



# Filler3 Homebrew Can Filler

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## Summary

An open source 3D printed can filler.

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BOM, Build Instructions, CAD, photos and firmware files can be found at <https://github.com/N3MI-DG/Filler3> .

Quick demonstration video: <https://www.youtube.com/shorts/mNCUL84dfj8> .

### Method of operation:

Press button to start filling process.

The filler will move to a purge position where it will purge can with co2 for a determined period of time.

It will then move to fill position where it fills the can until the sensor rod detects liquid (sensitivity of which is adjustable via analog value to allow for false positive on foam).

Once full will move to a post purge position for a burst of co2 to allow for capping on foam and then home position.

Post purge can be skipped if filling still liquid but setting the post purge duration to 0 in firmware.

All files can be printed at 0.3 layer height without supports except Condensation Cover which should be printed at  $\leq 0.2$  layer height.

Motor Mount should be printed from PETG/ABS/ASA.

Filler Mount pieces should be printed from PETG.

Purge Cap and Feet pieces should be printed from TPU.

## Model files

**tube-section.stl**

☐ 2x Required

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**car-stop.stl**

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**condensation-cover.stl**

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**purge-cap.stl**

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**foot.stl**

☐ 4x Required

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**dfu-helper.stl**

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**filler-mount-front.stl**

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**handle-stop.stl**

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**carriage.stl**

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**idle-stop.stl**

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**pcb-spacer.stl**

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**filler-mount-right.stl**

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**base.stl**

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**motor-mount.stl**

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**filler-mount-left.stl**

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