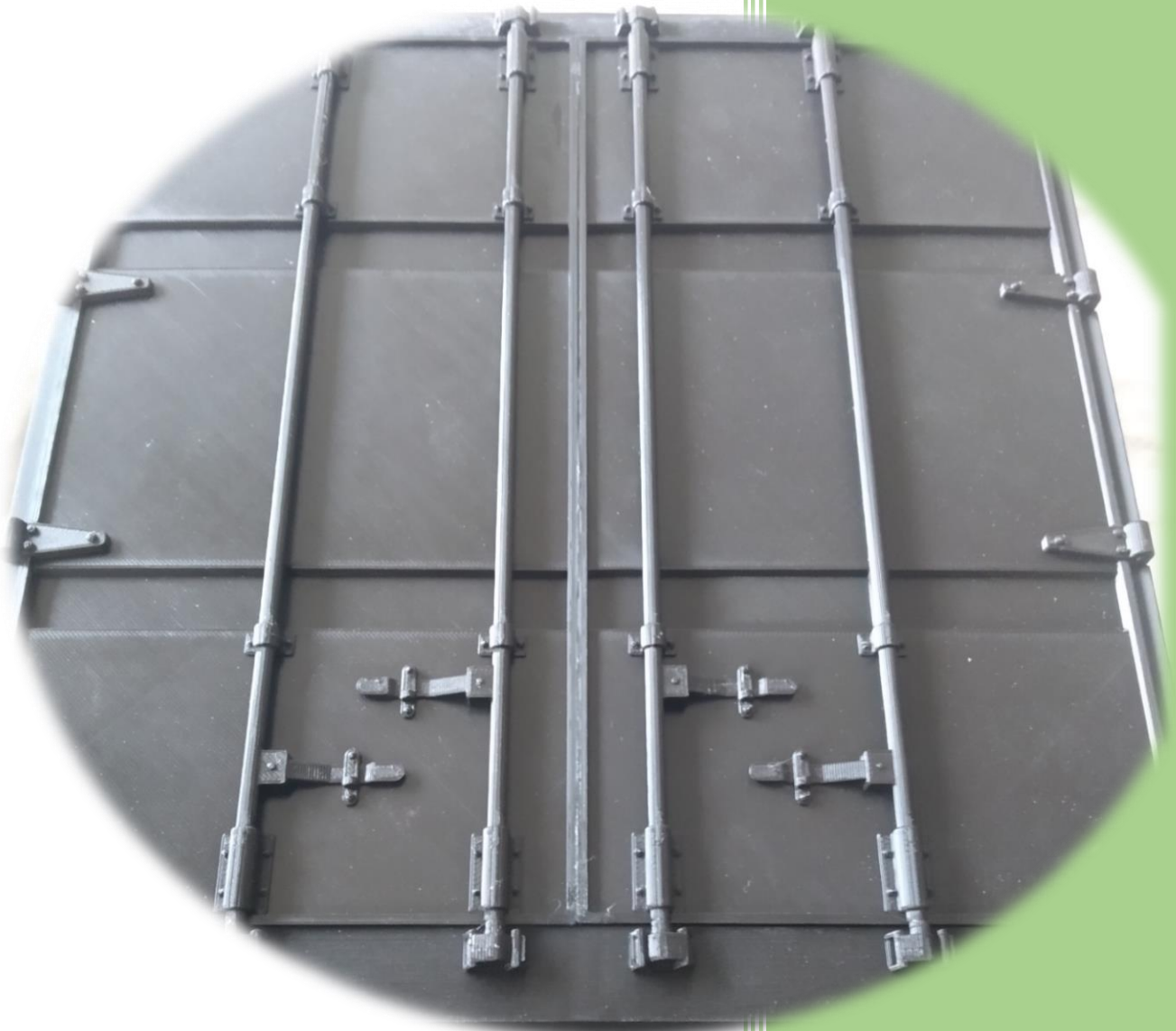


Construction instructions

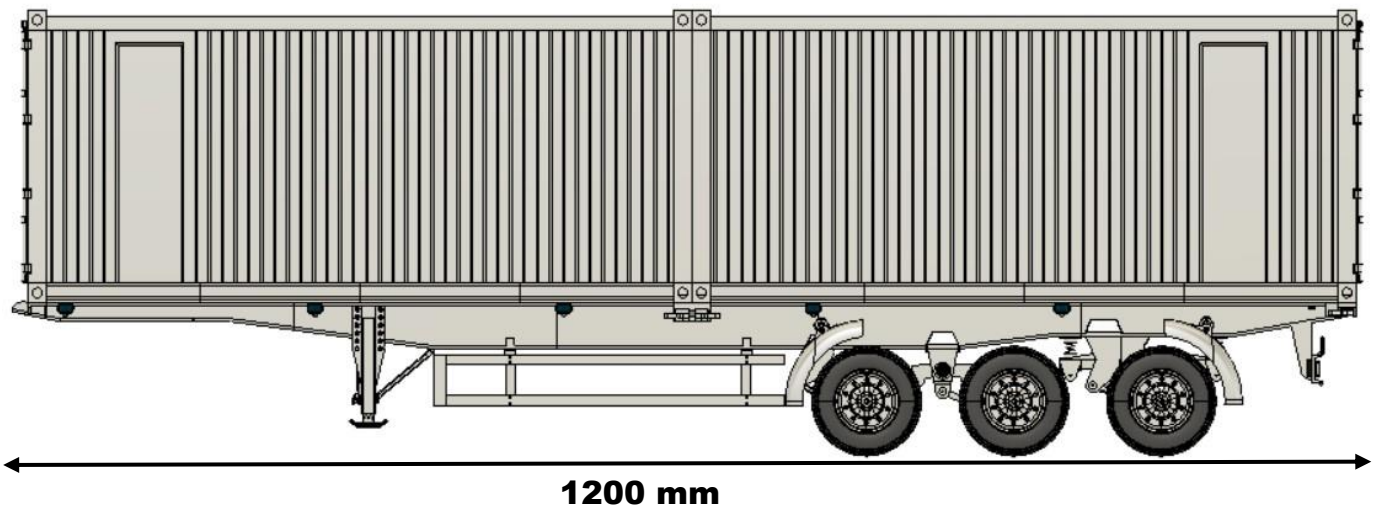
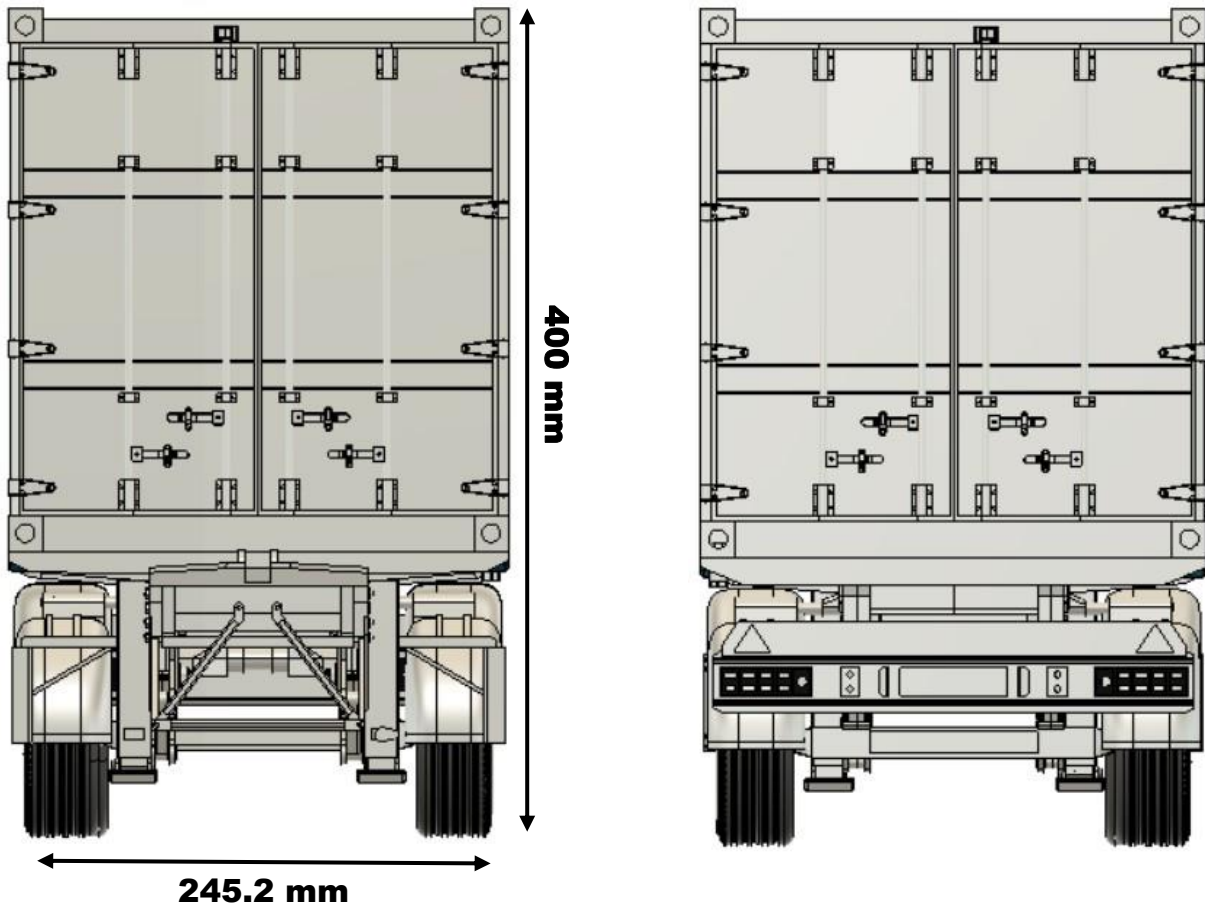


Miroslav Liesner

www.mlmodel.webnode.cz

Instructions for the construction of the trailer

1/10



Autor: Miroslav Liesner

Web: <http://www.mlmodel.webnode.cz>

E-mail: ssiforum@seznam.cz

Thank you for purchasing the STL files of the trailer model.

I tried to prepare the parts
as closely as possible with regard to simplicity and possible repairability.
Some parts may not exactly be the same as the pictures in this walkthrough.
These are later modified or improved parts.

Please follow the updates:

<http://www.mlmodel.webnode.cz>

**It also includes a functional turn turntable compatible with
AustralienTruck.**

Includes ready-made gcod files for PrusaMK3S+

For construction you will need:

3D printer with 25x20 cm print area

4 kg quality PLA

Transparent PLA Crystal Clear from Fillamentum – parts are marked "Clear" in the instructions

Flex filament for tires (not a condition)

Ball bearings 10x15x4 - 12pcs

Tires 100 mm – 6pcs or you can print them

Medium cyanoacrylate glue + activator

LED rectangular different colors 2x5mm

LED 5mm

M2 screws

M3 screws

Standard servo

Spring 9x35mm

PTFE Vaseline and a few other things (paints, varnish, etc.)

Recommended print settings:

Spurts: 0.4mm

Extrusion width: 0.48 mm

Layer height: 0.15 mm – 0.2 mm

Fill: 25%,

Perimetry: 2-3

Parts to be printed differently are listed in the title.

Tisk speed: 70 mm/s, outdoor perimeters 30 mm/s

Teploty: 220°C HE, 50°C HB

Parts printed with support are called "support".

This is my recommended printer settings,
however, you can also use your proven one.

Before gluing the parts, test their settling.

**To compare the contact surfaces, use the file,
sharp knife or sandpaper.**

**The most common problem is the "elephant's foot" - the extension of
the press
on the pad. This needs to be sharpened.**

Photo gallery: https://ssiforum.rajce.idnes.cz/Trailer_40_Container_1_10/

Videa: <https://www.youtube.com/user/ssiforum/videos>

The semi-trailer is designed for maximum flexibility.

Includes 8 locks

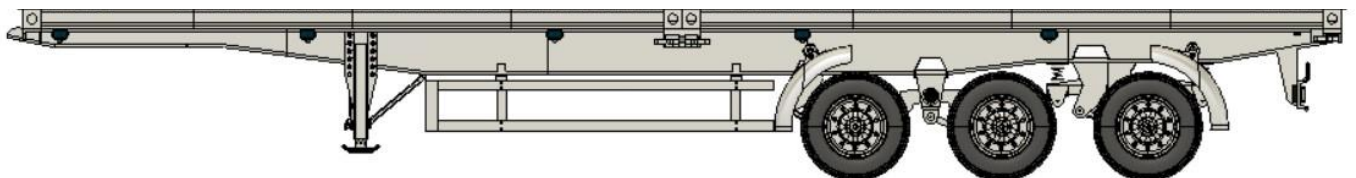
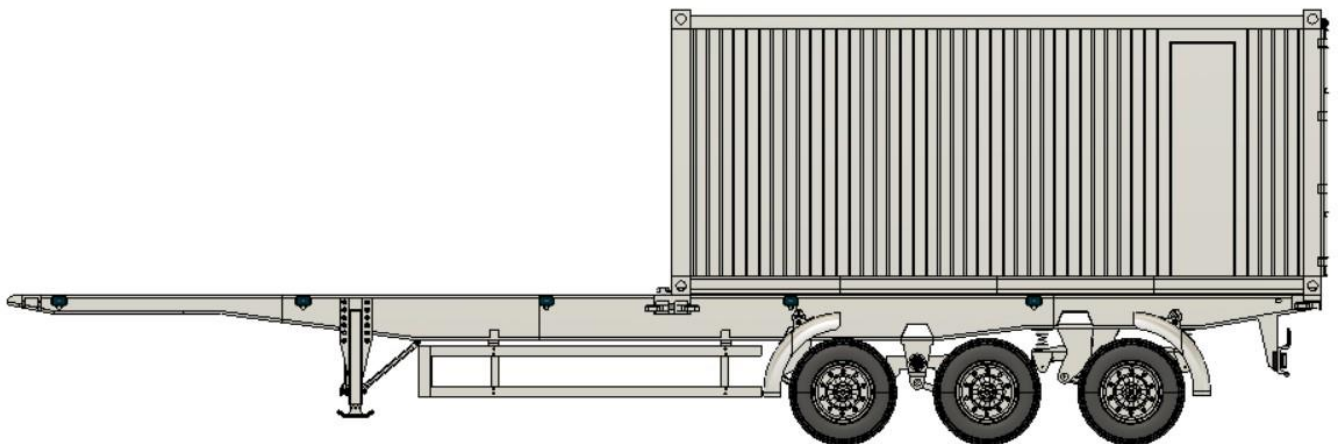
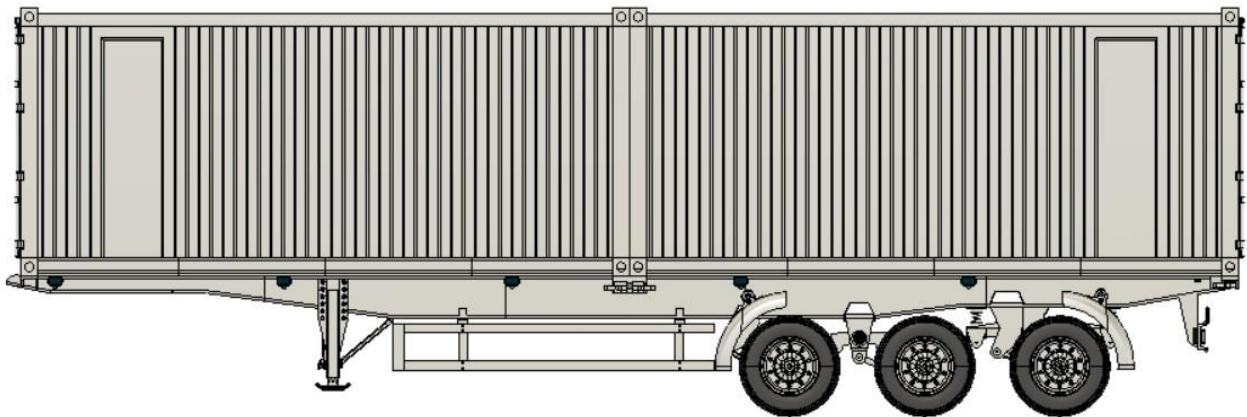
You have the possibility of several combinations:

container - container or nothing - container

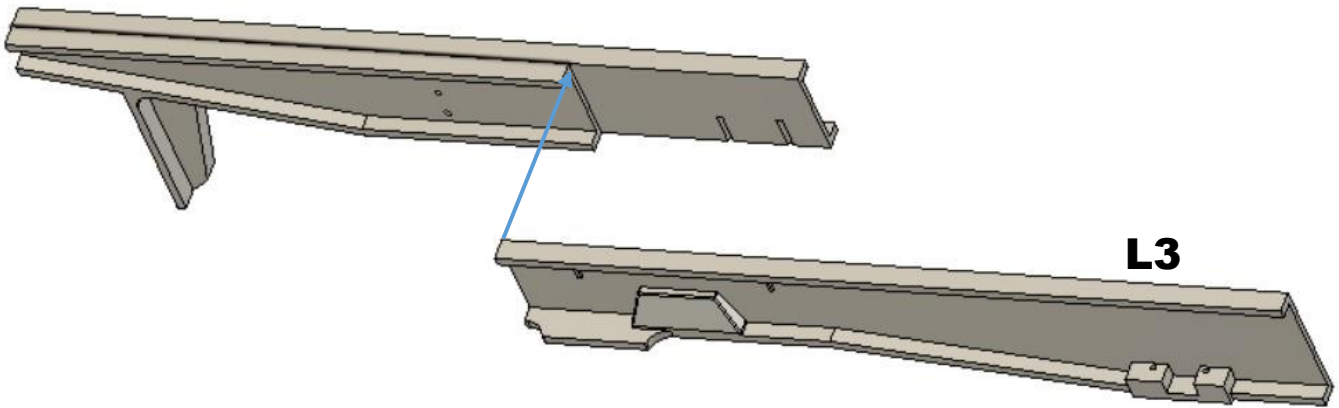
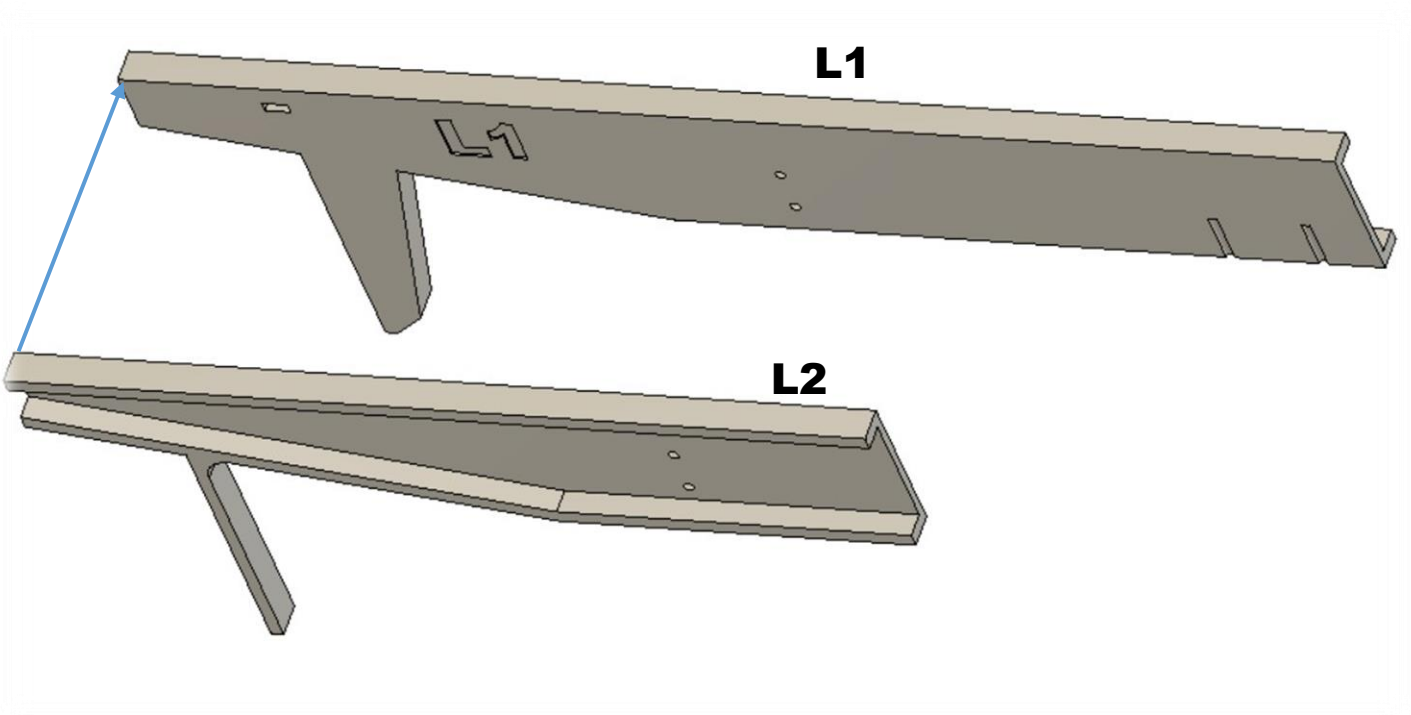
floor - container or floor - nothing

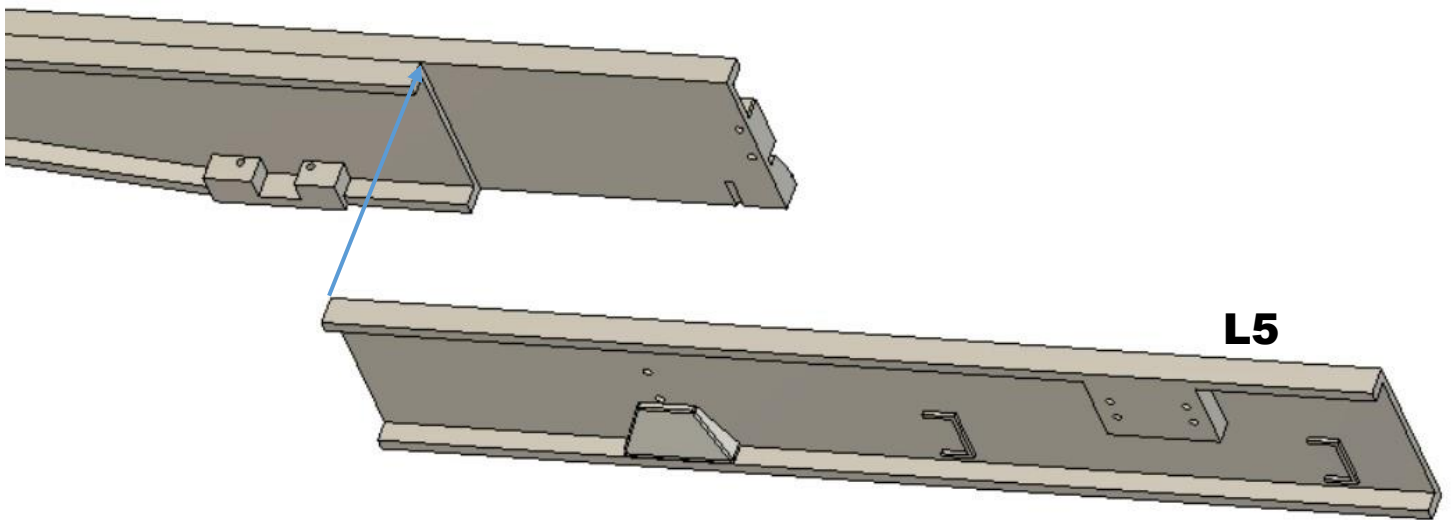
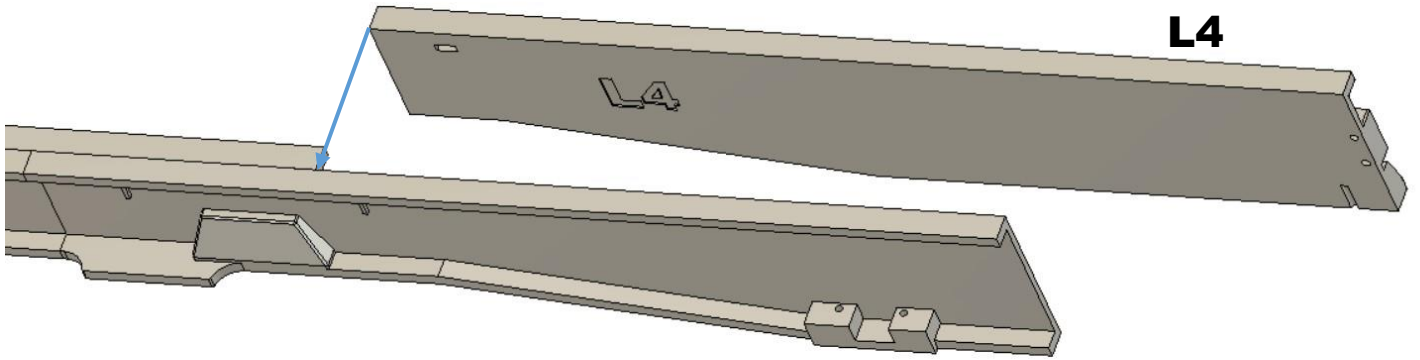
floor - floor

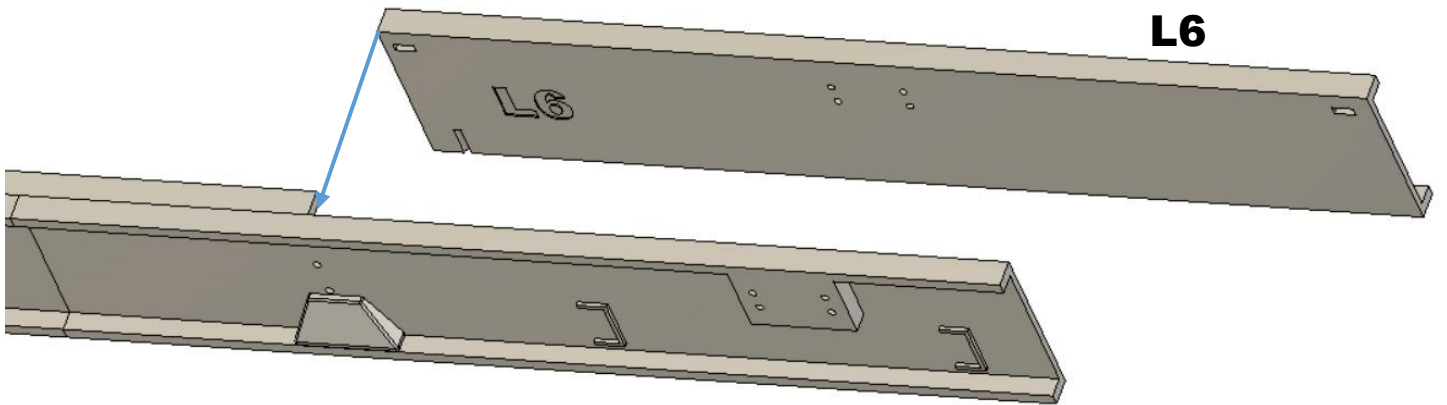
and more



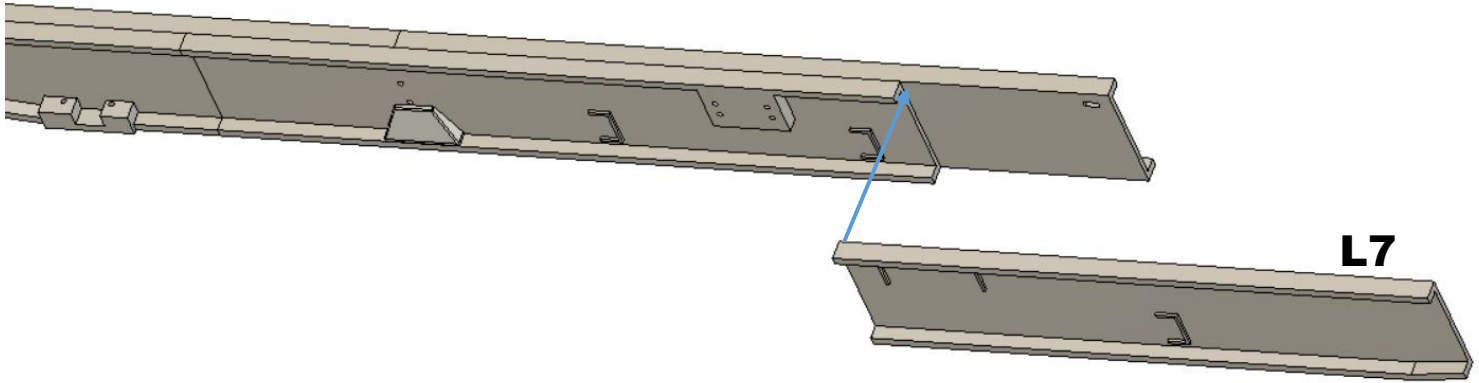
Chassis



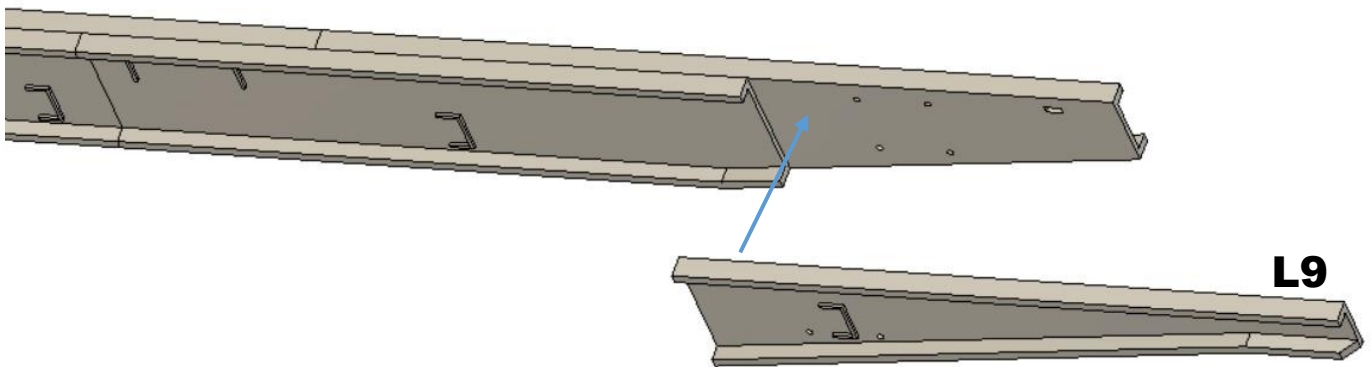
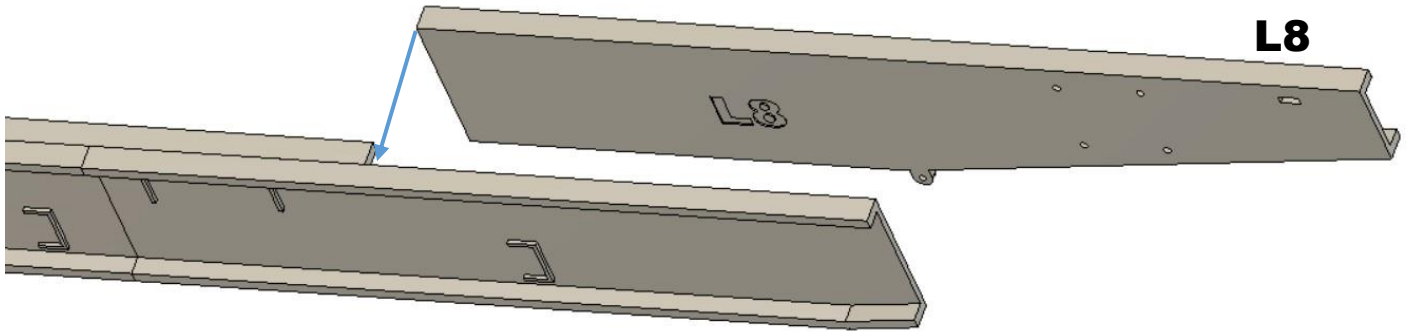


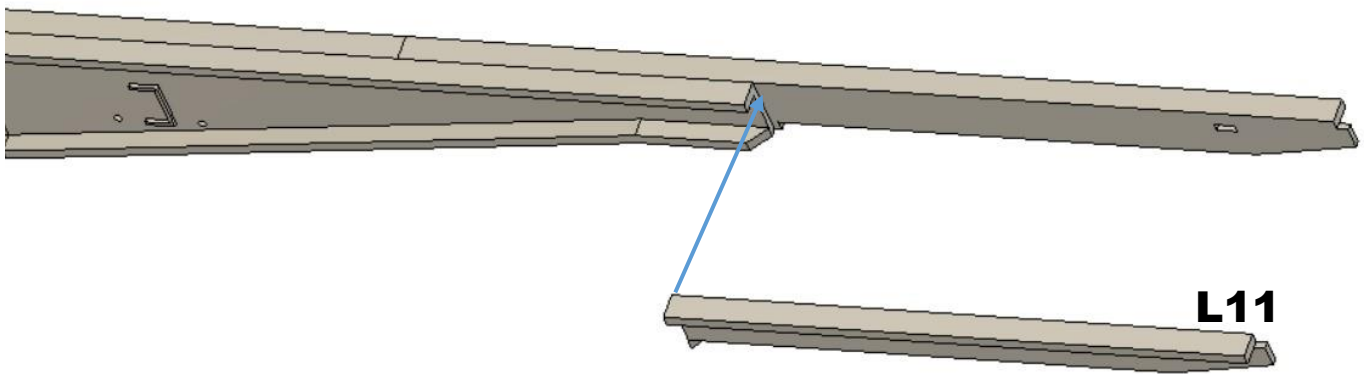
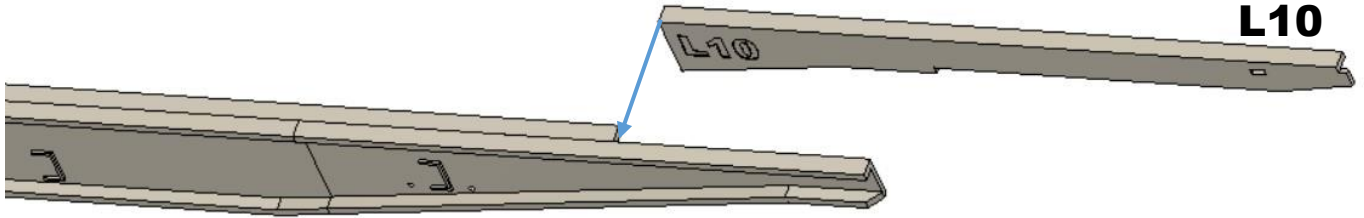


L6

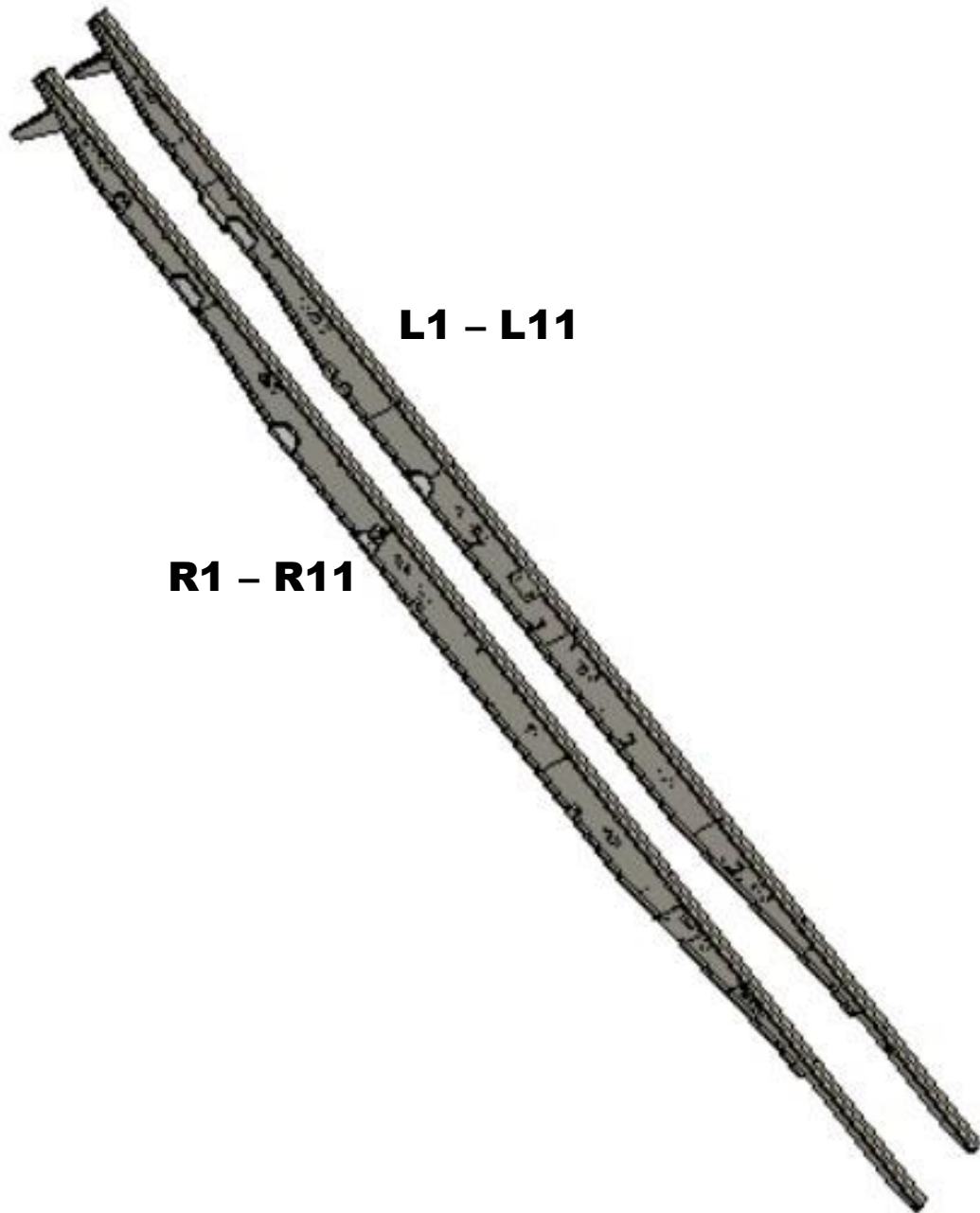


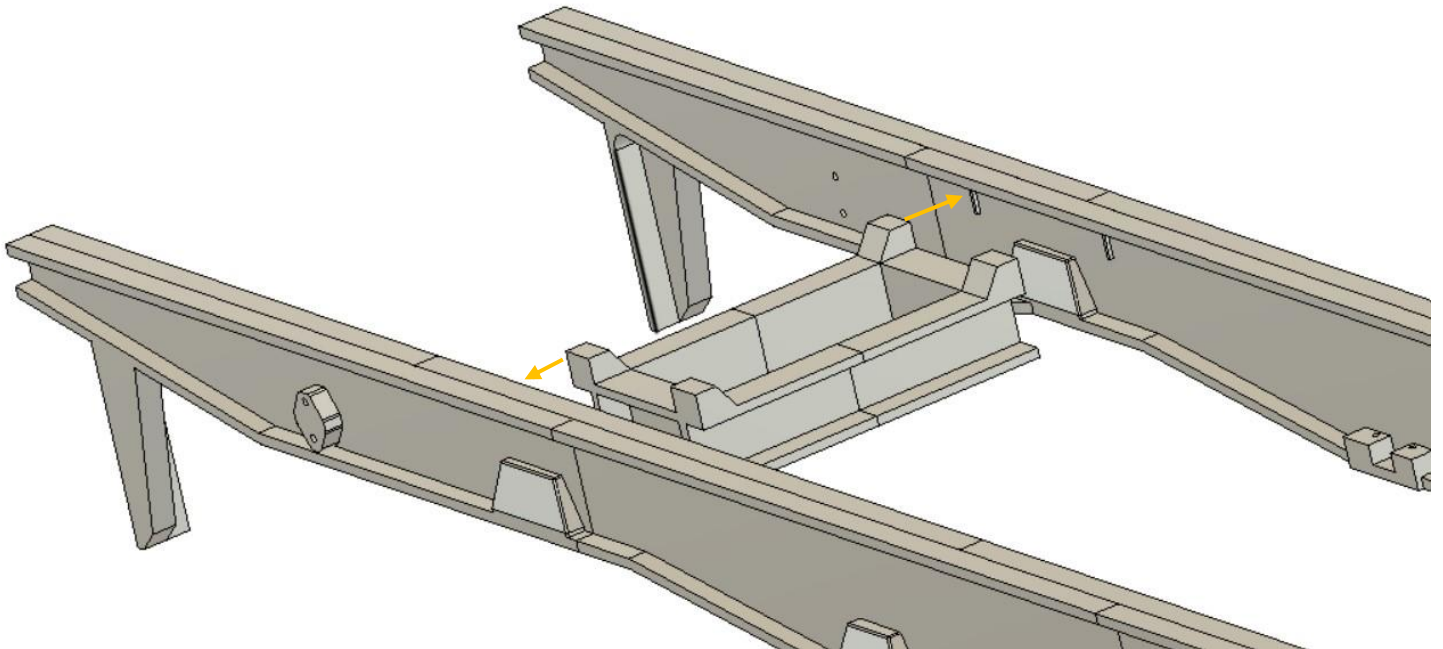
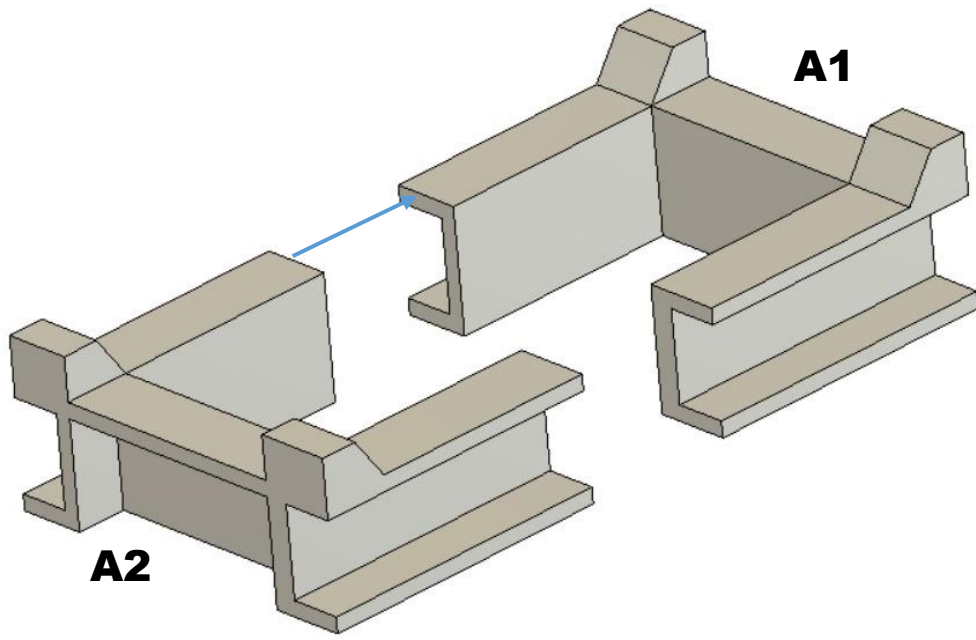
L7

