

These soapbox assembly instructions are made available by HME free of charge, for private use and at the sole risk and liability of the user.

Disregarding the warnings below may result in serious personal injury and property damage, both during the assembly of the soapbox and the use of the soapbox, for which HME and its affiliated companies assume no liability.

The user is solely responsible for the correct implementation of these soapbox assembly instructions.

The soapbox assembly must be performed by adults, and any children present during the assembly must be strictly supervised.

The user bears the sole responsibility for the correct and safe use of the soapbox in accordance with the laws and regulation applicable within the user's jurisdiction.

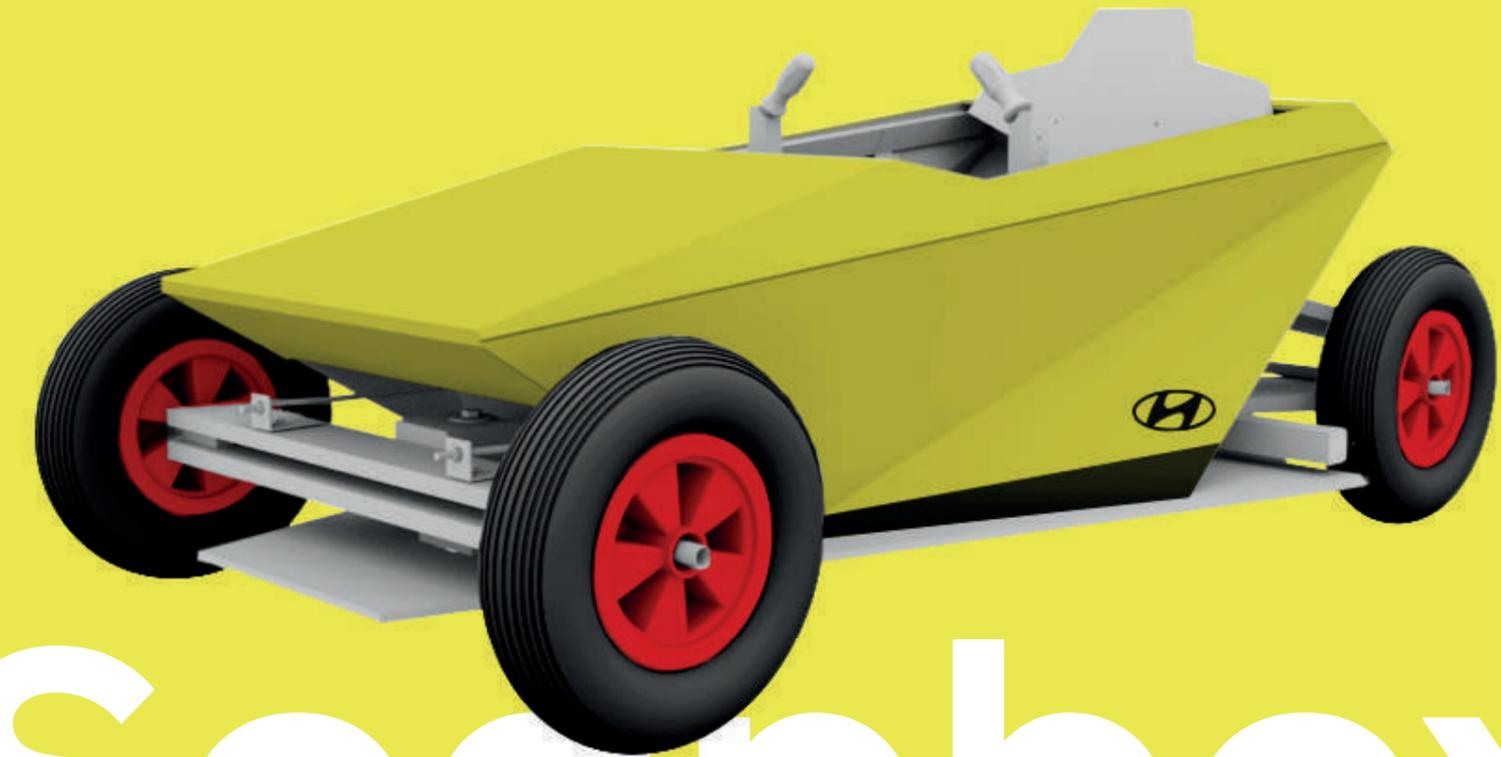
The users should wear protective equipment when constructing the soapbox (protective eyewear, protective gloves) and when using the soapbox (properly fitting helmet, elbow and knee pads).

