Manuals+ — User Manuals Simplified.

ZALMAN ALPHA24 Alpha Series CPU Liquid Cooler User Manual

Contents

ZALMAN ALPHA24 Alpha Series CPU Liquid Cooler

Latest Intel & AMD Compatibility
Intel Socket : LGA2066/2011-V3/2011/1700/1200/115X CPUs
AMD Socket : AM4/AM3 CPUs

- To ensure safe and easy installation, please read the following precaution.
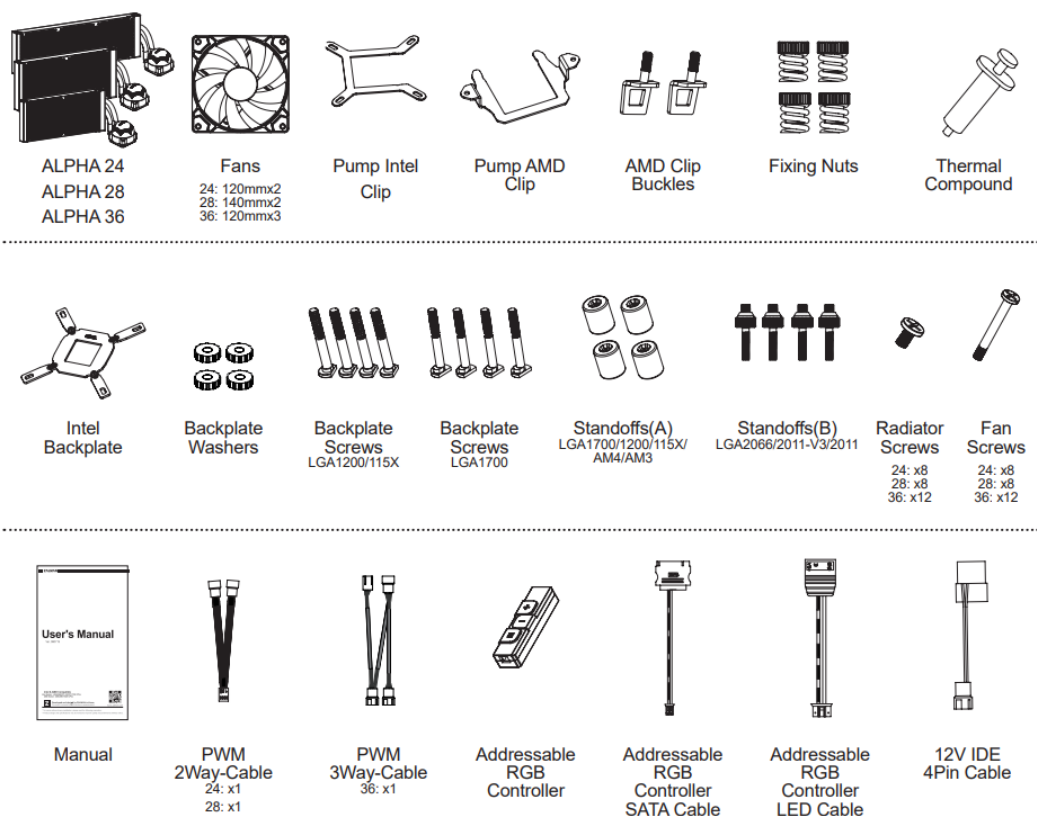- Product design and specifications may be revised to improve quality and performance without notice.1

