



## Puzzle vault with a secret compartment



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## Summary

Puzzle Vault with a secret compartment.

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Puzzle Vault with a secret compartment. No supports are required. All files are oriented correctly for printing.

You will require;

1 M3x10mm fastener

1 Ball bearing 7mm in diameter

5 neodymium round magnets 8x3mm

Make sure your magnets are correctly oriented for attraction before you glue them in. 2 go in the middle section, 2 in the medallions and 1 in the bottom secret compartment.

Super glue the middle section and the bottom section together.

Construction is self explanatory, use the pictures for reference, everything can only fit one way except the Top Lid Lock to which the small protrusion needs to face towards the bottom of the box when installing.

The floating ball bearing in the lid locks the lid when the box is in the upright position. To place the lid on the box you must turn it upside down, push the lock in all the way and then place the box on the lid. Then turn both the box and the lid upright and the ball bearing will drop into place locking it.

Unlocking is the reverse of the above except you have to also turn the entire box to one side for the lid lock to retract to free the lid.

Use the medallion to gain access to the secret compartment as shown in the video.

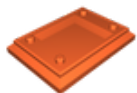
MMU files included for the middle scrolls and side medallions.

The pattern that is visible on the lid and bottom of the Aztec Vault Puzzle is simply a setting in Prusa Slicer. In infill settings set your bottom layer type to Octagram Spiral.

UPDATE: Added a double lock system lid and mechanism for a more secure lid when locked, you will need an extra 10mm M3 fastener. The rest of the box is the same. It is the same principle as the single lock lid except with this one it is more secure and if you want to unlock it just turn the whole box upside down and jiggle the lid and it will unlock.

Happy printing.

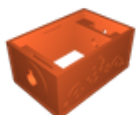
## Model files



**bottom.stl**



**bottom-secret-compartment.stl**



**middle.stl**



**medallion-mmu-b.stl**

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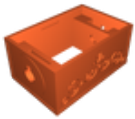
**medallion-mmu-a.stl**

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**middle-scrolls-mmu-a.stl**

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**middle-mmu-b.stl**

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**medallion.stl**

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**top-lid-lock.stl**

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**top-lid-lock-housing.stl**

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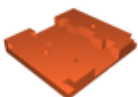
**top.stl**

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**top-lid-lock-double-lock.stl**

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**top-lid-lock-housing-double-lock.stl**

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top-double-lock.stl

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