

# Manual Pro2 Series - How to Install Extruder Side Cooling Fan -v1.0

\* The steps of replacing both sides of cooling fans are similar with each other. Here we use the right side as reference.

## 1. Preparation

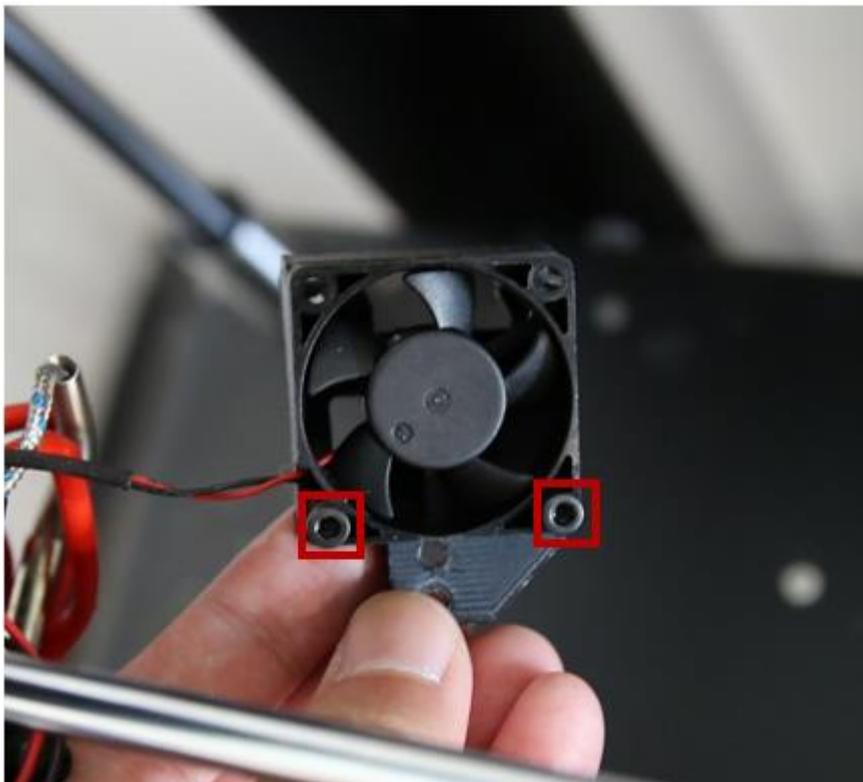
Unload the filament from both nozzles.

Turn off the printer after filament being removed.

## 2. Remove Fan Duct

Remove the screws marked in the picture below and take the Cooling Fan off with Fan Duct.

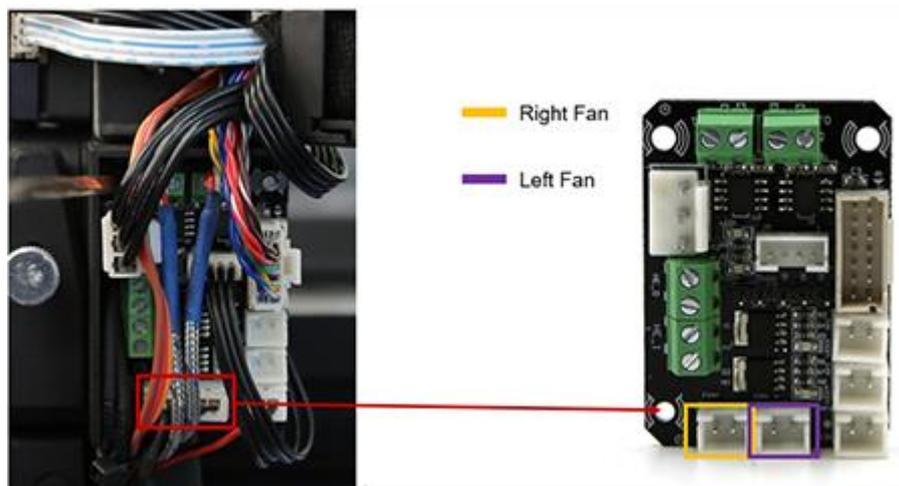
Remove the screws marked in the picture below and take the Fan Duct off.



