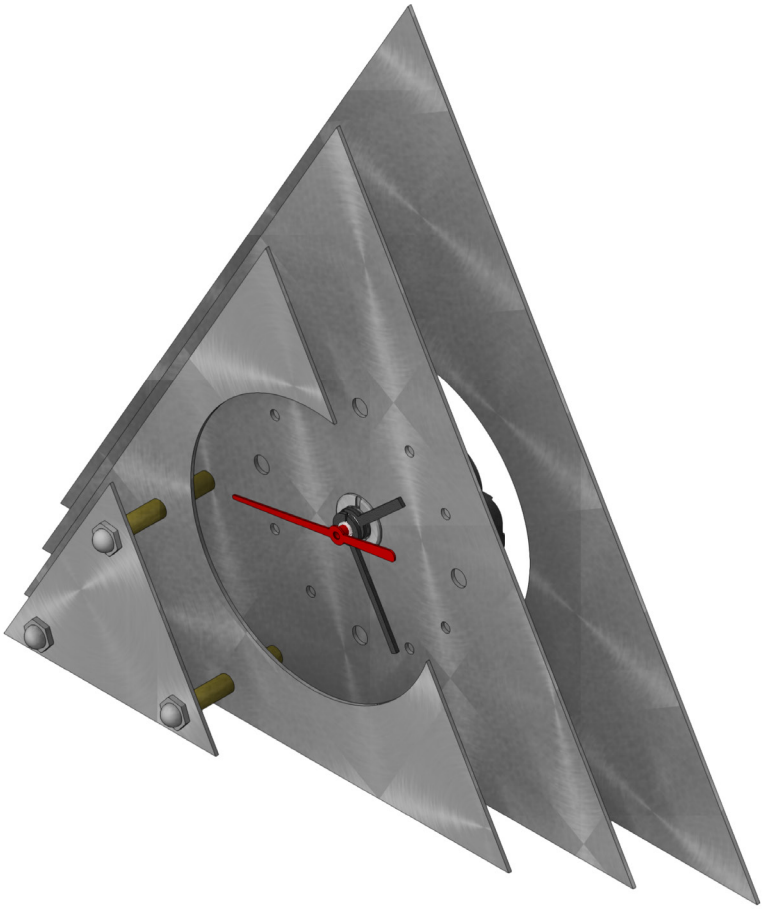
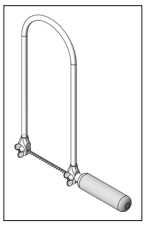
121.001

Designer Clock

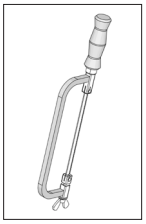


Required Tools:

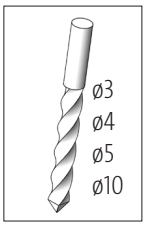


Jidsaw with metal blade

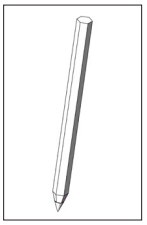
File



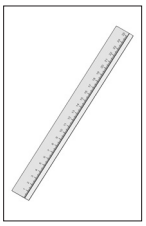
PUK Saw



Drill Bit

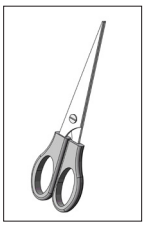


Pencil

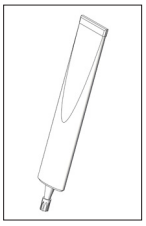


Ruler

Adhesive Tape



Scissors



All Purpose Glue

Slot Screwdriver

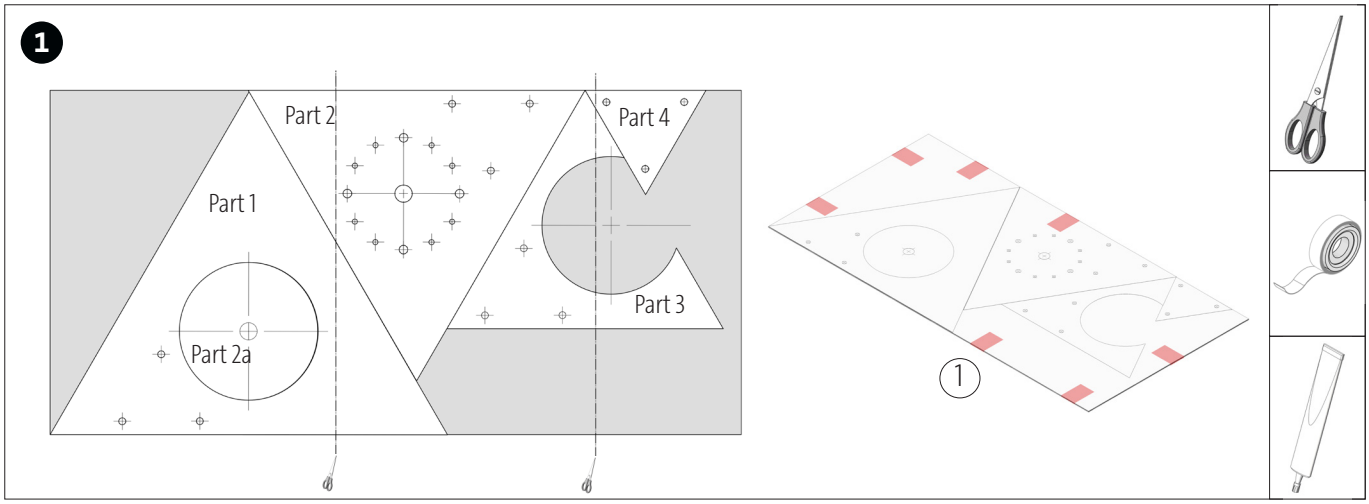
Wrench

Please Note:

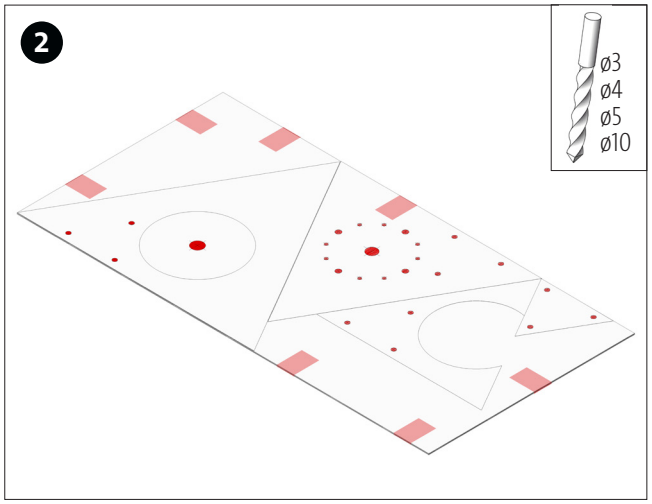
The Opitec Range of projects is not intended as play toys for young children. They are teaching aids for young people learning the skills of craft, design and technology. These projects should only be undertaken and operated with the guidance of a fully qualified adult. The finished projects are not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

Components List	Quantity	Sizes (mm)	Description	Part No.
Aluminium Plate	1	400x200x1	Housing	1
Quartz movement with fixing nut	1	55x55x15	Movement	2
Hour hand	1	25	Hour hand	3
Minute Hand	1	35	Minute Hand	4
Second Hand	1	70	Second Hand	5
Cylinder Head Screw	3	ø4x60	Fixing	6
Head nut	3	M4	Fixing	7
Brass casing	9	ø5x15	Spacers	8

