User's Manual

Articulated Arm Awning

63900–63905

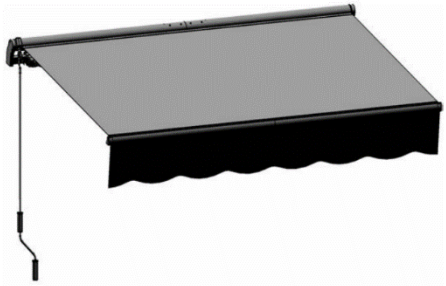

Illustration similar, may vary depending on model

Please read and follow the operating instructions and safety information prior to initial operation.

Technical changes reserved!
Illustrations, functional steps, and technical data may deviate insignificantly due to continuous further developments.

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If you have found an error or wish to suggest an improvement, we look forward to hearing from you.
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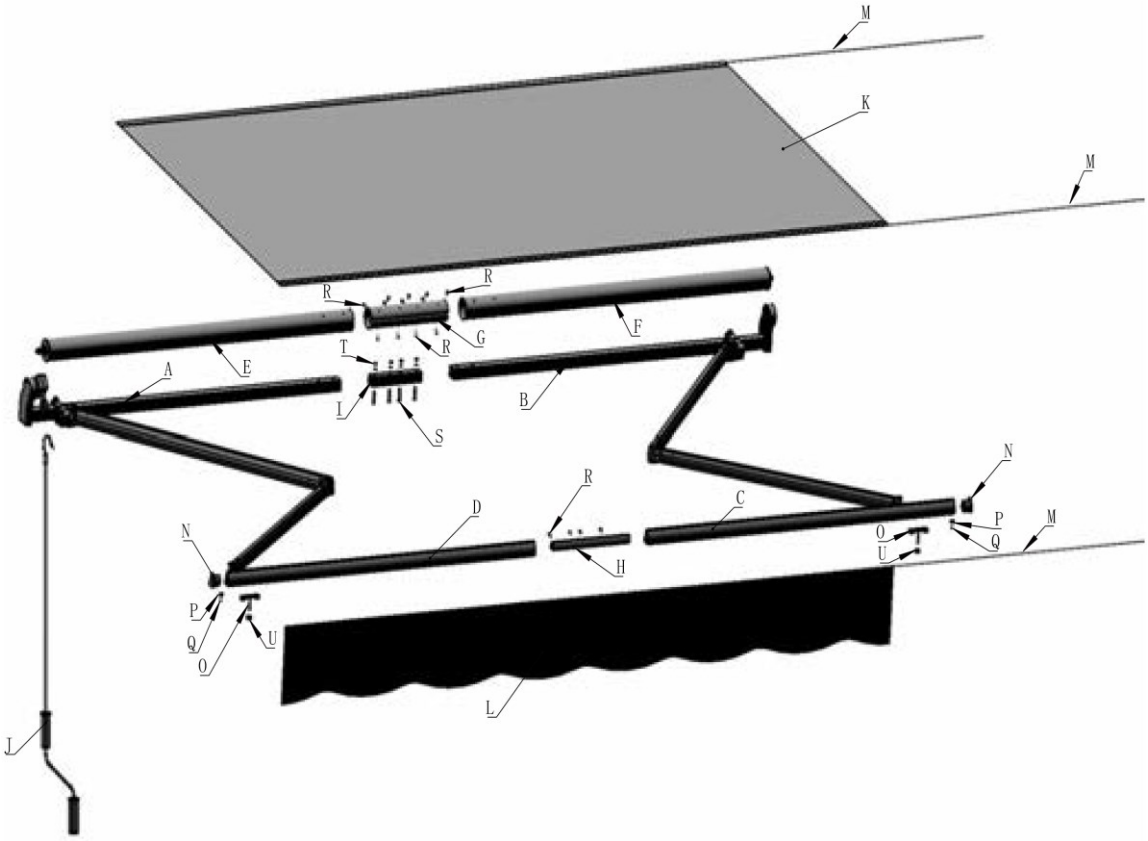
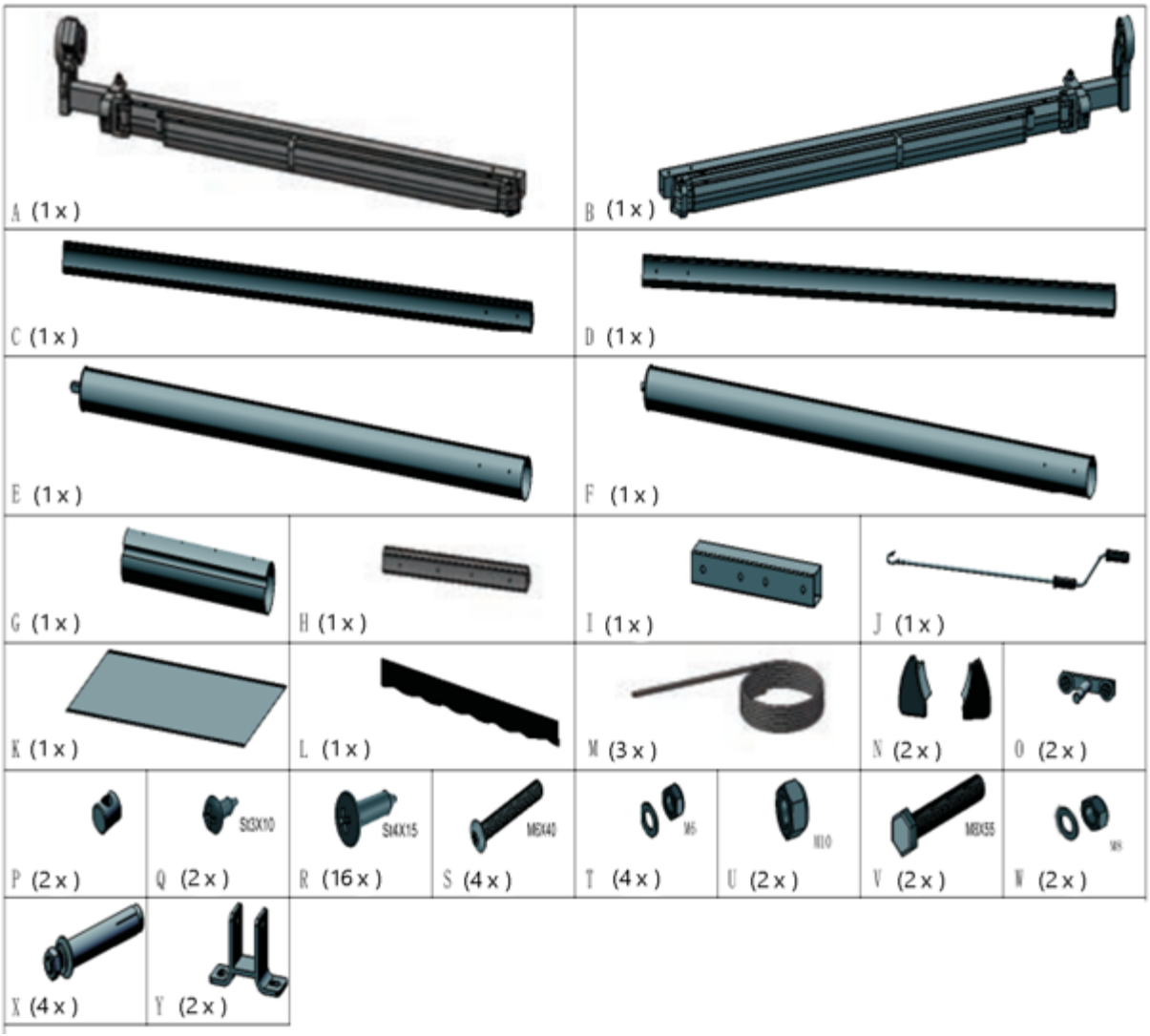
Introduction