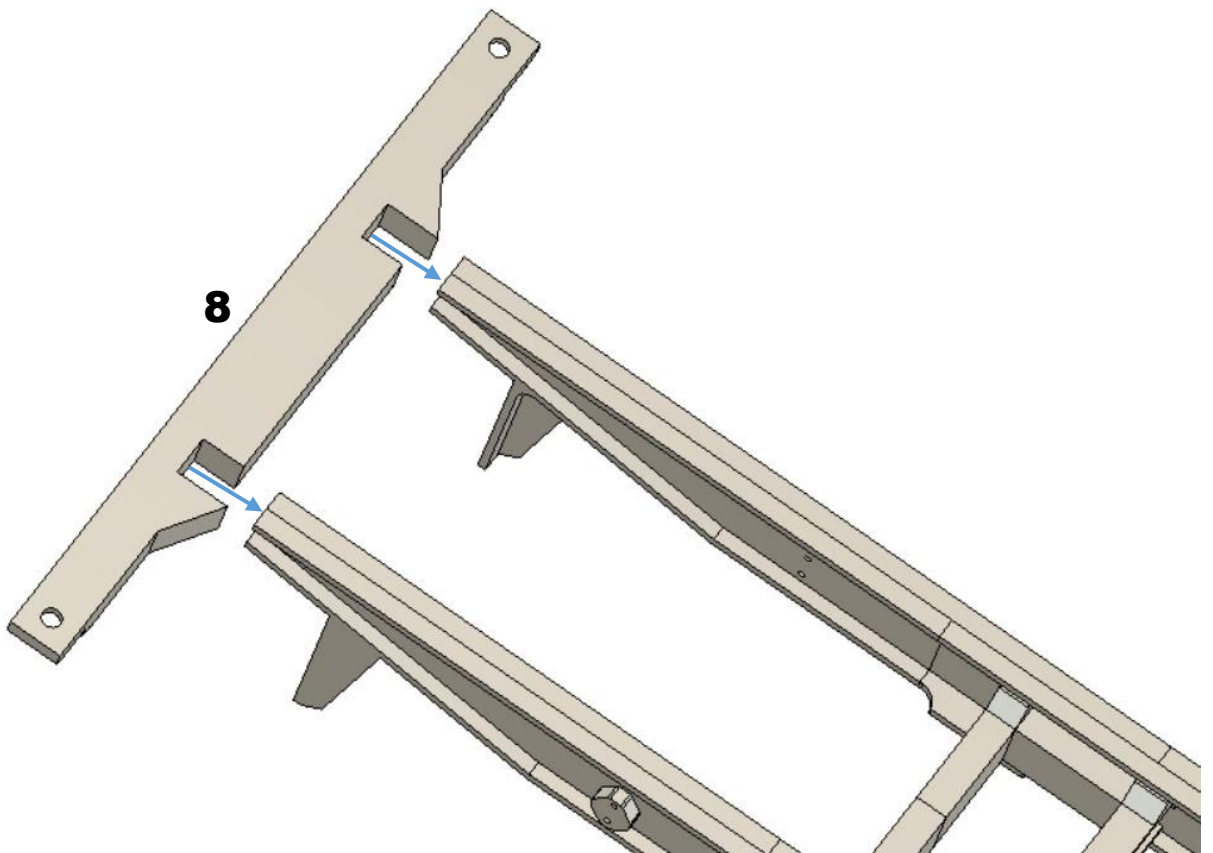
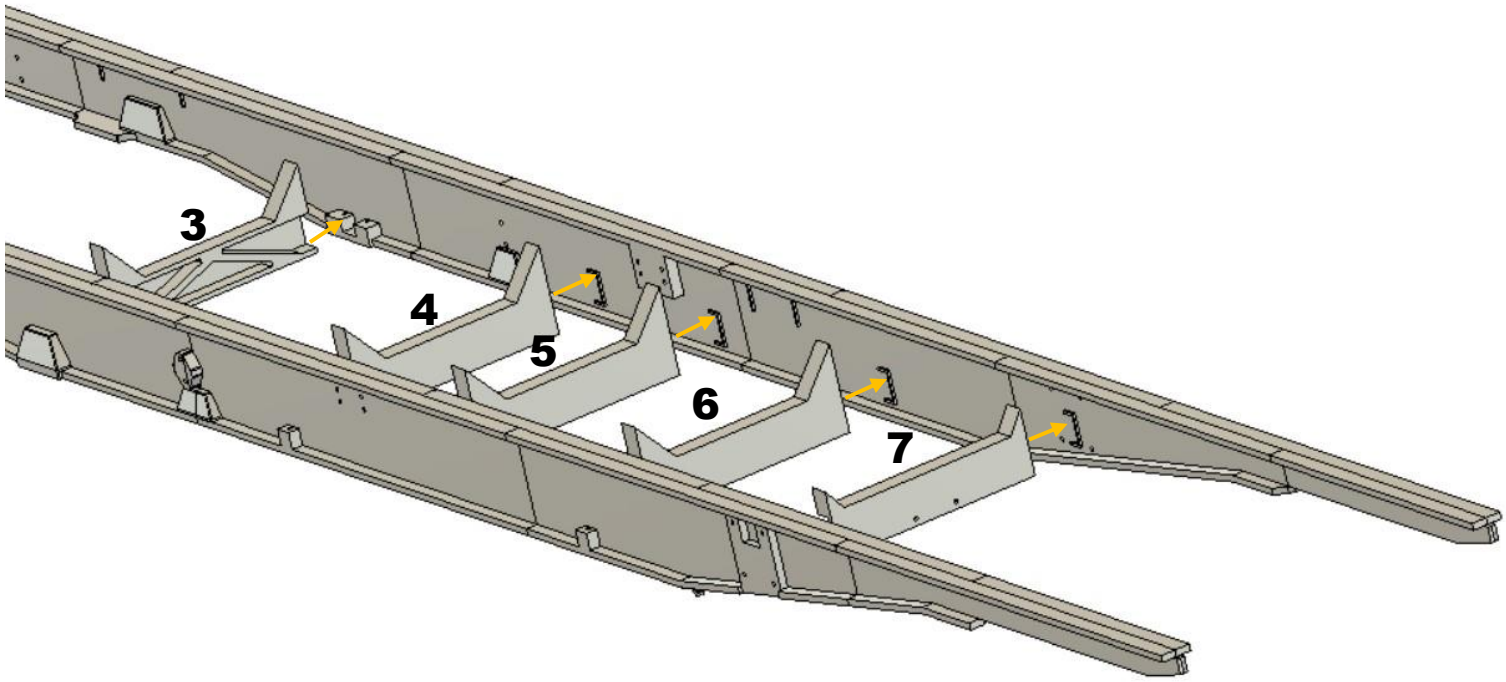


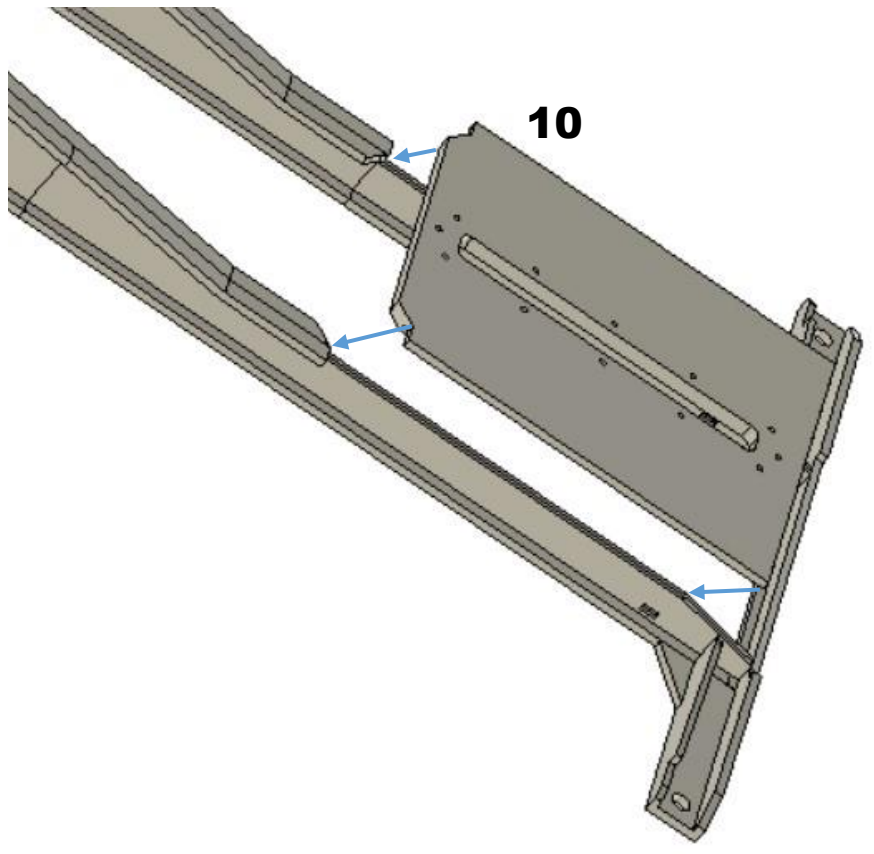
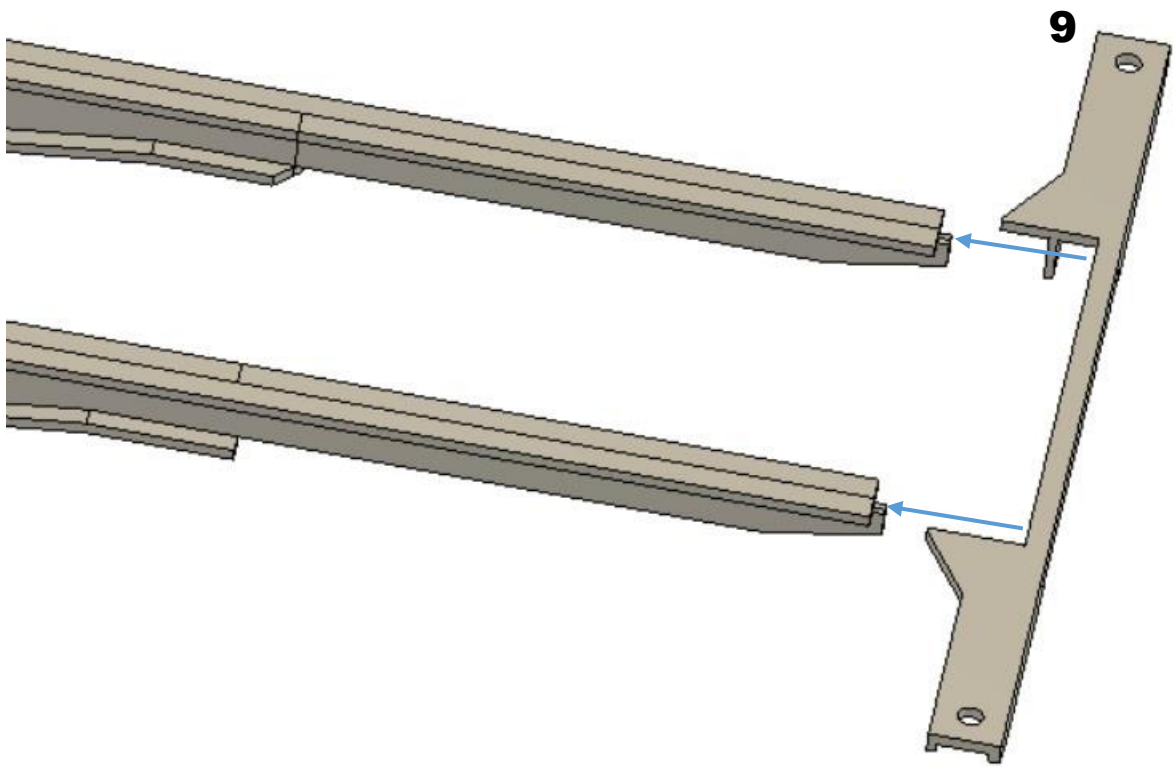


Repeat the same procedure for the right side, parts R1 to R11.

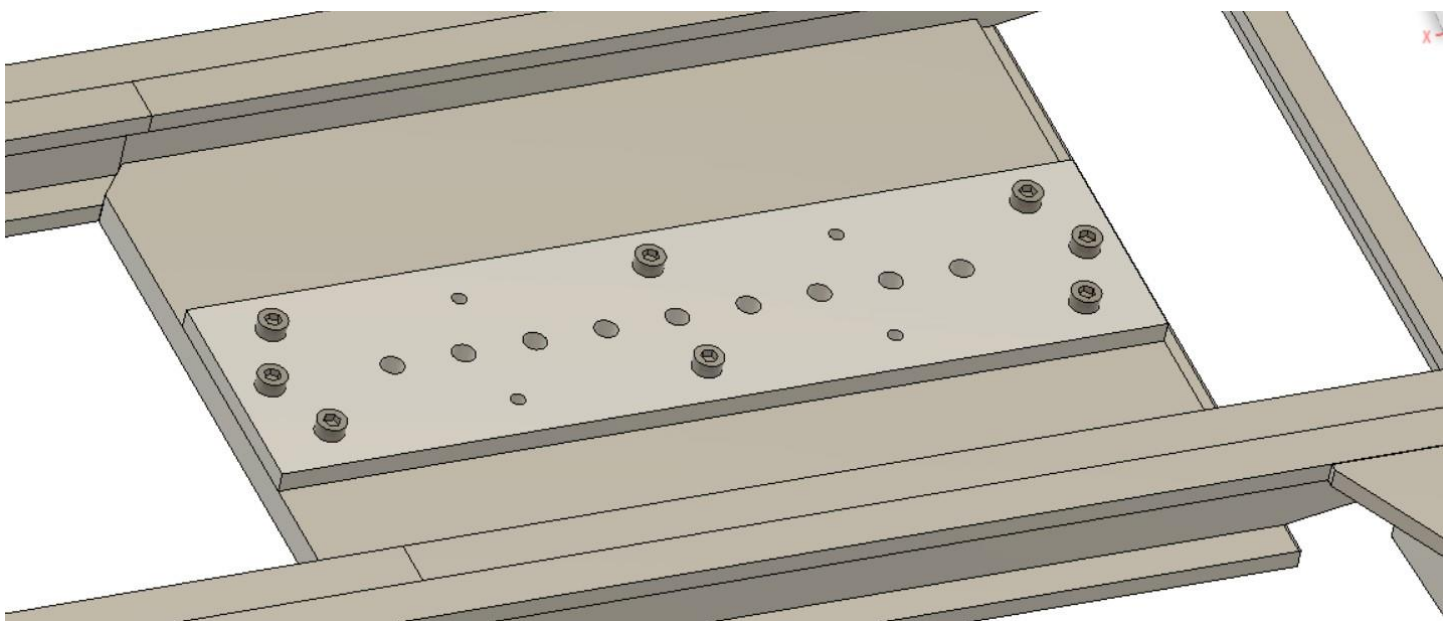
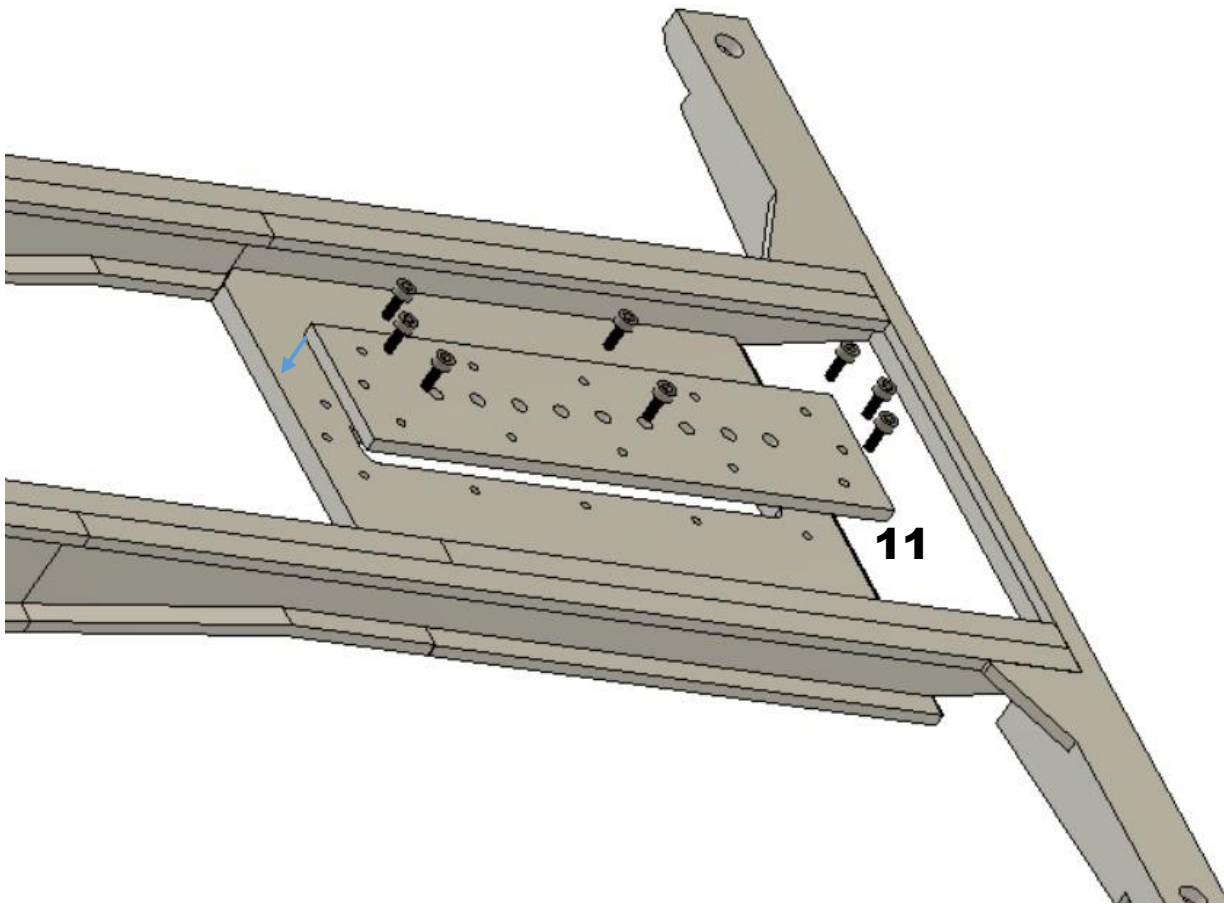


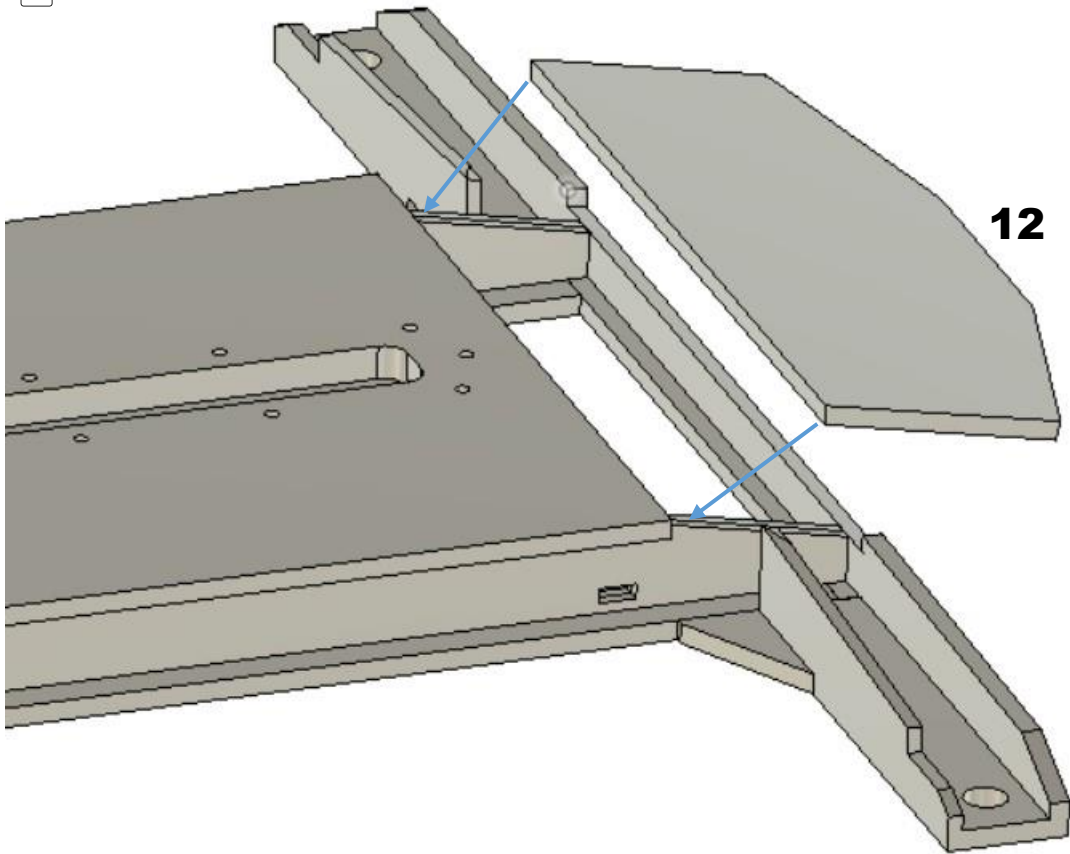






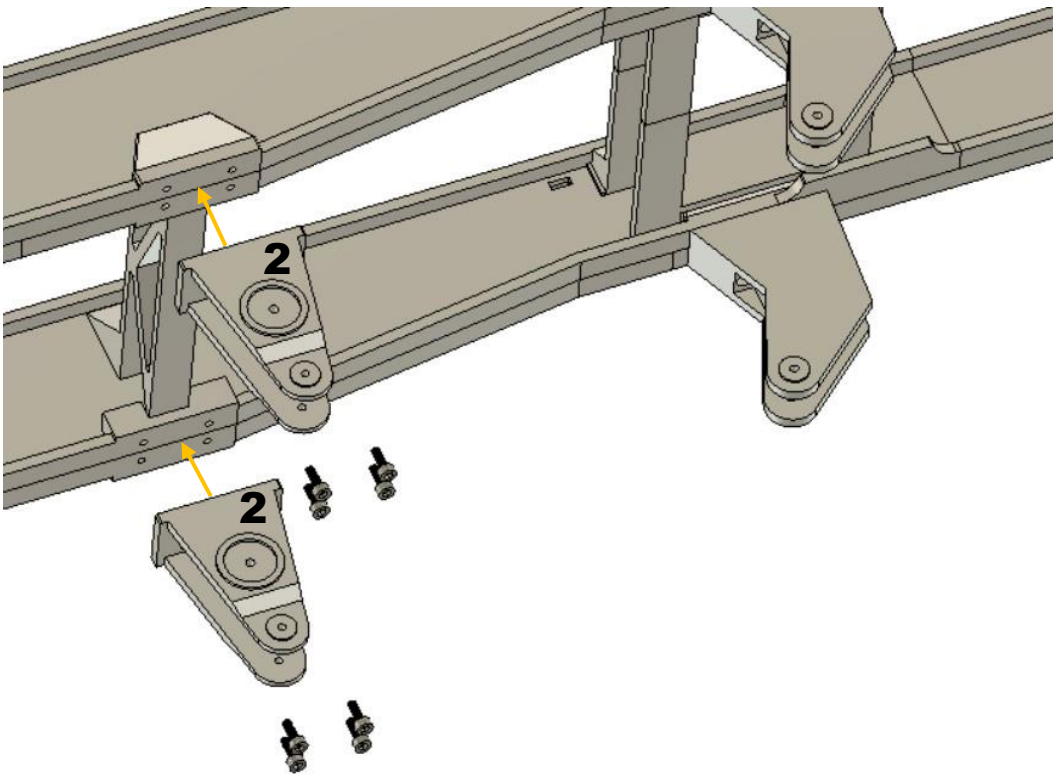
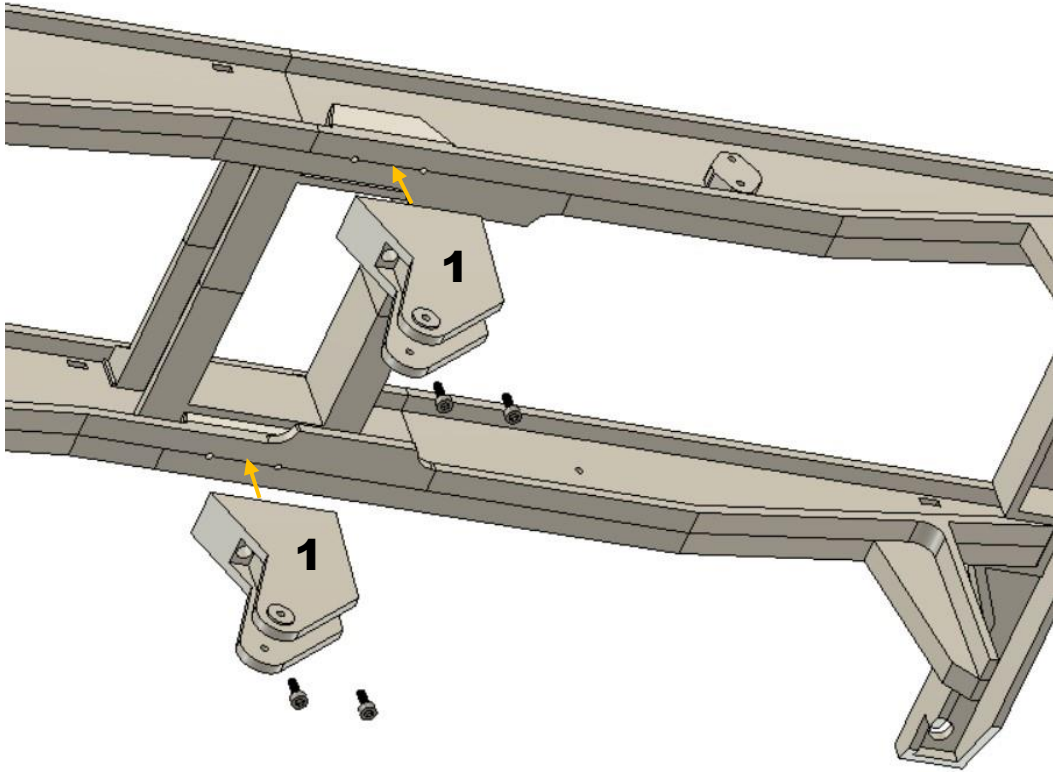
M2x6

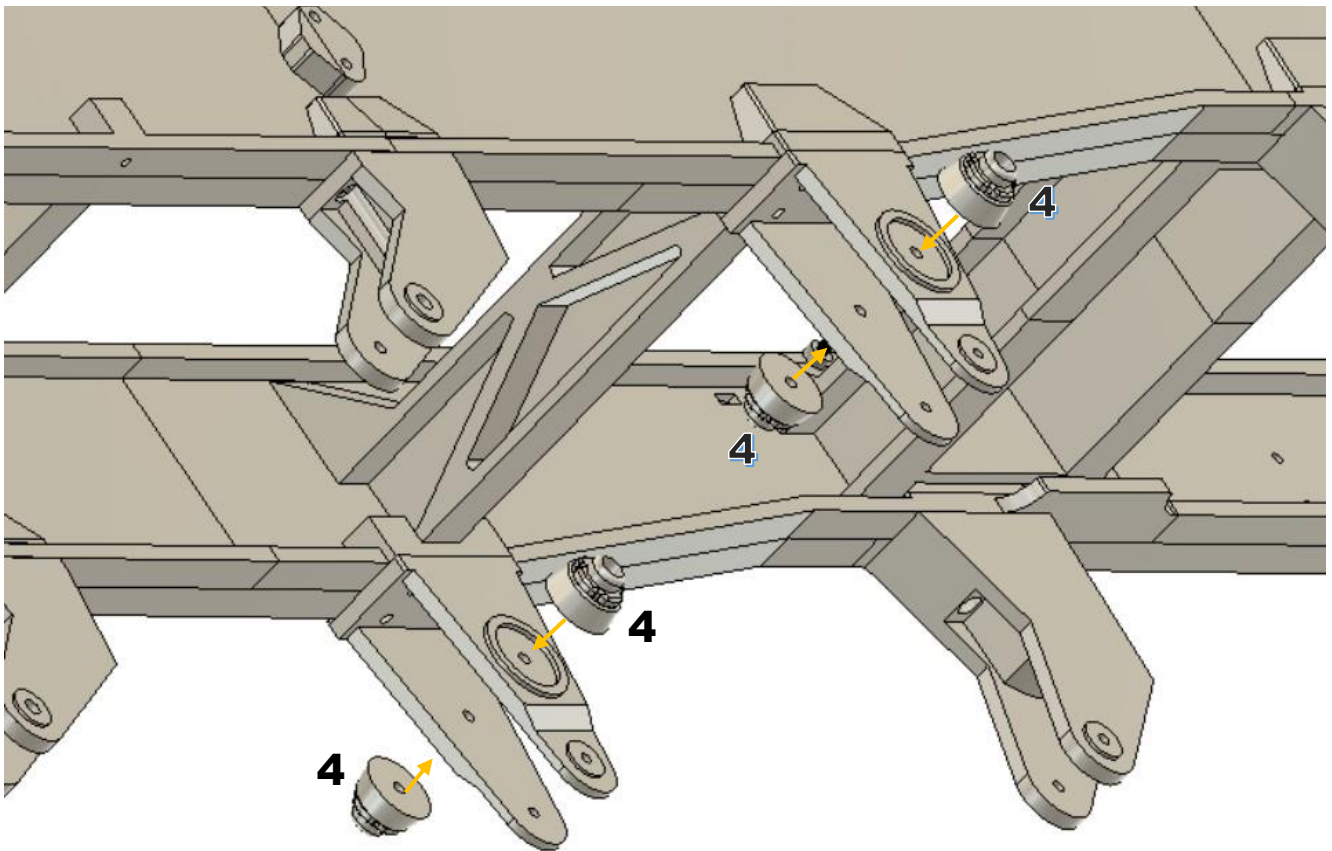
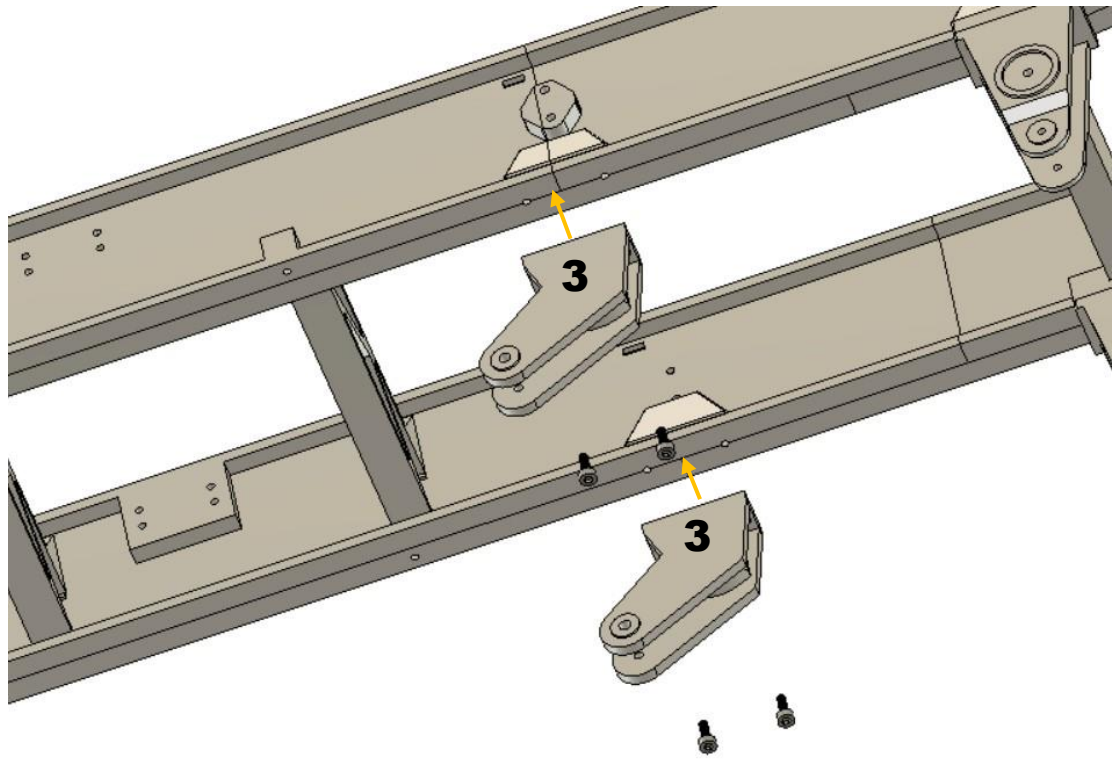


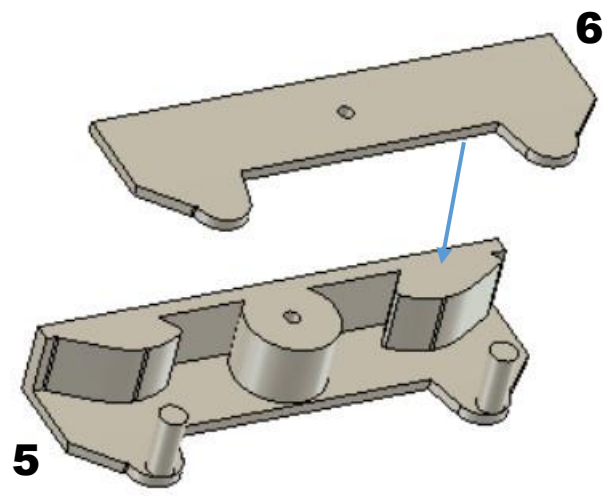


Suspension

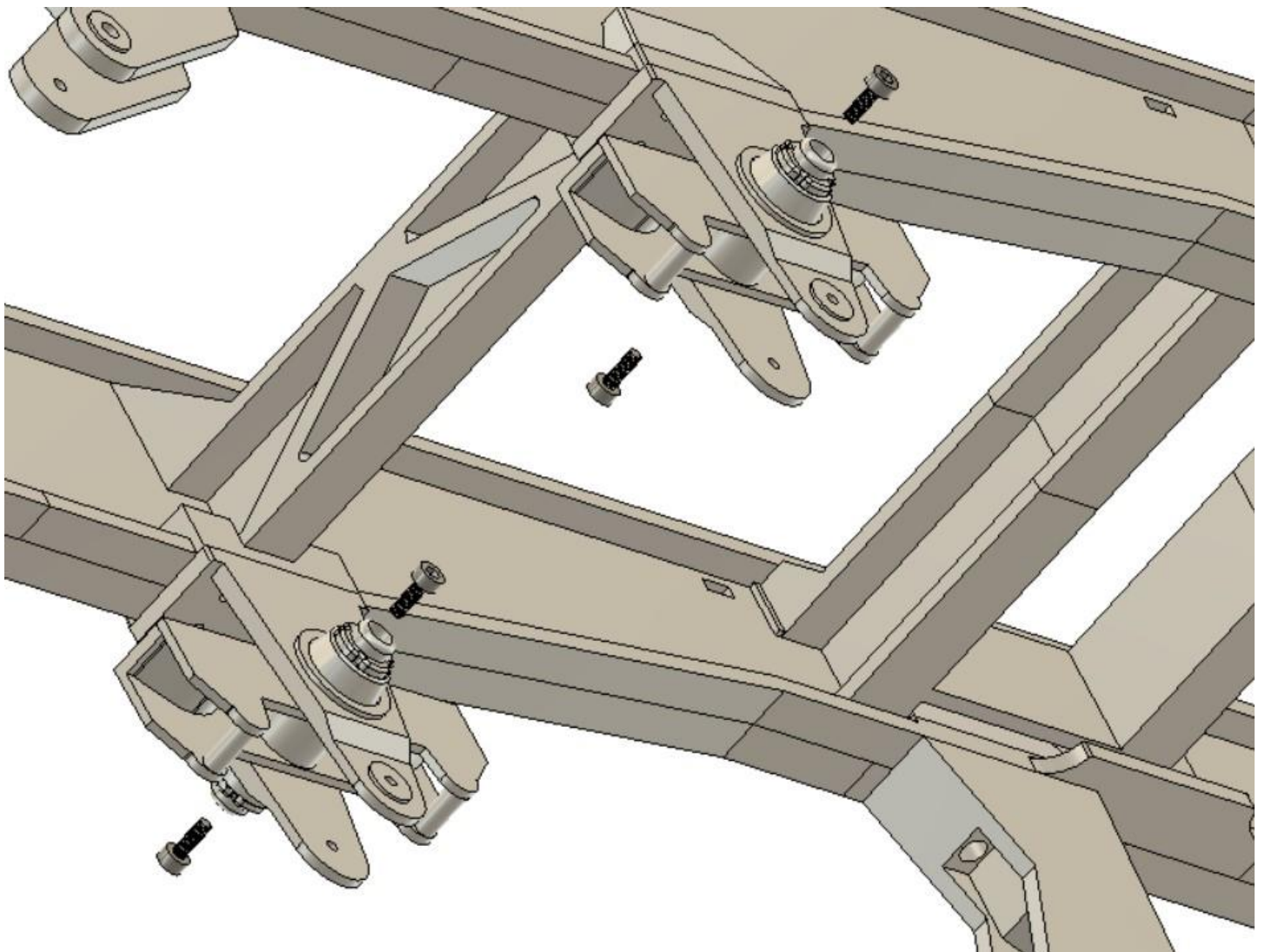
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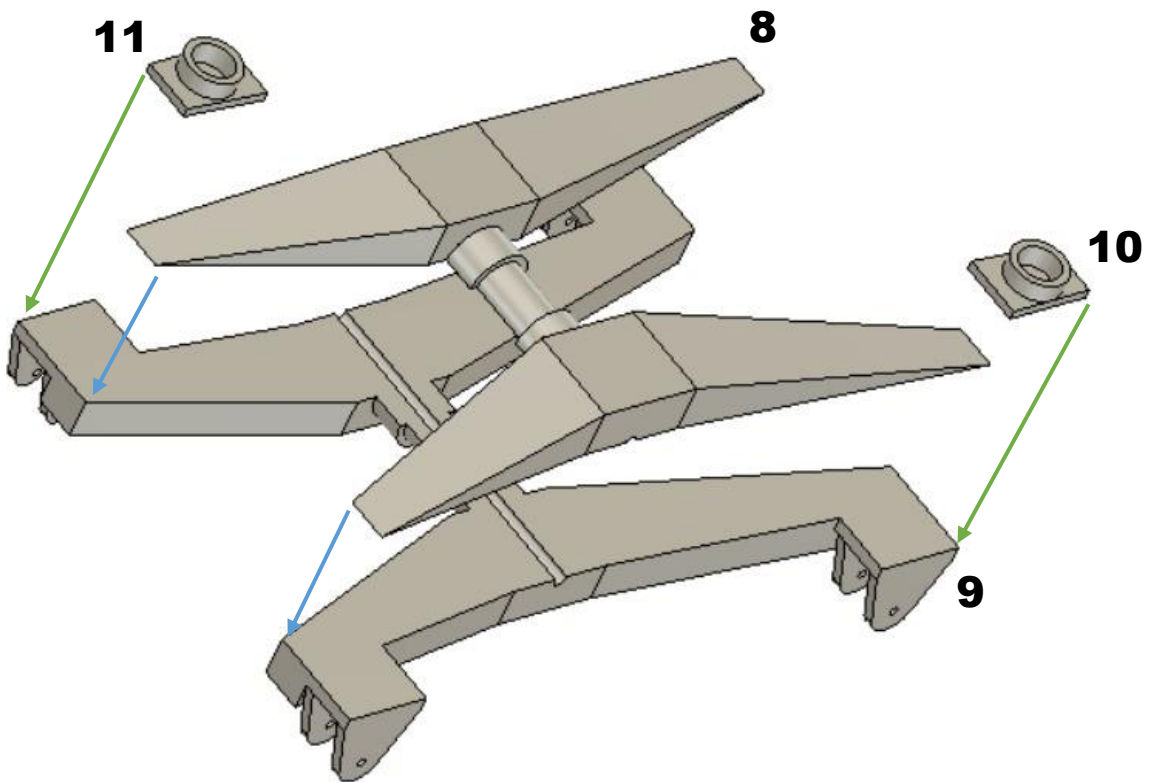
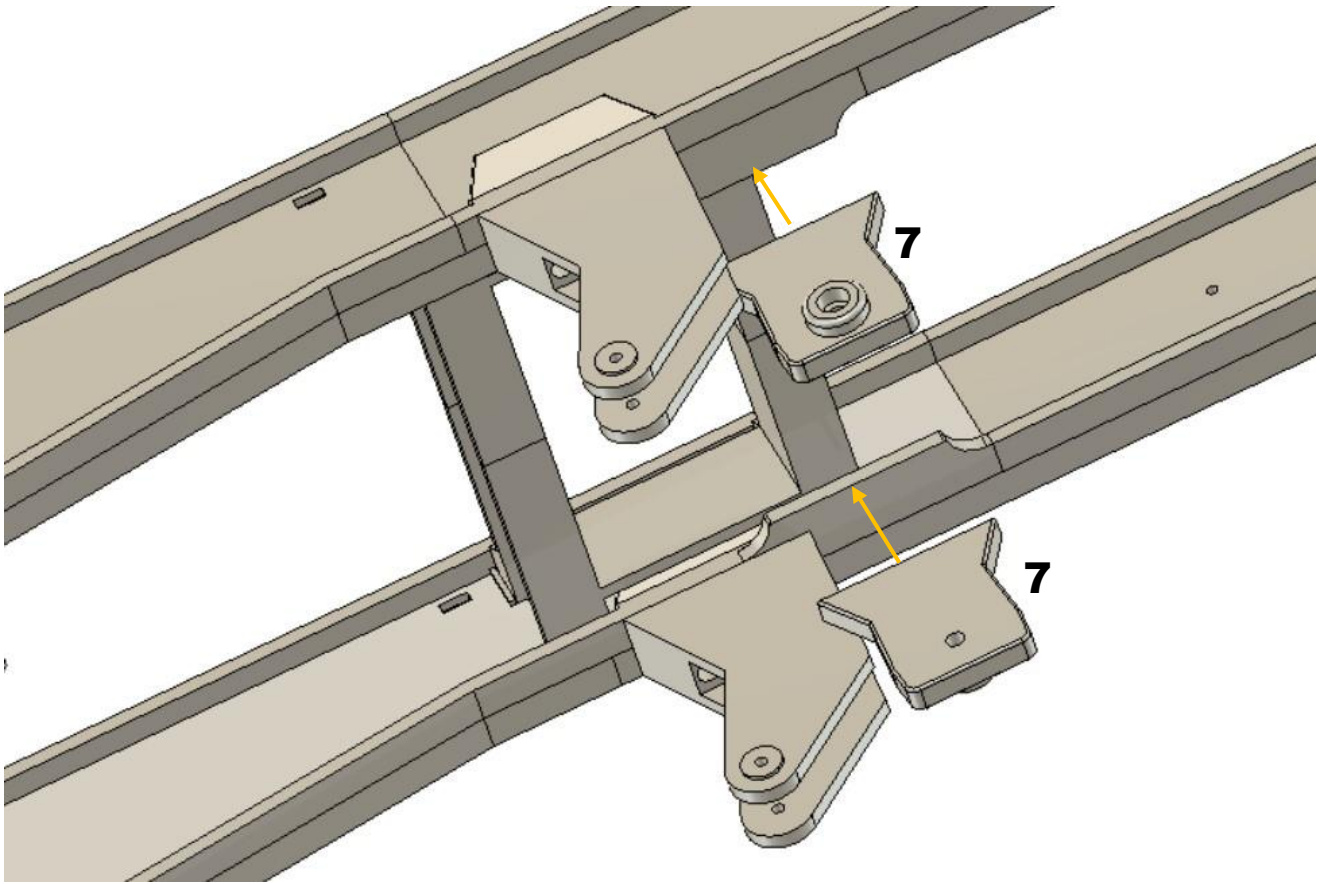




