QUICK START & ASSEMBLY

Cooling Path

How to unpack the Cooling Path and assemble it, ready to mount on the machine.

Draft · October 2026



1. Unpack

STEP 01

Open the box

1. Cut the packing tape along the center seams and both edges.
2. Open the box.



Figure 1: The box as you open it: T-shaped foam on the conveyor, wheel holder (yellow tape) on the wheel, Quick start & Assembly box with a foam block on top.

STEP 02

Take out the Quick start & Assembly box and the wheel

1. Remove the foam block from the Quick start & Assembly box and lift the box out.
2. Remove the wheel holder and lift the wheel out of the foam cutouts.
3. Remove the two T-shaped foam pieces from the conveyor.

STEP 03

Free the cables

1. Carefully cut the zip tie that holds the cables to the conveyor on the machine side, without touching the cables.

Tool	Side cutter or scissors

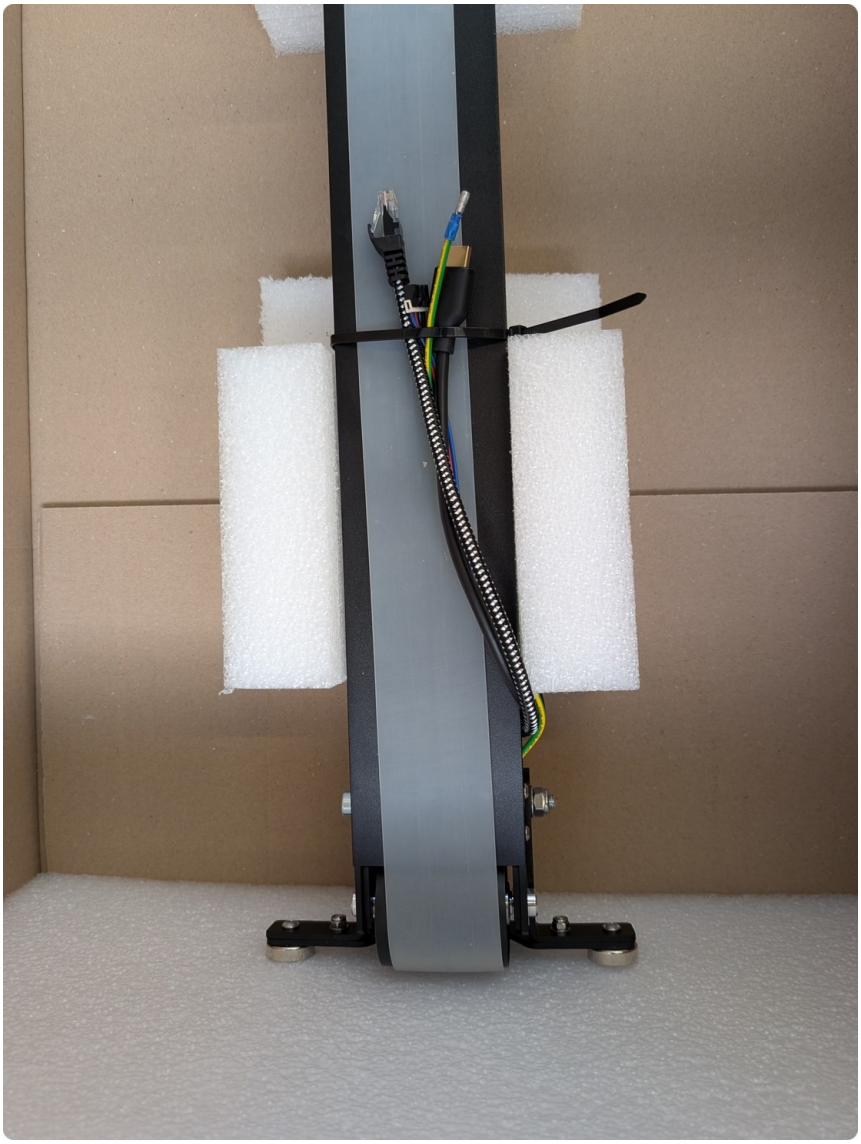


Figure 2: The cables, held by one zip tie on the machine side.

