



Smaller Battery Box



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Summary

Convertible battery box that can hold up to 14 AAAs, 10 AAs and 7 18650s

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Tags: [aa](#) [aaa](#) [aaabattery](#) [aabattery](#) [battery](#)
[batteryholder](#) [case](#) [storage](#)

This remix of Michal Fanta's model has been made narrower to accommodate a smaller print bed.

The Changes and Additions:

- Overall width of box changed from 236mm to 204mm
- AAA and AA battery inserts have been recreated to hold batteries more efficiently
 - The new inserts can hold more AAAs and the same amount of AAs as the original
- STEP files made available for every main part (both for this remix and the original)

Parts:

- 8x - M3 6mm screw
- 6x - M3 8mm screw

- 2x - M3 12mm screw
 - (I used hex button head for all screws)
- 4x - 3x26mm metal rods (I cut a 2.75mm coat hanger and glued in)

Files to Print:

Necessary

- 2x - "latch_2x"
- 2x - "rod_closing_2x"
- 2x - "rod_long_middle_2x"
- 2x - "rod_short_bottom_2x"
- 2x - "rod_short_top_2x"
- AA Partition
- AAA partition
- Bottom
- Top

Inserts

I have created 2 new inserts for AA and AAA, however, I have made the original style holders smaller too (they will hold 4 less AAAs and 2 less AAs)

- "New AAA Insert" (holds more)
- "New AA Insert" (holds more)
- "Bottom liner" (omits the 18650 insert for a basic liner)
- "AAA Insert" (original style)
- "AA Insert" (original style)
- "18650 Insert" (original style)
- "Bottom Plain Insert" (omits the 18650 insert for a plain insert)

Notes:

No inserts have any clearances added (same as original), so proper calibration is needed, I also cut off any minor elephants' foot on the inserts. I did add some clearance to just the liner and AA insert.

I printed at 0.3 layer height, 0.6 line width as I am impatient :)

For more assembly info visit Michal's original model

This remix is based on



All-in-One Battery box

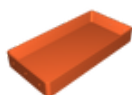
by Michal Fanta

Model files

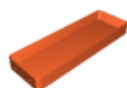


Necessary Files

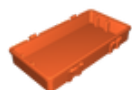
9 files



aa-partition.stl



aaa-partition.stl



bottom.stl



top.stl



rod_short_bottom_2x.stl



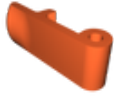
rod_short_top_2x.stl



rod_closing_2x.stl



rod_long_middle_2x.stl



latch_2x.stl

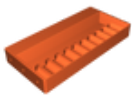


New Inserts

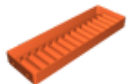
3 files



bottom-liner.stl



new-aa-insert.stl

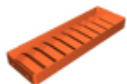


new-aaa-insert.stl

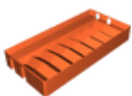


Original Style Inserts

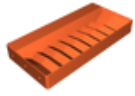
4 files



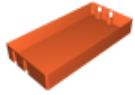
aaa-insert.stl



18650-insert.stl



aa-insert.stl



bottom-plain-insert.stl



STEP Files Modified

10 files



aaa-partition-condensed.step



aa-partition-condensed.step



aa-insert-condensed.step



new-aaa-insert-condensed.step



bottom-plain-insert-condensed.step



18650-insert-condensed.step



aaa-insert-condensed.step



new-aa-insert-condensed.step



bottom-condensed.step



top-condensed.step



STEP Files Original

7 files



aaa-partition.step



aa-partition.step



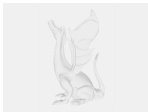
aaa-insert.step



aa-insert.step



18650-insert.step



bottom.step



top.step

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