

Manual
Absolute roller blind

coulisse

Update information:

Version 20-05-2009 : First release

Version 29-09-2009 : Calculations and max. system weights changed

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coulisse

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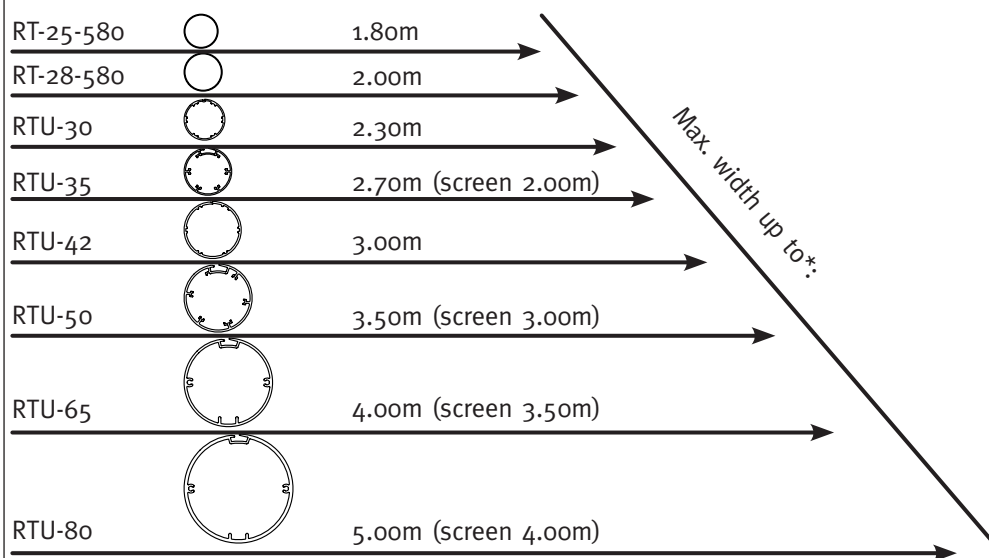
1. General Information

1.1 Program overview

Unique Selling Points:

- A complete concept for roller blinds
 - Complete range of eight tube diameters ranging from 25 up to 80 mm and can be used entirely modularly.
 - The design brackets for use with motor and mechanism
 - An optional design cover creates the finishing touch.
 - With the optional side guidance the roller blind fabric is perfectly stabilised.
 - Furthermore this system is prepared for use with screen fabrics.
 - Absolute Roller Blind can easily be motorized with Absolute Control
 - Unique adjustable connecting plug. This way multiple systems can be operated with one single motor.
- The bottom rails of the roller blinds can easily be aligned after installation.

Tube range:

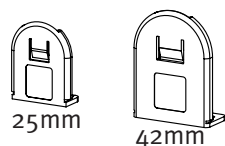


*For details of max. system dimensions and weights see chapter 1.3

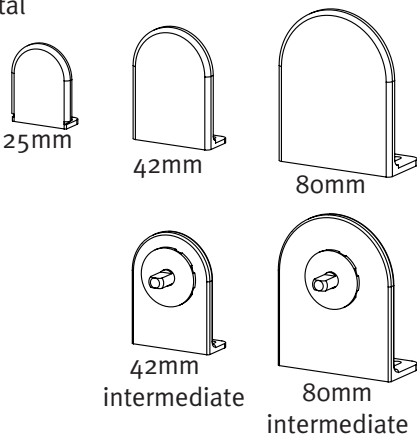
1.1A

Bracket range:

Plastic

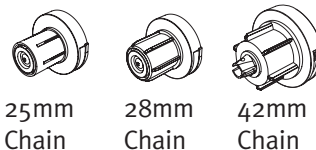


Metal

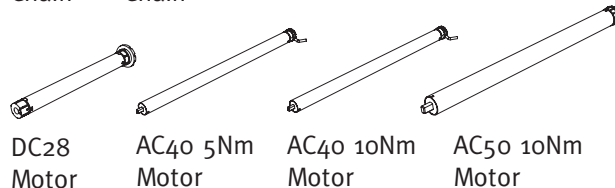
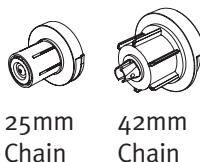


Control options:

Plastic



Metal



1.1B

1.2 Compatibility

		Tubes								Brackets				RCSA-... Spring assist
		RT25-580 (tape)	RT28-580 (tape)	RTU30 (tape)	RTU35 (spline)	RTU42 (tape)	RTU50 (spline)	RTU65 (spline)	RTU80 (spline)	RCU-34-W (25mm plastic)	RCU-35-W (42mm plastic)	RCU-01-... (42mm metal)	RCU-03-... (80mm metal)	
Controls	RC25... plastic chain mechanism	X								X				
	RC2504-... metal chain mechanism	X	X ¹	X ²										
	RC28... plastic chain mechanism		X	X	X					X				
	RC42... plastic chain mechanism					X	X				X			X
	RCU-16-... metal chain mechanism					X	X					X	X	X
	ABC-05 DC28 Motor		X	X	X					X ⁷	X ⁷	X	X	
	ABC-06 AC40 Motor 5Nm					X	X	X ³	X ⁴			X	X	
	ABC-07 AC40 Motor 10Nm					X	X	X ³	X ⁴			X	X	
	ABC-08 AC50 Motor 10Nm							X ⁵	X ⁶			X	X	
Easy mount endplugs	RCU-40-W 25mm	X												
	RCU-41-W 28mm		X	X	X									
	RCU-27 42mm with fixation					X	X	X ³	X ⁴					
	RCU-28 42mm					X	X	X ³	X ⁴					
	RCU-15 42mm adjustable					X	X	X ³	X ⁴					
Contra pins	RCU-36-W									X	X			
	RCU-05 (systems <4 Kg.)											X	X	
	RCU-05-H (systems <18 Kg.)											X	X	
Cover caps	RCU-11-... 42mm cover cap*											X ⁸		
	RCU-12-... 80mm cover cap												X ⁹	
Side cable	RCU-21 Medium bracket											X		
	RCU-22 Large bracket												X	
Mounting profiles	RCP 25mm roller mounting profile									X				
	RCP-42-W 42mm roller mounting profile										X	X		

*Not compatible in combination with chain control

Use adapter:

¹ RC28-A Plastic adaptor for 28mm tube

² RC30-A Plastic adaptor for 30mm tube

³ RCU-13 Plastic adapter for 65mm tube

⁴ RCU-14 Plastic adapter for 80mm tube

⁵ RCU-13-ABC Tube adapter 65mm for AC50

⁶ RCU-14-ABC Tube adapter 80mm for AC50

⁷ RCU-06 Click adapter for plastic bracket

⁸ RCU-09 Cap support for 42mm bracket

⁹ RCU-10 Cap support for 80mm bracket

1.3 Maximum system dimensions

Max. system dimensions*			
Tube:	Max. Width (m) fabric**	Max. Width (m) screen***	Max. Weight (Kg) fabric/screen
RT25-580 (tape)	1.80	-	1.1
RT28-580 (tape)	2.00	-	1.3
RTU-30 (tape)	2.30	-	1.6
RTU-35 (spline)	2.70	2.20	2.0
RTU-42 (tape)	3.00	-	2.3
RTU-50 (spline)	3.50	3.00	3.9
RTU-65 (spline)	4.00	3.50	5.3
RTU-80 (spline)	5.00	4.00	6.6

*Indications, exact max. dimensions depend on used fabric type and bottomrail

** based on average weight of fabric

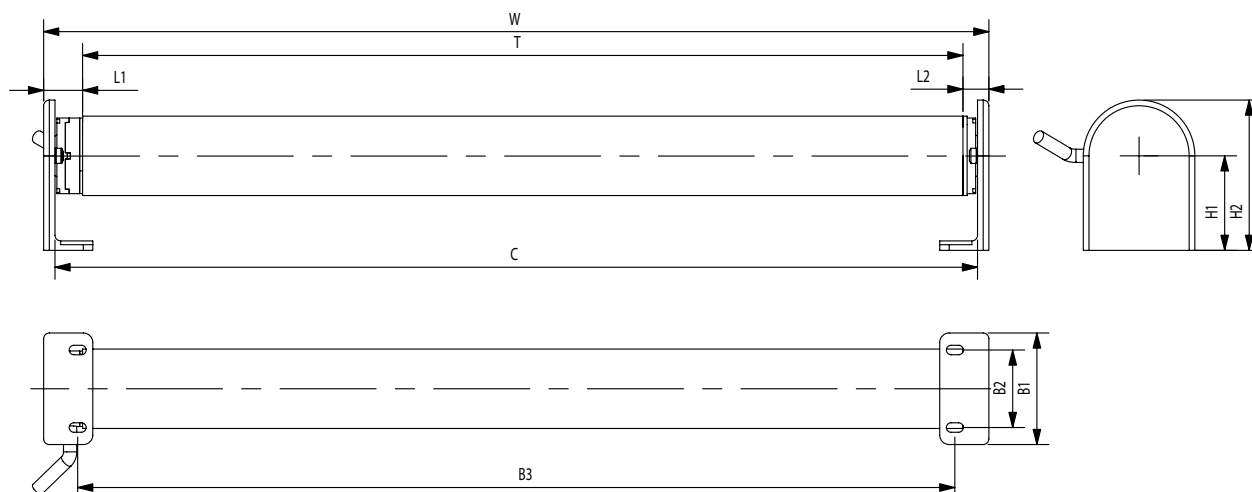
*** based on average weight of screen

Tips for choosing the best tube:

- The higher the system, the more the revolutions on the tube. Use a bigger tube for less revolutions on the tube so the change of misaligning during roll up will be as small as possible.
- For heavy chain operated systems use the RTU-42 or RTU-50 tube, by this tubes the spring assist can be used for lighter operation.

2. Calculations

2.1 Single system



W = System Width

T = Tube length

C = CoverCap length (optional, only for 42/80mm metal brackets)

B1 = Bracket Width

B2 = Vertical center distance

B3 = Horizontal center distance

H1 = Bracket Center

H2 = Bracket Height

L1 (mm)		
Control	Plastic Bracket	Metal Bracket
RC25/28	18,0	X
Rc42	22,0	X
Metal RC25	X	19,0
Metal RC42	X	26,0
DC Motor	17,0	18,0
AC40 Motor	X	21,0
AC50 Motor	X	25,0

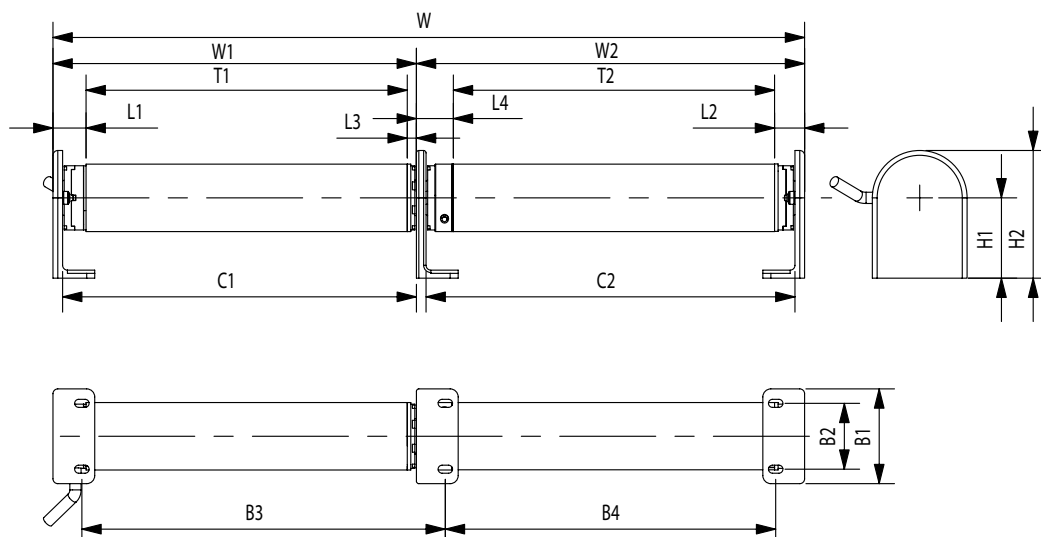
L2 (mm)	
25mm Plastic Bracket	10,0
42mm Plastic Bracket	12,0
25mm Metal Bracket	12,0
42mm Metal Bracket	14,0
42mm/80mm Metal bracket (i.c.w. RCU-05-H)	19,0

	B1 (mm)	B2 (mm)	B3 (mm)	H1 (mm)	H2 (mm)
25mm Plastic bracket	45,0	30,1	W - 24,5	33,0	55,0
42mm Plastic Bracket	57,0	43,5	W - 32	47,1	76,0
25mm Metal Bracket	45,0	30,1	W - 24,5	33,0	55,0
42mm Metal Bracket	59,0	41,0	W - 36	50,0	79,5
80mm Metal bracket	86,0	58,0	W - 52	65,0	108,0

$$T = W - L1 - L2$$

$$C = W - 12$$

2.2 Intermediate system



L1 (mm)	
Control	Metal Bracket
Metal RC42	26,0
DC Motor	18,0
AC40 Motor	21,0
AC50 Motor	25,0

Controller system:

$$T_1 = W_1 - L_1 - L_3$$

$$C_1 = W_1 - 6$$

Paired system:

$$T_2 = W_2 - L_2 - L_4$$

$$C_2 = W_2 - 12$$

L3 (mm)	
42mm / 80mm Intermediate bracket	7,0

L2 (mm)	
42mm Metal Bracket	14,0
42mm/80mm Metal bracket (i.c.w. RCU-05-H)	19,0

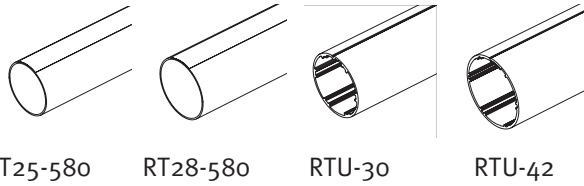
L4 (mm)	
With adjustable endplug	25,0
Without adjustable endplug	15,0

	B1 (mm)	B2 (mm)	B3 (mm)	B4 (mm)	H1 (mm)	H2 (mm)
42mm Metal Bracket	59,0	41,0	W	W - 36	50,0	79,5
80mm Metal bracket	86,0	58,0	W	W - 52	65,0	108,0

3. Assembly Screen / Fabric

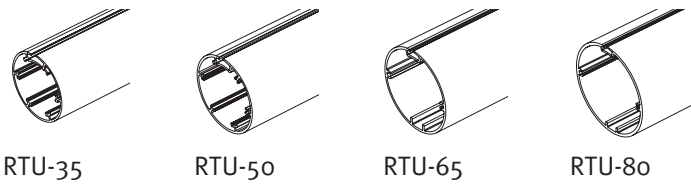
3.1 Assembly options

Tubes with adhesive (not recommended for screen):

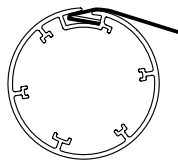


Assembly options: adhesive only

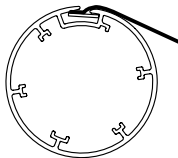
Tubes for hold down strip:



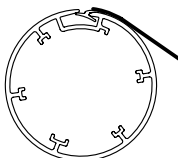
Assembly options:



For fabric (fold hold down strip):
RCU-07: Hold down strip 10 x 0,8 mm. adhesive
RBR-F-S8-AH: Hold down strip 8 x 0,4 mm. adhesive

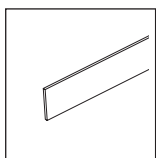


For screen or fabric (hold down strip + staples):
RCU-07: Hold down strip 10 x 0,8 adhesive



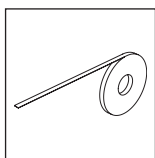
For screen or fabric (sealable hold down strip):
RCU-08: Sealable hold down strip