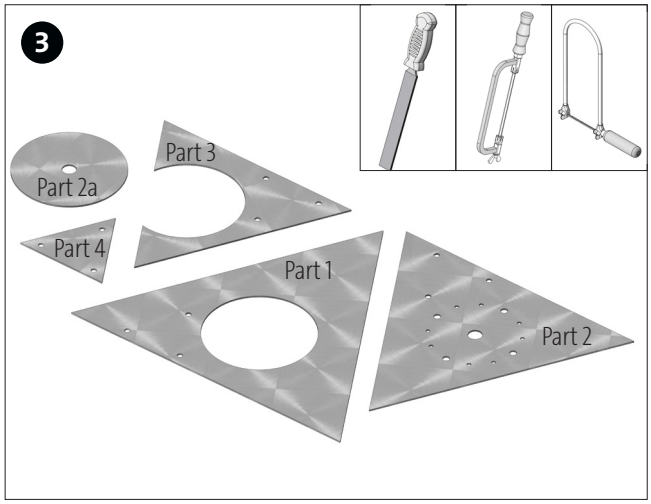
OPITEC



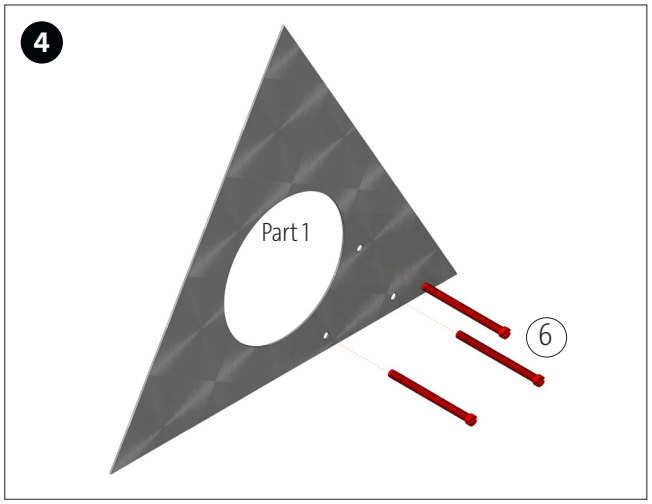
Cut out the template (page 4/6) and glue it together on the specific area. Then fix it to the aluminium plate (1) with adhesive tape.



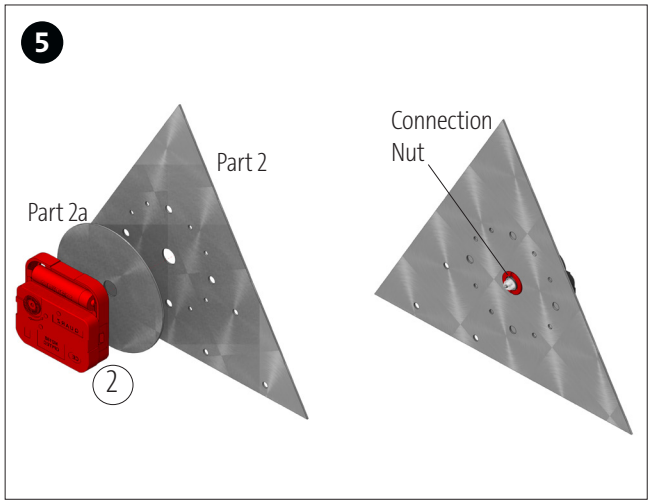
Drill all holes with the respective drill bit.



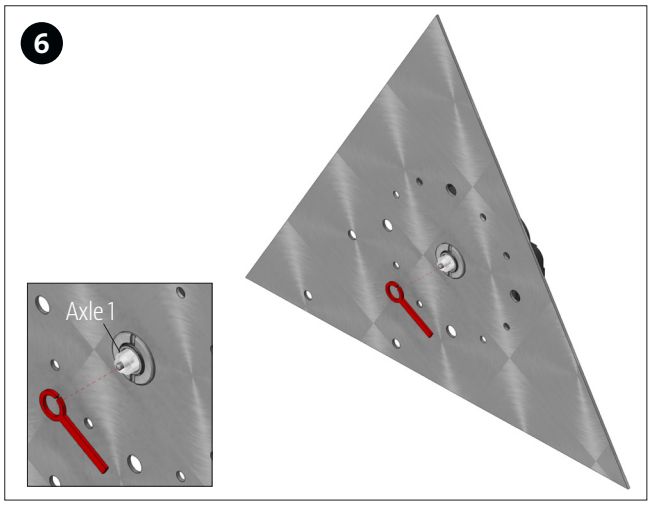
Saw out all single parts and deburr the saw cuts.