STEP 04

Unfold the A-frame

> ⚠ **Warning** Only rotate the A-frame 90 degrees and lock it straight away (Step 05). Do not lift it out of the box: it is still connected to the tensioner sensor.

1. Carefully cut the two zip ties that hold the A-frame, without scratching the paint.
2. Remove the foam between the A-frame and the conveyor frame.
3. Rotate the A-frame 90 degrees into its slots, then go straight on to Step 05.

Tool	Side cutter or scissors



Figure 3: The A-frame folded for transport, with foam and a zip tie.

STEP 05

Fit the locking plates

1. Fit the two locking plates on the A-frame.
2. Fasten each with an M3 bolt using the 2.5 mm hex key. Tighten firmly by hand.

Tool	2.5 mm hex key
Fasteners	2 × M3 bolt

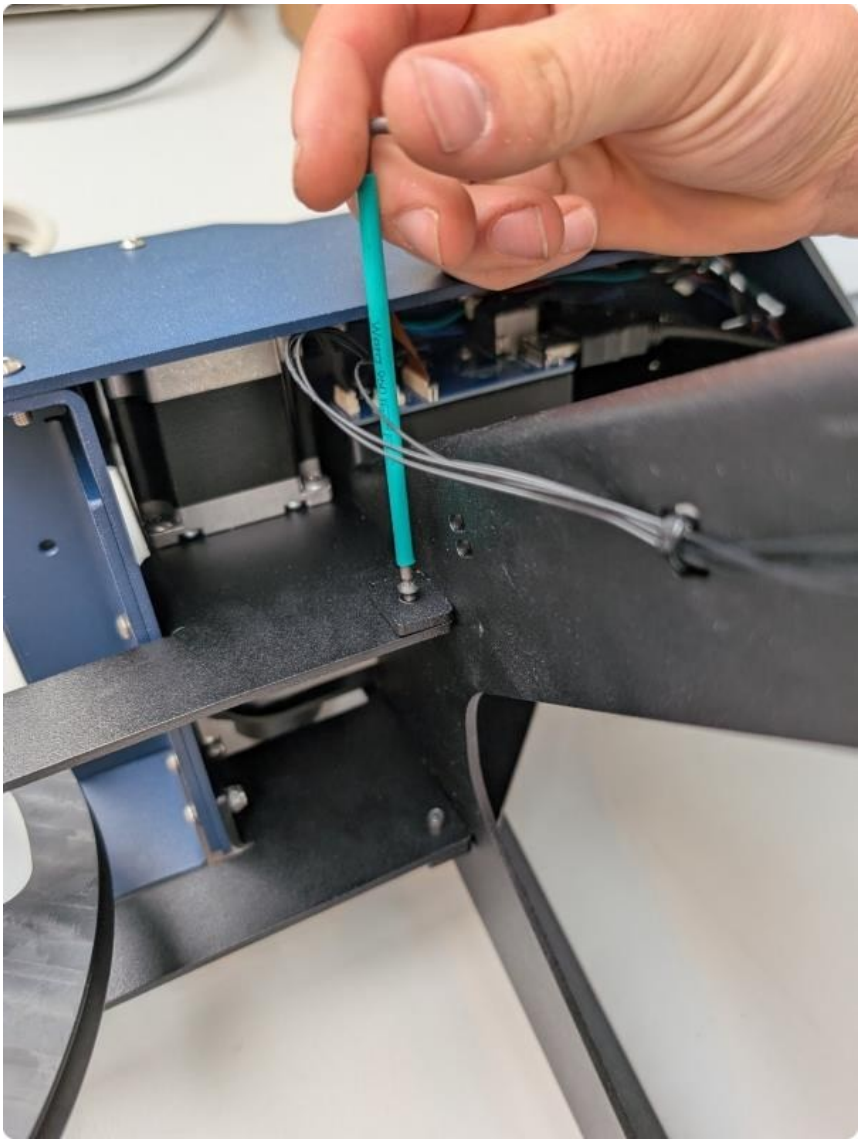


Figure 4: Fastening a locking plate bolt.