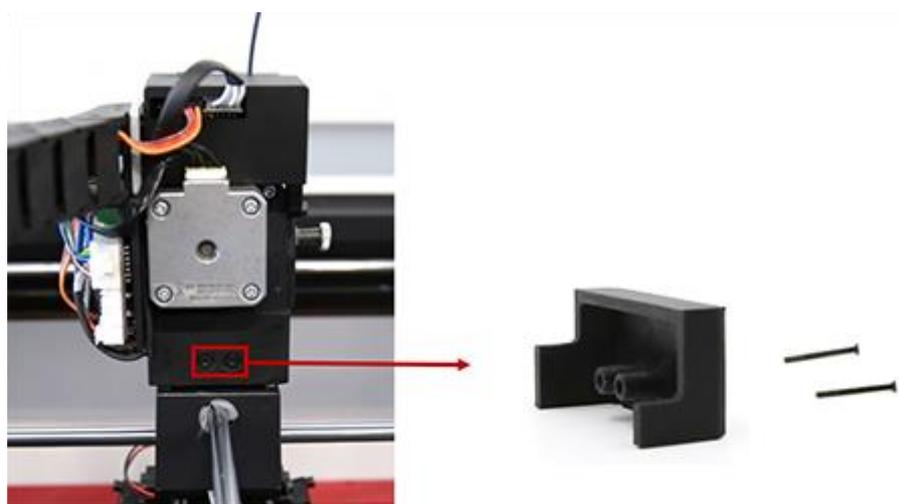
## 3. Preparation for Wiring

Unplug the cable of Side Cooling Fan from extruder board.

\* The left terminal on board is used to control Right Fan, right terminal is used to control left fan.



- Take the old Cooling Fan and the its cable out.
- Remove the two fixing screws from the black back casing and take the casing off.

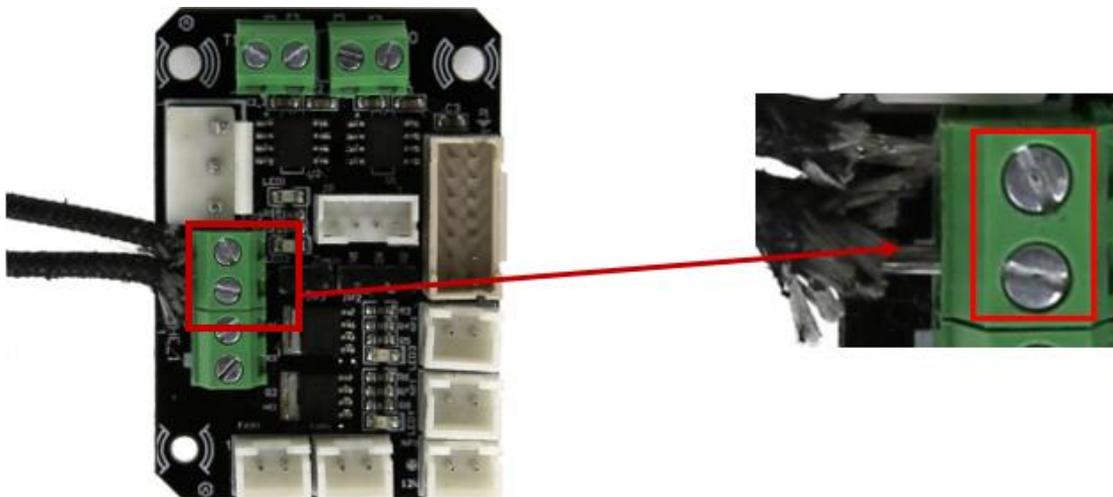


Cut the zip ties fixing cables.



Loosen the screws marked in following image. And remove the Heating Rod cables from extruder board.

\* If you want to replace the Left Side Cooling Fan, please remove the Heating Rod at lower terminal which is for control left nozzle.(Note:In order to remove the heater rod wires the extruder connection board should be removed from the printhead)



Pull the Heating Rod cables out from the Mounting Block from the bottom.

