



ELEMENT ***eRSC70*** Reference Manual



ABOUT THESE INSTRUCTIONS

About These Instructions

The following instructions include text sections, but also an illustrated section showing the main installation steps. The illustrated section can be found in section installation guide of this document.

These instructions are **original instructions** as described in the EC Directive 2006/42/EC. They contain important information regarding the product. Please read and follow the instructions attentively. Pay particular attention to all safety and warning notices.

Keep these instructions in a safe place for further reference!

Warnings used

The general warning symbol indicates a danger  that can lead to injury or death. In the text, the general warning symbol will be used with the caution levels described below.



WARNING

Indicates a potentially hazardous situation which, If not avoided, could result in death or serious injuries.

NOTICE

Indicates a potentially hazardous situation which, If not avoided, could result in damage or destruction of the product.

SAFETY INSTRUCTIONS

Intended use

- This hardware kit has been designed for private and residential use only.

General safety instructions

- The field of application for this residential system is explained in EN 13241-1.
- When the system is installed, attention must be paid to potential hazards as defined in EN 12604 and EN 12453.
- The door installer must ensure that the installation complies with the respective national regulations.
- Installing, maintenance, repair and dismantling of the residential system may only be carried out by trained and qualified person.
- In case of failure (sluggish operation or other malfunctions), a qualified door installer must be appointed immediately for the inspection and repair of the door.
- Before the door is put into service, it must be tested to make sure that it is easy to operate manually, mechanically sound, in perfect working order and also correctly balanced. (EN 12604).
- This manual describes the assembly, use and maintenance of the CANIMEX residential system eRSC; this may be completed by others manuals (example: spring break device)
- After installation make sure that the CE marking label has been completed and attached.
- Installation users manual should be handed to the end user.
- This manual is subject to changes without written notice

APPLICATION RANGE

This hardware set has been designed for the following application:

- **Maximum width:** **5500 mm**
- **Maximum height:** **3000 mm**
- **Maximum door weight is 184 kg. Each spring break device is approved to 125 kg.**
- **Headroom:**
 - **eRSC70 Rear Mount**
 - **Manually operated:** **70 mm min.**
 - **Motor Operated:** **100 mm min.**
- **Sideroom: 90 mm min.**

NOTICE

Damage due to improper fasteners

The fixing fasteners required to install the track set to the building are not included in this set. It is the responsibility of the qualified door installer to make sure that the building structure (stone, concrete, steel, wood, etc.) is strong enough to ensure a reliable construction. Otherwise, this may result in damage when the door is operated. Select proper fasteners.

INSTALLATION GUIDE



WARNING

Danger of injury as the result of structural modifications

Modifying or removing functional parts may put important safety components out of action. Uncontrolled door movement could occur and persons or objects may be trapped and injured as a result.

- Do not modify or remove any functional parts.
- Do not attach any additional parts. The torsion springs are precisely matched to the door leaf weight. Additional components may overload the springs.
- If equipping the door with a motor operator, pay attention to the instructions provided by the manufacturers of the door and a motor operator. Only use the original connections of the door manufacturer!

Before installing the hardware set, the door opening and the building floor must be completely finished.

Observe the following during installation:

- Some parts can have sharp edges. Use protective gloves.
- Never use the sectional door in case of visual damage on the safety devices.
- Make sure you can always perform your work in a stable environment.
- Make sure there is enough light.
- When performing assembly or maintenance, always wear at least gloves and safety boots.
- When drilling or cutting always wear safety goggles.
- Only use appropriate tools, especially when applying tension to torsion springs.
- Ensure adequate water run-off in the area of the bottom seal and the frame parts.

To ensure simple and secure assembly, please follow the work steps listed in the illustrated section.



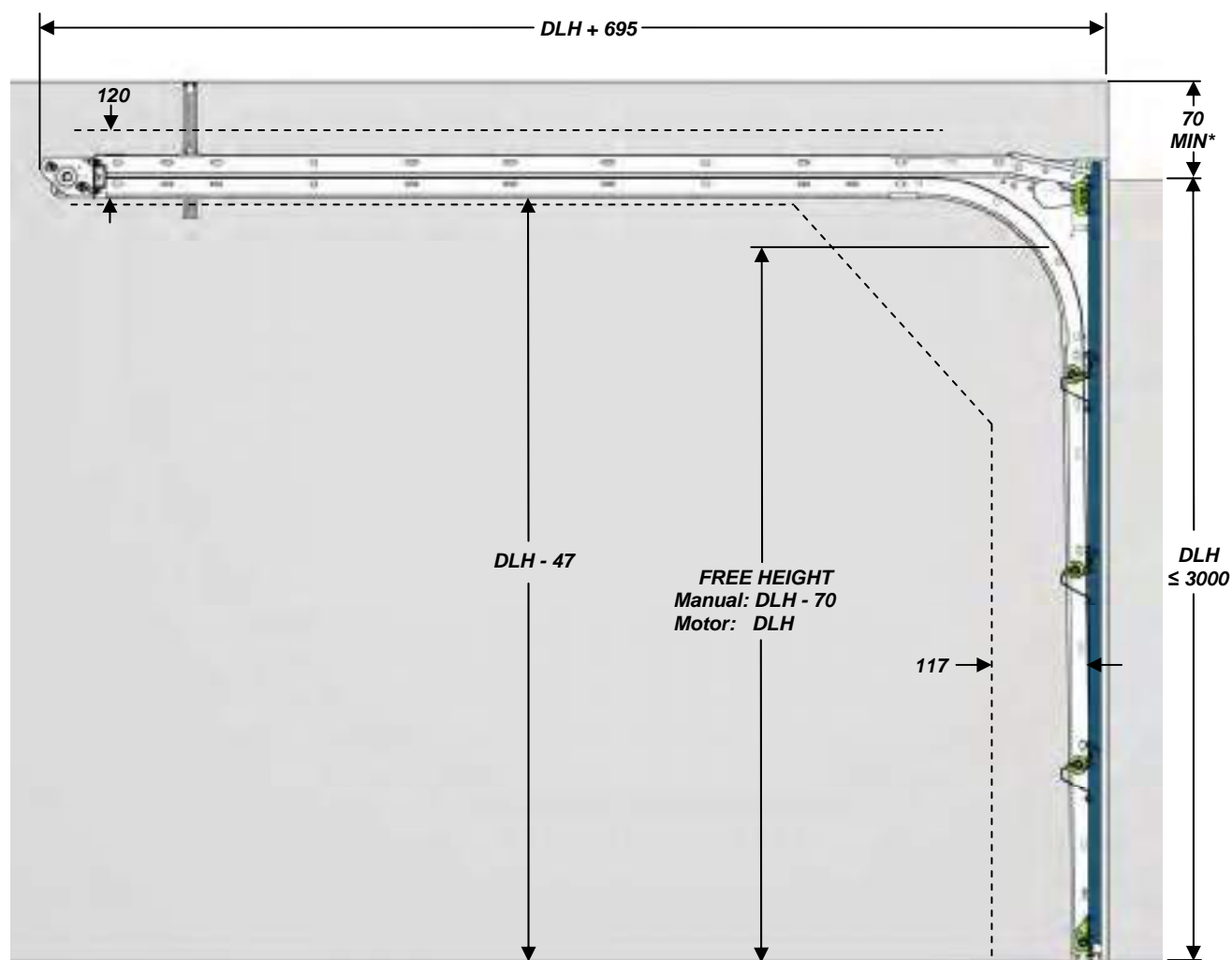
WARNING

Danger due to high torque

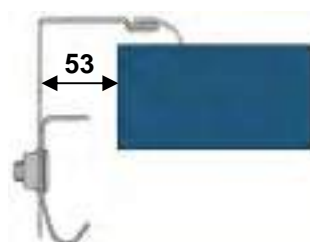
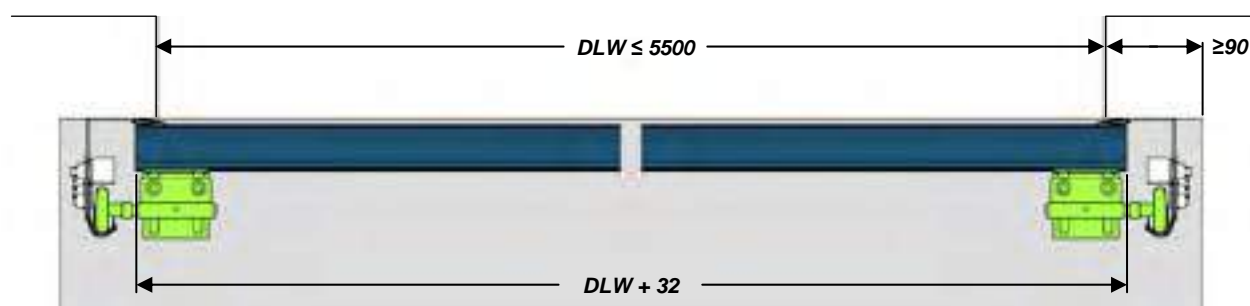
Springs are under high torque stress and may discharge high forces if they are not secured during tensioning. Fix the door leaf to prevent movement before tensioning the springs.

When the springs are tensioned correctly, the moving door leaf has a slight tendency to pull upwards.

Each time the door is maintained, the tension of the springs should be checked and, if necessary, subsequently re-adjusted.

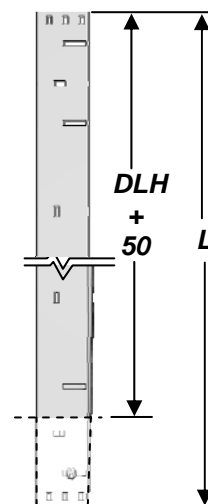
General dimensional requirements:

* 70 MIN MANUAL OPERATION
100 MOTOR OPERATION



A VERTICAL TRACK SET (PAIR)*

Part Number	DLH	L =
198595	2000	2050
198596	2125	2175
198597	2250	2300
198598	2375	2425
198599	2500	2550
198600	2750	2800
198601	3000	3050
* include side seal		

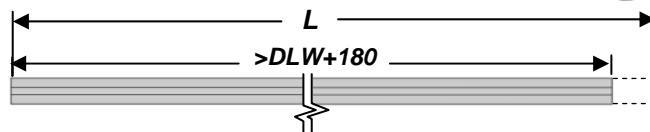
**B REAR MOUNT BEARING PLATE (PAIR)**

Part Number
B1 200096
B2 200000

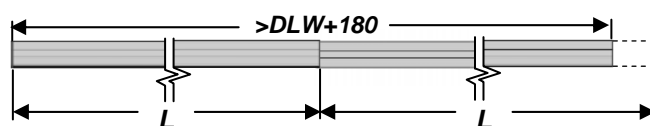
C SHAFT

Part Number	DLW	L =	T =
198264	2375	2555	2
198263	2500	2680	2
198265	5000	2440	3
198291	5000	2710	3
186021	<3000	5850	2
186018	>3000	5850	3

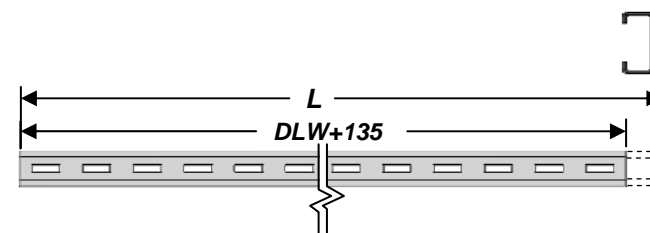
DLW ≤ 3000



DLW > 3000


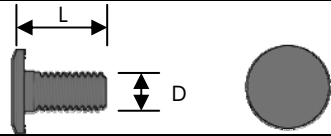

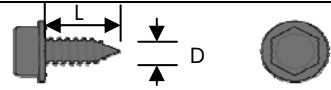


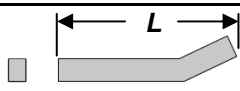
**D DISTANCE BEAM**

Part Number	DLH	L =
203747	2375	2510
203748	2500	2635
203749	...	3000
203750	...	4500
203751	...	6000

**E TRACK PLATE (PAIR)**

Part Number
198611

F FASTENERS

Part Number	D =	L =	
F1			
N/A	N/A	N/A	
F2			
203884	8-1.25	15	
189857	8-1.25	19	
145992	8-1.25	25	
F3			
145994	8-1.25	-	
F4			
190019	6.3	16	
189858	6.3	35	
F5			
N/A	N/A	N/A	
F6			
186121	11	5	
186118	11	10	
F7			
184192	6.4 X 9.5	75mm	

G CURVE

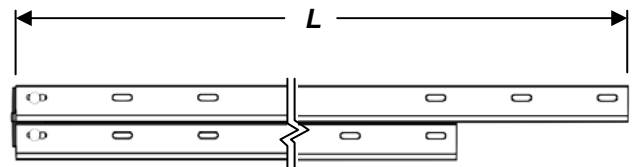
Part Number	RAD
198237	350mm

H COVER

Part Number	Hand
198338	L
198337	R

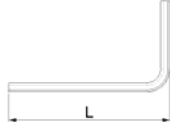
I HORIZONTAL TRACK SET (PAIR)

Part Number	DLH	L =
198602	2000	2315
198605	2125	2440
198606	2250	2565
198607	2375	2690
198608	2500	2815
198609	2750	3065
198610	3000	3315

**K TRACK HANGER**

Part Number
198514

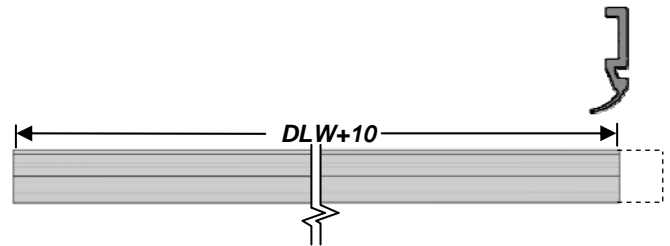
L ROOF HANGER

Part Number	L =	
198512	176mm	
198513	350mm	





M SEALS AND PROFILES

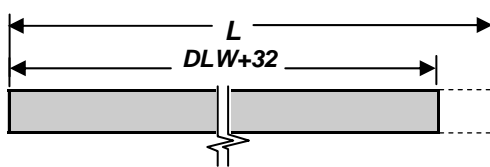
WALL MOUNT TOP SEAL CO-EXTRUDED

Part Number	DLH	L =
198259	2375	2385
198261	2500	2510
198262	5000	5010
199636	...	5850



PANEL MOUNT TOP SEAL, BOTTOM SEAL AND PROFILE

Part Number	Type	L =	Desc.
194319		5850	Aluminium profile
189221		5850	Aluminium profile
189218		50m	Bottom seal
189219		50m	Top seal



N BEARING

Part Number
137511

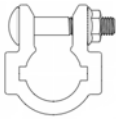
O CABLE DRUMS

Part Number	DLH	Hand
194949	≤2400	L
194950	≤2400	R
194332	>2400	L
194434	>2400	R

P SPRING BREAK DEVICE

Part Number	Hand
199021	L
199022	R

Q COUPLINGS

Part Number	Type	L =	
195765	Aluminium	75	

R REAR MOUNT BOTTOM BRACKETS

Part Number	Type
200099	Steel

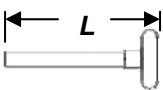
S LIFT CABLE

Part Number	L =	End Type
217672	6m	1XLoop+Thimble
217194	7m	1XLoop+Thimble

T HINGES

Part Number	Type	Panel Brand
194204	Side Hinge	EPCO
169344	Side Hinge	Kingspan/ Tecsedo / Metecno
194196	Side Hinge	Thyssenkrupp
194199	Interm. Hinge	EPCO
193195	Interm. Hinge	Kingspan/ Tecsedo / Metecno
194200	Interm. Hinge	Thyssenkrupp
194201	Tandem Side Hinge	EPCO
193193	Tandem Side Hinge	Kingspan/ Tecsedo / Metecno
194202	Tandem Side Hinge	Thyssenkrupp

U ROLLERS

Part Number	L =	
183875	121	
196232	106	

V TOP BRACKET

Part Number	Type
194195	Adjustable
188646	Non-Adjustable

W REAR MOUNT PULLEY

Part Number
200097

X REINFORCING BRACKET

Part Number	Hand
201487	LH
201486	RH

Y REAR MOUNT SADDLE

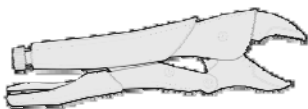
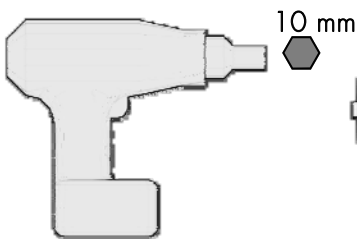
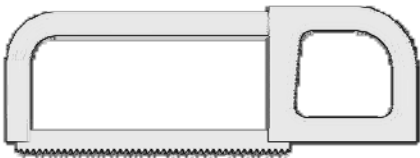
Part Number
200095

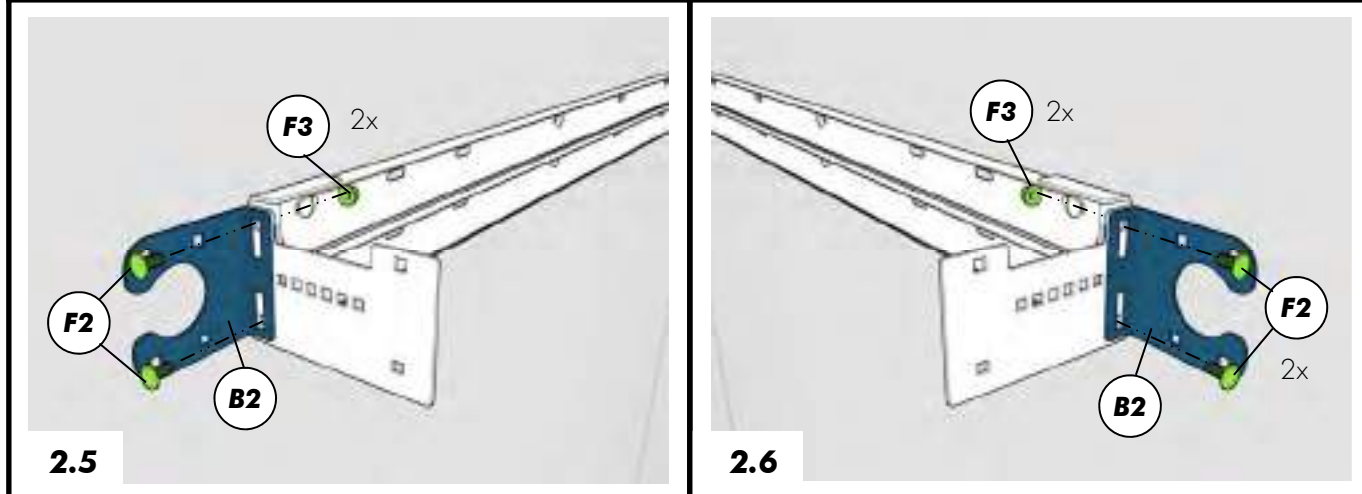
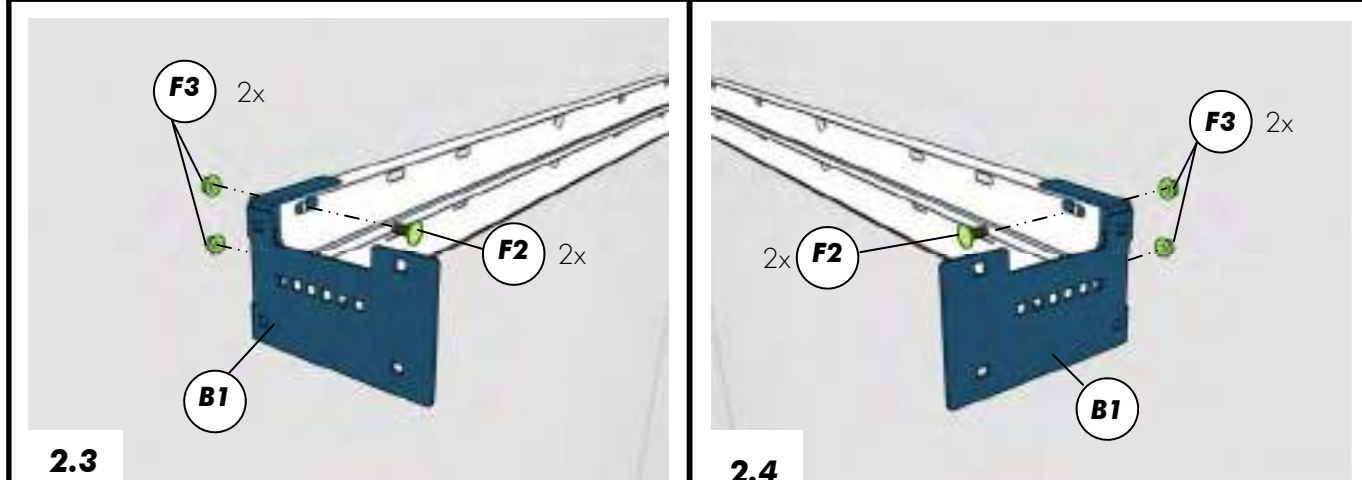
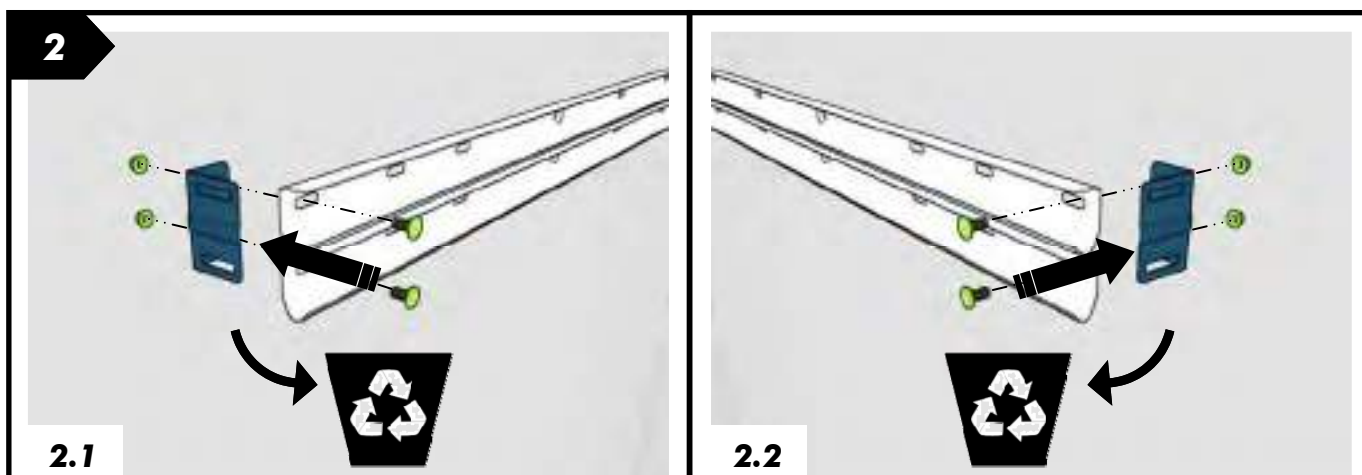
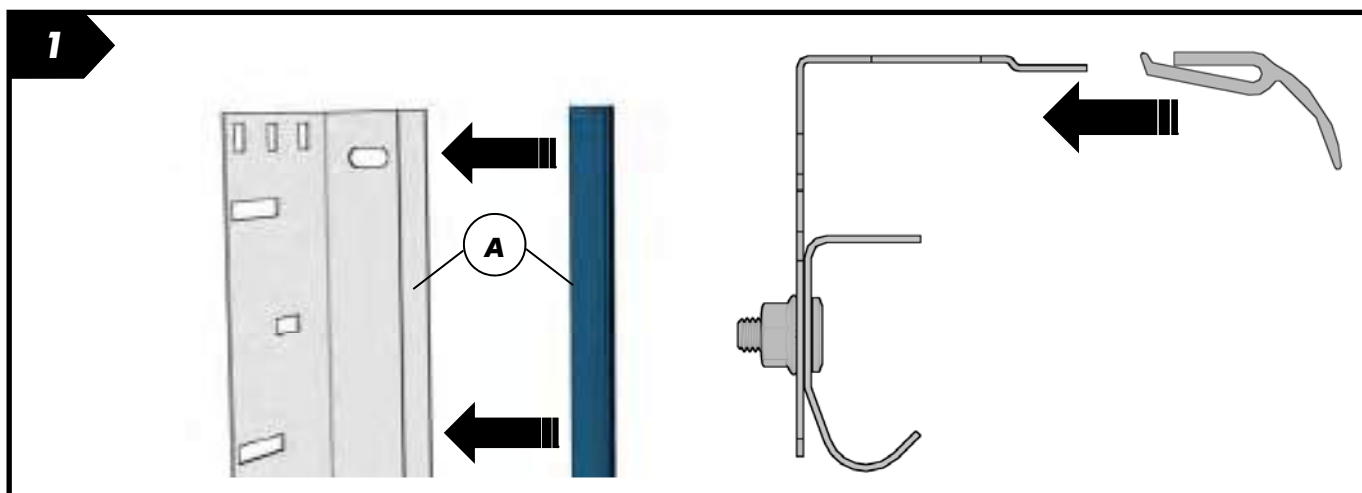
Z REAR MOUNT PLASTIC SPACER

