

SOLAR MOTOR KIT FOR DOMESTIC ROLLER SHUTTER

Dear Customer,

Thank you for purchasing one of our solar motor kit for roller shutter. We hope you find the installation process smooth and the product to your expectations.

Important: Please follow the instructions as closely as possible to ensure correct installation.

Our products are guaranteed on any manufacturing defect - however, we can not be held responsible for errors in installation.

This manual is made up of five sections:

- Removal of old mechanism page 2
- Product exploded view page 4
- Tube dimensions page 5
- Assembly of the new motorised tube page 6
- Pairing a remote control page 11
- Setting motor stop Limits page 11
- Installation FAQ page 12

REMOVAL OF OLD MECHANISM

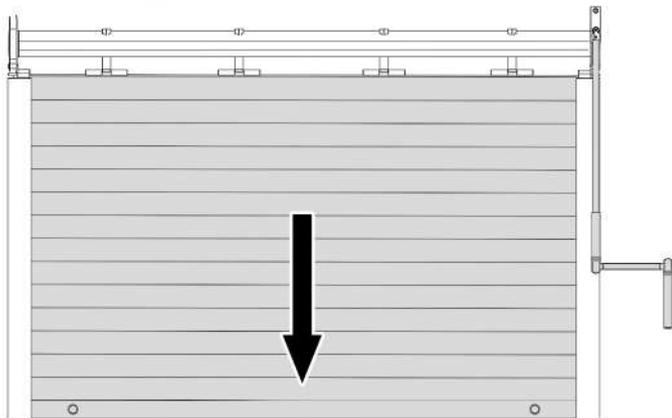
1 Remove the front box section of the roller shutter.

It is possible that the tube to be replaced contains a loaded spring. To remove the tube, it will be necessary to relax the spring to avoid any damage or injury.

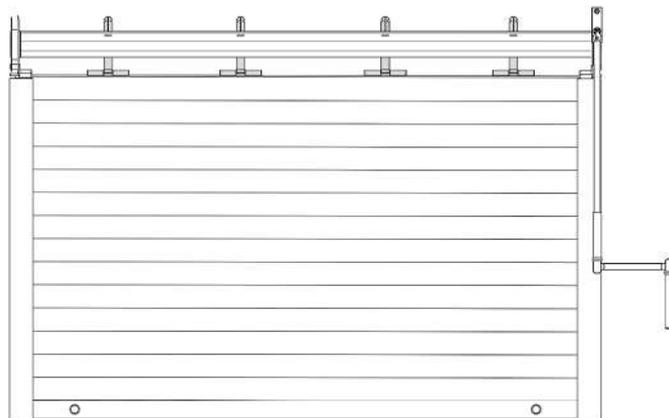
- Type 1 = my tube has a spring.
- Type 2 = my tube has no spring.

2 Type 1:

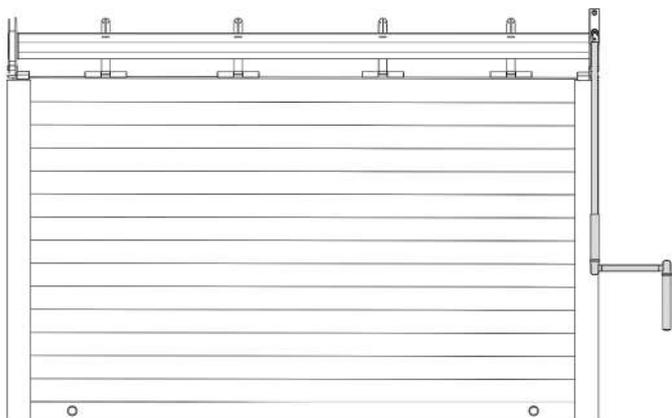
A Lower the roller shutter, counting the number of turns made by the crank.



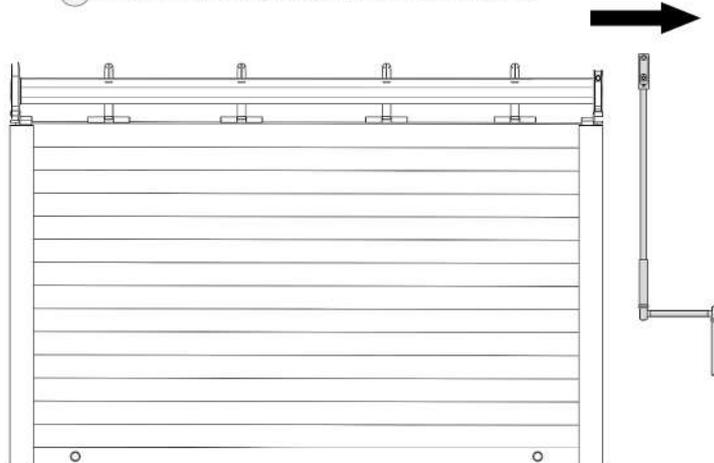
B Detach the roller shutter curtain from its tube, making note of the direction it rolls.



C Release spring tension with the crank: turn the crank in the opposite direction (up) the number of turns identified in step A.

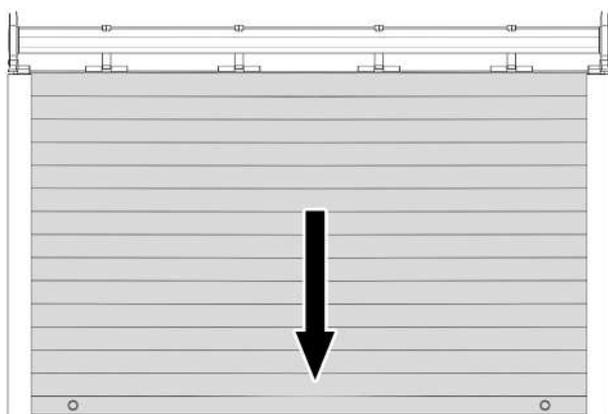


D Disassemble and remove the crank mechanism.

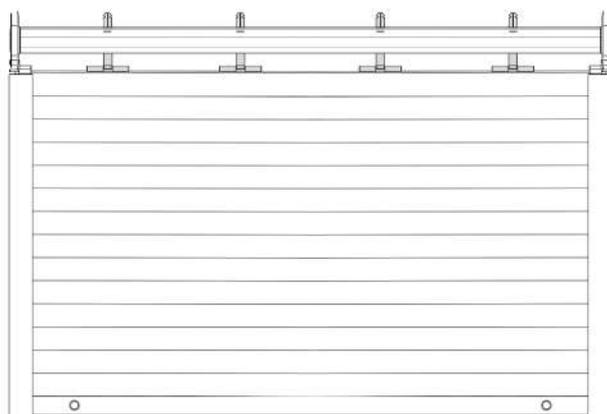


2 Type 2:

A Lower the roller shutter.

