



Travel Sliding Tiles Puzzle



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Summary

My version of the "Sliding Tiles" version in a "Travel-Game" format



18.94 hrs



5 pcs



0.20 mm
0.10 mm



0.40 mm



PLA



196 g



Prusa
MK3/S/S+

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[tiles](#) [slidingpuzzle](#) [nobattery](#)

I took the idea of the "sliding tile puzzle" expanded it to 6 X 6, instead of the most seen 4 X4 version, and adapted it to my "Travel-Game" format.

The history of this type of puzzle you can find in Wikipedia: https://en.wikipedia.org/wiki/Sliding_puzzle

All my "Travel Games" have the same size, can be easily put in a backpack and do not need batteries. They are designed so that you can play them in a moving vehicle, like car, train or plane.

Instructions

The main part prints in place with 0.2 mm layer height.

There are 2 model (and gcode, 3mf) files. One designed with 0.2 and one with 0.3 tolerances. The one with 0.3 tolerances gives a very loose set of tiles. The one with 0.2 tolerance gives a much better result, but you need a well tuned printer, and likely you have to “work free” the parts after printing with a knife, or by forcefully moving them. etc.

I changed color 2 times. (White for the frame, yellow for the tiles and black for the figure)

The “lower” part must be glued on the main part. I created some holes where you can put in 1.75 mm filament pieces, approx 3 mm long, to guide the alignment. Be careful not to spill glue between the moving parts.

The hinge is also made of pieces of filament. Likely you have to ream all the 1.8 mm holes with a 1.8 mm drill. Also the hinges need probably some sanding for smooth operation.

Print the latch with 0.1 mm layer, and glue it on the lid. If you don't do this it will come off after time.

And..

Have fun, and do not forget to give feedback and post the results when you have printed it. The feedback is my reward...

Model files



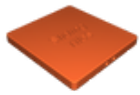
main_tol03.stl



main_02_tolerance.stl



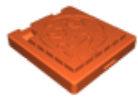
lower.stl



lid.stl



latch.stl



bottomtol03.3mf



main_02_tolerance.3mf



lower.3mf

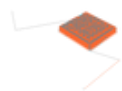


lid.3mf



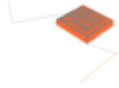
latch.3mf

Print files



main_02_tolerance_02mm_pla_mk3s_8h3m.gcode

🌀 PLA 🌀 0.40 mm ≡ 0.20 mm ⌚ 8.05 hrs ⚖️ 77 g 🖨️ Prusa MK3/S/S+



main_03_tolerance_02mm_pla_mk3s_7h34m.gcode

PLA 0.40 mm 0.20 mm 7.56 hrs 72 g Prusa MK3/S/S+



lower_02mm_pla_mk3s_1h9m.gcode

PLA 0.40 mm 0.20 mm 1.15 hrs 19 g Prusa MK3/S/S+



lid_02mm_pla_mk3s_1h57m.gcode

PLA 0.40 mm 0.20 mm 1.95 hrs 27 g Prusa MK3/S/S+



latch_01mm_pla_mk3s_14m.gcode

PLA 0.40 mm 0.10 mm 0.23 hrs 1 g Prusa MK3/S/S+

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