



Thermaltake
COOL All YOUR LIFE

© 2006 Thermaltake Technology Co., Ltd. All Rights Reserved.
All other registered trademarks belong to their respective companies.



Thermaltake

COOL ALL YOUR LIFE

ARMOR LCS

VE2000 Series

User's Manual



Limited Liability

These warranties replace all other warranties, expressed or implied including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose.

Thermaltake disclaims all other warranties, expressed or implied including, without limitation, implied warranties of merchantability and fitness for a particular purpose.

Some jurisdictions do not allow the exclusion of implied warranties so this limitation may not apply to you. All expressed and implied warranties are limited in duration to the limited warranty period. No warranties apply after that period, some jurisdiction do not allow limitation on how long an implied warranty lasts, so this limitation may not apply to you.

Limitations of liability, Thermaltake's responsibility under this, or any other warranty, implied or expressed, are limited to repair or replacement, as set forth above. These remedies are the sole and exclusive remedies for any breach of warranty. Thermaltake is not responsible for direct, special, incidental, or consequential damages resulting from any breach of warranty or under any other legal theory including, but not limited to, lost profits, downtime, goodwill, damage to or replacement of equipment and property, and any cost of recovering, reprogramming, or reproducing any program or data stored in or used with a system containing Thermaltake product. Some jurisdictions do not allow the exclusion or limitation of incidental or exclusions may not apply to you.

Extent of limited warranty, Thermaltake does not warrant that your product will be free from design defects or errors known as "ERRATA". Current characterized errata are available upon request. This limited warranty does not cover any costs relating to removal or replacement of any part that is soldered or otherwise affixed to your system's motherboard. This limited warranty does not cover damages due to external causes, including accidental, problems with electrical power, usage not in accordance with product instructions, misuse, neglect, alteration, repair, improper installation, or improper testing. Nor is Thermaltake held liable for any bodily damage that may result during the installation, maintenance, repair, or is otherwise associated with this product, Thermaltake is free from any legal actions that may result in death, pain and anguish, or any other form of personal damage that may occur by purchasing this product.

You, the buyer, agree to this warranty and its term set within its expressed and implied limited warranty. This limited warranty gives you specific legal rights, and you may also have other right that varies from jurisdiction to jurisdiction.

Contents

Chapter 1. Product Introduction

1.1	Specification	04
-----	---------------------	----

Chapter 2. Case Mechanical Operation

2.1	How to open the side panel	05
2.2	Installing 5.25" Device	06
2.3	Installing 3.5" HDD	07
2.4	HDD installation	08
2.5	Installing 3.5" Device to Drive Tray With Power Button	11
2.6	Installing Power Supply	13
2.7	Installing the Fan on Top of the Case	14
2.8	How to Remove the Fan & fan holder	15
2.9	Air Cooling System	16
2.10	BTX Upgraded Kits	17
2.11	PCI slot tool-free function operation	18

Chapter3 Motherboard & Leads Installation

3.1	Motherboard Installation	19
3.2	Case LED connections	21
3.3	USB2.0 & IEEE1394 Firewire connection	22
3.4	Ear & MIC connections	23
3.5	Case open alarm function	24

Chapter4 Other

4.1	Silent Purepower™ power supply(optional)	25
-----	--	----

Chapter 5. Liquid Cooling Installation

5.1	Specification	26
5.2	Components	27
5.3	Installation steps	28
5.4	Install Waterblock	29
-5.4.1	Clip the Waterblock on CPU (Inter P4 LGA775) ..	29
-5.4.2	Clip the Waterblock on CPU (AMD K8)	32
-5.4.3	Clip the Waterblock on CPU (Intel BTX Platform)	38
5.5	Install Pump & Tank	40
5.6	Install Water tube	41
5.7	Connect the Front Fan to Power Supply	46
5.8	Fill Coolant	47
5.9	Q & A	49



VE2000SWA

Model	VE2000SWA
Case Type	Super Tower
Side Panel	Transparent Window
Net Weight	13.87 kg

Dimension (H*W*D)	530 X 220 X 560 mm
Cooling System	Front (intake) Dual 120 x 120 x 25 mm, Blue LED Fan, 1300rpm, 17dBA Rear (exhaust) 120 x 120 x 25 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	4 x 5.25" · 1 x 3.5"
-Internal	10 x 3.5"
Material	All Aluminum
Color	Silver
Expansion Slots	7
Motherboards	Micro ATX, ATX, Extend ATX, BTX BTX Upgrade Kits SRM/Rear plate (optional)
PSU	Standard ATX PSII
I/O Ports	USB 2.0 x 2, IEEE 1394 x 1, HD Audio & Speaker ports
BTX Upgrade Kit	SRM/Rear plate (option: A9358)

Liquid Cooling System

All-in-one waterblock :
 For Intel BTX platform, P4 775 and AMD K8
Performance radiator :
 (A) Dimension of radiator :120(W) mm x 240(D) mm
 (B) Two 1300RPM 120mm fans
P500 liquid pump :
 Power DC 12V liquid pump (500L/hr)
Reservoir :
 Contains 350 c.c. of liquid capacity, easy to refill
Water tube :
 Transparent UV tube (3/8") & industrial-grade
 rubber tube (pre-assembled)



VE2000BWS

Model	VE2000BWS
Case Type	Super Tower
Side Panel	Transparent Window
Net Weight	21.08 kg

Dimension (H*W*D)	530 X 220 X 560 mm
Cooling System	Front (intake) Dual 120 x120 x 25 mm, Blue LED Fan, 1300rpm, 17dBA Rear (exhaust) 120 x 120 x 25 mm, blue LED fan, 1300rpm, 17dBA; 90 x 90 x 25mm, 1800rpm, 19dBA Top (exhaust) 90 x 90 x 25mm, 1800rpm, 19dBA
Drive Bays -Front accessible -Internal	11 4 x 5.25" · 1 x 3.5" 10 x 3.5"
Material	Chassis:1.0 SECC Front Bezel: Aluminum
Color	Black
Expansion Slots	7
Motherboards	Micro ATX, ATX, Extend ATX, BTX BTX Upgrade Kits SRM/Rear plate (optional)
PSU	Standard ATX PSII
I/O Ports	USB 2.0 x 2, IEEE 1394 x 1, HD Audio & Speaker ports
BTX Upgrade Kit	SRM/Rear plate (option: A9358)

Liquid Cooling System

All-in-one waterblock :
For Intel BTX platform, P4 775 and AMD K8
Performance radiator :
(A) Dimension of radiator :120(W) mm x 240(D) mm
(B) Two 1300RPM 120mm fans
P500 liquid pump :
Power DC 12V liquid pump (500L/hr)
Reservoir :
Contains 350 c.c. of liquid capacity, easy to refill
Water tube :
Transparent UV tube (3/8") & industrial-grade
rubber tube (pre-assembled)

Chapter2 Case Mechanical Operation

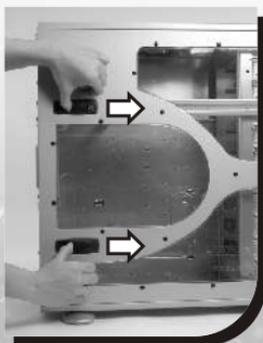
2.1 How to open the side panel



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

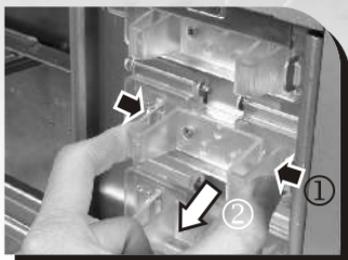


◀ Make sure the side panel lock is opened.