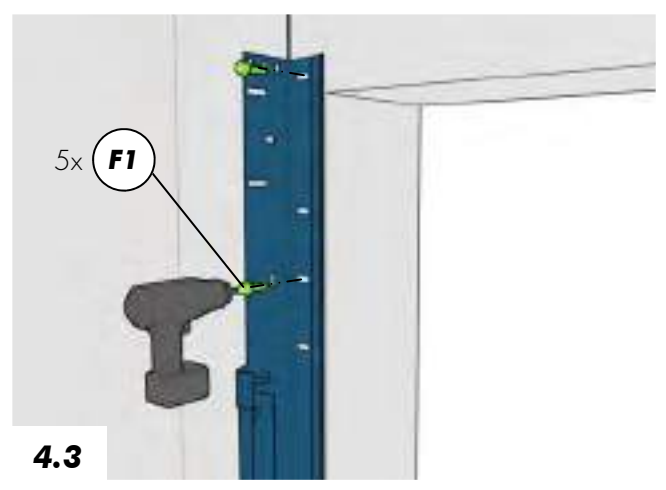
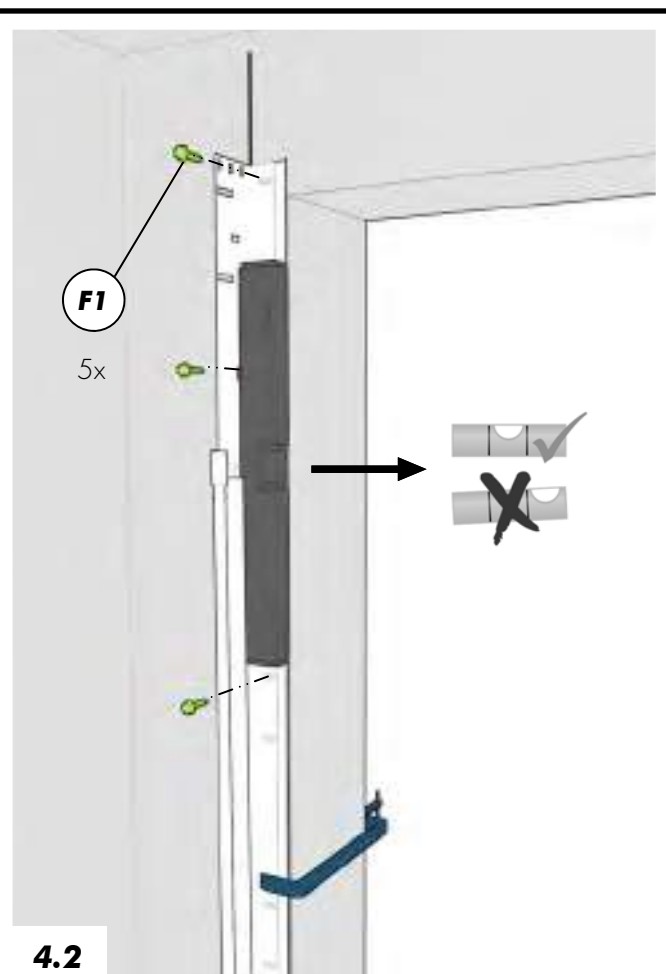
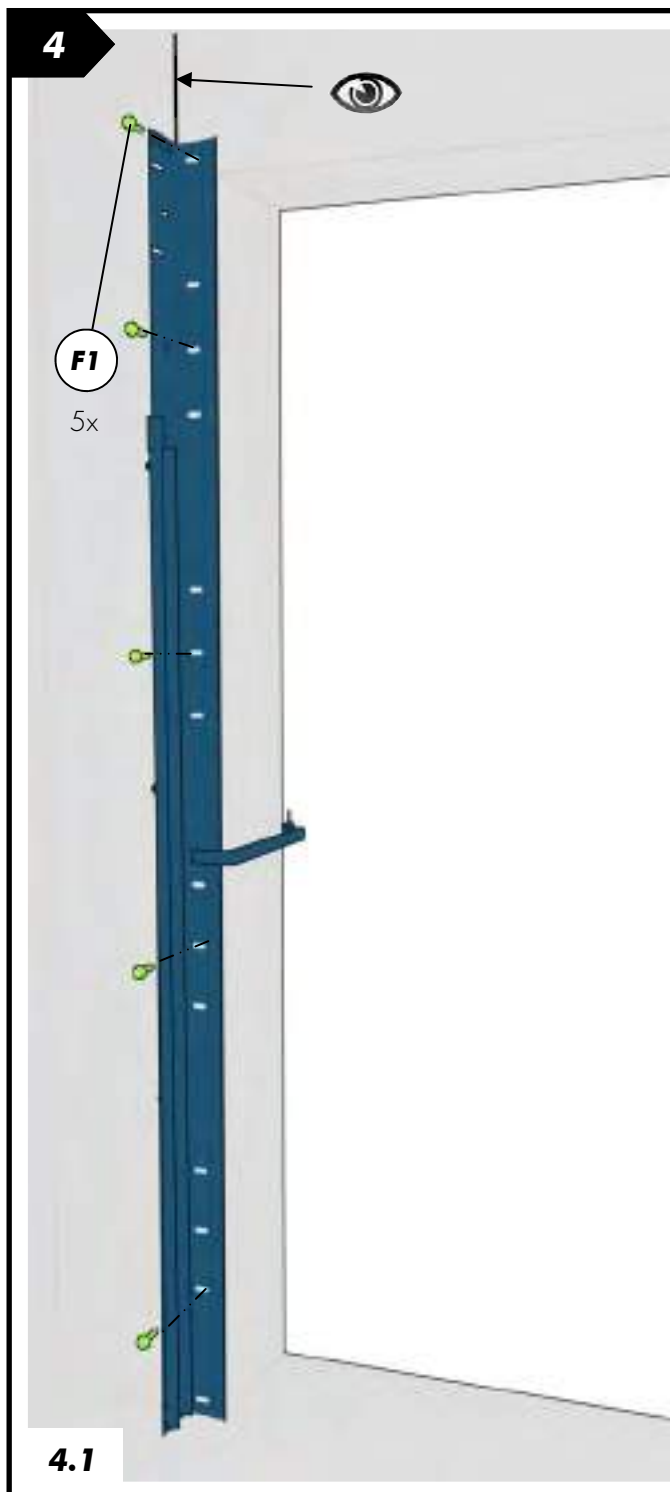
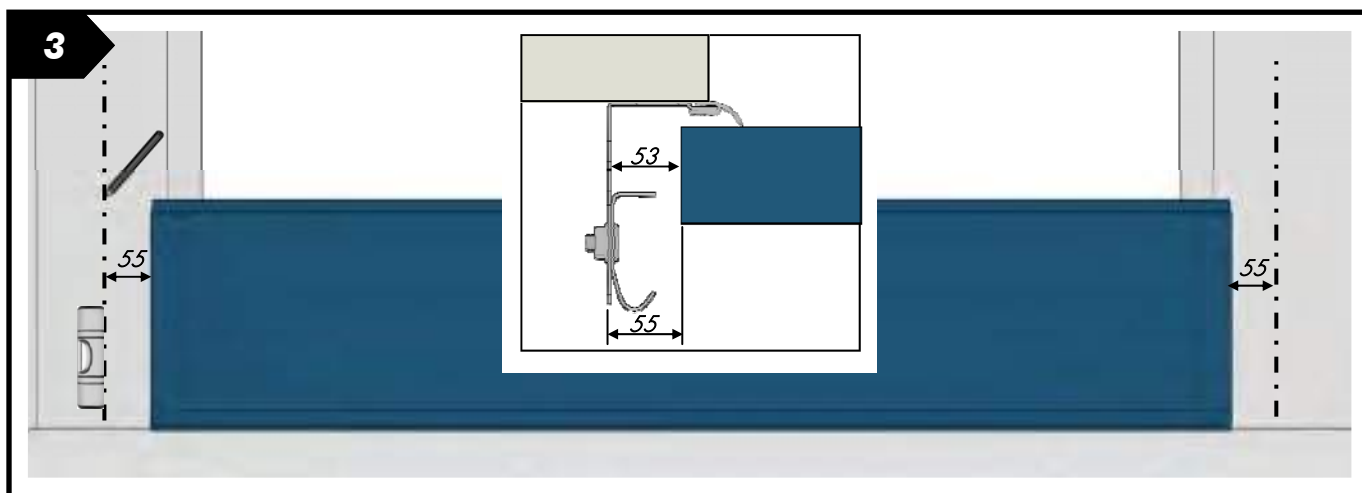
Part Number
198273

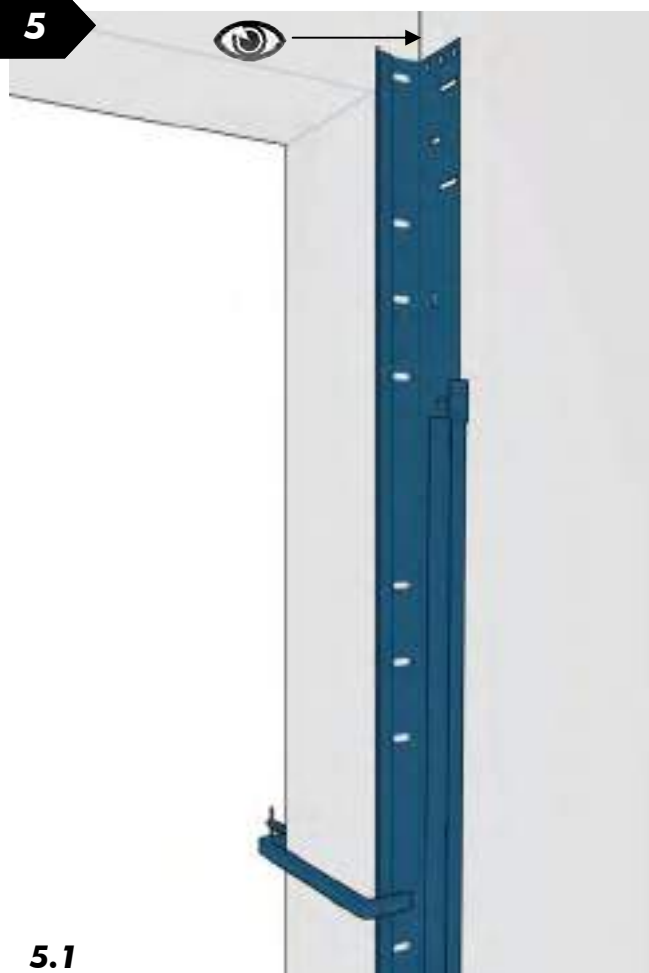
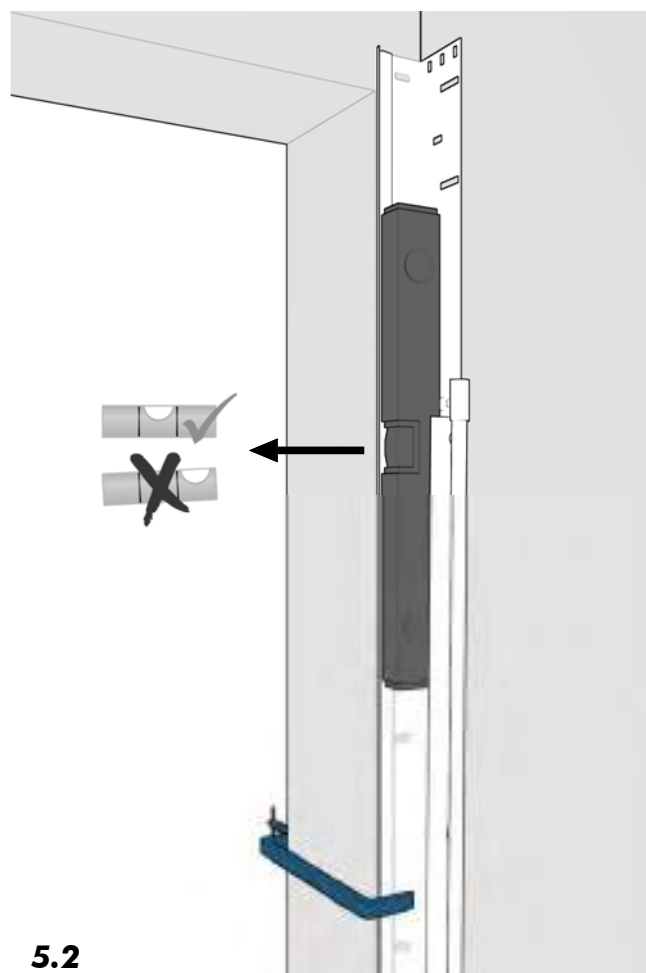
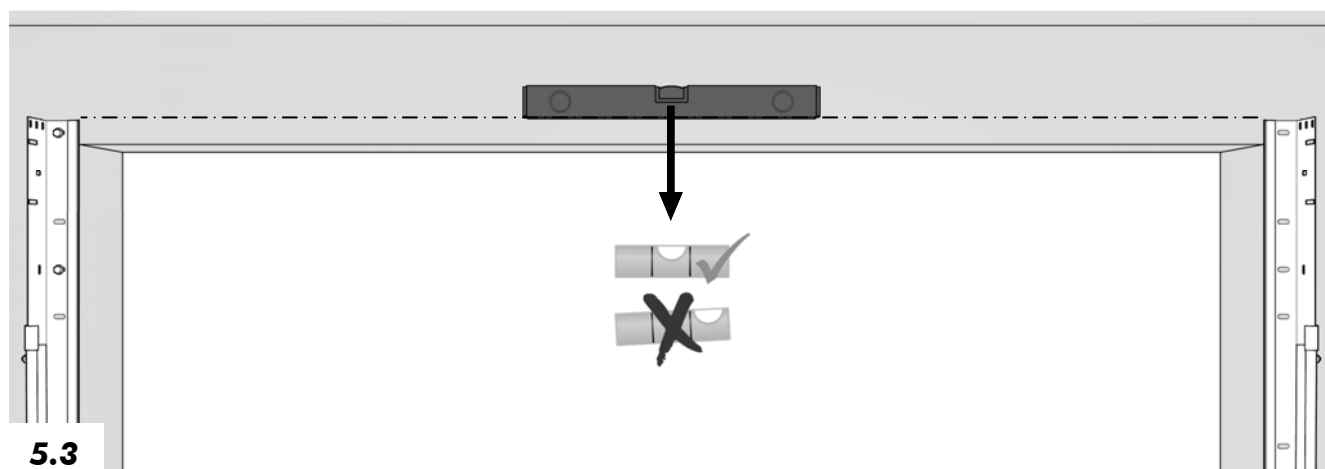
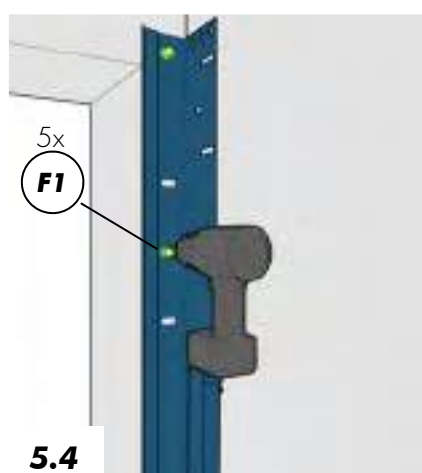
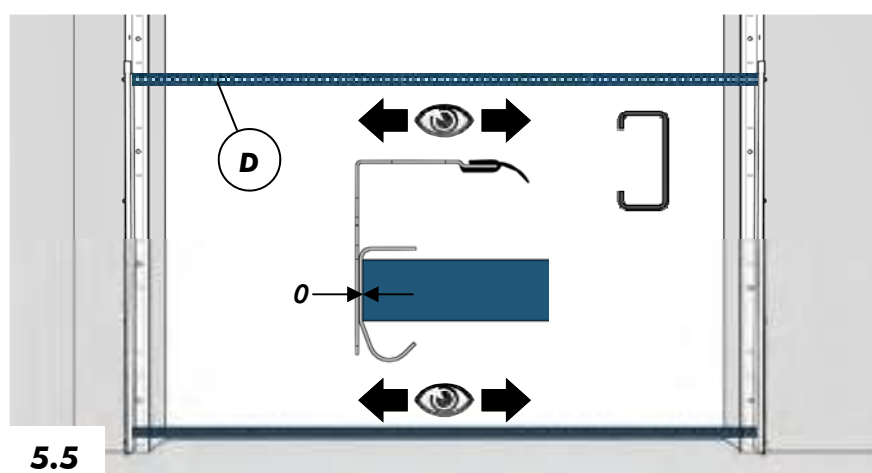