Precautions

- Avoid tempering with objects or hands into the fan while it is in operation to prevent product damage and injuries.
- Do not eat the thermal grease, and avoid its contact with skin and eyes. If contact is made with skin, wash off with water. If irritation persists, seek medical attention.
- To prevent possible injuries, gloves must be worn while handling this product.
- Excessive force exerted on the fan may cause damage to the fan and/or system.
- Use and keep product away from reach of children.
- Check the components list and condition of the product before installation. If any problem is found, contact the retailer to obtain a replacement.
- Our company assumes no responsibility for any problem that occurs due to the use of the product for purposes other than its designated purposes and/or the carelessness of the consumer.
- Zalman Tech Co., Ltd. Is not responsible for any damages due to overclocking CPU such as, CPU and system components.
- During transportation of the system, the cooler must be removed. Zalman Tech Co., Ltd. is not responsible for any damages that occur during the transport of a system.
- Product design and specifications may be changed to improve quality and performance without notice.
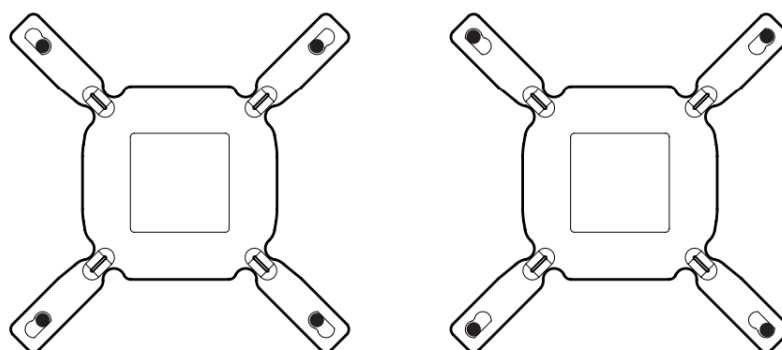
Specifications

Model	Alpha 24/28/36		
Pump	Materials	ABS, PC, PPS, Pure Copper		
	Dimensions	68(L) x 68(W) x 62(H)mm		
	Speed	3,200RPM±10%		
	Bearing Type	Ceramic Bearing		
	Water Flow	0.83L/min		
	Control Method	LED : Addressable RGB (3-Pin 5V)		
Radiator	Material	Pure Aluminum		
		Alpha 24	**Alpha 28**	**Alpha 36**
	Dimensions	120 x 276 x 27(H)mm	140 x 316 x 27(H)mm	120 x 397 x 27(H)mm
Fan	Dimensions	120 x 120 x 25(H)mm	140 x 140 x 25(H)mm	120 x 120 x 25(H)mm
	Bearing Type	Long Life Bearing		
	Speed	500~1800±200RPM	500~1600±200RPM	500~1800±200RPM
	Max. Noise Level	33dB(A)±10%	34dB(A)±10%	33dB(A)±10%
	Max. Air Flow	71.1CFM±10%	83.07CFM±10%	71.1CFM±10%
	Max. Static Pressure	1.9mmH$_2$O±10%	1.7mmH$_2$O±10%	1.9mmH$_2$O±10%
	Control Method	PWM Control / LED : Addressable RGB		
	Life Span	40,000 hours		
	Rated Volatage	12V / LED : 5V		
	Connector Type	4-Pin / LED : 3-Pin		

Components

ALPHA 24 ALPHA 28 ALPHA 36	Fans 24: 120mmx2 28: 140mmx2 36: 120mmx3	Pump Intel Clip	Pump AMD Clip	AMD Clip Buckles	Fixing Nuts	Thermal Compound

|						
Intel Backplate	Backplate Washers	Backplate Screws LGA1200/115X	Backplate Screws LGA1700	Standoffs(A) LGA1700/1200/115X/ AM4/AM3	Standoffs(B) LGA2066/2011-V3/2011	Radiator Screws 24: x8 28: x8 36: x12

					Fan Screws 24: x8 28: x8 36: x12

Manual	PWM 2Way-Cable 24: x1 28: x1	PWM 3Way-Cable 36: x1	Addressable RGB Controller	Addressable RGB Controller SATA Cable	Addressable RGB Controller LED Cable	12V IDE 4Pin Cable