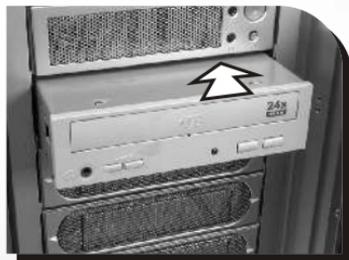


◀ Push the button then swing out the side panel.

2.2 Installing 5.25" Device



↑ Squeeze and pull out-ward the tool-free clip



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



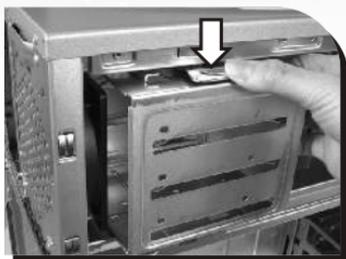
↑ Squeeze and push in-ward the tool-free clip.

↑ Finish installation

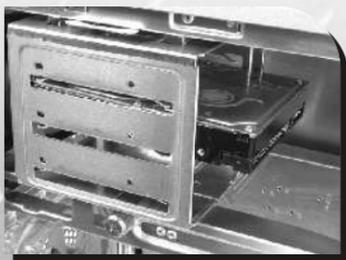
2.3 Installing 3.5" HDD



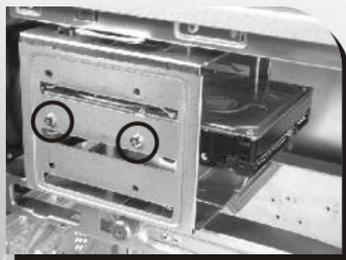
◀ Unscrew the thumb screw for removable HDD cage



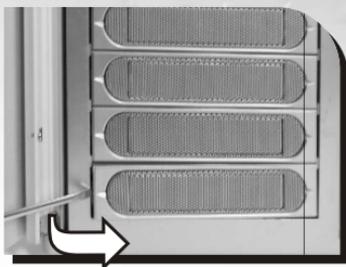
⬆ Push down and hold the metal tab, then pull the HDD cage out-ward to remove from chassis.



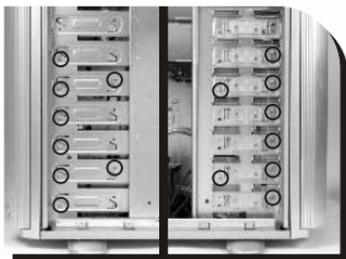
⬆ Secure HDD with Screw



2.4 HDD installation

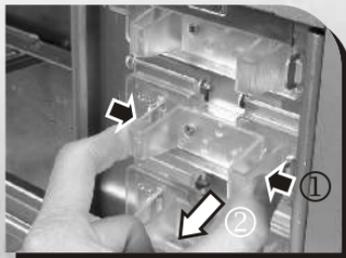


↑ Remove the drive bay covers as shown.

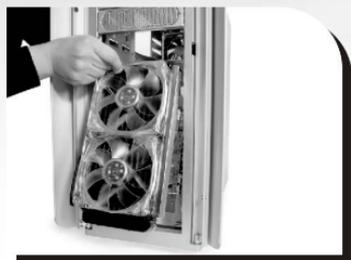


← Remove screws on both side of the cage as shown.

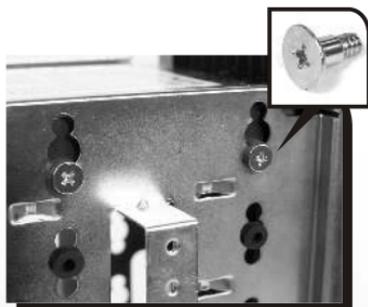
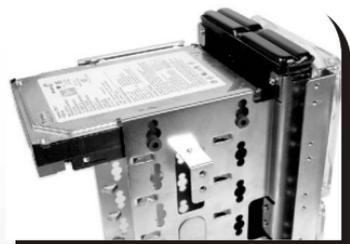
Note:
These screws here are for security consideration during shipment.



↑ Squeeze and pull out-ward the tool-free clips.



↑ Tilt up-ward to remove the HDD cage.



↑ Place HDD into the cage and secure the HDD by screws.

NOTE:

We strongly recommend you to connect the water tube (see P.41) at this stage then install the HDD cage back to the chassis.



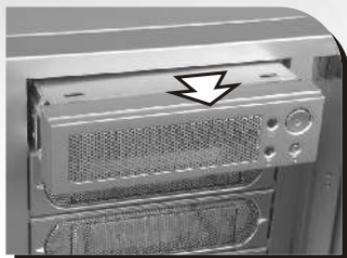
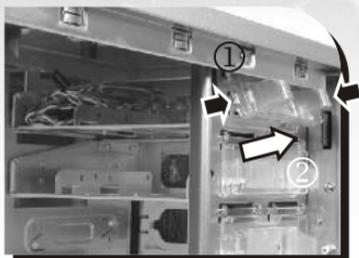
↑ Tilt down-ward to put back the radiator



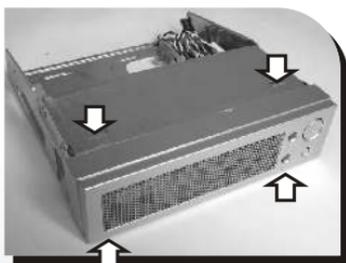
↑ Squeeze and push in-ward the tool-free clips. Place back the drive bay covers.



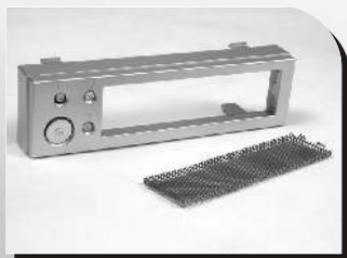
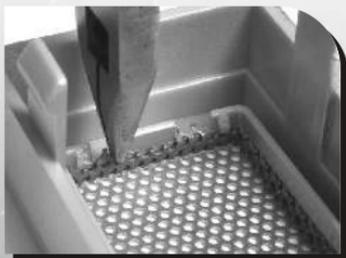
2.5 Installing 3.5" Device to Drive Tray With Power Button



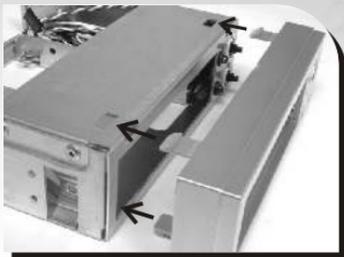
↑ Squeeze and pull out-ward the tool-free clip securing the drive tray with power button. Remove and slide drive bay out-ward to remove.



