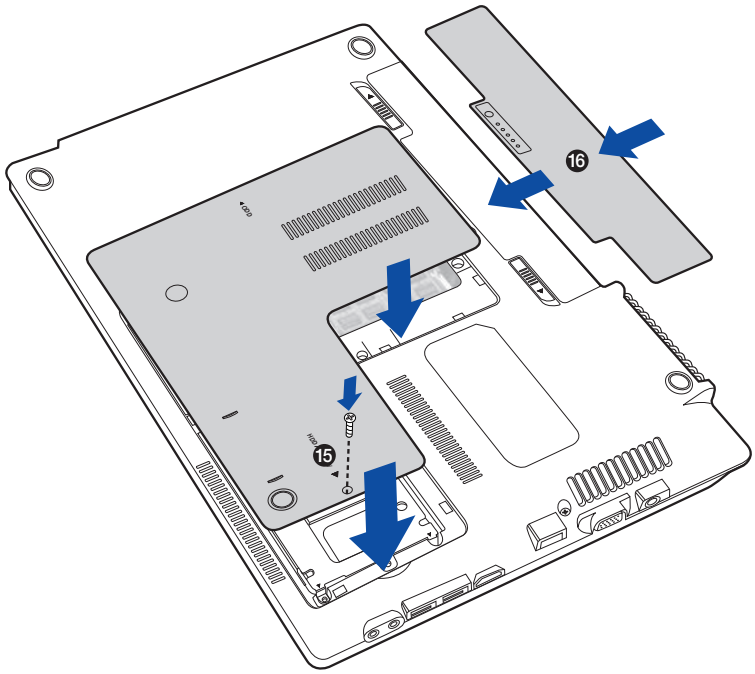




14. Secure the SSD in the HDD bay.



15. Replace the HDD cover and the screws on the bottom of the computer.
16. Insert the battery in to the battery bay until it clicks into place.

