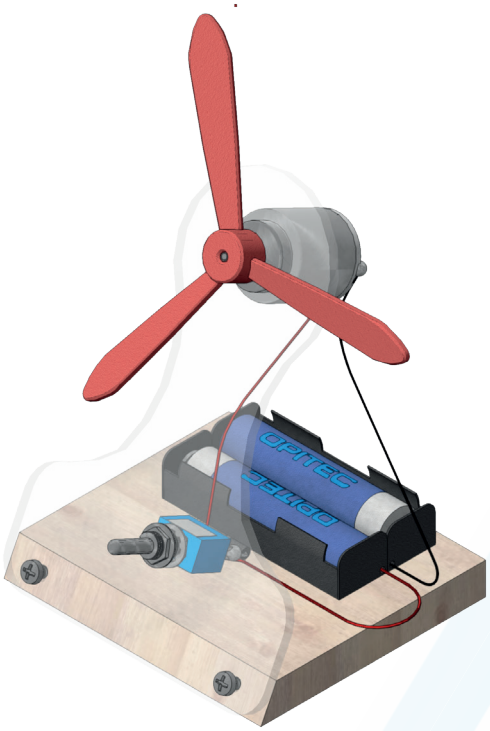
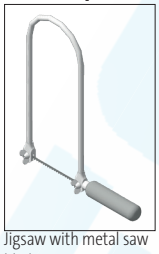
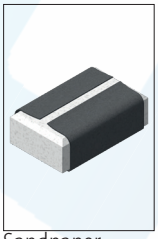
105.163

Table fan with 2 speeds

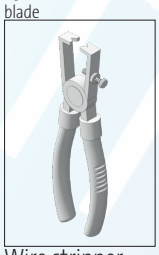


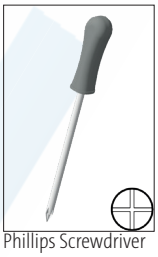
Tools Required:


Jigsaw with metal saw blade


Sandpaper


Pricker

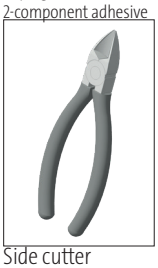

Wire stripper


Phillips Screwdriver


Superglue/ 2-component adhesive


Spanner


File

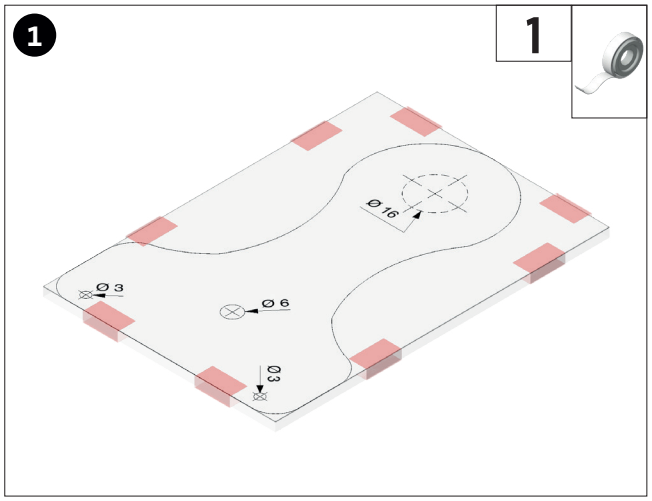

Side cutter

NOTE:

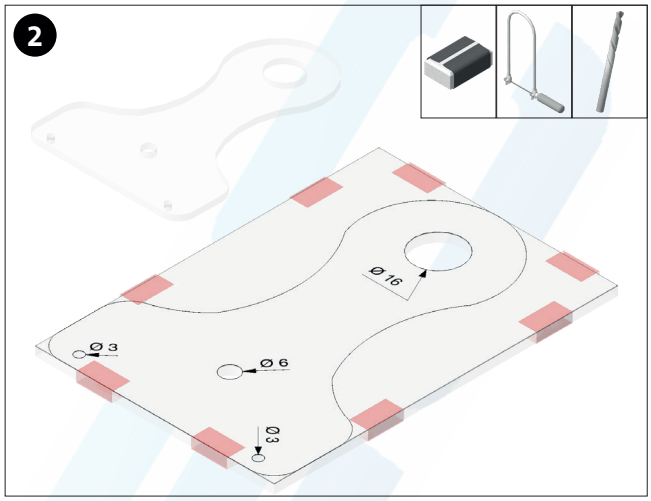
The OPITEC range of projects is not intended as play toys for young children.They are teaching aids for young people learning the skills of Craft, Design and Technology.These projects should only be undertaken and tested with the guidance of a fully qualified adult. The finished projects are not suitable to give to children under 3 years old. Some parts can be swallowed. Danger of suffocation! Not suitable for children under 36 months. Choking hazard!