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



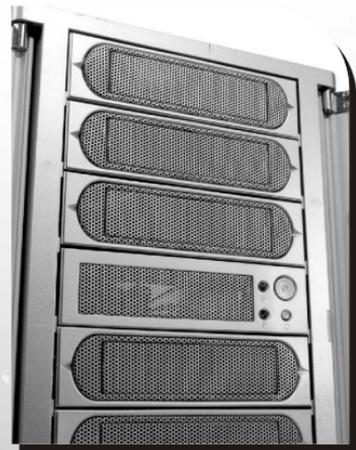
↑ Remove mesh from cover



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

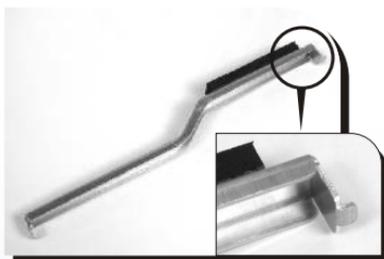


Drive tray with Power Button can be placed at any drive bay desired.

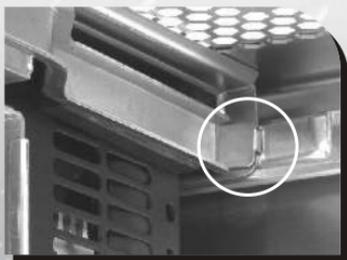
2.6 Installing Power Supply



↑ Install power supply unit as shown in pictures



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

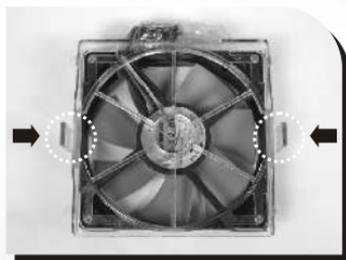


← Swing the supporter to its proper position as shown in photo above

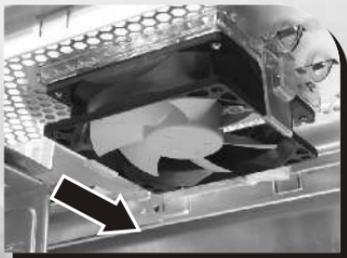


↑ Secure the supporter with screw

2.7 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.

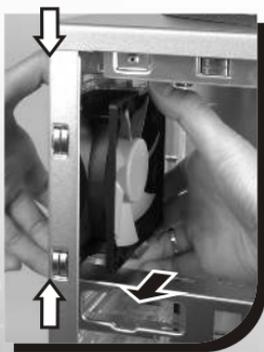
2.8 How to remove the fan & fan holder

12 cm rear fan



↑ Push fan clip up-ward 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

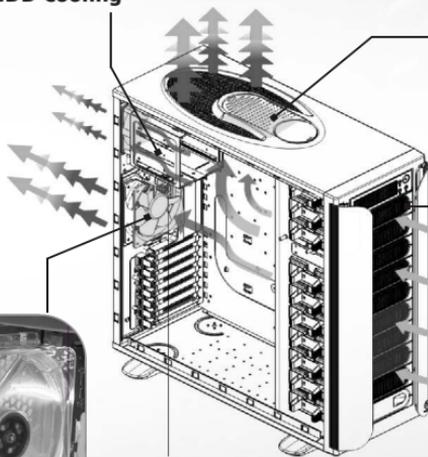
2.9 Air Cooling System



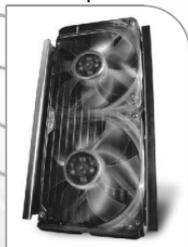
-90 x 90 x 25mm, 1800rpm, 19dBA
-Rear HDD cooling



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



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



-Front (intake) :
Dual 120x120x25 mm
Blue LED fan,
1300rpm, 17dBA

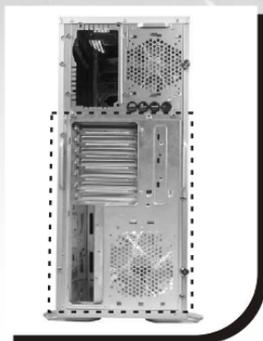


4-pin connector:
connect to PSU



3-pin signal connector:
connect to M/B

2.10 BTX Upgraded Kits



← BTX rear plate



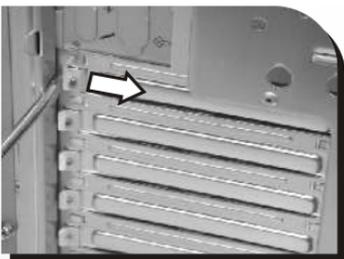
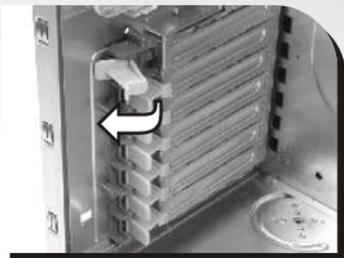
← BTX SRM
(Supported Retention Module)



← BTX upgraded kit box
(P/N: A9358)

2.11 PCI slot tool-free function operation

Open the plastic clip then take off the PCI bracket as follow.



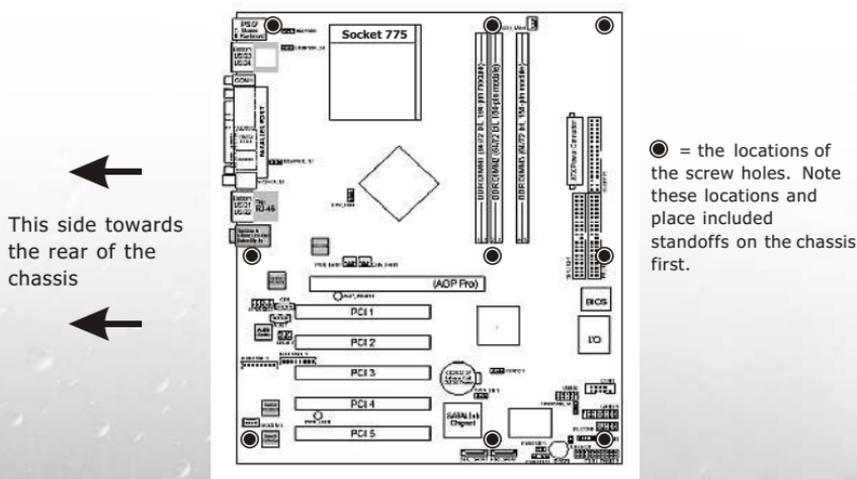
3.1 Motherboard Installation

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 Standard ATX and Micro ATX motherboards.

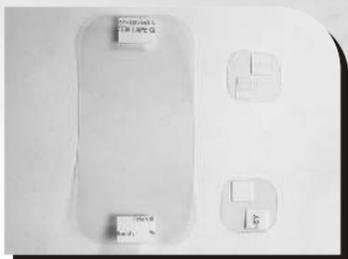
Your motherboard may require a special I/O Panel, which should be included with your motherboard.

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.

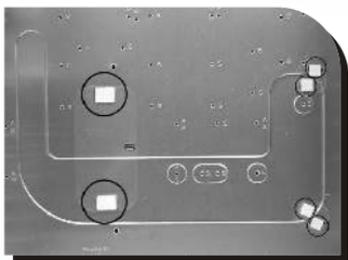


Above illustration is a sample of what the motherboard's layout. For more detail screw hole placement, please refer to your motherboard manual.

