



ARMOR



— *User's Manual* —

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Chapter1 Product Introduction

1.1 Specification

VA8000SWA



Model	Armor --- VA8000SWA
Case Type	Super Tower
Side Panel	Transparent side panel
Net Weight	7.5 Kg
Dimension	530 x 220 x 560 mm (H*W*D)
Cooling System	<ul style="list-style-type: none">●Front (intake) : 120 x 120 x25 mm blue LED fan, 1300rpm, 17dBA●Rear (Exhaust) : 120 x 120 x25 mm blue LED fan, 1300rpm,17dBA &90 x 90 x 25mm,1800rpm,19dBA●Top (Exhaust) : 90 x 90 x 25mm, 1800rpm, 19dBA
Drive Bays	11
-Front Accessible	Up to 10 x 5.25" , 2 x 3.5"
-Internal	6 x 3.5"
Material	Chassis: 1.0 mm Aluminum Front bezel: Aluminum
color	Silver
Expansion Slots	7
Motherboards	Micro ATX, ATX, Extend ATX, BTX
BTX upgraded kits (option : A9358)	SRM / Rear plate

VA8000BWS



Model	Armor---VA8000BWS
Case Type	Super Tower
Side Panel	Transparent side panel
Net Weight	16.2Kg
Dimension	530 x 220 x 560 mm (H*W*D)
Cooling System	<ul style="list-style-type: none">●Front (intake) : 120 x 120 x25 mm blue LED fan, 1300rpm, 17dBA●Rear (Exhaust) : 120 x 120 x25 mm blue LED fan, 1300rpm,17dBA & 90x90 x25mm,1800rpm,19dBA●Top (Exhaust) : 90 x 90 x 25mm, 1800rpm, 19dBA
Drive Bays	11
-Front Accessible	Up to 10 x 5.25" , 2 x 3.5"
-Internal	6 x 3.5"
Material	Chassis: 1.0 mm SECC Front bezel: Aluminum
color	Black
Expansion Slots	7
Motherboards	Micro ATX, ATX, Extend ATX, BTX
BTX upgraded kits (option : A9358)	SRM / Rear plate

Chapter2 Case Mechanical Operation

2.1 How to open the side panel



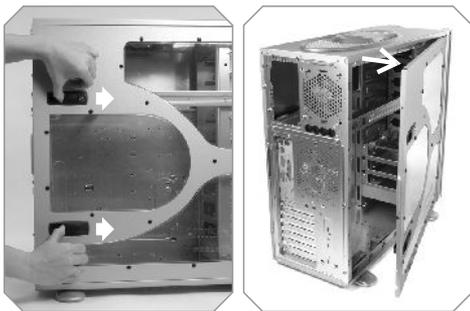
To find out the side panel key from the back side of the case then open it as the picture.

1



Make sure the side panel lock is opened.

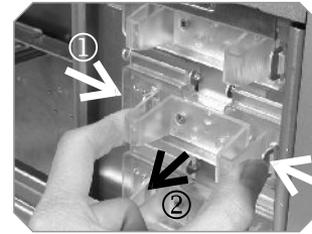
2



Push the button then swing out the side panel.

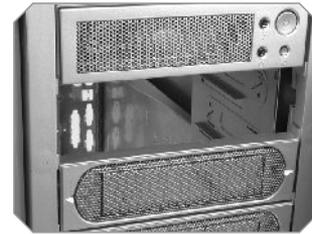
3

2.2 Installing 5.25" Device



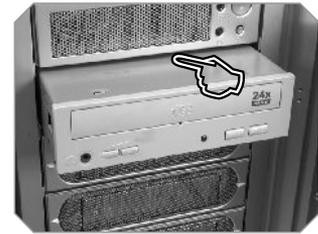
Squeeze and pull out-ward the tool-free clip

1



Remove the drive bay cover from the selected position, then insert the device into the 5.25" drive bay

2



Squeeze and push in-ward the tool-free clip.