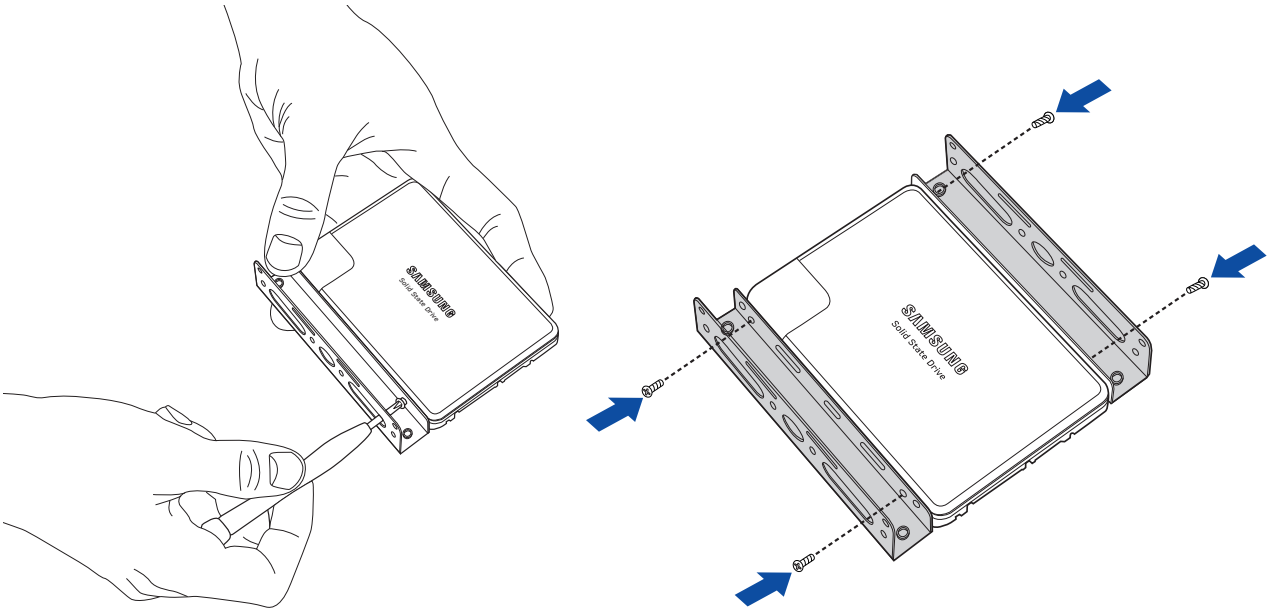


Desktop PC

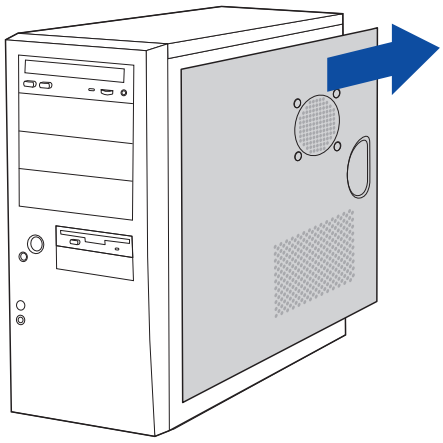
WARNING

The edges of metal panels can cut skin. Be careful not to slide skin along any interior metal edge of the computer.

1. Attach the 3.5” brackets(purchased separately) to the SSD and secure it in place using 4 screws.

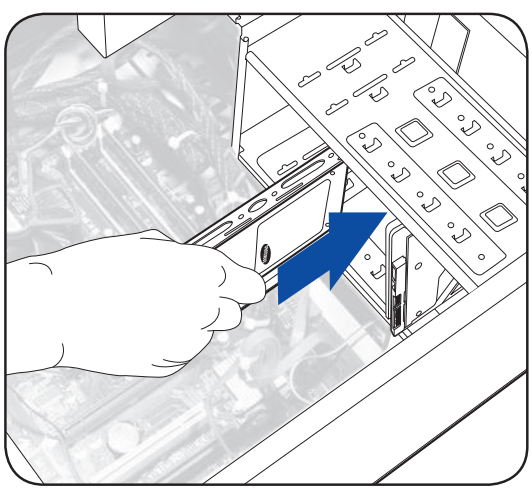


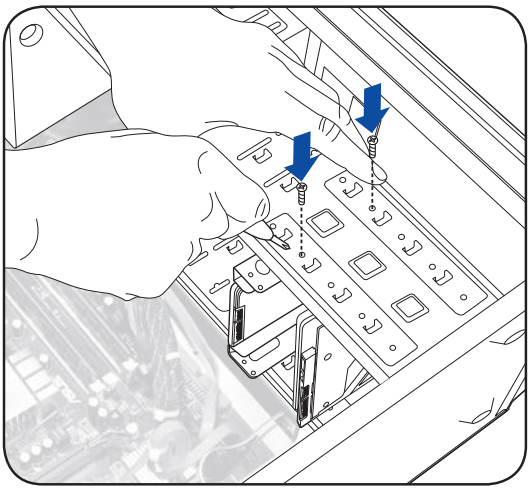
2. Remove the side cover from computer.



Add new SSD:

3. Slide the new SSD into the drive bay, and tighten the 4 screws that secure the drive in the bay.





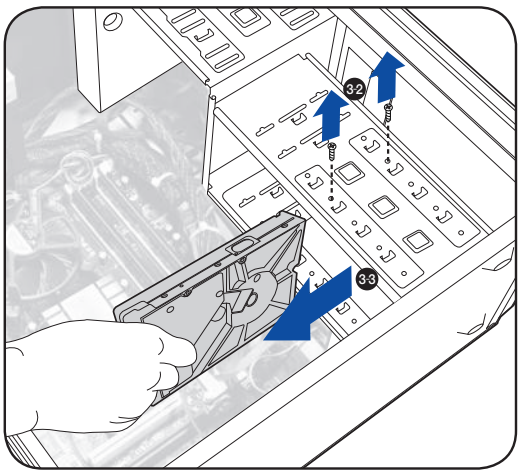
Replace HDD with new SSD:

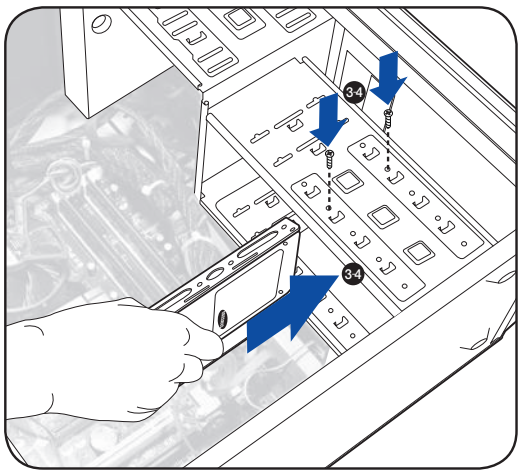
3-1. Disconnect all cables connected to the HDD.