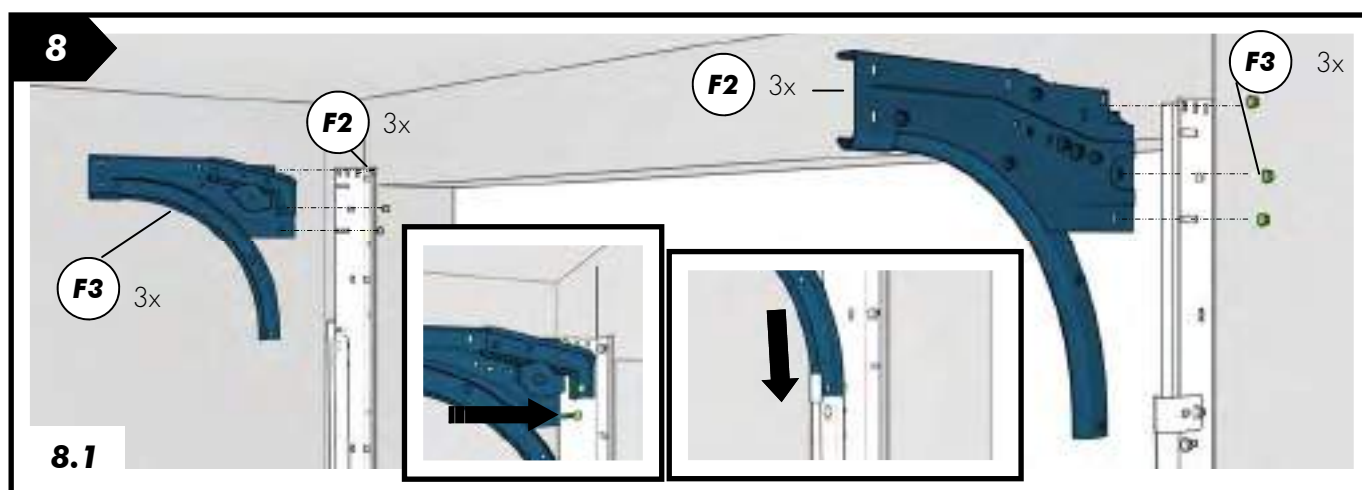
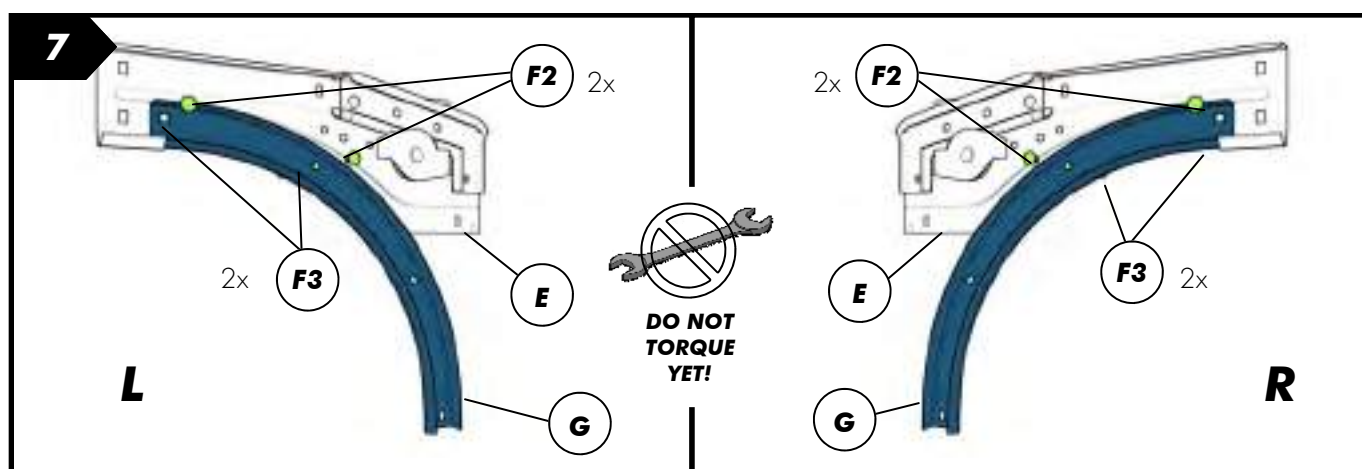
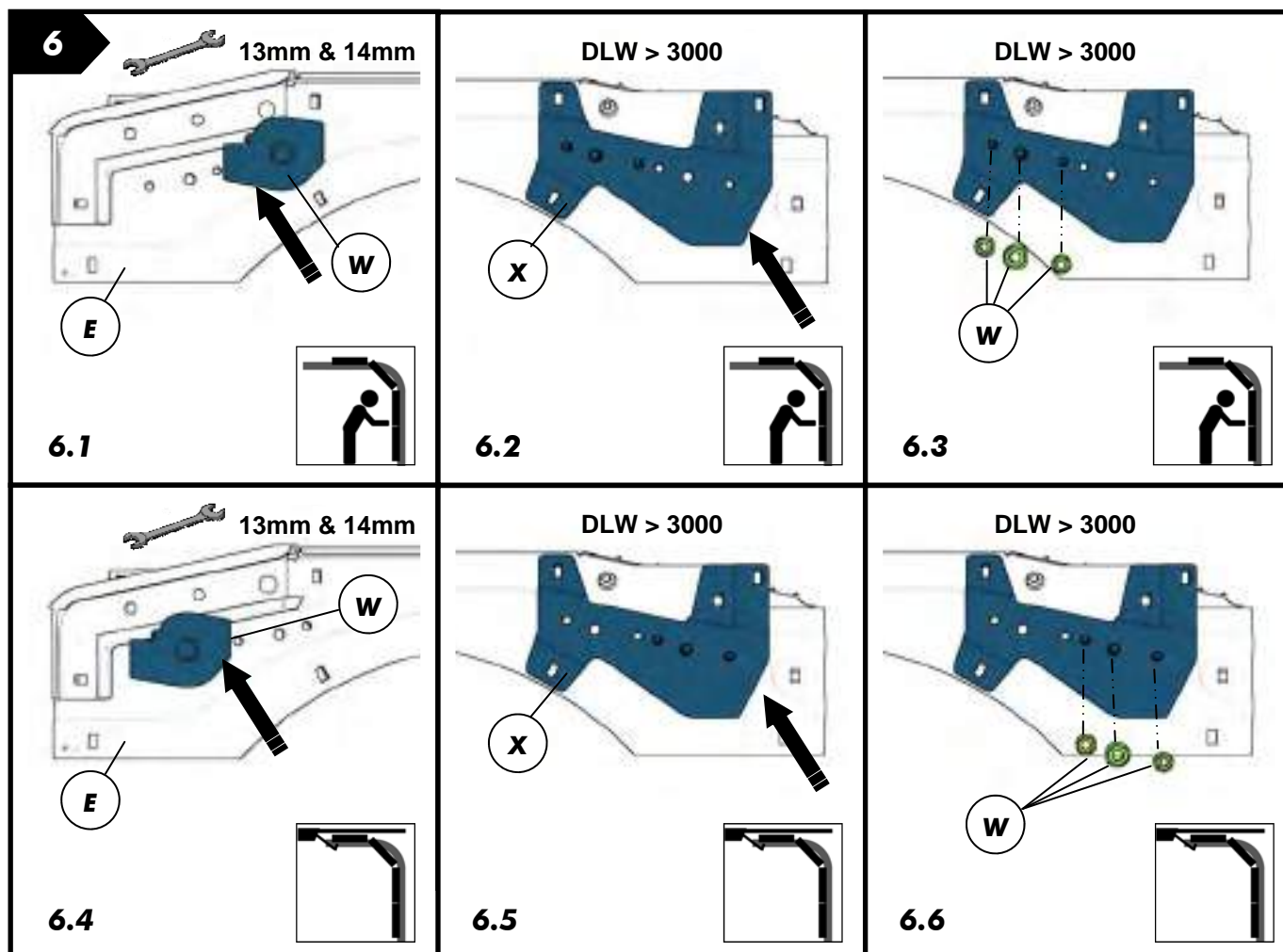
NOT INCLUDED IN KIT

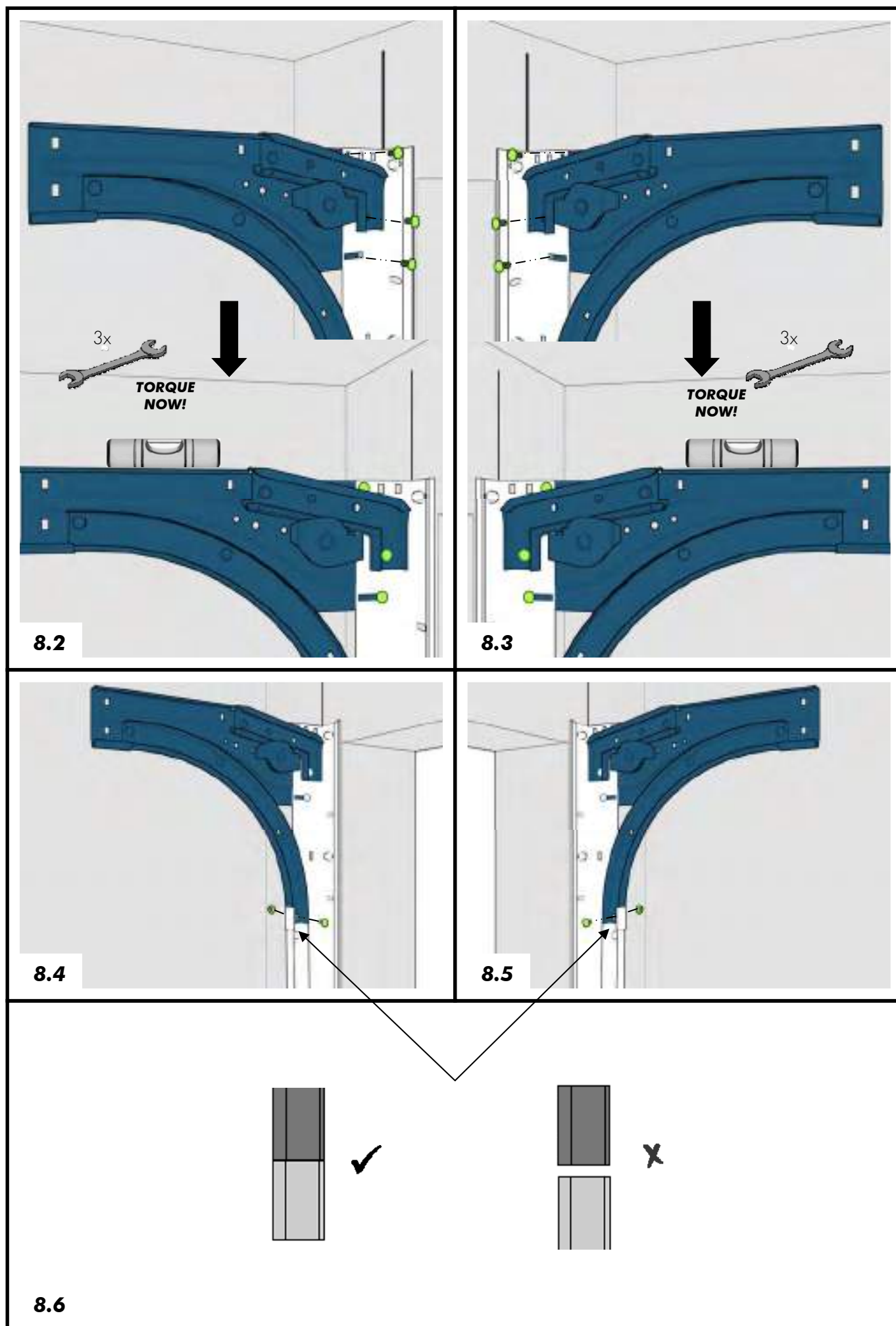




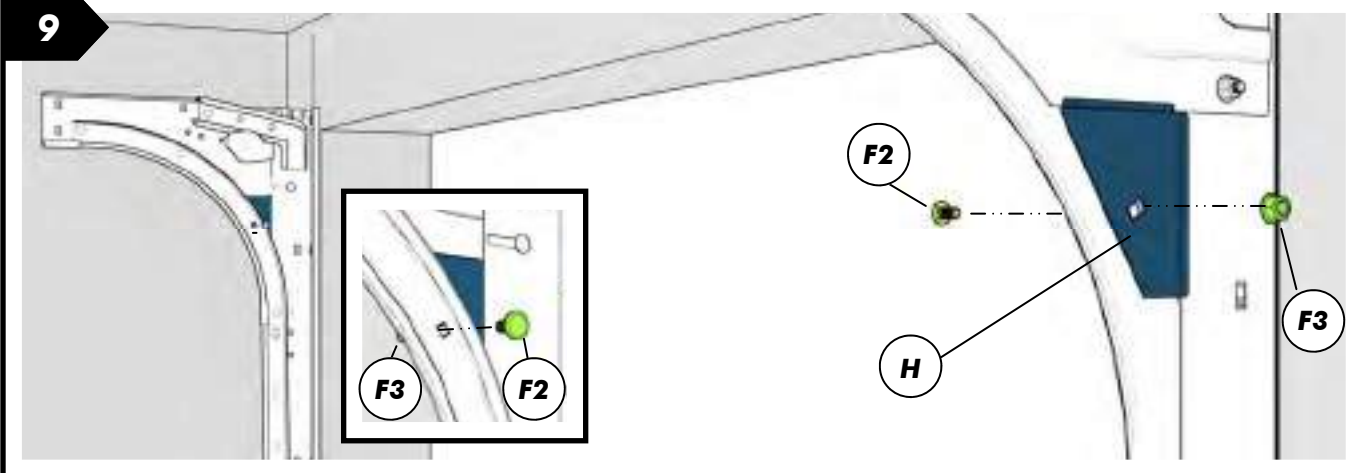


5**5.1****5.2****5.3****5.4****5.5**

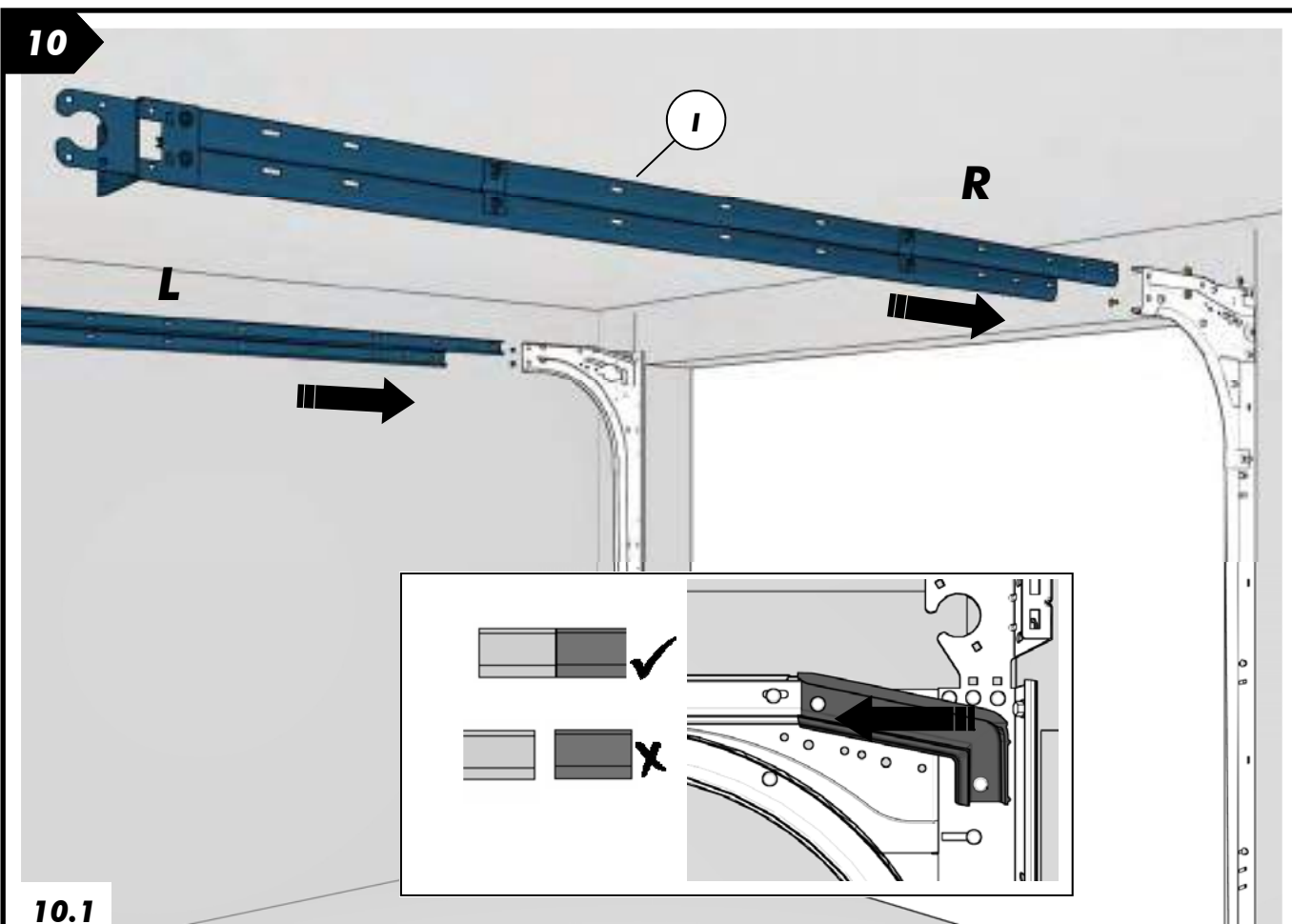




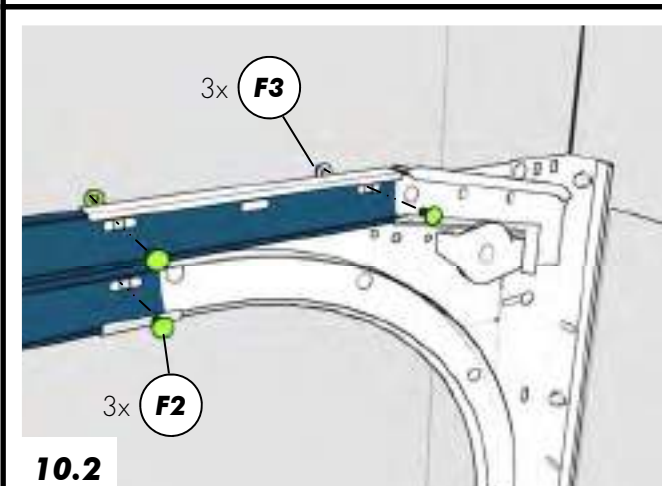
9



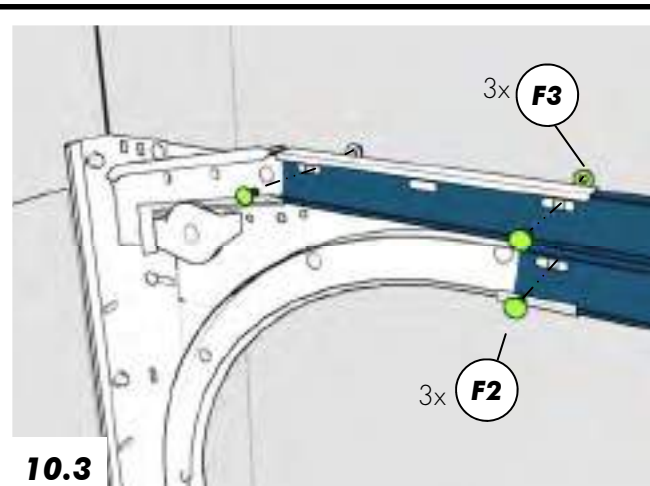
10



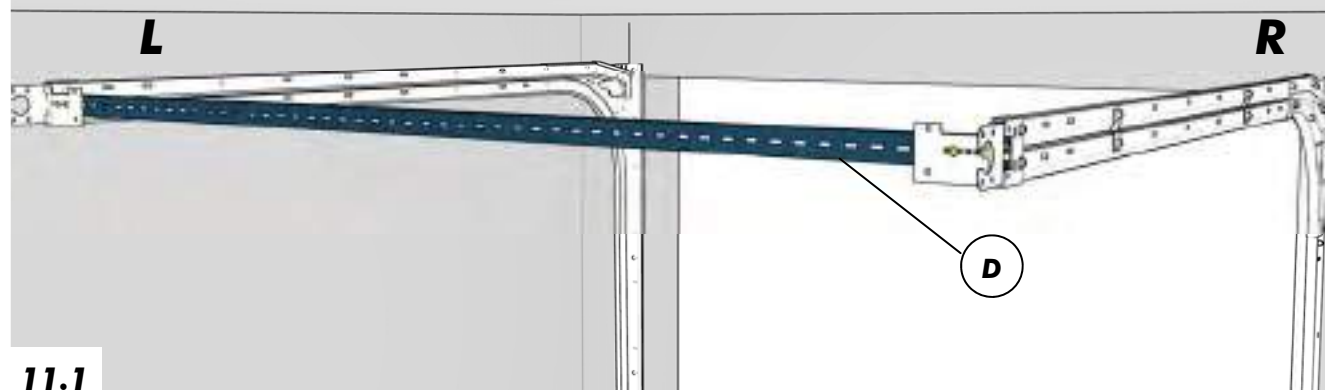
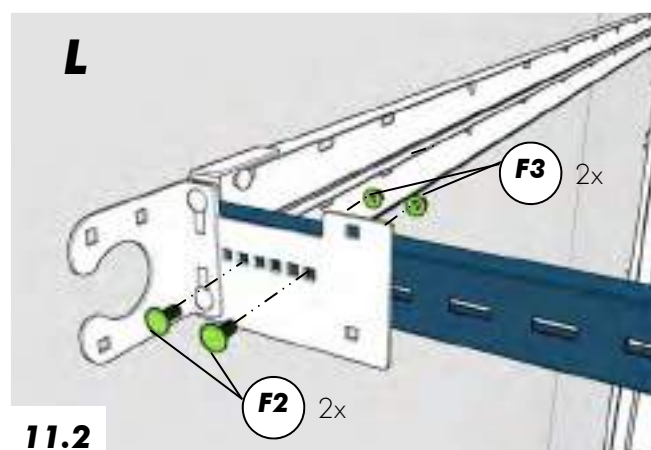
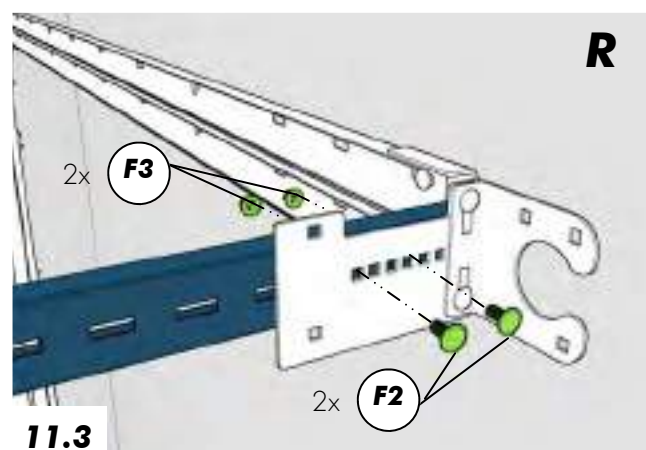
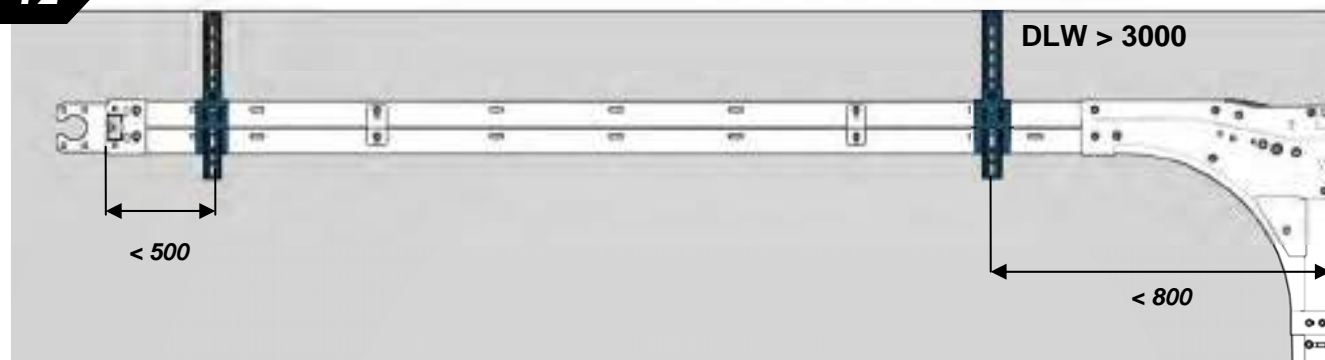
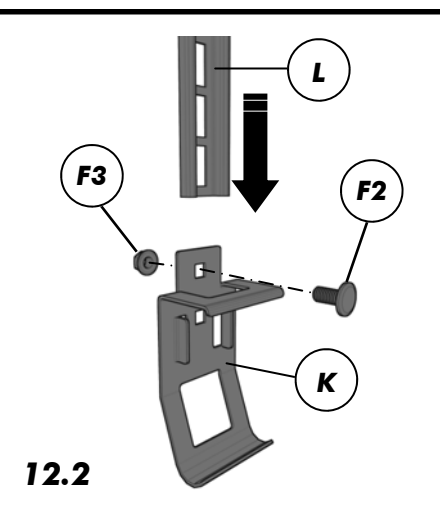
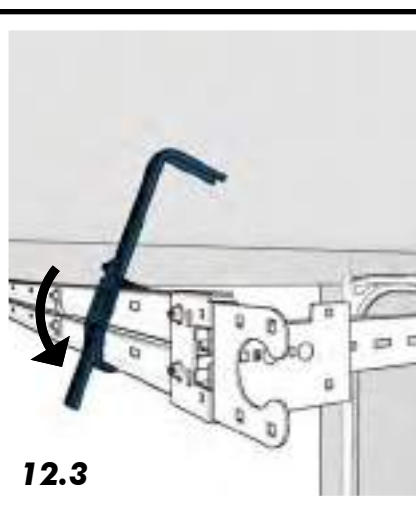
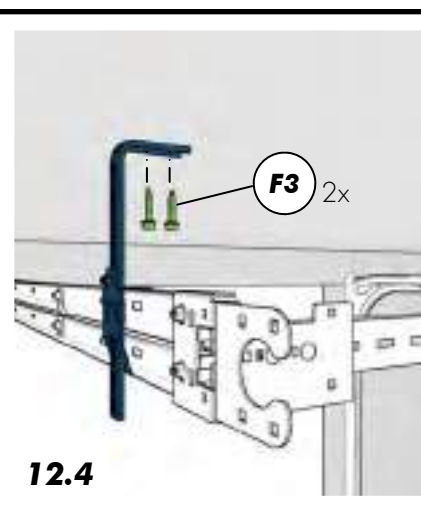
10.1