INTEL, AMD Backplate

Screws Position

1. LGA1200/115X

2. LGA1700

INTEL, AMD Clip

Intel

Pump Intel Clip

AMD

Pump AMD Clip   AMD Clip Buckles   Fixing Nuts

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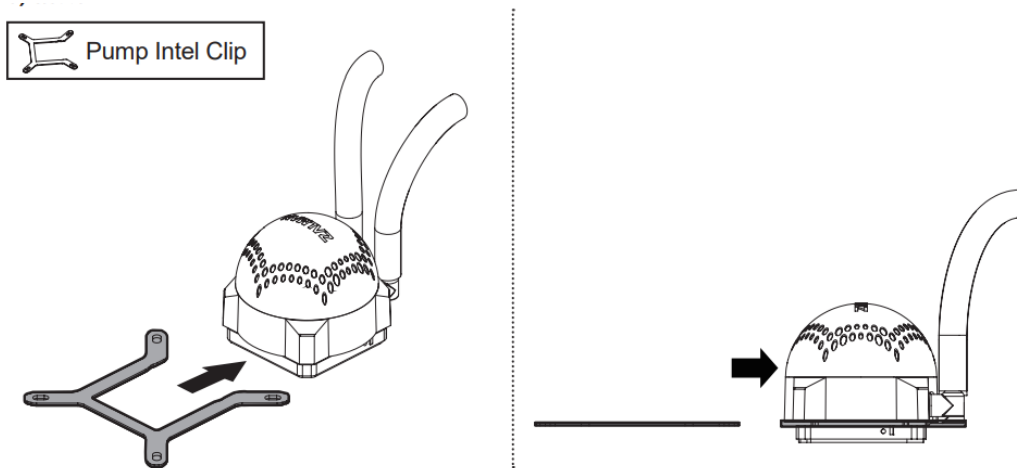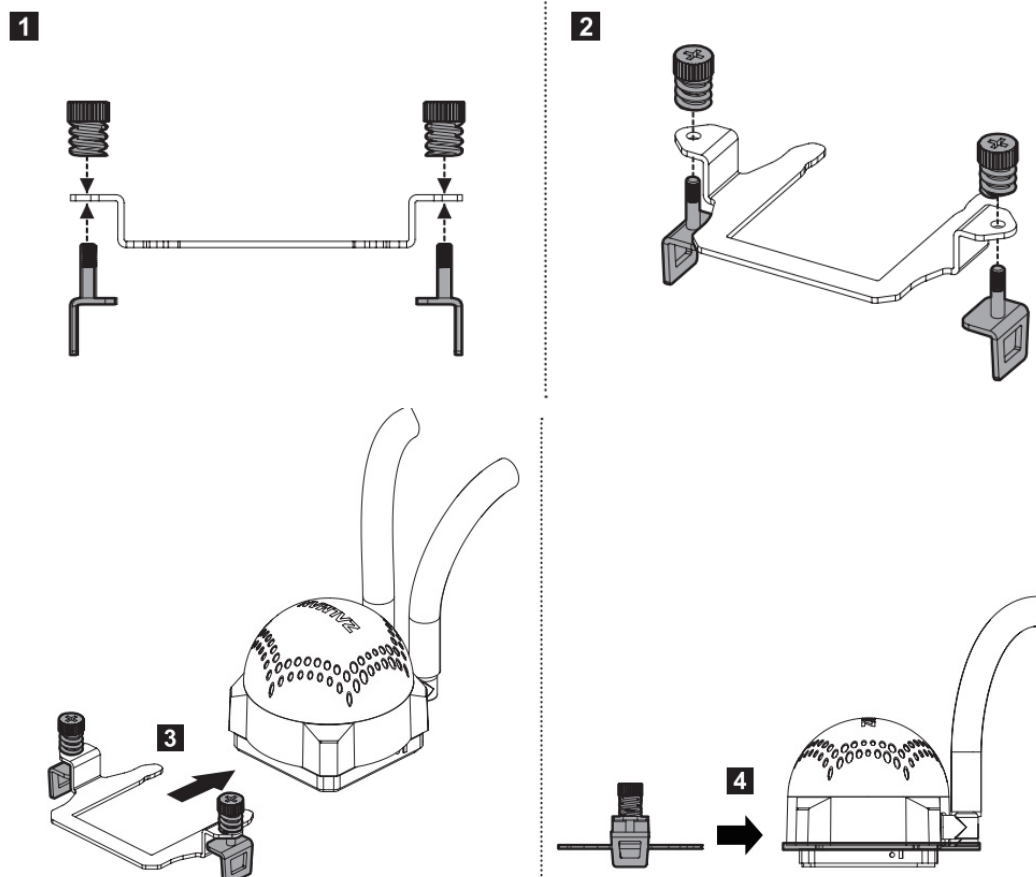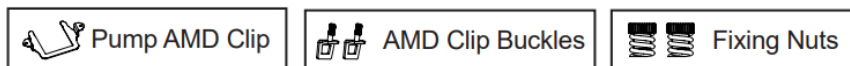
Intel Users

