



EIRSAT-1



5+

00001

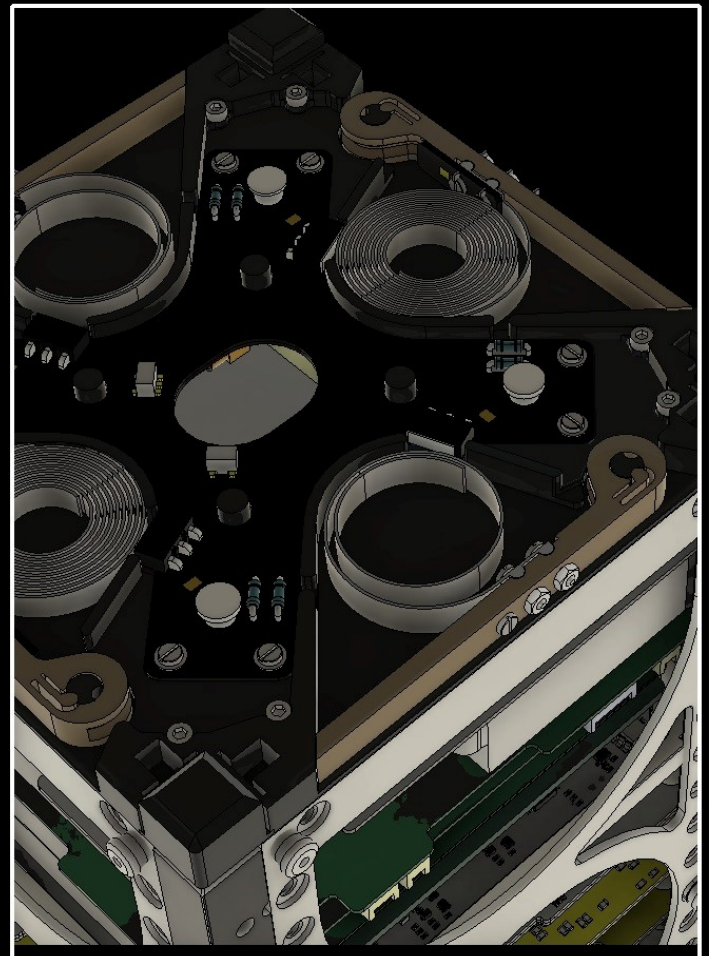
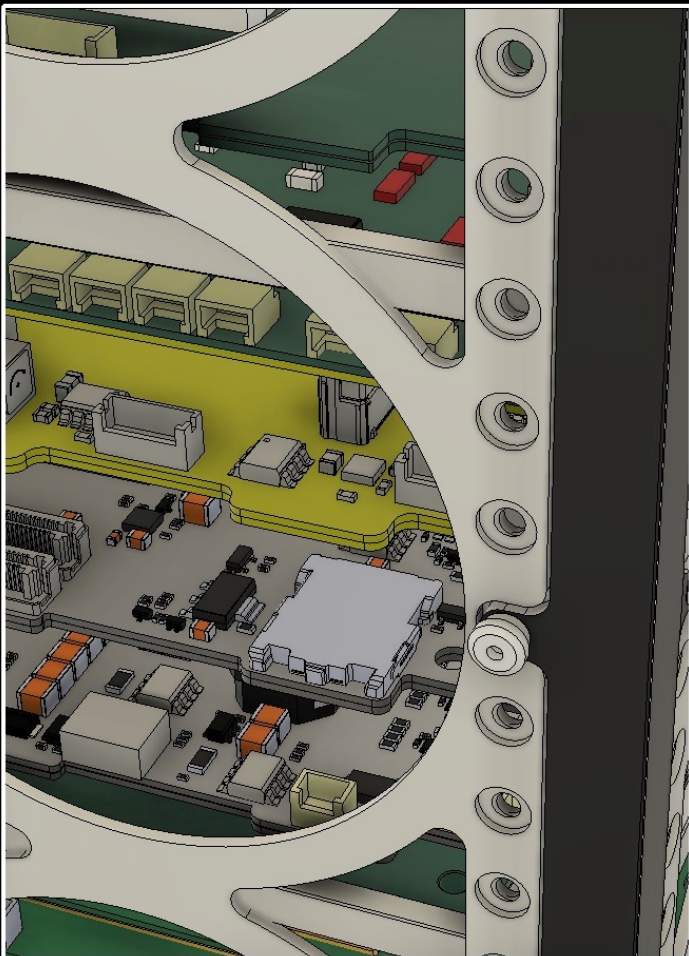
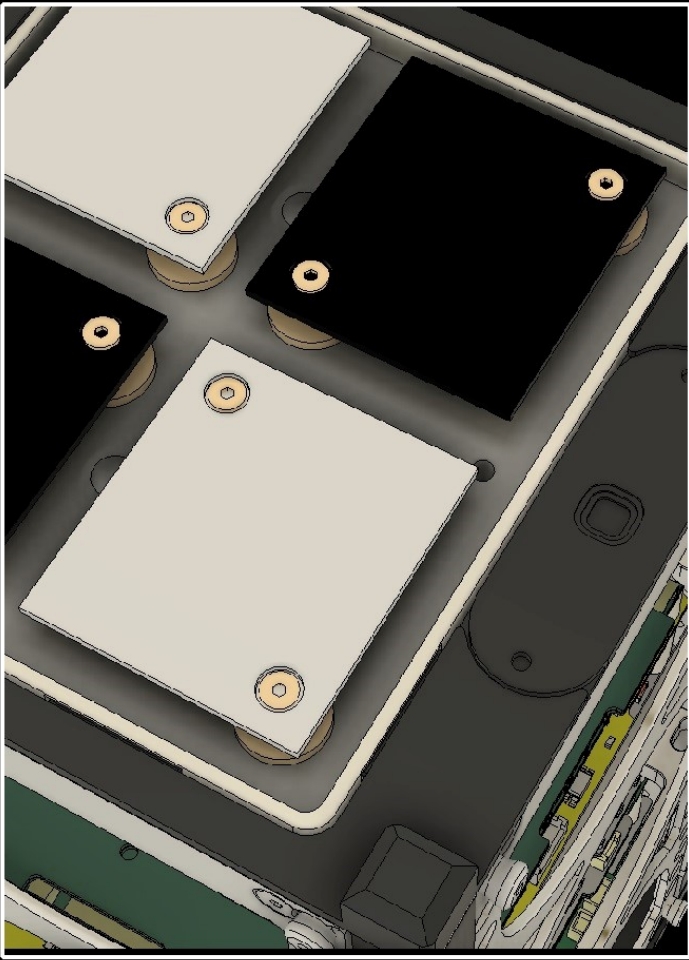
3D PRINTED

90 PCS

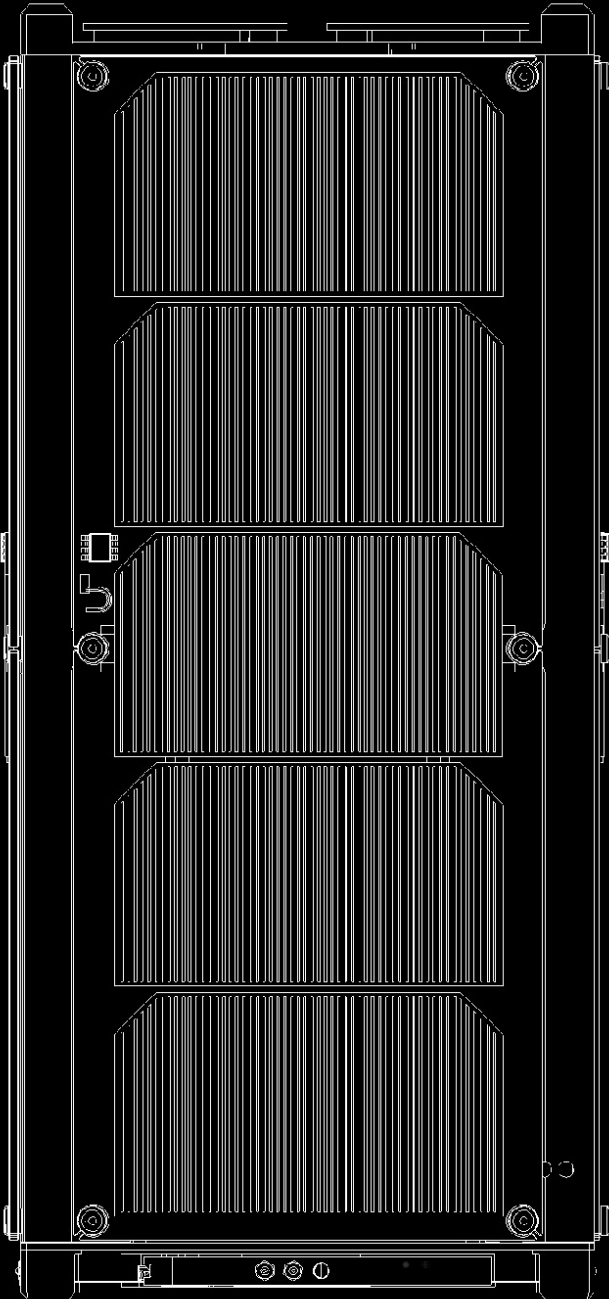
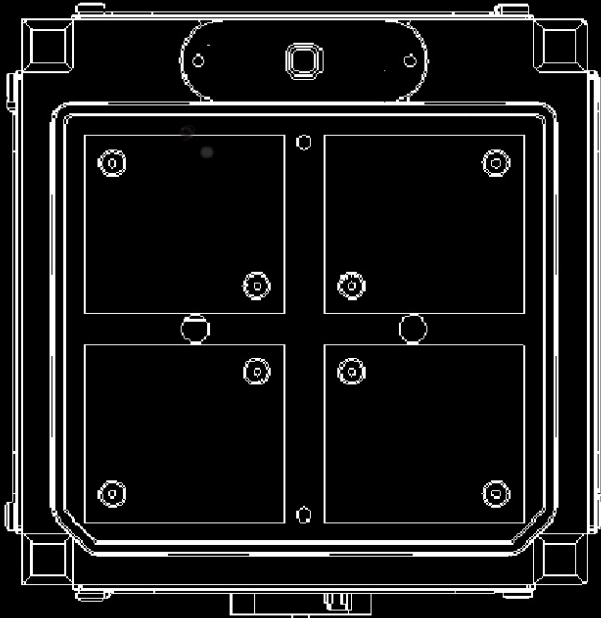


Fly Your Satellite!

EIRSAT-1



The 3D printable EIRSAT-1 model is based on the engineering CAD model designed by the EIRSAT-1 team. The printable model files were made by Michał Miszta (<https://themodelmaker.net/>) with guidance from David McKeown.



REAL LIFE MODEL FACT BOX

EIRSOFT-1

Mass: 2023g
Dimensions: 100 x 100 x 227 mm
Power Consumption: 2.2W (nominal mode)
Operational Orbit: 550 +/- 25km, SSO
Launch: Vandenberg, California, Nov 2023
Mission Lifetime: ~ 3 years

Team: University College Dublin

Research Centre: UCD Centre for Space Research (C-Space)

Programme: ESA Education 'Fly Your Satellite!'

Payloads:

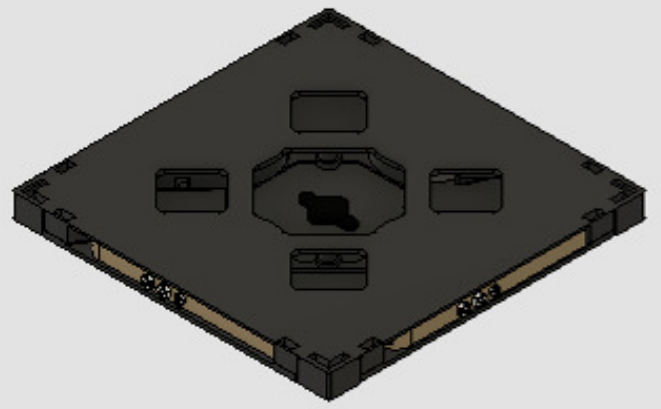
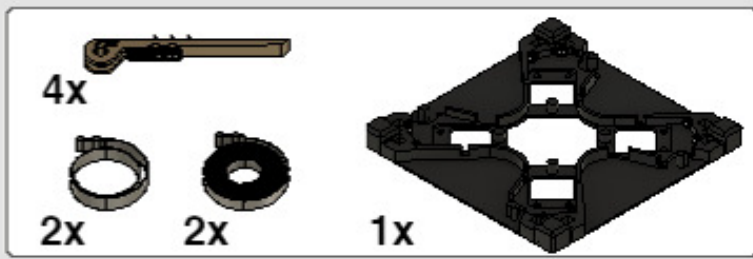
- **Gamma-ray Module [GMOD]:** A miniaturised sensor for use in the detection of gamma-rays from both cosmic and atmospheric phenomena.
- **Enbio Module [EMOD]:** A demonstration of Irish company ENBIO's thermal control coatings in Low Earth Orbit for the first time
- **Wave-Based Control [WBC]:** A testbed for attitude control algorithms. These allows the Satellite to change its orientation in space.

Print Instructions:

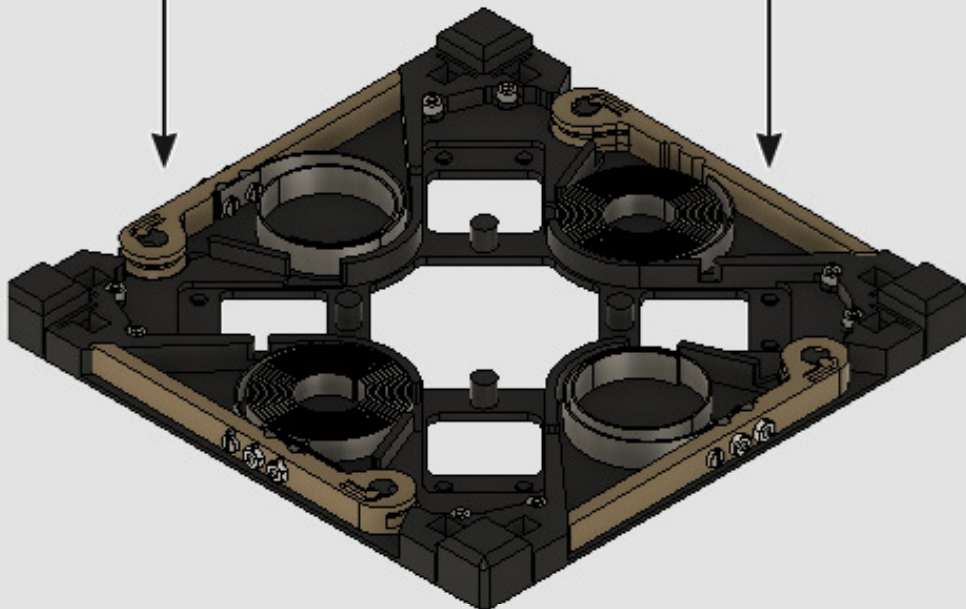
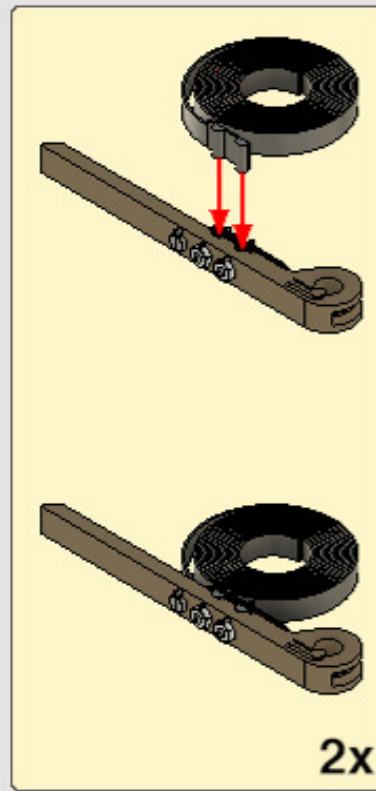
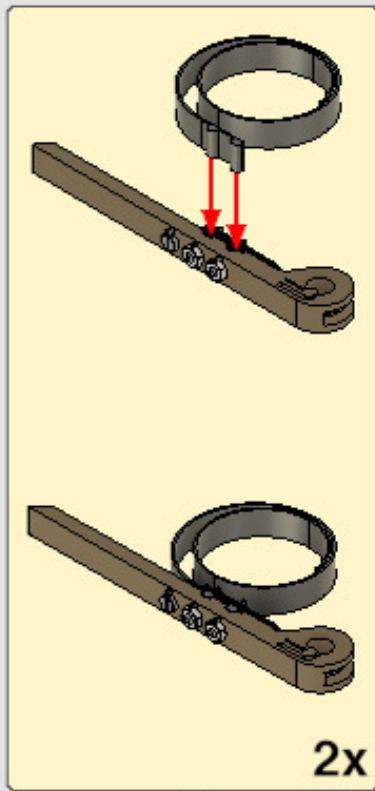
All parts should be printed flat and have been designed to print without added supports. The recommended filament material is PLA.

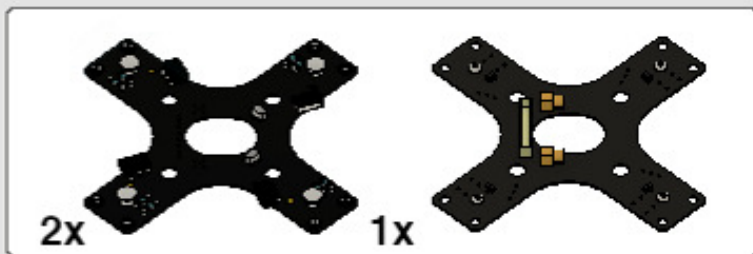
Depending on the accuracy of your 3D printer, it might be necessary to lightly sand parts to get a good fit.

Some parts require (super) gluing or to be heated with a hairdryer and bent into shape. Adult supervision is advised for these steps.

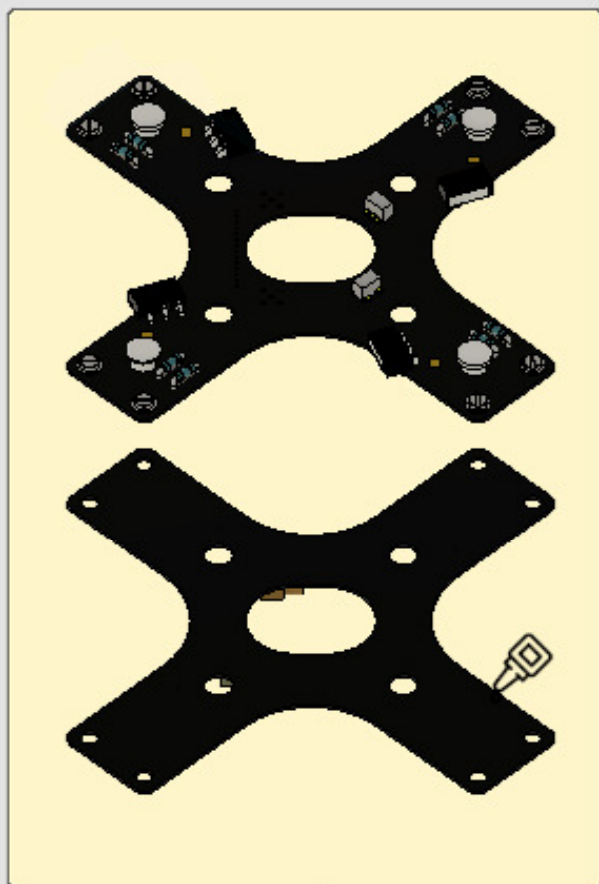


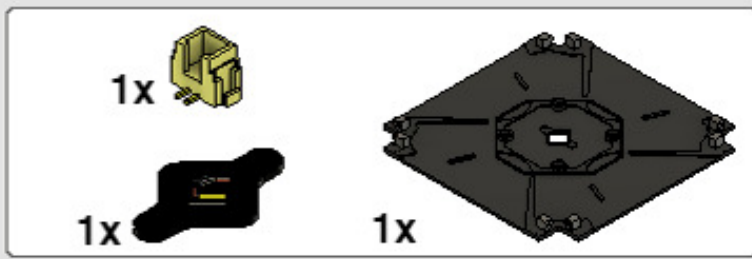
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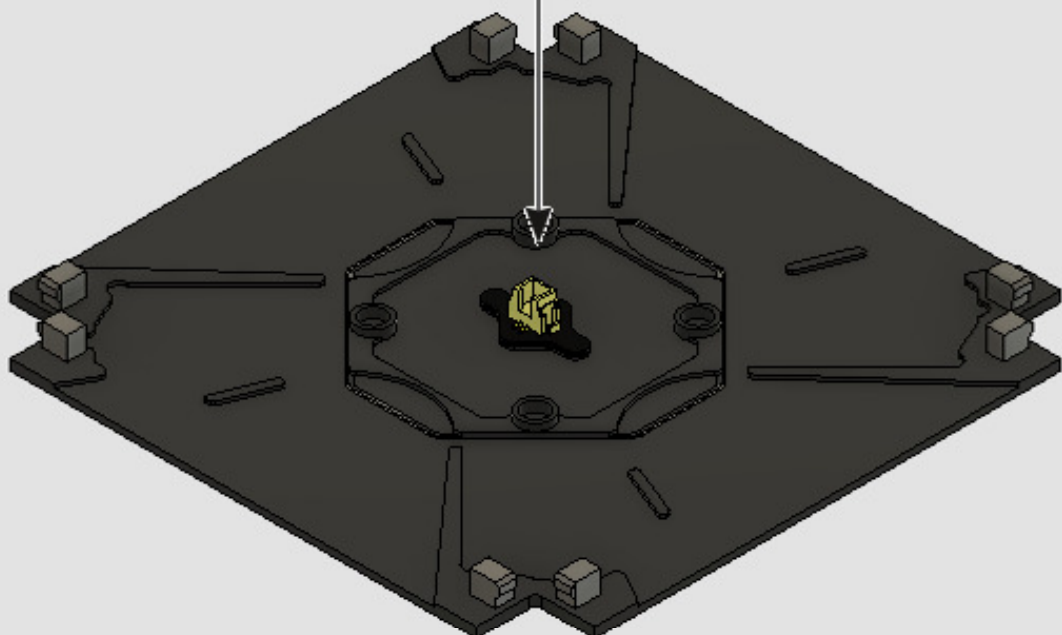
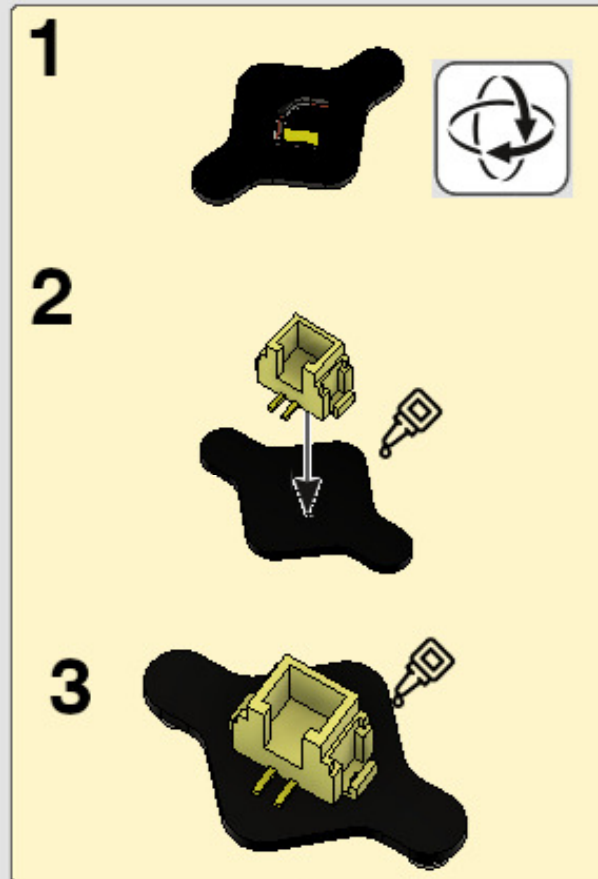


