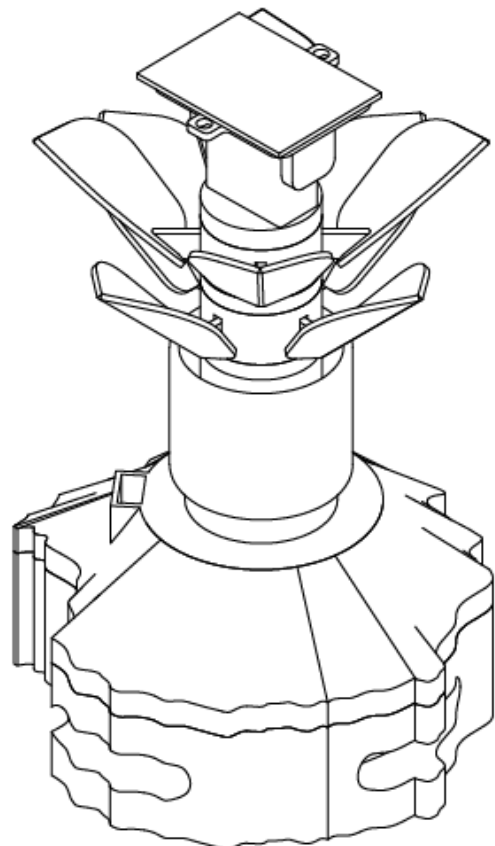
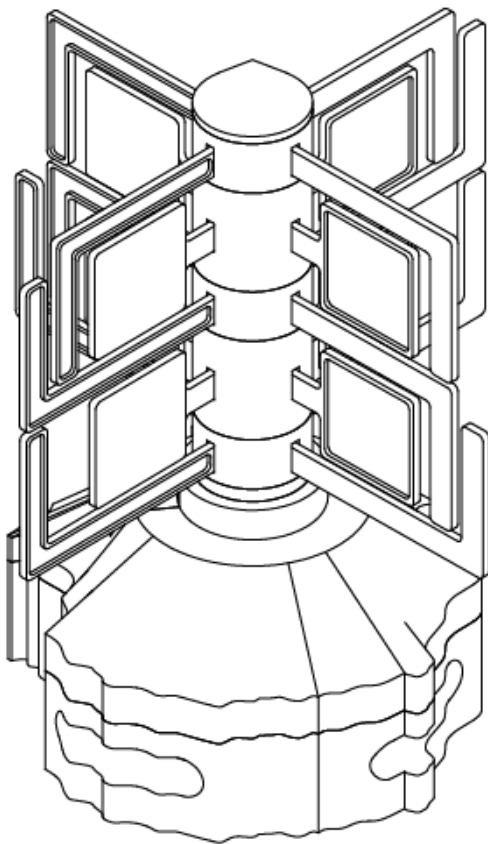
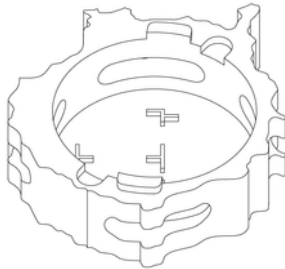

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3 x 1 Convertible demonstrator