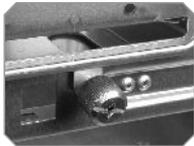
3



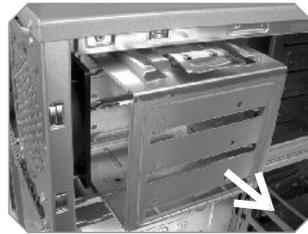
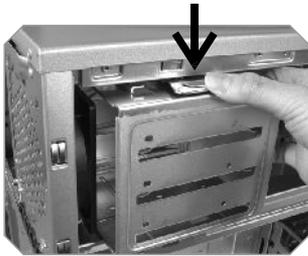
Finish installation

4

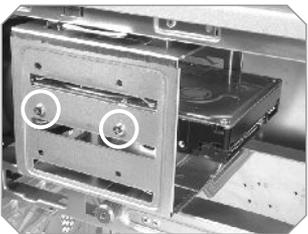
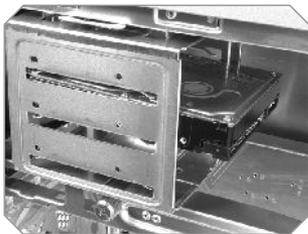
2.3 Installing 3.5" HDD



Unscrew the thumb screw for removable HDD cage

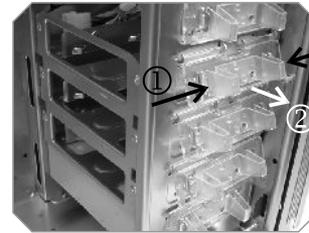


Push down and hold the metal tab, then pull the HDD cage out-ward to remove from chassis.



Secure HDD with Screw

2.4 Removable 12cm Fan cage with 3HDD



Squeeze and pull out-ward the tool-free clip

Note: Remove 12 cm fan cage is secured with 3 tool-free clips. Be sure to free all 3 tool-free clips



After loosen tool-free clip, remove 3 drive bay covers located in front of the 12 cm fan cage. Then slide the fan cage out-ward to remove.



Remove another 3 drive bay covers at desired location for 12 cm fan cage. Squeeze and pull out-ward the tool-free clip at desired location



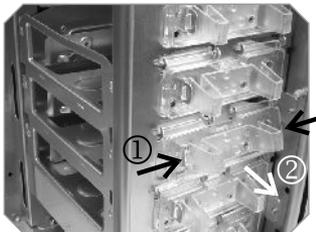
Insert the 12 cm fan cage into the desired location by sliding the cage in-ward from the front of chassis.



Squeeze and push in-ward the tool free clip to secure the 12 cm fan cage.

Replace back the 3 drive bay covers previously removed

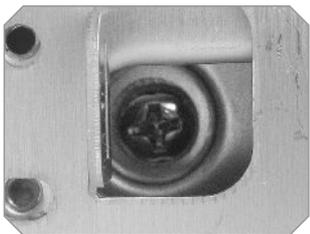
2.5 Installing 3.5" HDD (For 12cm Fan Cage)



Squeeze and pull out-ward the tool-free clip at desired slot.



Insert HDD by sliding HDD into the 12 cm fan cage.

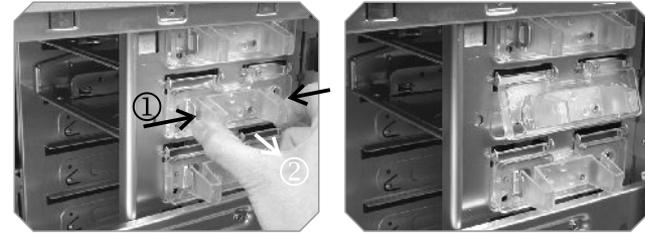


Secure HDD by tightening screw to HDD

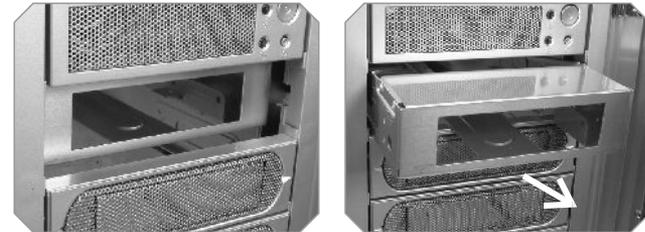


Squeeze and push in-ward the tool free clip to secure the HDD in the 12 cm fan cage.

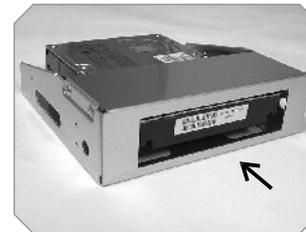
2.6 5.25" to 3.5" Drive Tray Device Installation.



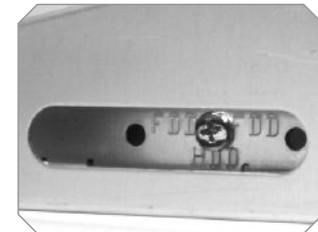
Squeeze and pull out-ward the tool-free clip securing the drive tray



Remove drive bay cover in front of the drive tray. Then slide out the device tray.



