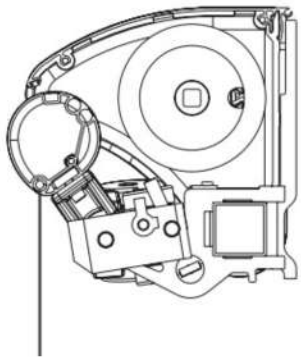
TA - 5 Series Retractable Awning

Installation Guide



If nothing else, at least read this page!

Talius has been producing retractable awnings since 2024 and in that time we have found that most issues experienced are related to the product installation. It is essential to follow the installation guidelines. We urge installers to take the time now to read the instructions and avoid costly, time-consuming problems later. It is only necessary to read through a small fraction of this booklet as it covers all types of Awning installations.

We hope that this installation guide is easy to use. Should you discover an error or an omission please tell us about it. Parts and options change continually so we are updating all the time.

Should you require any support or have any questions, please call us from site:
888-550-6205

We thank you for putting your trust in us.

Sincerely,

Your Talius Customer Service Team

TALIUS

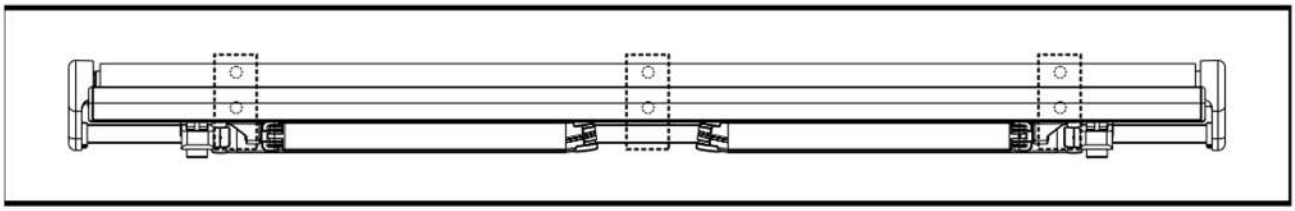
D1. Opening the packaging:

Open the cardboard packaging. Be careful when using a knife to cut the straps. If the cardboard is slit open carelessly, the paint can quite easily get scratched. You might even cut right through the fabric. It is advisable to remove the plastic wrapping from the ends only, since during assembly, the plastic protects the fabric from dirt.

D2. Checking the contents:

The TA - 5 is delivered, ready for assembly. They come with the necessary screws.
An exception to the rule is made for coupled awnings of more than 7 metre with a continuous fabric. In this case the fabric will be joined to the awning on site.
Carefully check the package contents and, before embarking on any of the assembly activities, measure the main dimensions.

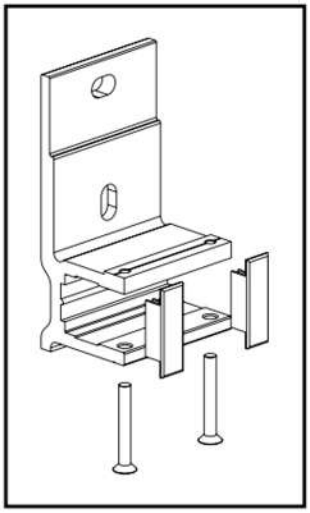
D3. Assembling the consoles:



Take the consoles out of the packaging and divide them over the number of folding arms (figure 1).