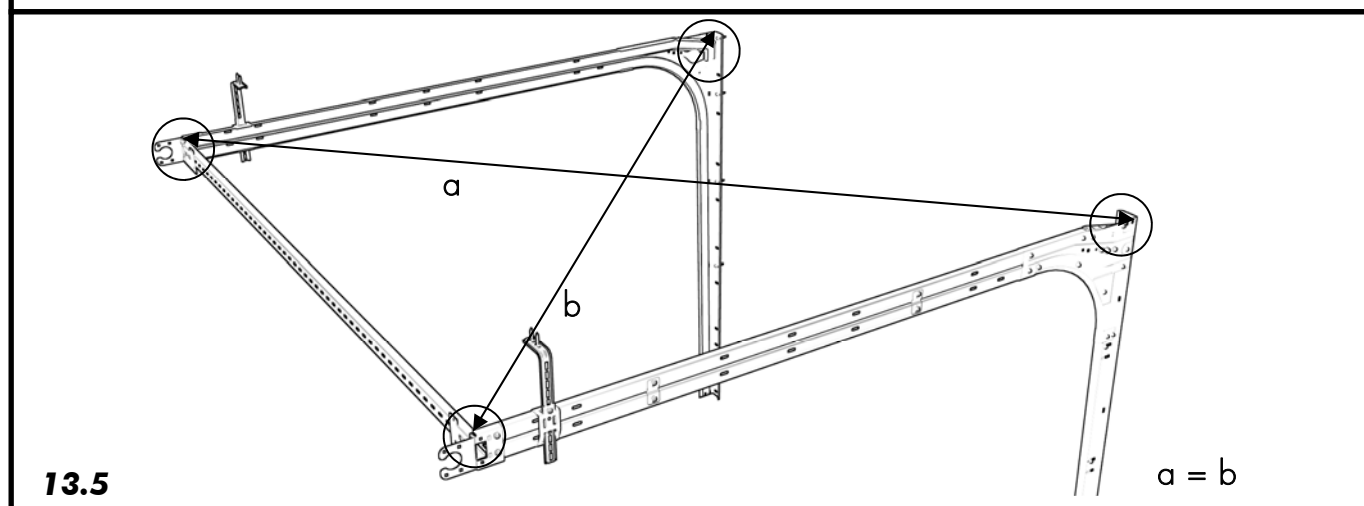
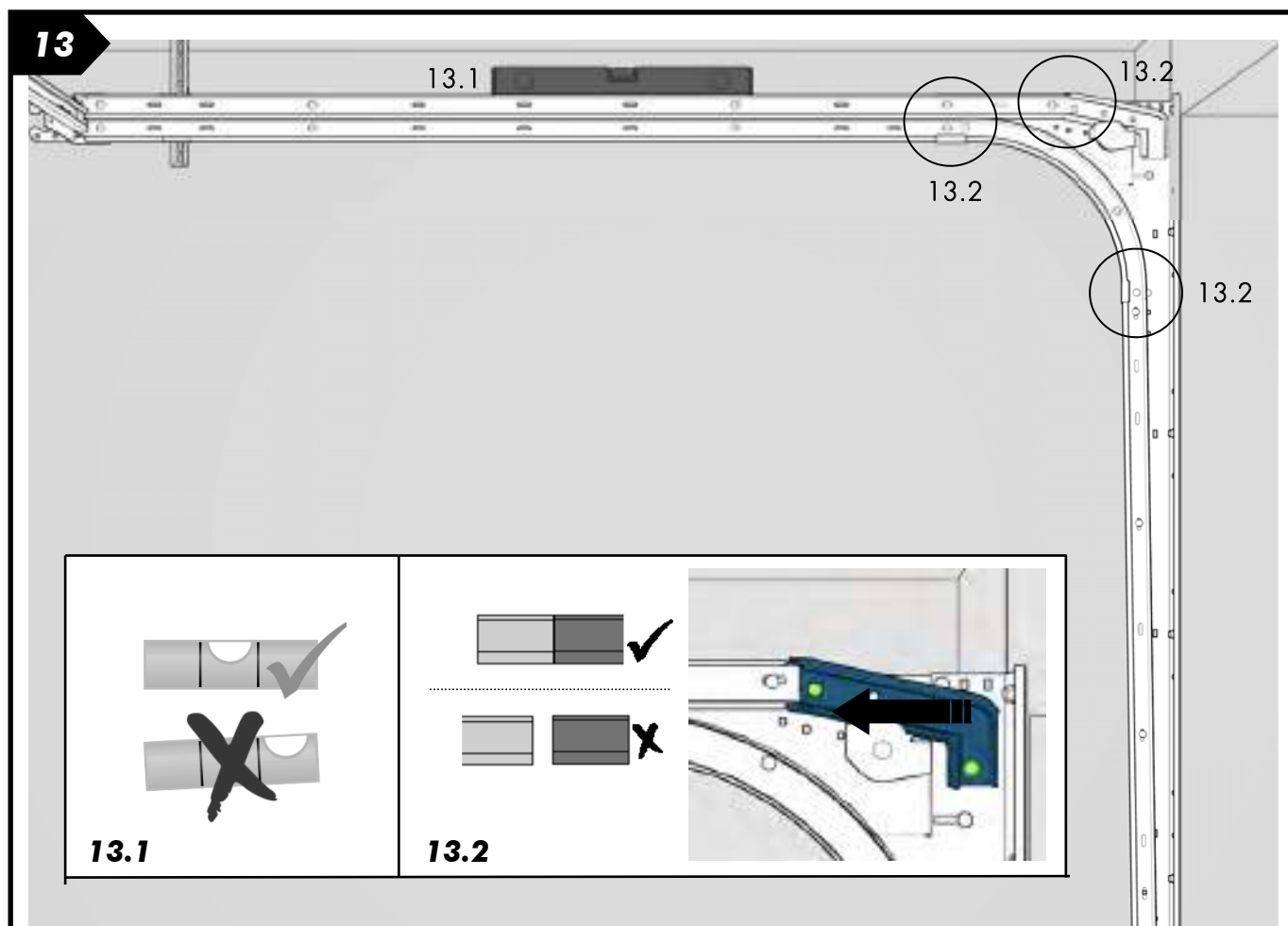
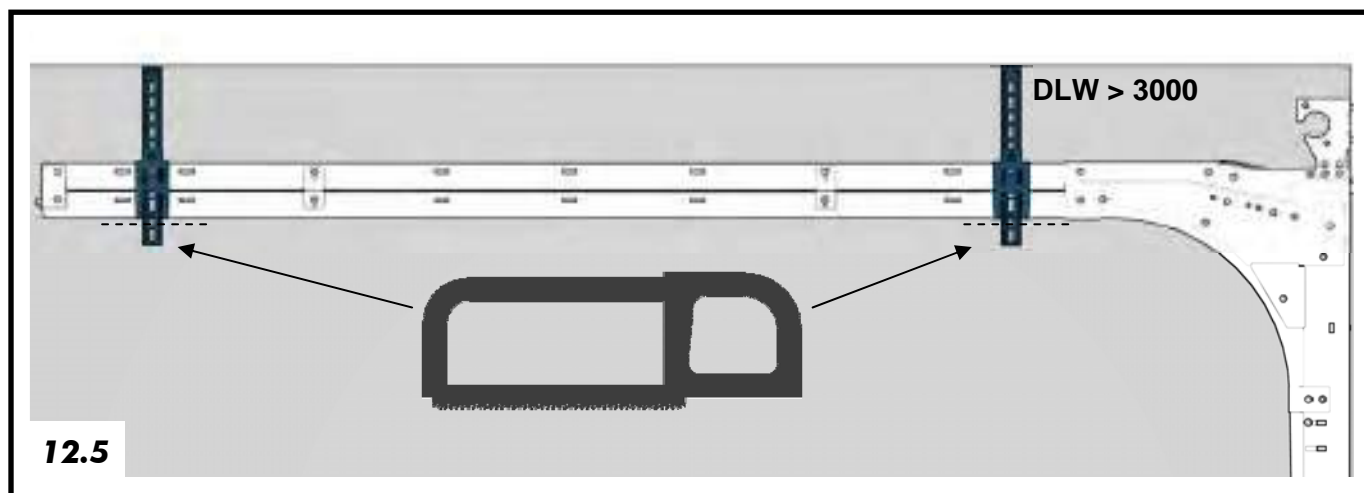


10.2



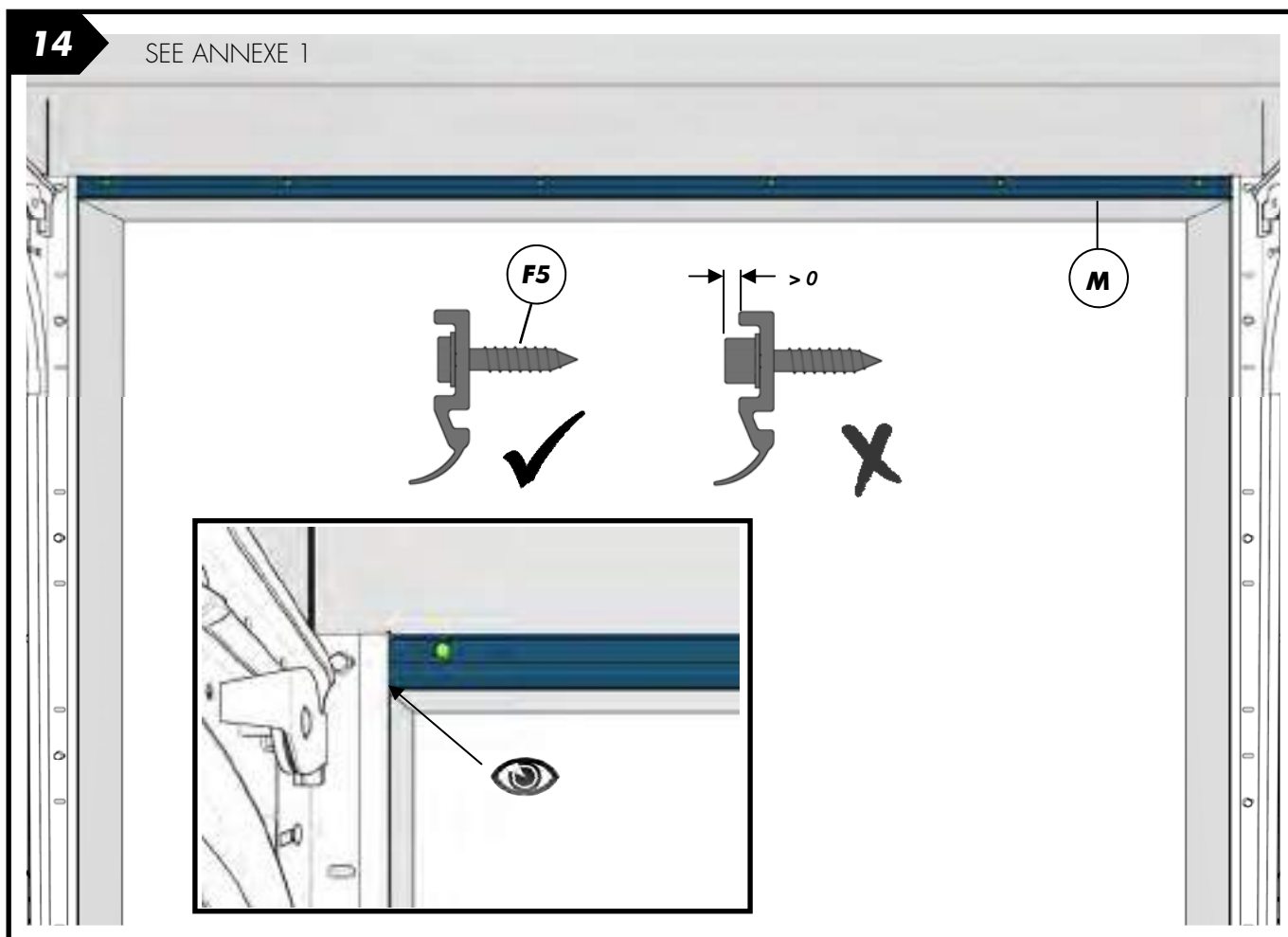
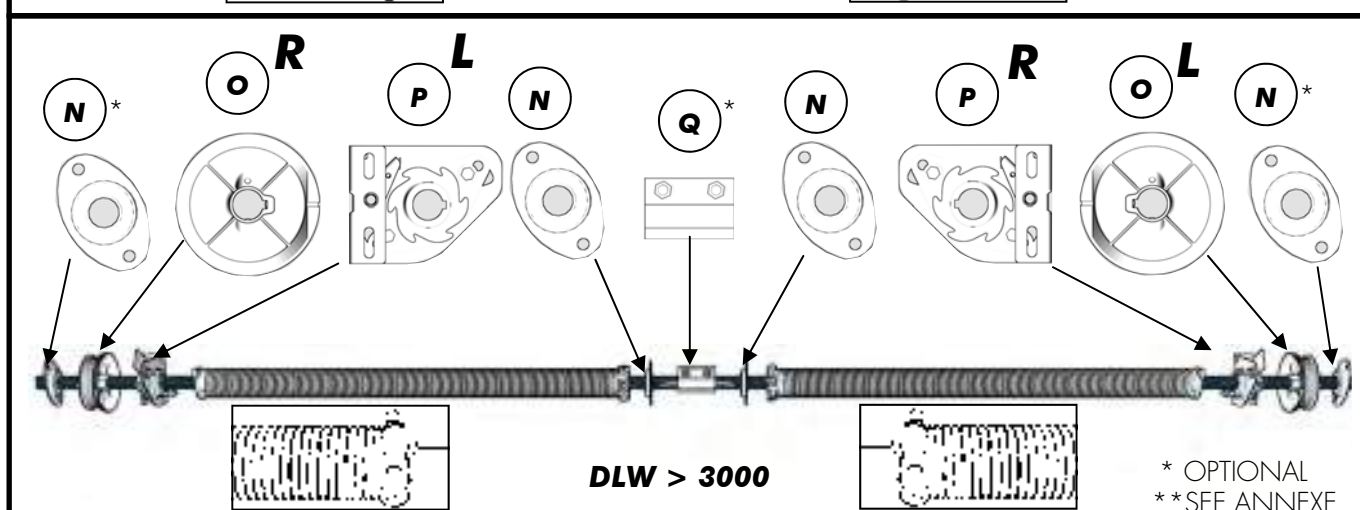
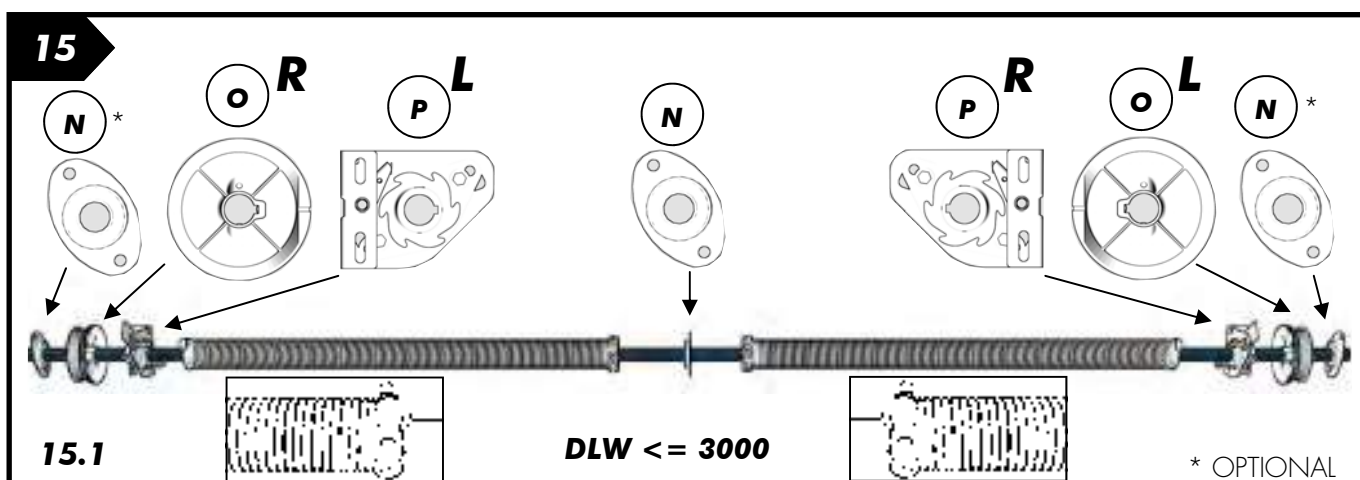
10.3

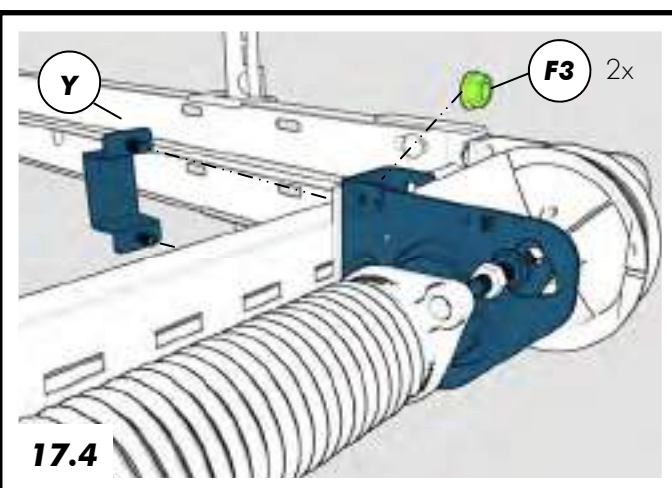
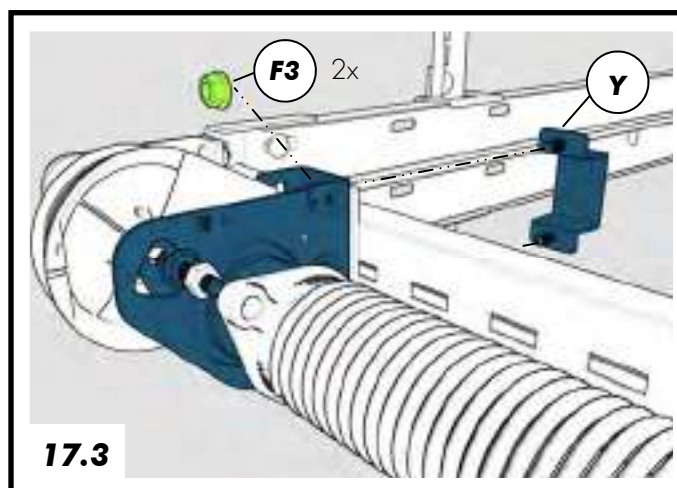
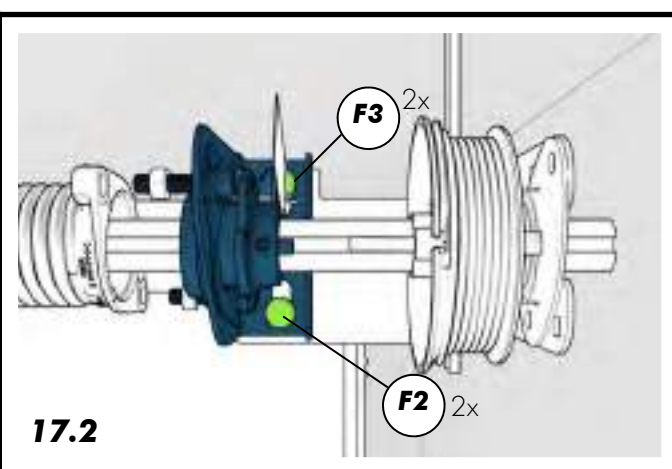
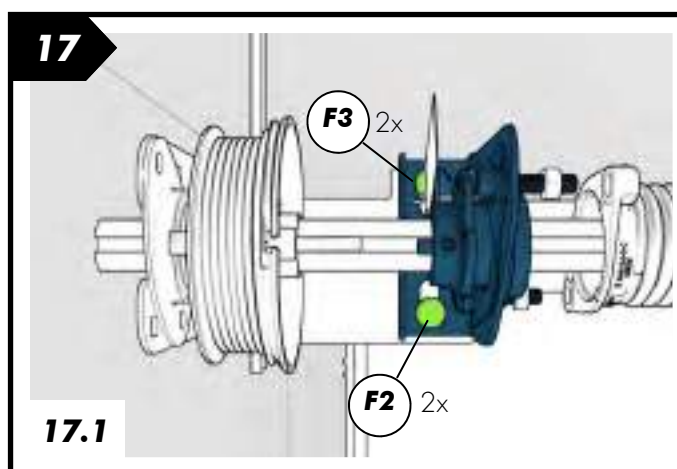
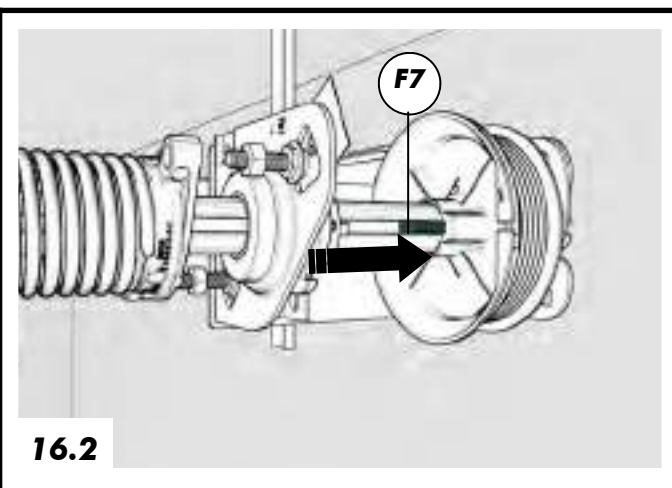
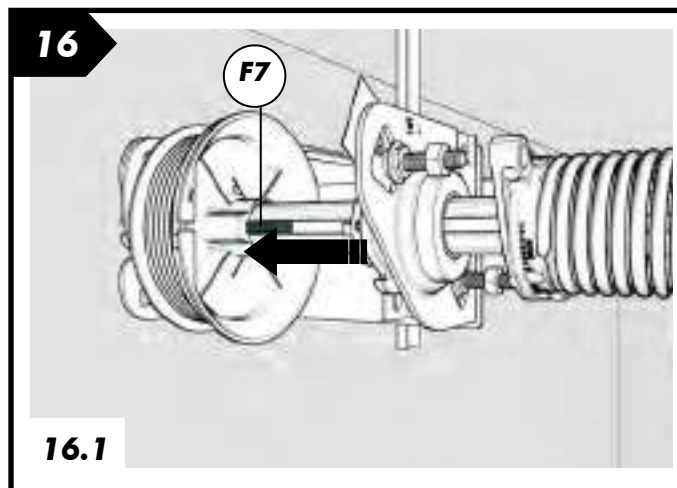
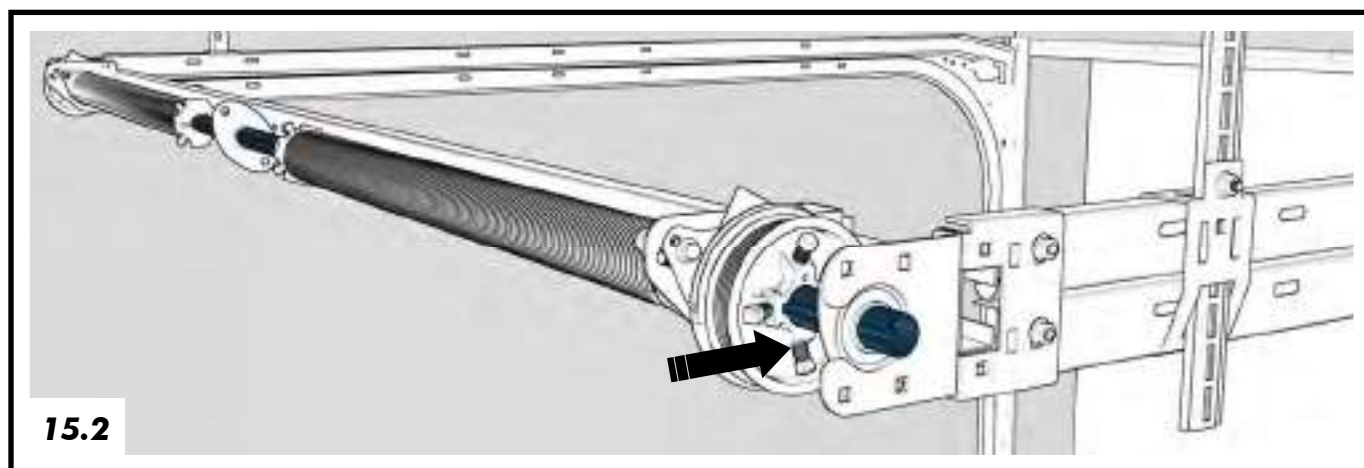
11**11.1****11.2****11.3****12****12.1****12.2****12.3****12.4**