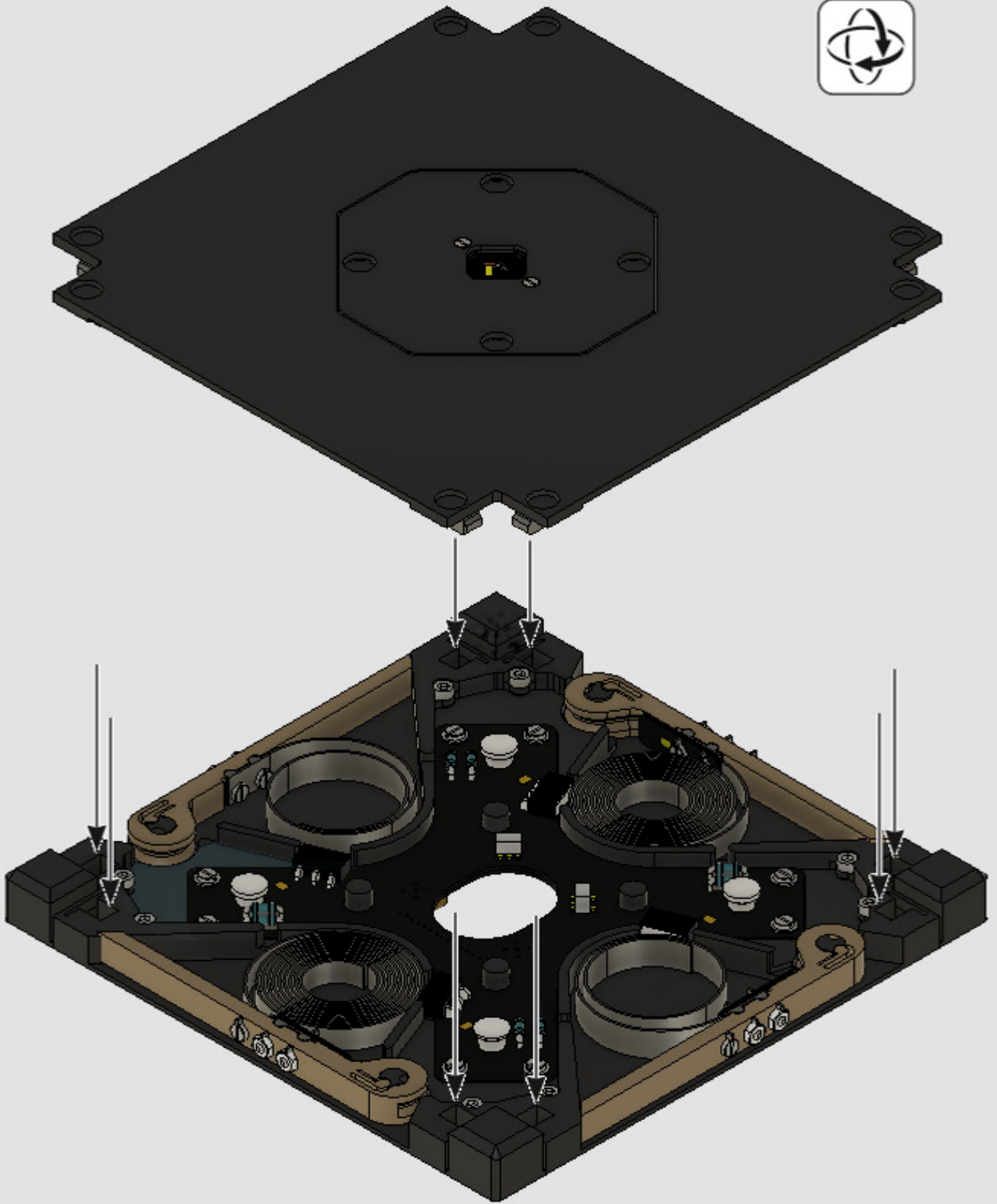
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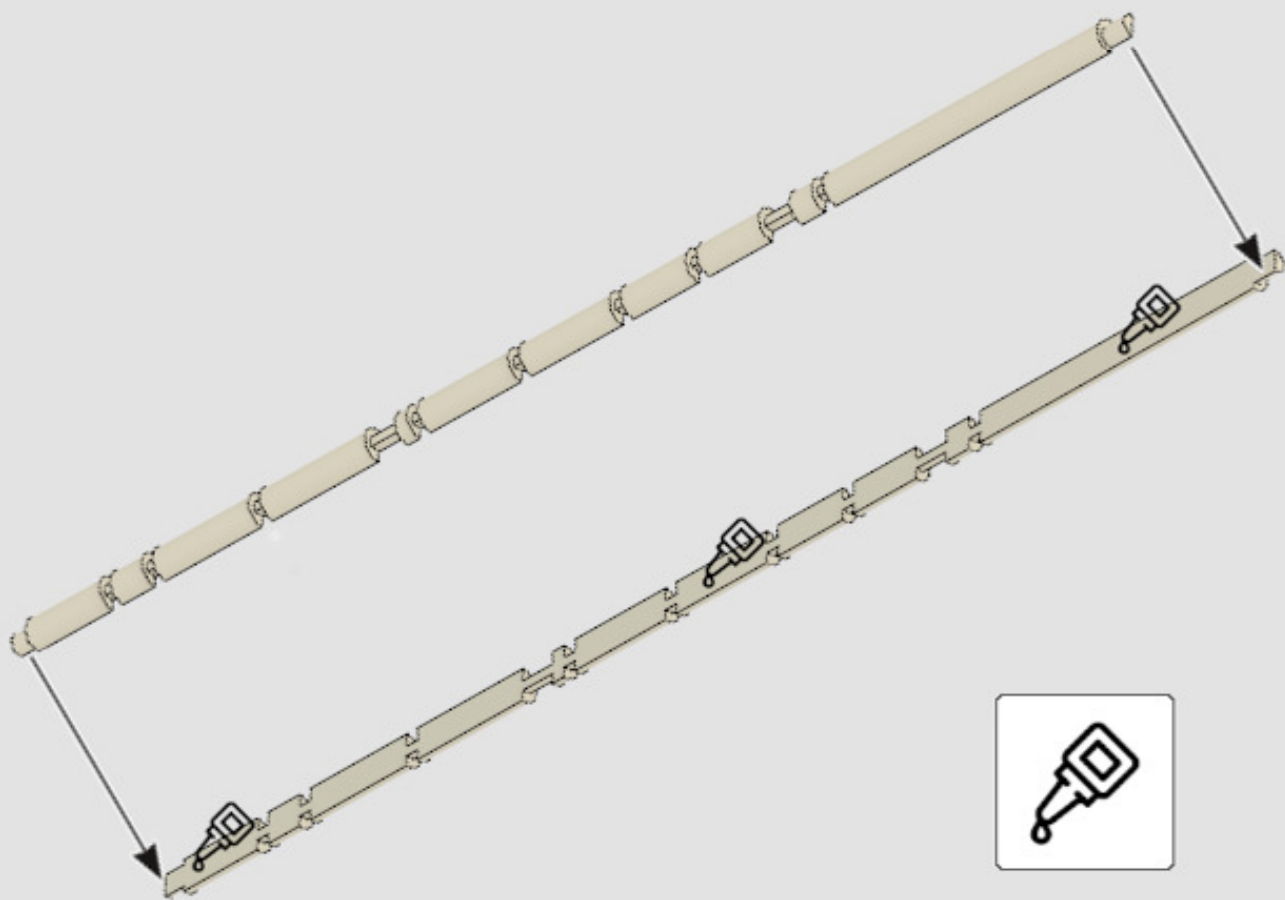
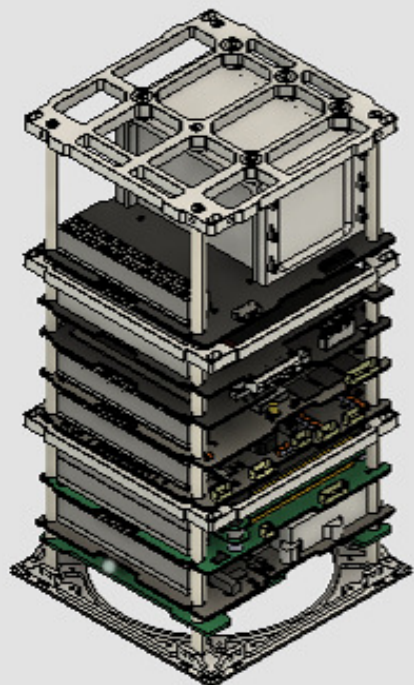
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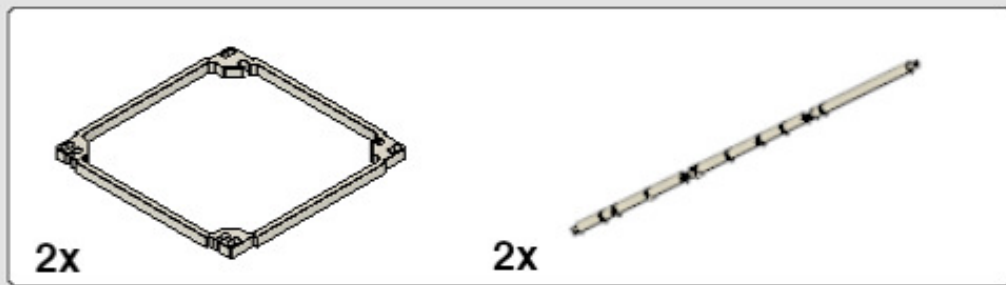




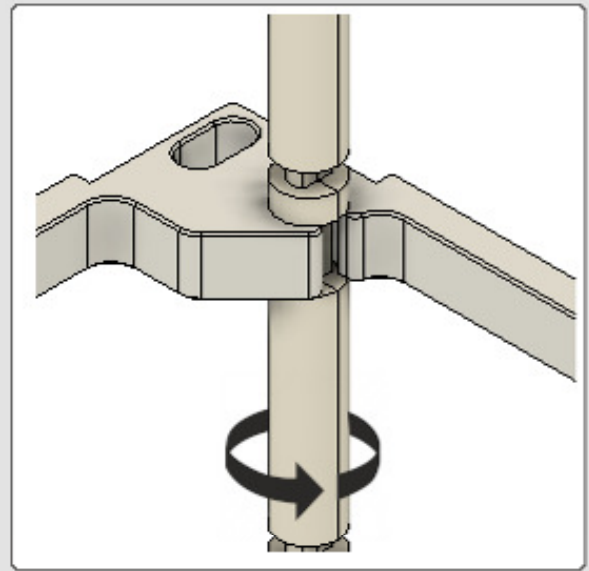
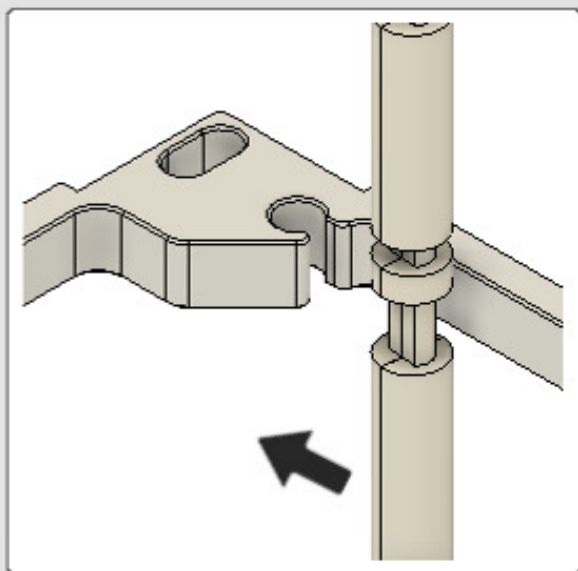
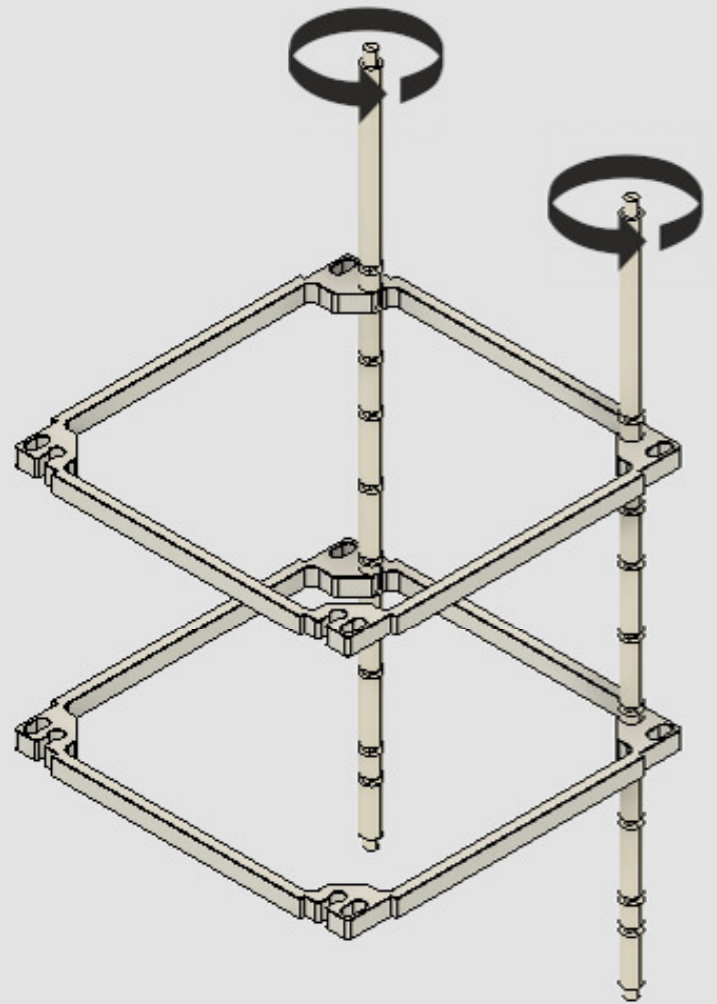
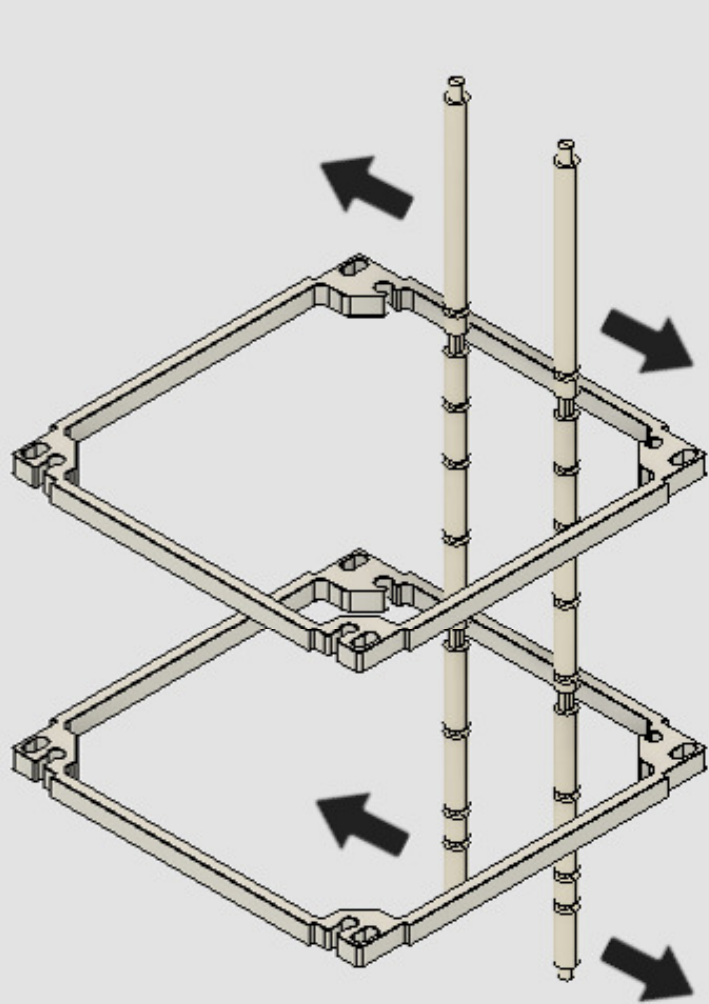


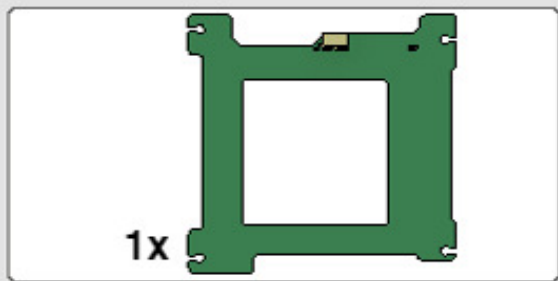
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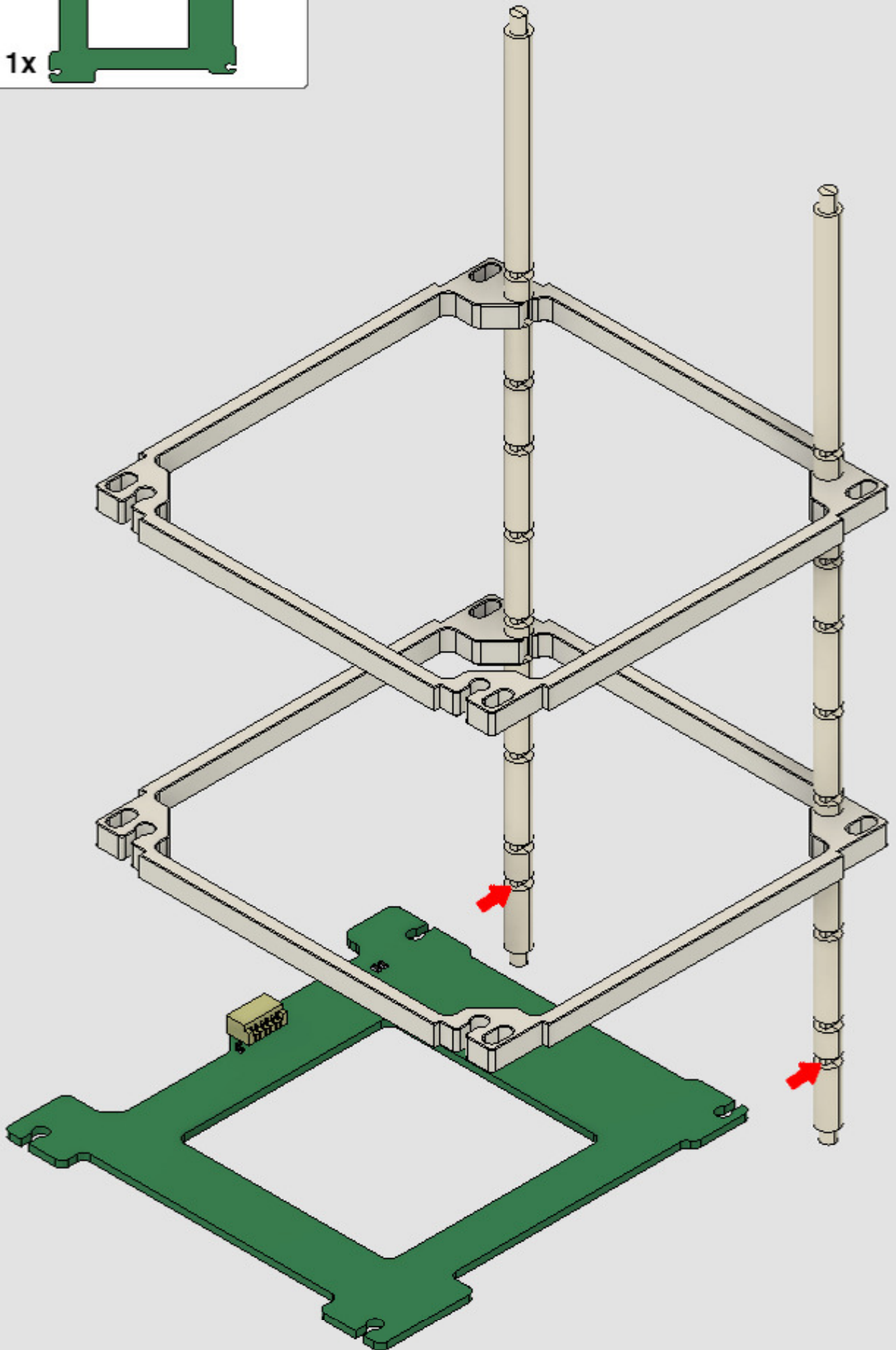


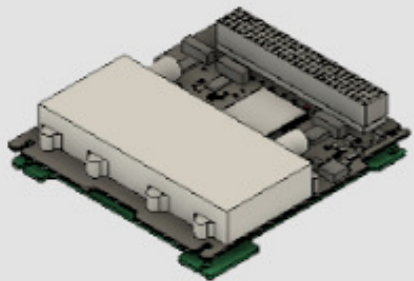
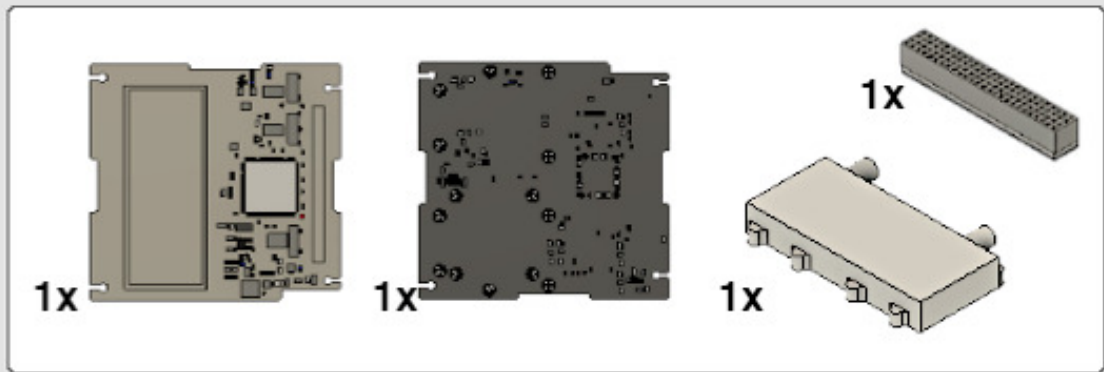
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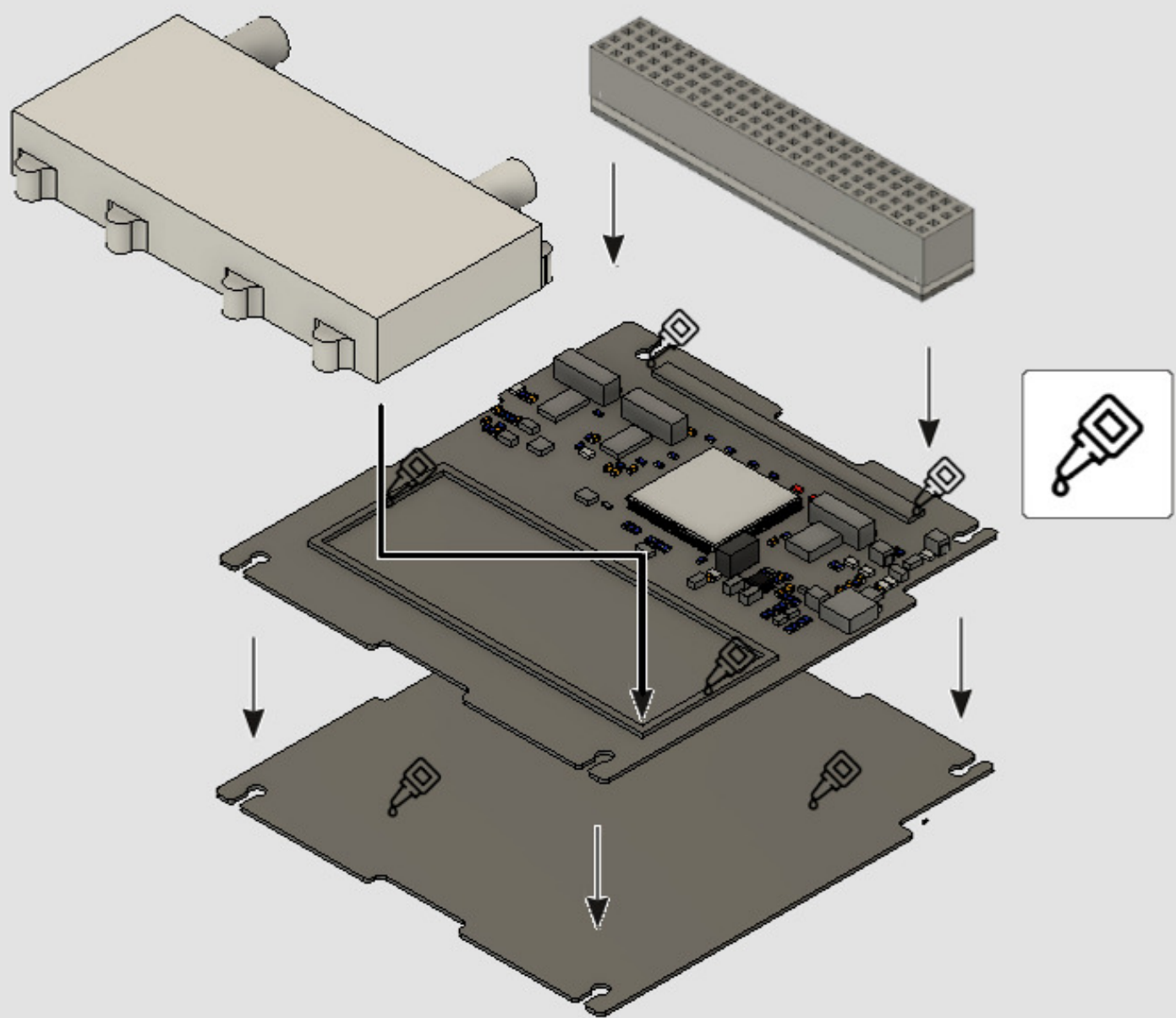