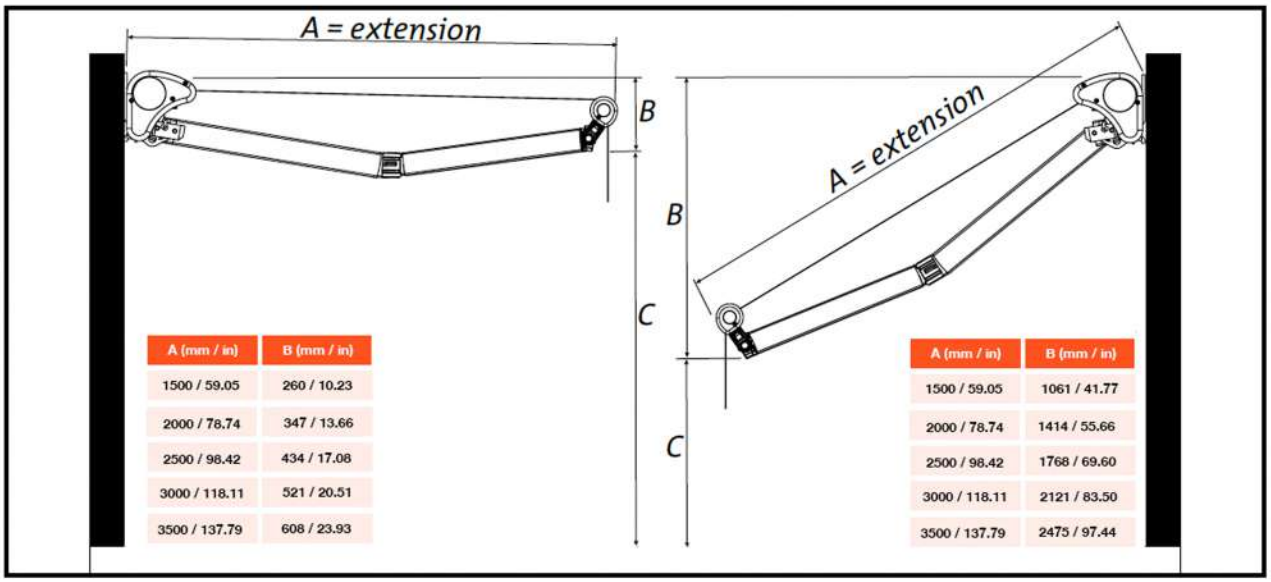
Make sure that the consoles are always as close as possible to the arms fittings, on the inside of the arms.

If more consoles are supplied than there are arms, with the wider screens, then the other console is placed in the middle of the screen, against the sag from its own weight. As a temporary measure, slide the consoles onto the awning assembly pole, so that you can easily measure the distance to the exterior.
Then, mark the location of the consoles on the wall, taking into account the following:



a. The awning must be positioned in such a way as to leave the same distance between the left-hand and the right-hand edge of the awning and the frame of the window.
b. The consoles must be placed horizontally at right angles to the pole. If necessary, use cord and level.
c. In order to allow for sufficient through height (C) underneath the extension pole, it is essential to fit the awning sufficient high up the wall.

The minimal angle of the awning is approximately 10 degrees. The maximum angle is approximately 45 degrees. A sloping clearance of 350 cm (A), corresponds to a minimal gradient of 61 cm and maximum 247 cm, irrespective of the height of the extension pole. You can find an indication for the measures in the table for minimal angles.



A (mm / in)	B (mm / in)
1500 / 59.05	260 / 10.23
2000 / 78.74	347 / 13.66
2500 / 98.42	434 / 17.08
3000 / 118.11	521 / 20.51
3500 / 137.79	608 / 23.93

A (mm / in)	B (mm / in)
1500 / 59.05	1061 / 41.77
2000 / 78.74	1414 / 55.66
2500 / 98.42	1768 / 69.60
3000 / 118.11	2121 / 83.50
3500 / 137.79	2475 / 97.44

If the walls are made of cellular concrete or hollow brick, the correct type of screw must be used, e.g. coach bolts, etc. For this, take comprehensive advice from your supplier of attachment materials. The company Harol accepts no responsibility for any attachment screws that come loose.

Warning:
- When attaching consoles, do not use screws with large heads or thick washers. Protruding heads may damage the fabric when it is rolled up and down.
- It is advisable to order extra assembly brackets if the walls are suspect.

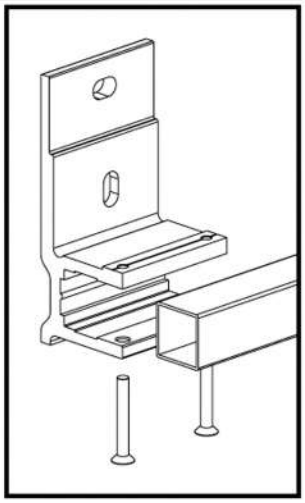
Now, drill the attachment holes for the wall screws.

D4. Hooking in the awning:

Hold the awning at both ends and hook the assembly pole in the consoles. Check whether the awning is centred.

Tighten the attachment screws of the consoles firmly before operating the awning.

The awning is now ready for further adjustment.

