



## Wanhao D9 V1.7 Upgrade Kit



### Assembly and installation manual

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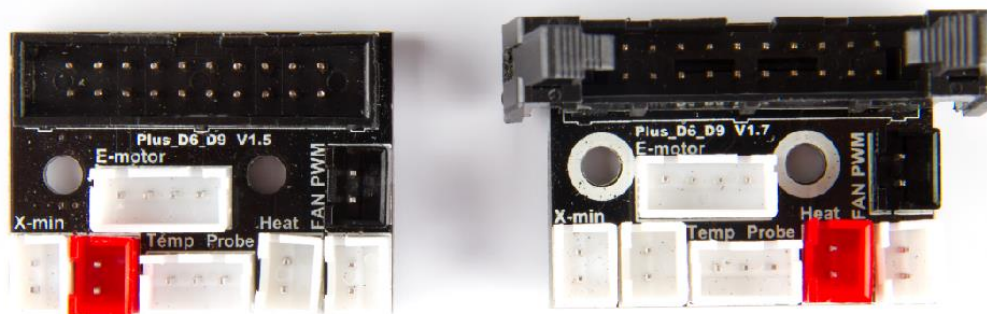


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## Introduction

The Bondtech extruder for Wanhao D9 kit is developed to address the changes made to the original breakout board. As seen in the picture below the old flatcable connector is replaced with a new one. The V1.7 board with a new geometry no longer fits the original design of Bondtech Wanhao D9 Extruder.



## Compatibility

The upgrade is compatible with the Bondtech extruder for Wanhao D9 using an earlier version of breakout board.

## What's in the box?

### Wanhao D9 Upgrade Kit

- 1 x Bondtech extruder rear-housing.
- 1 x Breakout board cover

## Mechanical Installation

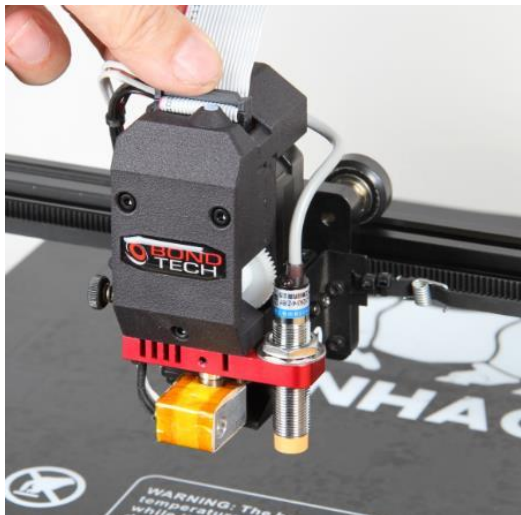
### What you need

- To install the upgrade, you are going to need:
- Hex wrench with size 2,5mm

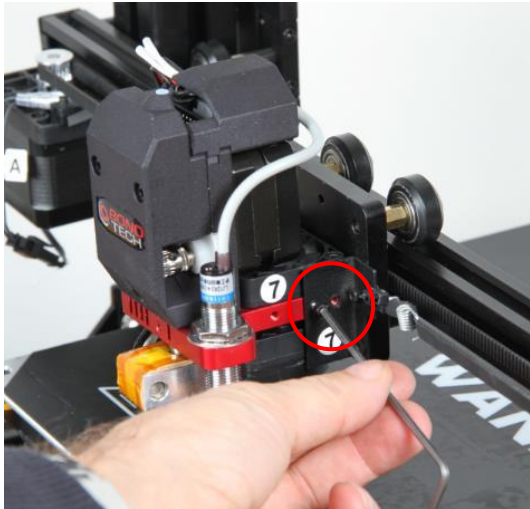


- Start by unloading and remove the filament from your printer.

After the filament is removed, power off the printer.



- Disconnecting the flat cable to the printhead and put it out of the way



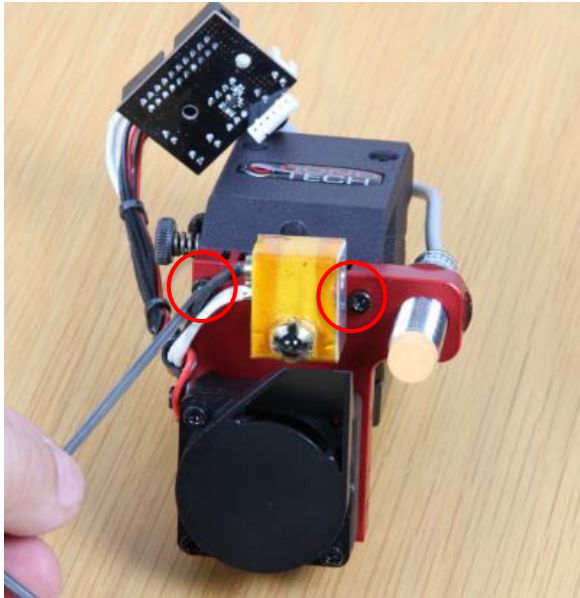
- Use a 2.5 mm hex wrench and loosen the two screws on the right that hold the extruder assembly to the carriage.