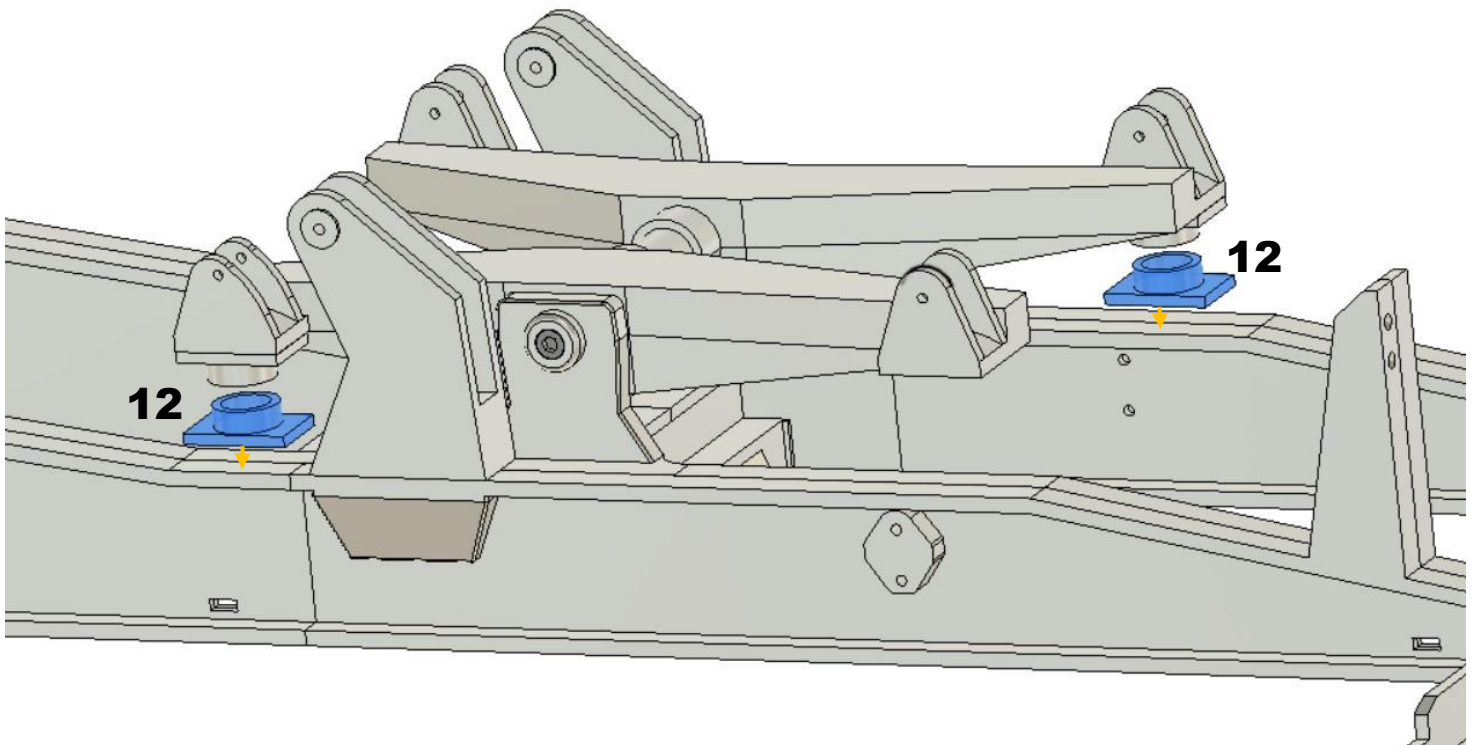
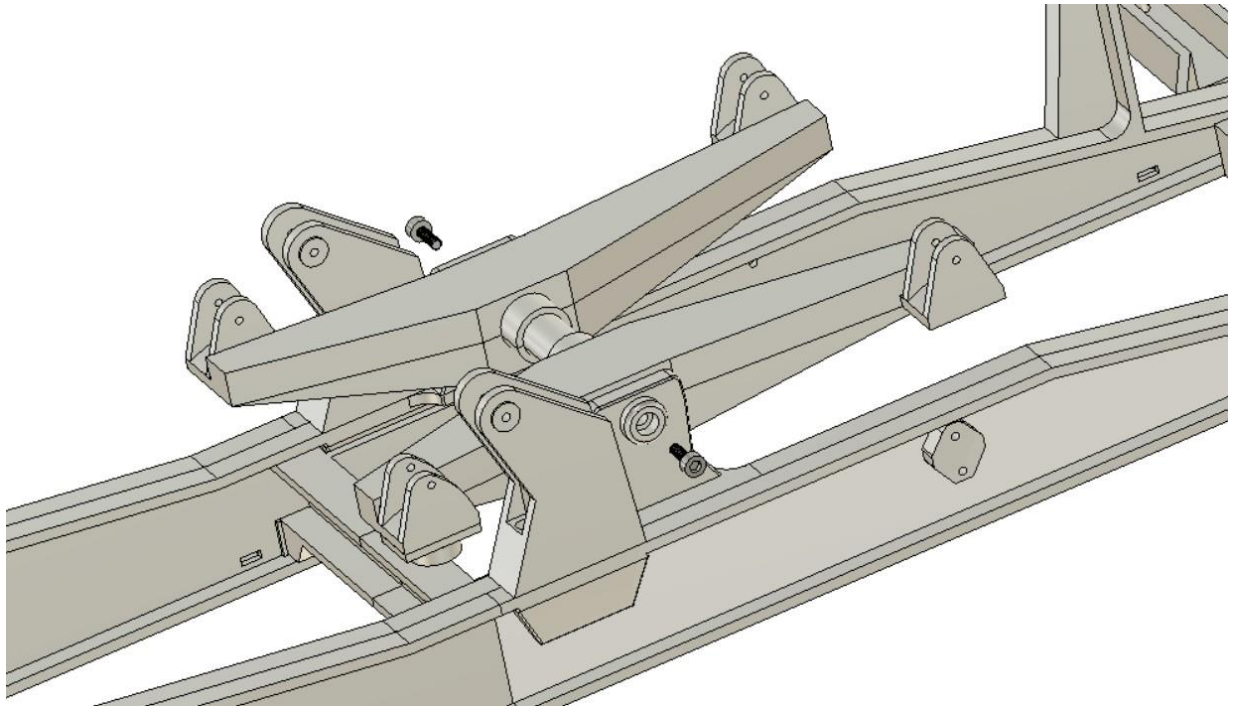


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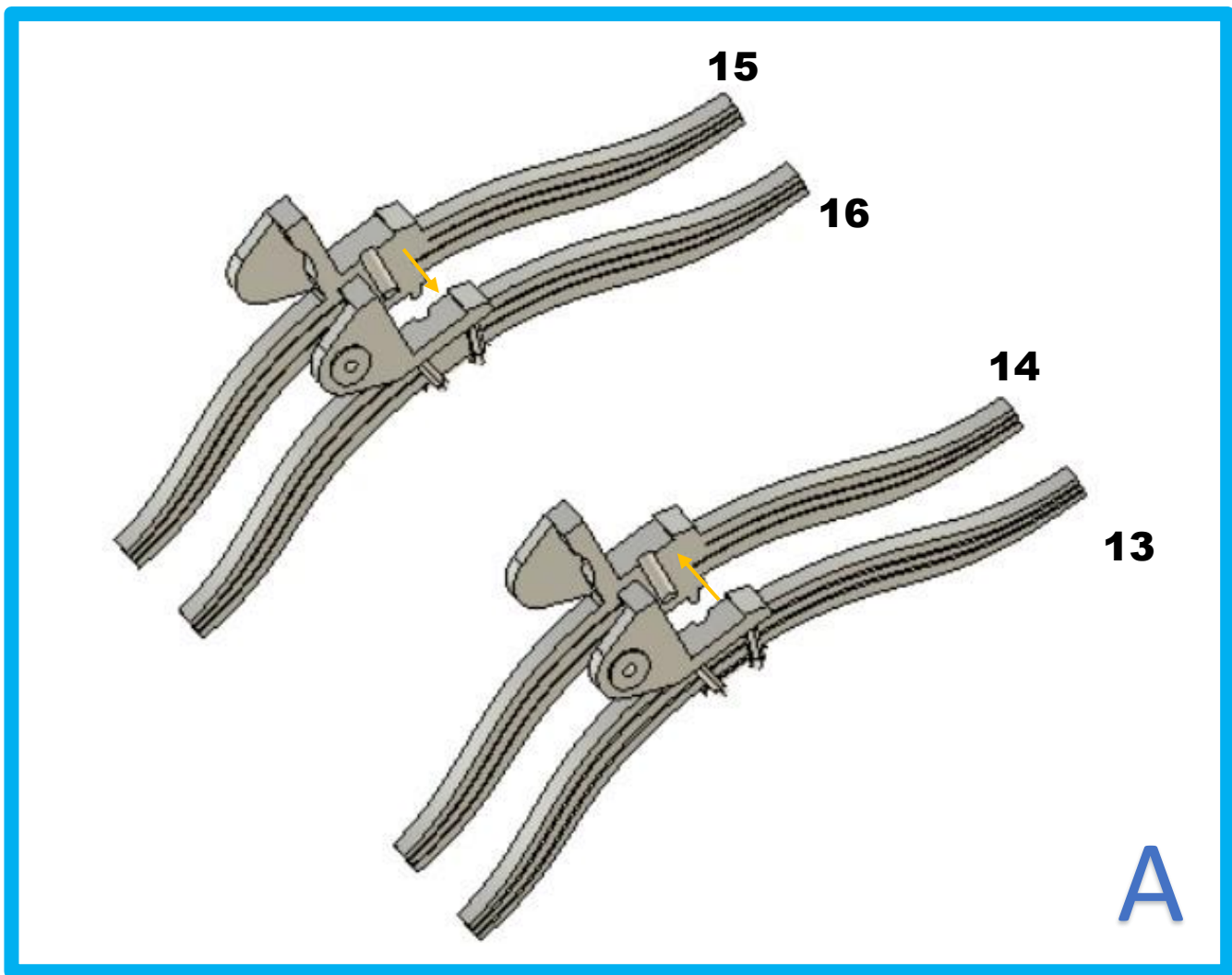
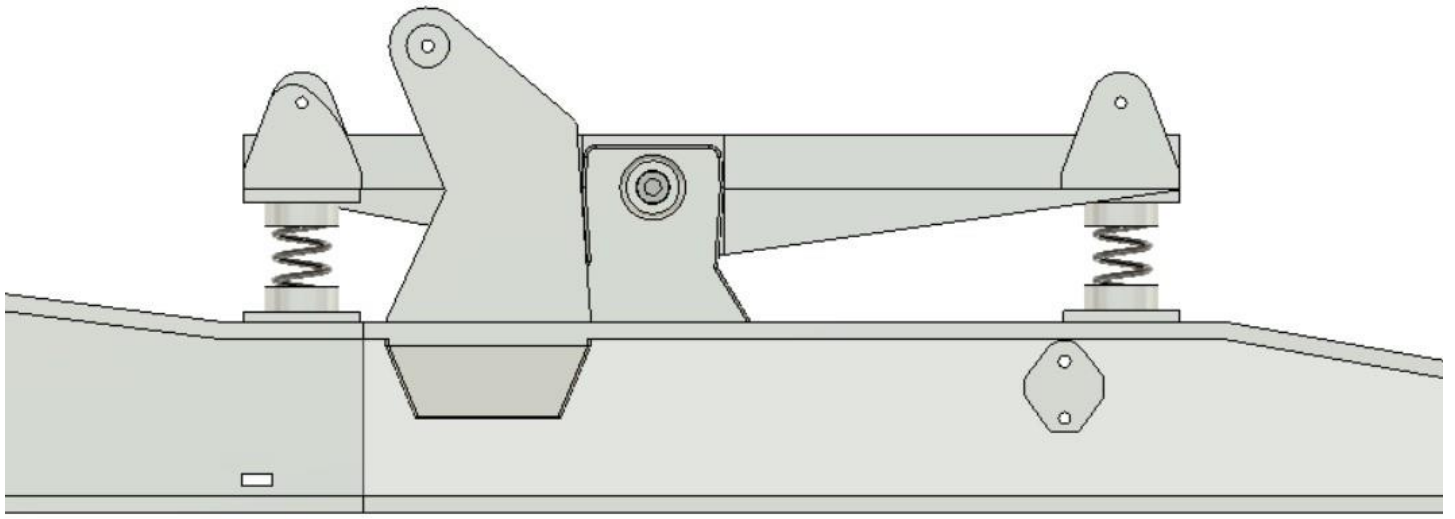


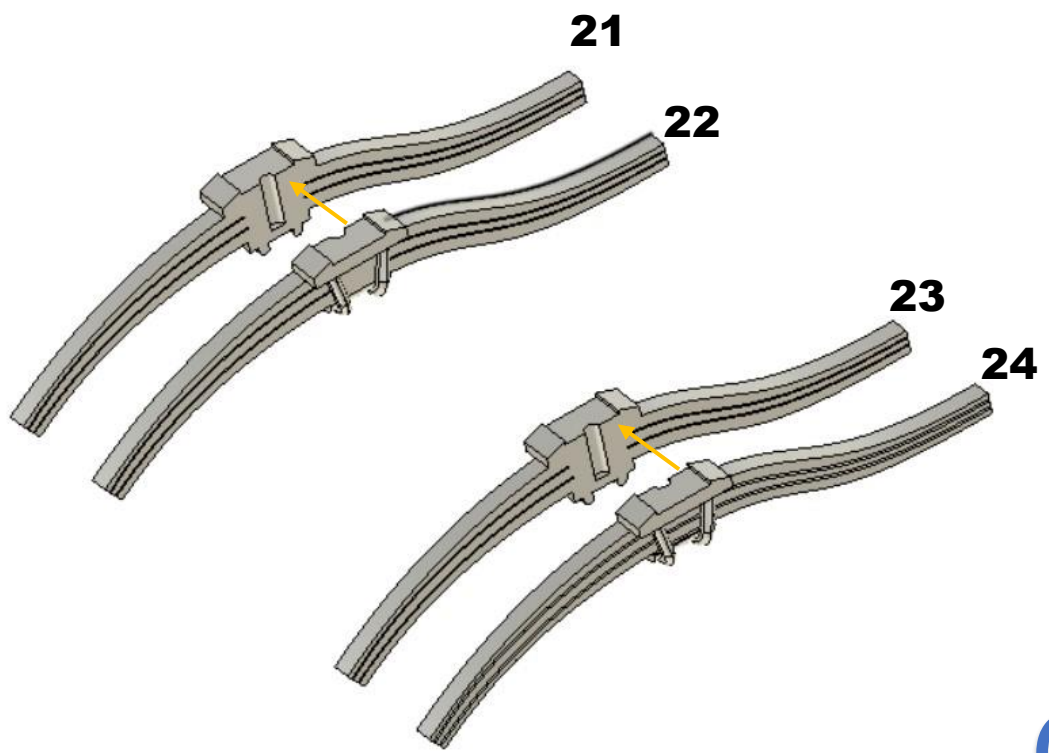
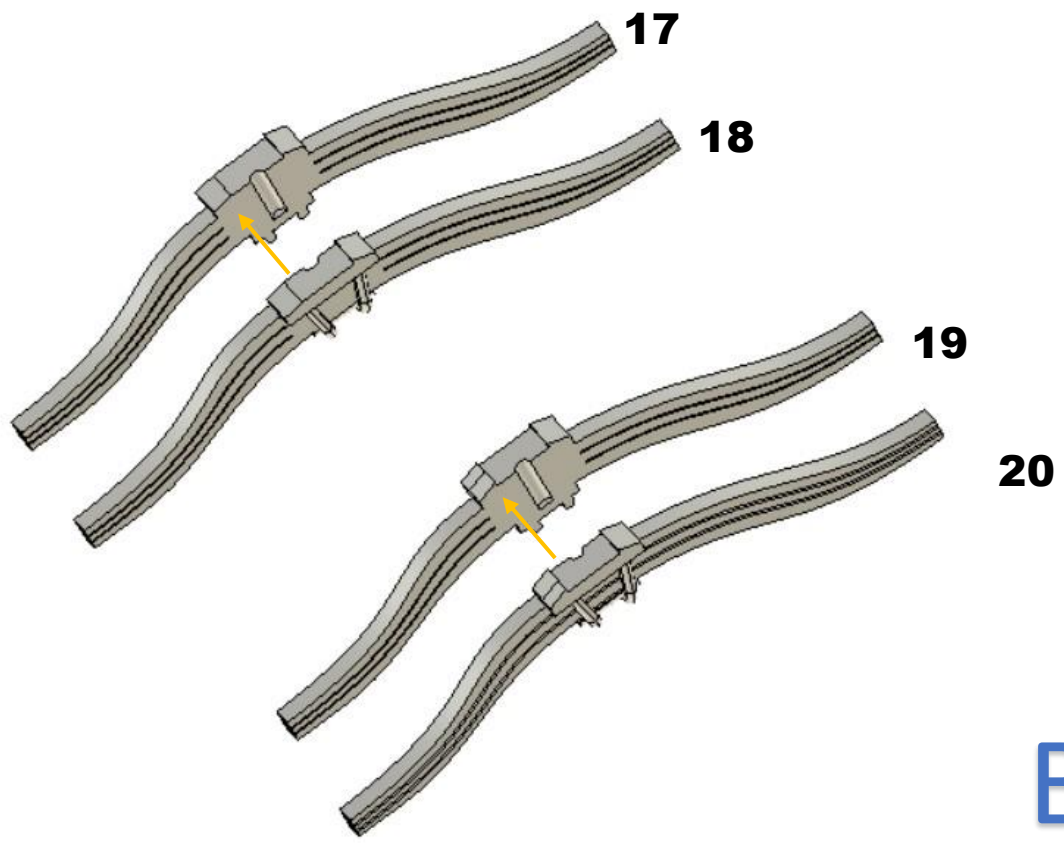


M3x10



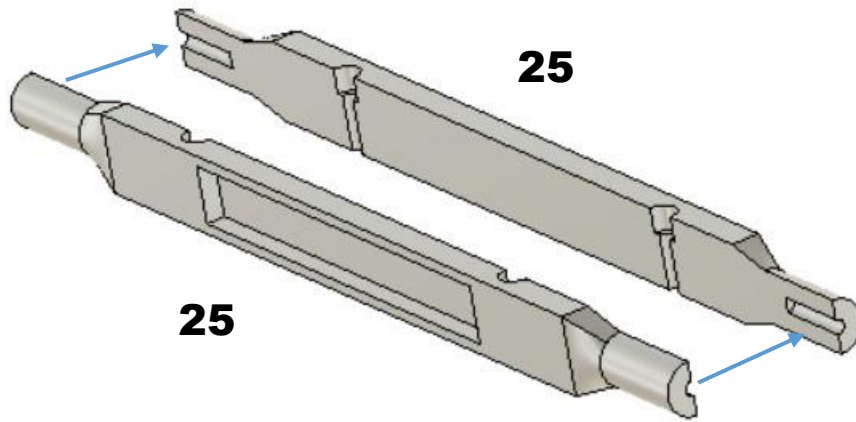
Spring 9x35mm



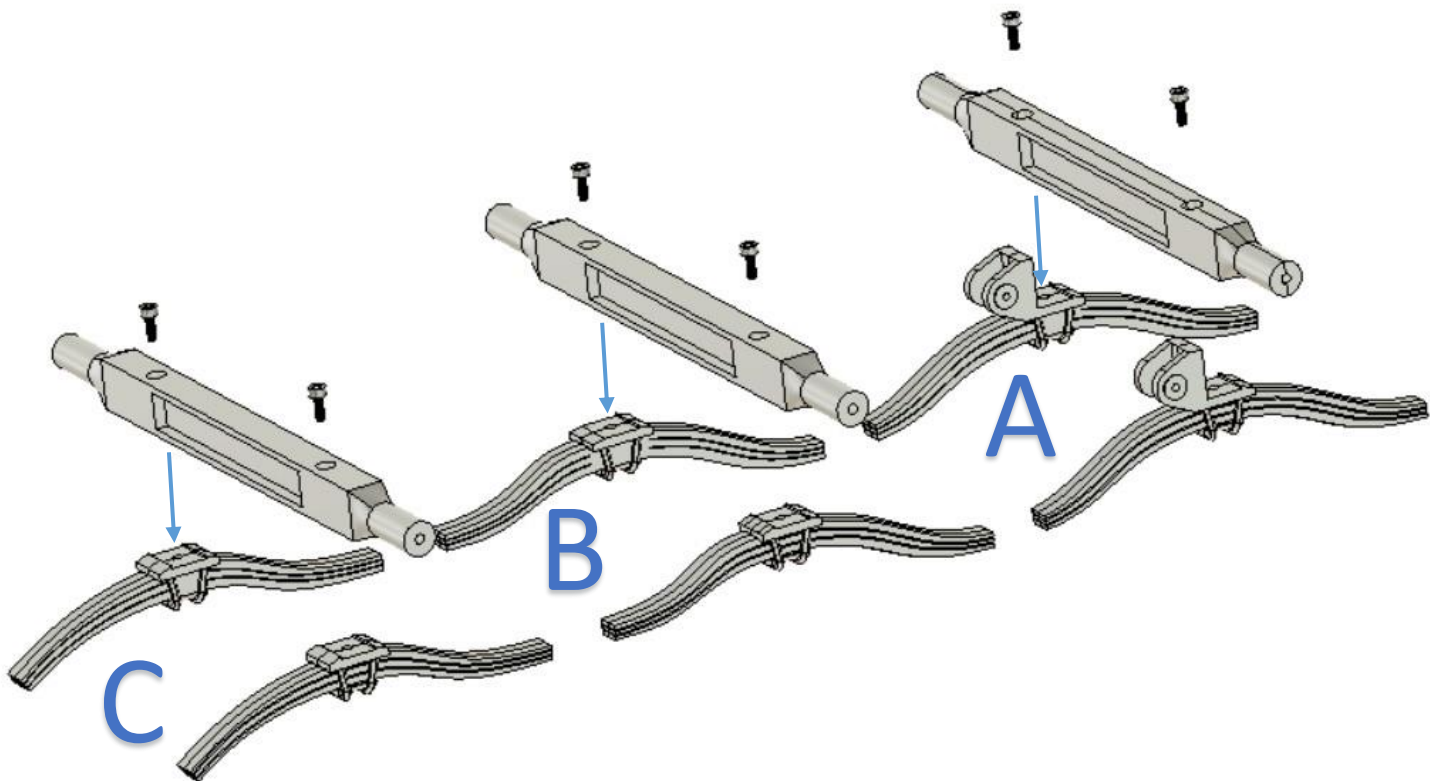


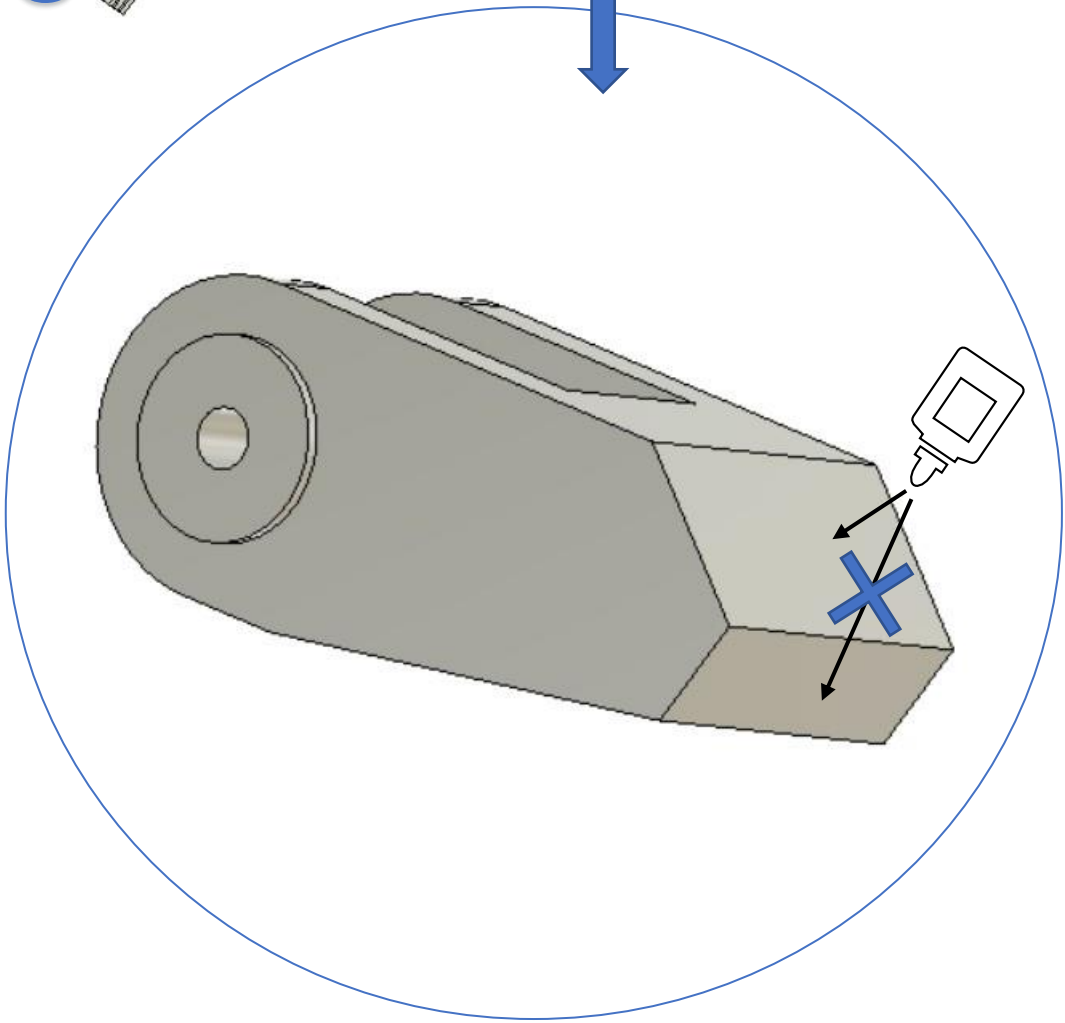
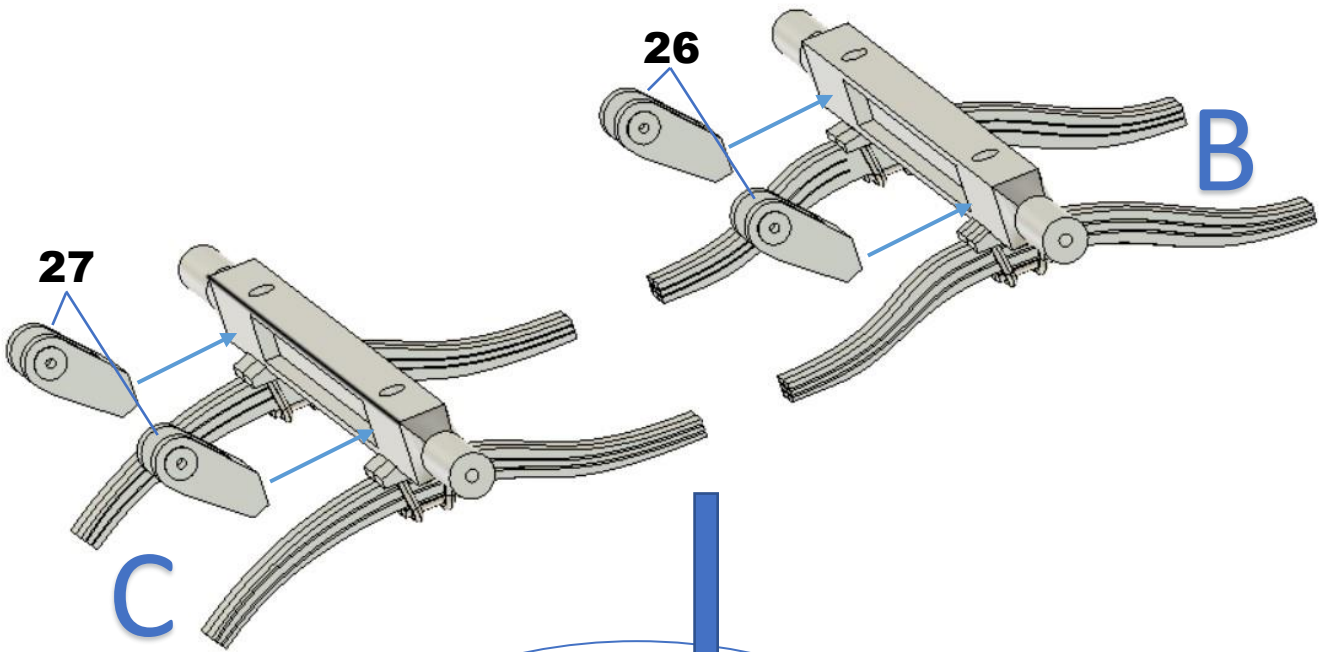


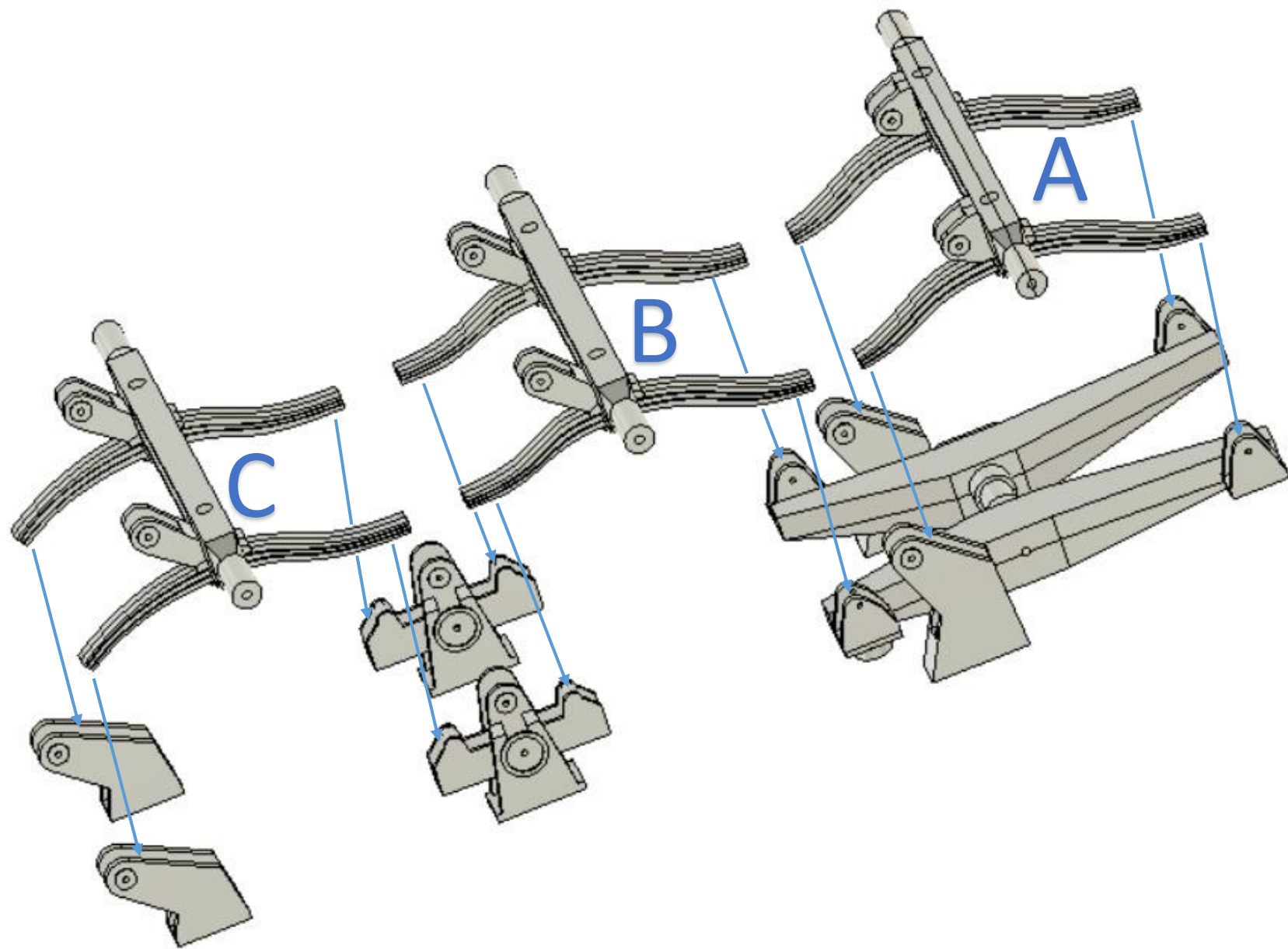
3x



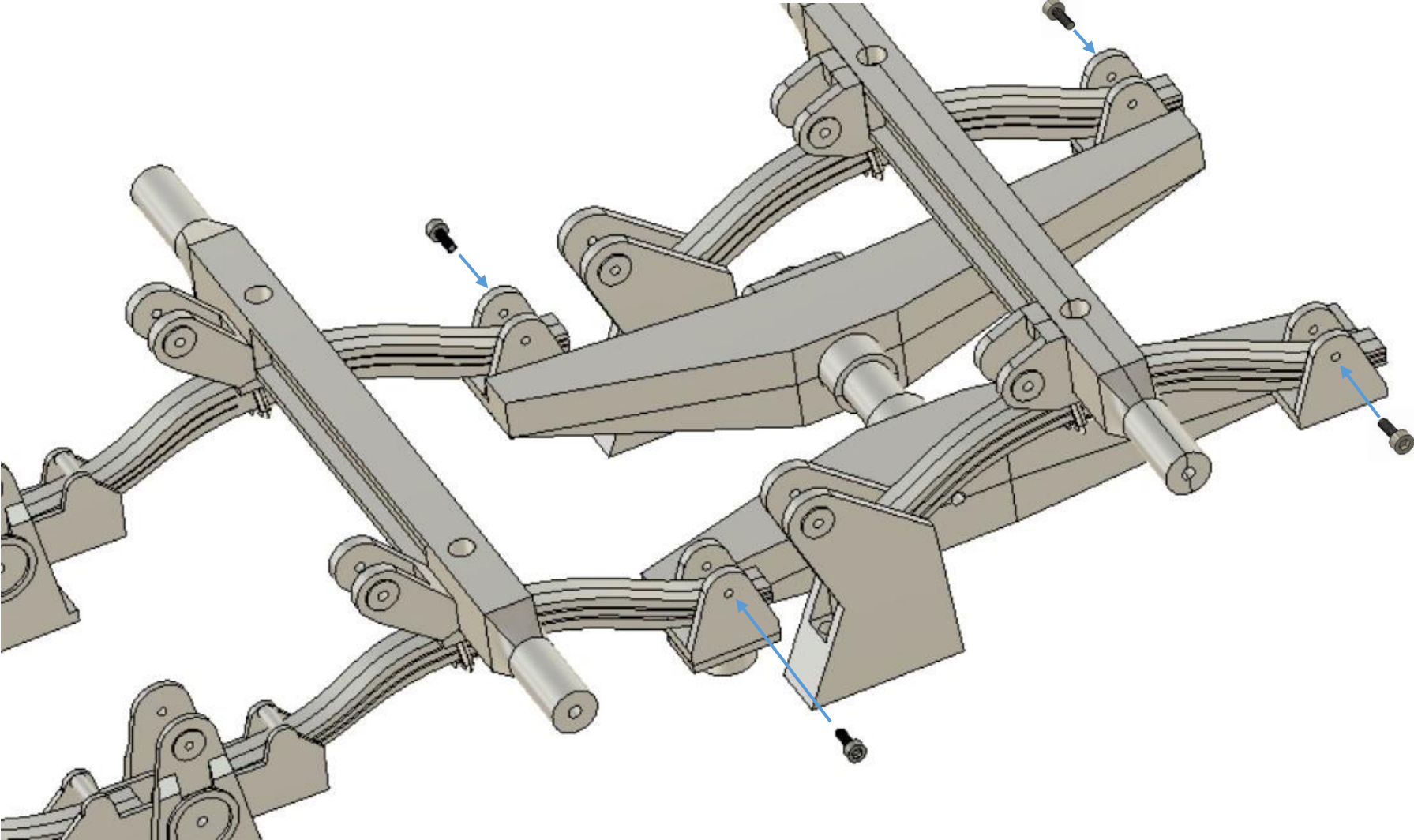
M3x16

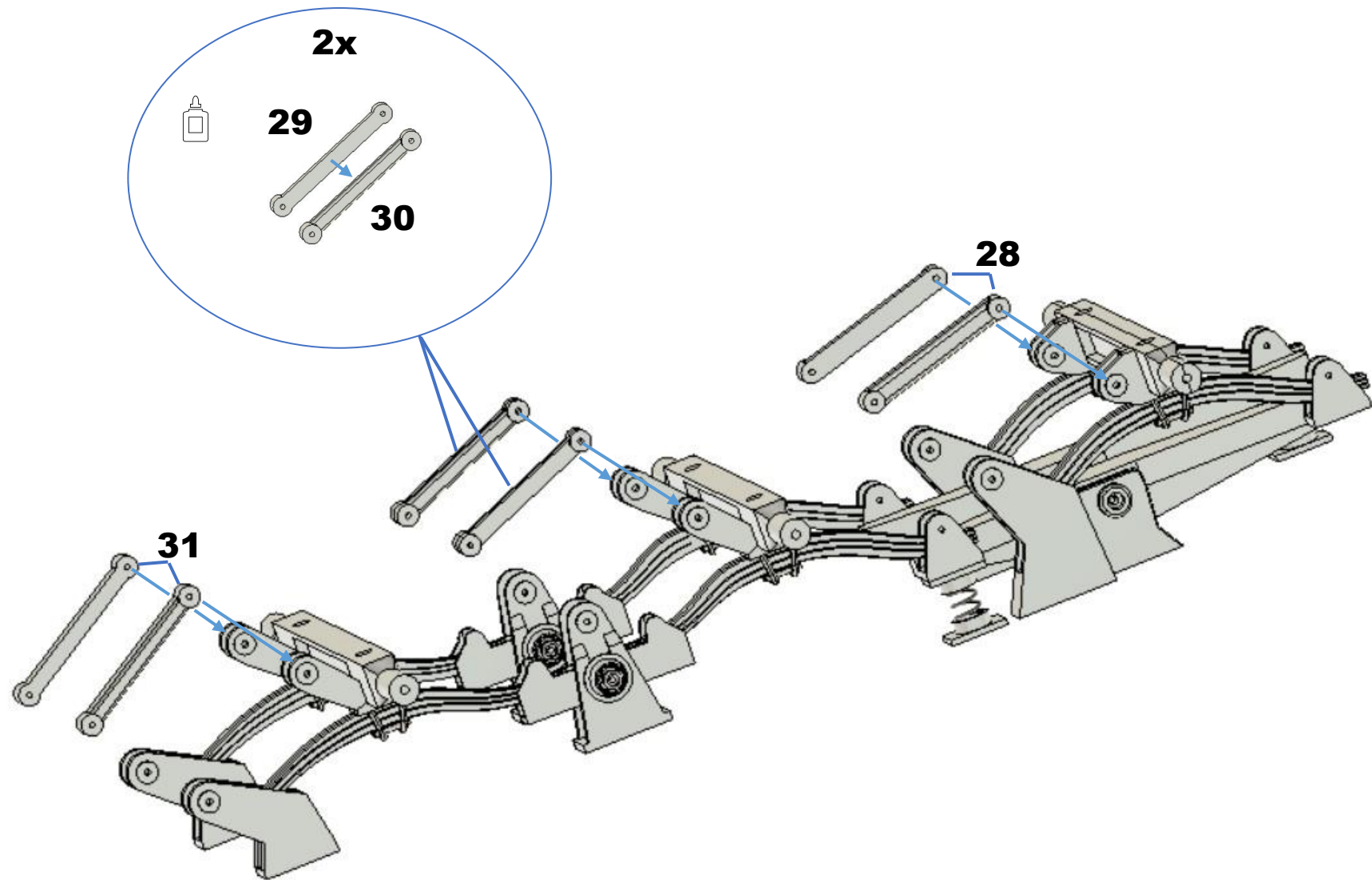




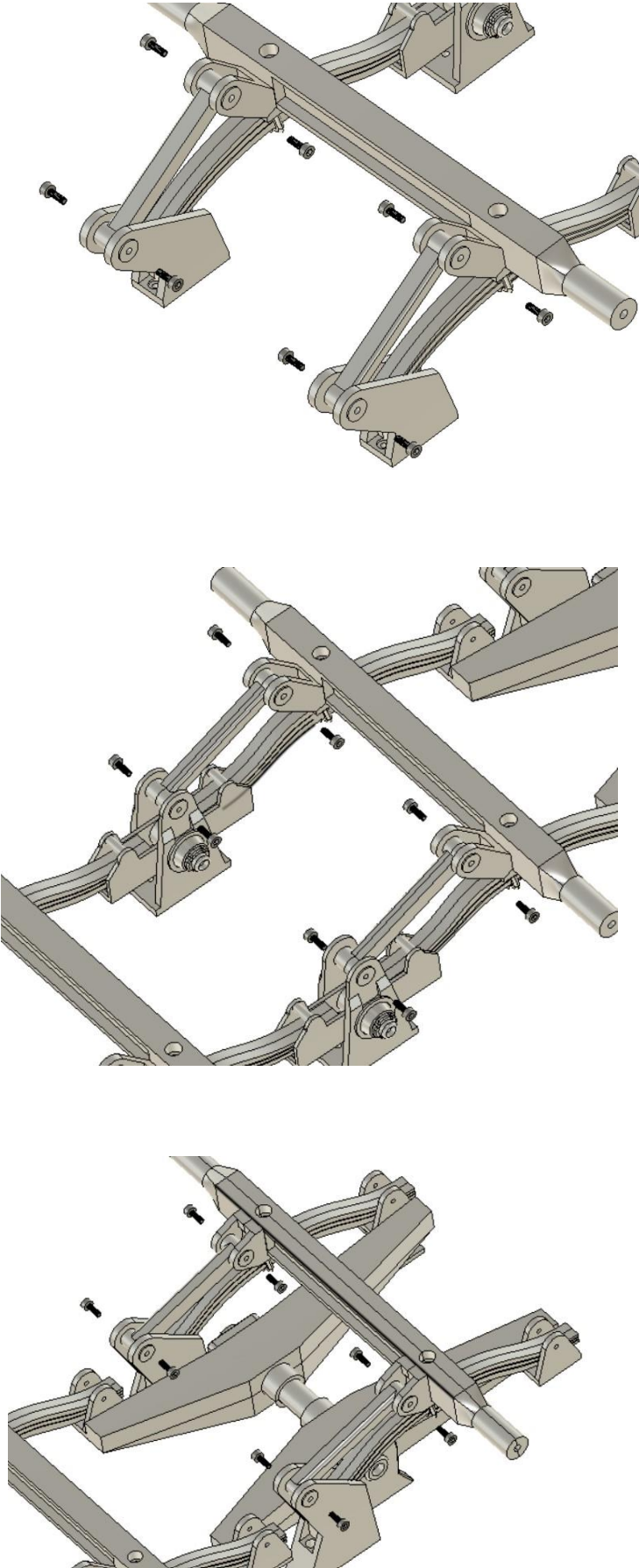


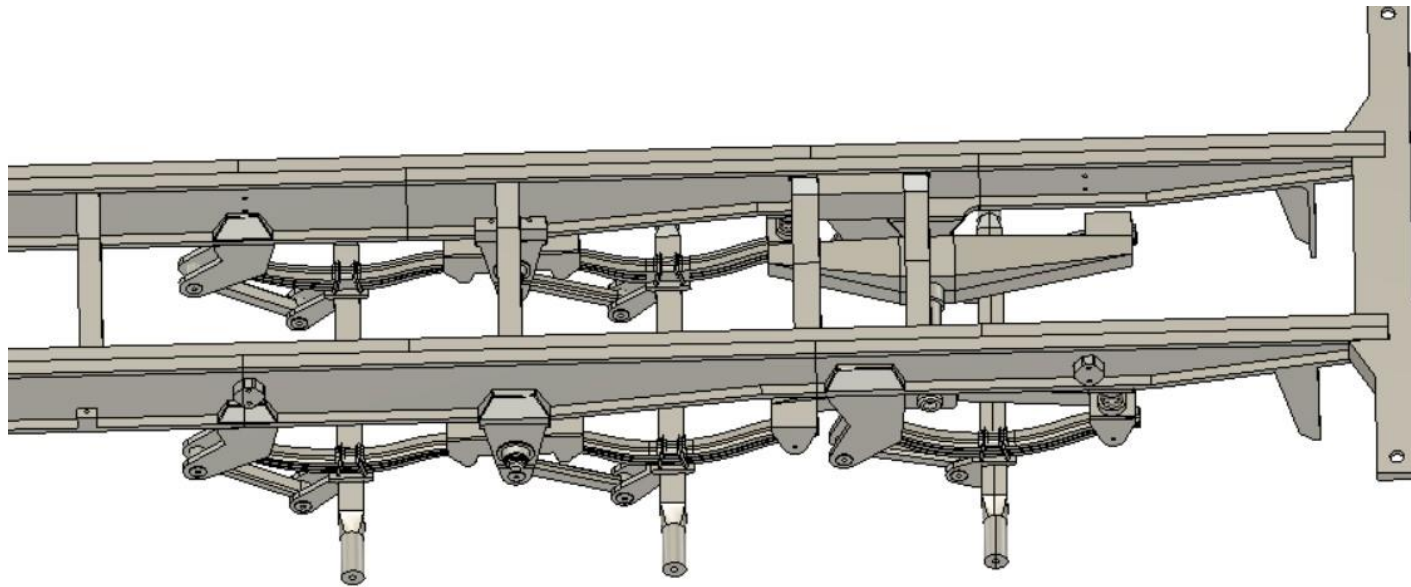
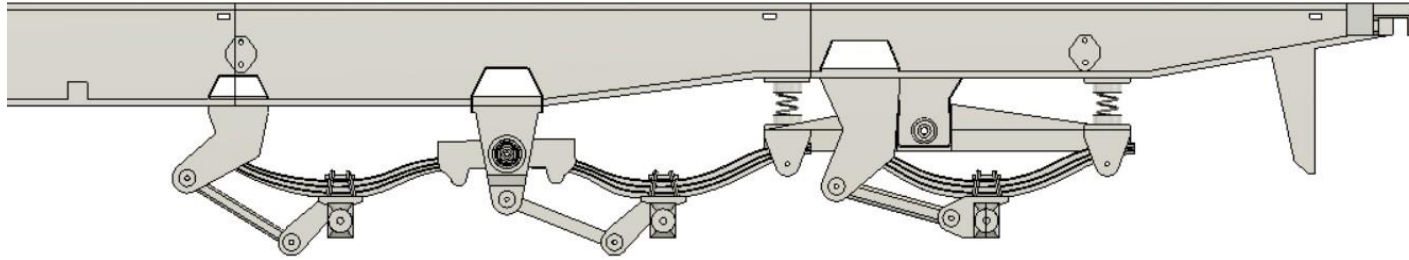
M2x16





M2x6 Tighten the screws only lightly, the parts must move freely.