LGA1200/115X

Intel Backplate	Backplate Washers	Backplate Screws

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3 Standoffs(A)

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M/B
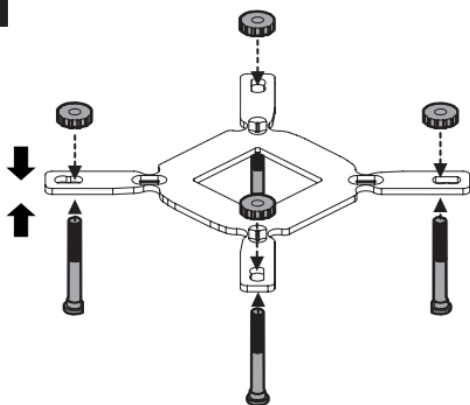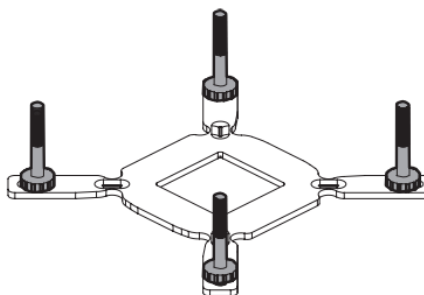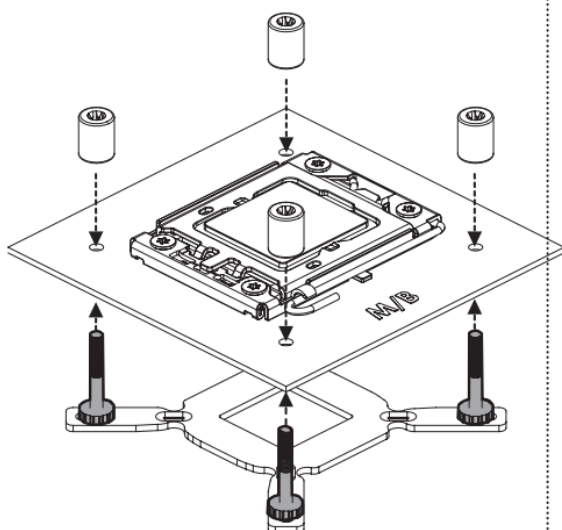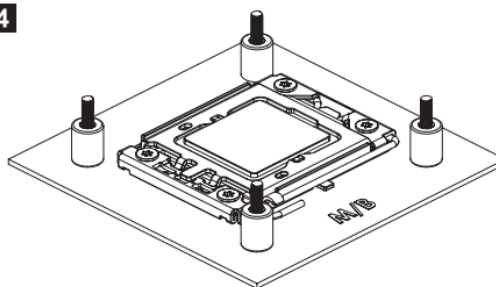
5 Thermal Compound
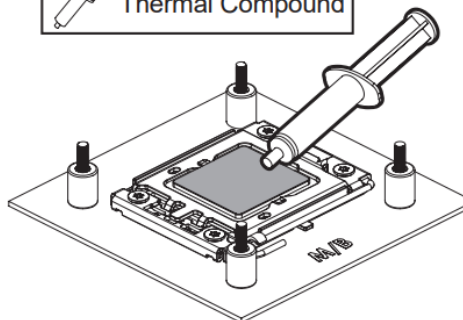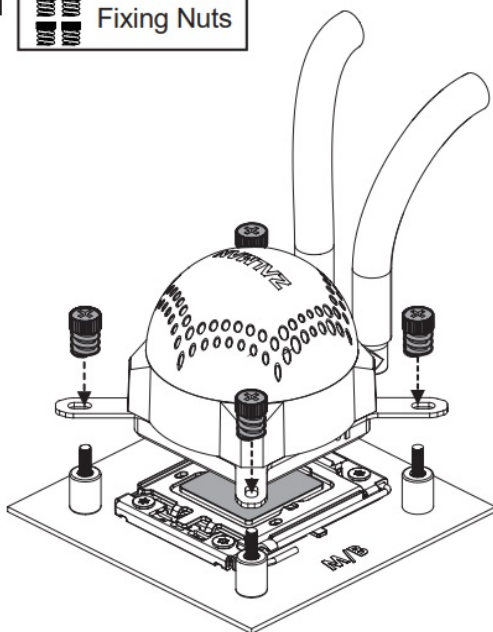
M/B