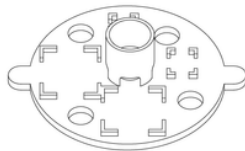


3x1 Demonstrator

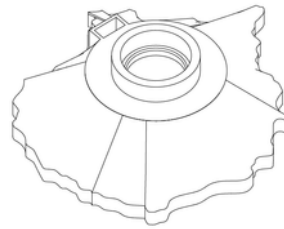
Elements



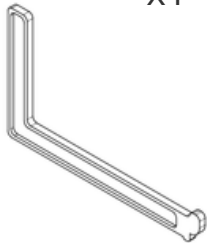
Base
x1



Middle base
x1



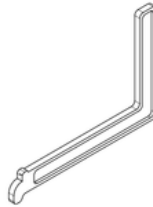
Top base
x1



Big L blade
x6



Square blade
x8



Small L blade
x6



Leaf
x8



Big disc
x2



Small disc
x3



Bearing disc
x1



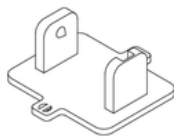
Top
x1



Static disc
x2



Water container
x1



Solar spin
x1



Solar disc
x1



Bearing
x1

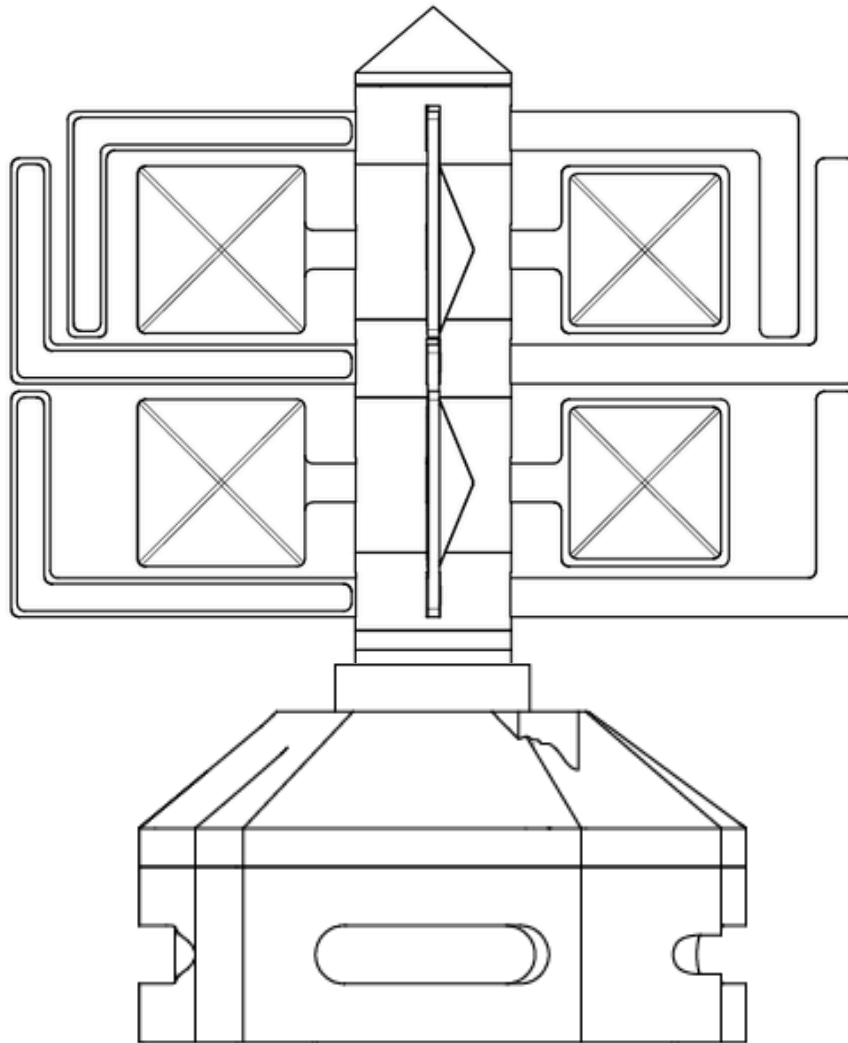


Wood joints
x3

**Total 47
elements**

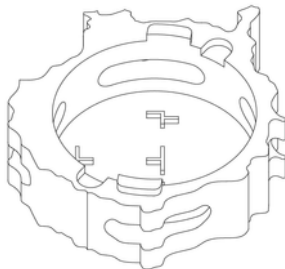
Wind demonstrator

Assembly guide

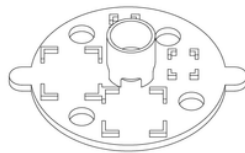


Wind demonstrator