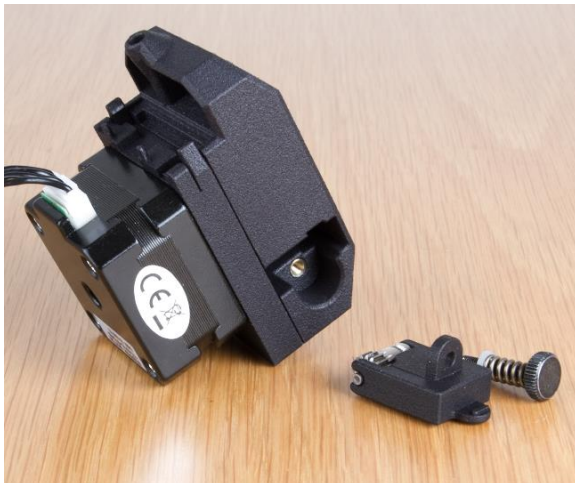
- And the two screws on the left side.



- Remove the break board cover and loosen the connector to the stepper motor carefully.



- Remove the old breakout board and place the extruder assembly so you can reach the two M3 screws that holds the extruder to the bottom plate. Loosen the left and right screw using a 2,5mm hex wrench.



- Remove the thumbscrew and hinge from the extruder body.



- Loosen and remove the 3 M3 screws clamping the motor and extruder together using your 2.5mm hex wrench.





- Place the extruder with the Bondtech logo face down and remove the motor and rear from the extruder body.



- Remove the 5 mm bearing from the old part and assemble it into the new.



- Take the new part and carefully assemble the extruder bodies together and make sure the gear shaft is correctly placed inside the bearing.



- Insert the M3x20 screw in the center and loosely tighten it.



- Mount the stepper motor into the extruder rear.

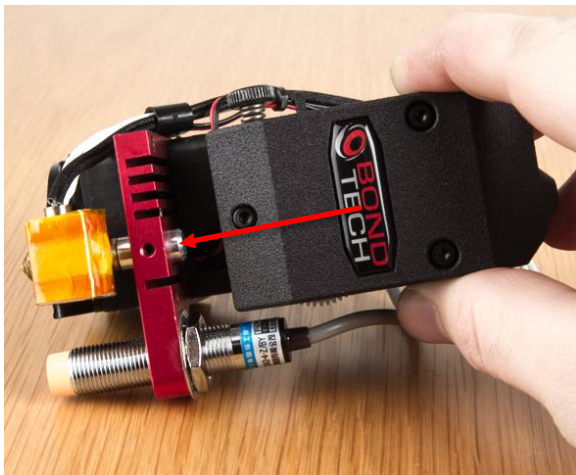


- Align the stepper motor and extruder bodies together and insert the two M3x30. Insert the hinge and thumb screw back into its slot.

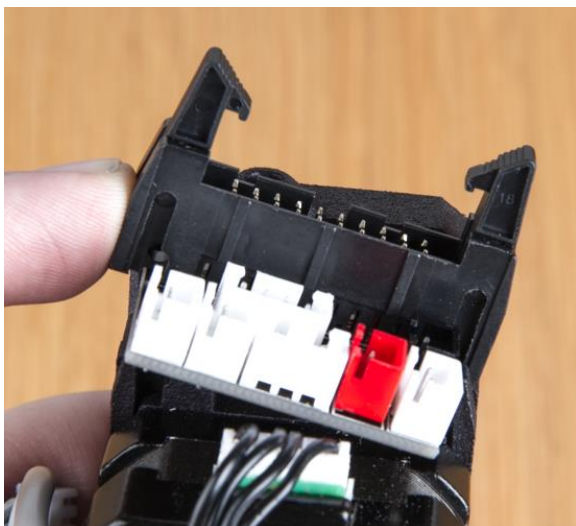




- Carefully tighten the three M3 screws.