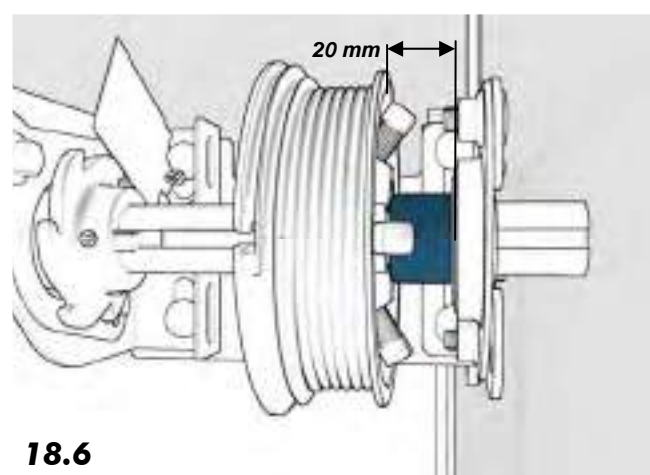
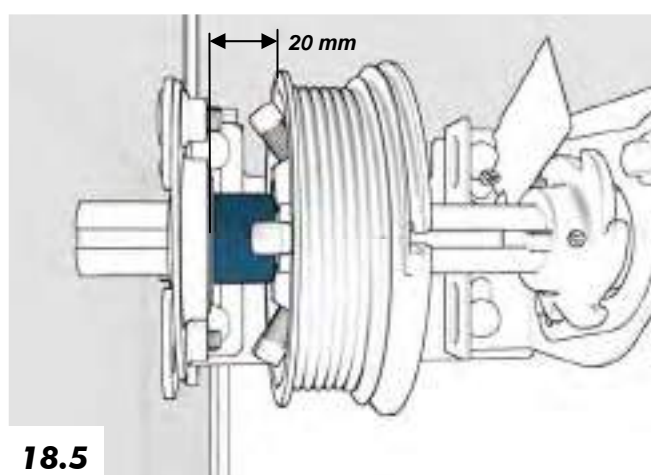
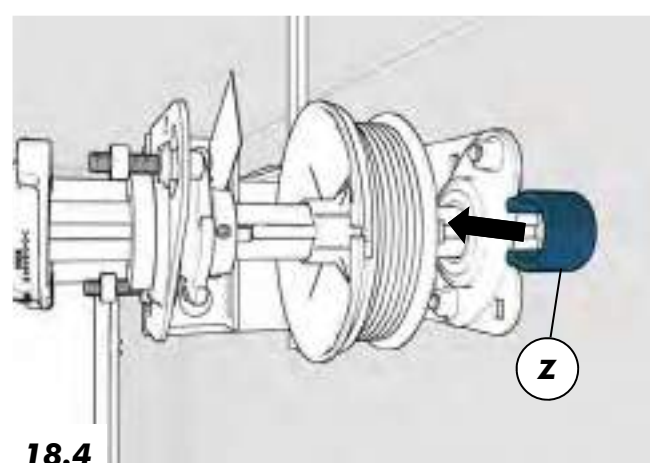
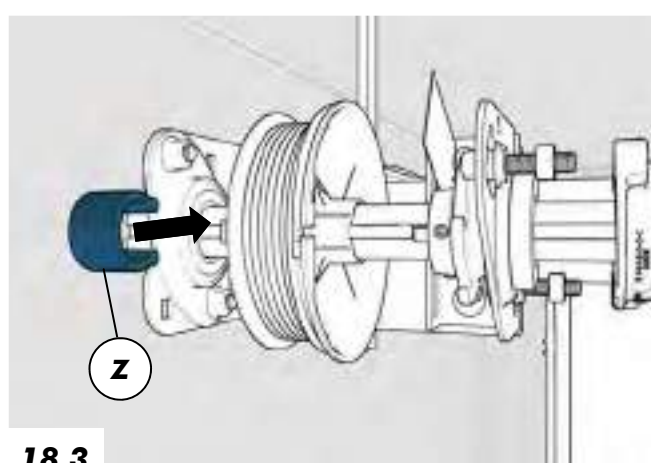
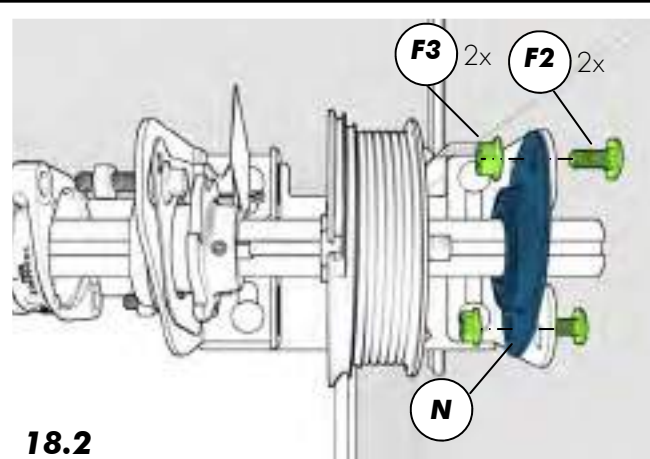
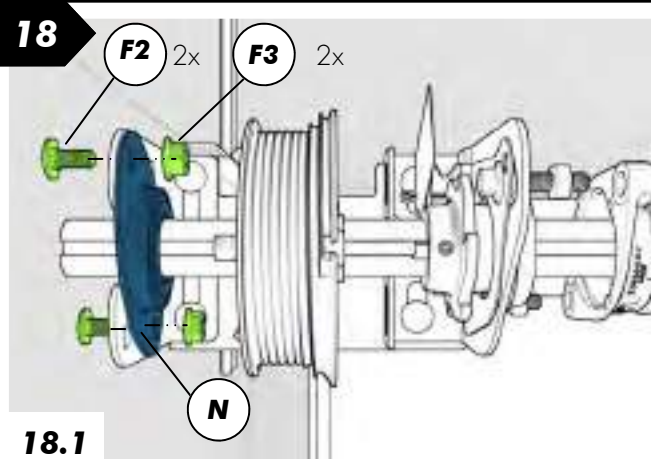
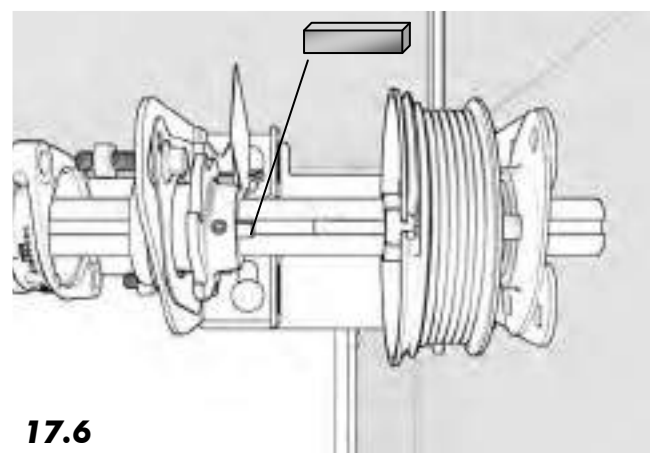
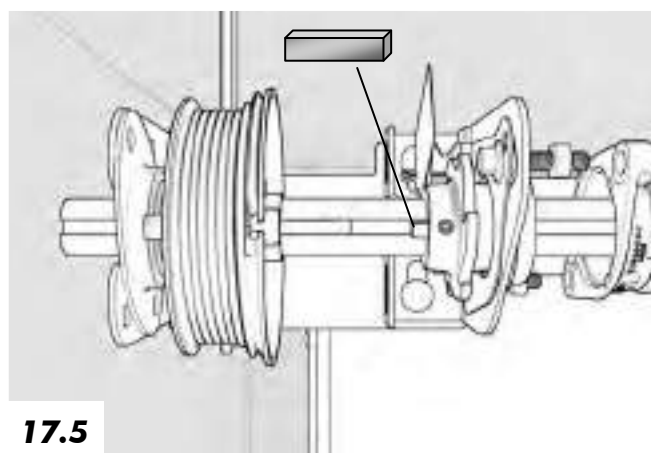


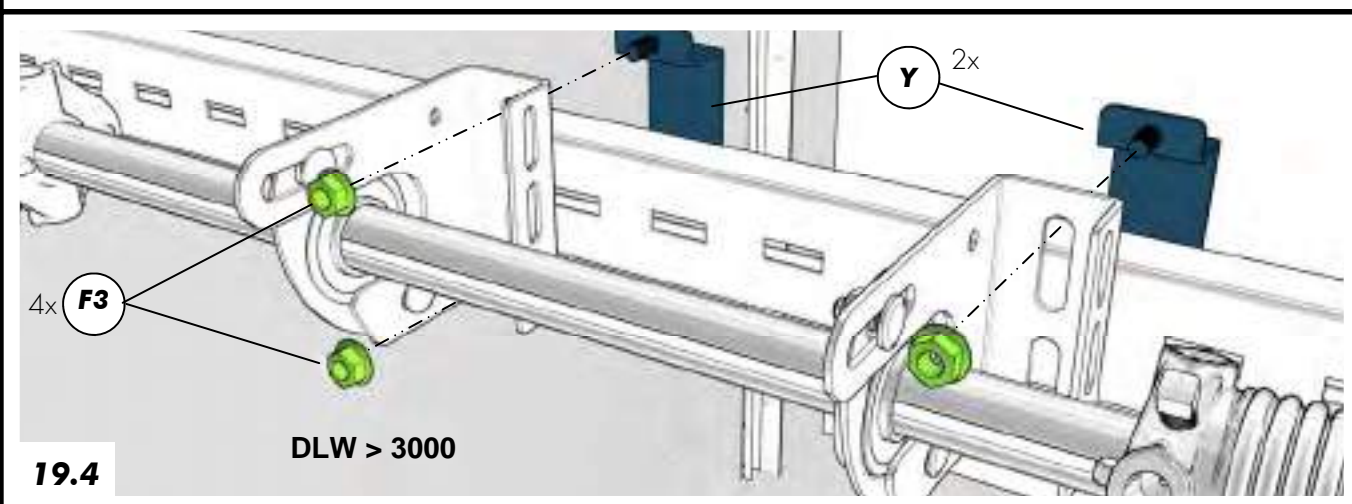
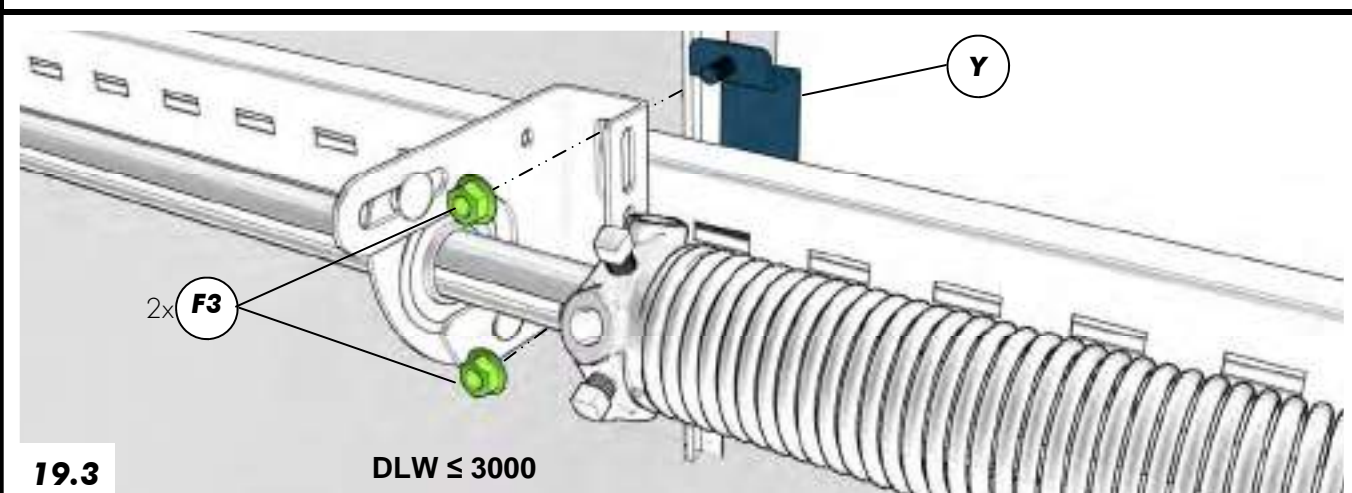
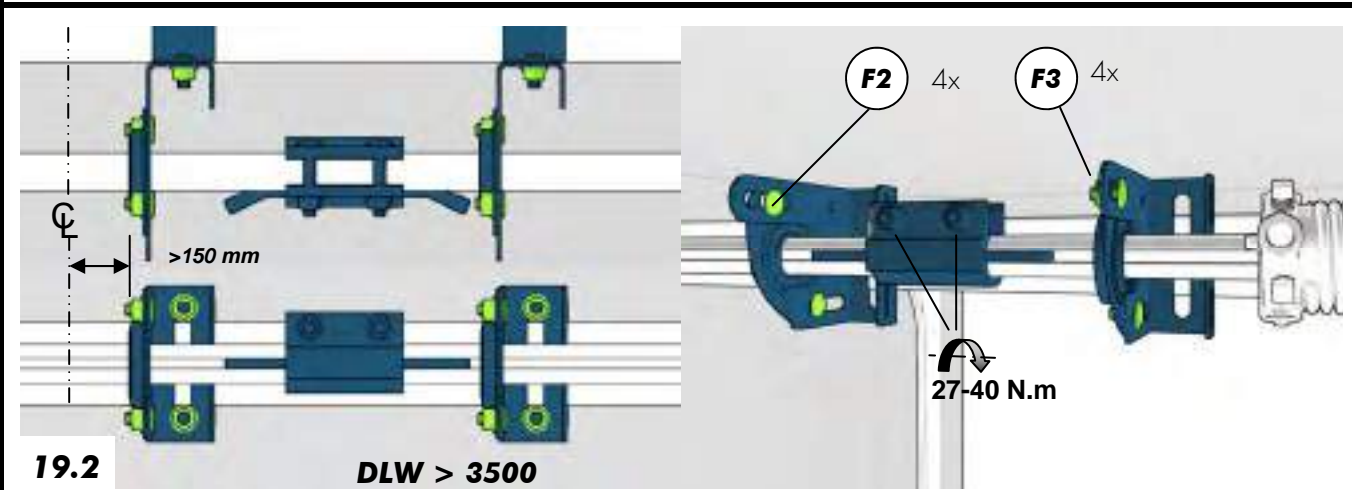
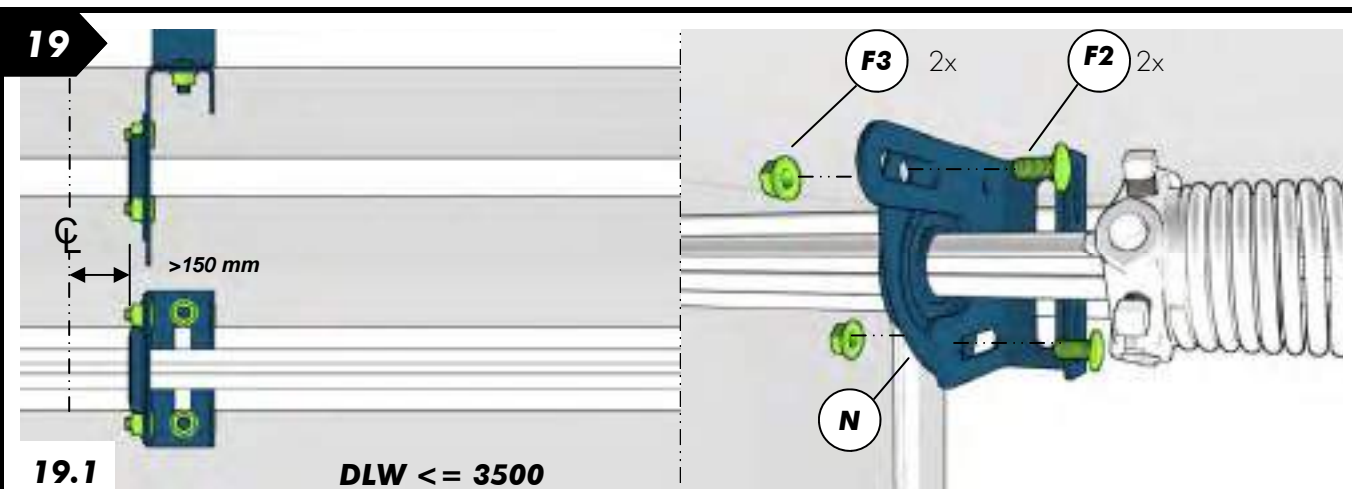
14

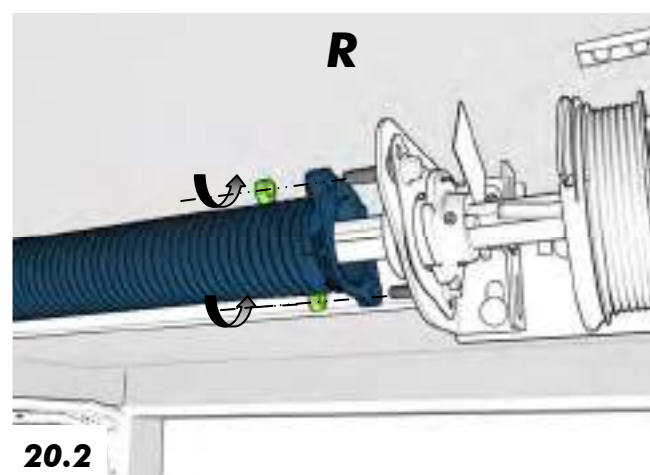
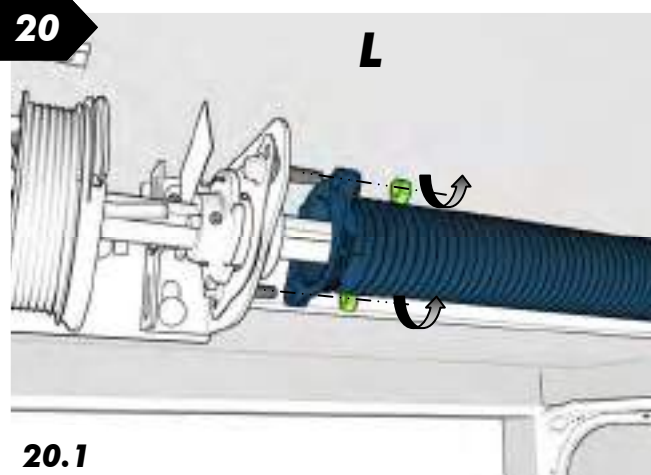
SEE ANNEXE 1