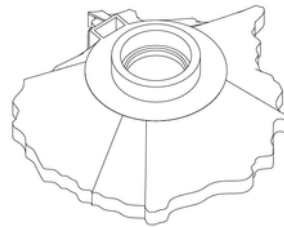
Elements



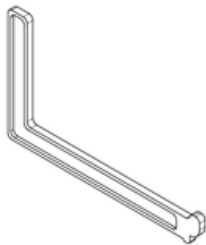
Base
x1



Middle base
x1



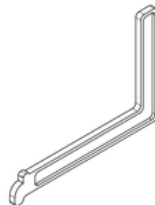
Top base
x1



Big L blade
x6



Square blade
x8



Small L blade
x6



Big disc
x2



Small disc
x3



Bearing disc
x1



Top
x1

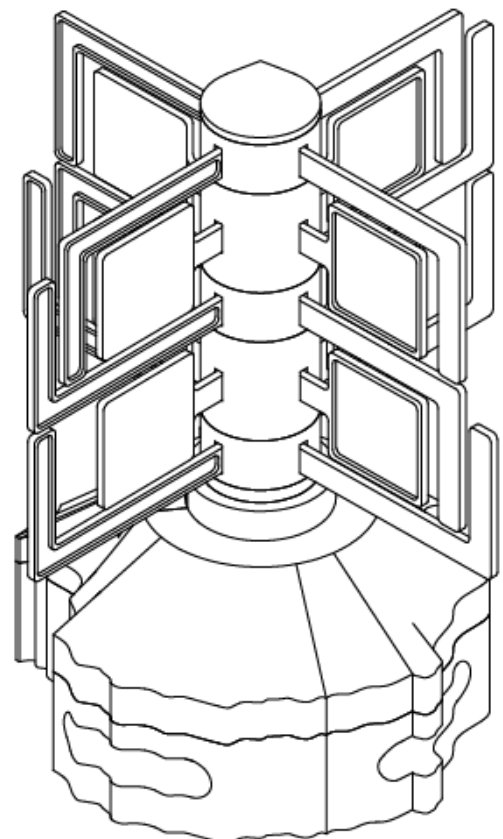


Bearing
x1



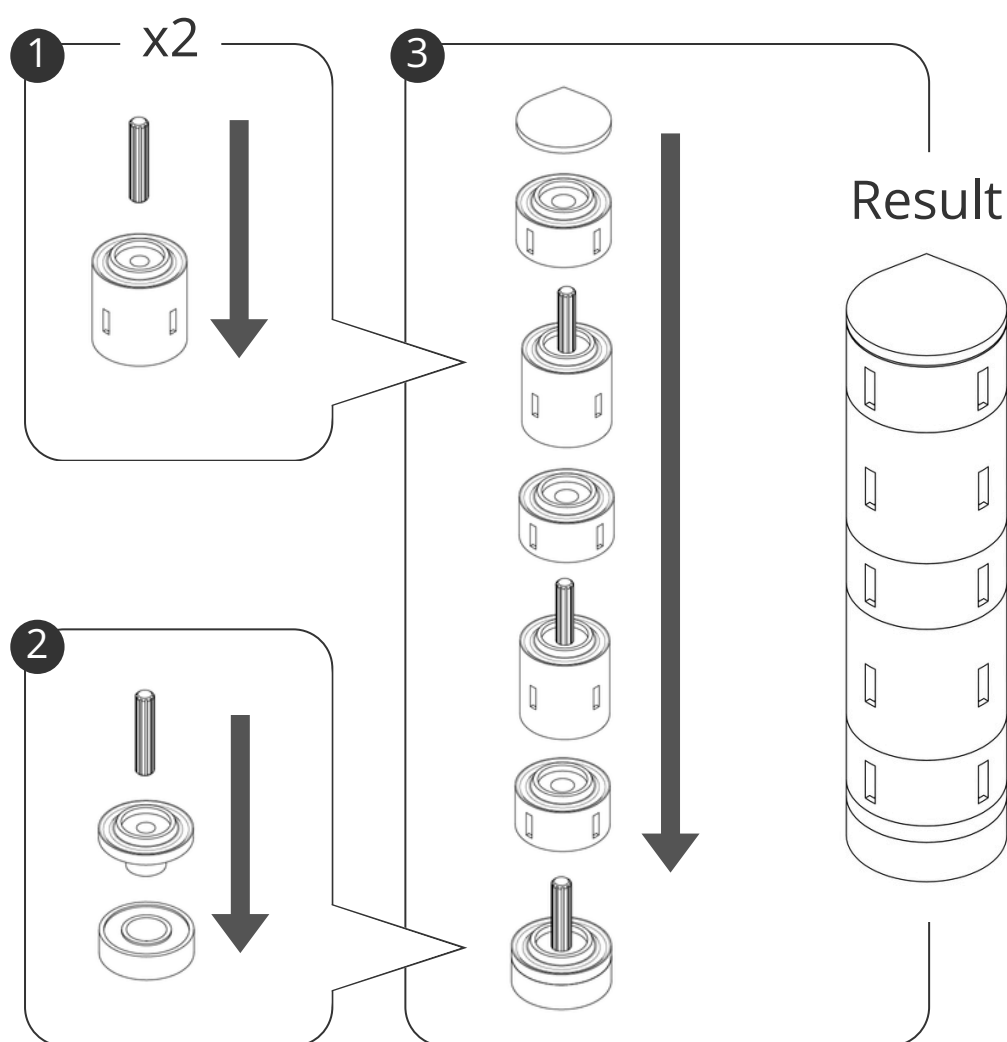
Wood joints
x3

Total 34 elements



Wind demonstrator

Core assembly



i The two big discs should move together, while each small discs should move individually.

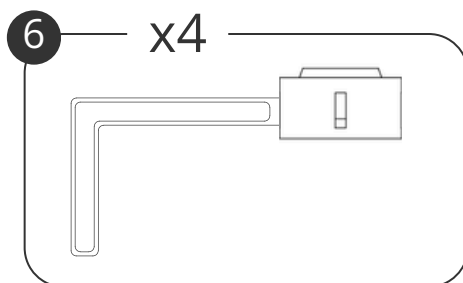
? If needed, take out a little bit the big discs from the wood joints in order to reduce friction.