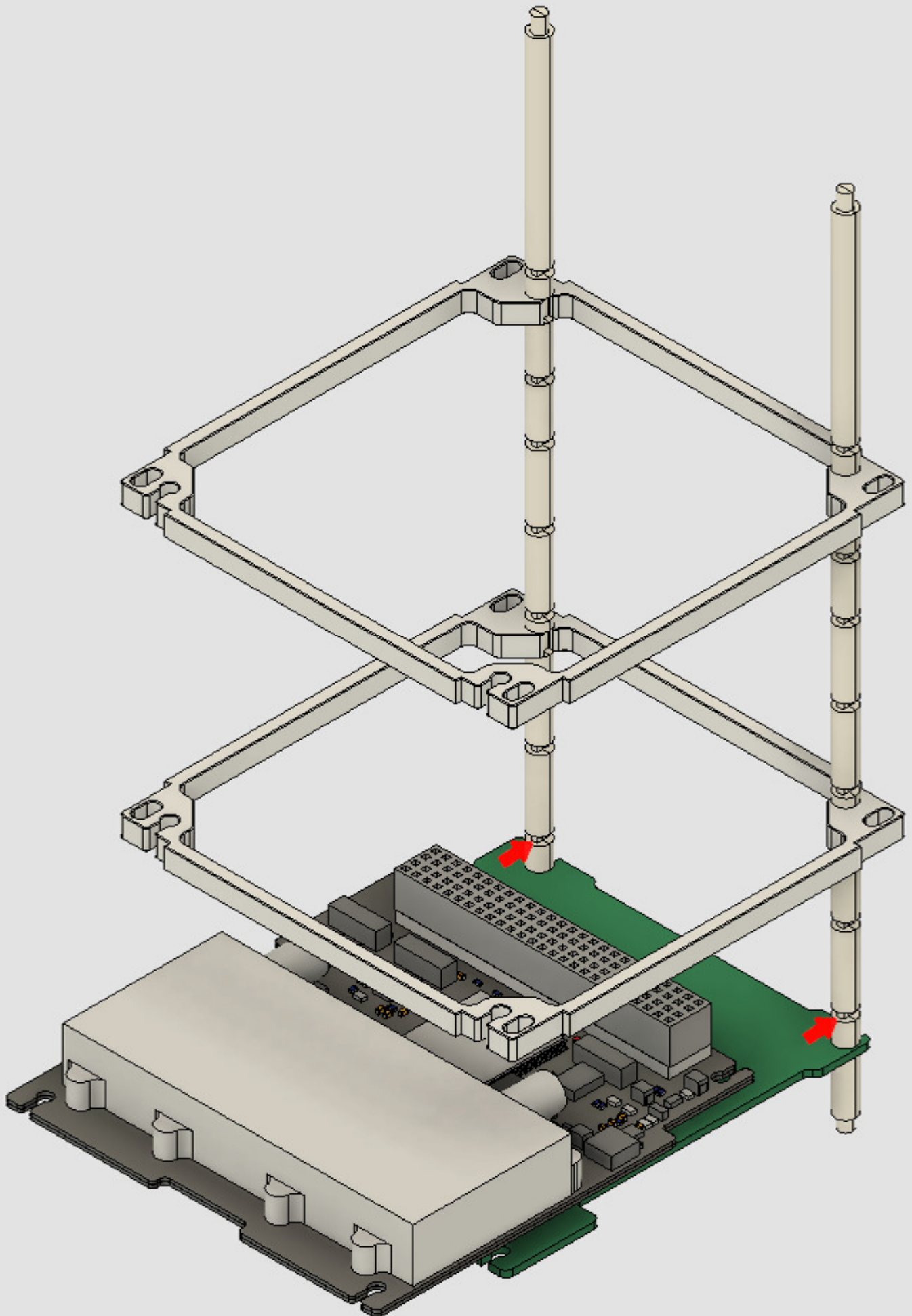
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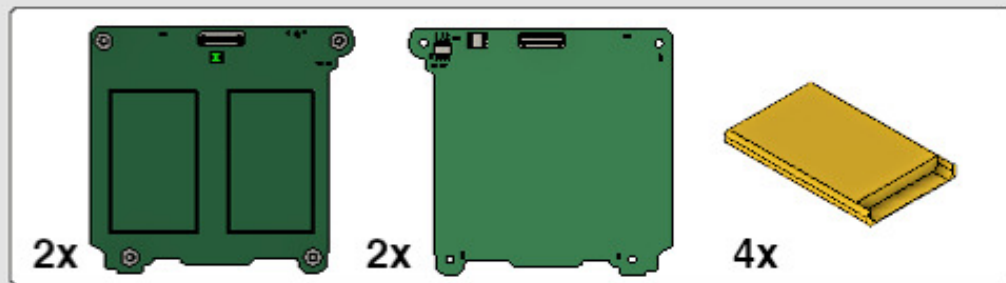




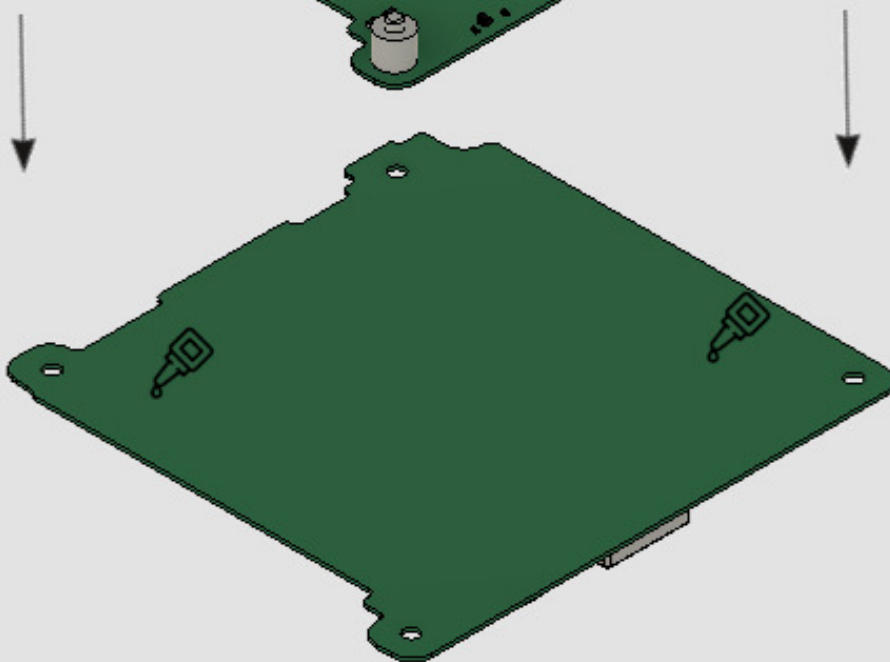
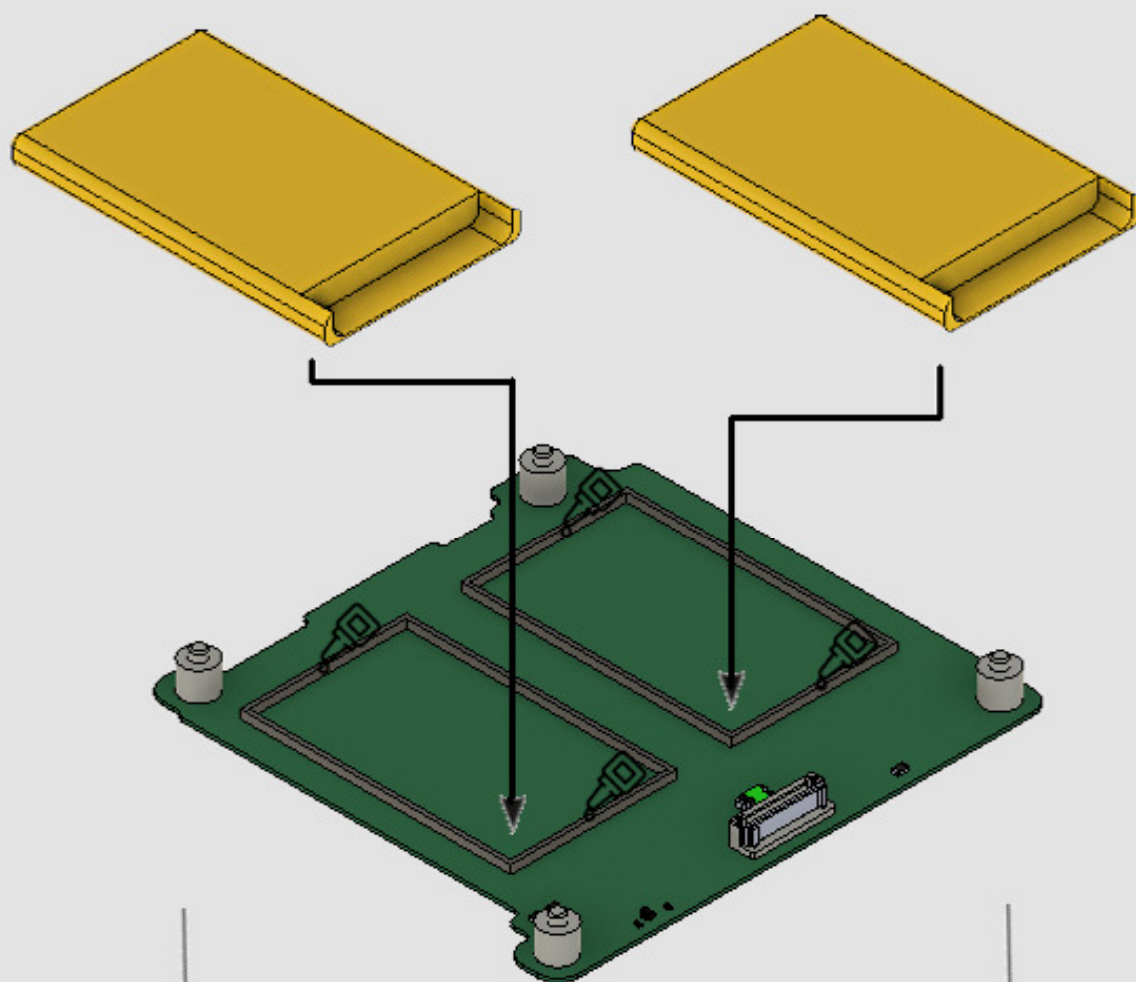
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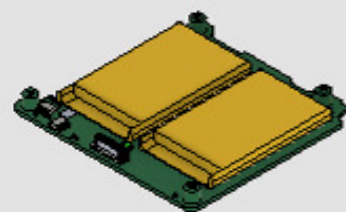
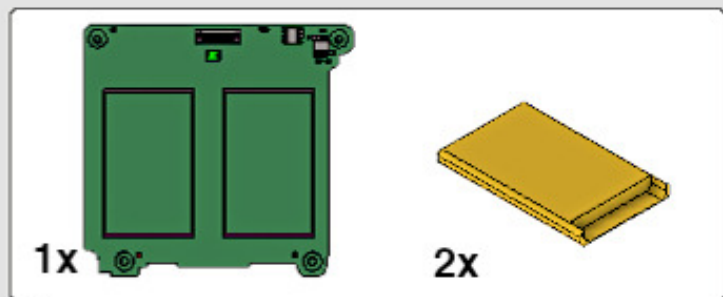




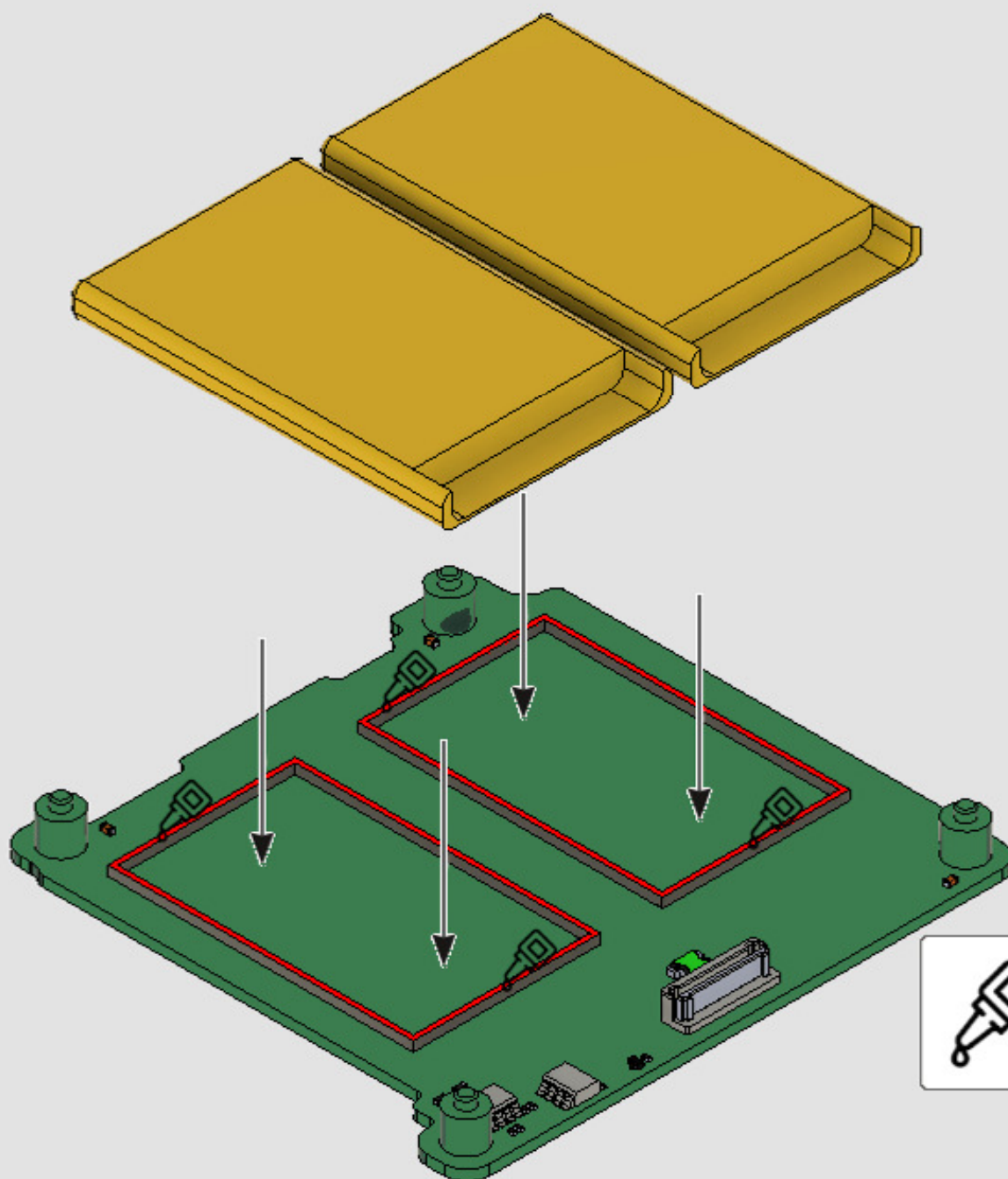


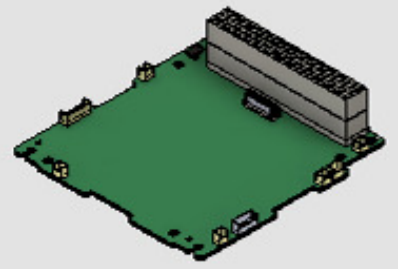
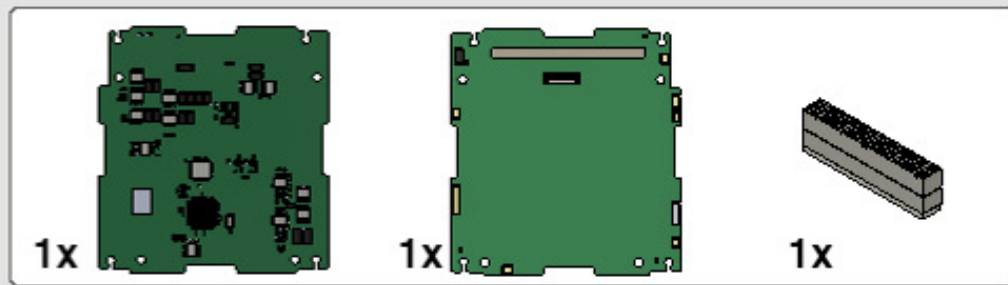
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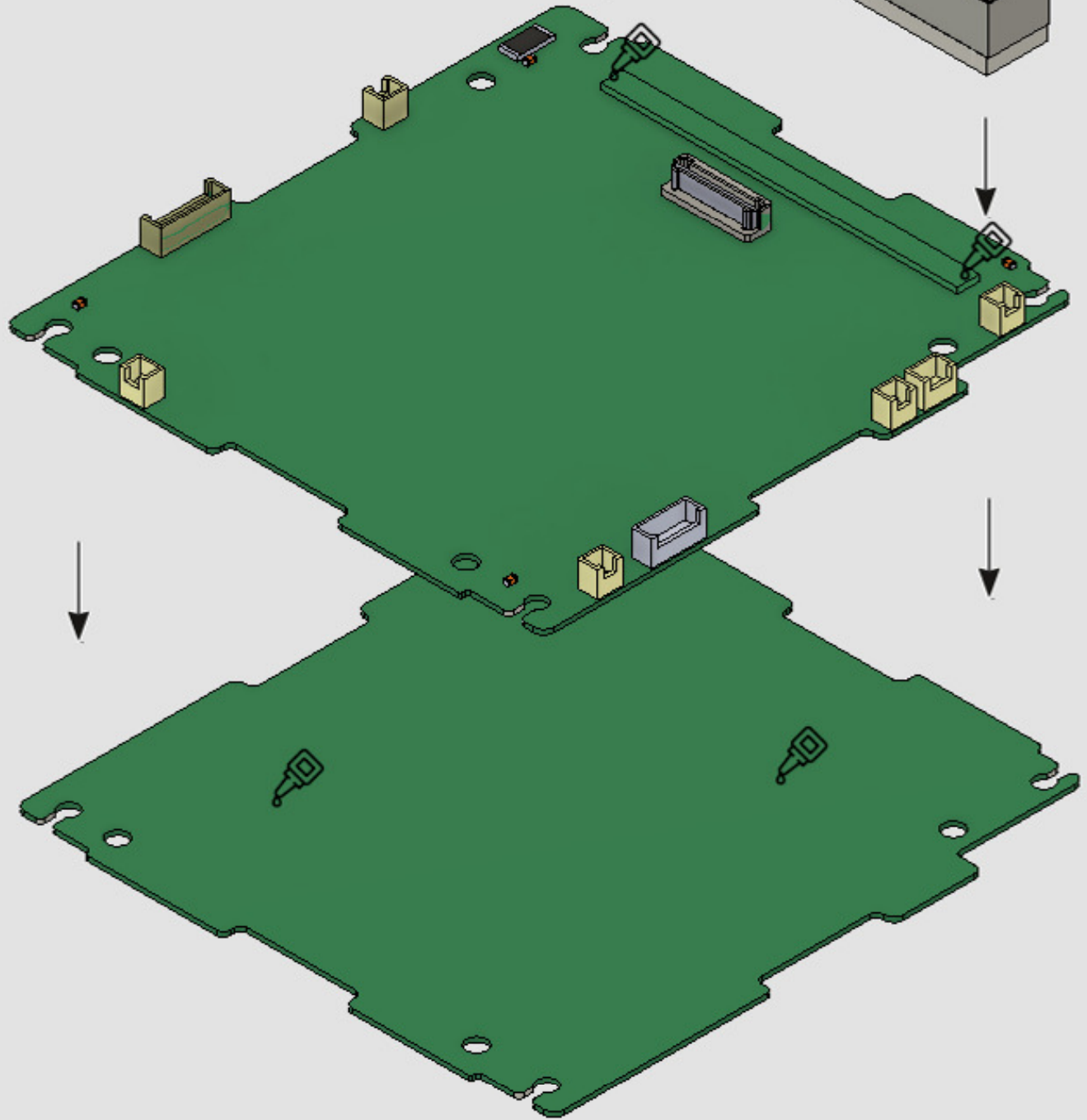
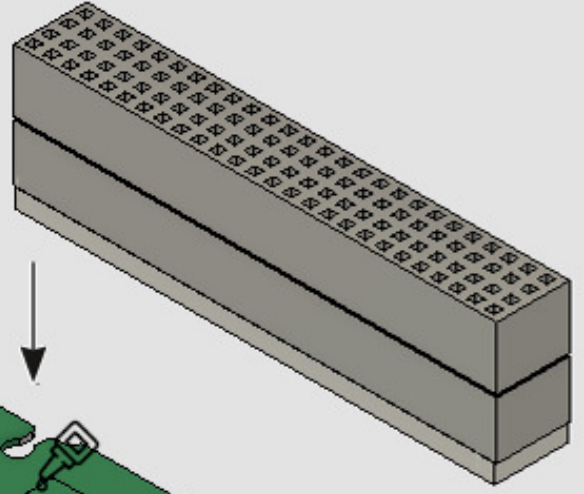