3.2 Hold down strip for fabric

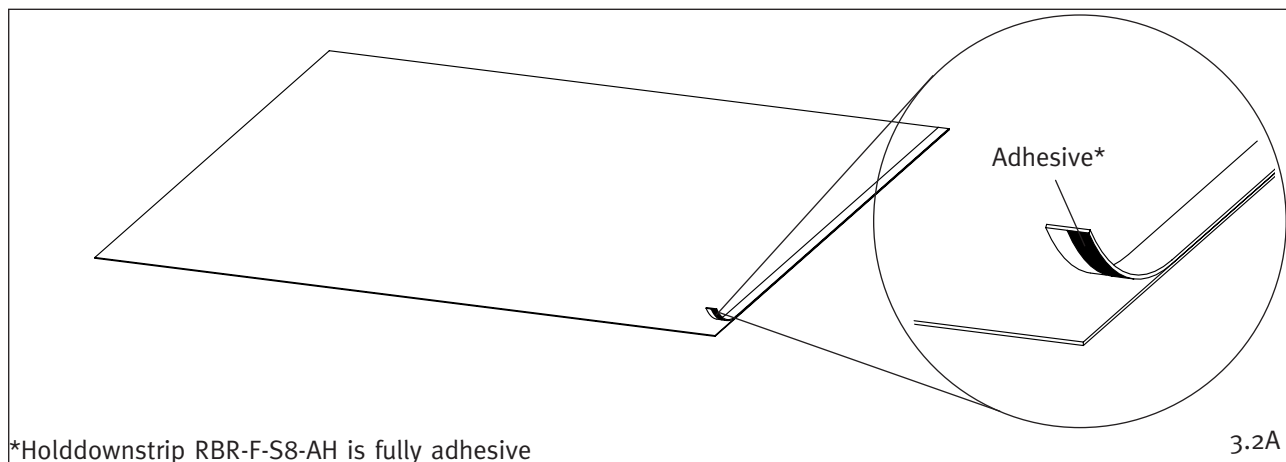


RCU-07

OR

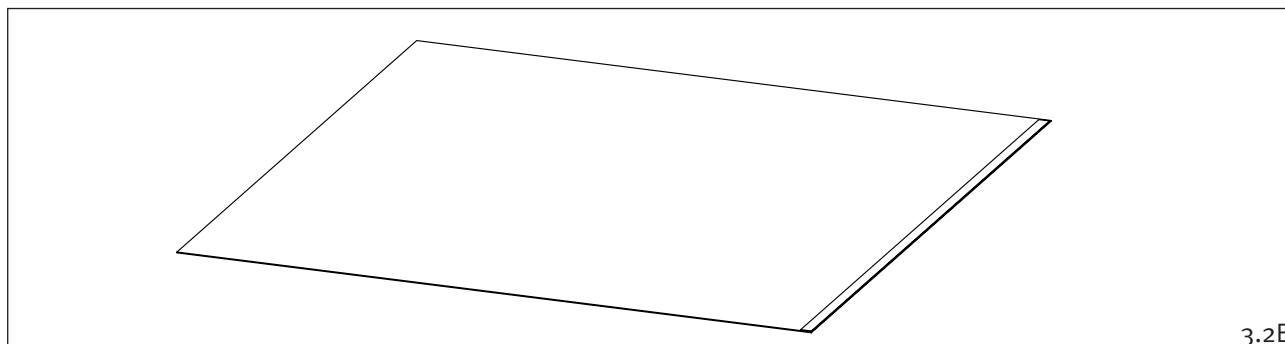


RBR-F-S8-AH

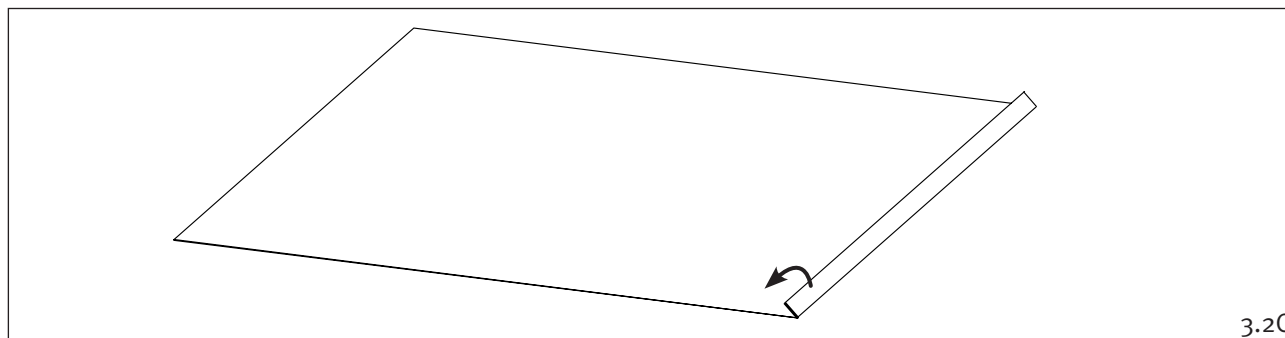


*Holddownstrip RBR-F-S8-AH is fully adhesive

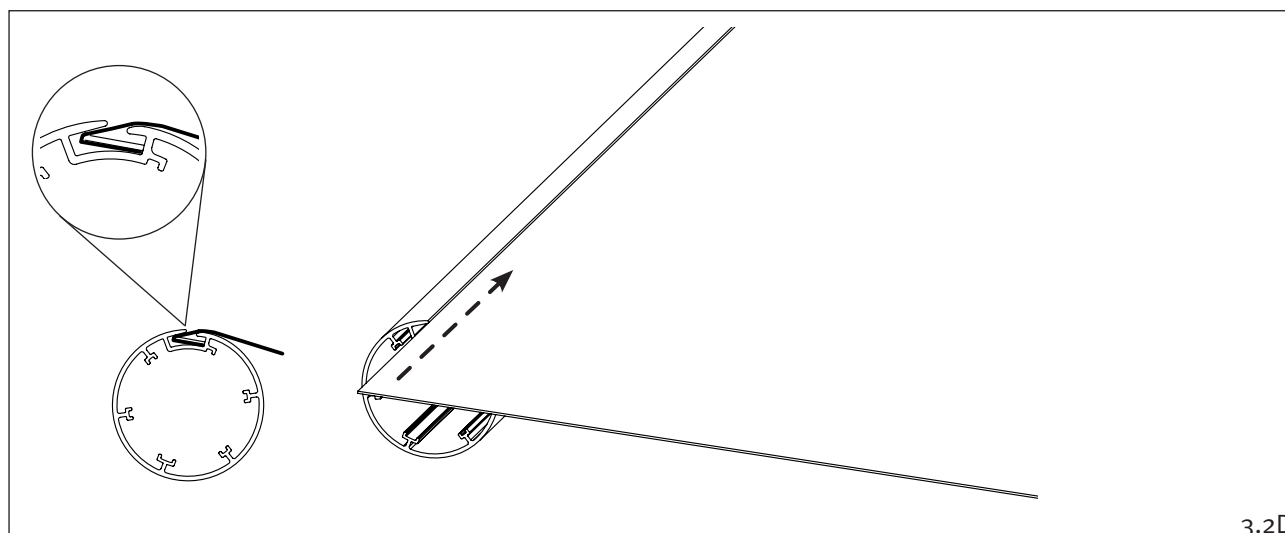
3.2A



3.2B

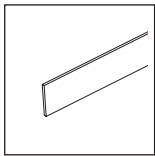


3.2C

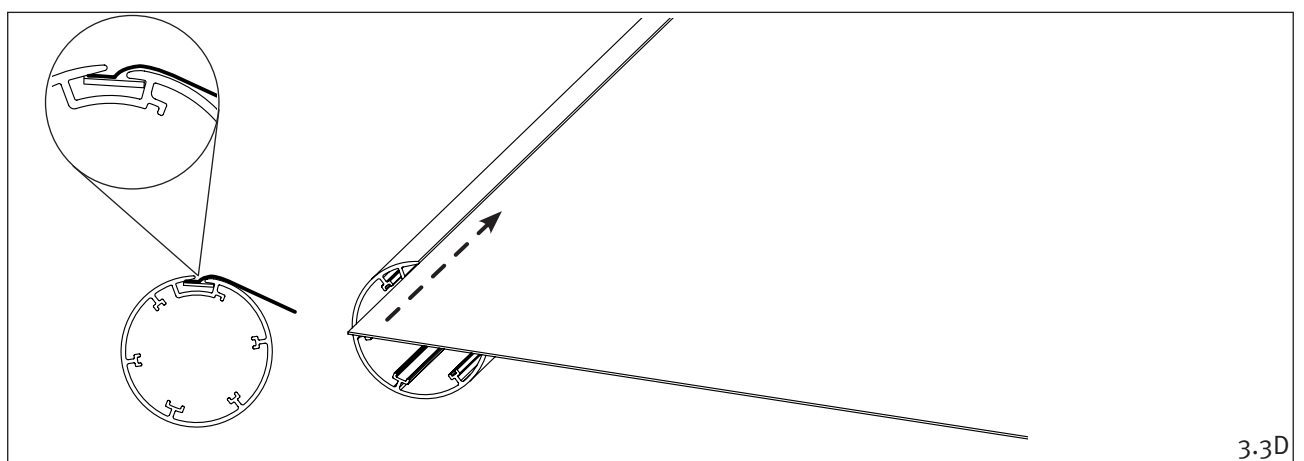
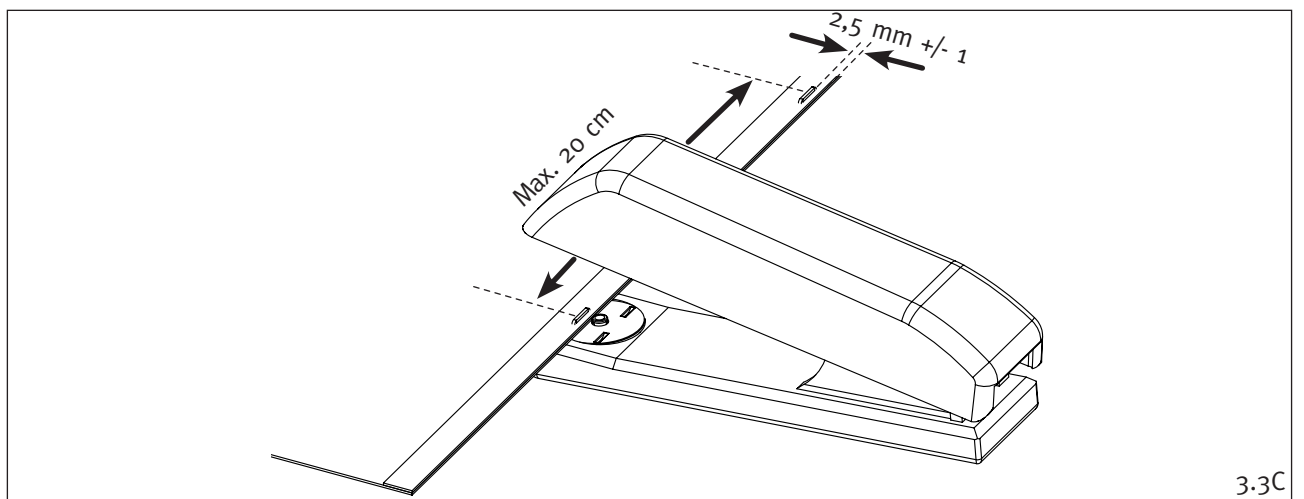
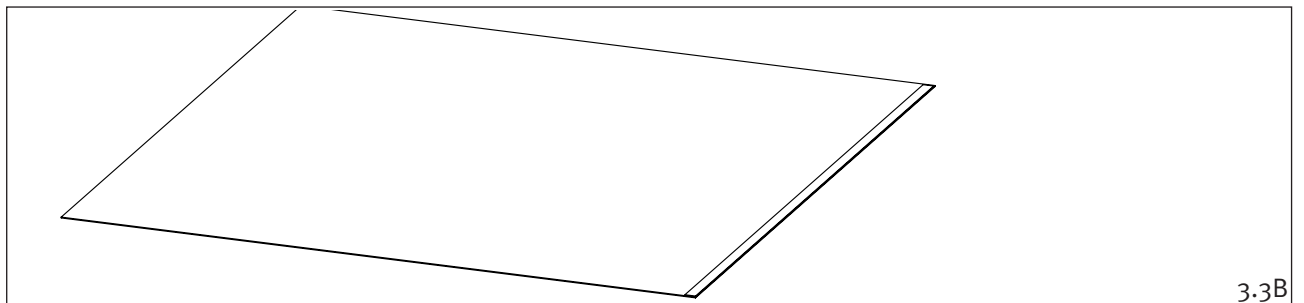
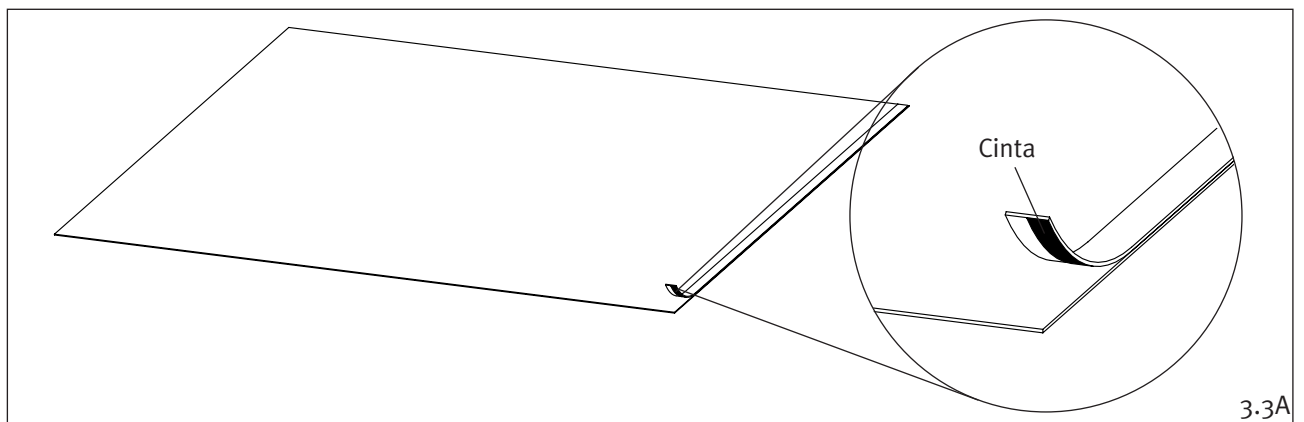


3.2D

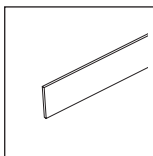
3.3 Hold down strip for screen / fabric



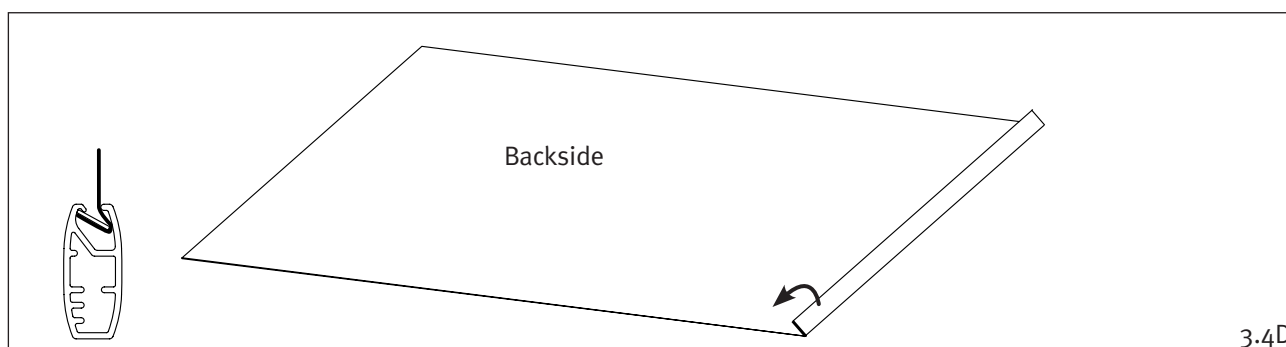
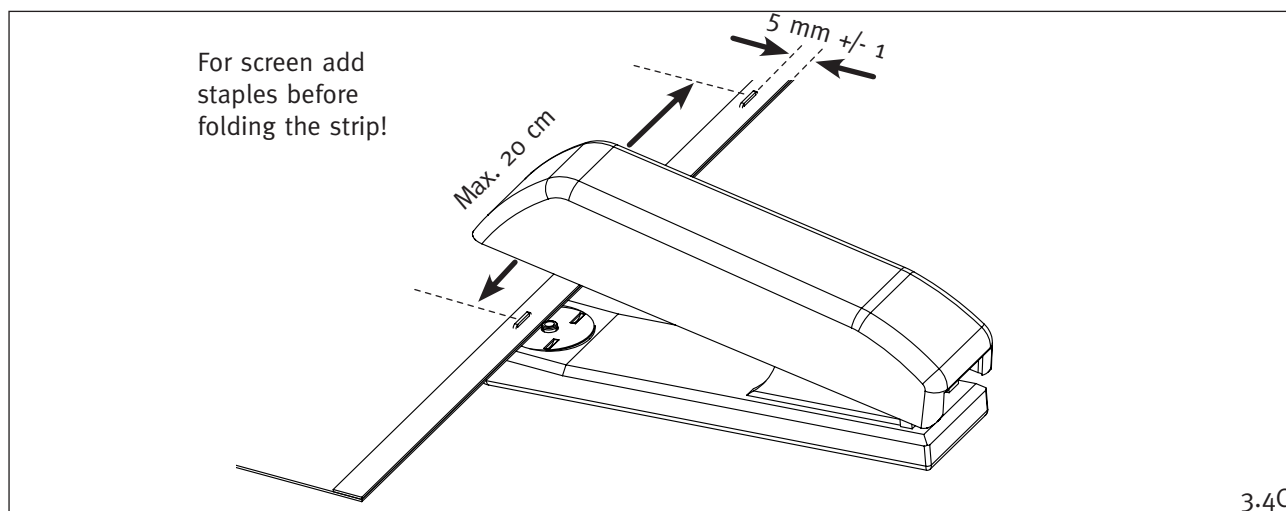
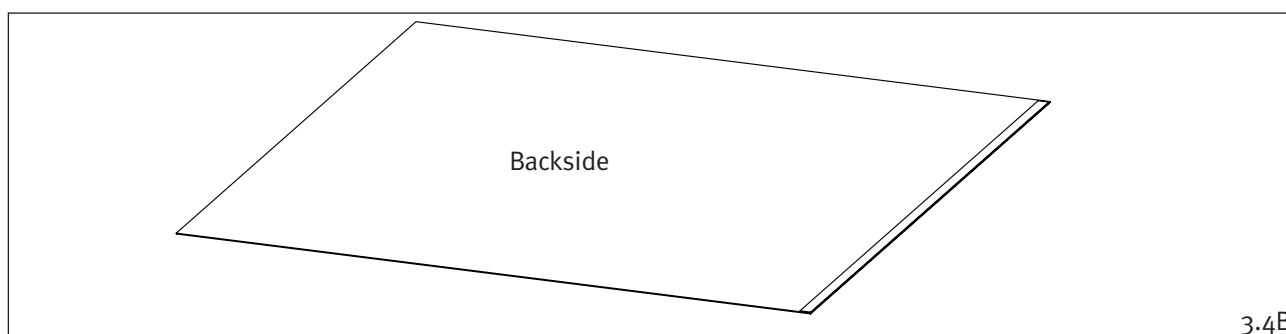
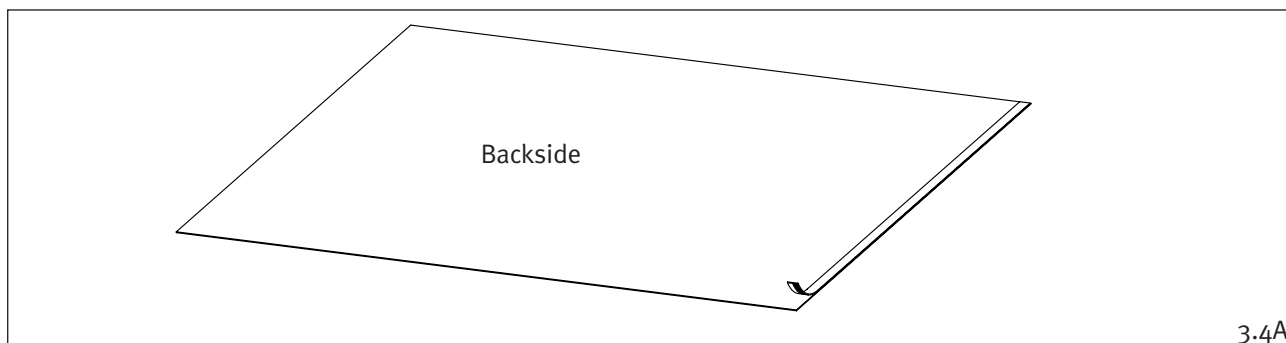
RCU-07



3.4 Hold down strip for bottomrail

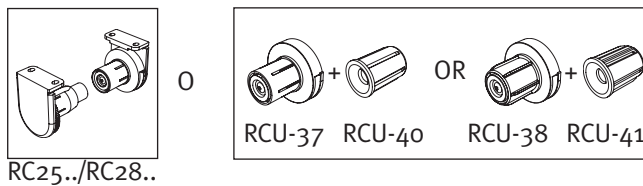


RCU-07

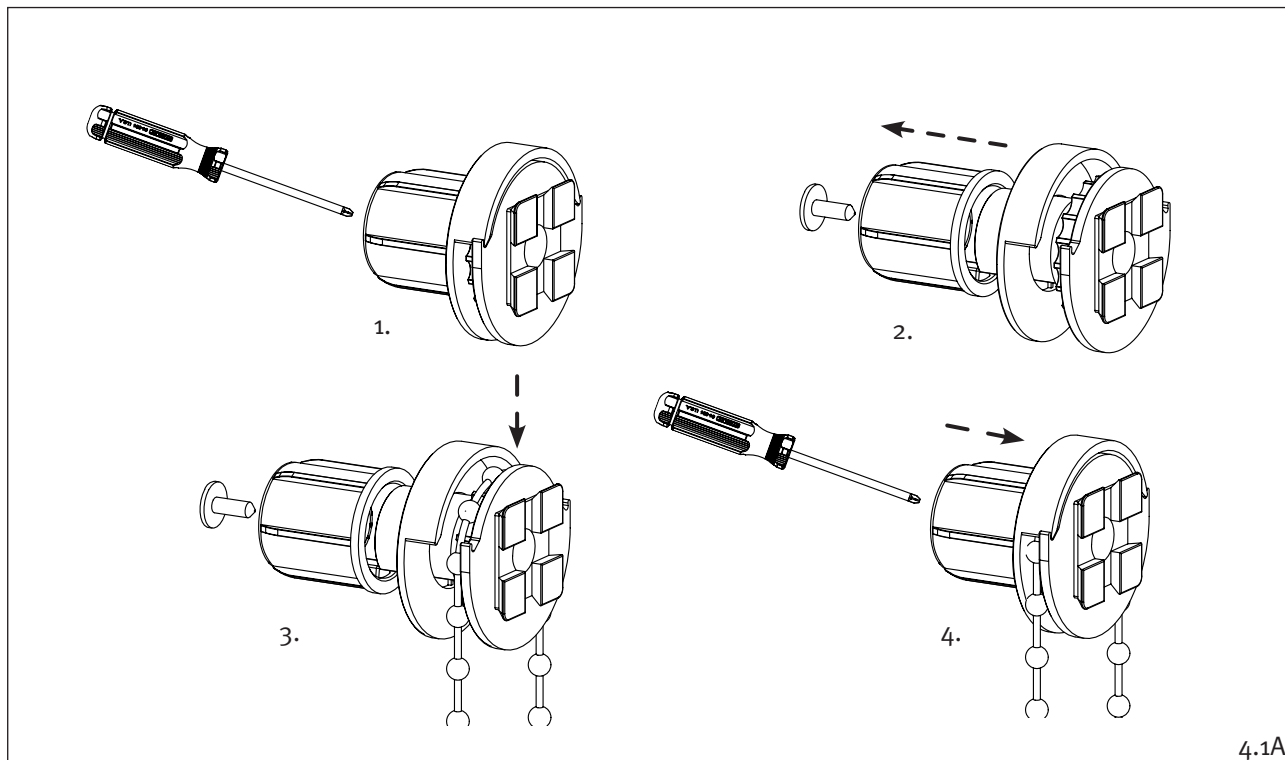


4. Assembly systems

4.1 25mm/28mm chain operated systems

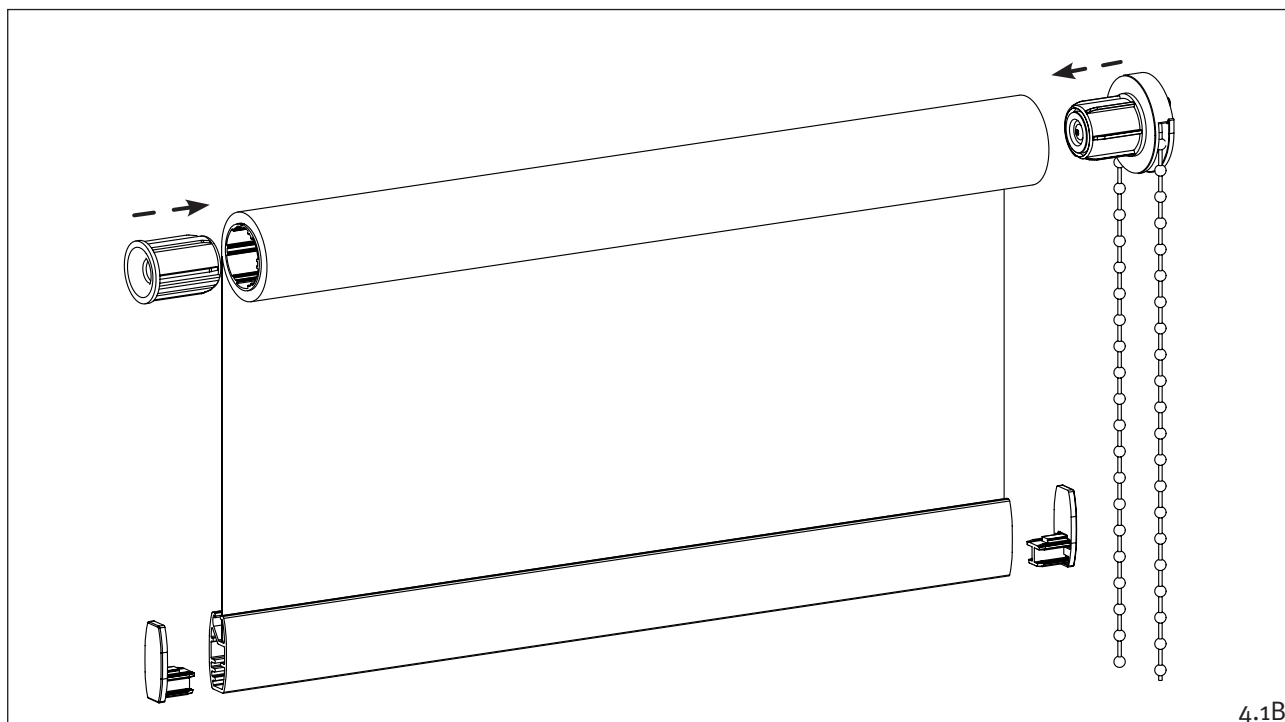


Placing the chain* in 25mm/28mm controllers

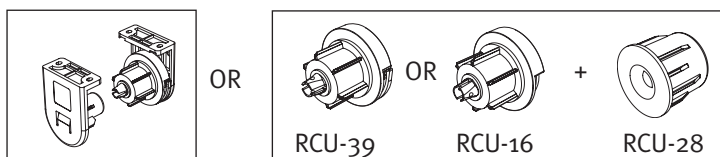


*For compatible chains see catalogue chapter accessoires

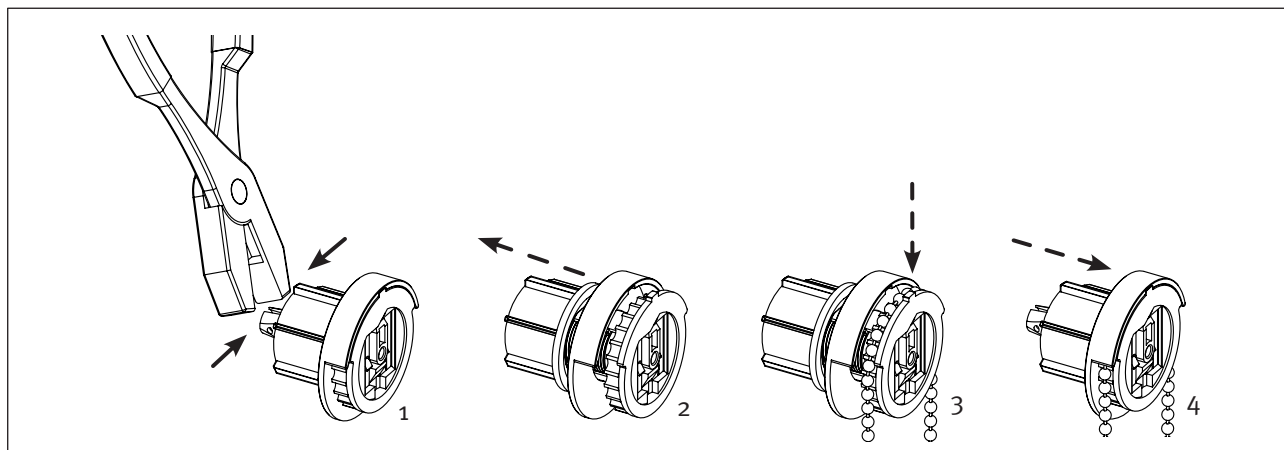
Assembling the system



4.2 42mm chain operated systems



Placing the chain*

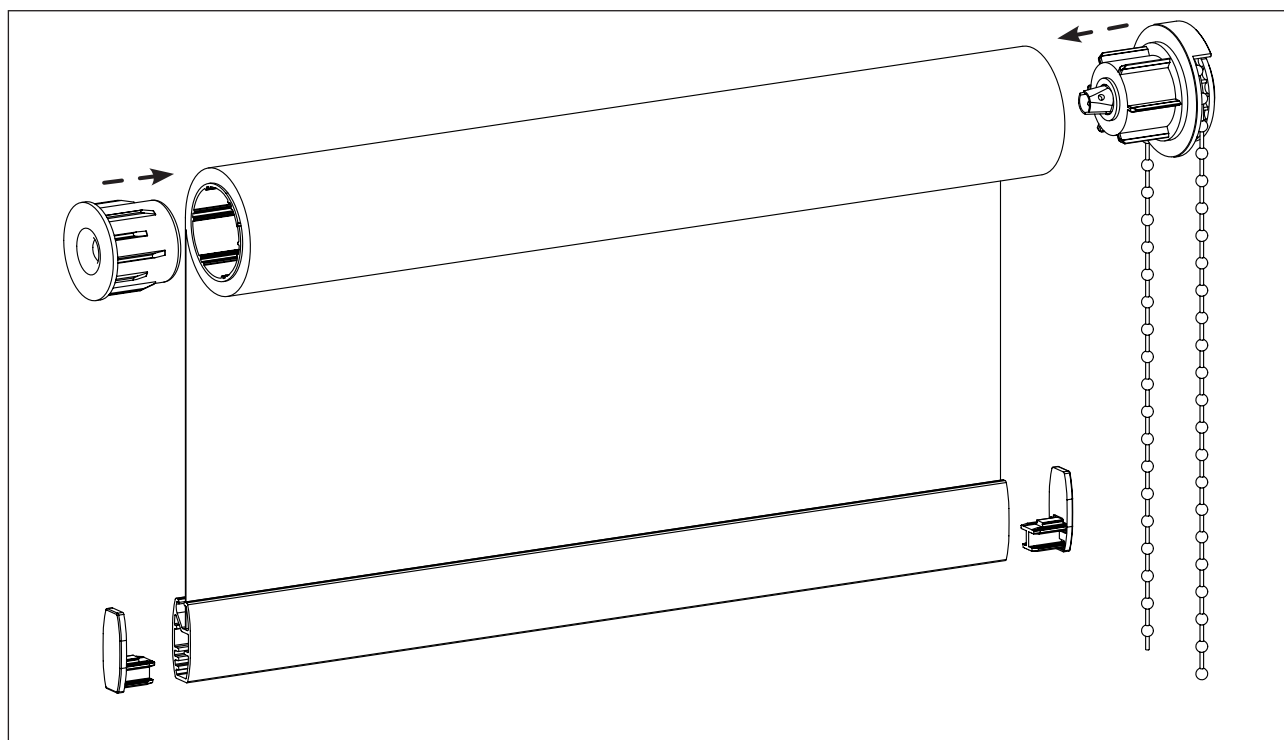


* For compatible chains see catalogue chapter accessoires

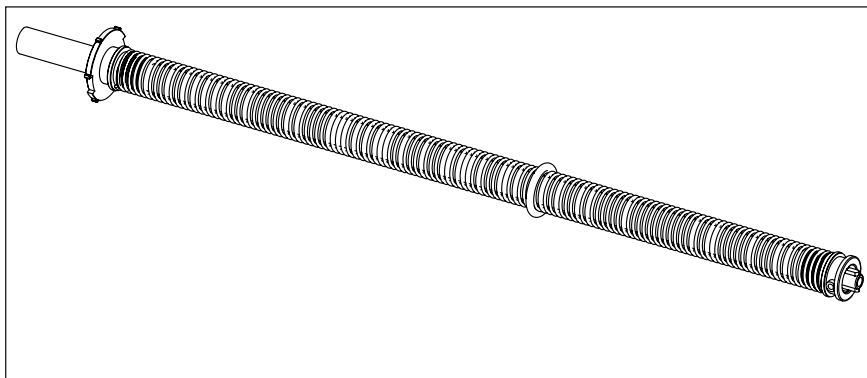
Attention:

For 42mm chain operated systems a spring assist is recommended. See chapter 4.3 how to install the spring assist before assembling the system.