3-2. Remove the screws holding HDD in drive bay.

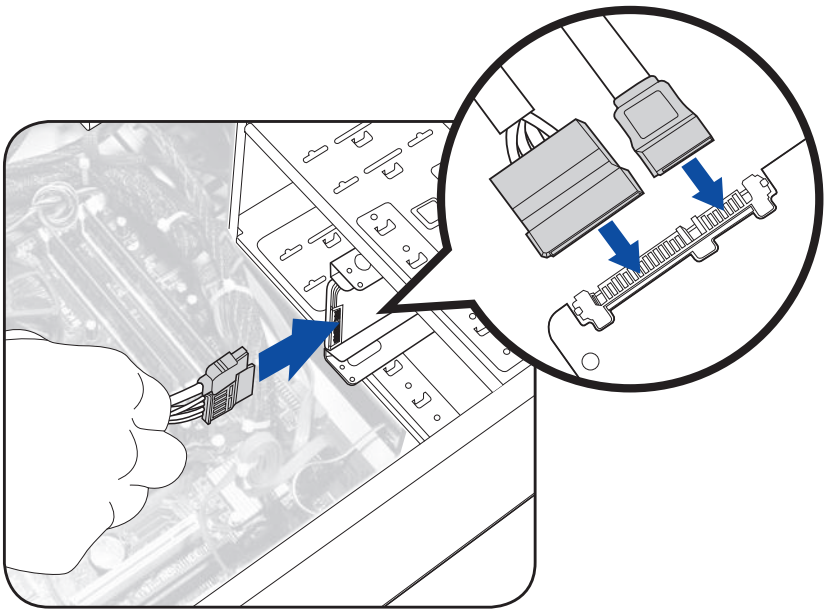
3-3. Detach the HDD from your computer.

3-4. Slide the SSD into the drive bay, and tighten the 4 screws that secure the drive in the bay.

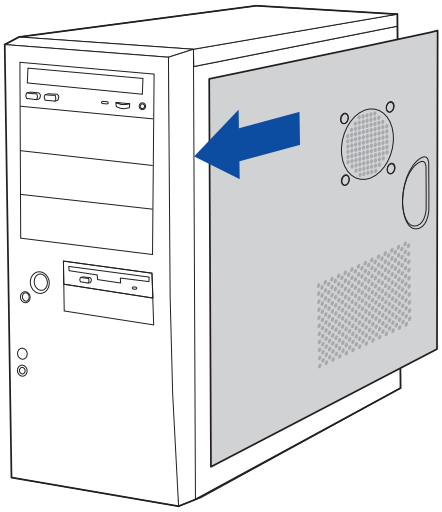




4. Connect the SATA interface cable and the power cable to the back of the SSD by pressing each plug onto the connector.



5. Replace the side cover.



Configuring BIOS

Close the computer case and restart your system. Your computer should automatically recognize the newly-installed SSD. If not, use the following instructions to detect the new SSD drive:

1. Restart the computer again.
2. While the system is initializing, run the system setup program (BIOS or CMOS), which can be activated by pressing a special key such as ESC, F2, F10 or DELETE. Check your computer's user guide for the correct key(s).
3. After running system setup program, select the default settings from Main menu. Most of computers with Auto detection function should detect automatically the SSD. If not, specify the SSD from User Define Mode to detect it.
4. If system and OS support SATA 3Gbps interface, please be sure to set AHCI mode to enable in Advanced Option (If you do not set AHCI mode to enable, IDE mode can be selected by default and it may affect optimal performance). If you can't install in AHCI mode on some computers, please contact the computer manufacturers.
5. Save the settings, and exit system setup program.
6. Restart the computer. When the computer restarts, it should now detect the new drive.
7. It is recommended to reinstall OS for the optimal environment of using SSD.

