

Installation Manual

REN-70

DOCO

door-solutions



Contents

1.	Symbols	3
2.	General warnings	3
2.1	Safety requirements for assembly and first use	3
3.	Terms and conditions	3
4.	Area of application	3
5.	Guidelines	4
6.	Fixing material building	4
7.	System summary	5
7.1	Pre-assembled rail set	5
8.	Fasteners/ tools	6
9.	Assembly	7
10.	Handover	38
10.1	First use	38
11.	Electric operator (optional)	38
11.1	To adjust the operator	38
12.	Disassembly	38
12.1	Disposal	38
13.	Maintenance	39

1. Symbols



Danger



Attention



Additional manuals

2. General warnings

This manual has been prepared for use by qualified personnel and therefore not by trainees or “do it yourselfers”
In case of doubt about the assembly and/or maintenance, please contact DOCO International
To avoid severe personal injury, carefully read and observe all indications and warnings in this manual.

- This manual describes the assembly, use and maintenance of your residential system /door REN70; this may be supplemented by other manuals, for instance the spring break device manual and operator manual (if applicable.)
- This residential system has been designed in accordance with the latest European standards; however you have to check yourself whether this standard corresponds with the local national standard.
- All measurements are in millimetres unless otherwise specified.
- After installation ensure that the CE marking label has been completed and attached.
- Keep this manual in a safe place.
- Subject to technical changes, without written notice.

2.1 Safety requirements for assembly and first use.

- This residential system may only be mounted, connected and put into operation by qualified personnel.
- Make sure that the power is switched off and remains switched off while electrical work is carried out!
- Never bridge safety devices !
- Adding or leaving out parts can affect the door operation in a negative way and therefore the safety of the installed sectional door. This is therefore strongly discouraged!
- Some parts can contain sharp edges: use protective gloves.
- All references to the door/component handing within this manual is always as viewed from inside looking out.
- Never use the sectional door in case of visual damage on the safety devices.
- When performing assembly/maintenance, always wear at least gloves and safety boots and during drilling/cutting wear safety goggles!
- Make sure that you can always perform your work in a stable environment.
- Secure the assembly/maintenance site with safety ribbon to keep others (children!) at a distance.
- Maintenance must only be performed by a qualified company and/or qualified personnel.
- Make sure there is enough light.
- Only use appropriate tools, especially when tensioning the torsion springs.

3. Terms and conditions

Our general conditions of delivery and payments are applicable on all our offers, agreements or subsequent revisions.
A copy of our terms and conditions are available on request or can be downloaded from our website: www.doco-international.com.

4. Area of application

This hardware set has been developed for installation in garages in the private sector

- Maximum width 5000 mm
- Maximum height 3000 mm
- Weight door leaf maximum 165 kg
- Maximum temperature range outside* : -20 degr until + 50 degr C
- Relative humidity 20 – 90%
- Lifetime : 25.000 cycles (unless the torsion springs have been calculated for this)

* big differences in temperature between the inside and outside can cause deflection in the panel leafs (bi-metal effect). In particular dark coloured panels are susceptible to this problem and should be avoided. Care should be taken during manual handling as there is a big risk of damage.

5. Guidelines

DOCO International had carried out the "Product Test" of this door (Initial Type Testing = ITT) by the SP institute in Sweden, known as Notified Body No. 0402.

Documents regarding this ITT can, in consultation with DOCO, be transferred to the company which produces the door. This is necessary to complete a CE-dossier.

NOTE: CE-approved only using the correct DOCO-components.

It is the responsibility of the installation company to ensure that the chosen E-operator and panels conform to the product standard EN13241-1 and have carried out the necessary ITT.

If a wicket door is to be installed, it is the responsibility of the installation company to ensure that the complete door conforms to the product standard EN13241-1 and have carried out the necessary ITT.

6. Fixing material building

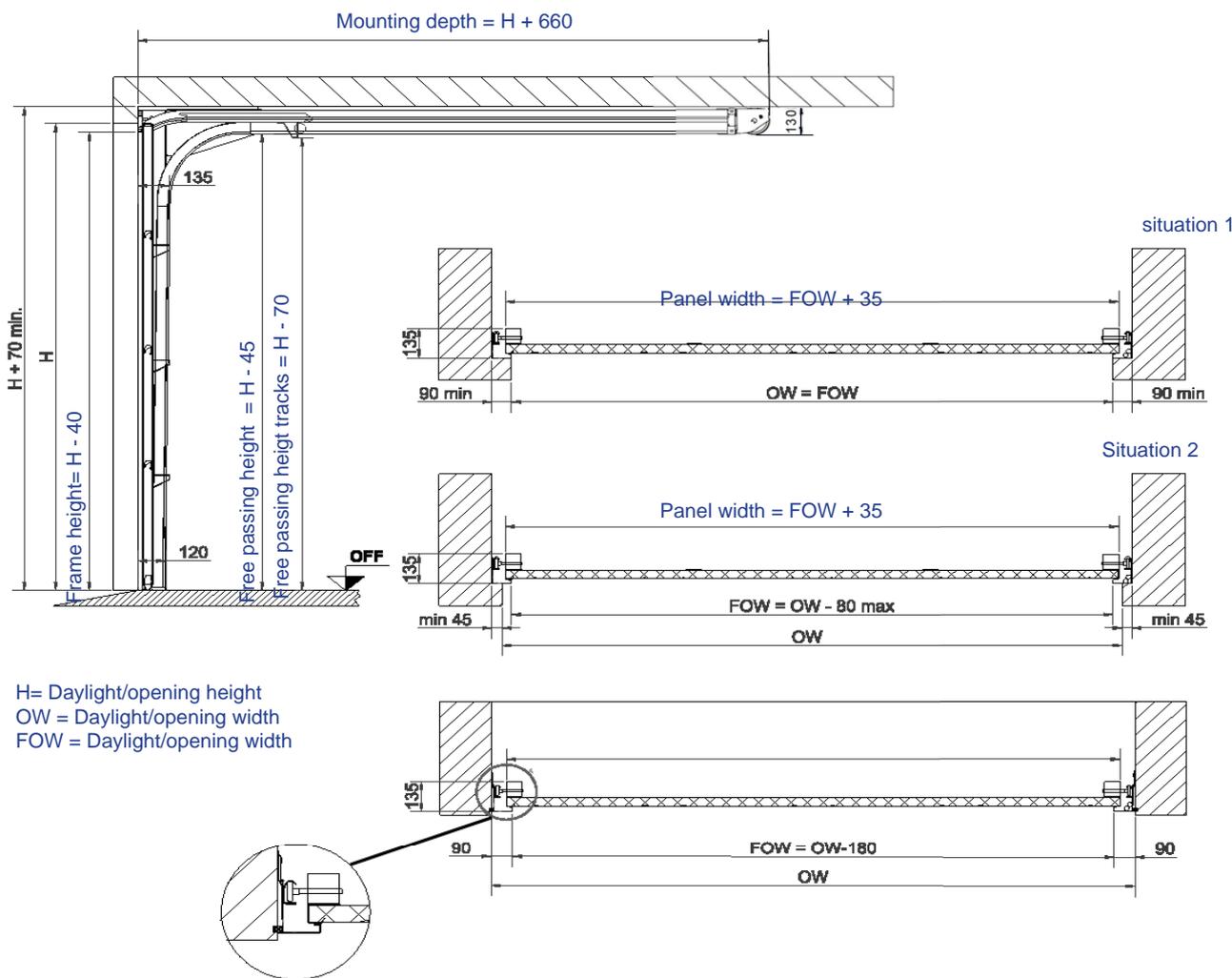
The necessary fixings to ensure the garage door to the building and/or ceiling, are not included!

It is the responsibility of the installer to make sure that the building structure is safe/strong enough, to accept the door and its fixings.

The installer is also responsible for using the correct fixing materials on the right foundation (stone, concrete, steel, wood).

In the image section there will be therefore no specification included.

7. System overview



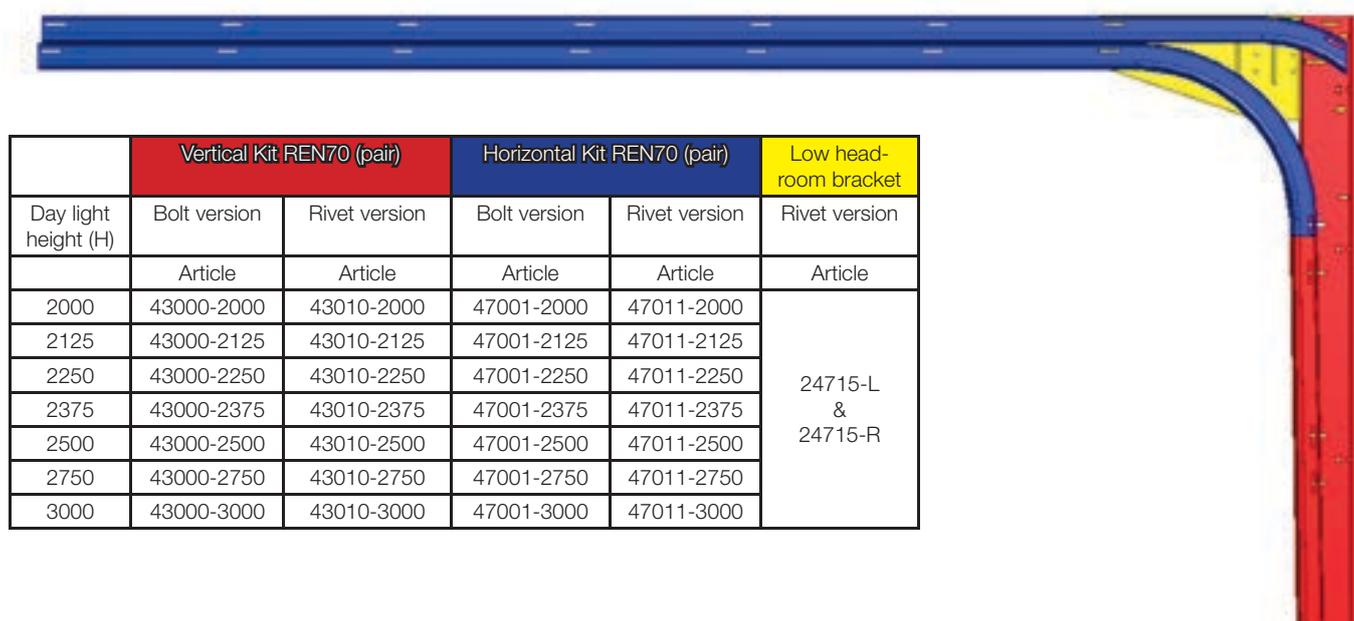
7.1 Pre assembled track sets overview REN 70 system

Horizontal kit REN 70 (pair).