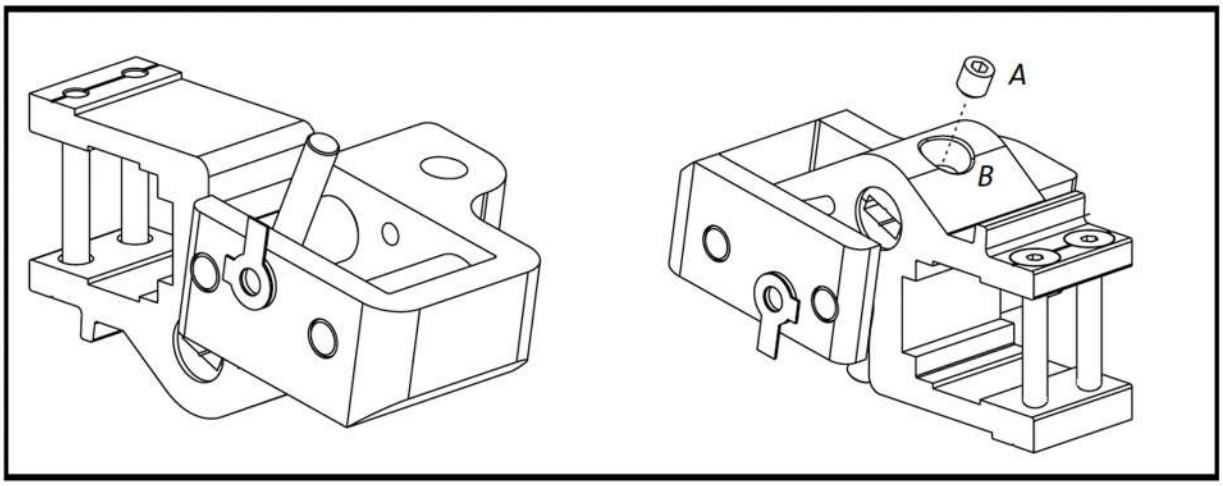


D5. Adjusting the angle:

Unroll the awning and check the position of the angle (for operating the awning: see point D7 and D8).
The awnings are delivered from the factory at a standard angle of approximately 10 degrees to the horizontal.
It will always be necessary to adjust the awning to compensate for any unevenness in the wall, even when the minimal sloping is acceptable.

The awning is provided with two tilting mechanisms, to which the arms are fitted. First unscrew the inner-hexagonal pointed screw A near the two tilting pads.

This adjusting screw is located on the lower side of the tilting mechanisms.
These adjusting screws operate to block both mechanisms and prevent the awning from blowing over. Once the pointed screws A have been removed, the head of the adjusting screw B is freed and can be operated using an Allen key.



If adjusting screw B is turned to the right, the extension pole is raised, and if turned to the left, the extension pole is lowered. When turning, support the arm ends. A screw will turn more easily if it is not supporting the weight of the arm. This certainly will apply if the arms have to be raised.

To be sure that the pole is horizontal, stand in front of the middle of the awning.
Look over the extension pole towards the cover to ensure that both sections are parallel.

Once the angle is correct, both tilting mechanisms must be securely tightened. To do this, tighten both pointed screws 'A'. Now, replace the covers on the side consoles.

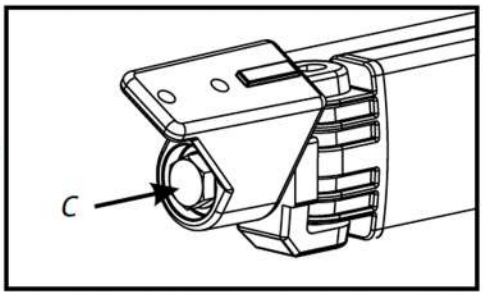
The TA - 5 adjusting mechanism will guarantee continuous control of the awning. The system is both accurate and simple to operate. It is therefore essential to ensure that the awning is perfectly horizontal. The correct setting of the tilting mechanism will also facilitate the rest of the assembly.

D6. Adjusting the extension pole:

The distance between the extension pole and the housing will depend on the angle of the arms. In order to vary the distance between the pole and the housing and to position the extension pole correctly, both arms are provided with a rotational system, always allowing the front frame to be correctly positioned.

Follow these instructions.

Roll back the awning. Study the position of the extension pole and see what adjustments are required to allow the extension pole to fit correctly.



Now, unroll the awning, allowing head and shoulder room

between the awning and extension pole and ensuring that the bolts C of the rotational system can be easily operated. To adjust the front frame, unscrew C in the rotational mechanism on both arms.

Tip: the more the arms are closed, the less the fabric is tightened the easier the adjustment.

When these screws are loose, the tension of the fabric will rotate the front frame, with the upper side towards the wall. The front frame can now be correctly positioned by rotating it. Then quickly tighten screw A. The front frame is now fixed in position.