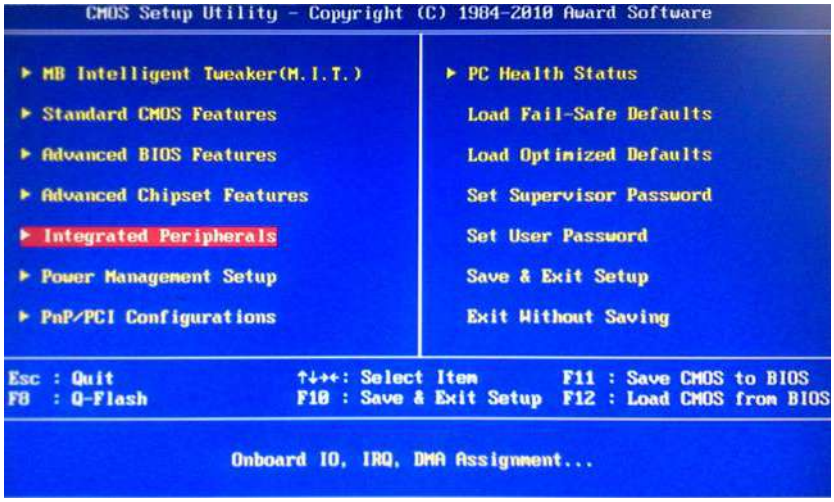
Note1) If you operate the SSD using SATA 3Gbps interface in IDE mode, it can cause the performance degradation. IDE (or Parallel ATA) mode supports theoretically up to 133MB / s (at UDMA6 transmission mode) and SATA2 supports theoretically up to 300MB/s.

Note 2) AHCI driver is automatically installed in Windows 7 OS, but you must install it during OS installation process in the sub version of the Windows OS (Windows XP, etc.). For more information, contact your computer manufacturer or refer to OS installation manual.

Note 3) This product may not work correctly in the previous version of Mac OS Leopard.

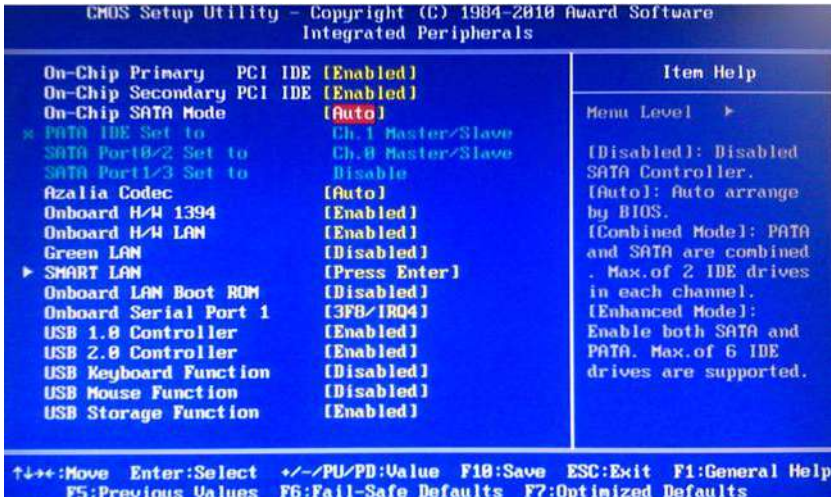
Award Software Settings

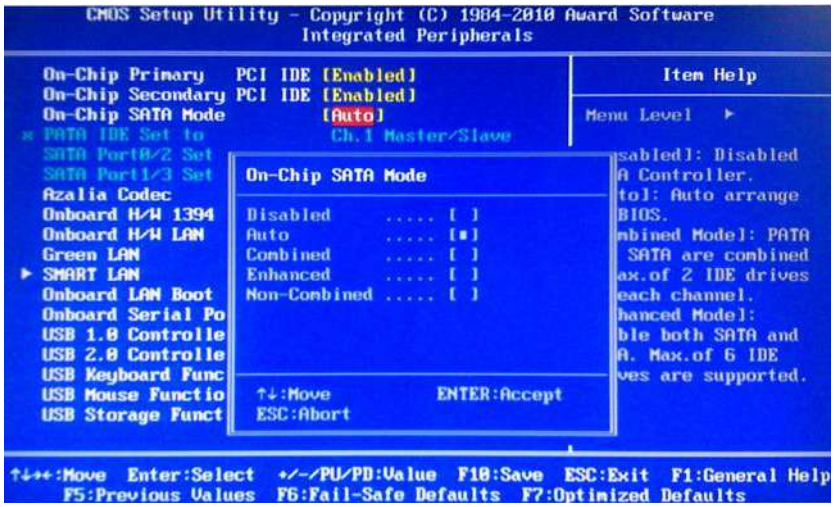
[Figure 1]
Main Display for CMOS Setup



Select [Integrated Peripherals]