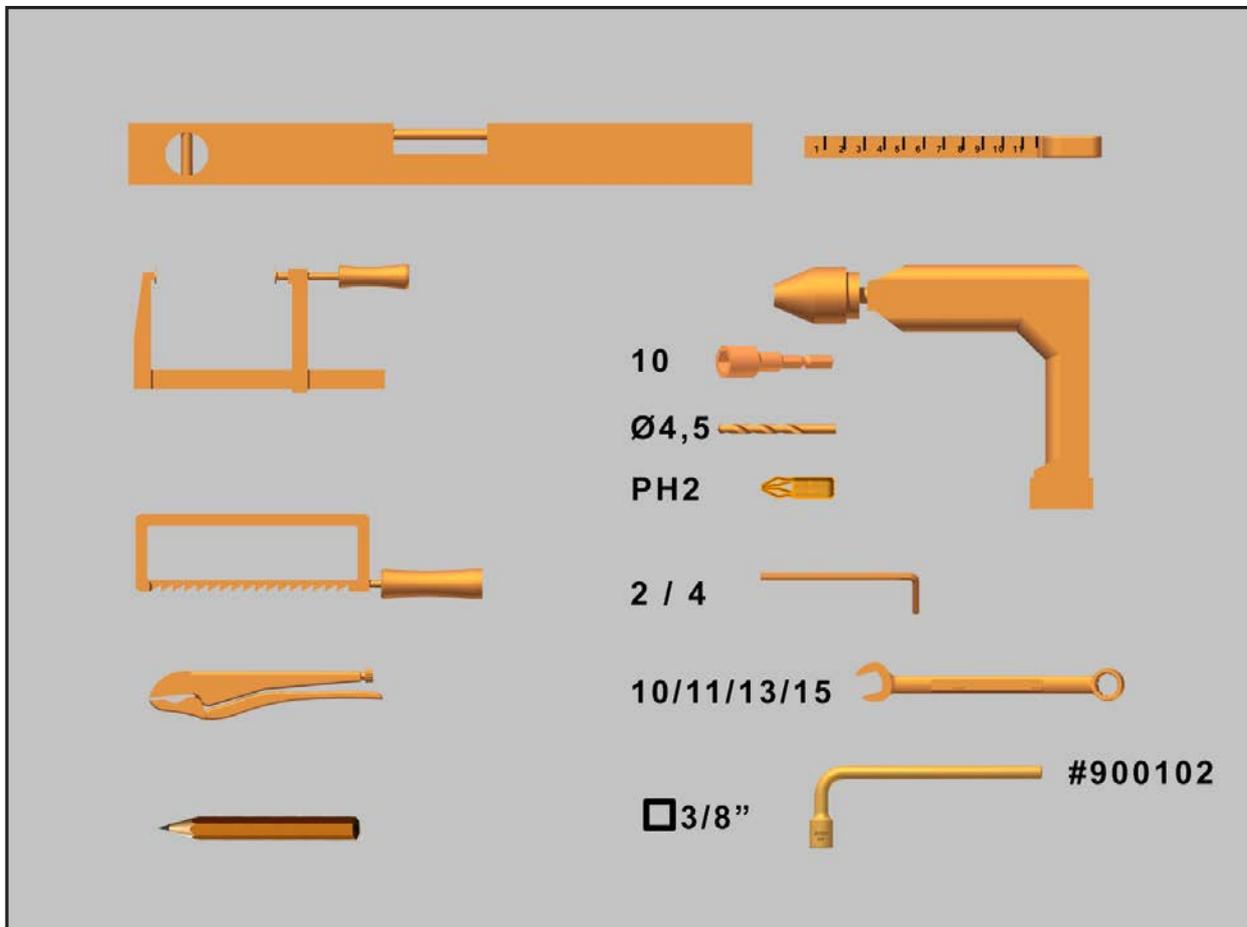
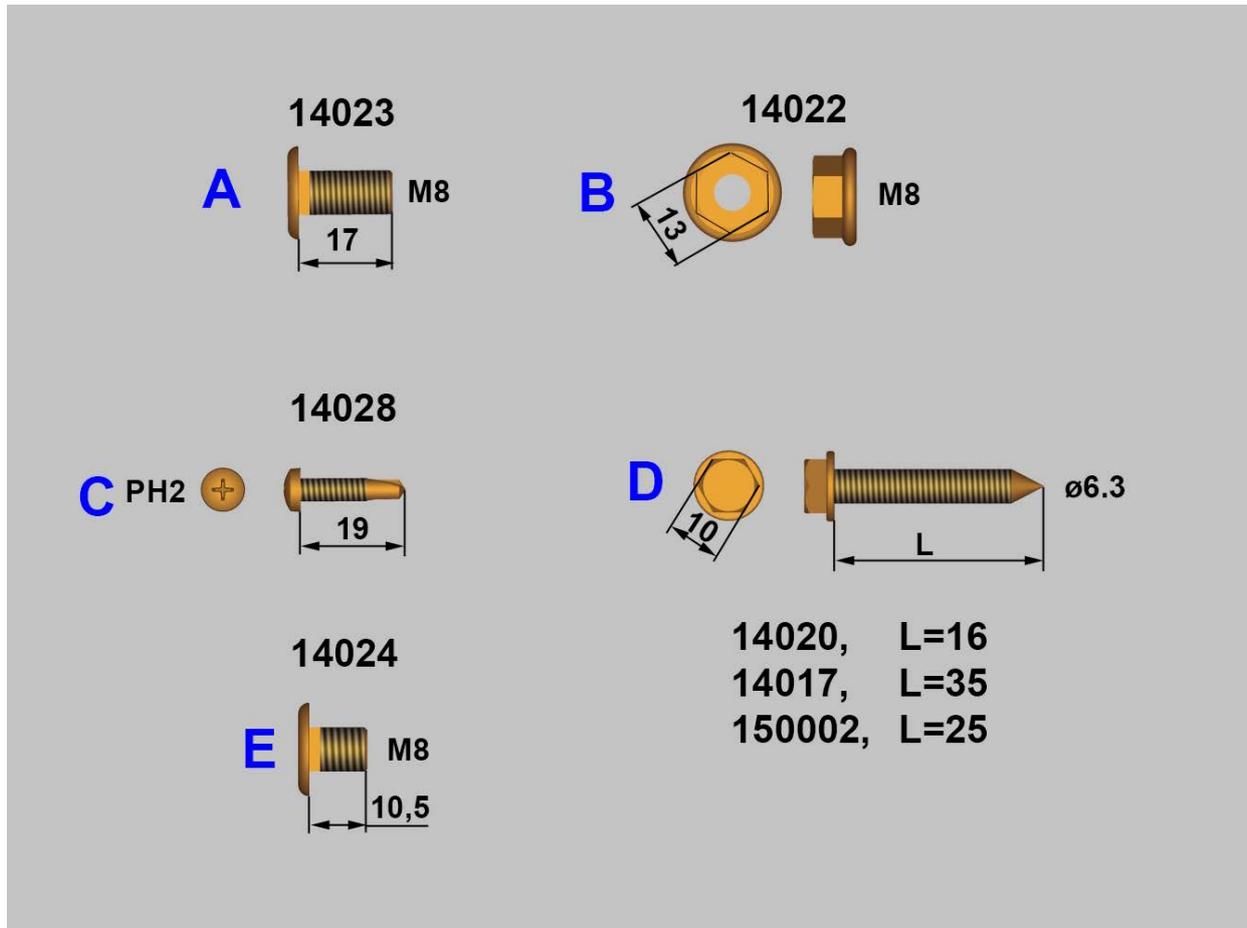
**Curve Kit
REN 70 (pair)**

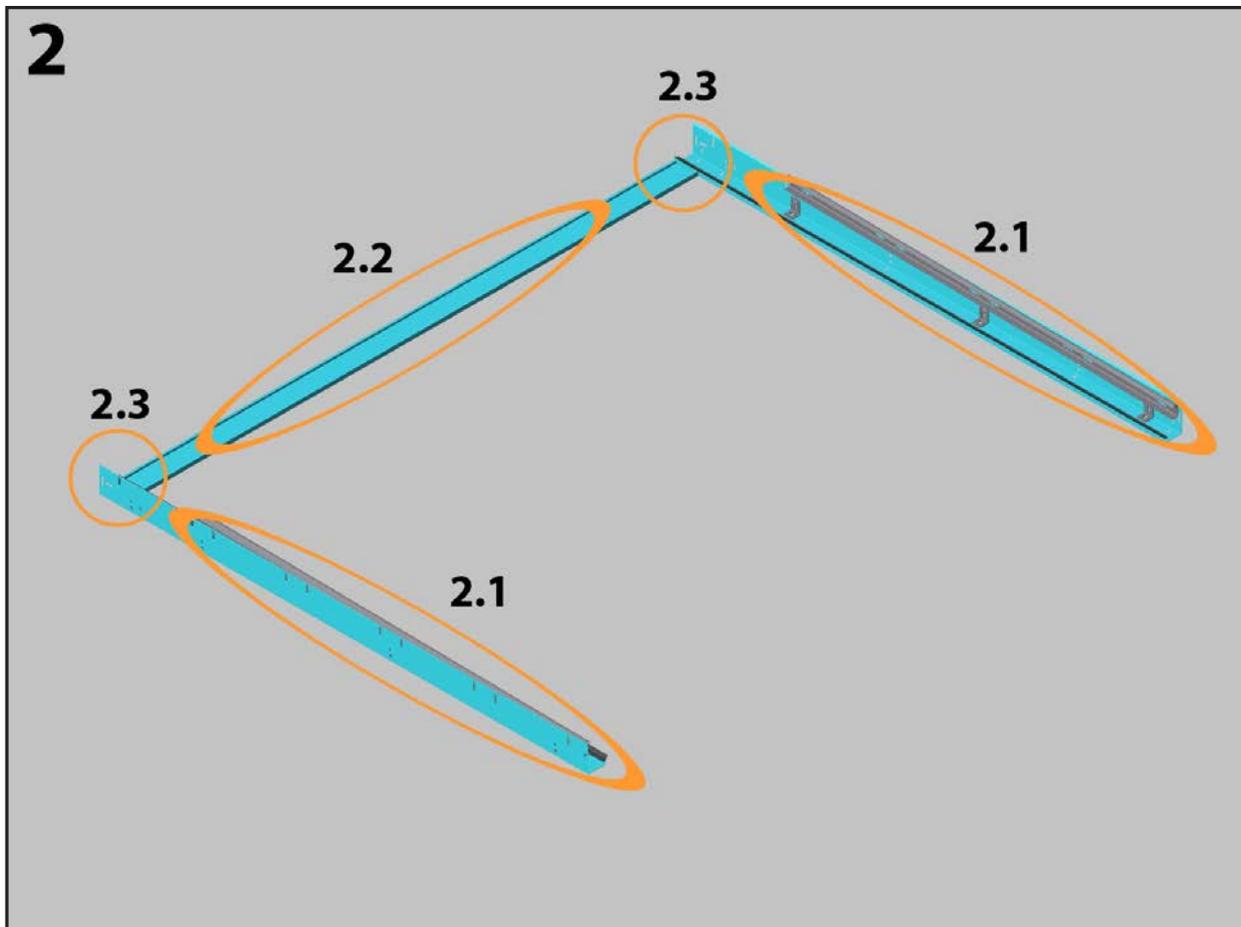
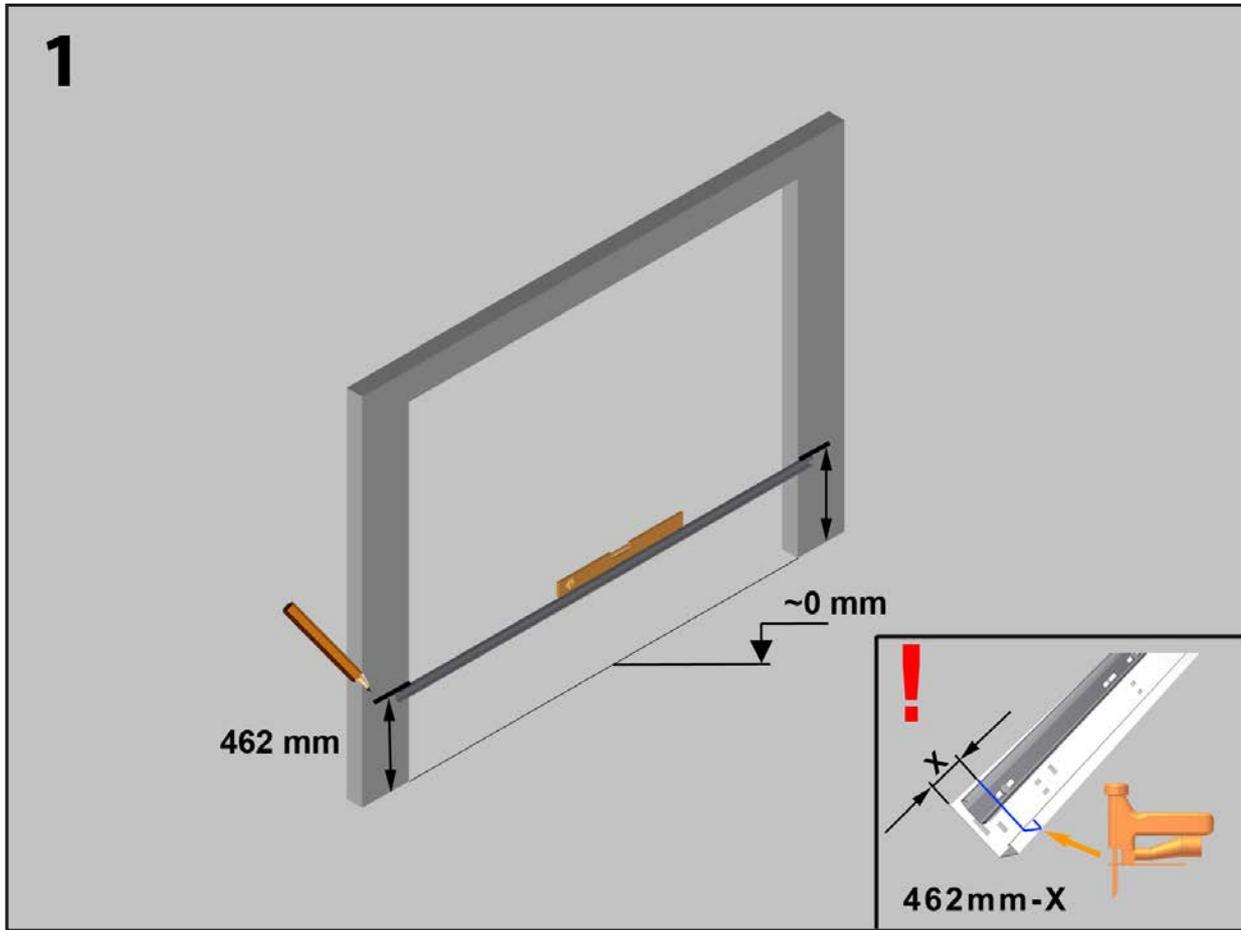
Day light height (H)	Vertical Kit REN70 (pair)		Horizontal Kit REN70 (pair)		Curve Kit REN70 (pair)
	Bolt version	Rivet version	Bolt version	Rivet version	Rivet version
	Article	Article	Article	Article	Article
2000	43000-2000	43010-2000	43001-2000	43011-2000	43012
2125	43000-2125	43010-2125	43001-2125	43011-2125	
2250	43000-2250	43010-2250	43001-2250	43011-2250	
2375	43000-2375	43010-2375	43001-2375	43011-2375	
2500	43000-2500	43010-2500	43001-2500	43011-2500	
2750	43000-2750	43010-2750	43001-2750	43011-2750	
3000	43000-3000	43010-3000	43001-3000	43011-3000	