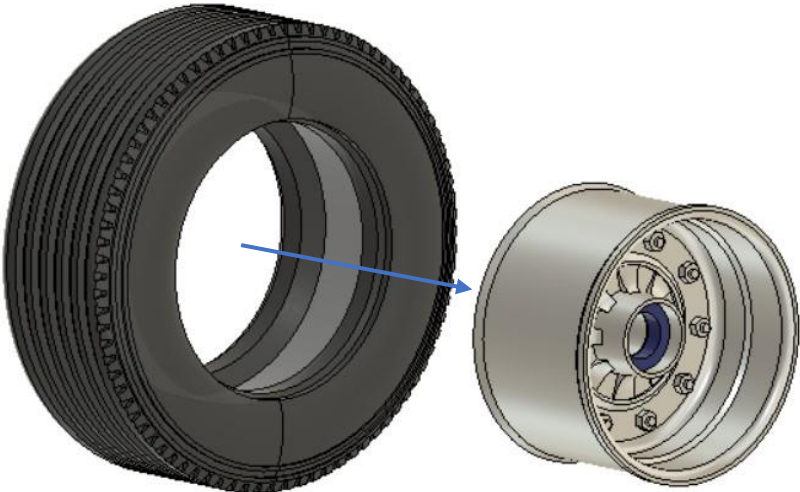
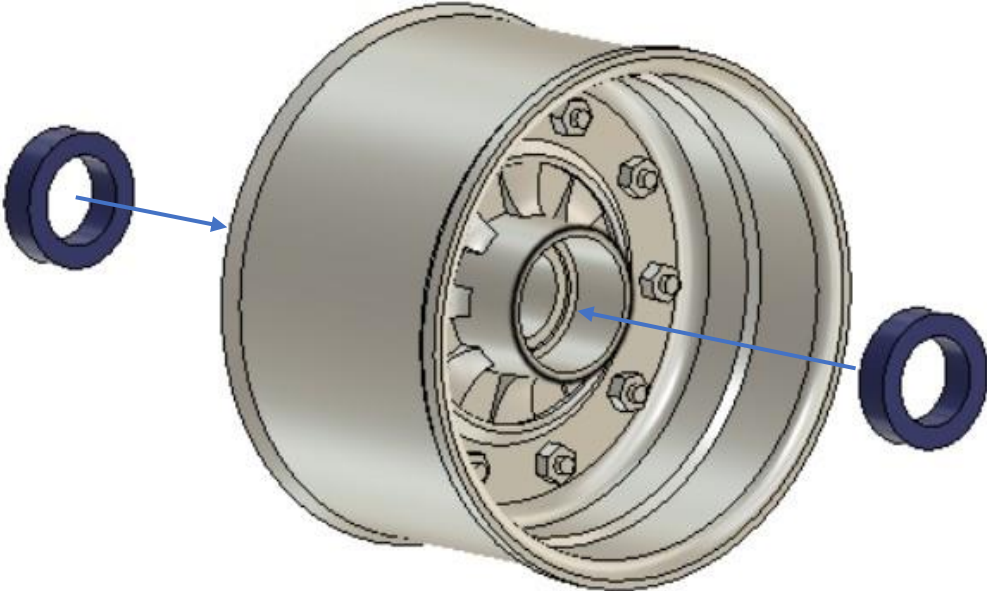


Wheels

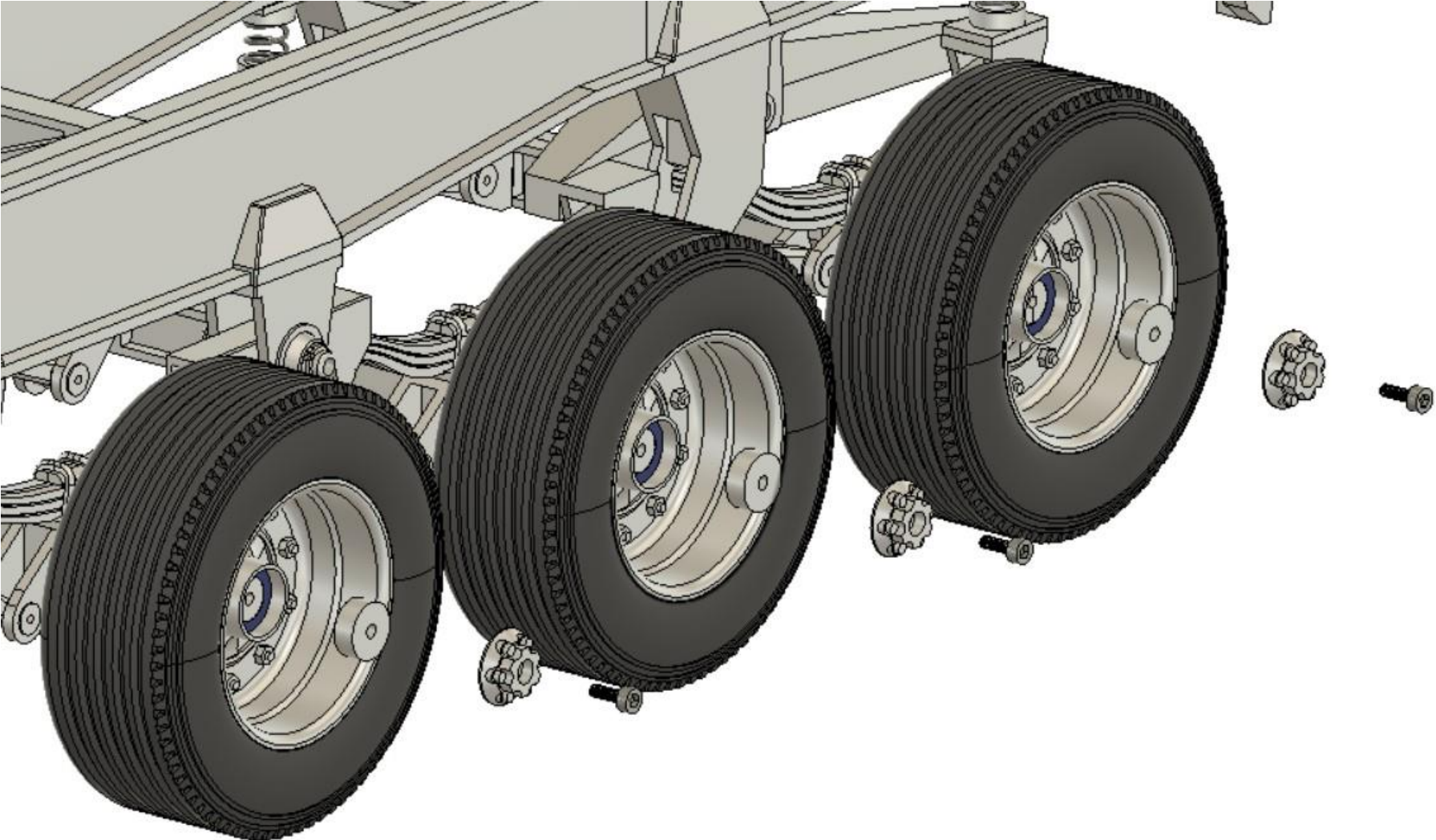
6x

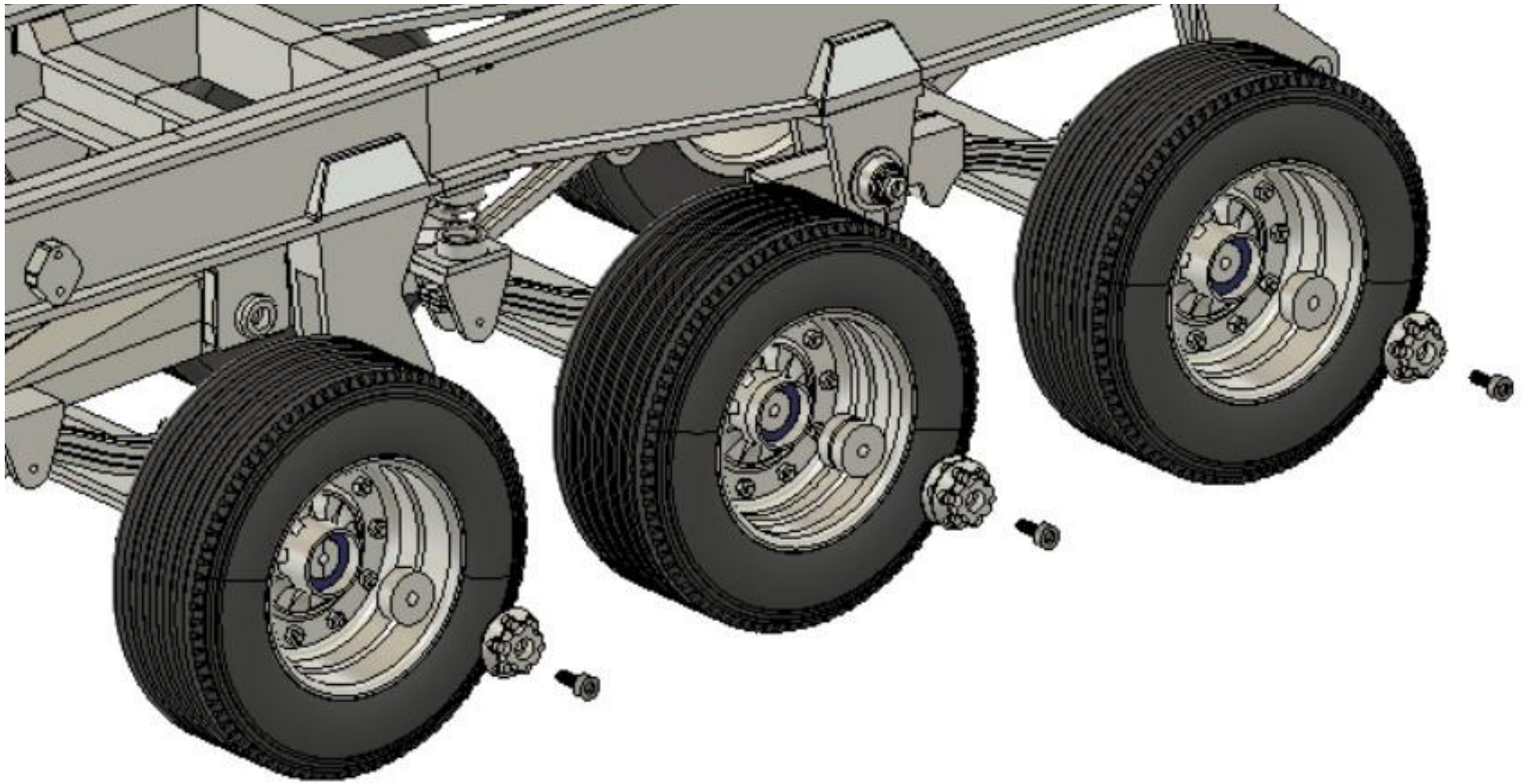


Bearings 10x15x4



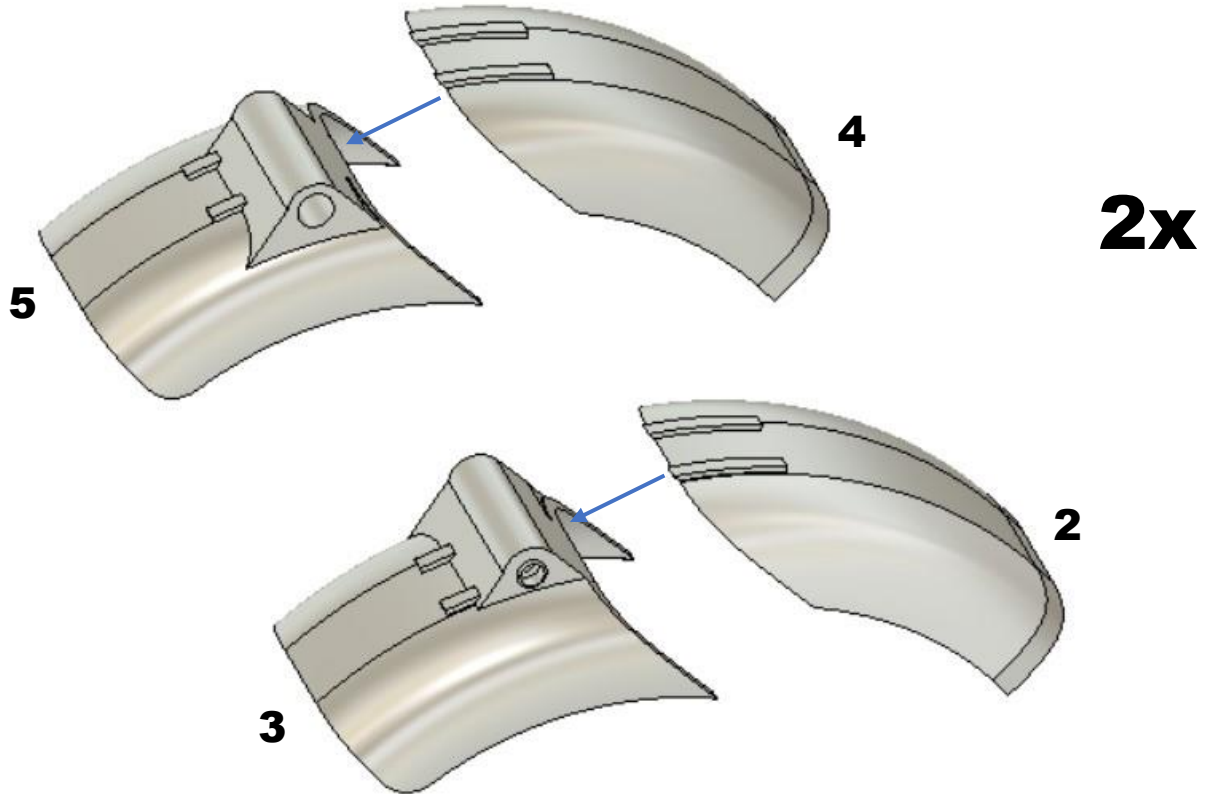
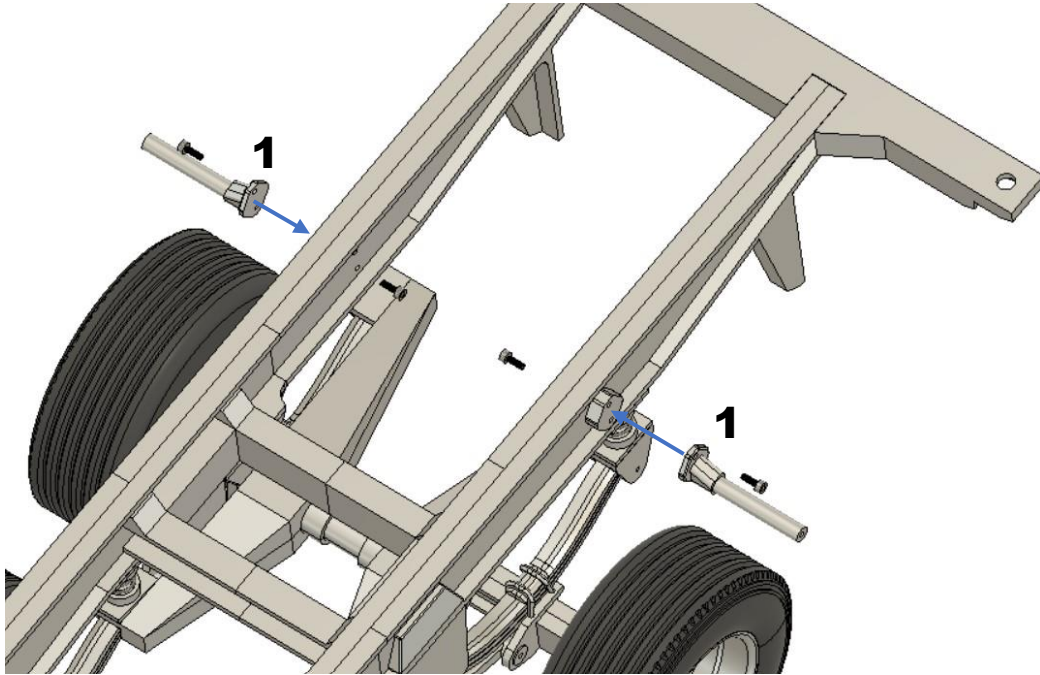
M3x10



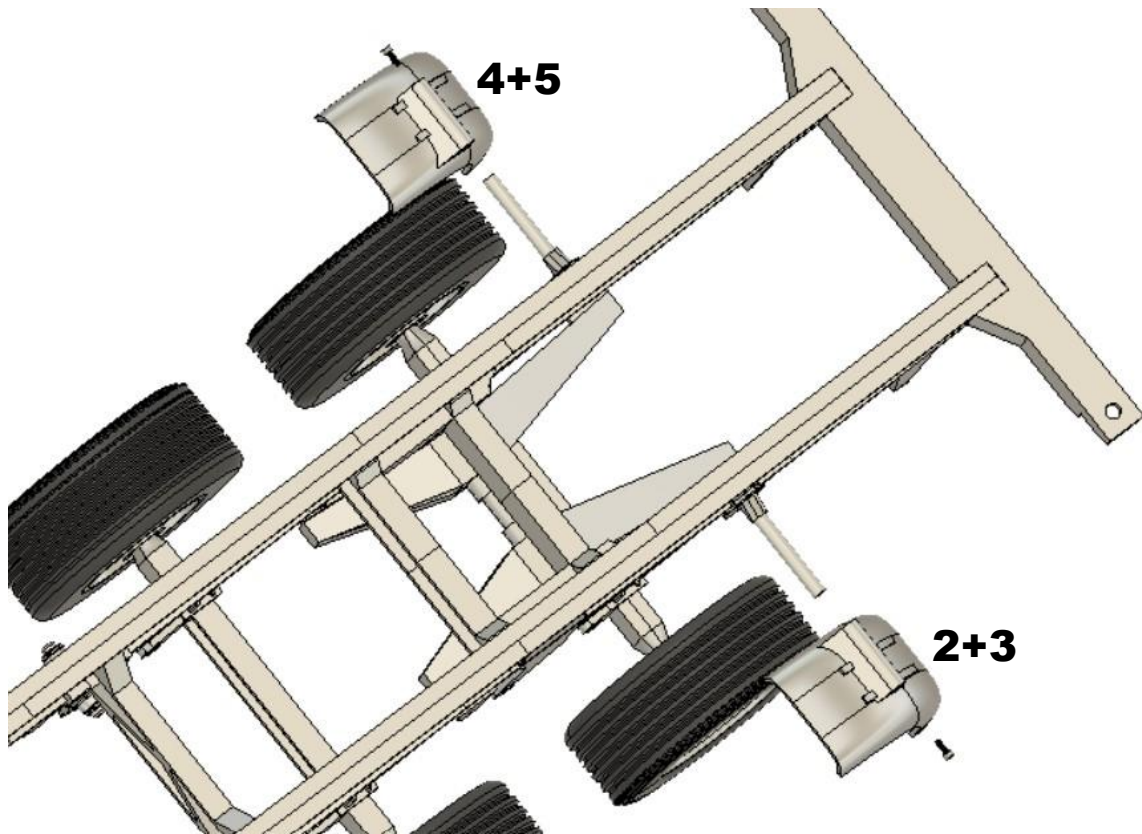


Fenders

M2x6
M2x10

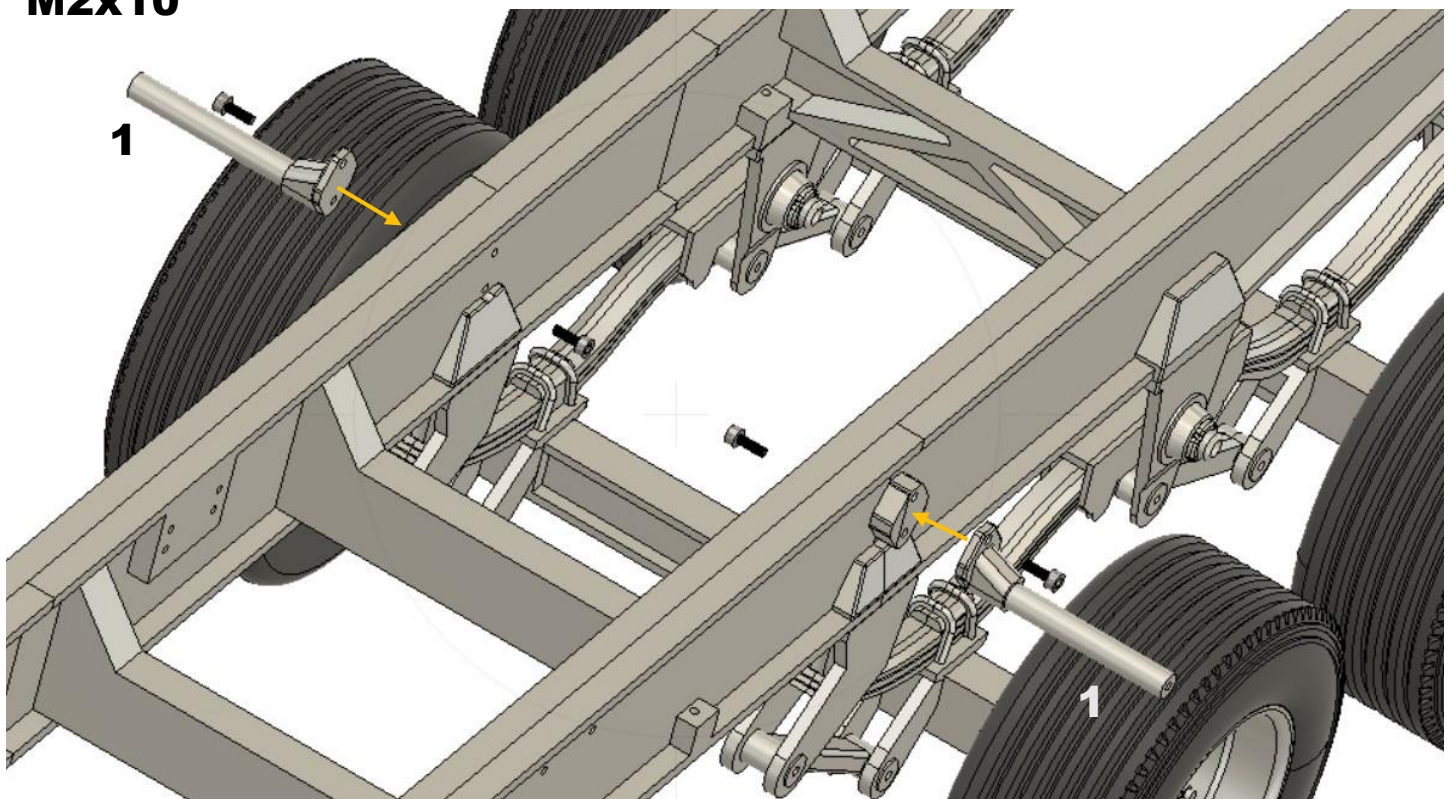


M2x10

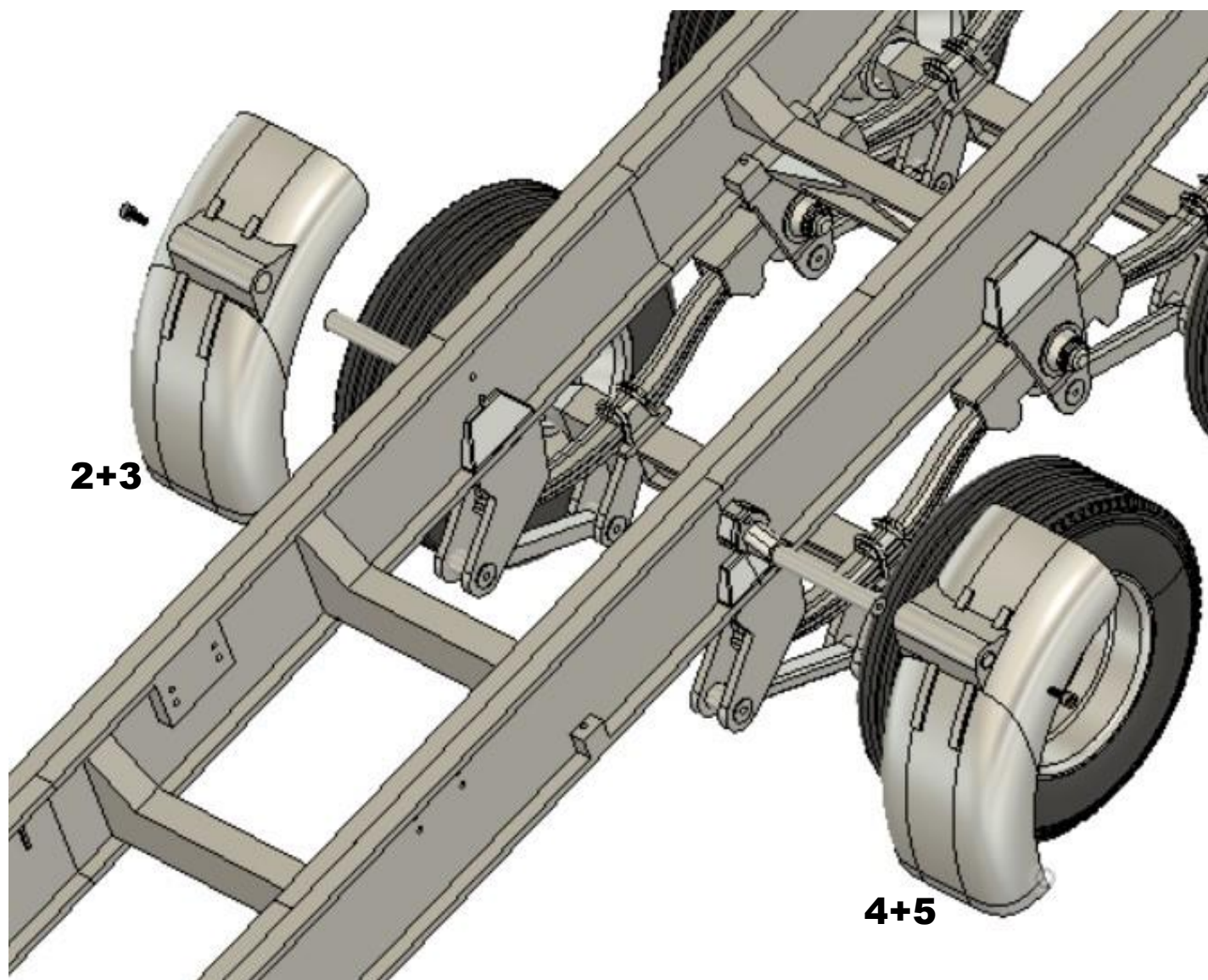


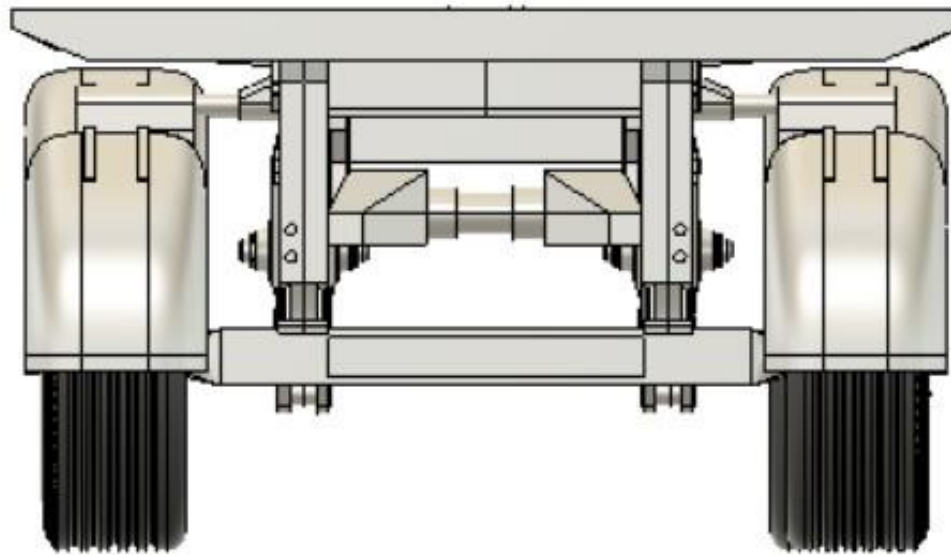
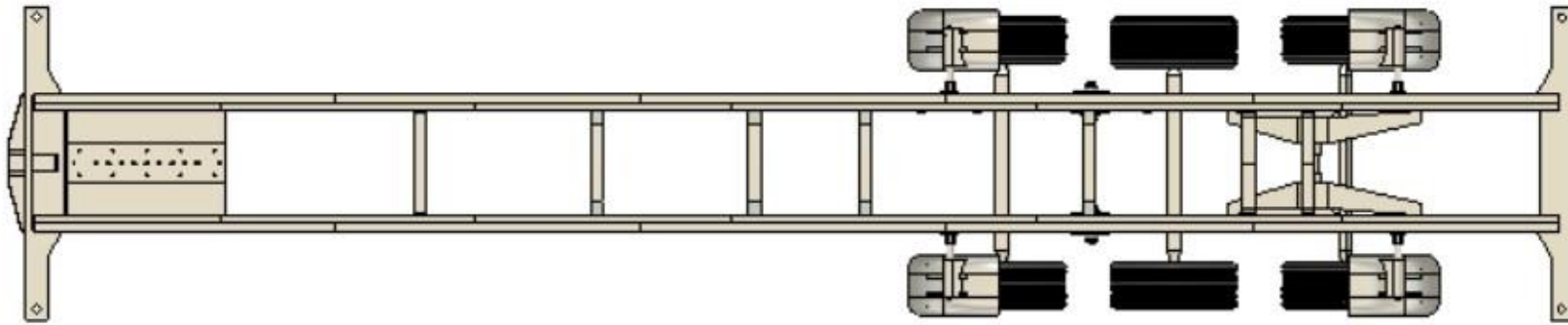
M2x6

M2x10



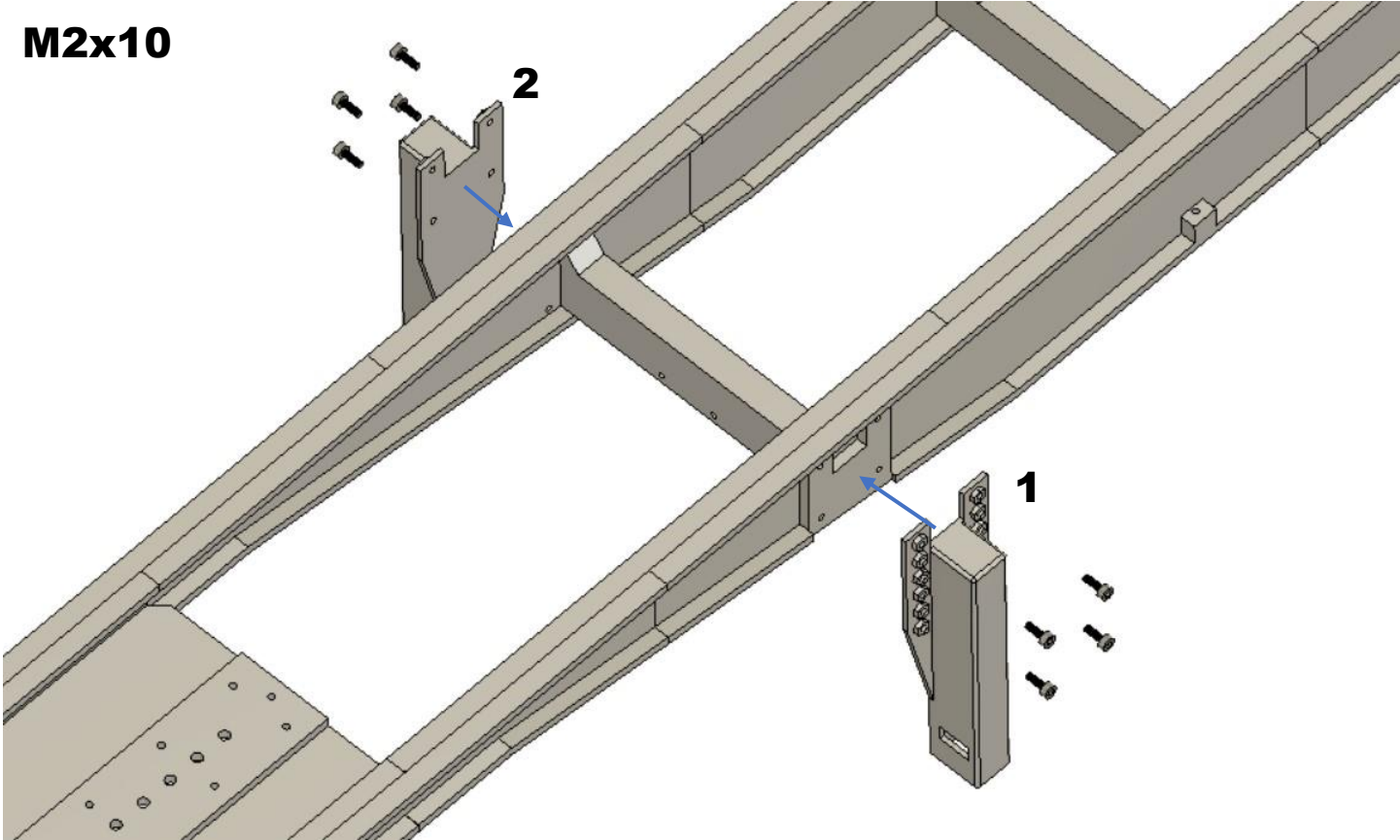
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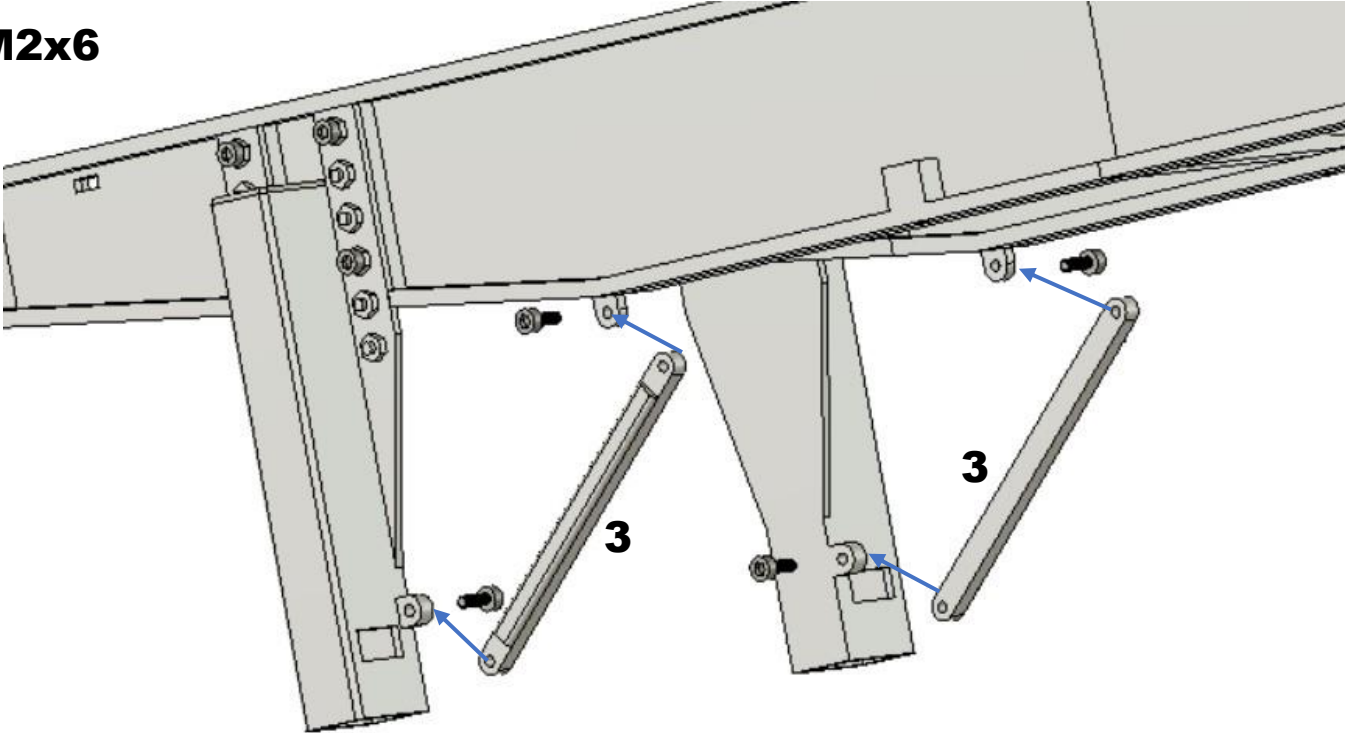


