Build Guide - Landy Mini

3D printed scale model.

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Version 1.0

Landy Mini – version 1.0 technical specs.

- Dimensions: 22,6 cm length, 11.1 cm width, 13 cm height
- Model weighs roughly 385 g
- Suspension with 3D printed springs for realistic terrain behavior
- Hood can be opened, reveals engine
- Parts are connected by screws or click-on system, no glue required
- Not suitable for small childs – contains small parts (screws) and plastic parts may break under excessive load resulting sharp edges or debris. Recommended for 5+.



Before you start printing and building:

- For best results use printing filament in multiple colours. We are recommending black color for chassis and tyres, white for body details and roof, beige/brown for interior parts and any color for car body.
- You can source the screws required for the assembling from the “Spare” bag, which comes with your Prusa Printer. Screw sizes required for assembling the model are specified on the next page.
- Use higher printing temperatures – use about 210-215°C for PLA to have firm layer adhesion!

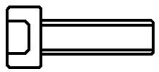
Landy Mini – version 1.0: Required hardware & filament

Screws and nuts (in metric size). You can find all required screws it the Prusa Printer "**Spare"** bag:

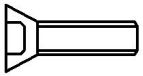
https://shop.prusa3d.com/en/mk3mk3s/980-mk3s-fasteners-spare-bag.html



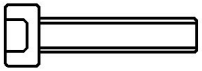
1x M2x8



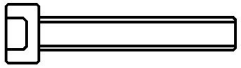
4x M3x10



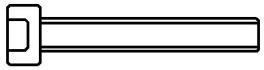
4x M3x12b



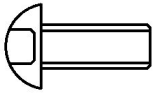
2x M3x14



3x M3x18



2x M3x20

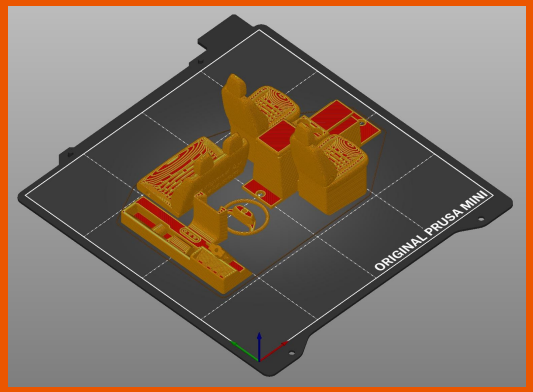


4x M4x10r

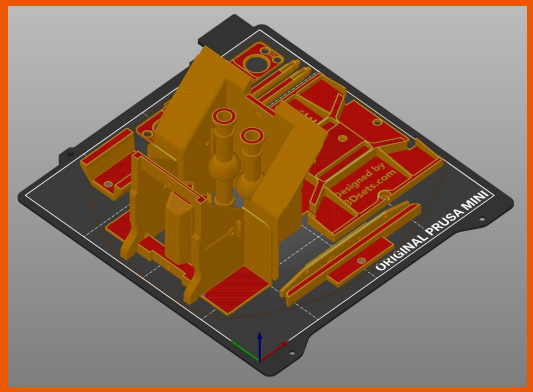
To print the model you will need about 450g of printing filament, model is tested with PLA material.

