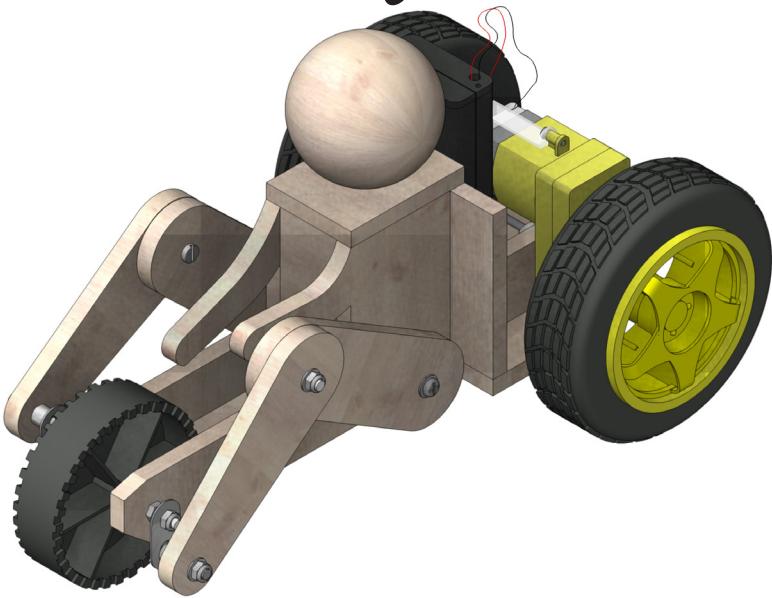
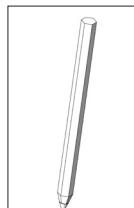


Reclining Vehicle with Gear Motor



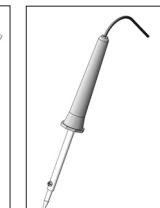
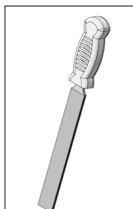
Tools Required:

Fretsaw or
Fine Saw

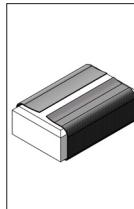
Pencil



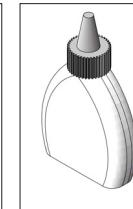
Ruler

Soldering Iron
and Solder

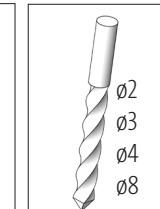
File



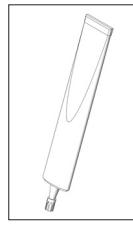
Sandpaper



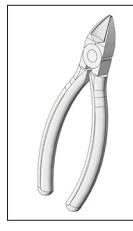
Wood Glue



Drill



Superglue



Side Cutter

Phillips
Screwdriver

Spanner

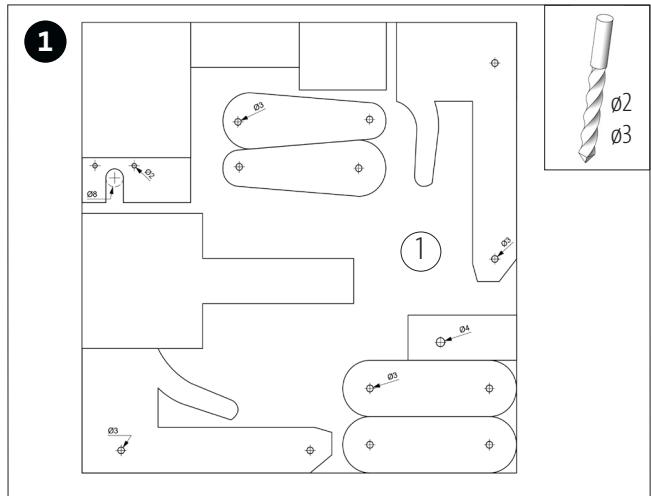
Slot Screwdri-
ver

Please Note!

