

eC-stencil-mate – operator manual

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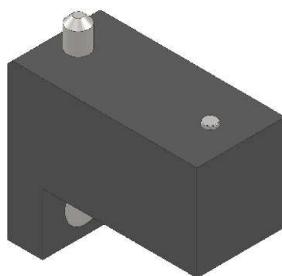
Unpack the box

The following parts should be in the box.

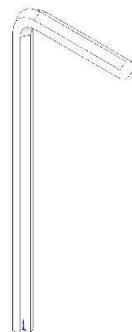
1. Stencil printer
2. Handle part 1
3. Handle part 2
4. Hex screw M6 x 70 (handle fixing)
5. Hexagonal wrench 5 (fixing the handle screw)
6. Hexagonal wrench 4 (securing the stencil in the frame)
7. Positioning blocks (2x) (magnetic)
8. PCB support pins (4x) (magnetic)
9. PCB corner supports (2x) (magnetic)



2x



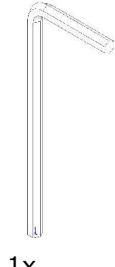
2x



1x



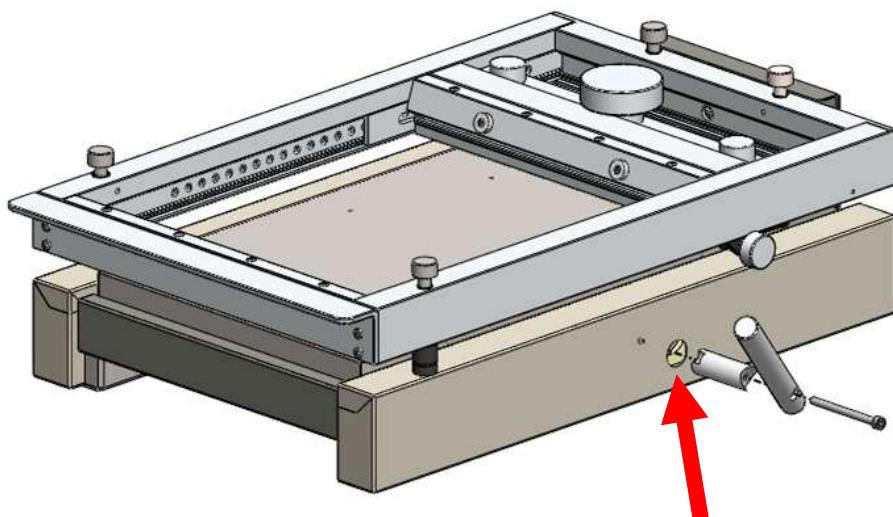
4x



1x

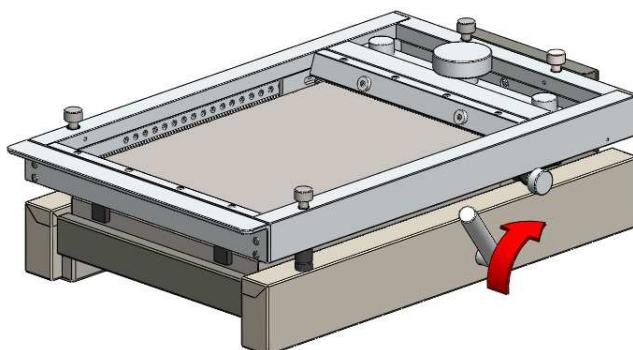
Prior to first use

Screw the handle to the printer as shown in the drawing.

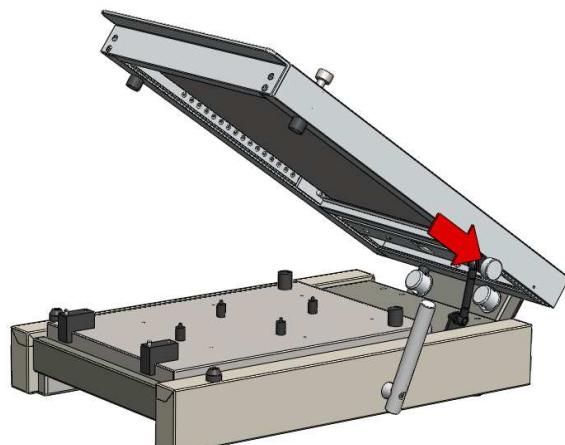


Open the frame [TAKE CARE]

