

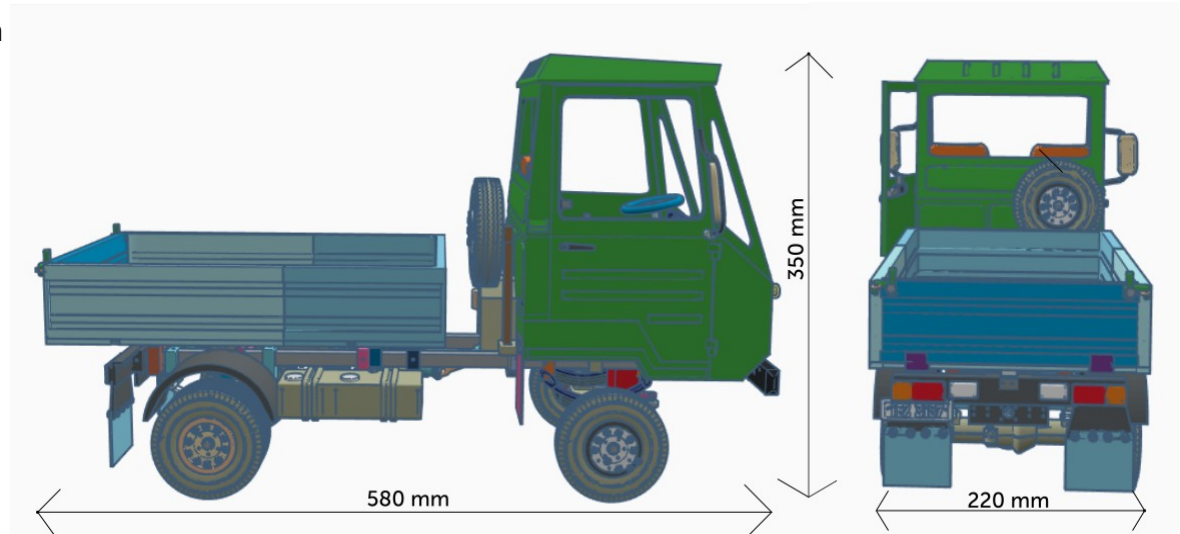
# IFA Multicar M25

by Tamimi Team



The project is inspired by a Germany made vehicle IFA MULTICAR M25. Many prototypes has been made and the final M25 was produced in more then 100,000 units. The vehicle used a 33 kW (45 PS) diesel engine. Simple, yet a versatile small utility vehicle. made in various variants, such as flatbed, snow plow, tiny excavator, 4x4 etc.

We love cars and RC models so we decided to make a model of this car. Its mostly 3d printed, you need to buy just a few things such as motor, esc, battery, reciever, some M3 and M2 screws, few bearings, tires and aluminum profile 10x10mm. Shopping list is included within download bundle. Multicar is made with a flatbed, lifting mechanism is optional and its included in files. **NOTICE – recommended and tested motor N20 for lifting mechanism is not very strong, works well without heavy payload, i! Lifting heavy payload is not tested and its at your own risk!**



## Parameters

**Lenght:** 580 mm  
**Width:** 220 mm  
**Height:** 350 mm  
**Weight:** 2200g PLA (depents on print settings)



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## Requirements

Printing is very simple, requires FDM 3d printer with min. build volume of. 210X210xZ-200mm, default 0,4mm nozzle, slicer software such as Simplify3D(recommended) CURA or any favourite software. You will need basic PLA, optional is transparent pla for lights. You'll also need screwdrivers, superglue and for final assembly M3 drill (basic lithium battery screwdriver with M3 drill bit work well).

## Print settings

There are two folders, first named SIMLIFY3D with simplify3d factory file containing all the setting you need. Layouts on heatbed, processes etc. **Always adjust print setting according to your printer!**

The second folder named BASIC STL contains stl file for any other slicer. For almost everything use 2 or 3 walls, 20% infill. For transmittion gears, drivetrain and gears generally, use denser infill. **Always adjust print setting by your printer!**

**NOTE – every stl file is named with recommended print colour and if support is required** (for example [B1-black PLA with support](#)). Feel free to use whatever color you like, but we chose colors based on the original vehicle.

## Shopping list

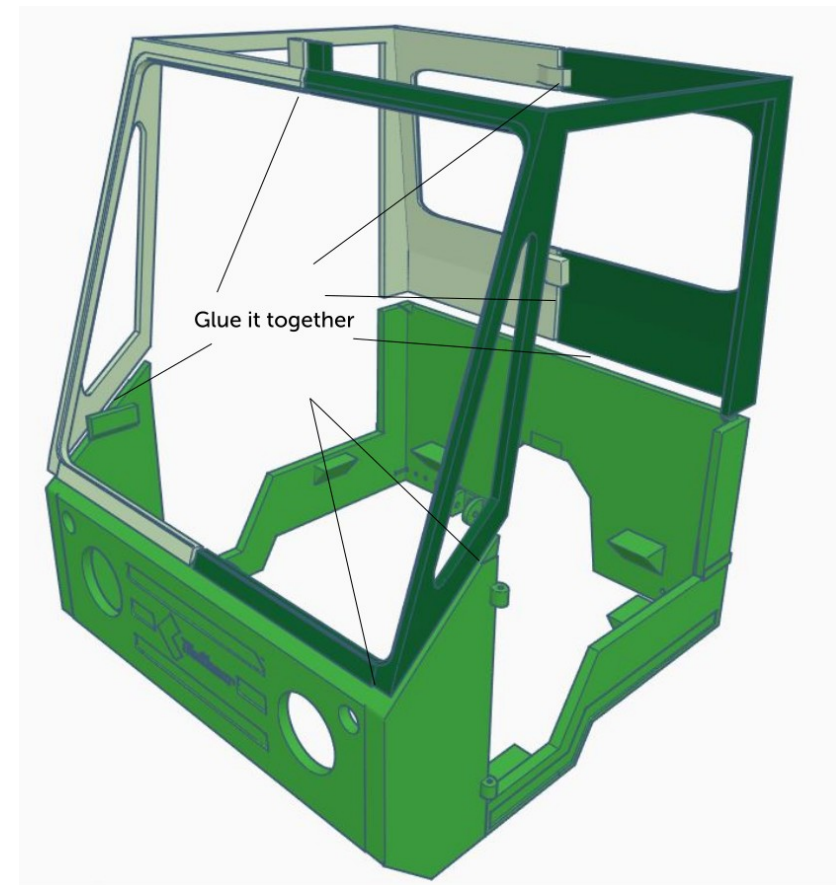
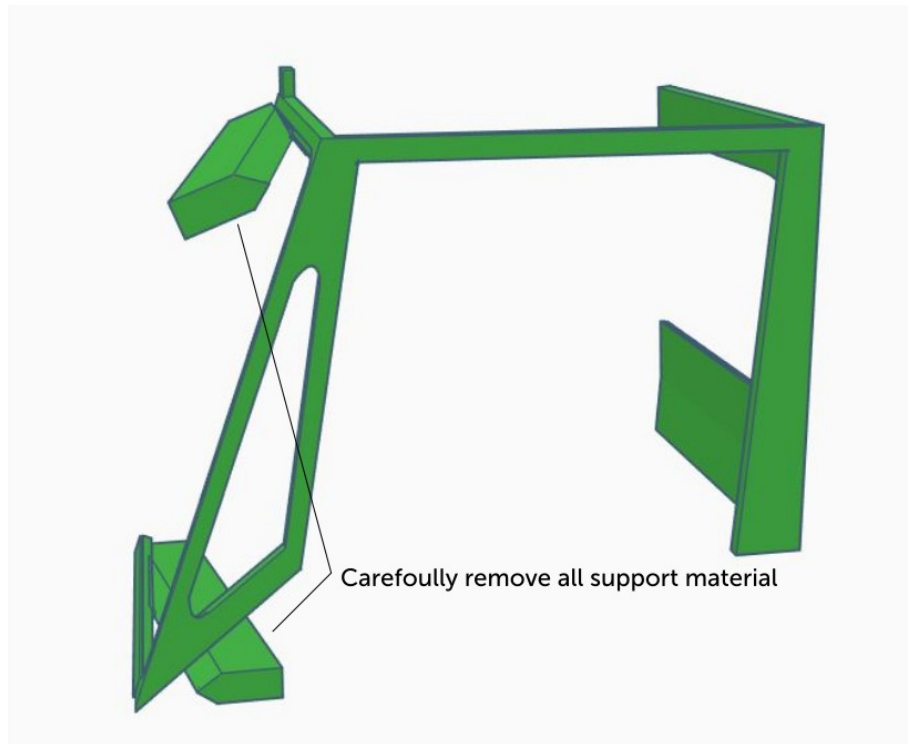
Shopping list is located in main folder, its separated file, not included inside this manual. Please check shopping list before you will start print, make sure you have everything to finish assembly. Lift mechanism is optional, so its on your choice. Recommended motor and esc work together, if you wanna use differend motor or with differend RPM, you will need to rework complete motor holder and transfer case gears.

So lets get printing and don't forget to order stuff on shopping list!

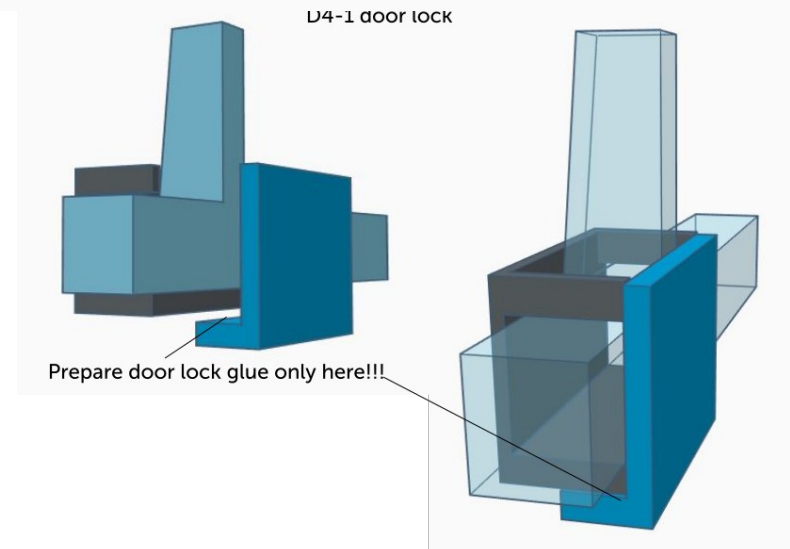
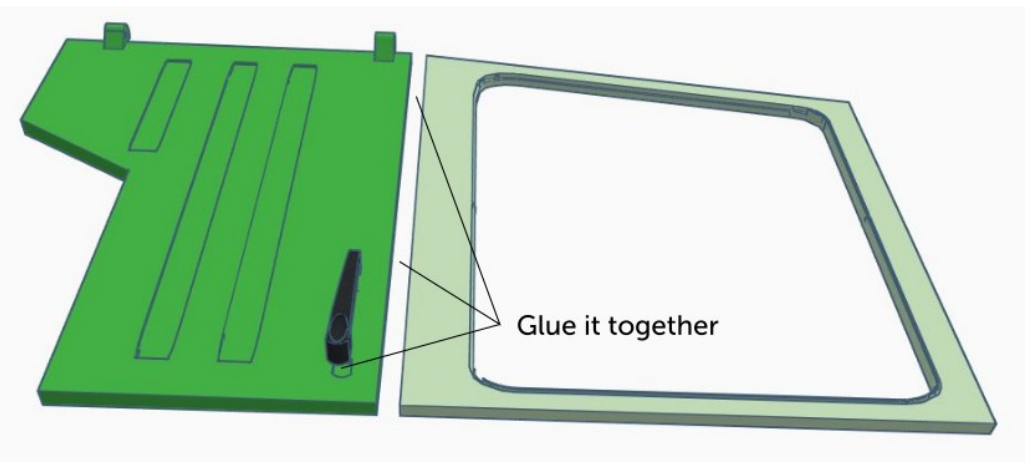
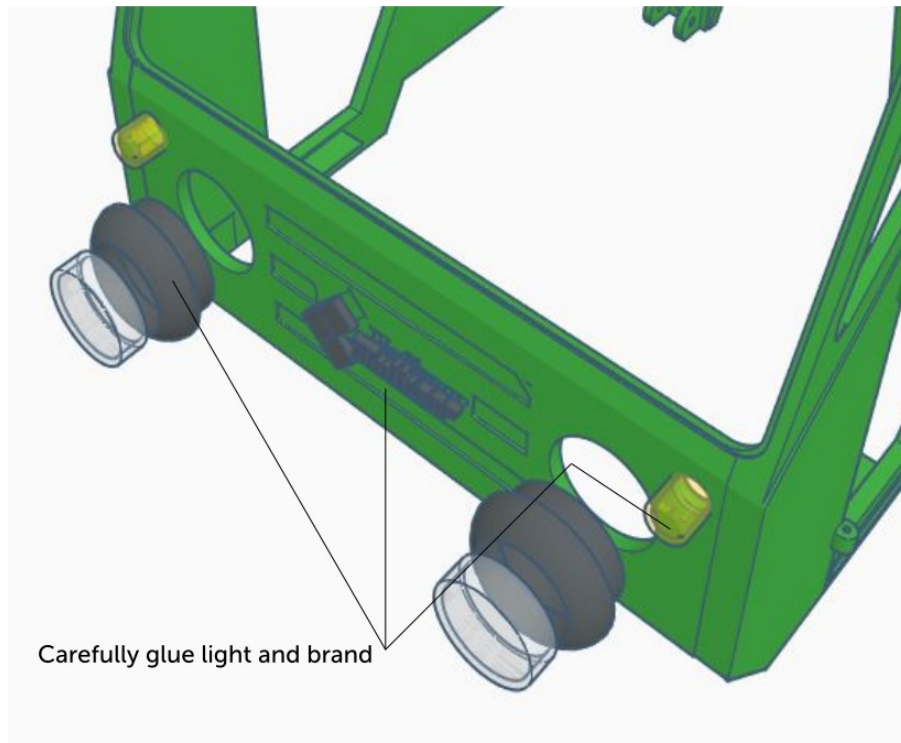
## Assembly instructions