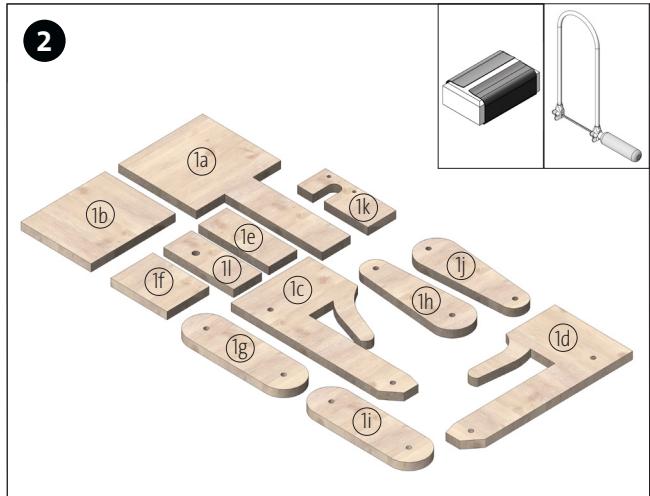
Bei den OPITEC Werkpackungen handelt es sich nach Fertigstellung nicht um Artikel mit Spielzeugcharakter allgemein handelsüblicher Art, sondern um Lehr- und Lernmittel als Unterstützung der pädagogischen Arbeit. Dieser Bausatz darf von Kindern und Jugendlichen nur unter Anleitung und Aufsicht von sachkundigen Erwachsenen gebaut und betrieben werden. Für Kinder unter 36 Monaten nicht geeignet. Erstickungsgefahr!

Parts List	Quantity	Size (mm):	Description	Part No.
Plywood	1	200x200x5	Base Plate	1
Wooden Ball	1	ø40	Head	2
Threaded Rod	1	ø3x100	Front Axis	3
Gear Motor	1		Drive	4
Welding Wire	1	ø2x100	Rear Axis	5
Large Wheel	2	ø70	Rear Wheel	6
Steering Wheel	1	ø51	Front Wheel	7
Flat Rod	2		Drive Legs	8
Battery Holder with Switch	1		Power Source	9
Pan head countersunk-head tapping screw	4		Mounting Gear/Legs	10
Reducing Pieces	1	4/2	Reduction Rear Wheel/Axle	11
Distance Rollers	4	5	Spacers	12
Cylinder Head Screw	4	ø3x16	Screw Connection	13
Washer	10	7/3,2	Bracket	14
Nut	4	M3	Bracket	15
Stop Nut	6	M3	Bracket	16

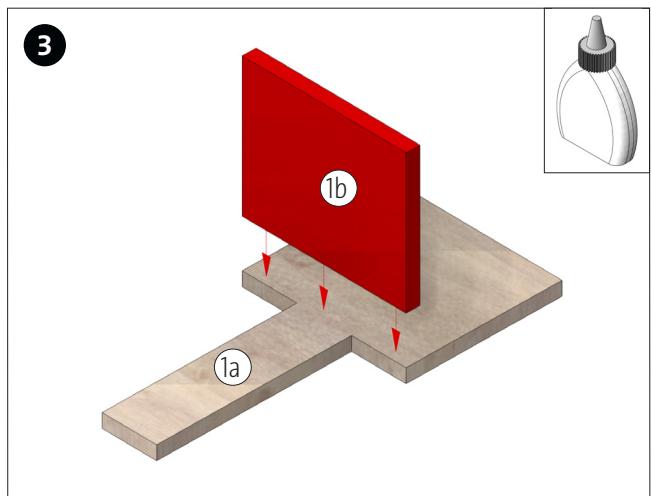
Building instruction 120841 Reclining Vehicle with Gear Motor



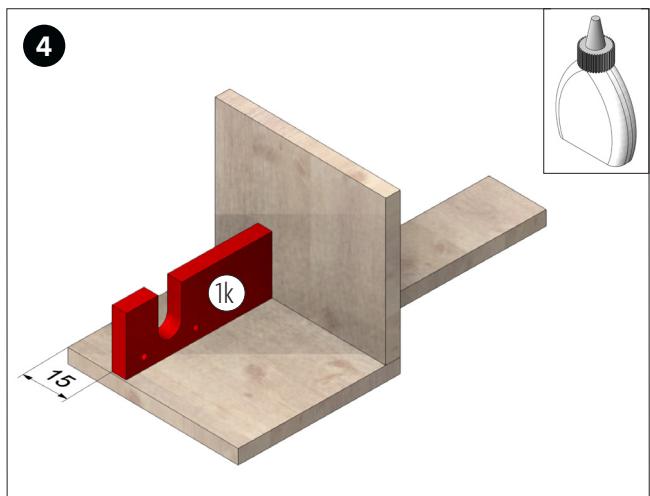
Transfer the template (A) to the base plate (1). Drill all holes ($\varnothing 2, \varnothing 3\text{mm}$).