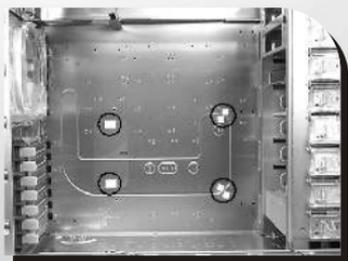


◀ Inside the accessory box, please locate the Mylars (clear plastic films).

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



◀ Remove the adhesive backing and place the Mylars over each locations 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 LCS chassis, these Mylar tapes are not necessary.**

3.2 Case LED connections

On the front of the case, you can find some LEDs and switch leads (POWER SW*1, POWER LED*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 HDD LED connector.

- **RESET SW**

connects to the RSW connector on the motherboard.

- **SPEAKER**

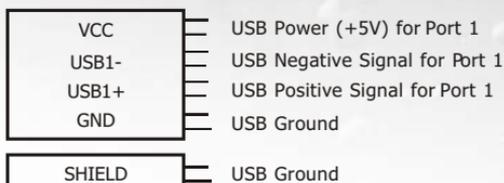
connector: find out the 4-pin labeled SPEAKER on the M/B then connect it.



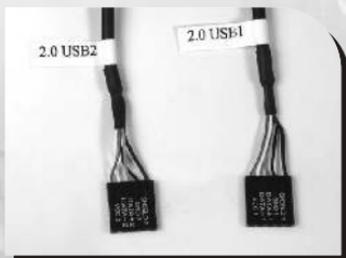
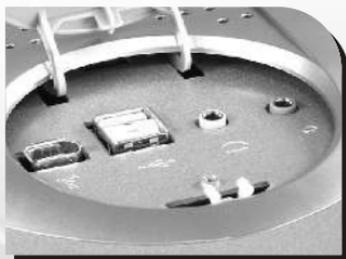
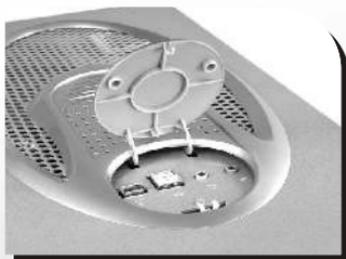
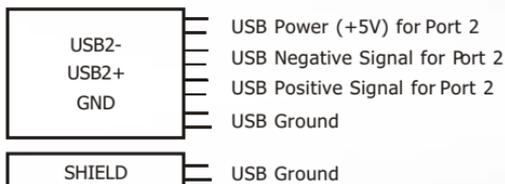
3.3 USB2.0 & IEEE1394 Firewire connection

USB connection

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



USB Function



IEEE1394 Firewire connection

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



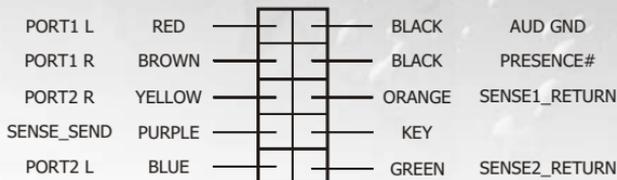
TPA+	BLUE		ORANGE	TPA-
GROUND	BLACK		BLACK	GROUND
TPB+	GREEN		RED	TPB-
VP	WHITE		WHITE	VP
	KEY		BLACK	SHIELD

1394 Function

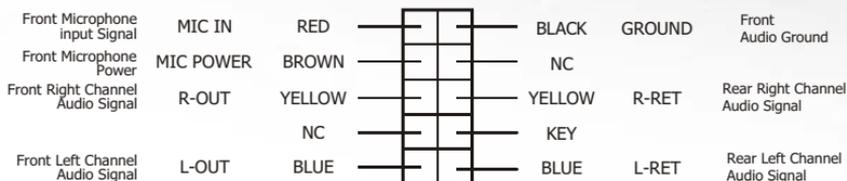
3.4 Audio connections



- Please refer to the following illustration of Audio connector and your motherboard user manual.
- Please select the motherboard which used AC'97 or HD Audio (Azalia), (be aware of that your audio supports AC'97 or HD Audio (Azalia)) or it will damage your device(s).
- On some motherboards, the connectors for Audio are not the same as the drawing below. Please check with your motherboard manual before installing.



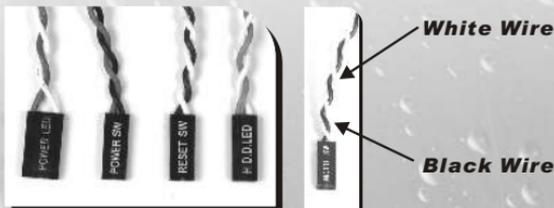
AUDIO AZALIA Function



AUDIO AC'97 Function

3.5 Case open alarm function

- 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)



4.1 Purepower™ power supply (optional)

The Thermaltake Silent™ Purepower specification meets Intel Pentium 4 and AMD K7.K8 ; 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>

Chapter 5 Liquid Cooling Installation

5.1 Specification

Water Block	Dimensions	78(L)x 60(W) x 23.5(H)mm
	Material	Copper & Acrylic
	Connector	3 pin
	LED	Blue LED
Pump	Bearing	Ceramic bearing
	Flow Rate	400 L/ hr
	Rated Voltage	DC 12V
	Connector	4 pin
	LED	Blue LED
	Noise	16 dBA
	Life time	80000 hr (MTBF)
240mm Radiator	Dimensions	240(H) x 120(W) x28(D)mm
	Material	Aluminum
	Fan Dimension	120 x 120 mm
	Fan Speed	1300 RPM
	Max Air Flow	54.4 CFM
	Noise	16 ~ 17 dBA
	Fan Connector	2 pin
Liquid Tank	Dimensions	86(L)x66(W)x110(H)mm
	Capacity	350 c.c
	Quick Install Connector	For 9.5mm ID(3/8") tube
Tube	Dimensions	9.5mm ID(3/8") tube
	Material	Green UV
Coolant	Capacity	500 c.c
	Major Material Ingredient	Ethylene Glycol
Application	CPU	AMD all K8 series
		Intel LGA775
		Intel BTX platform

