

Conservatory awnings – shade for large areas

safe • timeless • beautiful

markilux 8800 | pergola 110 / 210 | pavillon



What to do, if...



markilux pergola 110 / 210



markilux 8800



markilux pavilion

This booklet describes in simple words the necessary assembly steps in case any problems occur.

The work described here may only be carried out by a trained markilux specialist company.

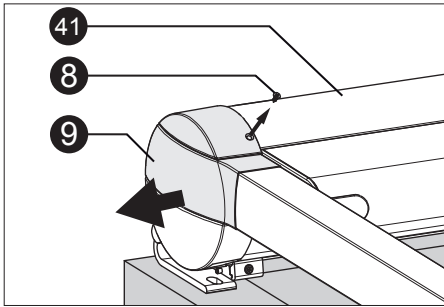
Table of contents

What to do, if...

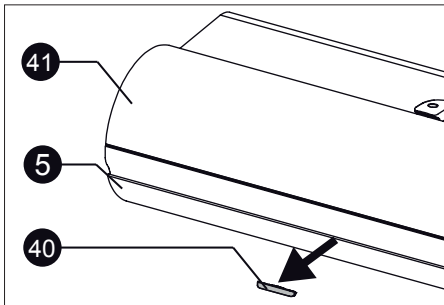
	Page
1. ... the cassette cover has to be removed?	2
2. ... the tension on the cloth has to be released?	2
3. ... the drive belt in the guide rail is twisted?	3
4. ... the drive belt has to be wound around the roller tube again? – Application of the drive belt assembly tool	4
5. ... the awning does not retract/extend or the motor limit switch is wrongly adjusted?	4
6. ... the awning stops approx. 10 - 15 cm prior to retraction position?	4
7. ... the projection profile stops before reaching the end stop in extension direction?	5
8. ... the awning has no tension on one side?	6
9. ... the awning has no tension in the middle position?	7
10. ... the awning runs unevenly?	7
11. ... the Velcro fastener / drive belt has been pulled out of the belt clamp in the projection profile?	7
12. ... the awning cloth should be replaced?	8
13. ... the projection profile cap (with carriage) should be replaced?	9
14. ... the motor should be replaced?	10
15. ... the drive belt needs to be replaced?	11
16. ... the projection profile does not retract completely on one side?	12
17. ... maintenance is required?	12
18. Motor overview	13
19. Brief instructions for "Becker" drive with electronic limit switch (standard motor without radio)	14
20. Important general guideline for this "What do I do, if, ...?" booklet	17

markilux

1. ... if the cassette cover has to be removed?



Unscrew the countersunk screw (8) on the side cover and remove the inspection cap (9). Remove the cassette lid (41).



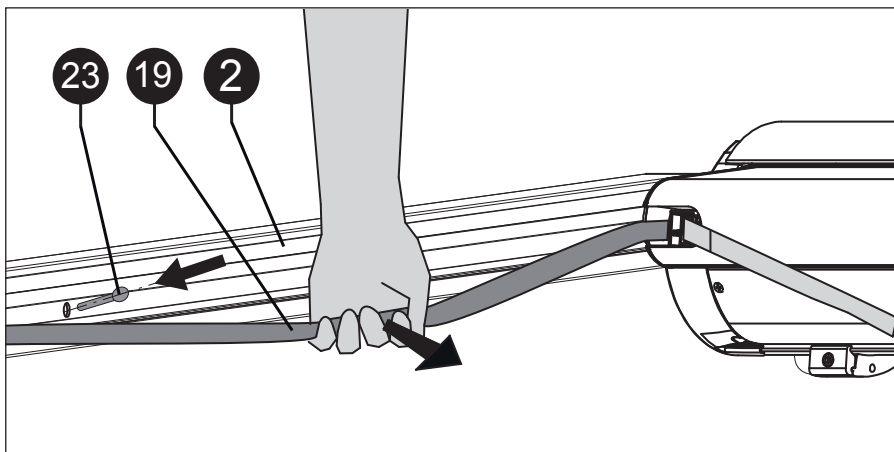
Depending on the system size, one or two storm chocks (40) are positioned at the rear between the lower cassette (5) and the cassette cover (41), which need to be removed.

Once the cassette lid (41) has been reinstalled, the safeguards (40) are reinserted.

2. ... if the tension on the cloth has to be released?

e.g. in case of motor and cloth replacement or maintenance work

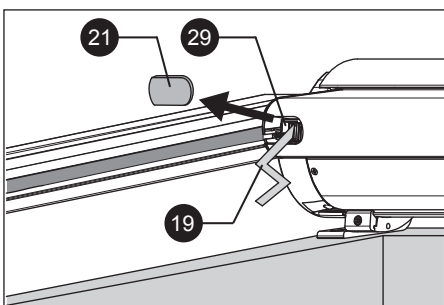
Possibility A: Retracted or partially retracted awning.



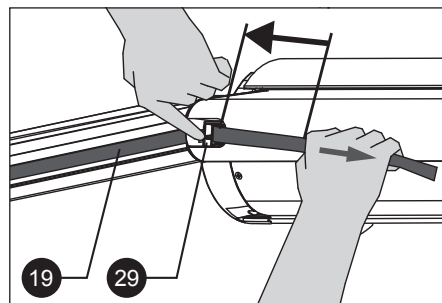
By pulling the drive belt (19) out of the guide rail (2) **in the direction of the middle of the awning**, release the tension on the clamping module and fix it using a safety splint (23) into the guide rail (right and left).

NOTE: If the cloth should be reclamped, pull out the safety splint (23) by releasing the tension on the clamping module again, see also Chapter 3, Point 4.

Possibility B: Completely extended awning.



1. Remove the cap closure (21) and remove the drive belt (19) from the projection profile (right and left).

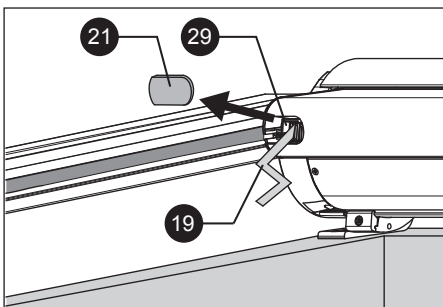
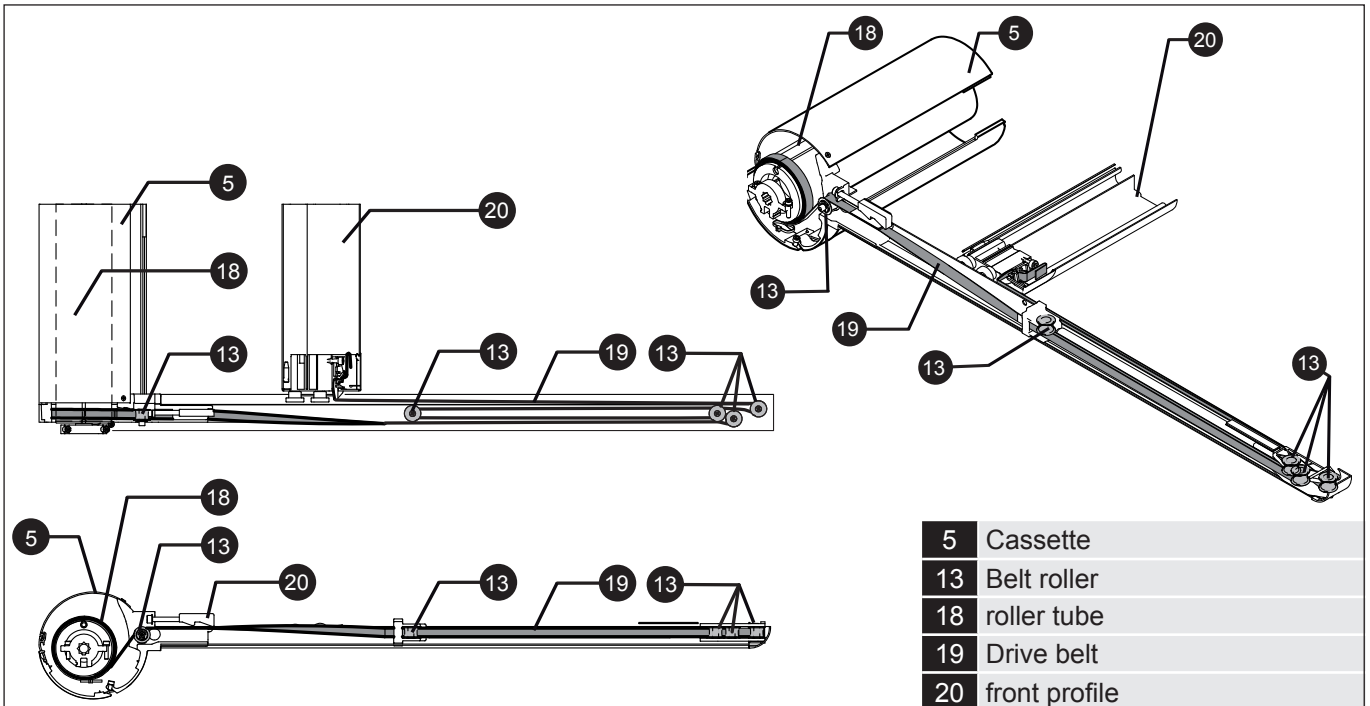


3. Hold the drive belt (19) tight with one hand, thus securing it. Press the belt clamp (29) and release the drive belt (19) carefully a little way at a time until there is no more tension on the clamping module.