Landy Mini – printing plates overview

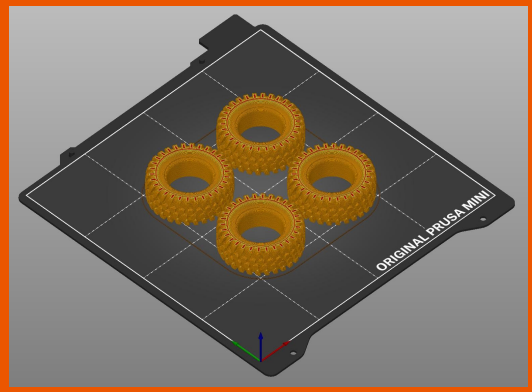
1 Interior - color A



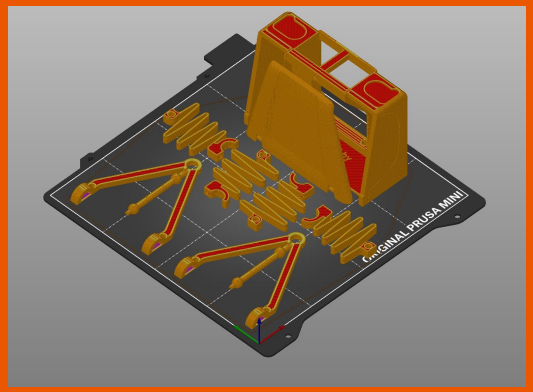
2 Chassis - color B - black



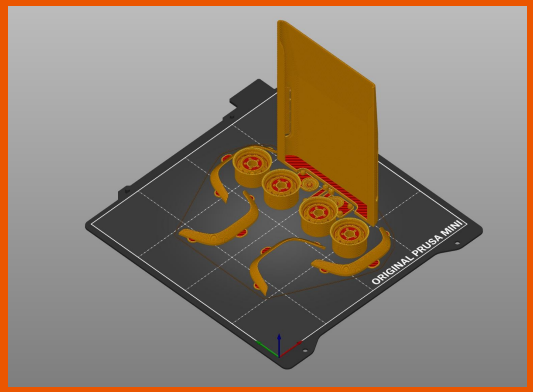
3 Tyres - color B - black



