

Parts List

ATX Computer Case

The **CASE** is a unit that is used to house the main components of a computer and can be found in many forms.

The MINI ATX DESKTOP CASE

These have been specially designed to house a **MINI ATX MOTHERBOARD** and sit on the work surface such as a desk, the monitor is then placed on top of the case. **ATX** is the size and dimensions of the **MOTHERBOARD** also known as the **FORM FACTOR**. These cases normally have



QTY	BAY SIZE	TYPE
1	5 ¼"	External
1	3 ½"	External
1	3 ½"	Internal

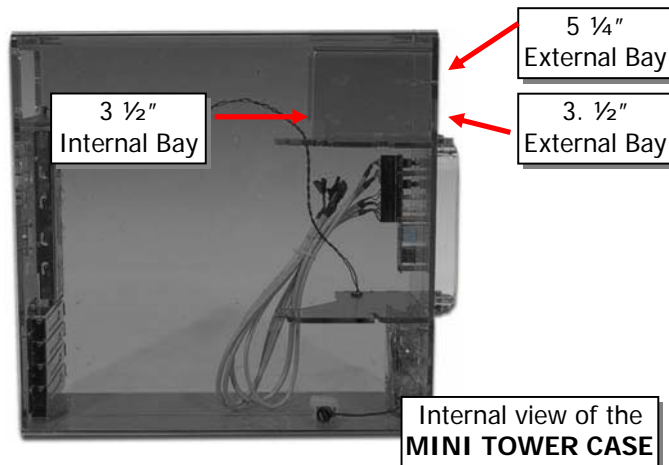


The **5.25" EXTERNAL BAY** can support one **5.25" DEVICE** such as a **CD-ROM** or **DVD DRIVE**. The **3.5" EXTERNAL BAY** is normally used to house a **FLOPPY DISK DRIVE** and/or **CARD READERS** (back to these later), internally you will find just one **3.5" BAY** used for a standard **HARD DRIVE**.

The MINI TOWER CASE

This is very similar to the **MINI ATX DESKTOP CASE** with the same number of **BAYS**. These can also be stood on a work surface along side the monitor or stood on the floor.

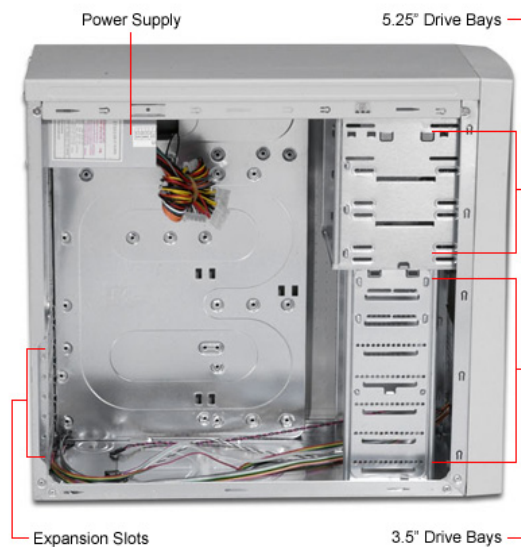
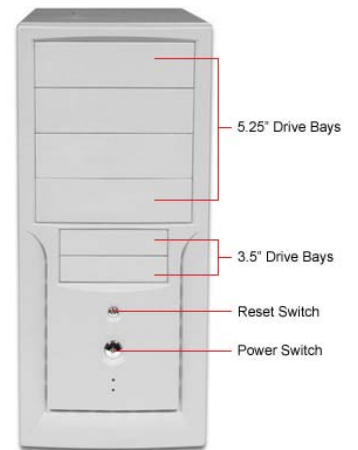




The MIDI TOWER CASE

This is probably the most common case found today, it has been designed for the **ATX MOTHERBOARD**. It has the advantage over the **DESKTOP** and **MINI TOWER CASE** because it can house many other devices. A typical **MIDI TOWER CASE** has the following