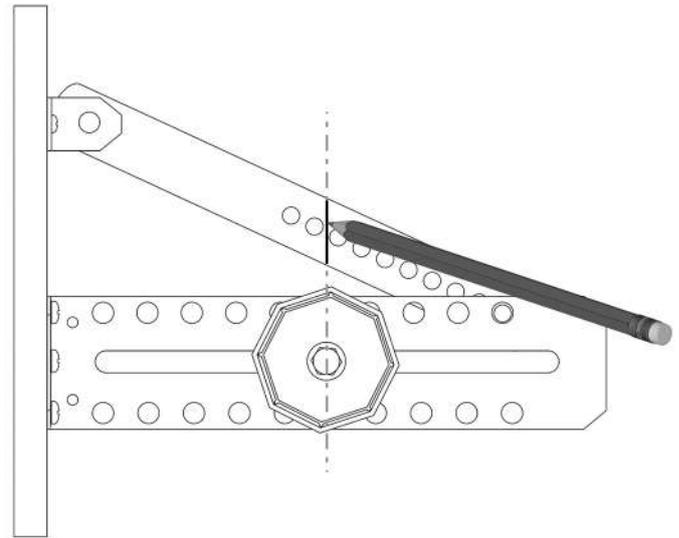


B Detach the roller shutter from its tube, taking care to identify the rolling direction of the curtain.



2

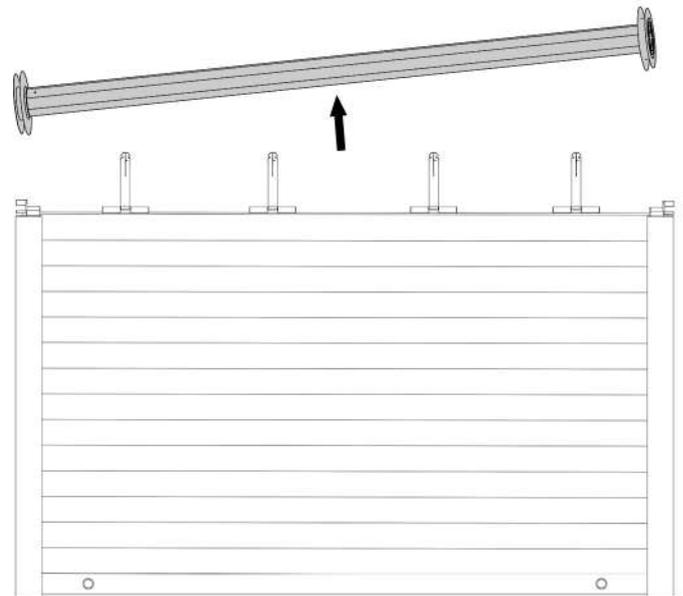
For a traditional roller shutter, mark the exact location of the shaft on the 2 support brackets, before removing the old shaft.



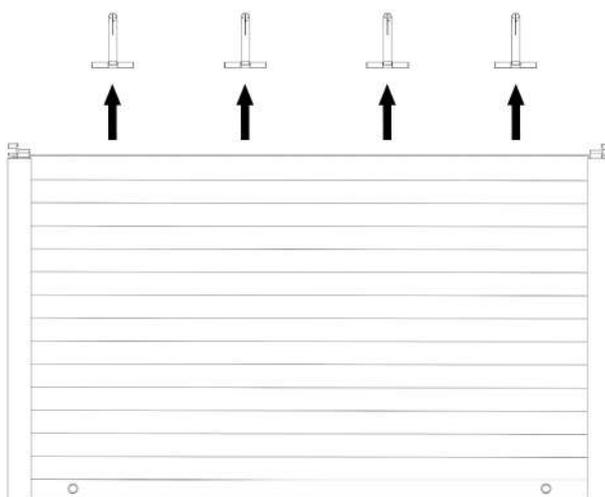
If strap coiler, remove the coiler box from the wall and remove the strap from the strap guide (turn the tube in on itself to reach the fixing point).

If spring loaded, take care when removing the tube, it could still have some tension. To avoid accident, we advise an extra person hold the tube while another removes the tube.

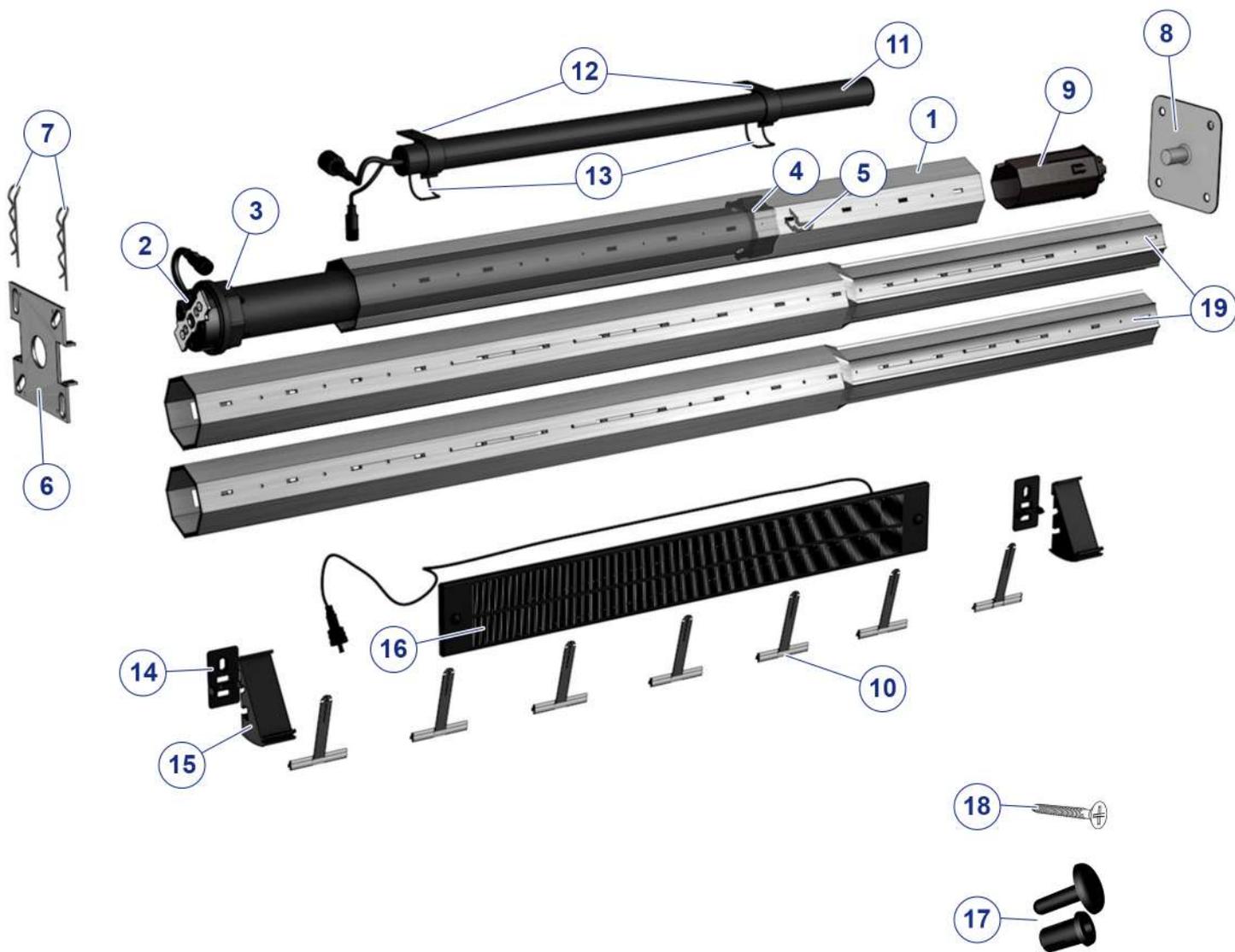
Fit the tube fully onto the tube end, then remove both.

