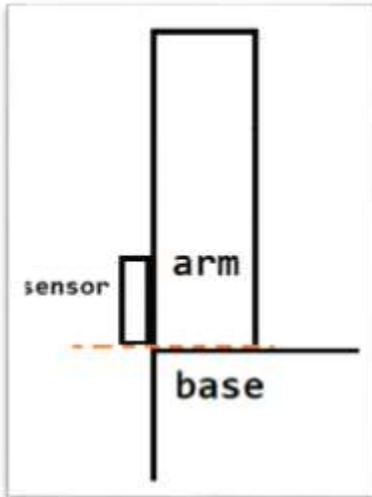


CR-X Technical Notes

Z-Axis Sensor

The Z-Axis sensor is an externally mounted attachment to this printer, and **must** be attached to the machine before turning the machine on. It is secured by two channel nuts, which will turn and lock into place while tightening. The Z-axis sensor must be mounted with the bottom of the sensor mounting in line with the base of the printer.



(left: diagram showing the sensor aligned to the base)



(right: incorrect positioning of the z-axis sensor)

Levelling the bed

Like any printer, the bed must be levelled before use. This brings the nozzle to the correct distance to the bed, and also accounts for any irregularities in the two z-axis motors. Levelling the corners should be enough, but you can pre-heat the bed to get a flat surface and level the centre as well. You should level so that you can feel slight resistance when trying to remove a piece of paper, and the plastic should stick to the bed without hassle.

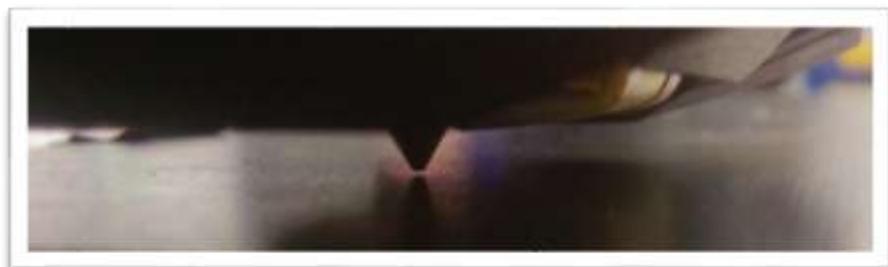
Nozzle too far from bed

Plastic not sticking (PLA)
Plastic comes off mid print
Paper slides between bed and nozzle easily

Nozzle too close to bed

Plastic not extruding
Plastic has rough edges on first layer
Takes force to move paper between nozzle and bed.

(Left: You should be able to see a small gap between the nozzle and the bed, the plastic should lay out consistently)



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1800 022 888

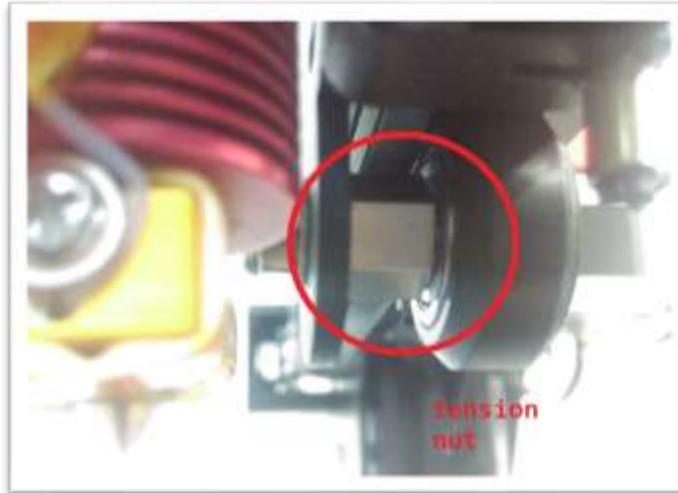
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CR-X Technical Notes

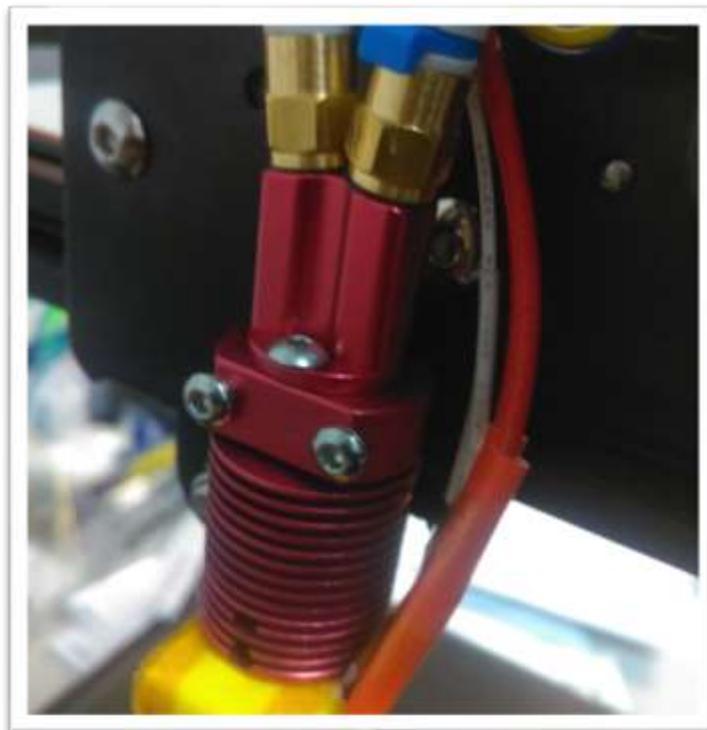
Loose/wobbly head

If the extruder head wobbles or can be shaken by hand on the X-axis railing, you must tighten the tension nut to a point where it stops wobbling, then a slight turn after that. The tension nut is located behind the bottom wheel, as part of the axle; this brings the bottom wheel up closer towards the rail. Use the included spanner or a spanner from our [TH1910](#) set.



Nozzle assembly / thermocouple replacement

The front shield / fan-housing of the extruder can be easily removed by 2-3 screws on the front of the extruder. Within, the nozzle is attached by a further 2 screws, which mount it on to the base plate. From this point it should be easy to remove and replace the nozzle, heater, or thermocouple when needed.



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CR-X Technical Notes

Blockages should not occur at the nozzle and should be more prone to other areas; which can be easily removed by disassembling the nozzle assembly. [TH1766](#) would help with this, as with [TD2132](#).

Thermocouple errors usually show through abnormally high temperature readings while the nozzle is still cold to touch. It is held in place by a small screw located on the side of the nozzle.

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