Check The A-frame does not move in its slots.

STEP 06

Lift the conveyor out and set the mounting bracket

1. Lift the conveyor out of the box. It weighs about 2 kg, so one person can lift it.
2. Turn it upright and stand it on its A-frame.
3. Loosen the magnetic mounting bracket slightly on both sides with the 6 mm hex key and the 13 mm spanner.
4. Push the bracket to its uppermost position and tighten it again, firmly by hand.

Tools	6 mm hex key, 13 mm spanner
Weight	About 2 kg



Figure 5: The conveyor upside down on the foam supports.



Figure 6: The magnetic mounting bracket in its uppermost position.

2. Assemble

STEP 07

Fit the hall sensor arm

1. Slide the hall sensor arm completely onto its shaft. It can point in any direction; you can turn it to the other side after connecting.
2. Tighten the set screw with the 1.5 mm hex key. Tighten firmly by hand.

Tool	1.5 mm hex key



Figure 7: The hall sensor arm and its set screw.

STEP 08

Fit the filament guide bracket

1. Place the filament guide bracket in position.
2. Fasten it with the two M5 screws using the 4 mm hex key. Tighten firmly by hand.

Tool	4 mm hex key
Fasteners	2 × M5 screw

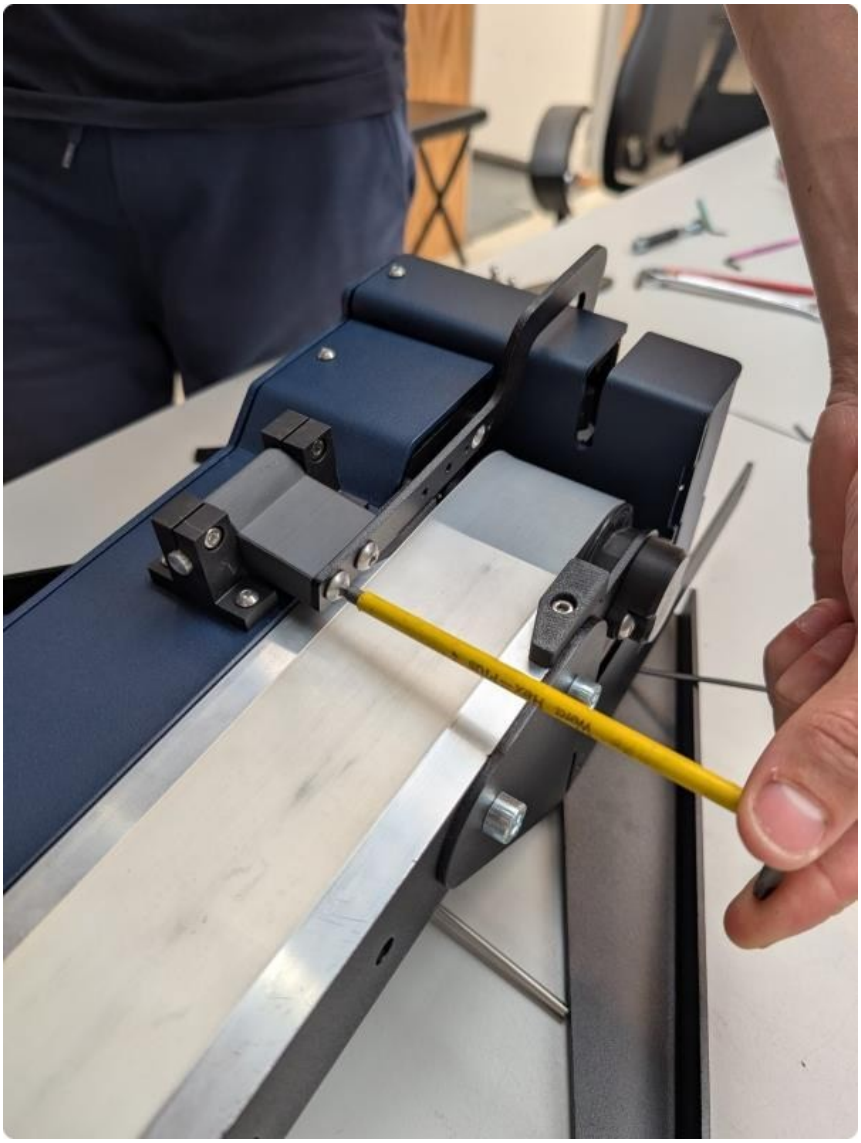


Figure 8: The filament guide bracket and its screws.