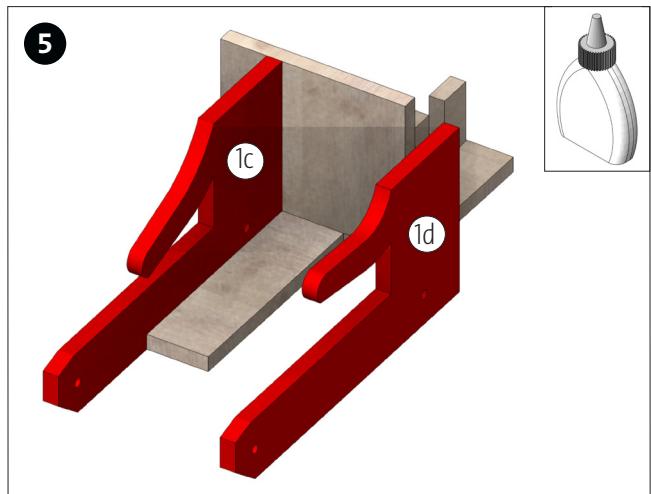
Saw off all parts and clean with sandpaper.



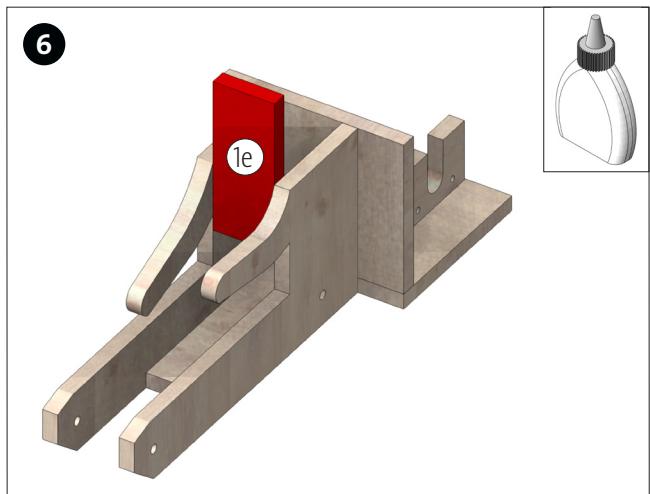
Apply the back wall (1b) to the base plate (1a) as shown.



Apply glue to the rear trim (1k) according to dimensioning or illustration. Let the glue dry well.