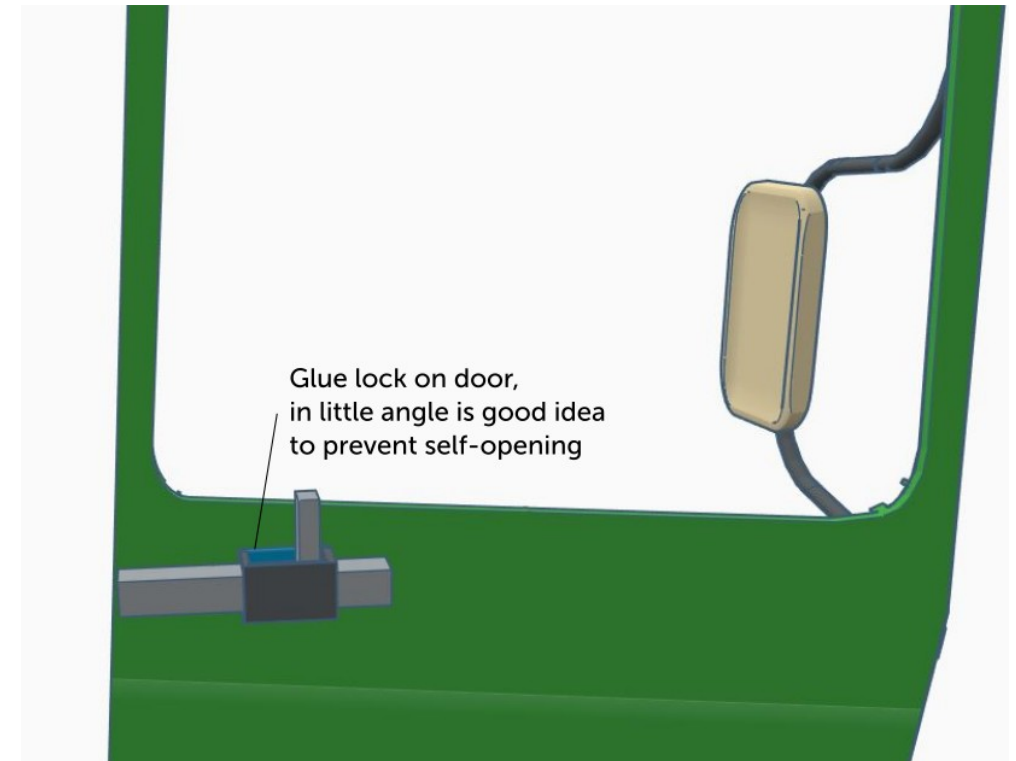
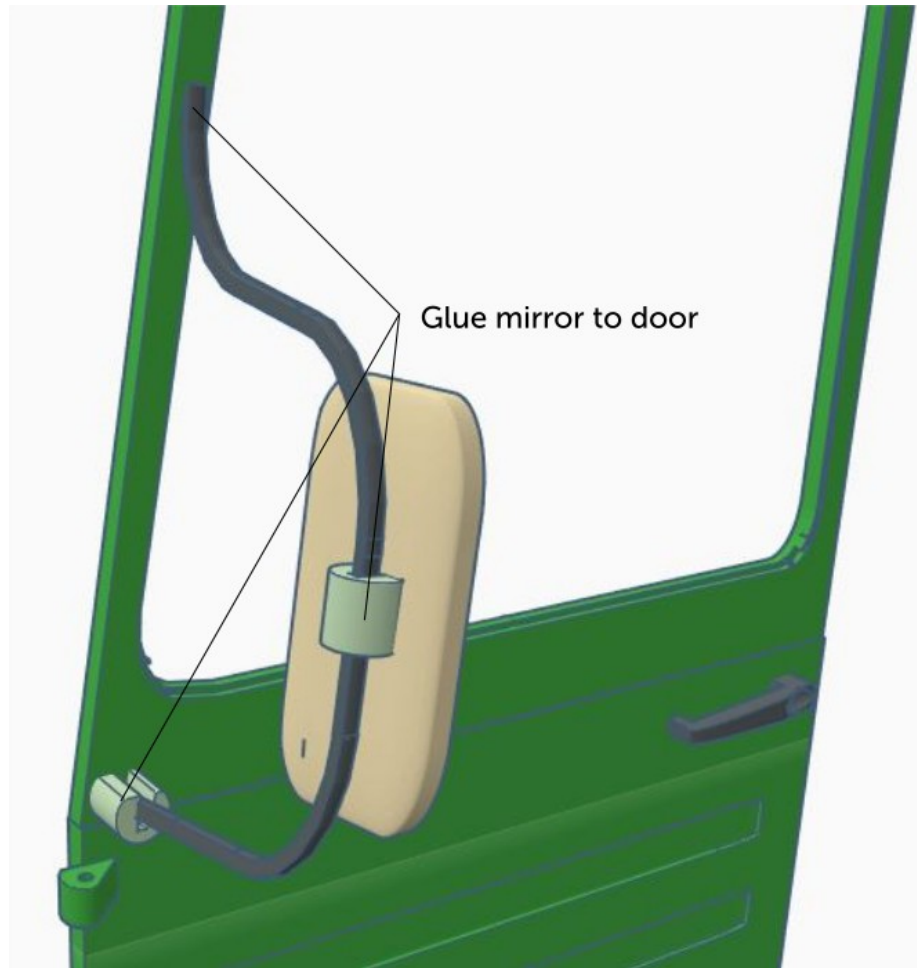
Step by step instructions, how to assemble the model. Please include the pictures as well. Use the Heading level 2 style for sections here.