STEP 09

Remove the jig

1. Remove the jig from where the wheel goes. It is held only by friction.
2. Keep the jig for future transport.

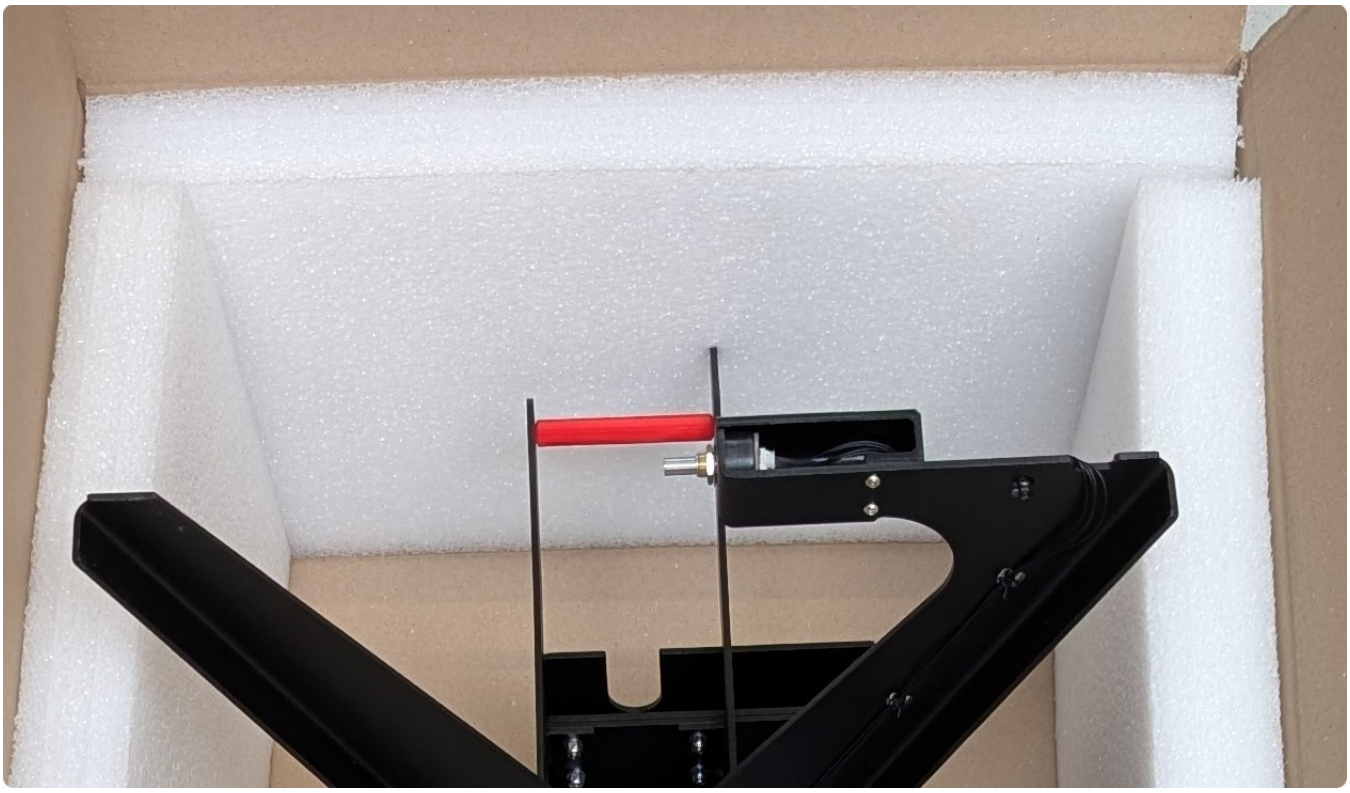


Figure 9: The jig (red) in place, before removal.

STEP 10

Fit the conveyor wheel

1. Put a washer and then the big spacer on the wheel bolt.
2. Slide the bolt through the wheel and fit the wheel where the jig was.
3. Put the small spacer and then a washer on the bolt, and fit the lock nut.
4. Tighten the bolt with the 6 mm hex key, holding the lock nut with the 13 mm spanner. Tighten firmly by hand.

Tools	6 mm hex key, 13 mm spanner
Order on the bolt	Bolt · washer · big spacer · wheel · small spacer · washer · lock nut



