



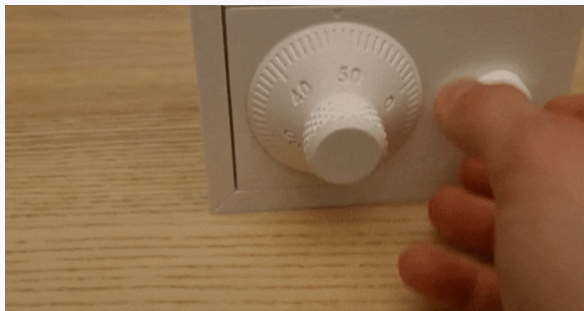
Safe box - 3 digit combination

Maxxeshop3D

same logo as before

Maxxeshop3D branded product sheet

PRODUCT VISUAL



PRODUCT OVERVIEW

Working 3-digit combination safe box

A printable demonstration safe designed to keep small items tucked away while showing how a basic three-disk combination mechanism works.

Gadgets

Learning build

PLA

Source author listed in the attached PDF: **Hugo**. The source also marks the model as **3D MODEL ONLY**.

USE CASE

Functional demo piece

Shows a real turning dial, lever, latch, and box assembly.

MECHANISM

Three-digit lock

A learning-friendly build that helps explain how aligned notches release the lever.

PRINT SETUP

PLA - 0.2 mm - 20% infill

No supports. Orientation matters for strength on select parts.

LICENSE

CC BY-NC-SA 4.0

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Source summary

This Maxxeshop3D rewrite keeps the product facts from the attached source while replacing the original marketplace presentation. The original description says the model is a working 3-digit combination safe box intended to keep important belongings protected, while also serving as a long but useful build for understanding how a combination safe works.

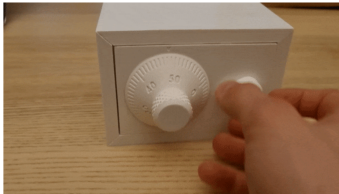
What changed in this rewrite

- Original marketplace branding removed
- Same Maxxeshop3D logo integrated across the full document
- Instructions reorganized into a cleaner branded reference sheet



Recommended source settings: PLA - 0.2 mm layer height - 20% infill - no supports. The source warns that print orientation matters for strength on both axes, both pivots, the pins, and the latch.

AXLES ORIENTATION



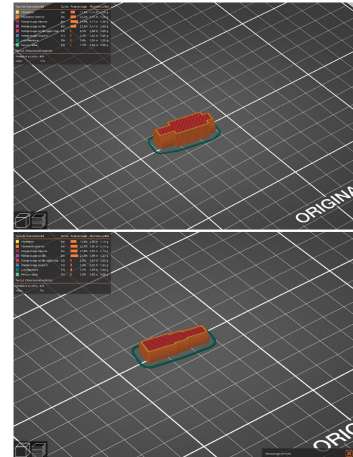
Printing instructions :

Start by printing all the parts I provide, I used PLA with 0.2mm layer height and 20% infill for everything and non support.

For some part the printing orientation is quite important for the strength, so this is the orientation for the parts you may have a doubt with :

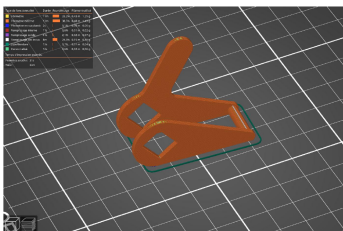
Both axle are printed on the side for better strength :

LEVER ORIENTATION

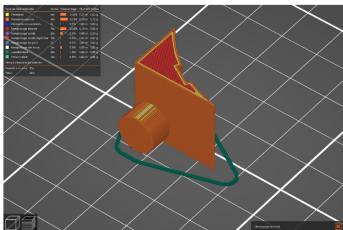


The lever is printed like this :

PIVOTS AND PINS

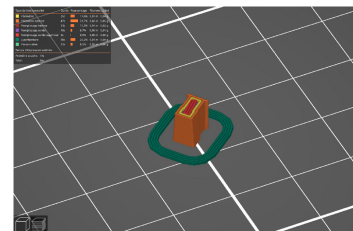


Both pivots are printed on the side :

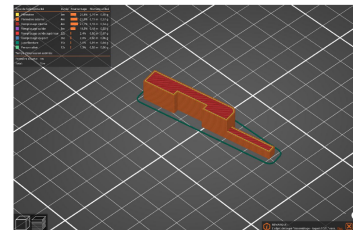


The pins are printed like this :