**3**

Raise the slat curtain and remove the flexible attachments.



PRODUCT EXPLODED VIEW

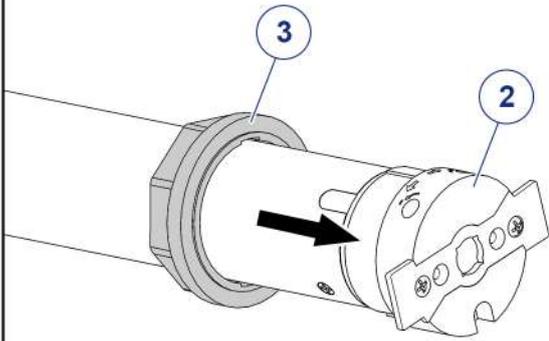


1	Octagonal recuttable tube
2	Motor
3	Crown
4	Wheel
5	Pin
6	Motor support
7	Motor support pin
8	Pivot plate with nipple
9	Tube end

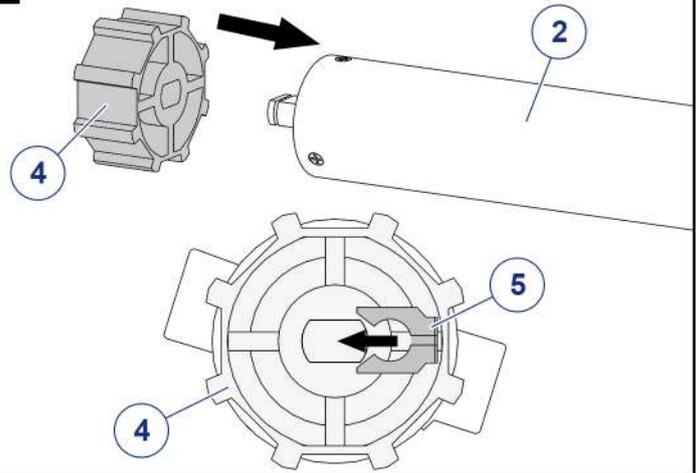
10	Flexible slat attachment (x3 to x7 depending on configuration)
11	Solar battery
12	Battery support
13	Retaining elastics
14	Solar panel mounting plate
15	Solar pabel support
16	Solar panel
17	Push-in rivets
18	Self-drilling screws
19	Octagonal recuttable telescopic tube (0,1 or 2 depending on configuration)

TUBE DIMENSIONS

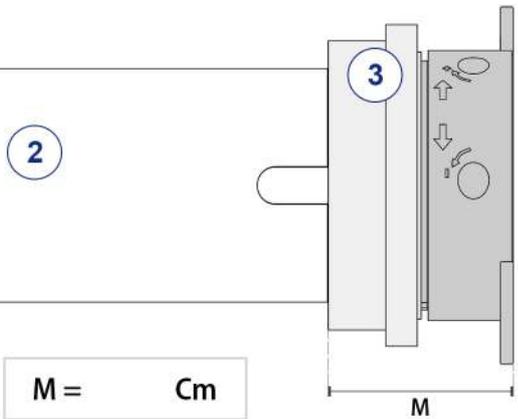
4 Installation of the crown.



5 Fitting and fixing the wheel.

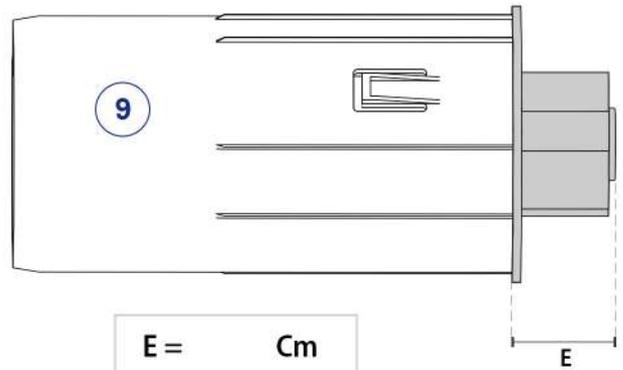


6 **A** Measure: motorhead + crown adapter.



$$M = \text{Cm}$$

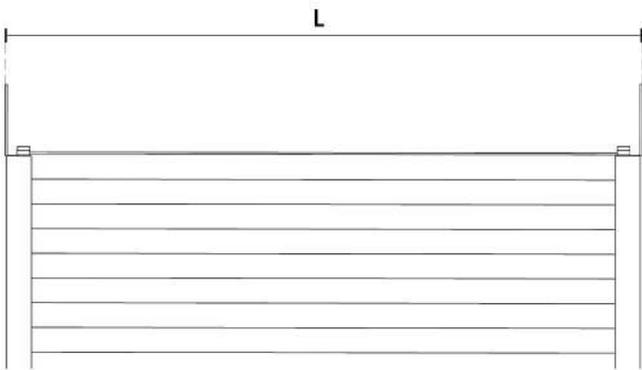
B Measure the protruding part of the tube end.



$$E = \text{Cm}$$

$$T = M + E + 3 \text{ Cm} = \text{Cm}$$

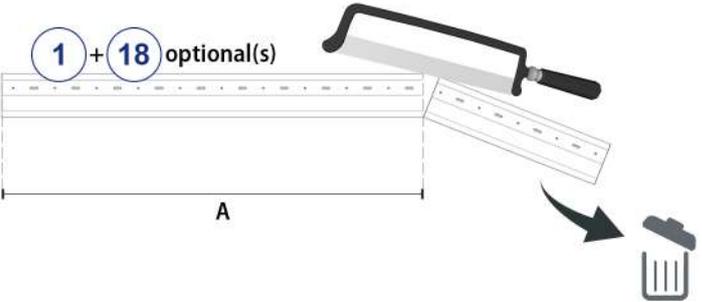
7 Measure the width between supports shaft.