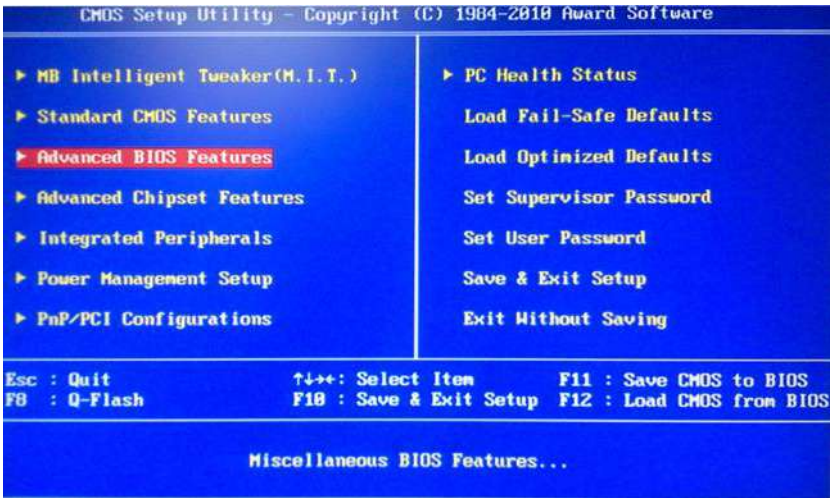
[Figure 2-3]
SATA Mode Setup





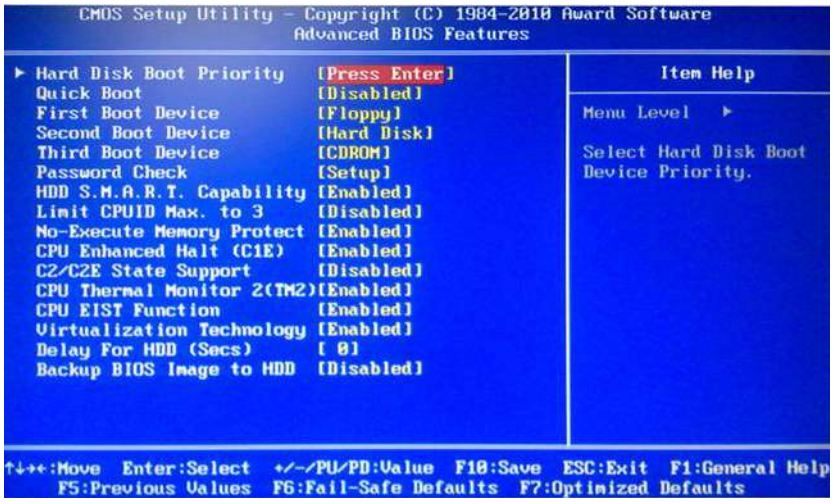
Select “On-Chip SATA Mode [Auto]

[Figure 4]
To verify the SSD



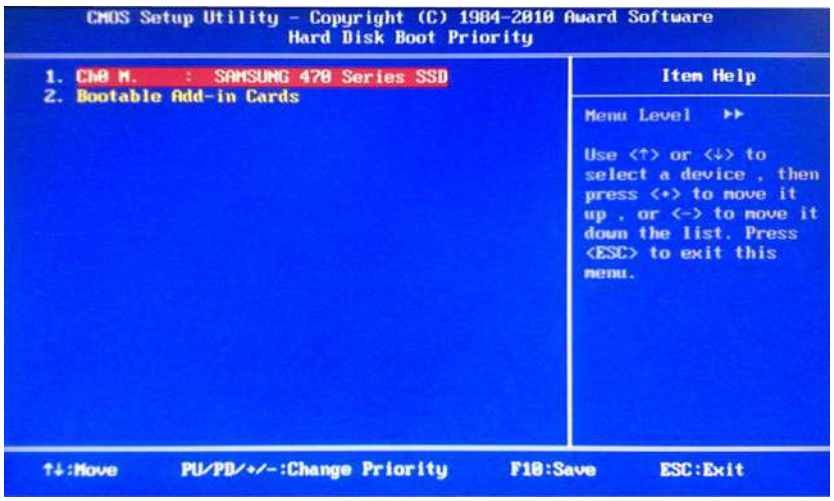
Select [Advanced BIOS Feature] in the main display

