

Replacement of Fan set for new Craftbot flow printers.

Since the introduction of the CB3 Crafttunique have been working to improve the operational parts.

One of these parts is the Fan assemble which is now not only holding the 2 fans one for the Extruder and the other for Object fan. But also, a new mesh bed levelling BL touch system.

Important notice

For this to work a new circuit board was needed. Incorporating a new connection point between the Extruder extender board and the new fan set extender board. These new connection pins are very important and must be set correctly and protected for them to work correctly. Please make sure to not to damage the connection pins.

Fault finding and diagnostics:

if you have any problems from the BL touch intermittently or not working altogether or the fans not working, then Please follow the process below to investigate. This could be due to pins breaking or being miss aligned due to twisting of the Fan casing.

For the disassembling and replacement of the new fan sets there will be a new process listed below.

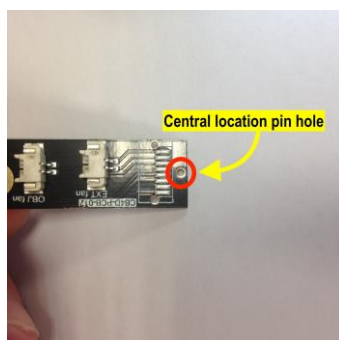
Equipment

For this process you will only need 1 x 2 mm Allen keys.

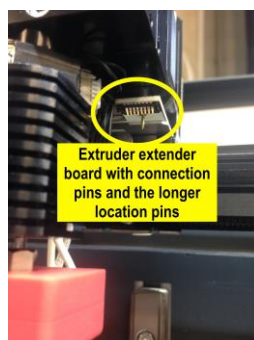


2 mm Allen Key

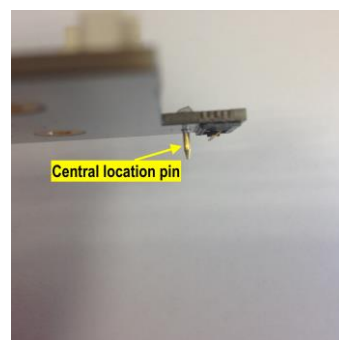
Picture of the Extender and fan extender assembly board and connections

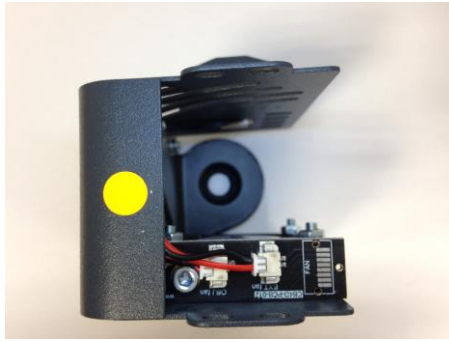


Fan extender board.



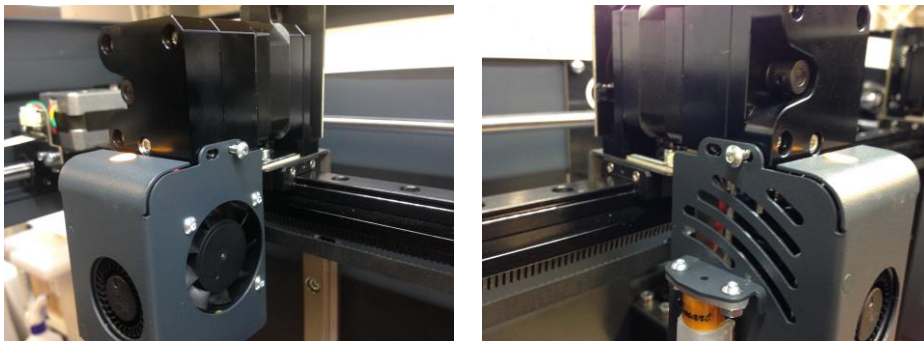
Extruder extender boards





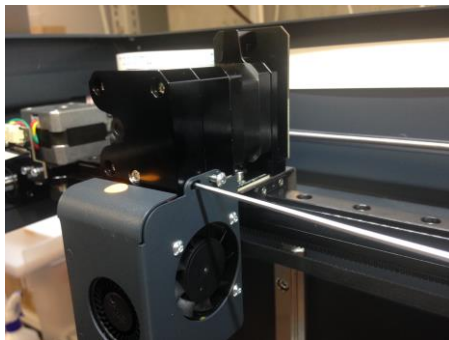
Overhead view of Fan Assembly with fan extender board

1. On the right side remove the front Allen screw with the 2 mm Allen key. On the left remove the Rear Allen screw. This is to keep the fan assembly level.