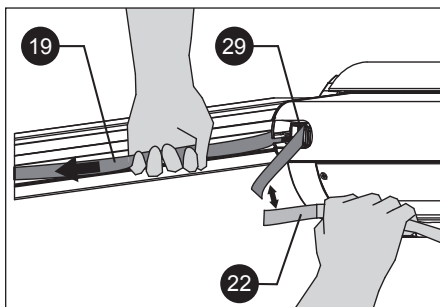
⚠ Attention! Hold the belt tightly at the loose end when the system is under tension and the belt clamp is pressed!

NOTE: If the cloth should be reclamped, proceed acc. Chapter 7., Points 5. and 6.

3. ... if the drive belt in the guide rail is twisted?

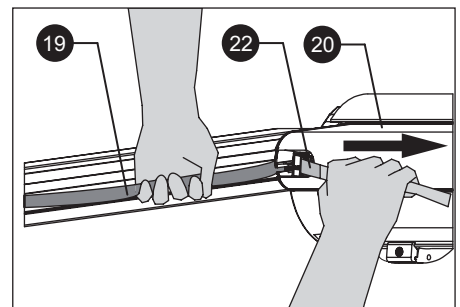


1. Release the tension on the awning cloth as described in Chapter 2 by fixing the clamping module with the safety splint (23) (right and left). Open the inspection cap (see Chapter 1). Remove the cap closure (21) of the projection profile, remove the drive belt (19).

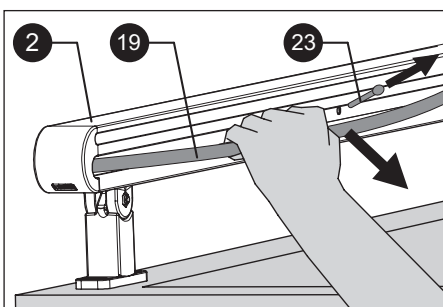


2. Withdraw the connected Velcro fastener (22) with the drive belt (19) a little way through the belt clamp (29) of the projection profile.

Remove the twist in the drive belt : With your fingers, push out the twist through the belt clamp (29).

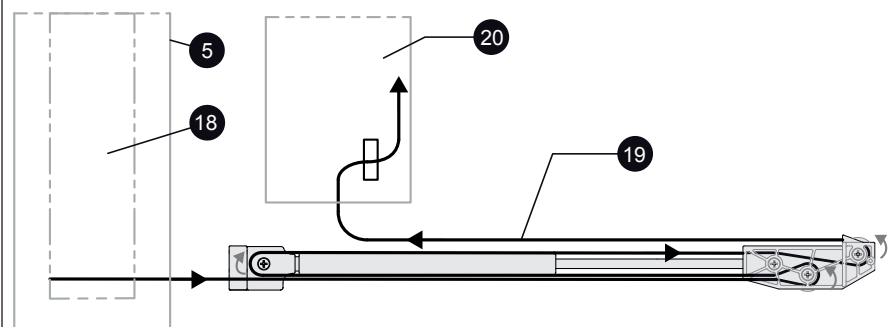


3. Carefully pull the drive belt (19) back into the projection profile (right and left) (20) with the aid of the Velcro fastener (22) through the belt clamp (29). Here the belt drive must be held under light counter-tension. Avoid forceful and sudden pulling. Store the loose end of the drive belt incl. Velcro fastener under the cap closure (21), but do not cut it off!

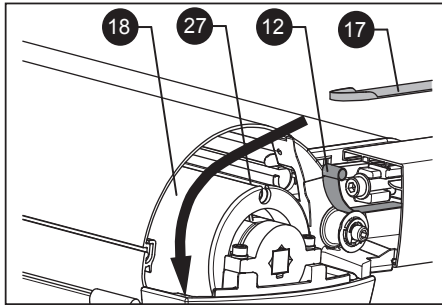


4. By pulling the drive belt (19) in the guide rail (2) in the direction of the middle of the awning, release the tension on the inside clamping module so that the splint (23) can be pulled out easily (right and left). The awning is now under tension.

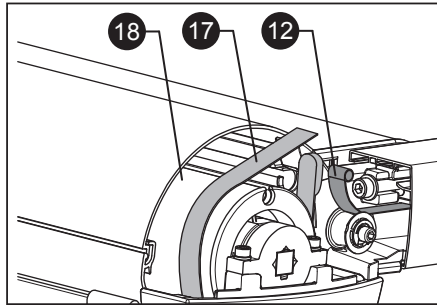
NOTE: See also Figure Chapter 15. Drive belt progression



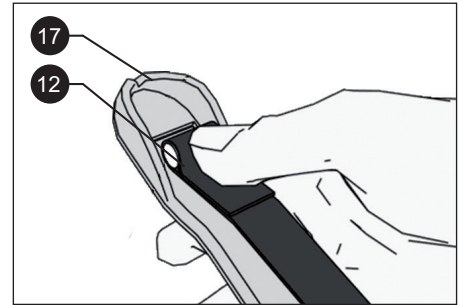
4. ... the belt has to be wound around the roller tube again? - Using the drive belt assembly tool



1. Extend the awning by max. $\frac{3}{4}$ rotation until the roller tube groove (27) becomes accessible. Guide the assembly tool (17) with the thickened end pointing upwards between the roller tube (18) and the cassette.

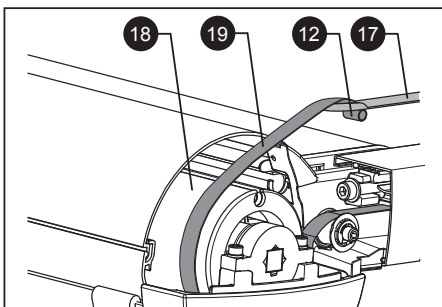


2. Guide the drive belt clamping loop (12) upwards.

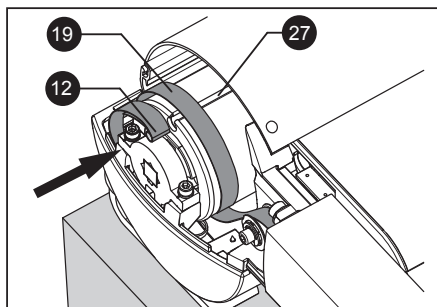


3. Press the drive belt clamping loop (12) through the slit in the assembly tool (17).

⚠ Attention! Do not twist the drive belts!



4. Retract the assembly tool (17). In this way, the drive belt (19) is wound around the roller tube (18). Remove the drive belt clamping loop (12) from the assembly tool.



5. Now guide the drive belt (19) a **second time** around the roller tube and insert under the first winding of the drive belt in the roller tube groove (27).

5. ... the awning does not retract/extend or the motor limit switch is wrongly adjusted?

Possibility A

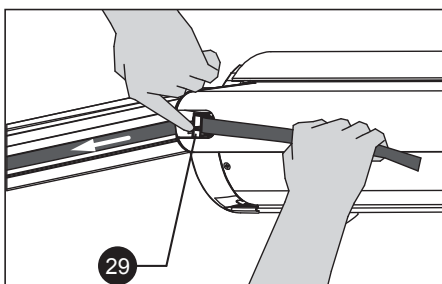
Check the awning controls and the sun/wind and rain mechanisms and readjust if necessary.