6 Fixing Nuts

M/B

7

M/B

LGA1700

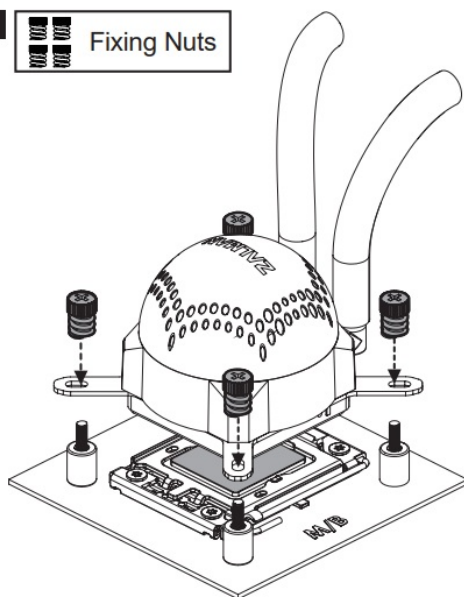|				
Intel Backplate		Backplate Washers		Backplate Screws

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4 Standoffs(A)

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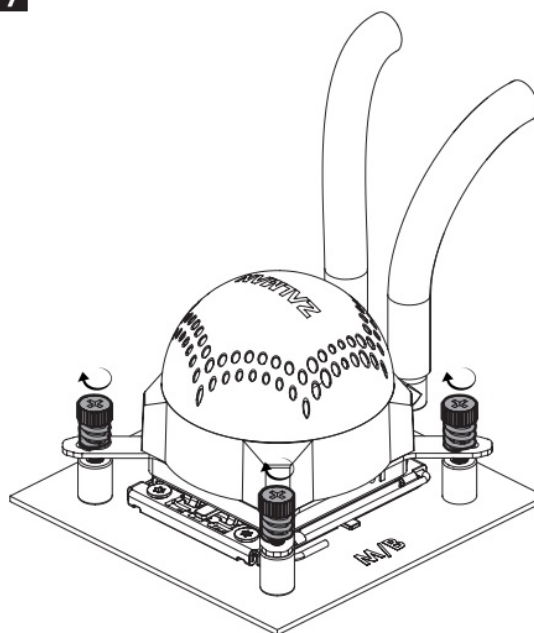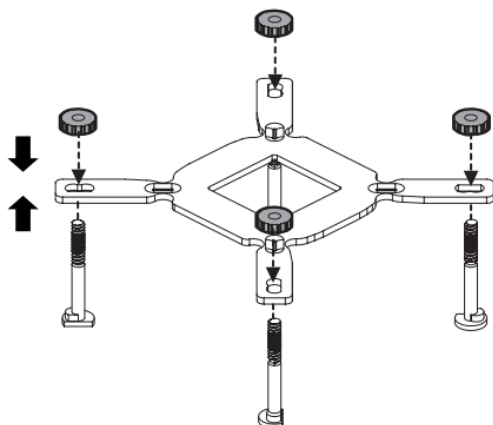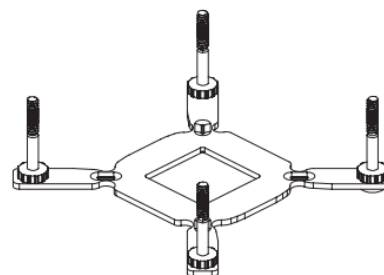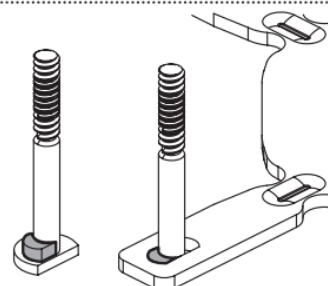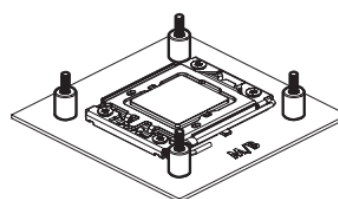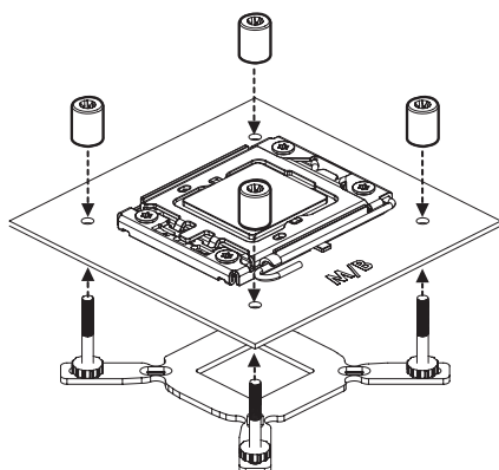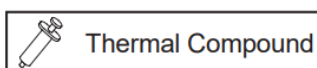
6 Thermal Compound