Assembling the system



4.3 Spring assist (optional for 42mm chain operated systems)

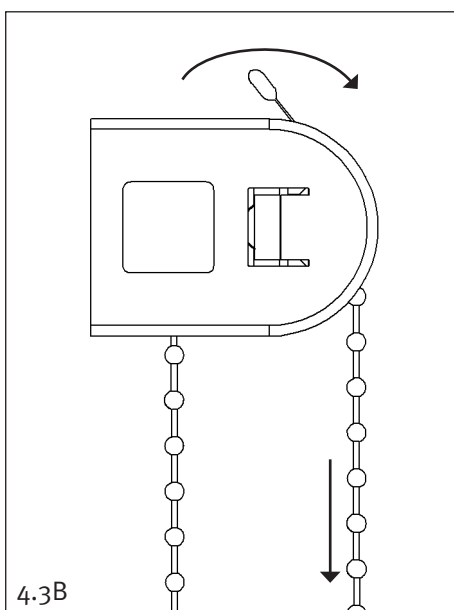


RCSA-410-L / RCSA-410-R / RCSA-650-L / RCSA-650-R

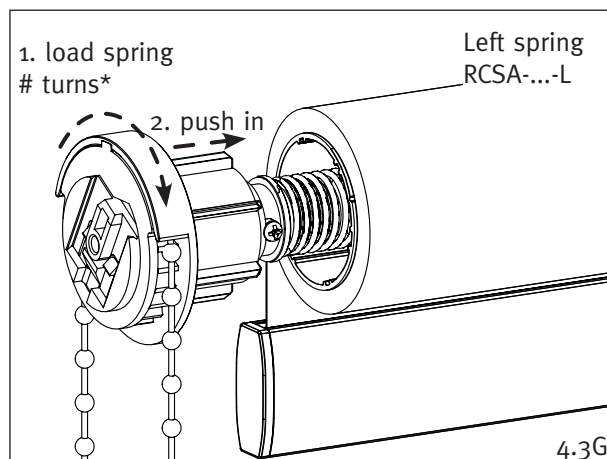
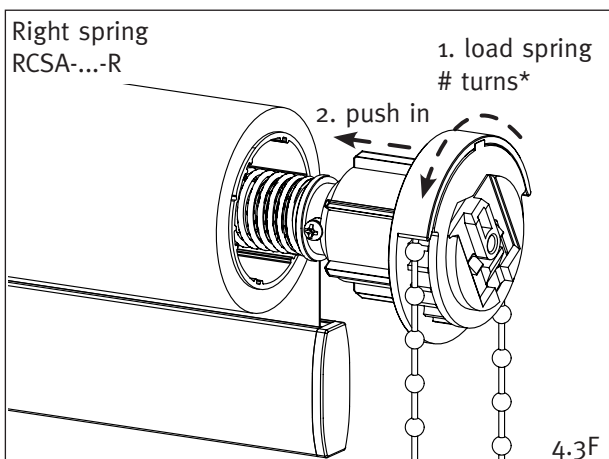
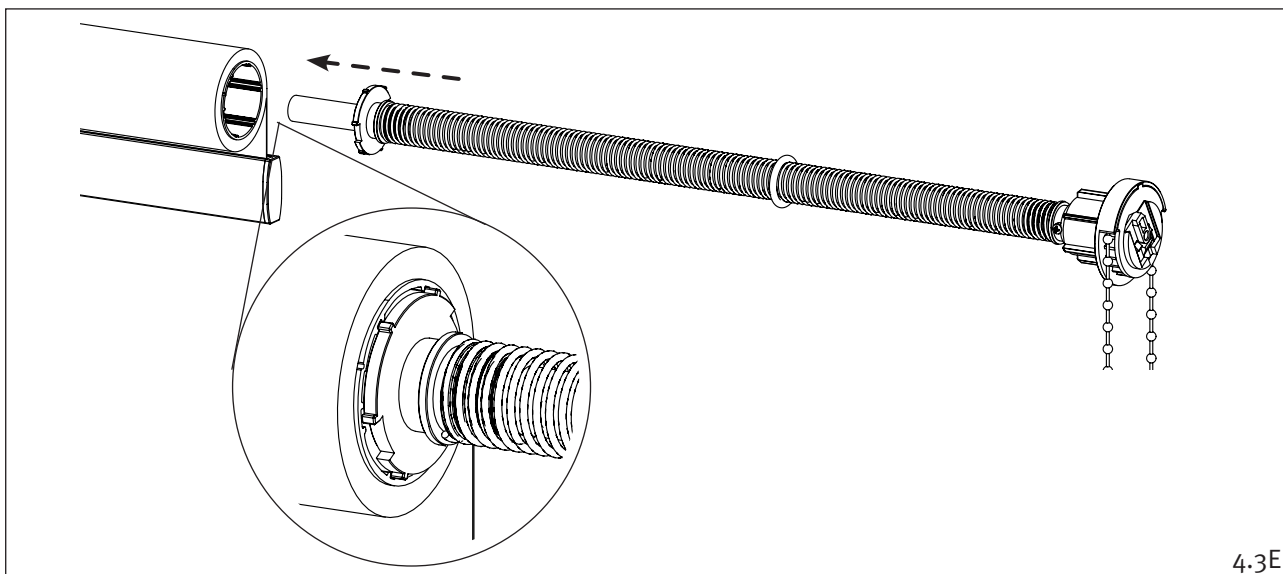
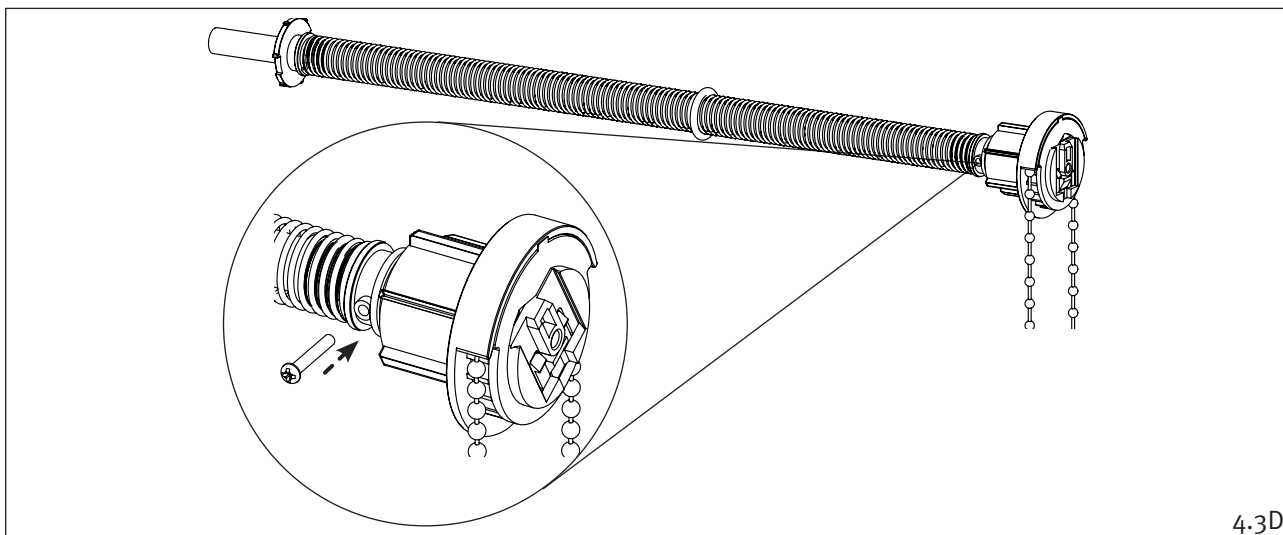
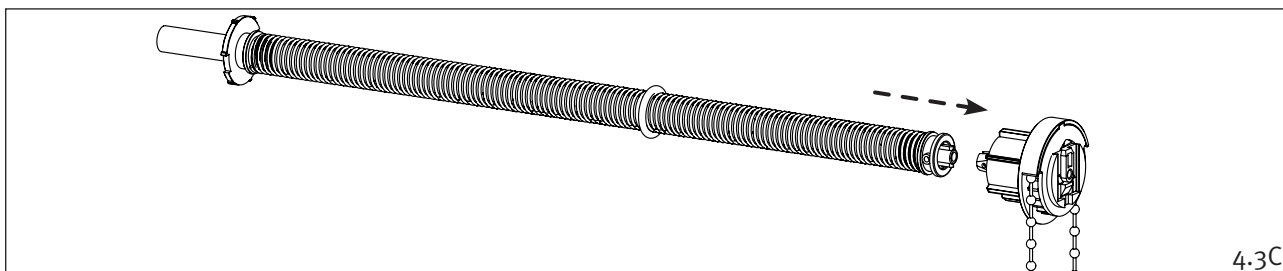
Recommended spring and number of pretensioning turns

Height	fabric gr/m2	Width											
		1,5m		1,8m		2,0m		2,3m		2,5m		2,8m	
		Spring	rev.	Spring	rev.	Spring	rev.	Spring	rev.	Spring	rev.	Spring	rev.
3m	350	typ 650	3	typ 650	5	typ 650	7	typ 410	5	typ 410	7	typ 410	8
3m	250	-	-	typ 650	2	typ 650	4	typ 650	5	typ 650	7	typ 650	8
3m	150	-	-	-	-	typ 650	1	typ 650	2	typ 650	3	typ 650	4
2m	350	typ 650	3	typ 650	5	typ 650	6	typ 410	5	typ 410	6	typ 410	8
2m	250	typ 650	2	typ 650	3	typ 650	4	typ 650	6	typ 650	7	typ 650	8
2m	150	-	-	typ 650	1	typ 650	2	typ 650	3	typ 650	4	typ 650	5
1m	350	typ 650	4	typ 650	5	typ 650	6	typ 650	7	typ 650	8	typ 650	9
1m	250	typ 650	3	typ 650	4	typ 410	4	typ 410	6	typ 650	7	typ 650	8
1m	150	typ 650	3	typ 650	3	typ 650	4	typ 650	5	typ 650	6	typ 410	5

4.3A Mentioned turns are indicative: values +/- 2 revolutions.

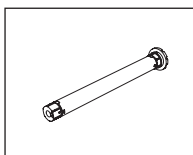


Tip: load the spring a few rotations more than indicated in the table. When inspecting the rollo after assembly, pull up the bottomrail over the rollerblind tube to unload the spring one turn. Operate the rollerblind to test if the pulling force up & down are more or less equal. If not, repeat the action.

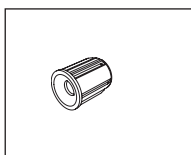


* see table 4.3A

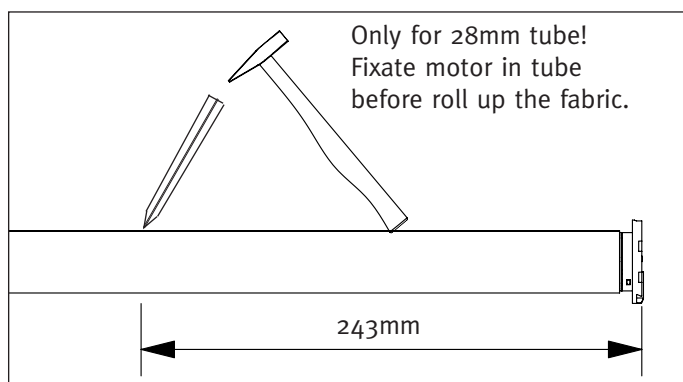
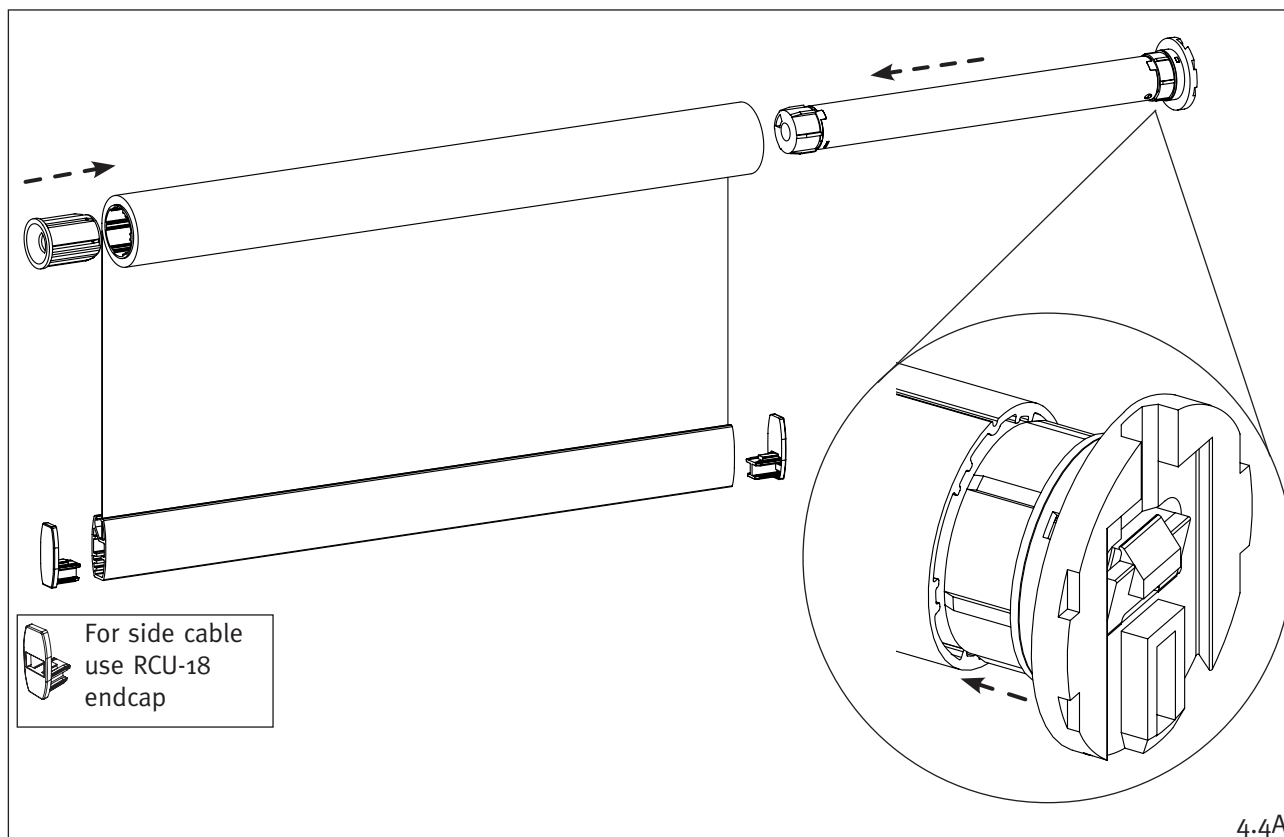
4.4 ABC-05 Motorised system 28/30/35 tube



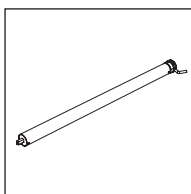
ABC-05



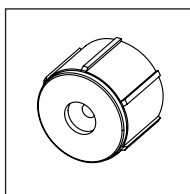
RCU-41



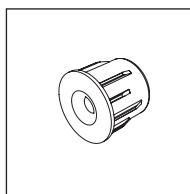
4.5 ABC-06/-07 Motorised system 42/50 tube



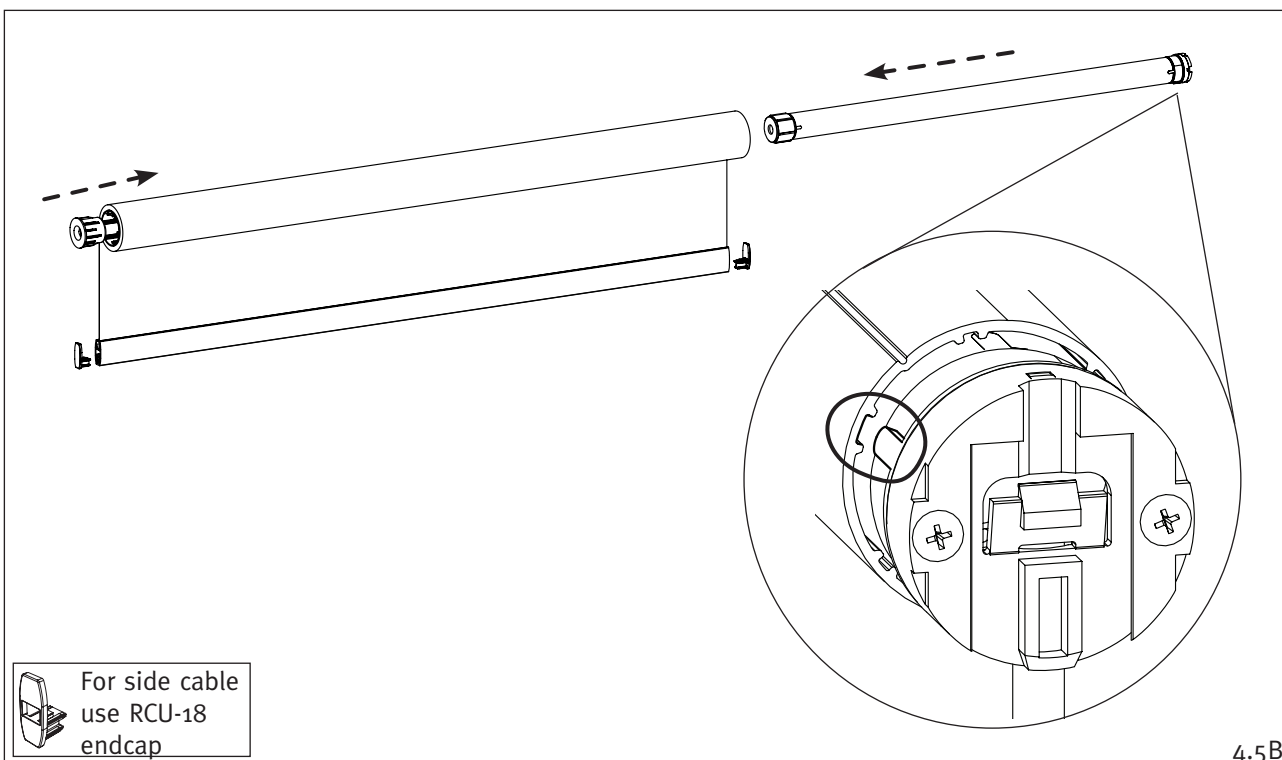
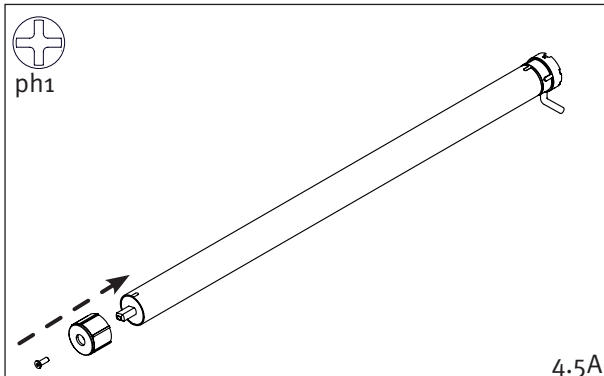
ABC-06/-07



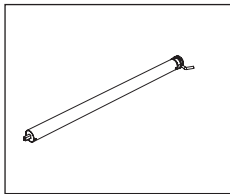
RCU-29-ABC



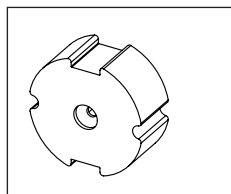
RCU-28



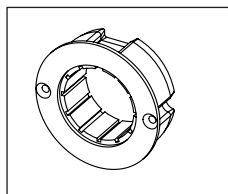
4.6 ABC-06/-07/-08 Motorised system 65/80 tube