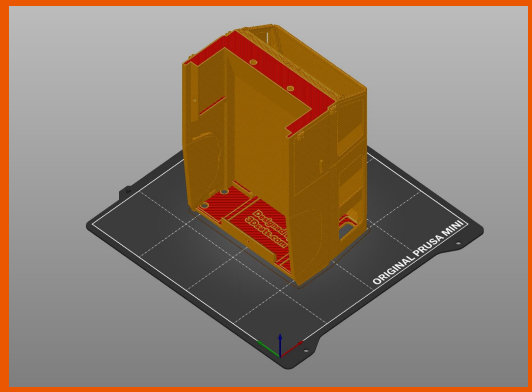
4 Body Springs Arms - color C - any



5 Roof Rims Details - color D - white

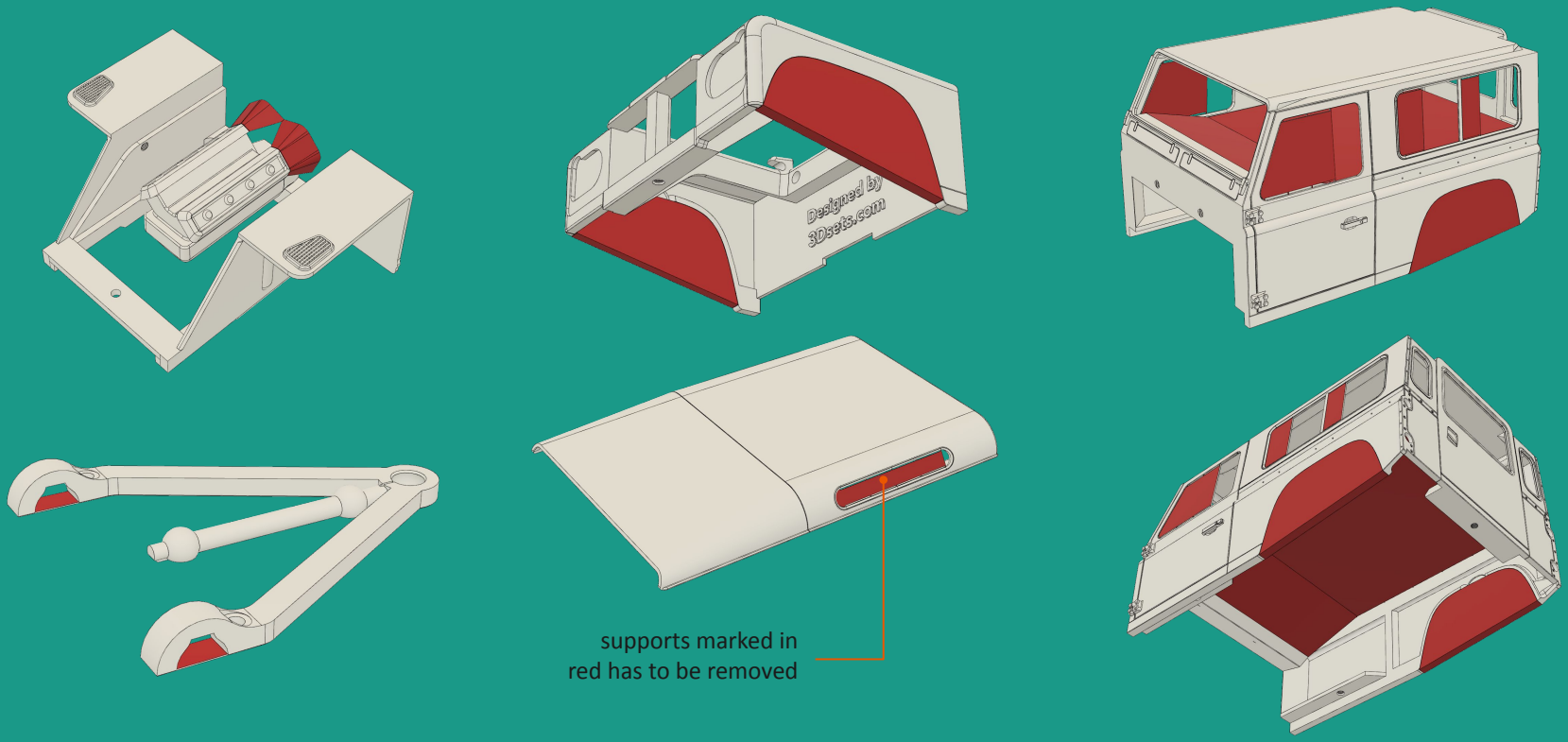


6 Body - color C - any

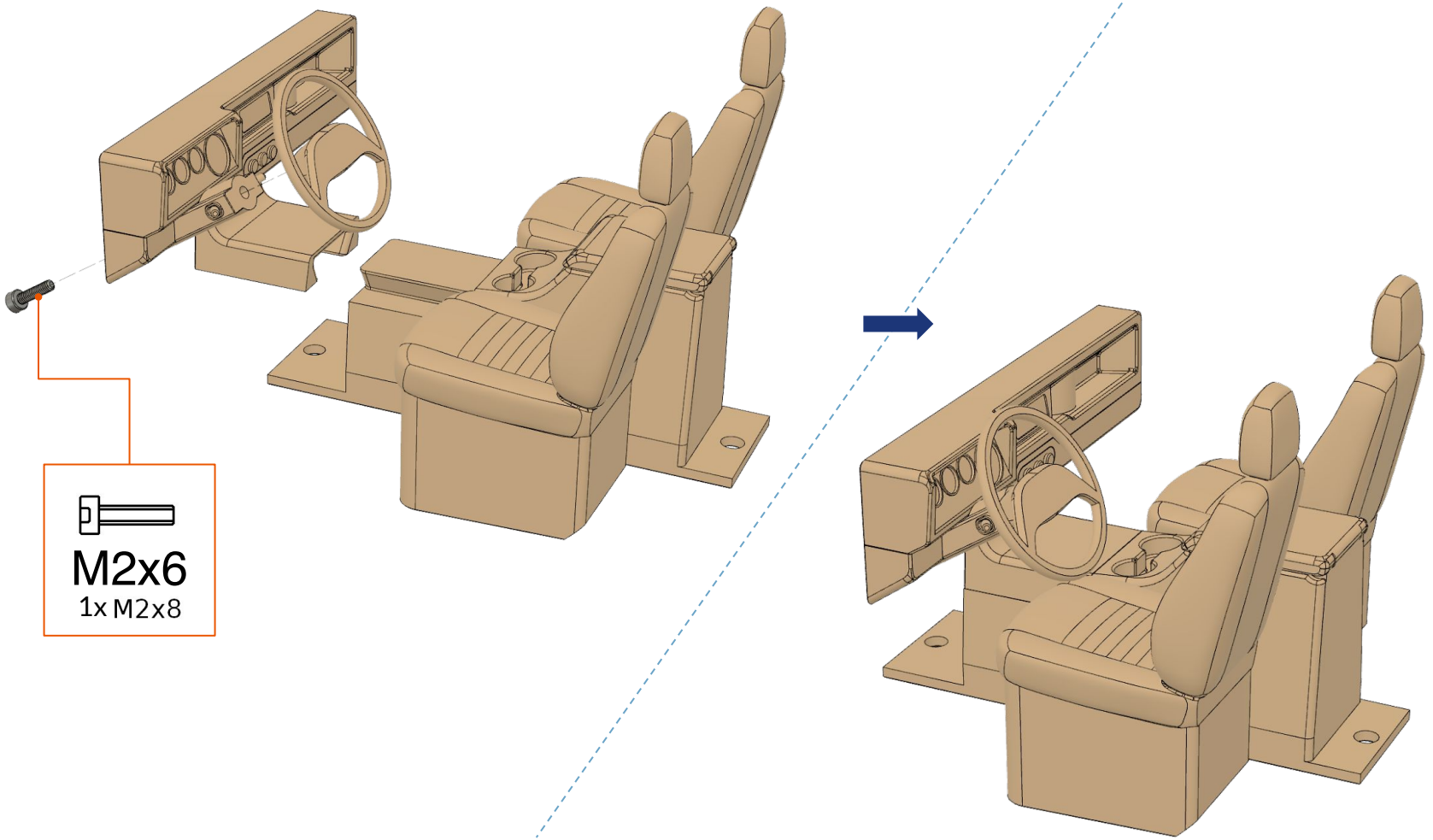


Parts Postprocessing

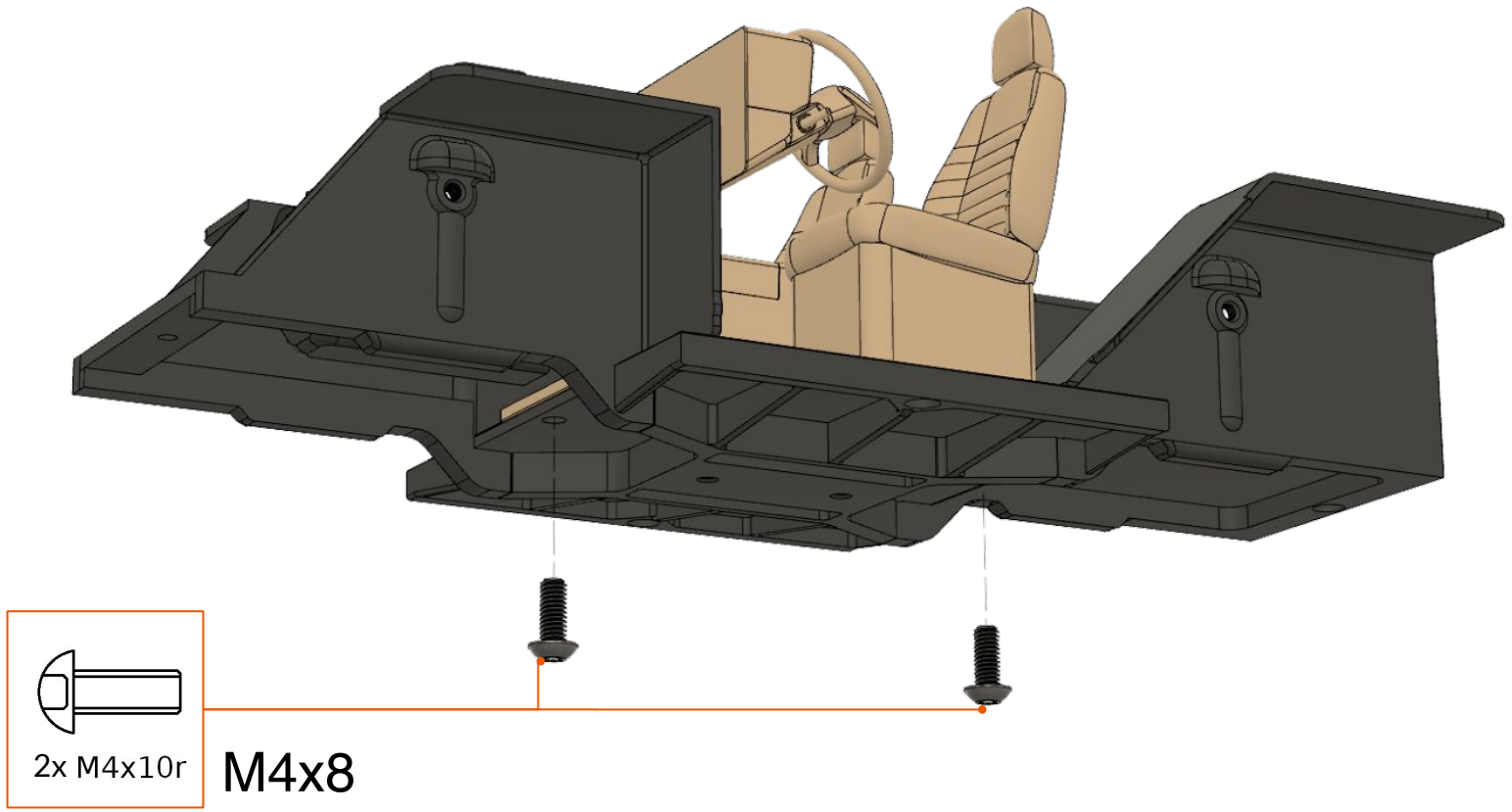
Before you start building the model, carefully remove printing supports (marked red) integrated into specific parts rendered below. You can use pliers and a sharp knife to make the procedure easier. Be very careful as you can harm yourself!