**Any use of the soapbox by children must always be strictly supervised by adults.**

The soapbox is designed for leisure use only, and should be used with caution. It is not designed for, and is not suitable for high-speed races or for competitive use, and must never be allowed to become airborne.

The use of the soapbox, and in particular its braking mechanism, is subject to a weight limit of 90 kilograms.

**The soapbox is not designed for use in public traffic. It must never be used in public traffic to avoid damage and injuries to its user and third parties.**

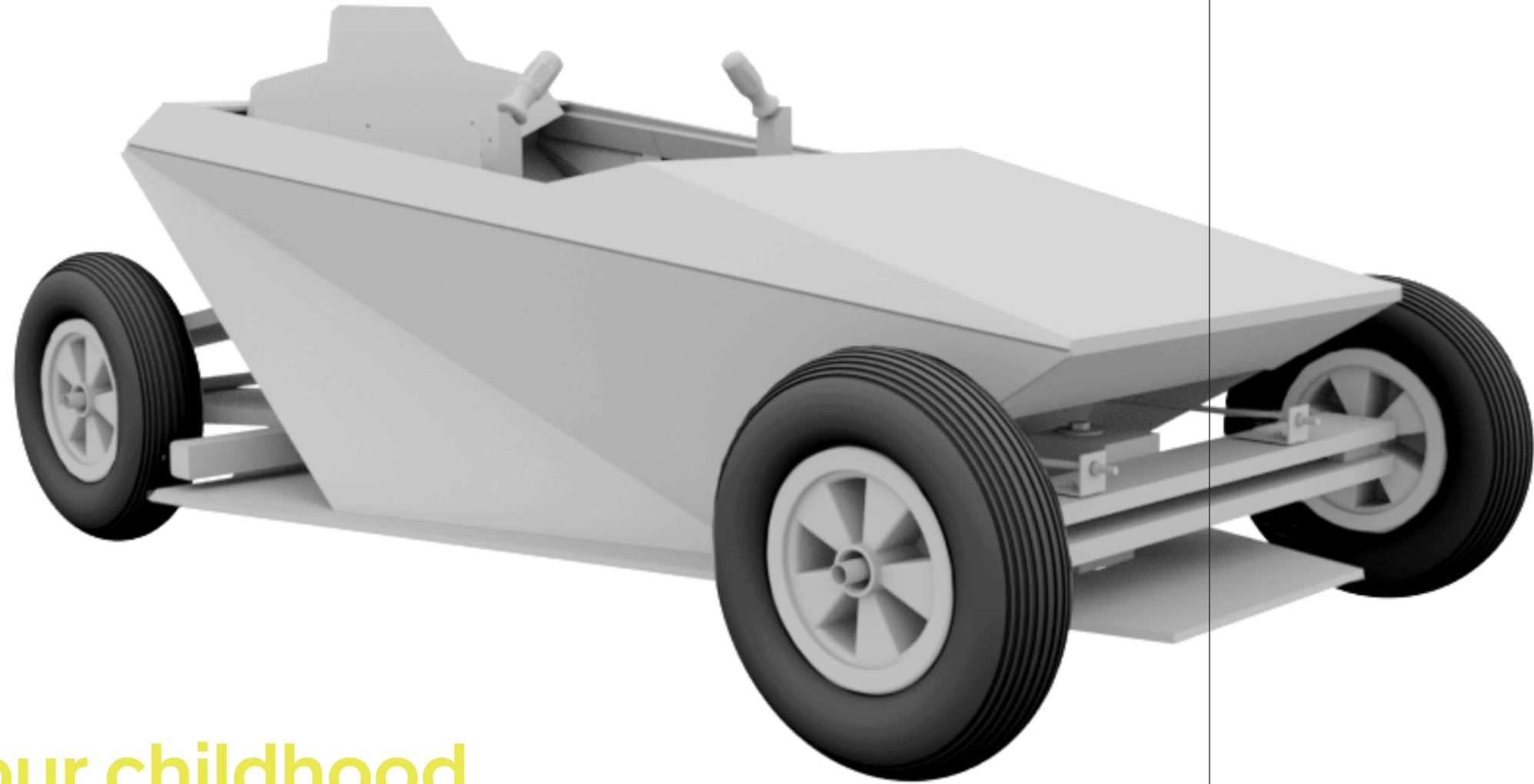


# Soapbox



HYUNDAI

Relive your childhood memories together.