Feet

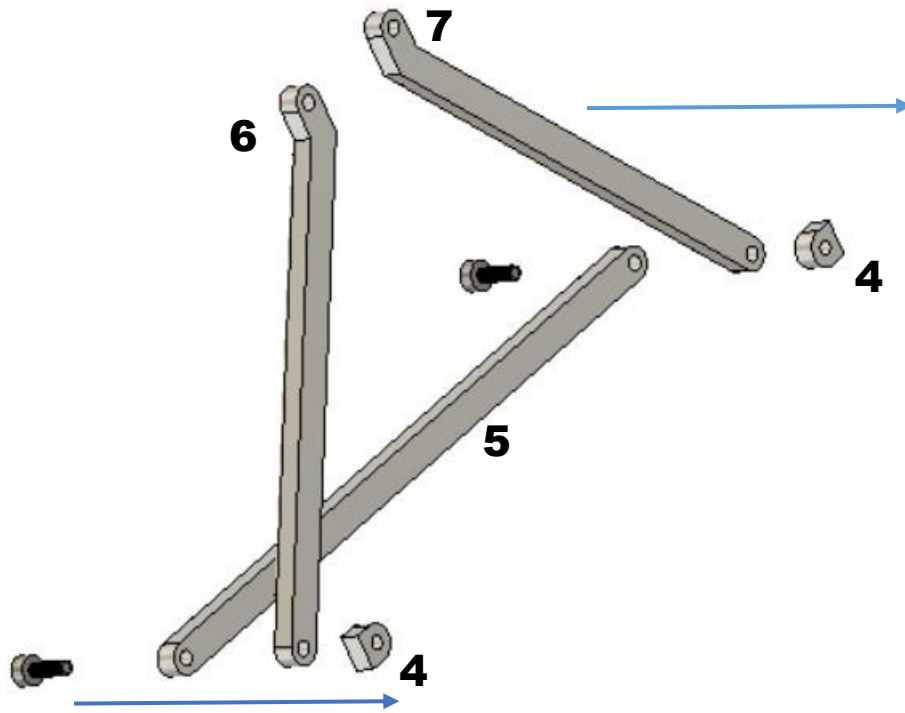
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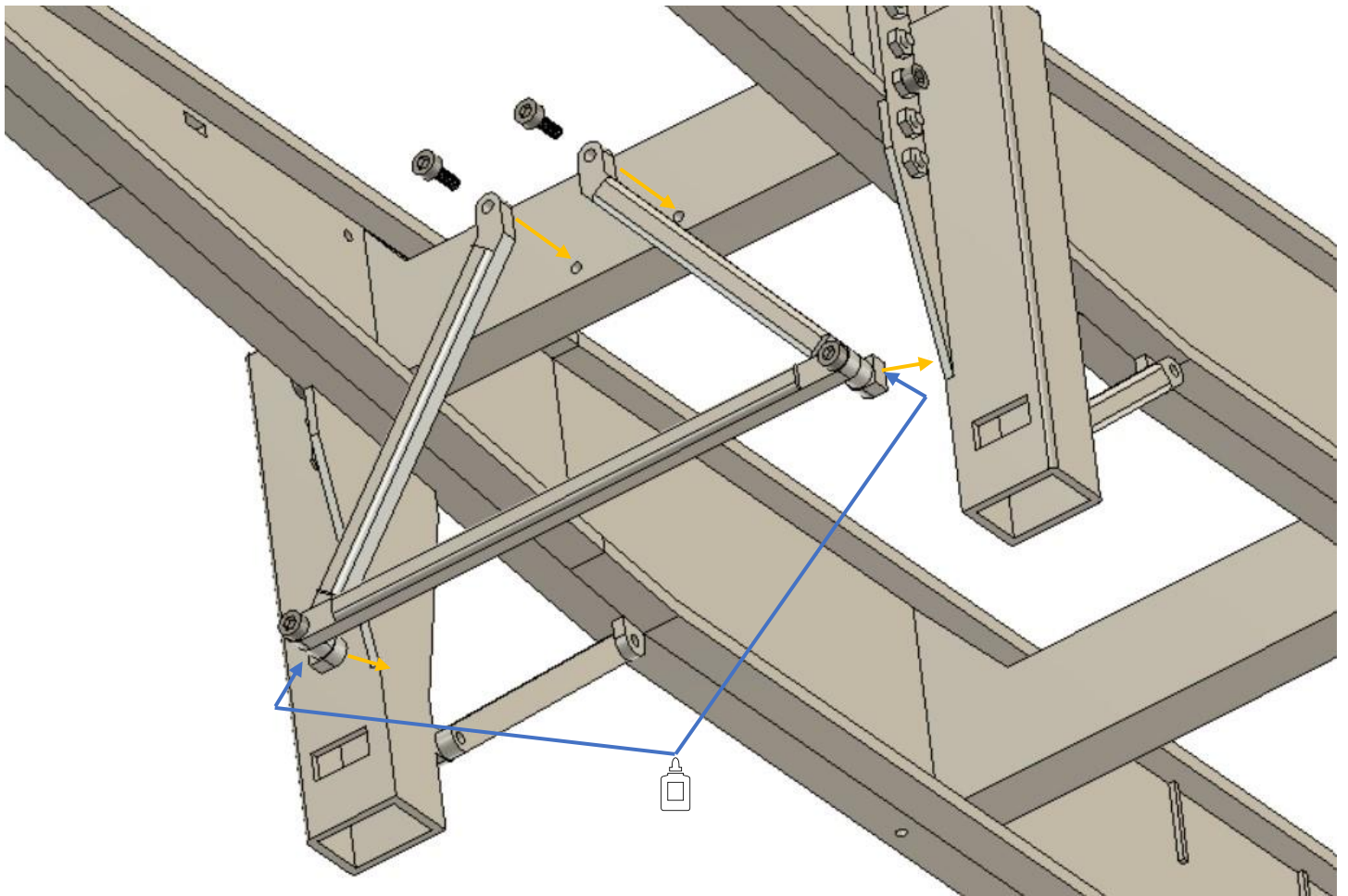
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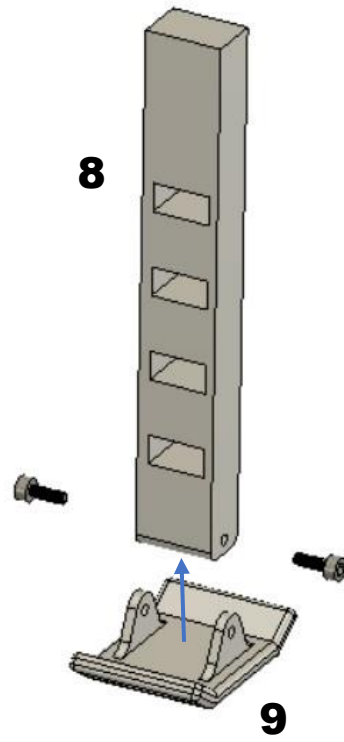
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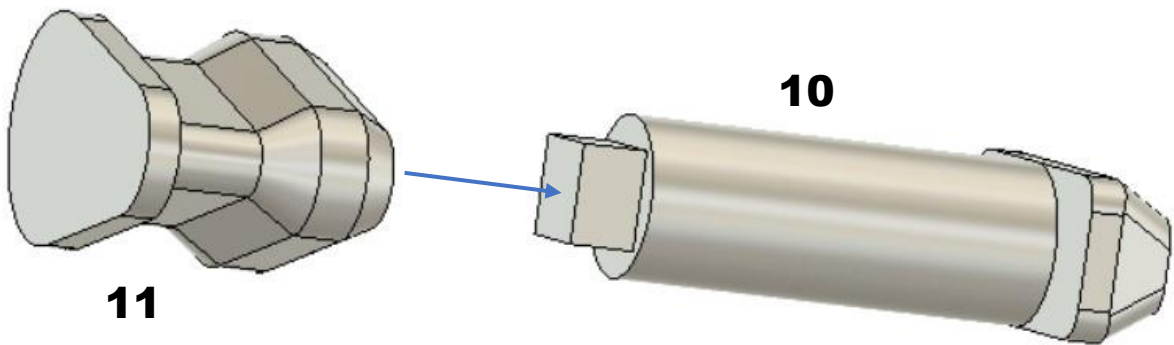
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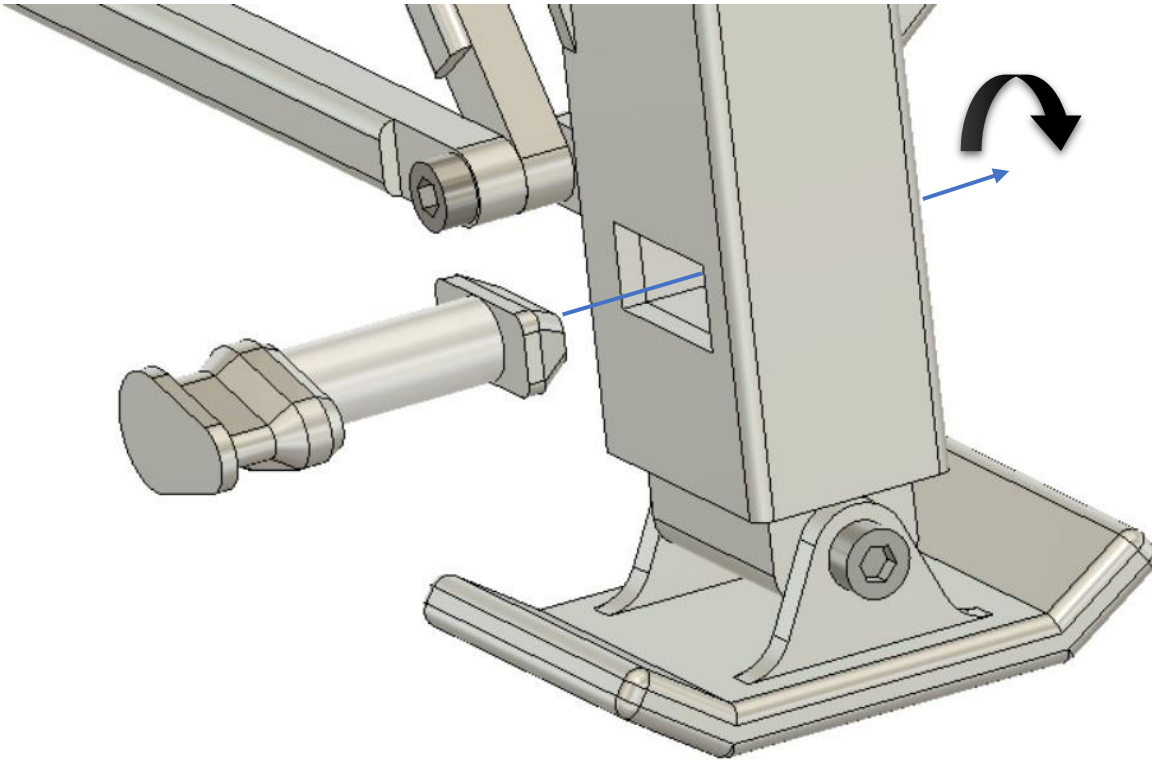
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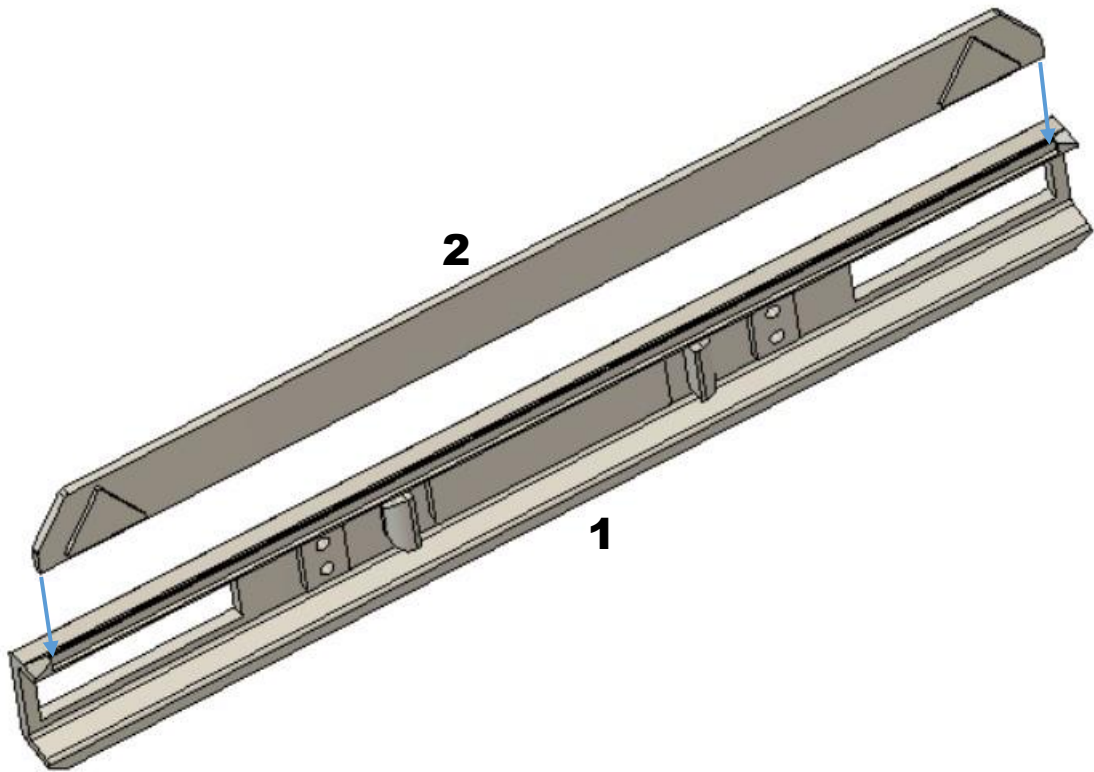
2x



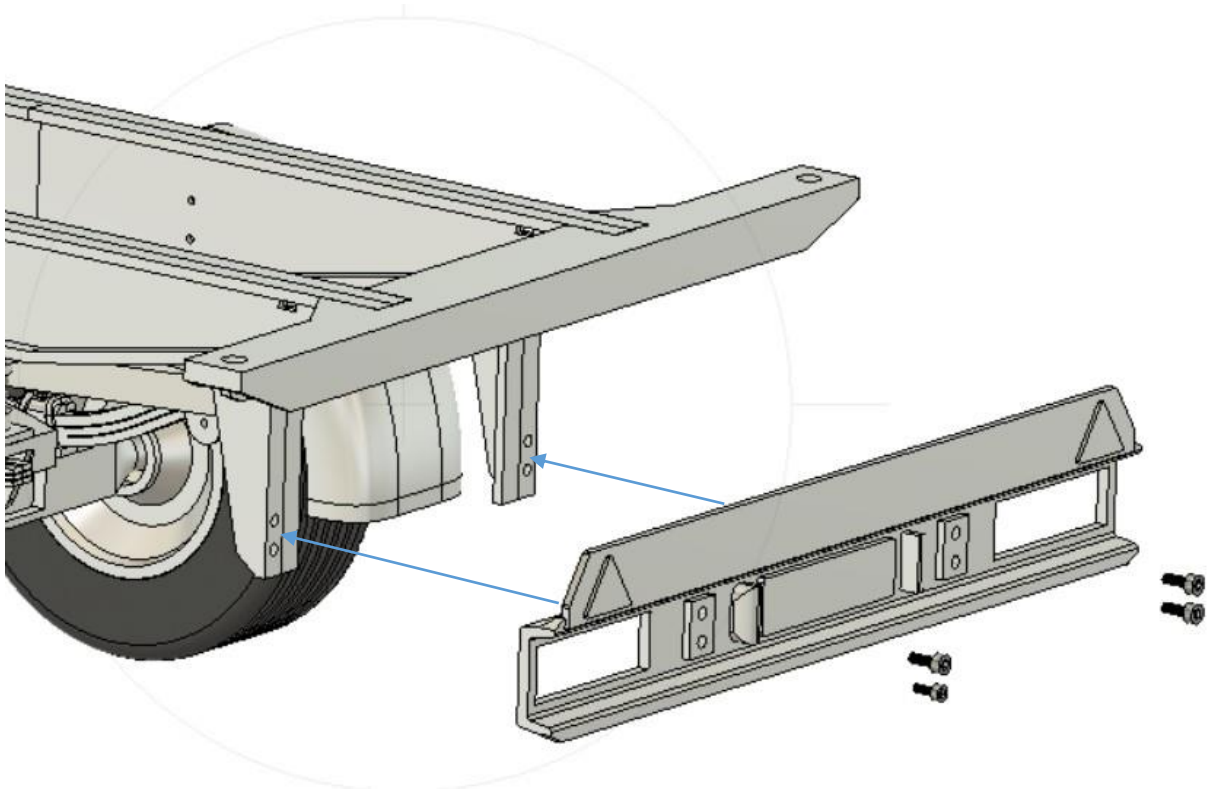
2x

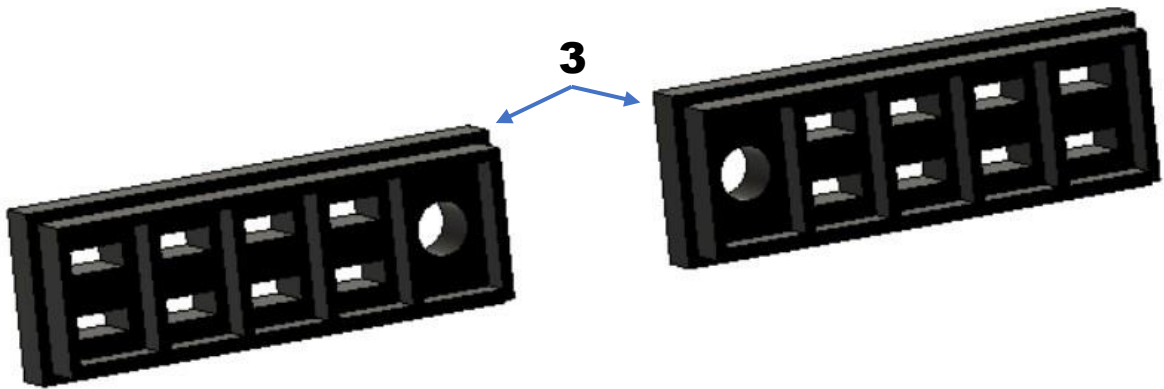


Bumper

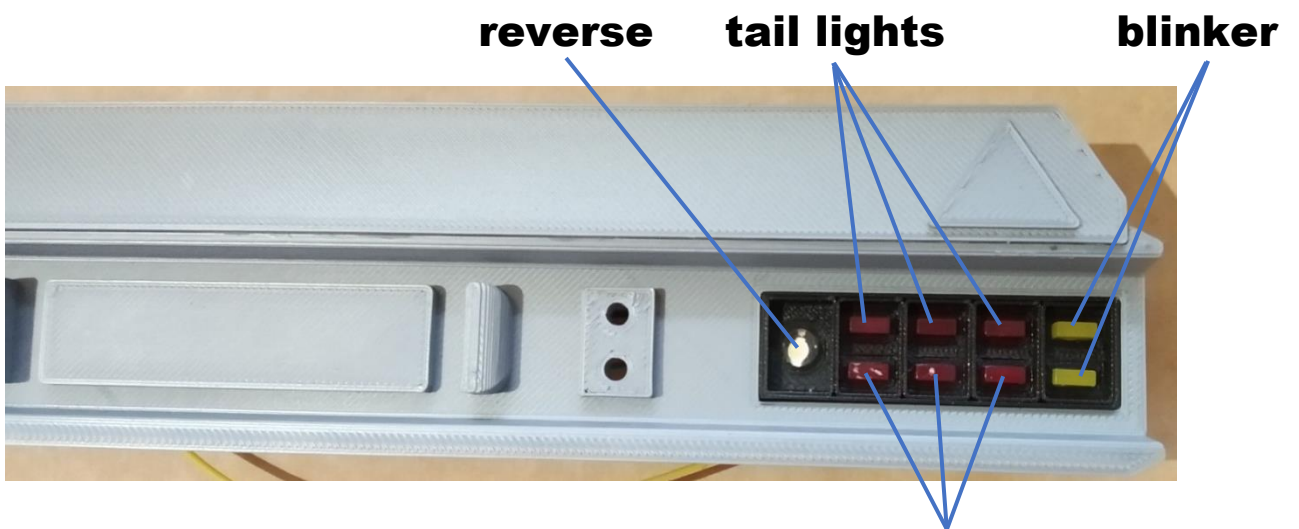


M3x10



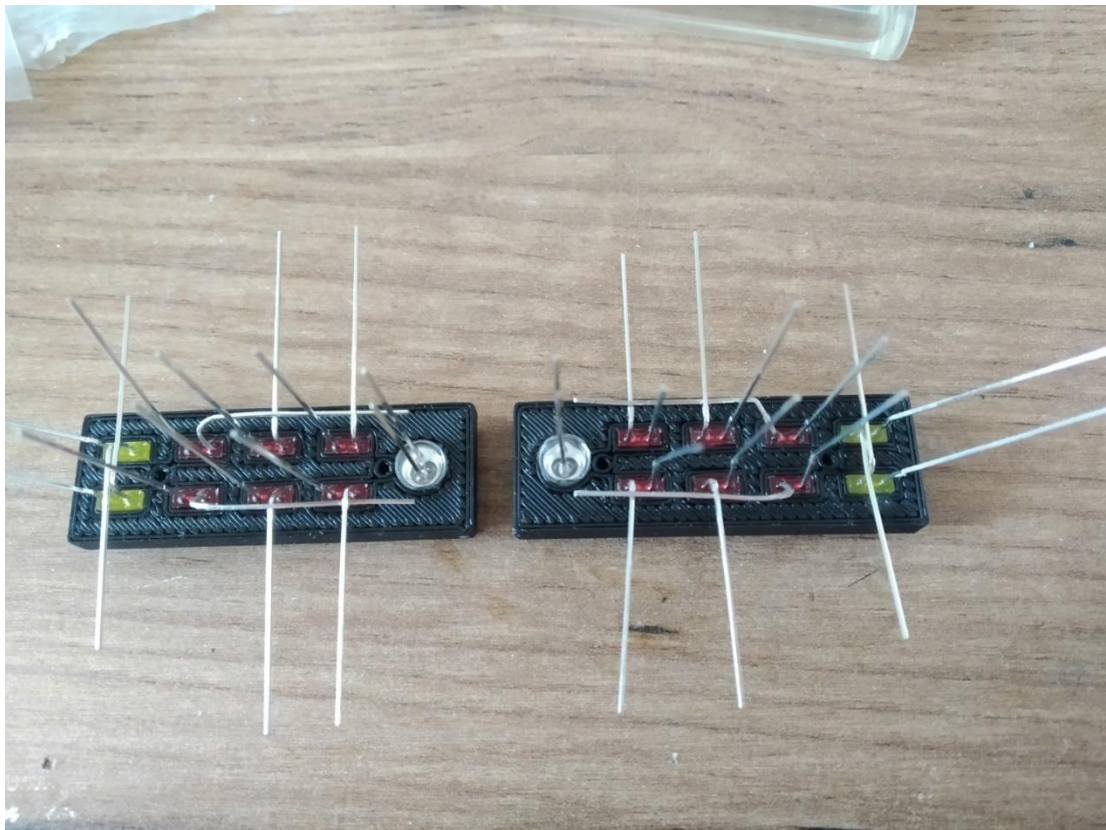
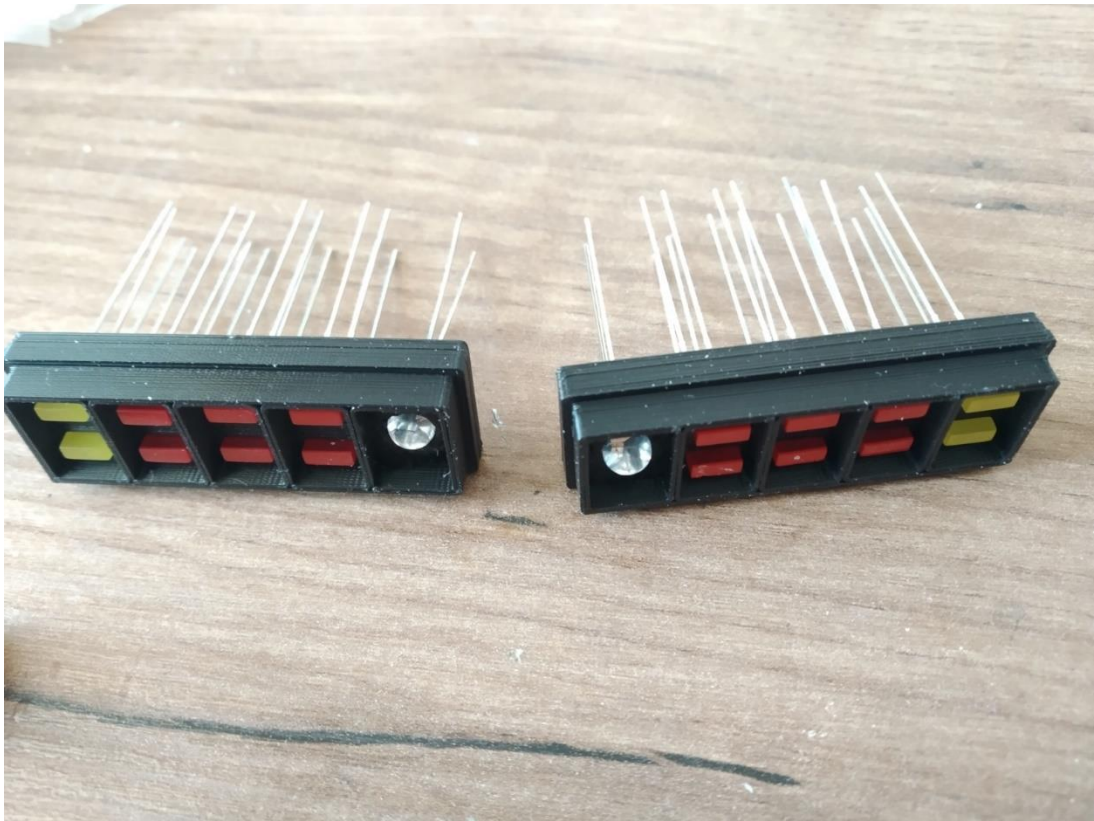


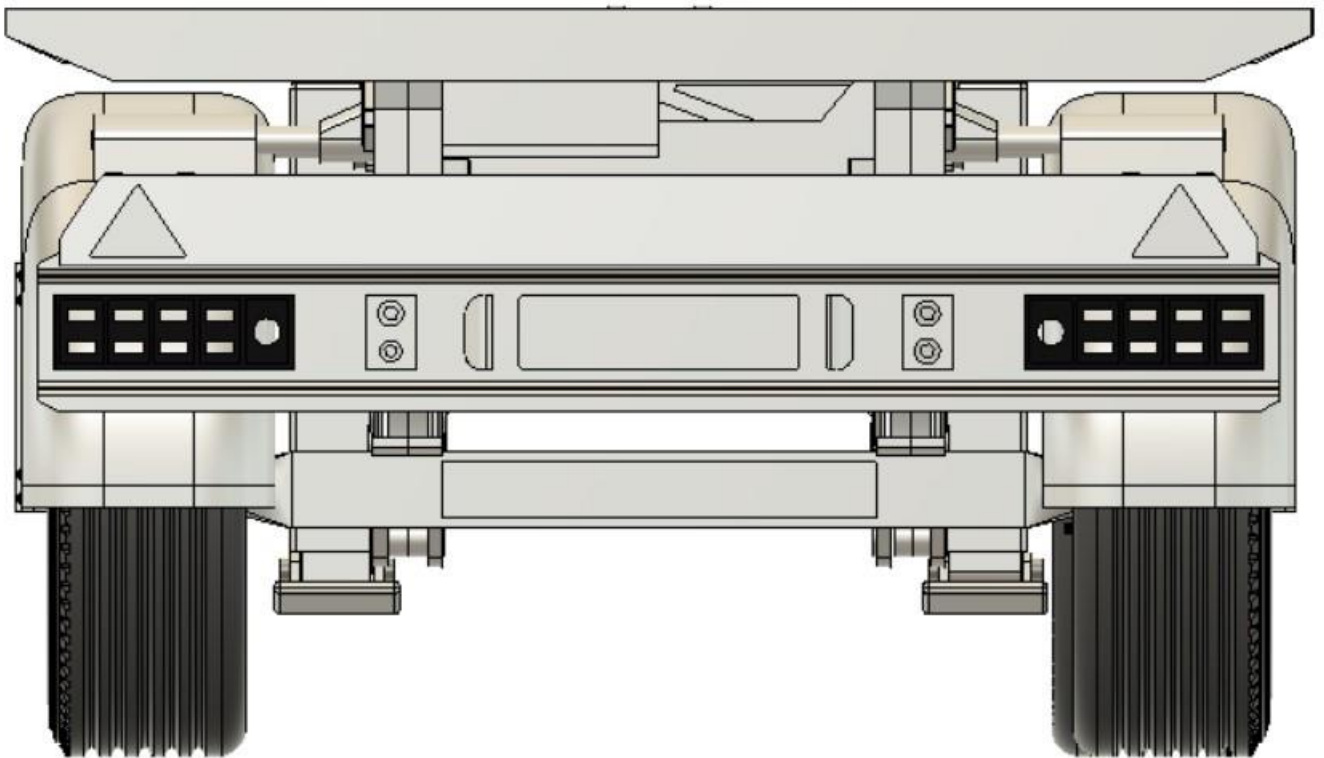
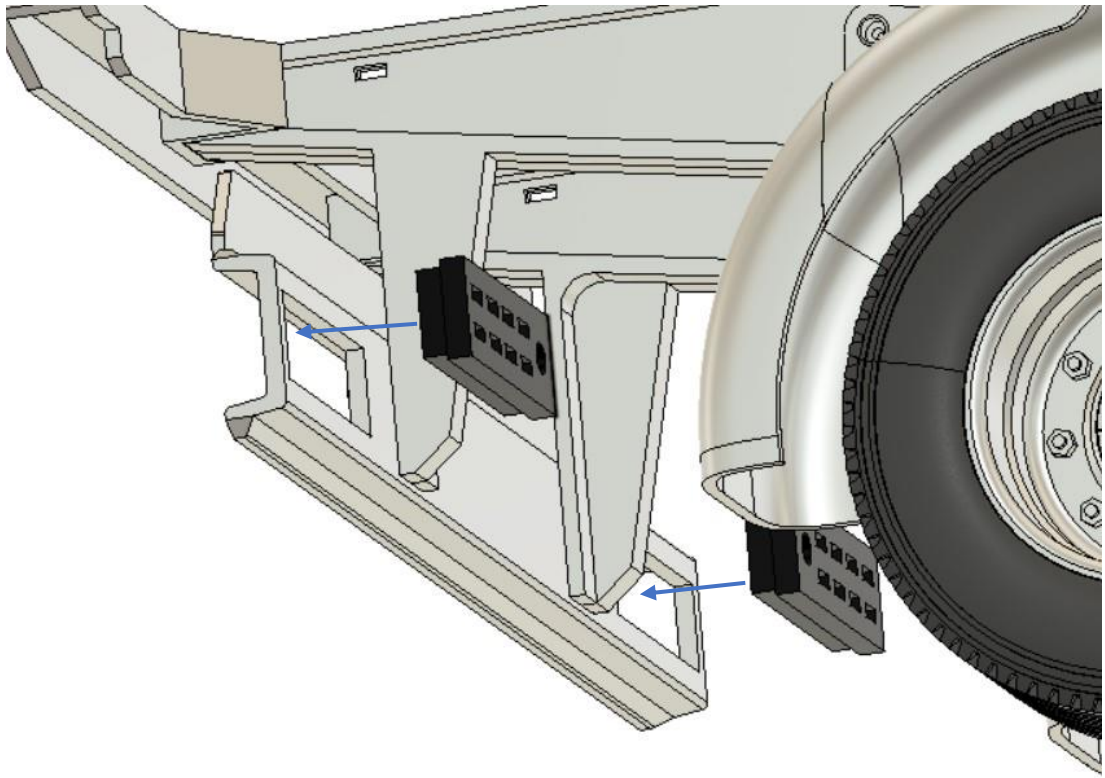
LED location



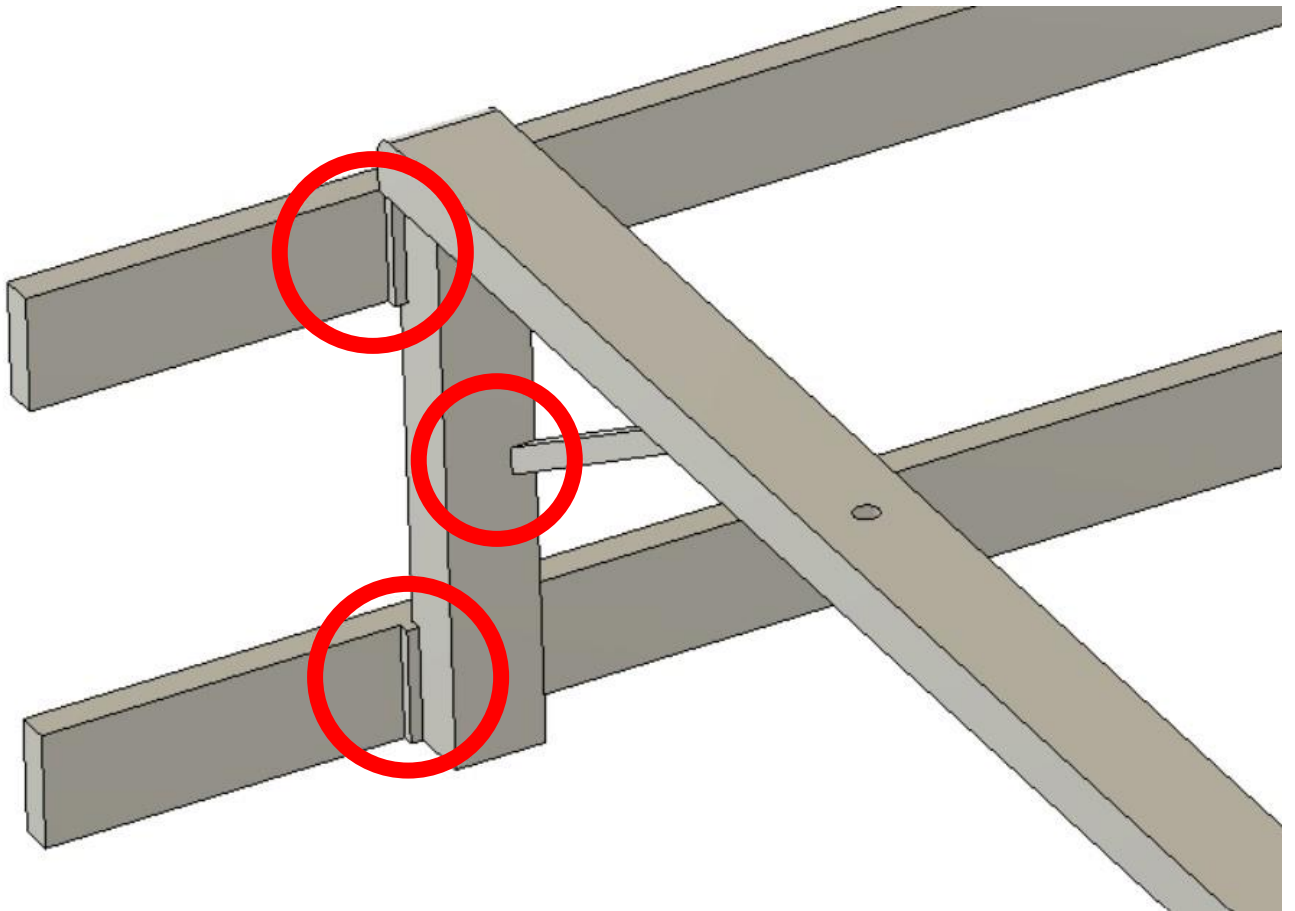
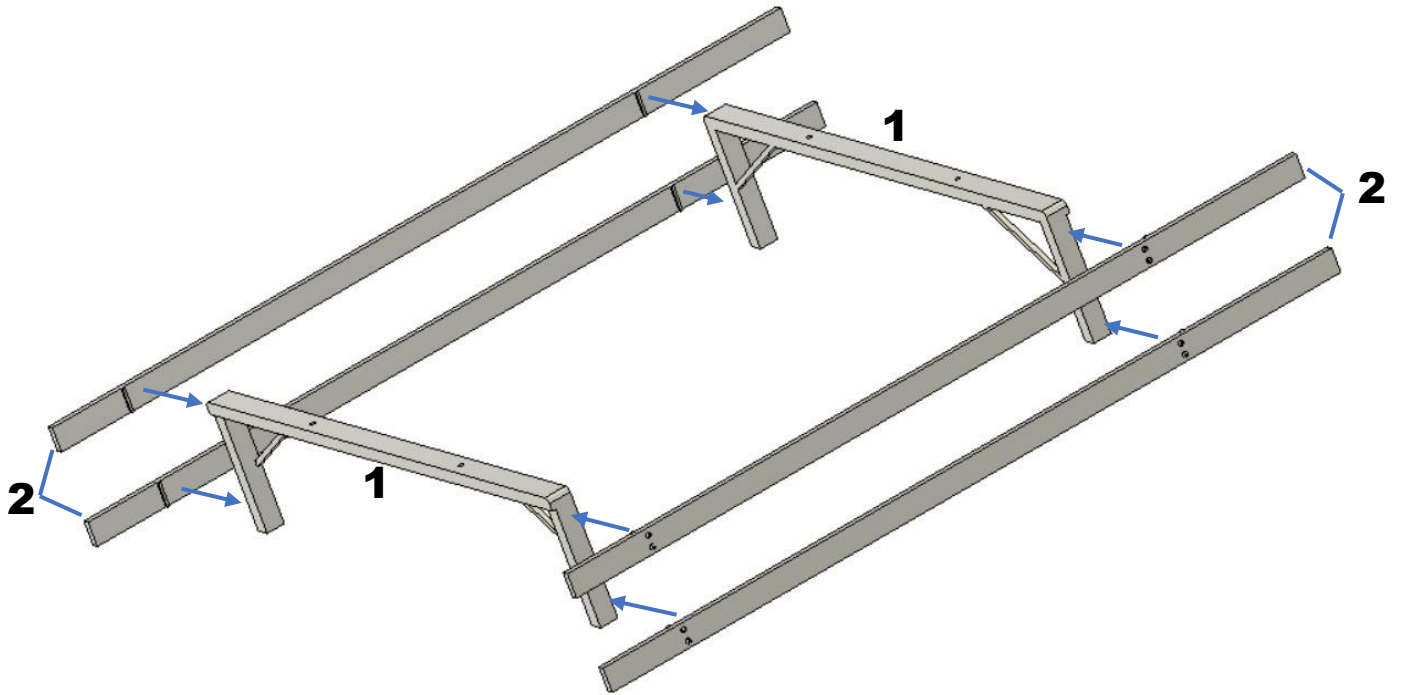
brake lights

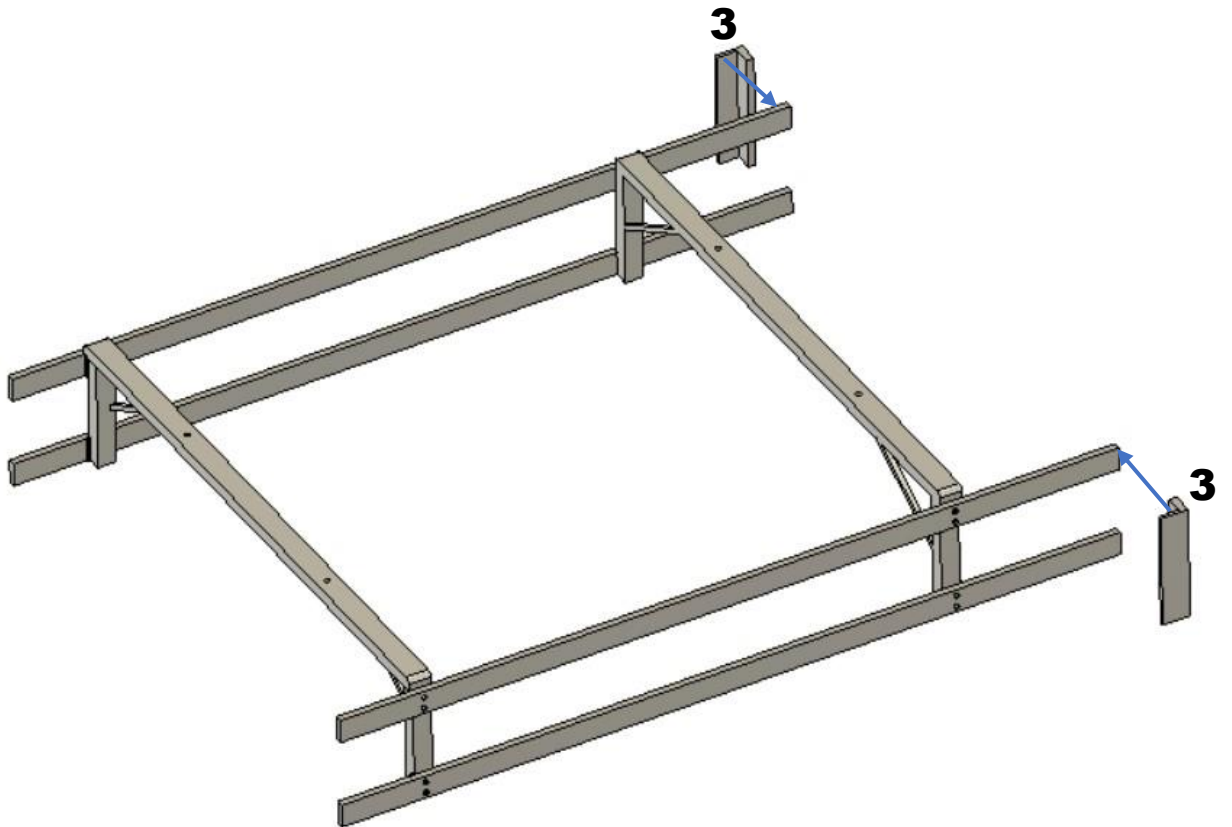
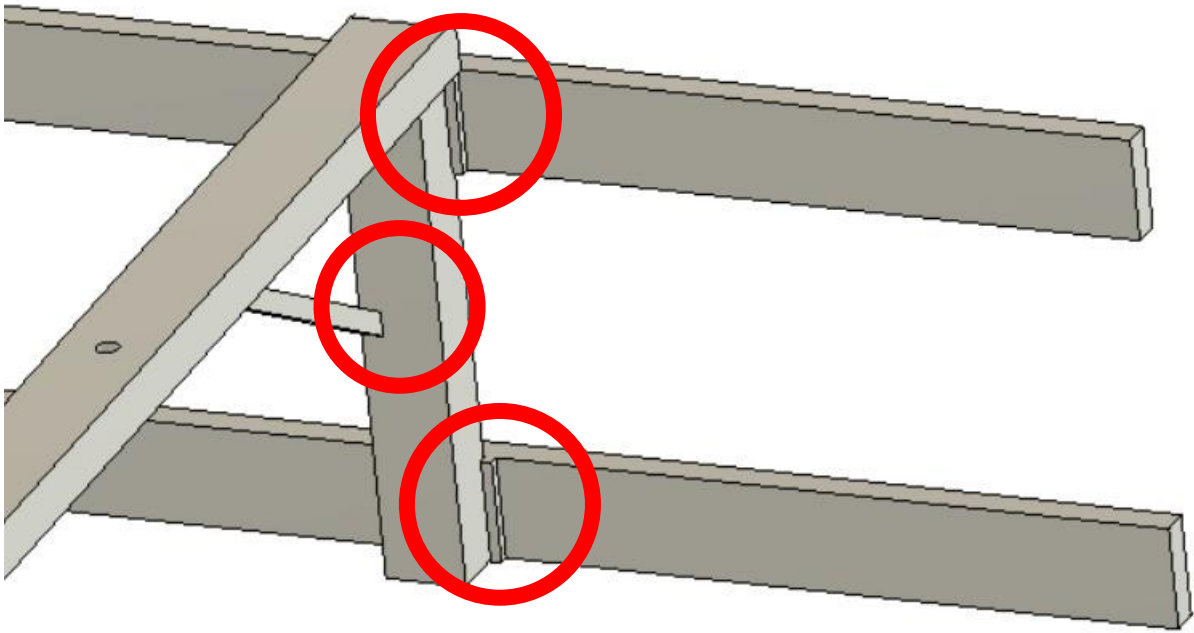
**All LEDs have shared +
Don't forget the resistance**