$$L = \text{Cm}$$

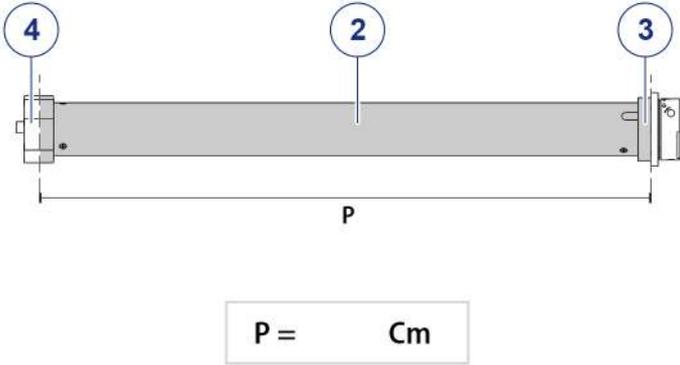
8 Depending on your configuration, fit the telescopic octagonal tubes (19 optional) on the tube (1).
Dimension of the tube alone (A).

$$A = L - T = \text{Cm}$$

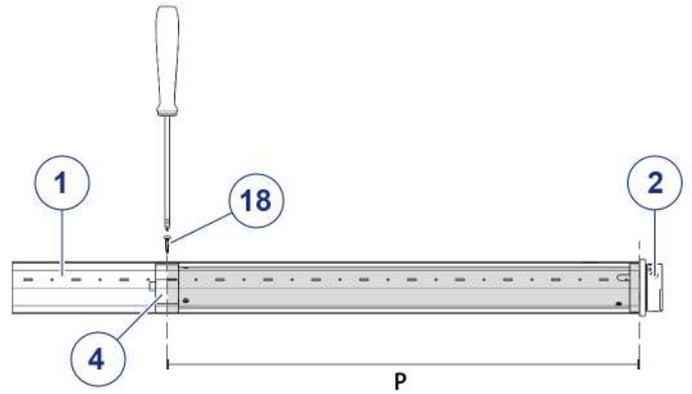


ASSEMBLY OF THE NEW MOTORISED TUBE

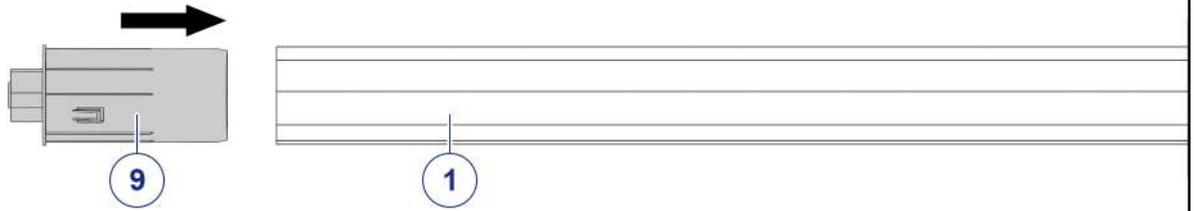
- 9** Measure the popping distance. It is used to secure the motor and not to damage it.



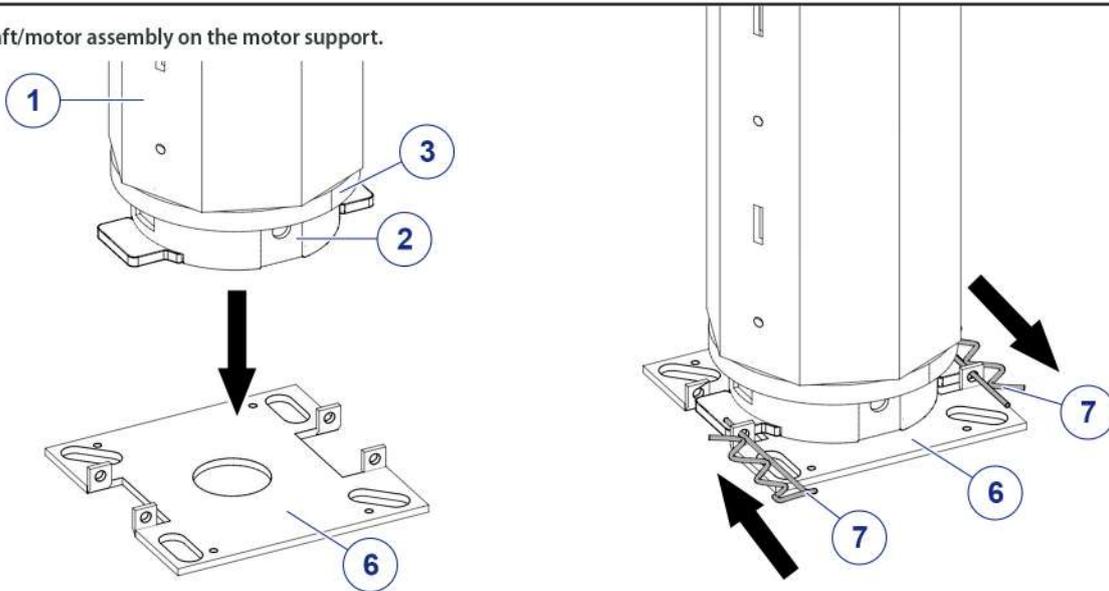
- 10** Insert the motor into the tube.
Transfer the popping distance (P) to the tube, then screw the tube to the motor wheel (4) with one of the supplied screws (18).



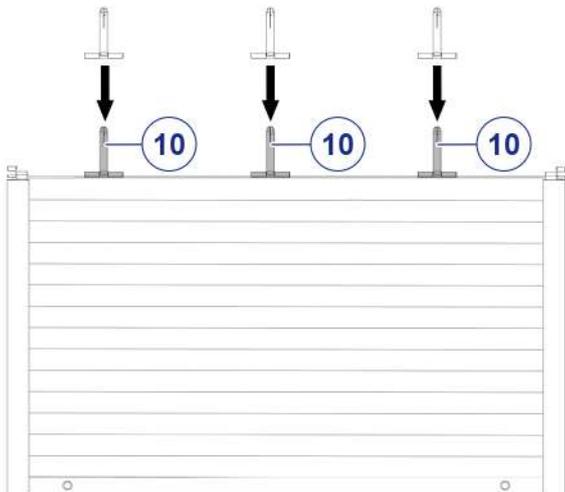
- 11** Fit the tube end on the tube.



- 12** Place the shaft/motor assembly on the motor support.



- 13** Installation of flexible attachments (3 to 7 depending on configuration).

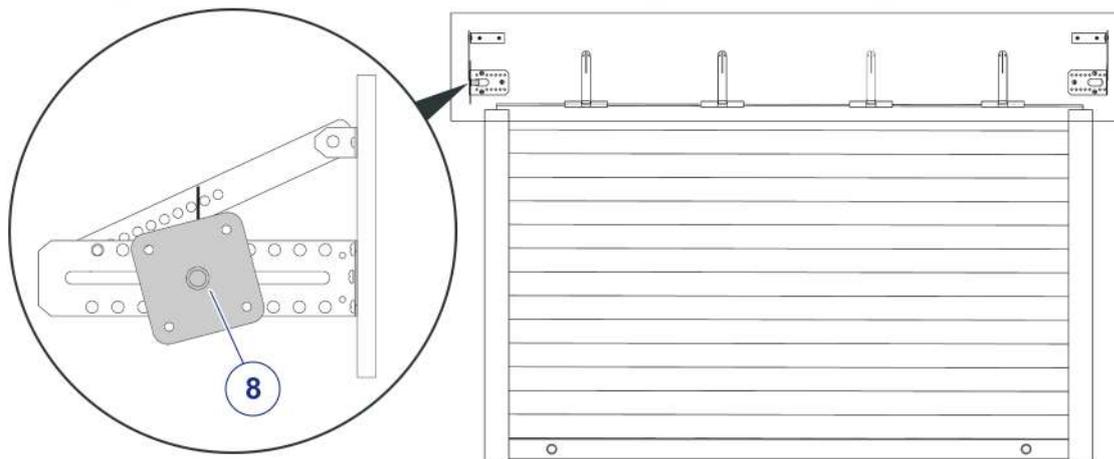


14 Attach the shaft brackets and shaft assembly according to your configuration (here our solar panel will be placed on the left, seen from the outside).