D7. Crank handle operation:

The standard operation device is a worm-screw mechanism supplied with a transmission ratio of 1 to 7. This mechanism requires no special adjustment. Only a few factors must be taken into account:

- The crank handle should be positioned as near as possible in line with the eye-hoisting device while turning.
- Ensure with this type of awning that the fabric rolls down along the top.
- Fully unroll the awning until the arms are almost in straight line, at which point the arms have reached their maximum load-bearing limit.

D8. Electric motor:

For connecting or adjusting the electric motor, see point E1 and E2.

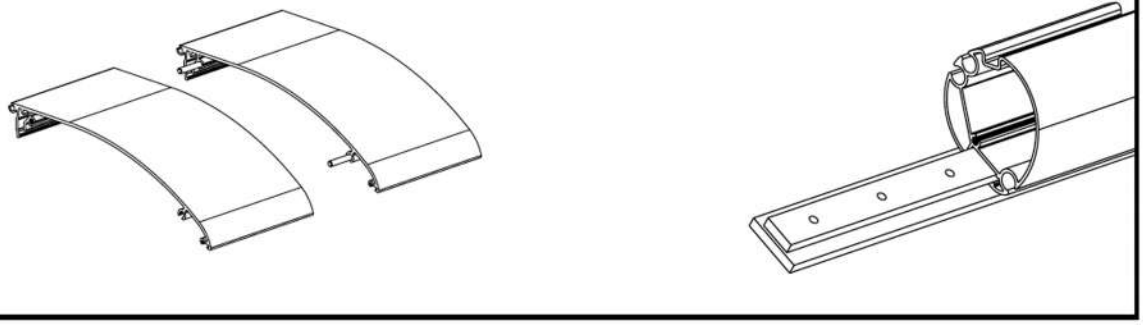
D9. Coupled awnings:

Depending on your order, awnings can be coupled in two different ways.

a. Continuous fabric

In this case, the fabric will be joined to the awning on site. Take the following steps. Place both parts of the awning in the consoles and join the supporting poles, the top roller, the covers and the extension pole. Use the links supplied and fasten them tightly.
When both components have been attached to the wall and coupled, the awning must be left open – this is to be able to assemble the fabric.
Proceed as follows: attach around the front pole a number of long (2 x pole) and sufficiently strong

Great care must be taken there. The arms are under great stress. Before having taken the necessary precautionary measures never remove the straps that keep the arms in a closed position.

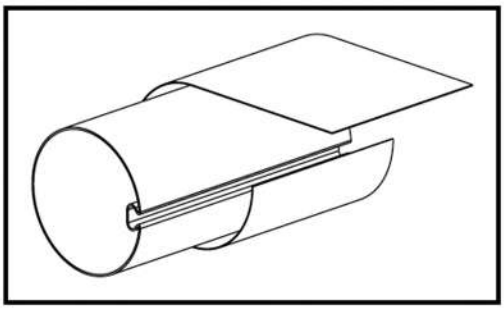


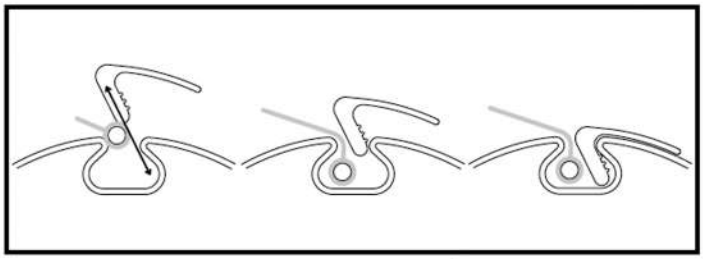
cords or straps (spread across the whole length of the front pole). Then pull the cords and/or straps over the bearing pole. Now spread the ends of the different cords among the necessary persons. When the straps of the arms are loosened one can, using the cords, hold the front frame steady and slowly let it fall.
Then take the fabric and pull it with the border and fabric rod over the entire length through the fabric groove of the front frame (take care for marks from dirty hands).

Note! The fabric is provided with a thick and thin fabric rod. Use the seam with the thick fabric rod!

The thin fabric rod immediately comes out of the fabric groove.