Landy Mini: Interior

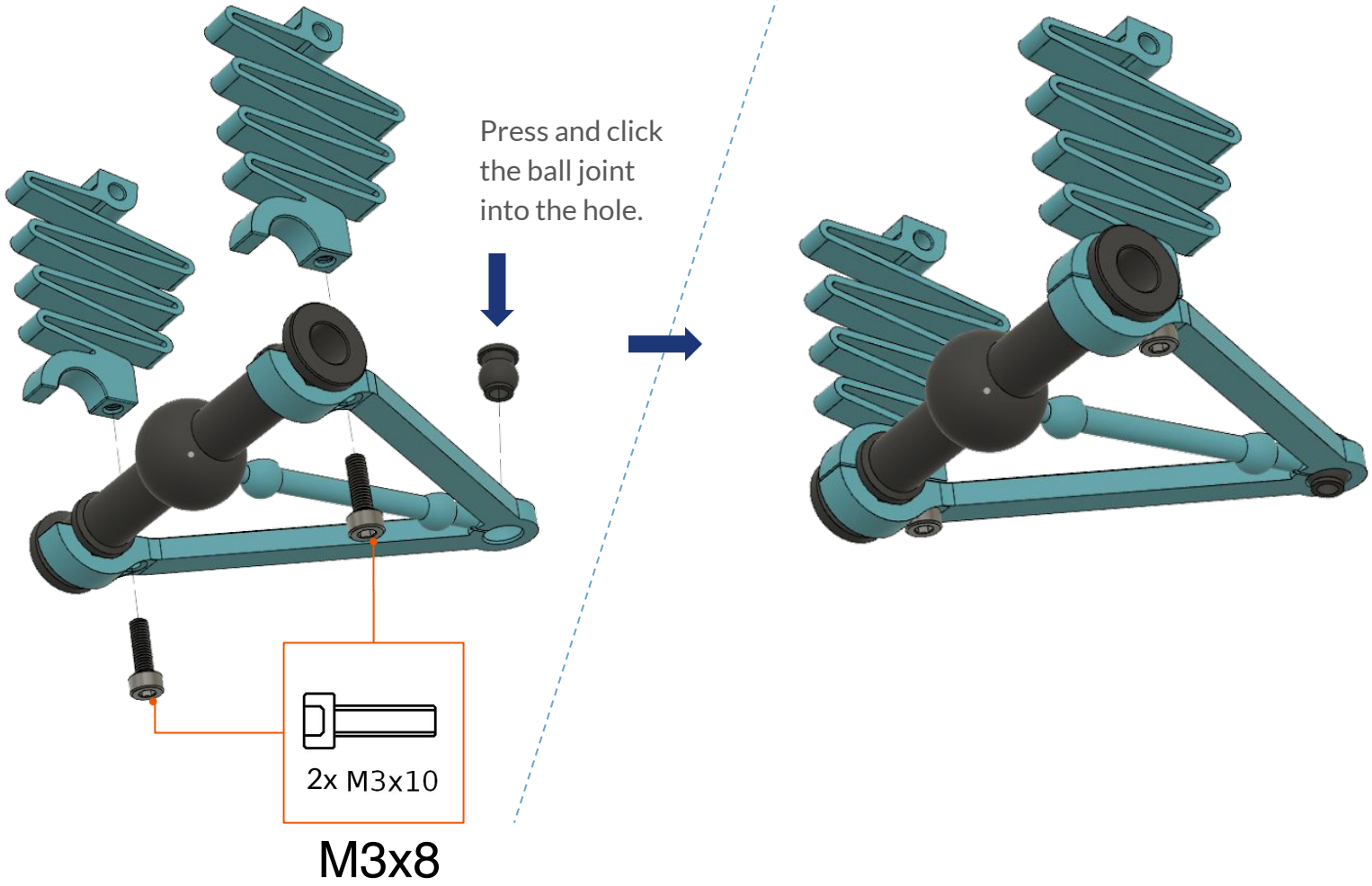


Landy Mini: Chassis

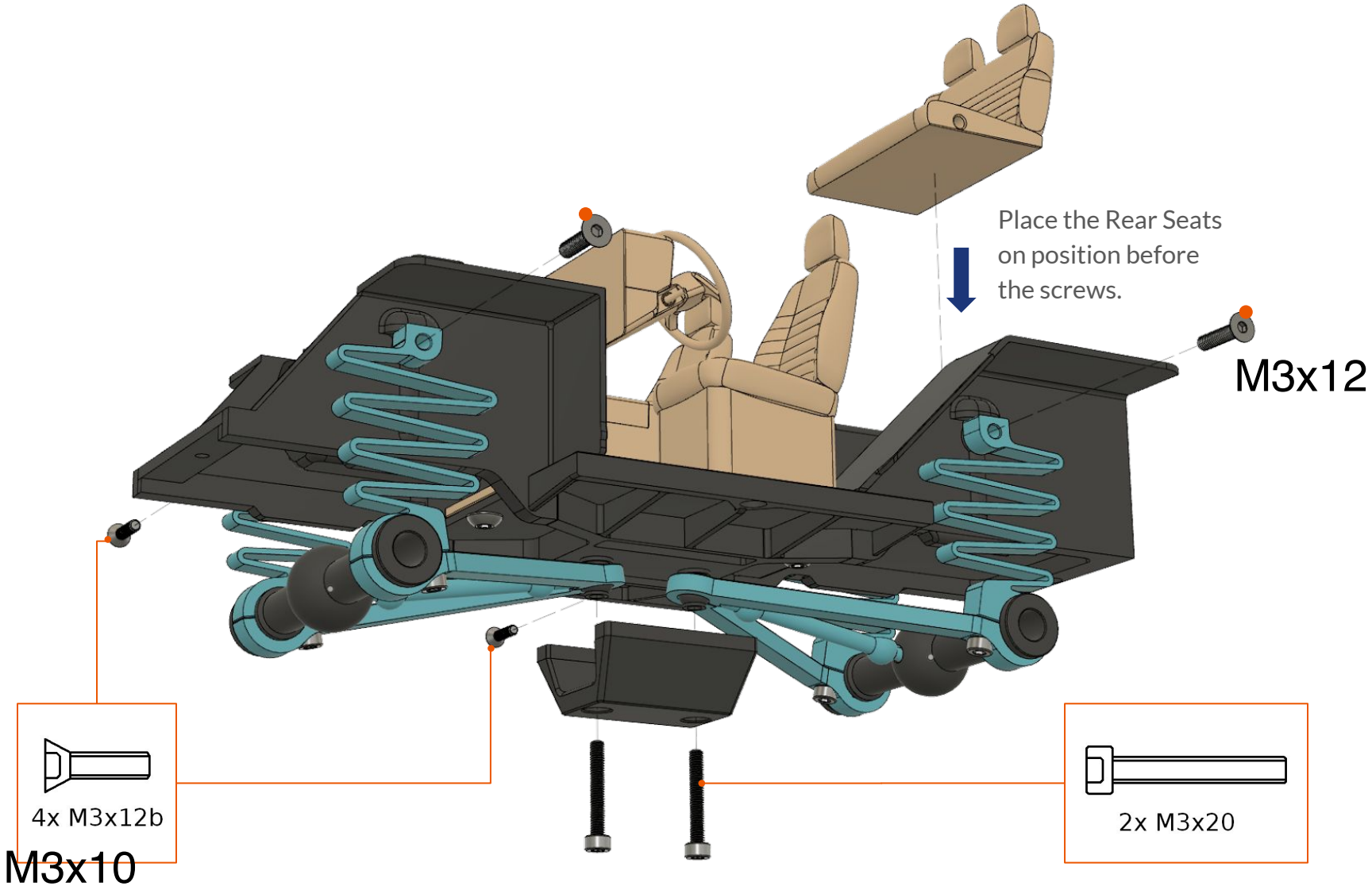


Landy Mini: Front/Rear Axle

Front and Rear axle are identical. Repeat this step 2x.