7 Fixing Nuts

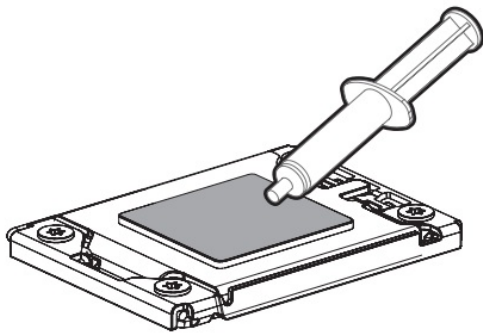

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LGA2066/2011-V3/2011
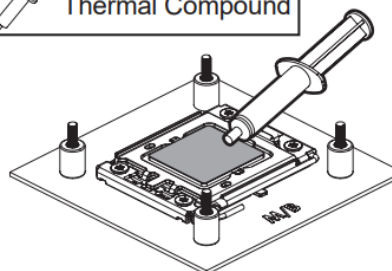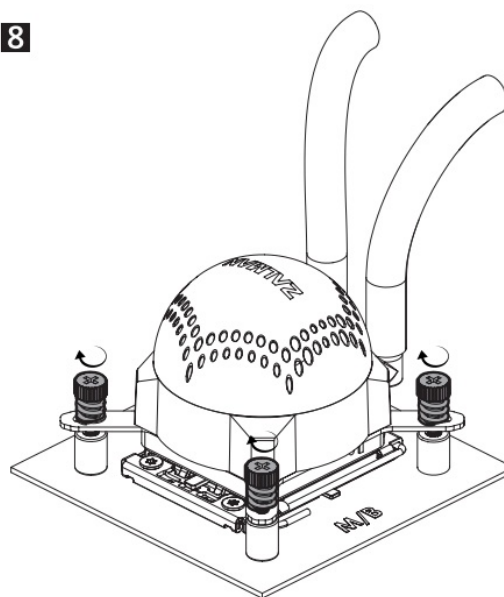
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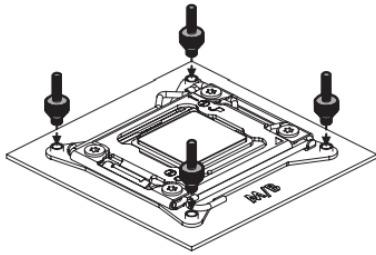