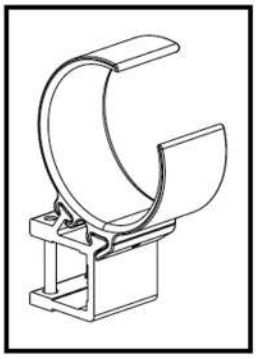
Now further unfold the fabric and pull it along above the roller axle. Ensure that the roller axle has the fabric groove facing forward. Pull the fabric further behind the roller axle up to the fabric groove. The seam with the thin fabric rod inside can now be clipped in the fabric groove. Work step by step and make sure the clips are firmly attached along the whole length. Slip the liner bearing of the fabric roller support into a position which will allow the fabric to be rolled up without getting caught. The support has to be positioned underneath the reinforcement strip. If the support is not fitted underneath the reinforcement strip, the fabric will crease at that point and may even catch behind the support. Then roll the fabric on the top roller. Watch in which direction the fabric turns.





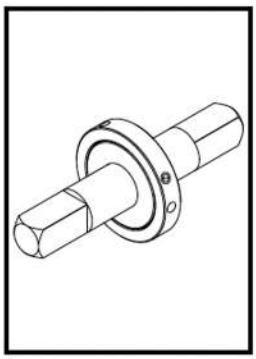
With a TA - 5 awning, the fabric should always travel over the top of the axle.

Fully unroll the awning. Make sure that the fabric rolls up straight on the top pole, and adjust if required. Check that both arm pairs fold back simultaneously. If significant differences occur, the attachment of the arm to the extension pole has to be moved.

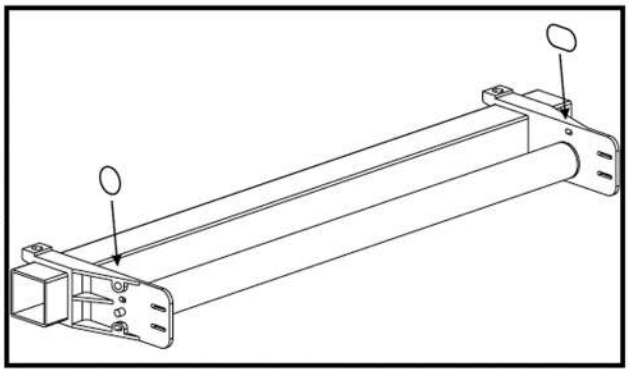


b. Two fabrics and a fabric split covering

Where there are two fabrics and a fabric split covering, two complete awnings will be supplied, one of which is provided with the joint drive mechanism, and the other with a coupling. Position the consoles on the wall and follow the instructions applicable to a single awning slipping the part with the drive into these supports.
Take the second section of the linked awning and slip it into the supports. Position the two sections opposite each other, ensuring that the two fabric grooves are in one line with each other. Lock the coupling discs using the set screws.
If the connection is not entirely correctly implemented, the fabric of the coupled part may hang somewhat slack. For this reason the coupling discs are provided with set screws and can be turned slightly in relation to each other to tension the slack fabric.



If the awning is provided with a fabric split covering, the assembly pole will be fitted with two supports to carry the fabric roller close to the coupling. Attention! Both supports are identical.
Ensure that the left support is so assembled that the round recess points upwards.
The right support must be so mounted that the longer hole points upward.
Place the spring-loaded axle and the fabric in the supports at the front of the assembly pole.
If required, shift the support to engage the spring roller.



The fabric of the spring-loaded axle must always roll down from the top. This corresponds with the direction of the arrows indicated to the axle.

Apply approximately 7 full turns of pre-tension to the spring-loaded axle before pulling the end of the fabric to the front as far as the extension pole. (The narrow fabric is positioned beneath the large fabrics). Pull the two extension poles out just a little and slip the fabric of the fabric split covering into the groove of the extension pole. Then link the front pole using the coupling part supplied.

If the extension is 350 cm, the fabric split covering can make 28 revolutions before the spring will reach maximum tension. (350 cm = 137.79")

D10. Variovolant

If the awning is supplied with a Variovolant, we give you the next tip-off: the gear wheel mechanism of the Variovolant is not supplied with a fixed touch, so that the fabric could roll up wrongly in the extension pole. Take care that the fabric always rolls over the upper side at the front.