Wind demonstrator

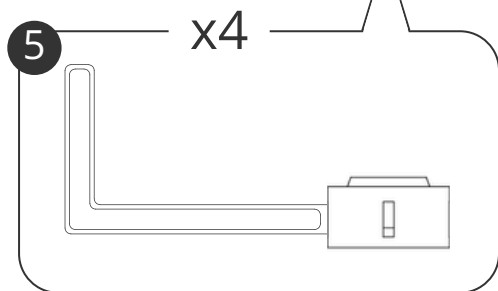
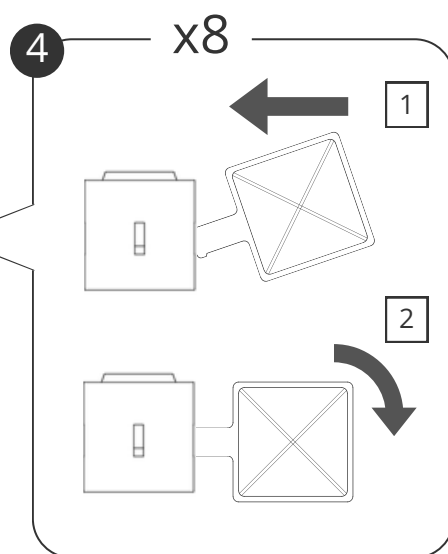
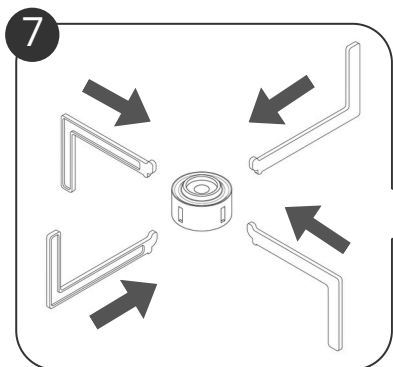
Blades assembly



Middle disc combines 2 big L blades and 2 small L blades.



All blades are assembled and disassembled the same way.

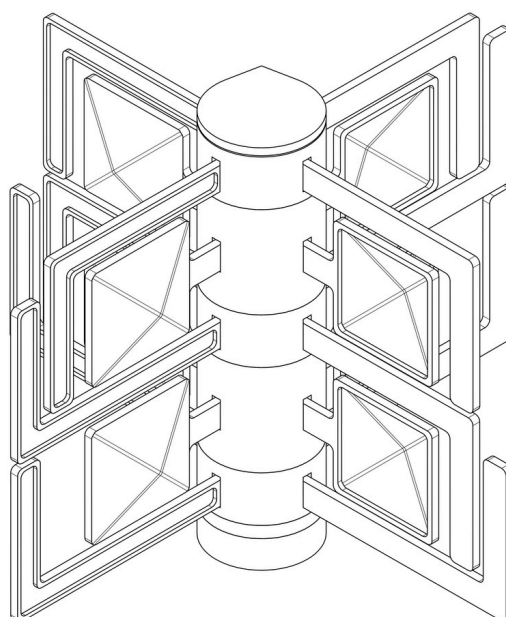


To disassemble the blades do the step 4, but inverting the force direction.