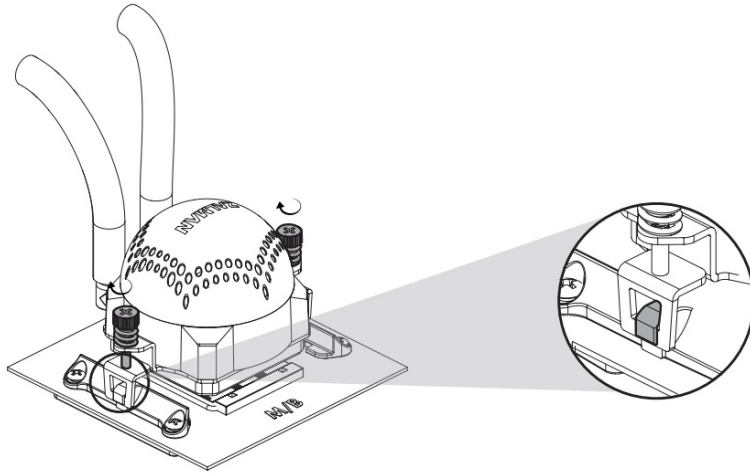
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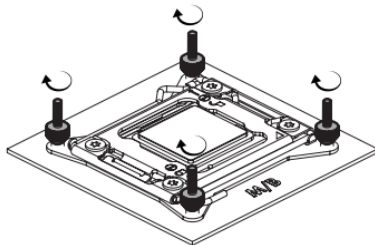
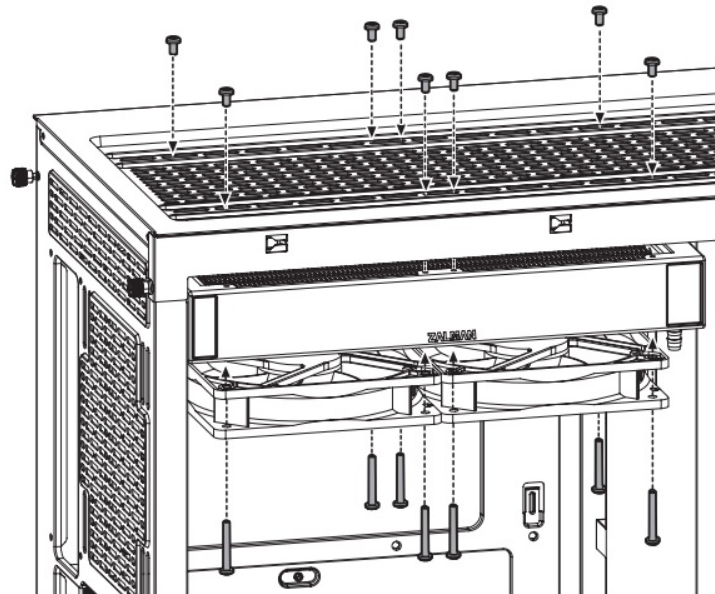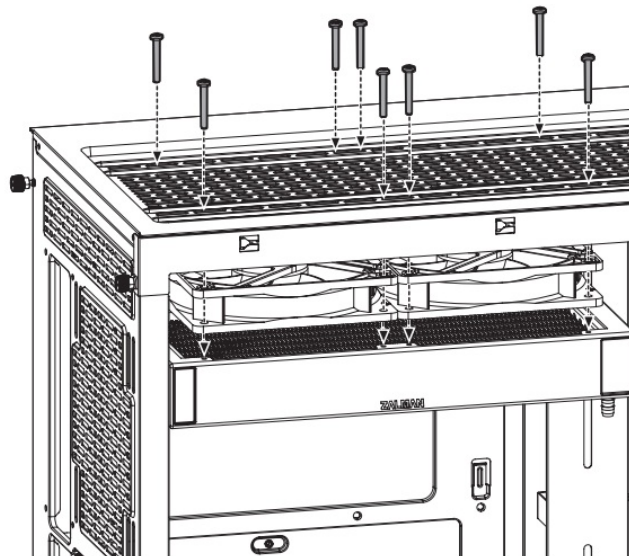**3** Thermal Compound
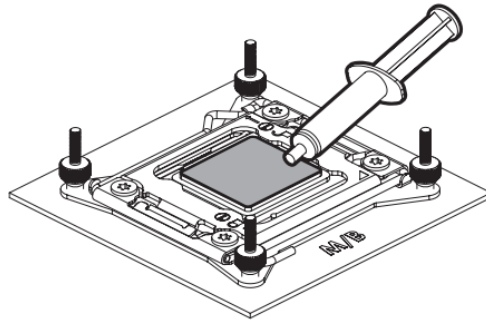
AMD Users