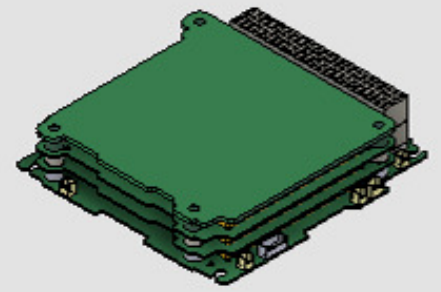
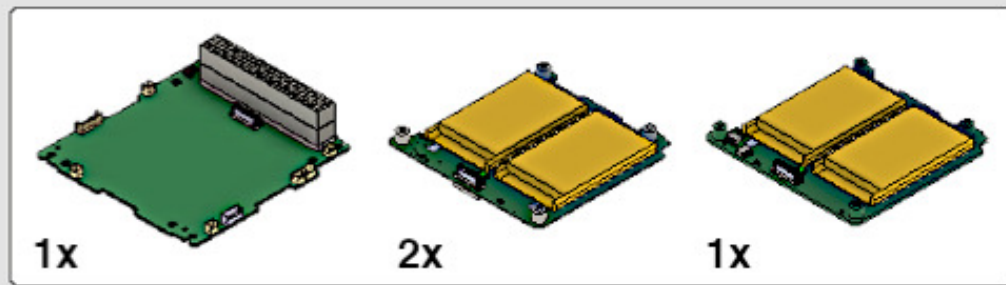
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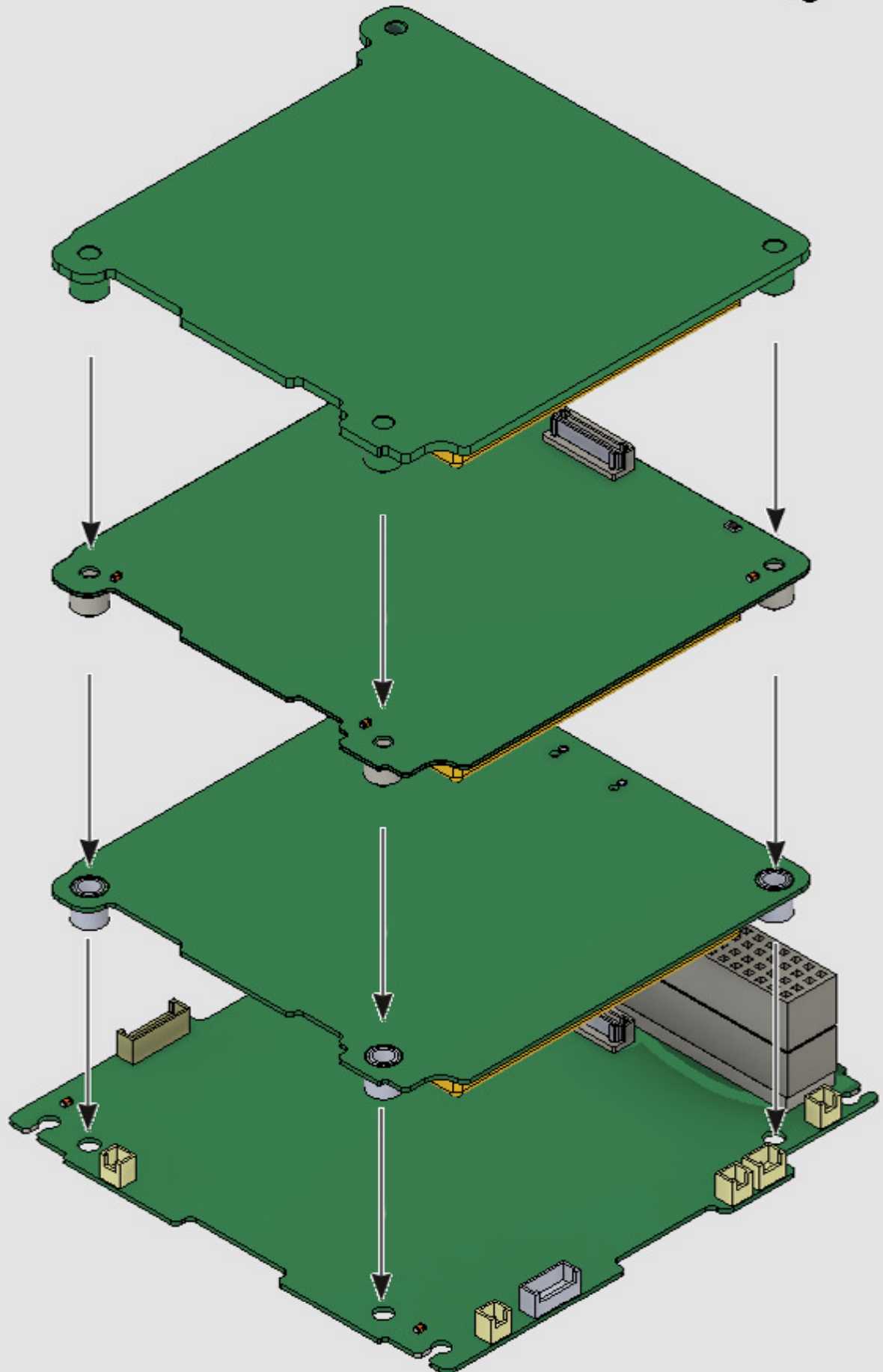


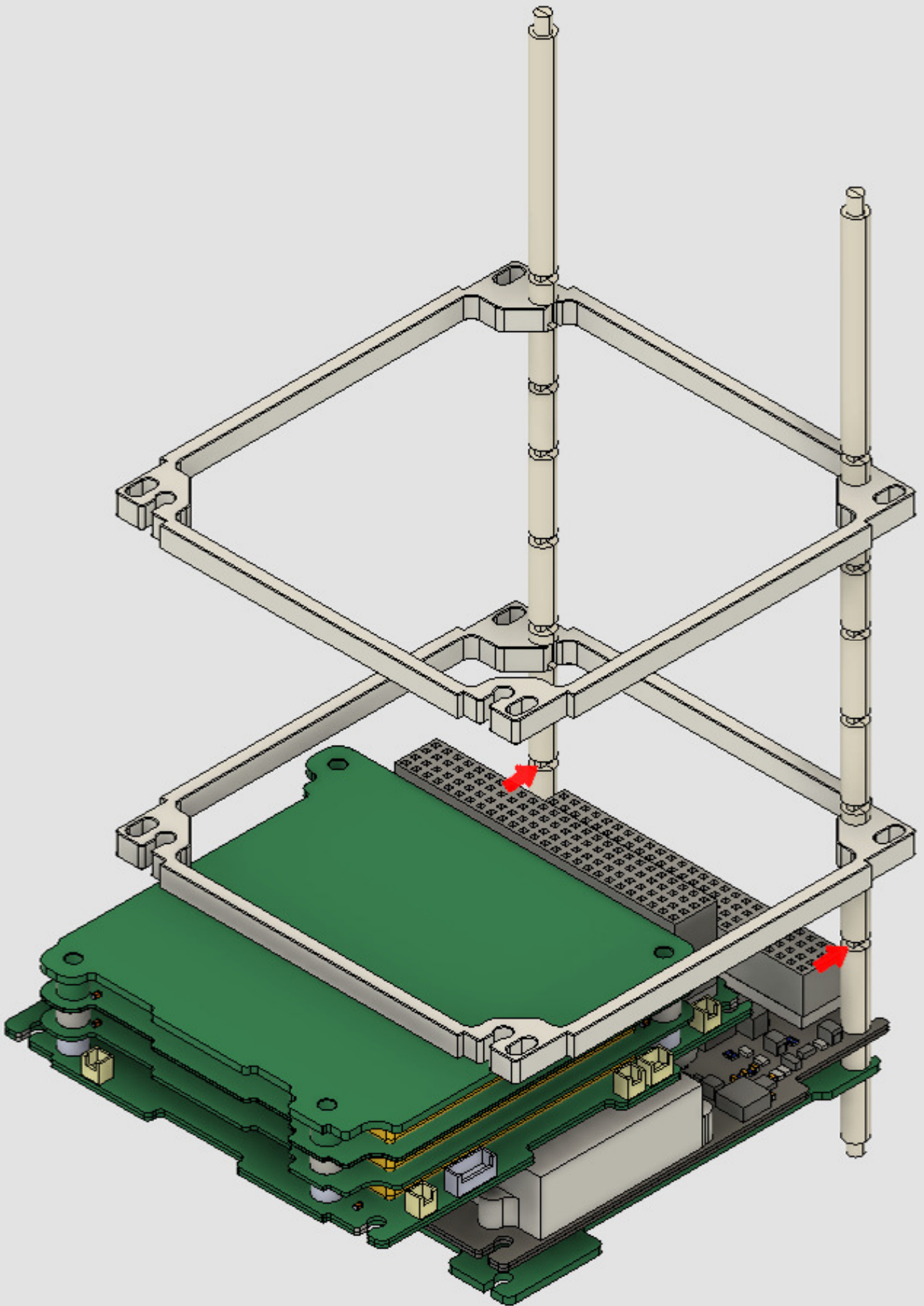
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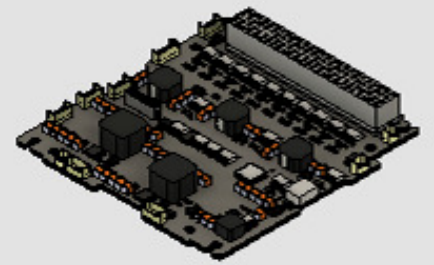
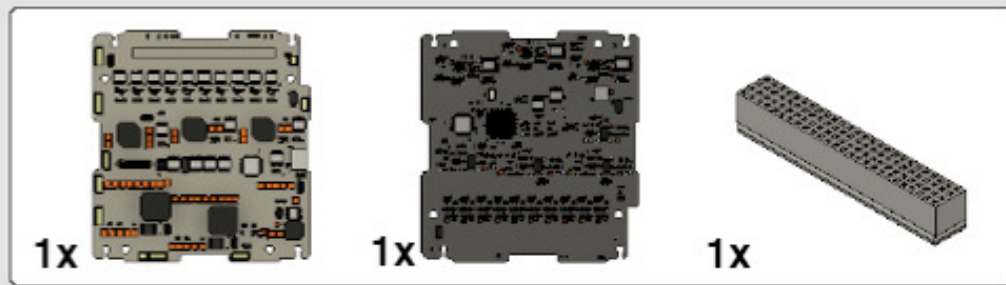




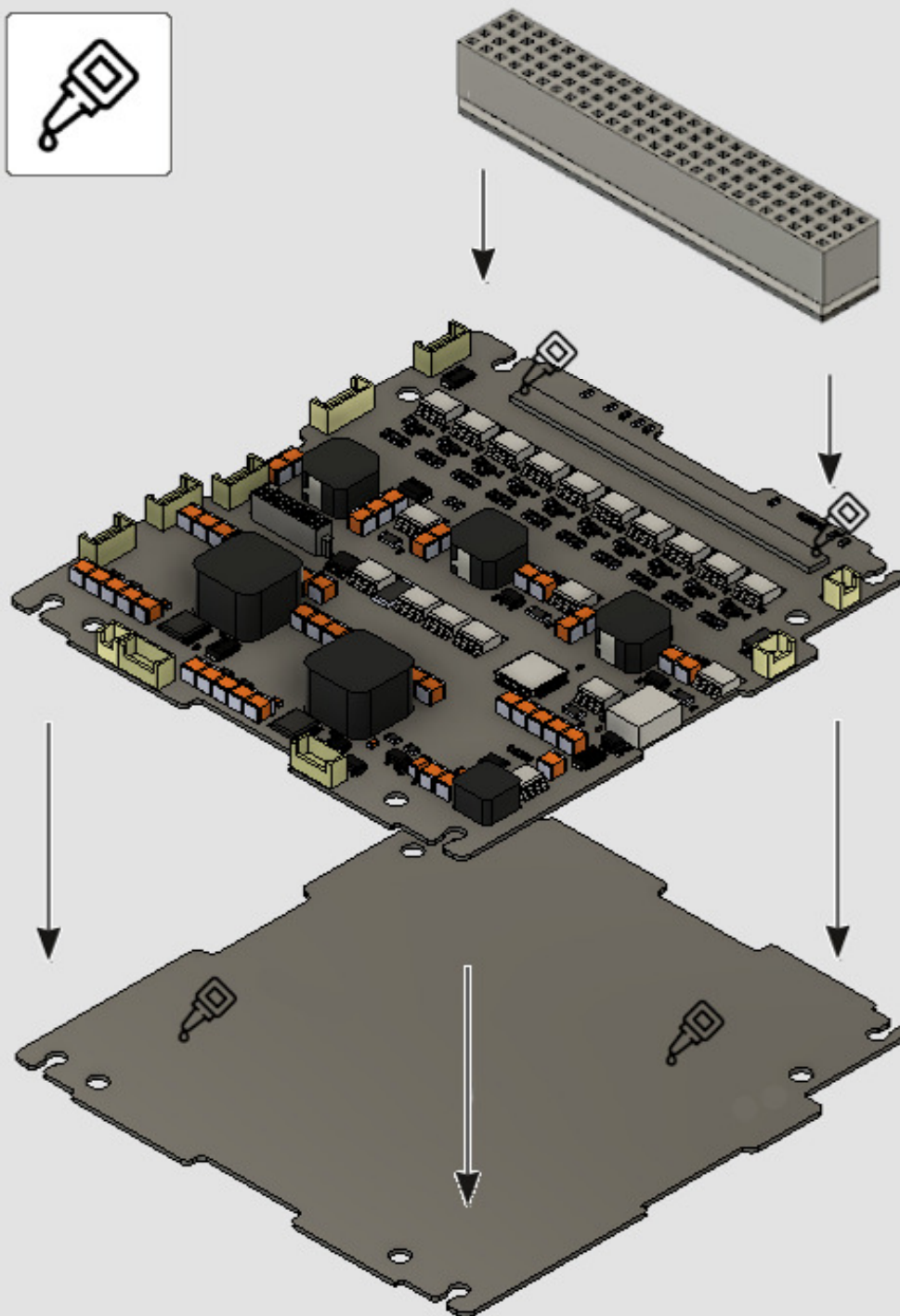
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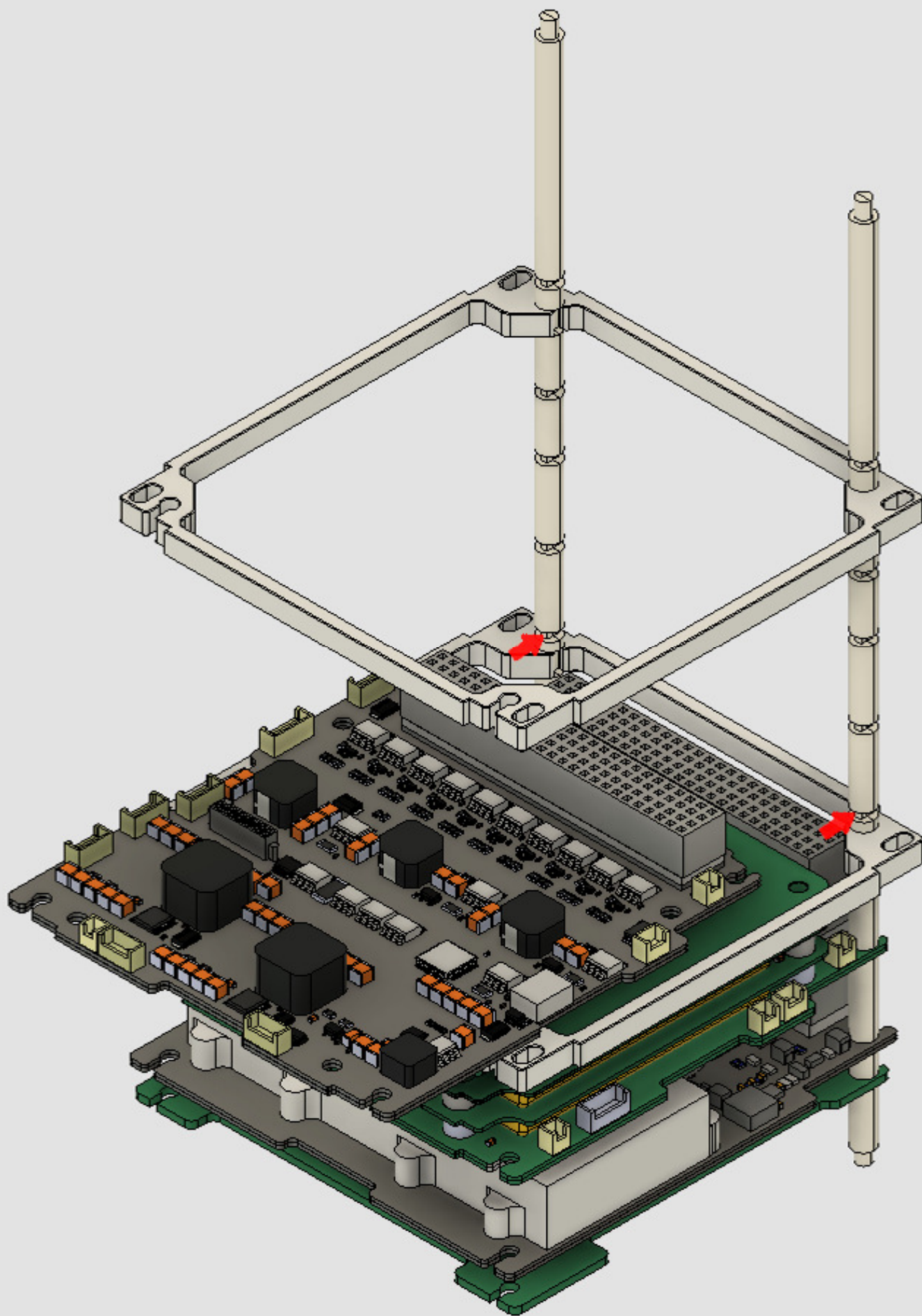


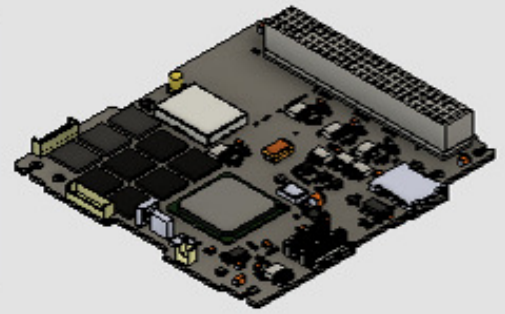




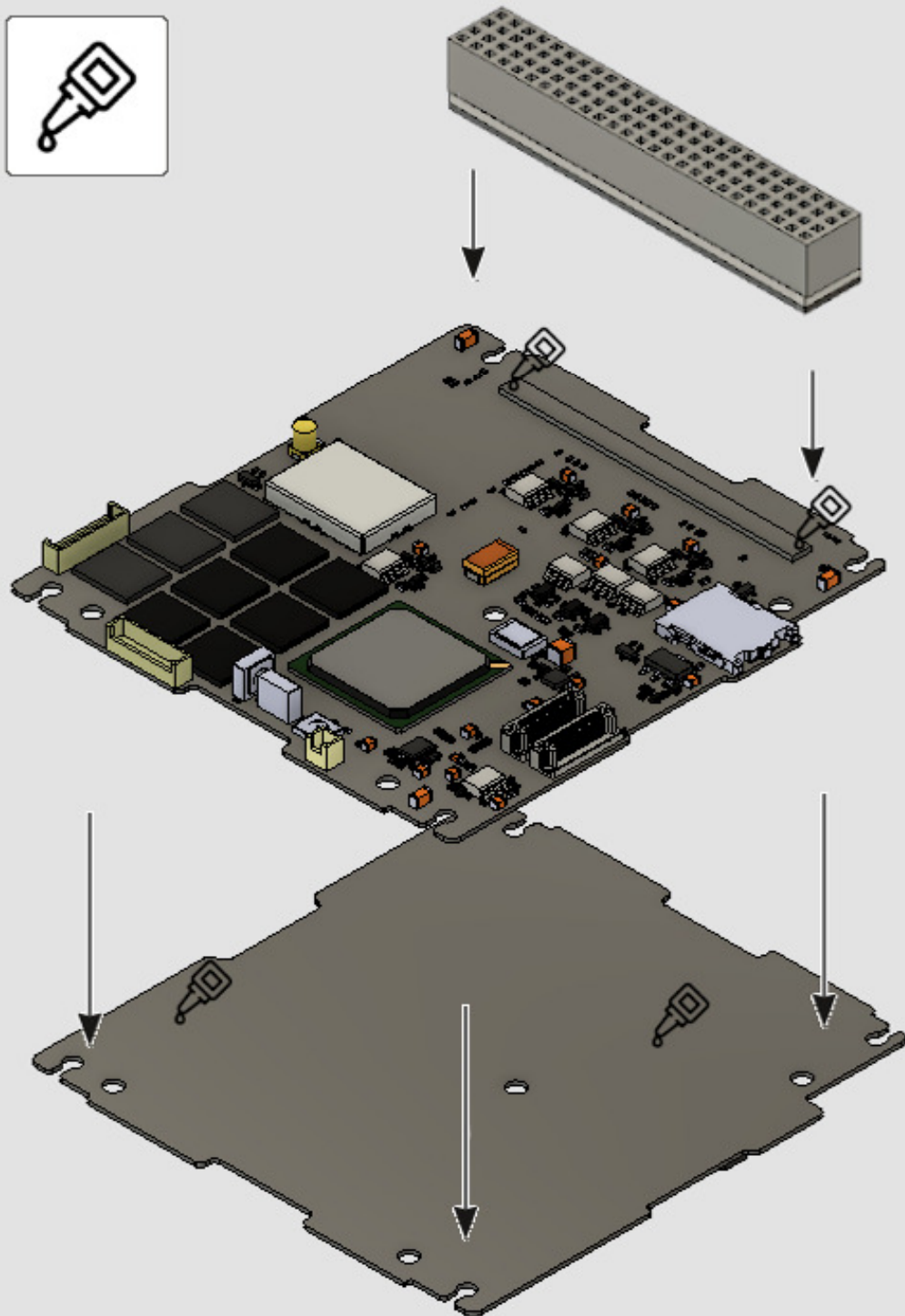
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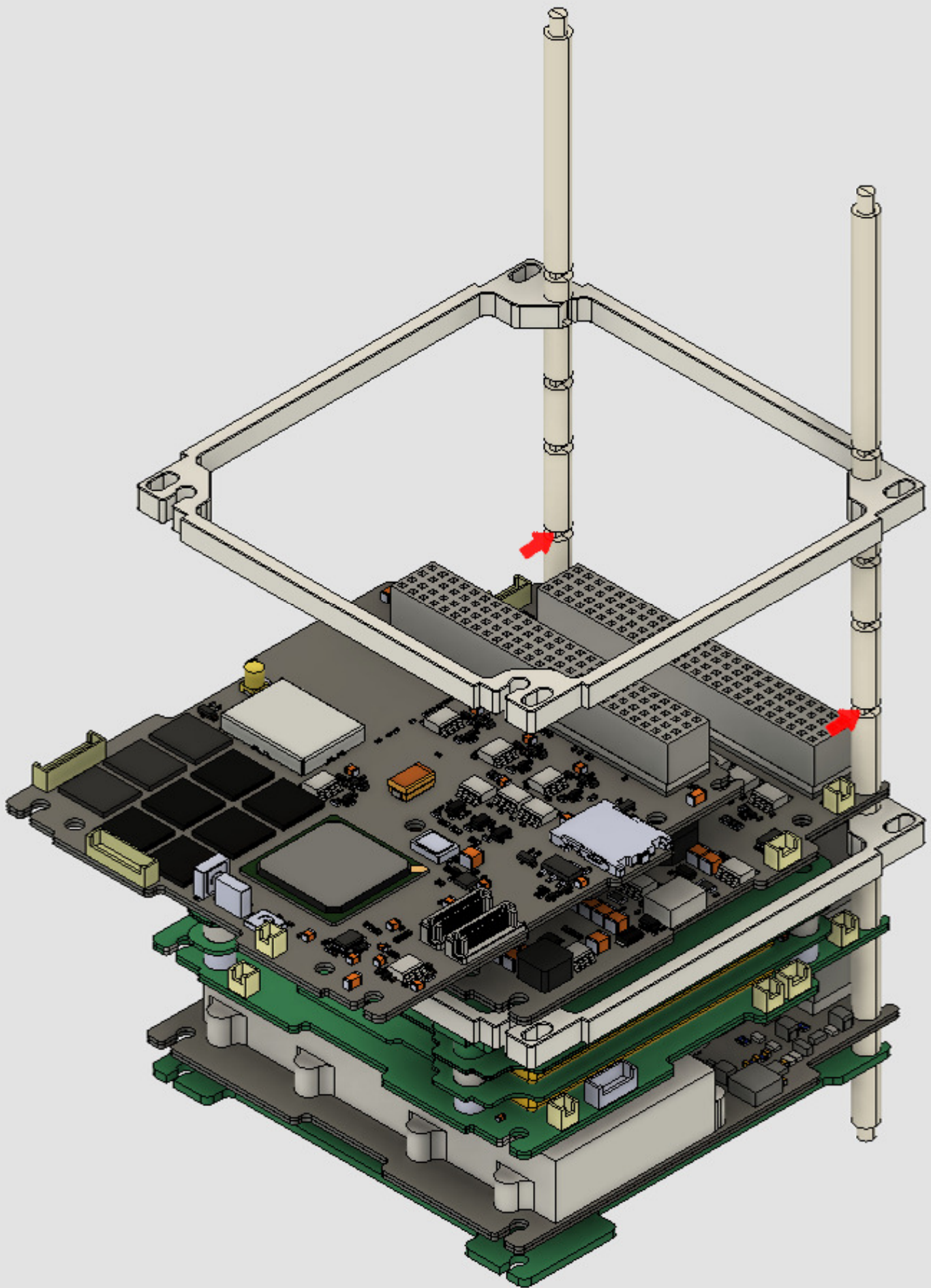


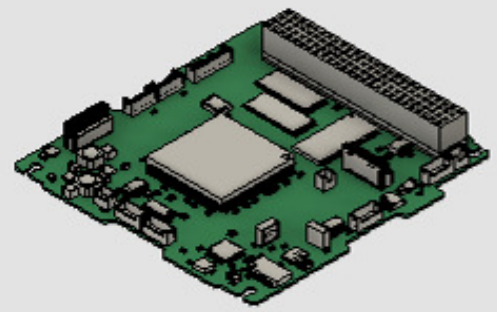
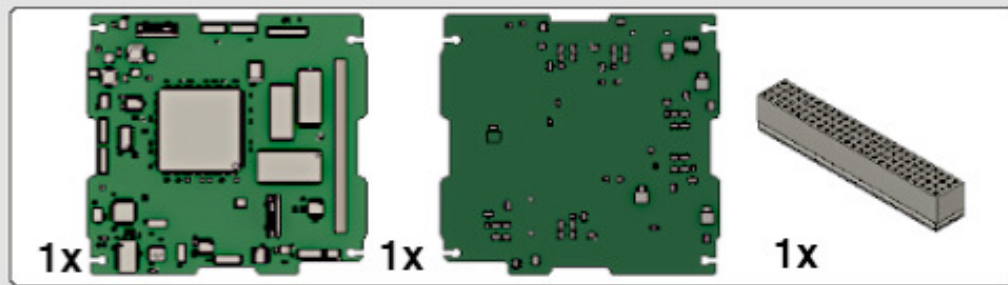