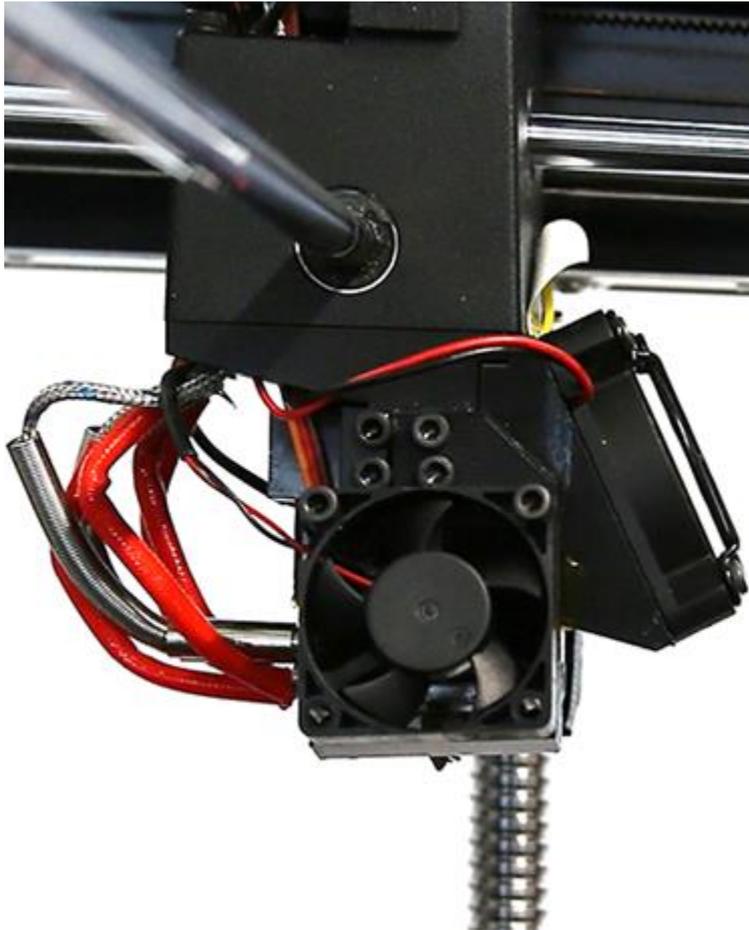


4. Install the new Fan  
Replace a new Fan.

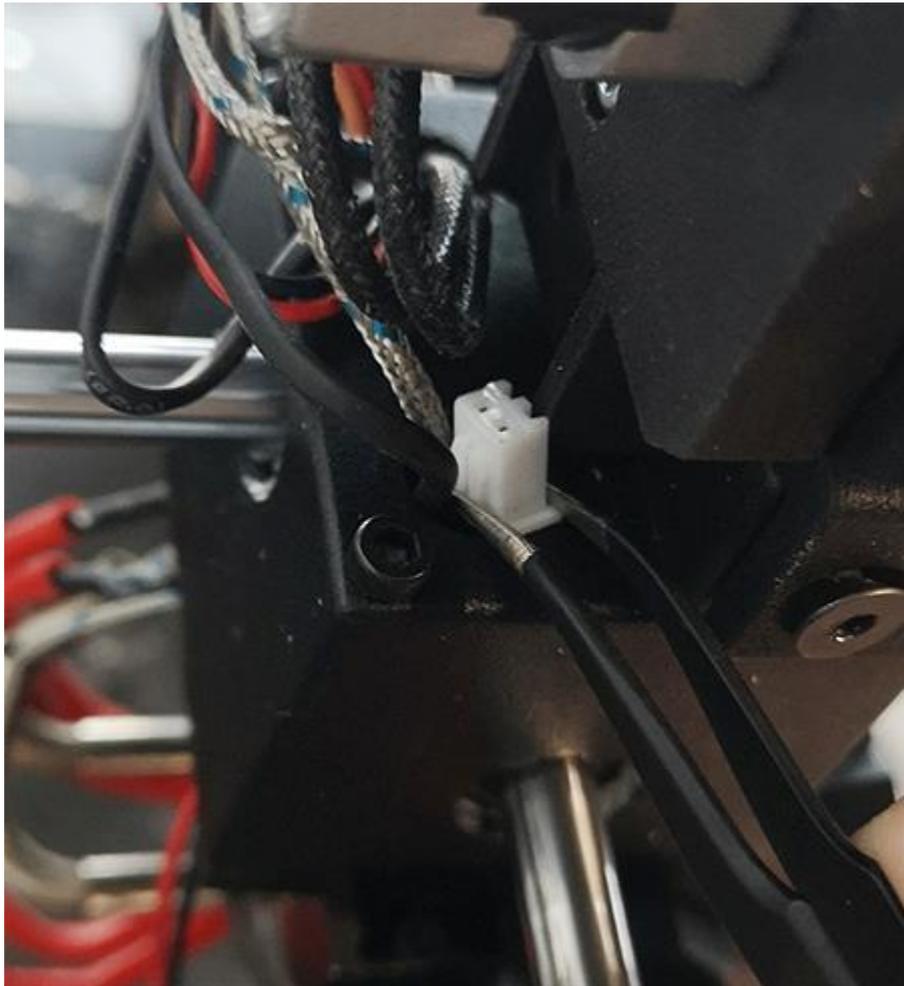


**\* Make sure that the surface of fan with tags is facing support.