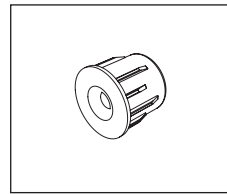
ABC-06/-07/-08



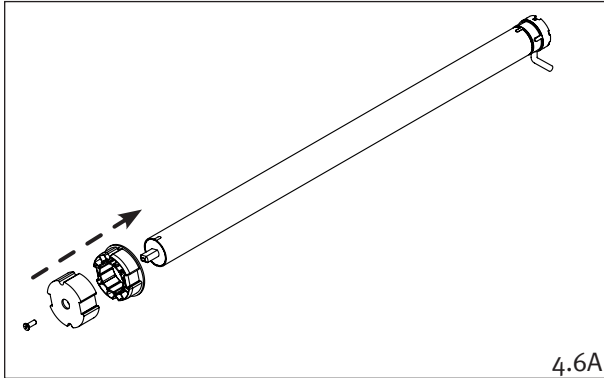
RCU-30/31/32/33-ABC*



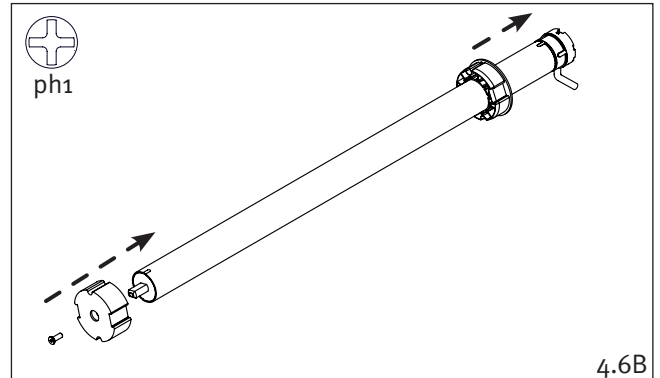
RCU-13/14*



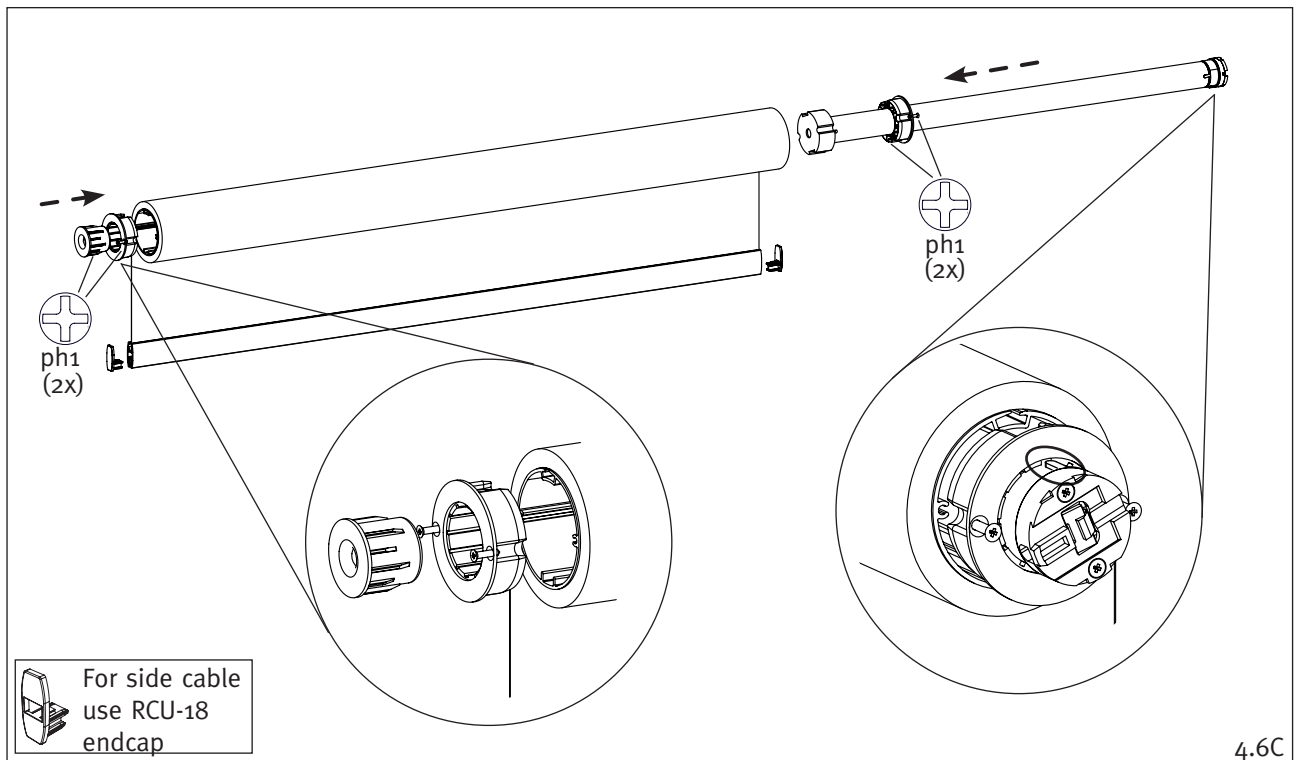
RCU-28



4.6A



4.6B

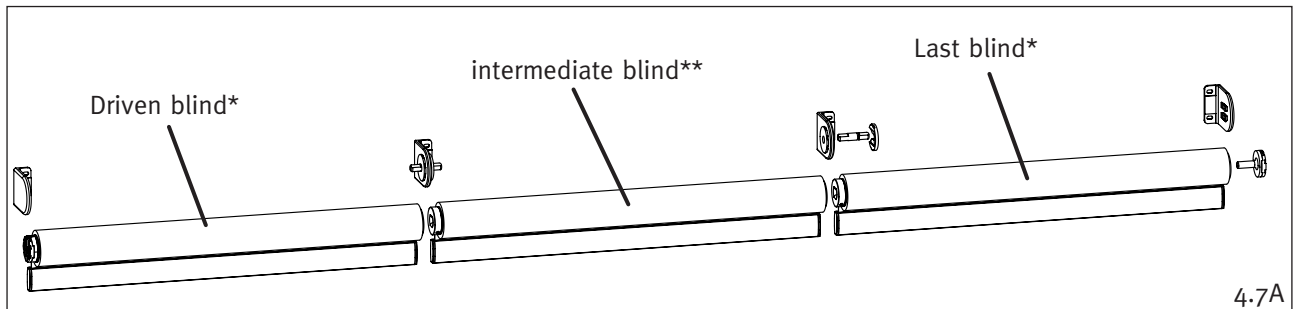


4.6C

*Check table 1.2 for the right combination of compatible parts

4.7 Intermediate system

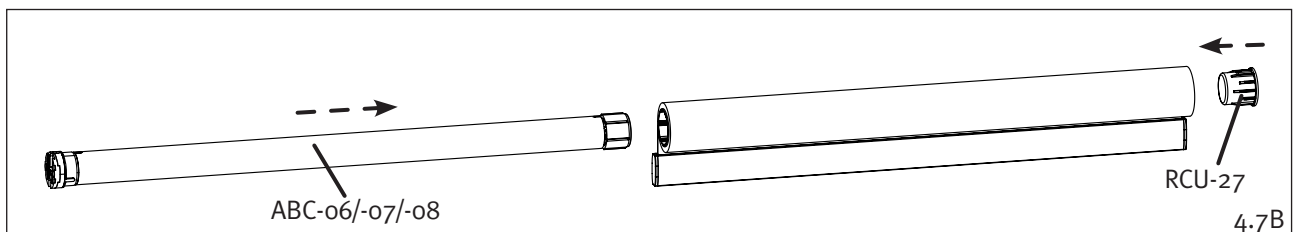
With an intermediate system blinds can be paired up to 3 blinds controlled by one motor.
IMPORTANT: All blinds must have the same height.



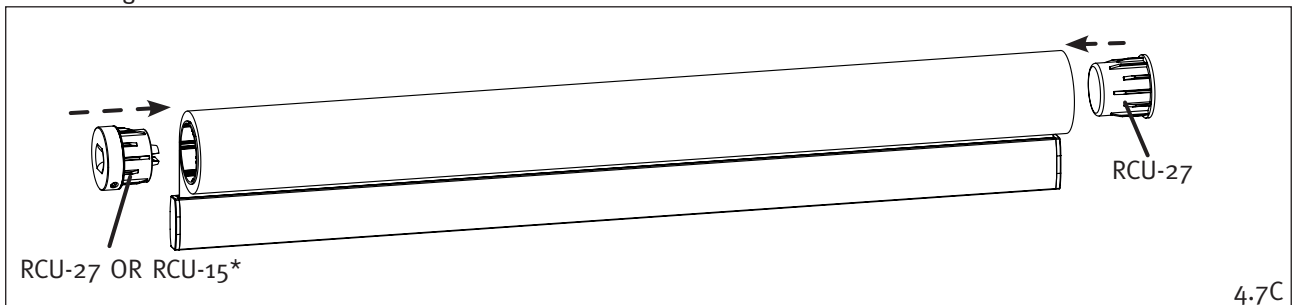
*Can be switched, depending on controller side

**Only by 3 paired blinds, with 2 paired blinds only use the driven and last blind

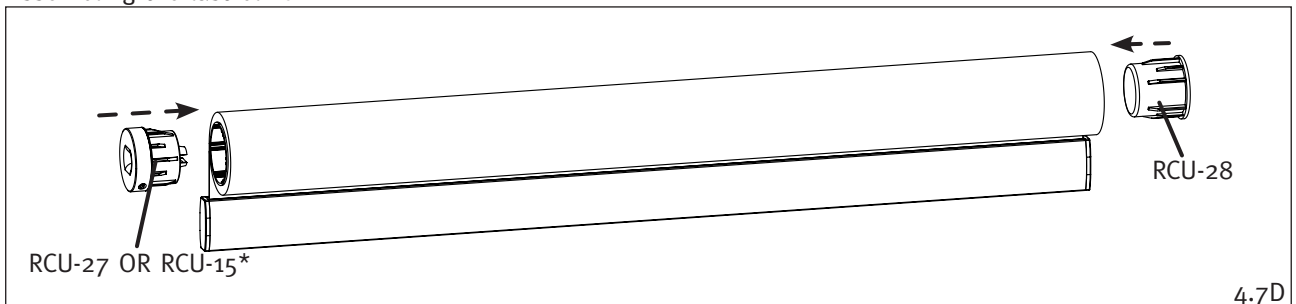
Assembling the driven blind



Assembling the intermediate blind



Assembling the last blind



*For paired blinds the RCU-15 is recommended.

By using the RCU-15 adjustable plug the misalignment of the paired blind's bottomrails can be corrected. See chapter 5.5 how to use the RCU-15. However, paired blinds must always be of the same height.

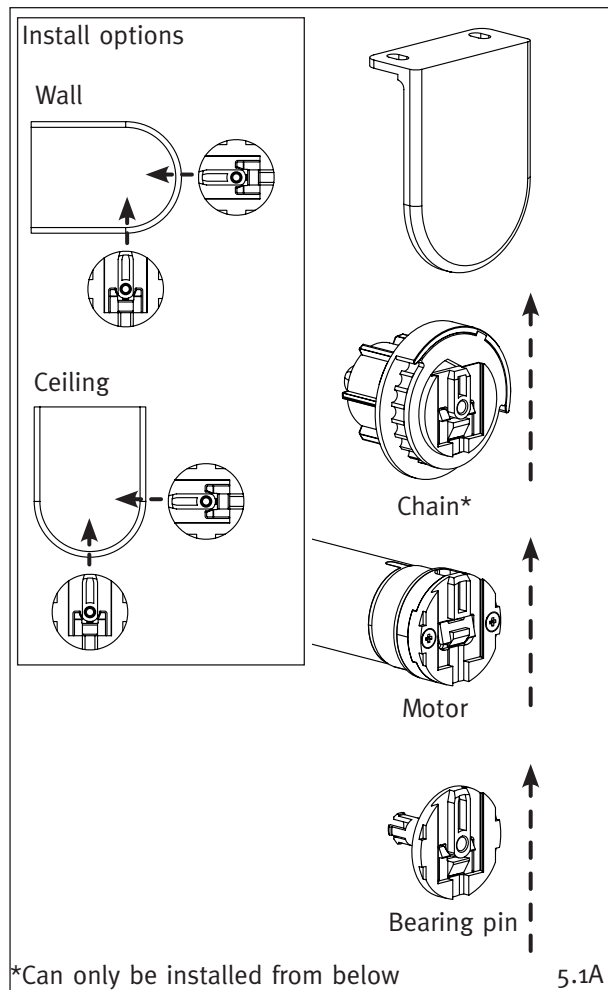
IMPORTANT: the RCU-15 can be used up to 10 Nm.

(when using the Coulisse calculation program: select the chosen part (RCU-27 or RCU-15) as control for calculating the dimensions of paired / last blind)

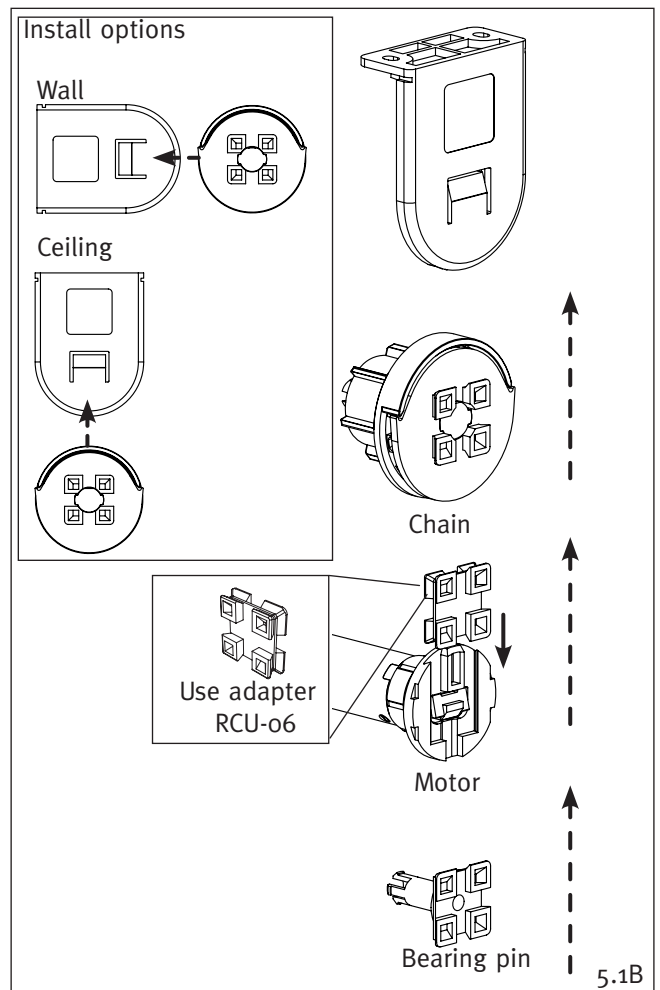
5. Installation instructions

5.1 Coulisse installing / releasing concept

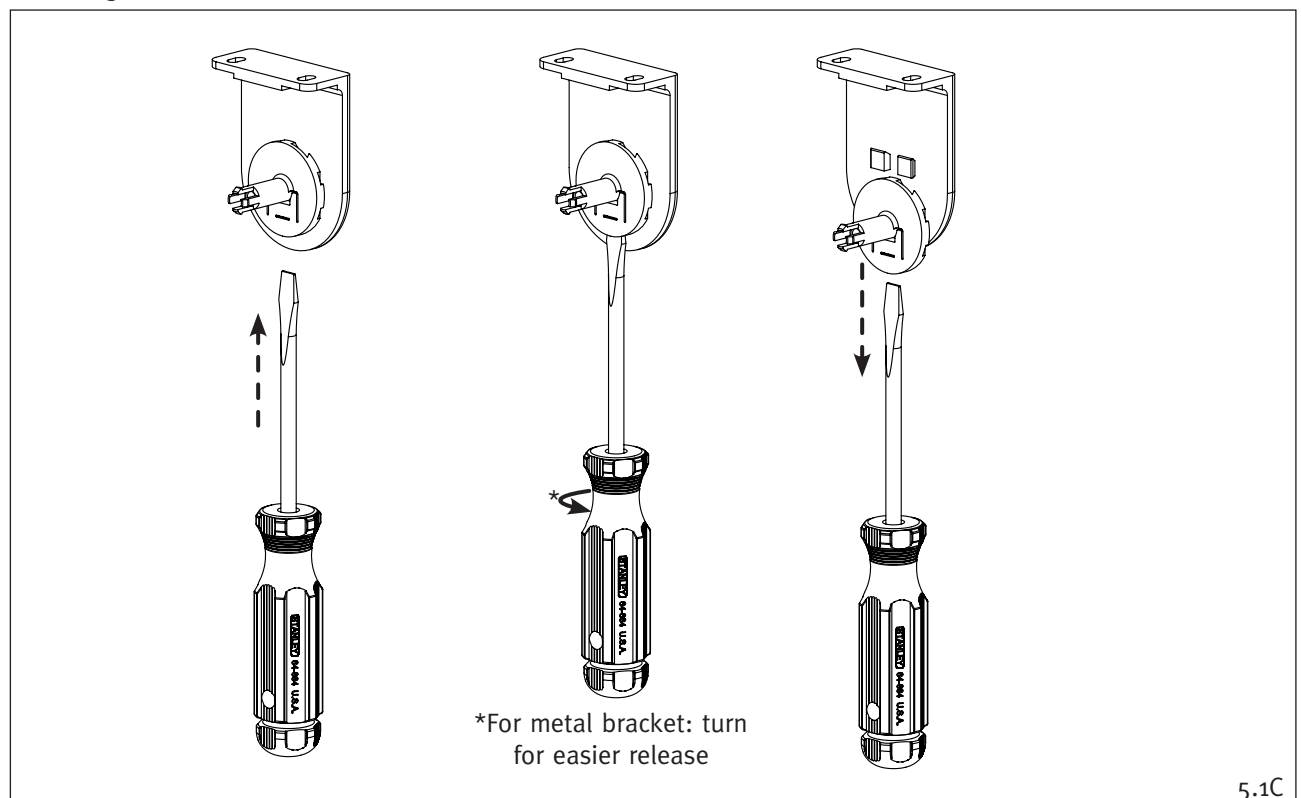
Installation with metal bracket



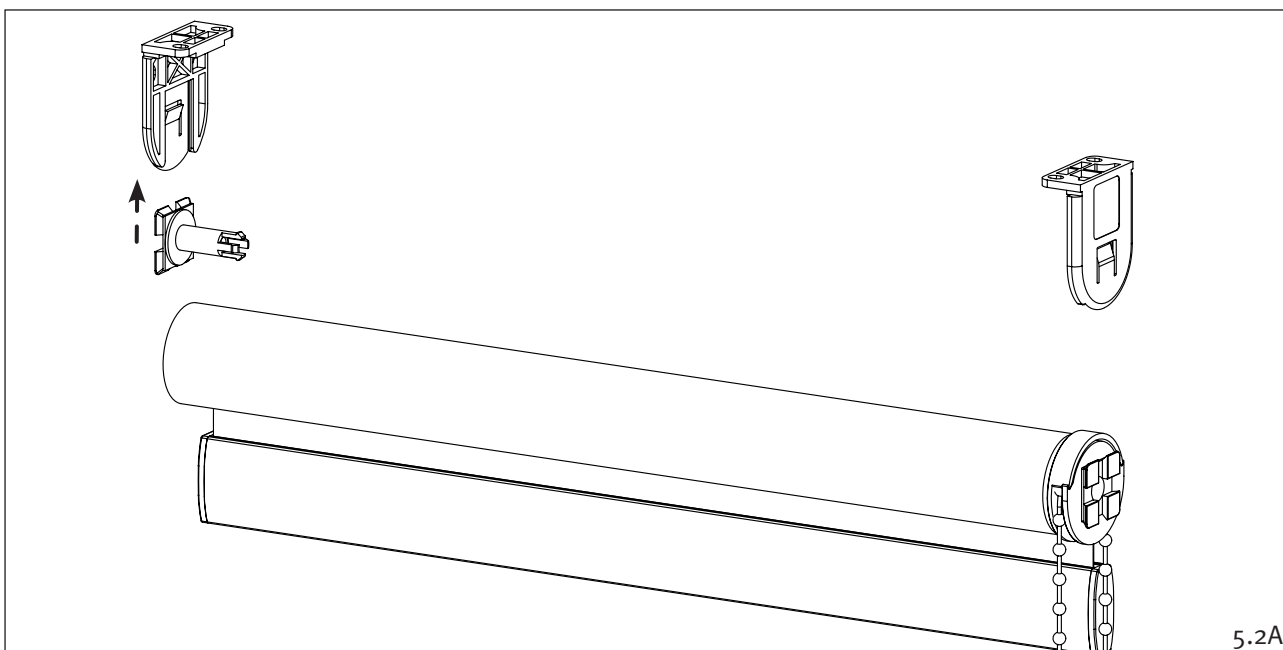
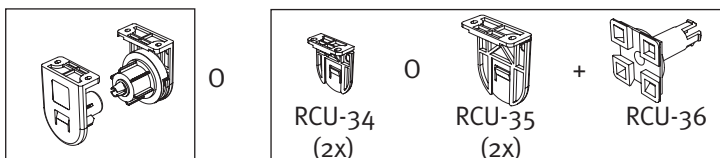
Installation with plastic bracket



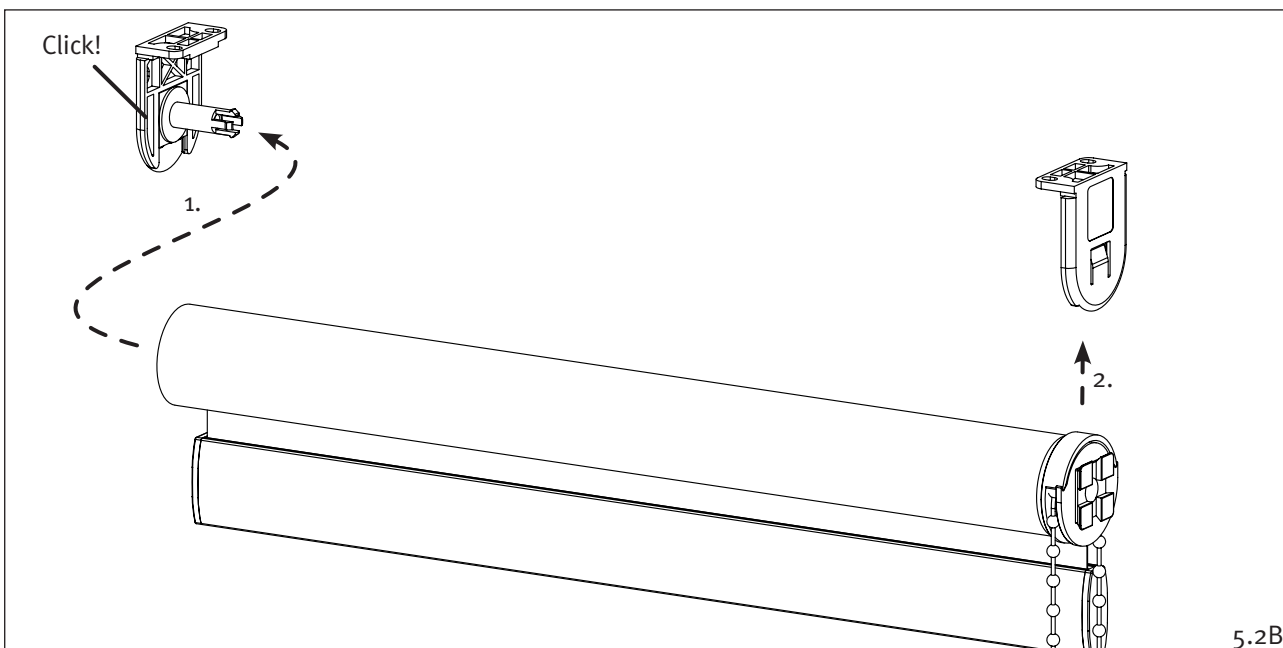
Releasing from bracket



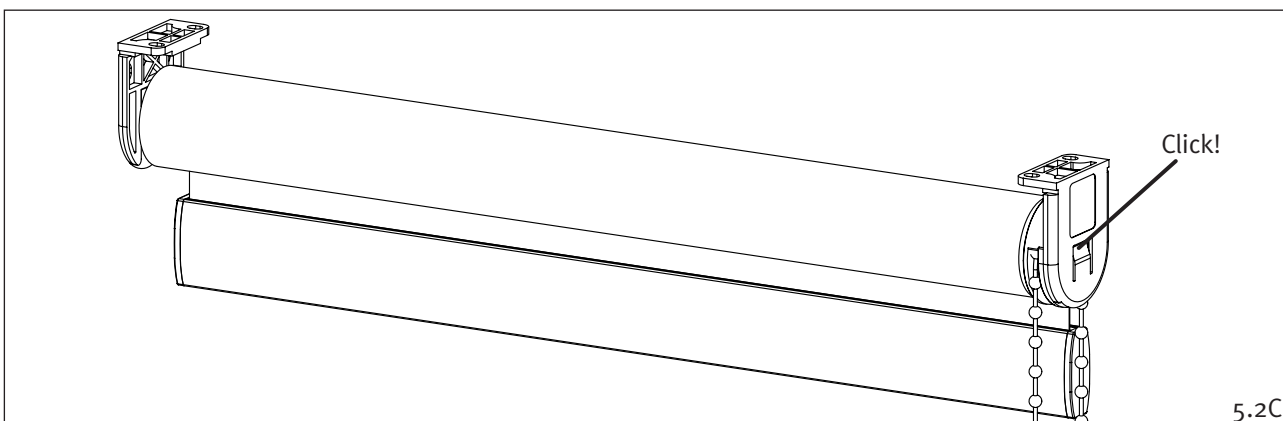
5.2 Plastic chain system



5.2A

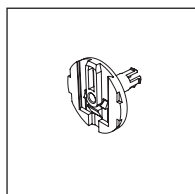


5.2B



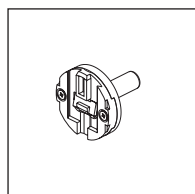
5.2C

5.3 RCU-16 chain operated system

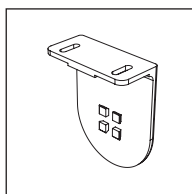


RCU-05
(systems <4Kg.)

OR

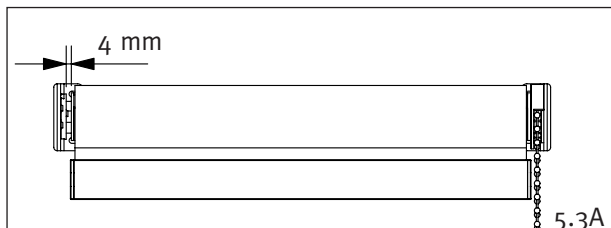


RCU-05-H
(systems <18Kg.)