Thank you for choosing to purchase this quality product. To minimise the risk of injury, we ask you to always take some basic safety precautions when using this product. Please read this operating manual carefully and make sure that you understand it.
Keep these operation instructions in a safe place.

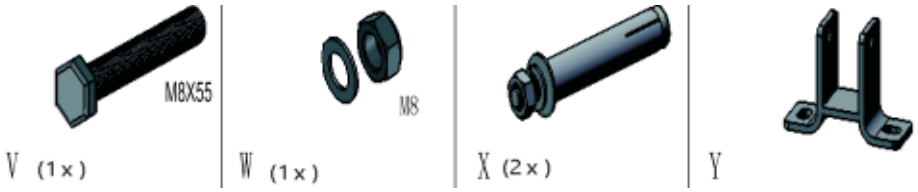
Parts

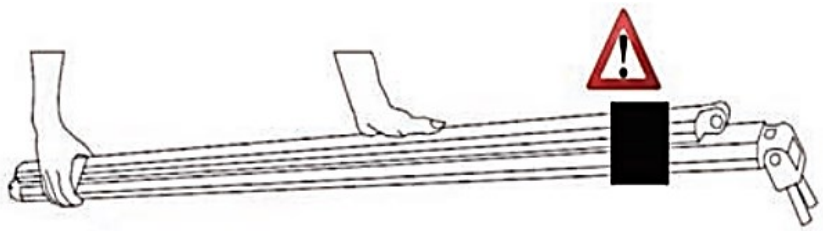


Part	Name	Part	Name	Part	Name
A	Torsion bar with arm (left)	**J**	Hand crank	**S**	Screw M6×40
B	Torsion bar with arm (right)	**K**	Awning fabric	**T**	Screw M6
C	Front bar (right)	**L**	Valance	**U**	Screw M8×55
D	Front bar (left)	**M**	Awning cord	**V**	Screw M8×55
E	Roller (left)	**N**	Front bar caps (left, right)	**W**	Screw M8
F	Roller (right)	**O**	Connecting piece	**X**	Expansion screw
G	Roller connector	**P**	Plastic bolt for cover and cord	**Y**	Wall brackets
H	Front bar connector	**Q**	Screw 3×10		
I	Torsion bar connector	**R**	Screw 14×15		



Note! The awning over 3.5 m should also include the following parts:





Attention! Awning arms can cause injuries.

Do not cut the straps of the awning arms until the awning has been **completely** assembled!