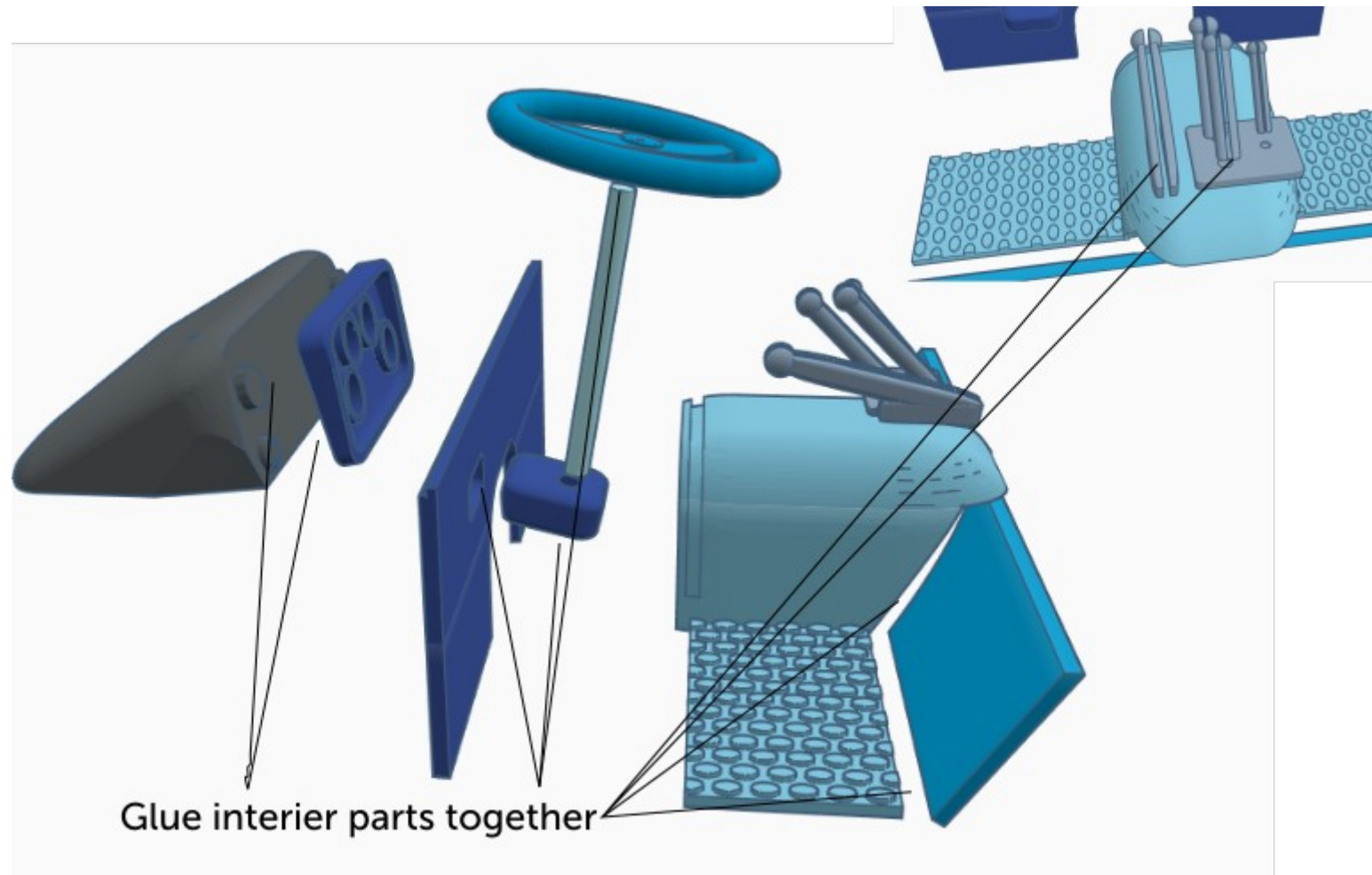
### 1. Cabin assembly

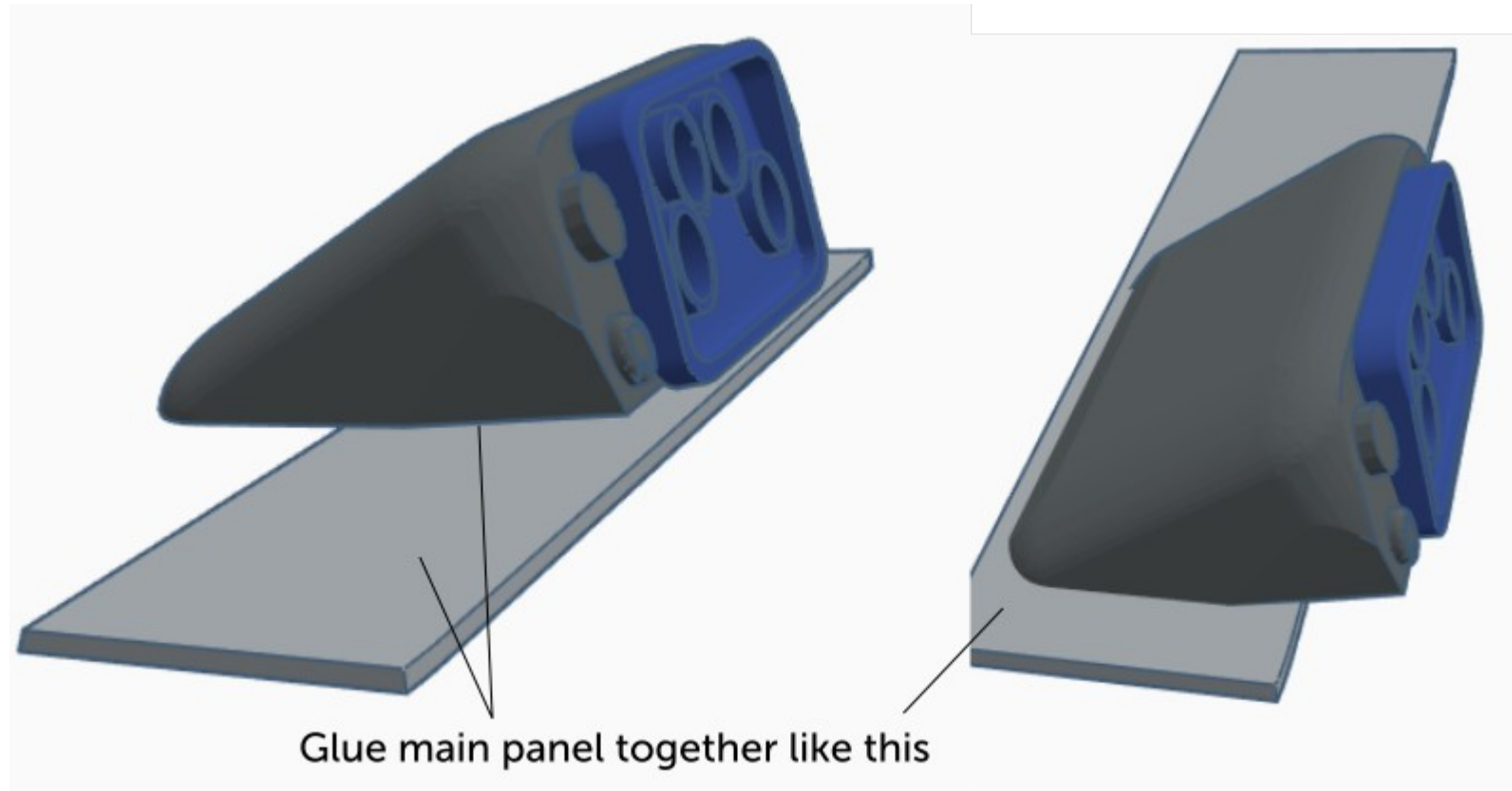




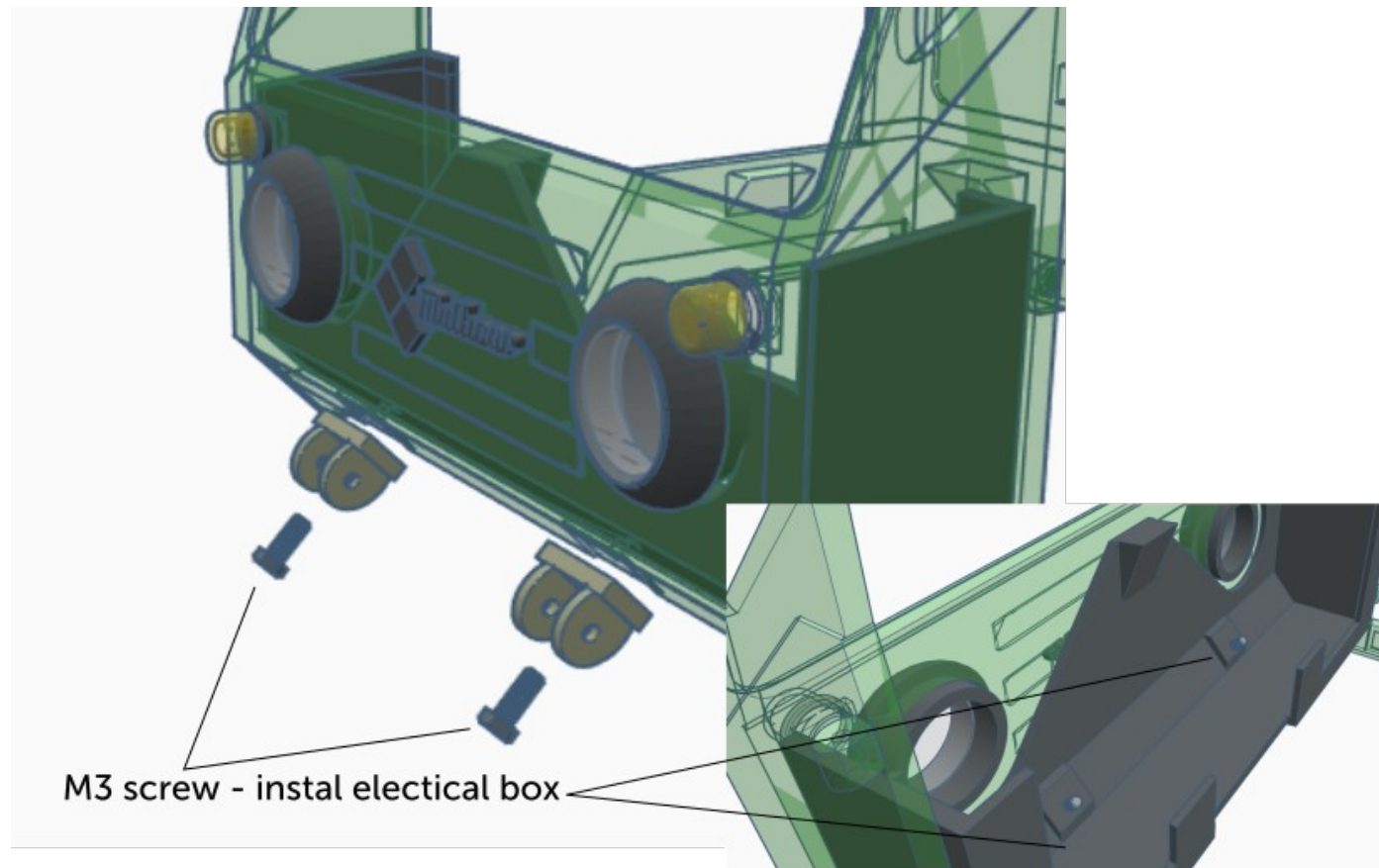


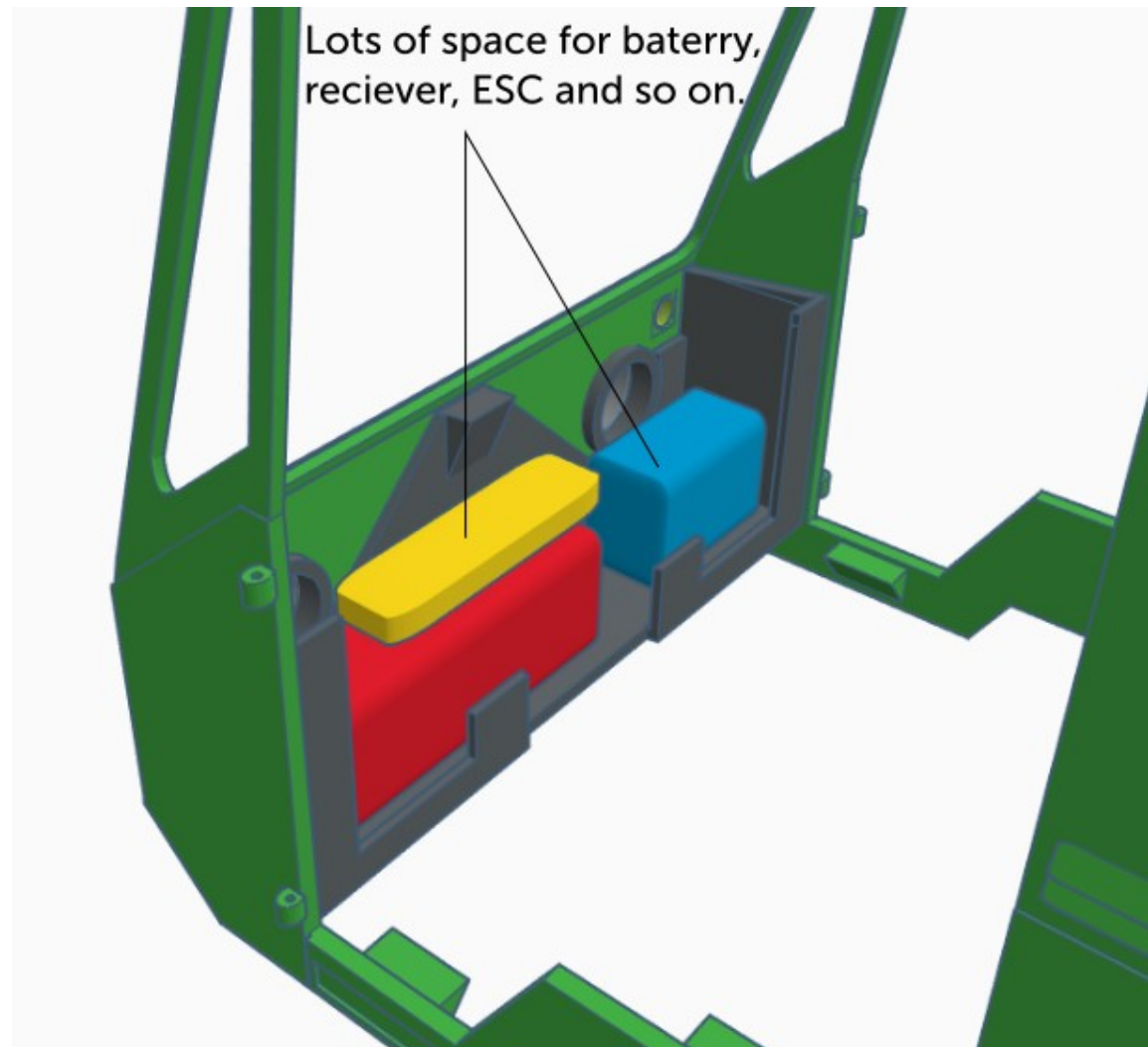


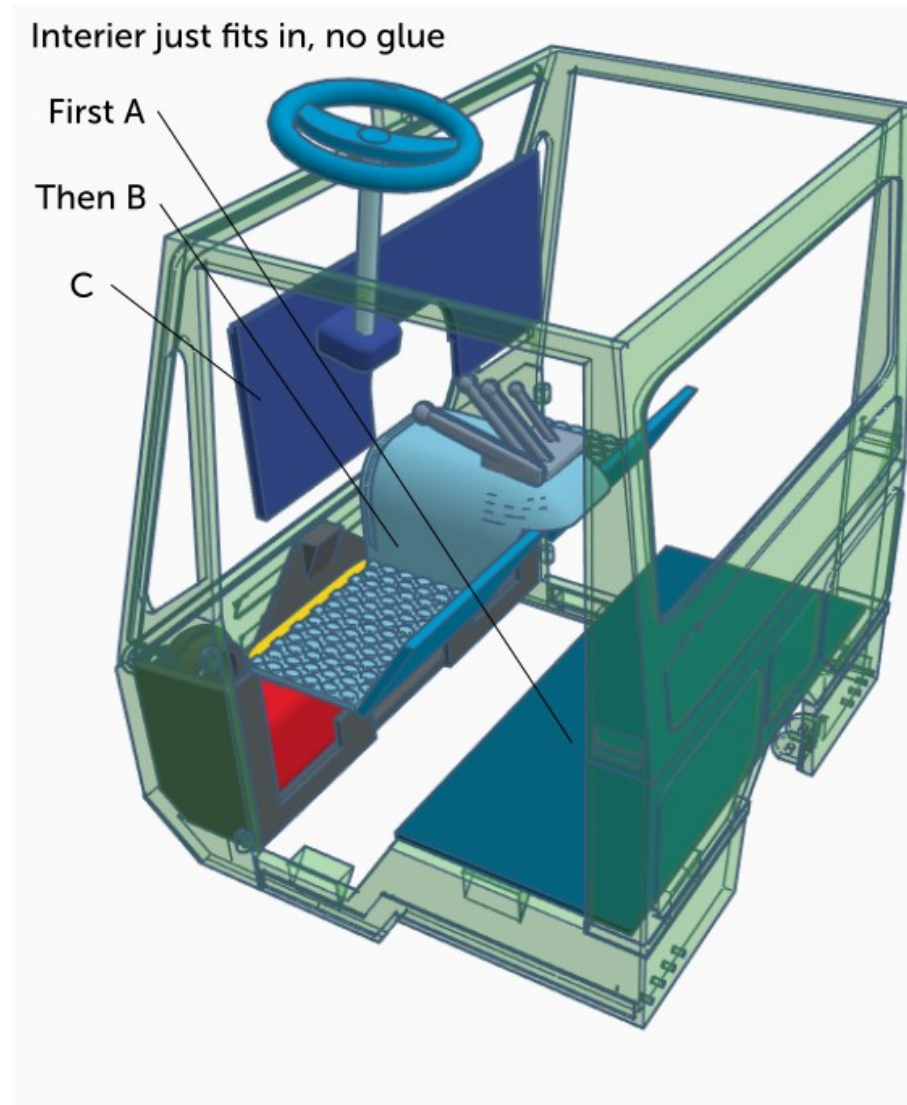


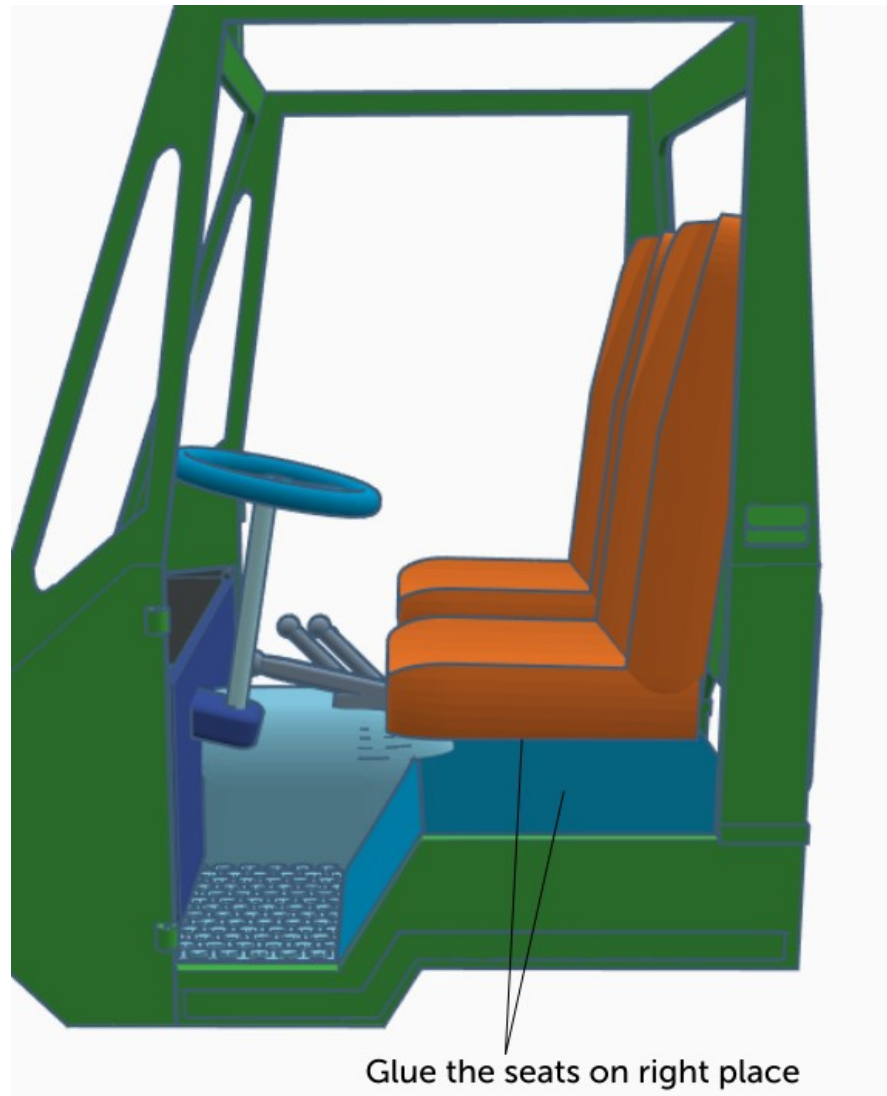




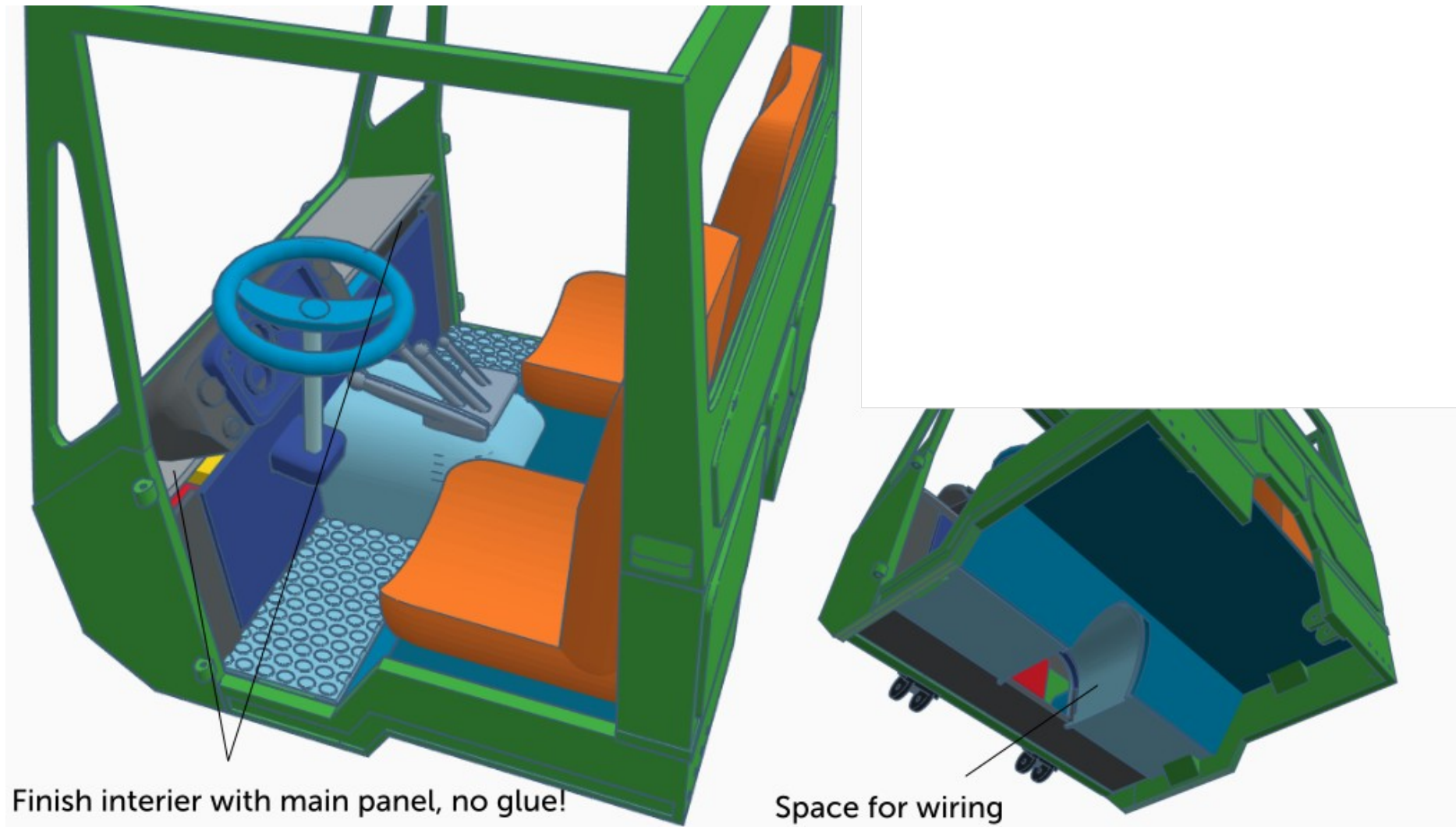