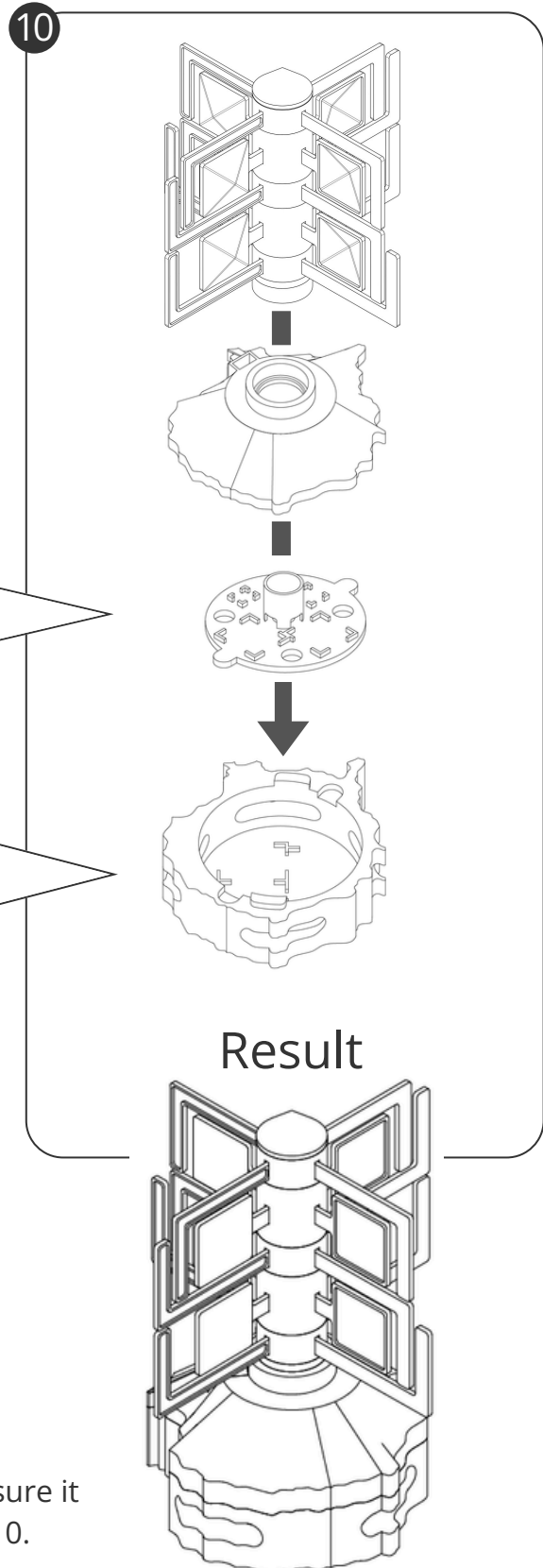
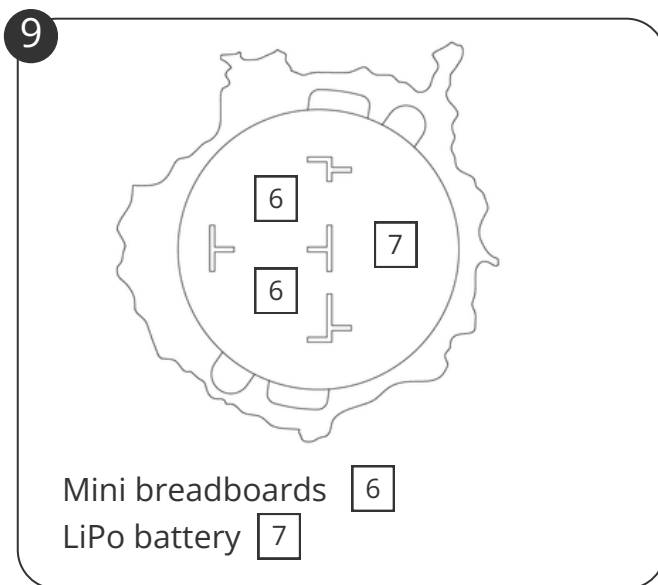
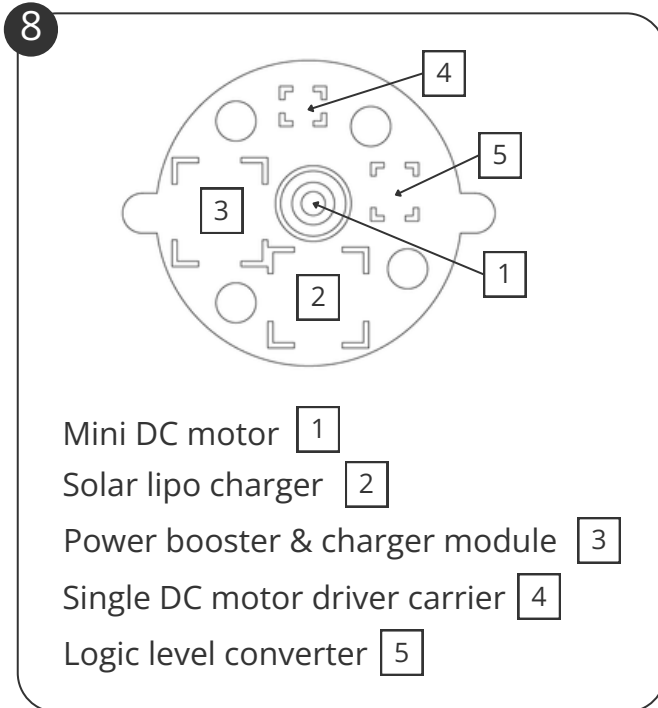
Do not force the blades to dis/assemble them, they might break if too much force is applied.