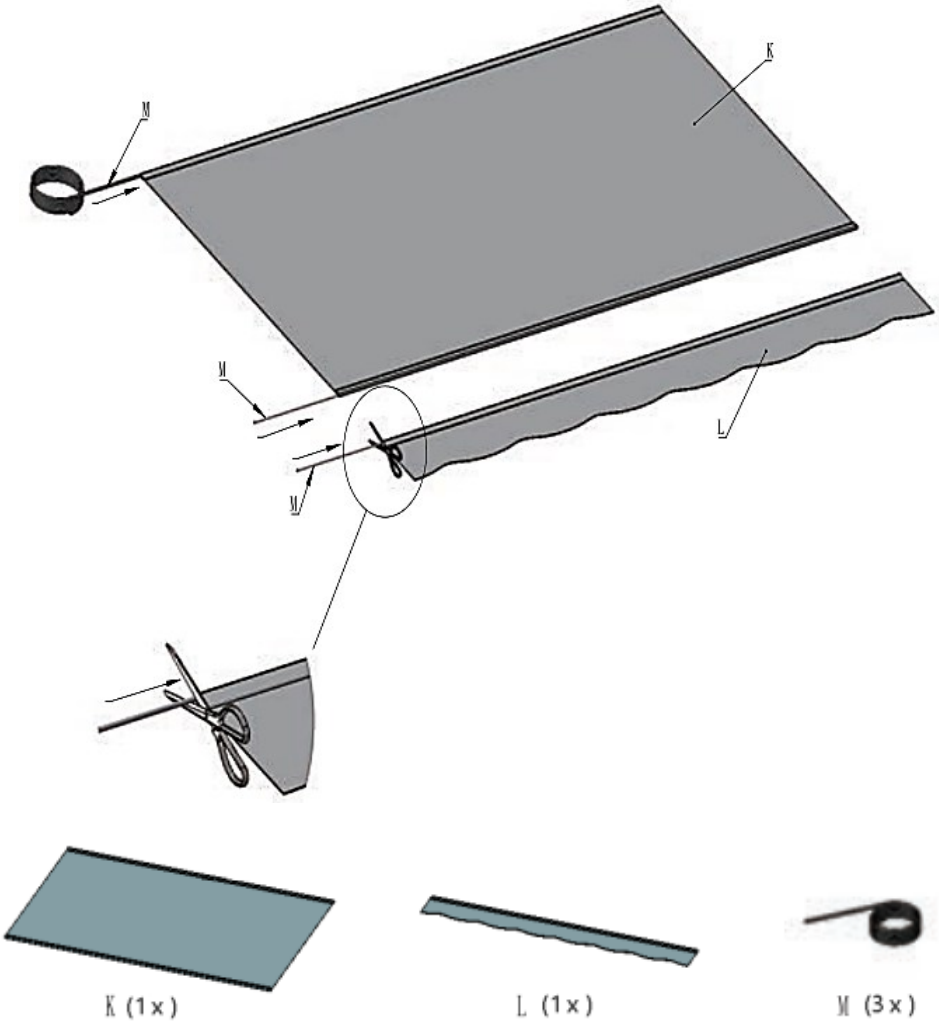
Bad

Right

Assembly

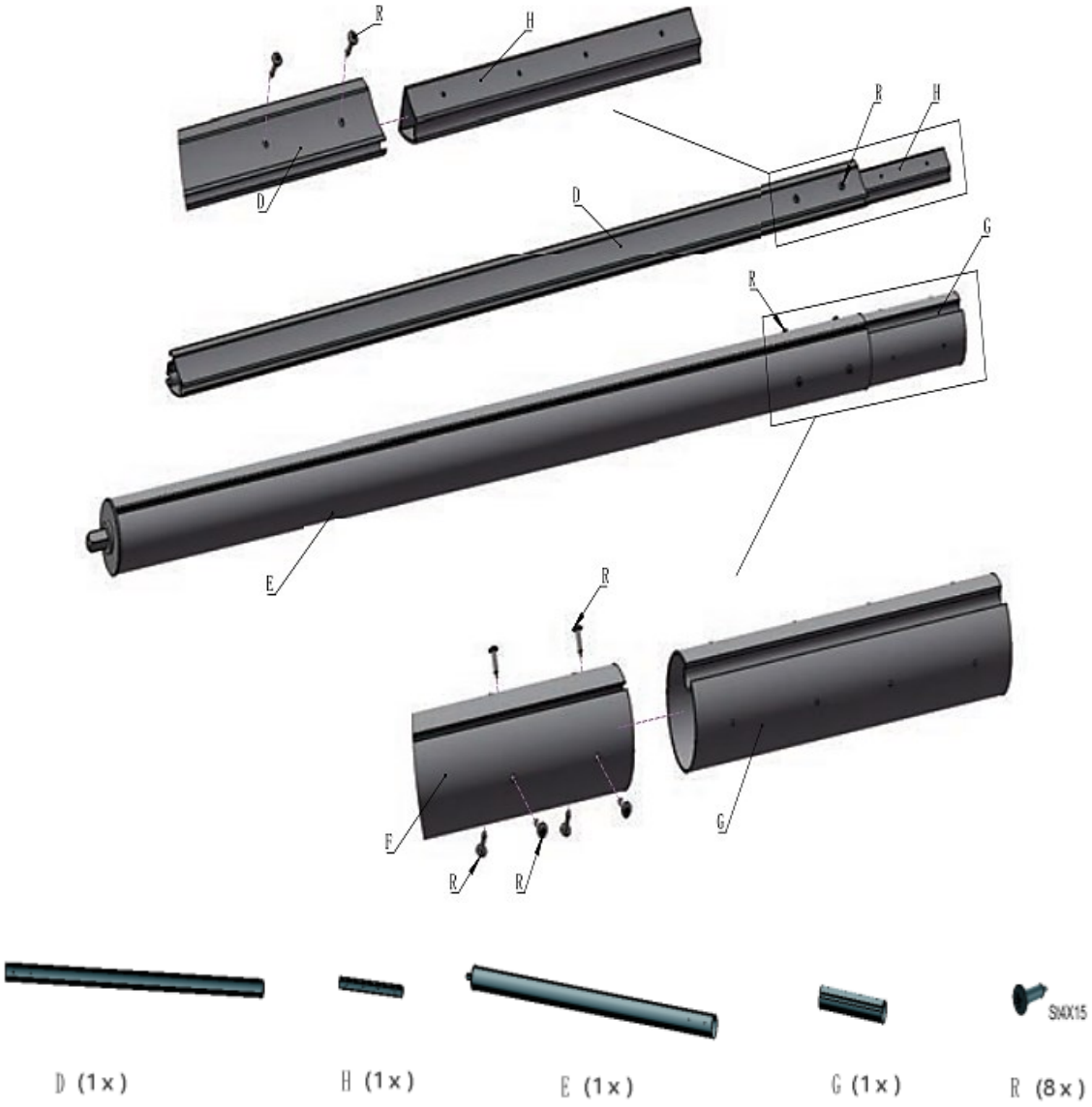
Step 1

Thread the awning cord and cut the cord to the length of the fabric.