Possibility B

Readjust the motor end positions. See brief instructions for the "Becker" standard motor in Chapter 19.

6. ... the awning stops approx. 10 - 15 cm prior to entry position?

Possibility A: Clamping module overtightened



⚠ Attention!

Hold the belt tightly on the loose end; the system is under tension!

Extend awning approx. 30 cm. By pressing the belt clamp (29) alternately on the right and left side, release the tension on the clamping module by letting more belt run through. Release the tension on each belt bit by bit and check progress by retracting the awning again slowly until it closes again.

Possibility B: The belt has no additional winding on the roller tube

Carefully extend the awning by 30 cm.

Relieve the tension on the cloth as described in Chapter 2 (right and left).

By pressing the belt clamps on the right and left-hand sides (29), the drive belts can be pulled approx. 30 cm in the direction of the guide rails.

Remove the drive belts from the roller tube. Retract the awning.

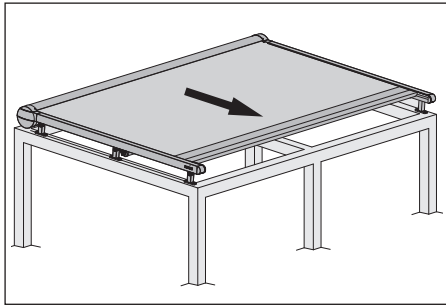
Now proceed as in Chapter 4.!

www.markilux.com

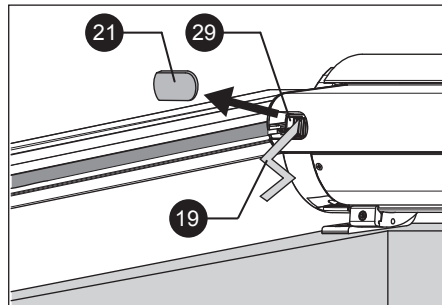
7. ... the projection profile stops prior to reaching the end stop point??

Different cover thickness leads to different winding behaviour, which can influence the gas piston and lead to the projection profile stopping prior to reaching the end stop point.

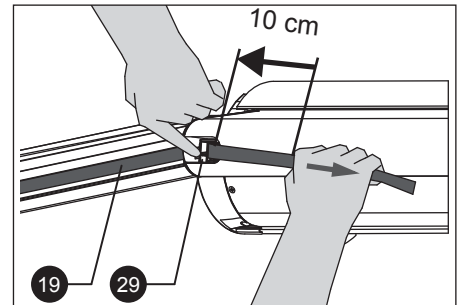
In this case extra drive belt has to be allocated both **right and left**.



1. Extend the awning as far as possible.

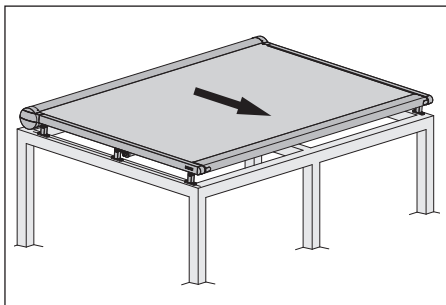


2. Remove the cap closure (21) and remove the drive belt (19) from the projection profile (right and left).

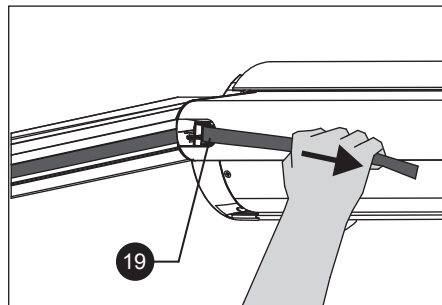


3. Hold the drive belt (19) tight with one hand, thus securing it.

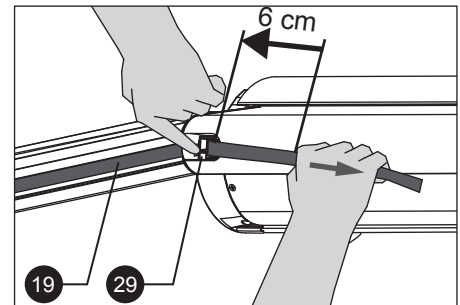
⚠ Attention! Hold the loose end of the belt tightly as the system is under tension! Press the belt clamp (29) and the drive belt (19) and release the tension by approx. 10 cm. Let go of the belt clamp (29) (right and left)



4. Extend the awning completely.



5. Pull the drive belt (19) on the projection profile until it cannot be pulled any further.



6. Now pull the drive belt (19) tight again with one hand, and keep it in this position, thus securing it. Press the belt clamp (29) with your other hand and relieve the tension on the drive belt (19) for about 6 cm. Release the belt clamp (29).

Check retraction and extension of the system.

7. If the projection profile does not close properly or if the awning is not tensioned uniformly, continue with Chapter 9 or Chapter 4 (Point 5).

NOTE: During the initial retraction and extension of systems with a projection exceeding 5 m, a tighter winding of the cover onto the roller tube might occur. This may lead to a decrease in cloth tension or to a lower clamping module tension. See Chapter 9.

8. ...the awning has no tension in the middle position?

Possibility A

The drive belt has been partially released from the belt clamp (29).



- Release the tension on the clamping module as described in Chapter 2.
- Then correct as described in Chapter 3.

Possibility B

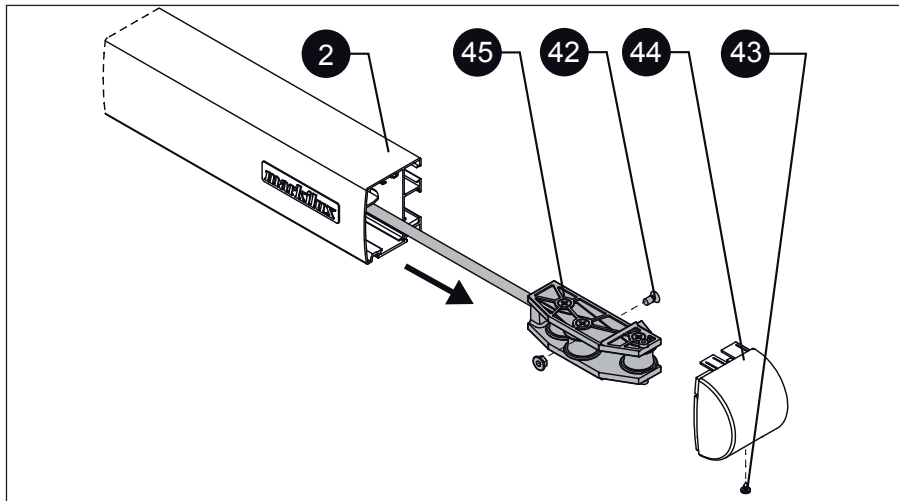
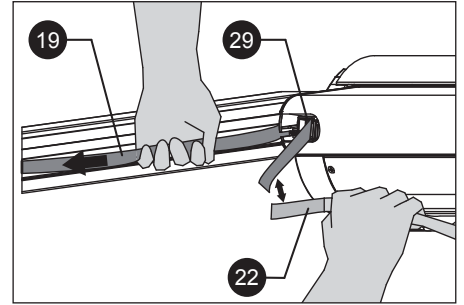
The drive belt has released itself completely from the belt clamp (29).



Please refer to chapter 11.

Possibility C

Clamping module defective – request replacement element, stating the serial number.



1. Retract the connected Velcro fastener (22) with the drive belt (19) through the belt clamp (29) of the projection profile.

2. Remove the guide rail cover (44) by loosening the fillister head self-tapping screw (43) and removing the clamping module (38) from the guide rail (2). To do this, unscrew the countersunk screw M 5 (42) at the side of the holder for the gas pressure spring (45).

3. Retract the available drive belt (19) back into the guide rail again and thread into the clamping module. Ensure central position and no twisting of the drive belts (19) on the deflection rollers.