Insert HDD drive into device tray. Secure HDD with screw from the side of device tray labeled HDD.



Insert back the device tray and replace back the drive bay cover.

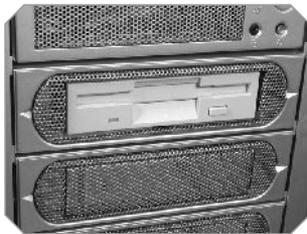


Squeeze and push in-ward the tool free clip to secure the device tray.

Installing Floppy Disk Drive to Device tray

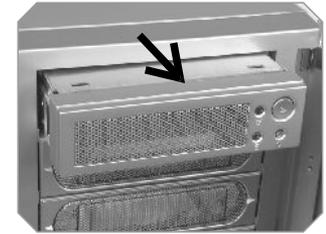
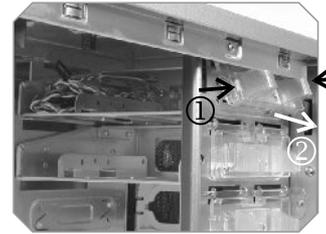


Remove device tray and insert floppydisk drive into device tray. Secure FDD with screw from the side of device tray labeled FDD.

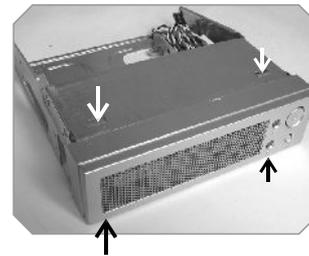


Insert back device tray. Remove mesh on drive bay cover. Then replace back drive bay cover. Squeeze and push in-ward the tool free clip to secure the device tray

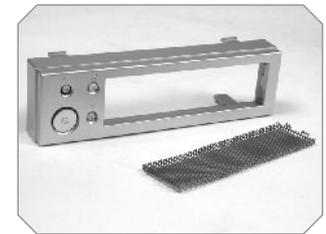
2.7 Installing 3.5" Device to Drive Tray With Power Button



Squeeze and pull out-ward the tool-free clip securing the drive tray with power button. Remove and slide drive bay out-ward to remove.

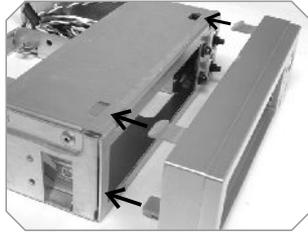


Squeeze both top and bottom portion of drive tray cover picture to the left to remove cover.

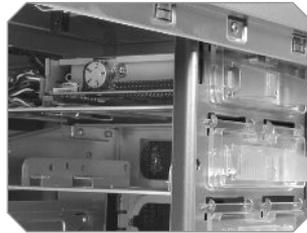
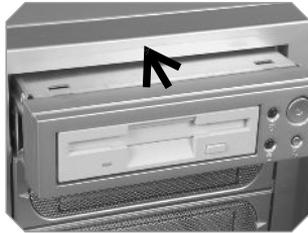


Remove mesh from cover

2.8 Installing Power Supply



Place cover back to drive tray to its original position. Insert 3.25" device and secure device with screw.



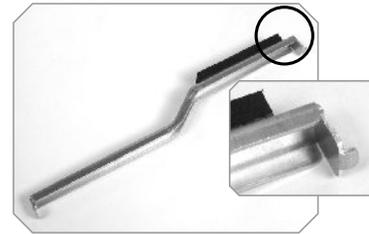
Insert back the device tray pictured above. Squeeze and push in-ward the tool free clip to secure the device tray



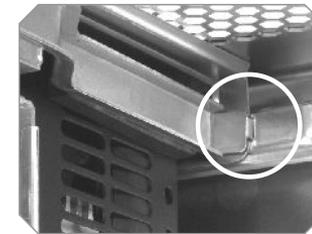
Drive tray with Power Button can be placed at any drive bay desired.