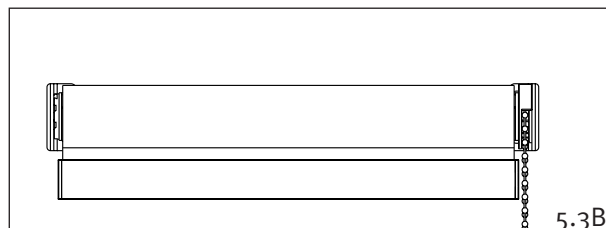


RCU-01/-03
(2x)

The RCU-16 chain mechanism can be installed in two different ways.

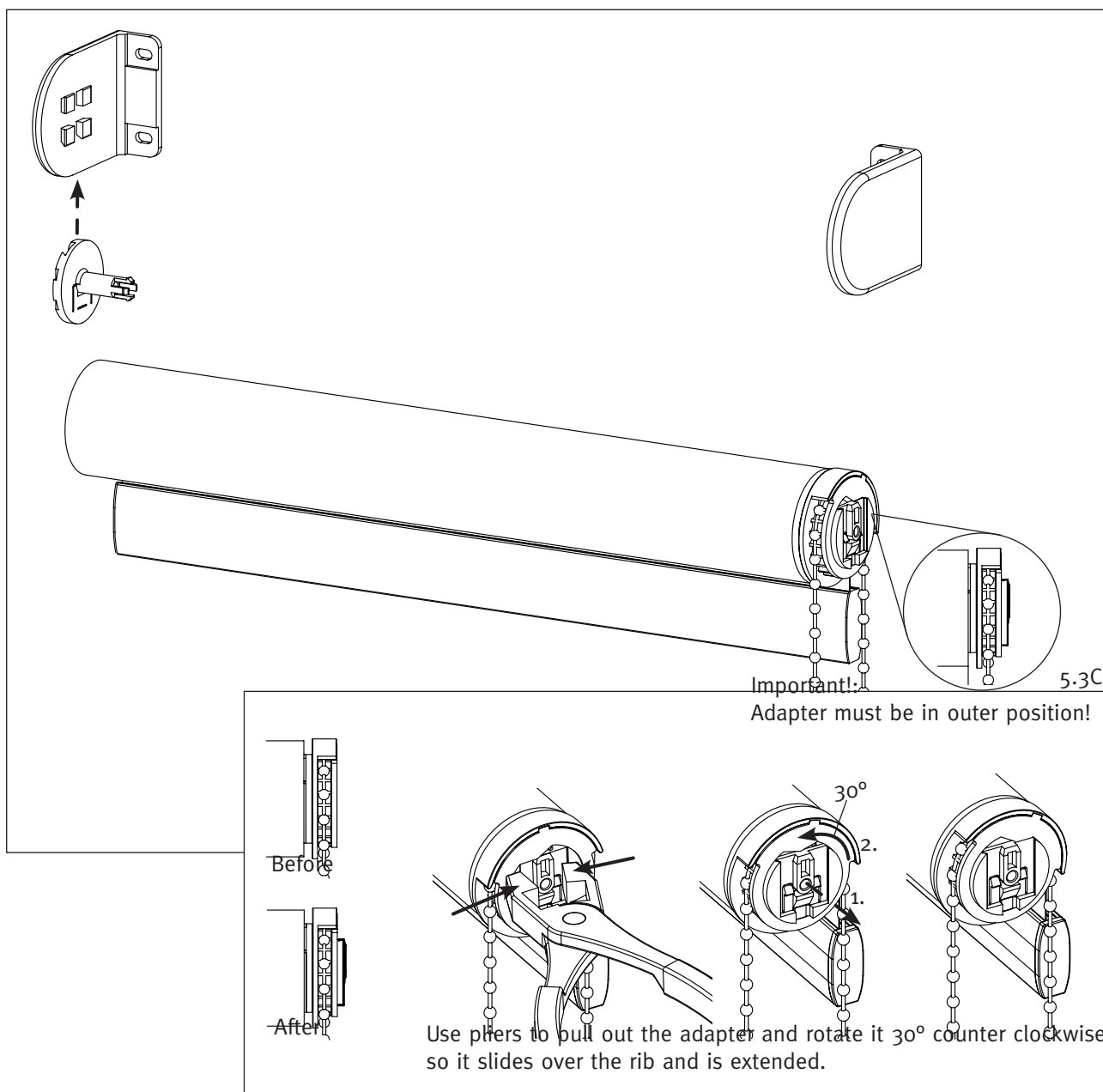


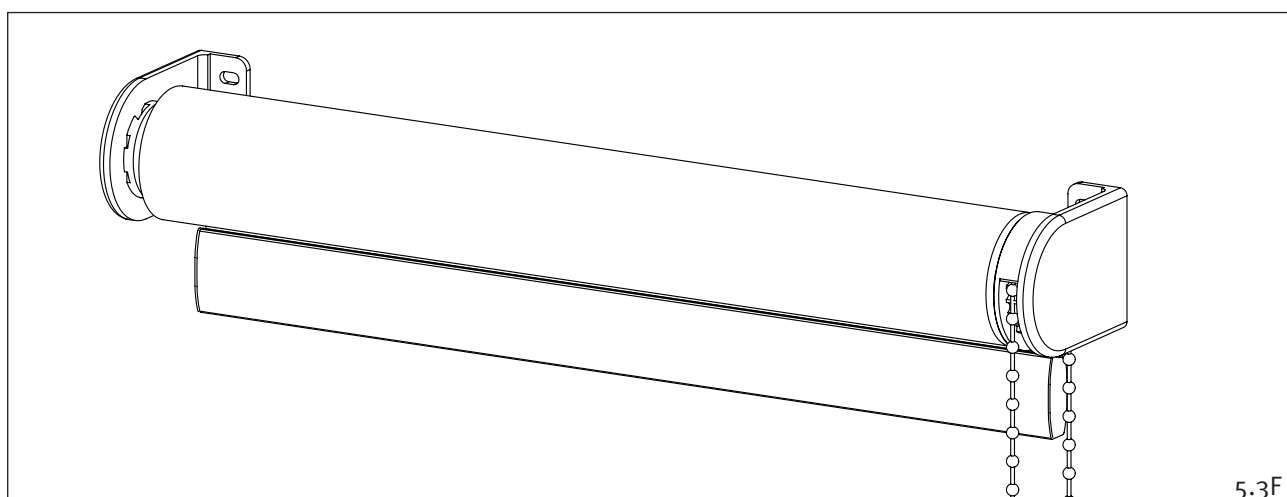
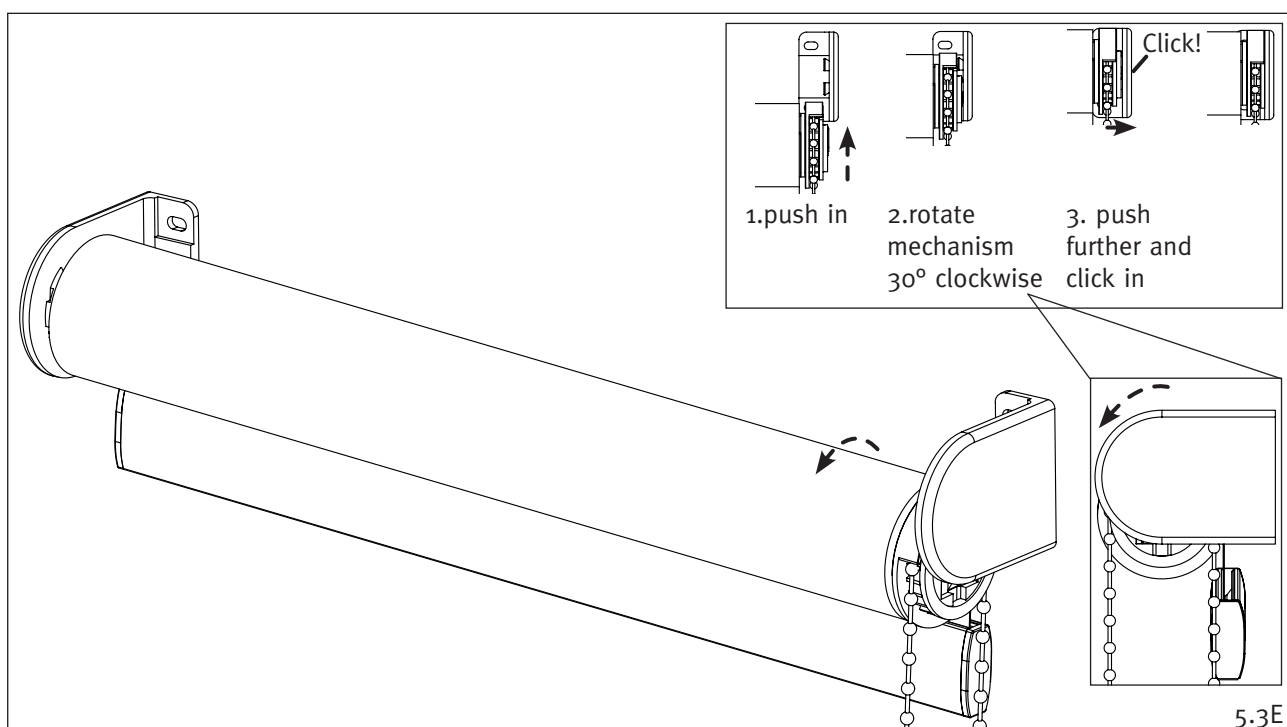
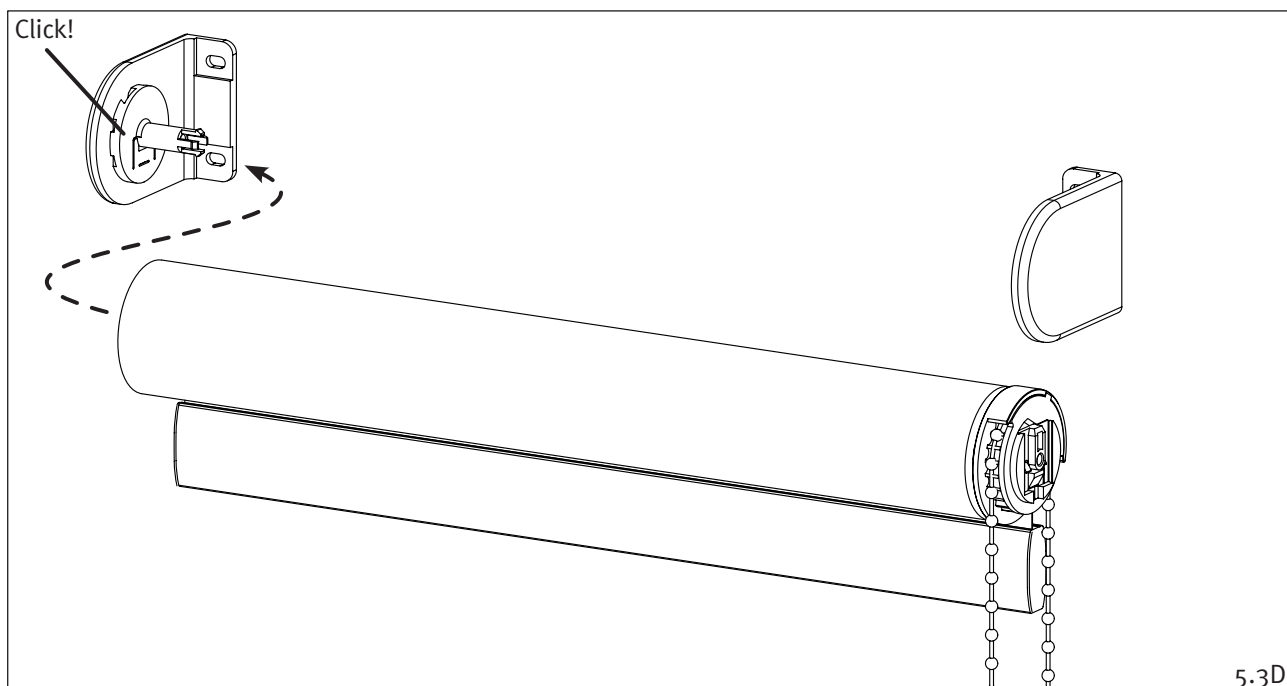
Installation 1: With 1 person, keep a small gap on contra side for clicking in the mechanism.



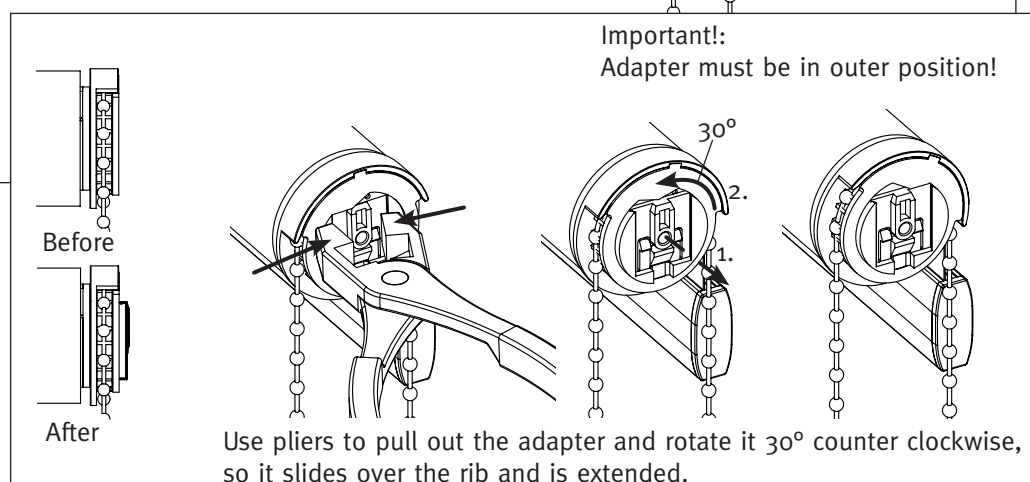
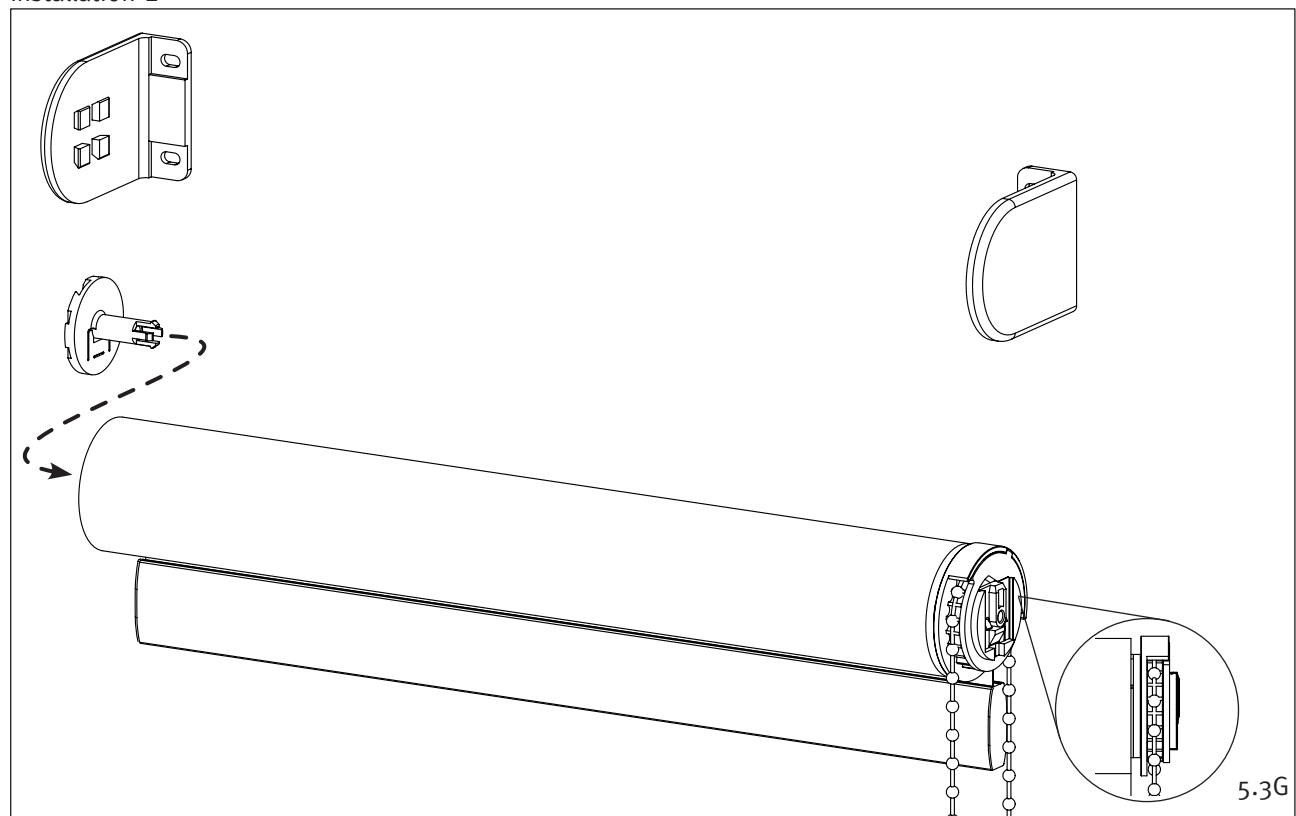
Installation 2: With 2 persons, no gap on contra side

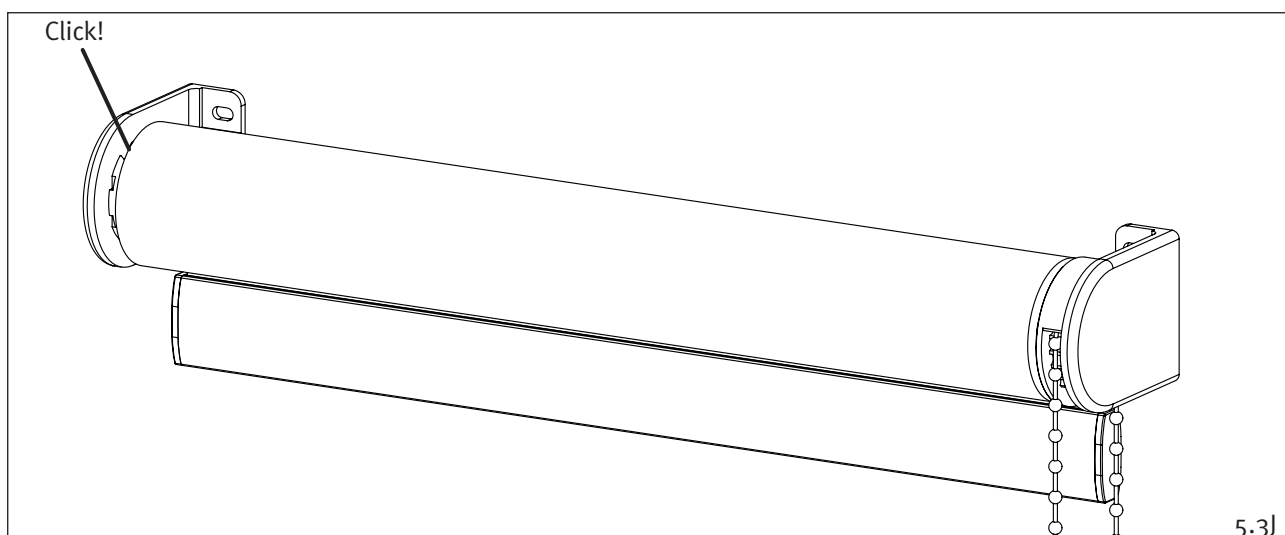
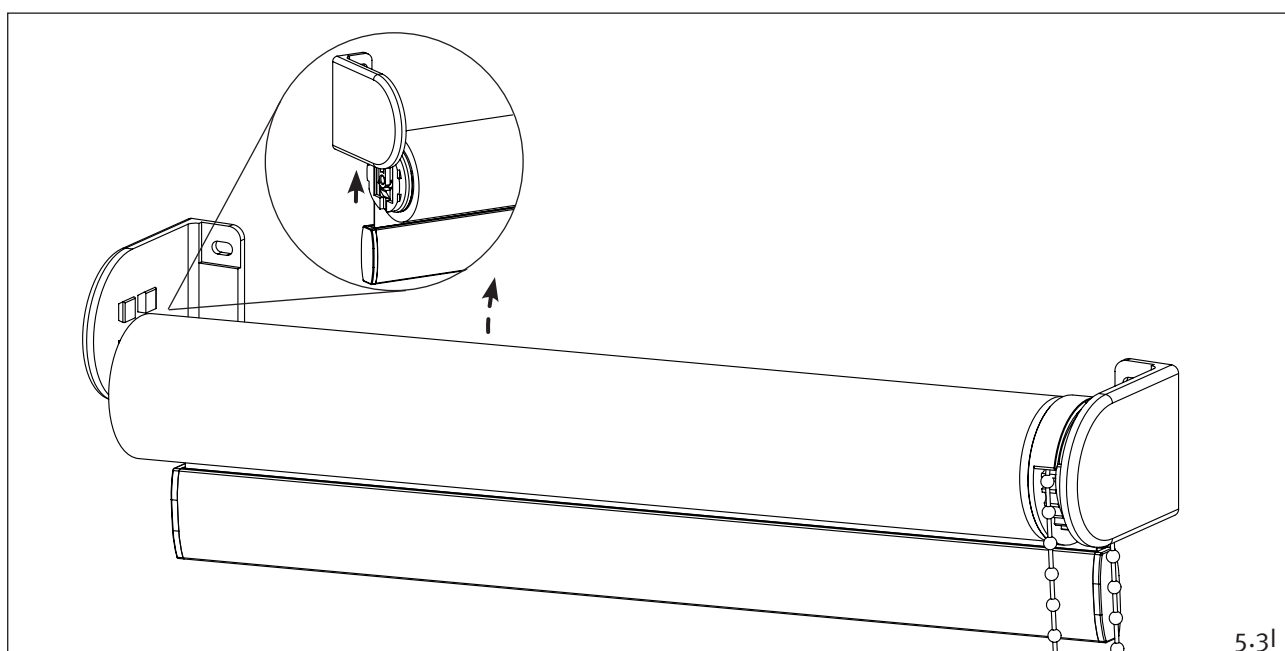
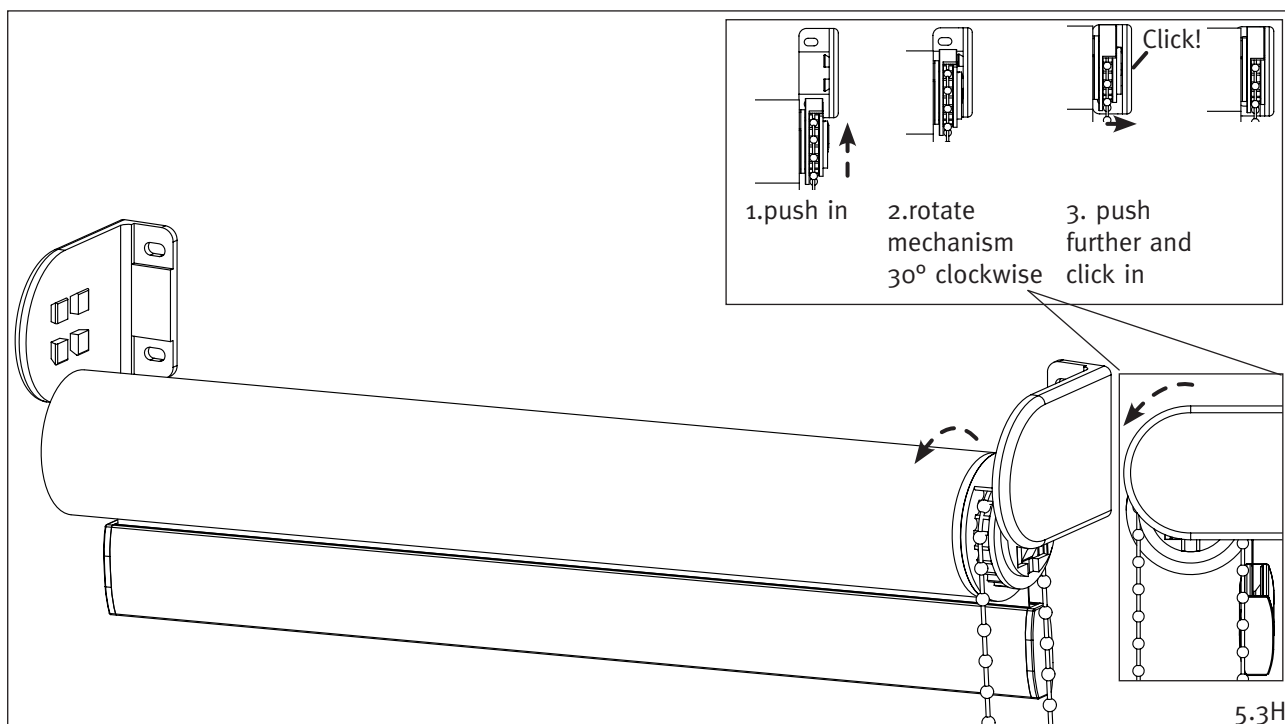
Installation 1