[Figure 5]
To verify the SSD



Select [Hard Disk Boot Priority]

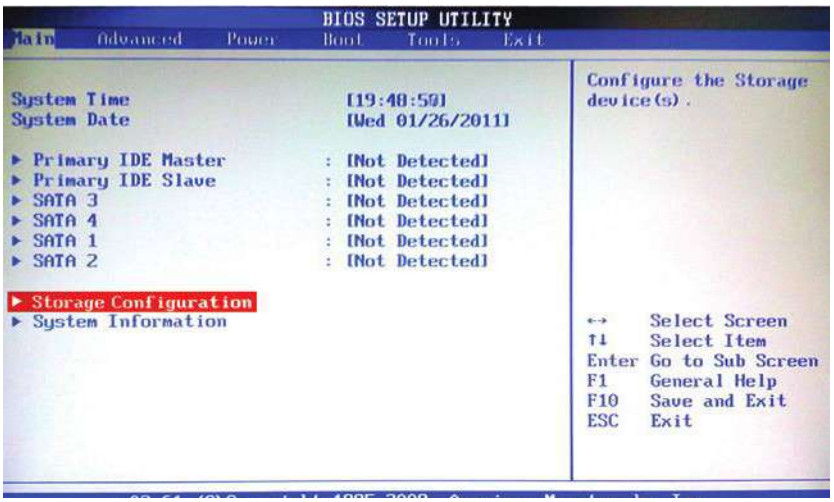
[Figure 6]
To verify the SSD



Verify “SAMSUNG 470 Series SSD” in the display

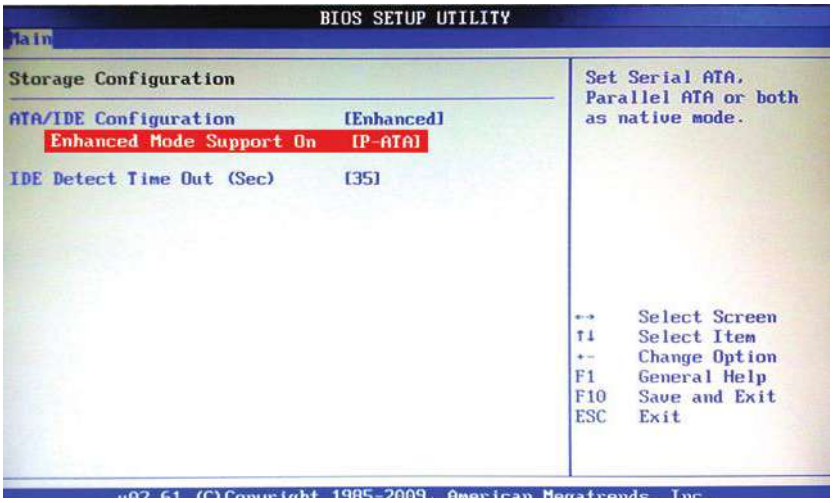
AMI Settings

[Figure 1]
Main Display for BIOS Setup



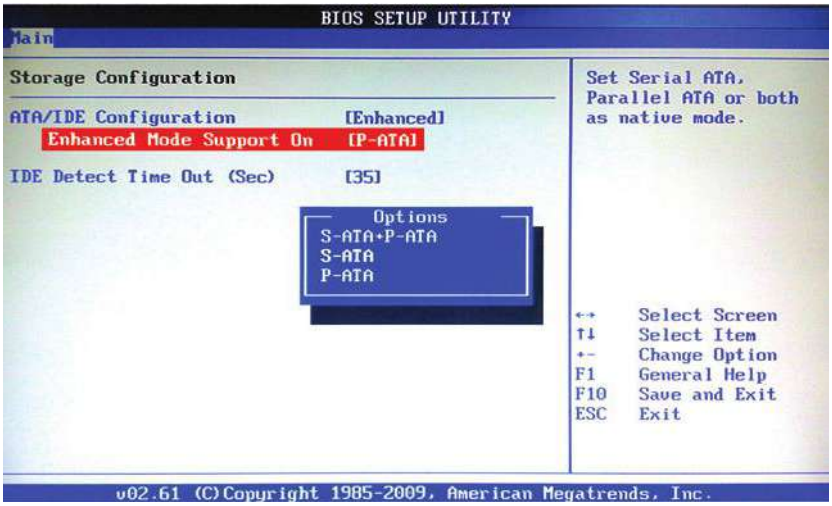
Select [Storage Configuration] in the Main menu

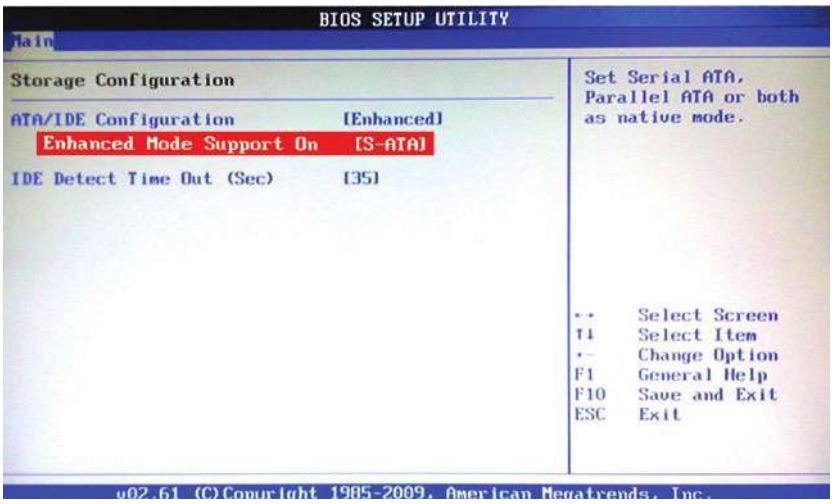
[Figure 2]
Storage Configuration



Select ATA/IDE Configuration [Enhanced]

