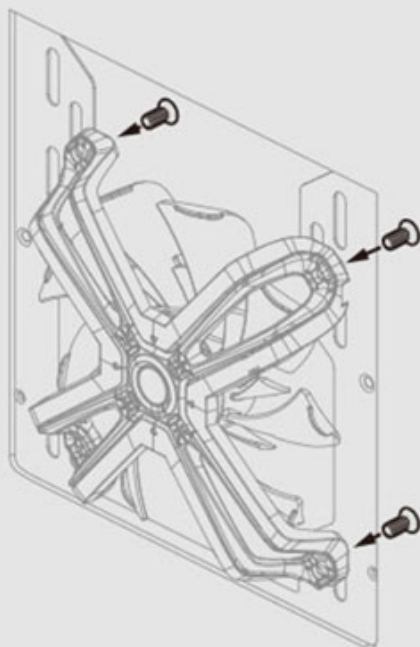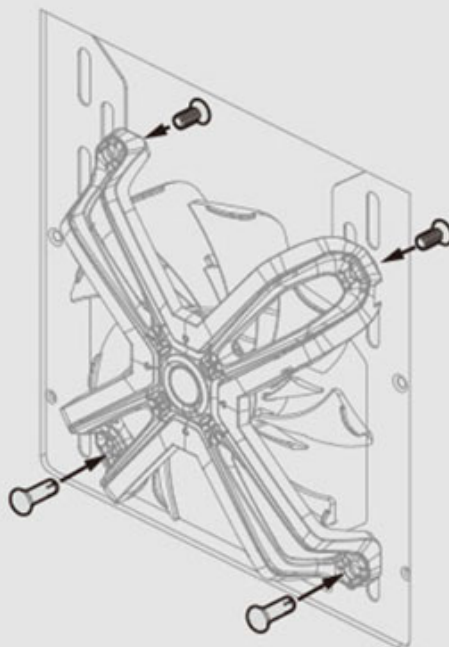# Installation Guide

1) Screw bolt installation

Please use provided screws(Four) to install the fan.

2) Push-Pin installation

Please use provided push-pin to install the fan if your case's HDD rack(Bottom) is causing interference of installation by screw.
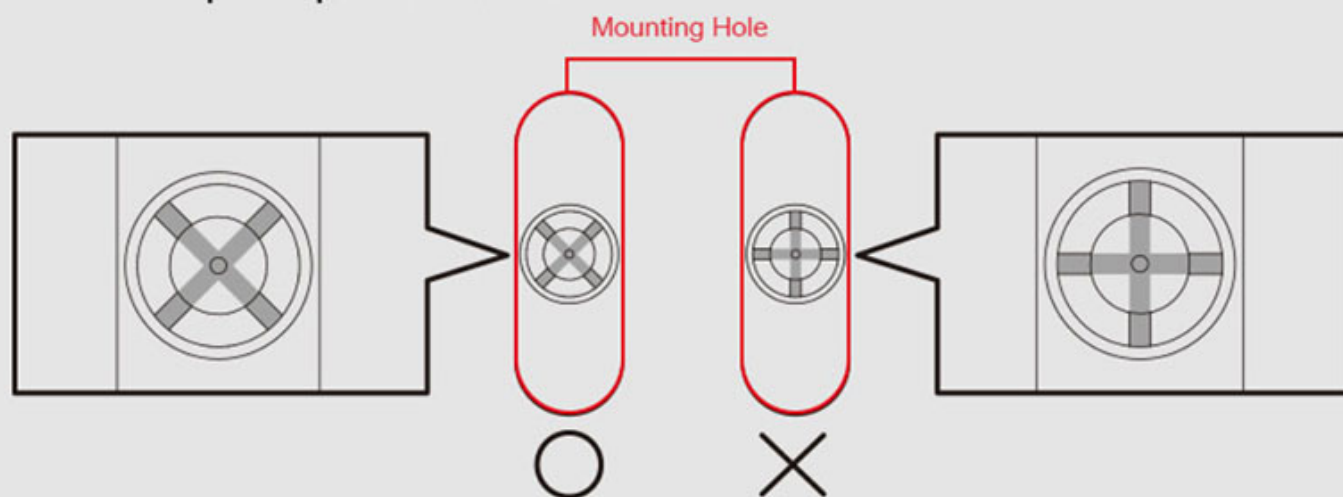

※ **Precautions for push-pin fastening**
Press the push-pin until it is fully engaged.
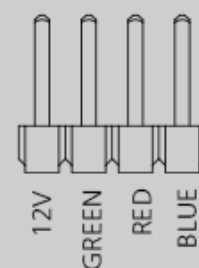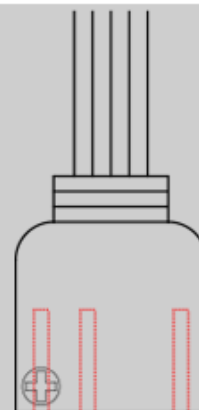

Notice for push-pin direction

Mounting Hole

If the case fan mounting hole for the push-pin is a streamlined hole, install diagonally as shown in the picture.

ARGB 3-PIN CONNECTOR

5V   DATA   GND

[O]

Please make sure of the Pin qty and
the direction of the Addressable RGB connector
before installation.

12V   GREEN   RED   BLUE

[X]

Caution:
If Addressable 3 Pin connects to 12V header
instead of 5V header improperly, It may cause
fatal damages to the product by the overvoltage.

Components

SF120 Fan x 1

Gigabyte M/B Convertor x 1

Low Noise Connector x 1

Push-Pins(PC Case) x 4

Screw Bolts x 4

Manual & Warrnaty x 1

Specifications

Model	Bearing Type	Dimensions
ZM-SF120	FDB Bearing	120 x 120 x 26(H) mm

Weight	Rating Voltage	Rating Current
100g	Fan : 12 V DC LED : 5 V DC	Fan : 200mA LED : 300mA

Fan Speed	Max Airflow	Max Noise Level
800~1,500 RPM ±10%	54 CFM	28.0 dB(A) ±10%

Life Span	Connector	Cable Length
100,000hrs	4-Pin(PWM), 3-Pin(Addressable)	Fan : 700mm LED : 700mm

Components

Gigabyte M/B Convertor x 1, Low Noise Connector x 1,
Push-Pins x 4(for PC Case), Screw Bolts x 4

※ The length & dimension can be differ depend on measuring method.

ZALMAN
www.zalman.com

RoHS CE NPS

Developed and designed by ZALMAN in Korea.
This product is protected by ZALMAN's pending or registered patents.