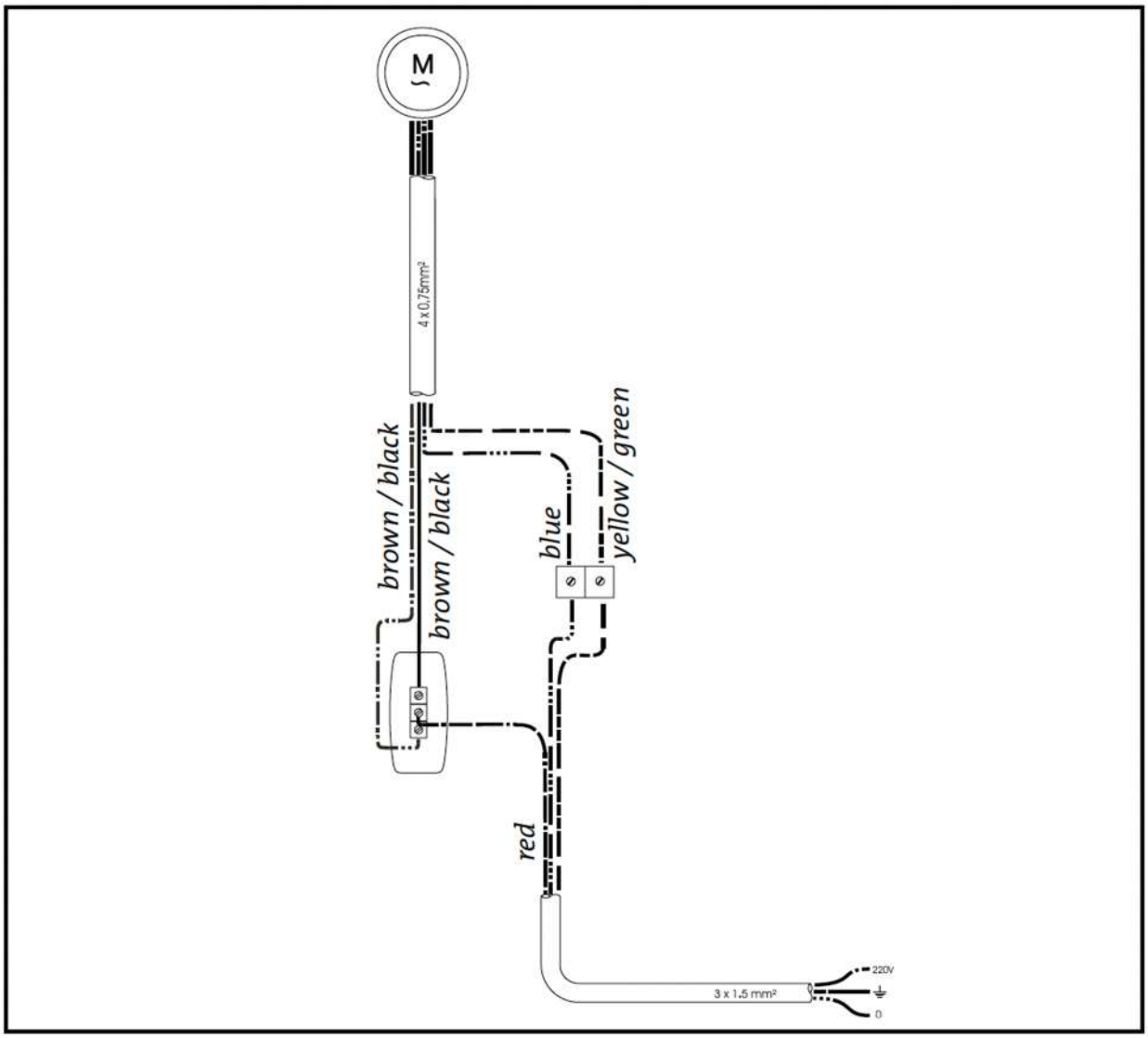
E. Connection of the single-pole switch and setting of the motor

E1-Single-pole switch

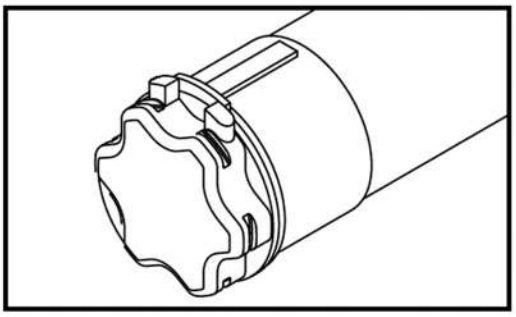
Firstly, connect the electric cable of the motor to a test cable.

Four wires exit the motor: yellow-green (earth), blue (neutral), brown and black (up- and down direction). Three wires exit the fuse box: yellow-green (earth), blue (neutral) and a phase wire.
Connect the wires according to the diagram. The phase wire exiting the fuse box is to be connected to clamp P. If necessary, reverse the brown and black wire of the motor within the switch, so that the arrows on the switch correspond to the raising and lowering direction of the awning.