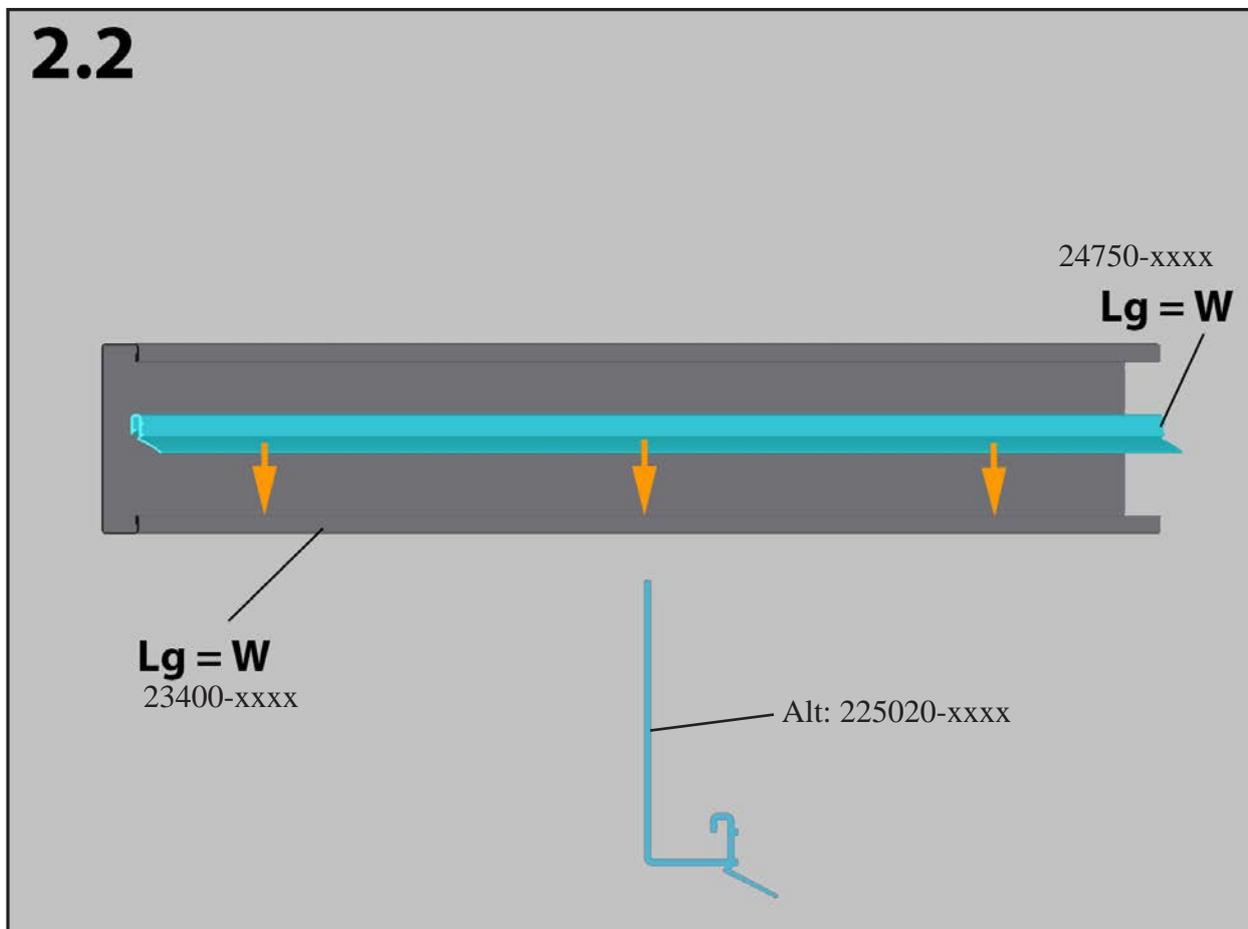
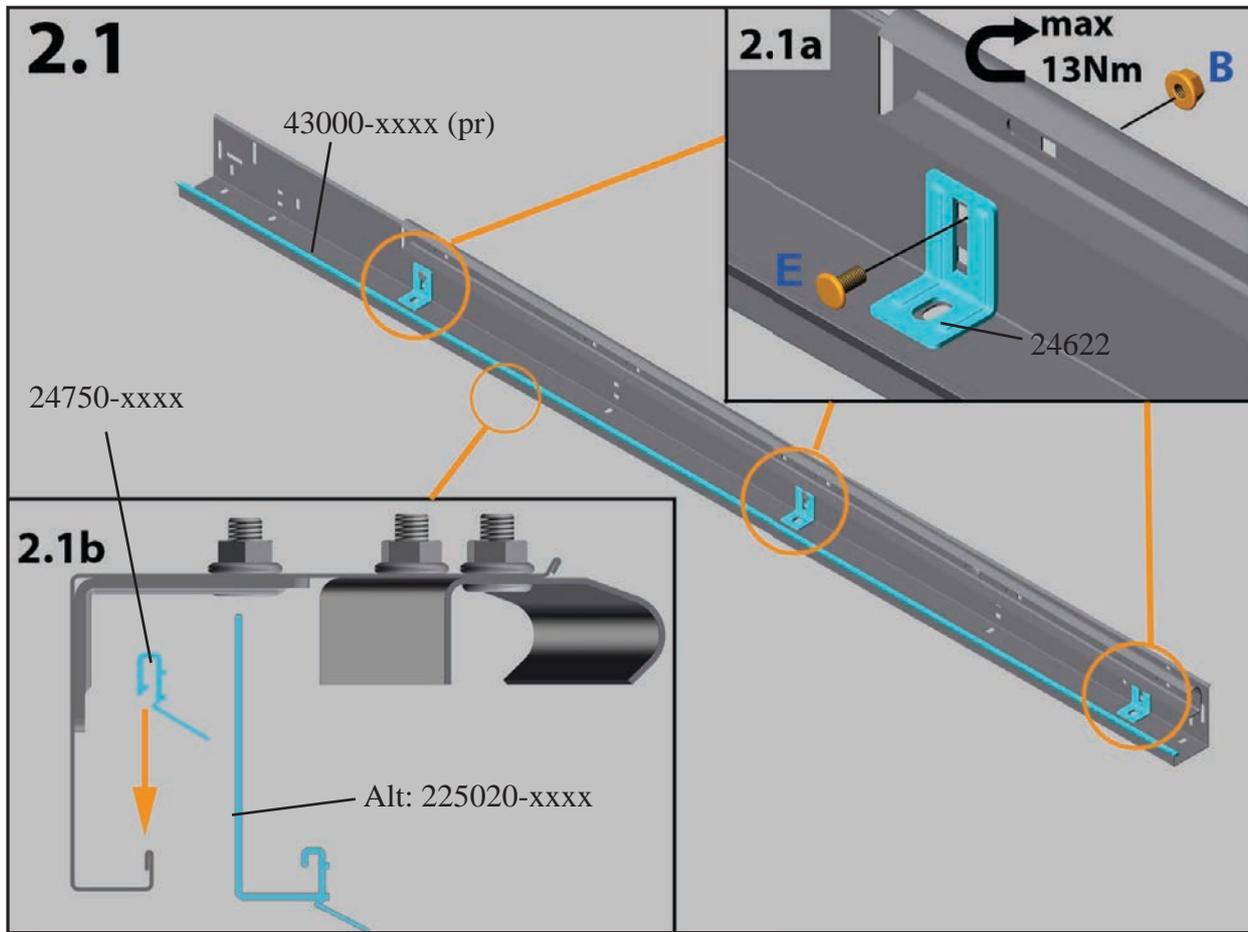
**Vertical kit
REN70 (pair)**