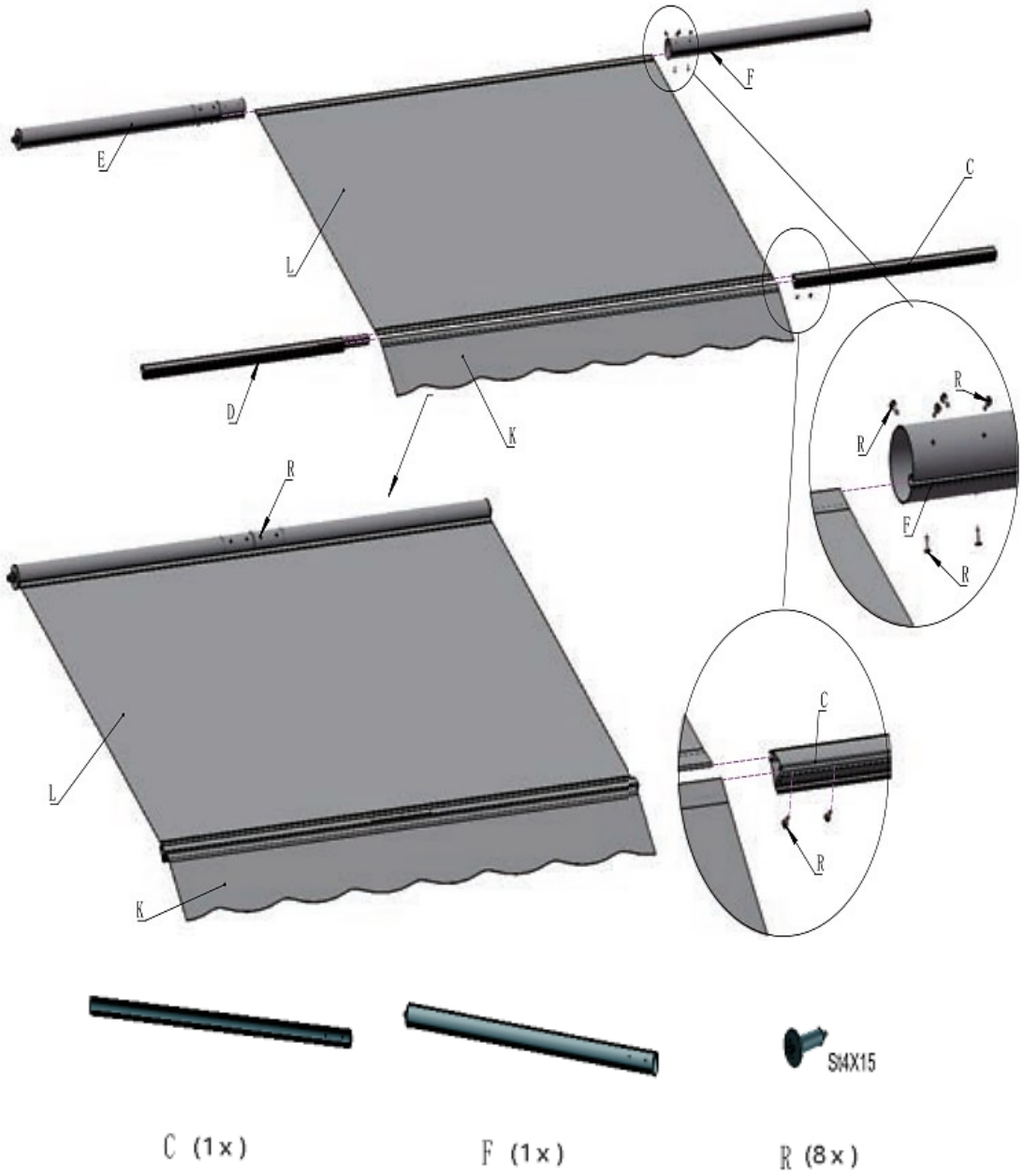
Step 2

Connecting the roller and front bar (left)