**15**

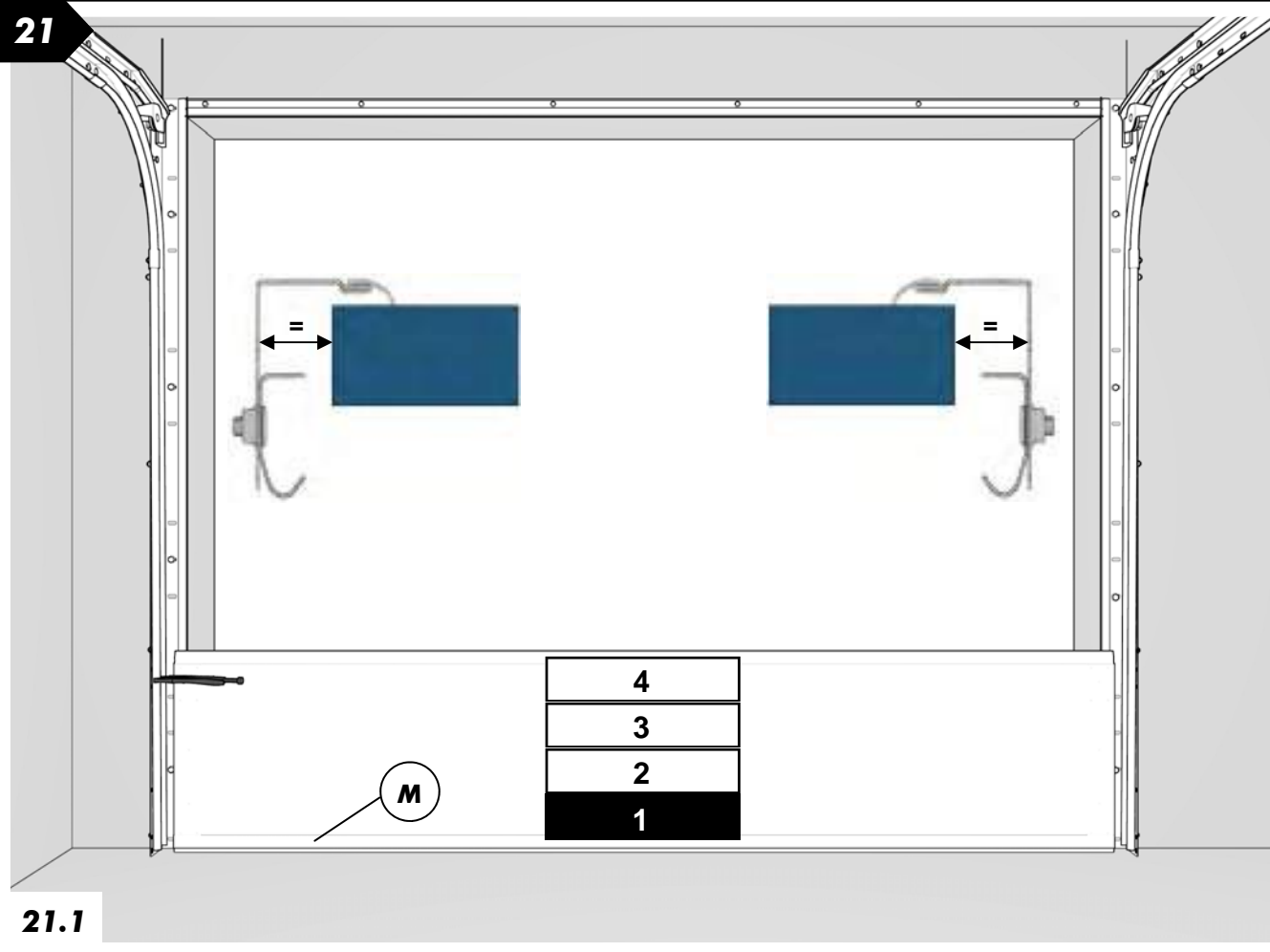


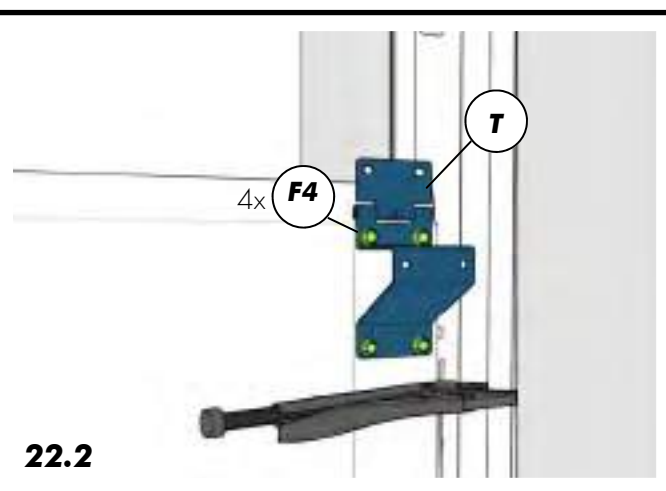
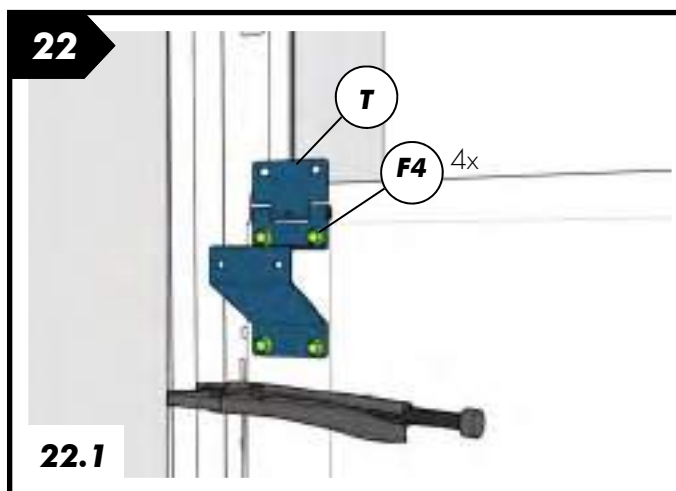
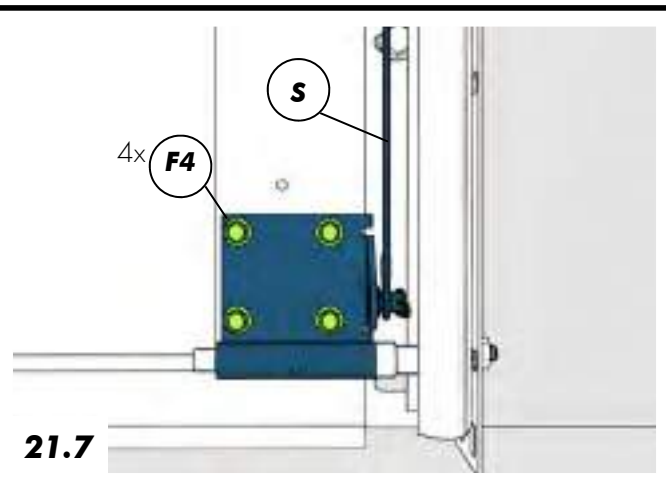
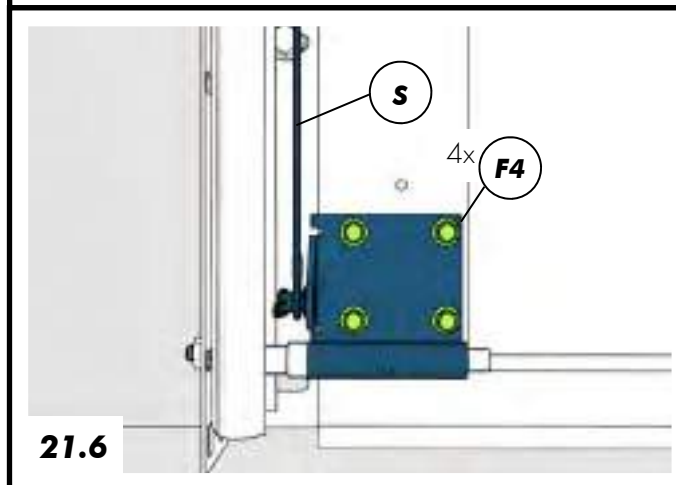
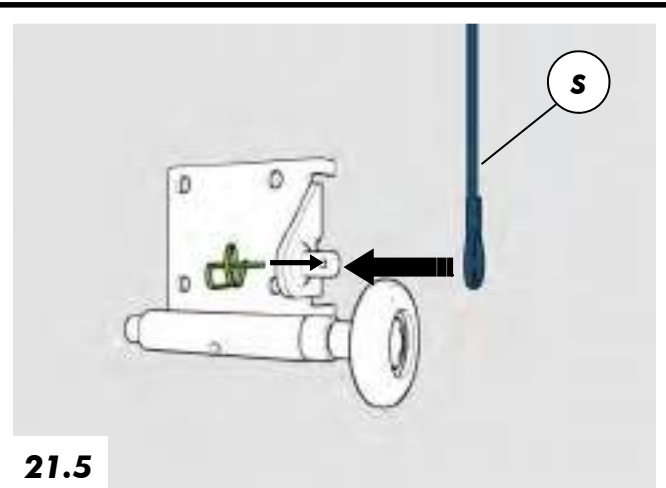
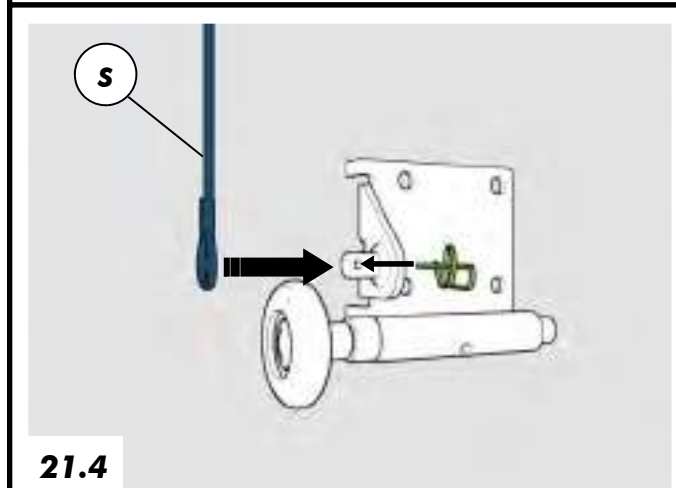
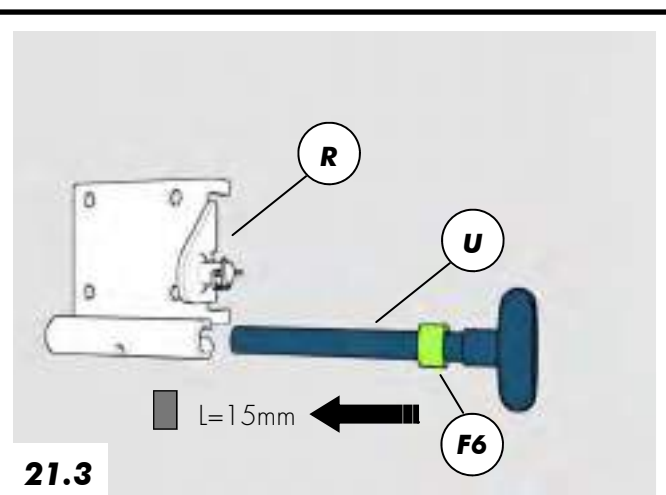
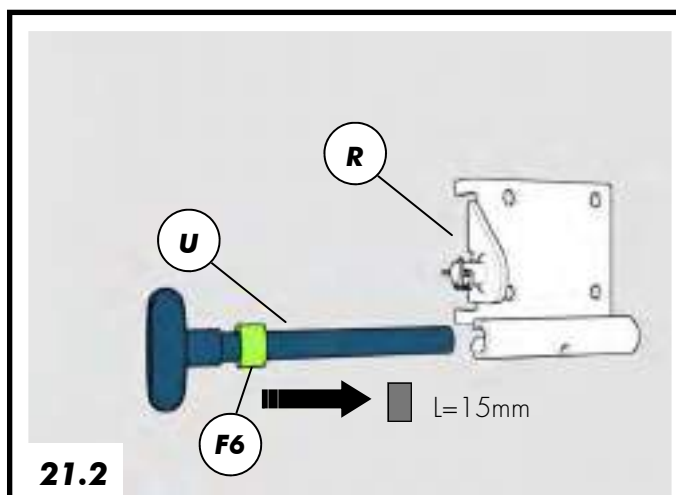


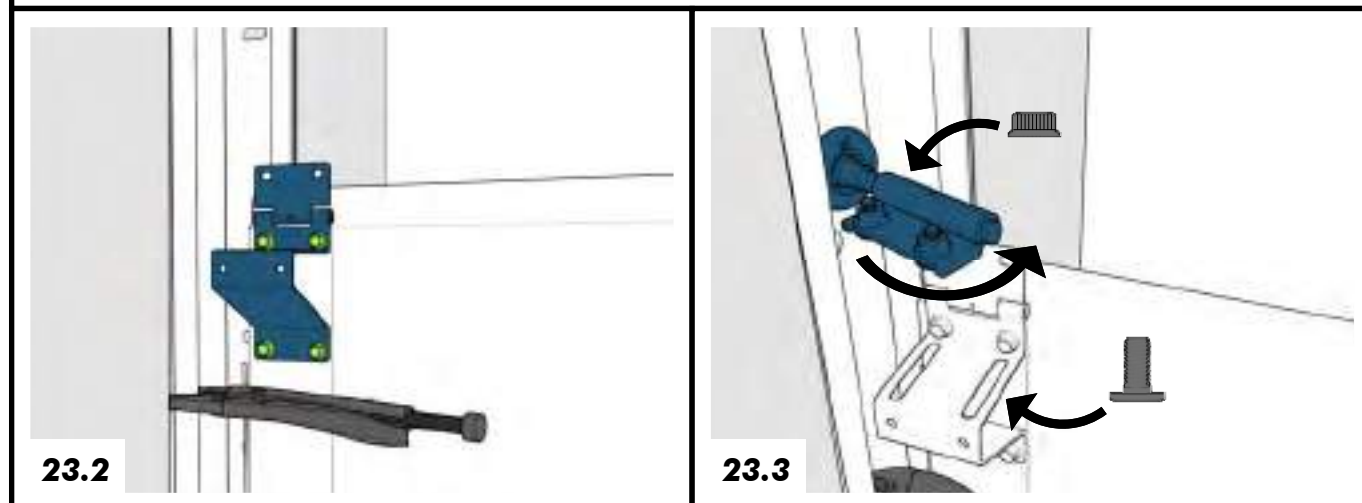
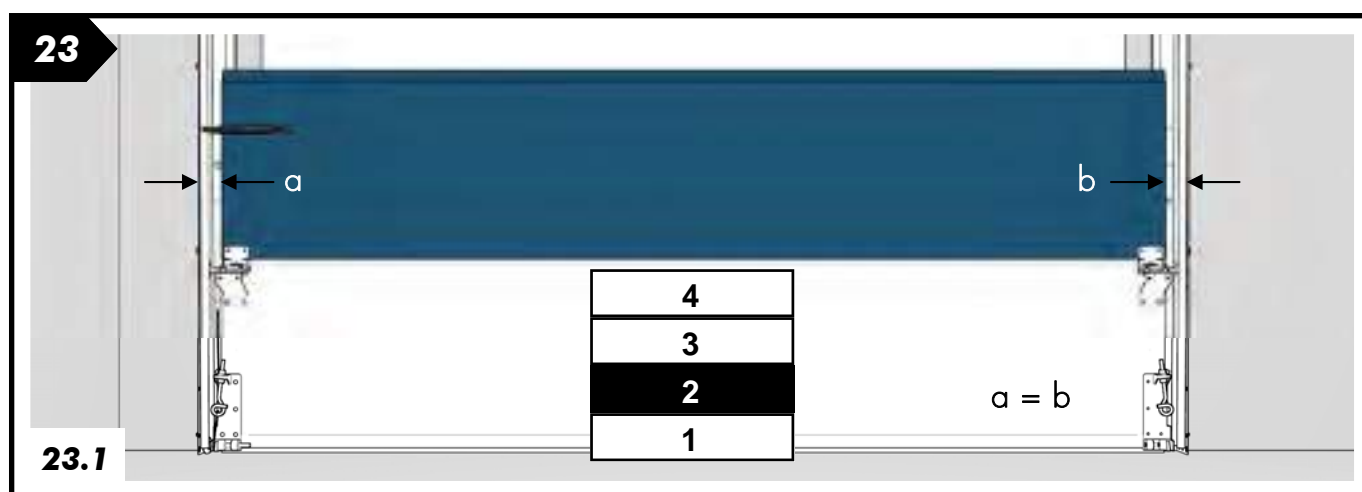
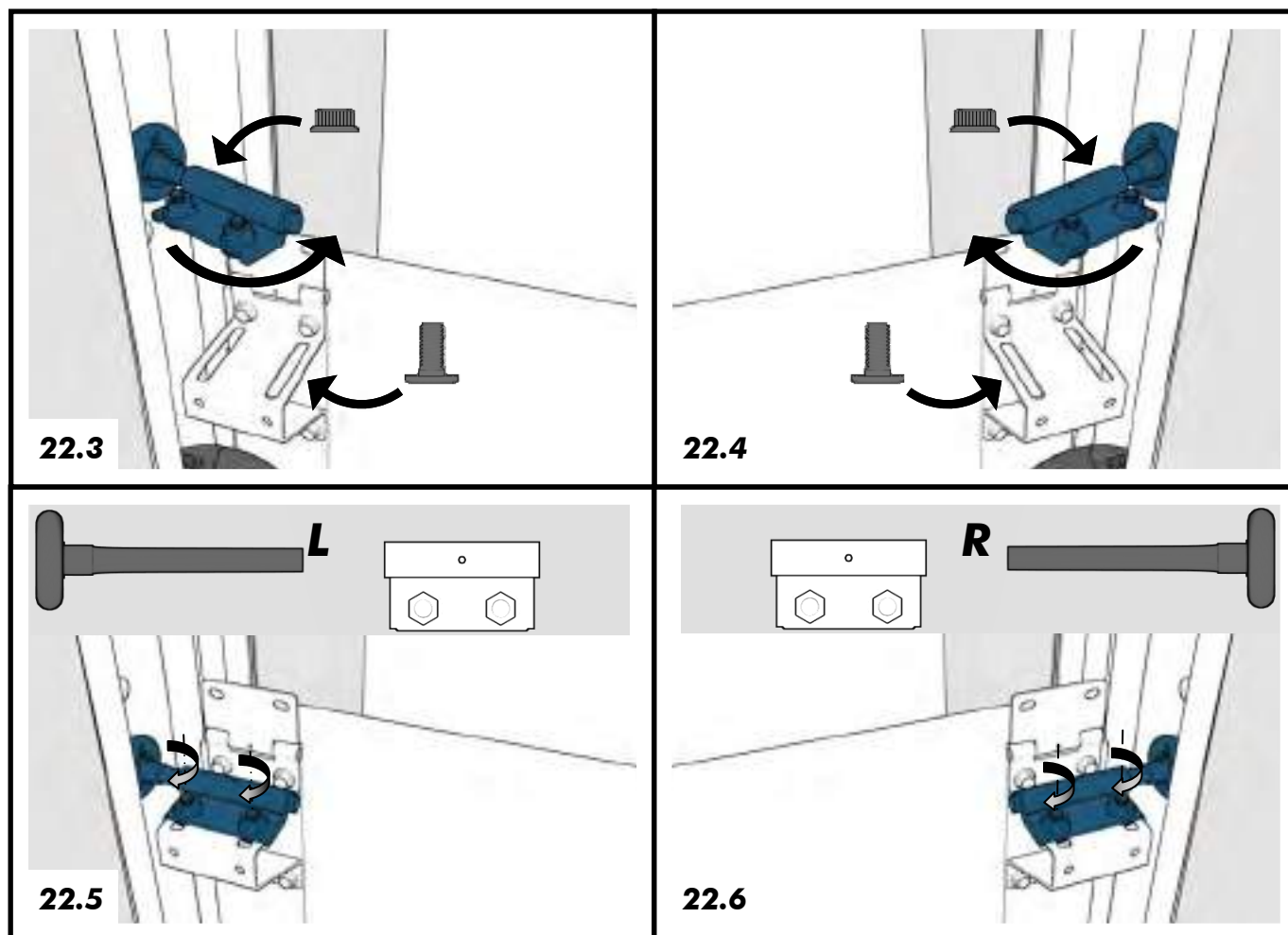
19