1. Push the handle backwards so the table is moved down.

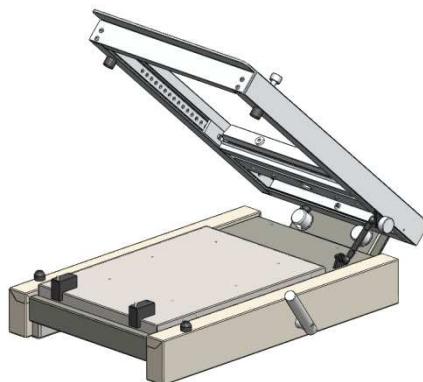
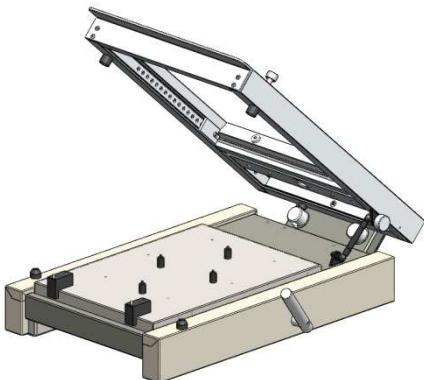


2. Open the frame. **Push the security knob as far to the rear as possible.** *This prevents the frame from dropping back down.*



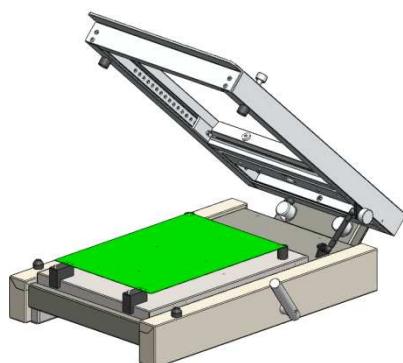
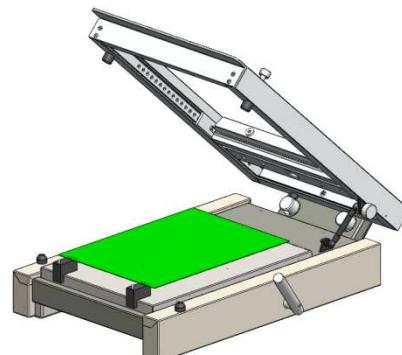
Installing the stencil and the PCB

1. Put the positioning blocks on the table as shown.



2. Now place some PCB support pins on the table to support the centre part of the PCB.

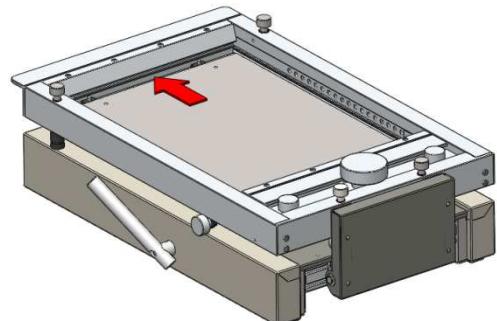
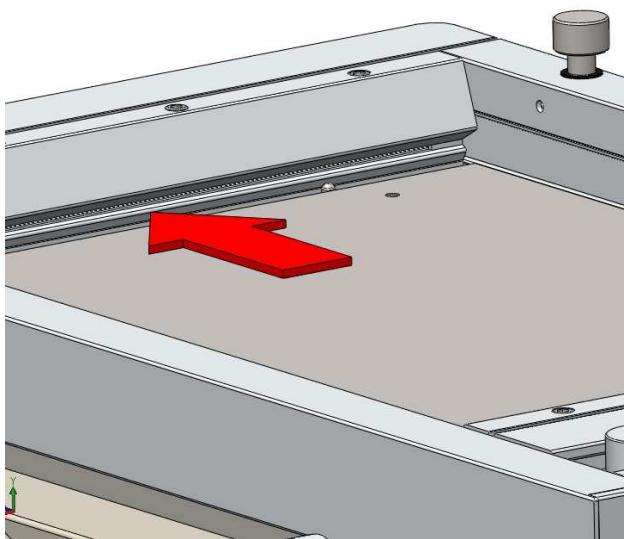
3. Adjust the positioning blocks to the PCB. The 3mm pins on the blocks must match the 3mm tooling holes in the PCB.
4. Place the PCB firmly on the positioning blocks and the support pins.