Install power supply unit as shown in pictures



Locate the hook of PSU supporter on the hole which is circled in photo above



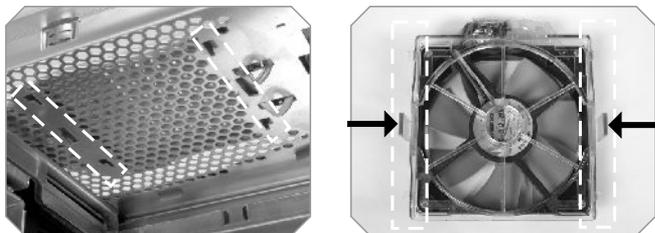
Swing the supporter to its proper position as shown in photo above

2.10 How to remove the fan & fan holder

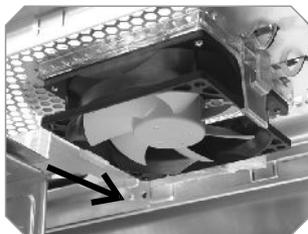


Secure the supporter with screw

2.9 Installing the fan on top of the case

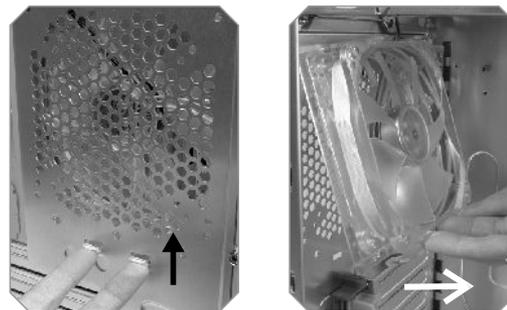


Press-in 2 clips on the side of fan



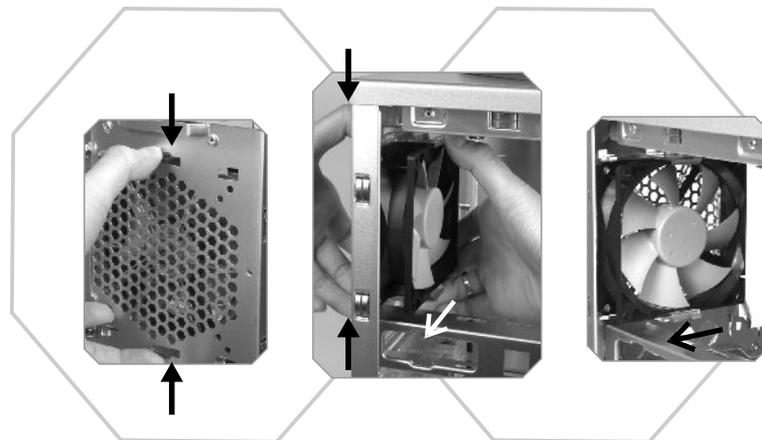
Align all clips with mounting holes, then push-in the fan against case body to secure it.

12 cm rear fan



Push fan clip upward to loose fan, then remove fan holder from inside

9 cm rear fan



To remove fan & fan holder by press-in clips then pull both from inside. Please see above picture

2.11 Air Cooling System



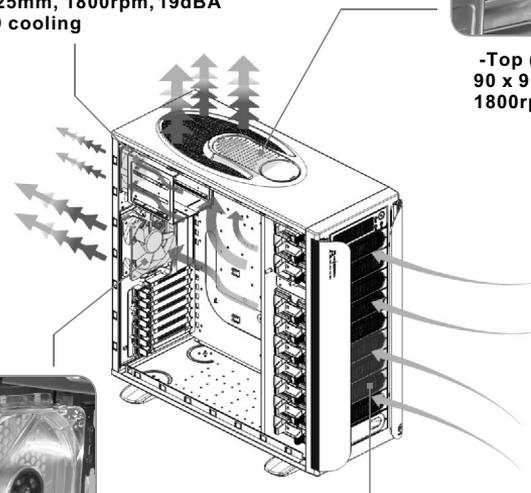
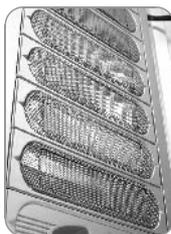
-90 x 90 x 25mm, 1800rpm, 19dBA
-Rear HDD cooling

-Top (Exhaust):
90 x 90 x 25mm,
1800rpm, 19dBA



-Rear (Exhaust) :
120 x 120x25 mm blue LED fan,
1300rpm

-Front (intake) :
120 x 120x25 mm
blue LED fan,
1300rpm, 17dBA

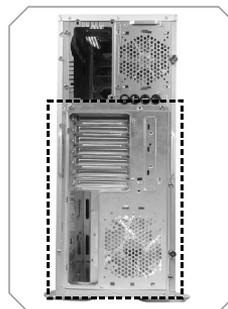


4-pin connector:
connect to PSU



3-pin signal connector:
connect to M/B

2.12 BTX Upgraded Kits



BTX rear plate



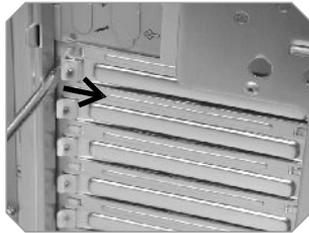
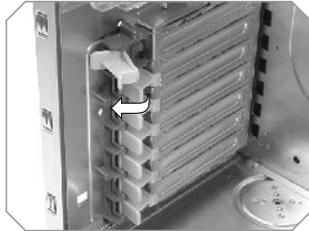
BTX SRM
(Supported Retention Module)



