



Print-in-Place Ghost Puzzle

 **3D Printy**

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Summary

A ready-to-solve twisty puzzle box. No glue, no hardware, and no assembly!

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A ready-to-solve twisty puzzle box. No glue, no hardware, and no assembly!

Update (Sept 27th 2023)

The "Print-in-Place Difficult.3mf" file has been updated to fix an internal collision with the core.

<https://youtu.be/FJXxZtWEMqw>

<https://youtu.be/qvjMhq8SCBg>

Printer Requirements

This is not a difficult print, but it does require a fair amount of accuracy.

All moving parts have a clearance of 0.5mm, so your printer must be accurate enough to avoid fusing together parts that are positioned close to each other.

All functionally important overhangs are limited to 45 degree angles. Your printer must be able to print these overhangs cleanly.

Any stringing or large surface imperfections may make this puzzle impossible to solve.

If the above requirements cannot be met, some parts of the puzzle can be printed separately - most obviously the outer case. Doing so will, of course, spoil the puzzle mechanism.

Options

- Easy
- Difficult

Key Styles

- Standard
- Loose - Use if the standard key is too tight
- Stronger - Use if the standard key is too weak
- Simpler - Use if the standard key is too weak and you want the easiest print option

Printing

- Do not print with supports
- Print at reasonable speeds
- Use filament that won't blob or string
- Make sure your print bed is prepped and cleaned for optimum bed adhesion
- If you add a fuzzy skin texture to the print, ONLY add it to the exterior of the outer shell.

Verify a Successful Print

After printing the main puzzle and the puzzle key, you should be able to tell if your puzzle is solvable by checking the following:

- The puzzle will rattle easily when shaken.
- Parts on the bottom of the puzzle will wiggle when lightly pushed.
- The largest concentric circle on the bottom of the puzzle can rotate by hand.
- The key will fit inside the key hole in the bottom of the puzzle.

- The key will be able to rotate after its inserted into the bottom of the puzzle.

Assembly

None!

Spoiler Alert: Puzzle Solution

<https://www.youtube.com/shorts/yY4Uzi4Dof8>

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This remix is based on



Print-in-Place Twisty Puzzle Box

by 3D Printy



Print-in-Place Twisty Puzzle Box - Difficult

by 3D Printy



Mini Ghost - Sculptember Model #1

by 3D Printy

Model files



Print-in-Place

4 files



print-in-place-easy.3mf



print-in-place-easy.stl



print-in-place-difficult.3mf



print-in-place-difficult.stl



Keys

5 files



key-standard.3mf



key-loose.3mf



key-stronger-top.3mf



key-stronger-bottom.3mf



key-simpler.3mf



Cases only

2 files



case-easy.3mf



case-difficult.3mf

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