Part List	Quantity	Dimensions (mm)	Description	Part no.
Acrylic glass	1	115x80x3	Acrylic glass	1
Plywood	1	80x70x10	Base plate	2
Motor R140	1	ø21	Drive	3
Toggle Switch	1		Switch	4
Battery holder 2xAA	1		Power source	5
Propeller 1-piece	1	ø115	Propeller	6
Diode	1		Diode	7
Electrical wire red	1	500	Wiring	8
Tapping screw	4		Fastening	9

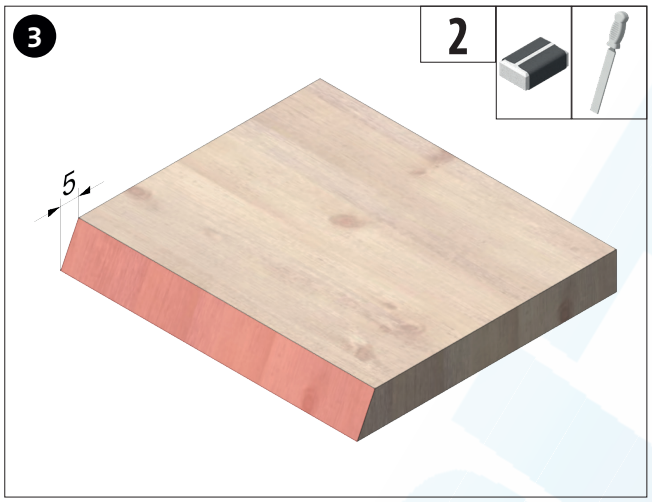
OPITEC



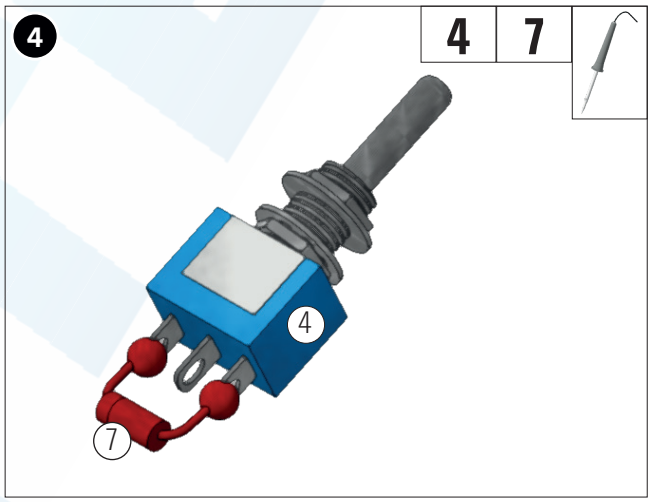
Transfer the template (A) for the motor bracket to the acrylic glass plate (1) or stick it on as shown.



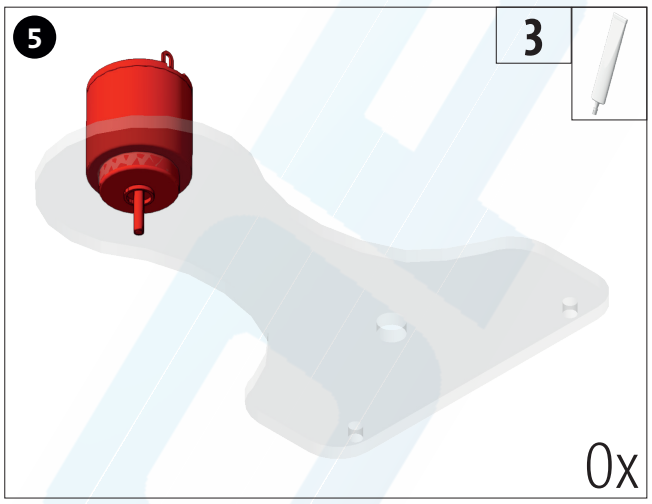
Drill through the ø 3mm and ø 6mm holes. Saw out the ø 16mm opening for the motor with the fretsaw. Then saw out the motor mount along the outer contour. Clean the saw cuts.