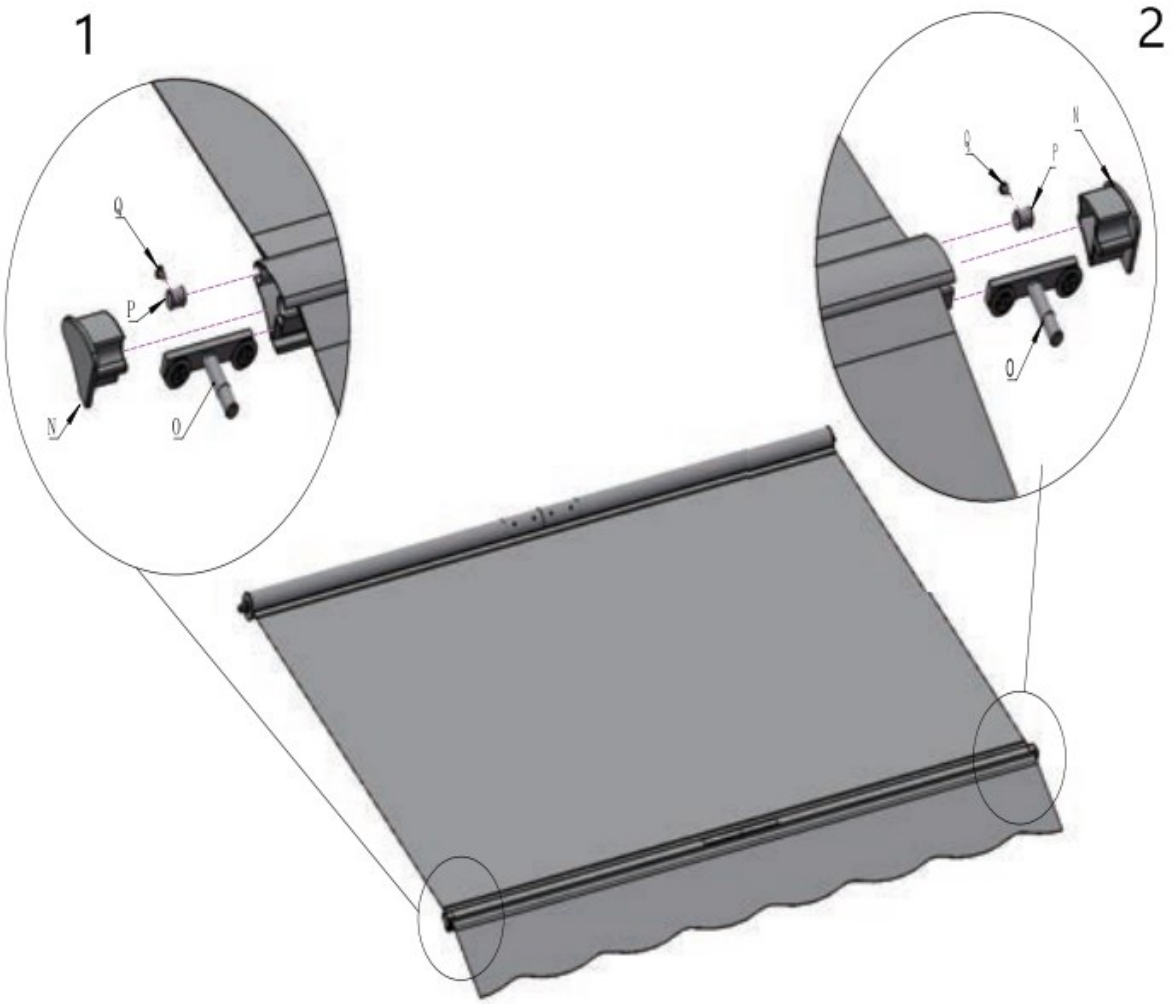
Step 3

Mounting the awning fabric and connecting roller and front bar



Step 4

1. Plug the connector into the front bar.
2. Insert part P into the front bar and secure with screw Q.
3. Install the bar caps.

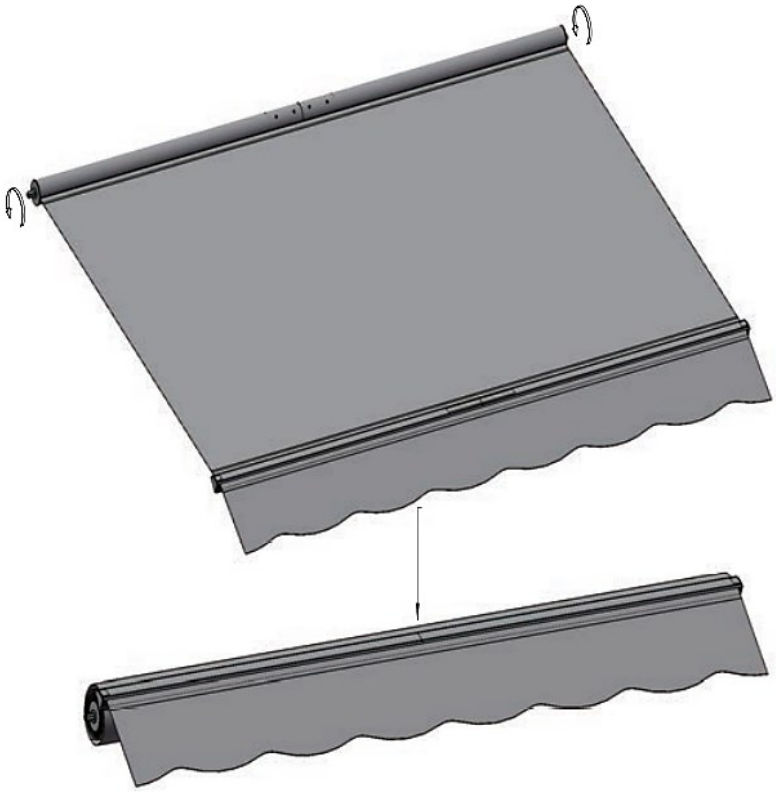


1	Left
2	Right

N (2x) O (2x) P (2x) Q (2x)

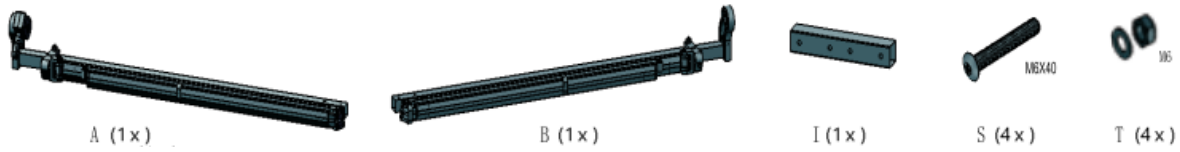
Step 5

Roll up the awning fabric as tightly as possible.



Step 6

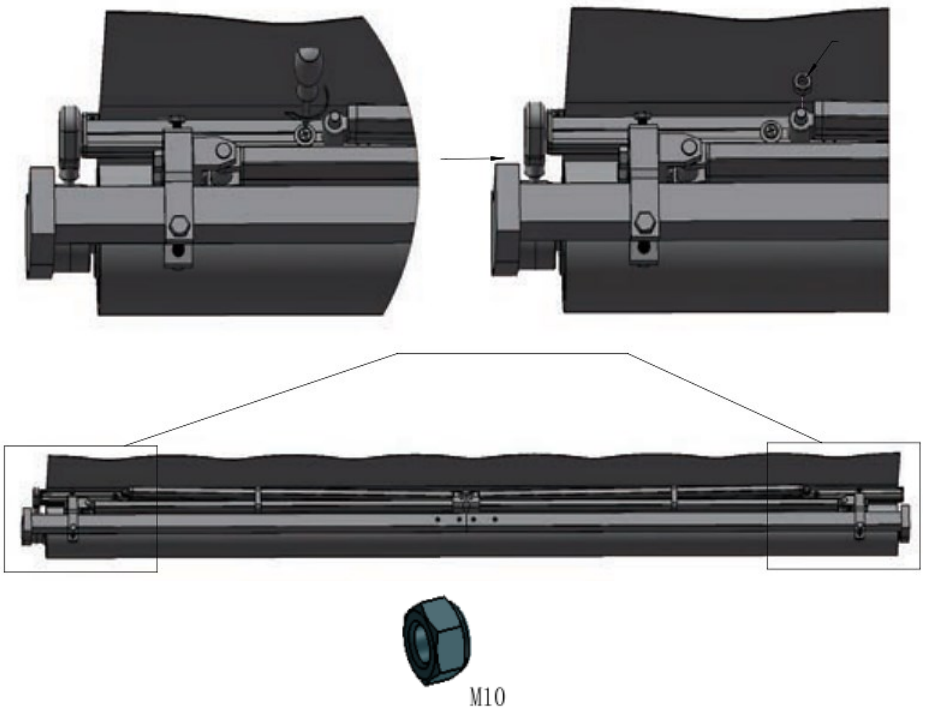
1. Connect the torsion bar, but screw it on later.
2. Insert the roller into the square hole of the gear and the round square of the roller bracket.
3. Connect the two torsion bars and screw them together.