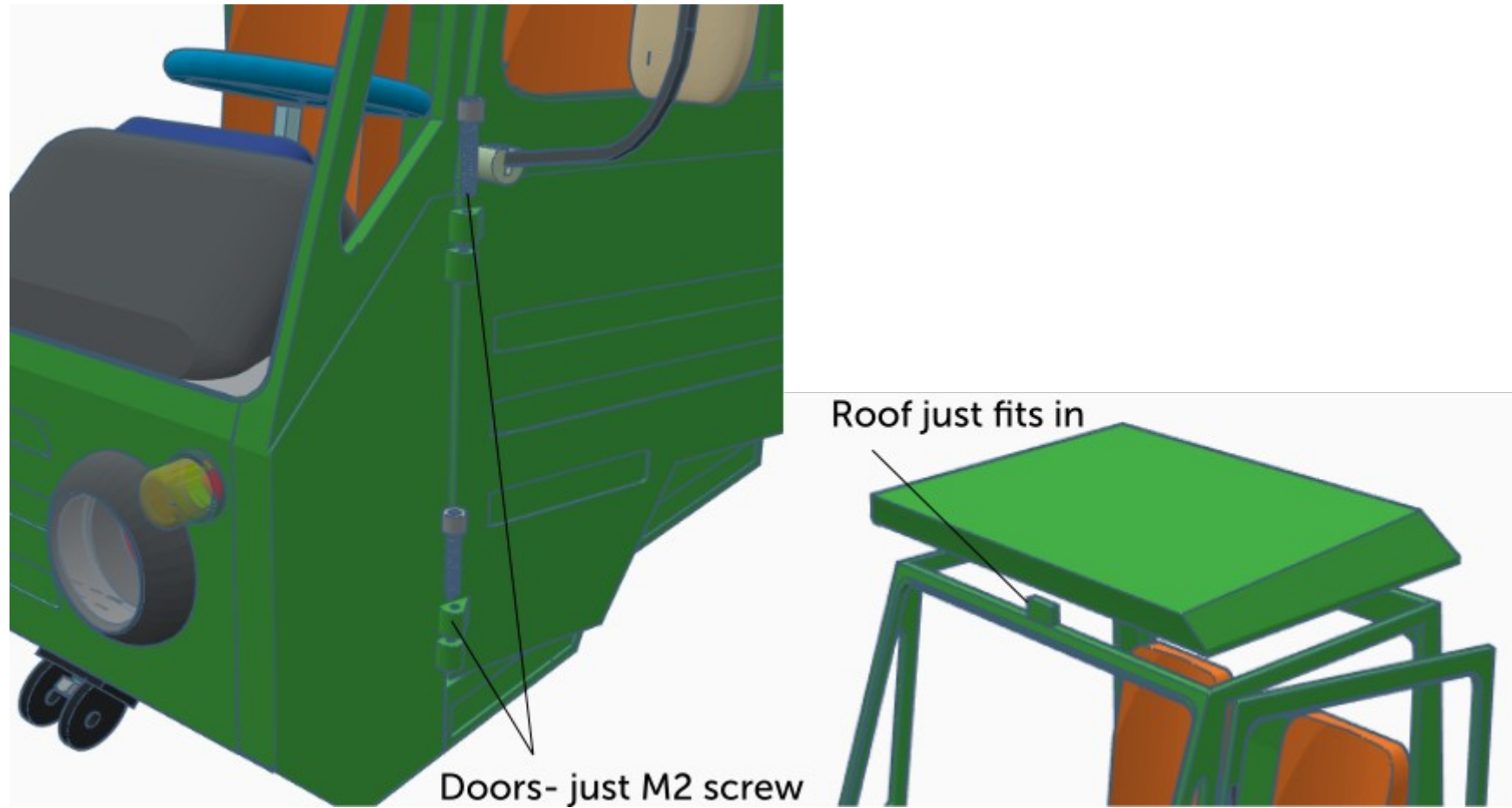






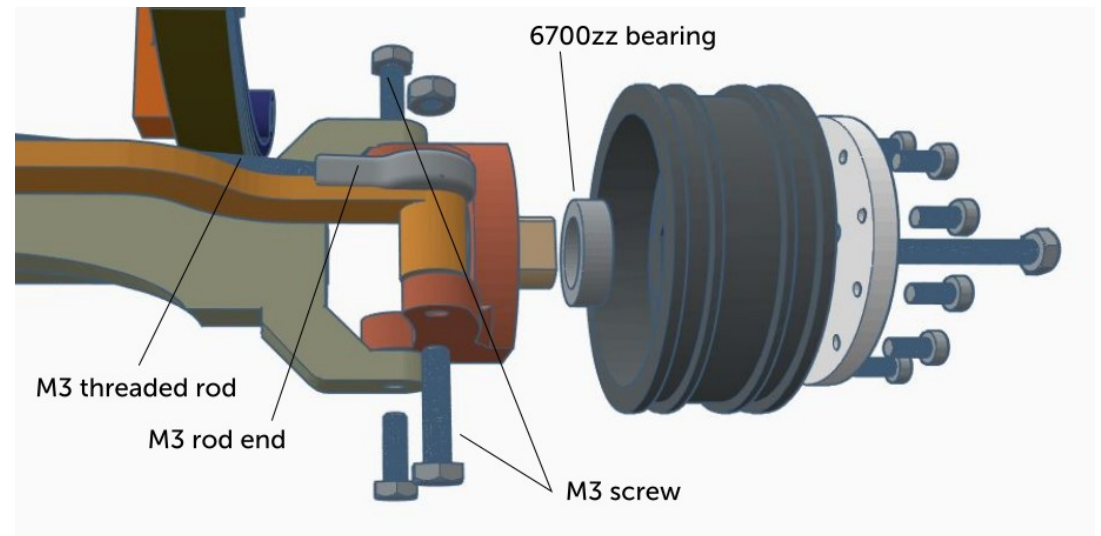
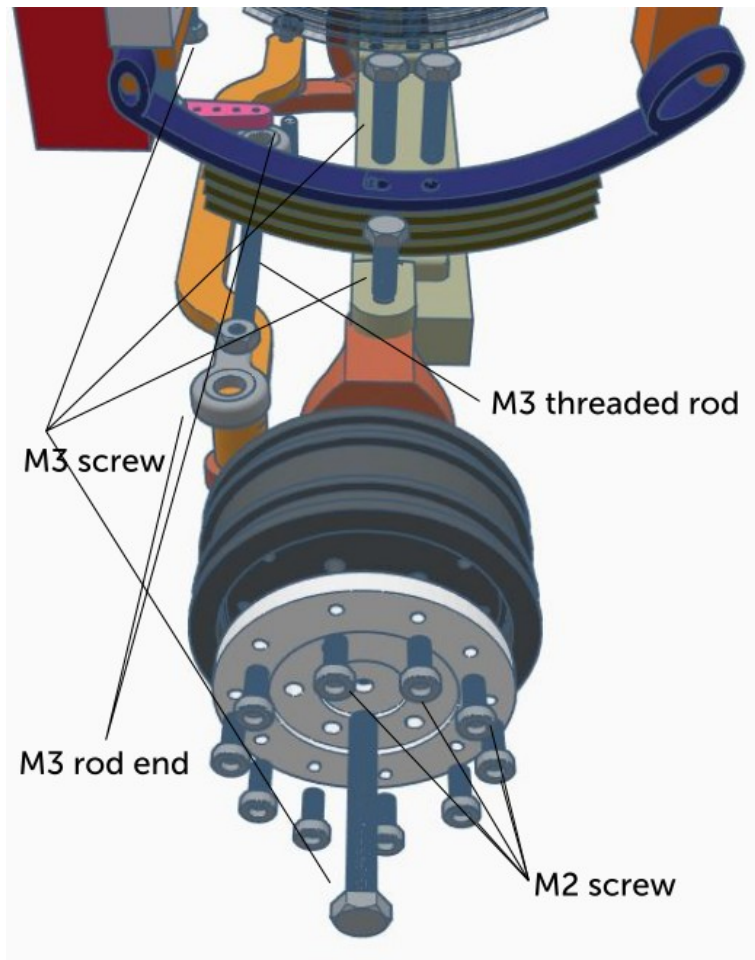




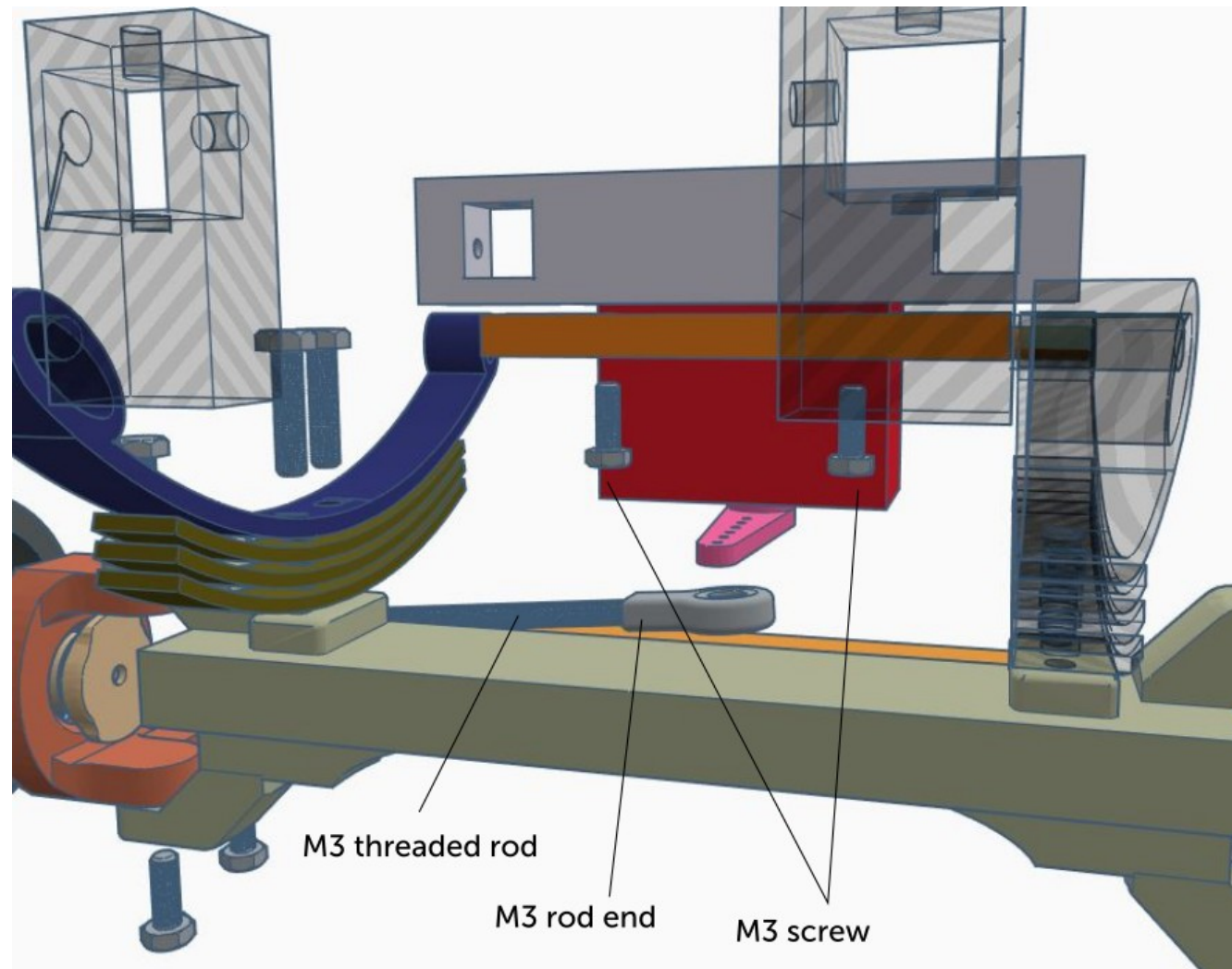


Servo holder can be mounted on frame conversely, depends on you wiring and servo, its easy to flip over at the end of build