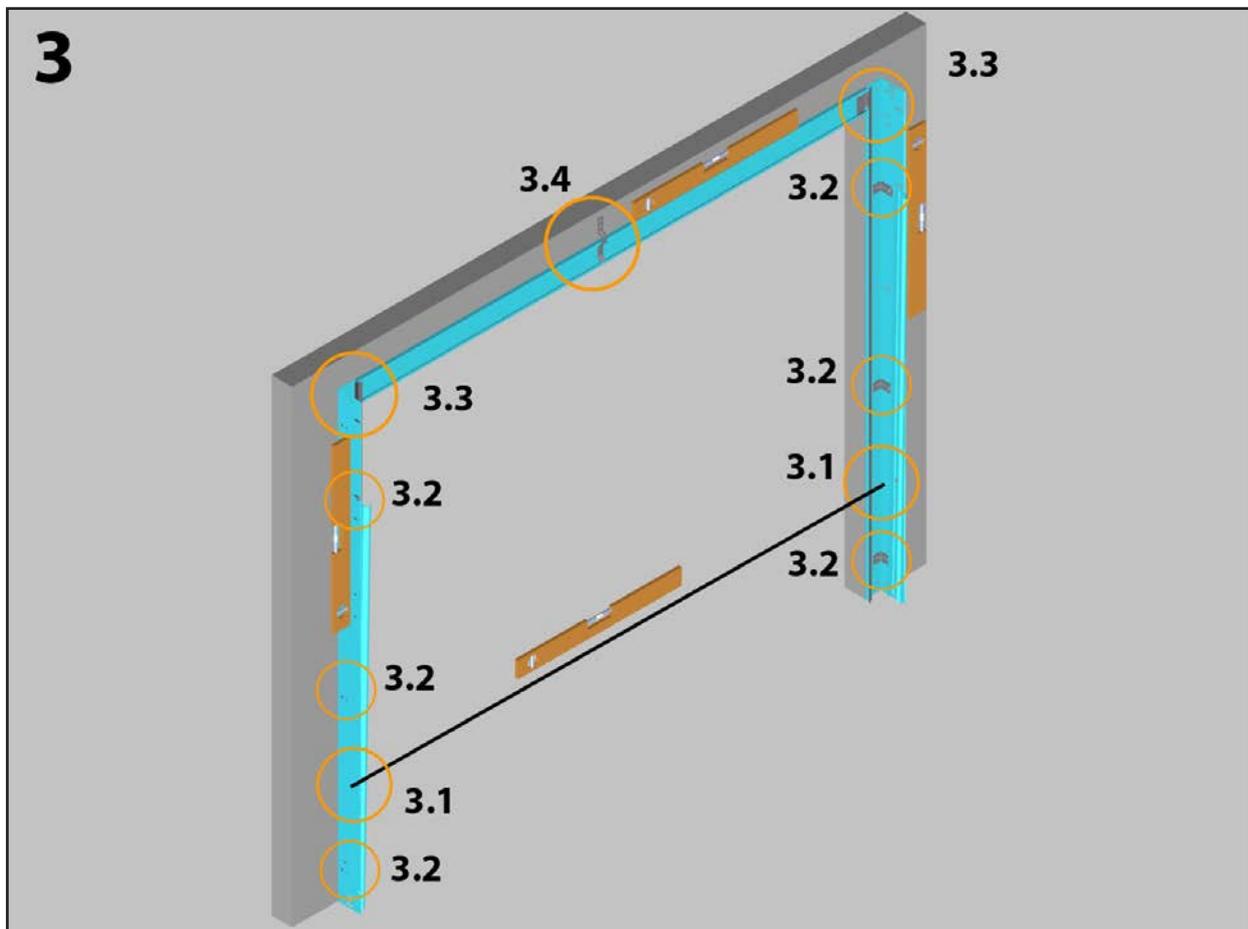
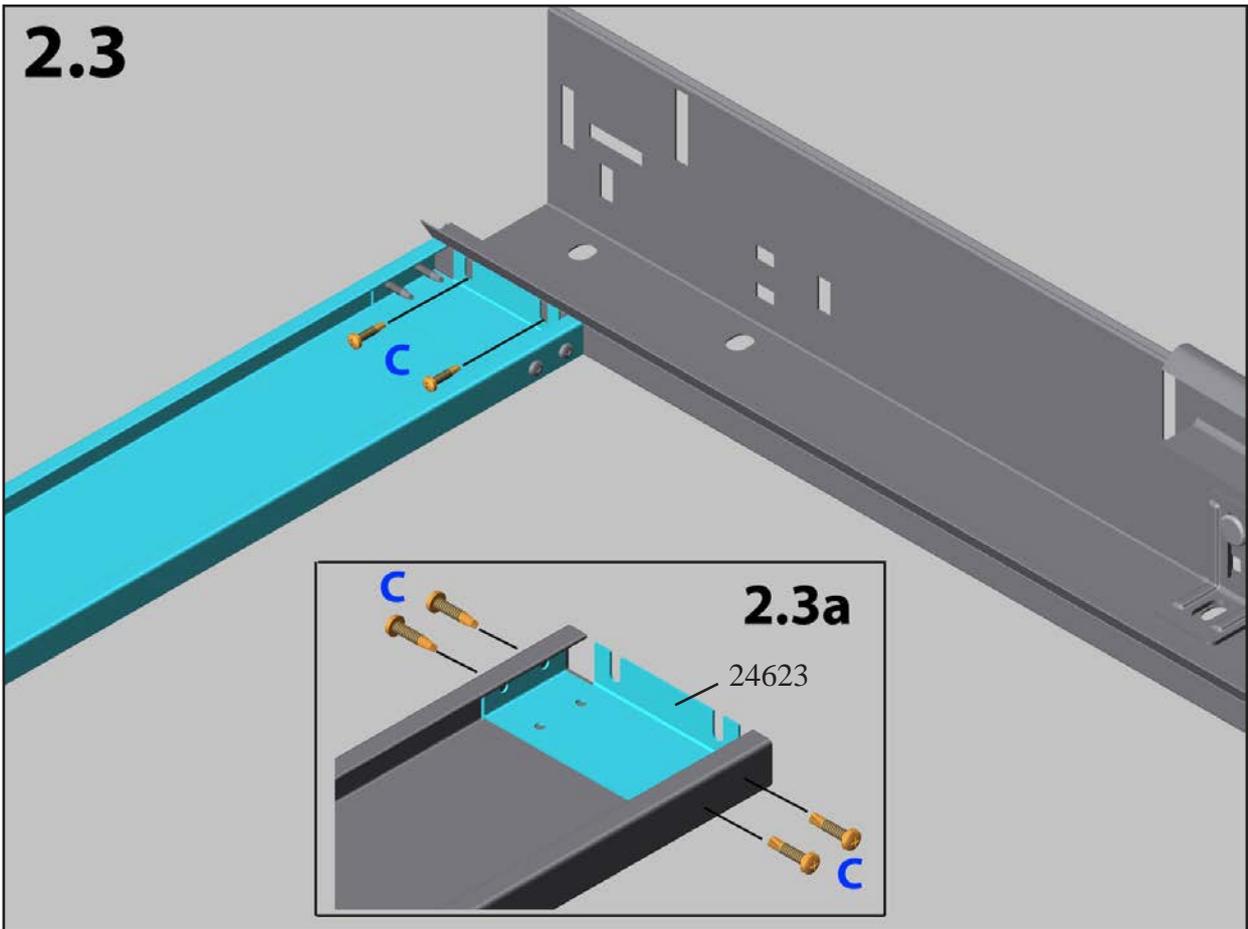


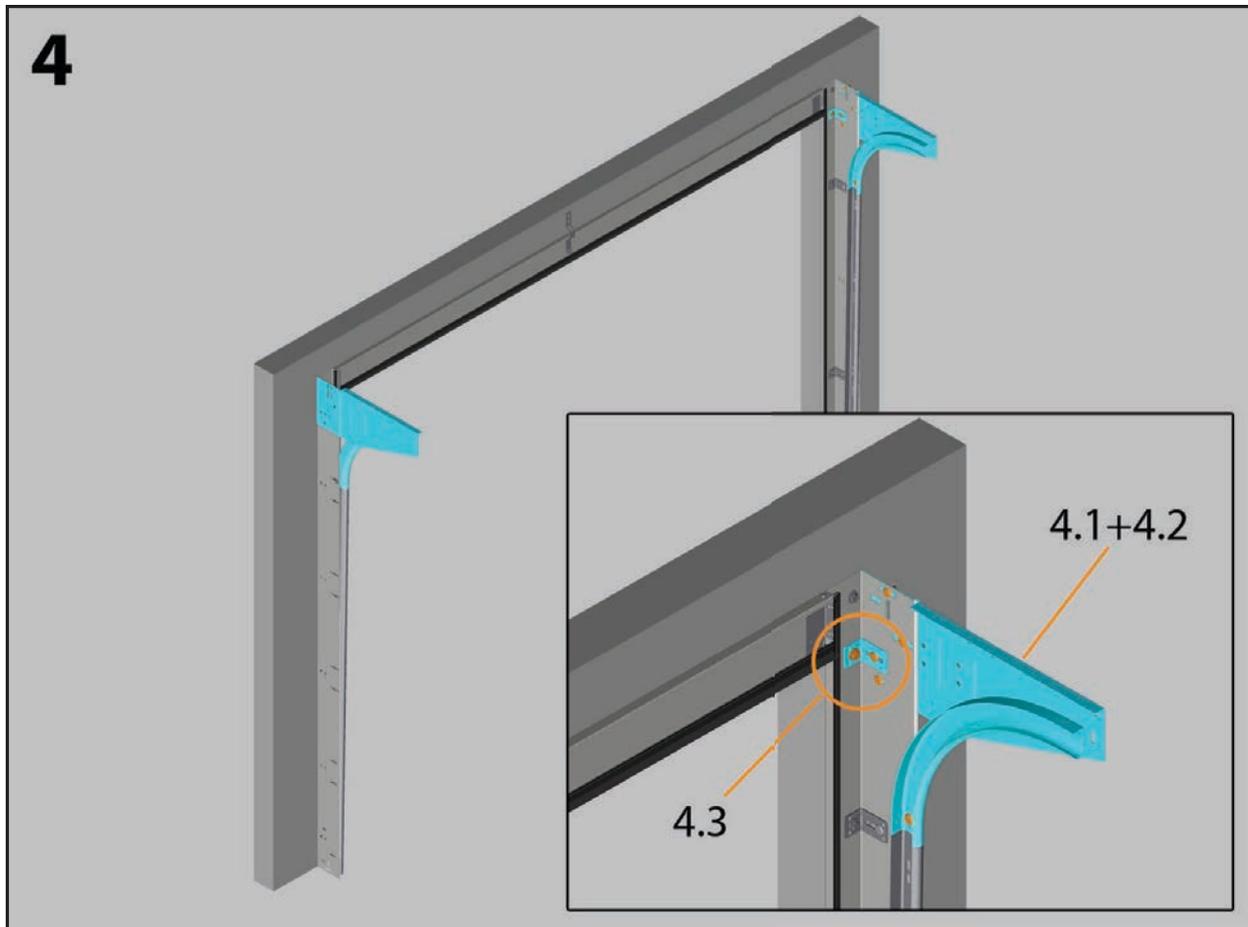
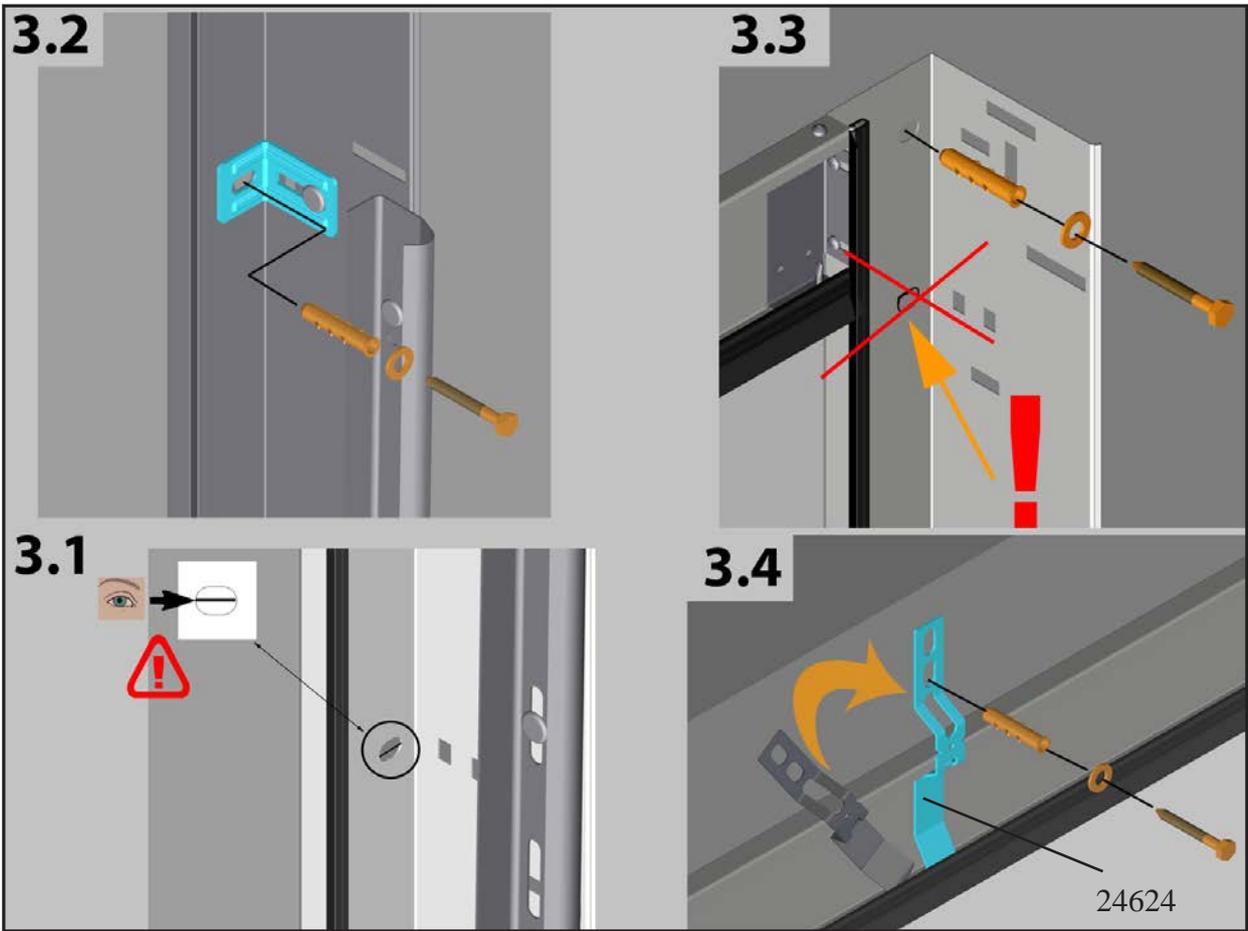
Day light height (H)	Vertical Kit REN70 (pair)		Horizontal Kit REN70 (pair)		Low head-room bracket
	Bolt version	Rivet version	Bolt version	Rivet version	Rivet version
	Article	Article	Article	Article	Article
2000	43000-2000	43010-2000	47001-2000	47011-2000	24715-L & 24715-R
2125	43000-2125	43010-2125	47001-2125	47011-2125	
2250	43000-2250	43010-2250	47001-2250	47011-2250	
2375	43000-2375	43010-2375	47001-2375	47011-2375	
2500	43000-2500	43010-2500	47001-2500	47011-2500	
2750	43000-2750	43010-2750	47001-2750	47011-2750	
3000	43000-3000	43010-3000	47001-3000	47011-3000	