4. Install a new clamping module into the guide rail.

5. Retract the drive belt back into the drive belt clamp and clamp the awning (see Chapter 3., from Point 3.)

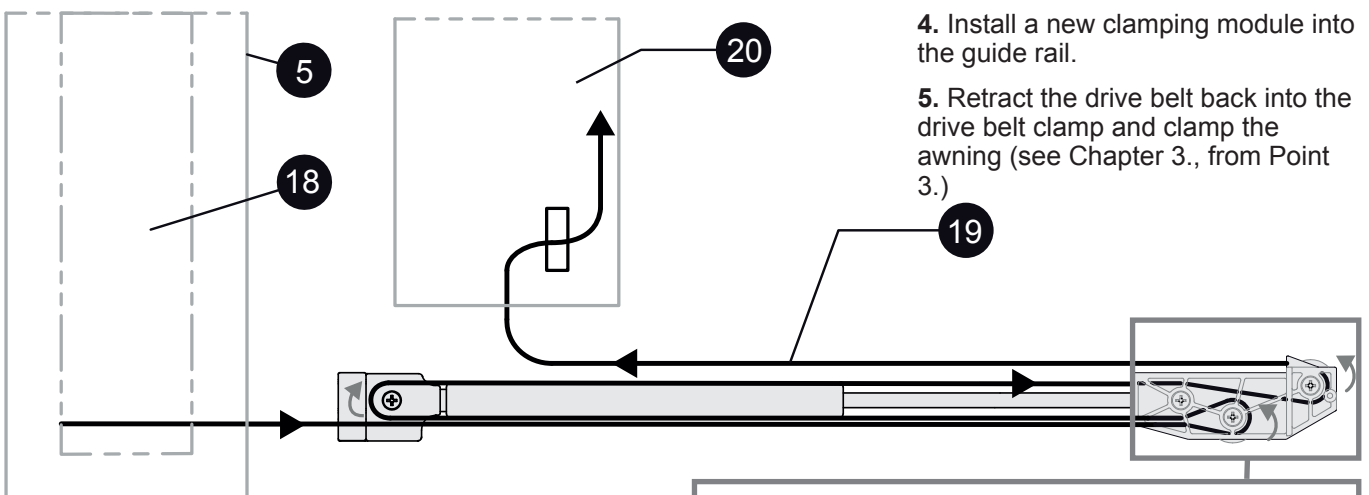
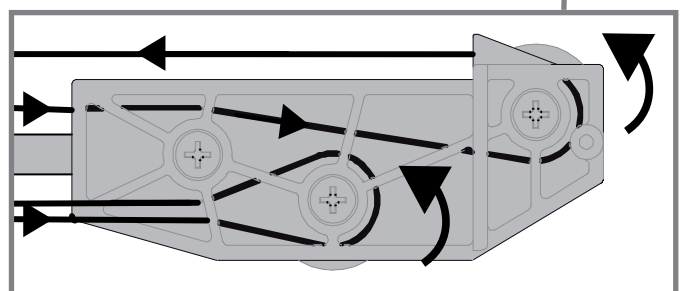
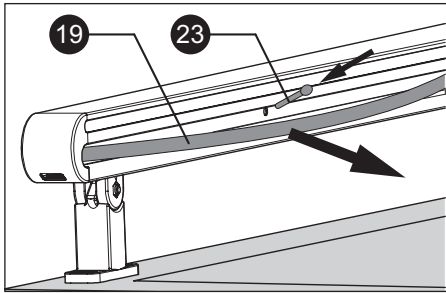


Fig.: Drive belt progression with clamping module, right and left



9. ... the awning has no tension in the middle position?



Retract awning.

By pulling the drive belt (19) in the guide rail (2) towards the centre, bring the hole in the clamping module into line with that of the guide rail (right and left). Then insert the safety splint (23) (right and left). The drive belts (19) are now no longer under tension and the clamping module is held securely in position. Now tighten the drive belts (19) as described in Chapter 2 and tension the awning again.

10. ... the awning runs unevenly?

Possibility A

Are the guide rails mounted straight? Are the guide rails perpendicular to the cassette? Are the cassette and guide rails positioned at right angles to each other?

Align the awning at the mounting brackets so that smooth running of the projection profile in the guide rails is guaranteed.

Possibility B

Are the guide rails dirty (leaves etc.)?

Clean the inside guide rails and polish if necessary, see also care and maintenance in the operating instructions.

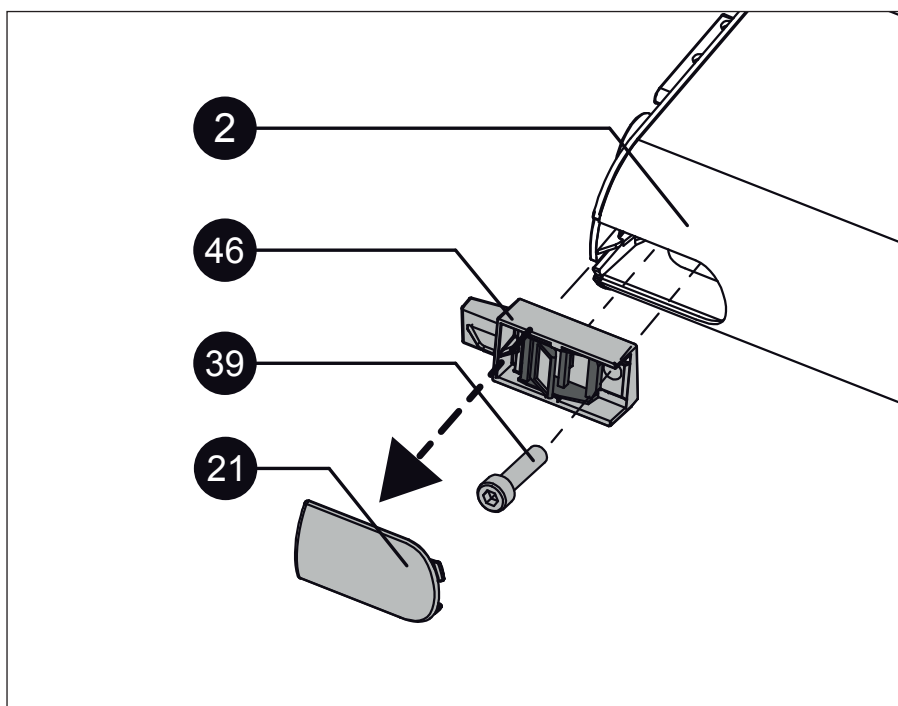
Possibility C

Are the gas pressure springs evenly prestressed?

If not, proceed as in Chapter 8. Possibility A.

11. ... the Velcro fastener / drive belt has been pulled out of the belt clamp in the projection profile?

The awning is still in delivery condition and the cloth is not under tension.



1. Remove the cap closure (21).
2. Remove the belt clamp with the belt clamp holder (46). To do this, loosen the socket head cap screw with hexagon socket, key width 6 (39).
3. Grip the drive belt and the Velcro fastener and carefully thread it through the projection profile (2) and through the dismantled belt clamp holder (46).

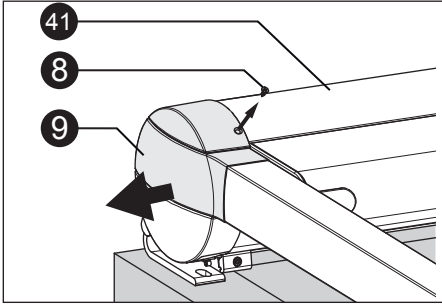
Note: Should the Velcro fastener be damaged or torn off, then thread the end of the drive belt (without the Velcro fastener) directly through the belt clamp holder (46). If necessary, the Velcro fastener can also be retightened with staples.

4. Mount the belt clamp holder (46) back into the projection profile (2) and apply the cap closure.

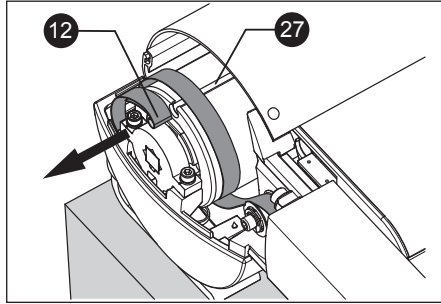
www.markilux.com

12. ... the awning cloth has to be replaced?

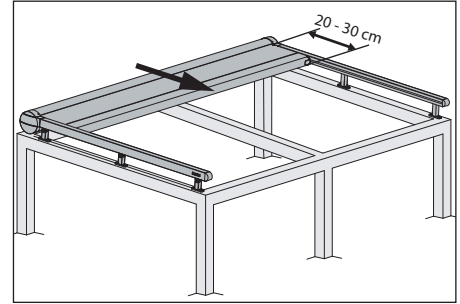
Order the cloth, stating the serial number.