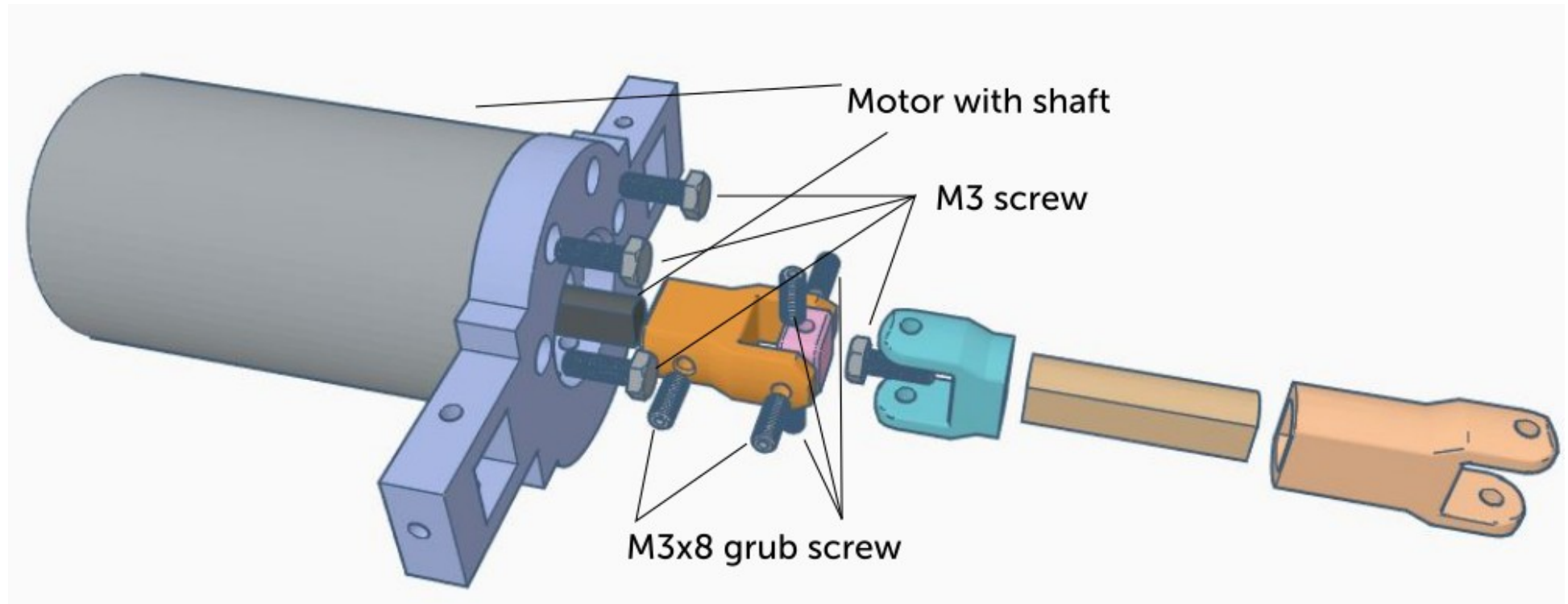


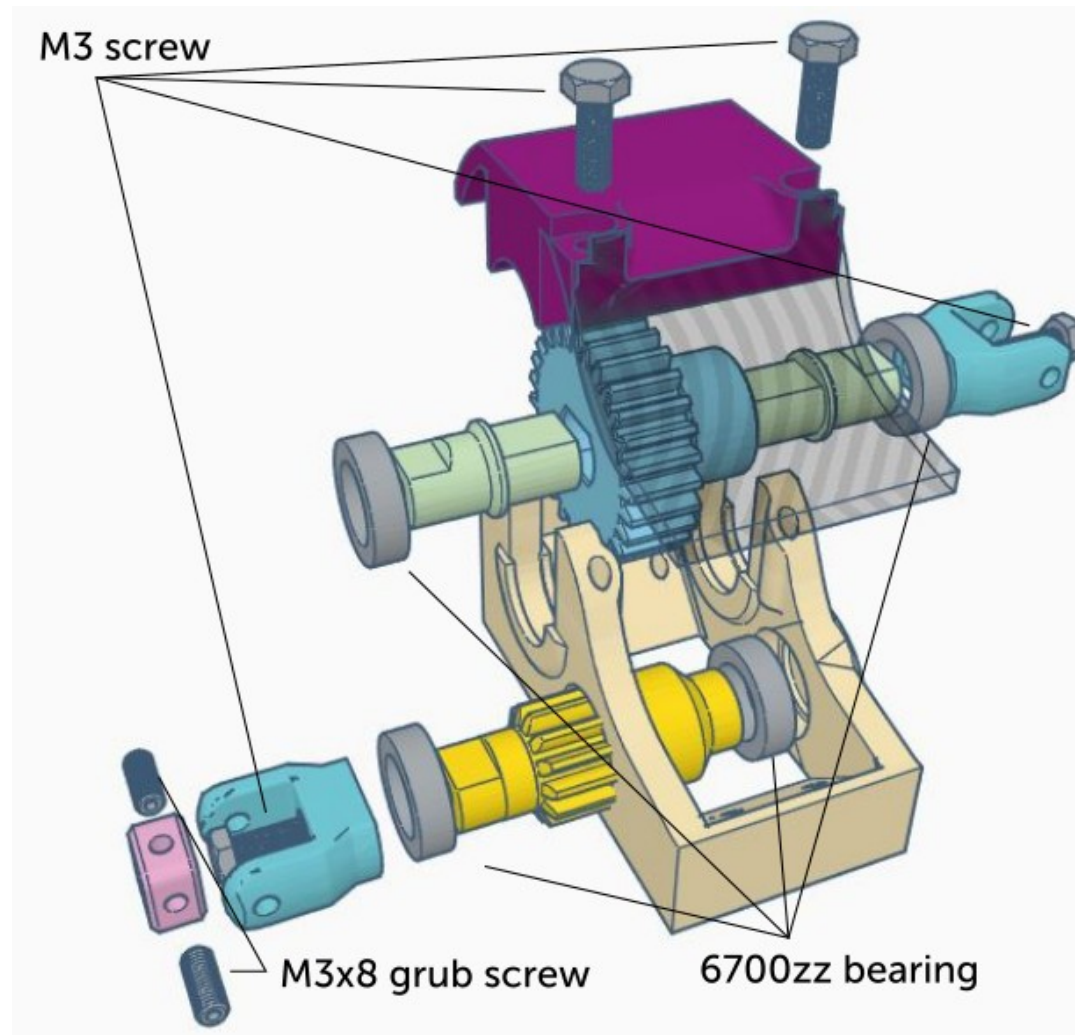


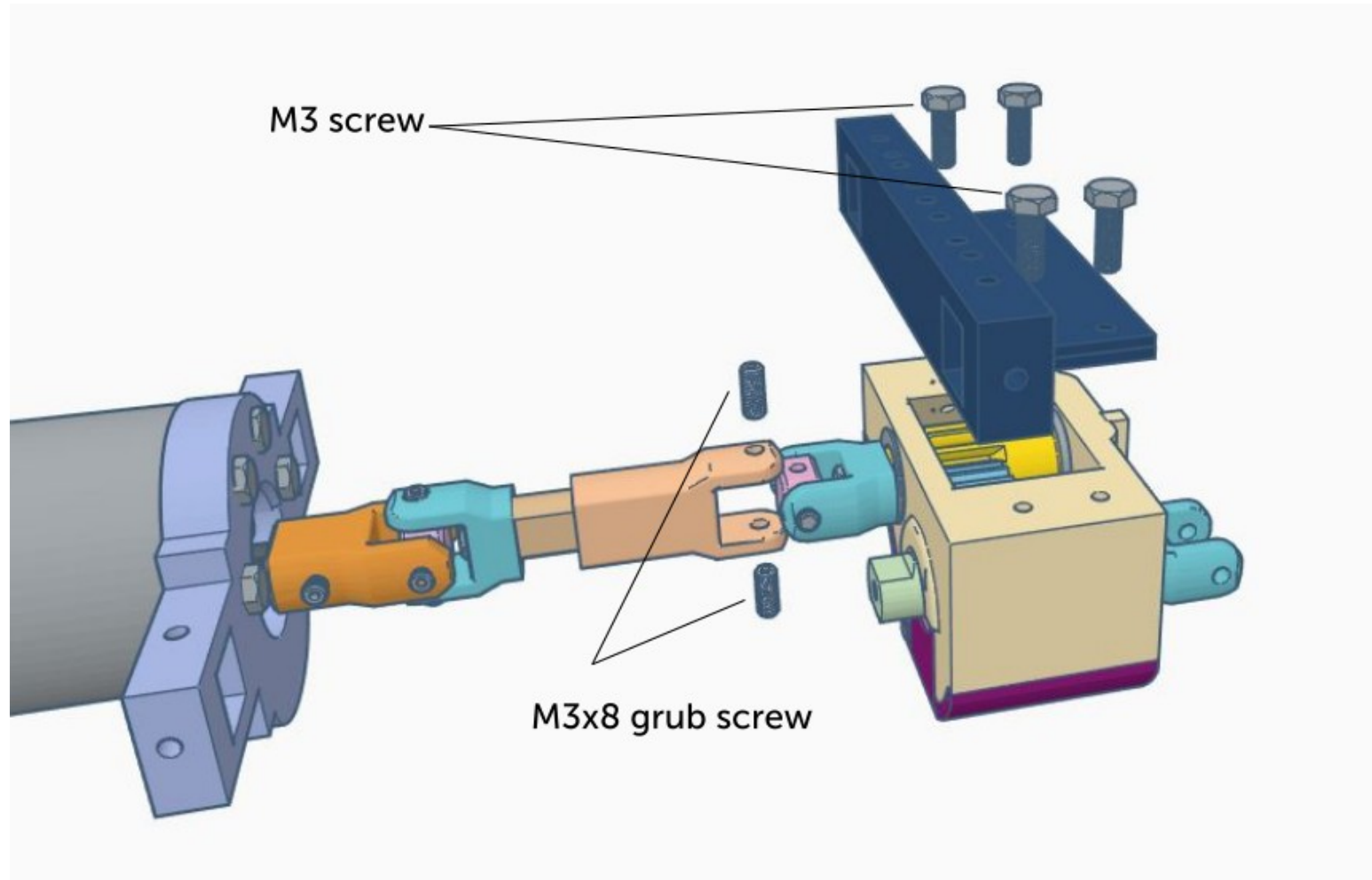




### 3. Motor and transmission

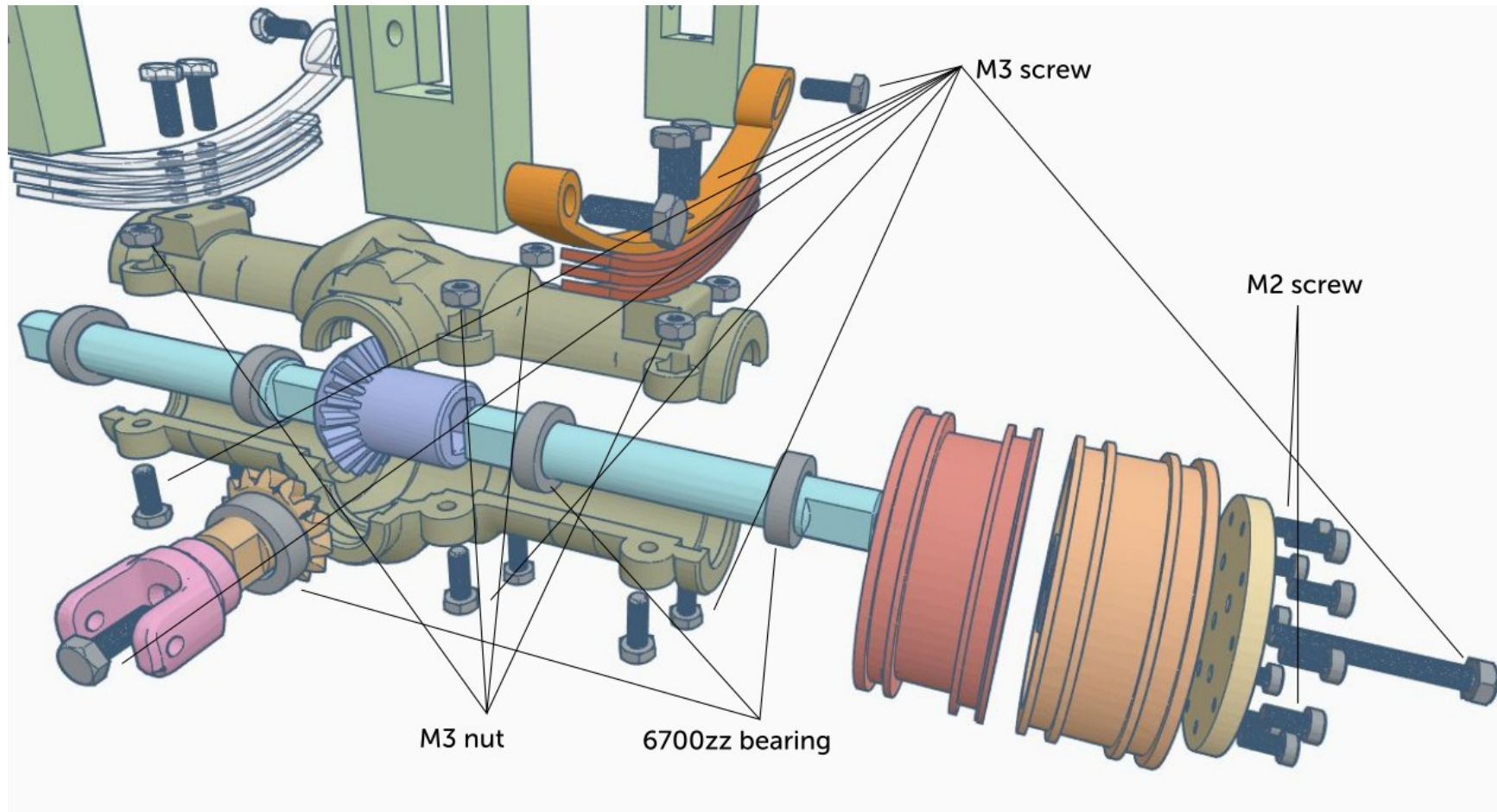


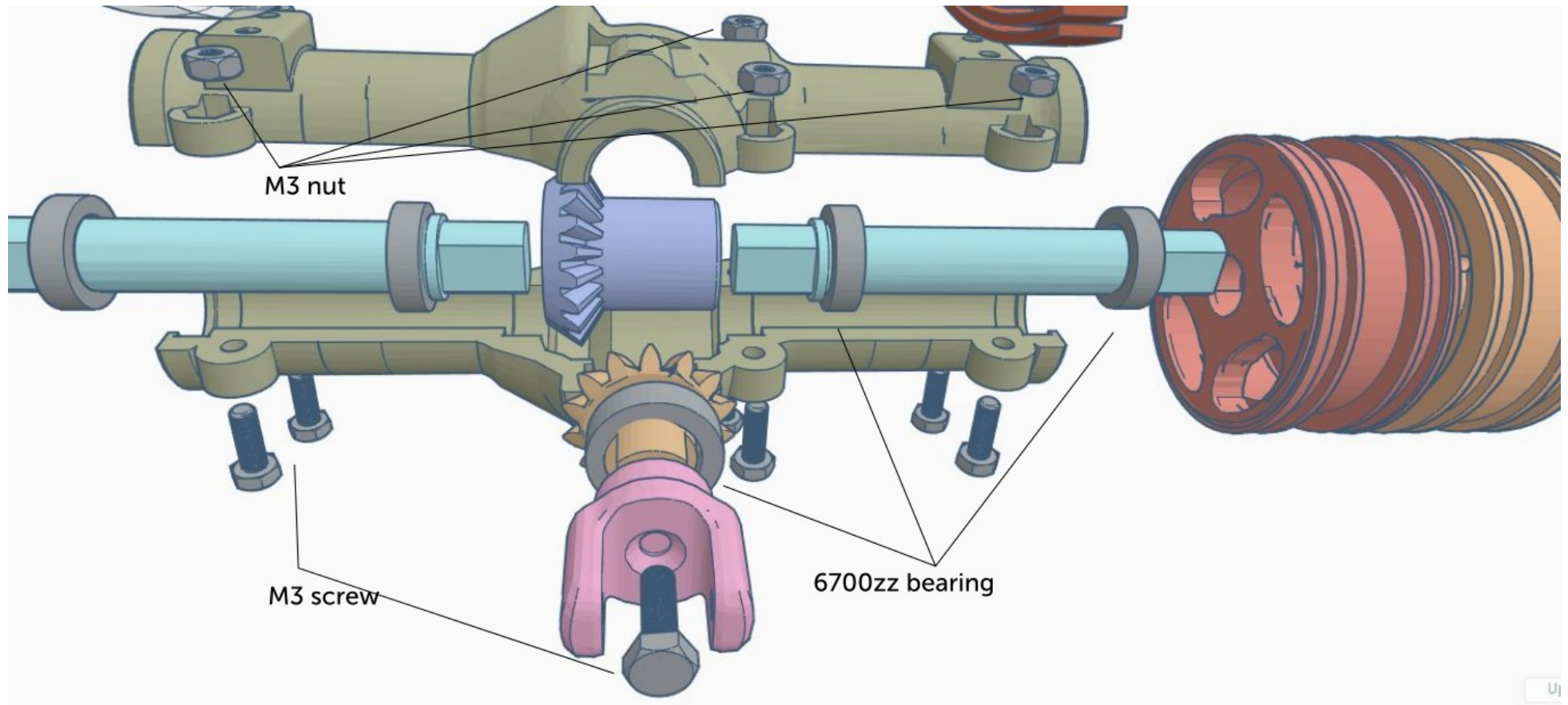


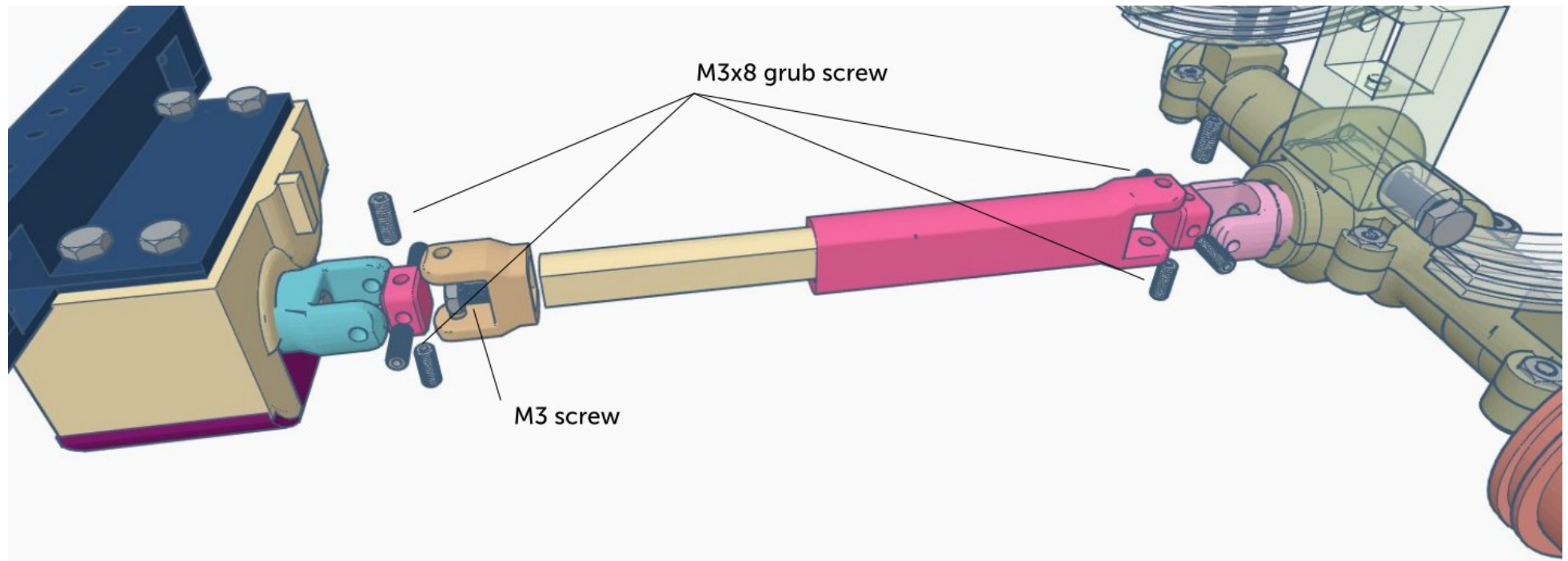