” Driving a soapbox once and feeling the pure speed that you have designed and screwed together with your own hands is just awesome. For everyone who have had the opportunity to take part on such a project, the experience is still one of the most beautiful memories of their childhood. Sitting in your own vehicle for the first time, feeling the potential of a real car and pushing your self-screwed construction to the limits of its load-bearing capacity - isn't this what we all dreamed of secretly as children and teenagers? The fascination for soapboxes has always been special.

Hyundai Motor wants to revive these bygone days and get both young and old excited for a joint project with a model especially designed by Hyundai's European design centre. Inspired by the 45 concept car and simplified to be easy to replicate at home, the Hyundai Soapbox is also an eye-catcher from a visual point of view. All the materials needed to build the soapbox are affordable and can be bought in any DIY store. With the buildup booklet in hand, you can start the Hyundai Soapbox project with your family or your close friends whenever you want. Enjoy your time as a team, working together to build the fastest racer of your neighborhood.

“

The entire Hyundai Motor Team wishes you lots of fun and a safe drive!

## Hardware

01	<b>Stainless Woodscrews</b> 4x (4x25), 6x (5x35), 93x (5x60) mm	13	<b>Steel Pull Spring</b> 1x (75x13) mm
02	<b>Steel Hex Bolt</b> 6x (M5x35), 1x (M10x160), 1x (M10x120), 3x (M12x53) mm	14	<b>Flat Steel Hinges</b> 2x (80x40) mm / 2,5 mm Material Thickness
03	<b>Steel Self-Locking Nut</b> 6x (M5) 4x (M10), 3x (M12)	15	<b>File Handles</b> 2x (90) mm
04	<b>Steel Washers</b> 8x (M5), 6x (M8), 6x (M10), 9x (M12)	16	<b>Steel Tube</b> 2x (19,80x1000) m (20) mm
05	<b>Steel Carriage Bolt</b> 8x (M10x80) mm	17	<b>Steel Lockrings with Setscrew</b> 4x (20x14) m (for 20) mm
06	<b>Steel Hex Nut</b> 13x (M8)	18	<b>Wheelbarrel Wheels</b> 4x (400) mm (Diameter for 20) mm
07	<b>Steel Threaded Rod</b> 3x (M8x1000) mm	19	<b>Steel Keyring</b> 1x (40) mm
08	<b>Steel Connecting Nut</b> 4x (M8x24) mm		
09	<b>Steel / 12mm Eye</b> 7x (M8x60) mm		
10	<b>Bicycle Cantilever Brake Pads</b> 2x (6,9x30) mm Bolt		
11	<b>Steel 90° Angle Bracket</b> 2x (70x40), 2x (40x40) mm		
12	<b>Steel 90° Angle Bracket</b> 1x (103x47 mm) 4 mm Material Thickness		