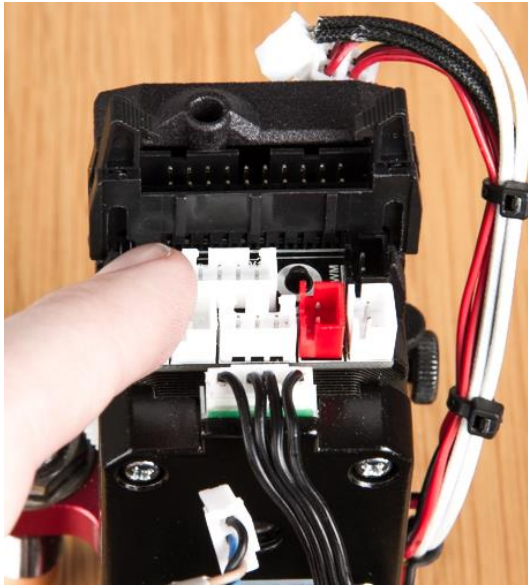


- Slide the extruder onto the bottom plate guiding the recess for the heat break so it fits over the heat break, align the two M3 bottom holes with the screws removed earlier and tighten them using a 2,5mm hex wrench.

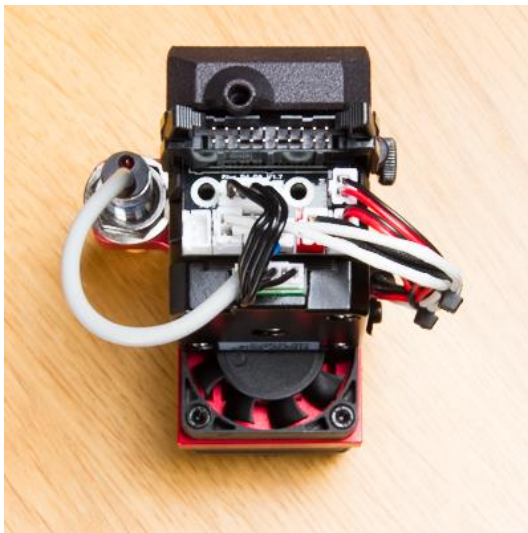


- Mount the new breakout board in place by using the two protrusions and snap-fits on the extruder body.

Start by aligning the right side of the breakout board into the slot on the extruder body.



- And then press the board downwards until it clicks into place. Take it carefully and make sure it is in the correct position before it is pressed down.



- Connect the cables to the new breakout board and to the stepper motor.



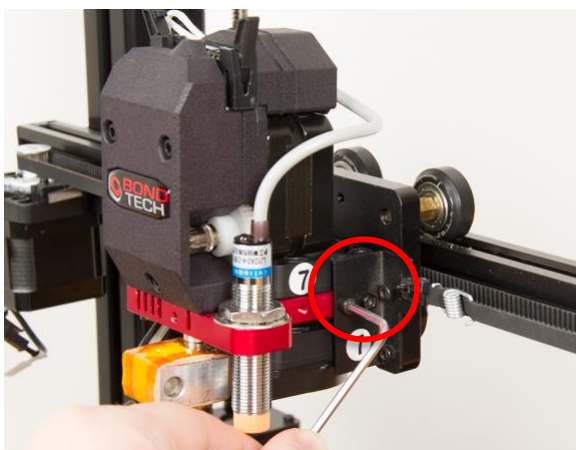
- Slide the new cover over the board, make sure to arrange the cables so it fits into the cut-outs on the left side for the wires to the cooling fans and the hotend.



- And the cut-out for the inductive sensor on the rear side.



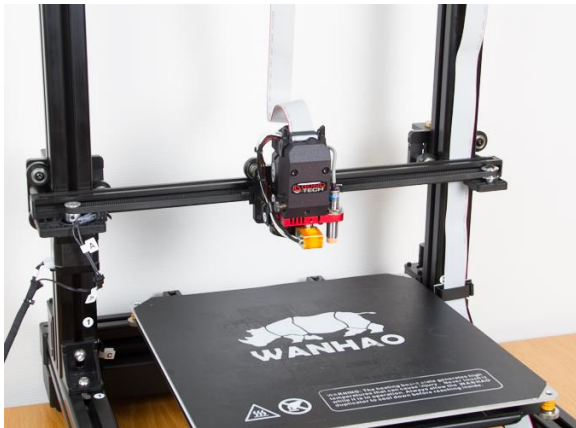
- (Optional) Secure the cover with a zip tie.



- Install the extruder assembly onto the print carriage using the screws removed earlier. Two screws on the right side and two screws on the left side, make sure to support the extruder so it is as parallel as possible to the print bed during tightening.



- Connect the flat cable to the breakout board.



- Congratulations! Your upgrade is now complete.

Good luck with your Bondtech feeder!

If you have any questions, please first read the FAQ (<https://www.bondtech.se/en/customer-service/faq/>). If the question still hasn't been answered feel free to contact us by opening a ticket in our support system that you find [here](#)





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