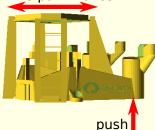
## **OpenFlexure Microscope: quality checks**



1. Check the XY table printed OK. Some loops of plastic underneath are ok, but the top must be flat.

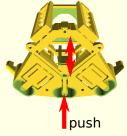


this part moves



2. Check the X and Y actuators move when pushed with a finger, and that the XY table moves with the actuator.





3. Check the Z actuator moves when pushed with a finger, and that the objective clip moves with the actuator. If it doesn't, it may be that the printer overextruded, so the gaps between the Z struts and the body are not present. This can often be fixed with a craft knife.

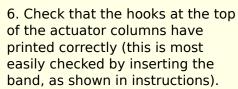




4. Check the objective clip is vertical and that the front of the clip is straight. There is often a kink at the very top if it has wobbled during printing.

## Richard Bowman, Jan 2018

6. Check that the nut traps are large enough to insert an M3 nut. You should be able to push it in using the nut insertion tool, as shown in the instructions. The hole in the nut should line up with the hole in the actuator column.





7. Check that the flexures at the tops of the leg printed correctly. There should be 4 thin sections without a strut either above or below them (red arrows). These are important for the XY table to be able to move. The small strut at the top should be in the middle of the two legs, and its outer edge should line up with the legs (blue rectangles).