QTY	BAY SIZE	TYPE
4	5 1/4"	External
2	3 1/2"	External
4	3 1/2"	Internal



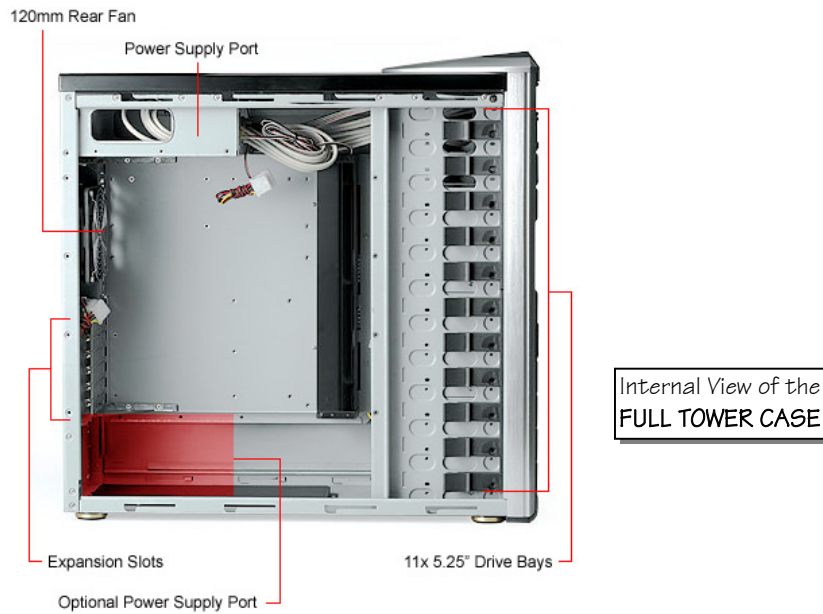
The FULL TOWER

These are designed to house a large number of devices and are often used for **FILE SERVERS**, computers used to store **DATA** on a **NETWORK**. You also find support for **HOT SWAPPABLE HARD DRIVES**, these are **HARD DRIVES** that can be disconnected

from the computer without it having to be switched off, which is a useful feature if the **SERVER** is accessed by many **USERS**.

A **FILE SERVER** could also have at least one backup device such as a **TAPE STREAMER**, this is used to copy the **DATA** from the **HARD DRIVES** within the **FULL TOWER** for long term storage.

QTY	BAY SIZE	TYPE
11	5 ¼"	External



Before assembling any computer a few precautions should be adhered to.



IMPORTANT!

1. *Unplug the POWER CABLE from the wall socket before touching any components*
2. *Handle the components by the edges and avoid touching any electronic components*
3. *Use an ANTI STATIC WRIST STRAP when possible*

The case we see here is called a **KL-400 ATX MIDI TOWER CASE** from **CASECOM**.



It has **4 x 5 ¼" DRIVE BAYS** and **2 x 3 ½" DRIVE BAYS**. On the front panel you will find two **LED'S** or **LIGHT EMITTING DIODES**. One of these is the **POWER LED** and the other is the **HARD DRIVE LED**.

Power and Hard Drive LED's

You will also find a **POWER** and **RESET SWITCH**

Power and Reset Switches



This case also has a front **FLAP** which when pulled down will expose two additional **USB (UNIVERSAL SERIAL BUS) PORTS**



1. Remove the **SIDE PANELS** from the **CASE**

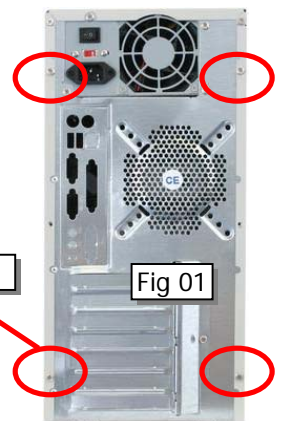
HOW:

- a) Remove the 4 fixing screws found at the rear of the **CASE** and place them in a suitable container, fig 01
- b) Slide both side panels off

If we look at the rear of the case we will find the **MAINS POWER SWITCH** and the **MAINS POWER SOCKET**