**

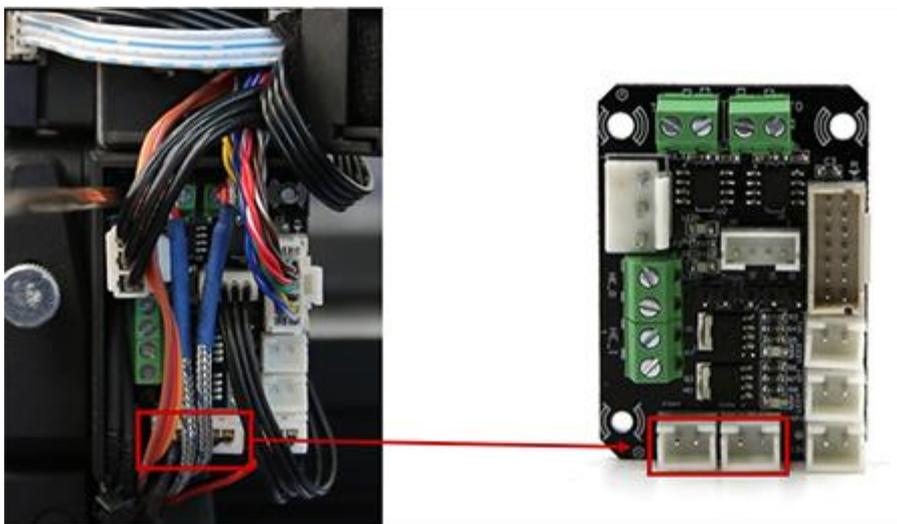
Install the New Fan and the Fan Duct back onto the printer.



Grab the connector of the new Fan by tweezers out from the top to help it go through the Mounting Block.

