

109058

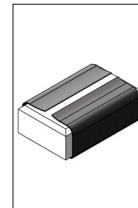
Easy Line Solar Propeller



Required Tools:



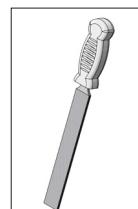
Phillips
Screwdriver



Sandpaper



Pliers



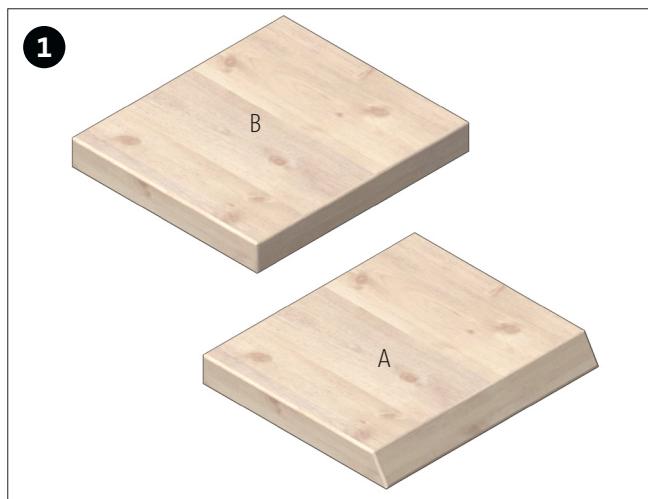
File

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)	Description	Part No.
Plywood	1	80 x 70 x 10 mm	Base plate	1
Acryl glass drilled trapezoidal	1	115 x 80 x 2	Motor holder	2
Solar cell encapsulated 0,5 V	1	75 x 45 x 0,5 mm	Power source	3
Propeller 3 bladed	1	Ø 10		4
Solar motor RF 300	1	Ø 24	Drive	5
Pan head cross tapping screws	2	2,9 x 9,5	Fastening	6
Pan head cross tapping screws	2	2,9 x 13	Fastening	7
Drawing pins	2		Fastening	8

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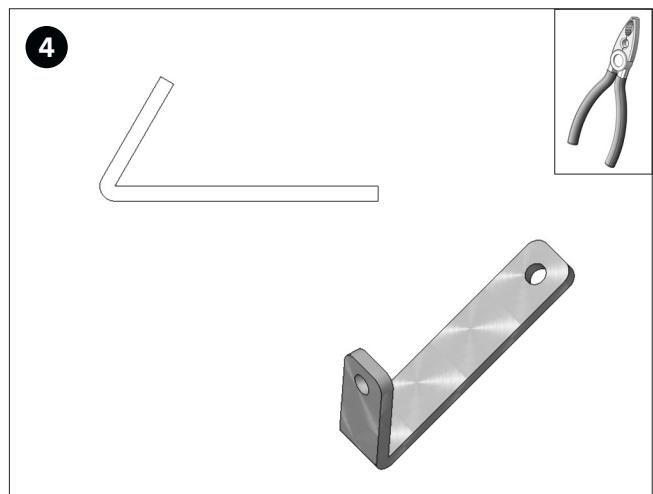
For option A, the base plate is beveled at an edge (80 mm) by approx. 30°. For option B, the base plate remains unworked.



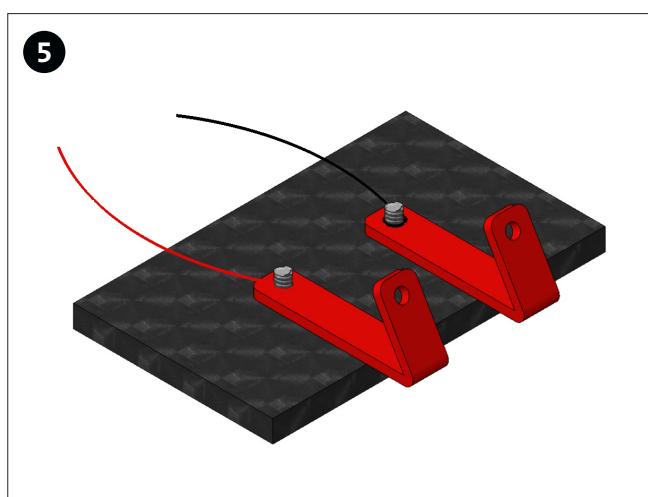
Option A: use a file and sandpaper to bevel one edge by approx. 30°.