Landy Mini: Assembling Axles with the Chassis

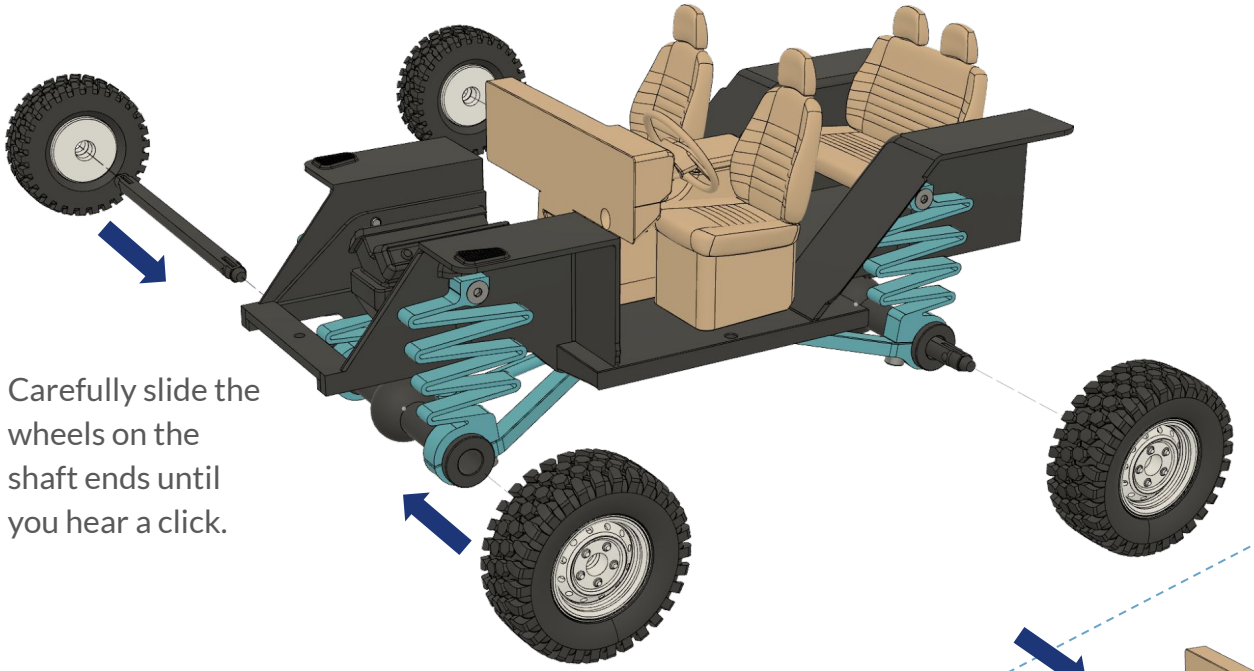


Landy Mini: Assembling Wheels

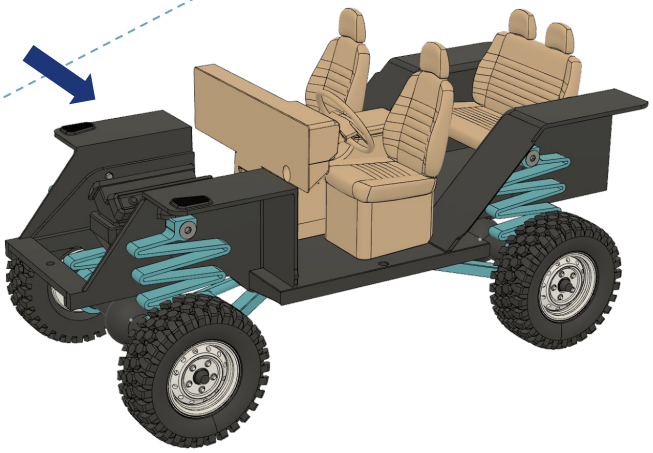
All wheels are identical. Repeat this step 4x.



