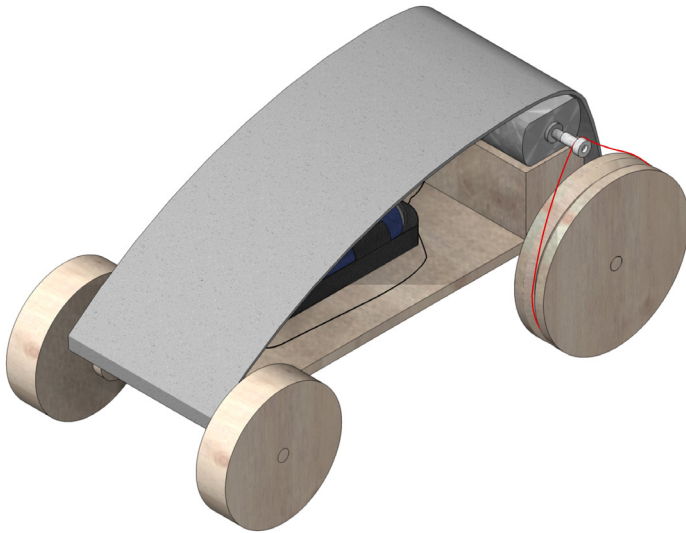


211.470

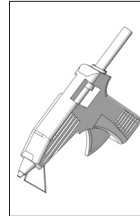
# Electric Vehicle with Belt Drive



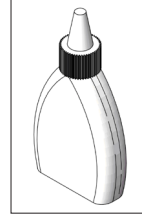
## Please Note!

The Opitec Range of projects is not intended as play toys for young children. They are teaching aids for young people learning the skills of craft, design and technology. These projects should only be undertaken and operated with the guidance of a fully qualified adult. The finished projects are not suitable to give to children under 3 years old. Some parts can be swallowed. Danger of suffocation!

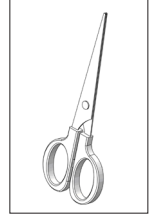
## Tools Required:



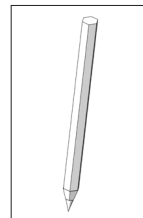
Hot Glue Gun



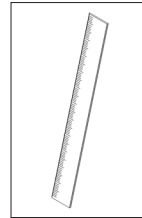
Wood Glue



Scissors



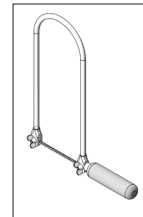
Pencil



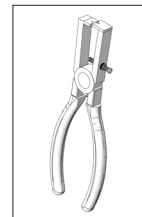
Ruler



Craft Knife



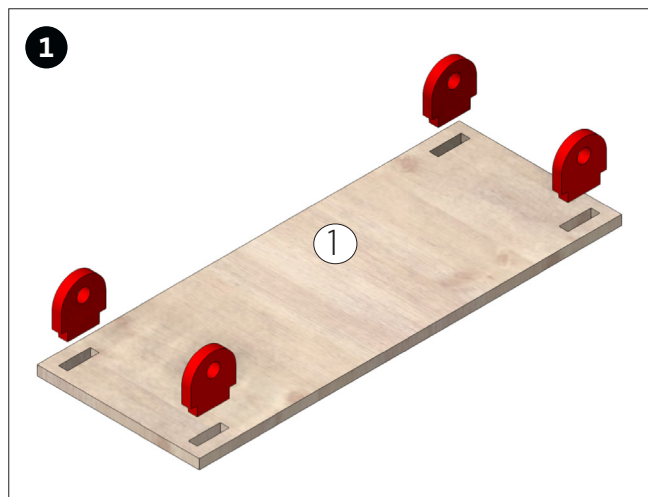
Jigsaw



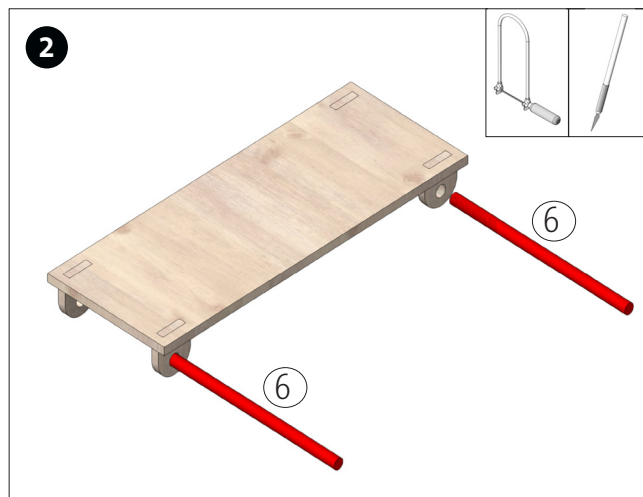
Insulated Wire Strippers

Parts List	Quantity	Size (mm)	Designation	Part No.
plywood base plate, small	1	130x50x3	base plate	1
wooden strip	1	50x20x20	bracket motor & switch	2
wooden wheel	2	ø40	front wheel	3
wooden wheel	1	ø50	rear wheel	4
pulley	1	ø50	drive wheel	5
rod	2	ø4x100	axis	6
rubber ring	1	ø40	drive	7
reducer	1	4/2	engine essay	8
grey cardboard	1	210x150x1	construction	9
push switch	1	29	switch	10
motor	1		motor	11
battery holder	1		battery	12

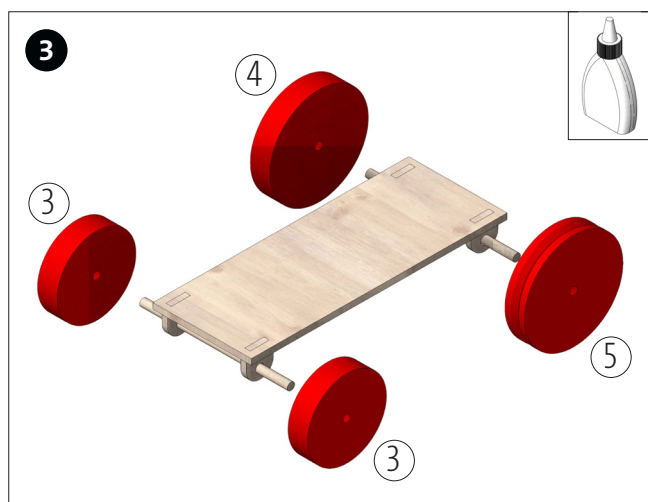
**Instruction 211.470**  
**Electric Vehicle with Belt Drive**



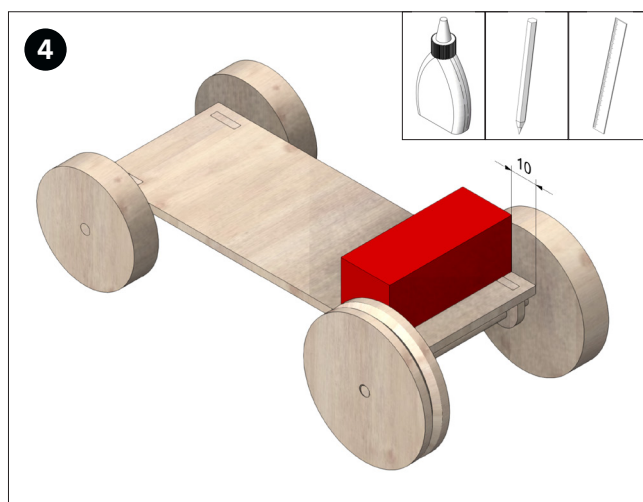
Insert the 4 axis holders into the base plate as shown.



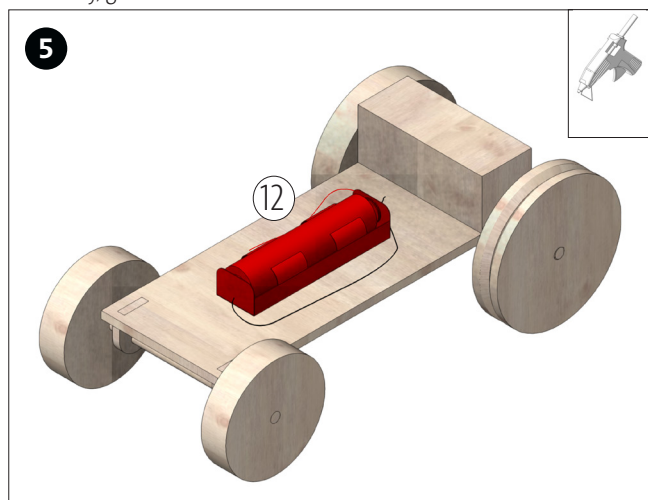
Shorten the two axis (6) to a length of 75 mm and then insert them into the axis holders as shown.