Result



Wind demonstrator

Base assembly



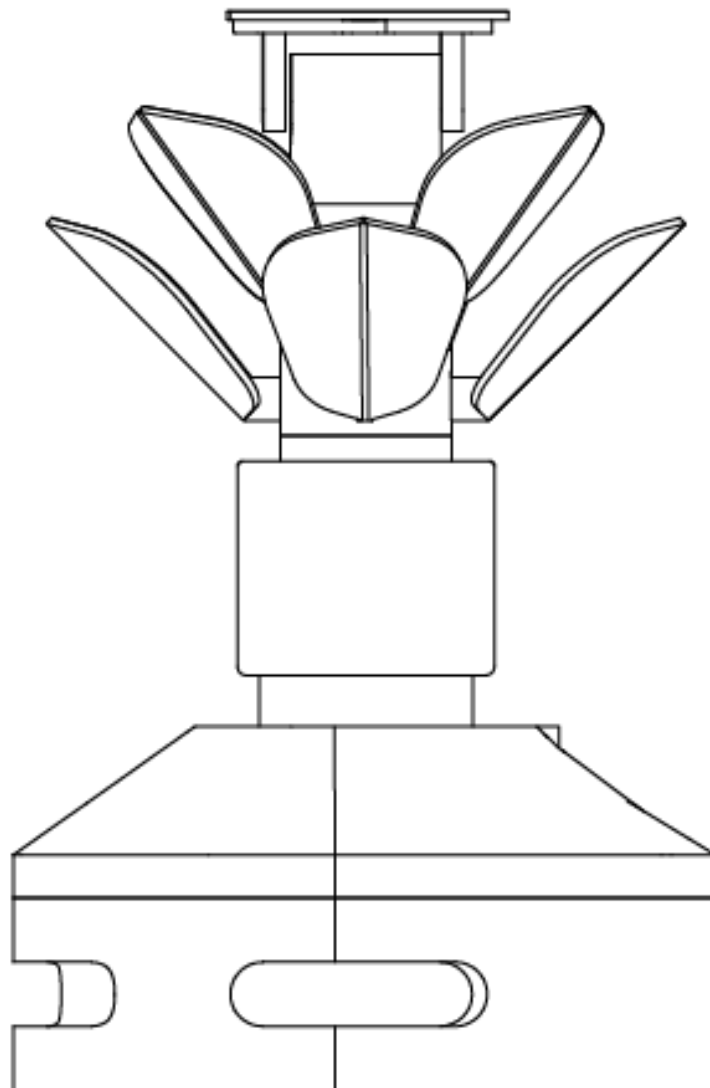
The base is the same for the three different types of demonstrators.



When assembled the middle base, ensure it is positioned as in the picture in step 10.