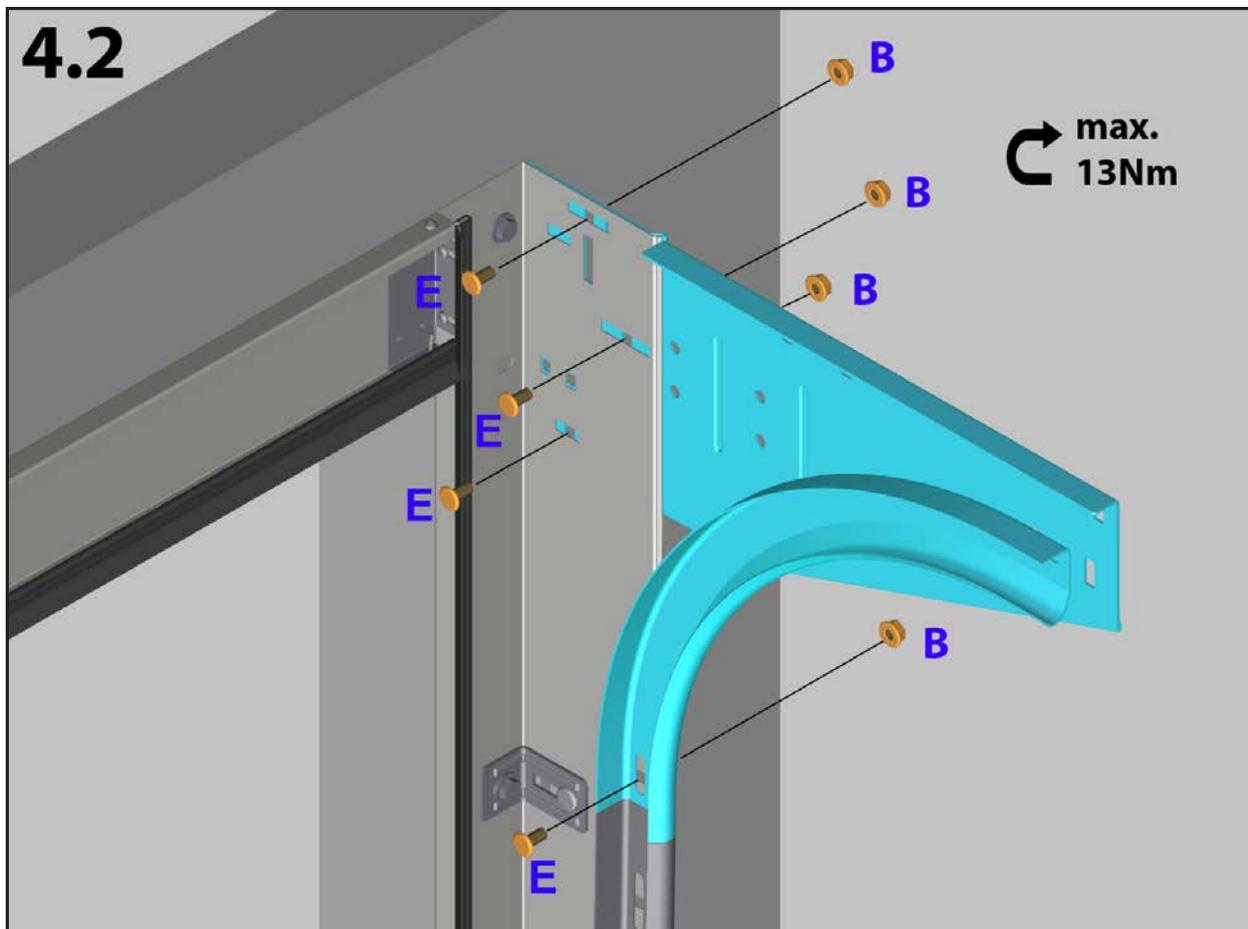
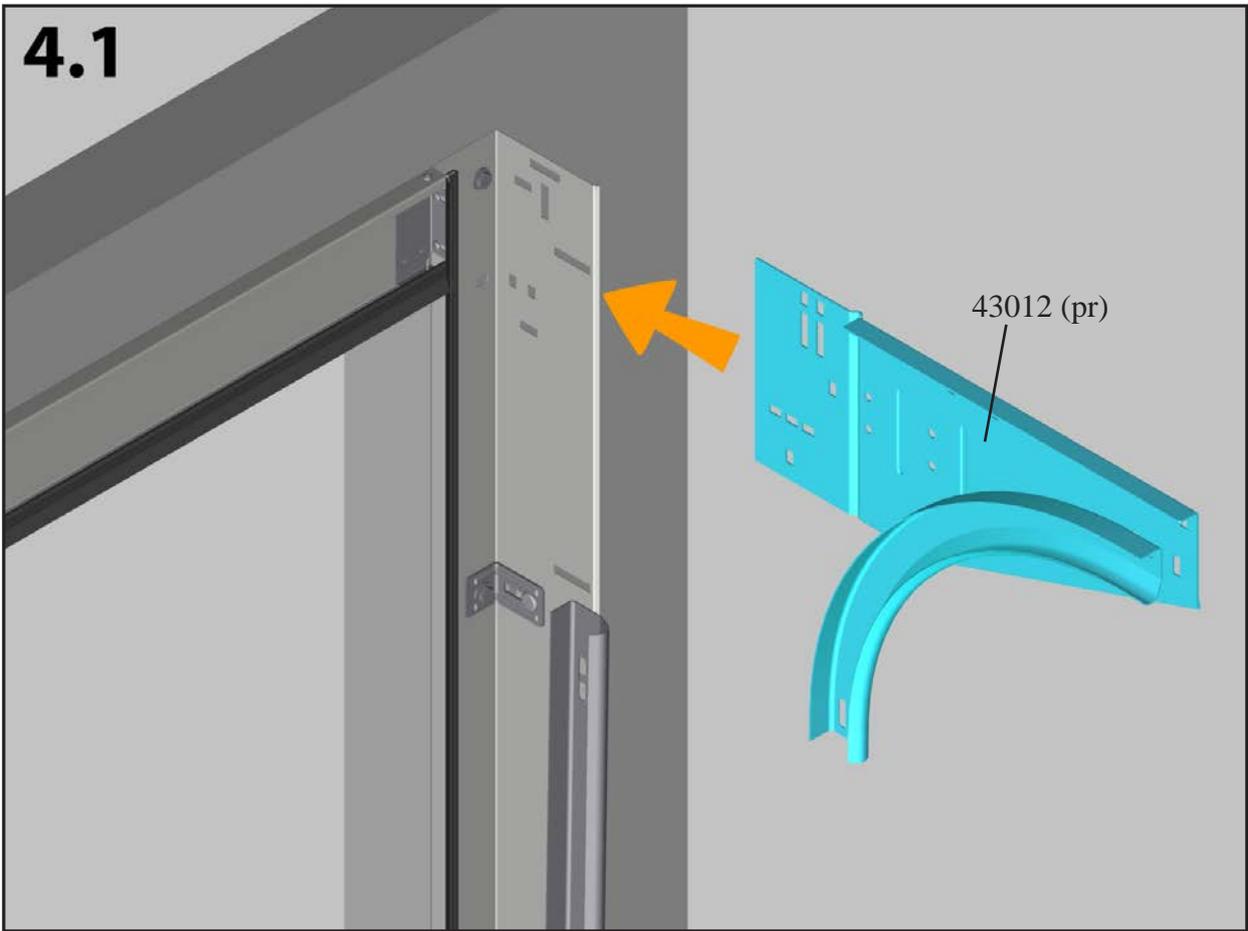