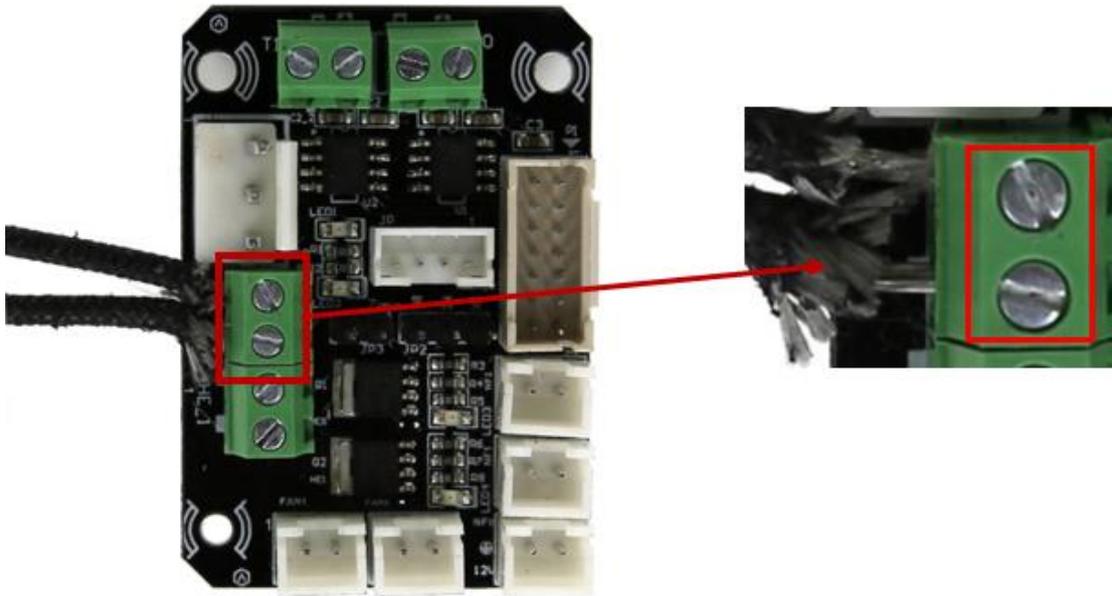


Plug the side fan cable onto the terminal where you unplug the old cable.



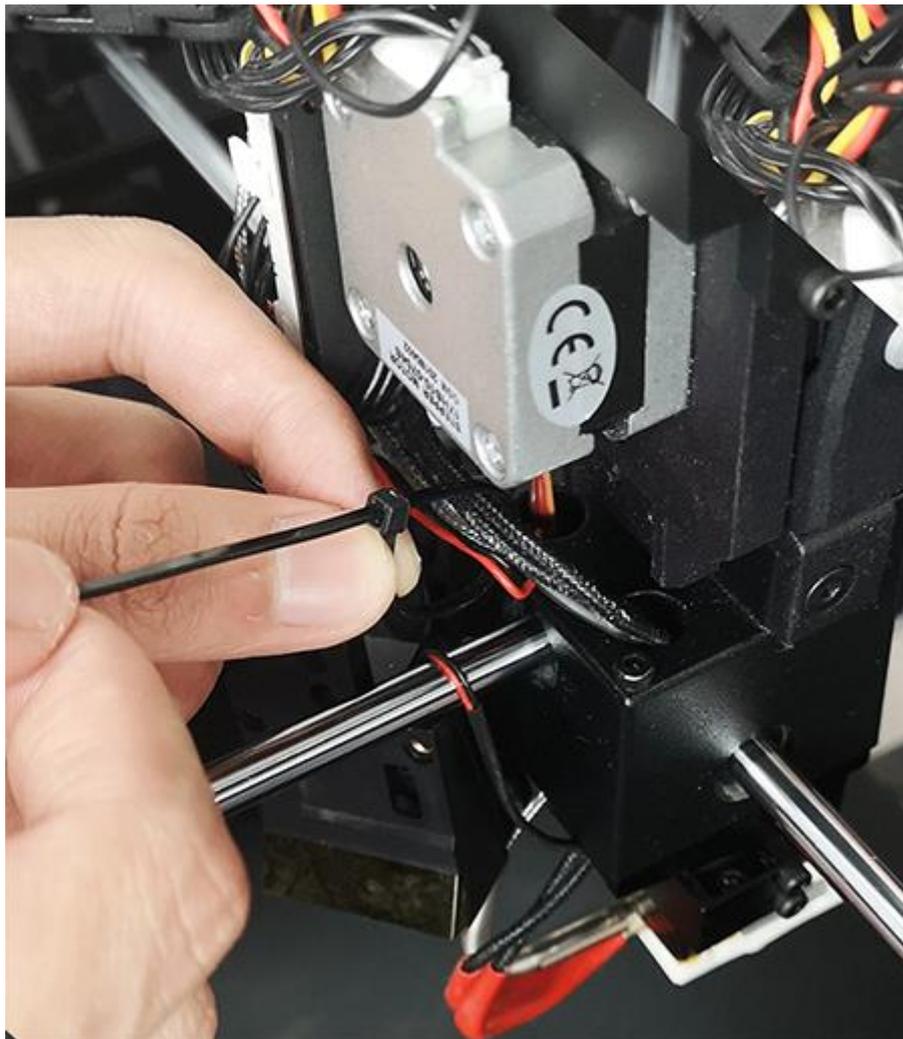
Insert the cables of the Heating Rod into the terminal and tighten the screws to fix. Ensure there is no exposed wired touching with each other, or it may do harm to the printer.

Upper one is for Left nozzle. Lower one is for right nozzle.



5. Final

Bind the cables together with zip ties and fix the casing back to cover the cables.



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**-END-**