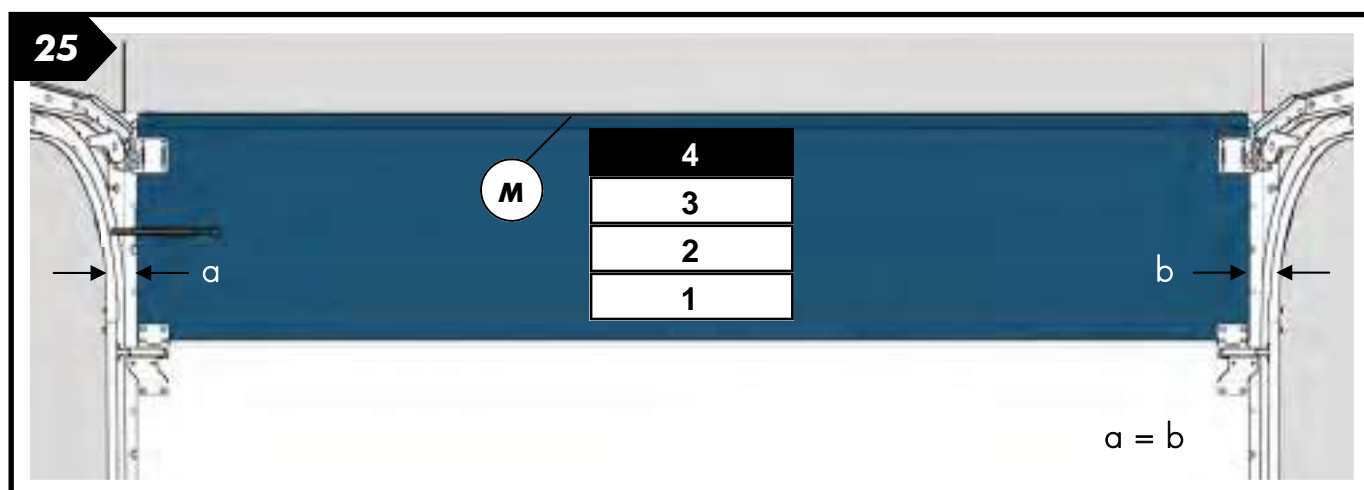
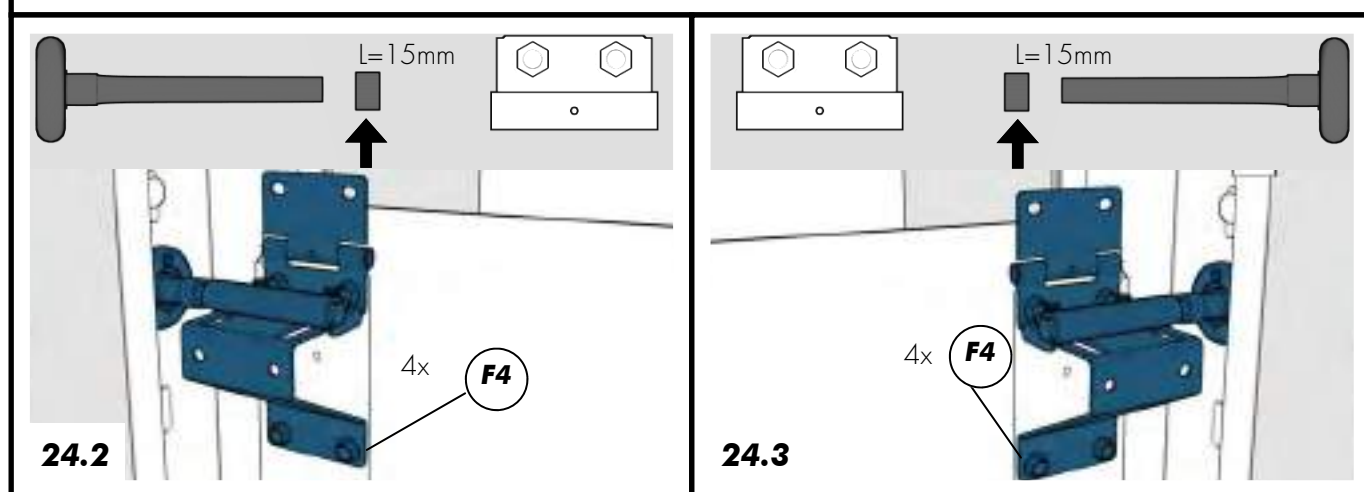
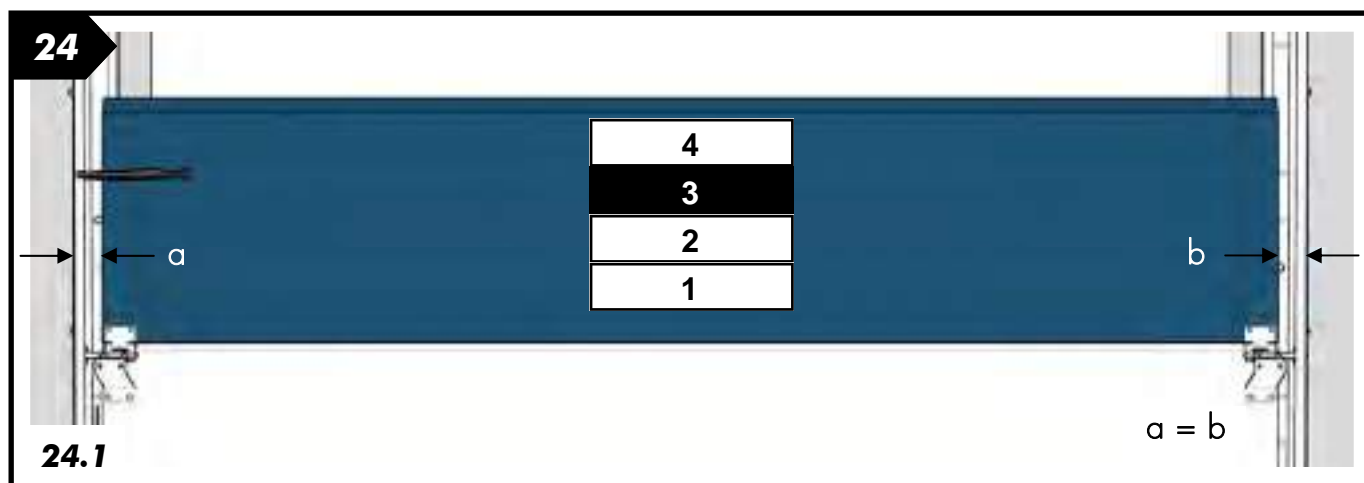
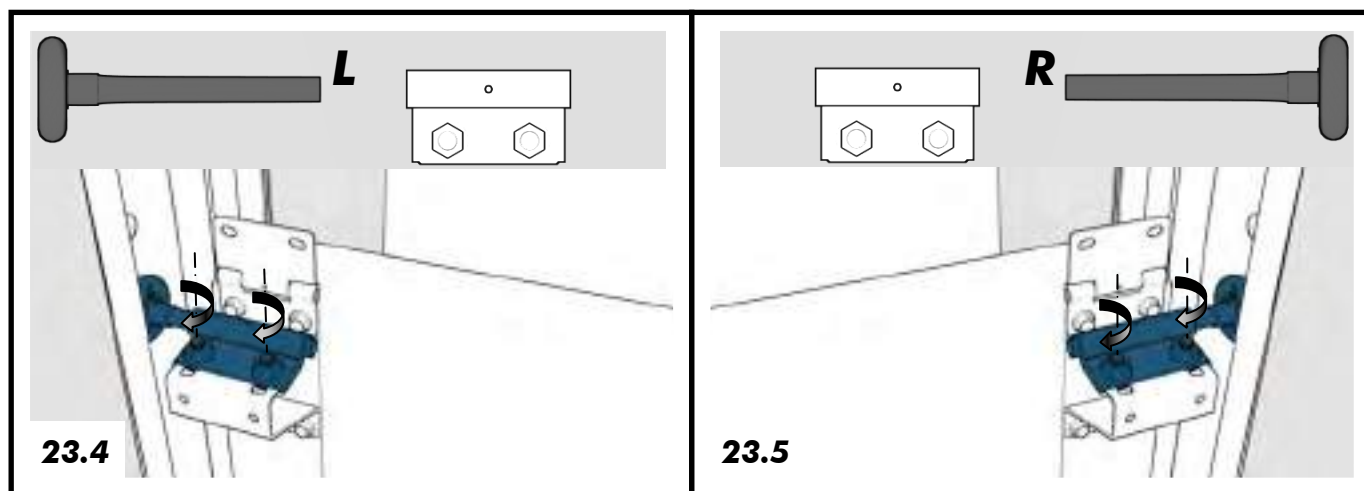
20

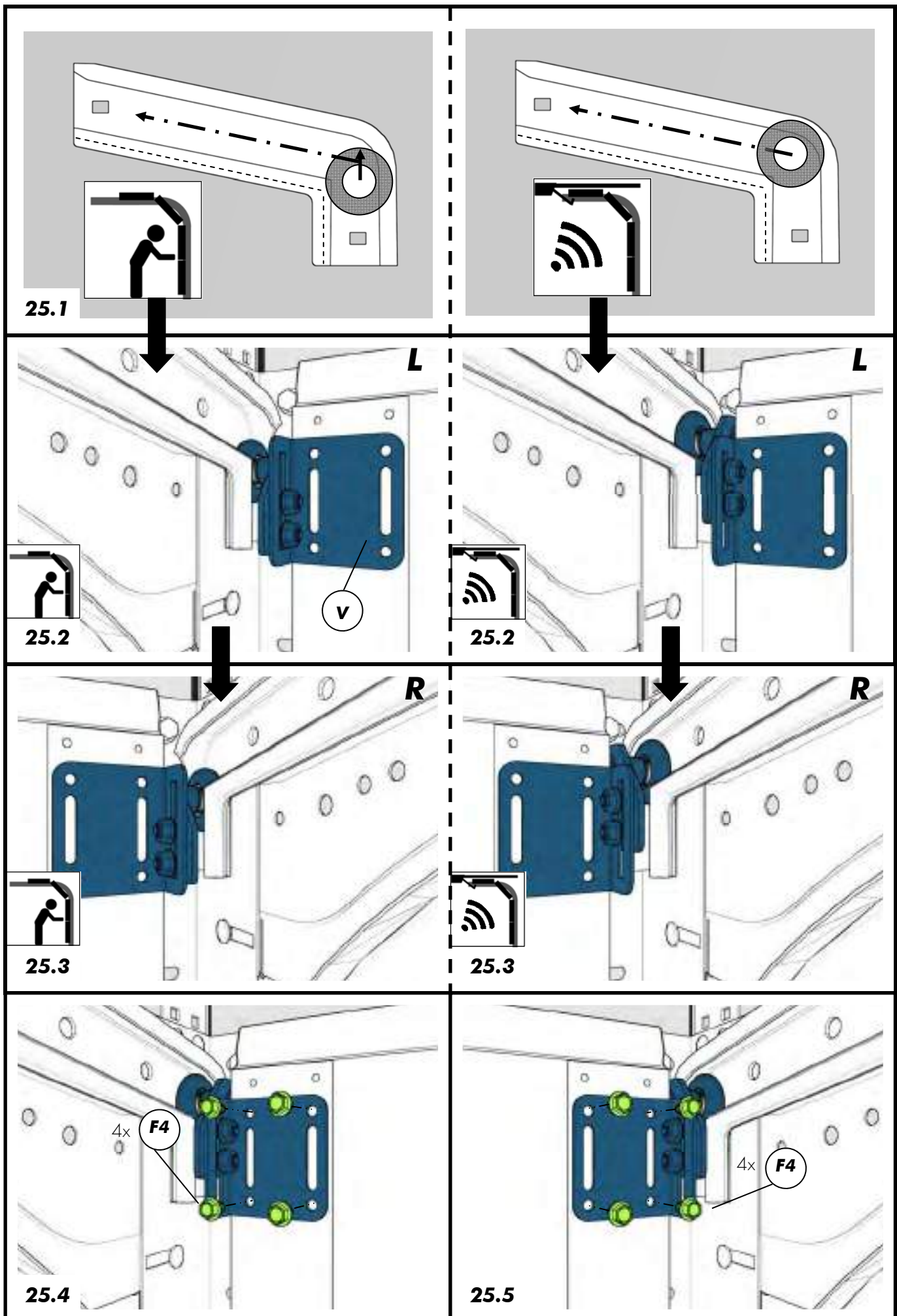
**REFER TO CANIMEX DT-0155
FOR COMPLETE INSTALLATION
PROCESS OF SPRING BREAK DEVICE**

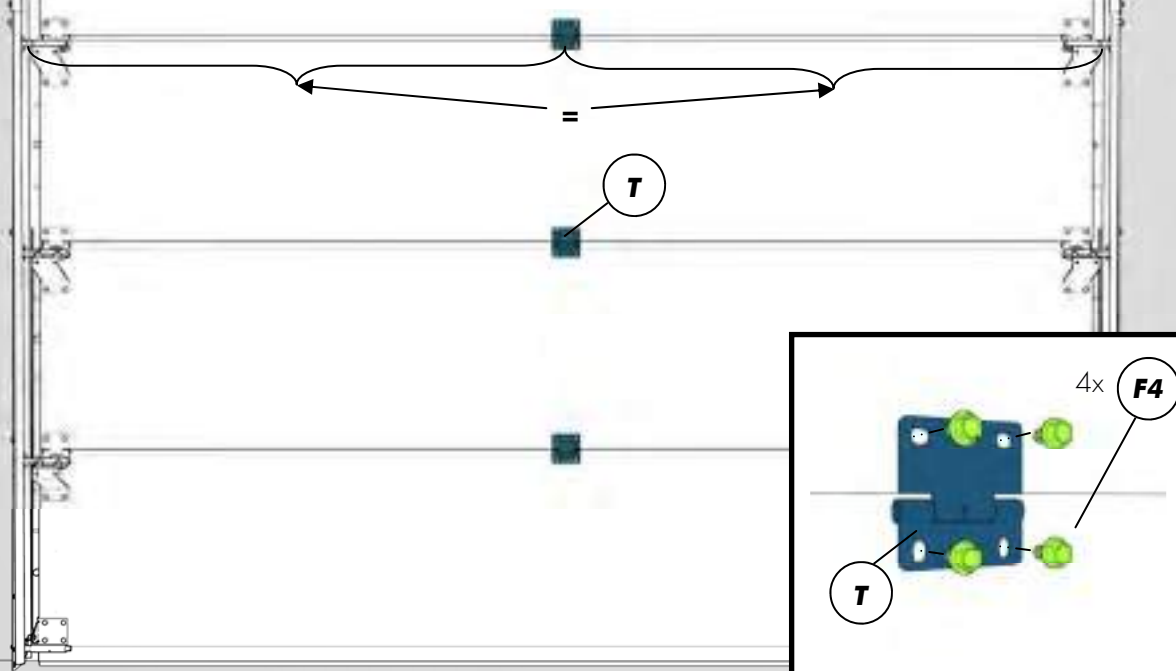
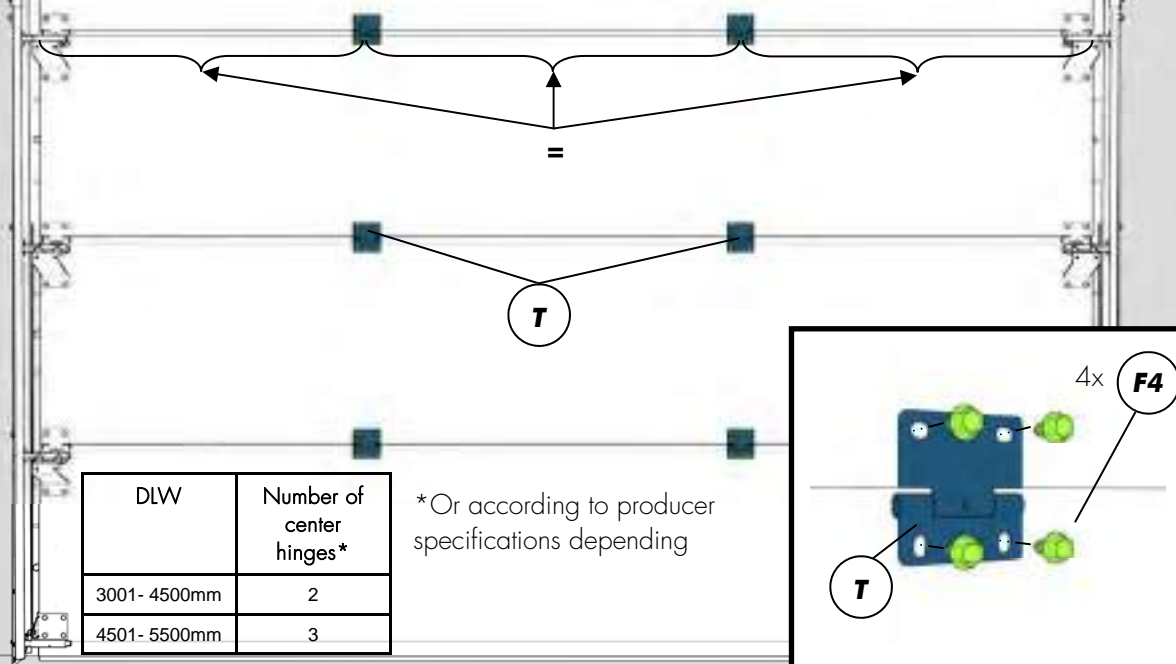
**21**







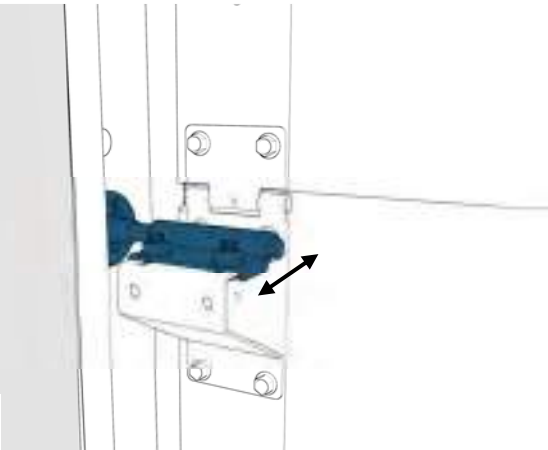
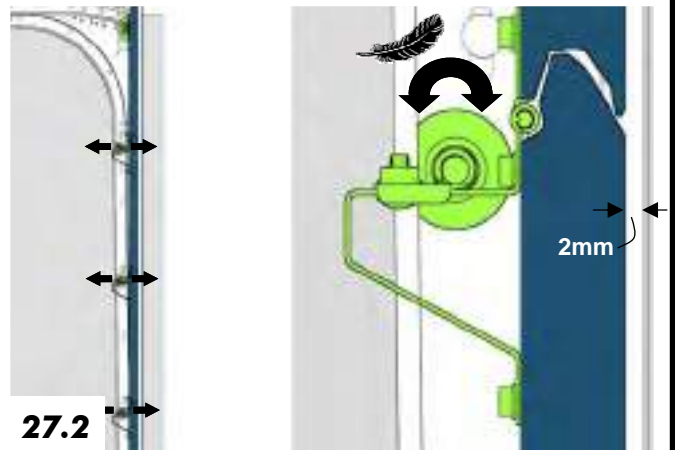
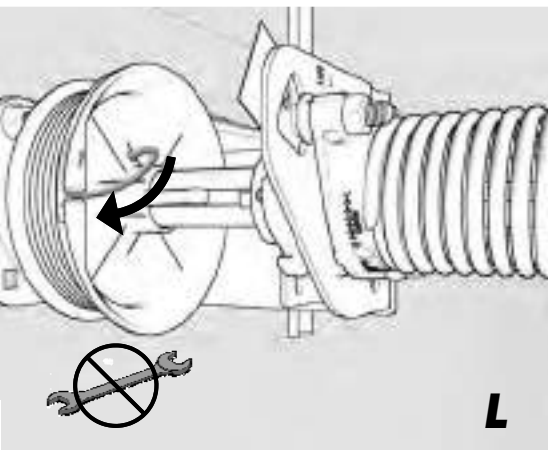
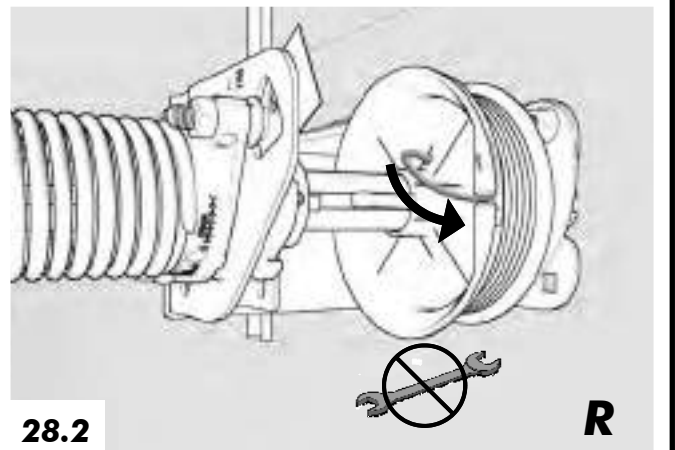
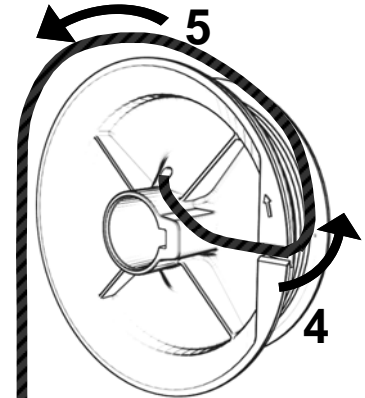
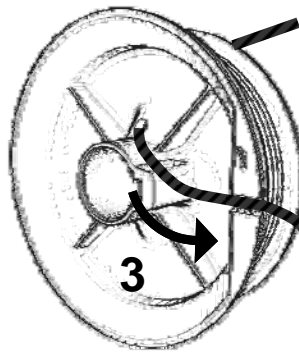
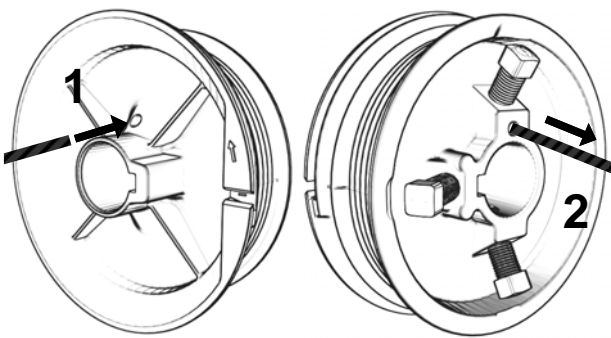
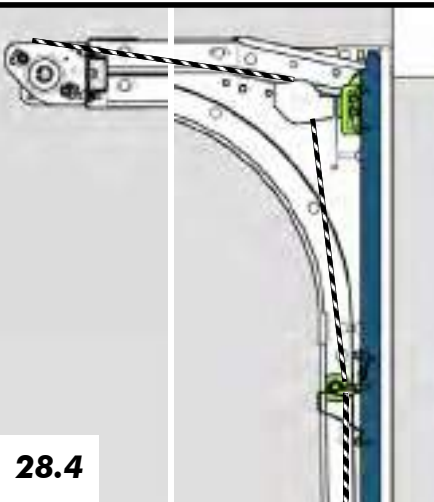
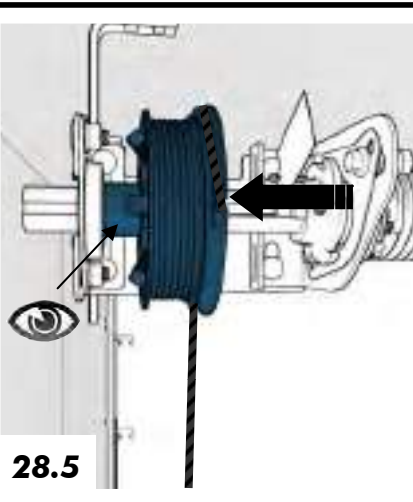
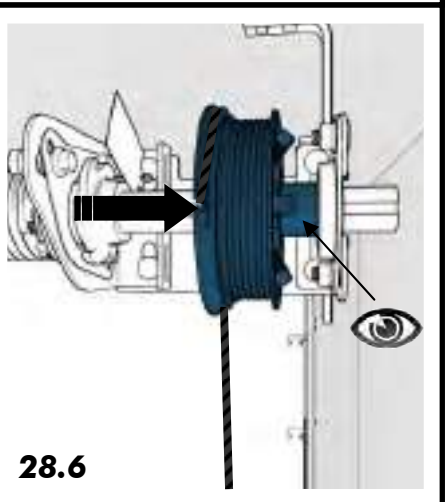