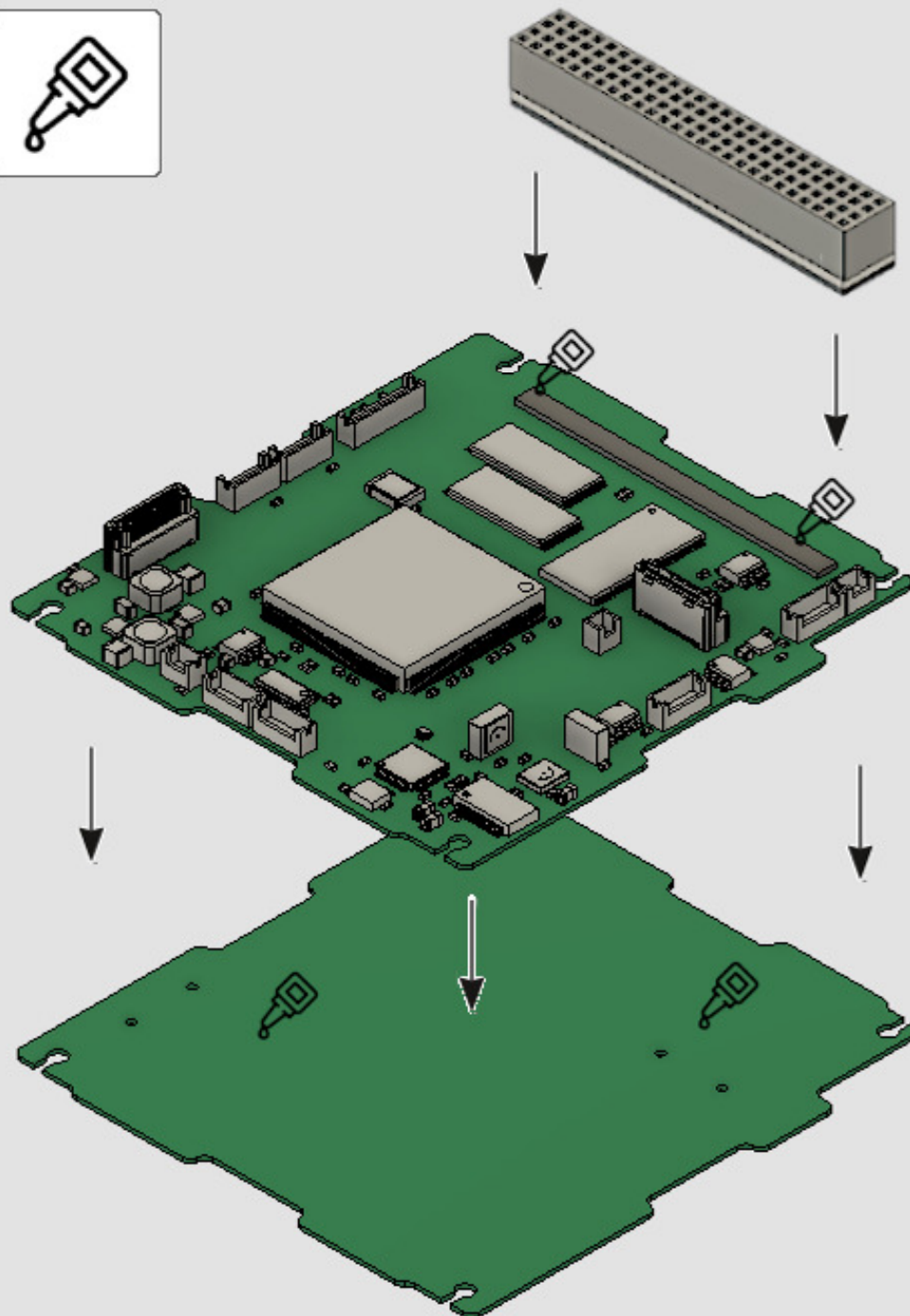
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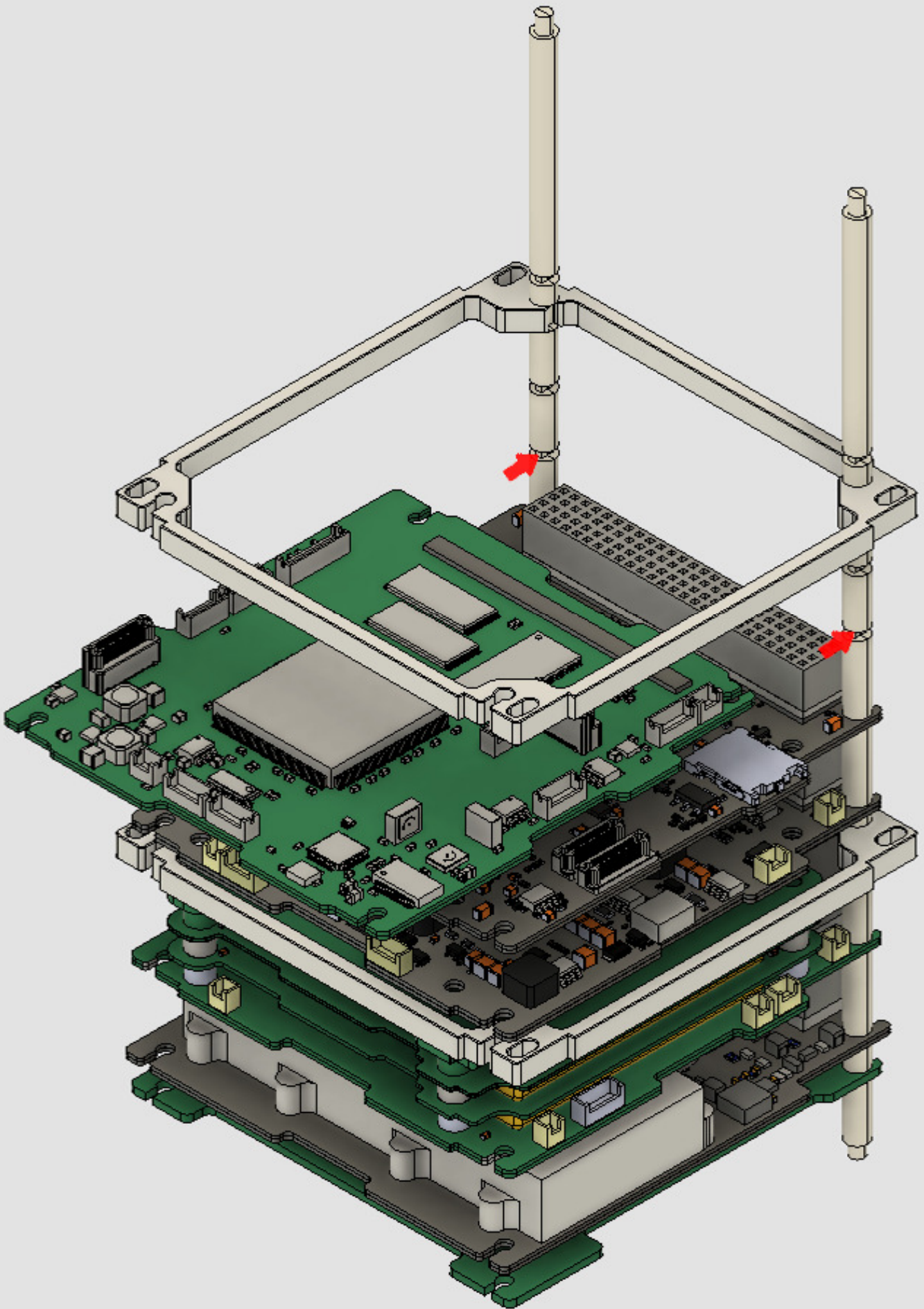


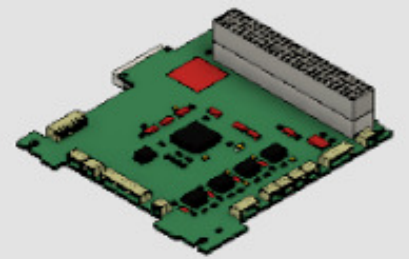
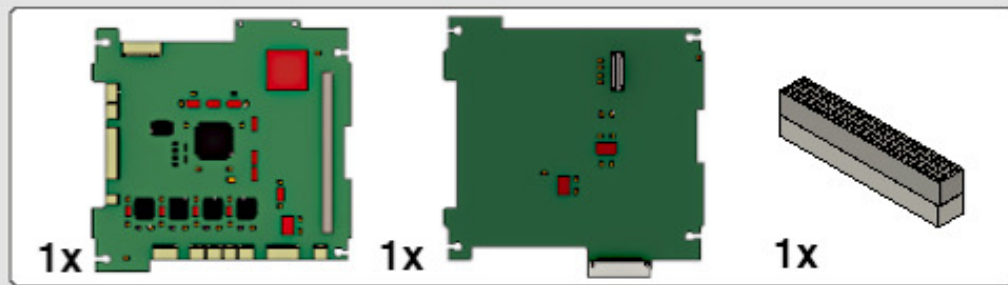




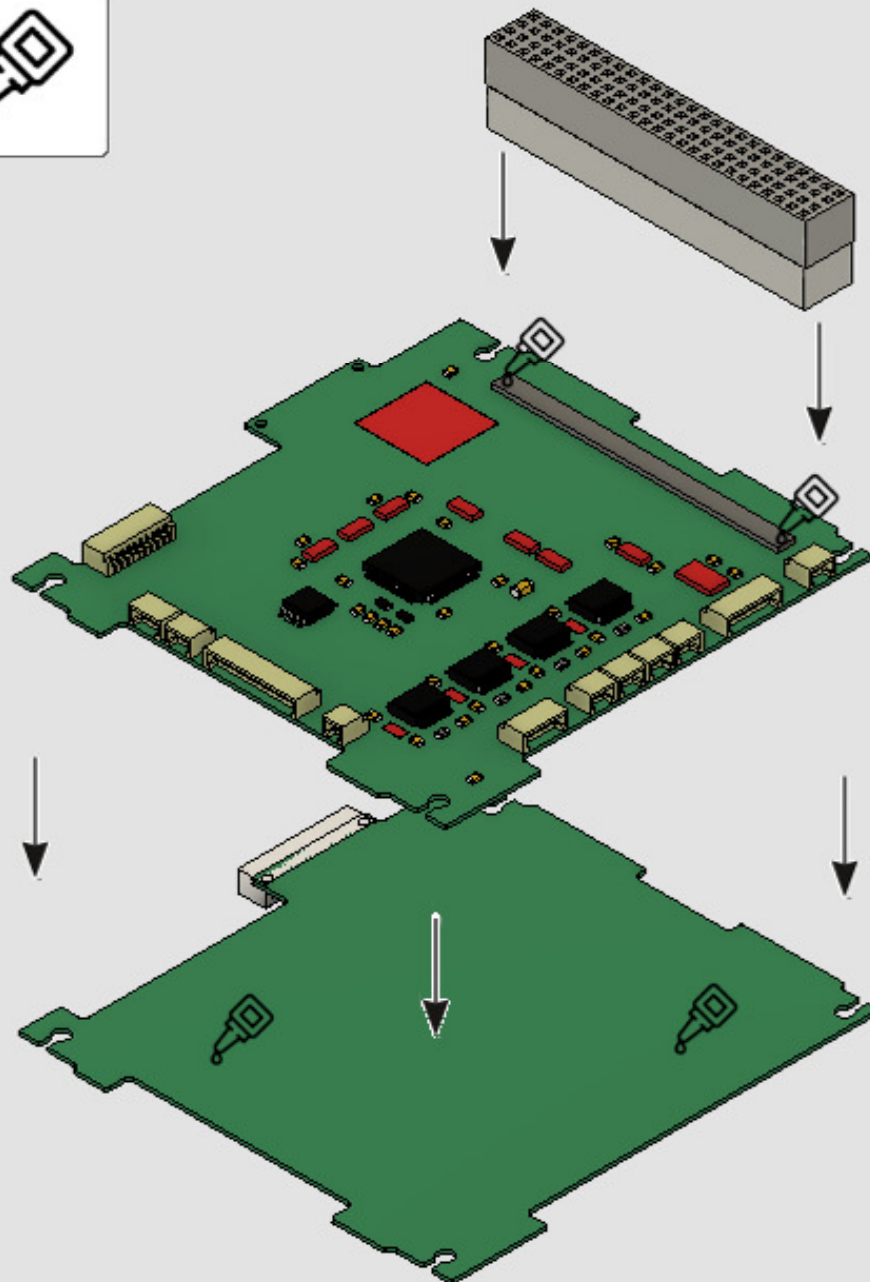
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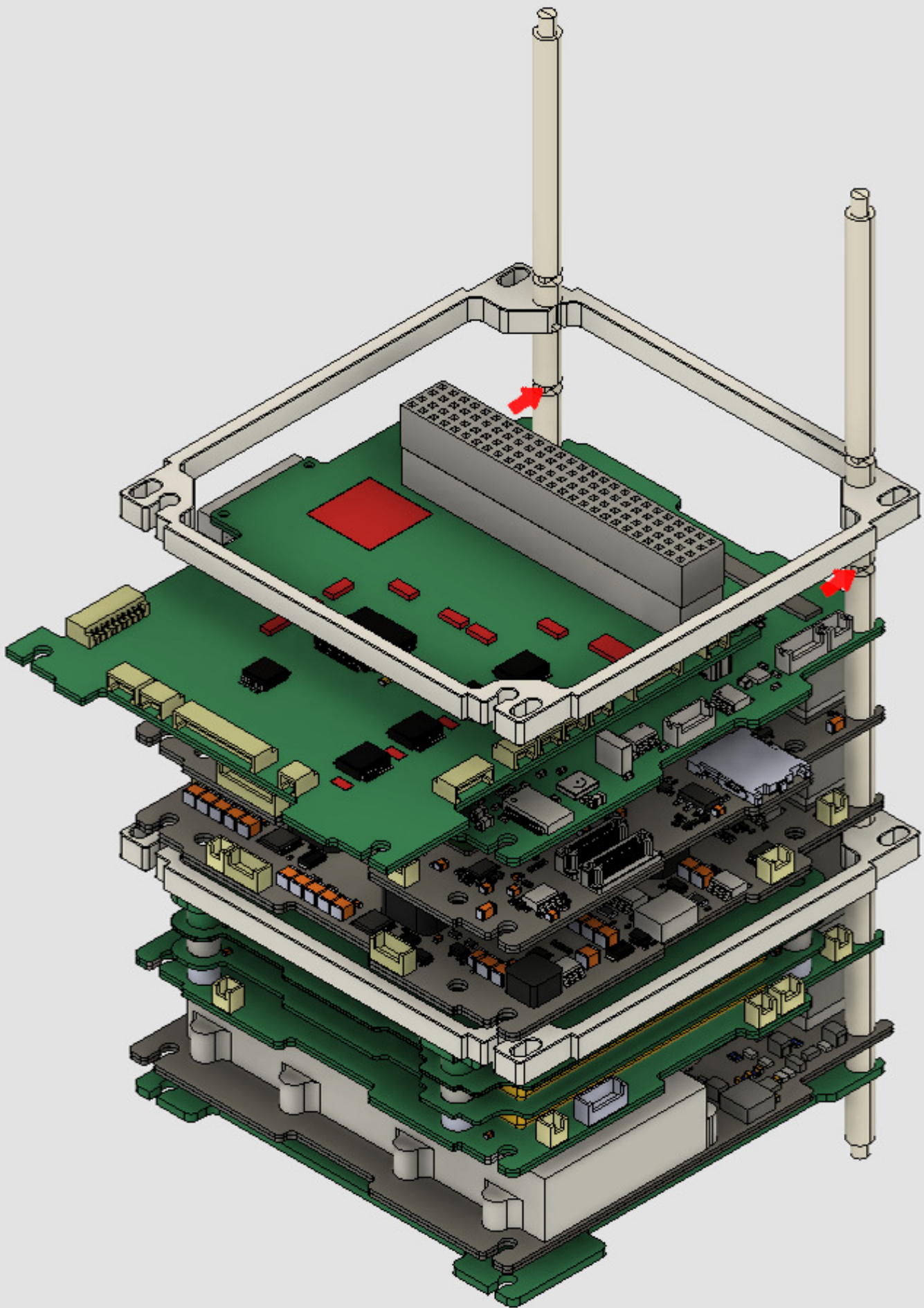


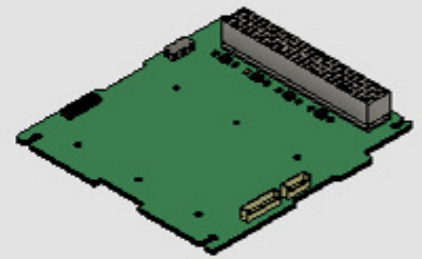
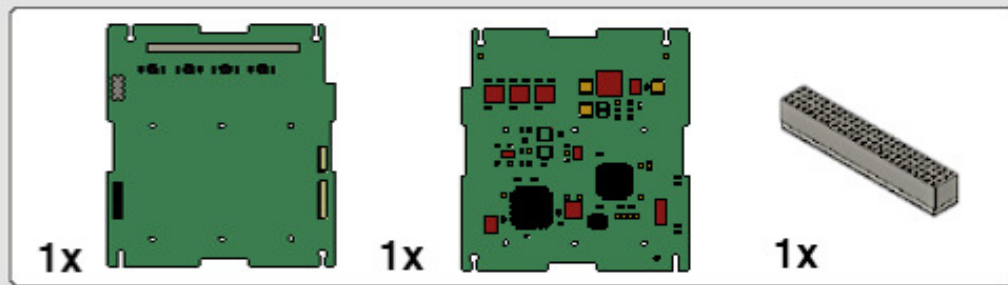




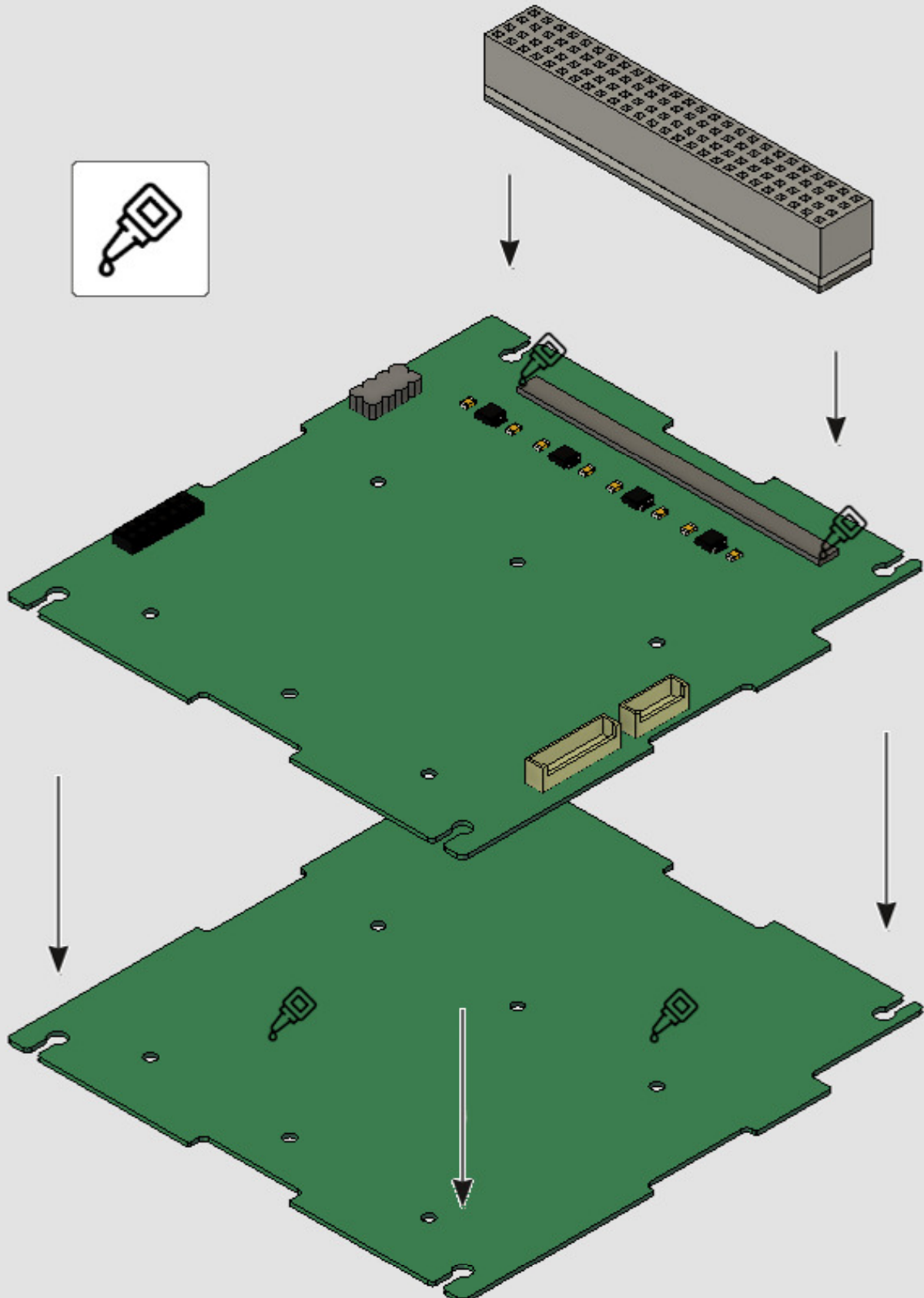
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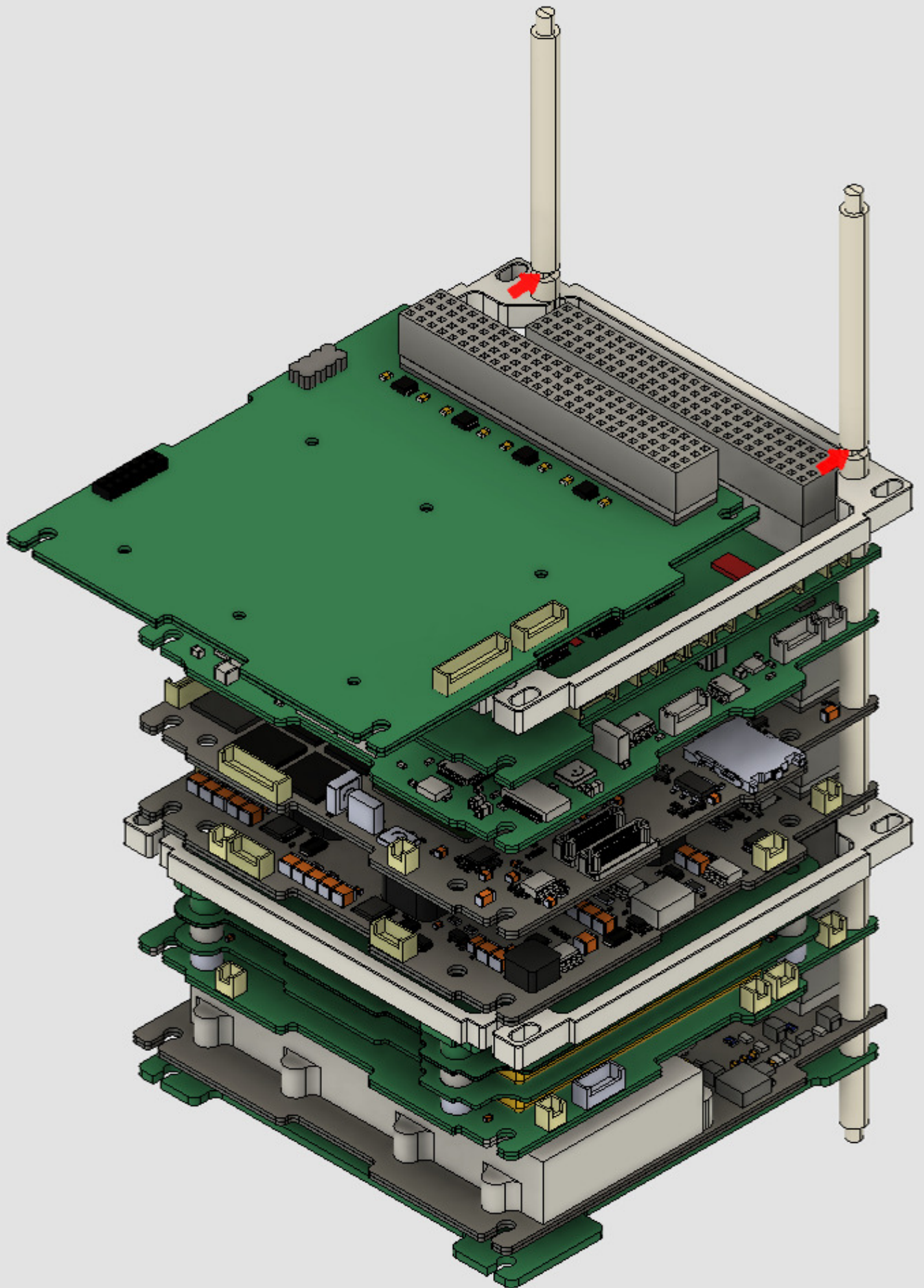


