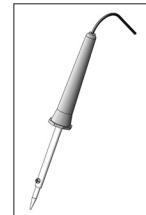
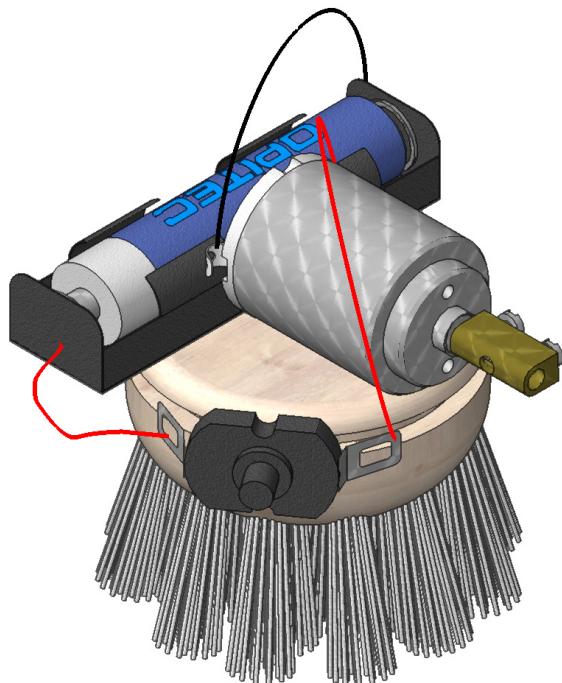


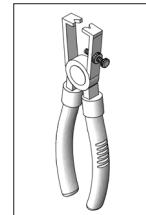
113.794

EasyLine Running Brush Whirlwind

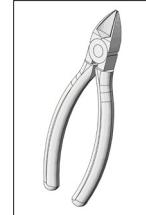
Tools Required:



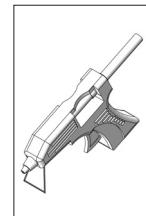
soldering iron



wire stripper



side cutters



hot glue gun



slot screwdriver

Please Note:

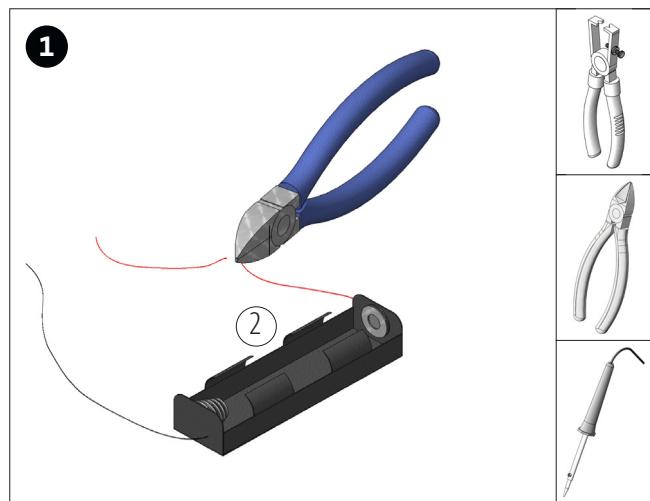
The Opitec Range of projects is not intended as play toys for young children. They are teaching aids for young people learning the skills of craft, design and technology. These projects should only be undertaken and operated with the guidance of a fully qualified adult. The finished projects are not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

Parts List	Quantity	Size (mm)	Designation	Part No.
brush head	1	ø40	brush	1
battery holder	1	1 x Mignon AA		2
pressure switch with lugs	1	19x6	on/off switch	3
motor R20	1		drive	4
lustre terminal insert	1		unbalanced weight	5
screw	2	3x8	attachment unbalance	6