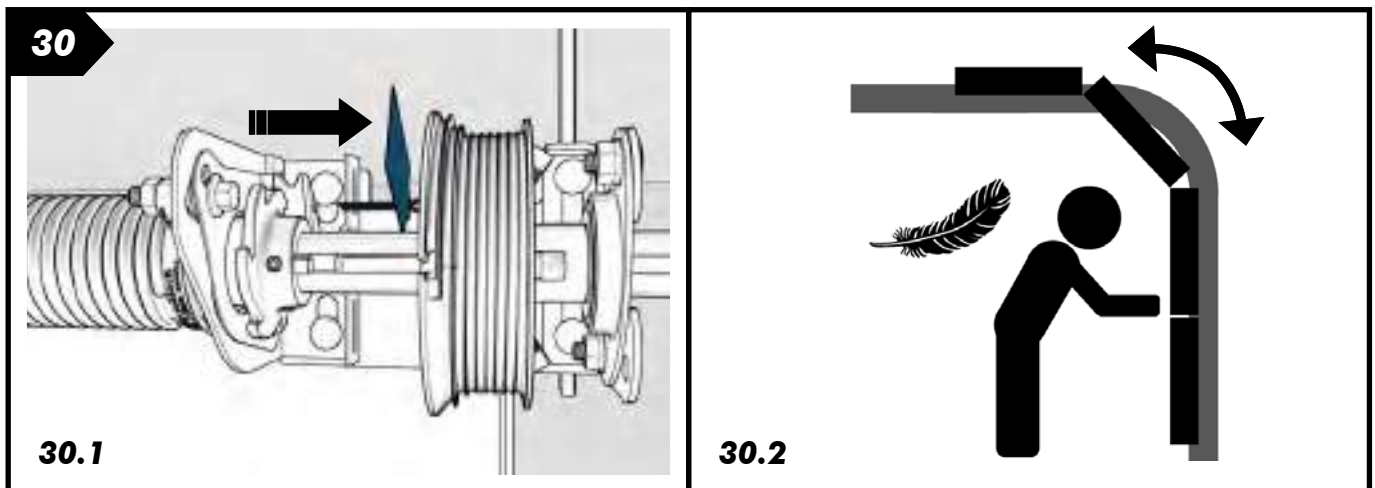
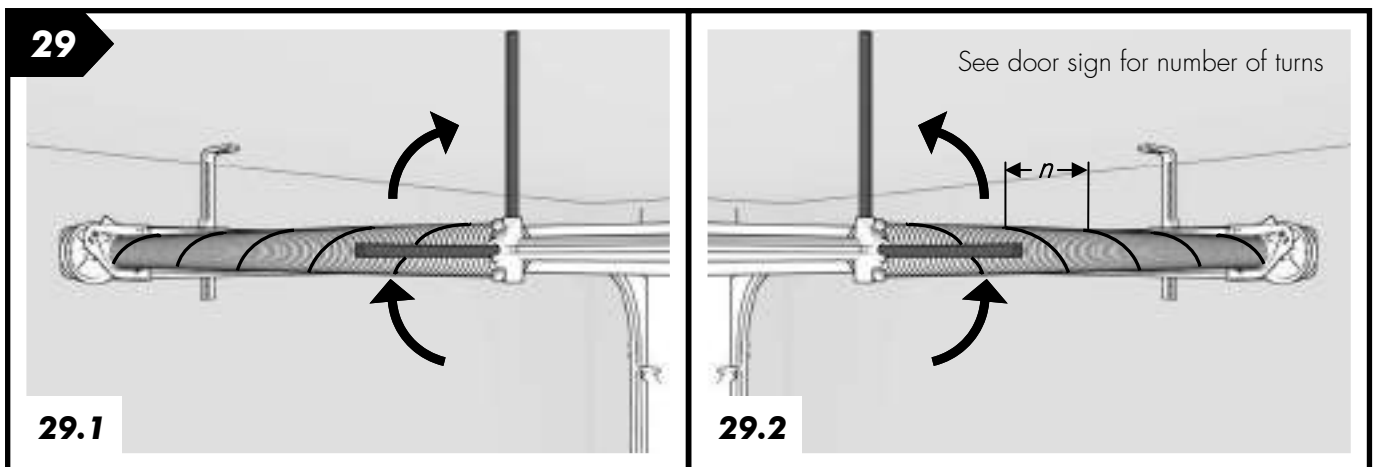
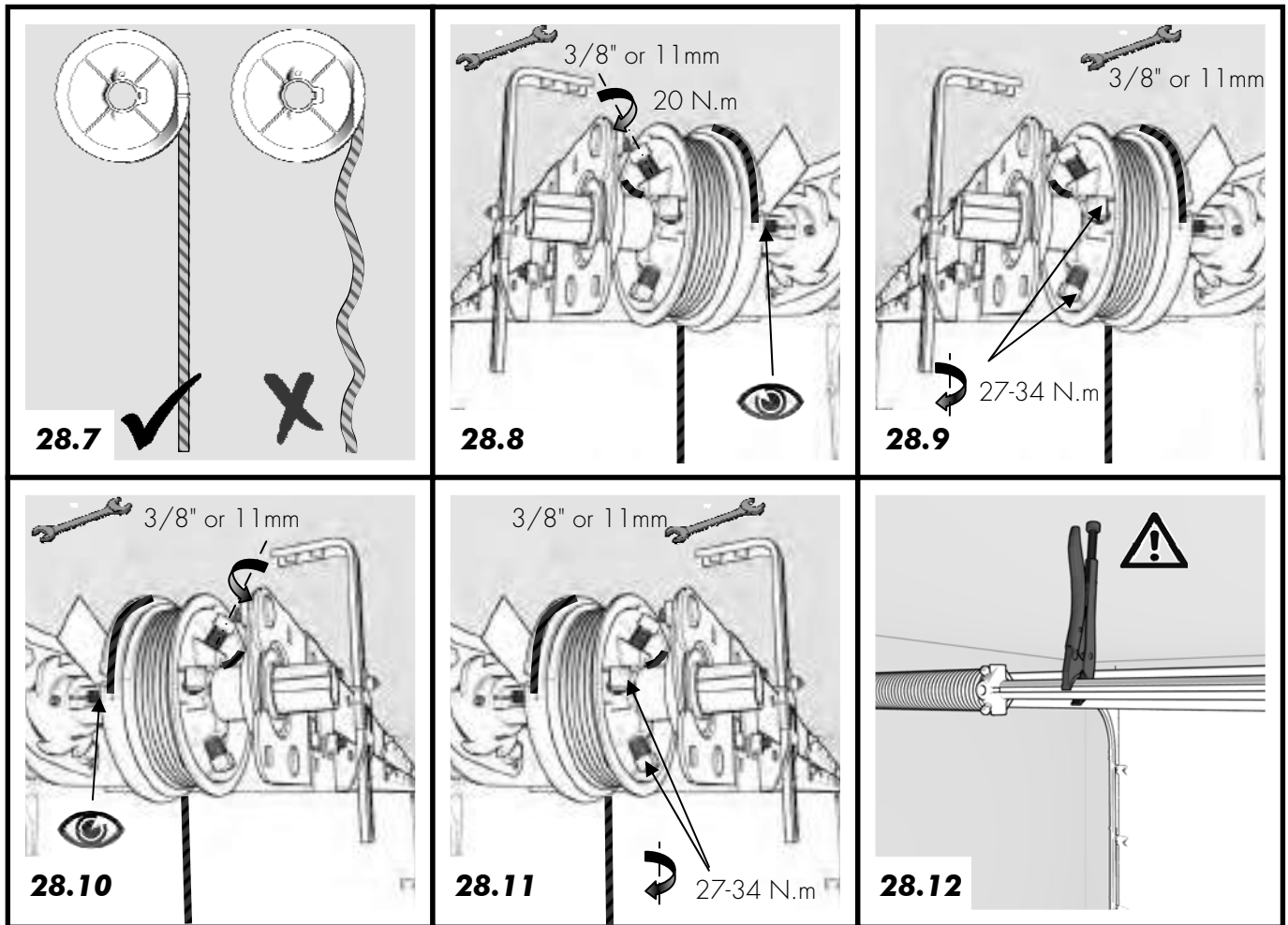
26**DLW ≤ 3000****26.1****DLW > 3000**

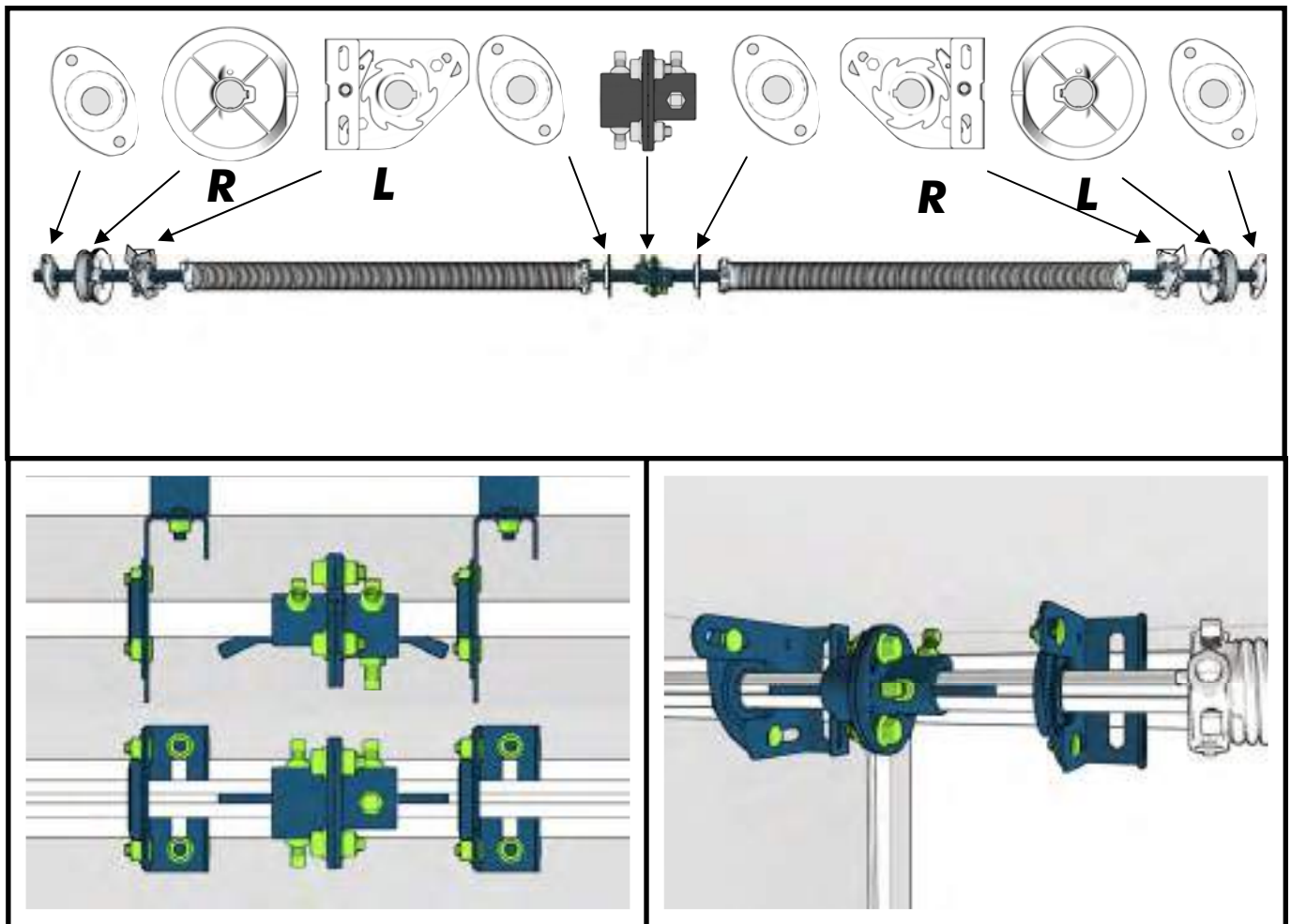
DLW	Number of center hinges*
3001- 4500mm	2
4501- 5500mm	3

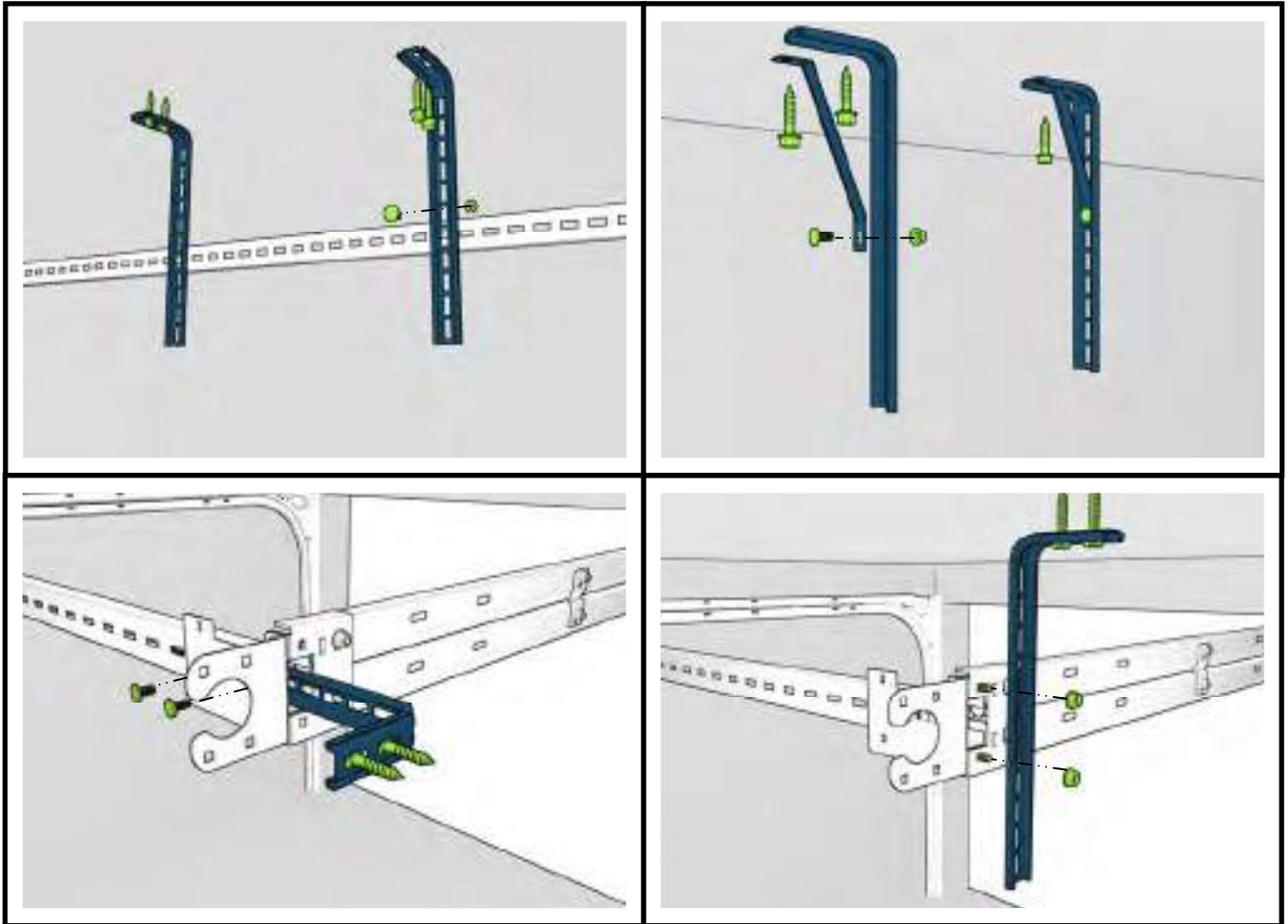
*Or according to producer specifications depending

26.2

27**27.1****27.2****28****28.1****L****28.2****R****28.3****1/2 TURN MINIMUM****28.4****28.5****28.6**



ANNEXE 1 Couplings option

ANNEXE 2 HANGING Option

OPERATION

Operating the door

WARNING

Danger of injury during door travel

The sectional door closes to the bottom vertically; persons or objects may be trapped.

- When operating, make sure that neither persons, children in particular, nor objects are located within the door's area of travel.
- Always keep the opening area of the door clear.
- Do not operate the door in strong winds.

The door must only be operated by **properly instructed** persons. If the sectional door is adequately assembled and inspected, it can be easily operated and moved.

WARNING

Danger of injury due to improper operation

Persons or objects may be trapped if the door is operated improperly.

- Only open and close the door using the supplied operating elements; these ensure a controlled, smooth action.
- When closing the door, make sure that the latches engage fully and properly.

Power operated doors

The automation of a sectional door requires that special safety regulations be observed. Consult your door operator supplier.

PARTS EXPOSED TO WEAR AND TEAR TO BE REPLACED

Mandated Test: Durability test conducted at SP.

The worst case scenario was tested = MAX door weight of 184 kg.

The following parts listed below have to be replaced during the product's expected lifetime:

After 20,000 cycles:

- Springs
- Lifting cables

MAINTENANCE INSTRUCTIONS

An overhead door should be maintained and checked regularly to ensure safe operation and use. In accordance with CEN product standard EN 13241-1

WARNING

Danger of injury due to defective safety components

Important safety components may fail or become defective if not sufficiently inspected and maintained.
-Have a trained and qualified person perform inspection and maintenance work at regular intervals.

Danger of injury due to high cable tension and high torques

Cables and springs are under high tension and torques. Damaged cables or springs may also cause serious injuries.

- Fix the door leaf to prevent uncontrolled movement before replacing damaged cables or springs.
- Be particularly careful when replacing damaged cables or springs.

Danger of injury due to uncontrolled door drops

If the system counterbalancing has not been properly adjusted, this may result in an uncontrolled door drop, which could trap persons or objects.

- Re-tension the torsion springs.

High torque

Springs are under high torque stress and may discharge high forces if they are not secured during tensioning.

- Fix the door leaf to prevent uncontrolled movement before adjusting the torsion spring shaft.

After installation:

1. Grease running part of the tracks
2. Grease the bearings of the rollers
3. Grease the shafts of the rollers
4. Grease the bearings of the shaft
5. Grease the hinge pins
6. Grease the lock

REGULAR MAINTENANCE

Trained and qualified person
Trained and qualified person
Trained and qualified person
Trained and qualified person
Trained and qualified person
Trained and qualified person

After 3 months:

1. Complete inspection visually
2. Check balancing system and adjust if needed
3. Grease all the above mentioned points if needed

Trained and qualified person
Trained and qualified person
Trained and qualified person

Every 6 months (or after every 750 cycles):

1. Check side seals for damage or wear and tear
2. Check top seal for damage or wear and tear
3. Check bottom seal for damage or wear and tear
4. Grease all above mentioned points
5. Clean the panels
6. Clean the windows (only water wash, do not use cloth)
7. Remove dirt and waste from the door or its surroundings

USER
USER
USER
USER
USER
USER
USER

Every 12 months (or after every 1500 cycles):

1. Check or test the fixation of the springs to the fittings
2. Check the balance of the door and adjust if needed
3. Check the cables for damage or wear and tear
4. Check the cable connection points on drums and bottom bracket
5. Check the roller for wear and free moving space
6. Check the hinges on breaking
7. Check the panels for damages, wear and rust
8. Check the spring breaking device acc. to instructions in manual
9. Check and test the safety edge system with operator
10. Check the manual operation of the door
11. Grease the springs

Trained and qualified person
 Trained and qualified person
 Trained and qualified person
 Trained and qualified person
 Trained and qualified person
 Trained and qualified person
 Trained and qualified person
 Trained and qualified person
 Trained and qualified person
 Trained and qualified person
 Trained and qualified person

After two years (or after every 3000 cycles):

1. Grease all the above mentioned points
2. Check or test the fixation of the springs to the fittings
2. Check the balance of the door and adjust if needed
3. Check the cables for damage or wear and tear
4. Check the cable connection points on drums and bottom bracket
5. Check the roller for wear and free moving space
6. Check the hinges for breaking
7. Check the panels for damage, wear and rust
8. Check the spring breaking device acc. to instructions in manual
9. Check and test the safety edge system with operator
10. Check the manual operation of the door
11. Grease the springs
12. Check side seals for damage or wear and tear
13. Check top seal for damage or wear and tear
14. Check bottom seal for damage or wear and tear
15. Check the shaft for wear and tear or damage
16. Check the bottom bracket for wear and tear and damage
17. Check the connection of the drum to the shaft (keys!)
18. Check and re-fix the bolt of the coupler
19. Check the connections of the track system
20. Check the suspension of the door to the lintel and ceiling

Trained and qualified person
 Trained and qualified person
 Trained and qualified person
 Trained and qualified person
 Trained and qualified person
 Trained and qualified person
 Trained and qualified person
 Trained and qualified person
 Trained and qualified person
 Trained and qualified person
 Trained and qualified person
 Trained and qualified person
 Trained and qualified person
 Trained and qualified person
 Trained and qualified person
 Trained and qualified person
 Trained and qualified person
 Trained and qualified person
 Trained and qualified person
 Trained and qualified person
 Trained and qualified person
 Trained and qualified person

Use for greasing : PTFE or SAE20 or WD40

Use for cleaning : Soft soap with water. Do not use aggressive soap or cloth.

DISMANTLING INSTRUCTIONS

Dismantle the door in accordance with these assembly instructions, in the logically reverse order.

MANUFACTURER:

Canimex Incorporated
 Torque Force division
 285 St-Georges Street
 Drummondville, Québec, Canada
 J2C 4H3
 Tel: 819.477.1335
 Fax: 819.477.0776
 E-mail: torqueforce@canimex.com
 Internet: www.canimex.com