Traditional :

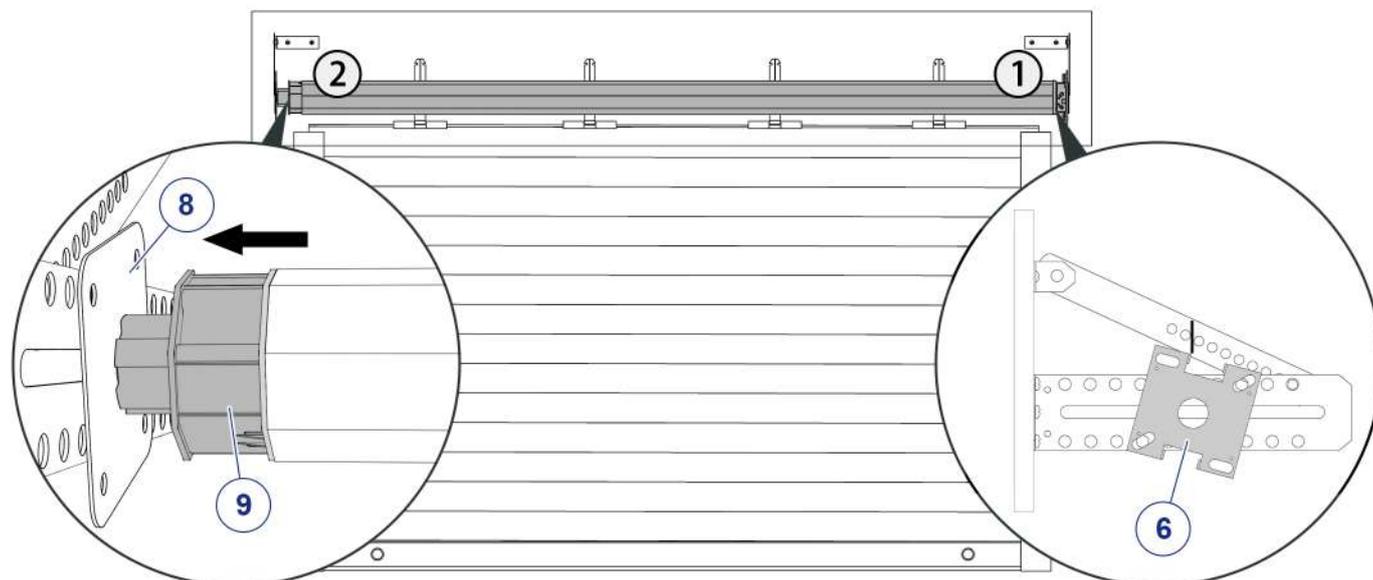
On the brackets left in place, marked in step 2:

- Fix the pivot plate with stud (8) opposite to the control side. Match the positioning of the tube marked in step 2.



Raise the first slat and attachment clips, then position the tube.

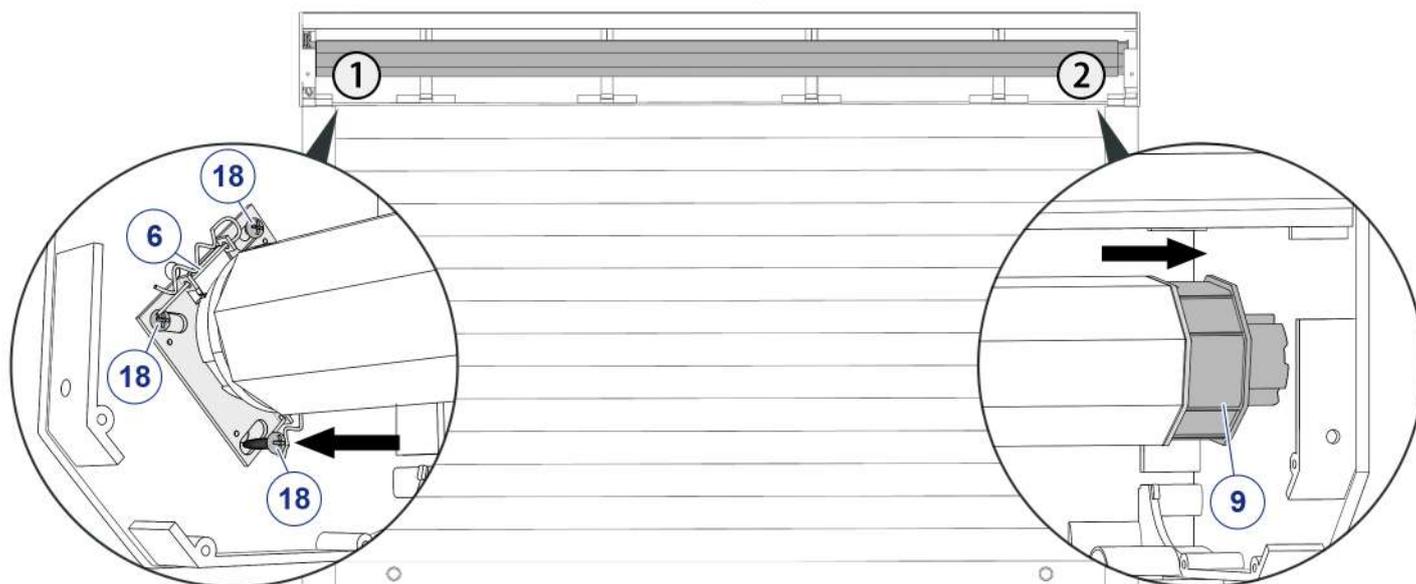
- Fix the motor part. Match the positioning of the tube marked in step 2.
- Position the other end of the tube facing the stud plate (8). Pull the end of the tube to make it lodge onto the stud.