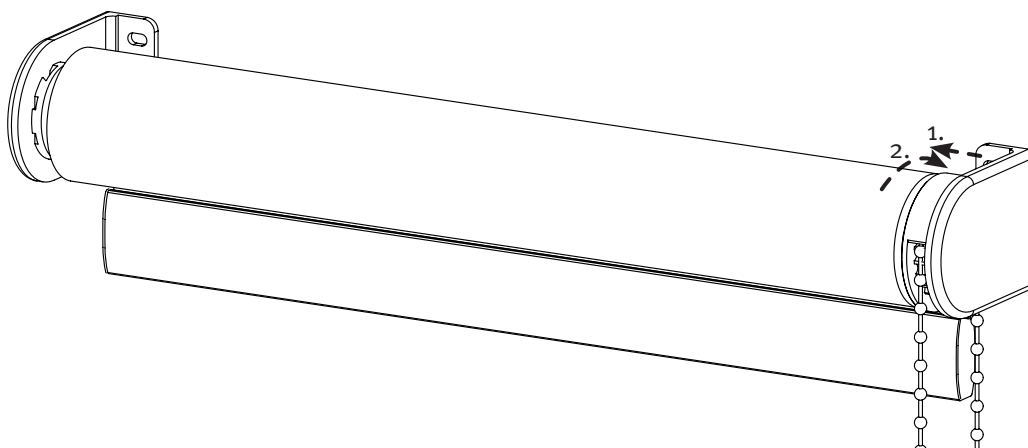
Installation 2



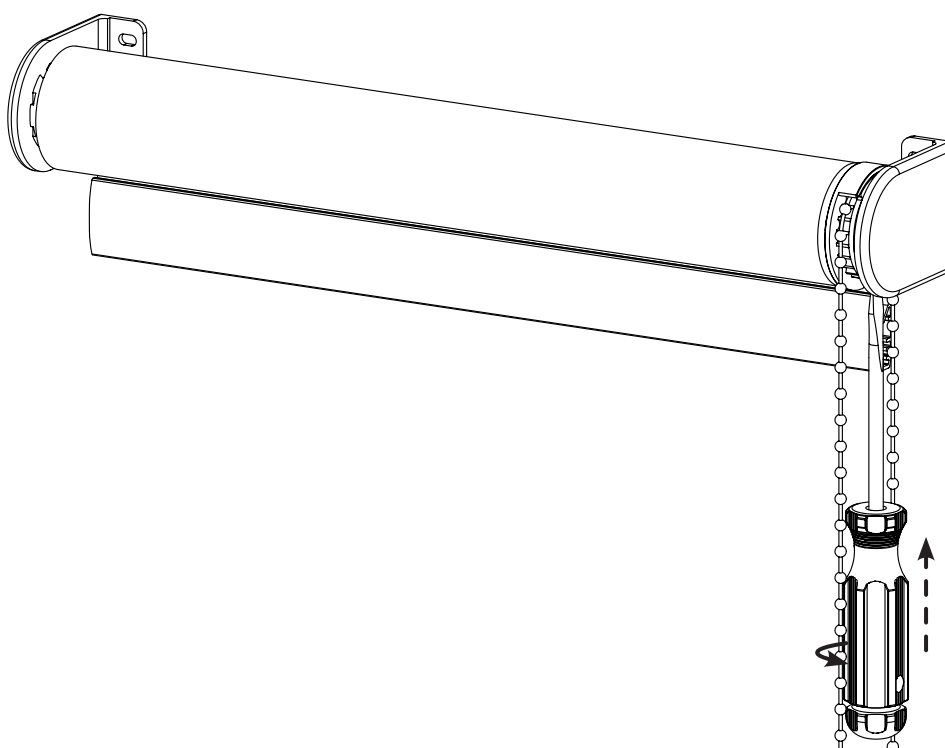


Releasing the system

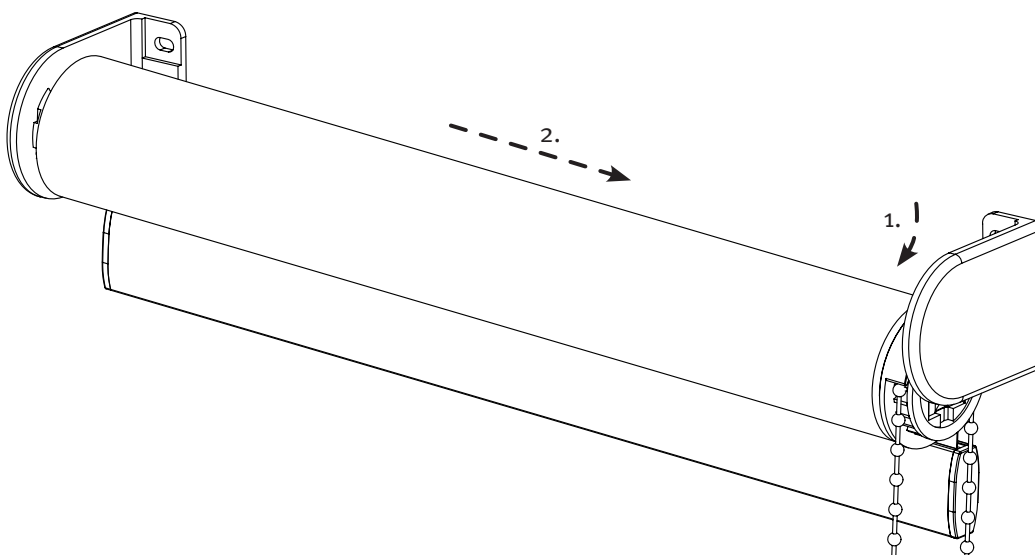
When system is installed with no gap on the contra side (installation 2), first release contra side before releasing the controller side.



5.3K

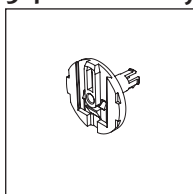


5.3L



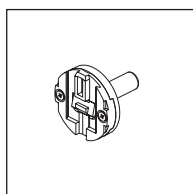
5.3M

5.4 Motorised system

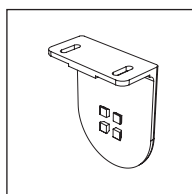


RCU-05
(systems <4Kg.)

0

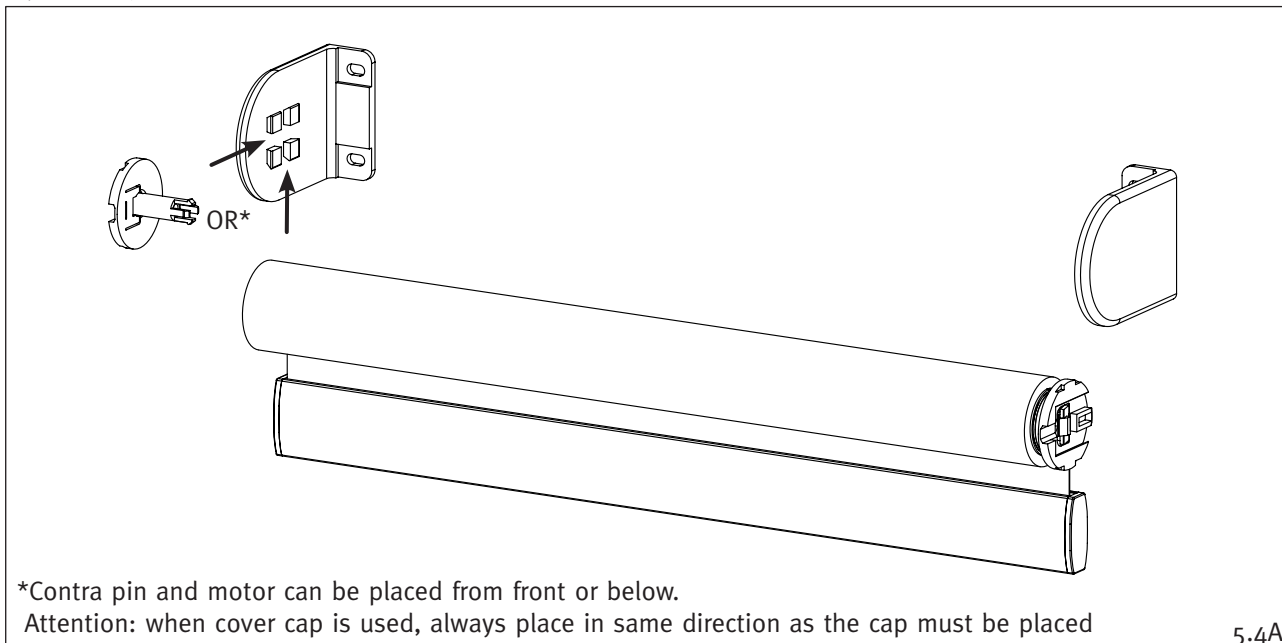


RCU-05-H
(systems <18Kg.)

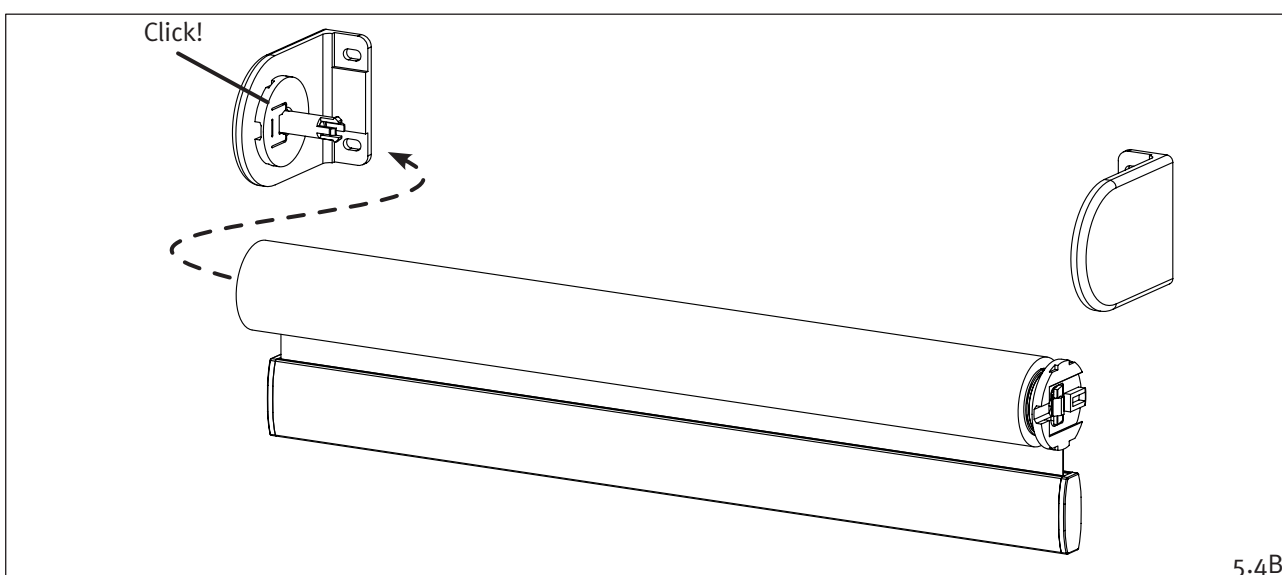


RCU-01/-03
(2x)

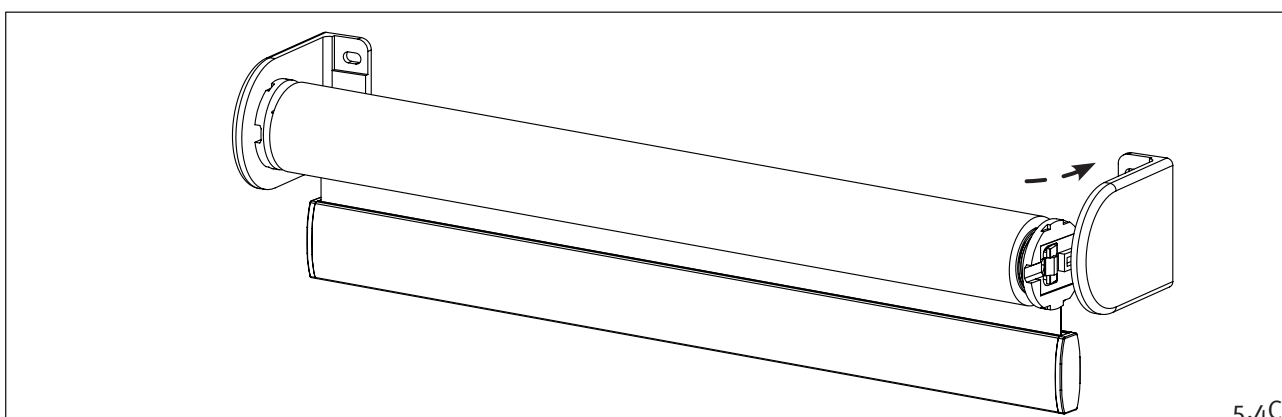
Physical installation only!
For further details and installation instructions
of the motor see manual of motor and remote.



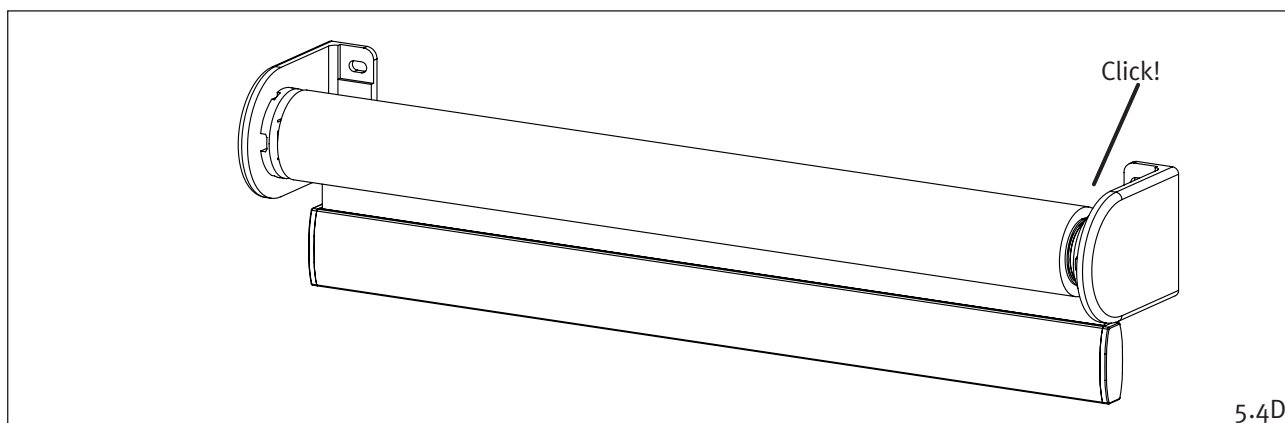
5.4A



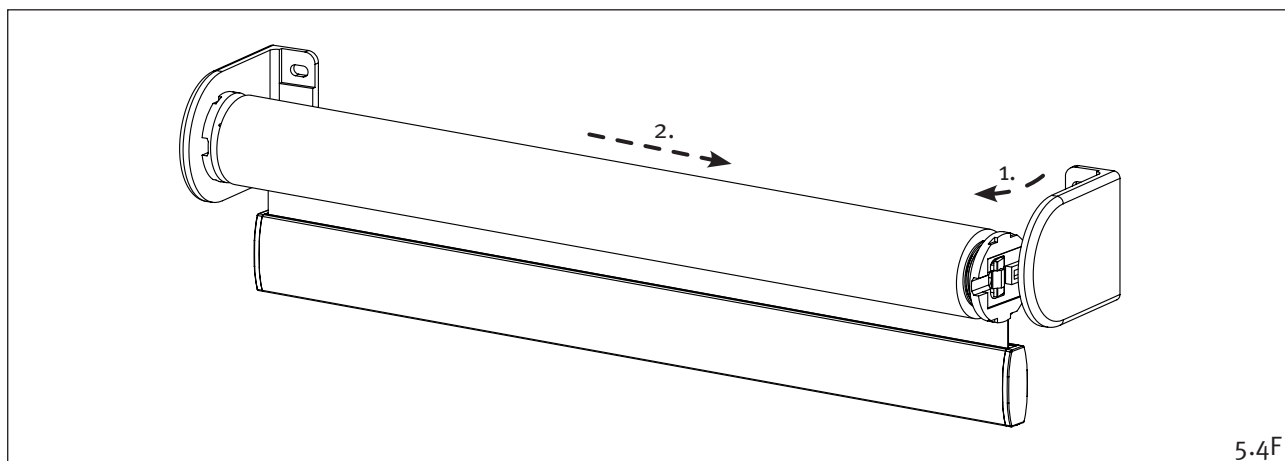
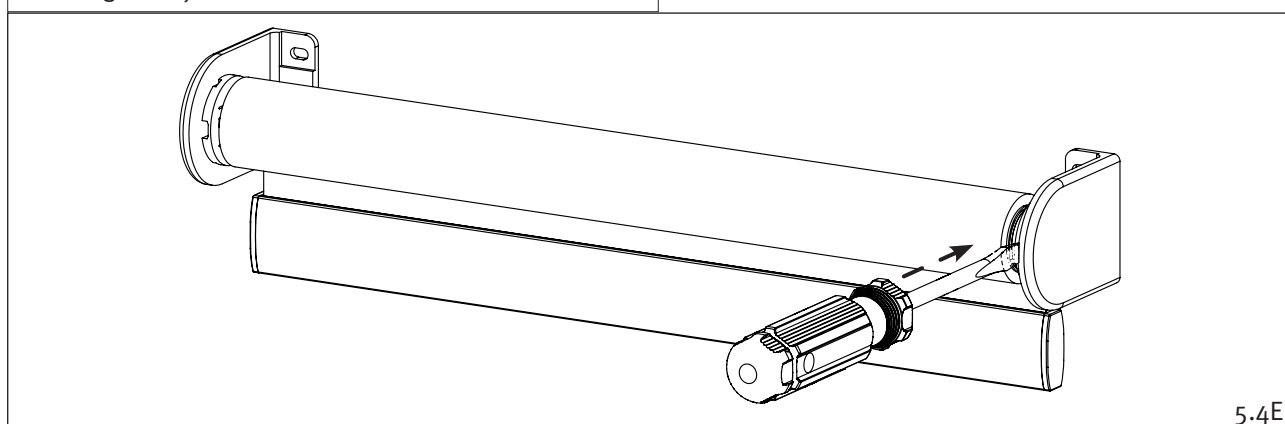
5.4B



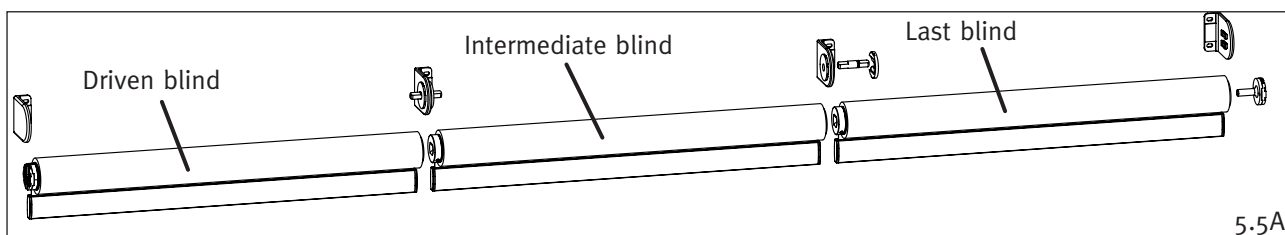
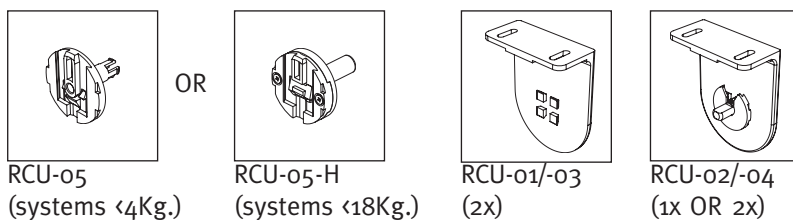
5.4C



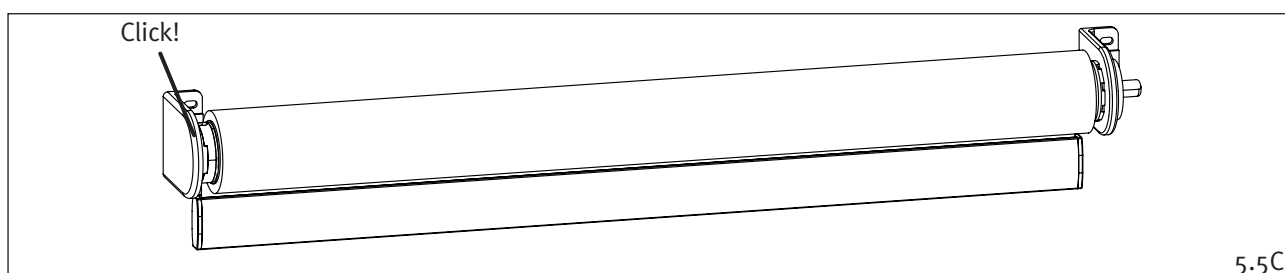
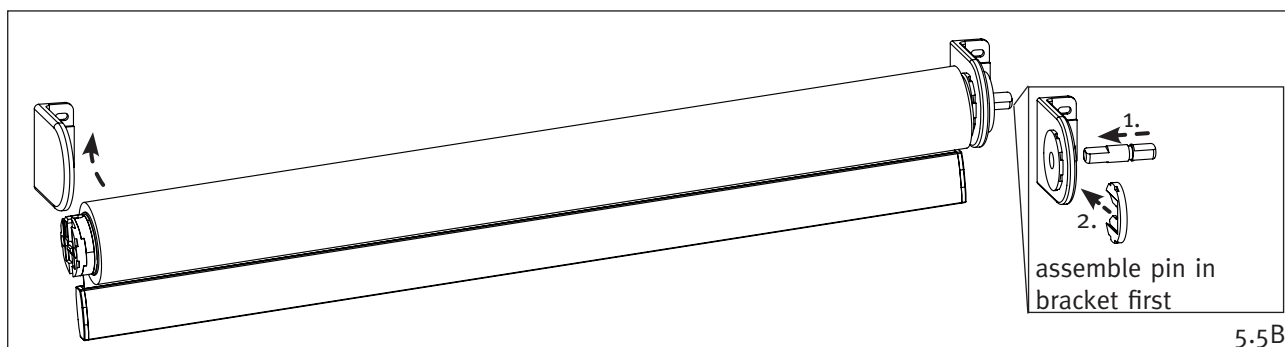
Releasing the system



