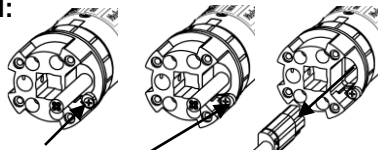


instructions for assembly

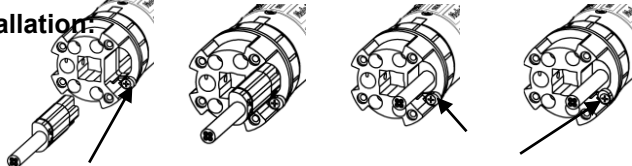
If necessary, the motor cable can be disconnected and replaced with a new one.

Removal:

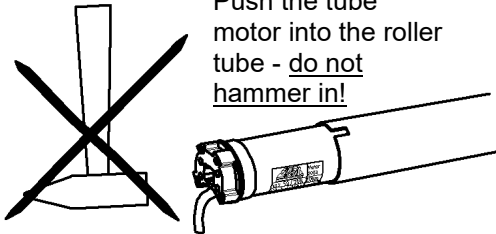


Loosen the clamping screw slightly, twist the eccentric disk to the right and pull out the cable.

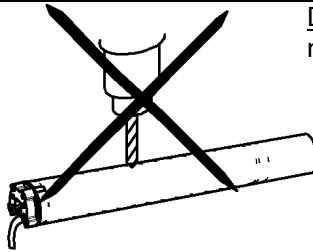
Installation:



The eccentric disk must be turned to the right, insert the plug to the stop, turn the eccentric disk to the left and tighten the clamping screw.



Push the tube motor into the roller tube - do not hammer in!



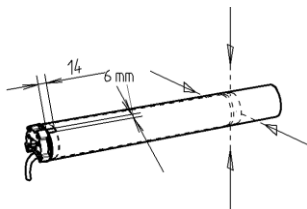
Do not drill in the area of the tubular motor!

Screws or rivets must not touch the tube motor!

● ● ● **At this point a good advice:**

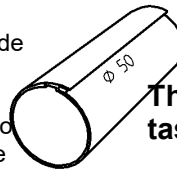
Please note when using round tubes

Use the SIRAL quick mounting tubes for mini roller shutters **!!**



not applicable with SIRAL - quick mounting tubes

Saw out a notch at the drive side of the tube for the adapter. Mark the position of the drive wheel. Push the tube motor into the tube so that the nose of the adapter carrier fits into the notch. Attach the drive wheel with 4 screws or rivets.



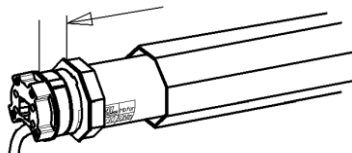
This eliminates all the above tasks and precautions:

no riveting, screwing, drilling, notching.

Just push the motor into the tube, clip in springs - done!

● ● ●

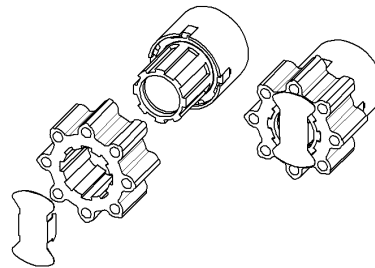
Attaching the adapter



Important:

The adapter must be pushed till the stop on the adapter carrier.

Attaching the carrier wheel



Use carrier wheel **without ABS**

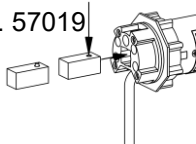
Attach the carrier wheel without ABS to the gear bung, then insert the clamp.

Motor bearing:

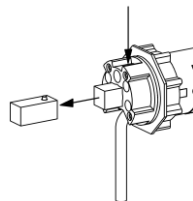
To insert the square:

Push the spring bolt and push the square into the hole so that the locking hole points in the same direction as the spring pin. The spring bolt jumps into the locking hole and locks the square.

square
No. 57019

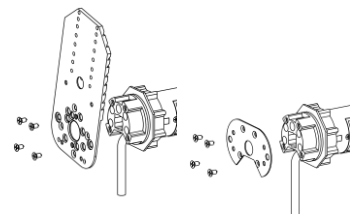


With the square inserted, all square bearings (14x14mm) can be used.



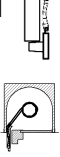
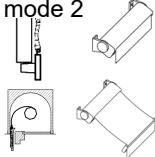
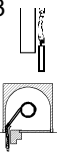
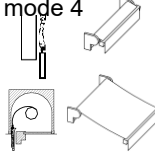
To remove the square, the locking bolt has to be pushed back with a tack and the square is pulled out.

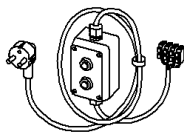
Attach the motor bearing to the motor head with **screwed bearings**: for front mounted elements or connection bracket mini with supplied screws Spax Seko 4*16 (or DIN 7982 3.9*9.5)



setting of the end position

The motor has got 4 different modes, the selection is made automatically by the setting.

<p>mode 1</p>  <p>Fixed stop TOP Fixed stop BOTTOM</p>	<p>An automatic adjustment takes place independently of both points of stop.</p>	<p>mode 2</p>  <p>Fixed stop TOP Set endpoint BOTTOM</p>	<p>Automatic adjustment takes place from the upper point of stop. In the case of awnings, the length of the fabric is balanced.</p>
<p>mode 3</p>  <p>Set endpoint TOP Fixed stop BOTTOM</p>	<p>The lower point of stop is automatically adjusted, the upper point stays fix.</p>	<p>mode 4</p>  <p>Set endpoint TOP Set endpoint BOTTOM</p>	<p>An automatic adjustment does not take place. Both end points stay fix.</p>



The motor is delivered in learning mode, continue directly with adjustment.