LATCH ORIENTATION



The latch is printed like this :



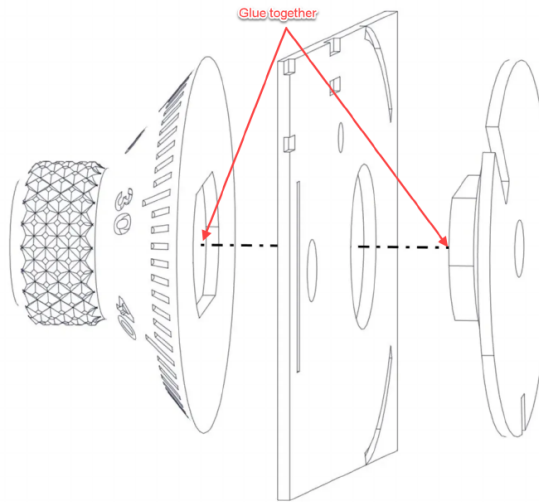
All the other parts orientations should be pretty obvious.



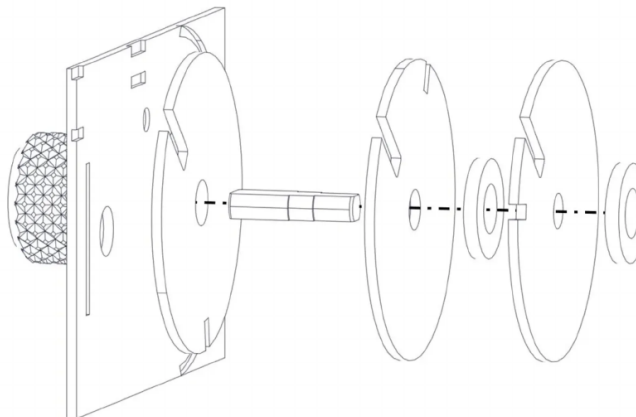
Door and dial assembly: 1. Glue the dial to disk_1 through the front_plate. 2. Add axle_1, the remaining disks, and the spacers with no glue. 3. Glue the pins to each disk; on disk_1 and disk_3 the longer part faces the centre, and the centre pin is the biggest.

Building instructions :

1. Glue the dial with the disk_1 through the front_plate :



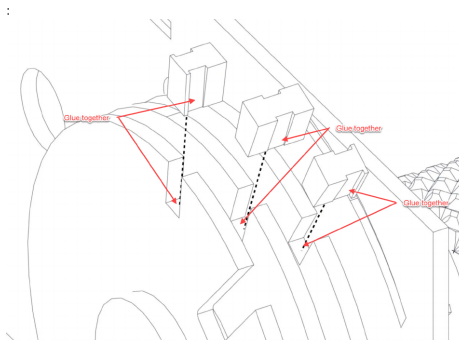
2. Add the axle_1, the 2 remaining disks and the spacers, no glue required :



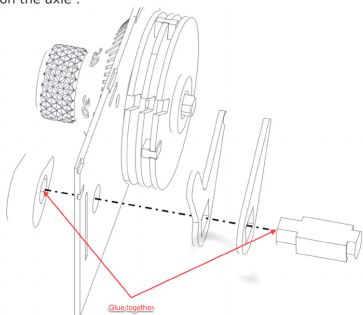
3. Glue the pins to each disk. On disk_1 and disk_3 the longer part should be facing towards the centre, and the centre pin is the biggest



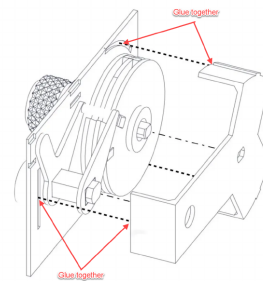
Lock body assembly: 4. Glue the knob to axle_2 through the front plate, then place the lever on the axle. 5. Close the door assembly by gluing the back_plate to the front_plate. 6. Place the latch over the lever arm and secure it with the two latch guides.