5.2 Components



↑ P500 Pump & Liquid tank



↑ 120 mm X 240mm Radiator with two 1300RPM 120mm fans



↑ Copper waterblock with blue LED acrylic cover



↑ ID 9.5mm(3/8") UV sensitive Water Tube 400cm x 1



↑ UV sensitive 500 cc Coolant x 2



↑ 2pin to 4pin cable



↑ Clips for BTX motherboard



↑ Clips for ATX motherboard
- Intel P4 LGA 775
- AMD K8



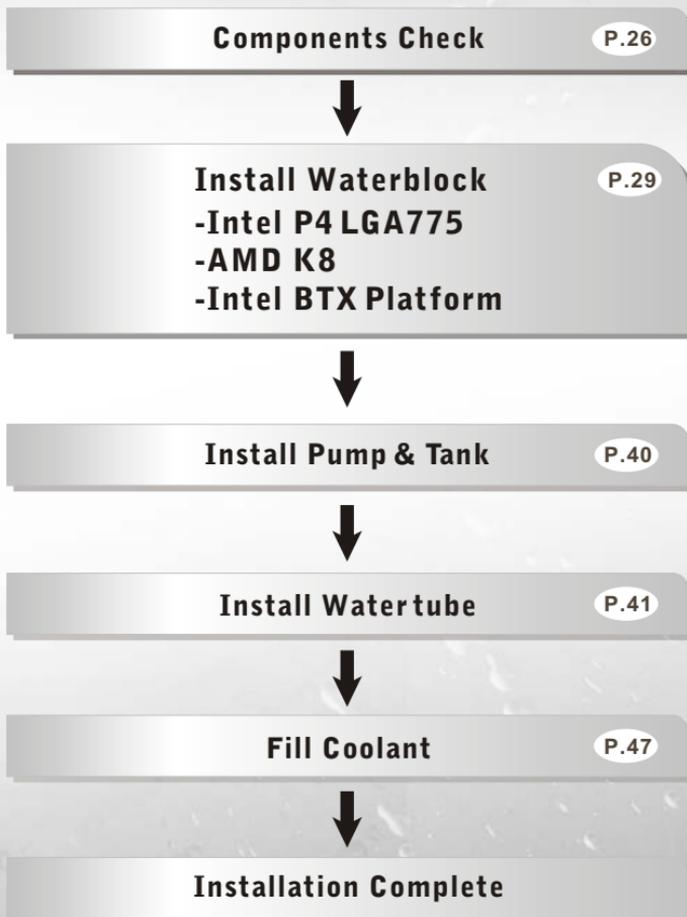
Thermal compound



Screws for pump

5.3 Installation steps

In order to ensure convenience and safety, following the installation procedure below is strongly recommended.

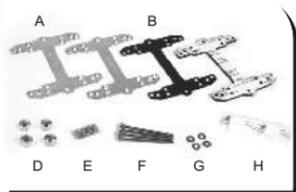


5.4 Install Waterblock

5.4.1 Clip the Waterblock on CPU (Intel P4 LGA775)

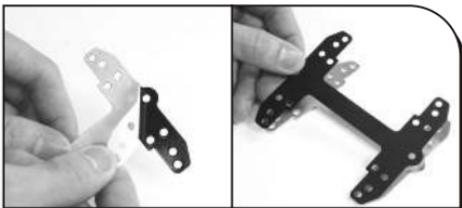
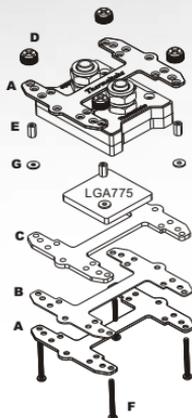


Intel LGA 775
Motherboard

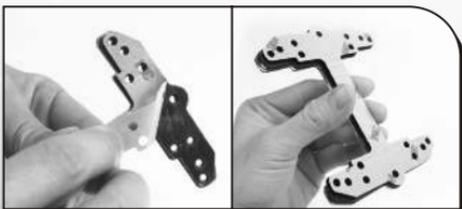


Clips for LGA 775

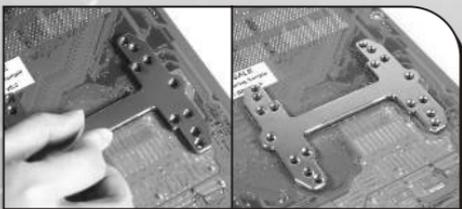
- A. Metal H-type clip
- B. Thin insulator
- C. Thick insulator
- D. Thumb nuts
- E. Stand Off
- F. Screws
- G. Washers
- H. Thermal compound



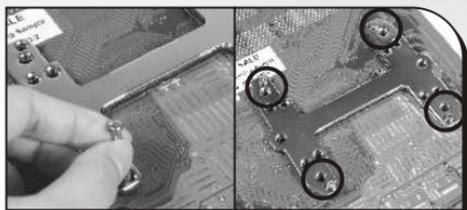
- ◀ Tear off the tape on the back of the thin insulator (B) and place it on the metal H-type clip(A).



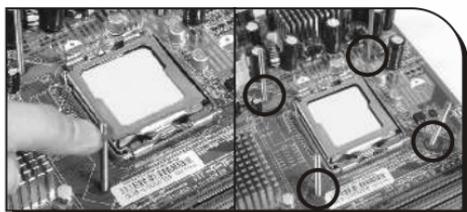
- ◀ Combine the mylar (thin insulator) and the foam (thick insulator) using the adhesive. Stick the metal H-type clip(A) with the insulators (BC). Tear off the protective layer to adhere it onto the motherboard.



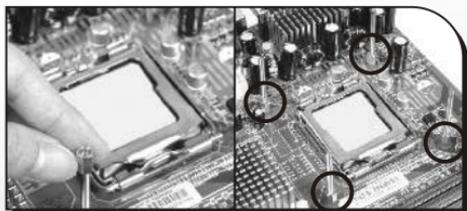
- ◀ Attach H-type clips(including ABC) on the back side of motherboard.



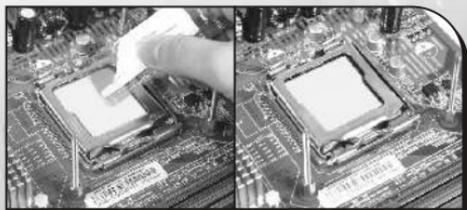
◀ Insert the screws (F) into the four holes as shown in the photo.



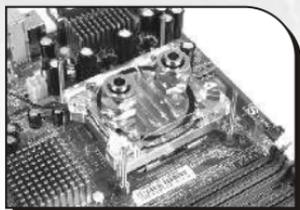
◀ Put the washers(G) along the screws to prevent the electric current.



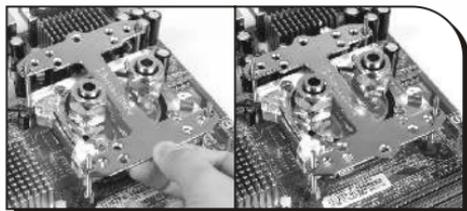
◀ Put the stand offs(E) along the screws to fix the screws on the motherboard.



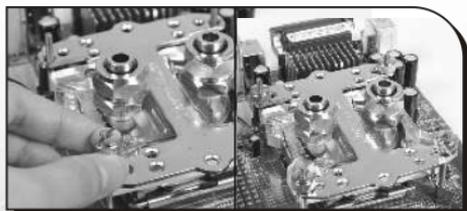
◀ Apply a thin layer of grease onto the processor.



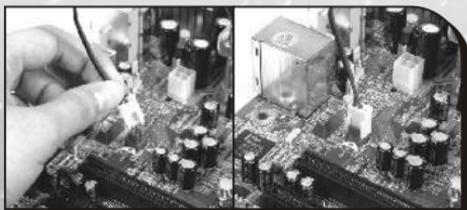
← Place the waterblock on the processor.



← Put the H-clip on the Waterblock.