Connect the two blue wires in the housing of the switch by means of a cable clamp. Do the same for the two earth wires.



E2-Setting of the end switches of the motor



In principle the motor is already set at the factory, but it may be necessary to change the setting.
For this proceed as follows:

First remove the yellow cap from the adjusting buttons.
Press in both buttons fully to against their stops so that they remain a little deeper. The end settings are then fully removed in both directions.
Now allow the awning to roll out until the desired position is reached.

Note: never allow arms to go past their straightened position but stop them a little before. Then place the switch to its neutral.

Press the white button (or yellow, depending on the building-in side) so that it rises slightly. Check the roll-down direction of the fabric roll and establish which arrow on the motor corresponds with the required rotational direction.
The buttons have the shape of a rounded arrow. The button, whose rounded side points at the rotational direction of the fabric, is the button for adjusting that rotational direction. Push this adjusting button once, so that is rises slightly. At that moment the roll-down direction is set.

Roll the blind up, until the extension pole touches the box.
Press the white button (or yellow, the other one, for the upper position) so that is rises slightly.
Replace the cover cap on the buttons.
The end switches of the motor are set now.

Important: If the awning unrolls too far without stopping automatically, turn the switch in the reverse position and let the motor run for a while and then stop.
Push the corresponding adjusting button once again; in order to set the end switch to a neutral position.
Let the motor run for a while and stop at the desired position. Push this last adjusting button once again in order to set the new adjusting point.

Always check whether the motor is actually switched off when reaching its top position. A humming sound after the extension pole is folded up, means that the motor is not adjusted properly. The motor does not stop in time.

F. Fault-finding

Your Harol awnings are 100% checked before they leave the factory. It is therefore highly unlikely that faults could be present whereby e.g. the motor does not work after assembly. Before contacting our services it is advisable to first thoroughly check a number of points. These points below will probably already provide the solution:

F1. The motor does not stop on time or it stops too early:

Adjust the settings of the motor properly according to the method described.
Make sure the SLT motor stops itself after only about 5 seconds after reaching the housing.
One can hear this by the throbbing noise of the motor that can still be heard for a short while in the housing.

F2. The motor does not run in or out:

- Check whether the motor has not thermally fused.
  In this case it is sufficient to wait 15 minutes until the motor cools off.
- Check in the two directions whether the motor is in its extreme position.
- Check that the cable is not broken between the motor and the switch.
- Directly test the motor using a regulating cable.

F3. The end profile is deeper against the cover on one side than the other:

- This may be because the fabric has not been rolled up evenly.
- Check that the fabric on the top roller and the extension pole are exactly parallel.
- If necessary, adjust the fabrics on the pole.
- Fabrics are attached to the border of the extension pole by a plug.
  If the fabric continues to roll up unevenly, add an extra piece of fabric to one of the side seams.

F4. The arms will not come in simultaneously:

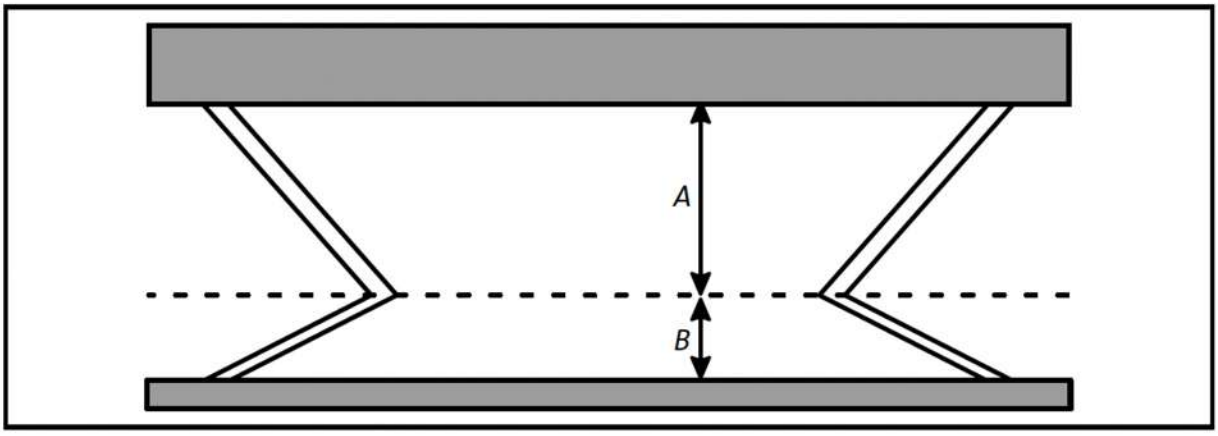
- If the attachment points of the arms on the extension pole are not at a correct distance from each other, one of the two arms will close slightly quicker than the other.
- Roll the fabric up almost fully but ensure that sufficient space is left to apply the Allen key to the clamping plate on the inside of the extension pole.