## Wood

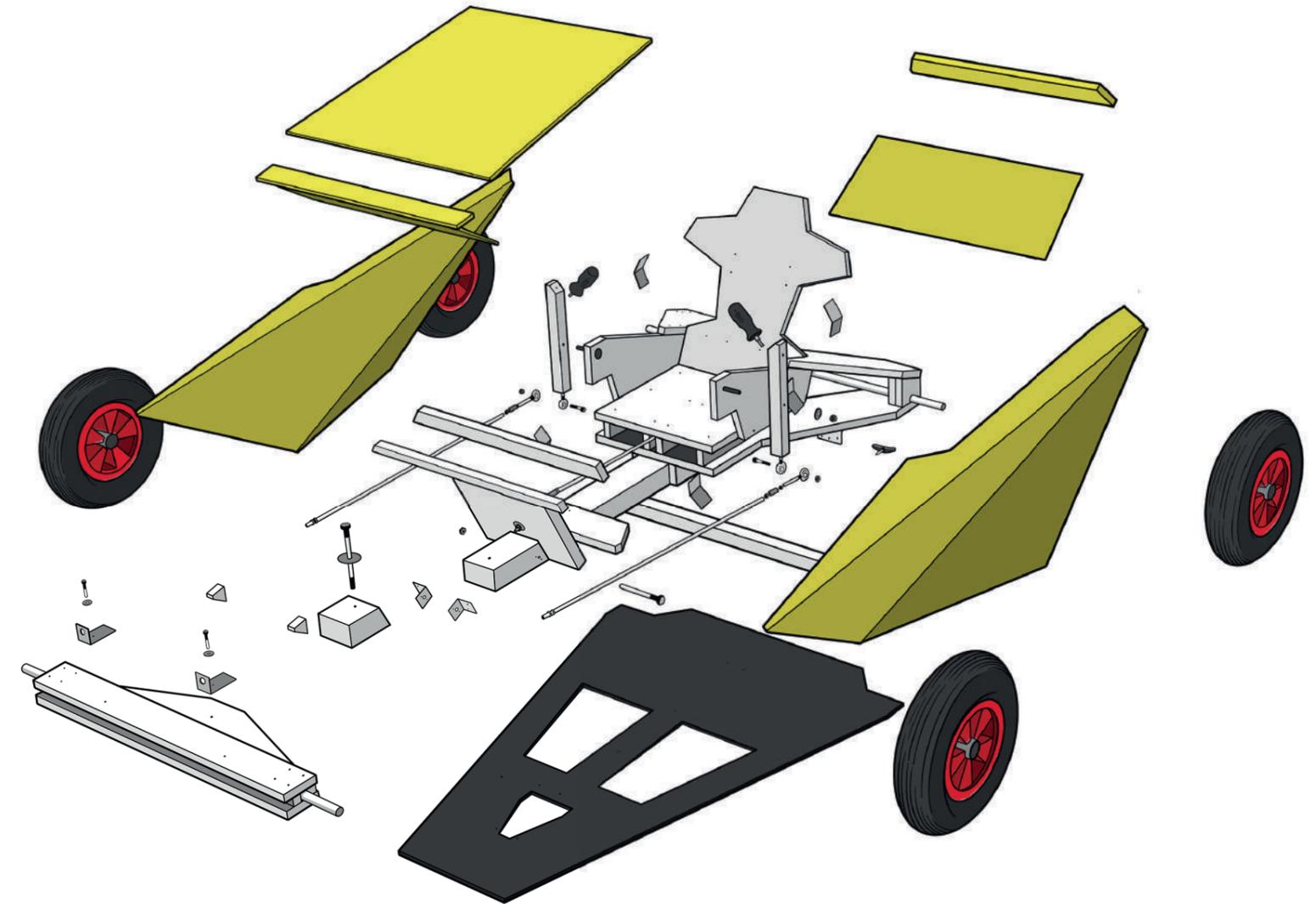
01	<b>MDF Wood plate</b> 4x (800x600) mm
02	<b>OSB Wood plate</b> 4x (2500x1250x22) mm
03	<b>Wood beam</b> 1x (60x100x1050), 2x (34x34x310) mm 1x (60x100x125), 1x (44x44x940) mm