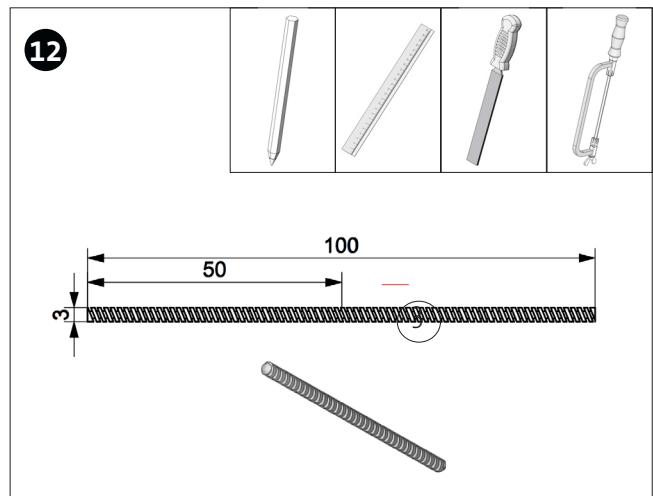
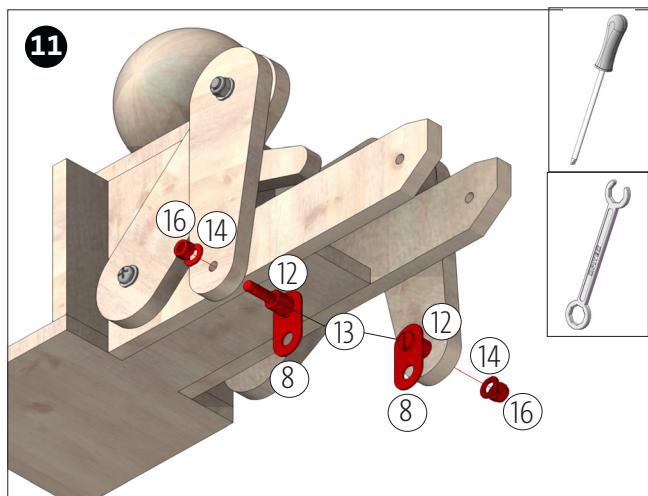
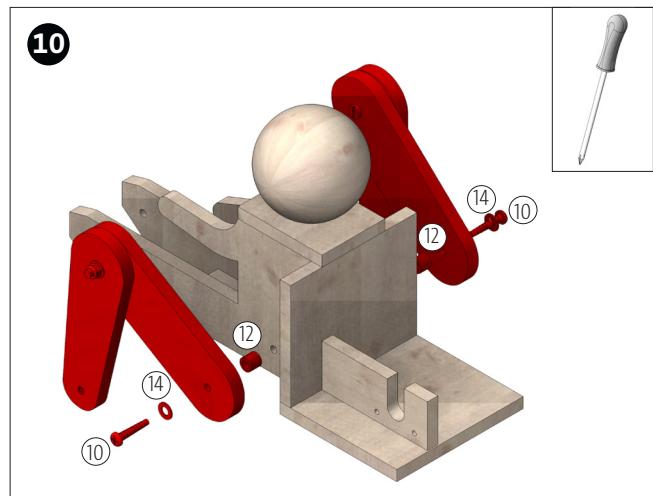
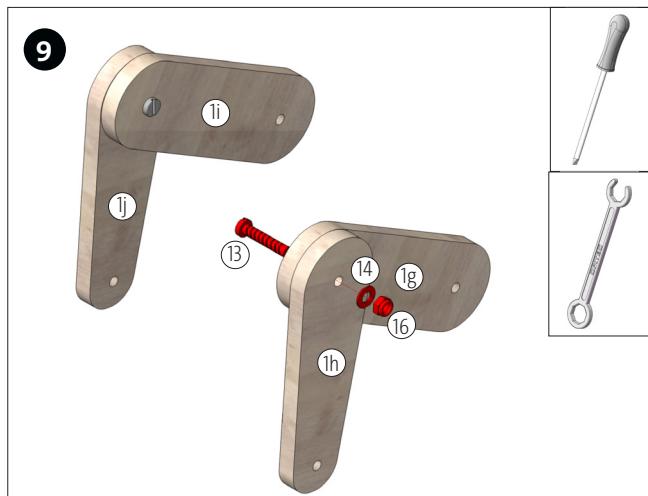
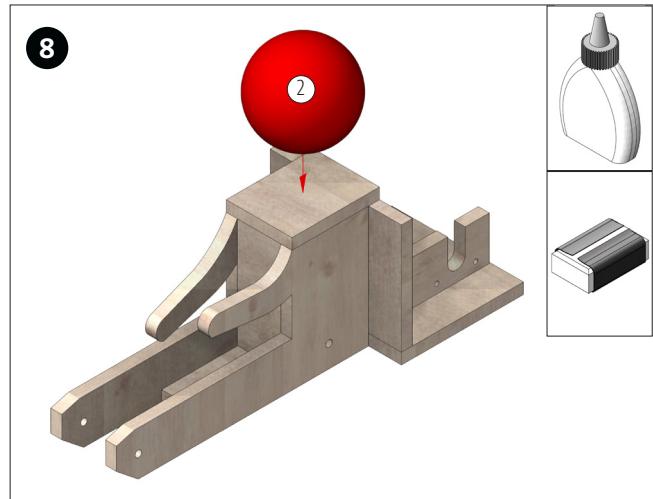
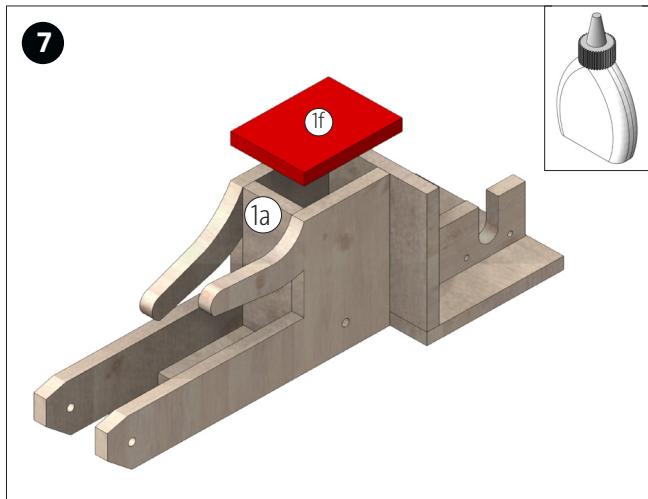