BTX upgraded kit box

2.13 PCI slot tool-free function operation

Open the plasticclip then take off the PCI bracket as follow.



Chapter3 Motherboard & Leads Installation

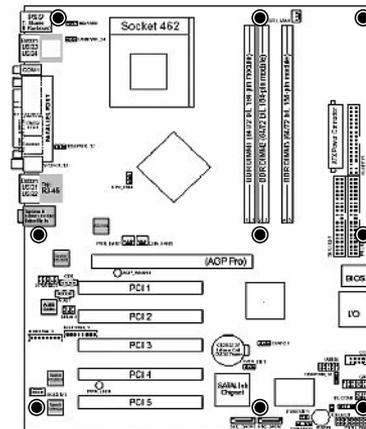
3.1 Motherboard Installation

Each motherboard has different standoff layout. It is highly suggested that you refer to your motherboard's manual when installing motherboard into the case. The cases are applicable with Extend-ATX、Standard ATX、MicroATX motherboards. Your motherboard may require a special I/O Panel, which should be included with your motherboard.

Placement Direction:

When installing the motherboard, make sure you follow the direction provided by your motherboard manufacturer. On most standard motherboards, the edge with external ports goes to the rear part of the chassis. It is highly recommended that you install CPU, heat sink and modular components before fixing the motherboard inside the chassis.

← This side towards the rear of the chassis



● = the locations of the screw holes. Note these locations and place included standoffs on the chassis first.

Above illustration is a sample of what the motherboard's layout. For more detail screw hole placement, please refer to your motherboard manual.

3.2 Case LED connections



On the front of the case, you can find some LEDs and switch leads (POWER SW*1, POWERLED*1, H.D.D. LED*1, RESET SW*1, SPEAKER*1).

Please consult user manual of your motherboard manufacturer, then connect these leads to the panel header on the motherboard. These leads are usually labeled; if not, please trace them back to the case front to find out their source.

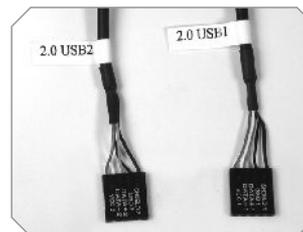
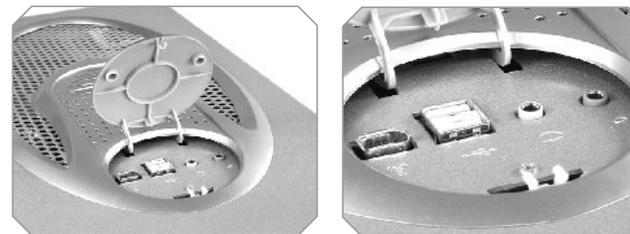
- **POWER LED** connects to your M/B at the PLED.
- **POWER SW** connects to the PWR connector on the motherboard.
- **H.D.D LED** connects to the 2-pin labeled HDDLED connector.
- **RESET SW** connects to the RSW connector on the motherboard.
- **SPEAKER** connector: find out the 4-pin labeled SPEAKER on the M/B then connect it.

3.3 USB2.0 & IEEE1394 Firewire connection

USB connection

Please consult your motherboard manual to find out the section of "USB connection".

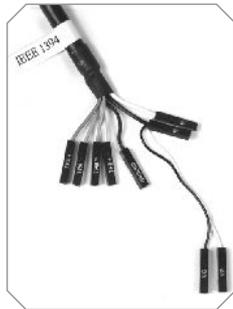
USB2.0 connection				
M/B layout (Ex: ASUS)		Case layout		
1	USB+5V	VCC 1	Red	USB 1
2	LDM1	DATA-1	White	
3	LDP1	DATA+1	Green	
4	GND	GND 1	Black	
5	NC	SHIELD 1	Black	USB 2
6	USB+5V	VCC 2	Red	
7	LDM2	DATA-2	White	
8	LDP2	DATA+2	Green	
9	GND	GND 2	Black	
10	--	SHIELD 2	Black	



IEEE1394 Firewire connection

Please consult your motherboard manual to find out the section of "IEEE1394 Firewire connection".