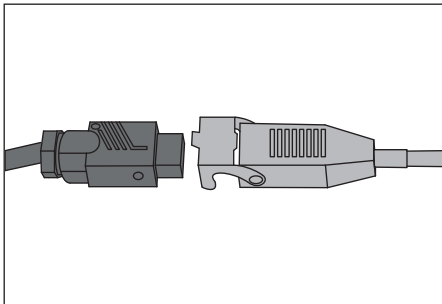
1. Remove the inspection cap (9), and release the tension on the cloth (see Chapter 2.)



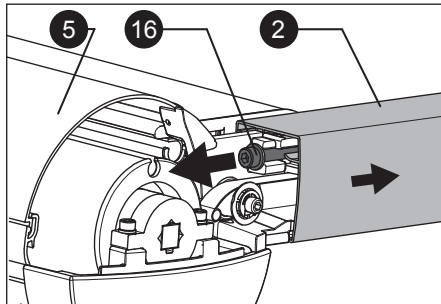
2. Remove the drive belt clamping loop (12) from the roller tube groove (27).



3. Extend the awning by approx. 20 - 30 cm.



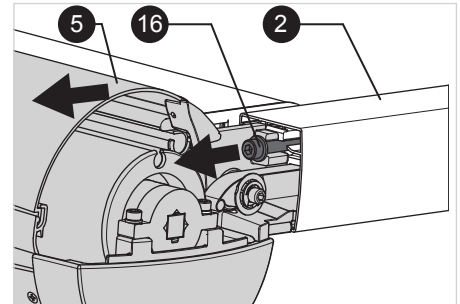
4. Disconnect the motor mains connection via the plug coupling in order to prevent extension or retraction of the system whilst the work is being conducted.



A: In case of cassette floor and wall assembly

5. Remove the guide rails (2) on both sides. To do this, unscrew the socket head cap screws, key width 6 (16) from the rail by 15 mm, and loosen it by lightly tapping the connection on the screw head!

Remove the guide rail (2) so that the projection profile lies exposed at the side.

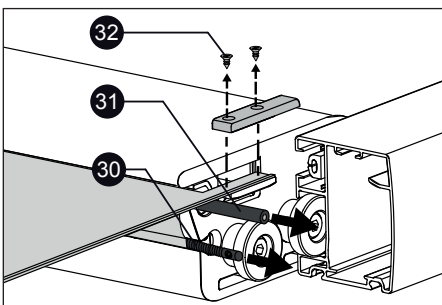


B: For cassette frame assembly

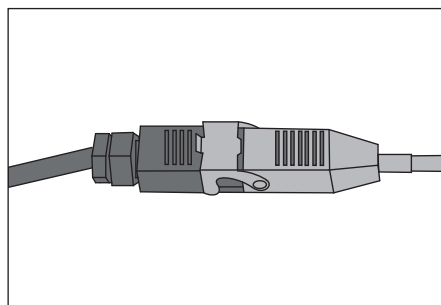
5. Loosen the cassette housing (2) on both sides. To do this, unscrew the socket head cap screw, key width 6 (16) from the rail by 15 mm and loosen the connection by lightly tapping on the screw head!

Remove the cassette (2) so that the projection profile is exposed at the side.

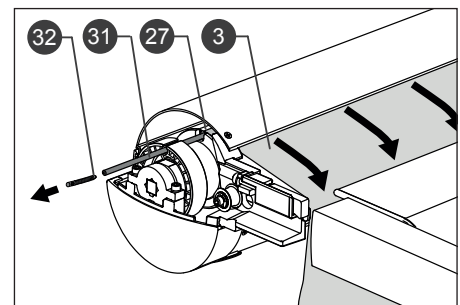
NOTE: To make the work easier, the roller tube and the projection profile can also be removed and the cloth changed by resting it on trestles.



6. Remove the cloth dowelling pins (30) and the piping (31) from the projection profile groove.



7. Reconnect the motor power connection.



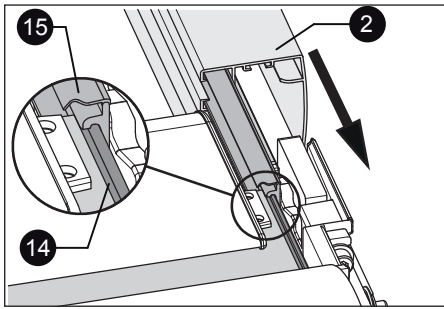
8. Activate the motor via the adjustment set (for standard motor, see also Chapter 19) and extend the awning until the cloth (3) is completely unwound from the tube. Pull out the cloth dowelling pins (32) and the piping (31) via the roller tube groove (27).

Clean the roller tube, cassette and projection profile after inserting a new cloth!

⚠ Attention!

In case of **awnings with tracfix system**, first release the additional screws (32) of the tracfix terminal on the carriage.

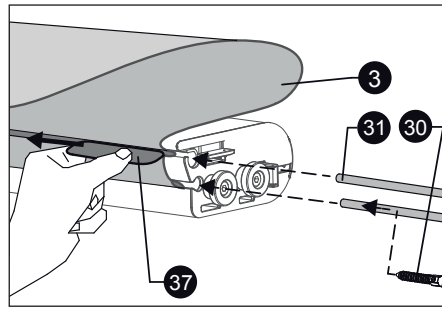
www.markilux.com



8. Apply the new cloth.

⚠ Attention! In case of **awnings with tracfix system**, the cloth must be threaded into the plastic rail (15) with the "zipper" (14) for the tracfix system to function.

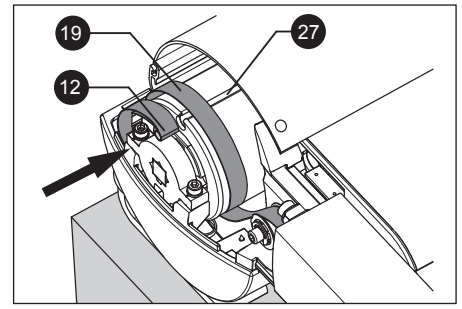
Then fix the cloth with the tracfix terminal and the screws (32), see Point 6., with a front projection of 2mm on both sides back onto the carriage, see Point 6. Then mount the guide rail (2) onto the side cover.



9. Insert the cloth (3) into the **lower piping groove** of the projection profile, and thread in the piping (31).

Carefully lay the cloth over the projection profile. With a rounded, thin sheet metal plate (37), prefold the cloth into the **upper piping run** and then draw in the upper piping.

Only fix the **lower piping**, and therefore also the cloth with the **cloth dowelling pins** (30) at the right and left-hand sides again.



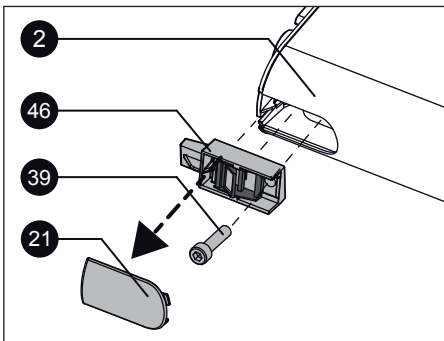
10. Insert the clamping loops (12) of the drive belts (19) with the awning retracted back into the roller tube (18) (see Chapter 4).

Then tension the awning cloth as described in Chapter 3. Point 4.

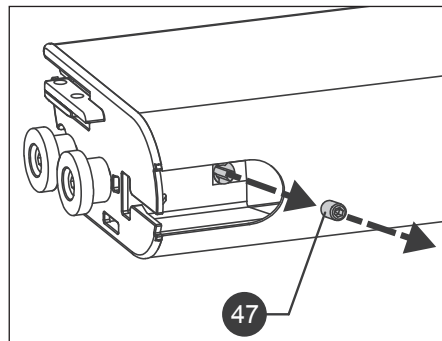
11. Reprogram the end positions of the motor with the adjustment set (in case of "Becker" standard motor), see Chapter 18.

13. ... the projection profile cap (with carriage) has to be replaced?