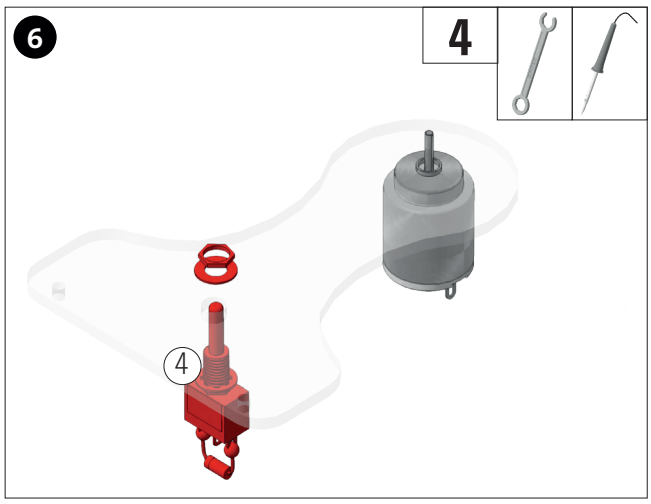
Bevel the front edge of the plywood panel with a wood file or sandpaper as shown.



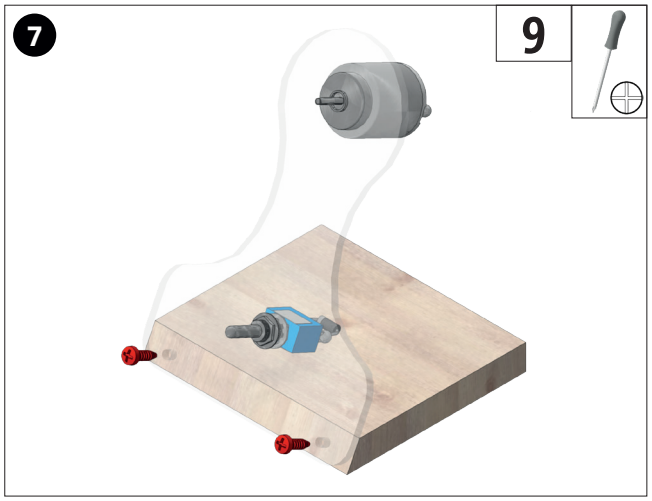
Solder the diode (7) between the two outer connections of the toggle switch (4).



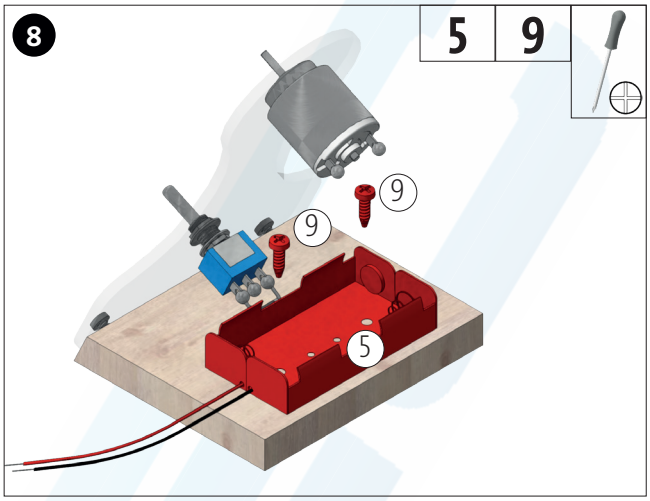
Glue the motor (3) into the ø 16 mm opening of the motor bracket using superglue or 2-component adhesive.