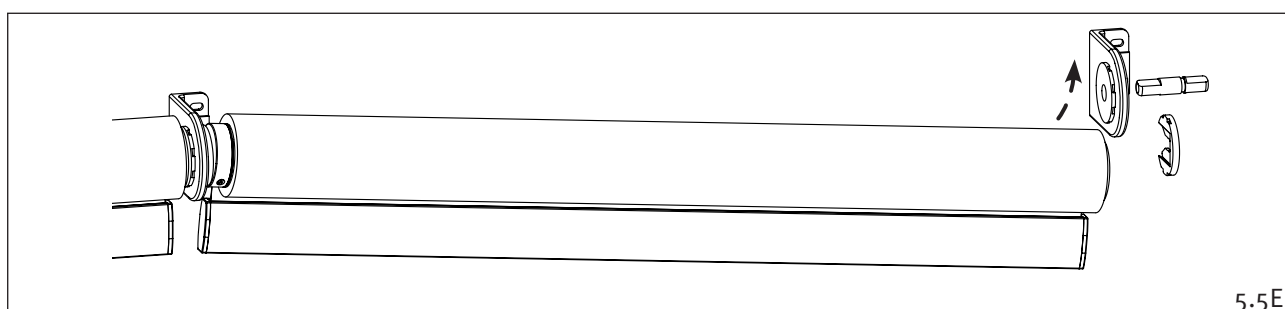
5.5 Intermediate system

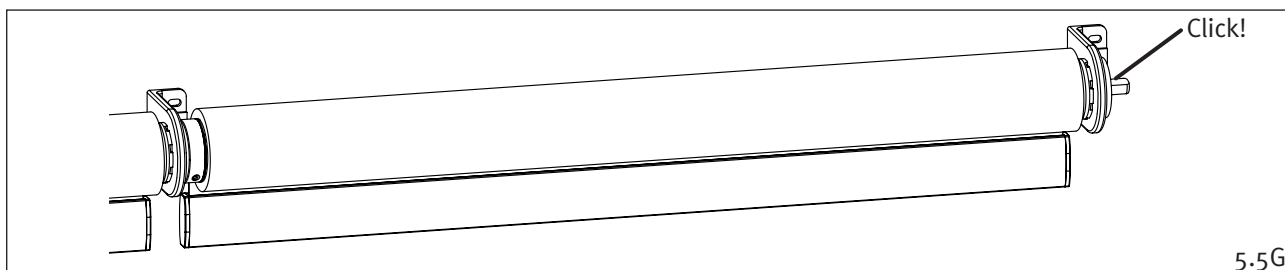
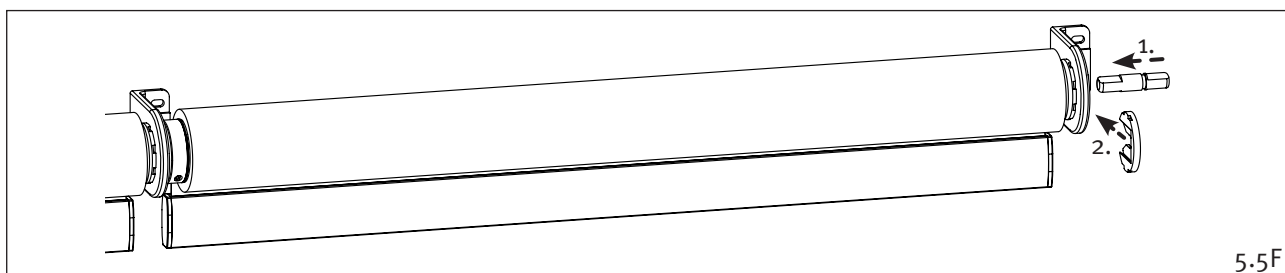


Installing the driven blind

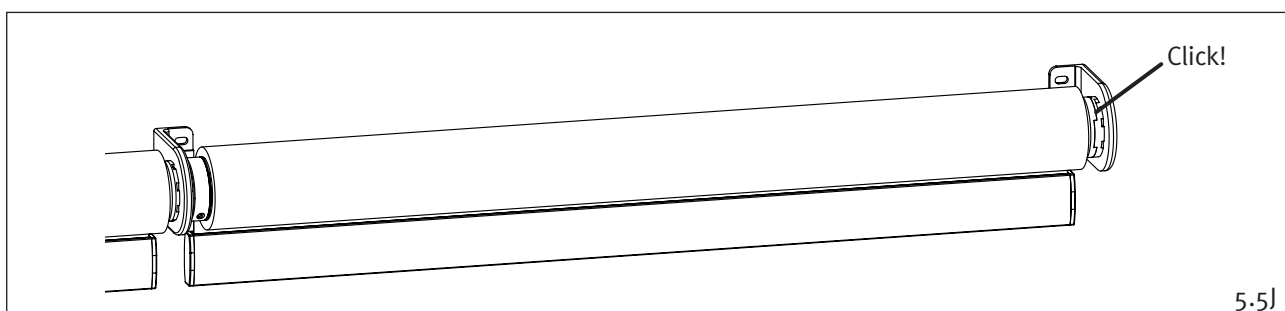


Installing the intermediate blind

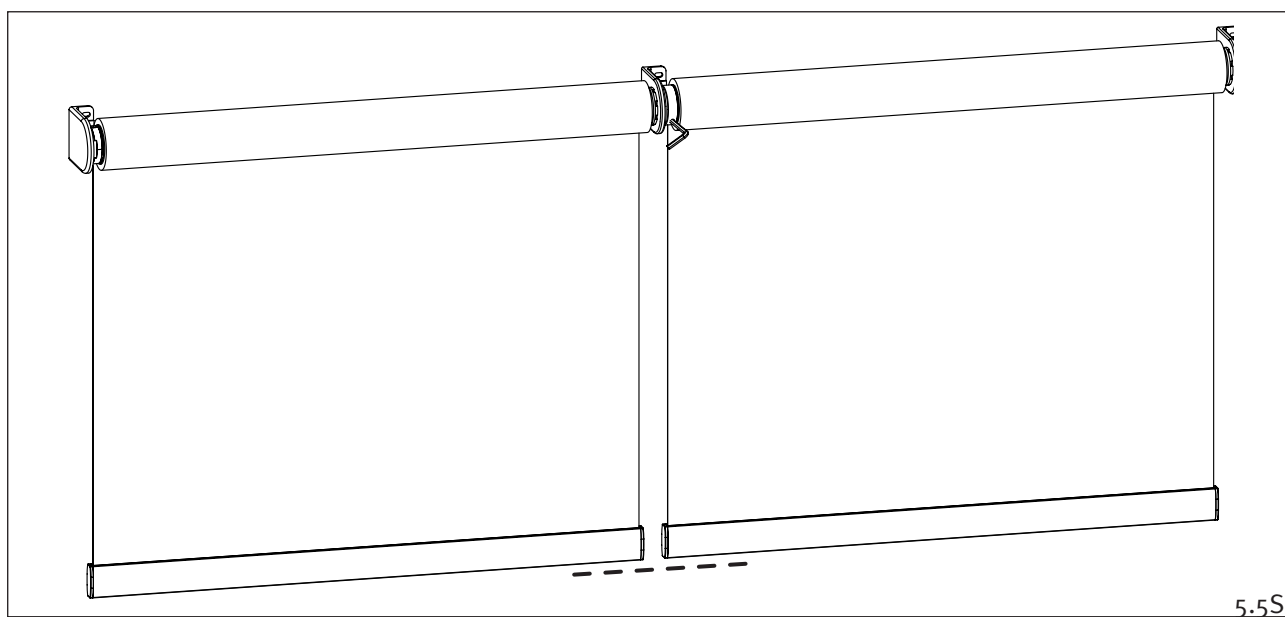
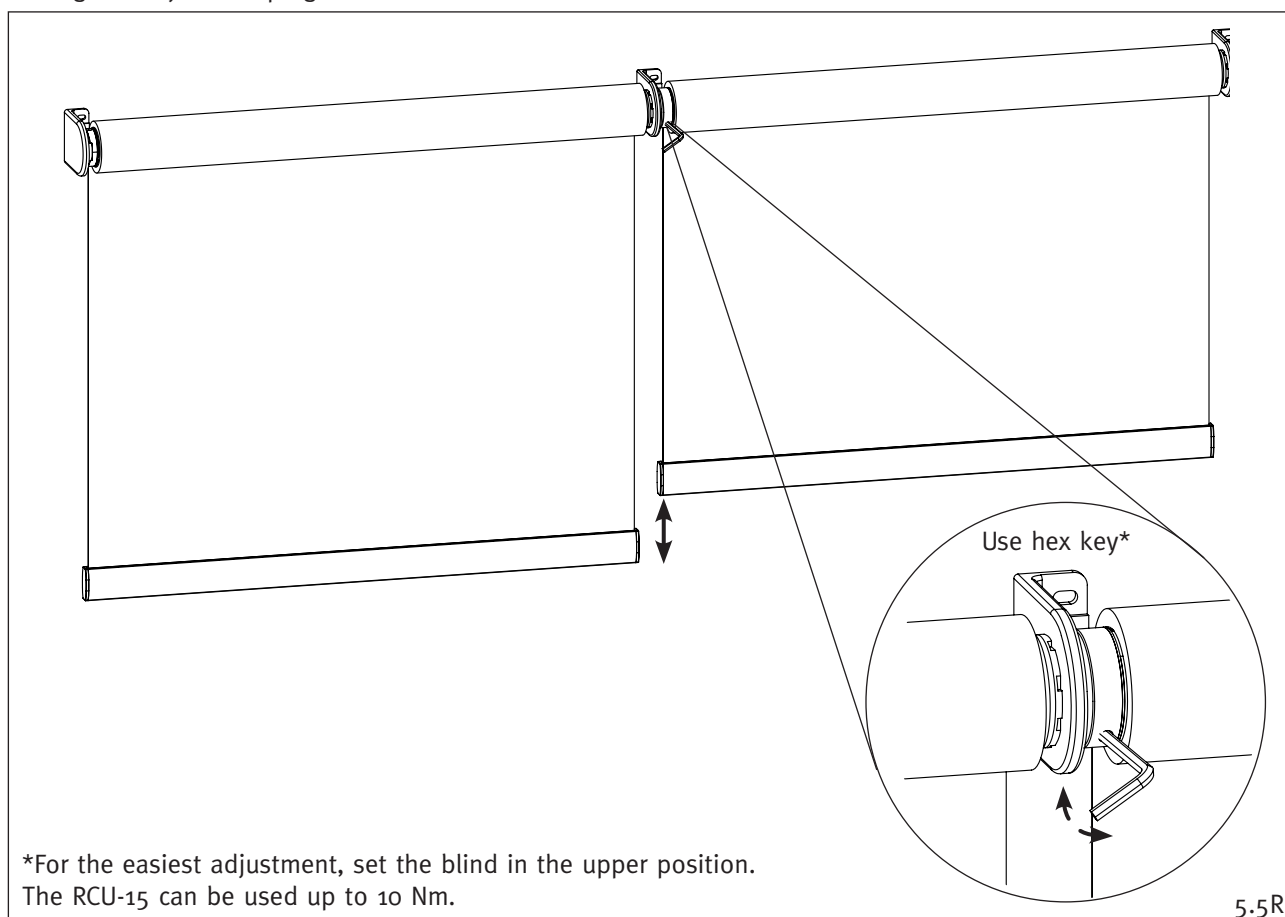




Installing the last blind

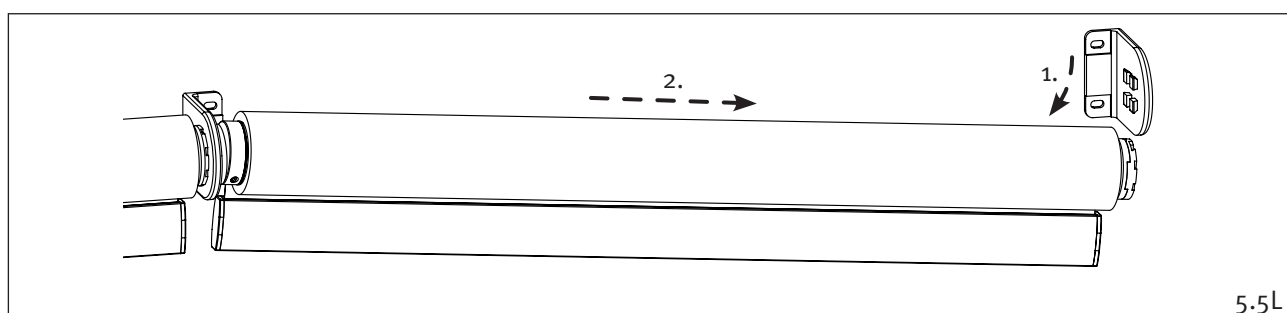
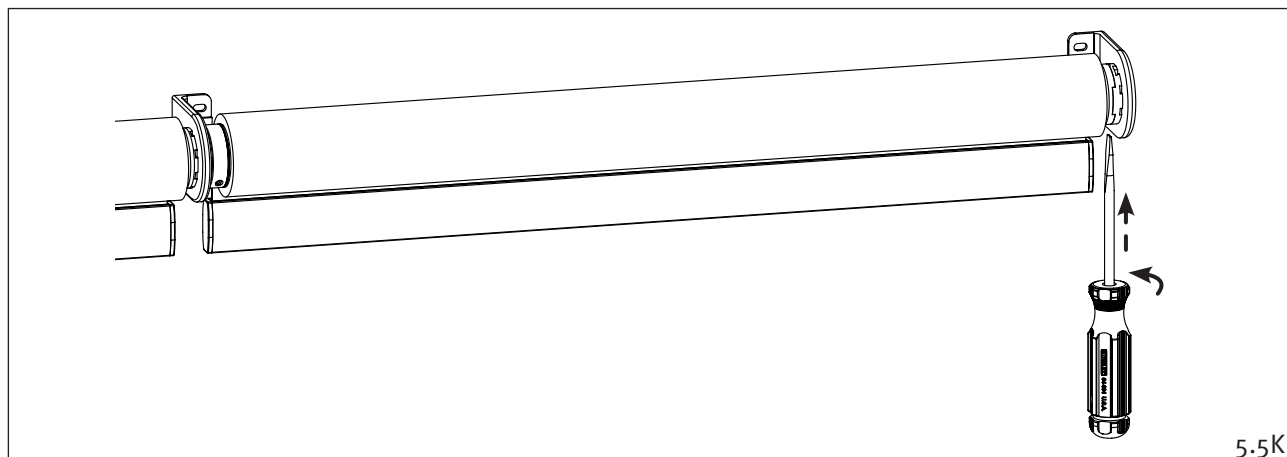


Setting the adjustable plug

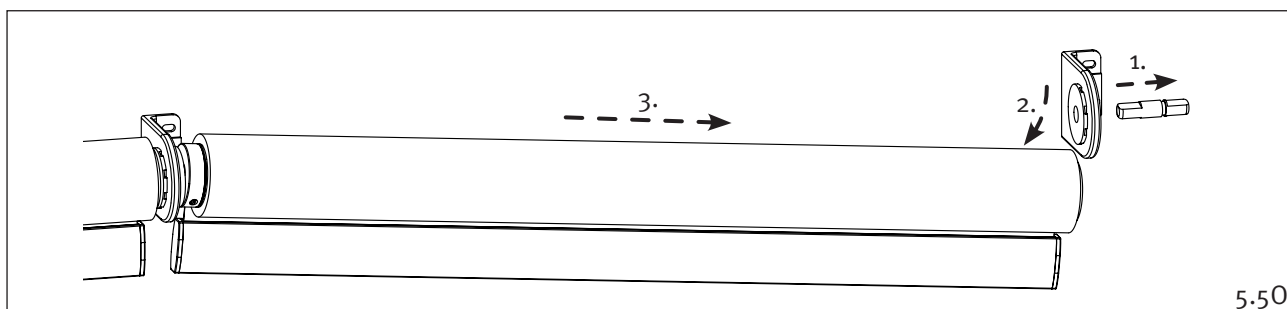
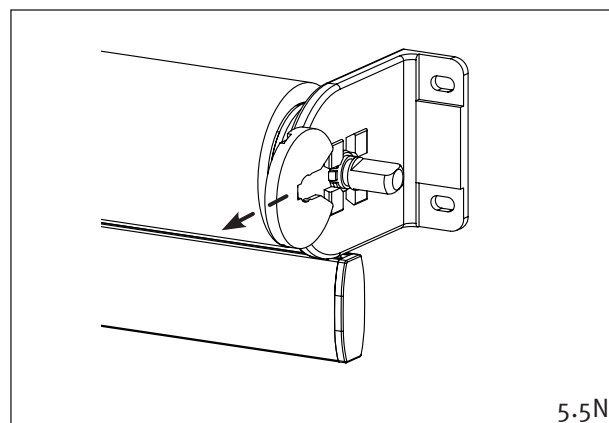
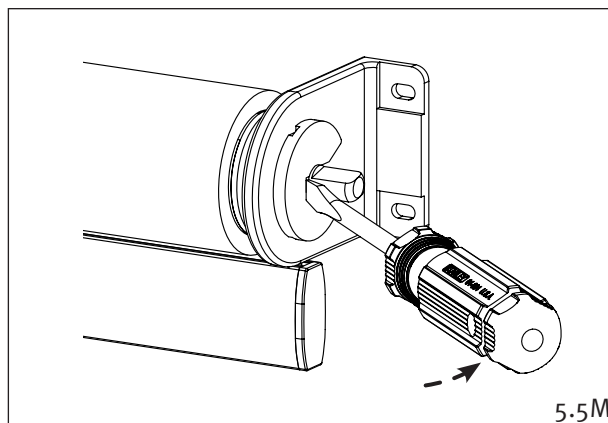


Releasing the system

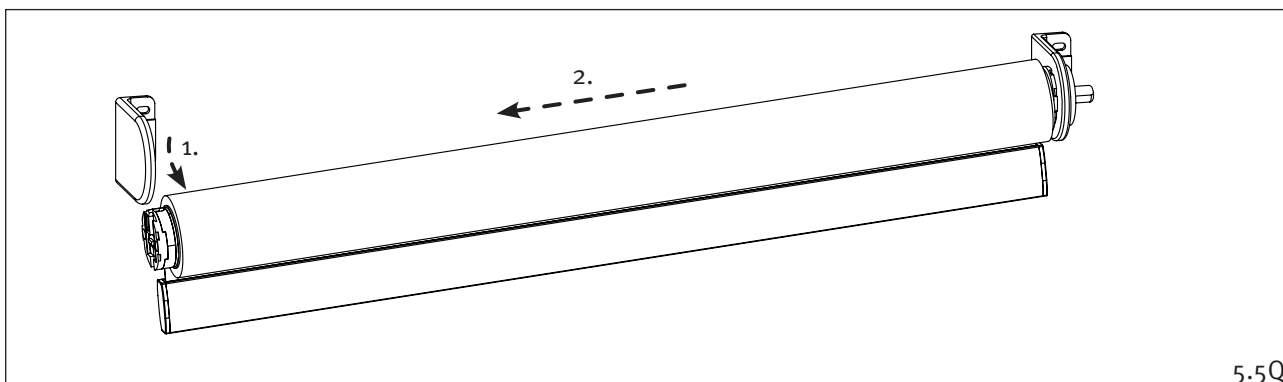
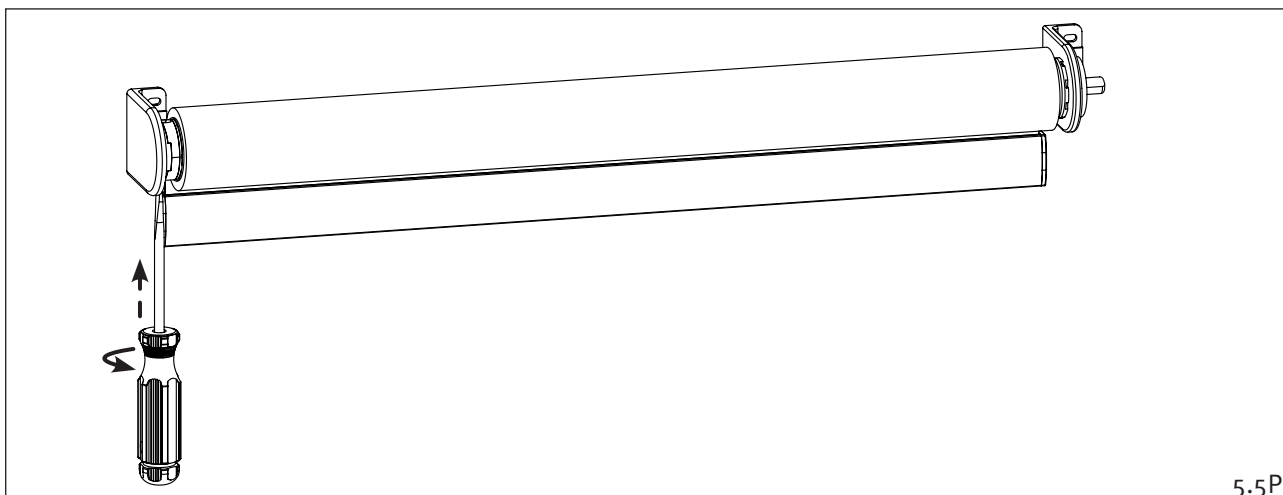
Releasing the last blind