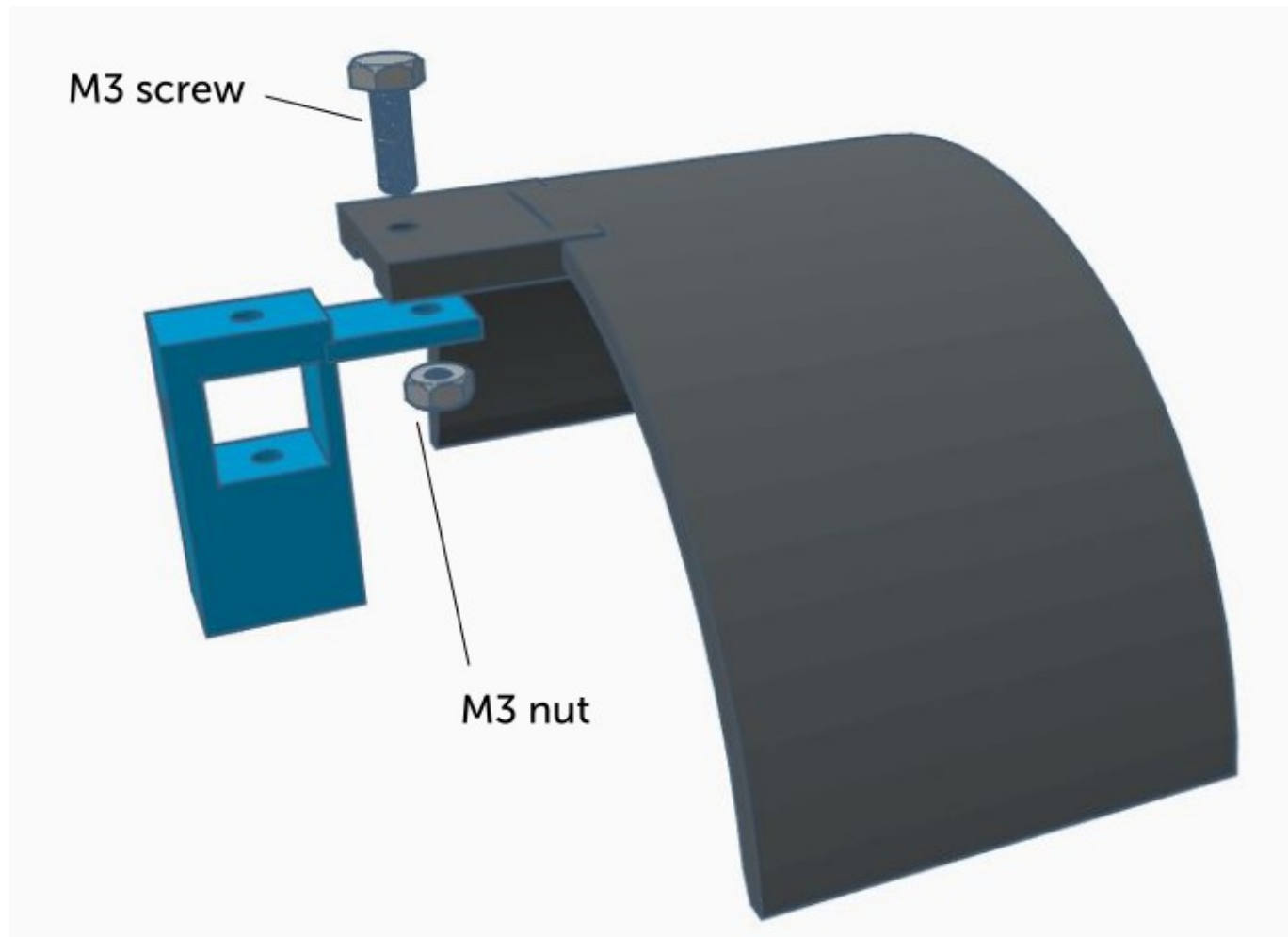
#### 4. Rear axle





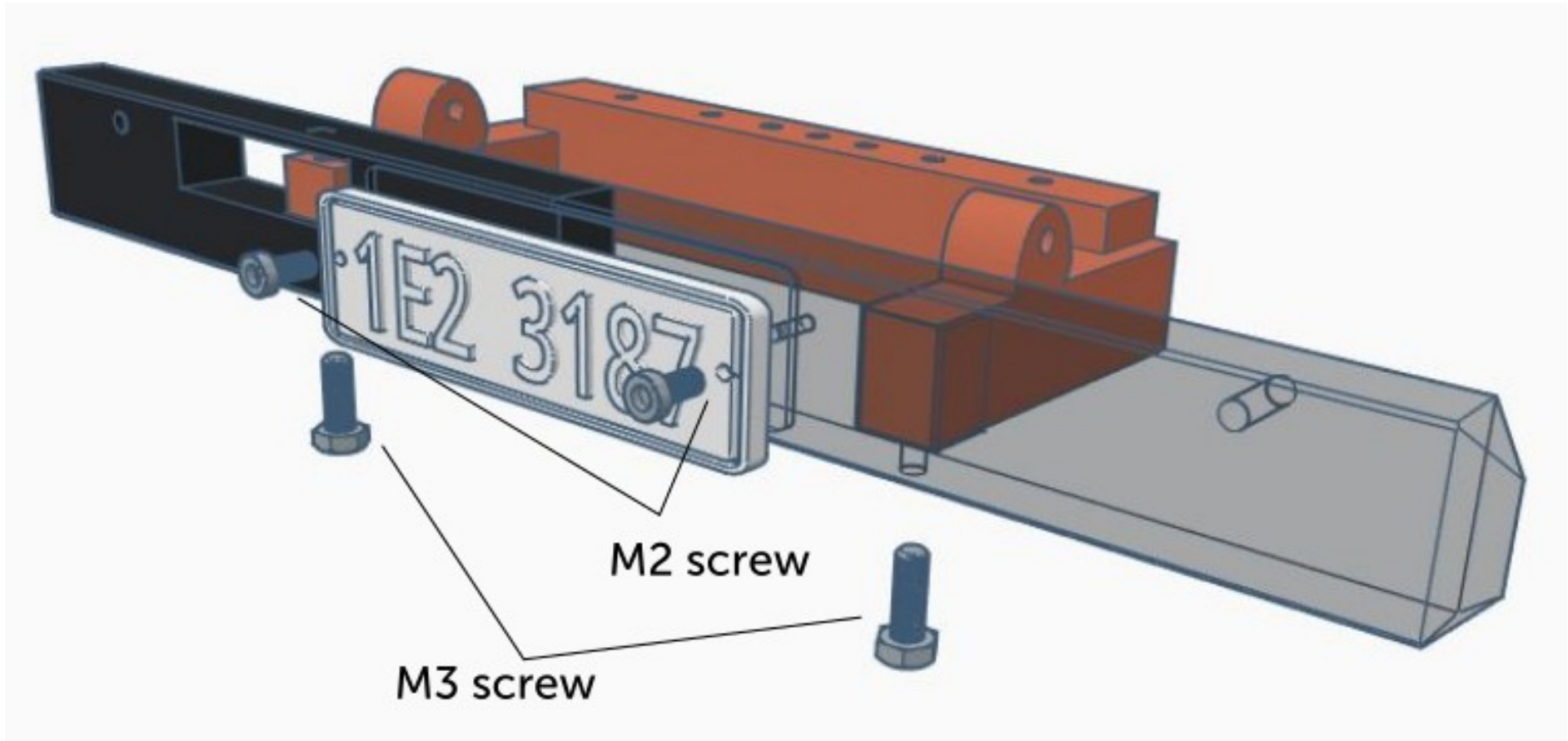


## 5. Fenders

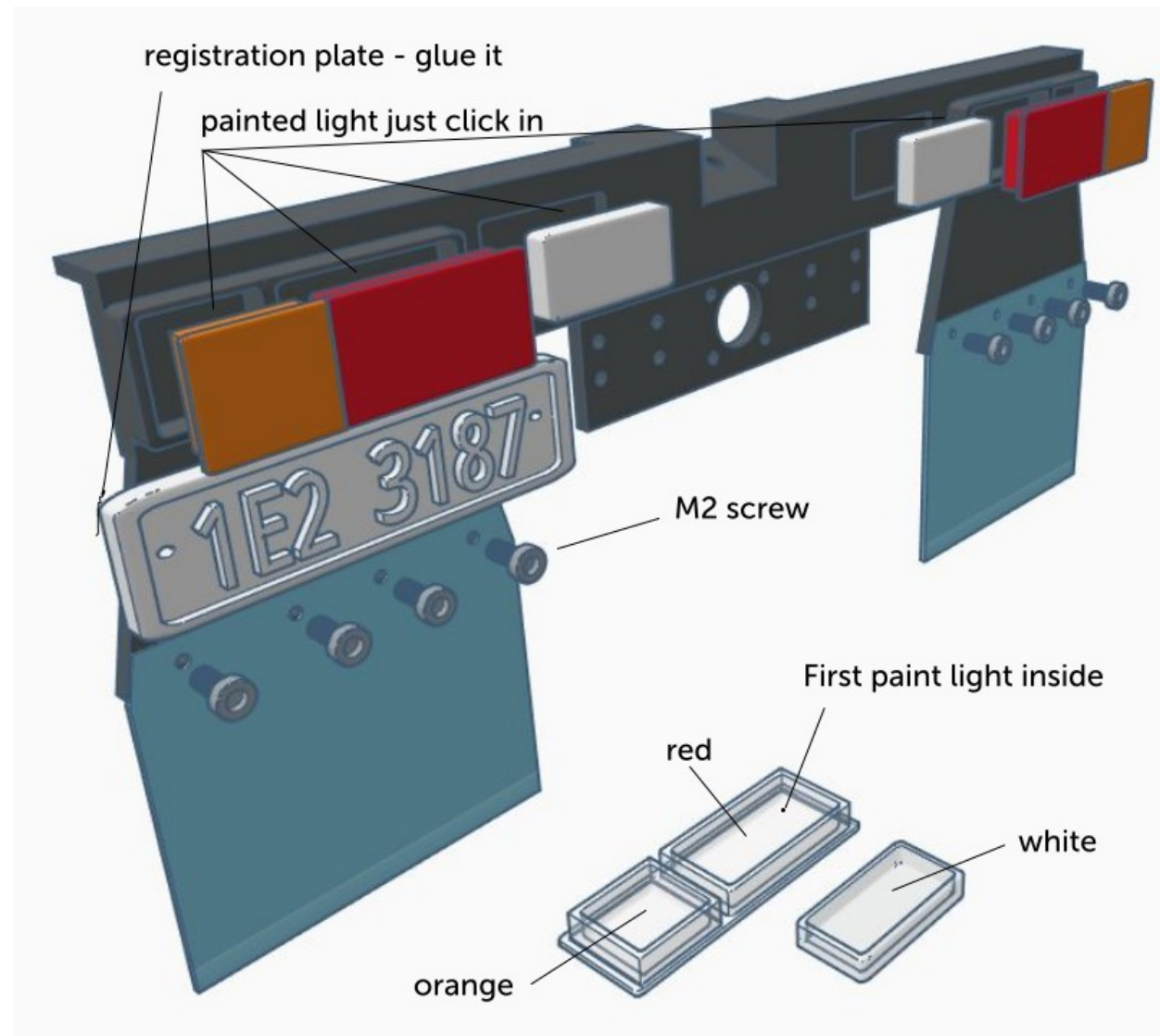




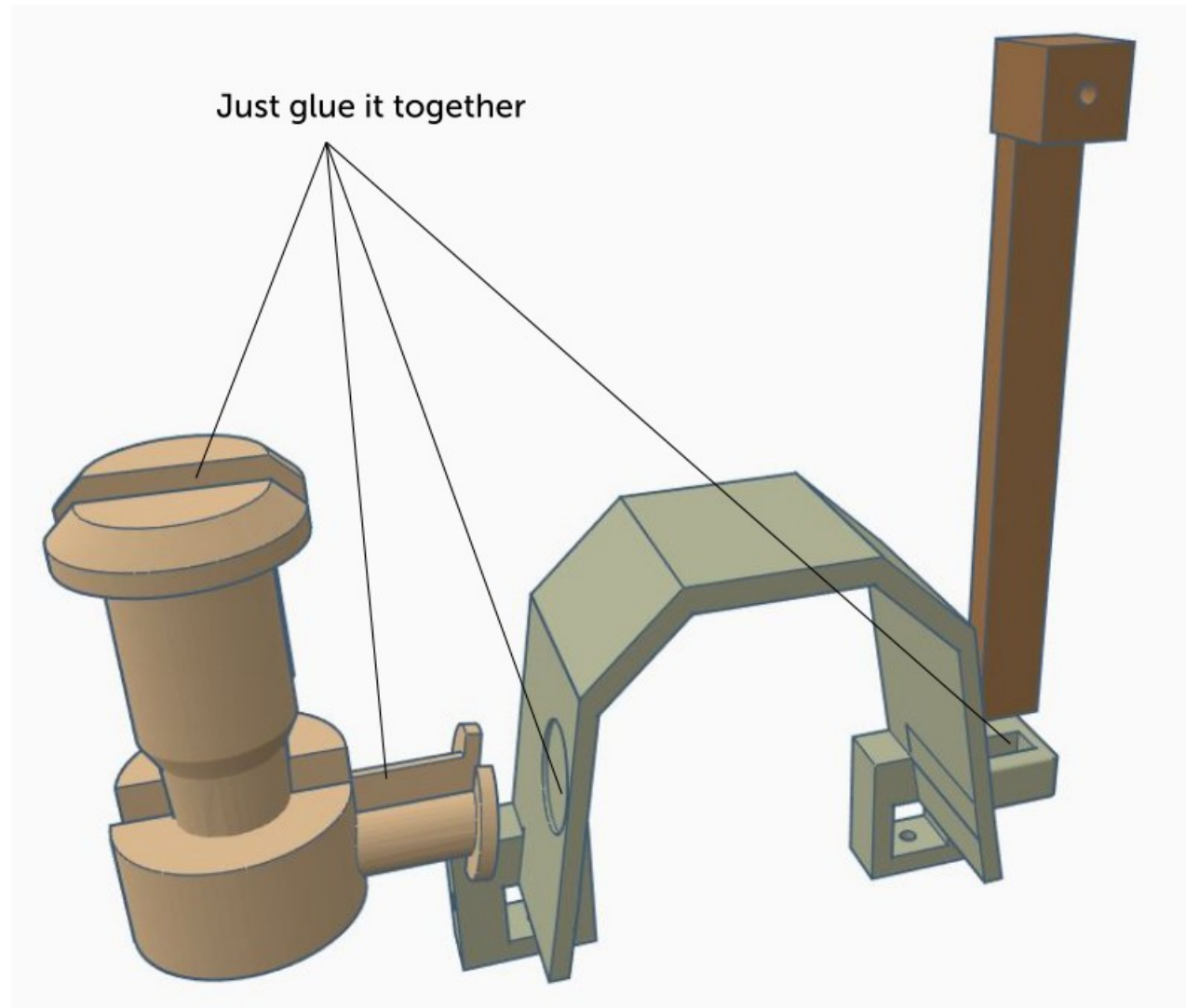
## 6. Front bumper



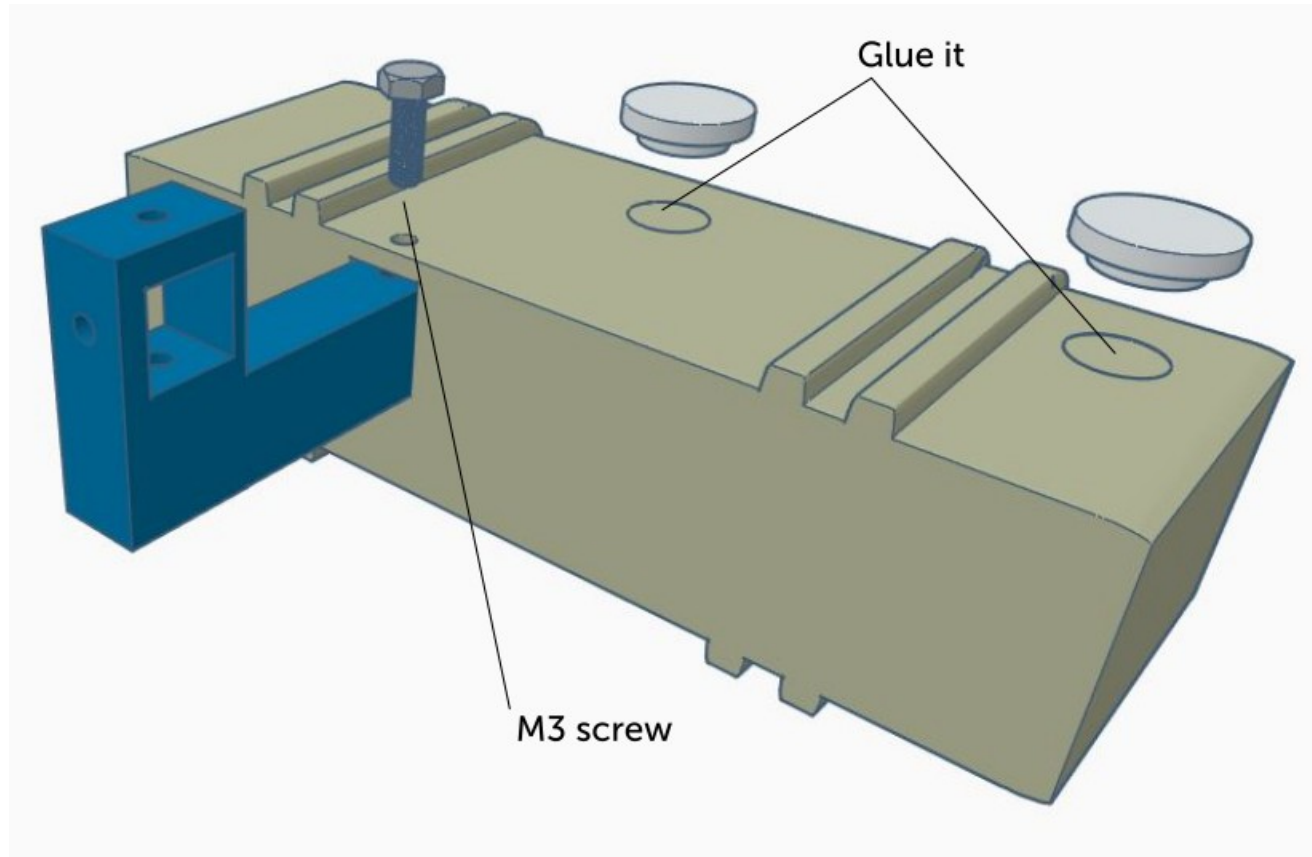