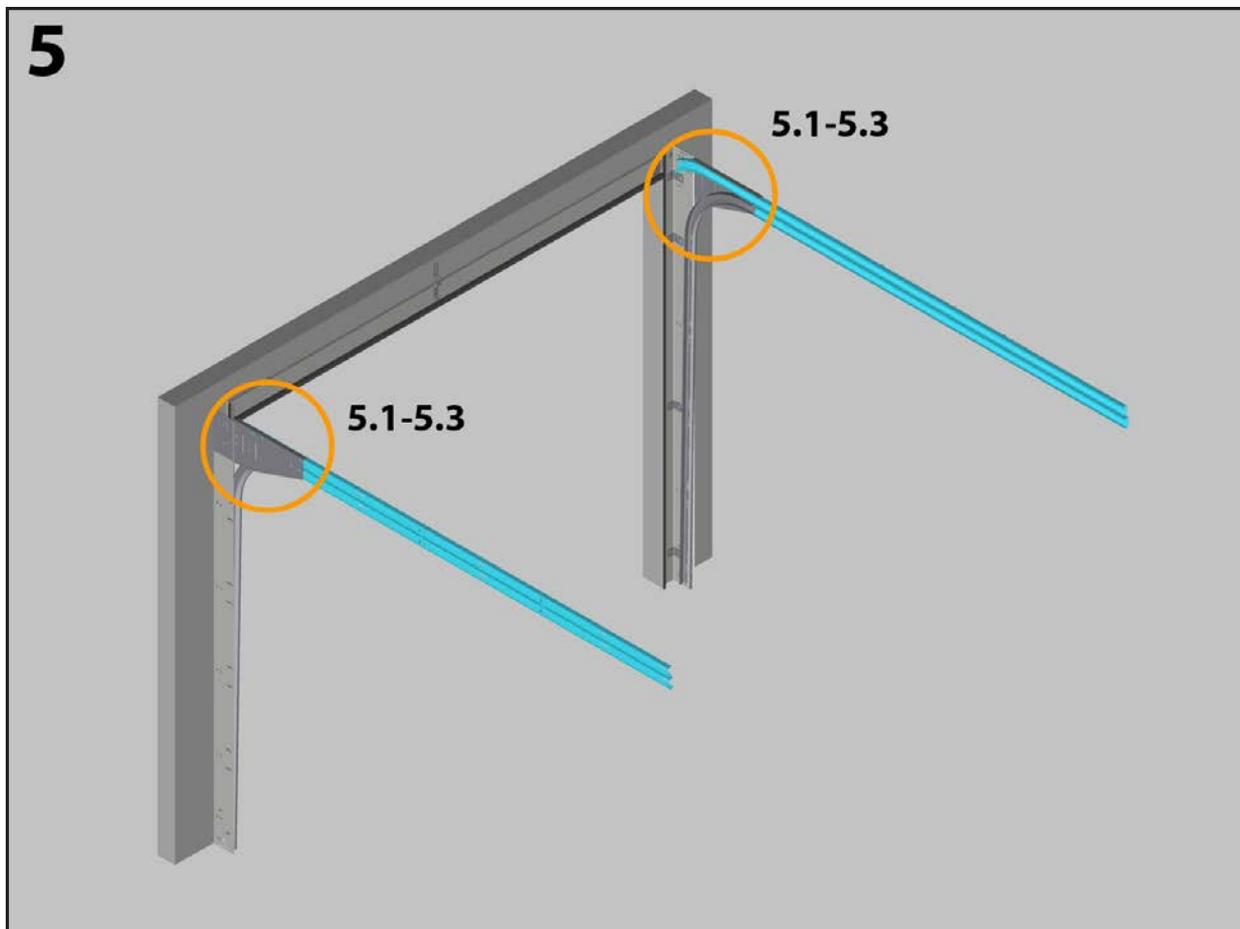
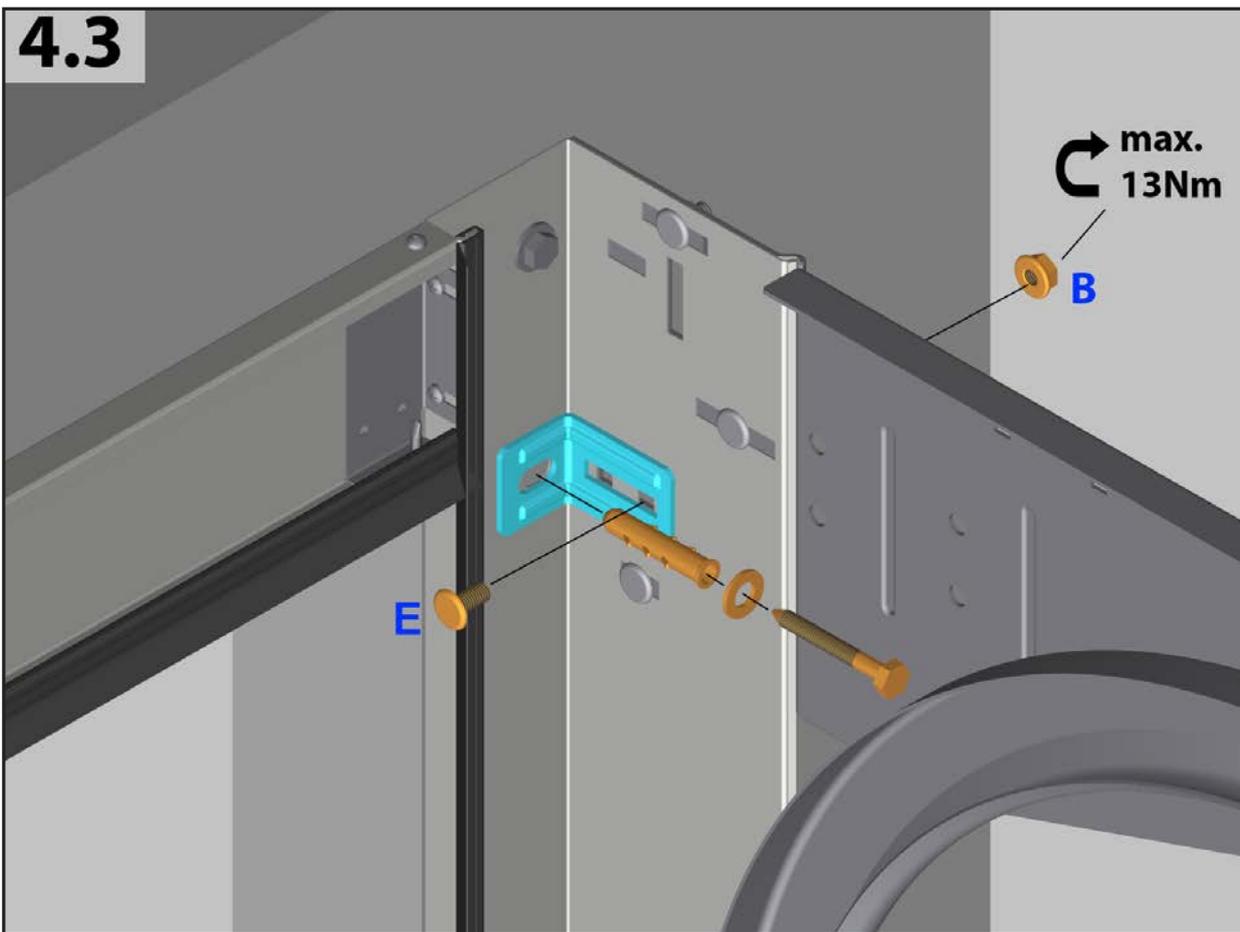


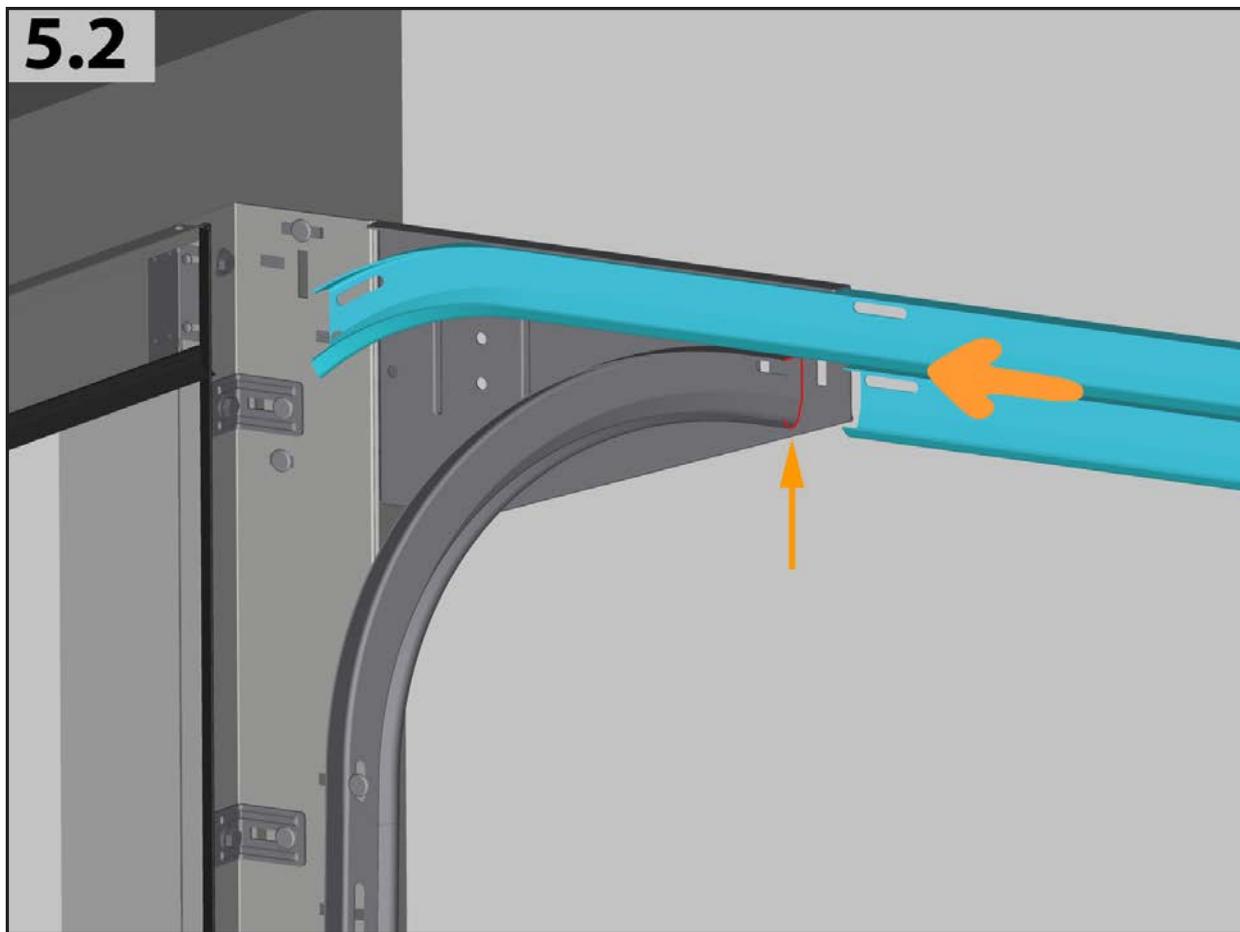
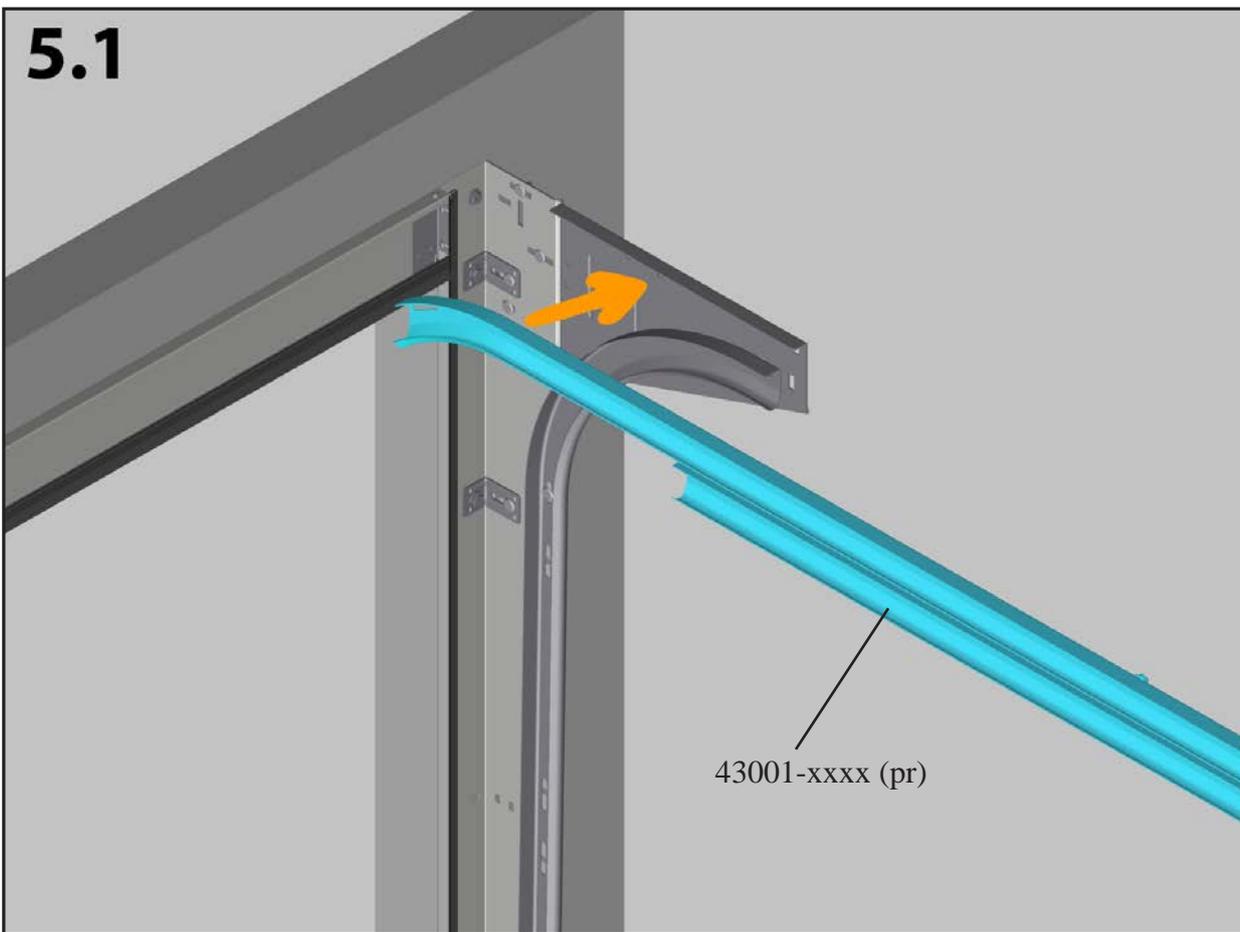