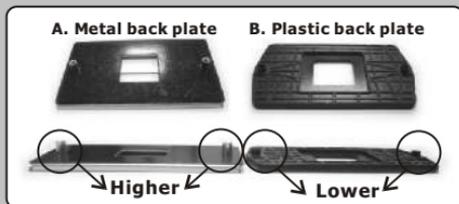


← Tighten the Thumb nuts(D) to the screws as shown to fix the waterblock on motherboard.



← Plug the LED power into the 3-pin power connector on the motherboard.

5.4.2 Clip the Waterblock on CPU (AMD K8)



Check Your Back Plate!

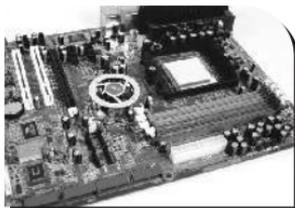
If your Motherboard includes:

-Metal back plate-

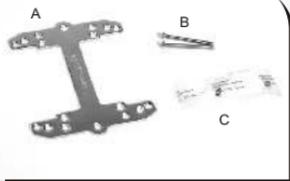
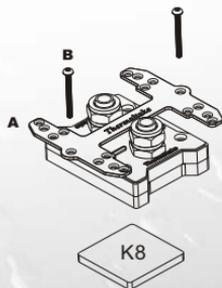
higher mounting holes, the installation is as same as the K8 Standard installation(A).

-Plastic back plate (the ASUS motherboards, for example)-
lower mounting holes, the installation is as following(B).

(A) Install by back plate for motherboard (Standard installation)



AMD K8
Motherboard

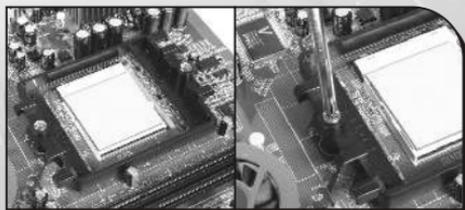


Clips for K8

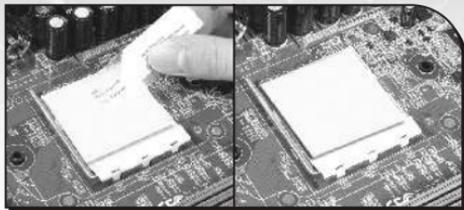
A. Metal H-type clip

B. Screws

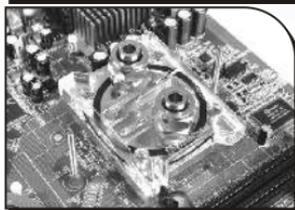
C. Thermal compound



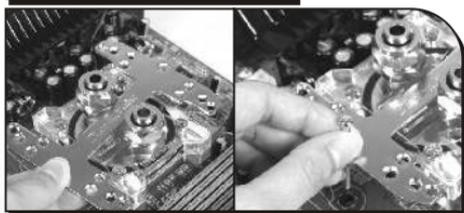
Remove the retention frame from motherboard.



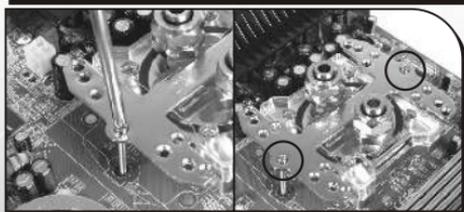
◀ Apply a thin layer of grease onto the processor.



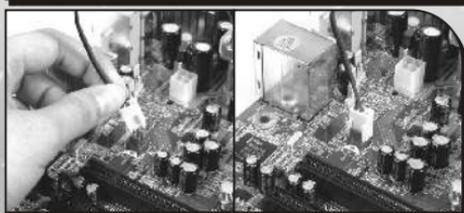
◀ Place the waterblock on the processor.



◀ Put the H-clip on the Waterblock and insert screws(B) as shown in the photo.

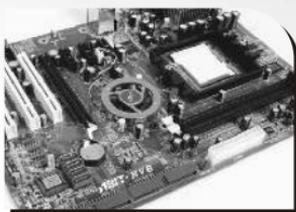


◀ Secure the waterblock onto the motherboard.

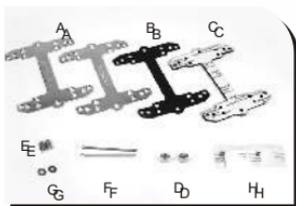


◀ Plug the LED power into the 3-pin power connector on the motherboard.

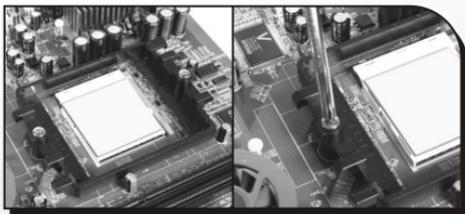
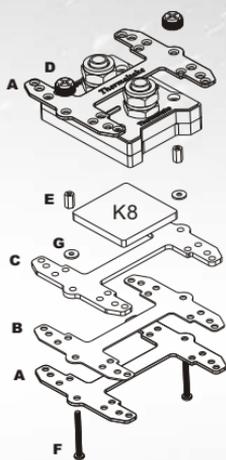
(B) Install by clips bundled in package



AMD K8
Motherboard



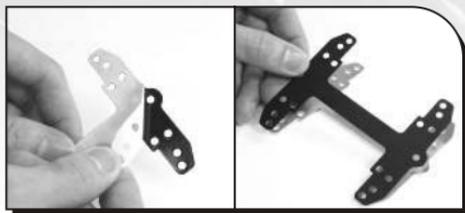
- A. Metal H-type clip
- B. Thin insulator
- C. Thick insulator
- D. Thumb nuts
- E. Stand Offs
- F. Screws
- G. Washers
- H. Thermal compound



Remove the Retention
Module from the motherboard.



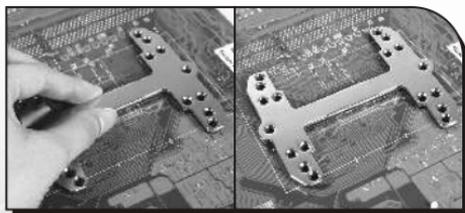
Remove the back plate on
back side of motherboard.



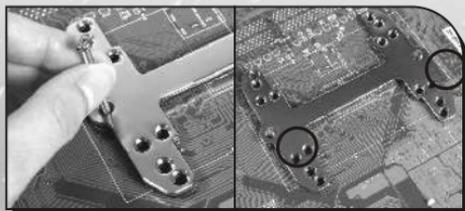
◀ Tear off the tape on the back of the thin insulator (B) and place it on the metal H-type clip(A).



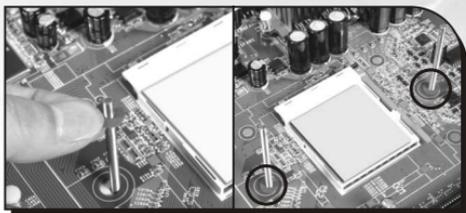
◀ Combine the mylar (thin insulator) and the foam (thick insulator) using the adhesive. Stick the metal H-type clip(A) with the insulators (BC). Tear off the protective layer to adhere it onto the motherboard.