Glue the two side parts flush with the lower edge of the base plate (1a) and level with the rear wall (1b) as shown. Let the glue dry well.

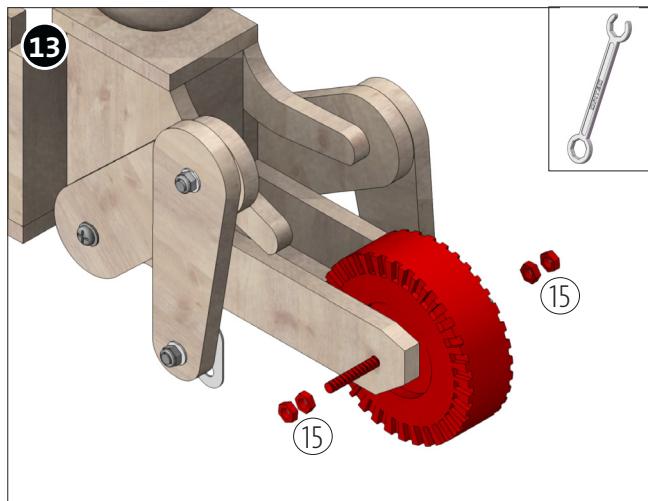


Glue the vertical middle section (1e) from above as shown.

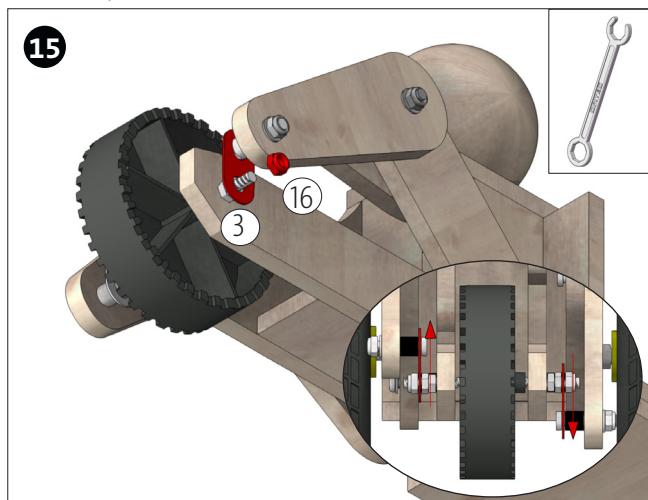
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Reclining Vehicle with Gear Motor



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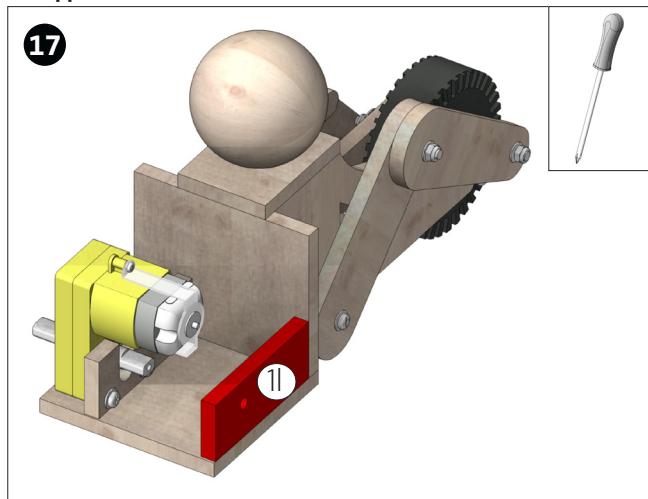


Place the cut threaded rod with the front wheel (7) between the fork. Fix from both sides with two nuts each (15) so that the wheel can rotate freely.

