

User's Manual

Performance *Plus* Series

PLUS600 Series Mini Tower Case



Antec
Performance

Disclaimer

This manual is intended only as a guide for Antec's Computer Enclosures. For more comprehensive instructions on installing your motherboard and peripherals, please refer to the user's manuals which come with your components and drives.

PLUS600 Series - Mini Tower Case

The Antec TruePower power supply that comes with this case is equipped with TruePower circuitry which, among other features, allows the power supply fans to be constantly monitored and controlled. Based on the demands of your system, the fans will rotate as slowly as possible to keep noise at an absolute minimum and overall noise will be much lower than in power supplies equipped with traditional thermally-controlled fans.

Antec Low Noise Technology is a new approach that achieves optimum balance between noise reduction and necessary cooling. The power supply fans run at the lowest speed appropriate to load and conditions determined by an advanced temperature response system.

Additionally, your TruePower power supply can control the system case fans. There are two dedicated fan connectors marked Fan Only from the power supply to connect the system case fans to. You may connect your case fans to it and have the TruePower control the speed of the case fans.

Note: Please do not connect more than three external fans to the Fan Only connectors in any combination. For maximum cooling you may choose to connect the case fans to the regular 4-pin peripheral connectors, but in this fashion noise will not be reduced.

The power supply comes with a main power switch. Make sure you turn the switch to the ON (I) position before you boot up your computer for the first time. In normal operation there is no need to turn the switch to the OFF (O) position since the power supply is equipped with a soft on/off feature which turns your computer on and off through the soft switch on your computer case. You may need to turn the switch to the OFF position occasionally should your computer crash and you cannot shut it down through use of the soft switch.

Set Up

1. Take the case out of the box.
2. Remove the Styrofoam.
3. Remove the plastic bag.
4. Place the case upright with the power supply fan at the back facing you on a stable flat surface.
5. Remove the screws and unlock the side panel (the one with the latch), swing the panel out, and remove.
Note: Please doesn't try to use your fingernails to pry or lift the panels.
6. Inside the case you should see the power supply, some wiring with marked connectors (USB, IEEE1394, PWR etc.), an installed I/O panel, a power cord and a plastic bag containing more hardware (screws, brass standoffs, plastic stands, etc.) and eight Drive Rails.

Motherboard Installation

This manual is not designed to cover CPU, RAM, or expansion card installation. Please consult your motherboard manual for specific mounting instructions and troubleshooting.

1. Lay the case down so that the open side is up. You should be able to see the drive cage and power supply.
2. Make sure you have the appropriate I/O panel for your motherboard. If the panel provided is not suitable for your motherboard, please contact your motherboard manufacturer for the correct I/O panel.
3. Line up motherboard with the standoff holes, and determine which ones line up and remember where they are. (**Note:** Not all motherboards will match with all of the provided screw holes, and this is not necessary for proper functionality. In other words there will likely be extra holes.)
4. Lift up and remove your motherboard.
5. Screw in the brass standoffs to the threaded holes that line up with your motherboard.
6. Place your motherboard on the brass standoffs.
7. Screw in your motherboard to the standoffs with the provided metallic Phillips-head screws.
8. Your motherboard is now installed into the case.

Power/LED Connections

The Antec TruePower supply is an ATX12V form factor power supply. An ATX12V power supply has a single 20-pin Main Power Connector, a 6-pin AUX Power Connector, and a 4-pin +12V Power Connector for the motherboard. It also comes with seven 4-pin Peripheral Power Connectors and two 4-pin Floppy Drive Power Connectors for your drives. It is backwards compatible to previous ATX form factor power supplies. If your motherboard does not support the AUX Power Connector or the +12V Power Connector, you can still use this power supply.

The TruePower power supply is also equipped with a 3-pin fan signal connector. Connect it to one of the fan connectors on your motherboard. You may monitor the speed of the rear power supply fan through your motherboard BIOS or through the monitoring software that comes with your motherboard.

Note: The speed of the fan go as low as 1500 RPM when the temperature is low. At these speeds some motherboards may not be able to detect the fan speed adjustment during the boot up stage. Please refer to your motherboard manual for proper fan monitoring set up.

1. Connect the 20-pin ATX power connector and other power connectors to your motherboard.
2. Reset (labeled RESET SW) connects to your motherboard at the RST connector. The label should be facing the front of the case, and for all of the following connectors as well.
3. Power LED (labeled POWER LED) connector is located behind the Reset connector.
4. Power Switch (labeled POWER SW) connects to the PWR connector on the motherboard.
5. Speaker (labeled SPEAKER) connector is behind the PWR connector.
6. Hard Drive LED (labeled H.D.D. LED) connects to the IDE connector.
7. LED I, LED II connectors: This case comes with two extra LED marked LED I, LED II. You may use these LED for various purposes such as SCSI LED, Message LED (blinks when your modem received fax or mail).

USB Connection

There are 8 wires with connectors coming out from the front mounted USB ports of the case.