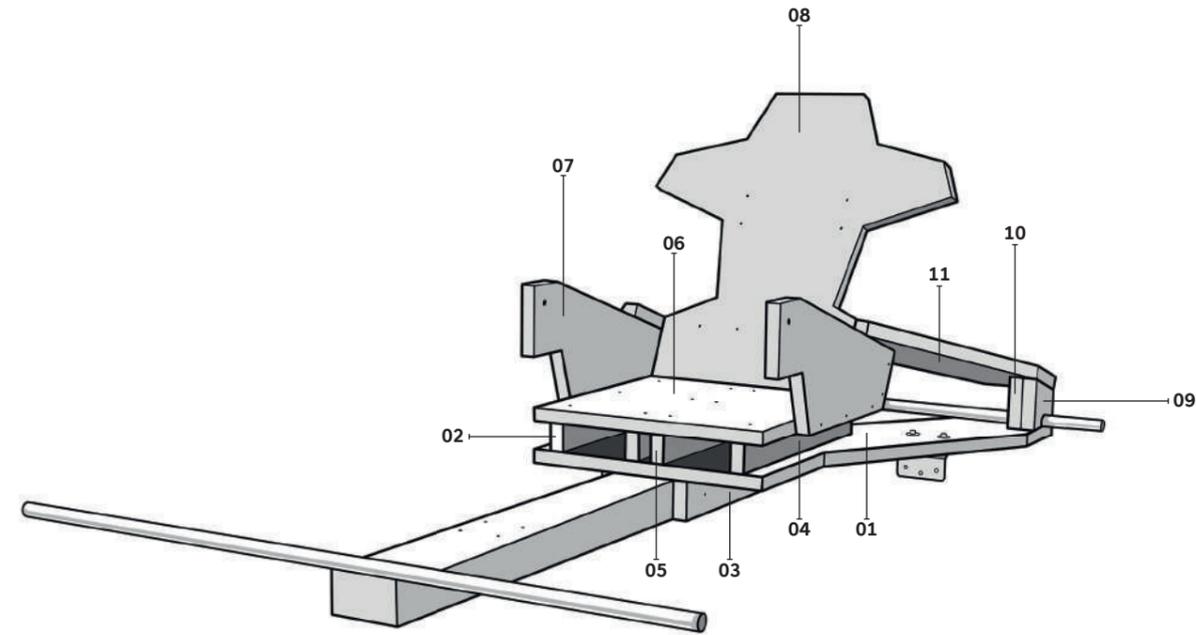
## Tools

<b>Wood Saw</b>	
<b>Metal Saw</b>	
<b>Screwdriver</b>	
<b>Wrench</b>	
<b>Woodglue</b>	
<b>Pliers</b>	
<b>Hammer</b>	
<b>Drill</b>	

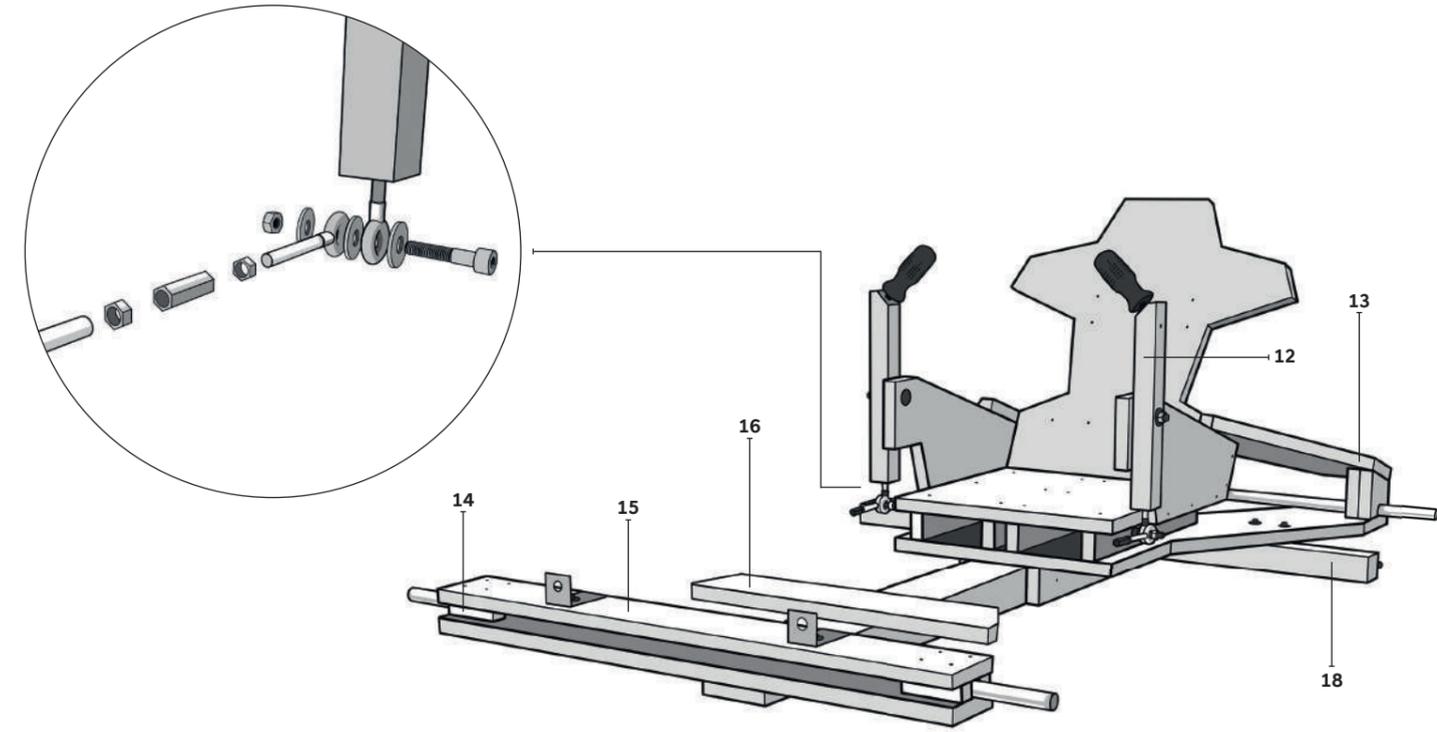
## Cuttings

To make the assembly as smooth as possible, cut and prepare all the required wooden pieces for each step beforehand. You can find the exact dimensions on the plans provided alongside these instructions in a folder that corresponds to the build steps.