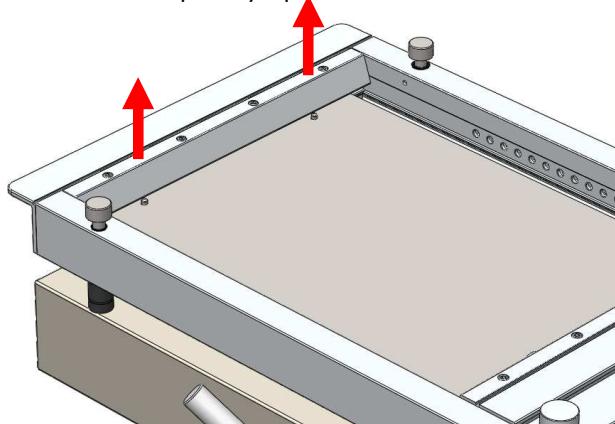
5. Now put the PCB corner supports in place as shown in the drawing.

The PCB is now ready and fixed.

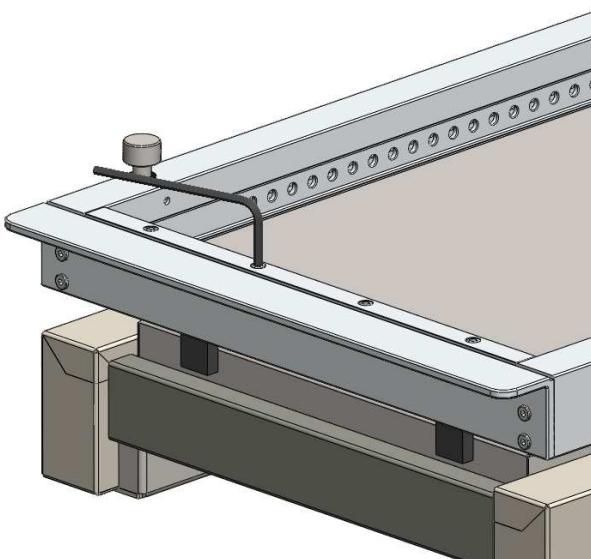
6. Slide the stencil into the front slot of the frame.



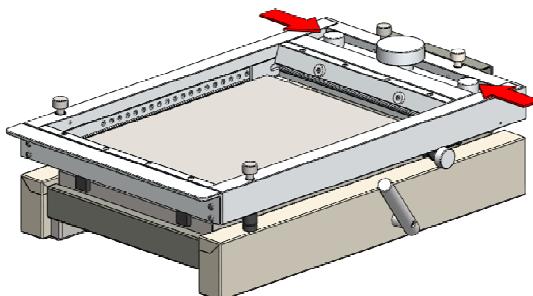
7. Bring the table up by moving the handle forward. Move slowly and make sure the 5mm pins of the positioning blocks pass through the holes in the stencil. Stencil and PCB are 100% registered once the table is completely up.



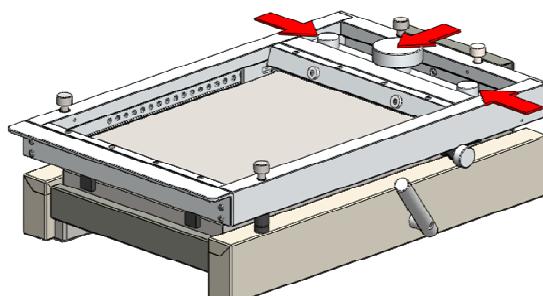
8. Tighten the front 4 screws with hex key number 4.



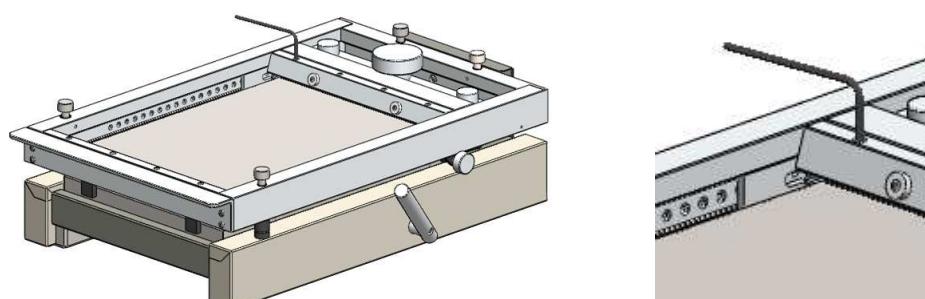
9. Release the stencil tightening bar.