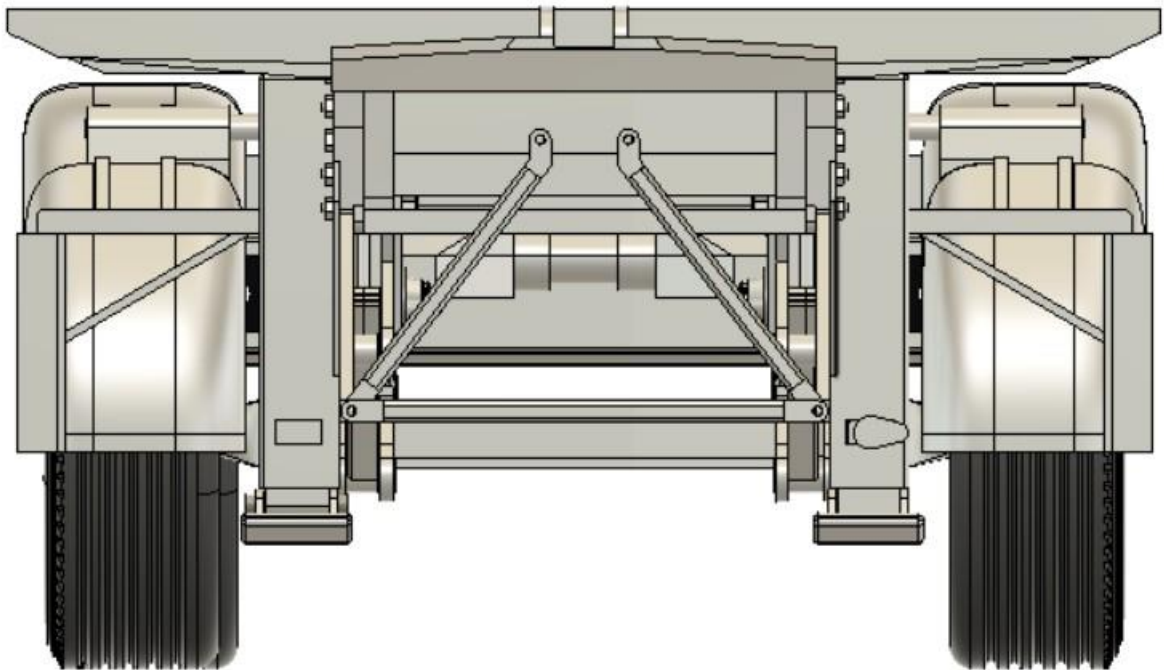
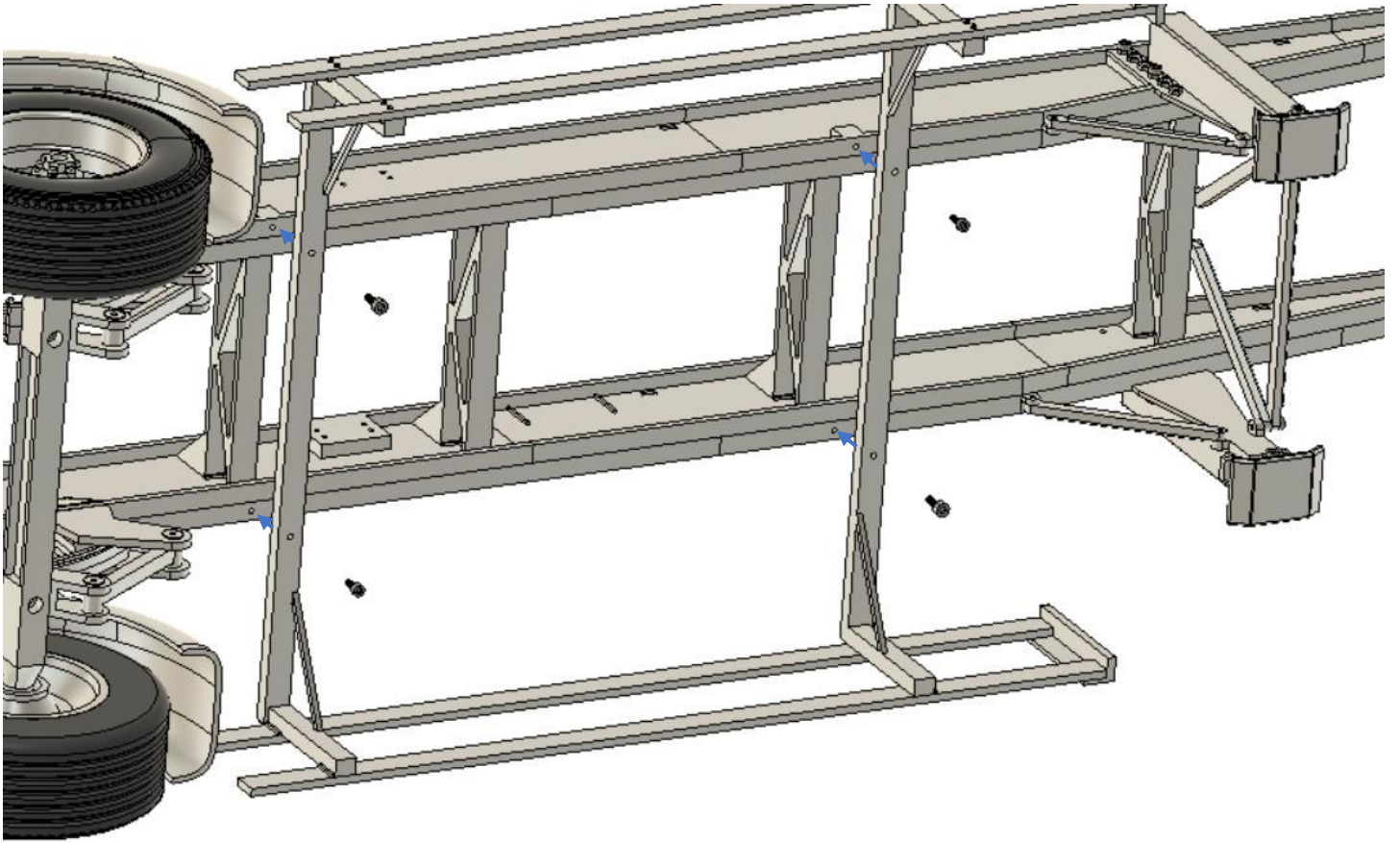


Accessories



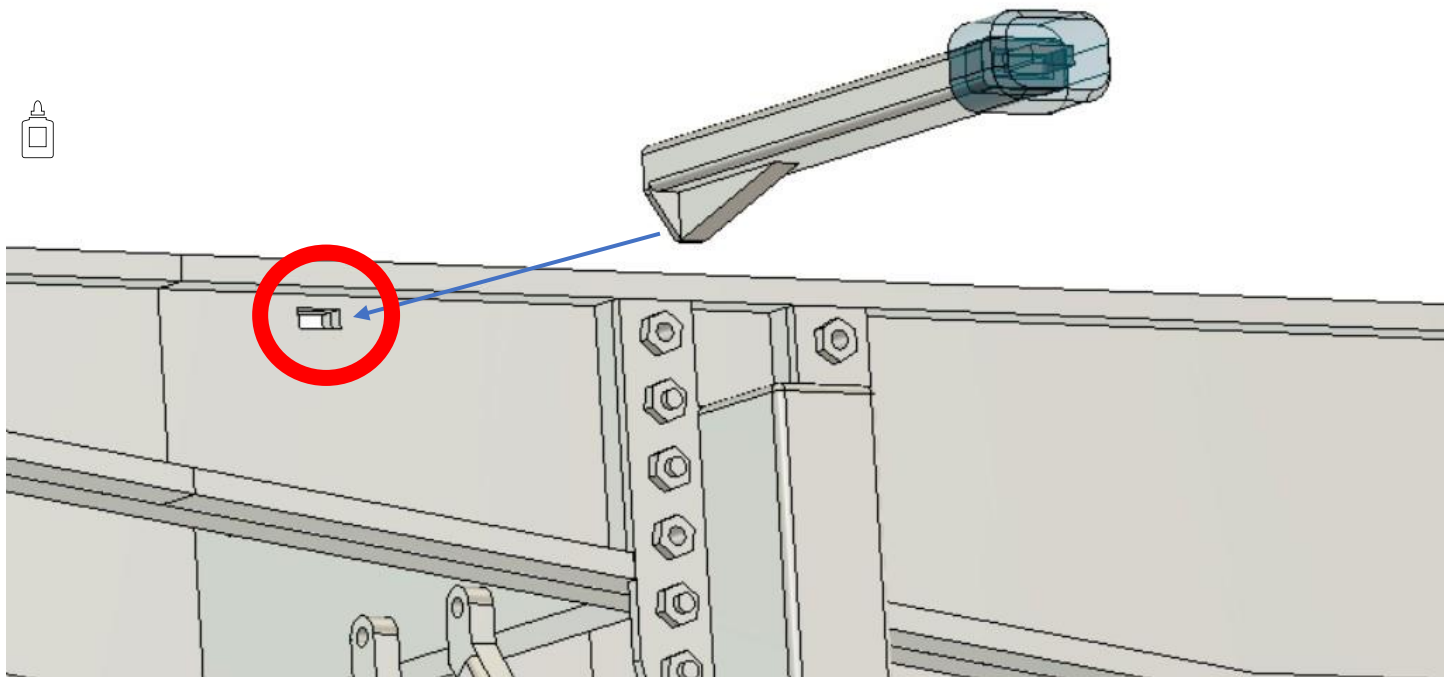
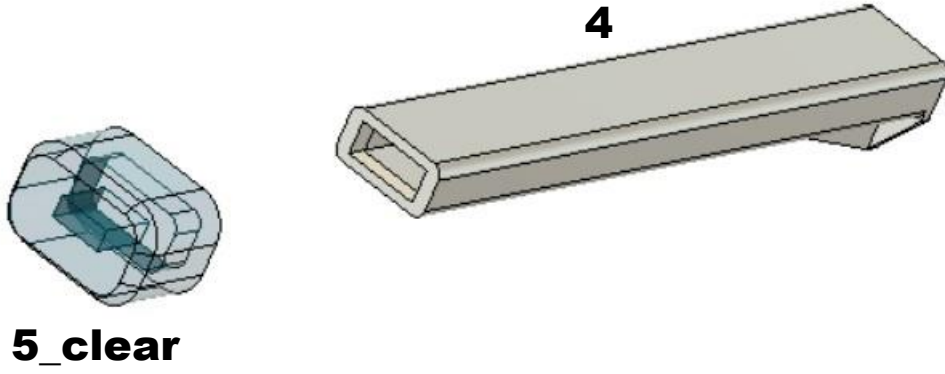


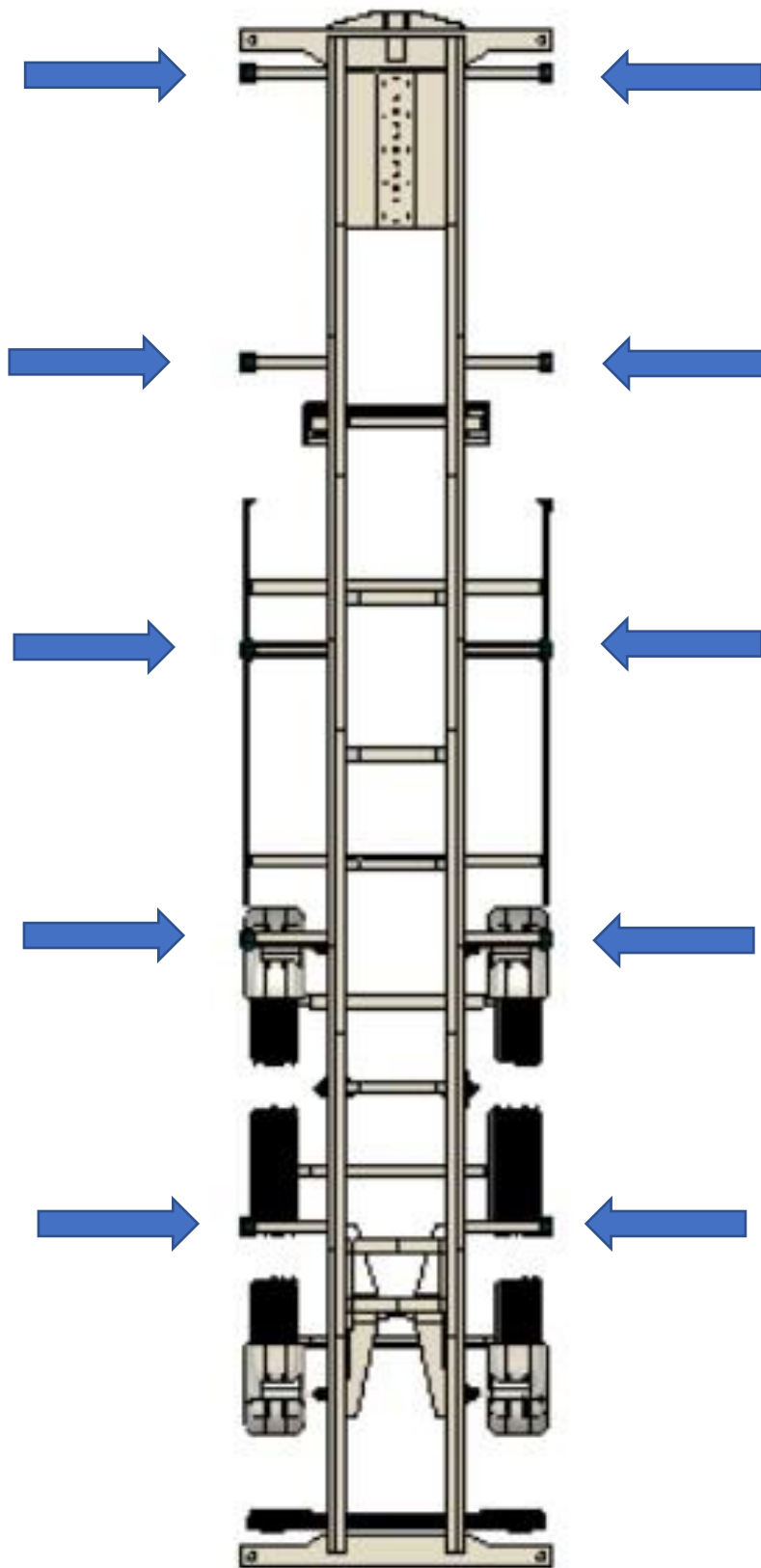
M2x10



Install LEDs with wires.

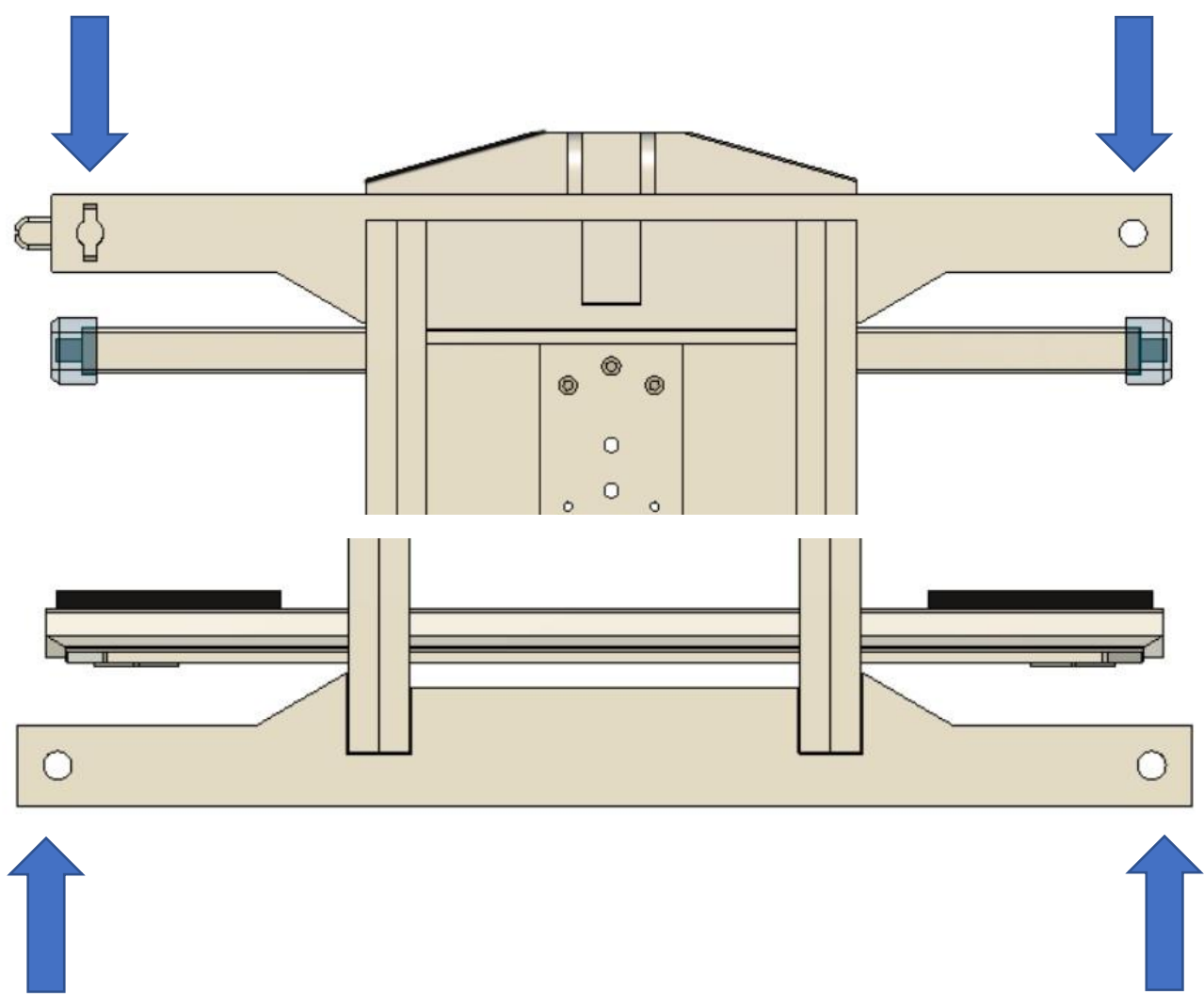
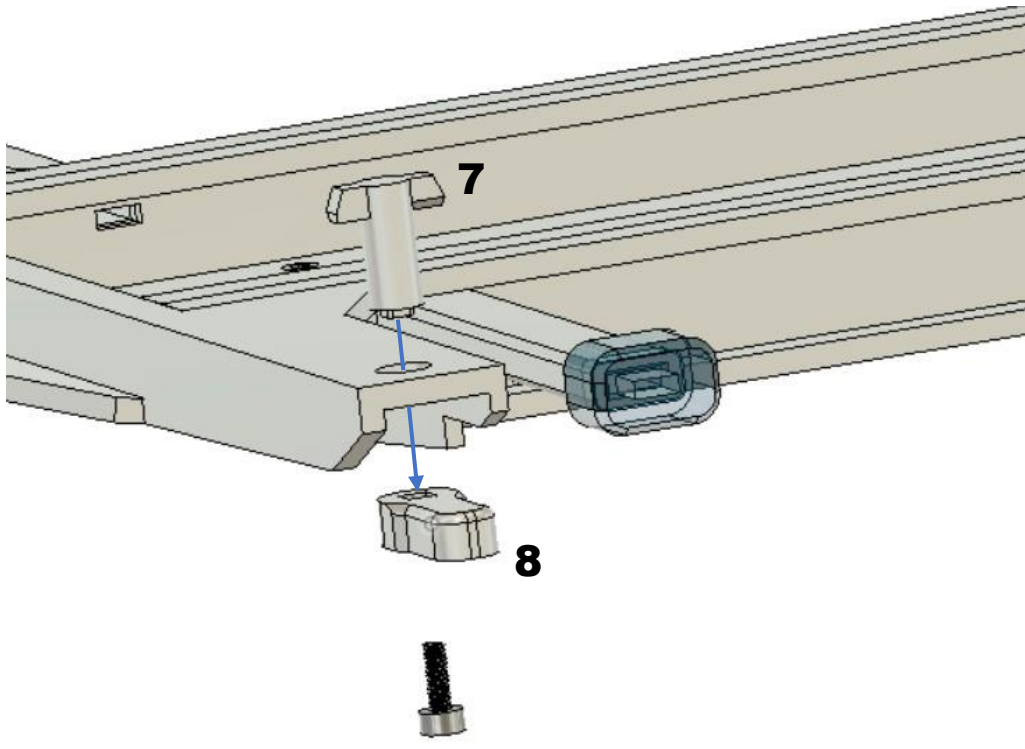
10x



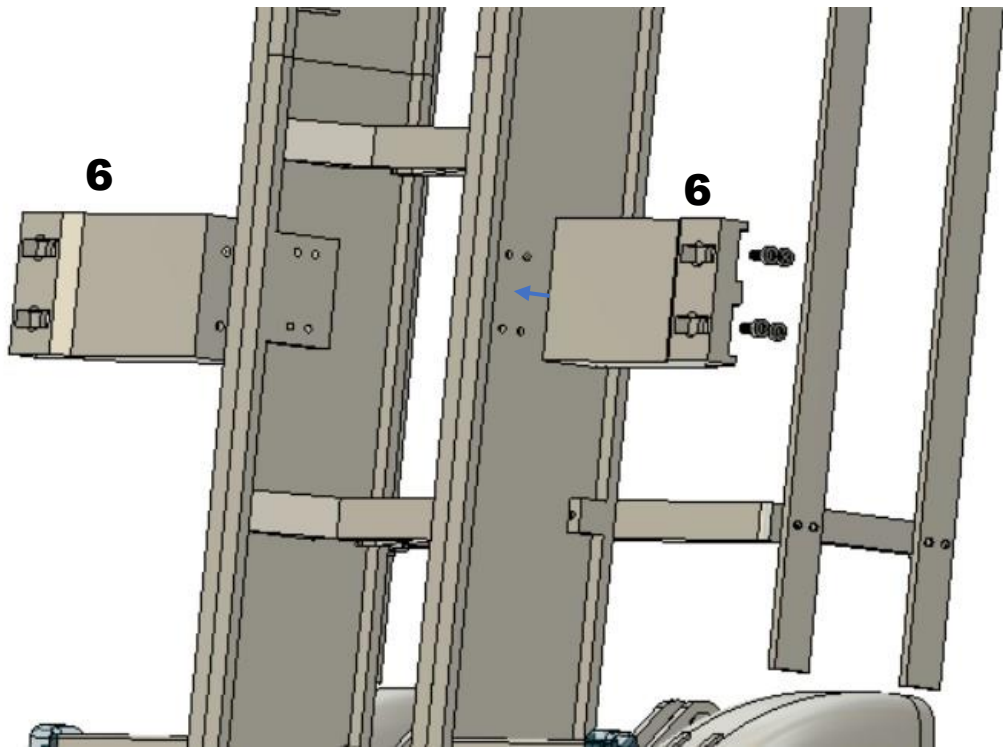


M2x6

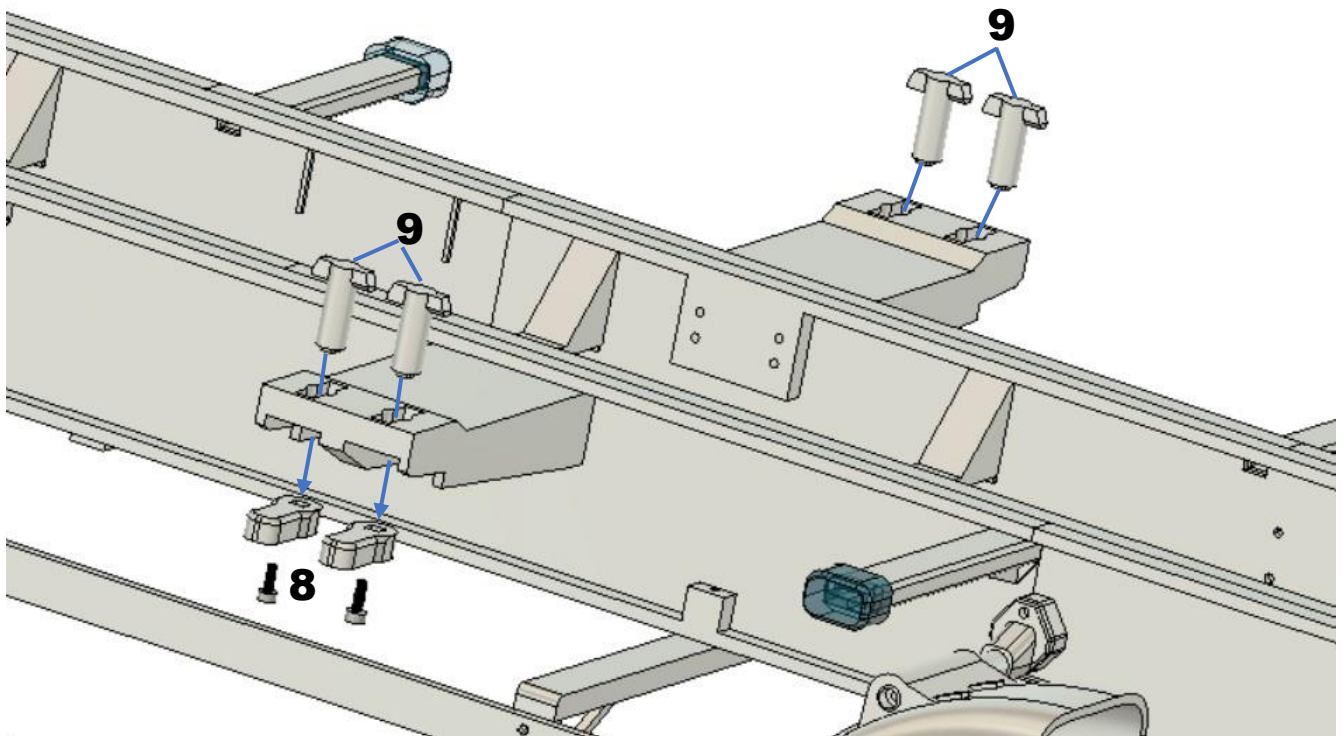
4x



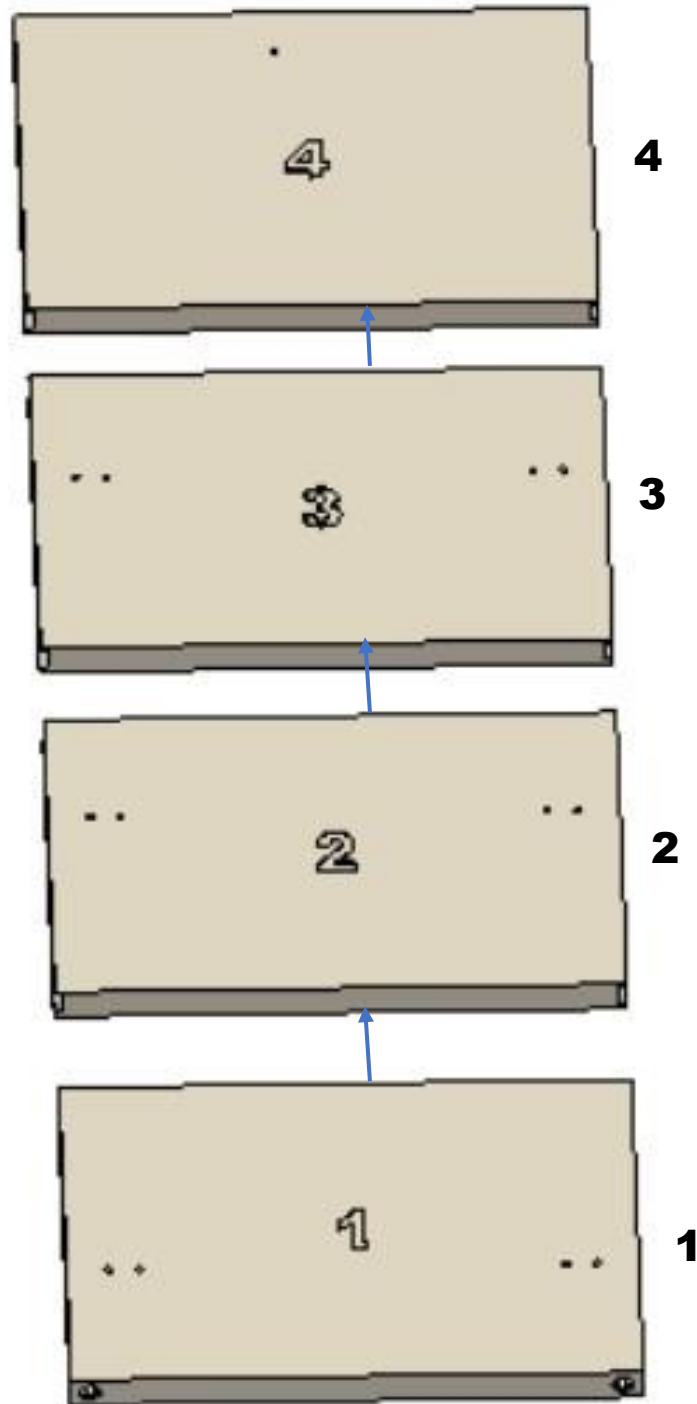
M2x10

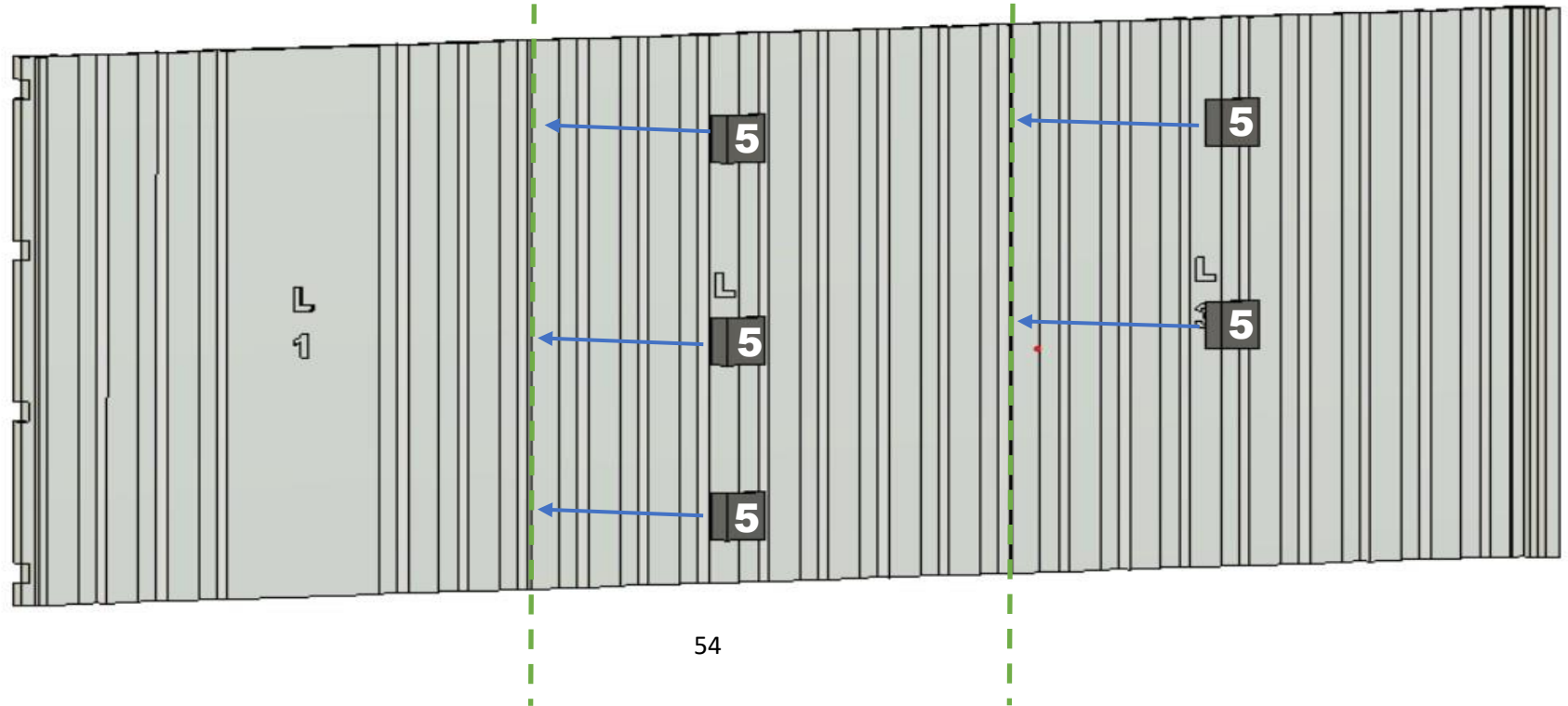
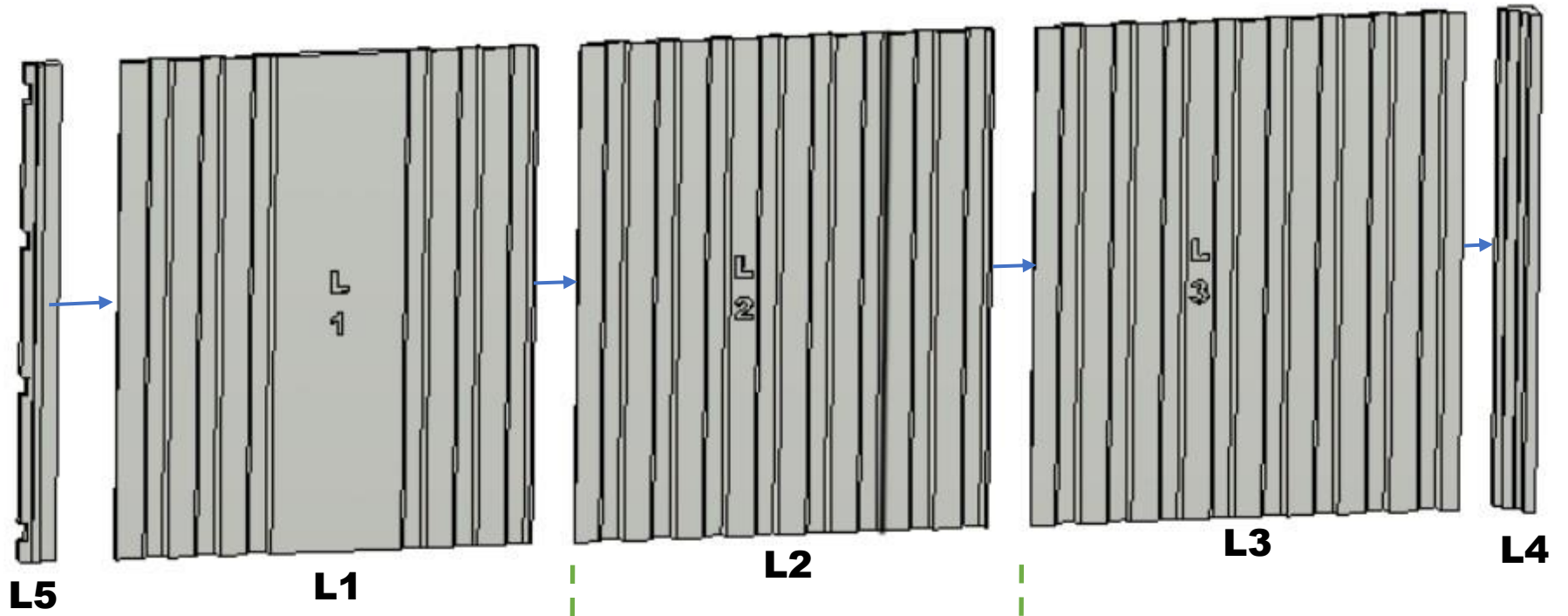


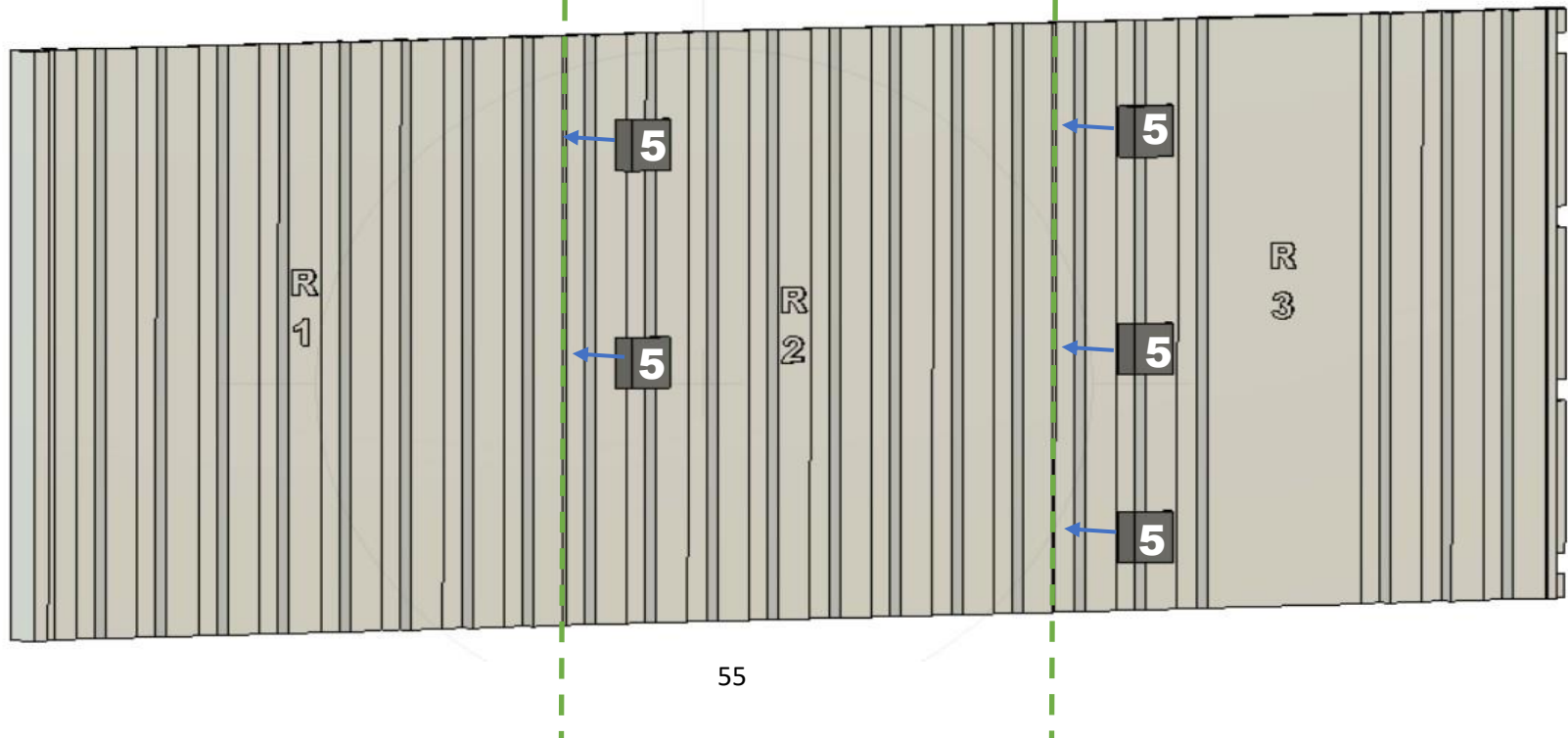
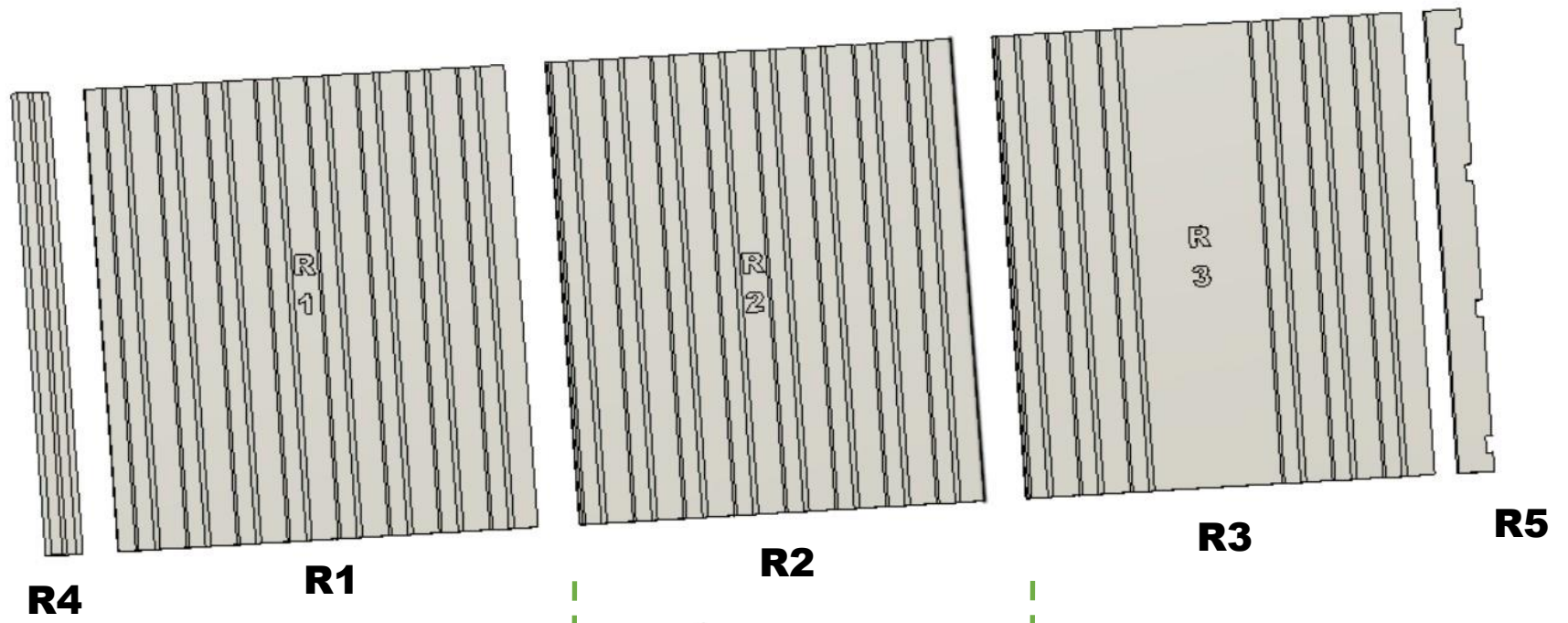
M2x6