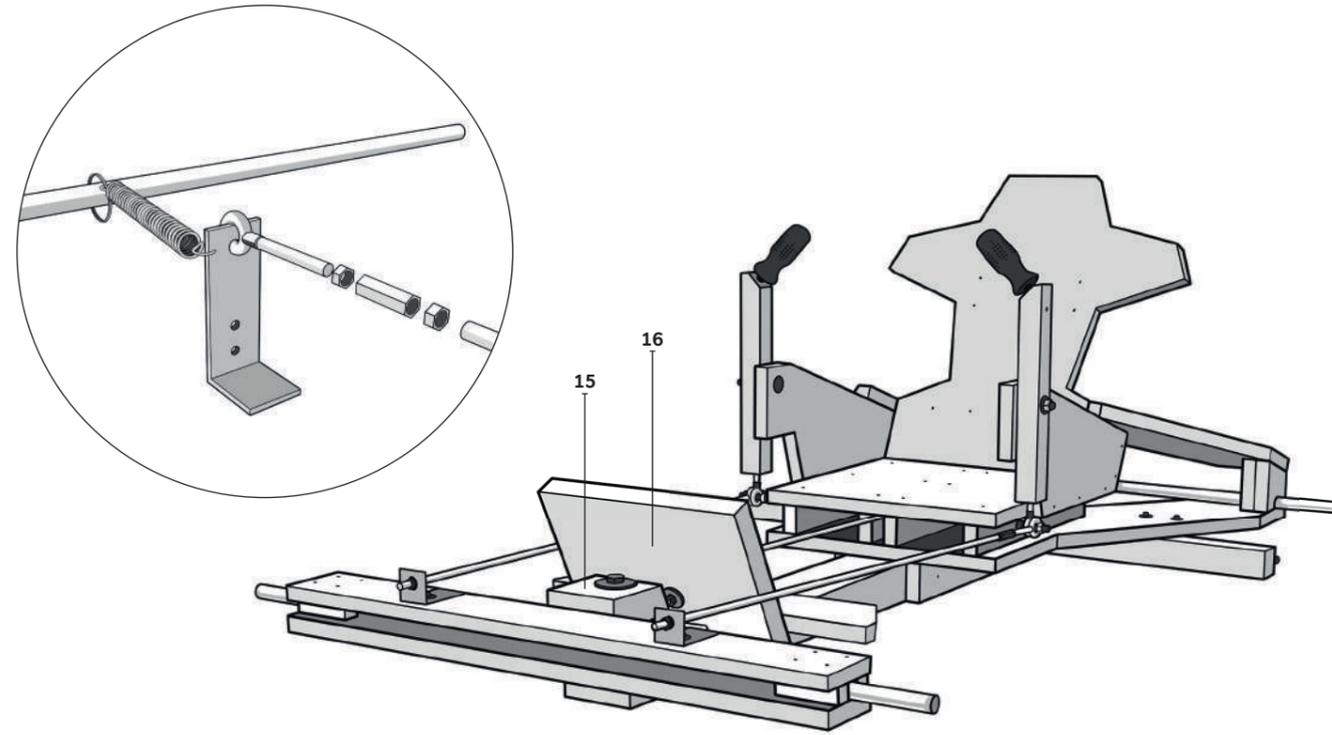




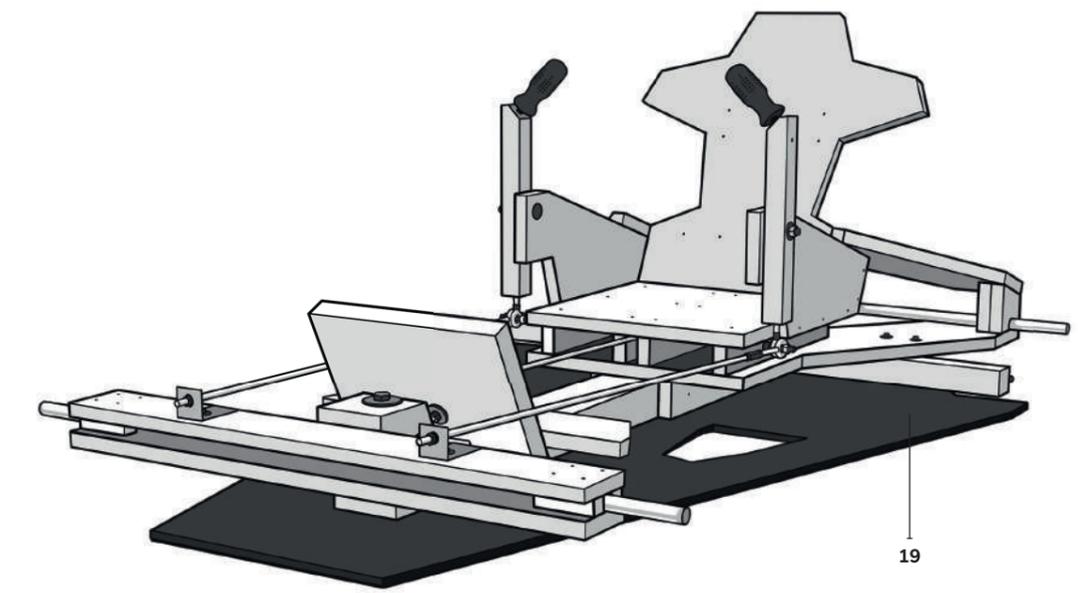
In the first step the foundation for the chassis has to be laid. For this purpose, the front steering axle is attached to the top of the center brace, on which the seat also finds its place further back. The rear steering axle is placed behind the seat, where the central brace merges into two outwardly diverging plates. The rear axle is then connected to the seat by two accurately fitting press plates.