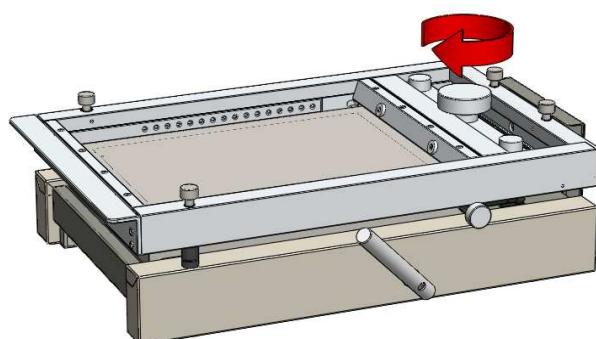
10. Move the bar to fit the stencil.



11. Slide the stencil into the slot in the bar. Tighten the 4 screws to fix the stencil.



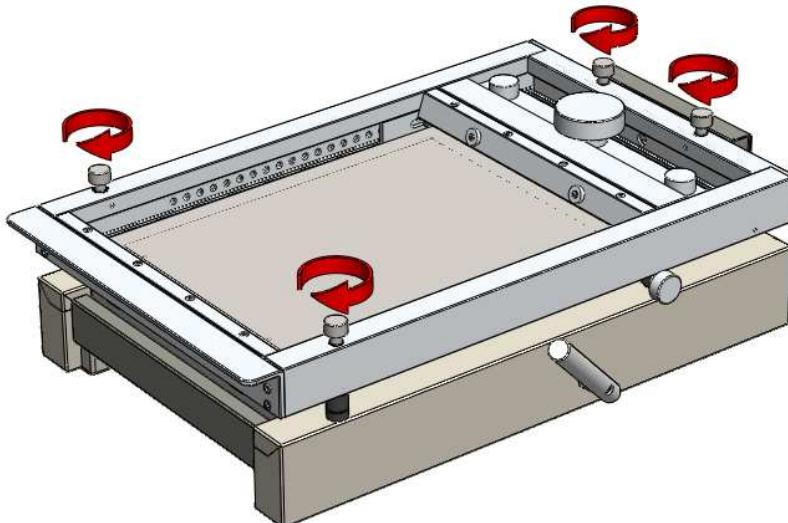
12. Tension the stencil using the large knob.



Adjust the frame

It is possible to adjust the frame height to match different PCB thicknesses.

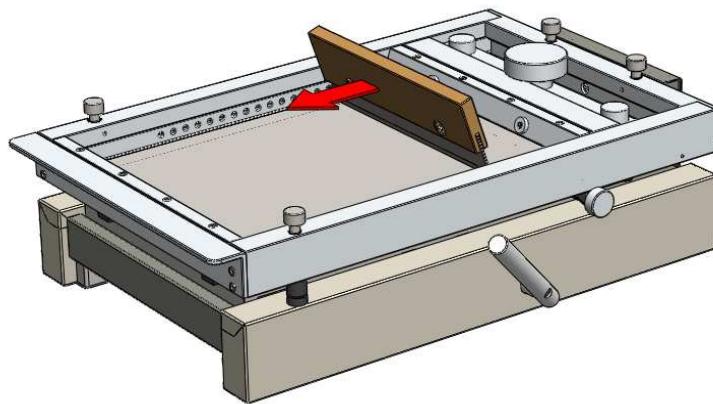
Turn the 4 knobs indicated on the edge of the frame until the desired distance between Stencil and PCB is achieved.

**Apply solder paste**

To do this you will need a squeegee. We recommend our Eurocircuits eC-squeegee.



Spread solder paste on the back end of the stencil. Move the squeegee towards you to push the paste into all stencil openings. Push the squeegee down firmly and move forward in one fluent movement.



Push the handle backwards so the table sinks vertically away from the stencil. You can open the printer now to remove the printed PCB.

Remove the stencil

1. Release all 8 hex screws in the frame with hex key number 4.
2. Remove the stencil out of the frame.