



Giant Twist Lock Present

3D printy **3D Printy**

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Summary

This giant tricky present has a hidden latch mechanism that will keep it securely closed until you twist the topper.

[Household](#) > [Other House Equipment](#)

Tags: [box](#) [christmas](#) [christmaspresent](#) [container](#) [present](#) [puzzle](#) [twisty](#)

This giant tricky present has a hidden latch mechanism that will keep it securely closed until you twist the topper.

<https://youtu.be/0jV9NRP9kYM><https://youtu.be/0jV9NRP9kYM>

https://youtu.be/6htE_Pi6Qck

<https://youtu.be/1muiuHjyLIU>

Printing

All parts can be printed without supports.

The base includes a few long bridging sections. If your printer struggles with printing straight bridges, pre-supported versions of each base are available. Just use a screwdriver and hammer to gently knock the custom support out after printing.

The spring works best if it's printed with enough perimeter lines to make the arms of the spring solid. This works better than just increasing the infill % because perimeter lines will flow in the direction of the spring arms.

Assembly

Assembly is the same as the original [Twist Lock Trick Box](#). Watch [this video](#) for the complete process.

Make sure to pre-tension the spring by one gear tooth

This will assure that the latches have a strong hold on the base. This is also necessary for the alignment of some toppers.

Make sure to glue the spring and topper

If you do not fully secure these parts, the mechanism may become detached while in a locked state. I recommend using either super glue or [3D Gloop!](#), but hot glue can work as well.

Internal Dimensions

Approximate internal space for each box.

This doesn't include extra space available in the corners and lid.

Base 38mm

180 x 180 x 38mm

Base 68mm

180 x 180 x 68mm

Base 98mm

180 x 180 x 98mm

Base 128mm

180 x 180 x 128mm

Base 158mm

180 x 180 x 158mm

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This remix is based on



Twist Lock Present

by 3D Printy

Model Files (.stl, .3mf, .obj, .amf)

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Demo

1 files



Assembled.3mf

updated 27. 12. 2021

192.2 KB



Lid

6 files



Lid.stl

updated 27. 12. 2021

34.5 KB



Lid Ribbon.stl

updated 27. 12. 2021

5.0 KB

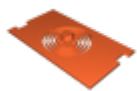


Rack.stl

updated 27. 12. 2021

46.5 KB





Spring and Gear.stl

updated 27. 12. 2021

451.4 KB



Spring.stl

updated 27. 12. 2021

313.2 KB



Gear.stl

updated 27. 12. 2021

177.5 KB



38mm

3 files



Base 38mm with Custom Support.stl

updated 27. 12. 2021

44.4 KB



Base 38mm.stl

updated 27. 12. 2021

30.4 KB



Base Ribbon 38mm.stl

updated 27. 12. 2021

1.8 KB



68mm

3 files



Base 68mm.stl

updated 27. 12. 2021

30.4 KB





Base 68mm with Custom Support.stl

updated 27. 12. 2021

44.4 KB



Base Ribbon 68mm.stl

updated 27. 12. 2021

1.8 KB



98mm

3 files



Base 98mm.stl

updated 27. 12. 2021

30.4 KB



Base 98mm with Custom Support.stl

updated 27. 12. 2021

44.4 KB



Base Ribbon 98mm.stl

updated 27. 12. 2021

1.8 KB



128mm

3 files



Base 128mm with Custom Support.stl

updated 27. 12. 2021

44.4 KB



Base 128mm.stl

updated 27. 12. 2021

30.4 KB





Base Ribbon 128mm.stl

updated 27. 12. 2021

1.8 KB



158mm

3 files



Base 158mm with Custom Support.stl

updated 27. 12. 2021

44.4 KB



Base 158mm.stl

updated 27. 12. 2021

30.4 KB



Base Ribbon 158mm.stl

updated 27. 12. 2021

1.8 KB



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