Step 7

Adjusting the position of the awning

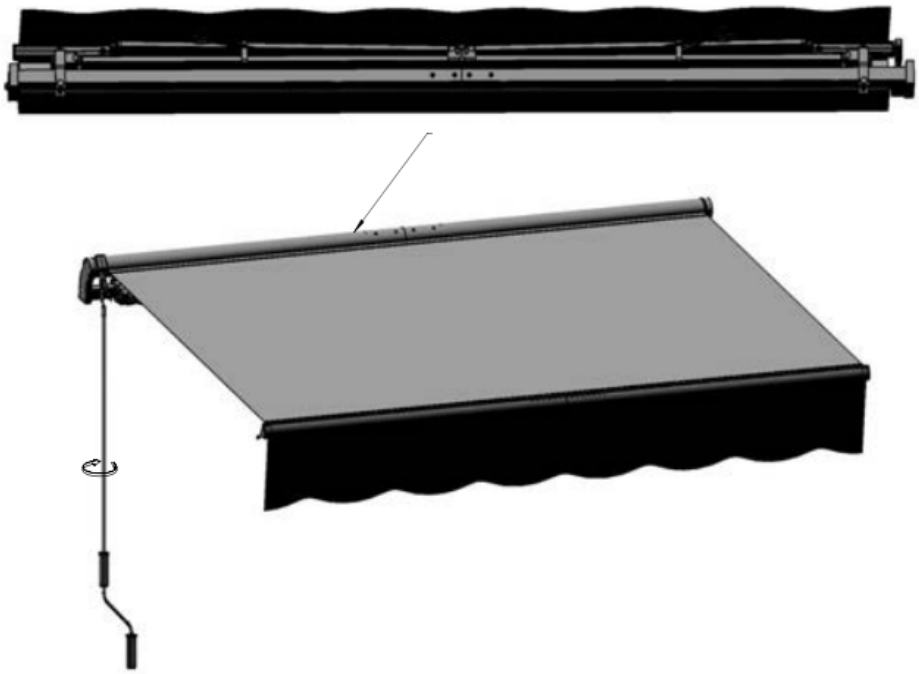
1. Move the arm until it is led through the front bar.
2. Align the bar and arm and tighten the screw O.
3. Then tighten the adjusting screw U up to 90 %.



Step 8

Completing the assembly of the awning

1. You can safely cut the straps that hold the awning arms and torsion bar together. The assembly of the awning is complete.
2. Now proceed to the wall mounting section.



Wall mounting

Notes on wall mounting

This awning can be attached to reinforced concrete, brick, and wood. However, only screws suitable for mounting on brick and reinforced concrete walls are supplied.

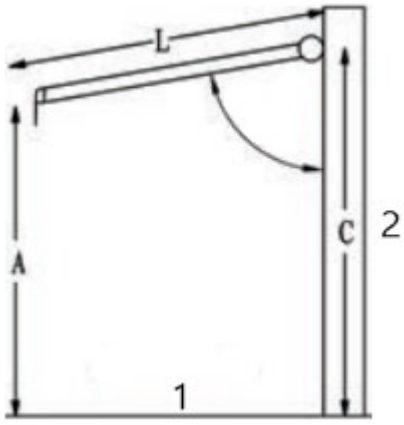
If you choose to attach your awning to wood, use carriage bolts of the appropriate length and diameter to attach the awning to wooden beams. The size of the screws depends on the thickness of the wood. For the safest possible installation, we recommend hiring a professional.

Attention!

- Never try to attach the wall brackets to loose bricks or to surfaces that are not completely solid!
- Correct positioning of the brackets is the most important consideration when installing the awning. It is critical that you attach any mounting brackets to a pillar, beam, roof beam, or other vital component.
- If all brackets are not securely fastened to the wall, the awning could collapse causing injury or, in the worst case, death.

Mounting height

It is important that you take the inclination of the awning into account before attaching the wall brackets. If you wish to mount the awning e.g., above a patio door, leave at least 20 cm above the door frame and ensure that the awning does not interfere with the opening and closing of the door. The angle of inclination can only be changed slightly. So keep this in mind when deciding where to put your awning.



1	Side view
2	Wall

- The recommended mounting height is between 240 and 365 cm.
- The ideal inclination angle (when the awning is fully extended) has already been set at the factory, so you do not need to change the inclination/angle.
- The angle should be as shown.

Calculations

You can use the following formula to calculate the appropriate angle:

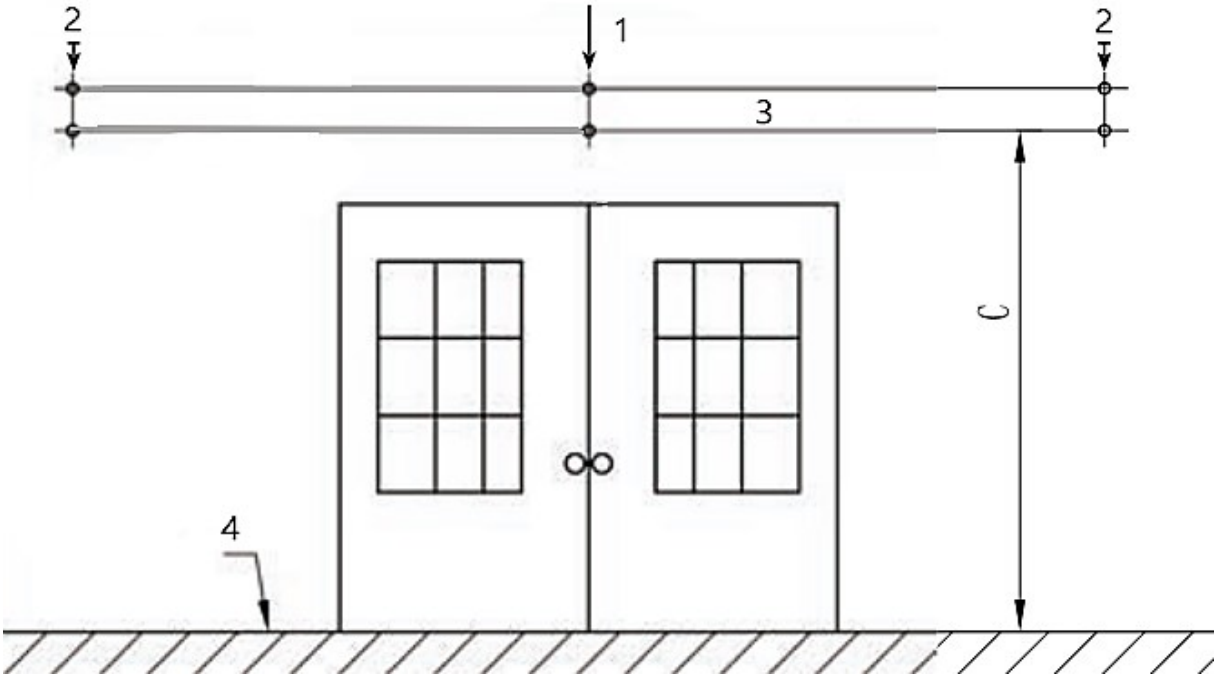
$$C = A + 0.17 \times L$$

A = desired height of the front bar
L = length of the extended awning arm
C = height of the wall bracket

Step 1: measurement of the installation site

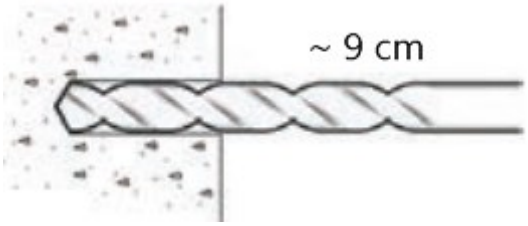
1. Measure the length of the awning along the wall that you intend to attach it to. This line is the highest point of your awning and lines up with the top of the wall bracket. Using a spirit level, draw a line, e.g., with chalk.
2. **Important!** Make sure that the line is perfectly level.
3. Ensure that the line is centred over the patio door, window, or other part of the building, if applicable.
4. Now measure the midpoint of the straight, centred line and mark it. This is where the middle wall bracket is attached.
5. Take a wall bracket and place the top of it perfectly level under the line as shown in the picture. Use chalk or a pencil to mark the position of all wall brackets and their screw holes.

Awnings under 330 cm	require a total of 2 wall brackets, one for each end of the torsion bars
Awnings 330–426 cm	require a total of 3 wall brackets, one for each end and one for the middle
Awnings 426–609 cm	require a total of 4 wall brackets, one for each end and two for the middle



Step 2: drilling the screw holes

1. After drawing a straight line on the wall and marking the position of the wall brackets and their screw holes, drill holes for attaching the brackets.
2. Using a 19 mm masonry bit, drill the first screw hole approximately 9 cm deep as shown. This must be drilled through a solid brick or concrete so that the awning has sufficient support.
3. Drill the remaining holes according to step 2.

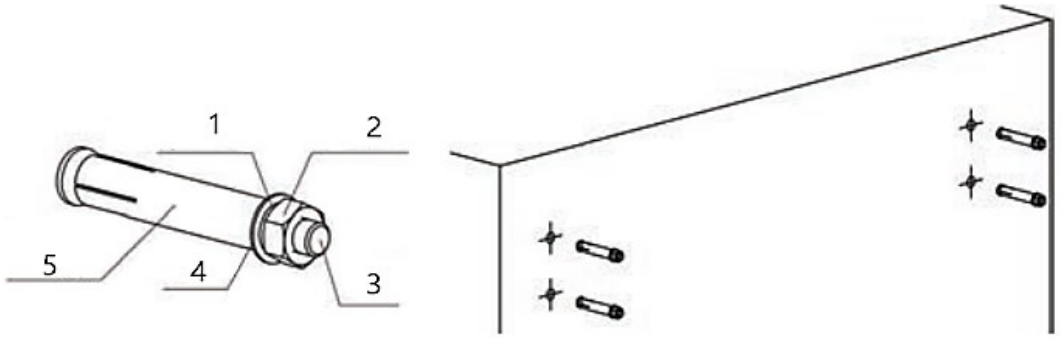


Attention!

- All screw holes must be aligned vertically and horizontally so that the awning hangs straight. Check for correct alignment before drilling if unsure.
- The diameter and depth of the mounting holes must be the same size as the expansion bolts.

Step 3: preparations for mounting

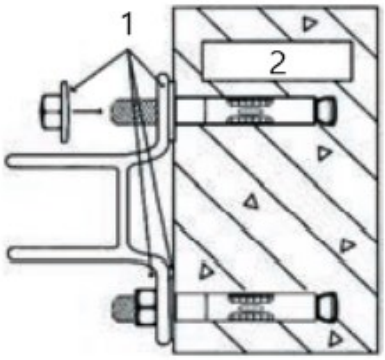
1. Now that all the holes have been drilled, insert the expansion bolts.
2. It may be necessary to drive the bolts in with a mallet (or non-metallic hammer).
   Note! If a hammer is required for assembly, we recommend putting the nut on the bolts (loosely) before hammering to avoid damaging the threads.
3. Make sure that the bolts are secure but do not protrude more than 2.5 cm from the wall – enough for the wall bracket to be attached to them.
4. Tighten the bolts securely with a 19 mm hex wrench. It is best to use a closed-ended hex wrench rather than an open-ended wrench to avoid damaging the nut if the wrench slips off.