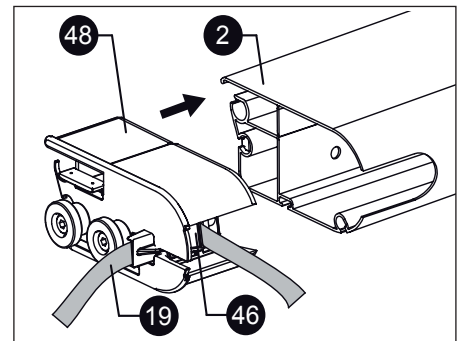
1. Expose the respective carriage at the protection profile cap so that it can be accessed, see also Chapter 12 Point 1. to 5. In case of tracfix systems, first loosen the tracfix terminal screws as described in Chapter 12 Point 6.



2. Remove the cap closure (21) on the respective belt clamp of the projection profile (2). Deinstall the belt clamp with the belt clamp holder (46). To do this, loosen the socket head cap screw with the hexagon socket, key width 9 (39). Remove the drive belt from the carriage.

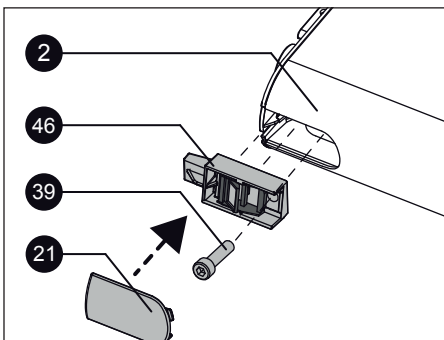


3. Behind the previously-loosened socket head cap screw (39) there is a threaded pin M 5 (47). Loosen the threaded pin.



4. Remove the old carriage. Thread the drive belt (19) through the new carriage (48) and the drive belt holder (46). Tighten the threaded screw M 5 (47), see Point 3.

Insert the new carriage (48) into the projection profile (2).

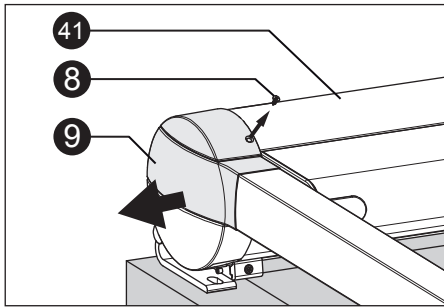


5. Fasten the belt clamp holder (46) again with the socket head cap screw with hexagon socket, key width 6 (39). Reapply the cap closure (21).

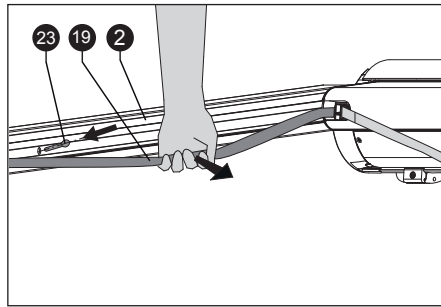
14. ... the motor has to be replaced?

Prior to this, order a replacement motor, stating the awning serial number.

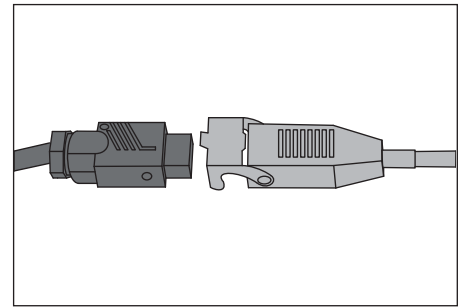
In case of a retracted, partially or completely extended awning:



1. Remove the inspection cap (9), see Chapter 1.



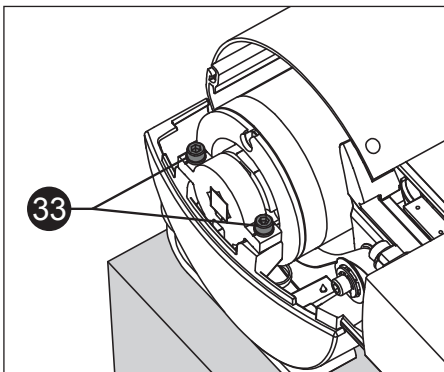
2. Release the tension on the cloth, see Chapter 2.



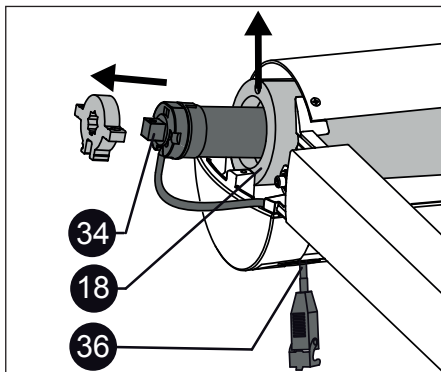
3. Disconnect the motor mains connection via the plug coupling.

⚠ Attention!

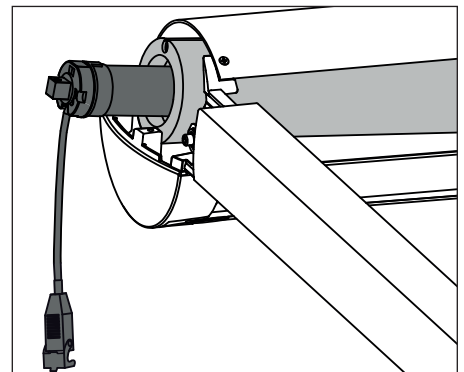
Secure the projection profile against uncontrolled extension during the deinstallation of the motor.



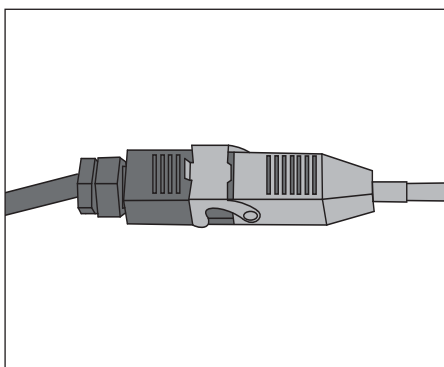
4. Loosen the locking bolts, key width 5 (33) on the motor side.



5. Loosen the motor cable safeguard. To do this, unscrew the plastic screw for the motor cable (36) lying inside the cassette. Lift the roller tube (18) until the motor (34) can be pulled out of the tube.



6. Replace the motor. After installation of the new motor, secure the motor cable again using the previously-unscrewed inside plastic screw (36).



7. Put the system back into operation and program the positioning of the end positions with the adjustment set, see Chapter 18 (standard motor without radio).

15. ... the drive belt has to be replaced?

Prior to this, order a new drive belt including the Velcro fastener, stating the serial number.