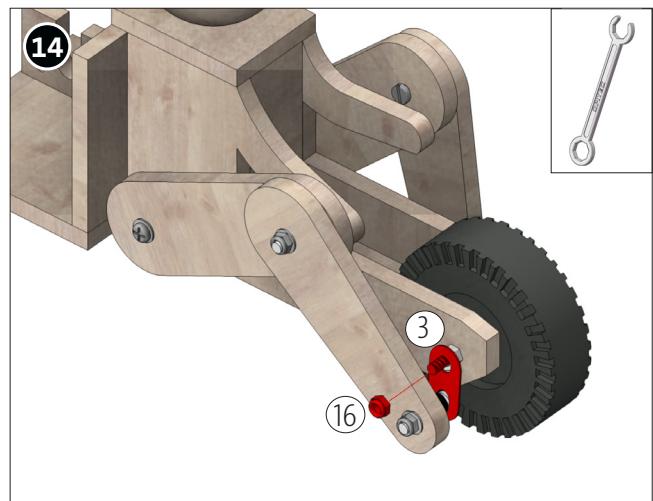


Fix the right leg as described in point 14 as well.

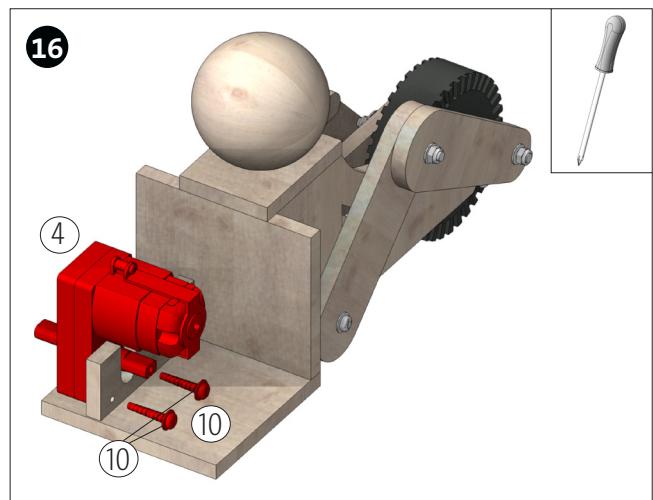
Note: 1 Make sure that the position of the flat bar is 180° offset from the opposite flat bar.



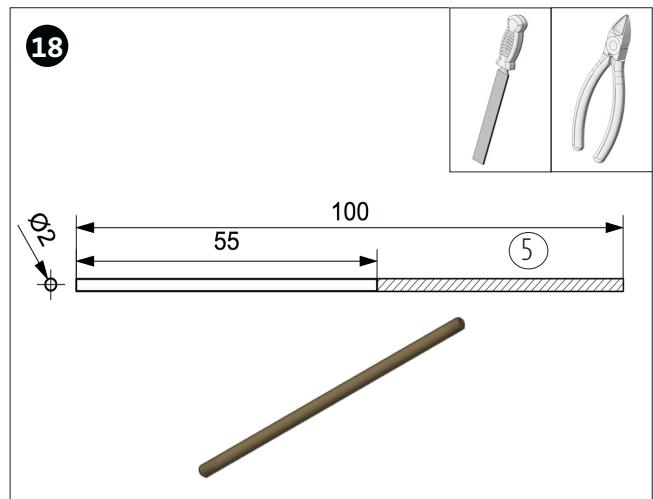
Then glue part (11) flush with the side edge as shown.



Attach the flat bar (8) of the left leg to the front axle (3) and secure it with a stop nut (16).

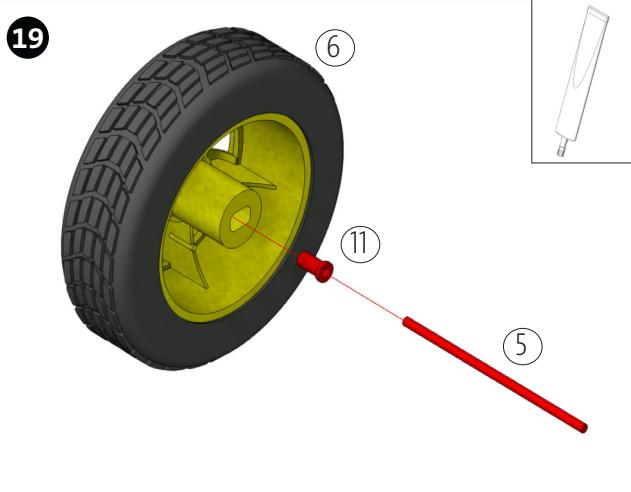


Screw the geared motor (4) to the rear part 1k with two screws (10) and two washers (14) as shown.