AM4/AM3

Thermal Compound

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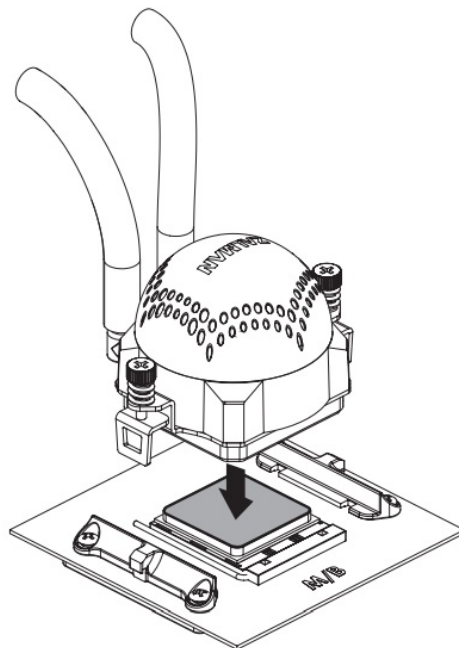
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Fan Screws	Radiator Screws

Fan Screws

Cable Connection

Connection to other motherboards

ALPHA Pump

Fan connector for mainboard system (4-Pin, 12V)

Motherboard

ALPHA 24/28

ALPHA Fan

A PWM Fan Cable (A)

B PWM Fan Cable (B)

C PWM 2Way Cable

Motherboard

ALPHA 36

ALPHA Fan

A PWM Fan Cable (A)

B PWM Fan Cable (B)

C PWM Fan Cable (C)

D PWM 3Way Cable

Motherboard

ALPHA Pump & Fan

A 5V Addressable RGB connector for mainboard (3-Pin, 5V)

B 5V Addressable RGB extentsion connector (3-Pin, 5V)

Motherboard

Controller Cable

SATA Power Connector

Addressable RGB Controller

A LED Indicator

B Mode Control

C LED Control

Fan Specifications

Model	ALPHA 24/36		
Dimensions	120 x 120 x 25(H)mm	Bearing Type	Long Life Bearing
Speed	500 ~ 1,800 RPM±200RPM		
Max Noise Level	33dB(A)±10%		
Max Air Flow	71.1 CFM±10%	Max Air Pressure	1.9mmH$_2$O±10%
Control Method	PWM Control	LED	Addressable RGB
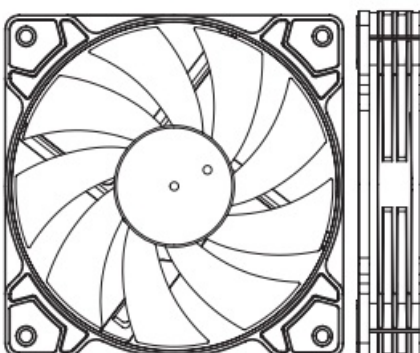
Model	ALPHA 28		
Dimensions	140 x 140 x 25(H)mm	Bearing Type	Long Life Bearing
Speed	500 ~ 1,600 RPM±200RPM		
Max Noise Level	34dB(A)±10%		
Max Air Flow	83.07 CFM±10%	Max Air Pressure	1.7mmH$_2$O±10%
Control Method	PWM Control	LED	Addressable RGB

QR SCAN

Certification: This mark, designed by Zalman, indicates product compliance with the European Union's RoHS (Restriction of Hazardous Substances) Directive.
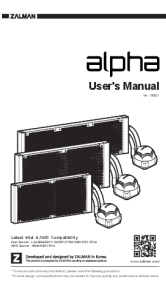
Disposal of Old Electrical & Electronic Equipment
(Applicable in the European Union and other European countries with separate collection systems)

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Documents / Resources

ZALMAN ALPHA24 Alpha Series CPU Liquid Cooler [pdf] User Manual
ALPHA24, Alpha Series, CPU Liquid Cooler, Alpha Series CPU Liquid Cooler, ALPHA24 CPU Liquid Cooler, ALPHA24 Alpha Series CPU Liquid Cooler

References

- **Z zalman.com**