

# How to Build Your PC – Pulborough Computer Club June 2006

## Gather the Equipment

### PC Components

Case  
PSU  
CPU  
Motherboard  
Memory  
Graphics card  
Floppy Disk Drive  
Hard Disk Drive  
DVD Rewriter.

### Software

Operating System  
Driver Disk(s)  
Anti-Virus

### Tools

Posidrive 1 pt screwdriver  
Knife  
Flat bladed screwdriver  
Torch  
Pliers  
Plasters – you will cut your hands more than once!

## The Process

1. Remove all panels from case (and remove all the case contents)
2. Place the case on it's side for easy working
3. Remove the motherboard blanking plate from the case and throw away
4. Replace the blanking plate with the one that came with the motherboard
5. Check layout of motherboard screws and fit brass standoffs
6. Outside case fit CPU to motherboard
7. Outside case attach CPU fan to fan header
8. Outside case fit memory in slots
9. Before installing motherboard fully, attach all case front panel wires
10. Install motherboard, carefully aligning ports with blanking plate
11. Install graphics card, if using
12. Install floppy disk drive, first removing case blank, screws on upside
13. Install hard disk drive in bay, screws on upside
14. Install DVD RW in bay, first removing case blank, screws on upside
15. Lift case, fit screws on reverse of all drives
16. Attach Power Supply cables
  - a. Motherboard connector (20 or 24 pin)
  - b. Motherboard connector (4 or 6 pin)
  - c. Molex connectors to hard disk, DVD
  - d. Floppy connector to FDD
  - e. SATA connections to SATA HDD (if using)
  - f. Molex or PCI-E connector to graphics card (if required)
17. Attach data cables

- a. IDE cable from motherboard to HDD
  - b. IDE cable from motherboard to DVD
  - c. Floppy cable from motherboard to FDD
  - d. SATA cable from motherboard to SATA HDD (if required)
18. Check all connections once more, before connecting
- a. Keyboard
  - b. Mouse
  - c. Monitor
  - d. Power
19. Turn on, looking for warning messages etc. Press appropriate key to enter BIOS. Change necessary entries (date etc.), check memory amount, CPU speed. If all OK,
20. You're done. You can load the software in the following order
- a. Windows XP
  - b. Motherboard drivers
  - c. Graphic card drivers
  - d. Other hardware drivers, esp. internal PCI hardware
  - e. Anti-Virus
  - f. Internet connection set up
  - g. Windows XP updates
  - h. Other software

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