Possibility A: The drive belt is torn

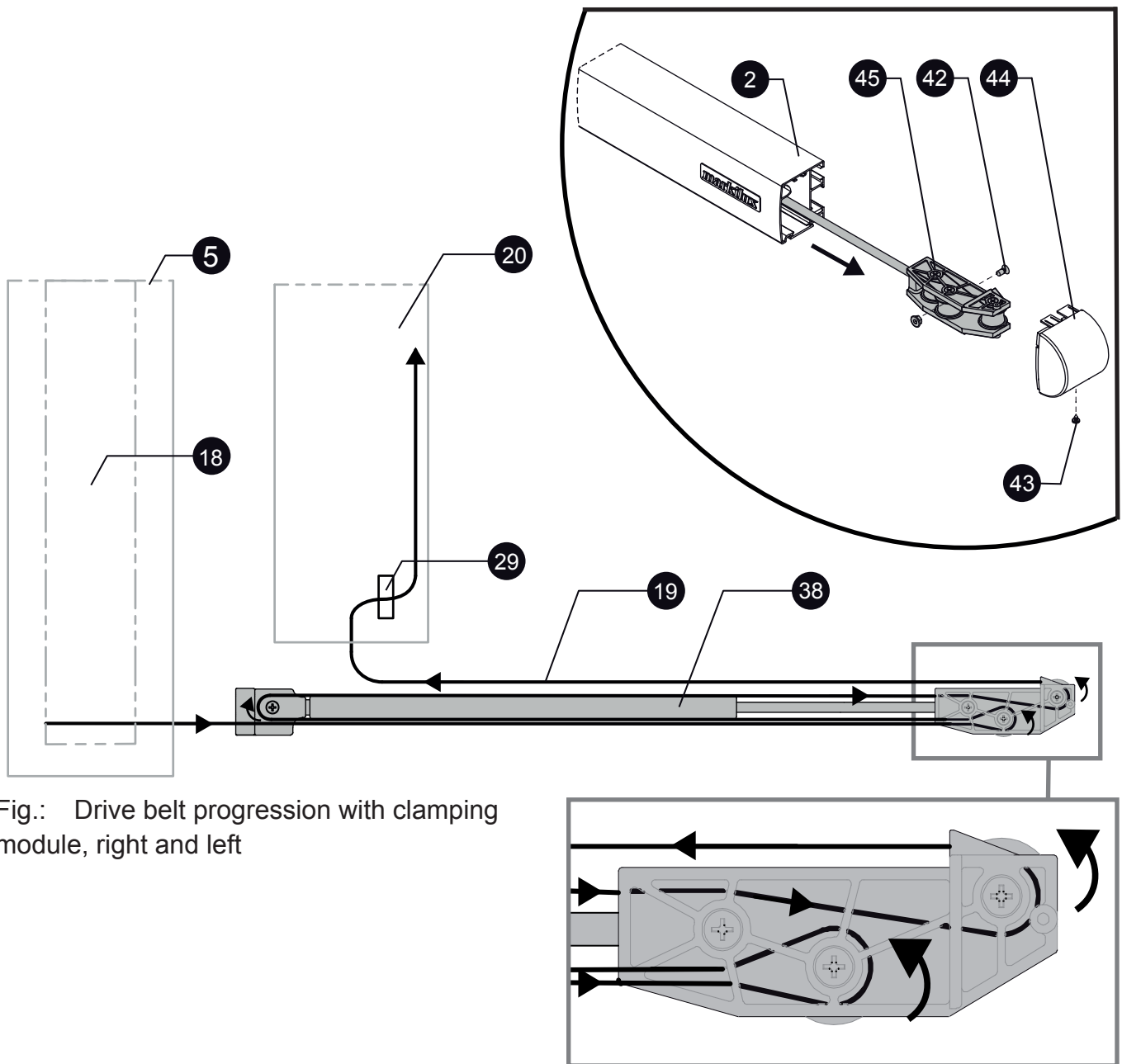


Fig.: Drive belt progression with clamping module, right and left

1. If the drive belt is torn, the appropriate clamping module is relieved of tension. The second drive belt must then also be relieved of tension according to Chapter 2. Possibility B, by pressing the belt clamp.
2. On the side where the drive belt has to be replaced:
Remove the guide rail cover (44) by loosening the fillister head self-tapping screw (43) and removing the clamping module (38) from the guide rail (2). To do this, unscrew the countersunk screw M 5 (42) at the side of the holder for the gas pressure spring (45).
3. Remove the old drive belt (19).
4. Thread the new drive belt (19) onto the clamping module and then into the guide rail (38). Ensure central position and correct running of the drive belts (19) on the deflection rollers.
5. Reinstall the belt clamp (29) after pulling through the drive belt (19) (see Chapter 11).
6. Fasten the drive belt clamping loop onto the roller tube, see Chapter 4.
7. Reclamp the awning, see also Chapter 3, from Point 3.

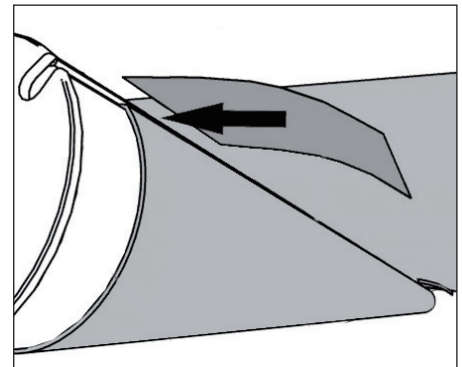
Possibility B: The drive belt is torn slightly

1. Release the tension on the cloth, see Chapter 2.
2. Unthread and cut off the drive belt clamping loop (12) (see Figure under Chapter 4, Point 5) from the roller tube groove.
3. Fasten the fleece band of the new drive belt, for example using staples, onto the old drive belt at the cut-off point. Now, with the aid of the damaged drive belt, pull the new drive belt through the belt clamp. See Chapter 11 and also the drive belt progression Chapter 15.
4. Remove the staples and the damaged drive belt.
5. Tension the awning. See Chapter 3.

16. ... the projection profile does not retract completely on one side?

(compensation possible through fabric support)

1. Delete positioning of the lower end position using the adjustment set for the "Becker" standard motor, see Chapter 18.
2. Extend the awning until the cloth sags visibly.
3. At the awning side, which does not retract completely, push fabric strips (approx. 20 x 20 cm) between the cloth and the roller tube so that it cannot fall out again.
4. Retract the awning and check the position of the projection profile.
5. By supporting with smaller or larger wads of fabric, the retraction adjustment can be adapted.
6. Position the lower end positions with the adjustment set for the "Becker" standard motor, see Chapter 18.



17. ... maintenance has to be carried out?

In order to prevent malfunctions or to detect any damage early on, the product must be regularly serviced (at least once per year).

1. Check the product regularly for signs of wear, damage to the motor line and for stability (e.g. screws for tight fit)!
2. The required spare parts or wear parts should be ordered in advance, stating the serial number.
2. Check the cassette, guide rails and guide rail end caps for dirt, smaller branches, leaves, pine needles etc. and clean if necessary.
3. Carry out a visual inspection and check on the holder fastening, the cloth, the drive belts and a functional inspection of the motor limit switching.
4. Carry out a function check on the belt deflection rollers for smooth running and clean if necessary.
5. Replace damaged drive belts.
6. If the cloth is too loose during the running phases, retighten the belts in retracted condition.
7. If the connection of the projection profile is not parallel, adjust through the insertion of fabric wads on the roller tube, see Chapter 16.
8. In case of systems with radio remote control, the battery must be replaced.

18. Motor overview

markilux 8800

single unit	With radio (433 MHz)	Somfy Orea 35/17 RTS	optionally
	with radio IO technology (868 - 870 MHz)	Somfy sunea 50 IO	optionally
	wired	Becker R 40/17 C SE K2	without tracfix
	Without radio (silenteC)	Becker markilux AB	optionally
Coupled unit	wireless (433 MHz)	Somfy Orea 55/17 RTS	optionally
	with radio IO technology (868 - 870 MHz)	Somfy sunea 60 IO	optionally
	wired	Becker L 60/11 C SE K2	without tracfix

markilux pergola 110 / 210

single unit	mit Funk (433 MHz)	Somfy Orea 35/17 RTS	optionally
	wired	Becker R 40/17 C SE K2	without tracfix
	Without radio (silenteC)	Becker markilux AB	optionally
Coupled unit	wireless (433 MHz)	Somfy Orea 55/17 RTS	optionally
	wired	Becker L 60/11 C SE K2	without tracfix

markilux pavilion

single unit	With radio (433 MHz)	Somfy Orea 55/17 RTS	optionally
--------------------	----------------------	----------------------	------------

Observe the installation and adjustment instructions. These are attached to the motor cable in case of new deliveries, or included with the awning. In case of radio motors, a note on the adjustment of the motor at the awning is included with new deliveries.

Adjustment instructions for radio motors with 433 MHz technology

For radio motors, markilux provides the additional booklet "Adjustment instruction for radio motors with 433 MHz technology". This booklet describes in simple words the adjustment of markilux awnings via radio, and any problems which may occur.

Order no.	German:	7061444
	English:	7061446
	French:	7061445
	Spanish:	As pdf file

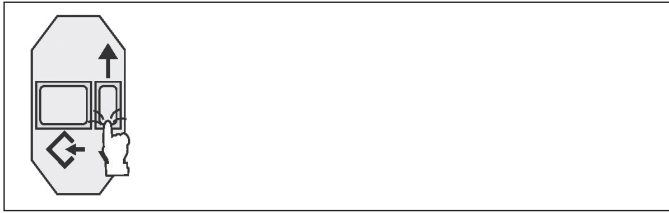
Motor data

	single unit	coupled units
Torque [Nm]	40	60
Speed [rpm]	17	11
Voltage [V]	230	230
Frequency [Hz]	50	50
Current consumption [A]	1.2	1.15
Motor power [W]	246	260
Duty cycle [min]	4	4
Limit switch range [U]	64	64

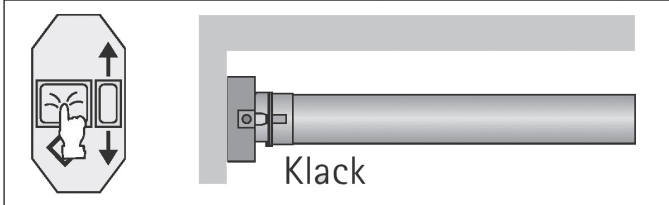
19. Brief instructions for "Becker" drive with electronic limit switching

(standard motor without radio)

A Adjustment of new end positions



1. Approach the required extension end position on the adjustment set.



2. Press the rest/programming button on the adjustment set. The acknowledgement was successful if the tube drive emits one clicking sound.