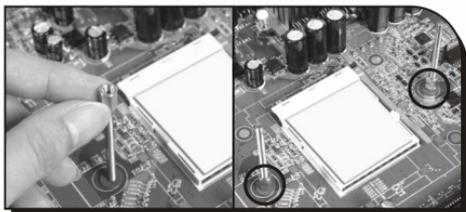
◀ Attach H-type clips(including ABC) on the back side of motherboard.



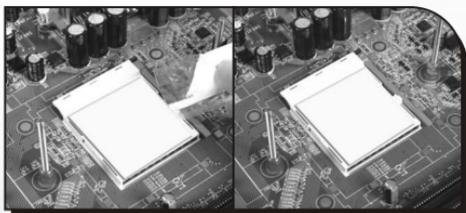
◀ Insert the screws(F) into the two holes as shown in the photo.



◀ Put the washer(G) along the screws to prevent the electric current.



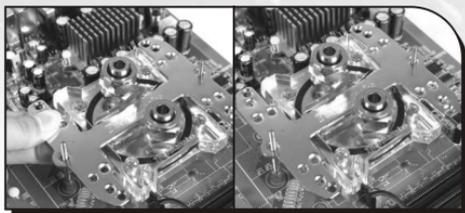
◀ Put the stand offs(E) along the screws to fix the screws on the motherboard.



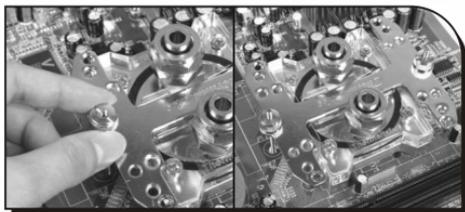
◀ Apply a thin layer of grease onto the processor.



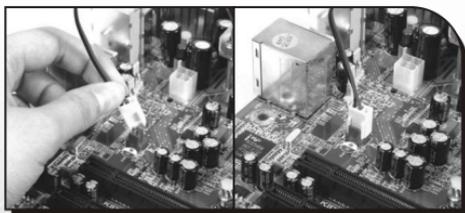
◀ Place the waterblock on the processor.



◀ Put the H-clip on the Waterblock.



◀ Tighten the thumb nuts(D) to the screws as shown to fix the waterblock on motherboard.

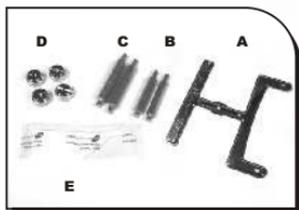
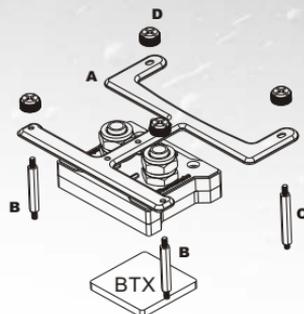


◀ Plug the LED power into the 3-pin power connector on the motherboard.

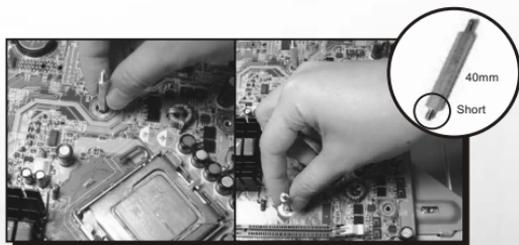
5.4.3 Clip the Waterblock on CPU (Intel BTX Platform)



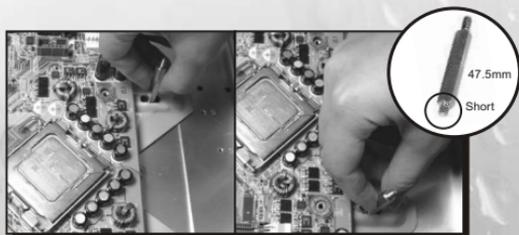
Intel LGA 775
BTX Motherboard



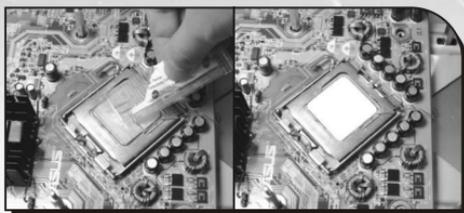
A. Metal H-type clip
B. 40mm Stand Offs
C. 47.5mm Stand Offs
D. Thumb nuts
E. Thermal compound



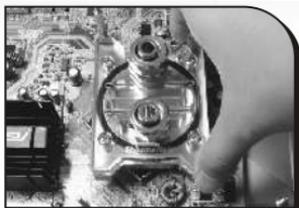
← Screws the 40mm stand offs (B) on the Motherboard.



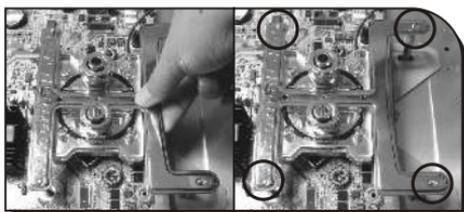
← Screws the 47.5mm stand offs (C) on the BTX SRM of case as shown.



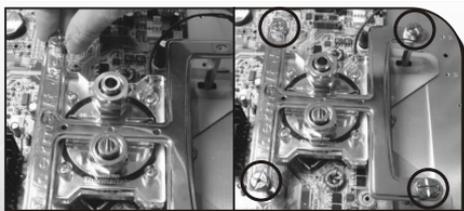
◀ Apply a thin layer of grease onto the processor.



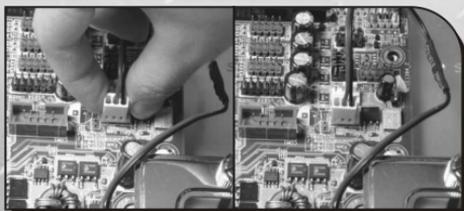
◀ Place the waterblock on the processor.



◀ Put the H-clip on the Waterblock.



◀ Tighten the thumb nuts(D) to the stand offs as shown to fix the waterblock on motherboard.



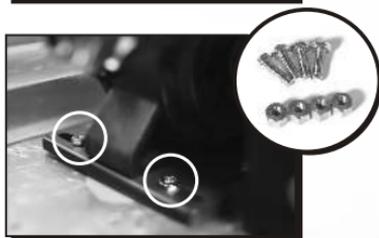
◀ Plug the LED power into the 3-pin power connector on the motherboard.

5.5 Install Pump & Tank

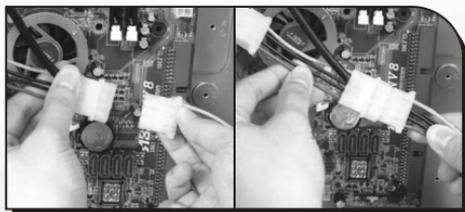
If there are mounting holes on the bottom of your case, you may proceed with the following steps to install the pump.



◀ Finding the mounting holes to fit the stand of pump.



◀ Insert the screws through the holes of the stand as shown. Then, tighten the nuts to secure the pump.