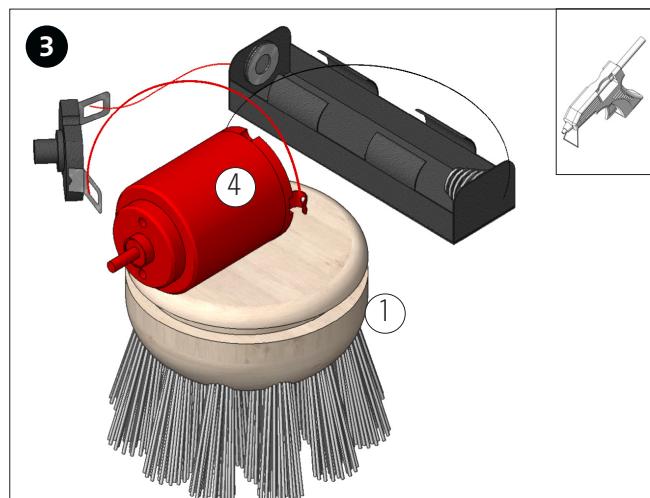
Instruction 113.794

EasyLine Running Brush Whirlwind

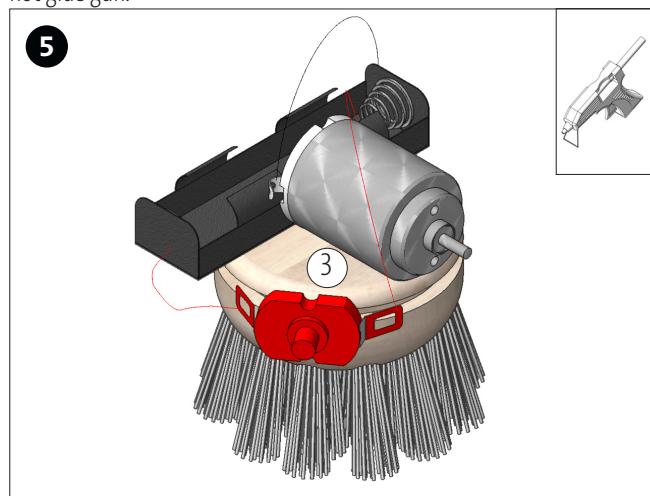
Note: The cables can also be connected by twisting them. Soldering is described in the instructions.



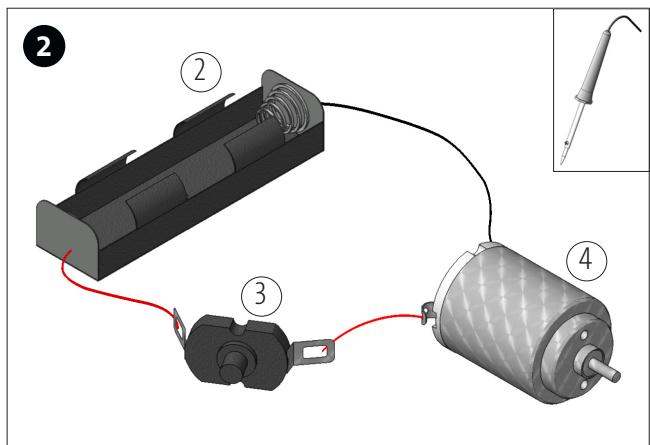
Cut the red cable of the battery holder (2) in half, strip all cable ends approx. 5 mm and tin/twist them.



Glue the motor (4) onto the brush (1) in such a way that the motor axis and a part of the motor housing protrude over the brush edge. Use hot glue gun.

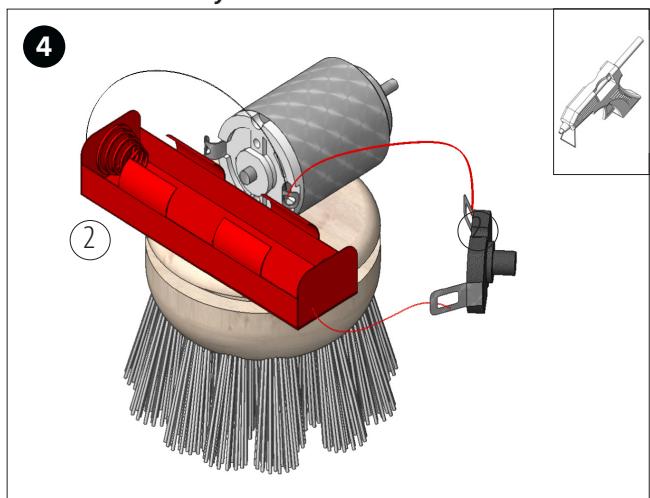


Stick the switch (3) to the remaining area of the brush as shown.