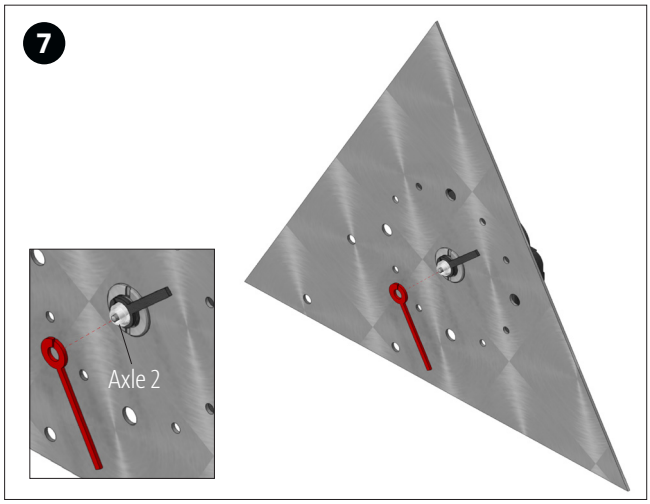
Insert the three cylinder head screws (6) on the back of part 1 as shown.



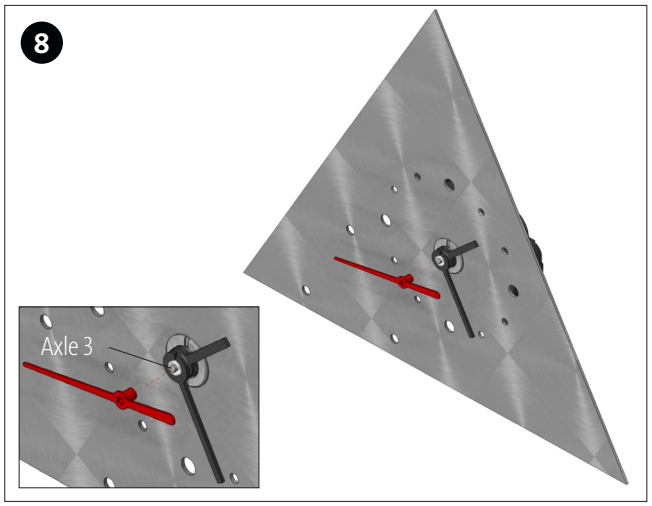
Insert part 2a and the quartz movement (2) on the back of part 2. Then fasten from the front the quartz movement with the connection nut.



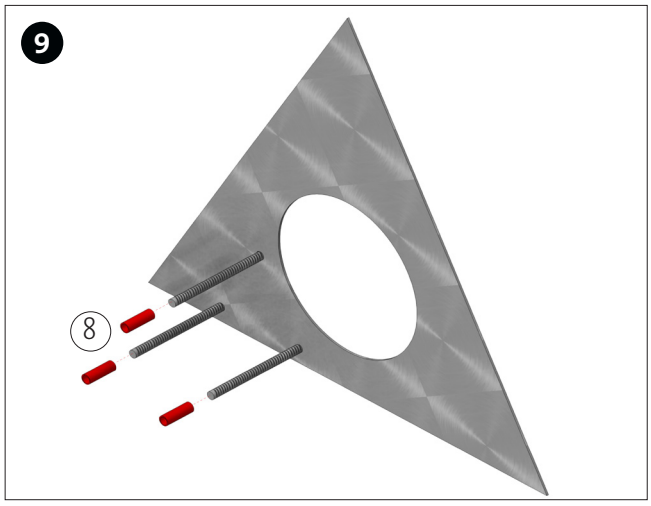
Insert the hour hand onto the quartz movement axle 1.