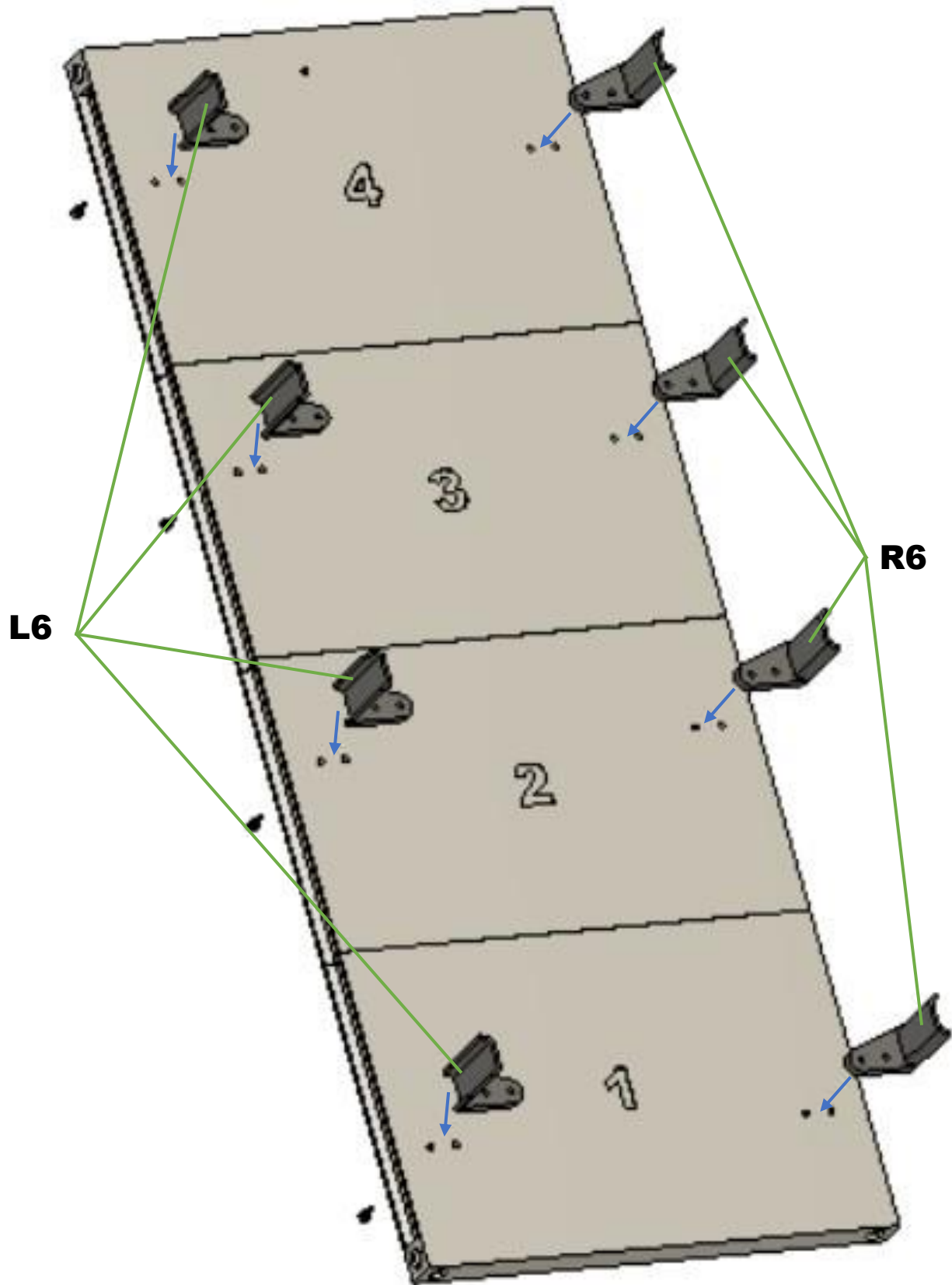
Container

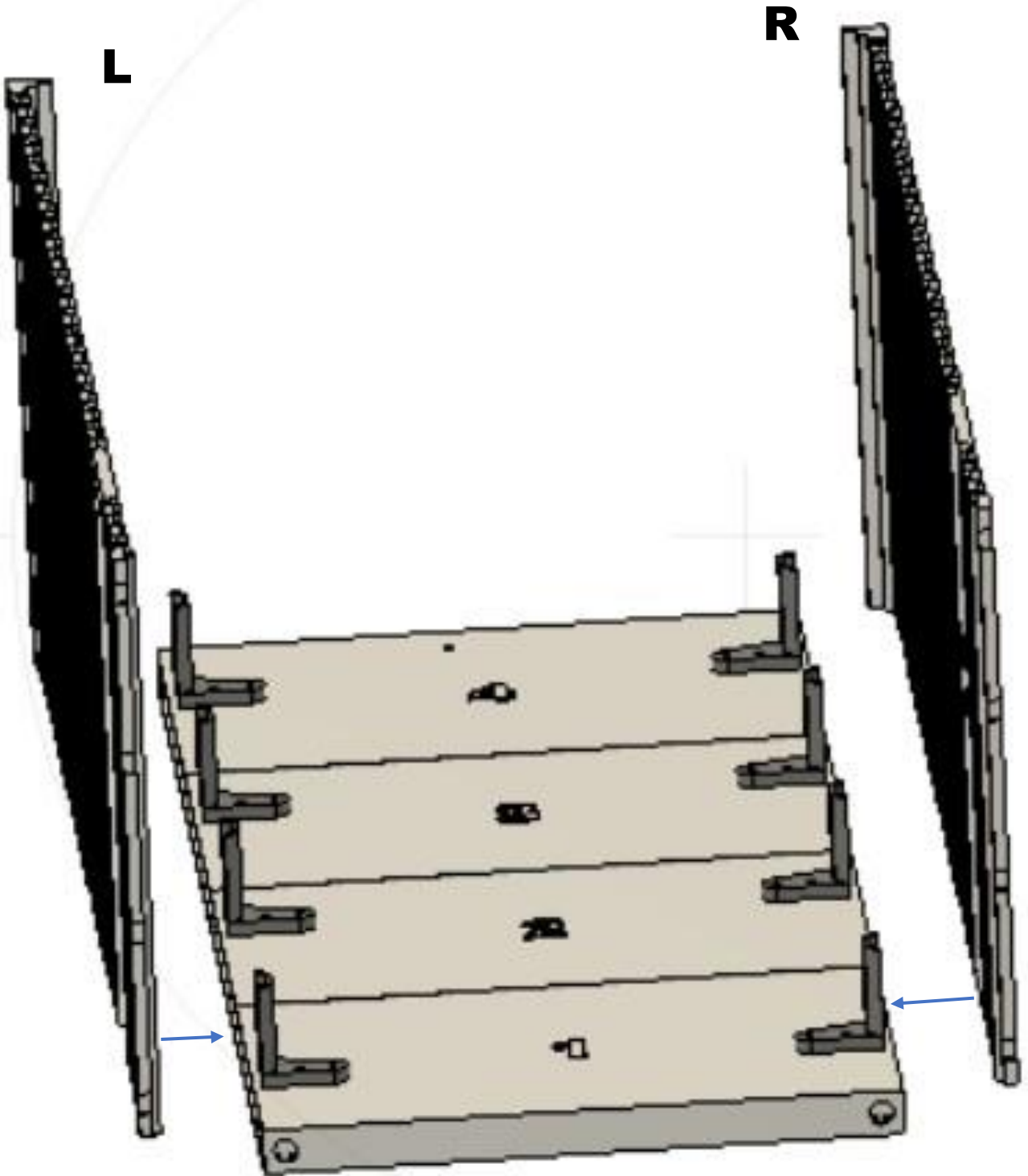


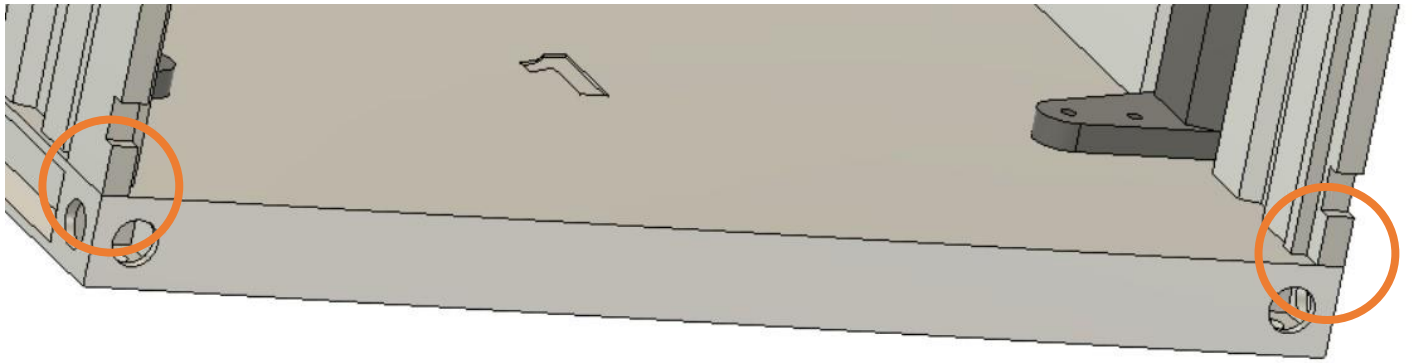




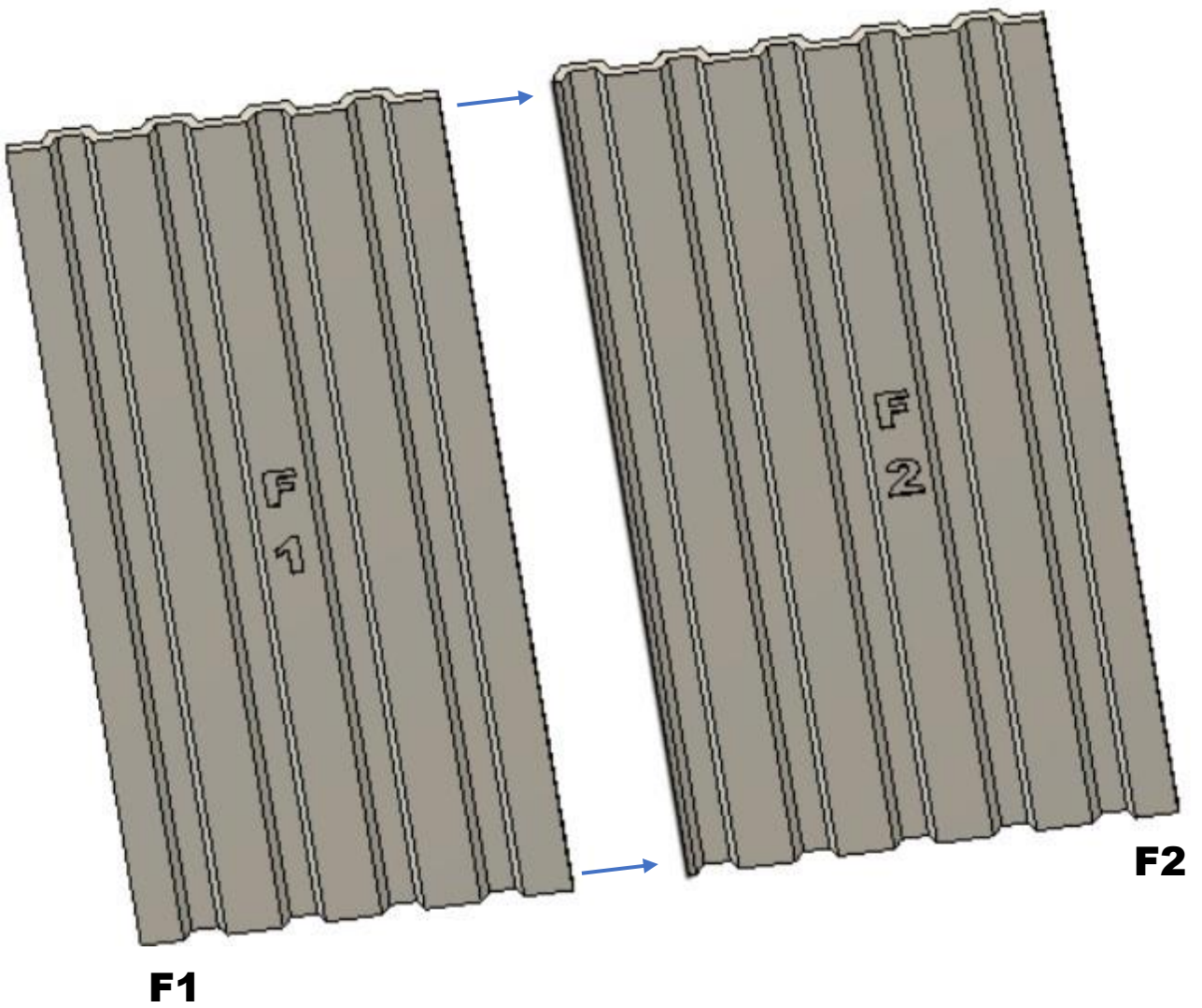
M3x10

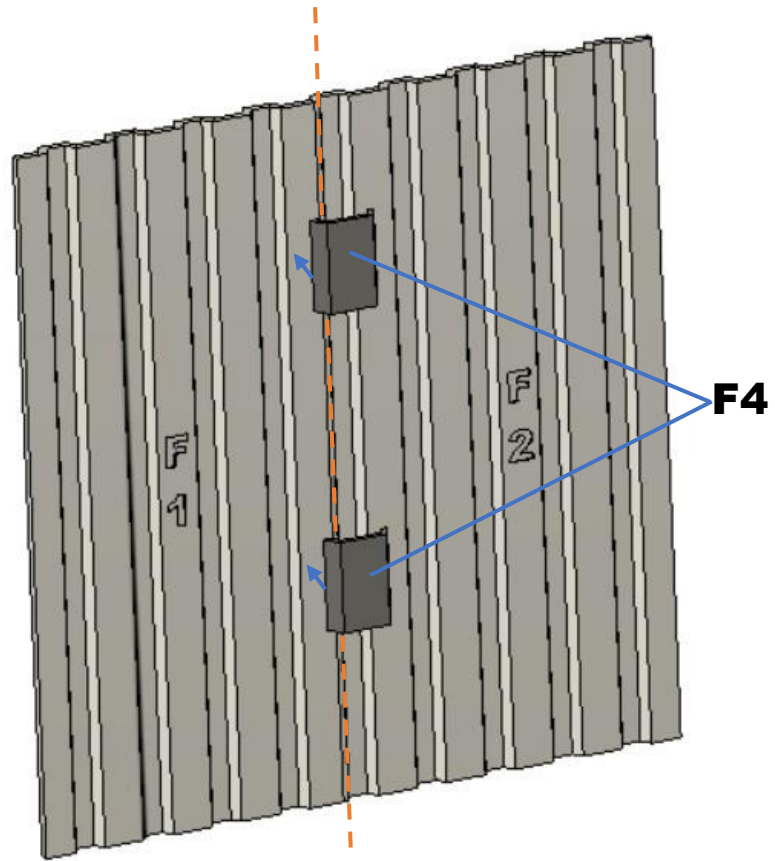




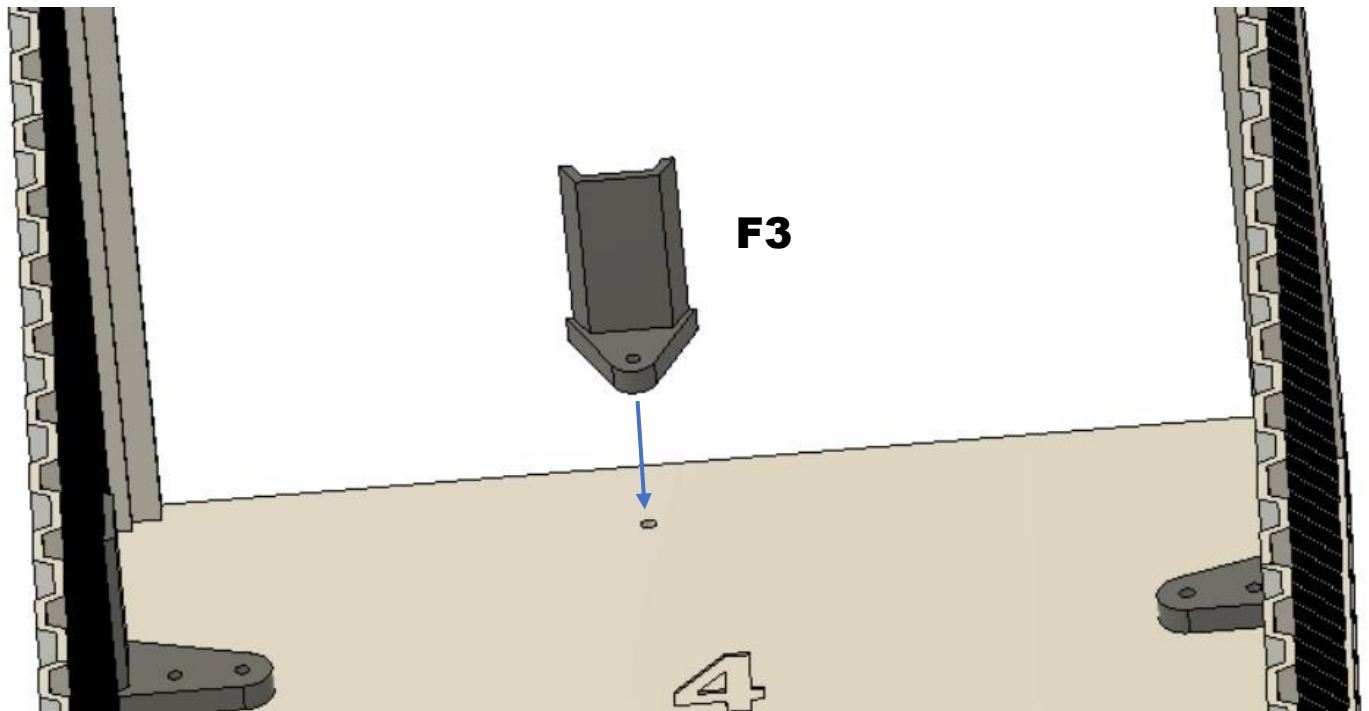


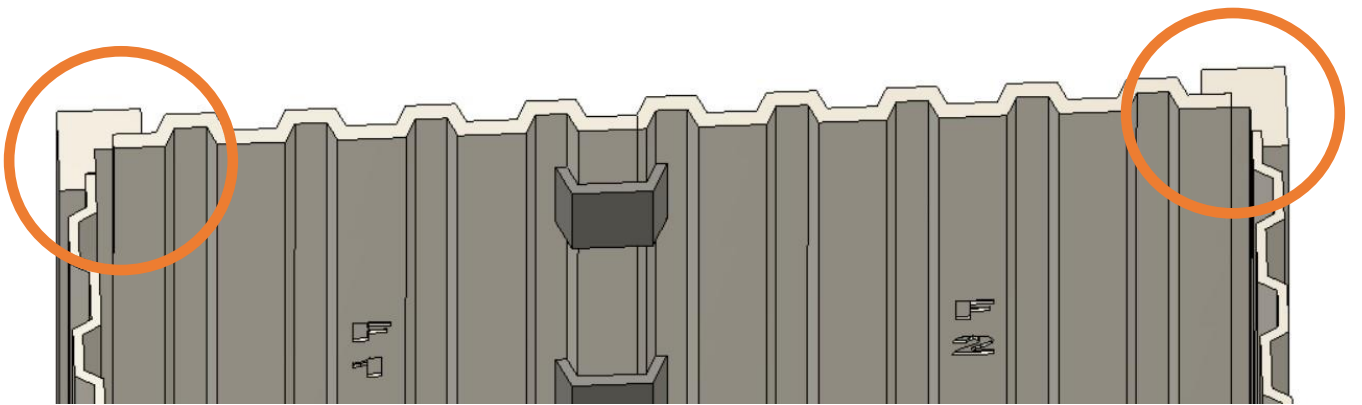
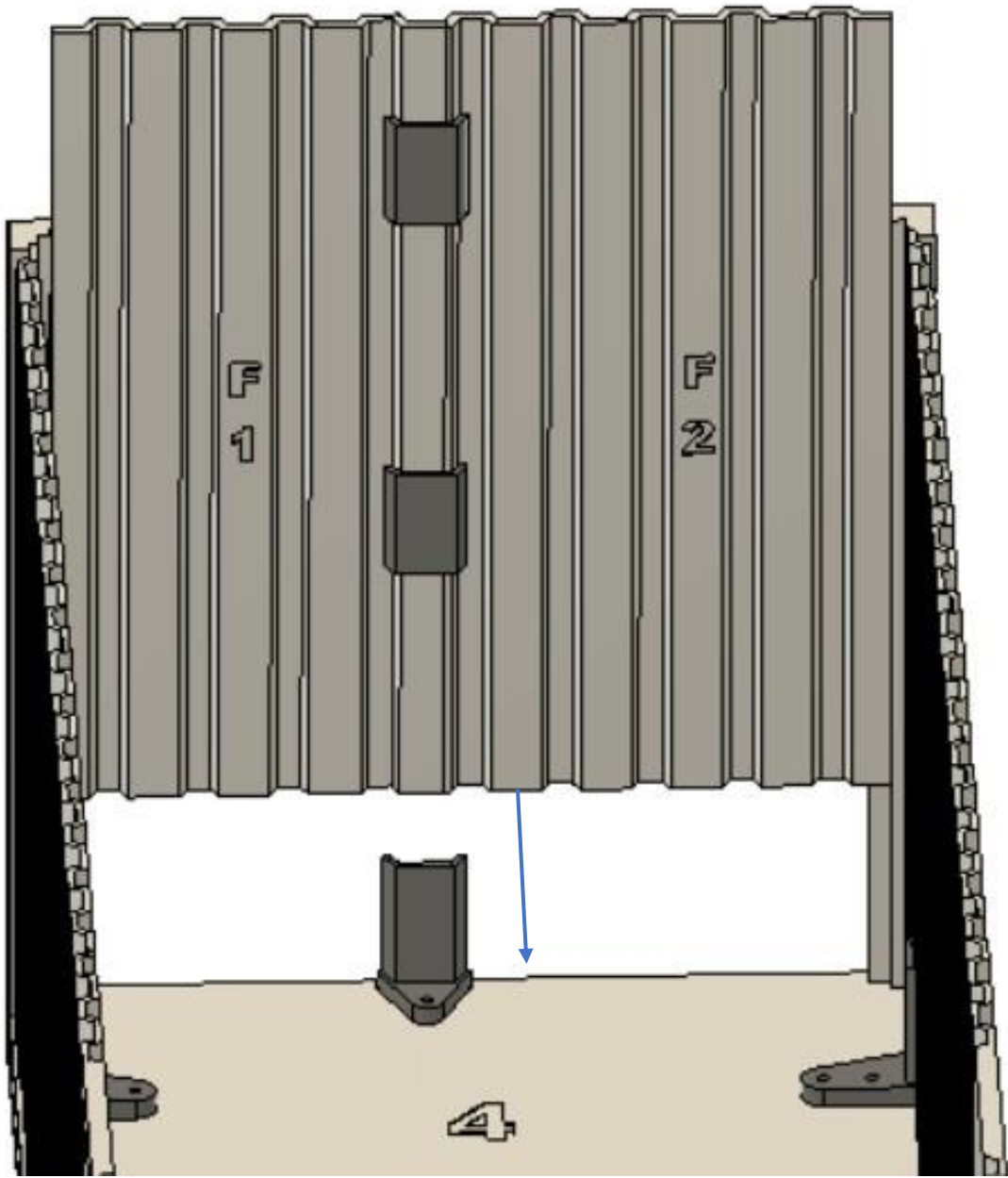
Front





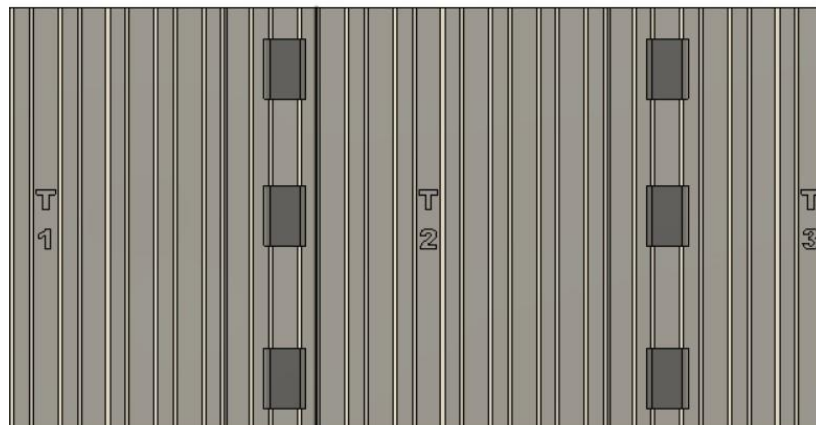
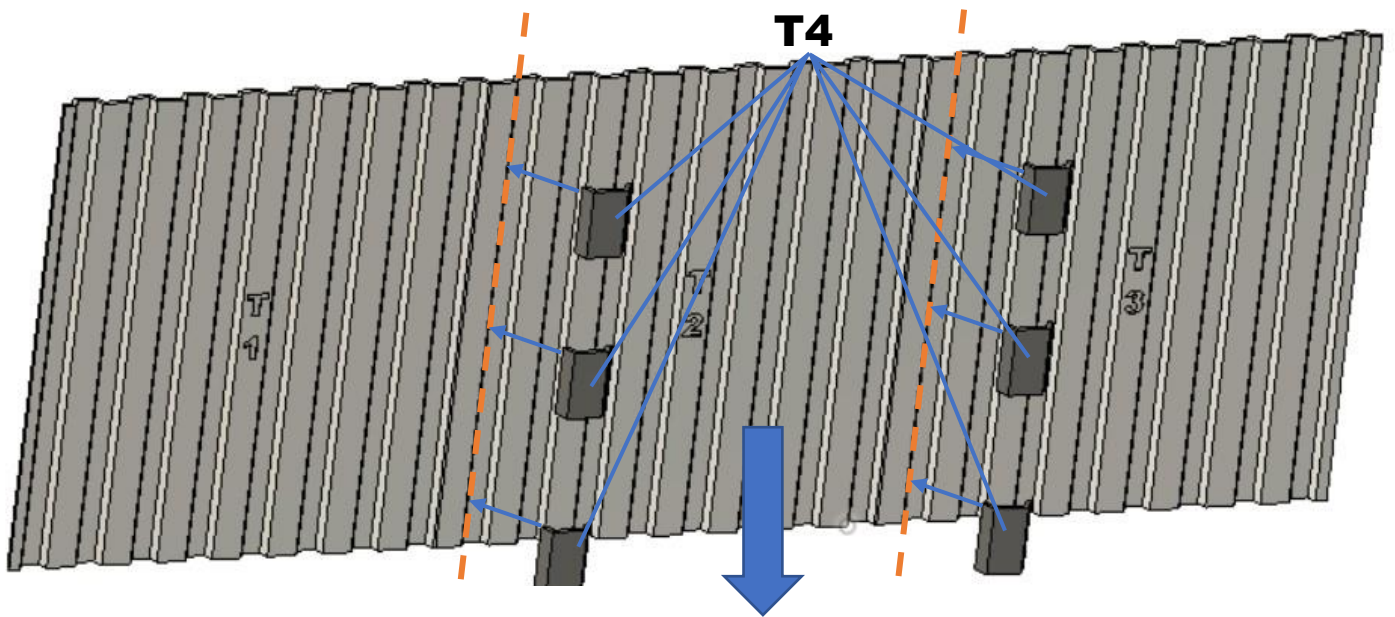
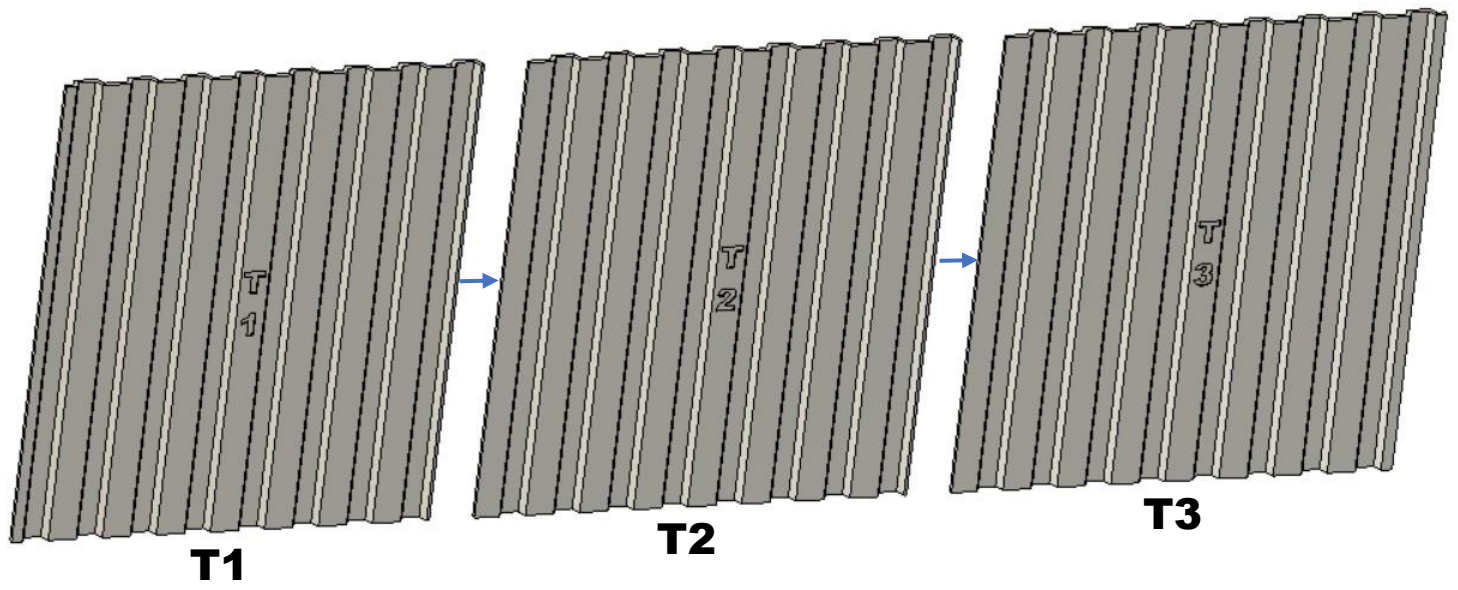
M3x10





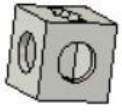


Top





2x



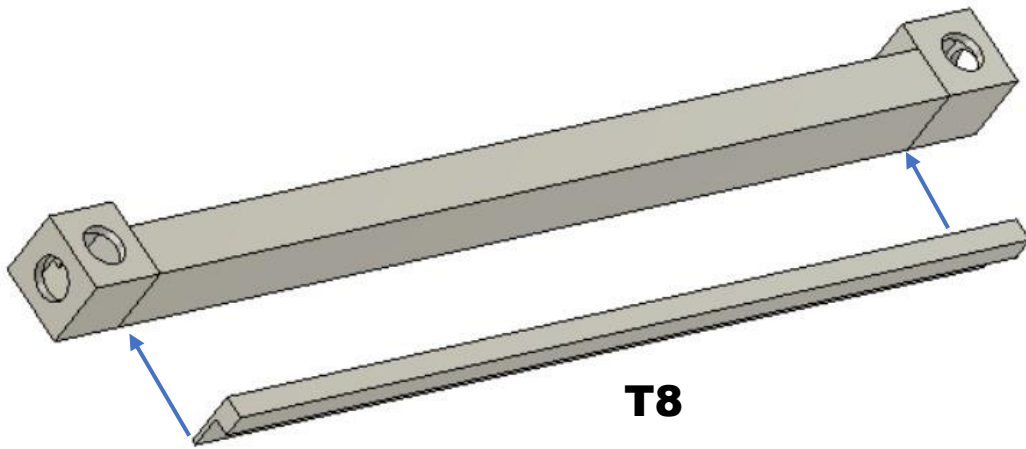
T6



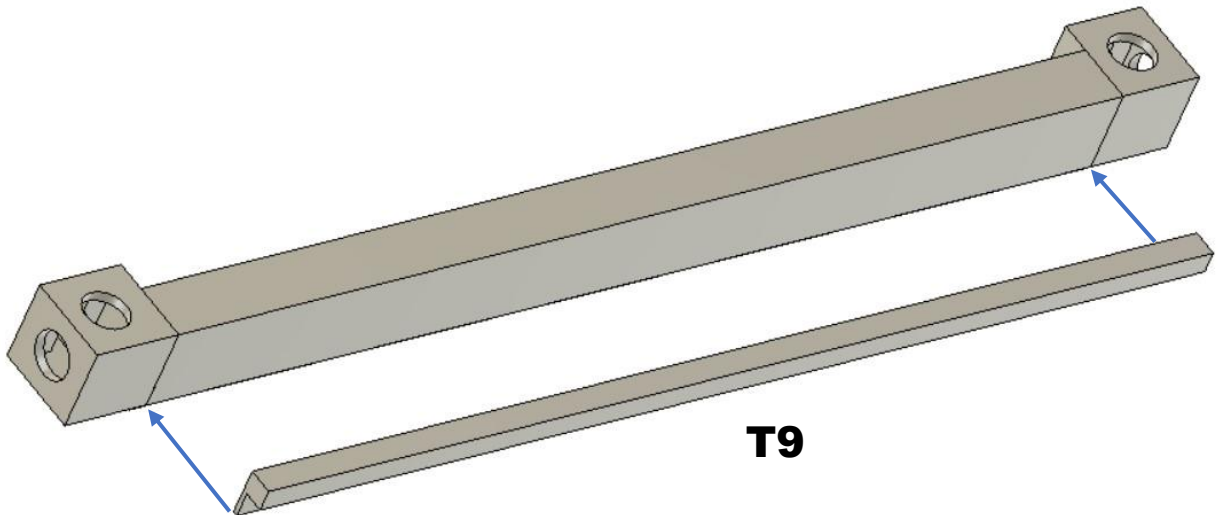
T5



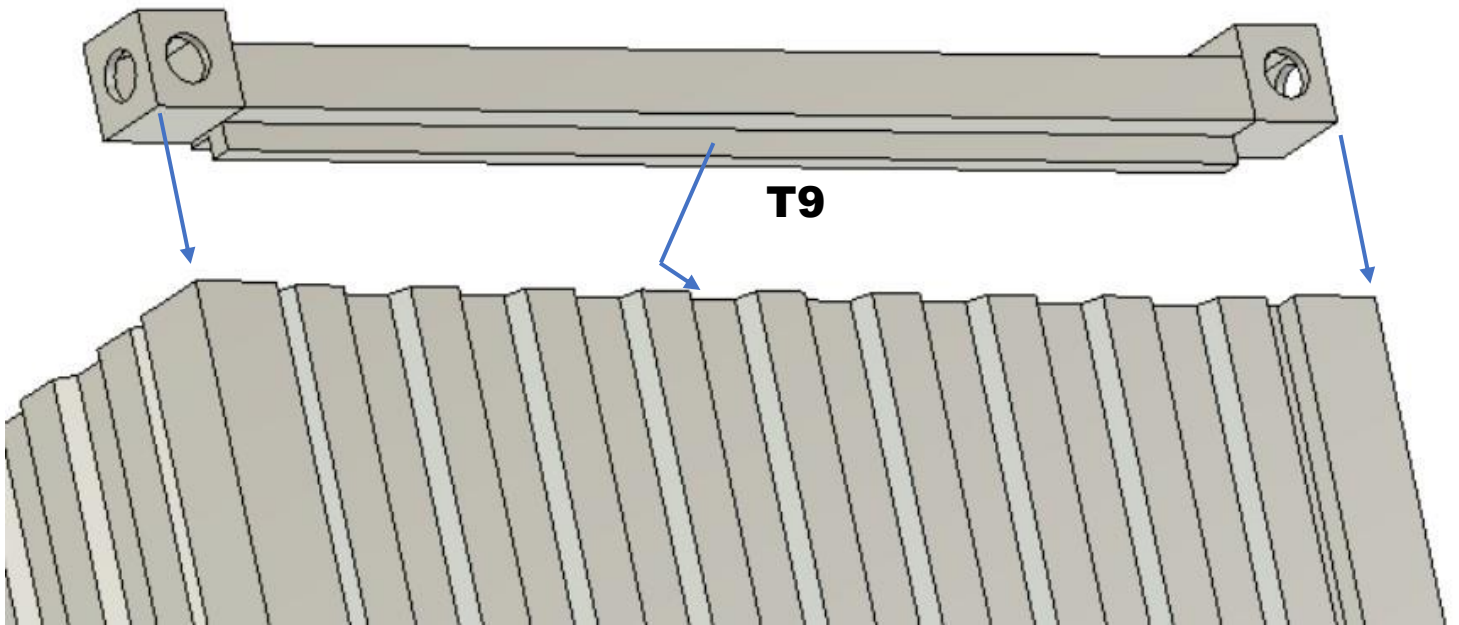
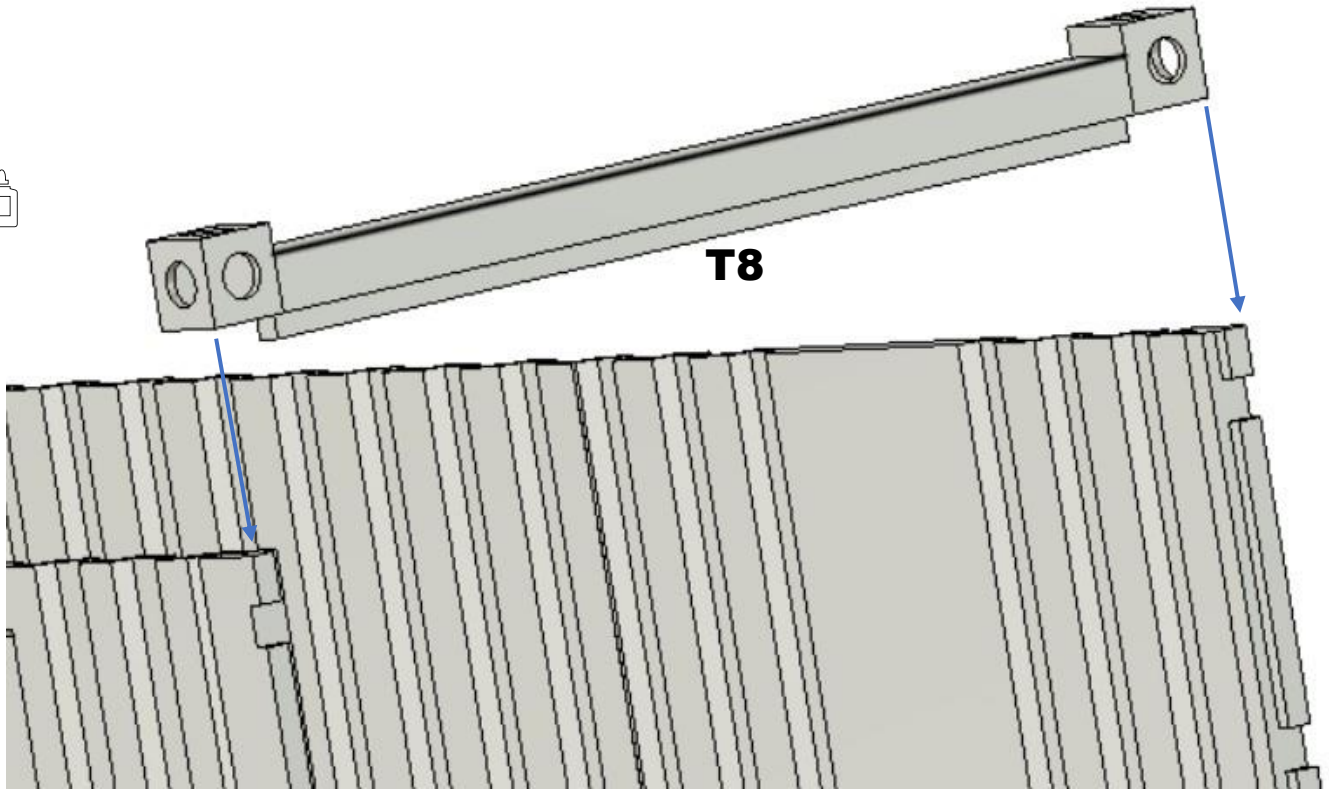
T7