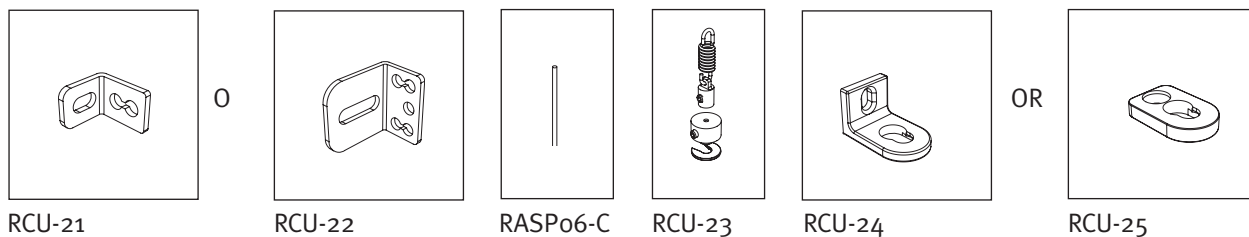
Releasing a intermediate blind



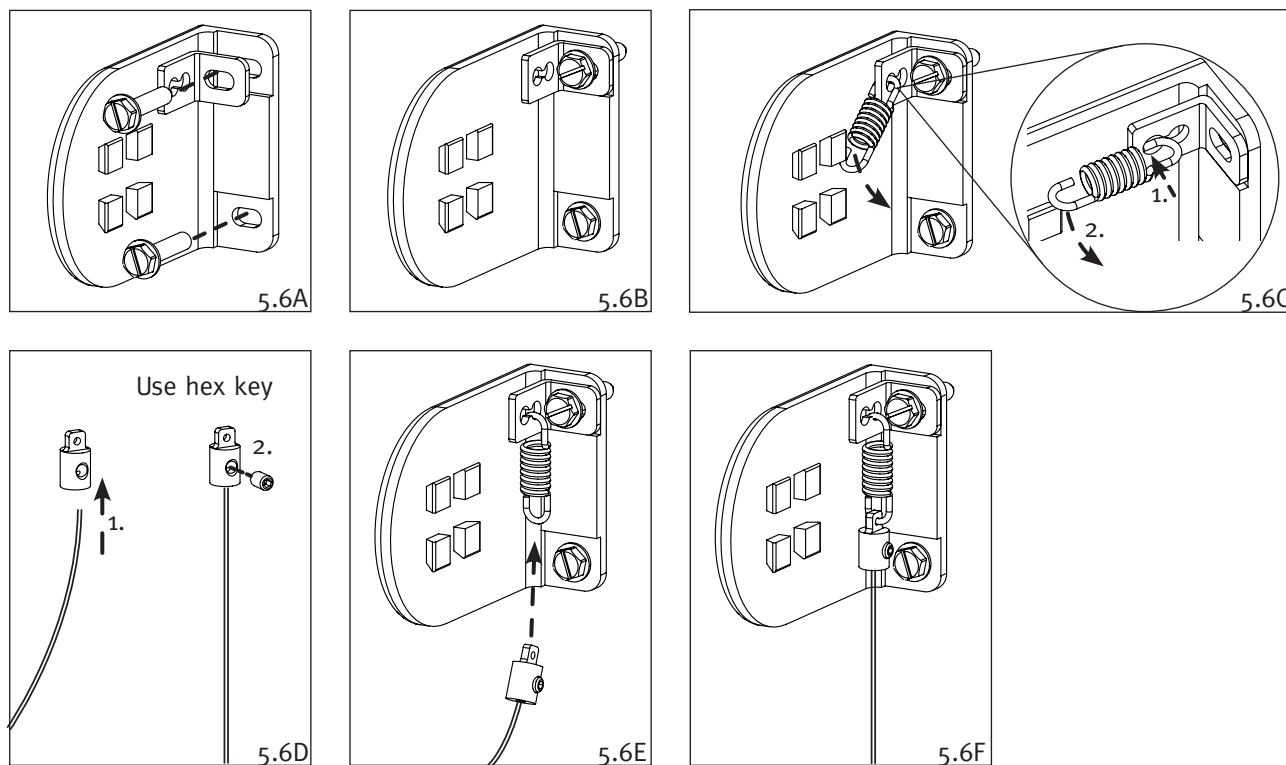
Releasing the driven blind



5.6 Side cable (optional)



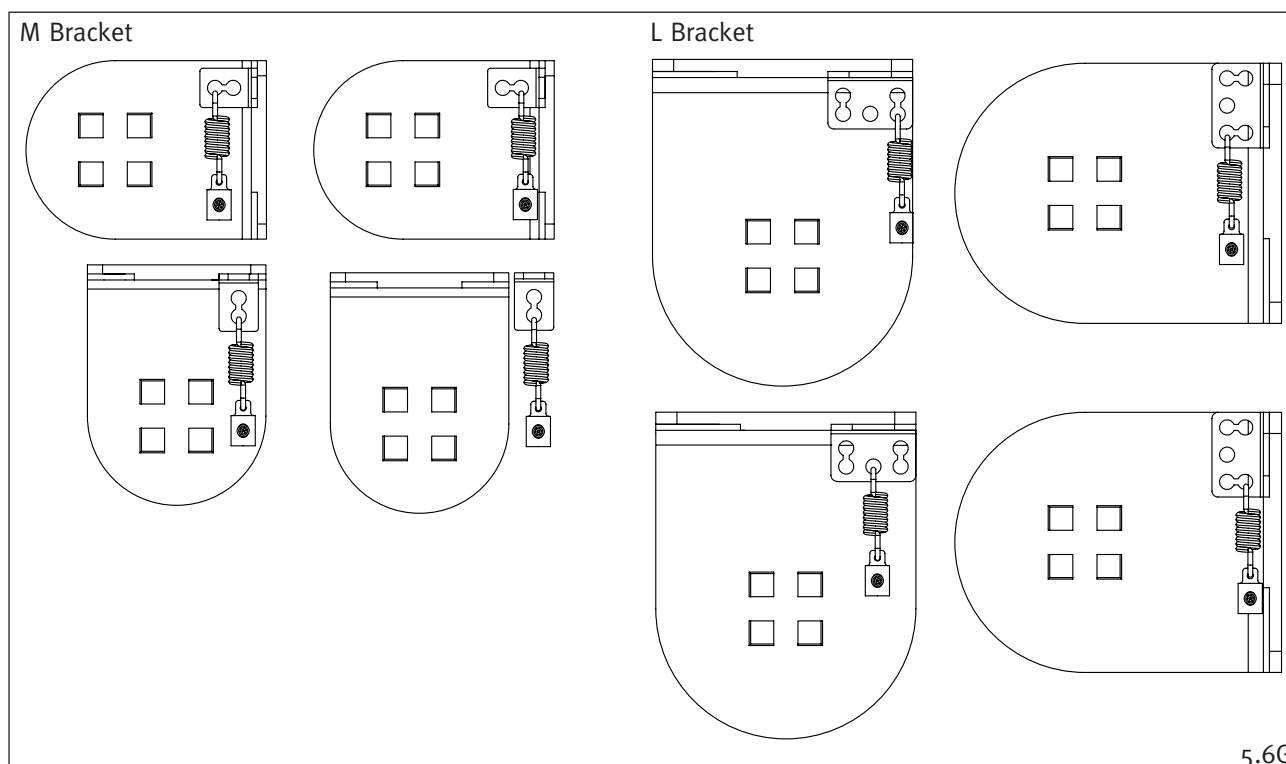
Installing the cable connector



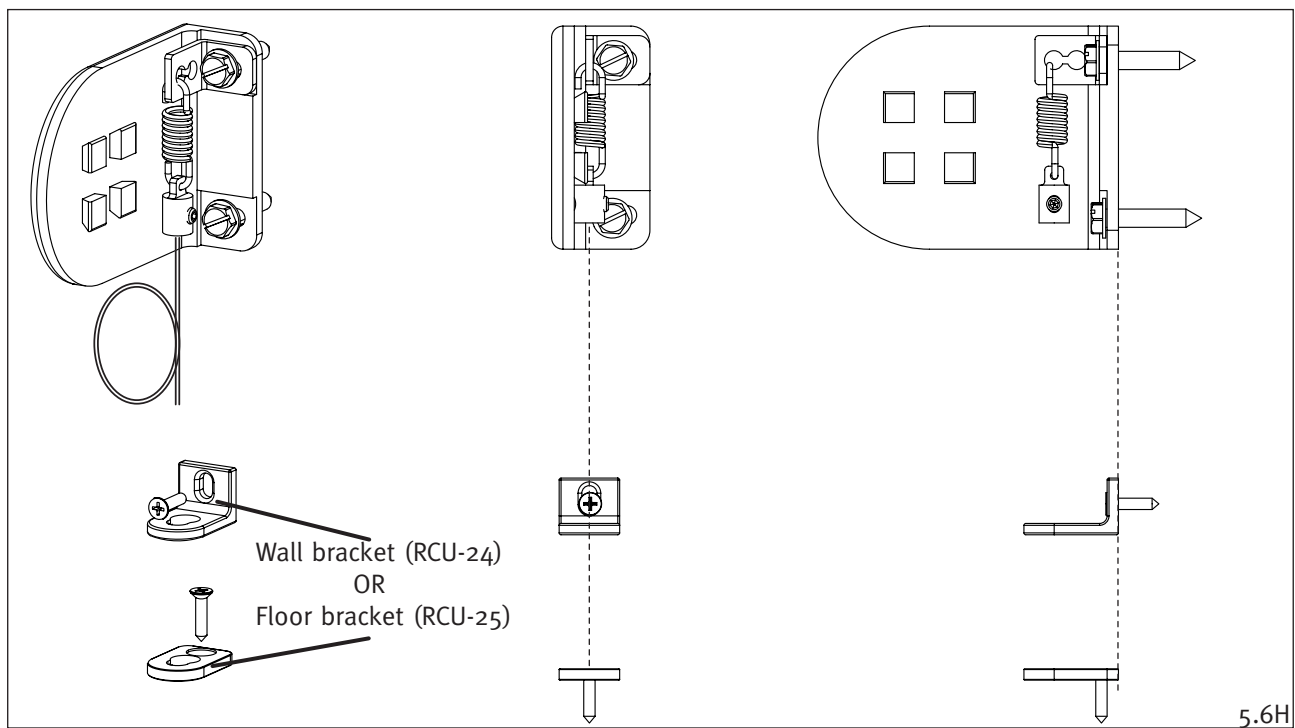
Configurations.

Depending on total outer diameter of the roll and mounting situation.

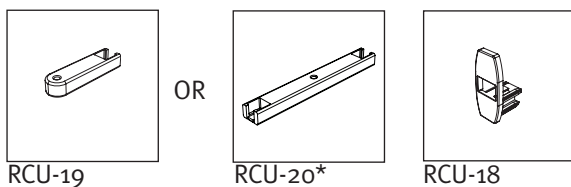
Cable can also be placed separately next to the bracket.



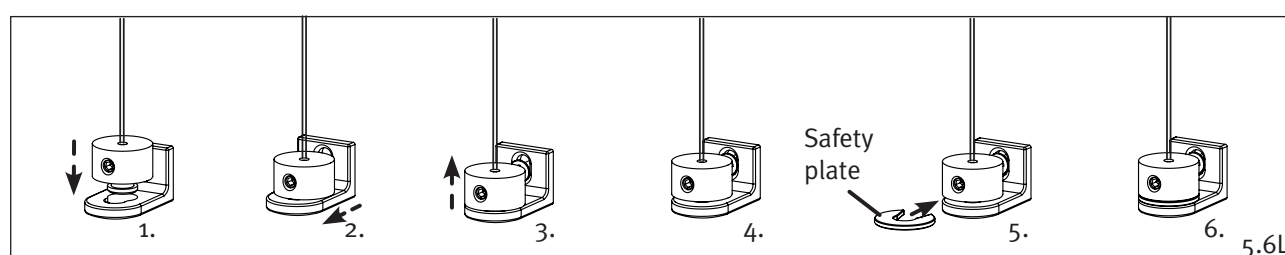
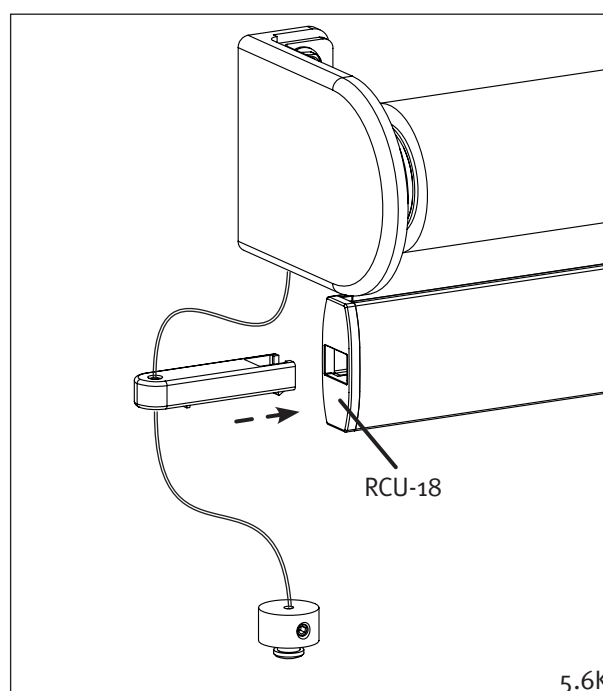
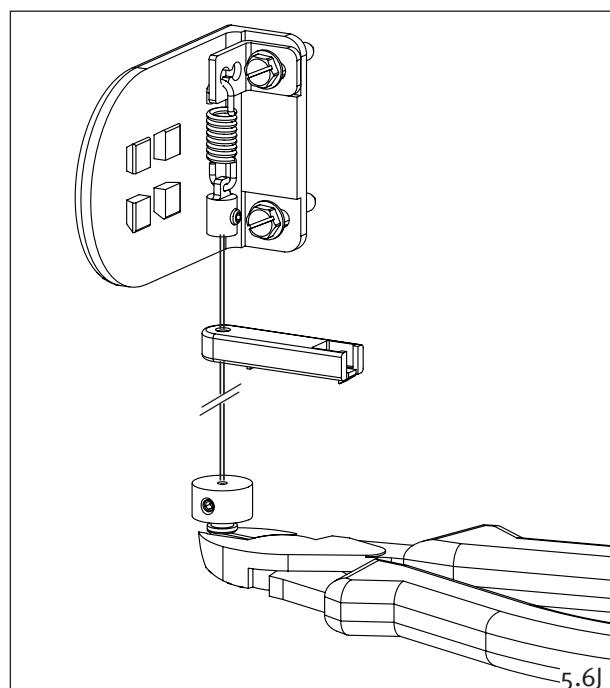
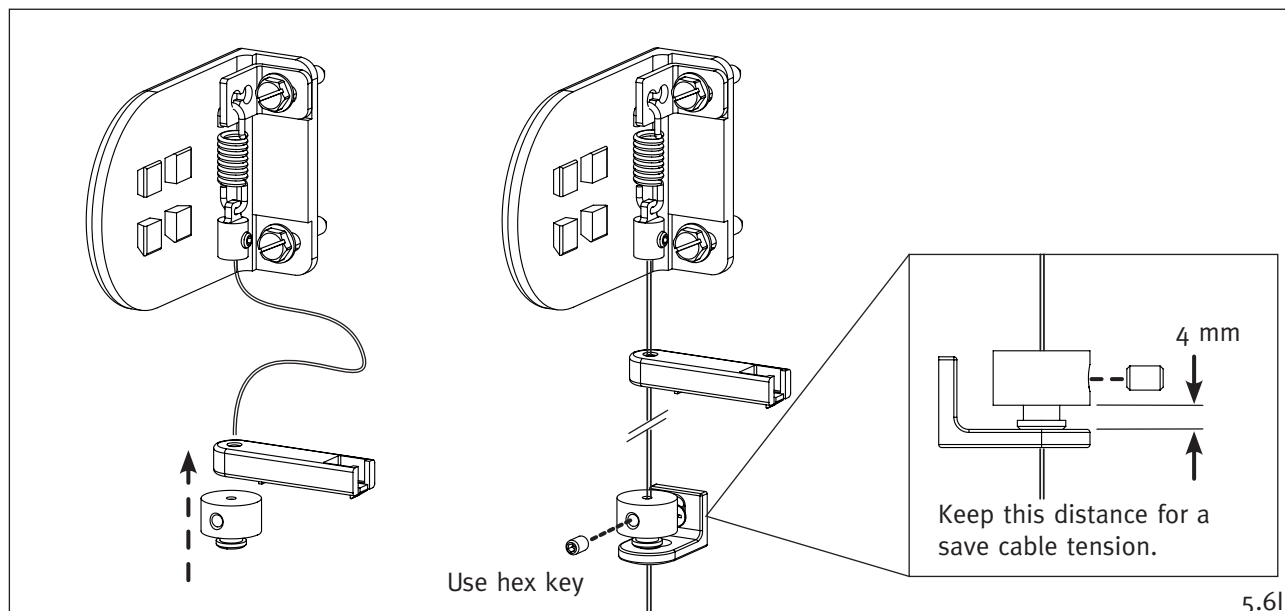
Placing the wall/floor bracket



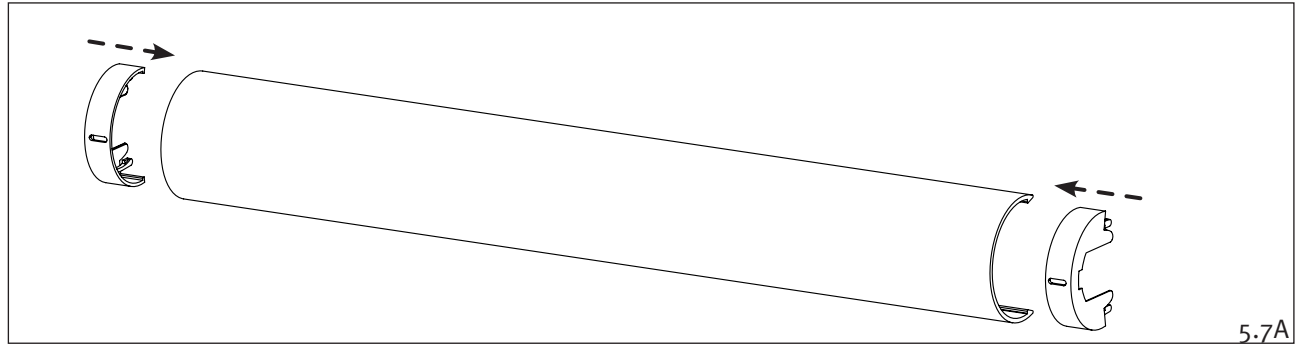
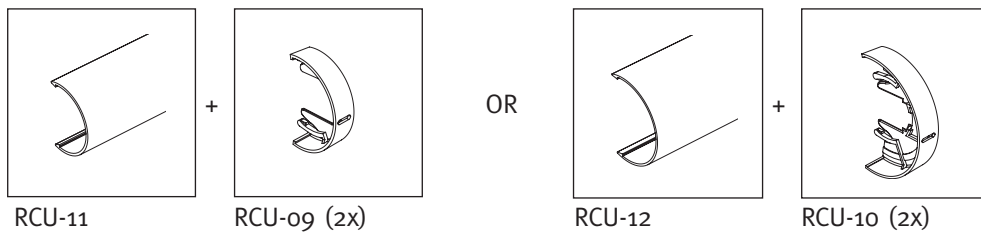
Installing the eyelet



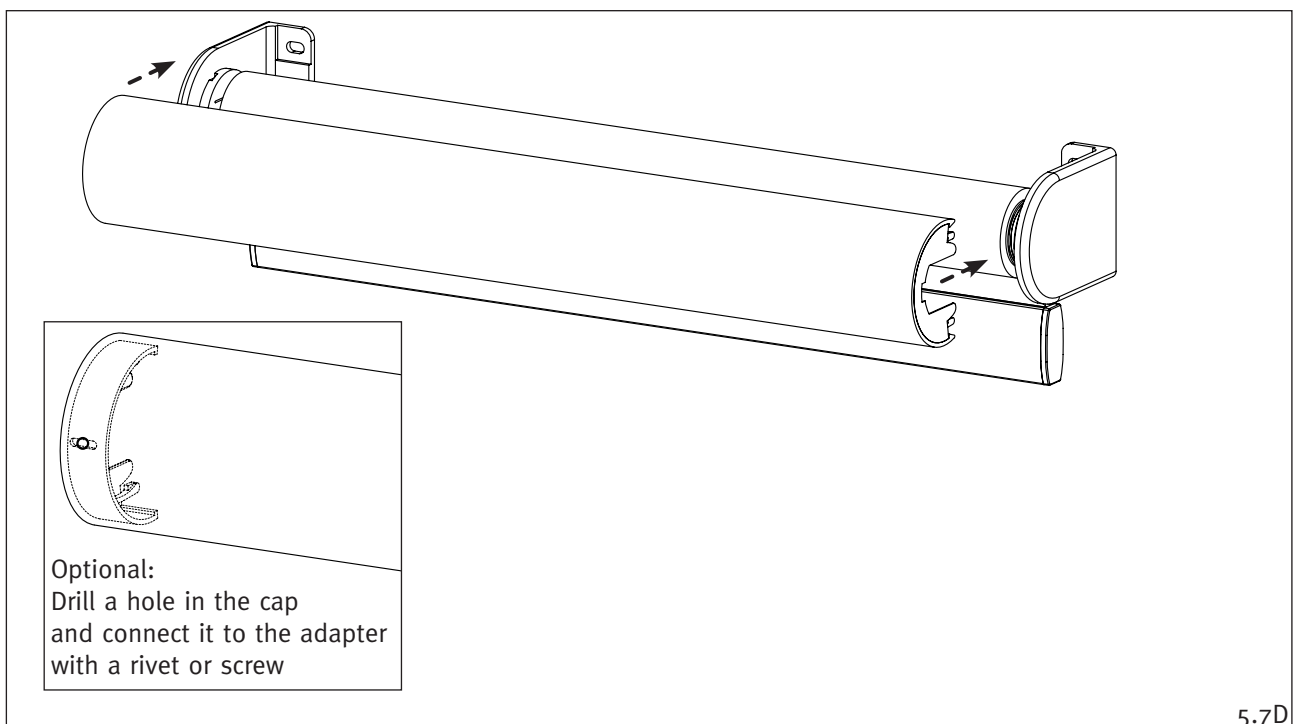
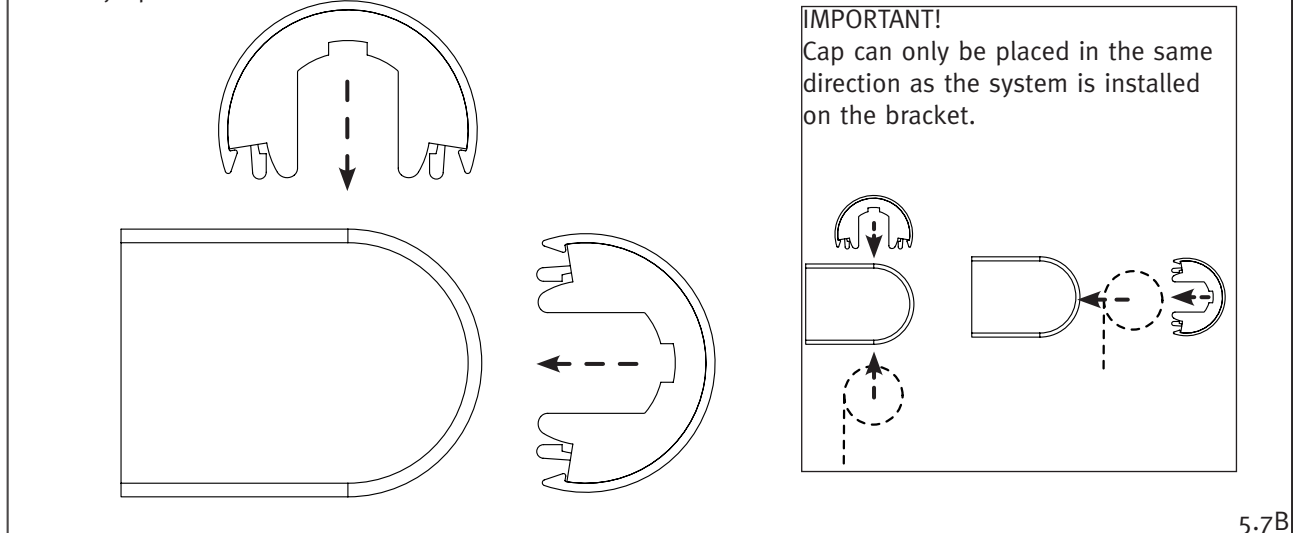
*Can be used with intermediate systems for installing two separate bottomrails on one side cable

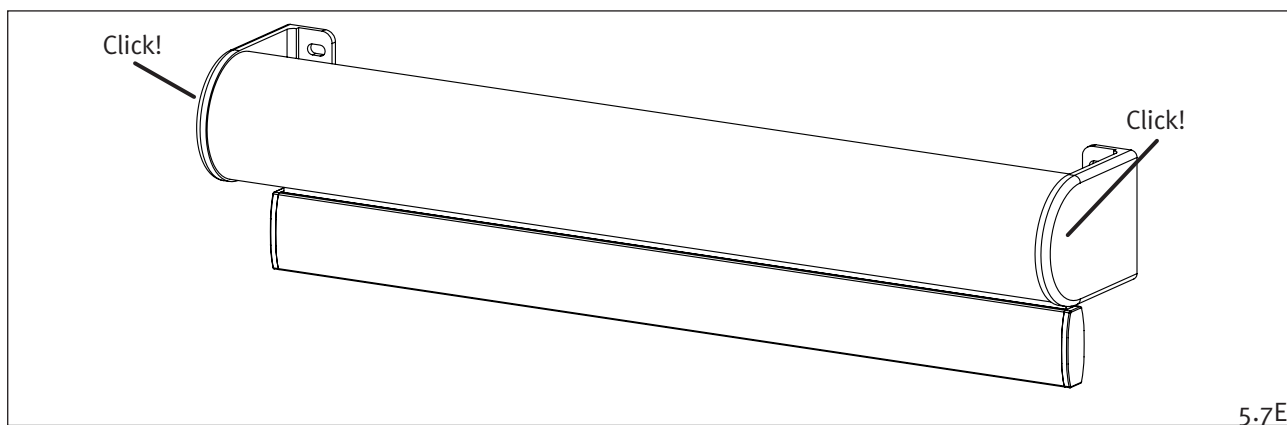


5.7 Cover cap (optional)



Assembly options





6. Parts list

						
RT-25-580	RT-28-580	RTU-30	RTU-35	RTU-42	RTU-50	RTU-65
						
RCU-34-..	RCU-35-..	RCU-01-..	RCU-03-..	RCU-02-..	RCU-04-..	RTU-80
						
RCP	RCP-42-..	RB-SC	RCSA-410-L	RCSA-410-R	RCSA-650-L	RCSA-650-R
						
RC25../RC28..	RC2504-..	RC4203-..	RCU-37	RCU-38	RCU-39	RCU-16
						
RCU-40	RCU-41	RCU-28	RCU-27	RCU-15		
						
RCU-36-..	RCU-05	RCU-05-H	RCU-06	RBR-F-S-S-AH	RCU-07	RCU-08
						
RC28-A	RC30-A	RCU-13	RCU-14	RCU-13-ABC	RCU-14-ABC	RASP-06-C
						
RCU-09	RCU-10	RCU-11	RCU-12	RCU-26-..	RCU-17	RCU-18
						
RCU-19	RCU-20	RCU-21	RCU-22	RCU-23	RCU-24	RCU-25
						
ABC-05	ABC-06		ABC-07		ABC-08	