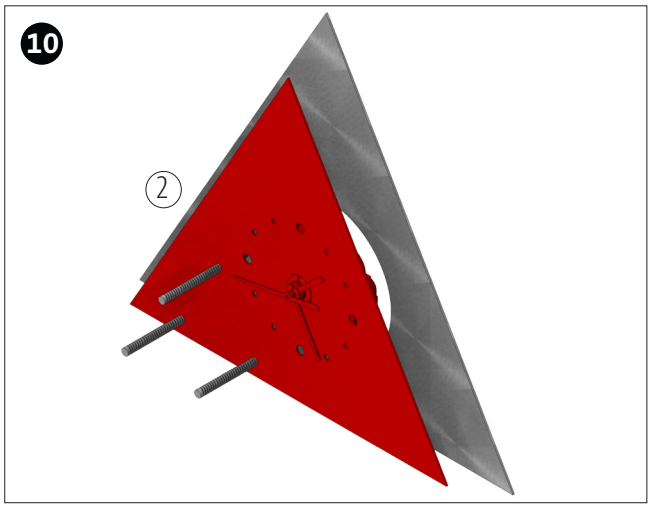
Insert the minute hand onto the quartz movement axle 2.



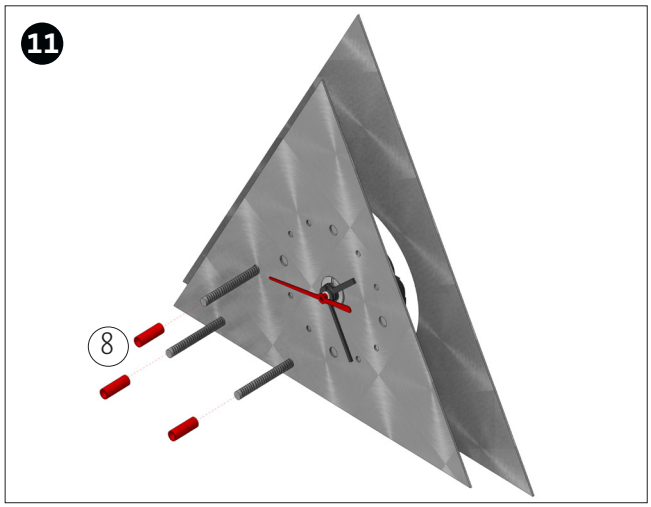
Insert the second hand on the quartz movement axle 3.



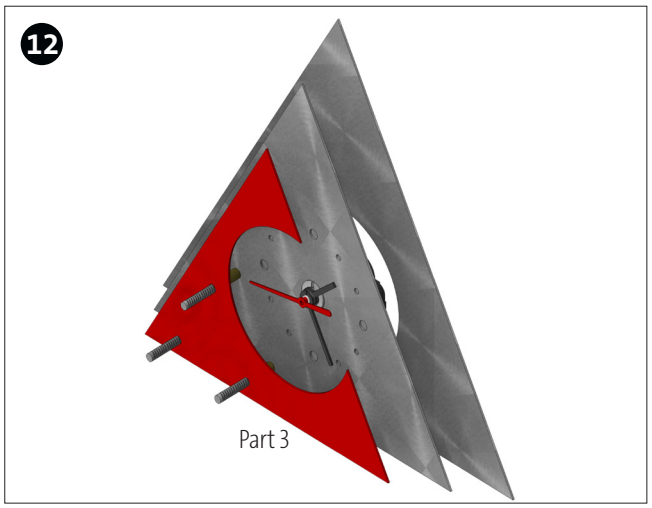
From the front of part 1, insert a brass casing (8) onto each of the screws (6).