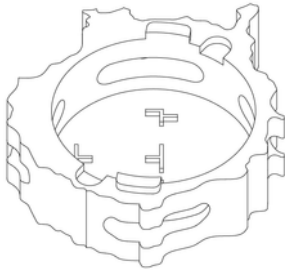
Solar + Water demonstrator

Assembly guide

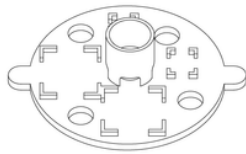


Solar + Water demonstrator

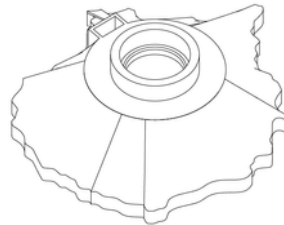
Elements



Base
x1



Middle base
x1



Top base
x1

Water demonstrator



Water container
x1



Leaf
x8

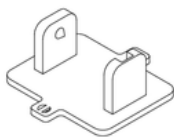


Small disc
x3



Static disc
x2

Solar demonstrator

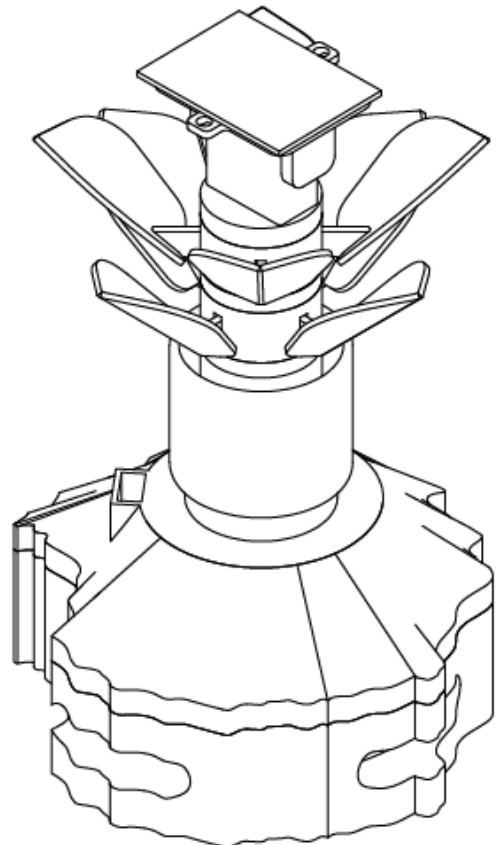


Solar spin
x1



Solar disc
x1

Total 19 elements

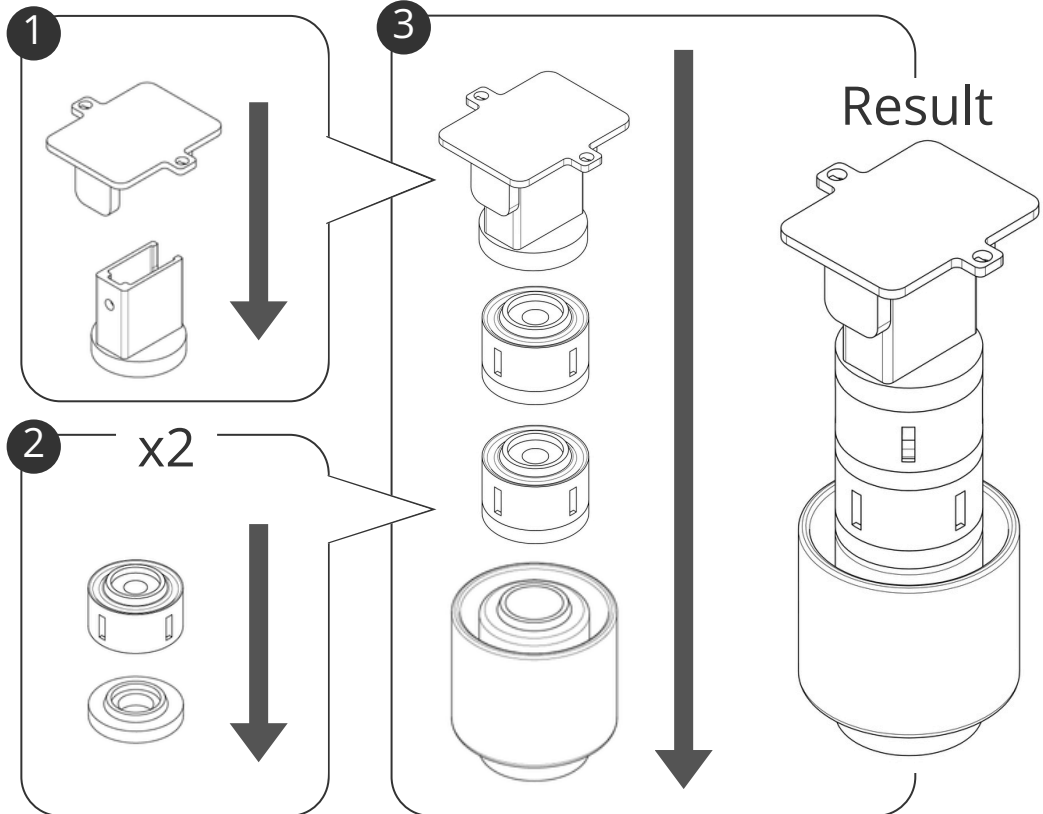


Solar + Water demonstrator

Core assembly

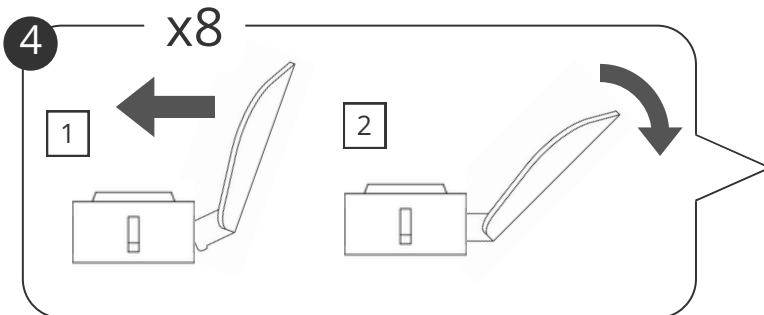


A servo motor needs to be placed horizontally between the solar parts.

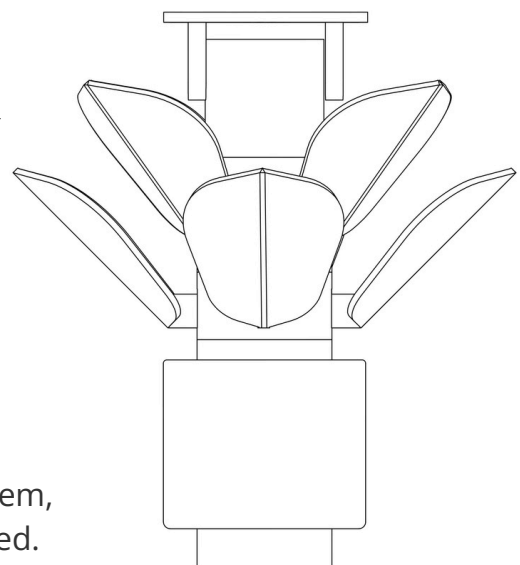


Make sure the two elements are fixed together.

Leaf assembly



Result



To disassemble the blades do the step 4, but inverting the force direction.