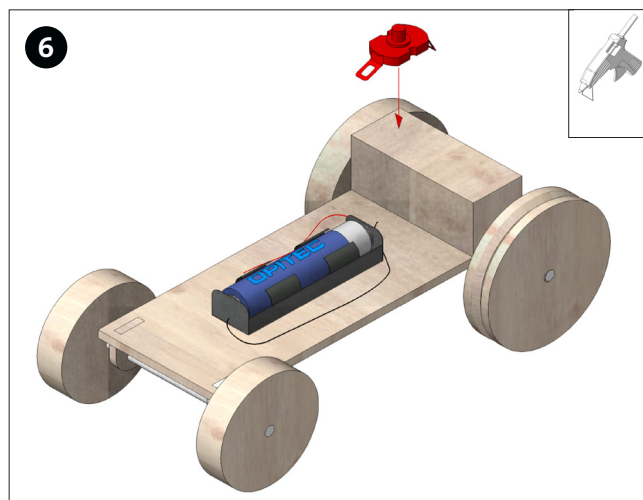
Attach the two front wheels (3) to the front axis. Attach the rear wheel (4) to the left of the rear axis and the drive wheel (5) to the right. If necessary, glue.



Measure 10 mm at the rear edge of the base plate and glue the wooden strip (2) to the base plate.

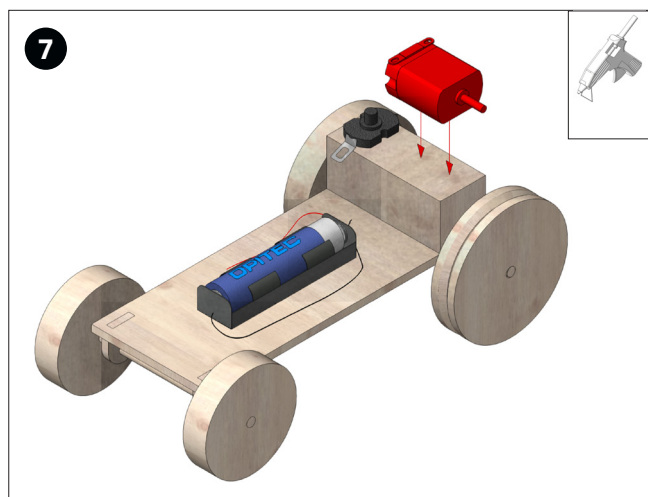


Affix the battery holder (12) to the base plate with hot glue as illustrated.

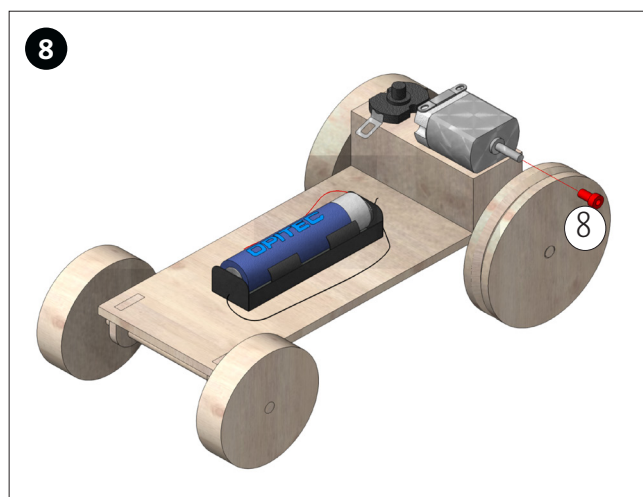


Glue the push switch (10) to the rear wheel side of the wooden strip as shown.