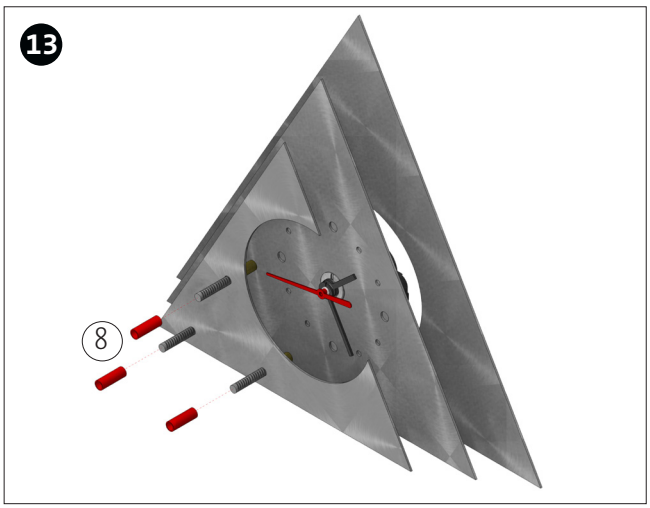
Place part 2 with the quartz movement on the screws (6).



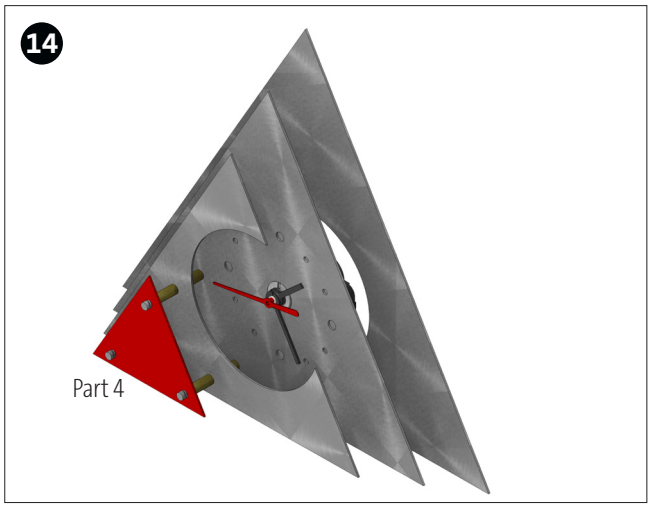
From the front of part 2, insert a brass casing (8) onto each of the screws (6).



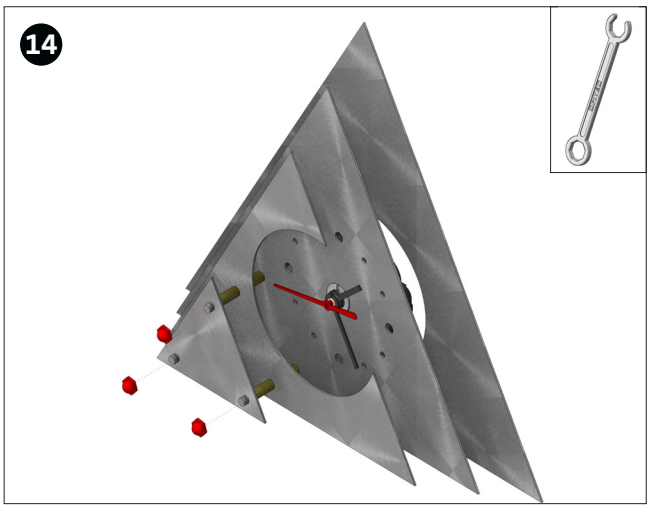
From the front, place part 3 on the three cylinder head screws (6).



Insert the remaining 3 brass casing (8) onto the three screws (6).