1	Spring washer
2	Nut
3	Bolt
4	Washer
5	Expansion screw

Step 4: installing the wall brackets

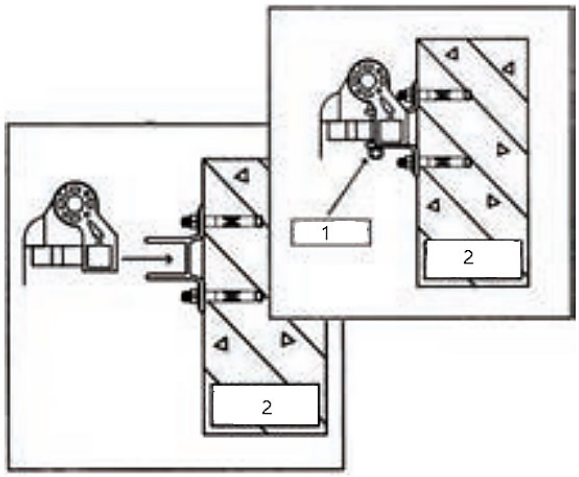
1. When the bolts are tight in the wall, remove the nuts that are loose on them.
2. Put a wall bracket on a set of bolts. This should be easy to do if the screw holes are properly aligned.
3. Once the wall bracket is seated on the bolts, place a washer over each bolt, then secure with a nut as shown.
4. The bracket must be firmly attached to the wall. If it moves, you need to tighten it even more.
5. Repeat this step for each wall bracket. When that has been done, all wall brackets will be securely in place.



1	Washer
2	Cross section of the wall

Step 5: installing the awning

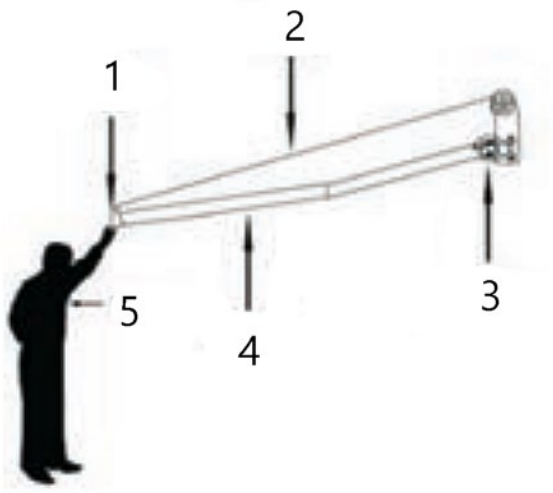
1. With the wall brackets securely in place, the awning is secured to the brackets.
2. At least two ladders are required to isntall the awning.
3. Place the expansion bolts onto the wall brackets and tighten.
4. Finally, tighten all expansion bolts.
5. Open your awning fully using the hand crank or a motor (if you have one). The front bar should be horizontal.
6. Your awning is now fully assembled. If you are happy with the height of the front bar (inclination of the awning), you do not need to do anything else. If you are unsatisfied, read the following section.



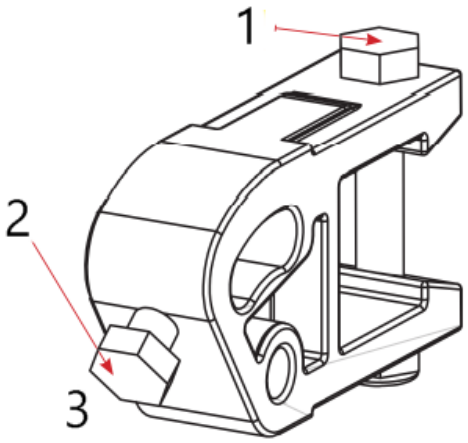
1	Safety bolt
2	Cross section of the wall

Adjusting the inclination/angle of the awning

Every awning comes with a pre-set inclination (angle) that is considered ideal. However, if you need to make an adjustment, it can be done in a few simple steps.



1	Front bar
2	Awning fabric
3	Arm bracket
4	Awning arm
5	Helper

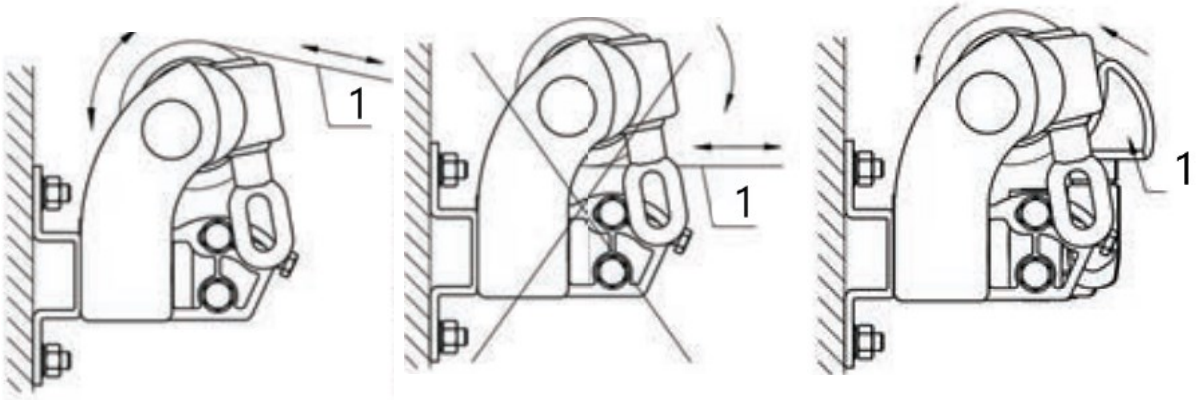


1	Tighten
2	Loosen to adjust
3	Jacking screw

Attention! When you raise the front bar, the inclination (angle) of the awning fabric decreases, increasing the risk of rainwater collecting on the fabric. To prevent the awning from collapsing under the weight of rainwater, you must retract it when not in use. Failure to do so may result in the awning breaking or personal injury.

Note! Note that the front bar must be adjusted so that it is completely straight. Any misadjustment will result in incorrect retracting.

Common mistakes



1 = fabric

Right

1 = fabric

Bad

1 = front bar

Warning! When the front bar touches the roller as shown in the picture, do not try to approach it further, otherwise the product may be damaged.

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