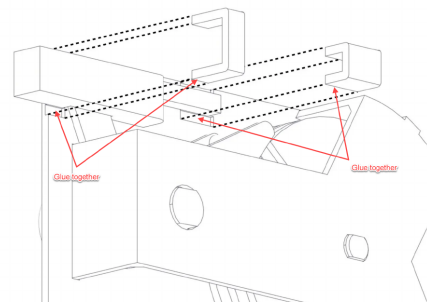
4. Glue the knob to the axle_2 through the front plate, and then place the lever on the axle :



5. Close the door assembly by gluing the back_plate to the front_plate :



6. Place the latch over the lever's arm and secure it by gluing the 2 latch guides in their dedicated spot :



After this step, the assembly should look like this :

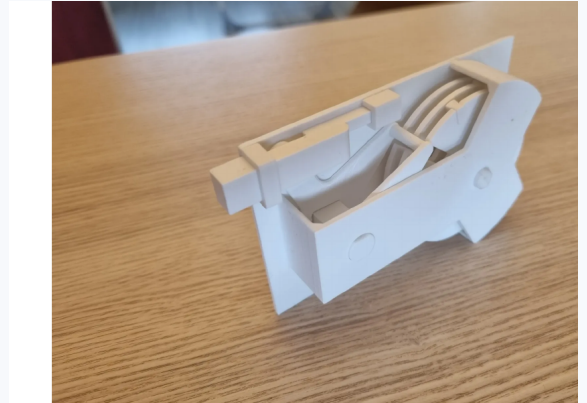


SET THE COMBINATION

Combination sequence from the source

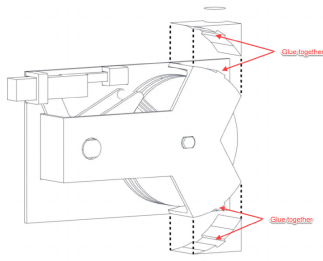
- Turn the dial clockwise three times to connect all three disks.
- Keep turning clockwise until disk_3 lines up with the lever and note the first number.
- Turn counterclockwise one full turn past the first number to engage the middle disk, then continue until it lines up and note the second number.
- Turn clockwise until the first disk lines up. When all three notches align, note the third number and test the unlock.

MECHANISM PHOTO

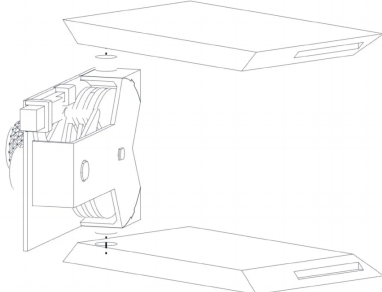


Keep the final three-number combination written down after testing the mechanism.

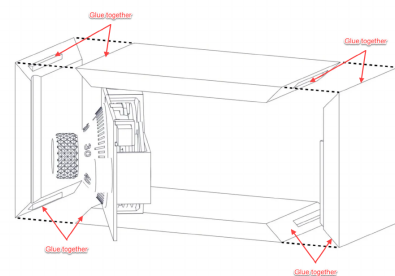
7. Glue the 2 pivots to the door assembly :



8. To assemble the box start by placing the top and bottom walls on the pivots (no glue) :



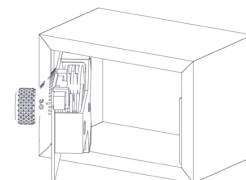
9. Glue the 2 side walls :



When gluing the sides, do it with the door closed so you can see that everything is well centered.

At this point you should test to lock and unlock the door a couple of times to test the combination before gluing the back wall.

10. When you are sure of the combination you can glue the back wall to finish the safe :





Parts inventory and license note

same Maxxeshop3D identity with attached logo

Maxxeshop3D branded product sheet

MODEL FILES

Included printable pieces

front_plate.stl

dial.stl

disk_1.stl

pin_disk_1.stl

axle_1.stl

disk_2.stl

pin_disk_2.stl

disk_3.stl

pin_disk_3.stl

spacer_1.stl

spacer_2.stl

axle_2.stl

knob.stl

REMAINING FILES AND NOTES

Lock, guides, and box walls

lever.stl

back_plate.stl

latch.stl

latch_guide_tall.stl

latch_guide_short.stl

pivot_top.stl

pivot_bottom.stl

side_wall_latch_side.stl

side_wall_pivot_side.stl

wall_top.stl

wall_bottom.stl

back_wall.stl

full_assembly.3mf

License note

The attached PDF lists the source under Creative Commons 4.0 Attribution-NonCommercial-ShareAlike. This rewrite keeps that license note and retains attribution context while replacing the original storefront theme.

Branding note

This version keeps the model title, creator name, print guidance, build steps, file inventory, and license information, while switching the presentation to a clean Maxxeshop3D identity using the same attached logo as earlier revisions.