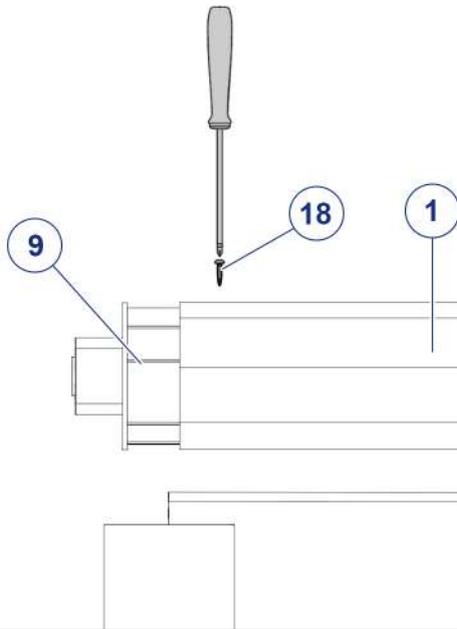
Renovation :

Raise the first slat and attachment clips, then position the tube.

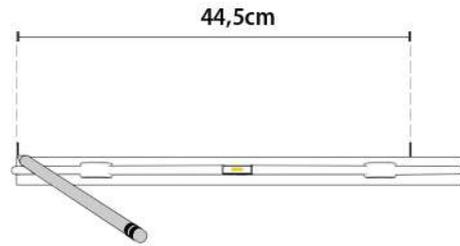
- Fix the motor part first.
- Position the other end of the tube. Pull the end of the tube to make it lodge onto the stud.



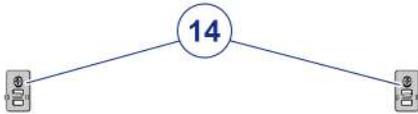
15 Attach the tube end to the axle.



16 Using a level, mark the holes for the solar panel supports. Space these marks 44.5cm apart.



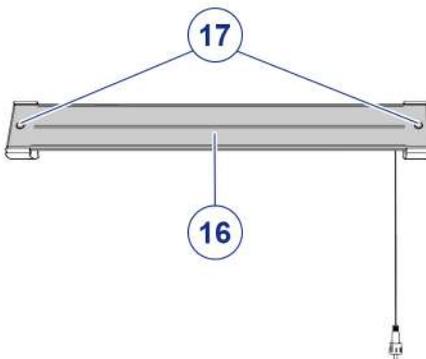
17 Drill ($\varnothing 6\text{mm}$), peg and screw the first part of the solar panel wall bracket (14).



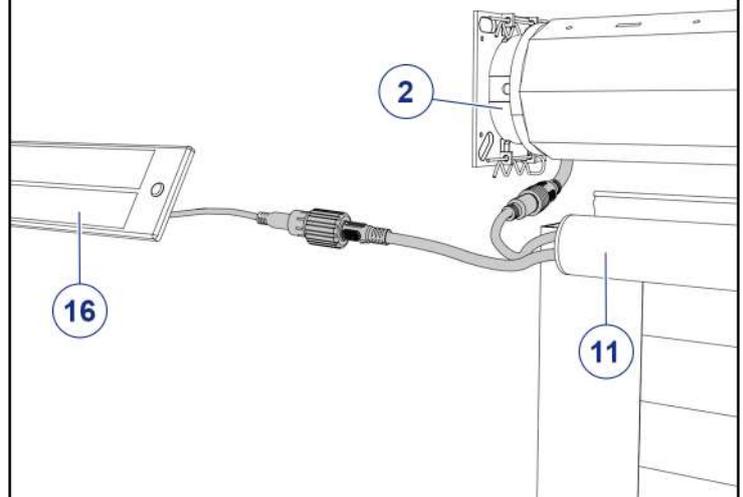
18 Place the second part of the solar panel wall bracket (15) on top.



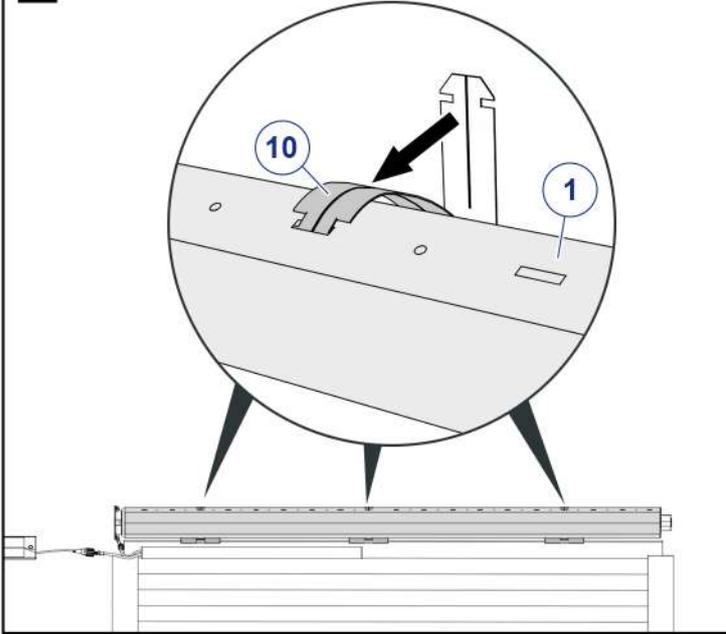
19 Place the solar panel on its supports.



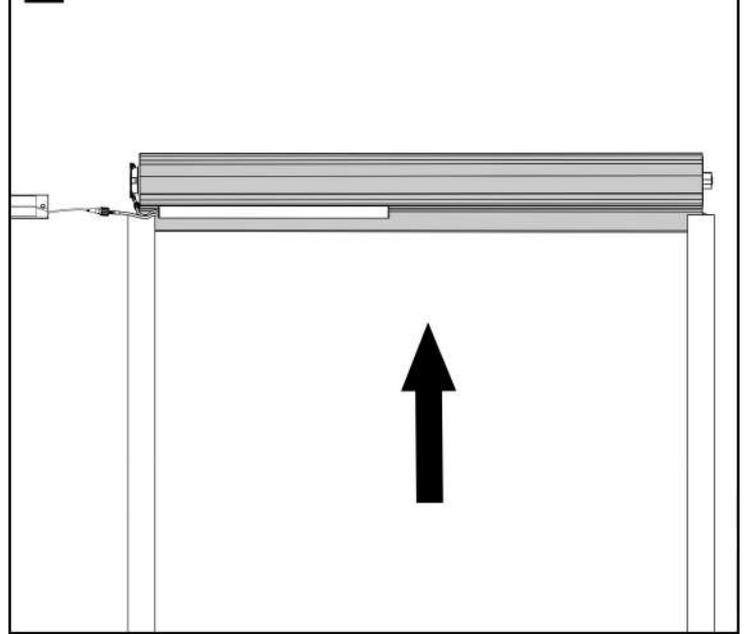
20 Depending on your configuration, fit the solar panel cable inside your roller shutter box, on the motorisation side of the motorised shaft.
Make a temporary connection between the solar panel, battery and motor.