4 Fixing screws

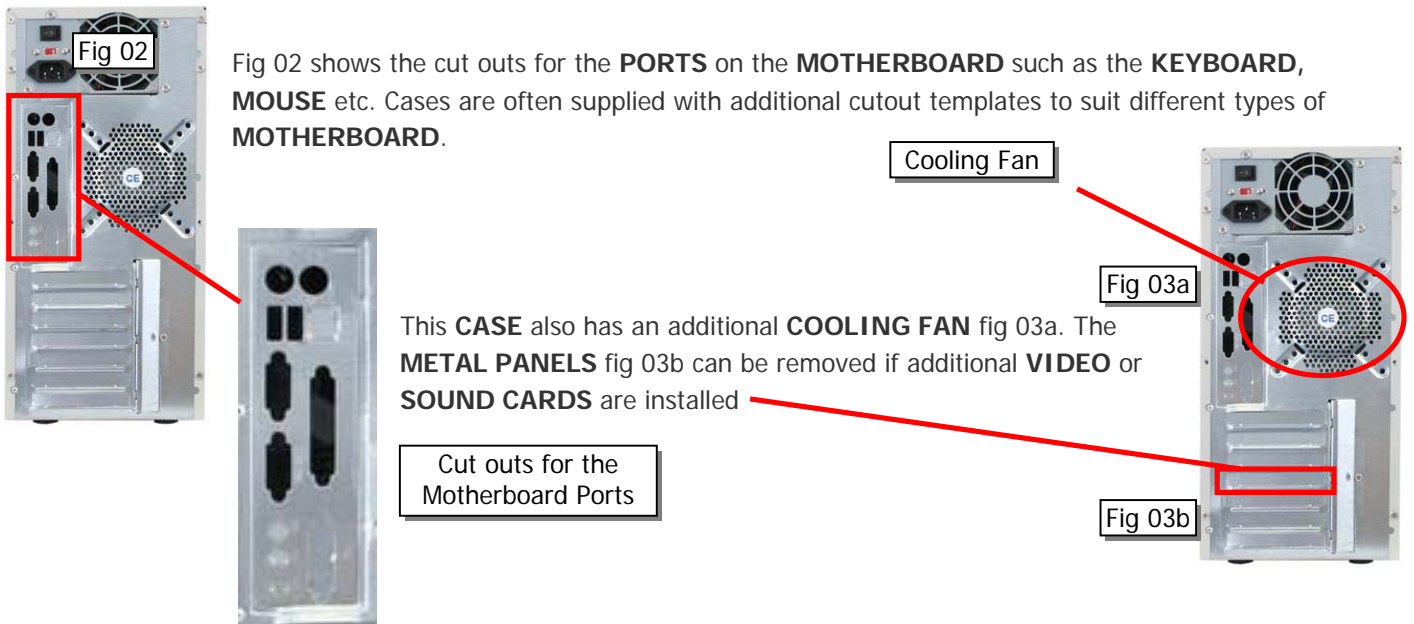
Fig 01



Mains Power Switch and Mains Power Socket

Power Supply

You will also find that inside of the **POWER SUPPLY** is an internal fan that maintains the temperature of the unit. Should this fans fail it will cause the **POWER SUPPLY** to overheat and in most cases burn out.



Before you continue please read the following

STATIC ELECTRICITY CAN DESTROY ELECTRONIC COMPONENTS

*This is an electrical charge that builds up within you from your clothes and your environment. It can be passed from person to person and is normally harmless, however this **STATIC CHARGE** can, when discharged reach very high voltages and can destroy some electronic components*

*You can reduce this **STATIC CHARGE** by wearing an **ANTISTATIC WRIST STRAP***

At this point you should fix an **ANTI STATIC WRIST STRAP** around your wrist fig 04 and attach the crocodile clip to the case. If you do not own an **ANTI STATIC WRIST STRAP** you can discharge yourself by touching the **METAL CHASSIS** of the **COMPUTER CASE**

An **ANTISTATIC WRIST STRAP** or **ESD WRIST STRAP**, or **GROUND BRACELET** is an **ANTISTATIC** device used to prevent **ELECTROSTATIC DISCHARGE (ESD)** by safely grounding a person working on electronic equipment

It consists of a stretchy band of fabric with fine conductive fibers woven into it. The fibers are usually made of carbon or carbon-filled rubber, the strap is bound with a stainless steel clasp or plate. The wrist strap is often used in conjunction with an **ANTI-STATIC MAT** on the workbench, or a special static-dissipating plastic laminate on the workbench surface.



<i>Date</i>		<i>Students Signature</i>	
<i>Notes:</i>			

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