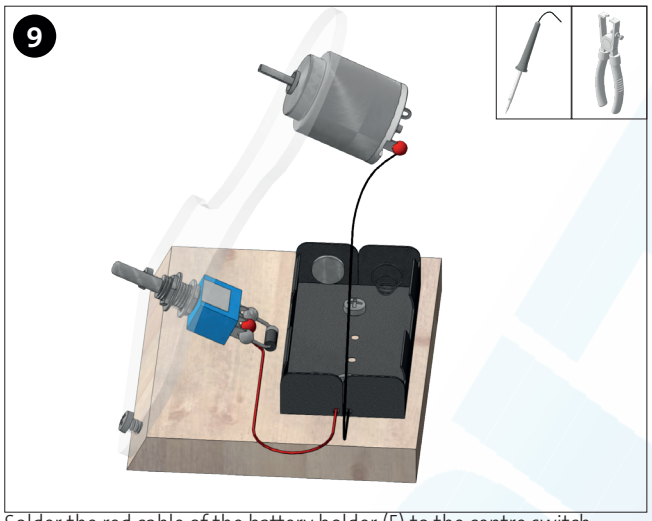
Place the toggle switch (4) including diode in the ø 6 mm hole and fasten from above with the corresponding union nut.



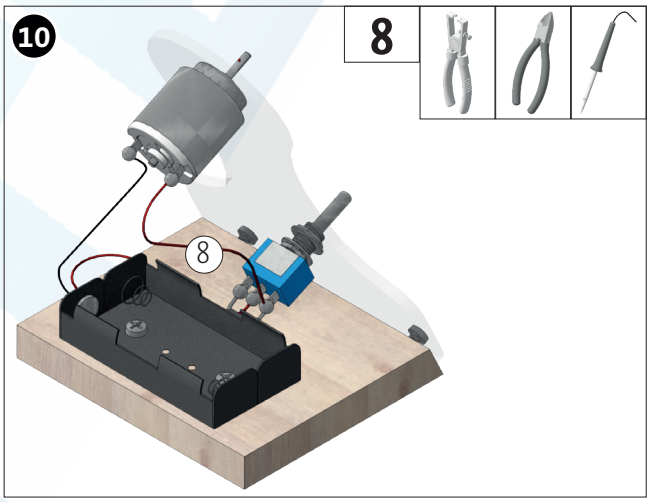
Screw the motor bracket (1), incl. motor and switch, to the bevelled edge of the plywood panel using 2 screws (9).



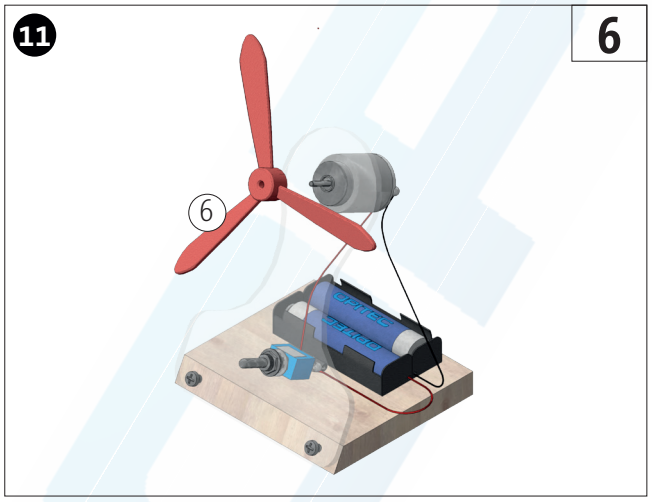
Fasten the battery holder (5) to the plywood panel (2) with 2 screws (9).



Solder the red cable of the battery holder (5) to the centre switch connection. Solder the black cable to the negative pole of the motor.



Cut a sufficiently long connecting piece from the switching wire (8) and solder it between the free motor connection and the right-hand switch connection (see illustration).



Attach the propeller (6) to the motor axle. Insert the batteries (2xAA) in the battery holder. Check function! Done!

Instructions 105.163
Table fan with 2 speeds

Instructions 105.163
Table fan with 2 speeds

A (1:1)