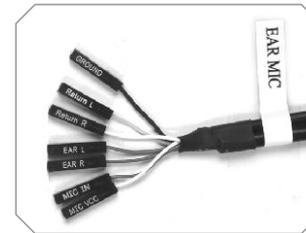
1394 Firewire connection			
M/B layout (Ex: ASUS)		Case layout	
1	+12V	VP	White
2	Ground	VG	Black
3	TPB-	TPB- or TPB*	Red
4	TPB+	TPB+ or TPB	Green
5	TPA-	TPA- or TPA*	Orange
6	TPA+	TPA+ or TPA	Blue
7	Ground	Ground	Black



3.4 Ear & MIC connections

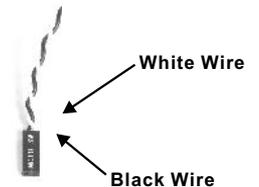
Please consult your motherboard manual to find out the section of "front panel audio connector".

Ear & Mic connection			
M/B layout (Ex: ASUS)		Case layout	
1	LINE_OUT R	EAR R	Red
2	LINE_IN R	Return R	White
3	LINE_OUT L	EAR L	Green
4	LINE_IN L	Return L	Yellow
5	MIC	MIC IN	Red
6	MIC PWR	MIC VCC or MICBIAS	White
7	Ground	Ground	Black



3.5 Case open alarm function (Intrusion switch)

- 1 To find out the cable with 2pin connector (Micro SW) from the rear of inside the chassis.
- 2 To find out the position of Chassis Alarm on your motherboard. (please consult your motherboard manual)



Chapter4 Other

4.1 Silent Purepower™ power supply (optional)

The Thermaltake Silent™ Purepower specification meets Intel Pentium 4 and AMD K7; it offers plenty of functions, which mainly include:

1. Automatic Fan Speed Control: The Silent Purepower™ power supply can detect the inside heat and automatically adjust the fan speed to provide adequate airflow.

2. Ultra Silent: Ball bearing fans with high reliability and super low acoustic noise under all load condition.

The functions can assure the Silent Purepower™ meet the balance in noise control and heat exhausted. The Silent Purepower™ provides complete protection function as follow:

1. Over thermal protection at 100 °C-105 °C
2. Short circuit protection on all output.
3. Over voltage protection / Under voltage protection.
4. Over current protection.

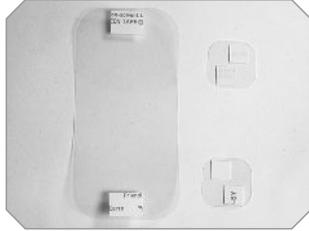
Besides, Thermaltake enables the quality assurance of the Silent Purepower™: 100% Hi-POT and ATE Function Test, 100% Burn-In and AC Input cycled on/off under high temperature condition. Furthermore, it has been approved by **UL, CSA, TUV, VDE, NODIC, CB, FCC, CE, CNS.**



There are three main products of Thermaltake PSU, it is divided into standard, VR and specialty power supply unit. Please refer to <http://www.thermaltake.com/purepower/main.htm>

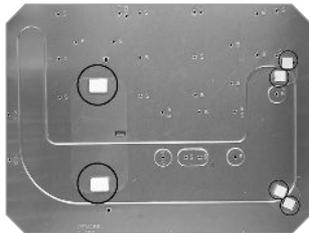
Important Notice -

Contents below are additional information for proper motherboard installation for Thermaltake Armor (page 18) / Kandalf (page 20) Full Tower Chassis.

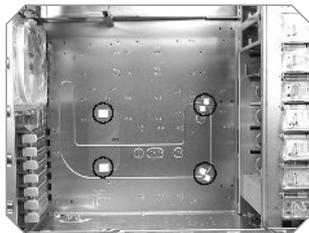


Inside the accessory box, please locate the Mylars (clear plastic films).

***Note: Due to the unique design of the Armor /Kandalf Chassis, these Mylar tapes are included to prevent ATX motherboards from contacting the chassis.**



Remove the adhesive backing and place the Mylars over each location as shown.



Completed. Please note the Mylar tapes included are transparent. The image here is for reference only.

***Note: When assembling BTX motherboards into the Armor /Kandalf chassis, these Mylartapes are not necessary.**