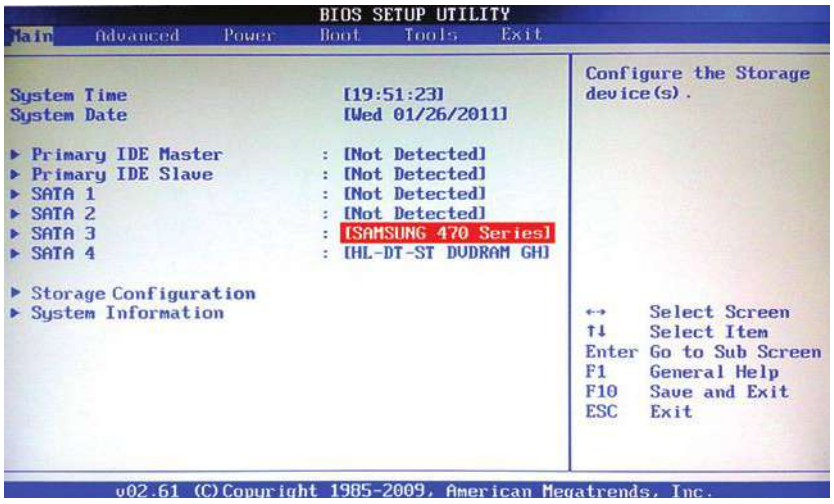
[Figure 3-4]
Storage Configuration





Select Enhanced Mode Support on [S-ATA]

[Figure 5]
Verify the SSD



Verify “SAMSUNG 470 Series” in the Main display

OS Installation

Windows 7 includes an AHCI control driver and does not require additional configuration during installation.

For more information on other operating systems, visit http://www.samsungssd.com. If you are the XP user, you have to get AHCI driver. Contact your chip set manufacturer.

www.samsung.com/ssd