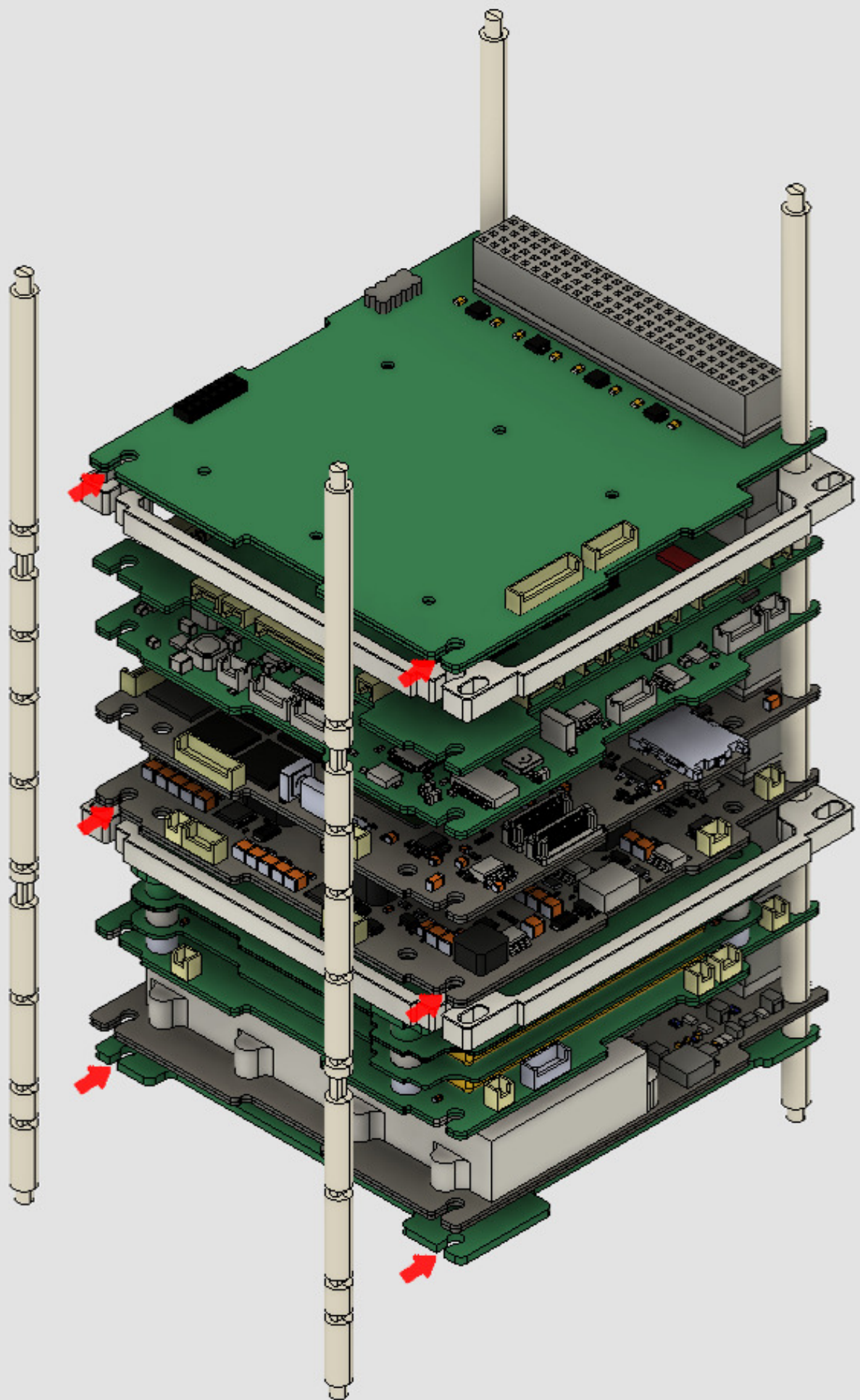


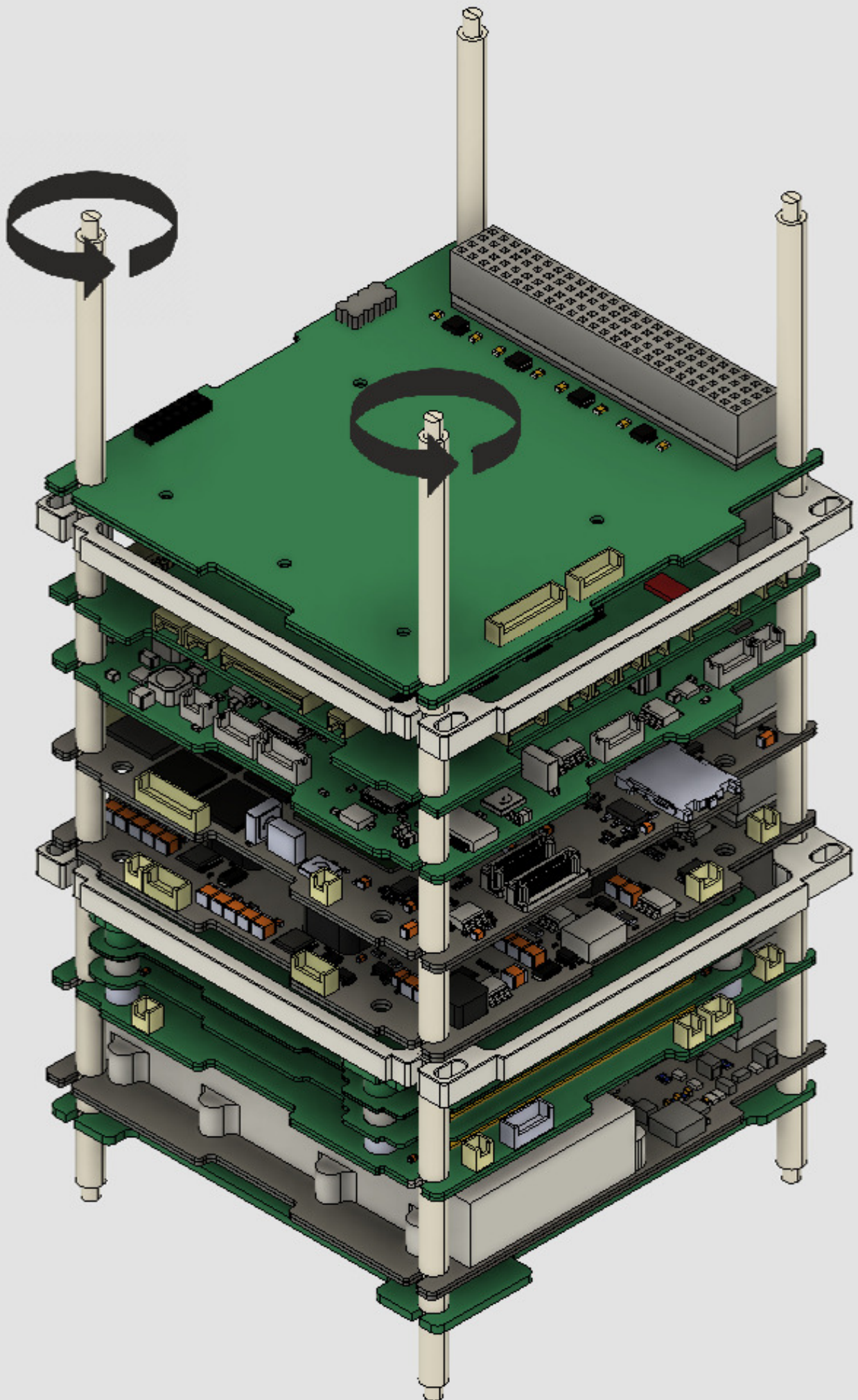


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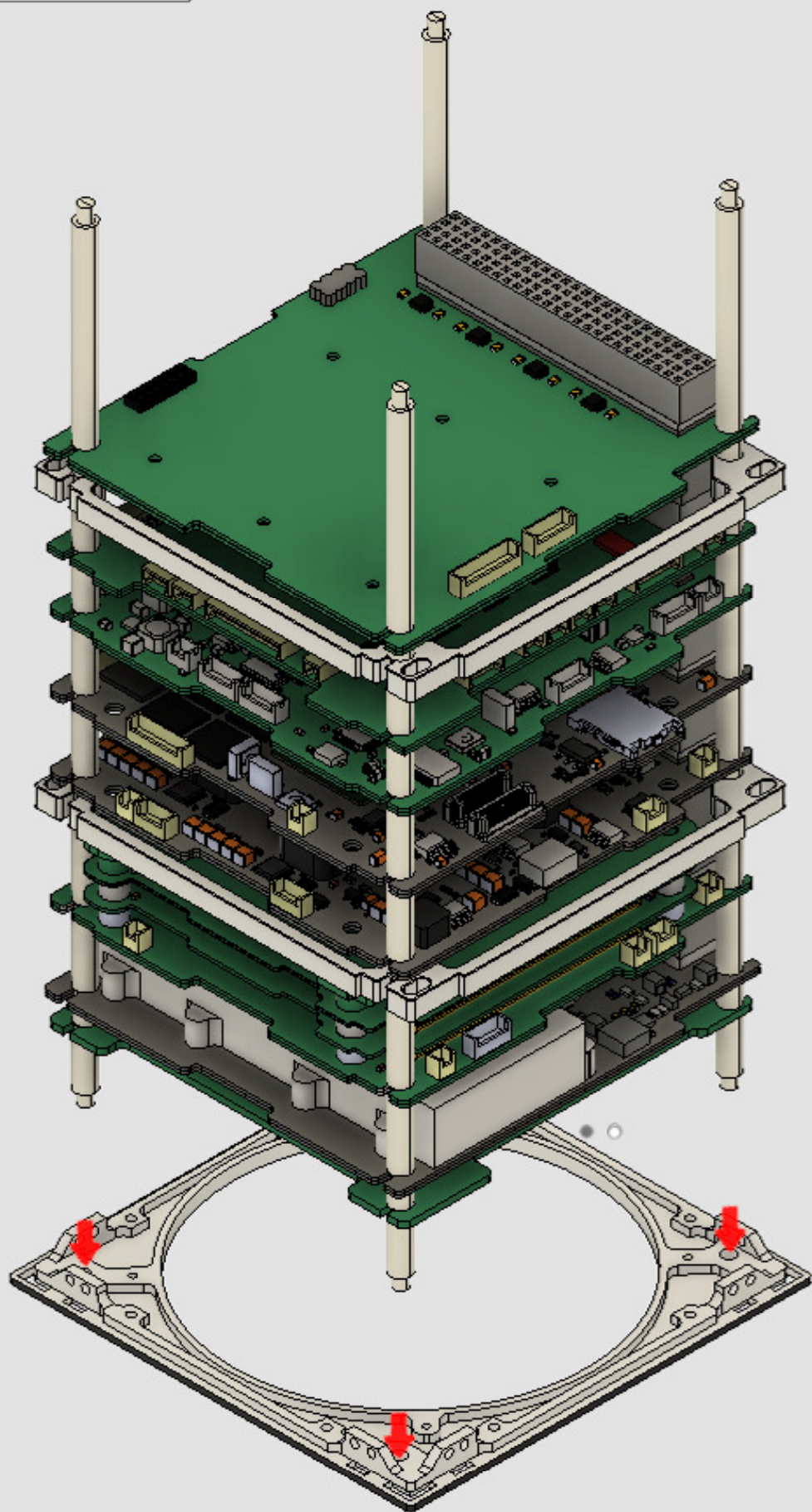


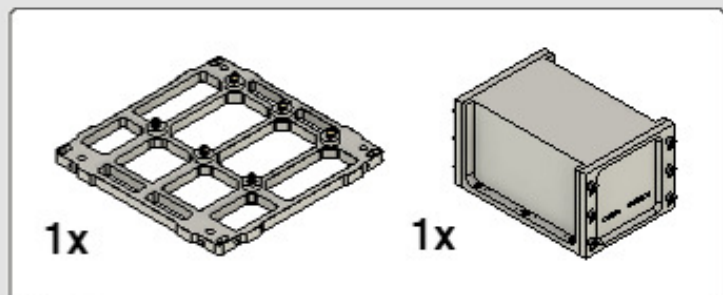




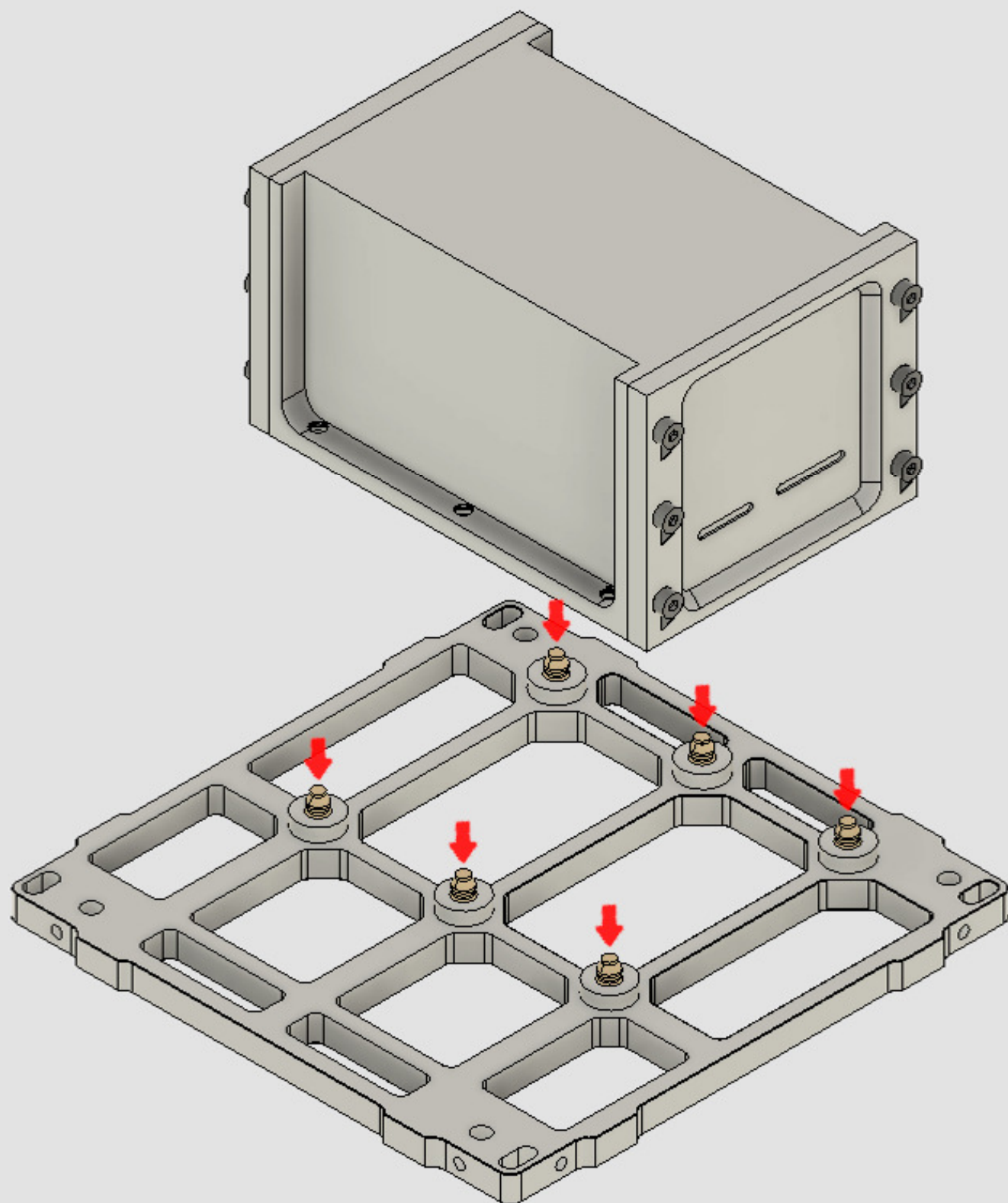


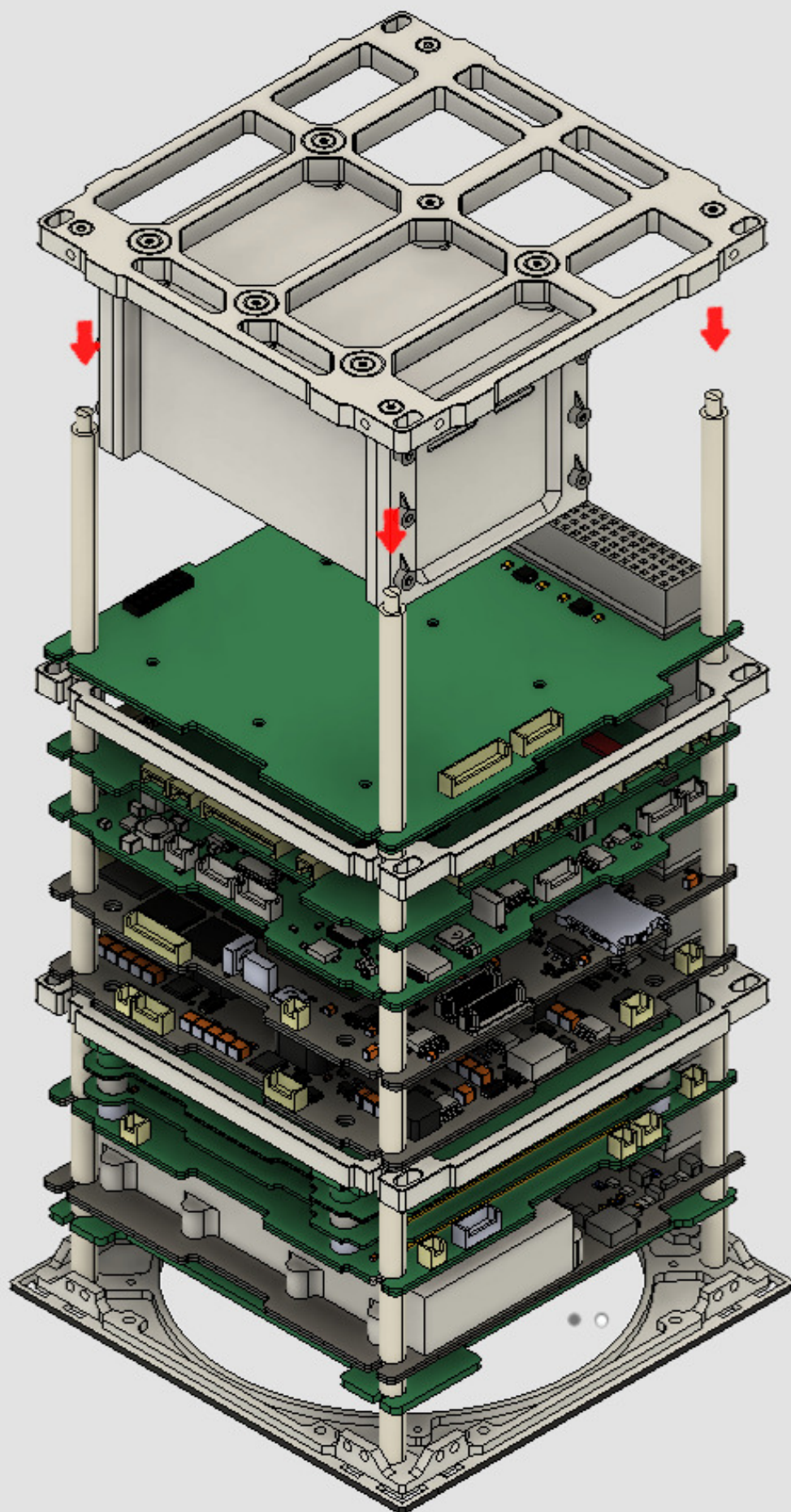
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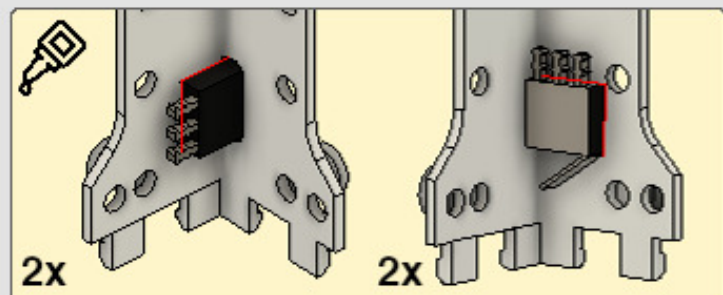