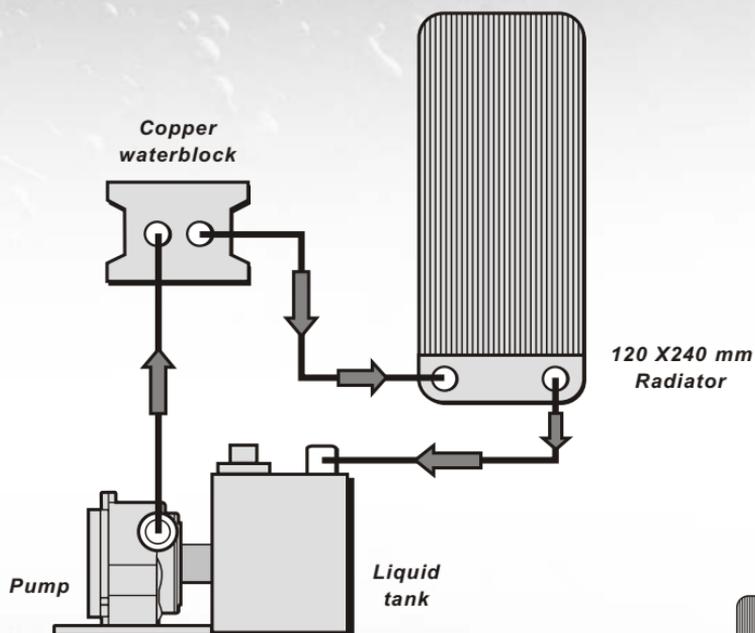


◀ Connect the 4-pin connector of pump to power supply.

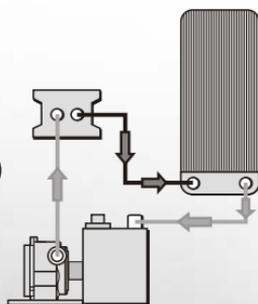


◀ Installation complete.

5.6 Install Water tube



Connect Waterblock to Radiator



← Unscrew the nut of 24cm radiator.



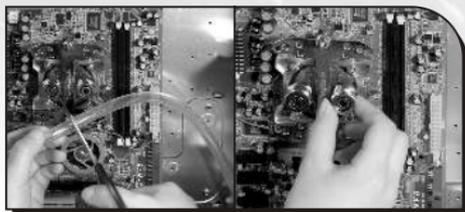
← Insert the tube through the nut.



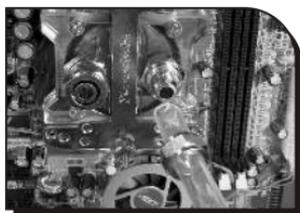
← Tighten the nut on 24cm radiator.



← Repeat the installation steps for the other side shown on photo.



◀ Please measure and cut the tube, then unscrew the nut of waterblock.

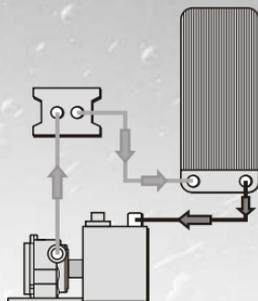


◀ Insert a tube through the nut of waterblock.



◀ Tighten the nut on the waterblock.

Connect Radiator to Tank



◀ Secure the tube and the nut on 24cm radiator. Please measure and cut the tube, then unscrew the nut of tank.

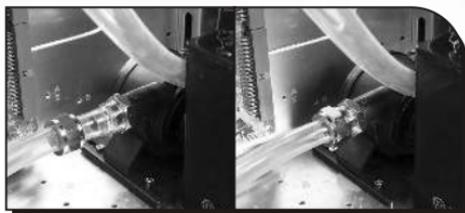
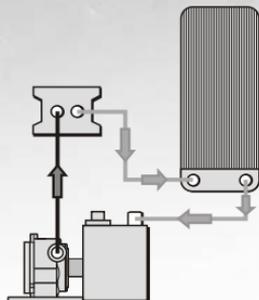


◀ Insert the tube through the nut.



◀ Tighten the nut as shown.

Connect Pump to Waterblock



◀ Unscrew the nut of pump and insert a new tube through the nut. Then tighten it.

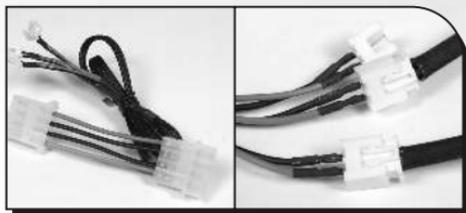


◀ Unscrew the nut of waterblock and insert the tube from pump through the nut. Then tighten it.

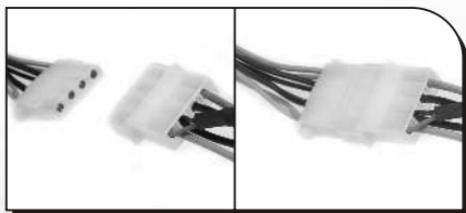


◀ Installation complete.

5.7 Connect the Front Fan to Power Supply

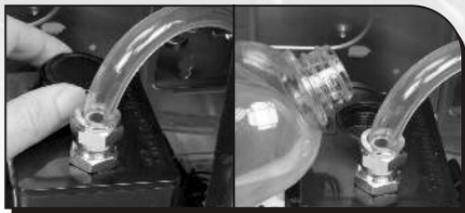


↑ Find the included 2-pin to 4-pin cable. Then, connect the front 120mm fans to the 2-pin connector as shown.



↑ Connect the 4-pin connector to power supply unit.

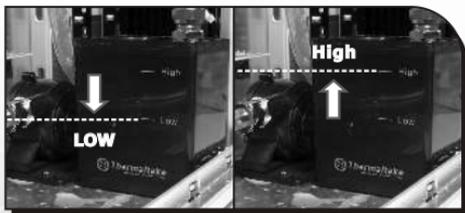
5.8 Fill Coolant



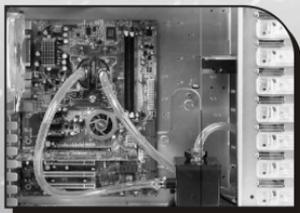
◀ Open the cover of liquid tank, and fill the tank up with coolant.



◀ Turn on the PC power switch.



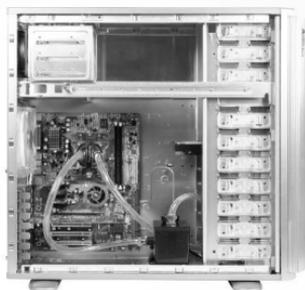
◀ Liquid level will decrease when you power on the system, please keep filling coolant until the tank is filled up.



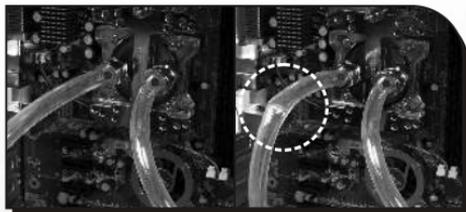
◀ Please make sure liquid is flowing continuously and smoothly within the tube.



← Close the cover of liquid tank.



← Installation complete.



O

X



Note:

1. Please make sure there is no air inside the tube when you first time power on the system.
2. If there are bubbles within the tube when operating. You may tap the tubes a few times to remove the bubbles.
3. Please make sure the water tube is not bending when close the side panel.