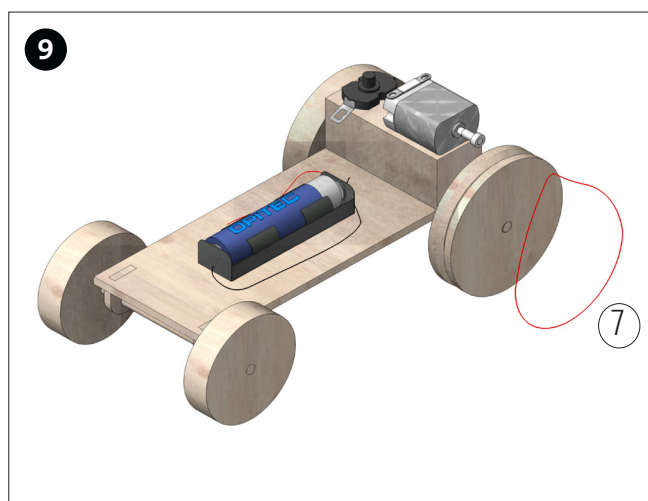
**Instruction 211.470**  
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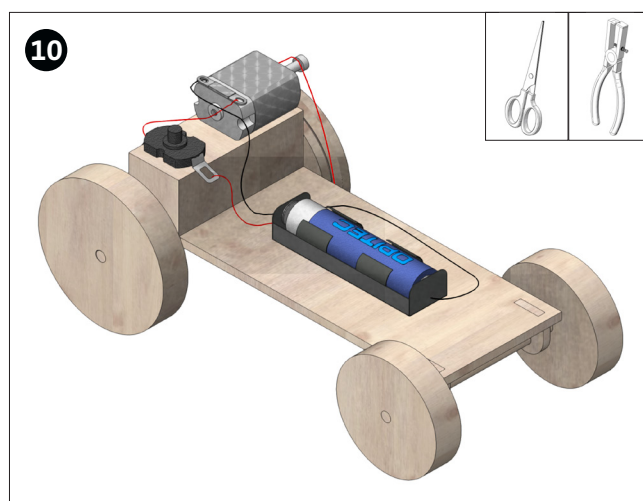
Glue the motor with the connections upwards on the wooden strip so that the axis is above the drive wheel.



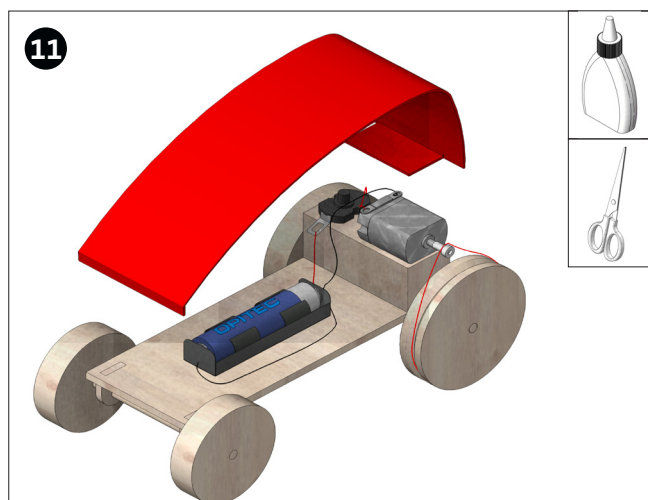
Place the reducer (8) on the motor axis.



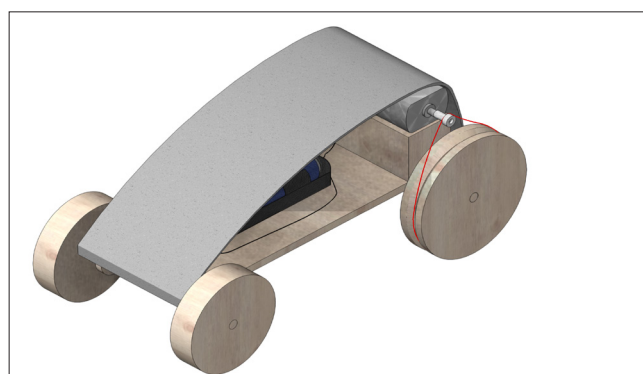
Place the rubber ring (7) on the pulley (6) and the reducer (8) as shown.



Cut the red cable of the battery holder in half and strip all ends. Connect the red cable of the battery holder to the switch connection as shown. Connect the red cable at the other end of the switch and the +pole of the motor (marked with a dot). Attach the black cable of the battery holder to the free motor connection.



Transfer the body template (page 5) to the grey cardboard (9), cut it out and fold it along the dashed lines. Then put on and glue the flaps to the underside with wood glue.



Done!



Instruction 211.470  
Electric Vehicle with Belt Drive

Template Grey Cardboard  
S 1:1