If the clicking sound is heard twice, an existing end position has been deleted! Then it is necessary to press again until the tube drive emits one clicking sound.



3. Then RETRACT until you reach the top, permanent, existing end stop.

The tube drive will switch off automatically. The end positions are adjusted.

B Deletion of end positions:



1. Move the awning between the end positions!



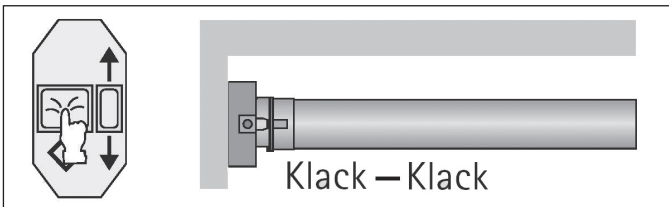
2. Press the reset/programming button and keep it pressed.



3. Then press down the travel button and keep it pressed.



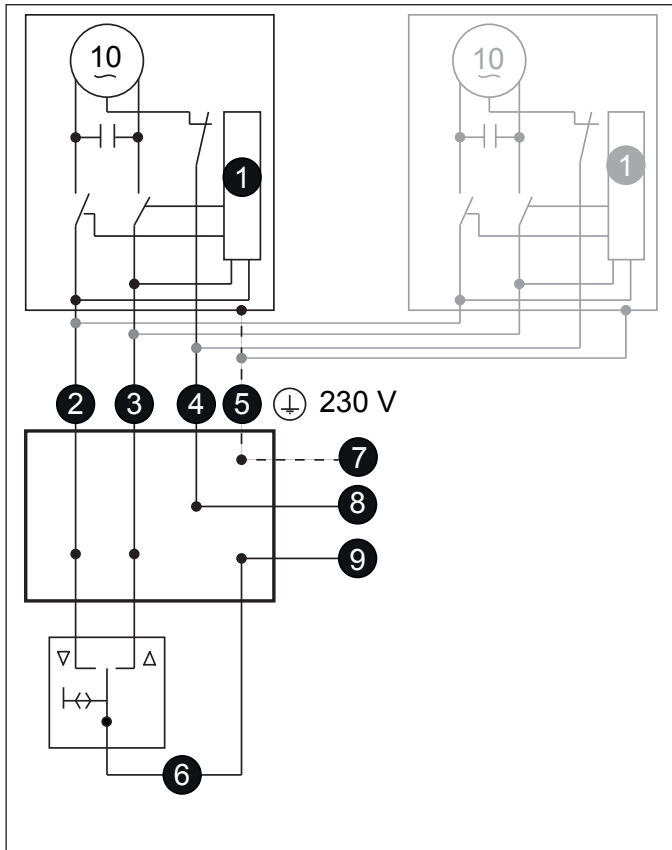
4. Now release the reset/programming button and continue to keep the travel button pressed.



5. In addition, press the reset/programming button again. The tube drive will make a "click-click" sound in acknowledgement.

The end positions are now deleted.

C Plug-in coupling wiring diagram "Hirschmann" for "Becker" standard motor without radio.



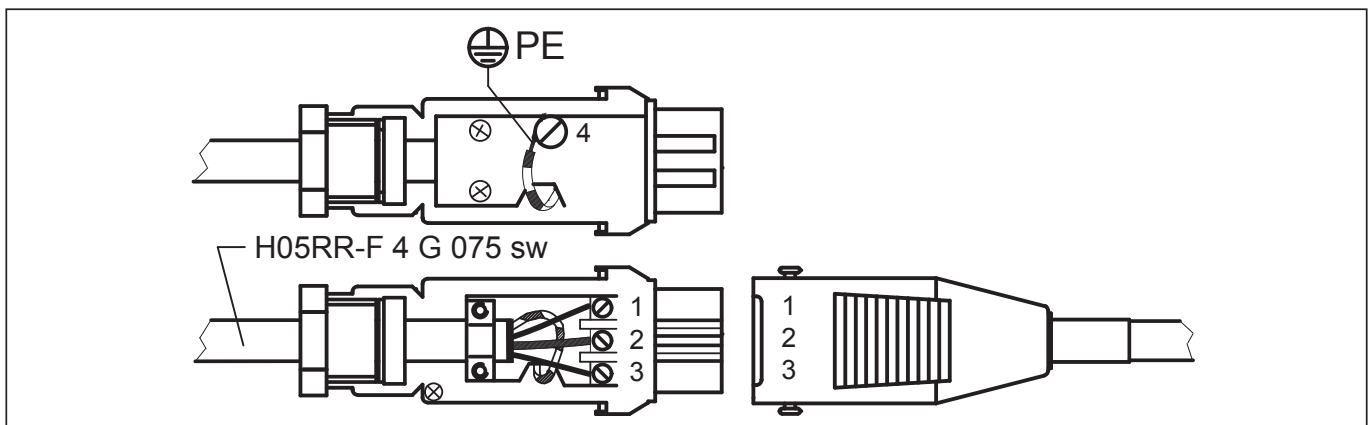
Becker drives with electronic limit switching can be switched in parallel.

Observe the permitted maximum current carrying capacity of the switching element.

Only qualified specialists may carry out work on the electrical system. Electrical installations must comply with the valid standards and regulations. During installation, an all-pole disconnection possibility from the mains with at least 3 mm contact opening width per pole must be created (DIN EN 60335). Only use switching elements with mechanical or electrical locking which guarantee that the motor is switched voltage-free for at least 0.5 seconds when the motor changes direction directly.

1	Electronics
2	black
3	brown
4	blue
5	green-yellow
6	Adjustment set
7	Protective conductor (green-yellow)
8	N (Neutral conductor, blue)
9	L1 (Phase, brown or black)
10	motor

Plug-in coupling for "Becker" standard motor, connection line 4 x 1.5 mm²



1	Neutral (blue)
2	High/low command (black)
3	High/low command (brown)
4	PE = Protective conductor PE (green-yellow)

D What to do if the end positions on a Becker standard drive cannot be adjusted as described?

Overview of different adjustment sets for the "Becker" standard motor

Awning extension



Awning retraction



Reset / programming button



FAULT Standard motor	CAUSE	REMEDY
Tube drive exceeds the end position or does not reach the set end position.	1. Electrical connection has short-circuited due to humidity.	Repair electrical connection and reset the end positions.
	2. External consumers are switched in the connection lines of the tube drive.	Check the electrical installation, remove external consumers, reset end positions.
	3. L1 and N connections swapped due to long line length.	Swap L1 and N (N = bl, L1 = SW/ bn), reset end positions
	4. Stops have been torn off or one or more suspensions have been broken.	Repair system; reset tube drive, then reset end positions.
Tube drive does not run in the specified direction.	1. Tube drive is overheated.	After several minutes, the tube drive is ready for operation again.
	2. Tube drive defective (does not run, even after a longer downtime).	Replace tube drive; conduct RESET with programming button. Here you will not hear a "click" (emergency program), the tube drive can be raised and lowered for deinstallation using the adjustment set.
	3. Tube drive has switched itself off during the last run in the same direction due to an obstruction.	Disentangle obstruction and remove.
	4. Faulty electrical connection.	Check electrical connection.
Tube drive only runs for approx. 5 seconds.	Tube drive is in error mode.	Reset end positions, or replace tube drive.
Tube drive switches off automatically prior to programming of the required 1st end position (extension end position).	Tube drive has detected a torque increase.	<ol style="list-style-type: none"> 1. Clear and overrun this position. 2. Press the reset/programming button at this position.

20. Important general guidelines for the "What to do if ...?"

This "What to do if ...?" does not replace the enclosed markilux original instructions and the associated documents for the motors and controls. It is merely intended to promote understanding of the product functionality.

The instructions contained in the original instructions must be adhered to and observed.