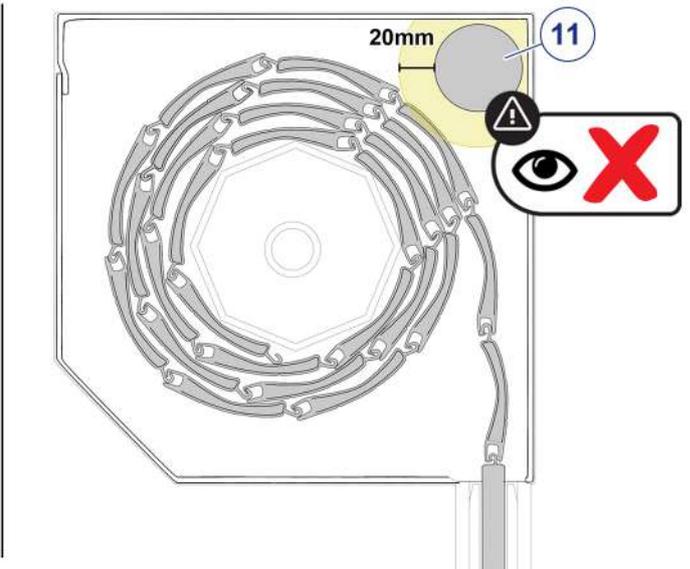
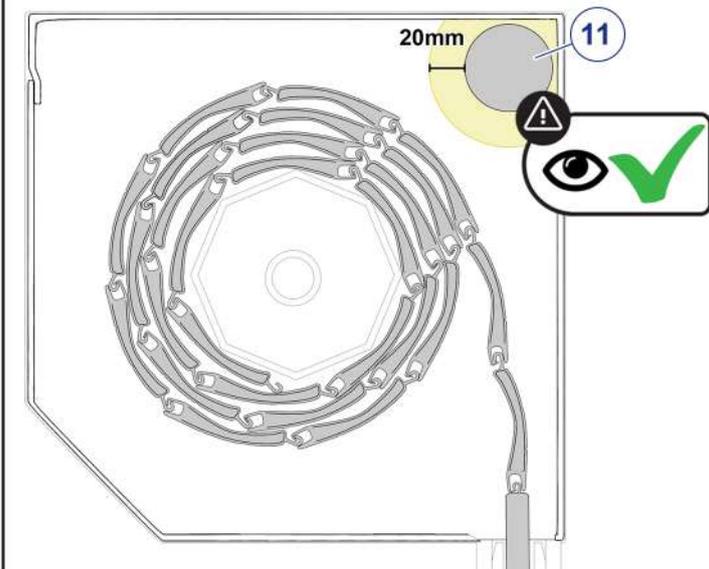
21 Hang the flexible attachments on the axle.



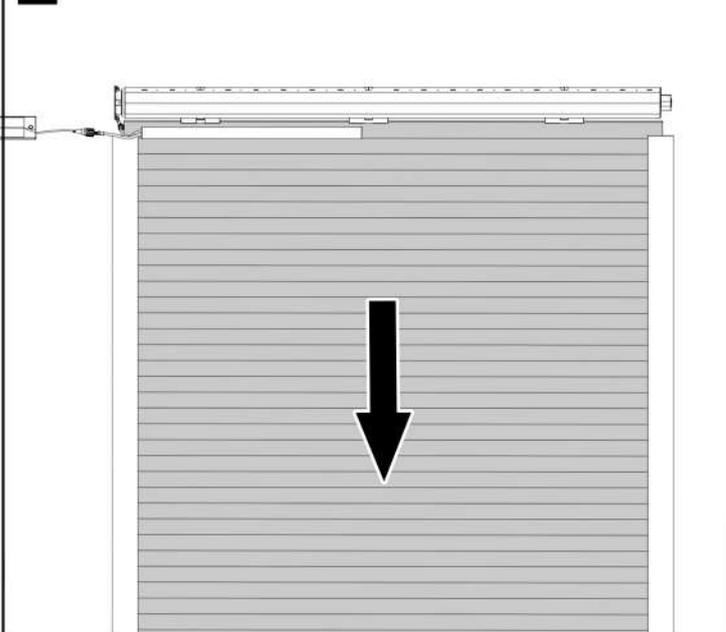
22 Raise the roller shutter.



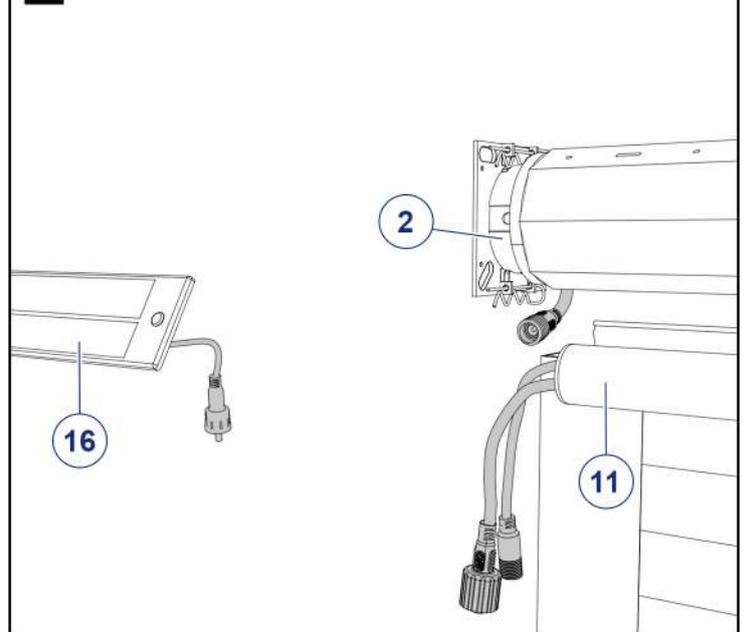
23 Check that there is enough space in the box to house the battery with an additional 20mm safety zone.
If this is not the case, place it in a place that is at least protected from the weather, depending on your configuration (e.g. behind a slide rail for installation between panels, under the case for surface installation, etc.)



24 Lower the roller shutter



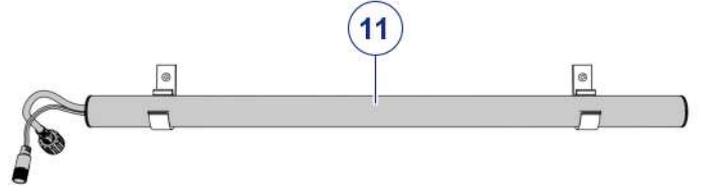
25 Disconnect the temporary connections.



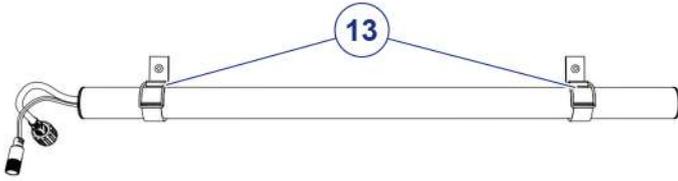
26 Attach the battery holders, depending on your configuration.