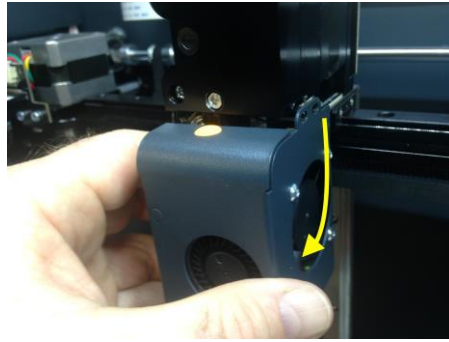
Extruder Fan assembly removal 1 and 2

2. loosen the remaining 2 screws so you can move them by hand, “but do not take them out. (note) Due to the delicate pins of the extender board you will need to control the movement of the Fan assemble to disconnect both the Extender board correctly. Now place the 2 mm Allen key into the front bolt hole on the right.



Fan assembly removal 3

3. With one hand, hold the fan assembly steady as you remove the last of the bolts.
(1) 1st, left front first.
(2) 2nd, Then the Right rear as this is the closest to the connection of both boards.

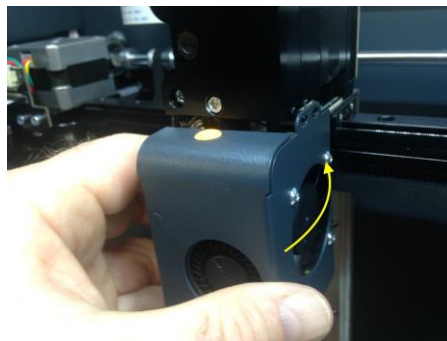


Fan assembly removal 4

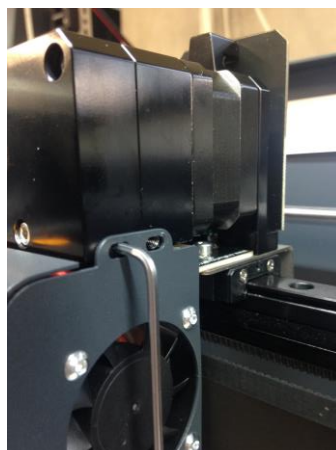
4. Lower the fan set about one Centimetre and then move it forward away from the Extruder.

Relocation of the Fan assembly to the extruder assembly

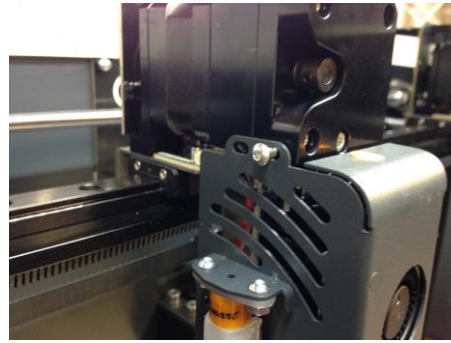
1. Place the fan as you see it in the previous picture, do this carefully by moving the fan Assembly over the extruder first below the required height around about 1 centimetre. Gently lift the fan assembly to connect to the 2 boards together but first locate the central pin from the Extender board into the hole of the Fan extender board below it.



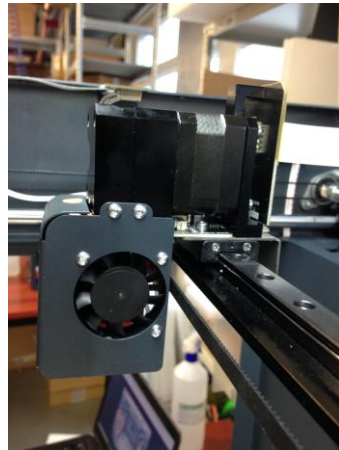
When you have located the central hole align the side bolt holes of the Extruder with the fan casing holes and place an Allen key into the front bolt hole on the right side again to keep it steady.



2. Start to place the first bolt into the rear hole on the right side. To hold the correct position taking some of the stress off the pins.



3. Place the second bolt into the front left bolt hole to hold the fan assembly more level and upright onto the extruder Assembly. Now Remove the Allen key, to secure all 4 of the bolts to hold the fan set onto the extruder assembly.



4. Then you have finished the disassemble and reassembly of the Extruder fan set from the extruder assembly.