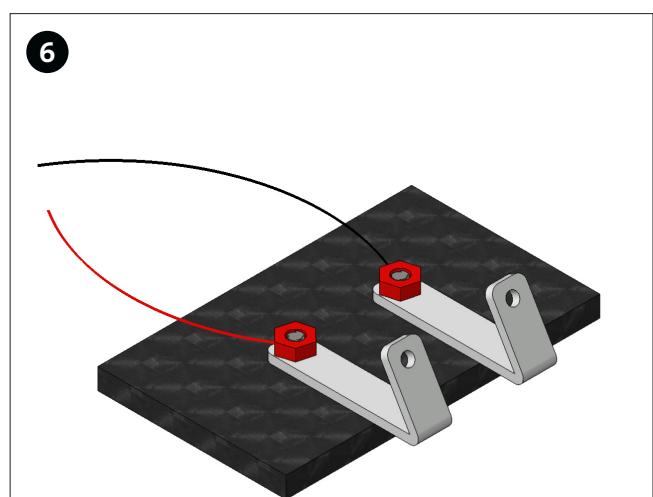
Screw the acrylic plate (2) with the screws (7) onto the edge of the plywood panel, as shown.



Using the pliers, bend both flat rods (these are attached to the solar cell) by 30° according to the above bending template.

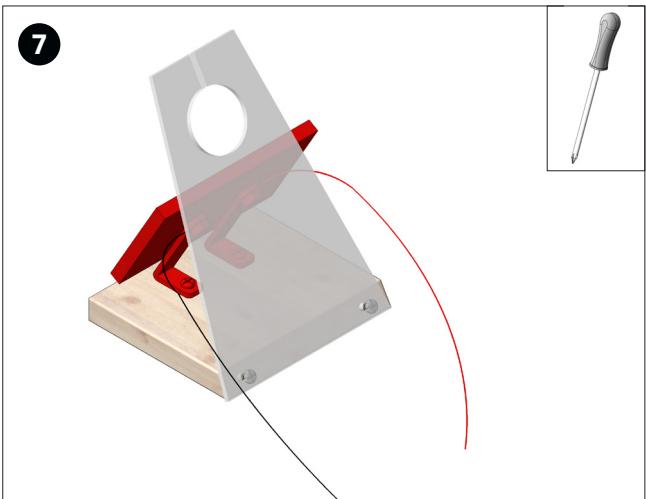


As shown, place the two bent flat rods over the solar cell terminals (3) and wrap the motor lead wires (5) around the terminals. **Note:** the red cable to the positive pole of the solar cell and the black cable to the negative pole of the solar cell!



Fasten the connection wires and the flat rods with a nut each.

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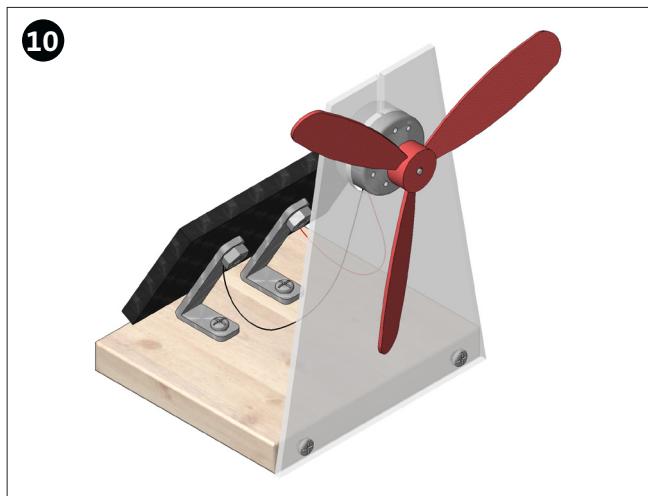
Fasten the solar cell to the base plate with the two screws (6) or the two drawing pins (8) as shown.



Insert the motor (5) into the pre-drilled bracket in the acrylic plate (see picture).



Insert the air propeller (4) onto the motor axle. Done!



Option B: Done! (Same construction)