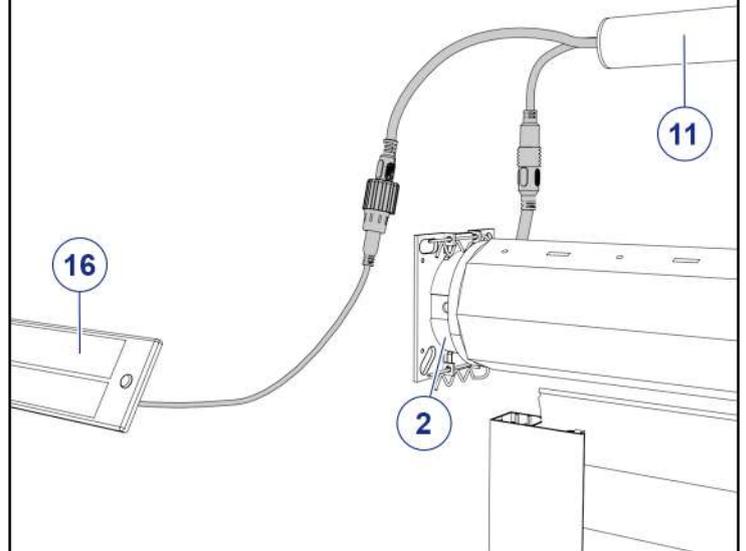
27 Place the battery in its holders.



28 Hold the battery in its holders with the elastic bands (13).

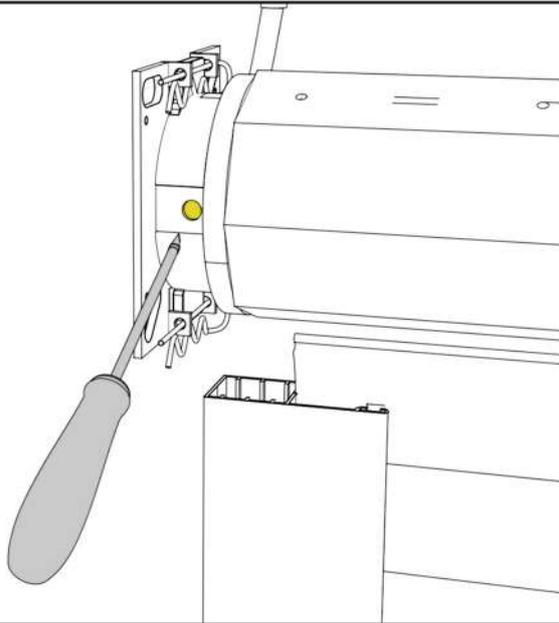


29 Make the solar panel-battery-motor connections.



PAIRING A REMOTE CONTROL

30



Using a flathead screwdriver, press the P1 button on the motor head for 2 seconds (1 vibration).

Then within 10 seconds, press the STOP button on the remote control for 2 seconds (2 vibrations).

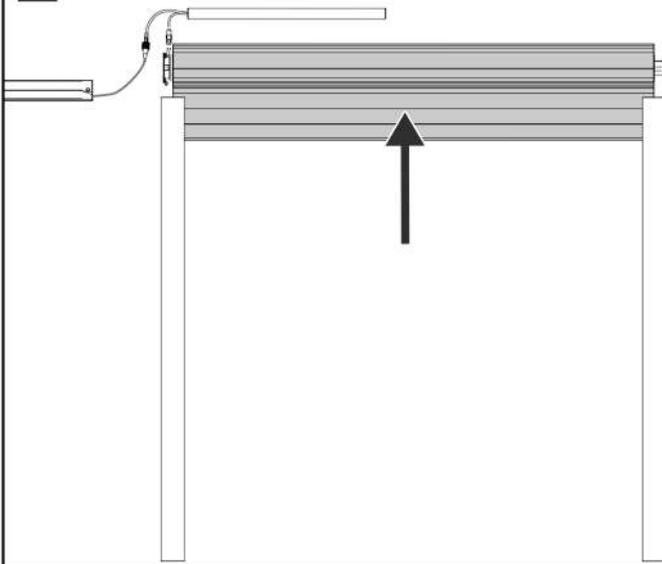
The motor and the remote control are paired.

Repeat the operation for any new transmitter or to delete the existing pairing.

 x 2 sec.
STOP

SETTING THE STOP LIMITS

31 Setting the upper limit.



On the remote control, hold the up and stop buttons for 5 seconds. (the motor makes an up and down movement and beeps).

 + 
UP STOP

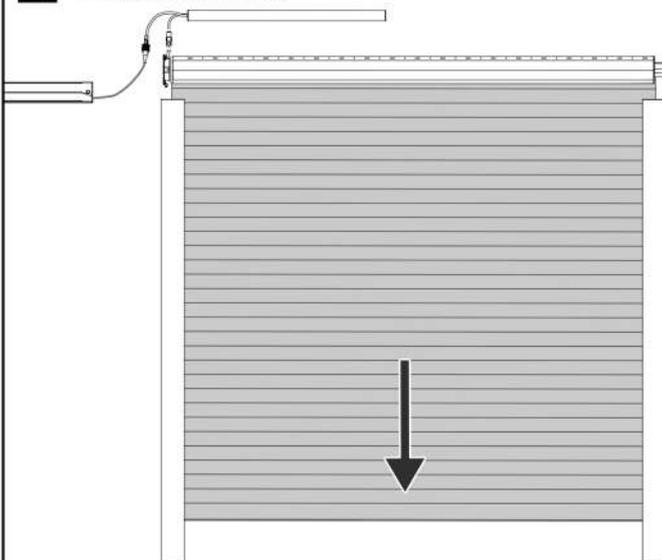
Use the up and down keys to adjust the position of the upper stop limit.

 or 
UP DOWN

Once the position is set, press the up and stop button for 2 seconds (2 motor movements and 3 beeps), the new position is saved.

 + 
UP STOP

32 Setting the lower limit.



On the remote control, hold the down and stop buttons for 5 seconds. (the motor makes an up and down movement and beeps).

 + 
DOWN STOP

Use the up and down keys to adjust the position of the bottom stop limit.

 or 
UP DOWN

Once the position is set, press the down and stop buttons for 2 seconds (2 motor movements and 3 beeps), the new position is saved.

 + 
DOWN STOP

The motor beeps during raising or lowering:

The battery level is low --> recharge the roller shutter panel, see page 6. Check whether the solar panel is sufficiently exposed to sunlight.

My motor keeps going at the top and/or bottom:

The stop limits have to be set on your shutter, please refer to page 8.

My motor stops while setting the limits:

The motor shuts down automatically when overheated - try again in 10 minutes.

My shutter doesn't go all the way down or all the way up:

The stop limits are incorrectly adjusted - refer to page 8 and reset them.

My shutter jams on it's way down or up:

A shutter slat may have moved to one side - check the alignment and try again.

My motor doesn't respond to my remote control:

Check the batteries and try to re-pair with your motor.

Check that the synchronized remote control is an Avosdim bi-directional remote control.

My stop limits aren't configured correctly:

Please refer to and follow the steps detailed on page 11.

My motor does not turn in the right direction:

Press the **UP** and **DOWN** buttons for 2 seconds simultaneously on the remote control. The direction of the motor is then reversed.

Note that this operation can only be carried out if the upper and lower stops have not yet been adjusted.