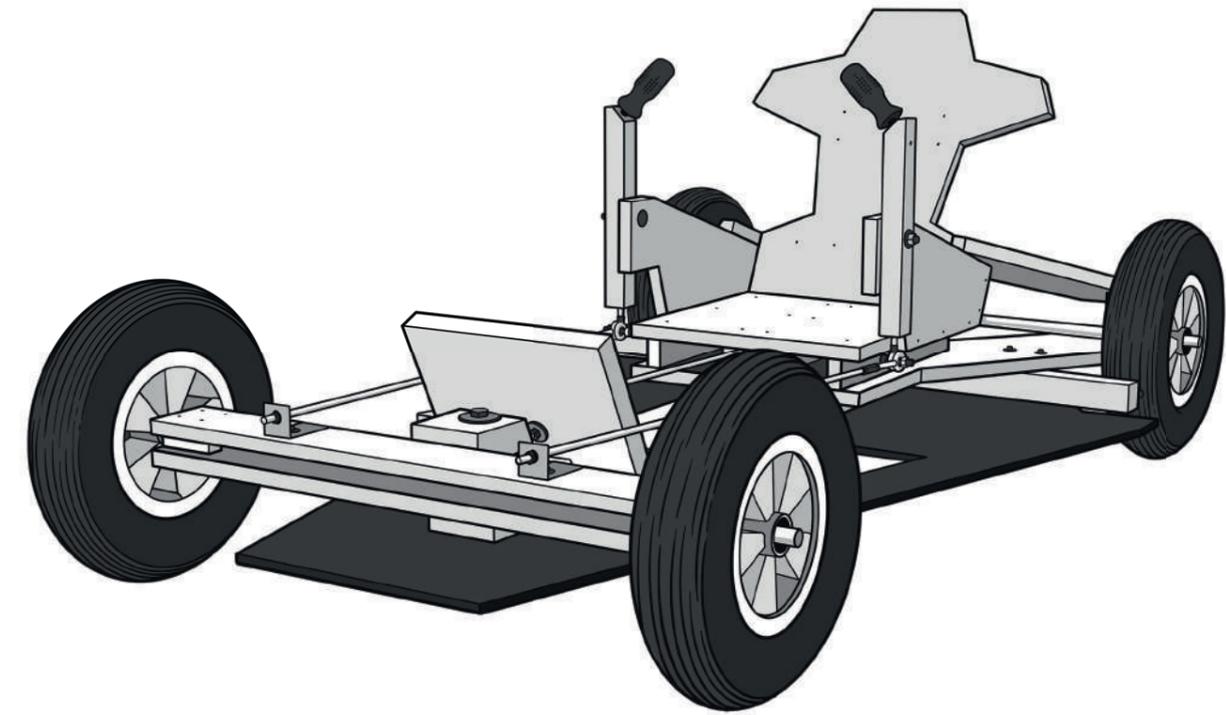
In the second step, the front steering axle is initially integrated into a socket through which it will later be connected to the driver's joysticks. Meanwhile, the two joysticks are attached to the left and right sides of the seat with screws. Finally, the two outwardly running plates on which the rear steering axle is placed are connected by a cross strut on the underside.