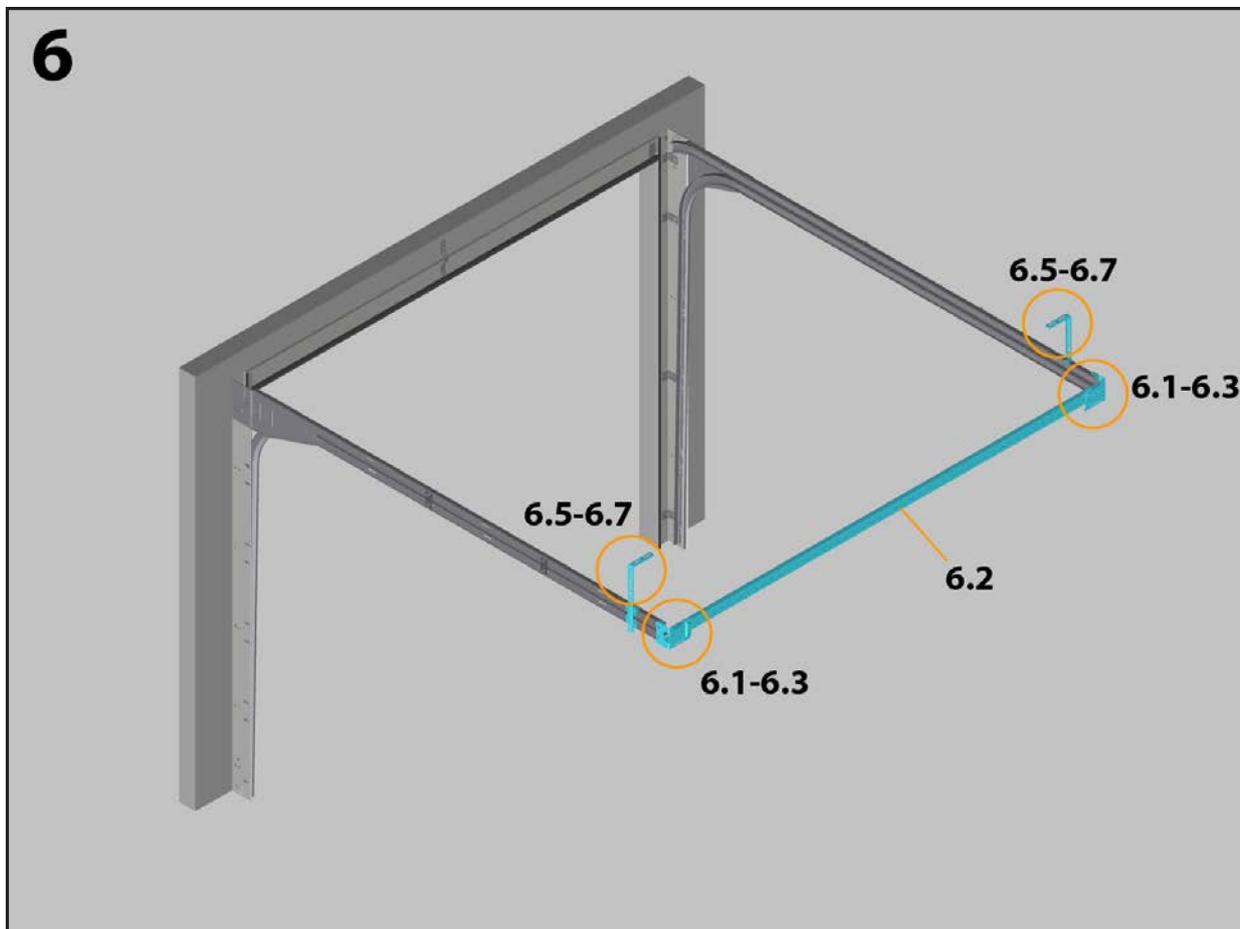
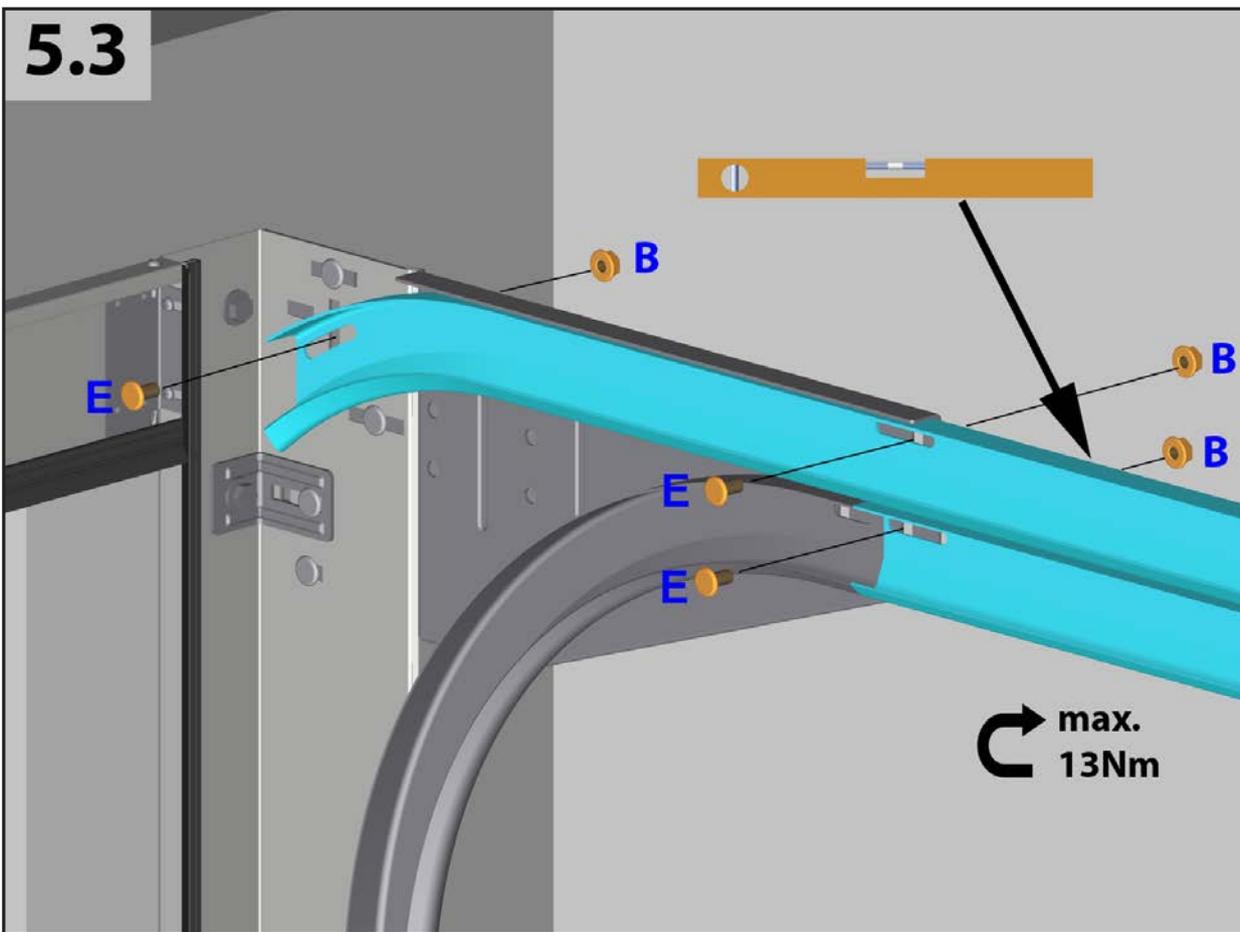


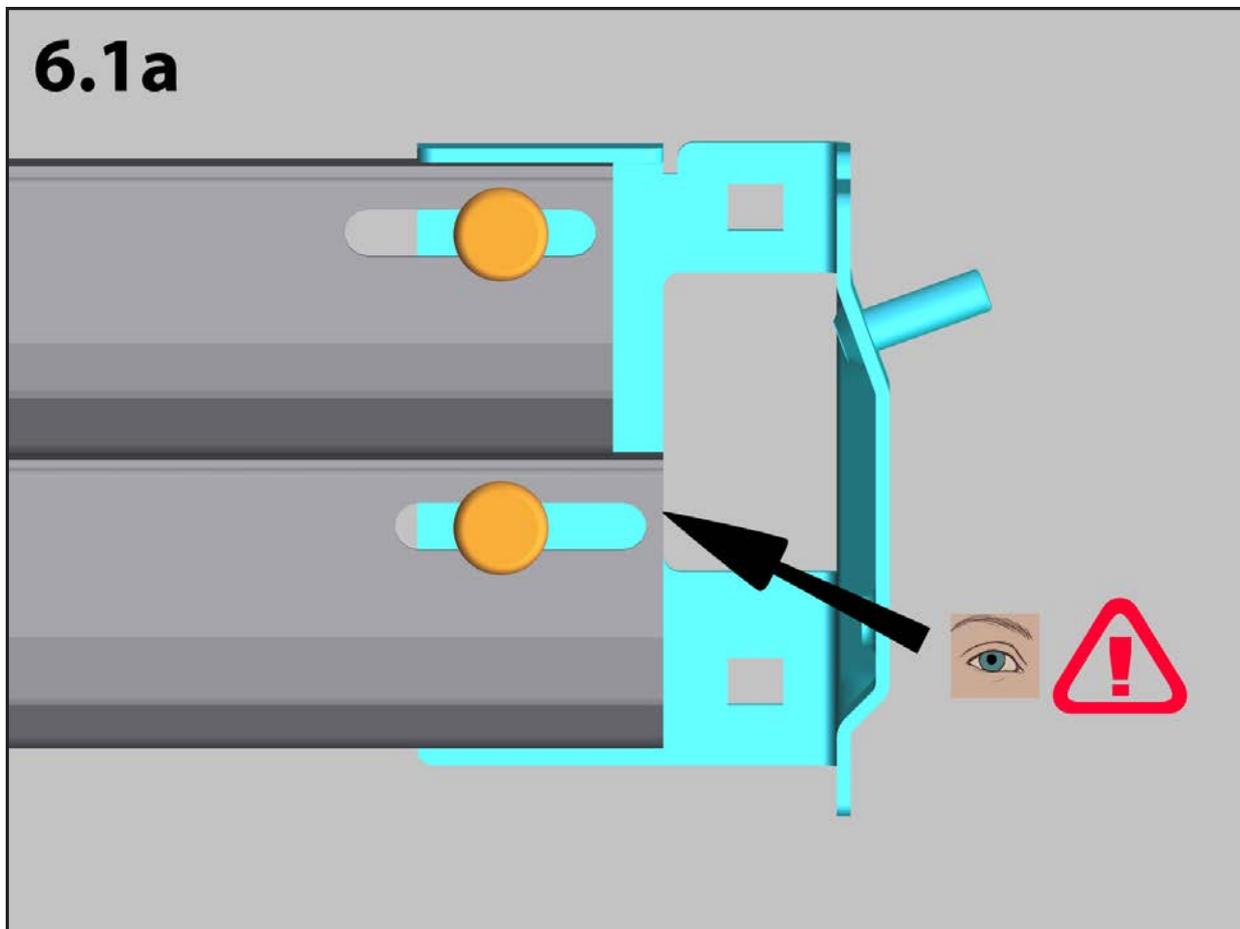
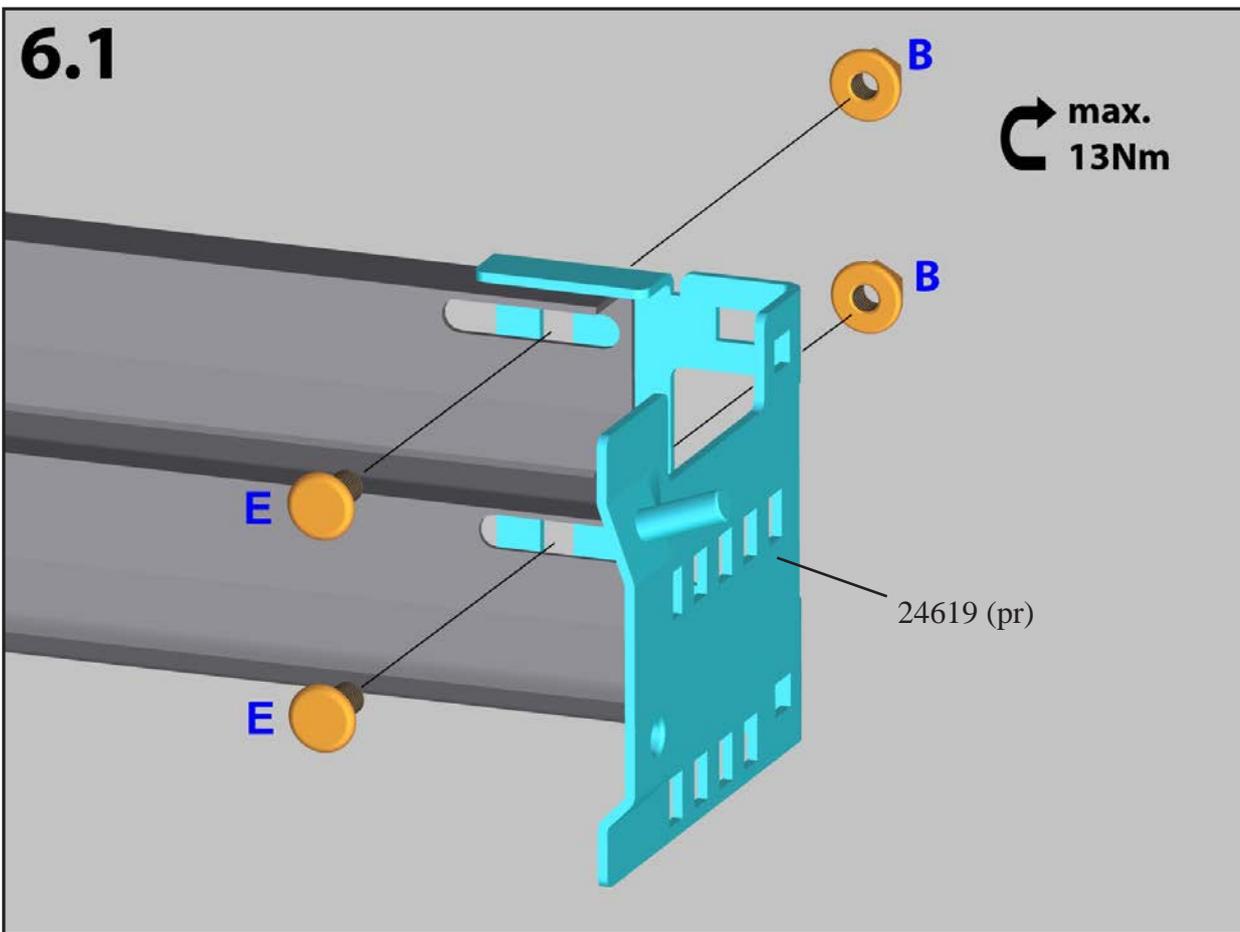