## 7. Rear bumper



## 8. Motor cover

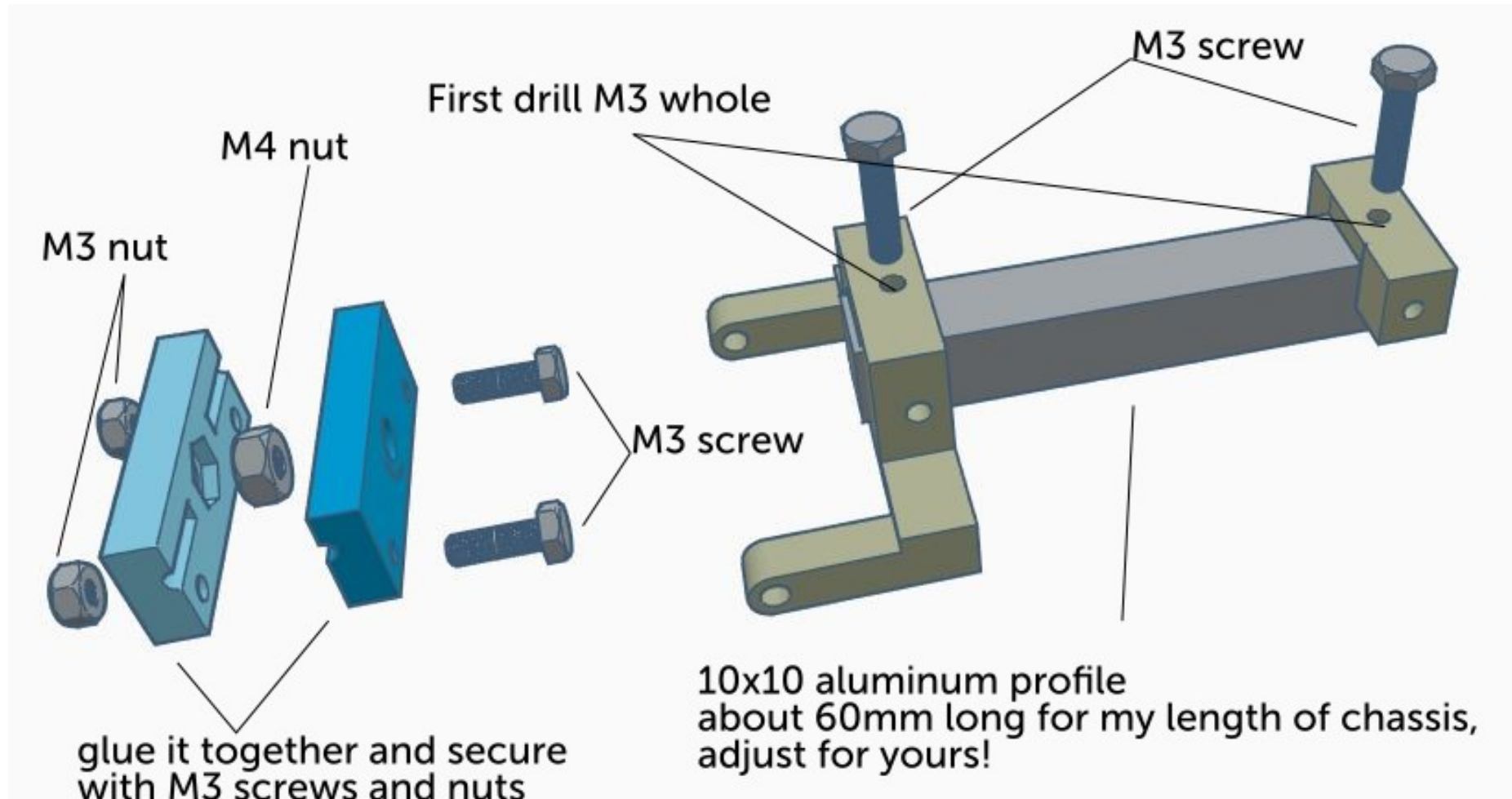


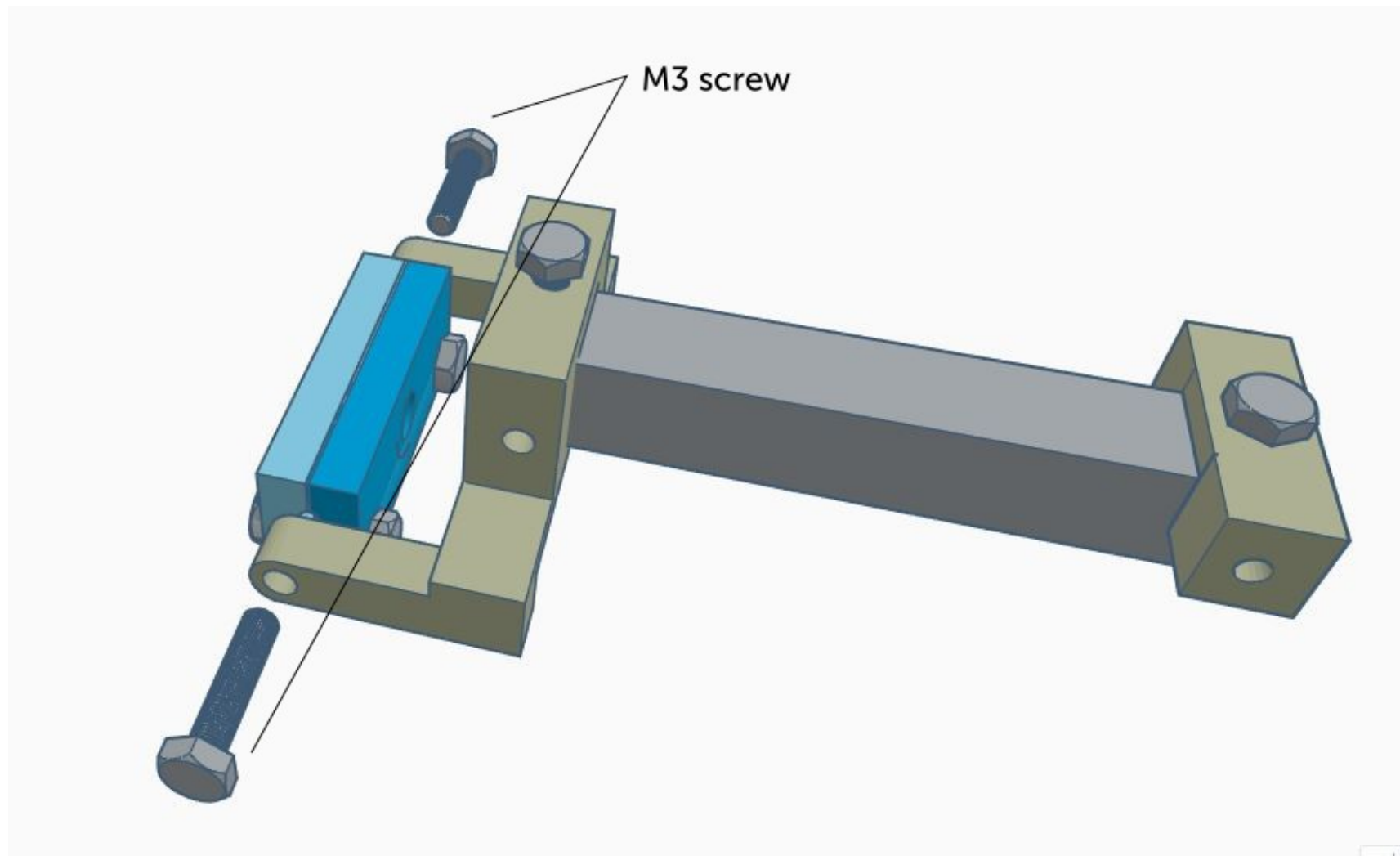
## 9. Fuel tanks

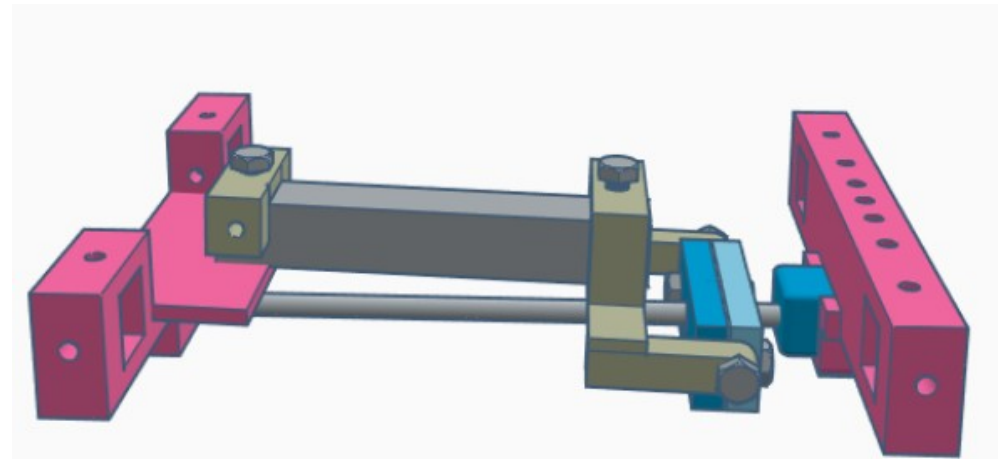




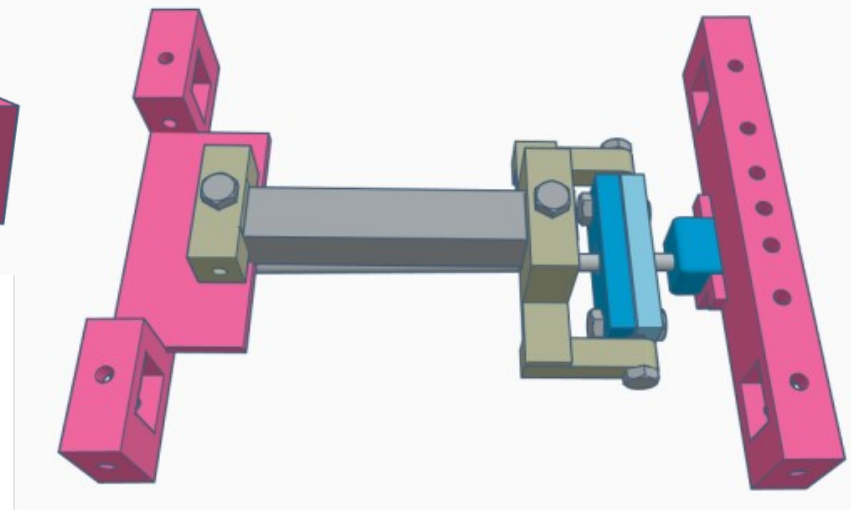
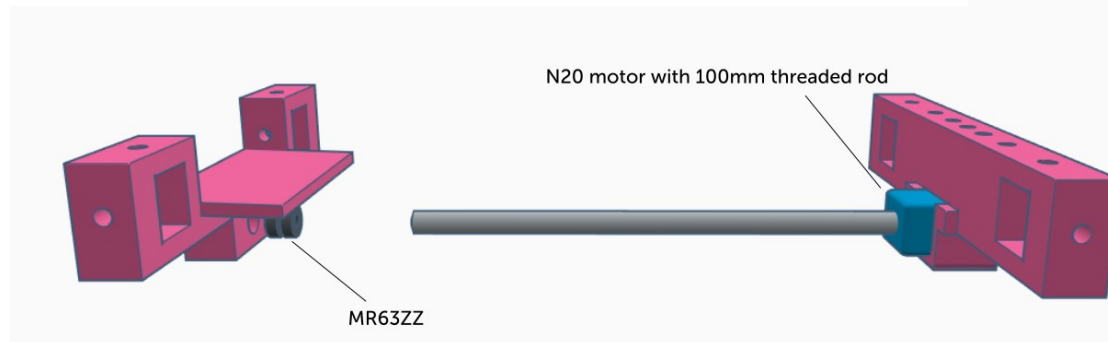
## 10. Lifting mechanism - optional



