



Barrel Gate Bolt | Sliding Latch Lock | Multiple Sizes



moWerk

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updated 25. 7. 2024 | published 25. 7. 2024

Summary

Remix of Jerry Lees lock with added cut out to hold the bolt while the lock is open to allow any mount orientation.



1.53 hrs



1 pcs



0.20 mm



0.40 mm



PET



14 g



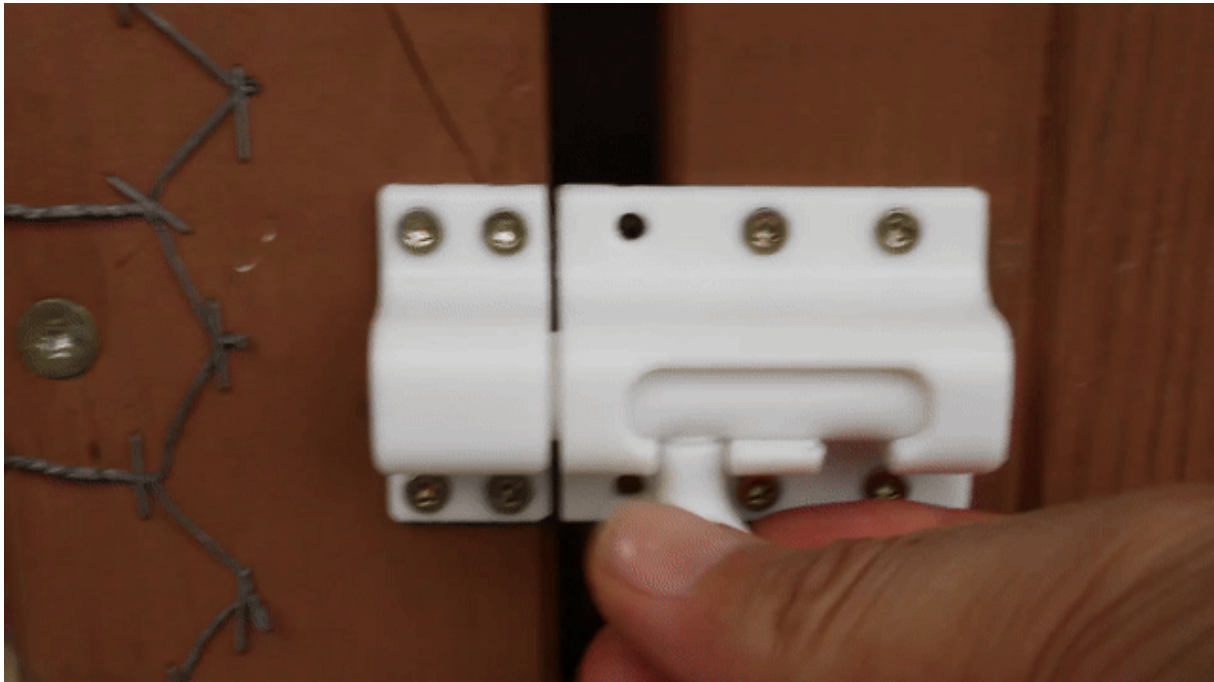
Prusa MK4

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Smoothly operating and very sturdy sliding barrel bolt lock thanks to the great original design by [Jerry Lee](#)

With added “locked open” position and full FDM print optimized handle with threads, removing the need for glue.



Six sizes have been tested and are supplied as 3mf project files

Overall Length in mm	Width in mm	Bolt $\varnothing$ in mm	Scaling %
100	60	18	111,11
90	54	16	100
80	48	14,2	88,88
70	42	12,5	77,77
60	36	10,6	66,66
50	30	8,9	55,55

Picture to size reference:

The GIF and title picture shows the 7cm version in white.

The comparison picture shows 5 (silver/white), 6 (black) and 7cm (white) version.

The last pictures with the lock mounted facing down show the large 10cm version (black)

Print advise:

- Use the supplied 3mf project files for tested orientation of all parts, correct scaling proportions and sane supports.
You will need to clean up the barrel bolt from supports using either a de-burr tool, sand paper or a knife.
- When choosing the raw stl files, print the bolt laying flat and the base parts upright. This helps structural integrity a lot by distributing the forces along the layer lines, not the stacked layers.
NOTE: Only the actually changed remix files are posted in the STL folder. For the unchanged Small Plate where the bolt locks into,

please visit the original model and download it from there in case you need it. Its name is gatelockboltplatesmall.stl

- Scaling lower than 50mm (55.55%) might work but is untested. The handle screw tolerances might become too small. Try to print the handle even smaller, like 99-98% of your scale.
Or better download the original bolt and handle from Jerry Lees model and scale them accordingly. Those are much easier to print in small scale but need to be glued.

Assembly

- You will need 10 screws to mount the bases using all screw holes. For the 5 and 6cm version, i used 2.5 by 12mm self cutting screws. The 7 to 9 cm versions can hold 3-3.5mm wide screws. For the 10cm version i was able to use 4mm thick screws.
- Keep the parts in locking position while mounting the screws to ensure proper fit.

If you want to support me, please check my other models!

I do very niche projects mostly. Thus, understandably, only few of my models become popular.

But chances are high that you can find inspiration from my specialized works.

<https://www.printables.com/@moWerk/models>

Thank you and happy printing!

This remix is based on



Lockable gate bolt

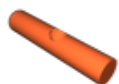
by Jerry Lee

Model files



raw STL + blender source

4 files



bolt-lock-bolt-remix.stl



bolt-lock-handle-remix.stl



bolt-lock-base-remix.stl

bolt-lock-remix.blend



bolt-lock-remix-5cm.3mf



bolt-lock-remix-6cm.3mf



bolt-lock-remix-7cm.3mf



bolt-lock-remix-8cm.3mf



bolt-lock-remix-9cm.3mf



bolt-lock-remix-10cm.3mf

Print files



bolt-lock-remix-5cm_04n_02mm_petg_mk4_1h32m.bgcode

PET 0.40 mm 0.20 mm 1.53 hrs 14 g Prusa MK4

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