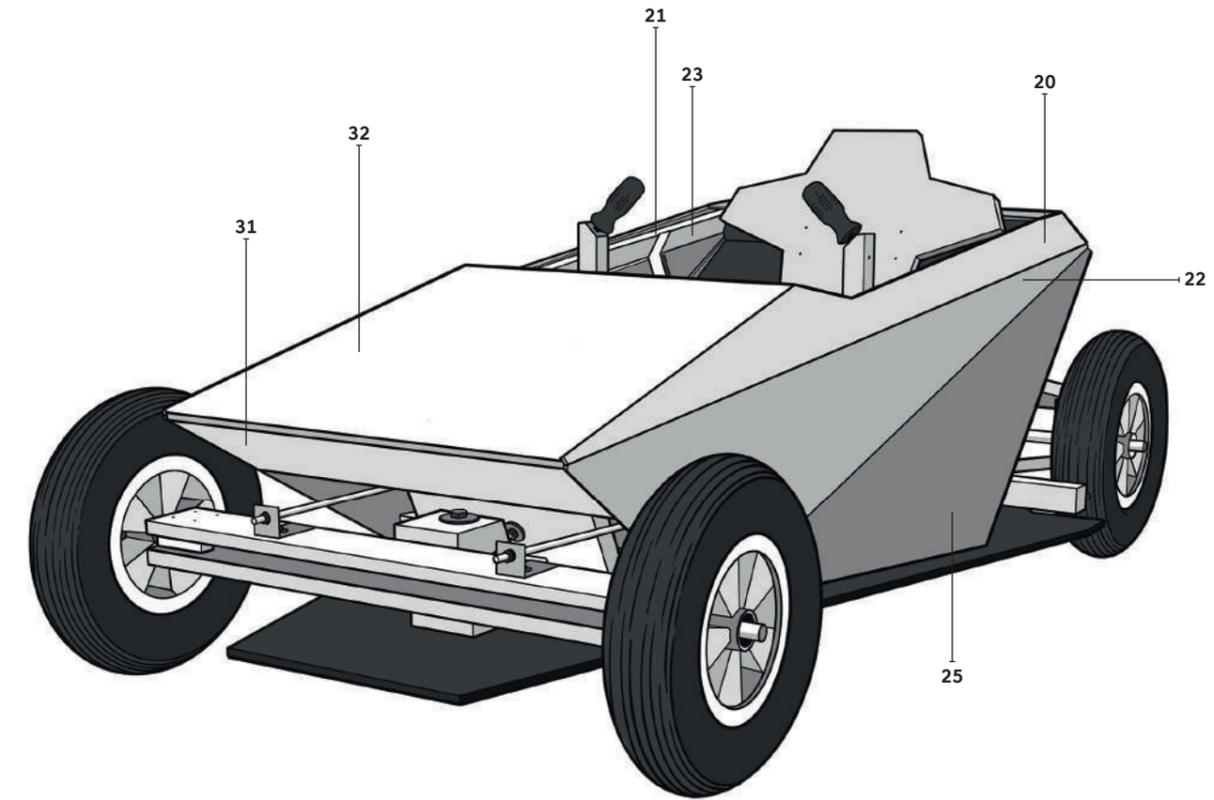
Now the joysticks are linked to the front steering axle by thin metal rods. Between the parallel running metal rods the bracket for the accelerator and brake pedal is mounted on the central brace. These are placed on a plate, which is screwed to the bracket at an angle of 30 degrees. The chassis is taking shape.



The bottom panel is attached. When doing so, it is important to note that its longer rear end is in line with the rear cross brace, but in return it protrudes around 15 centimeters beyond the front steering axle. At the height of the two joysticks, two upwardly tapering rectangles are milled into the bottom panel, which is supplemented by an overlying triangular milling at the height of the accelerator and brake pedal.



In the fifth step, the tyres are finally attached to the chassis. It is important to make sure that the screws have a tight fit, so that the tyres do not come off the steering axles at full speed.



In the last step the fairing is attached to the chassis. For this purpose, the front fairing has to be placed on the two side plates. In the rear part of the soapbox another plate, which is angled downwards, rounds off the fairing. Now it's time to get creative: **The colouring of the fairing is up to you!**