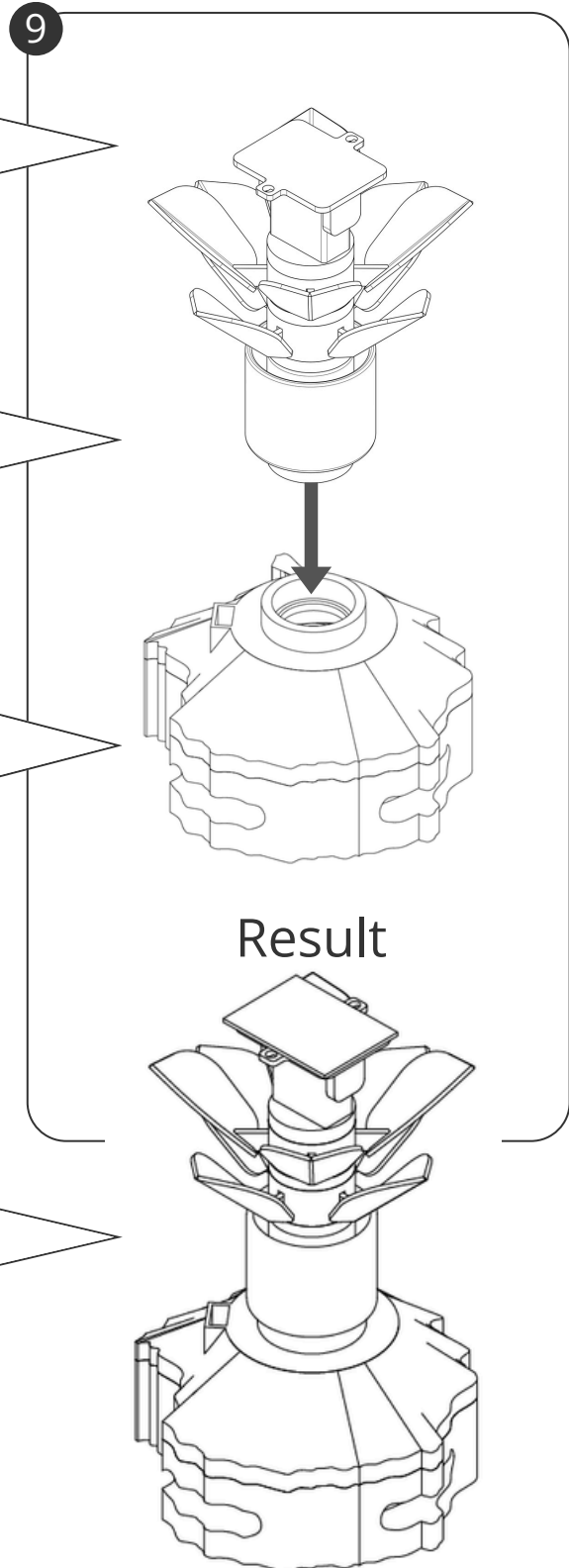
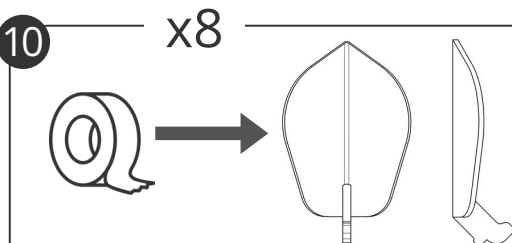
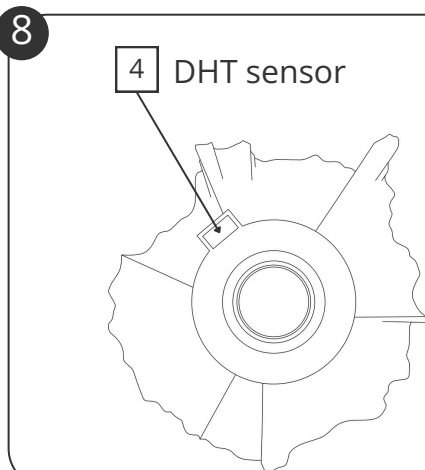
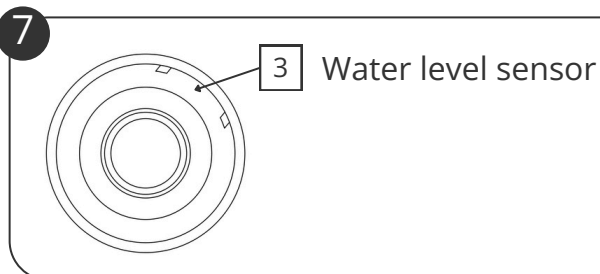
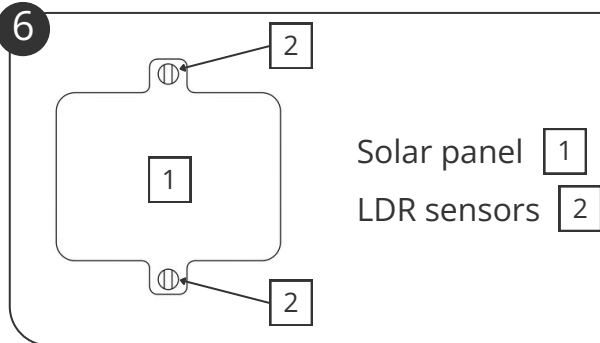


Do not force the blades to dis/assemble them, they might break if too much force is applied.

Solar + Water demonstrator

Base assembly

5 See **page 7** for the base assembly instructions.



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What else can you imagine?

Personalise your own demonstrator