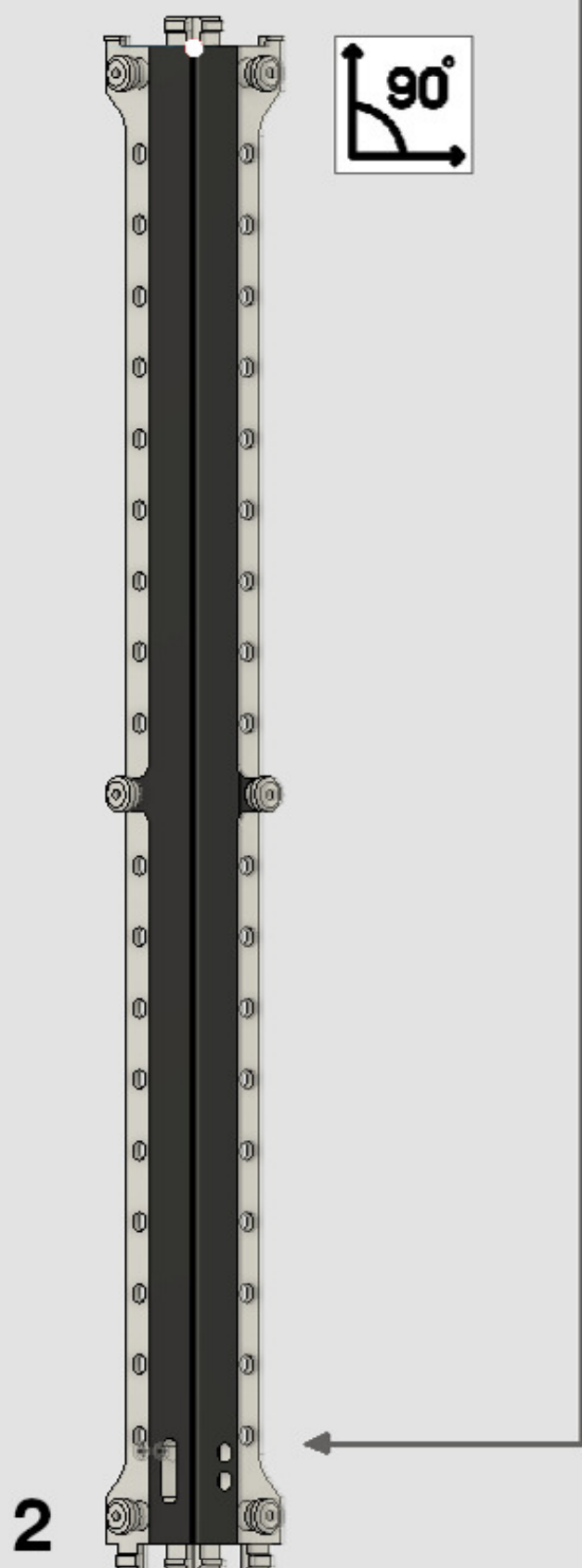
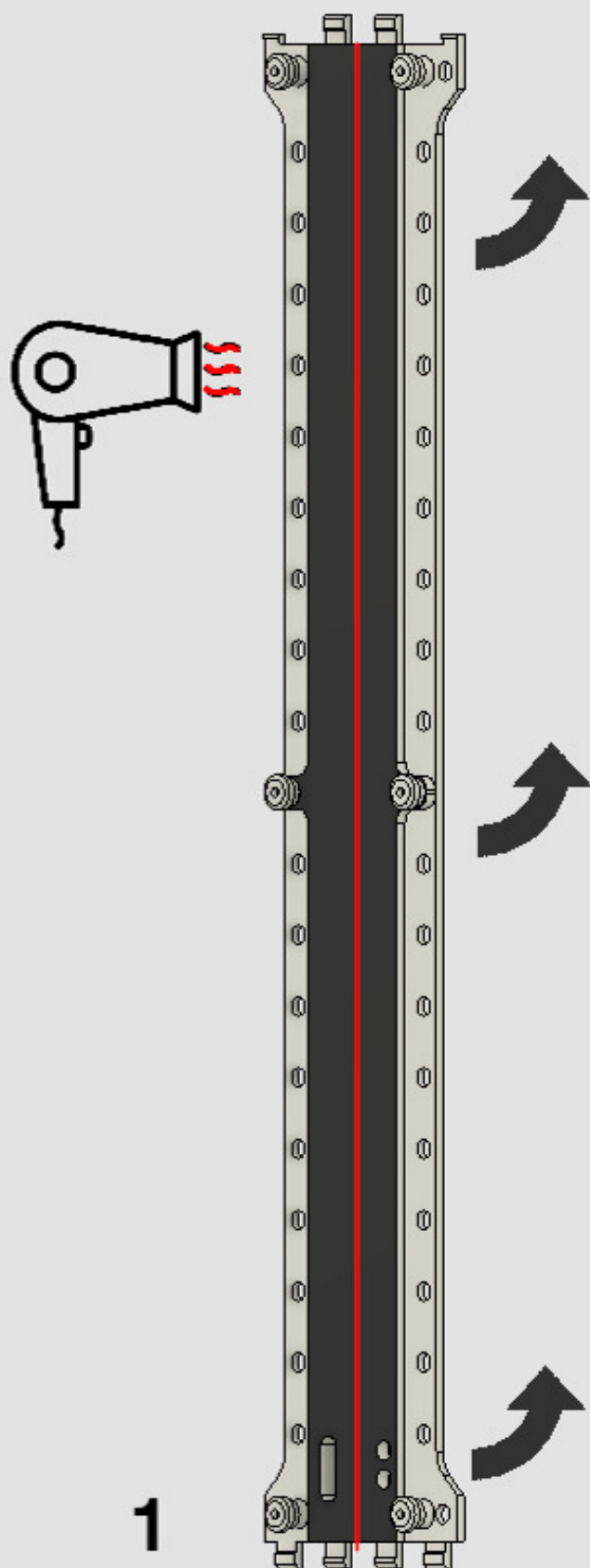
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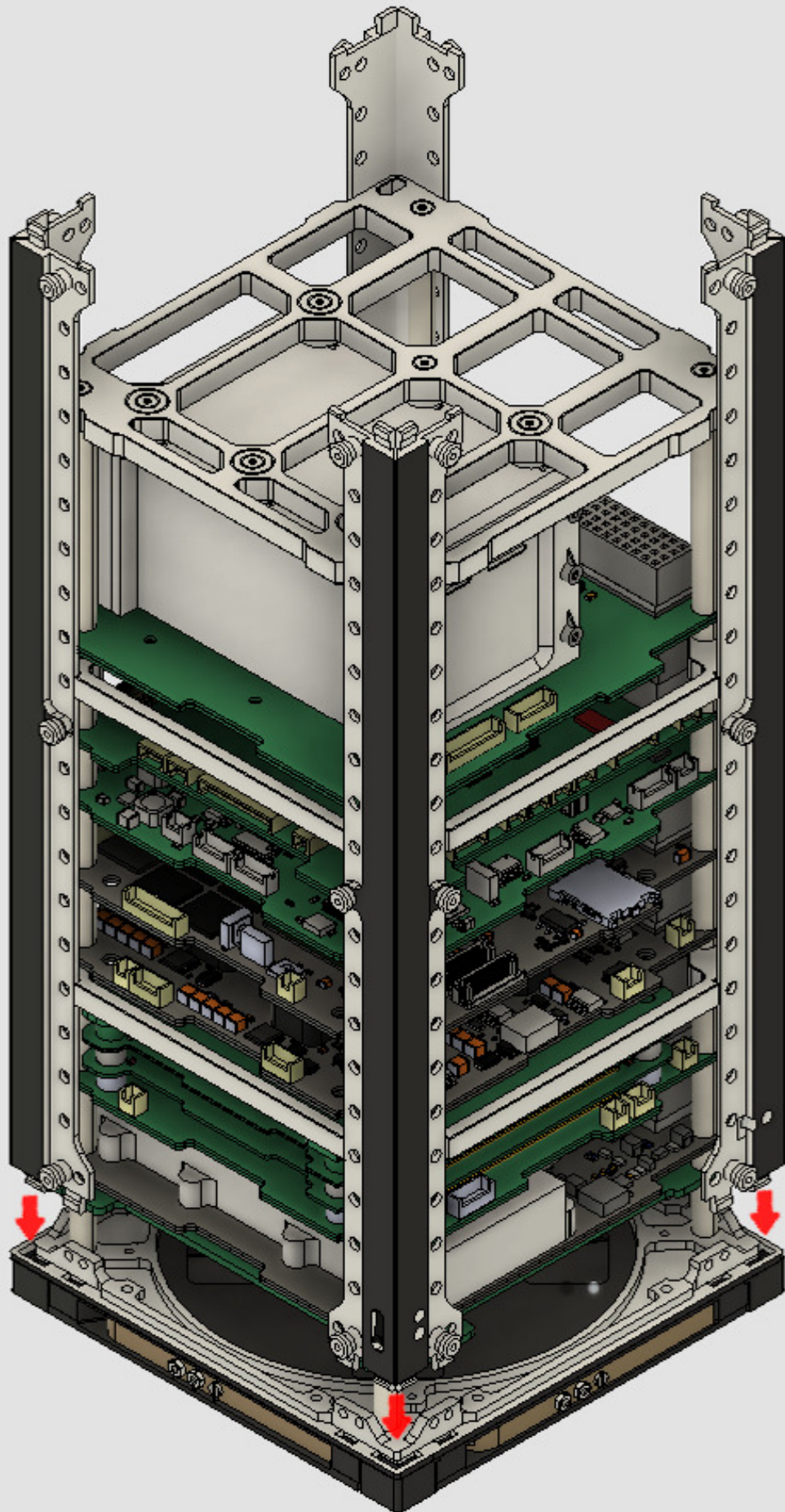


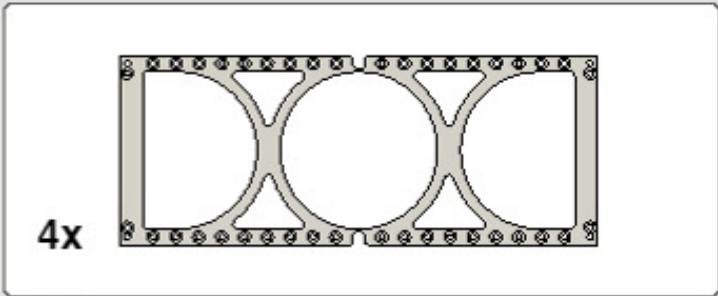




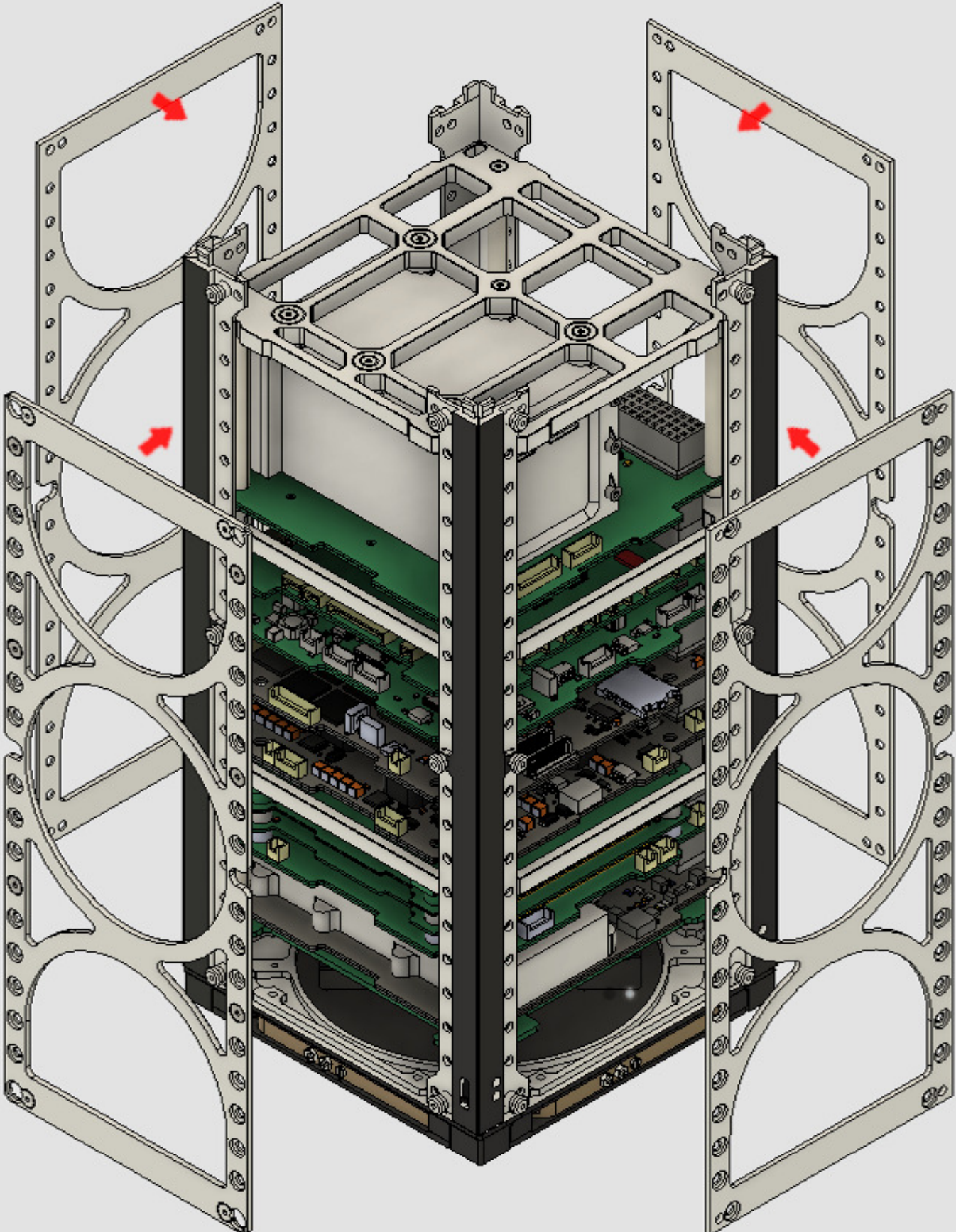
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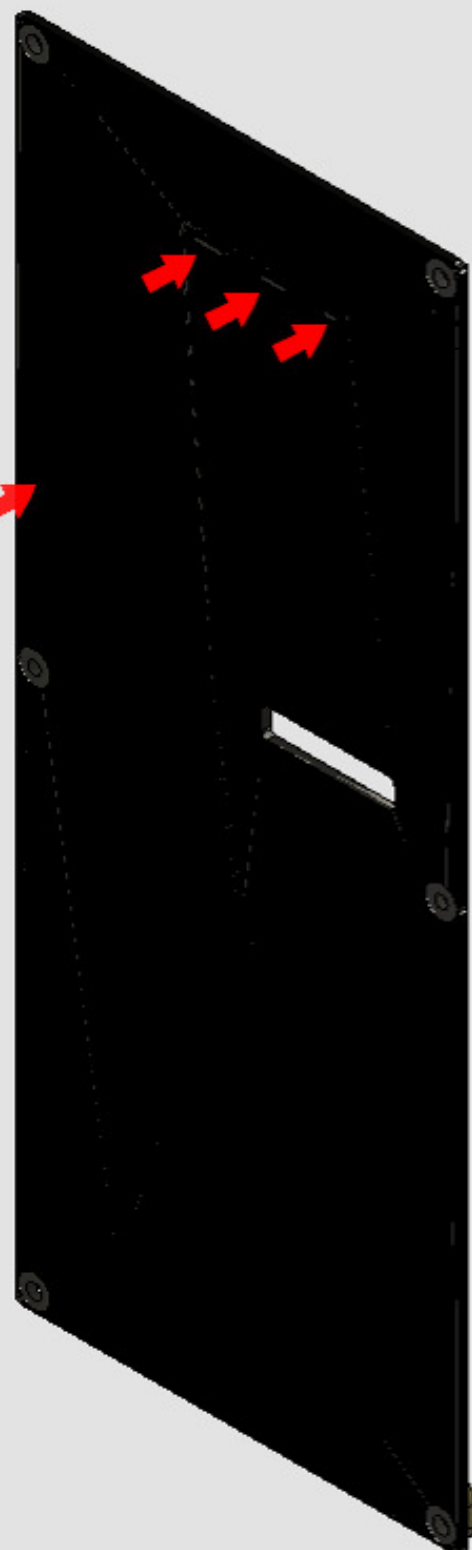
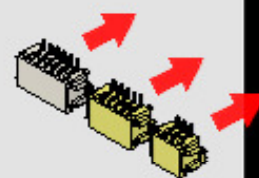
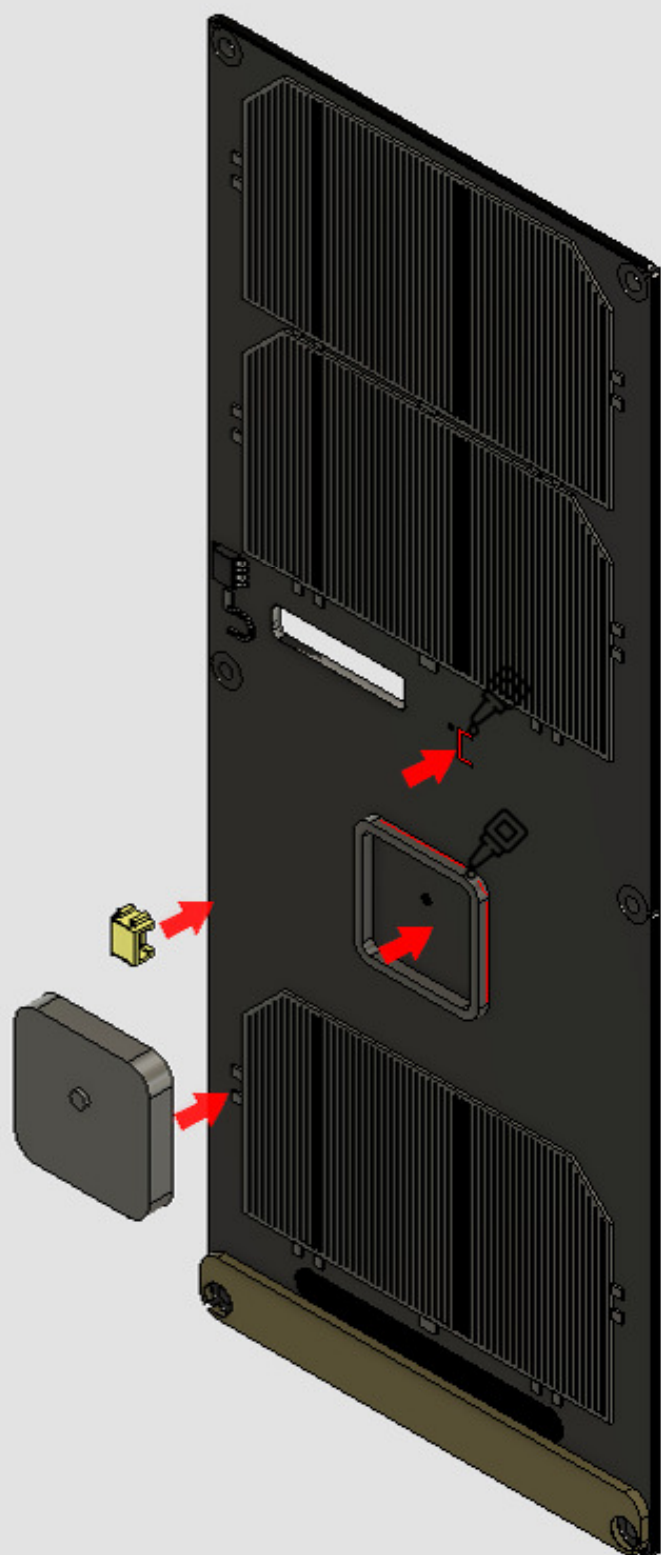


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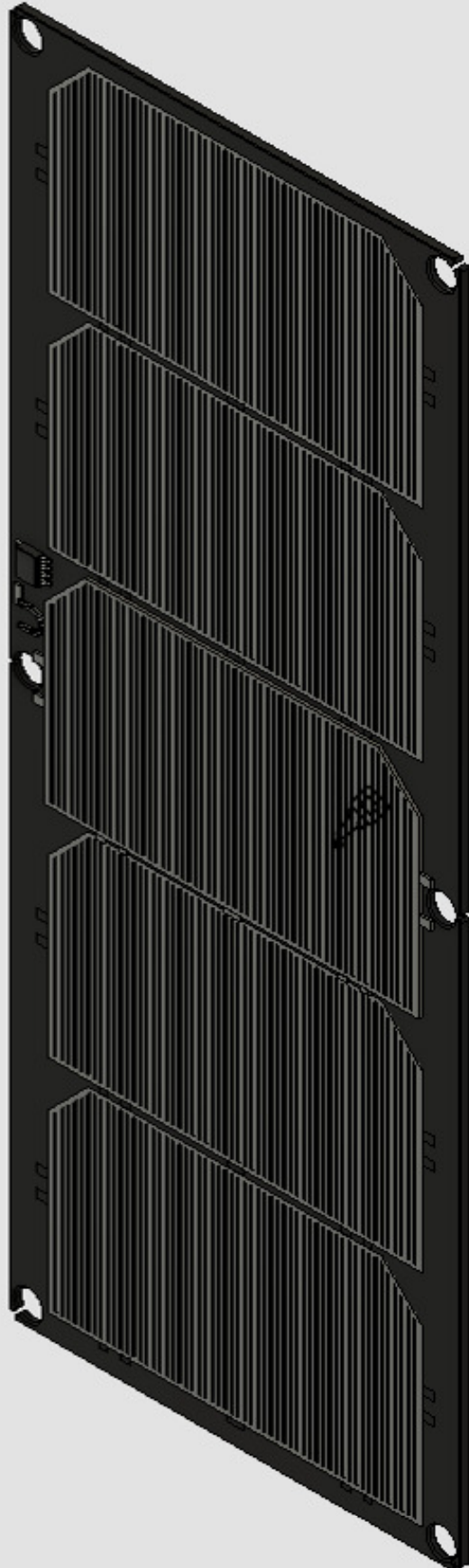


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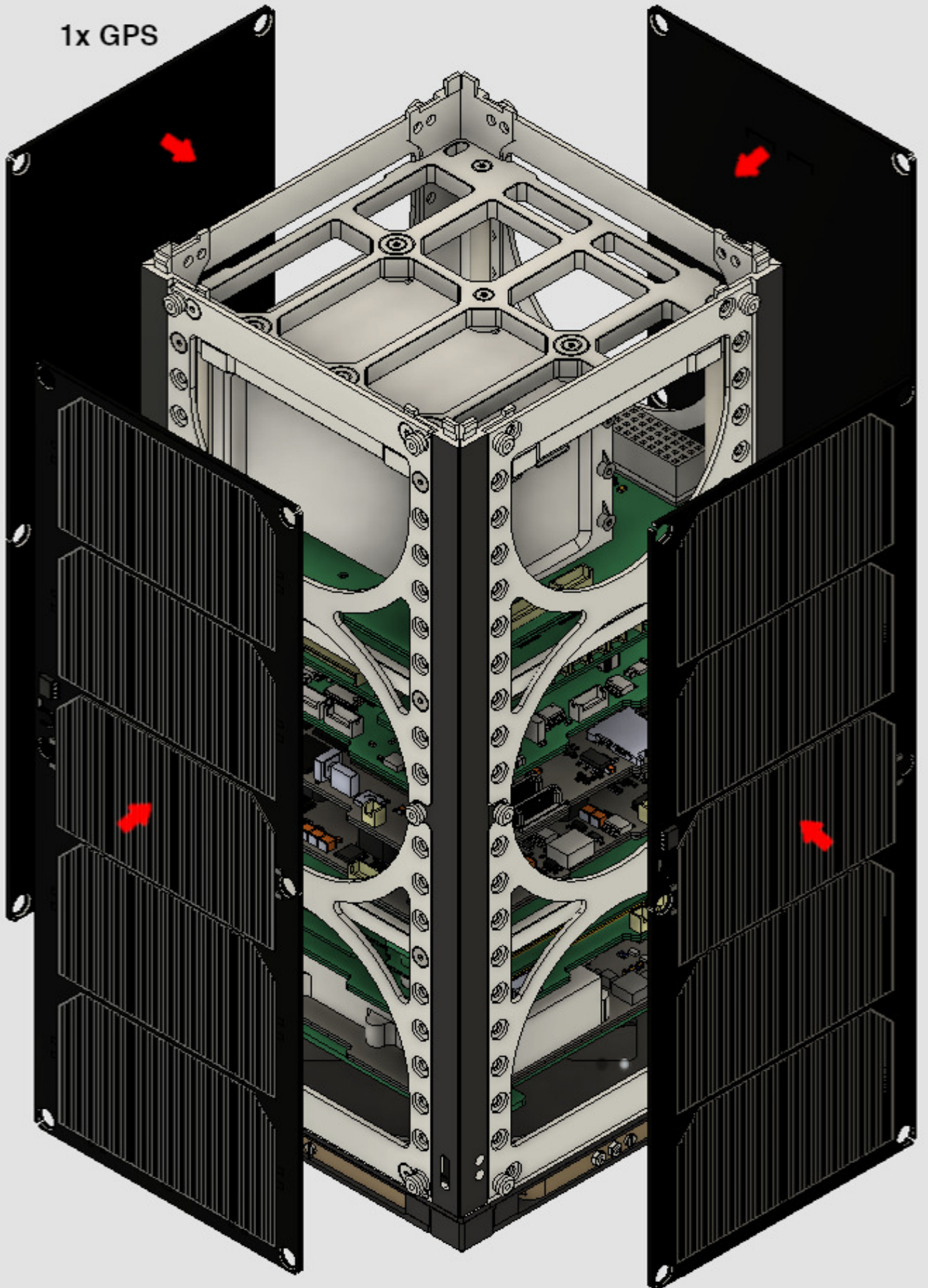