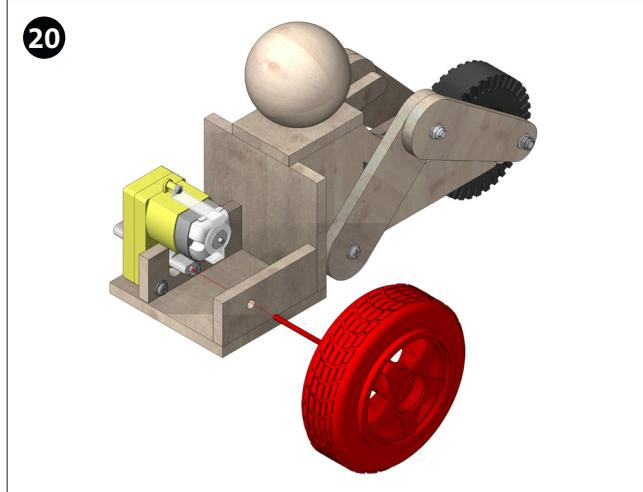


Cut 55mm from the welding wire (5) and deburr both ends with the workshop file.

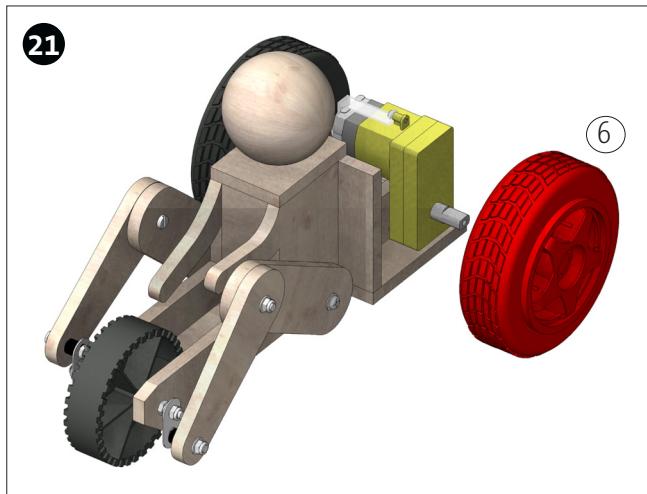
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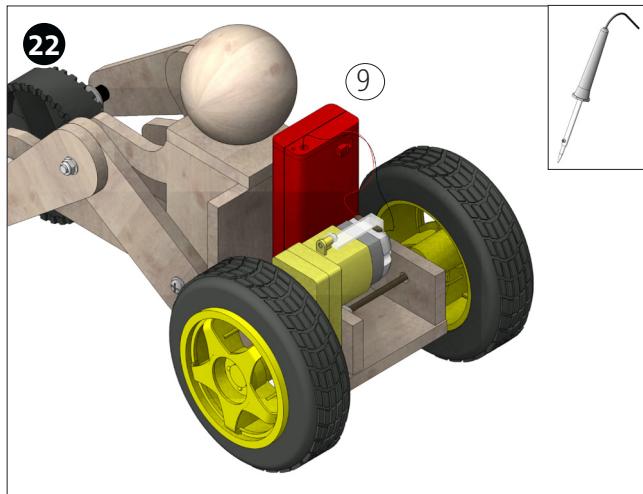
Insert the axle into the reducer (11) and then insert into the bore of a rear wheel (6). If necessary, glue in the reducer with superglue.



Then guide the axle with the wheel through the hole in the part (11) and insert it in the shaft of the gearbox.



Attach the second rear wheel (6) to the transmission axle as shown.



Solder the red cable of the battery holder (9) to the positive pole of the motor (in the front direction of travel) and the black cable to the negative pole (in the rear direction of travel).