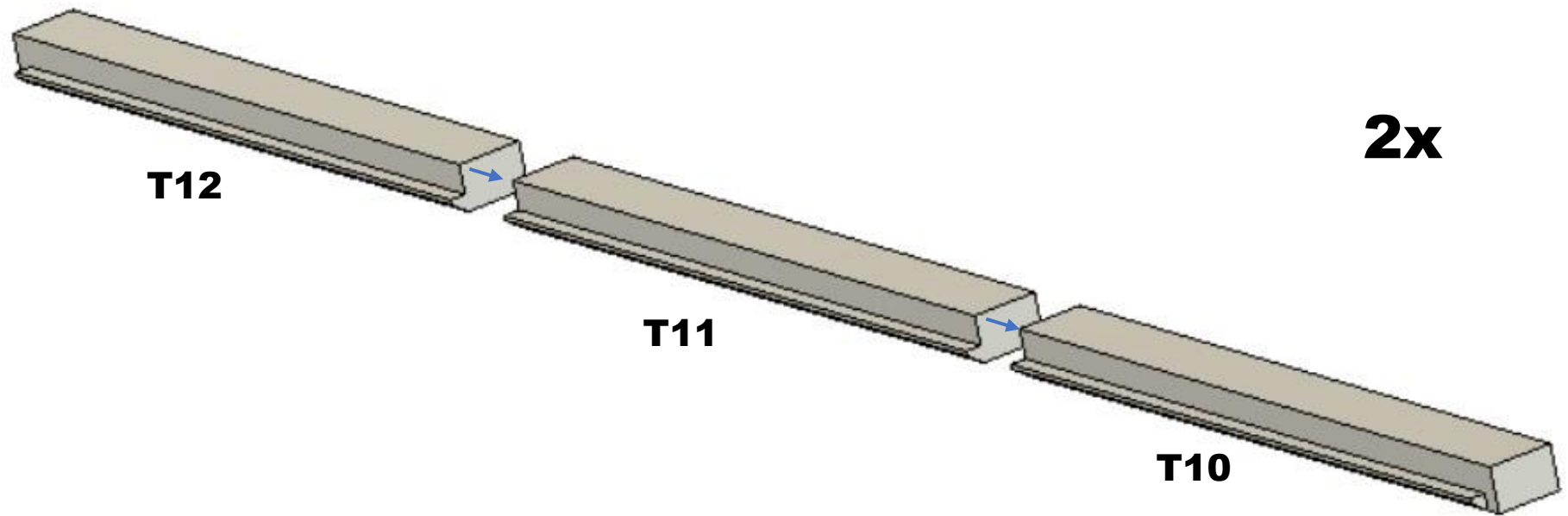


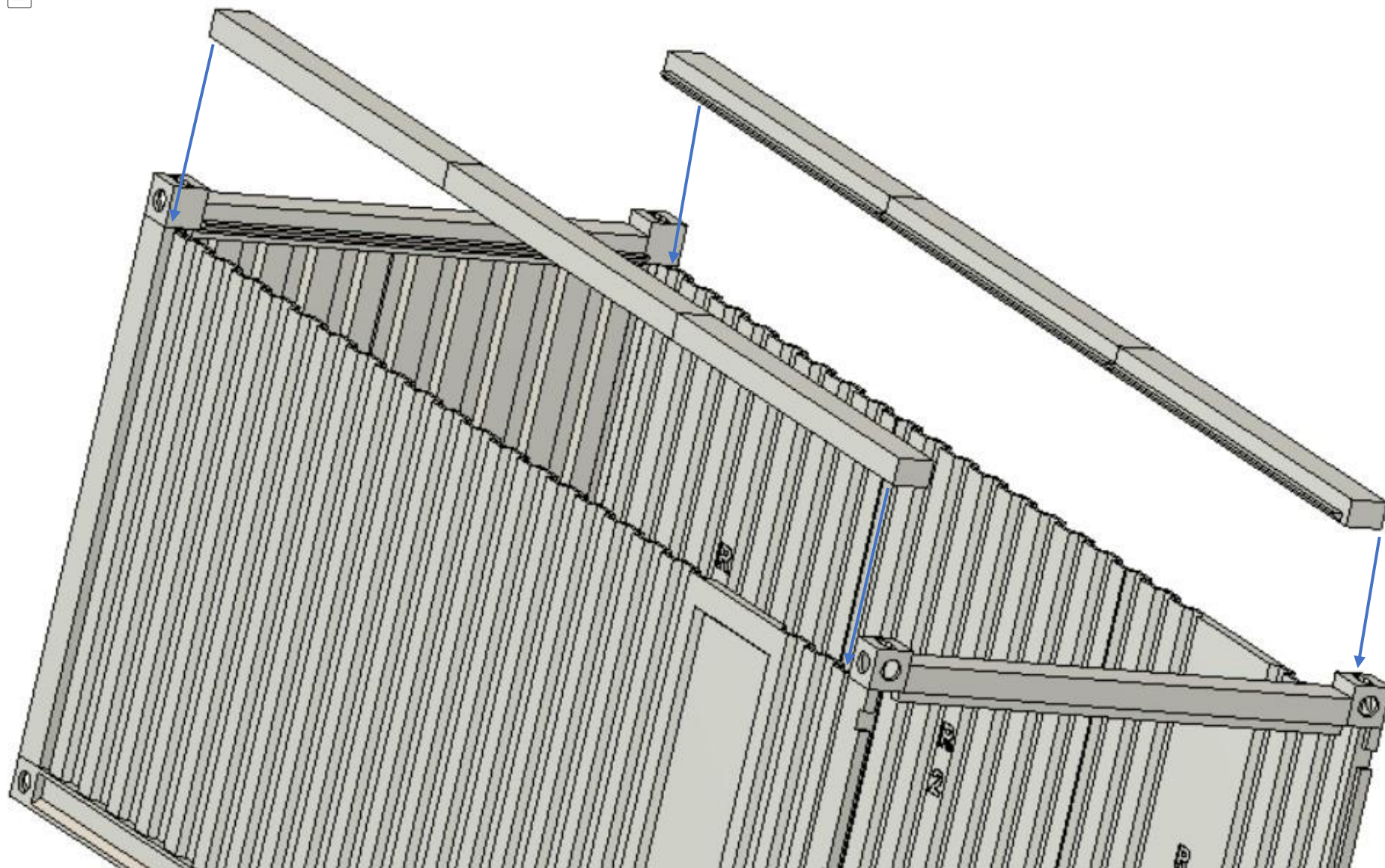
T8

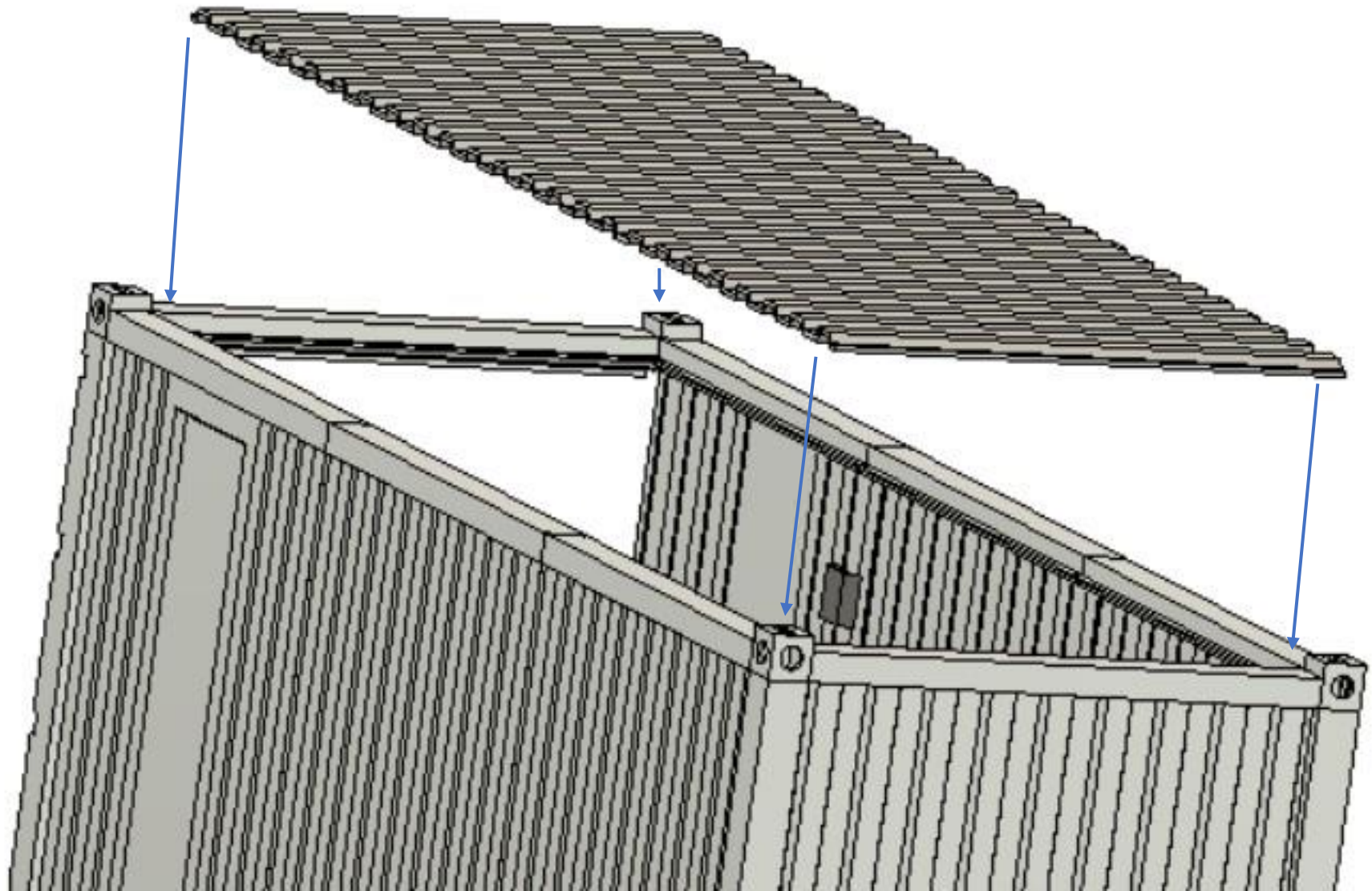


T9

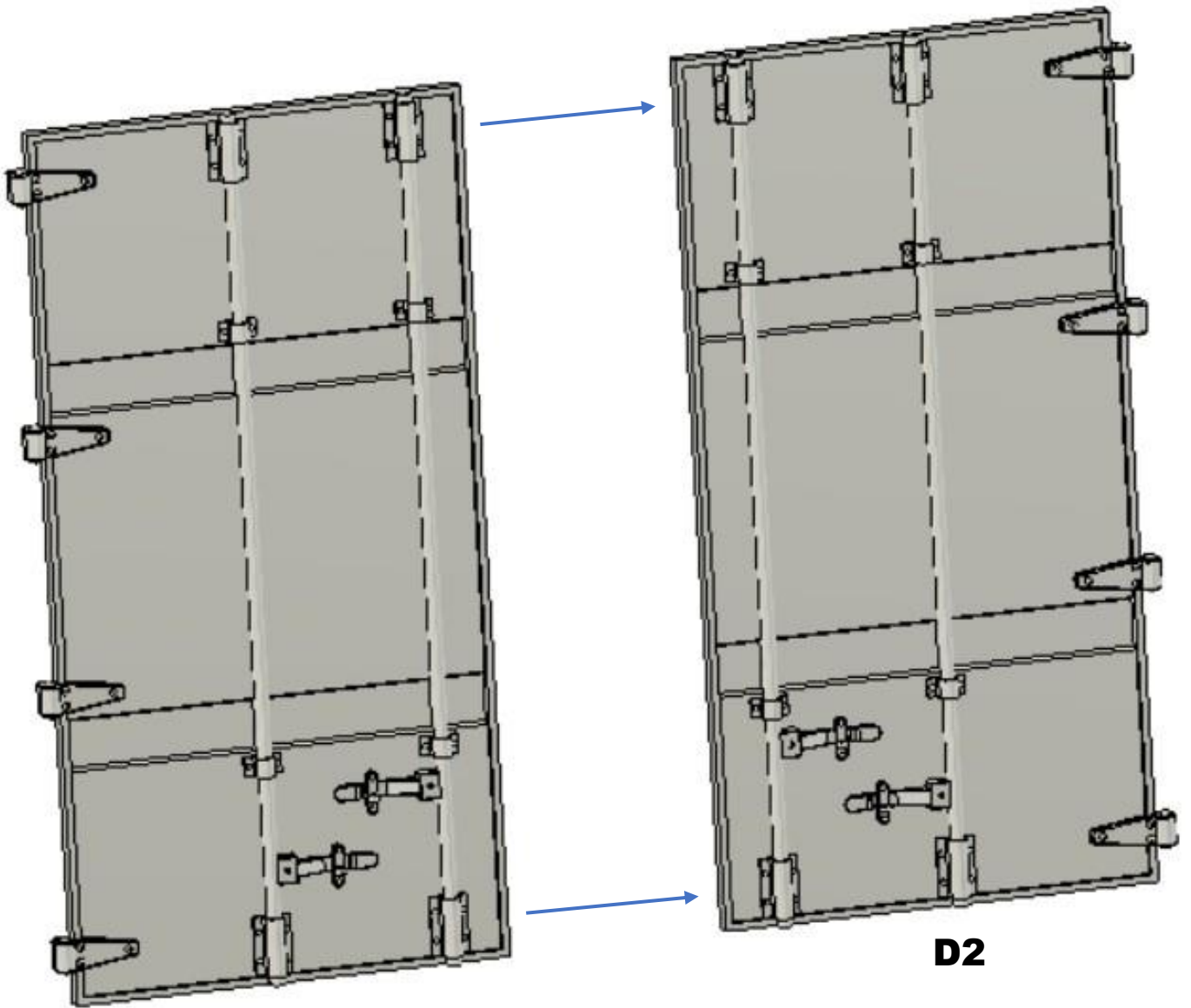






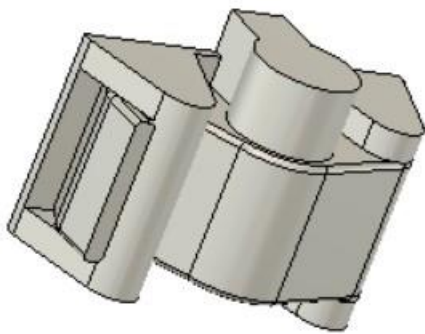
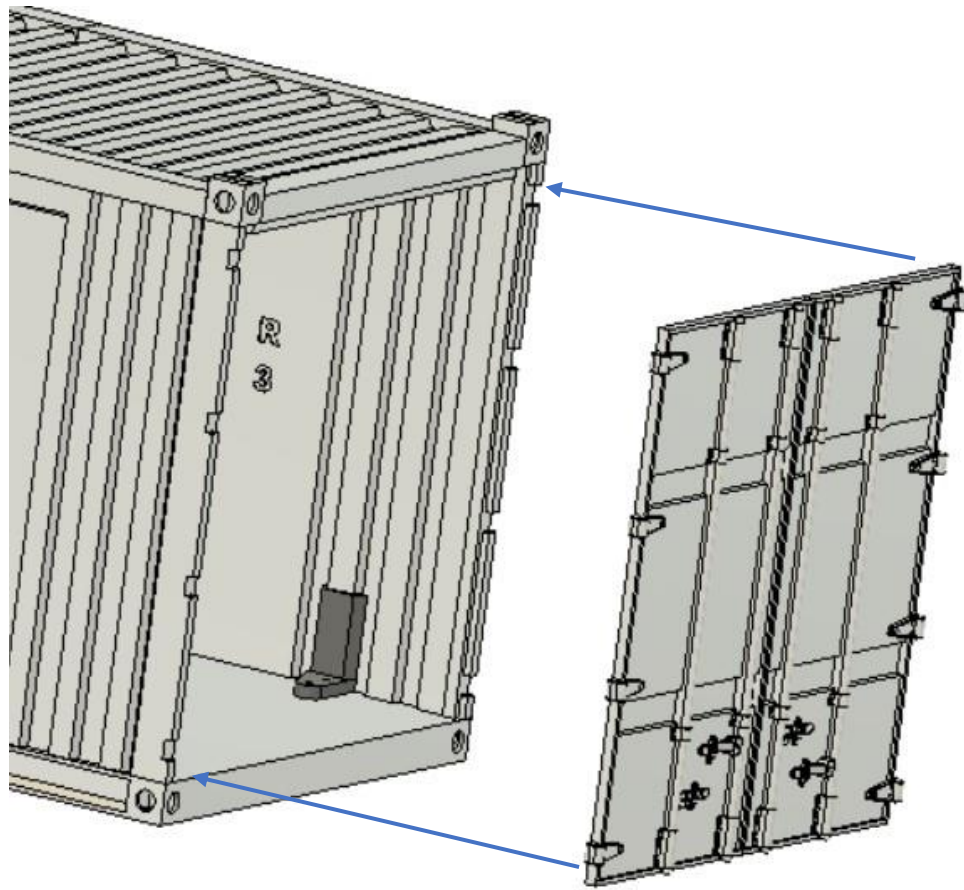


Door

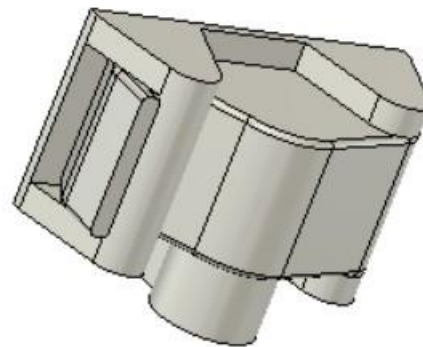


D1

D2

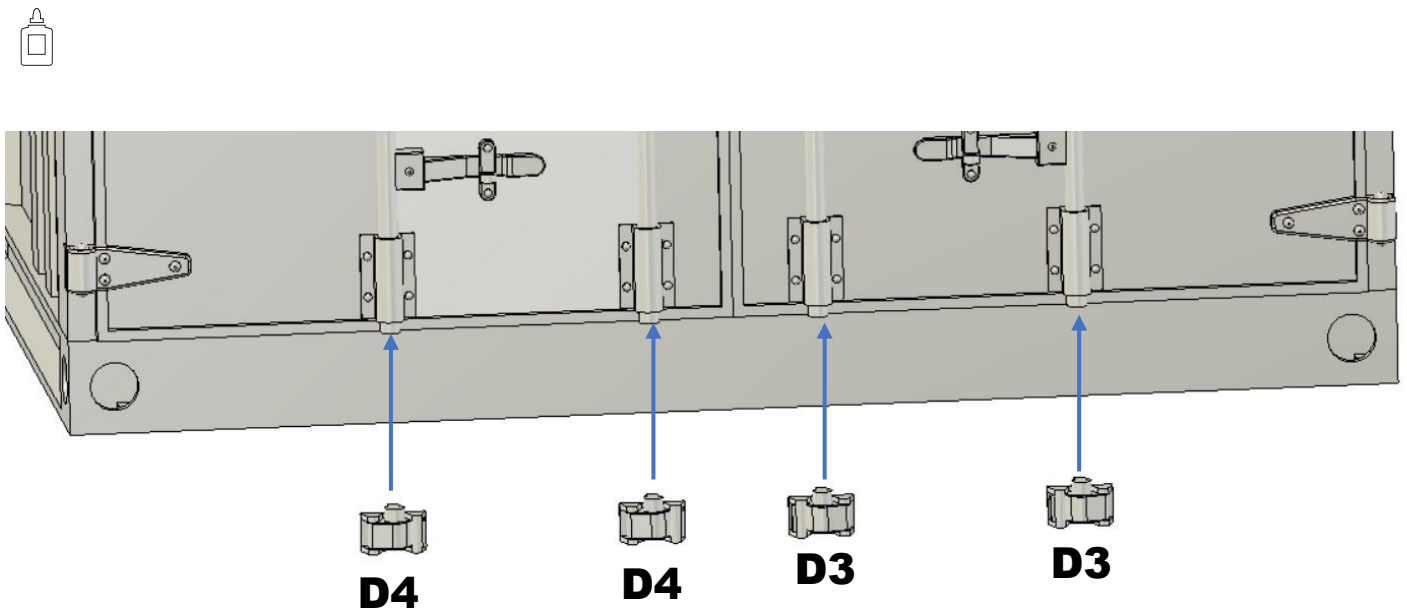
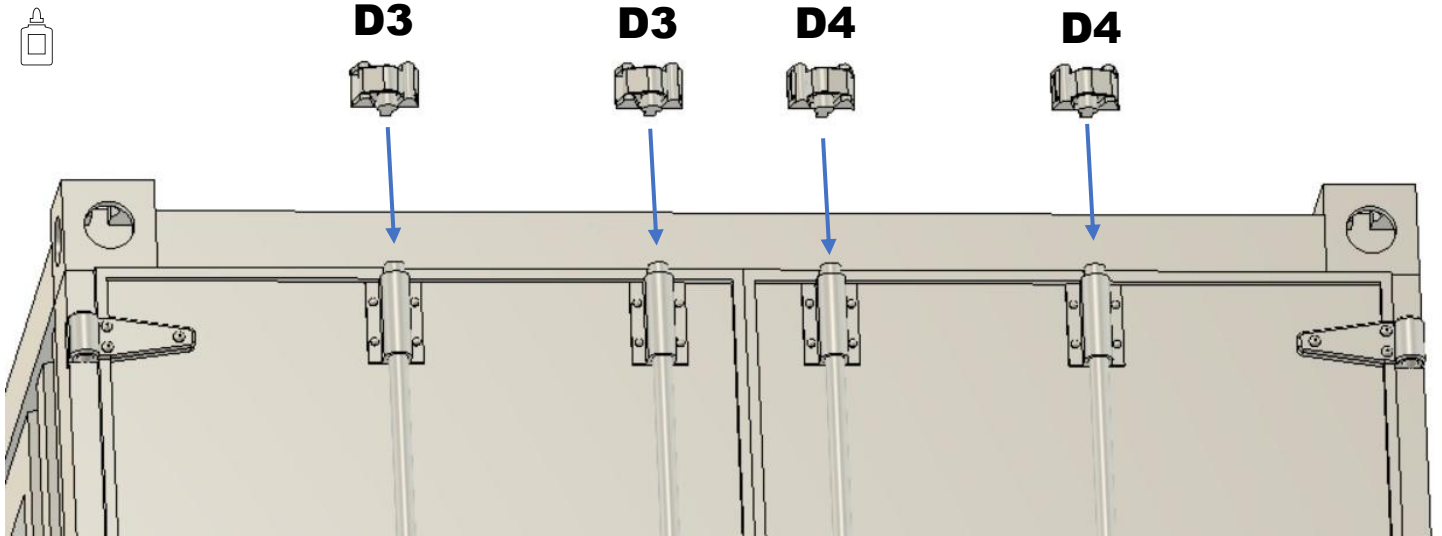


D3

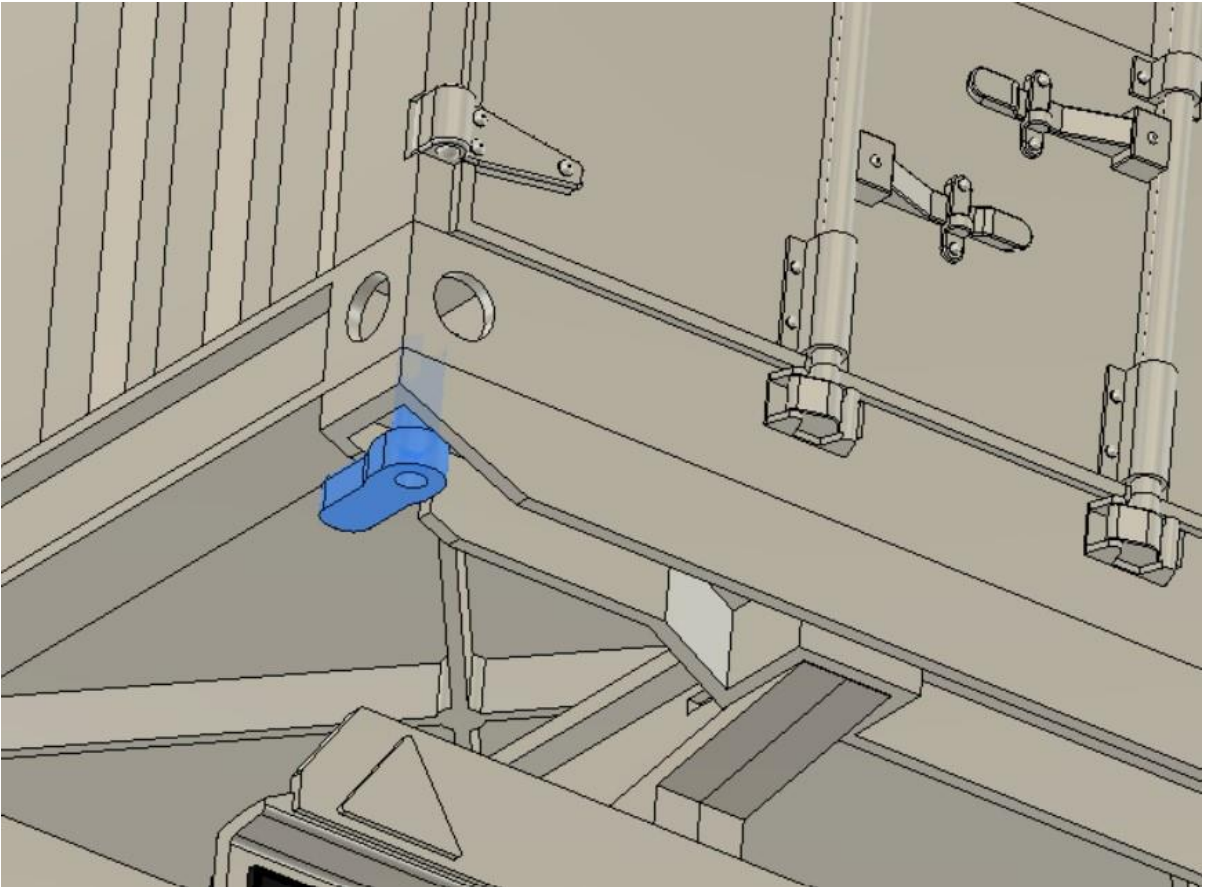
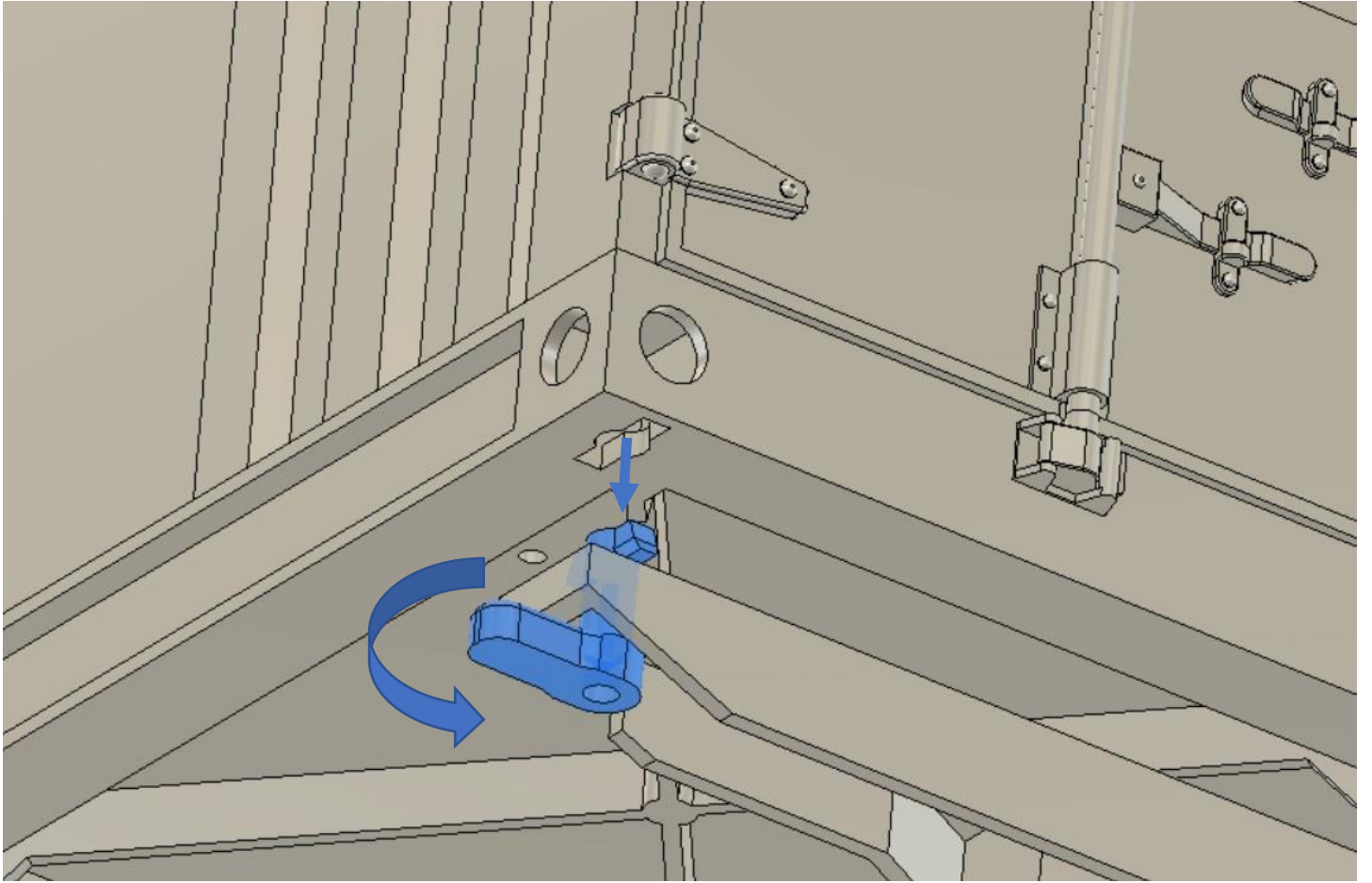


D4

4x



Place the finished container on the thorns and secure by turning the pin. In case of use of two containers, the front is oriented through the door to the front.



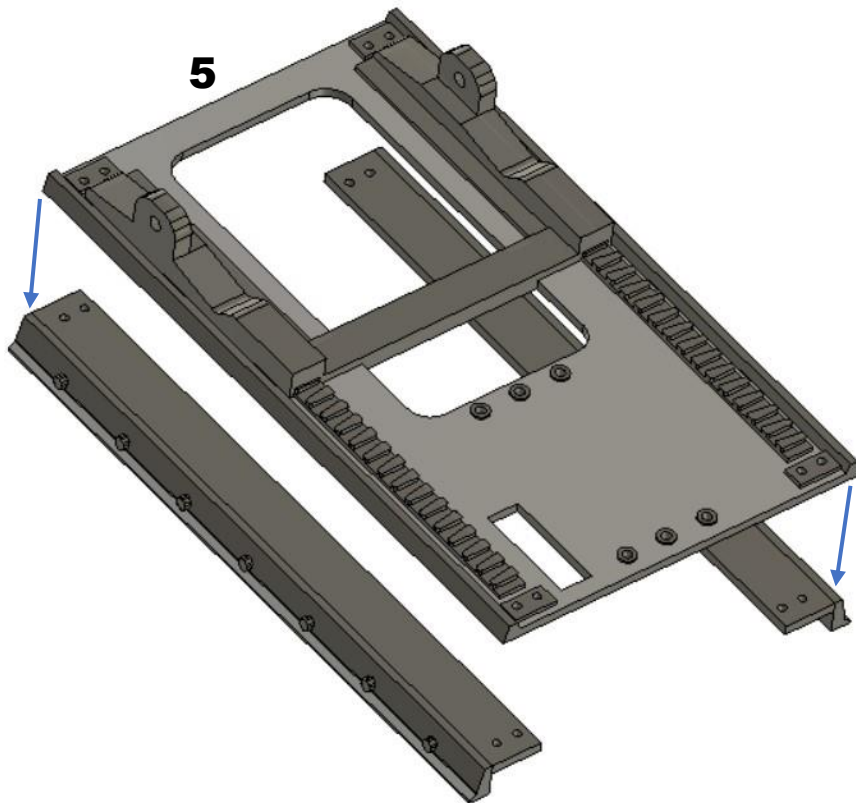
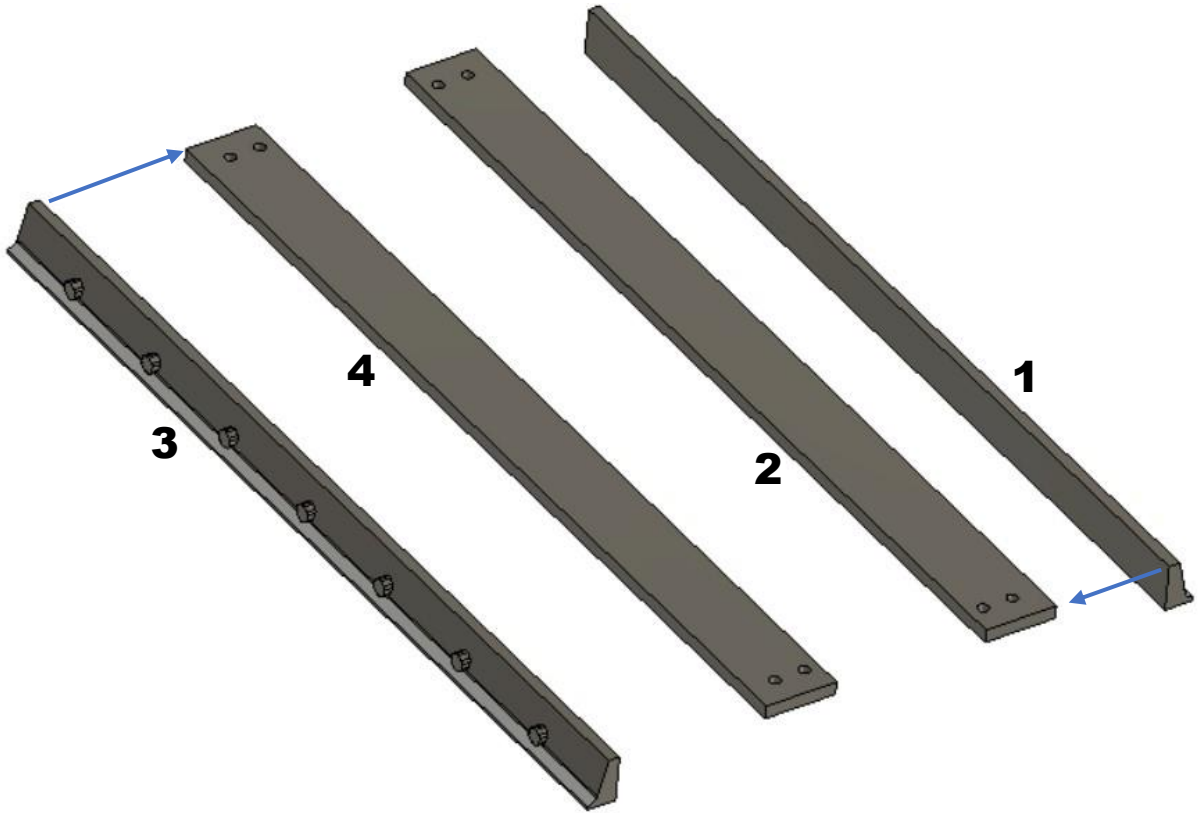
If you only want to print the floor, use the parts from the "Flooring" folder.

These parts do not contain printed numbers and screw holes.

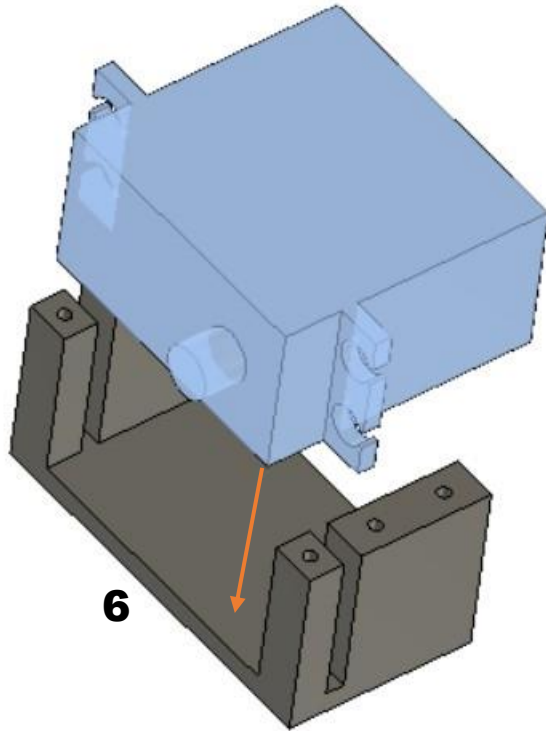
If you want to carry a tank on a semi-trailer with flooring, it is necessary to glue something non-slip to the floor.

The semi-trailer with flooring is designed to take the tank and, however, the greatest load is directed at the axles.

Turntable

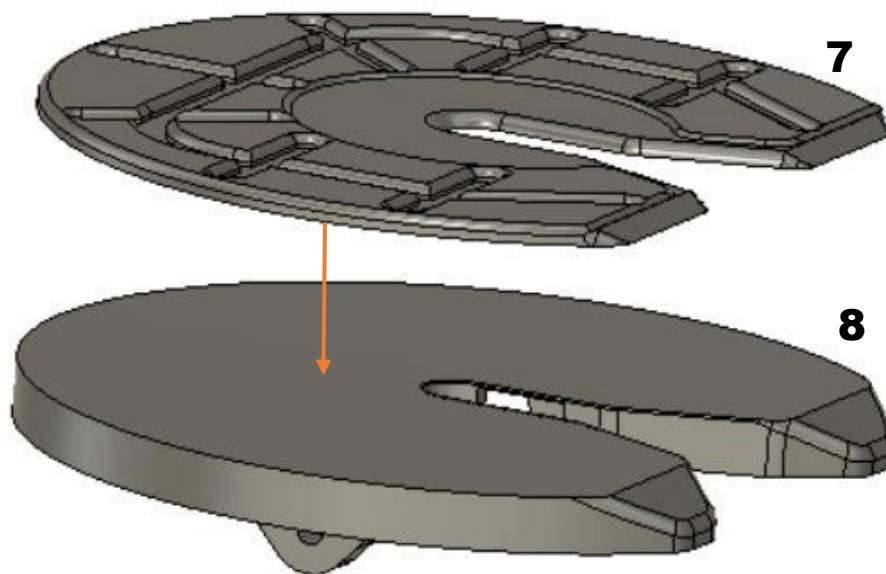
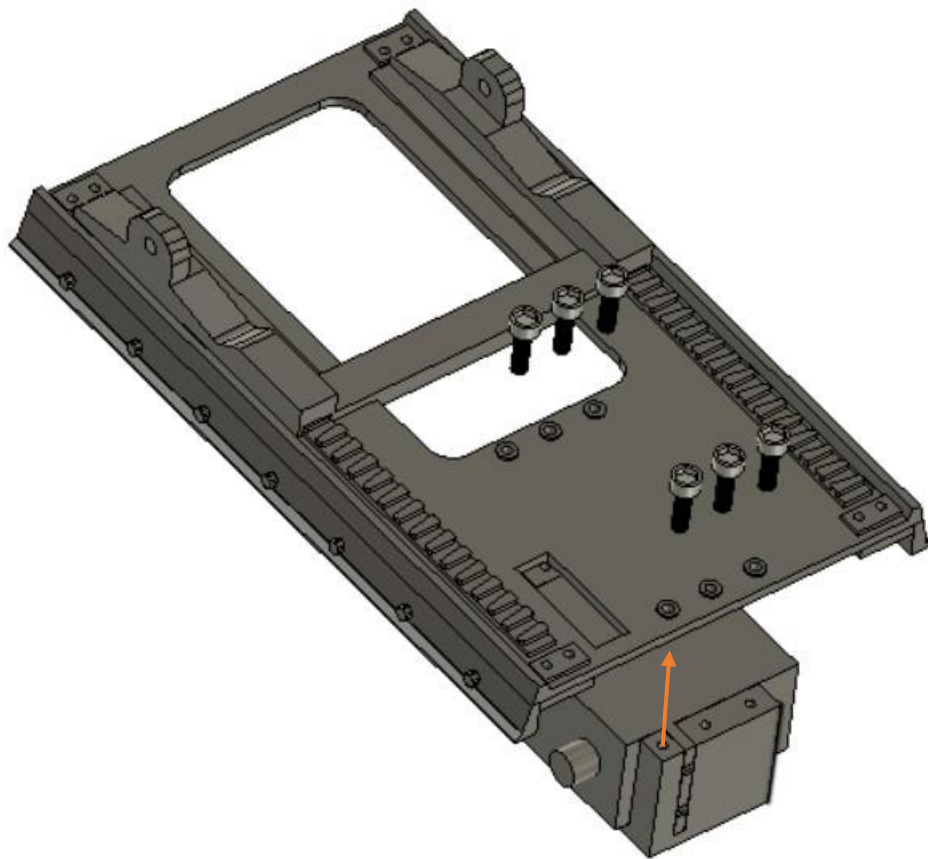


Sharpen

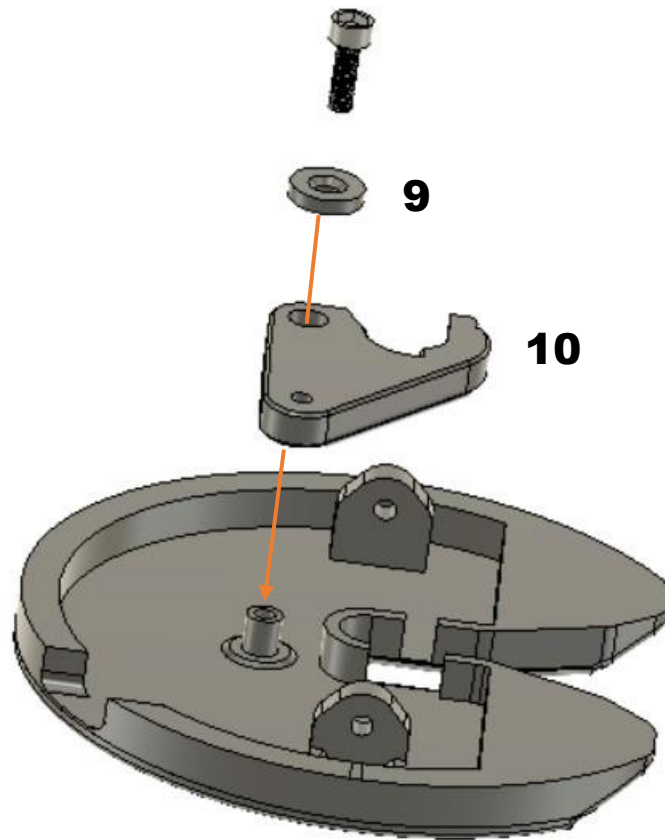


Place a sufficiently long upward lever on the servo. Servo must be in neutral.

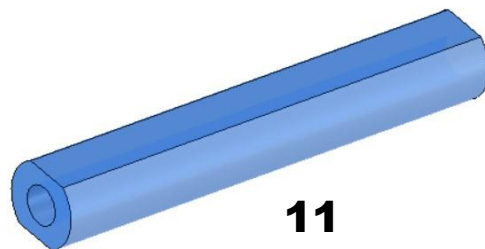
M2x10



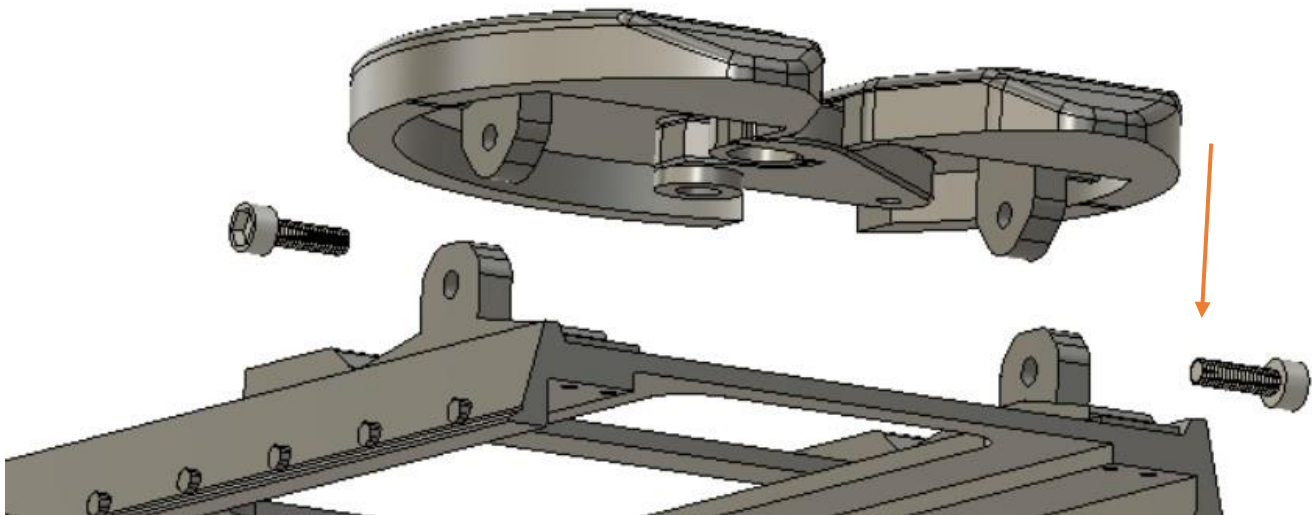
M3x6



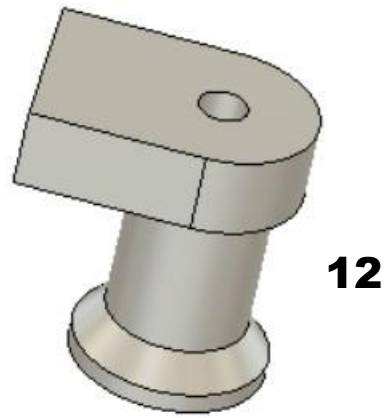
Connect the handle. You can use printed (part 11) fitted with two worms + guides.



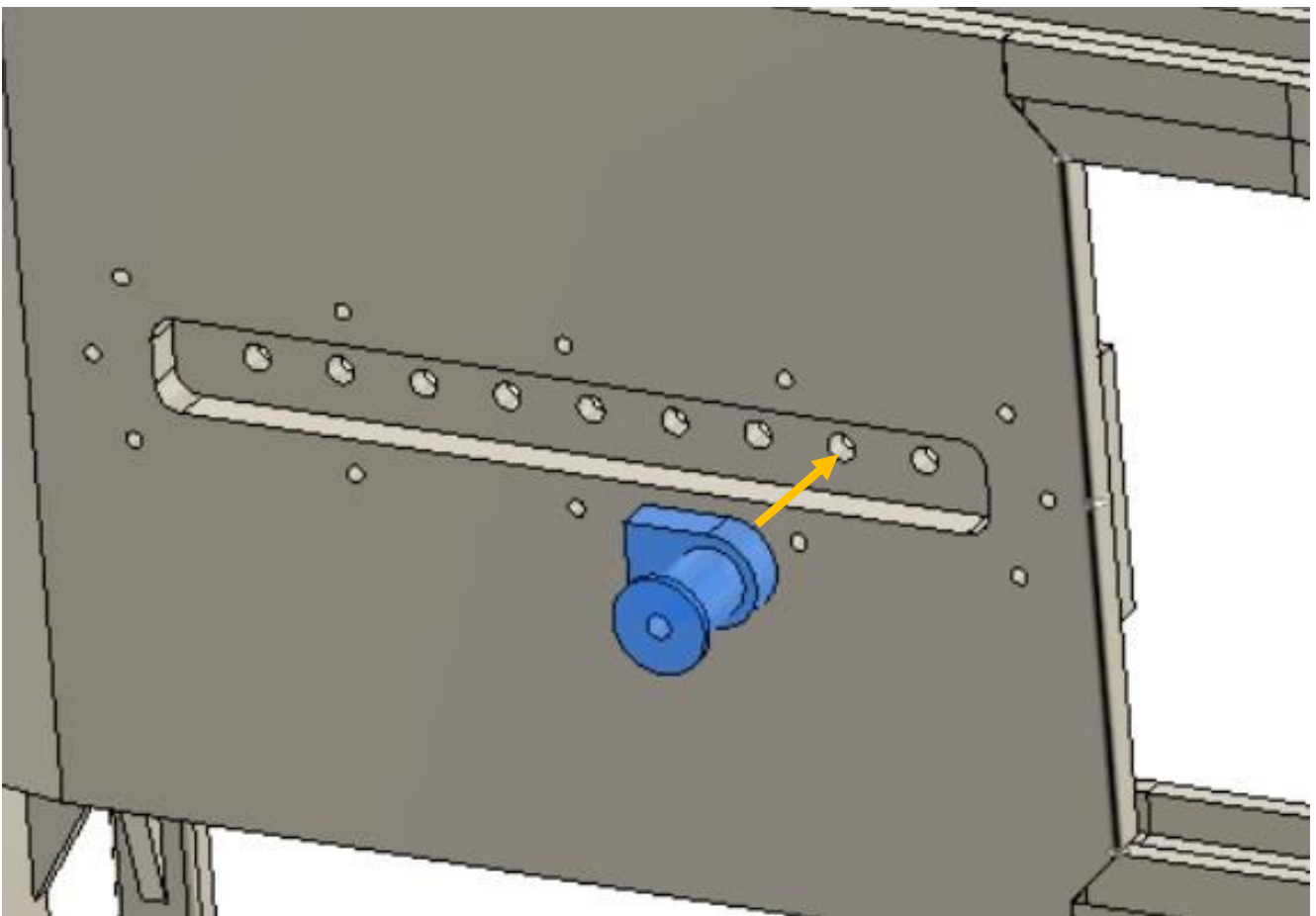
M3x10



Replace the complete turntable with an existing dummy (in the case of AstralienTruck) and secure the 8x M2x10 screws.



M3x10



And it's done!

Get the lighting up

Set the stops on the turntable servo.

(if you decide to use the light module I designed, you can find the instructions <http://www.mlmodel.webnode.cz>)

Enjoy the model 😊