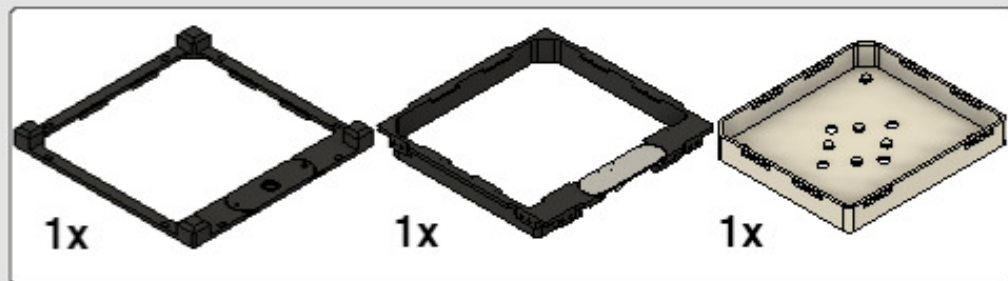
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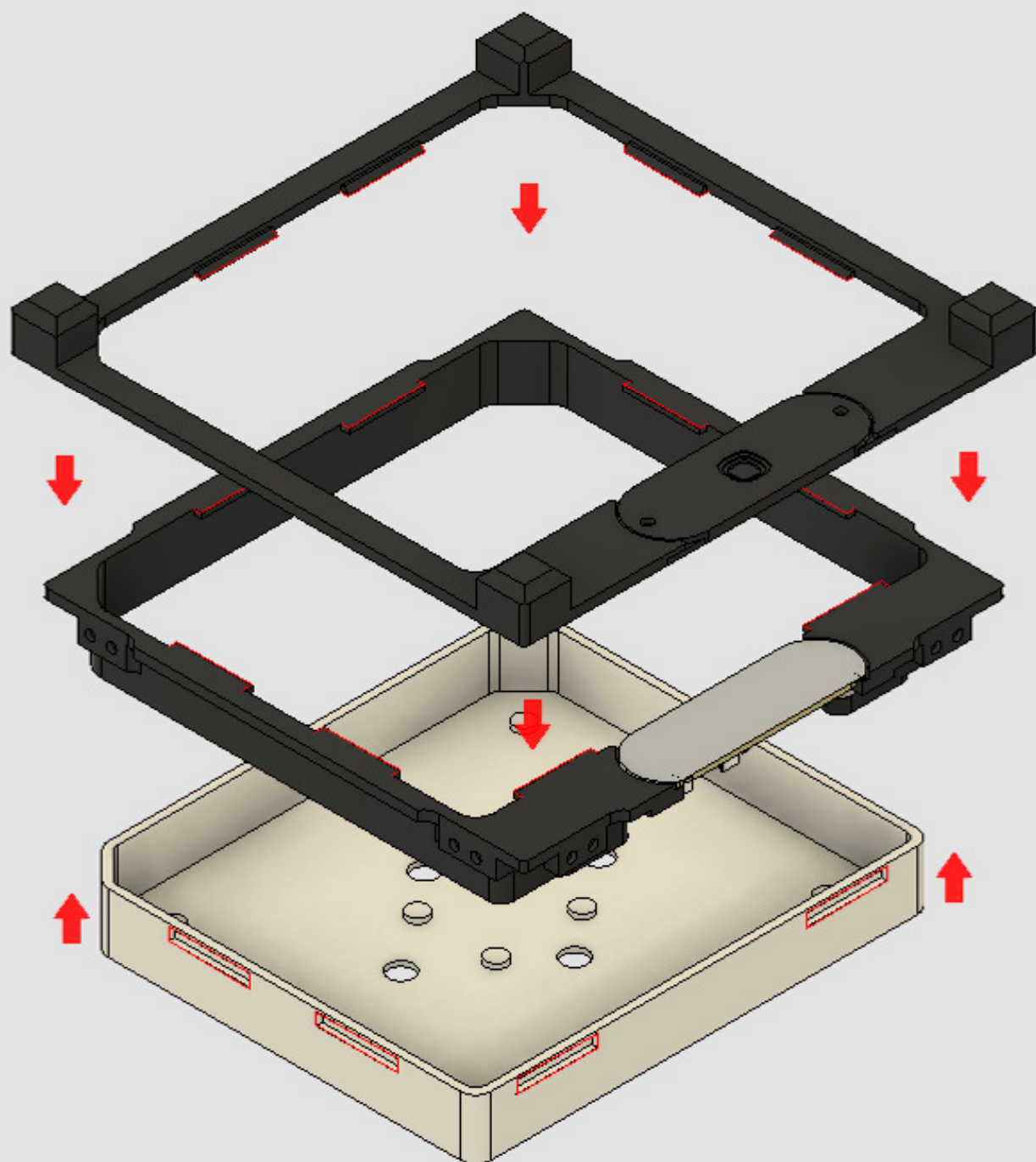
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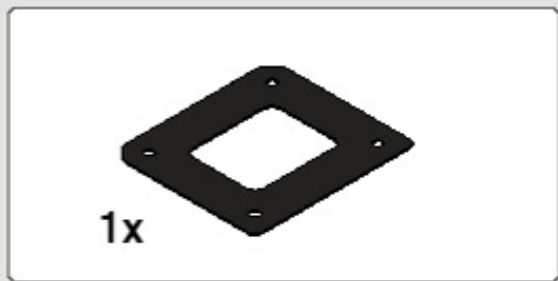
1x GPS



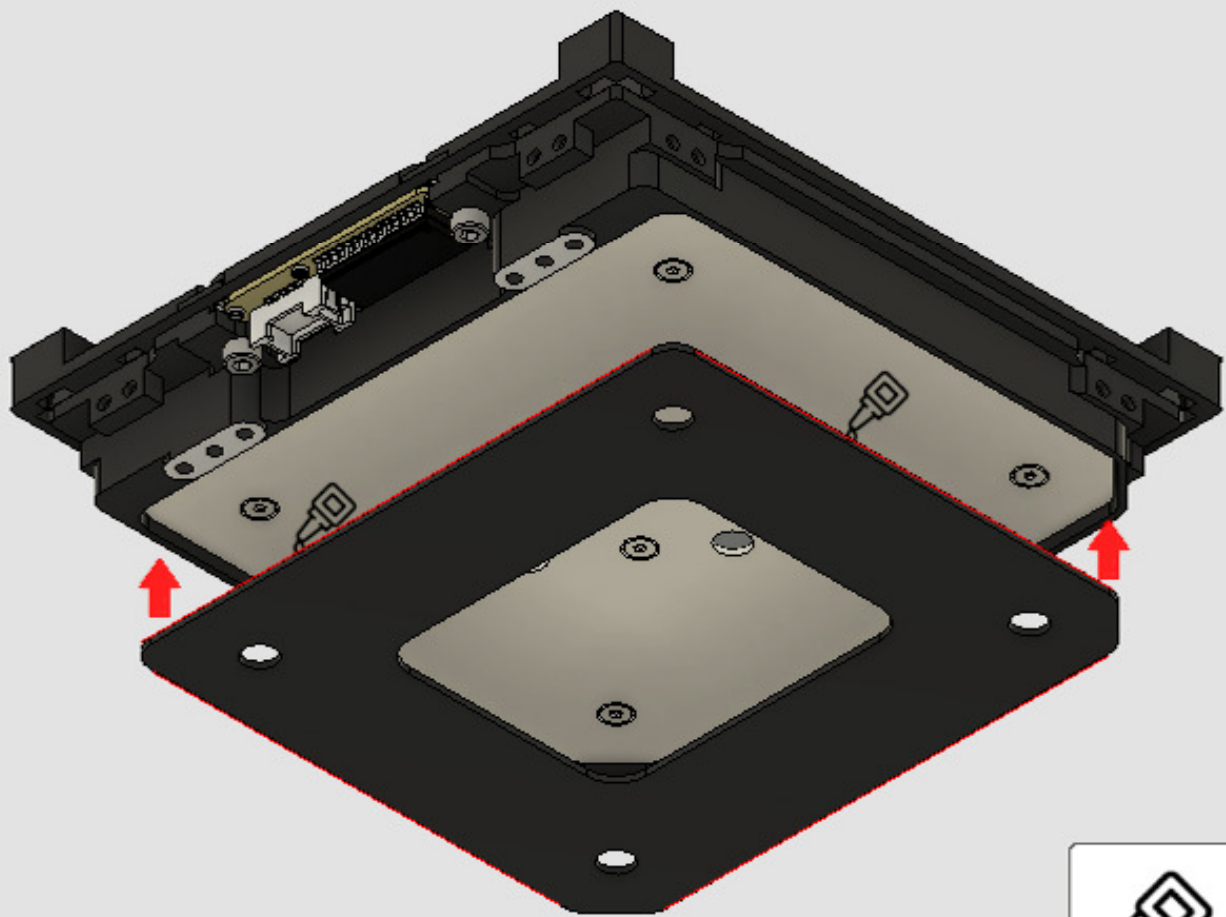


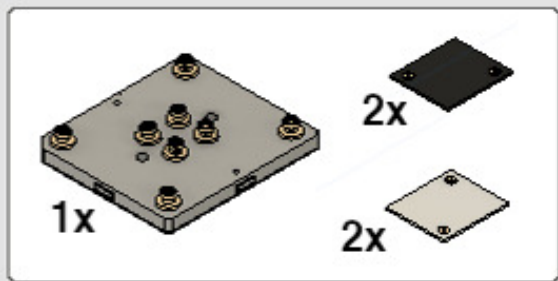
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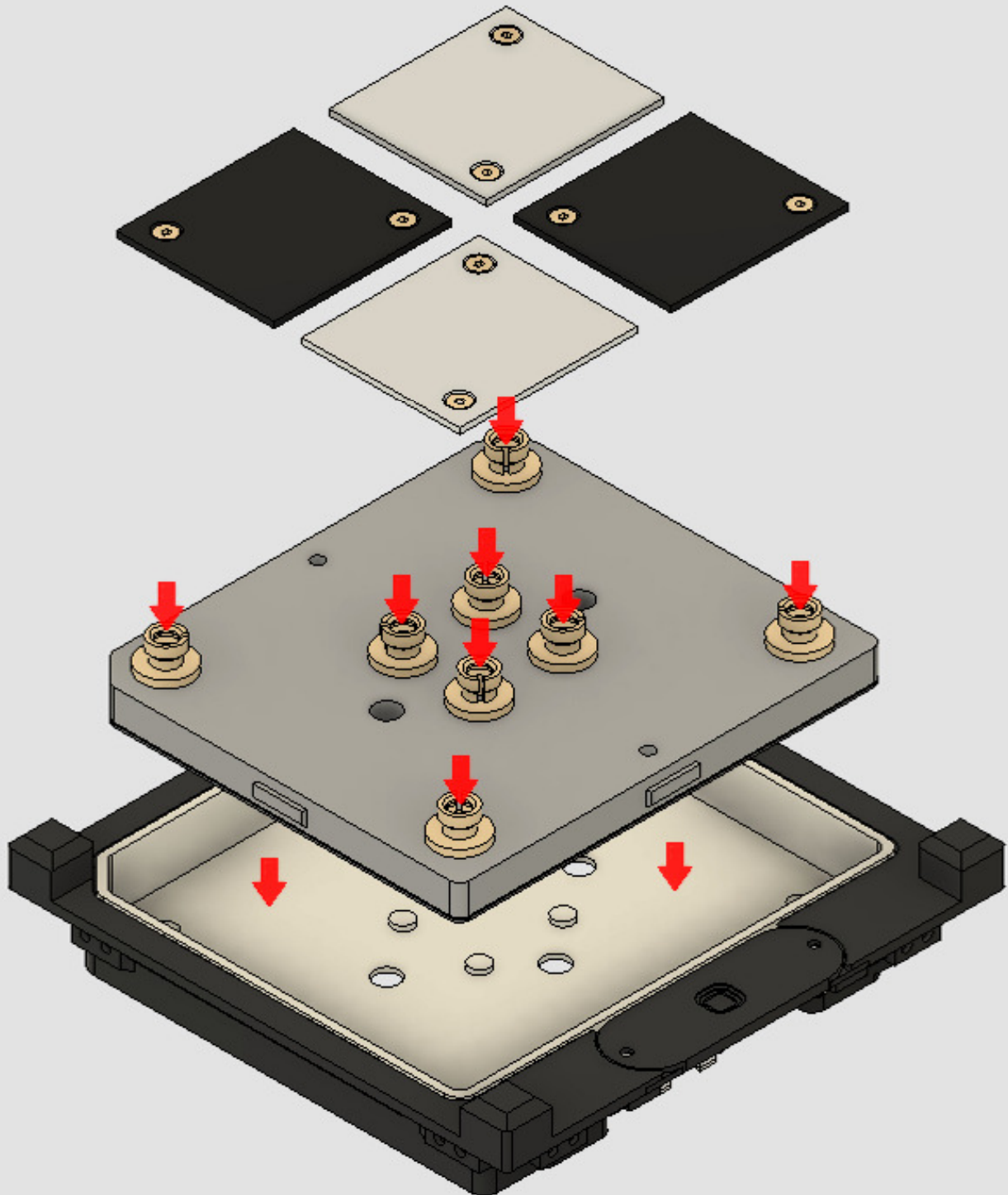


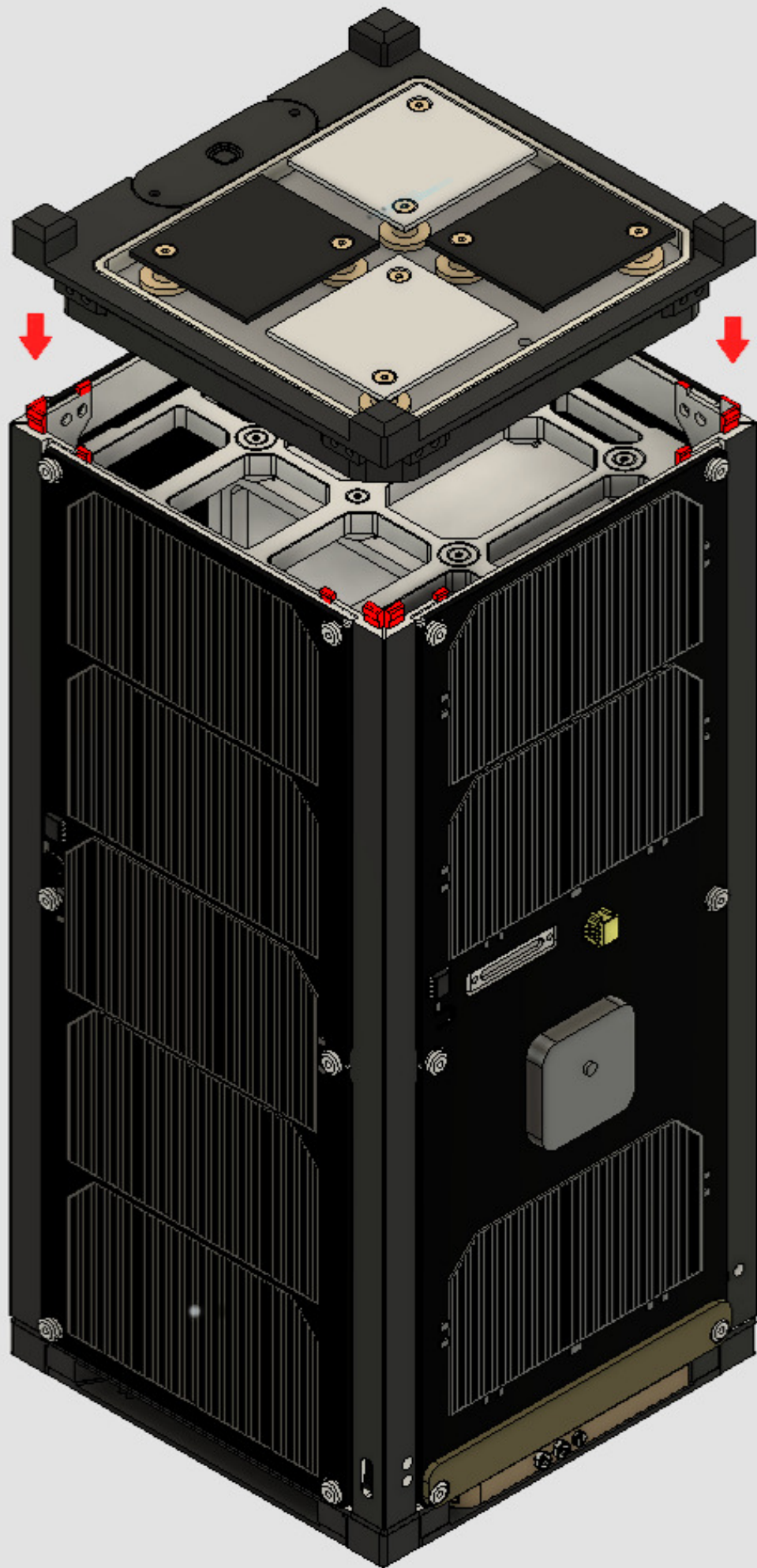
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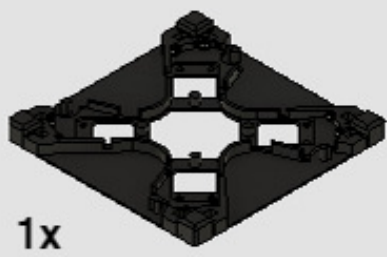




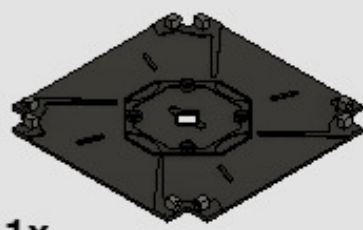
25







1x



1x



1x



1x



1x



1x



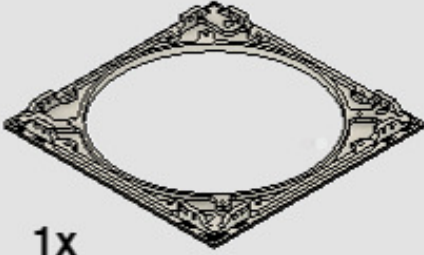
4x



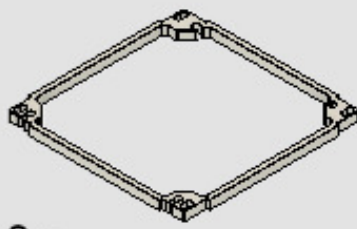
2x



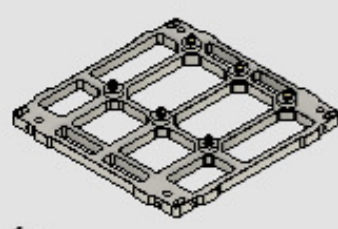
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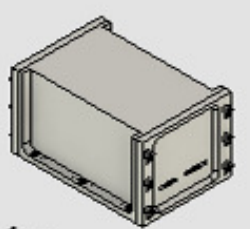
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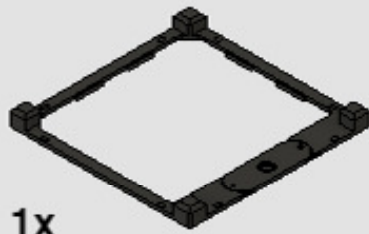
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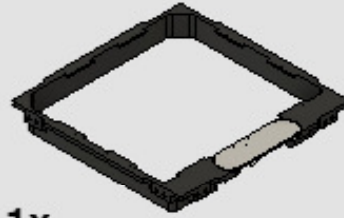
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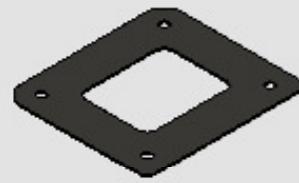
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1x



1x



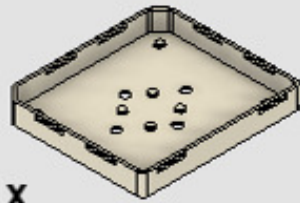
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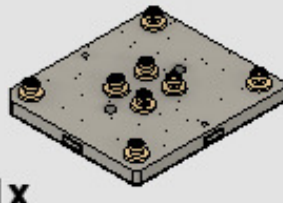
1x



3x



1x



1x



2x



2x



2x



2x



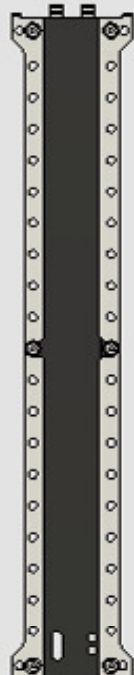
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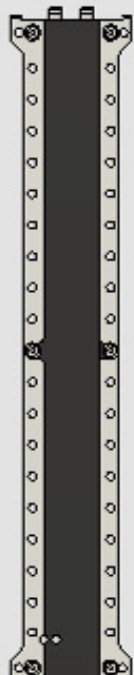
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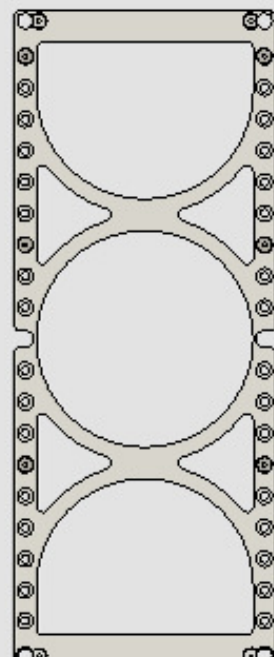
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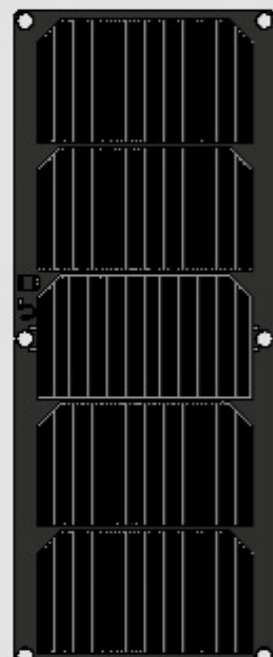
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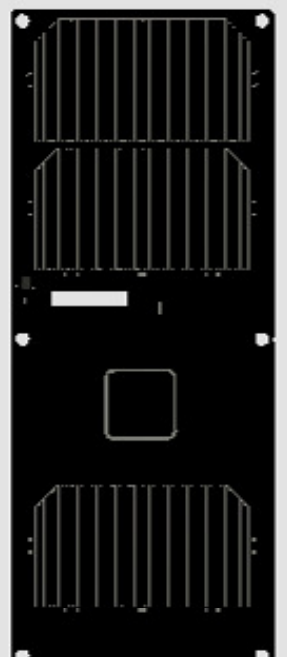
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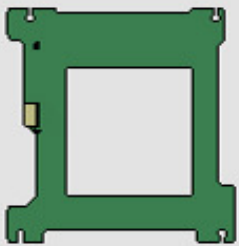


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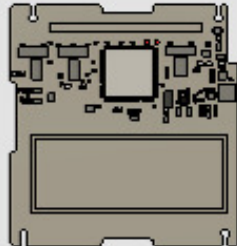


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42



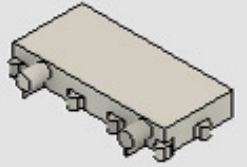
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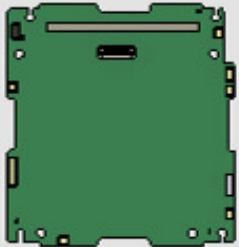
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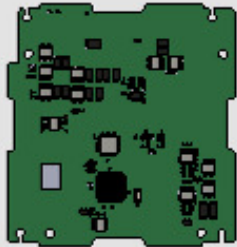
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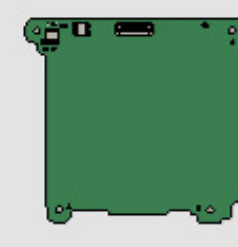
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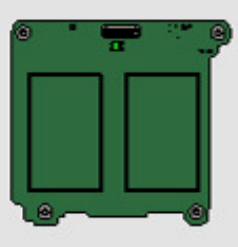
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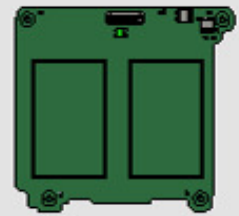
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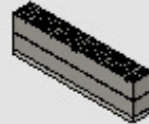
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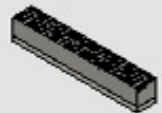
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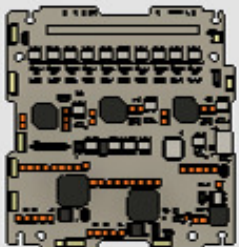
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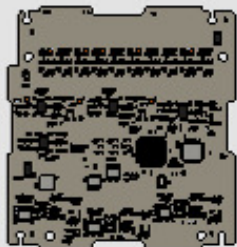
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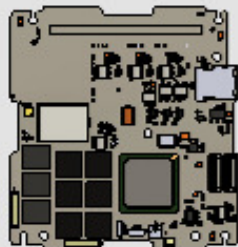
5x



1x



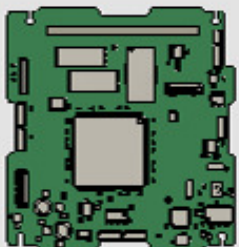
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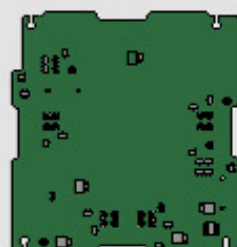
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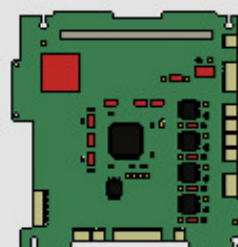
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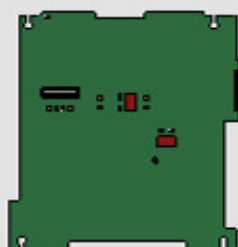
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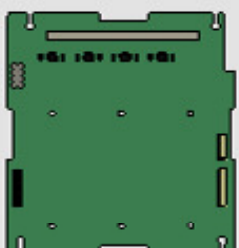
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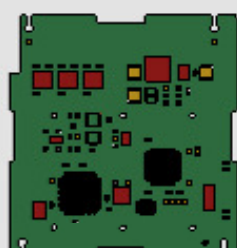
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1x



1x



1x