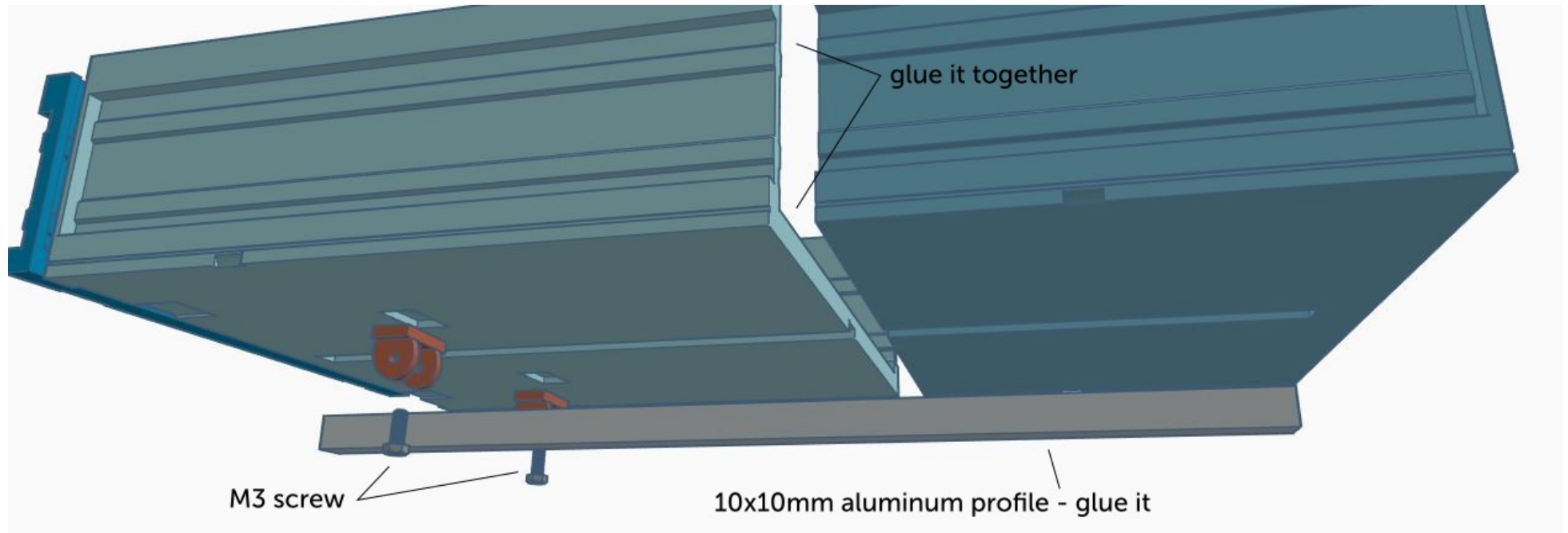


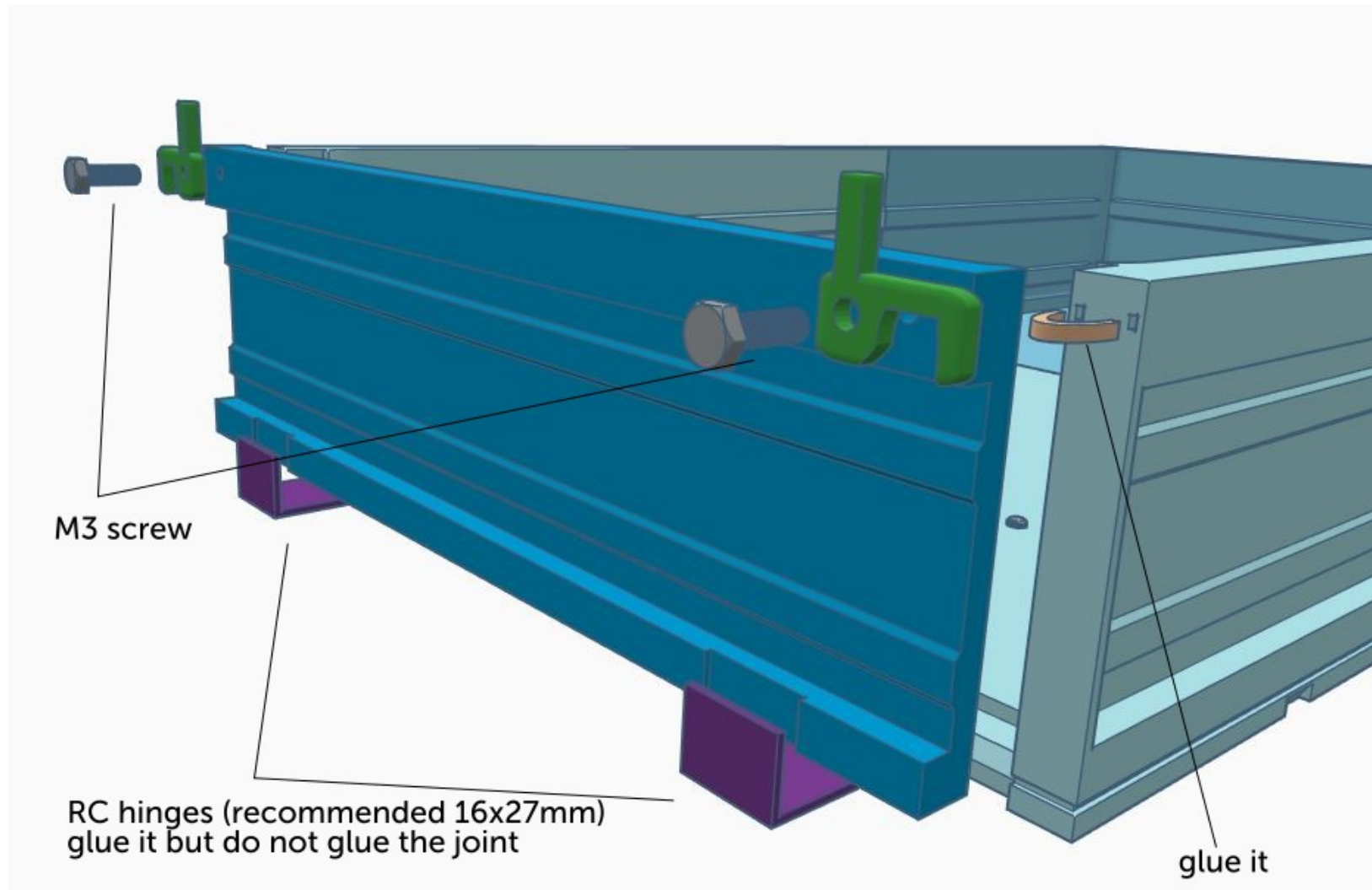


Almost completed lift mechanism



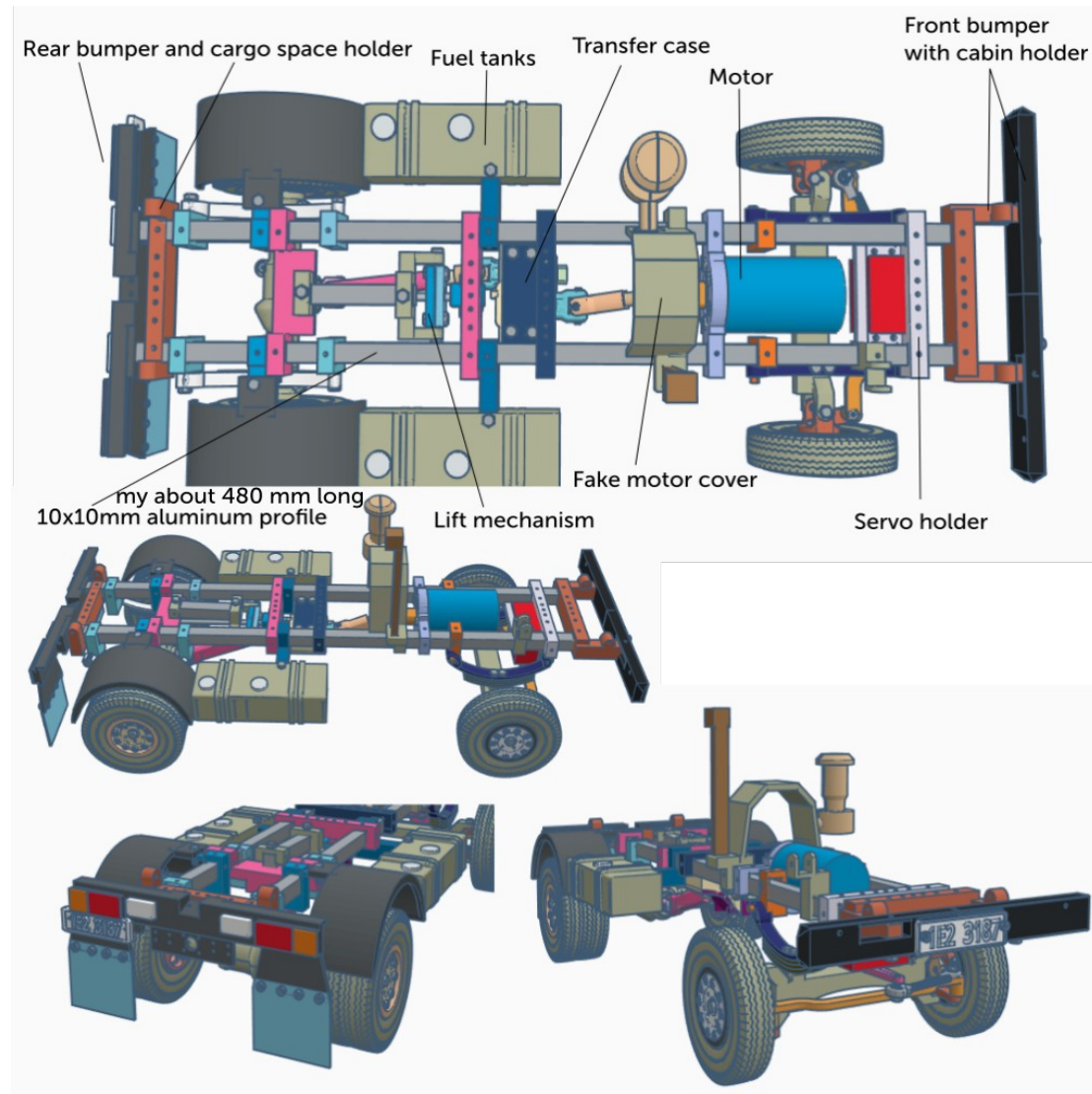
## 11. Flatbed assembly



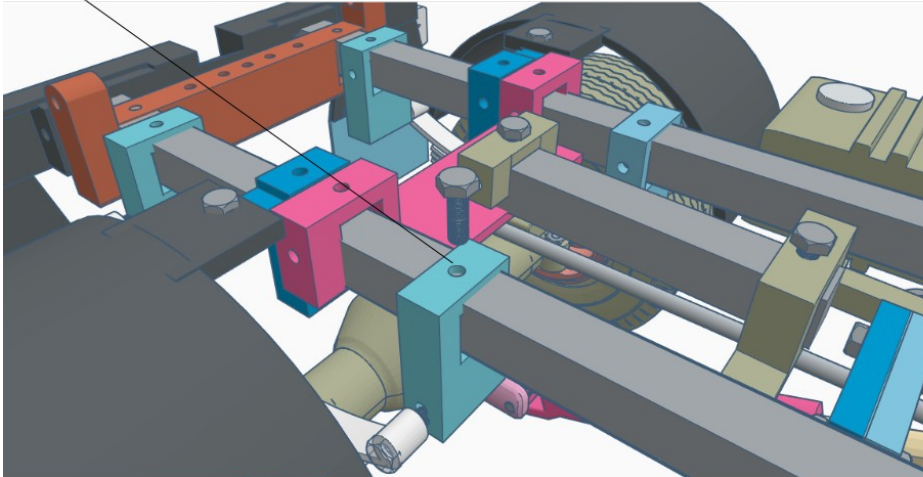




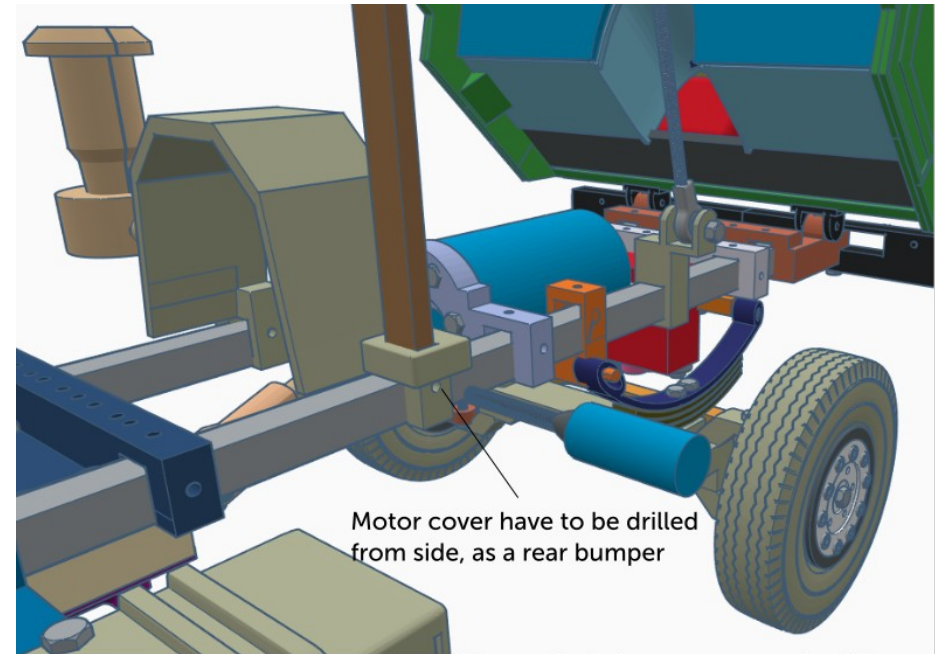
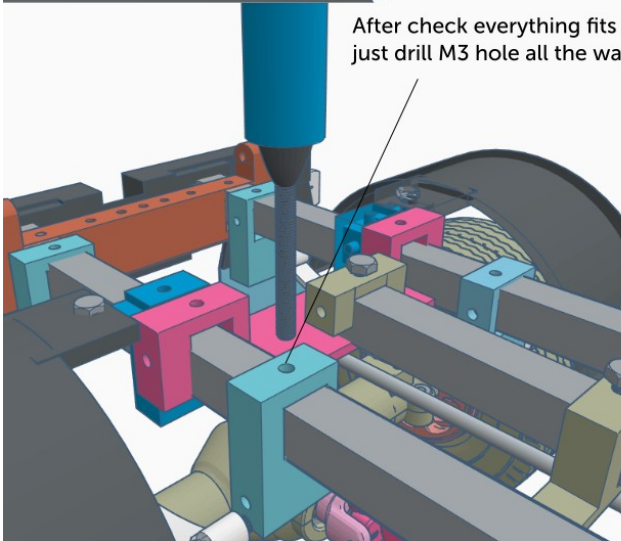
## 12. Chassis



Part of car are mounted on 10x10mm aluminum profile, First try every part of car, then tight by M3 screw, that makes mark on aluminum profile. Is possible to use hot glue instend of screw.



After check everything fits correct and car work, just drill M3 hole all the way down.



Motor cover have to be drilled from side, as a rear bumper

After drill every hole, just secure part by M3 screw, is possible to secure with M3 nut from other side