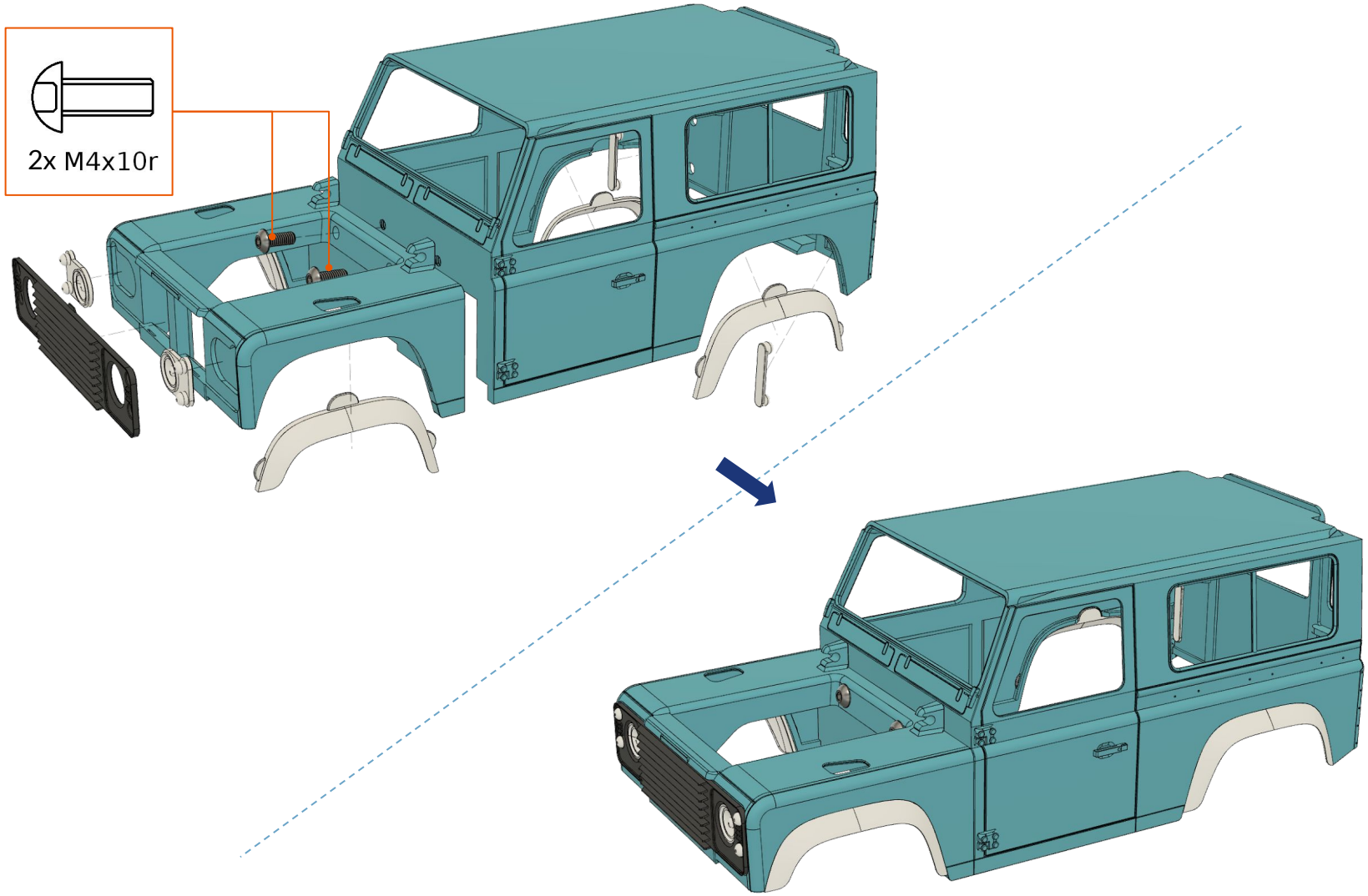
Landy Mini: Mounting Wheels on Axles



Carefully slide the wheels on the shaft ends until you hear a click.

