



Twist Lock Present

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printy

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Summary

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

[Seasonal designs](#) > [Winter & Christmas & New Year's](#)

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

This trick present has a hidden latch mechanism that will keep it securely closed until you twist the topper on the lid.

Printing

For a square boxes you will need

- 1 square_lid
- 1 square_base_[small/medium/large]
- 1 square_spring
- 2 square_latch
- 4 square_base_[small/medium/large]_ribbon
- 4 square_lid_ribbon
- 1 gear
- 1 Topper from this project or any other Twist Lock Box Project

For the flat boxes, you will need

- 1 flat_lid_[medium/large]
- 1 flat_base_[medium/large]
- 1 flat_spring_[medium/large]
- 2 flat_latch[medium/large]
- 4 flat_base_ribbon
- 2 flat_lid_[medium/large]_ribbon_short
- 2 flat_lid_[medium/large]_ribbon_long
- 1 gear
- 1 Topper from this project or any other Twist Lock Box Project

For the rectangle boxes, you will need

- 1 rectangle_lid_[medium/large]
- 1 rectangle_base_[medium/large]_[short/medium/tall]
- 1 rectangle_spring_[medium/large]
- 2 rectangle_latch[medium/large]
- 4 rectangle_base_ribbon_[short/medium/tall]
- 2 rectangle_lid_[medium/large]_ribbon_short
- 2 rectangle_lid_[medium/large]_ribbon_long
- 1 gear
- 1 Topper from this project or any other Twist Lock Box Project

All parts can be printed without supports.

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.

Make sure to print the correct number of lid ribbons and base ribbons.

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.

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This remix is based on



Twist Lock Trick Box (Hexagon)

by 3D Printy



Twist Lock Trick Box (Square)

by 3D Printy

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

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explosion_view.3mf

updated 28. 11. 2021

88.7 KB













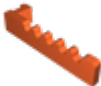





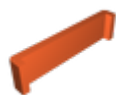
topper_tree.stl

updated 28. 11. 2021

88.9 KB



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	topper_bow_flat.stl updated 28. 11. 2021	314.6 KB	
	topper_bow_round.stl updated 28. 11. 2021	205.5 KB	
	square_lid.stl updated 28. 11. 2021	40.7 KB	
	square_lid_ribbon.stl updated 28. 11. 2021	6.7 KB	
	square_spring.stl updated 28. 11. 2021	337.2 KB	
	square_latch.stl updated 28. 11. 2021	67.4 KB	
	square_base_small.stl updated 28. 11. 2021	28.4 KB	



square_base_small_ribbon.stl
updated 28. 11. 2021

1.8 KB



square_base_medium.stl
updated 28. 11. 2021

28.4 KB



square_base_medium_ribbon.stl
updated 28. 11. 2021

1.8 KB



square_base_large.stl
updated 28. 11. 2021

28.4 KB



square_base_large_ribbon.stl
updated 28. 11. 2021

1.8 KB



flat_lid_medium.stl
updated 28. 11. 2021

39.5 KB



flat_spring_medium.stl
updated 28. 11. 2021

333.4 KB



flat_lid_medium_ribbon_short.stl
updated 28. 11. 2021

6.7 KB





flat_lid_large.stl

updated 28. 11. 2021

36.8 KB



flat_lid_medium_ribbon_long.stl

updated 28. 11. 2021

6.3 KB



flat_spring_large.stl

updated 28. 11. 2021

364.7 KB



flat_lid_large_ribbon_short.stl

updated 28. 11. 2021

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flat_lid_large_ribbon_long.stl

updated 28. 11. 2021

5.4 KB



flat_base_medium.stl

updated 28. 11. 2021

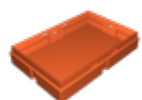
23.7 KB



flat_base_ribbon.stl

updated 28. 11. 2021

1.8 KB



















flat_base_large.stl

updated 28. 11. 2021

23.7 KB



	flat_latch_large.stl updated 28. 11. 2021	61.7 KB	
	flat_latch_medium.stl updated 28. 11. 2021	67.4 KB	
	gear.stl updated 28. 11. 2021	177.5 KB	
	rectangle_base_ribbon_short.stl updated 16. 12. 2021	1.8 KB	
	rectangle_lid_large_ribbon_long.stl updated 16. 12. 2021	5.4 KB	
	rectangle_lid_large_ribbon_short.stl updated 16. 12. 2021	6.3 KB	
	rectangle_base_ribbon_tall.stl updated 16. 12. 2021	1.8 KB	
	rectangle_base_large_medium.stl updated 16. 12. 2021	23.7 KB	



rectangle_lid_medium_ribbon_short.stl
updated 16. 12. 2021

6.7 KB



rectangle_latch_large.stl
updated 16. 12. 2021

61.7 KB



rectangle_base_ribbon_medium.stl
updated 16. 12. 2021

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rectangle_latch_medium.stl
updated 16. 12. 2021

67.4 KB



rectangle_base_large_short.stl
updated 16. 12. 2021

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rectangle_base_medium_tall.stl
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rectangle_base_medium_short.stl
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rectangle_lid_medium_ribbon_long.stl
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rectangle_base_medium_medium.stl

updated 16. 12. 2021

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rectangle_lid_largle.stl

updated 16. 12. 2021

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rectangle_base_large_tall.stl

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rectangle_lid_medium.stl

updated 16. 12. 2021

39.5 KB



rectangle_spring_medium.stl

updated 16. 12. 2021

333.4 KB



rectangle_spring_large.stl

updated 16. 12. 2021

364.7 KB



Merged Spring - Flat Large.stl

updated 7. 2. 2022

402.1 KB



Merged Spring - Flat Medium.stl

updated 7. 2. 2022

400.8 KB





Merged Spring - Square.stl

updated 7. 2. 2022

419.7 KB



Twist Lock Present.step

updated 11. 3. 2022

4.4 MB



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