Be careful: the arms are under constant tension and may slide in the groove.

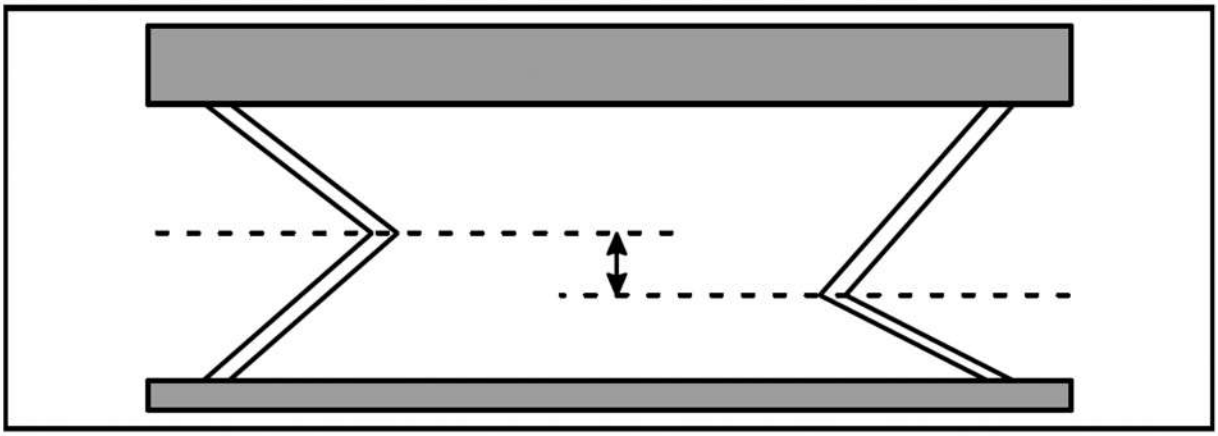
- Roll the awning up a bit further and shift the arms, ensuring that the central articulated points of the arms are in line.
- If necessary, shift the extension pole in its entirety and move it to the middle of the two lateral plates.
- Tighten the screws in the clamping plate with the Allen key.

F5. The awning makes a cracking sound:

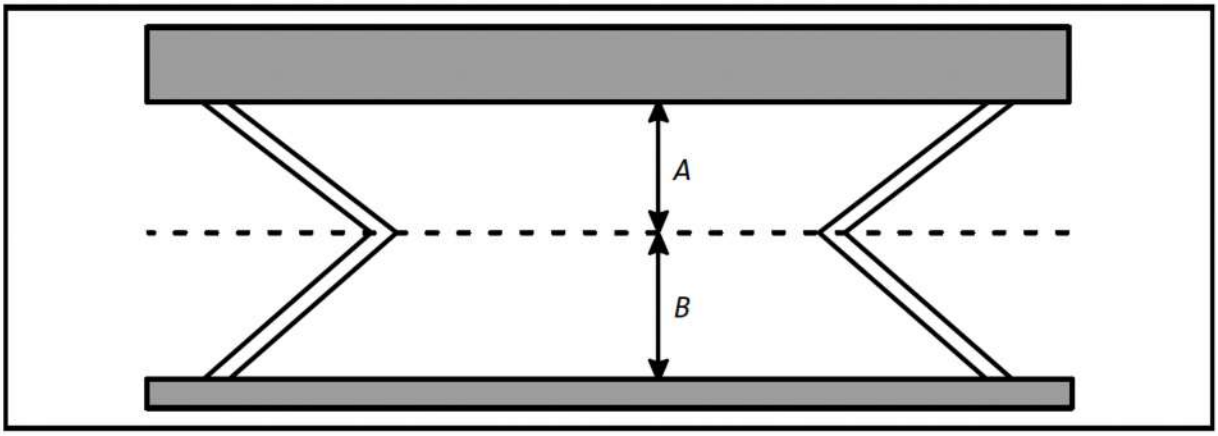
Tighten the clamping screws of the side consoles very well.



Faulty: there is no symmetry, distance A does not correspond with distance B



Faulty: the articulated points are not in one line



Correct: the articulated points are in one line and distance A equals distance B