Figure 10: Fitting the wheel.



Figure 11: The wheel, bolt, spacers and tools.

Check The wheel turns freely and smoothly.

STEP 11

Fit the wheel guide bracket

1. Place the wheel guide bracket in position.
2. Fasten it with the two M6 bolts using the 4 mm hex key. Tighten firmly by hand.

Tool	4 mm hex key
Fasteners	2 × M6 bolt



Figure 12: Fastening the first wheel guide bracket bolt.

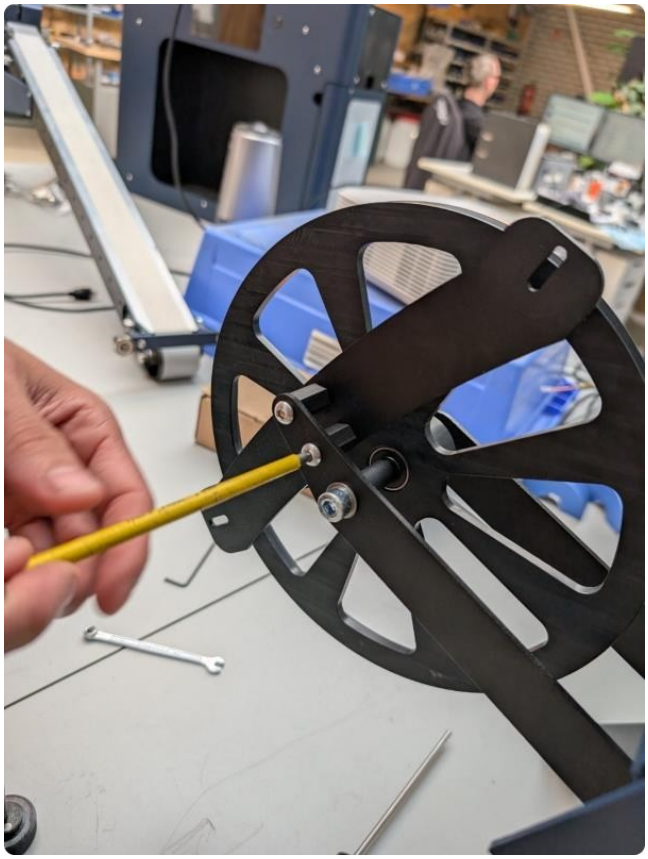


Figure 13: Fastening the second wheel guide bracket bolt.

Note This completes the assembly of the Cooling Path. To install it on the machine and connect the cables, follow the Filament Maker X10 user manual.

NEED HELP?

For further assistance, visit support.3devo.com.