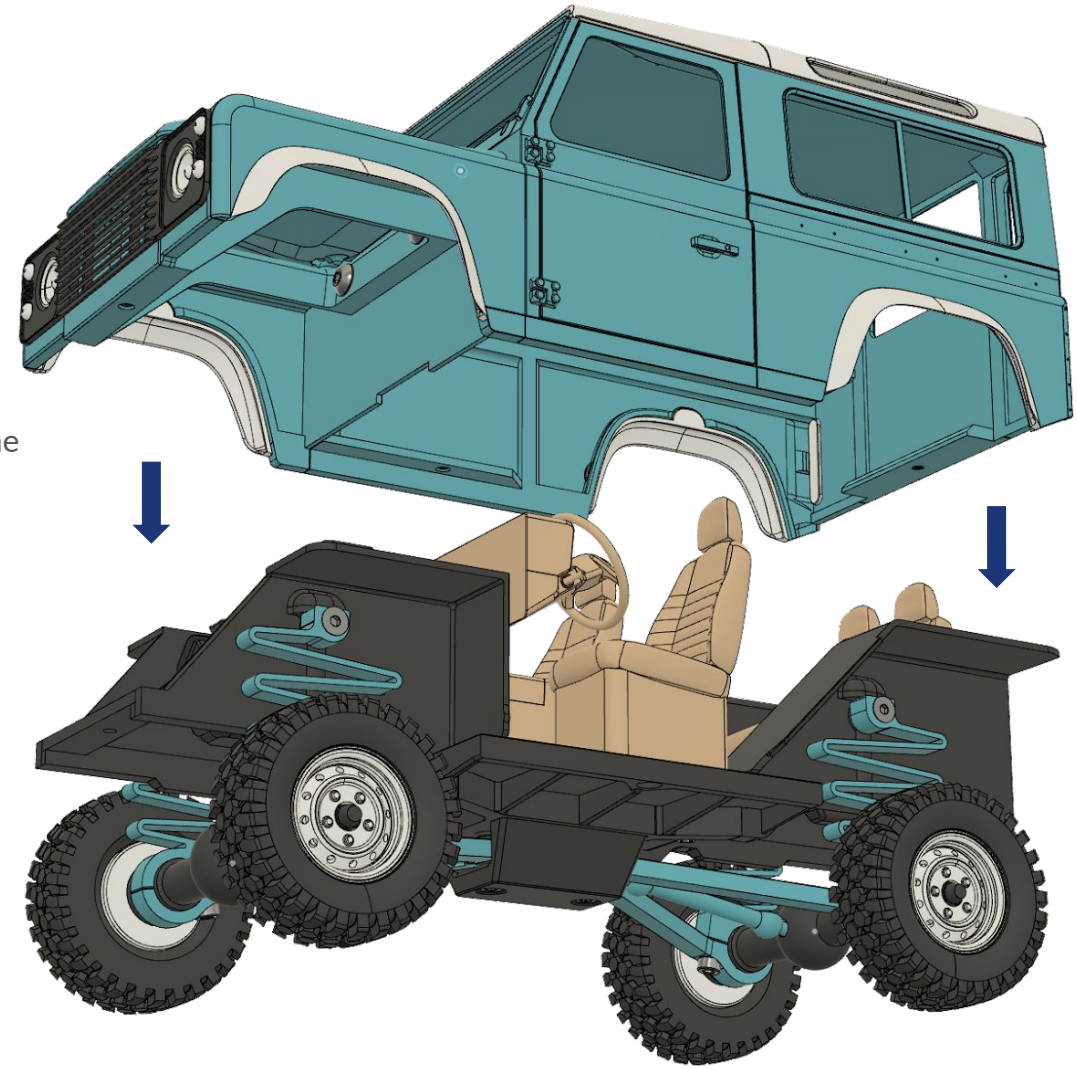


Landy Mini: Body & Details

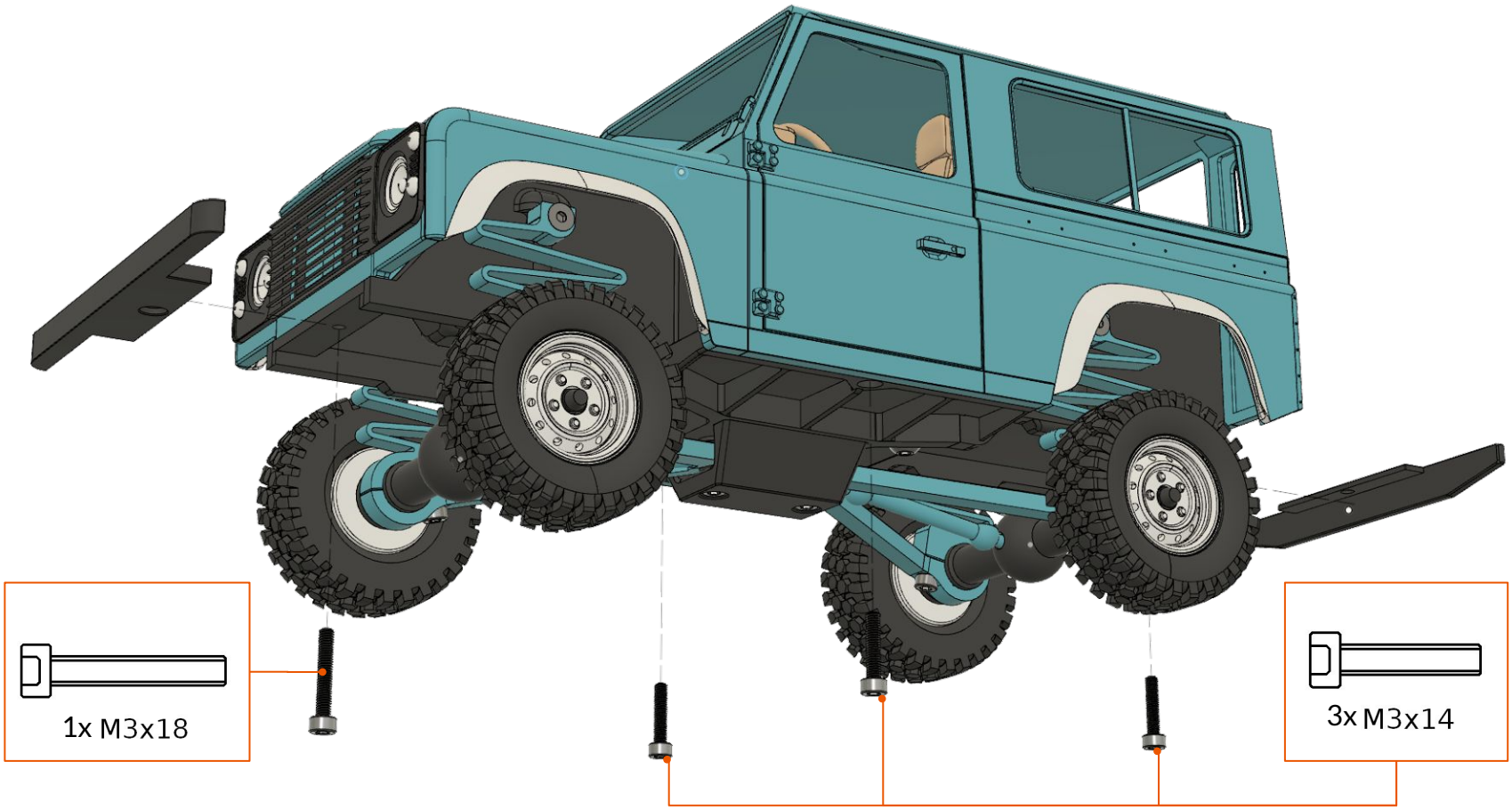


Landy Mini: Assembling Body with Chassis

Carefully slide the body on the chassis until you hear a click.



Landy Mini: Bumpers



Landy Mini: Hood and Roof

Carefully slide the hood on the body.



Landy Mini: Ready to play!

