Hexglyph Print-in-place Puzzle Box

3D Printy

VIEW IN BROWSER

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Summary

A print-in-place puzzle box with a mysterious hexagon glyphs!

Toys & Games > Puzzles & Brain-teasers

Tags: puzzle printinplace puzzlebox 3dprinty

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https://youtu.be/MZP2tb3nzbc

Customization

The project comes in a multi-color and single-color variants. Both versions work the same way, the multicolor option just makes it easier to read the symbols included on the model.

Printing

- This print requires a well-tuned printer that can reliably print 0.4mm tolerances between moving parts.
- This is a long print, but do not rush it. Print at speeds you know will produce mechanically reliable parts.
- Recommended print settings: 0.2mm layer height, 2-3 perimeter walls, average infill.

- Do not print with supports.
- Do not add a brim.
- Do not attempt to scale the print unless you've already successfully printed it at normal scale.
- Monitor the first few layers very closely for curling or other print issues.
- If printing the single-color version, a light color filament is recommended to make reading the symbols on the design easier.
- If printing the multi-color version, select highly contrasting colors for all symbols and parts labeled "raised".

Verify a Successful Print

There is always a risk that mechanical print-in-place designs will fail to print properly. In this case, a failed print could result in a puzzle that is impossible to solve.

If the following checks pass, you should have a functioning puzzle.

- All six dials rotate freely. If they don't, you may be able to use force to free them up.
- Is the central core of the puzzle (the area enclosed by all six dials) free to wiggle and raise slightly?

Solution

Watch the **video above** for a step-by-step puzzle solution.

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Recommended Attribution Text

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Model files

Print Files 2 files

hexglyph-puzzle-box.3mf

hexglyph-puzzle-box.stl

Template Files 1 file

template.step

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