

# Printrbot Simple Bowden Conversion



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updated 17. 5. 2022 | published 17. 5. 2022

## Summary

The Simple can benefit from having less moving mass. McMaster parts needed: 52335K32 Metric Extreme-Temperature Tubing...

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The Simple can benefit from having less moving mass.

McMaster parts needed:

52335K32 Metric Extreme-Temperature Tubing Made with PTFE, 2 mm ID, 4 mm OD, 1 mm Wall, Semi-Clear White. \$2.45 Per Foot (two or more feet required).

5449K171 Metric Black Acetal Push-to-Connection Tube Fitting, Adapter for 4MM Tube OD X 1/8" BSPT Male Pipe. \$2.21 Each (two required).

You should use a 5/8 end-mill or drill to clean the 16mm hole that the hot-end pushes into. Also use a 6-32 tap on the screw holes.

Tap the plastic for the 1/8 inch pipe threads using either a tap or a metal fitting. You may have to use an "R" size drill bit before you tap.

You may want to experiment with chamfering the inside edges of the tubing with a small drill or even a drill of about 2.5mm size / 0.095" to ream the ends of the tube to have less resistance. I recommend ordering at least four feet of tubing so that you can experiment.

Note that the cold-end plate does not have the filament path in the center, so please pay attention to which way you install it.

If you adjust your hobbed-filament drive too tight, it will flatten the filament and then it won't pass smoothly through the tubing.

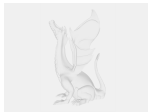
Video: <https://www.youtube.com/watch?v=fODSciCqP74>

Category: 3D Printer Parts

## Model files



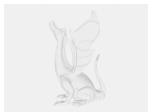
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