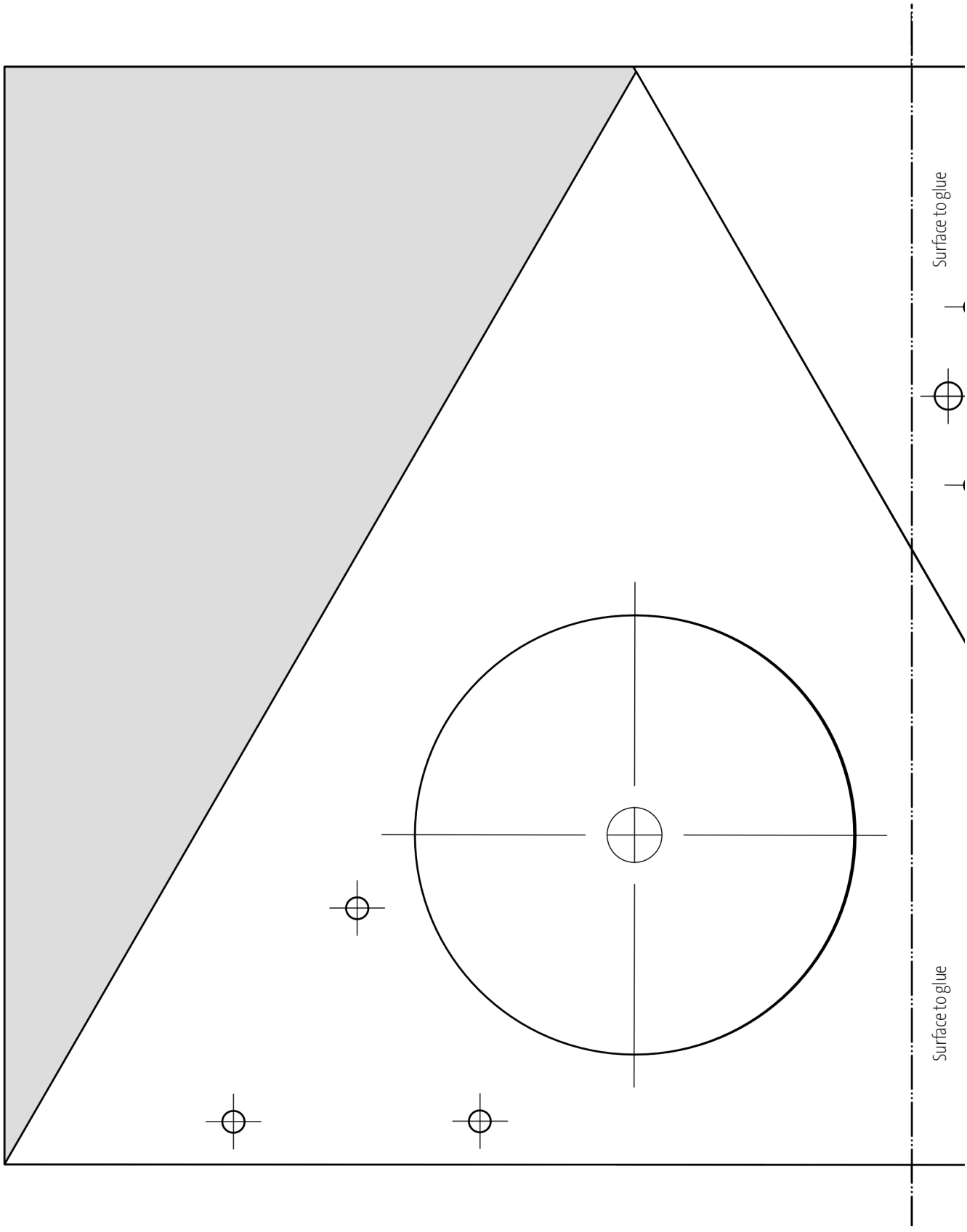


Insert part 4 onto the three screws (6).