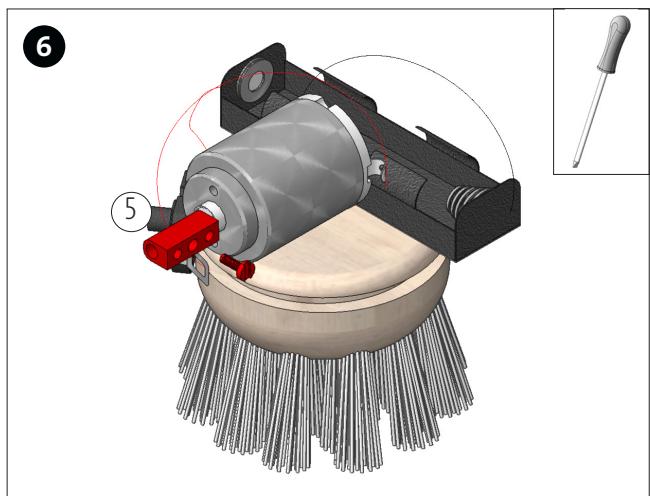


Solder the red cable of the battery holder (2) to a switch connection (3). Solder the red cable piece to the other switch connection as well as to the positive pole (marked with a circle) of the motor (4). Solder the black cable of the battery holder to the free motor connection (4).

Note: Insert the battery and check its function!

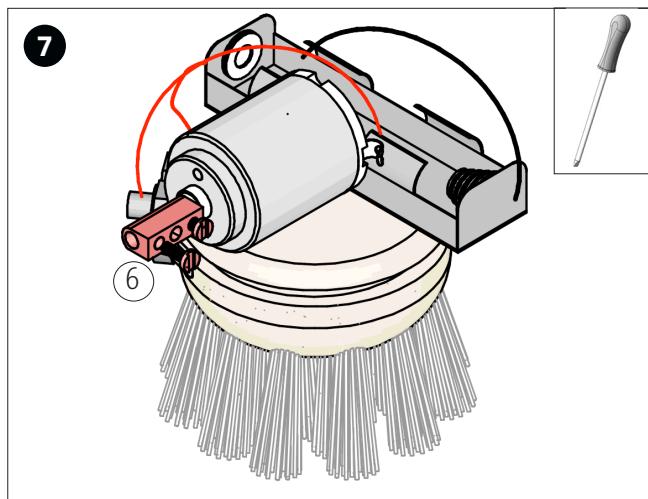


Glue the battery holder (2) centered on the brush (1) behind the motor by using hot glue. See picture.

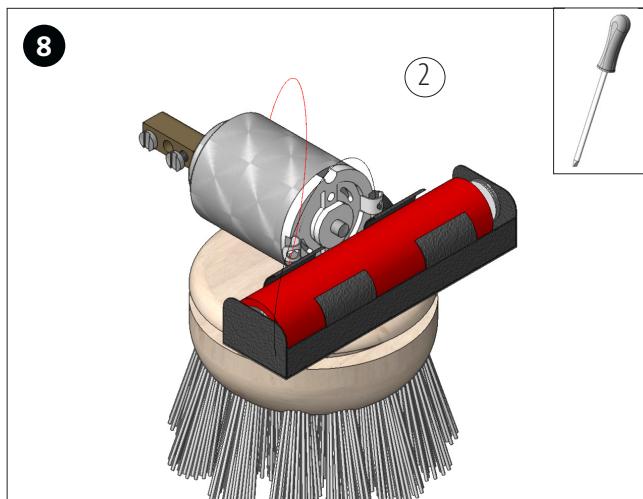


Screw the luster terminal insert (5) onto the motor shaft with a screw (6) as illustrated.

Instruction 113.794
EasyLine Running Brush Whirlwind



Screw the second screw (6) into the outer hole of the luster terminal insert.



Insert a Mignon battery into the battery holder (2).
Finished!

When the switch (3) is pressed, the brush moves uncontrollably back and forth. You can let several brushes run through a labyrinth and the fastest one is the winner. It is also possible to dip the brush in paint and paint patterns on a sheet of paper or a smooth surface.