1. Locate the internal USB port on your motherboard. It should contain 10-pins in two rows.
Note: On some motherboards one or two pins may be marked as NC. This indicates no contact. It is an empty pin. You don't need to use it. On some motherboards one pin may be missing on either one or both rows. Don't worry about it. You only need 8 pins to connect to.
2. Consult your motherboard manual to get each of the pin-out positions.
3. Power Pins: There are two power pins, one on each row. They are usually marked as Power, Vcc or +5V. Connect the two +5V connectors to the two power pins. Each connector can go to either pin.
4. Ground Pins: There are two ground pins, one on each row. They are usually marked as Ground or GND. Connect the two GROUND connectors to the two ground pins. Each connector can go to either pin.
Note: On some motherboards, there may be two ground pins on one row. You don't need to use all of them. Make sure to connect one ground pin on each row.
5. Data Pins: There are two plus data pins, one on each row, and two minus data pins, one on each row. They are usually marked as USB2+, USB3+ and USB2-, USB3- or USBP2+, USBP3+ and USBP2-, USBP3- respectively.
 - a. Connect the ① +D connector to any of the two plus data pins. It can go to either of the plus pin.
 - b. Connect the ① -D connector to the minus data pin in the same row with the plus data pin that ① +D connector has just connected to.
 - c. Repeat the same procedures to connect the ② +D and ② -D to the motherboard. Make sure they are in the same row.

IEEE1394 (FireWire, I-Link) Connection

There are six wires with connectors coming out from the front mounted IEEE1394 port of your case. They consist of 2 sets of twisted pair cables - TPA (Twisted Pair A) and TPB (Twisted Pair B), a power cable (VP), and a ground cable (VG).

1. Locate and identify the pin-out of the IEEE1394 port on your motherboard.
2. Power Pin: Connect the VP connector to it.
3. Ground Pin: Connect the VG connector to it.
4. Data Pins: There are two sets of data pins. Each set consists of a plus and a minus pin. They are usually marked as TPA+ and TPA-, TPB+ and TPB-.
 - a. Connect the TPA+ connector to the TPA+ data pin and TPA- connector to the TPA- data pin.
 - b. Connect the TPB+ connector to the TPB+ data pin and TPB- connector to the TPB- data pin.

3.5" Device Installation

1. On the sides of the front bezel there are two tabs. Press the tabs to remove the top half of the bezel.
Note: You can see the external drive bays now. There are three 5.25" drive bays and one 3.5" drive bay assembly which can hold two 3.5" devices.
2. Unscrew the two silver thumbscrews located on the bottom of the drive bays and slide out the 3.5" drive bay assembly.
3. Install your floppy drive into the bottom drive bay. Mount the other 3.5" device into the top drive bay.
4. Slide the whole assembly back into the case and fasten it with the thumbscrews.
5. Inside the case, there is an internal 3.5" drive cage. It can hold three 3.5" devices. Pull the quick release lever towards the rear of the case and release the cage. Put the cage on a flat surface. **Note:** If you want to have a cooling fan in the drive cage, you should install the fan before installing the drives.
6. Mount your other 3.5" devices into the drive cage.
7. Slide and lock the drive cage back into the case.
8. Find a small 4-pin white connector on the power supply and connect it to the male 4-pin connector on the floppy drive.
9. Connect a large 4-pin white connector from the power supply to the male 4-pin connector on each of the other devices.

5.25" Device Installation

1. There are three metal plates covering the 5.25 drive bays.
2. Carefully use your hands to twist the metal plate back and forth until it breaks off.
Note: Don't break off the plates covering the drive bays that you are not using now. Be careful of the newly exposed metal where the grills were attached as these areas are likely to be sharp.
3. Take two of the Drive Rails and mount them onto the sides of the 5.25" device. Make sure the metal portion is angled away from the device and facing forward.
4. Slide the device into the drive bay until you hear a clip.
5. Mount the other devices accordingly.
6. Connect a large 4-pin white connector from the power supply to the male 4-pin connector on each of the devices. After you have finished the installation, carefully use your thumbs to push the plastic drive bay covers off the bezel and attach the bezel back into the case. Like the metal plates, take off the covers that covering the drive bays you are using now.

IDE Cable Connection

This is for IDE devices only.

After you have connected the devices to the power supply, you need to connect the IDE cables between the devices and the motherboard.

1. For hard drives and CD-ROM's, use the 40-pin IDE ribbon cables. For floppy drives, use the 34-pin IDE ribbon cables. These should come with your devices and have a red strip on side indicating pin number 1. When you connect a ribbon cable to a device, make sure that the red strip is toward the power connector.
2. The side that attaches to devices should be the side that has 2 connectors. This will enable you to connect another device if you wish.
3. Connect the far end of the cable to your motherboard on the IDE port, either IDE 1 or IDE 2.

Fan Installation

The case comes preinstalled with one 80mm cooling fan in the rear and one 80mm cooling fan on the side panel, or one 80mm cooling fan in the rear. The fans are installed in the manner that the air is blowing out of the case.

Fan Only Connectors: We recommend our users to connect up to three case fans to the Fan Only connectors so the TruePower supply can control the speed of the fans. When the temperature inside the case is low, the fans will rotate at a lower speed for quiet operation. When the temperature rises, the fans speed up to cool the case down. DO NOT connect other electronic equipment to the FAN ONLY power Connectors.

Optional Cooling fans: The case has two optional 80mm cooling fans that can be installed in the front of the case. One of the optional fans is located inside the 3.5" drive cage. You should install the fan first before you mount your drives into the cage. Install the fans at the manner that the air is bowing into the case to create a steady airflow from the front to the rear.

Note: Antec cooling fans blow in the direction that the Antec logo is facing.

1. With the Antec logo facing inwards, drop the fan into the fan bracket and push it in until it clips on.
2. Connect a large 4-pin white connector from the power supply to the male 4-pin connector on each of the fans.

Washable Air Filter Maintenance

From time to time it will be necessary to wash the installed air filter. Not washing the air filter will result in higher system temperatures and stability problems. We recommend checking the air filter once a month initially. The frequency will change depending on system usage (users who's systems run 24/7 will likely have to check/wash more often than those who don't use their systems every day).



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