Only if needed, bring into learning mode.

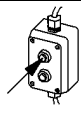
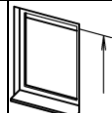



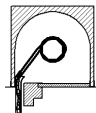
If a malfunction occurs during the setting, or if an already setted motor is to be installed somewhere else, or if modifications have been made to the roller shutter or the awning, the motor can be put into the setting mode, see page 3 below.

Therefor and for setting the end points of mode 2, 3 or 4 a special tester cable (No.58008E) is required, press TOP and BOTTOM at the same time.

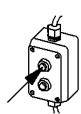
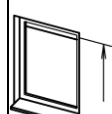

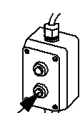

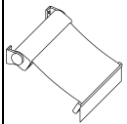
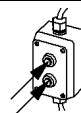
Important!

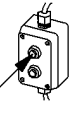
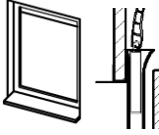
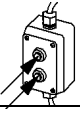


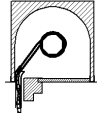
- Note the sequence, the upper end point must always be learned first and then the lower end point.
- The setting process must **never** be started or continued immediately before a fixed stop, but at least 1/4 tube rotation before, this minimum distance is required for force adjustment.

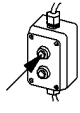

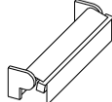
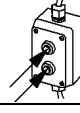


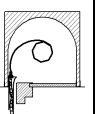
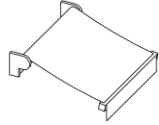

Setting mode 1 (Fixed stop TOP and BOTTOM) automatic setting

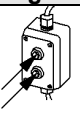
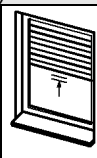
1.1	 <p>Press the up button</p>	until	 	the upper end point is reached and the motor switches off, press the button after switching off at least 1 sec. longer.
In case of a malfunction, the drive switches off (too fast increase of force) before reaching the end point, it must be returned to the learning mode.				
1.2	 <p>Press the down button</p>	until	 	the lower end point is reached and the drive switches off, press the button after switching off at least 1 sec. longer.
Learning of the forces takes place automatically during a continuous run from one end point to another				

Setting mode 2 (Fixed stop TOP, setted end point BOTTOM)

2.1	 <p>Press the up button</p>	until	 	the upper end point is reached and the motor switches off, press the button after switching off at least 1 sec. longer.
2.2	 <p>Press the down button until the desired end stop is reached.</p>	<p>roller shutters</p> 	<p>awnings</p> 	<p>springs lie flat on the outside, spring has no pressure yet.</p> <p>fabric must not hang through, it must be stretched</p>
Returning or driving in short pulses is possible.				
2.3	 <p>Press both buttons for about 2 sec. at the same time to set the end point BOTTOM. As an confirmation a double clack occurs.</p>	The end point won't be set, if the buttons are pressed too short.		
Learning of the forces takes place automatically during a continuous run from one end point to another				

Setting mode 3 (setted end point TOP, fixed stop BOTTOM)					
3.1		Press the up button	until		the upper end point is reached. The roller shutter end rod has to stay safe in the guide rail, so it does not leave it in case of changing of the rolling of the roller shutter.
Returning or driving in short pulses is possible.					
3.2		Press both buttons for about 2 sec. at the same time to set the end point TOP. As an confirmation a double clack occurs.			The end point won't be set, if the buttons are pressed too short.
3.3		Press the down button	until	 	the lower end point is reached and the motor switches off, press the button after switching off at least 1 sec. longer.
Learning of the forces takes place automatically during a continuous run from one end point to another					

Setting mode 4 (setted end point TOP and BOTTOM)						
4.1		Press the up button	until	 roller shutters	the upper end point is reached. The roller shutter end rod has to stay safe in the guide rail, so it does not leave it in case of changing of the rolling of the roller shutter.	For awnings  fabric must be rolled up, the bar must not hit
Returning or driving in short pulses is possible.						
4.2		Press both buttons for about 2 sec. at the same time to set the end point TOP. As an confirmation a double clack occurs.			The end point won't be set, if the buttons are pressed too short.	
4.3		Press the down button	until	  roller shutters	springs lie flat on the outside, spring has no pressure yet.	awnings  fabric must not hang through, it must be stretched
Returning or driving in short pulses is possible.						
4.4		Press both buttons for about 2 sec. at the same time to set the end point BOTTOM. As an confirmation a double clack occurs.			The end point won't be set, if the buttons are pressed too short.	
Learning of the forces takes place automatically during a continuous run from one end point to another						

Not required in state of delivery, only if required! To bring the motor into learning mode: (all set end points are deleted)					
		Press both buttons for minimum 6 sec at the same time	until		the motor confirms with a short clack. If a double clack occurs after 1 sec., it must be ignored. The motor is already in learning mode.

Important! If a malfunction occurs during the setting or if electricity turns off or the overheat protection turns on, the setting of the endpoints has to be made again.

In case of an interruption in direction TOP or BOTTOM a new start in the same direction is not possible. The motor has to be released in the opposite direction first.

General note:

The motor is protected with an overheat protection. If the motor turns off due to overheating, it can be reactivated only after an common cooling time.