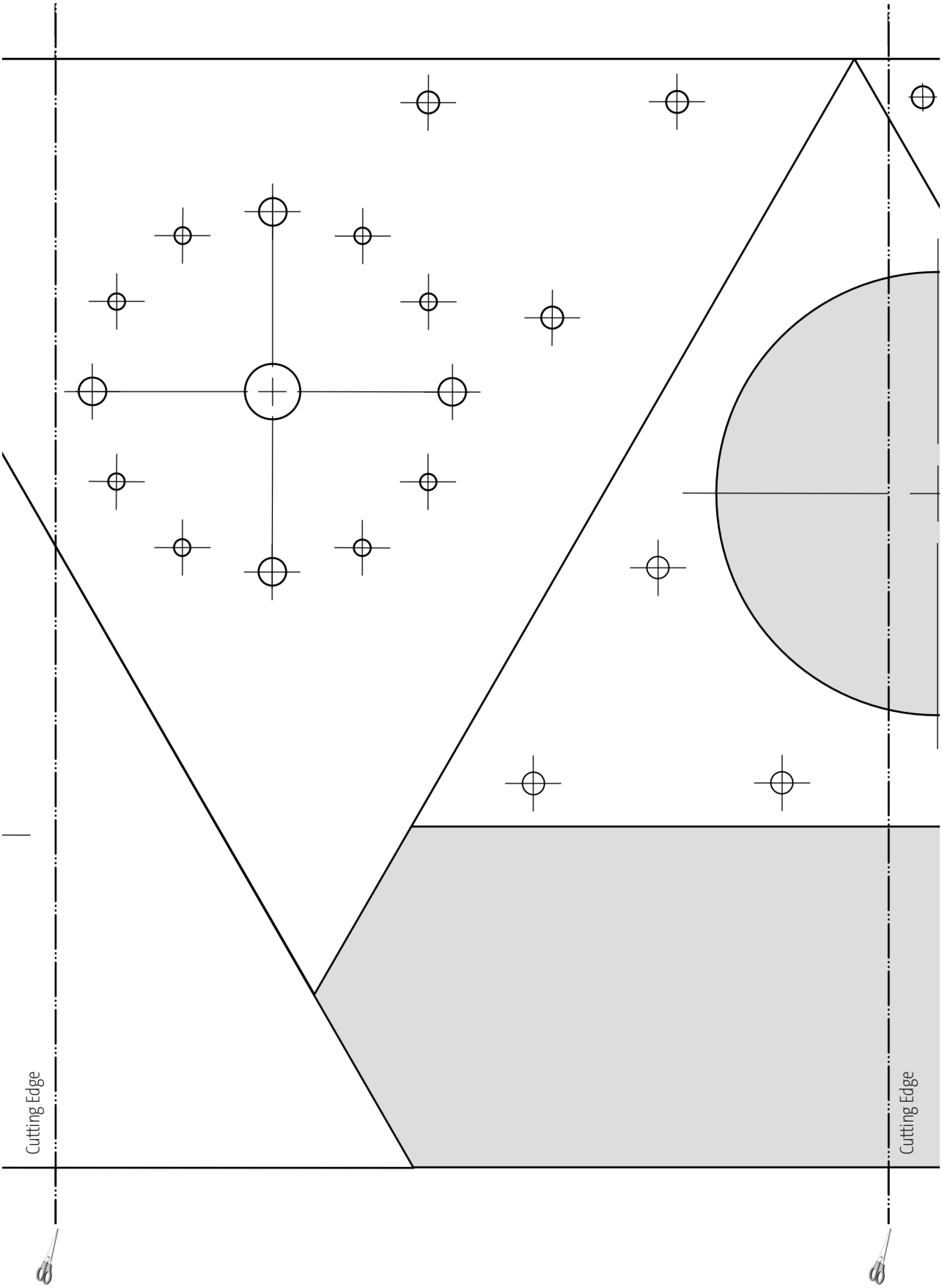


In the end, fasten the clock with the 3 head nuts from the front.

Template Aluminium Plate Part A
Scale 1:1



Template Aluminium Plate Part B
Scale 1:1



Template Aluminium Plate Part C
Scale 1:1