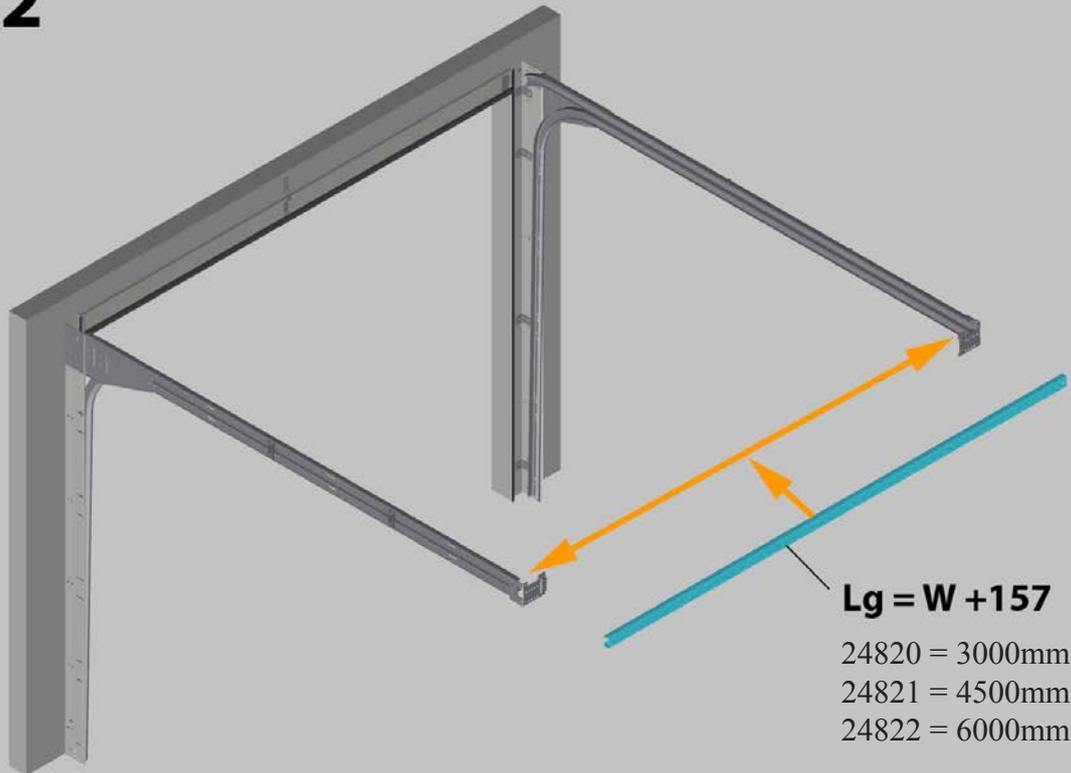




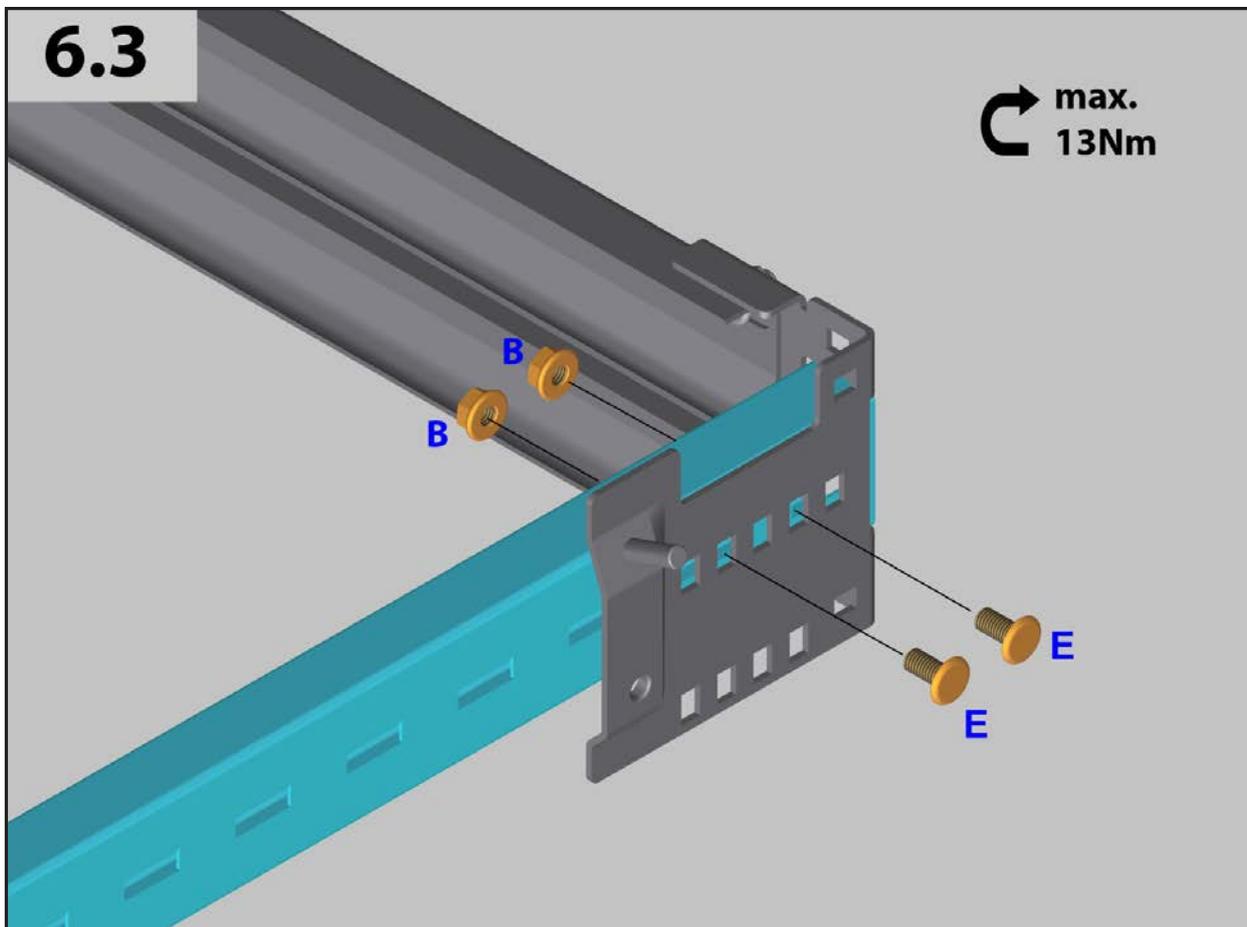


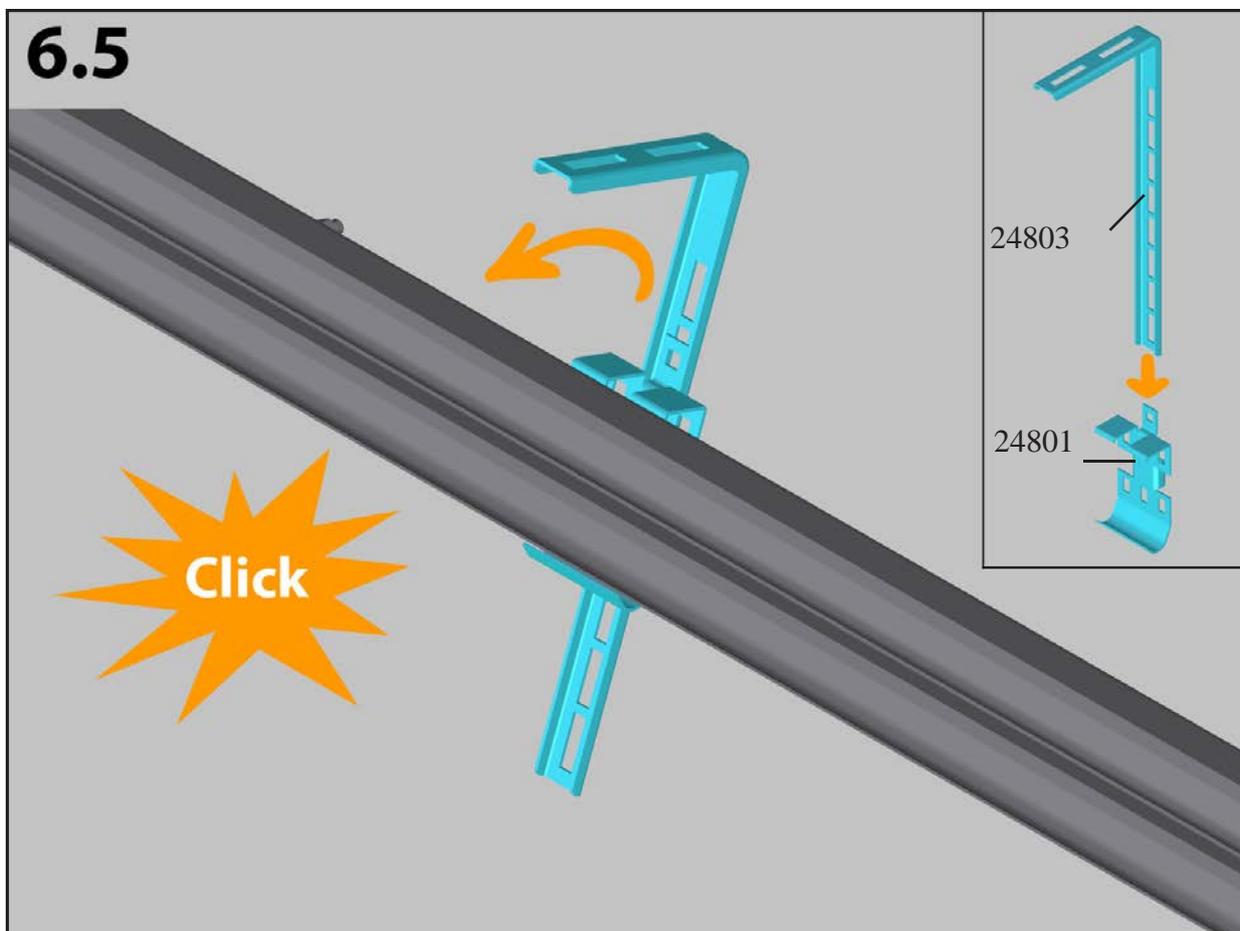
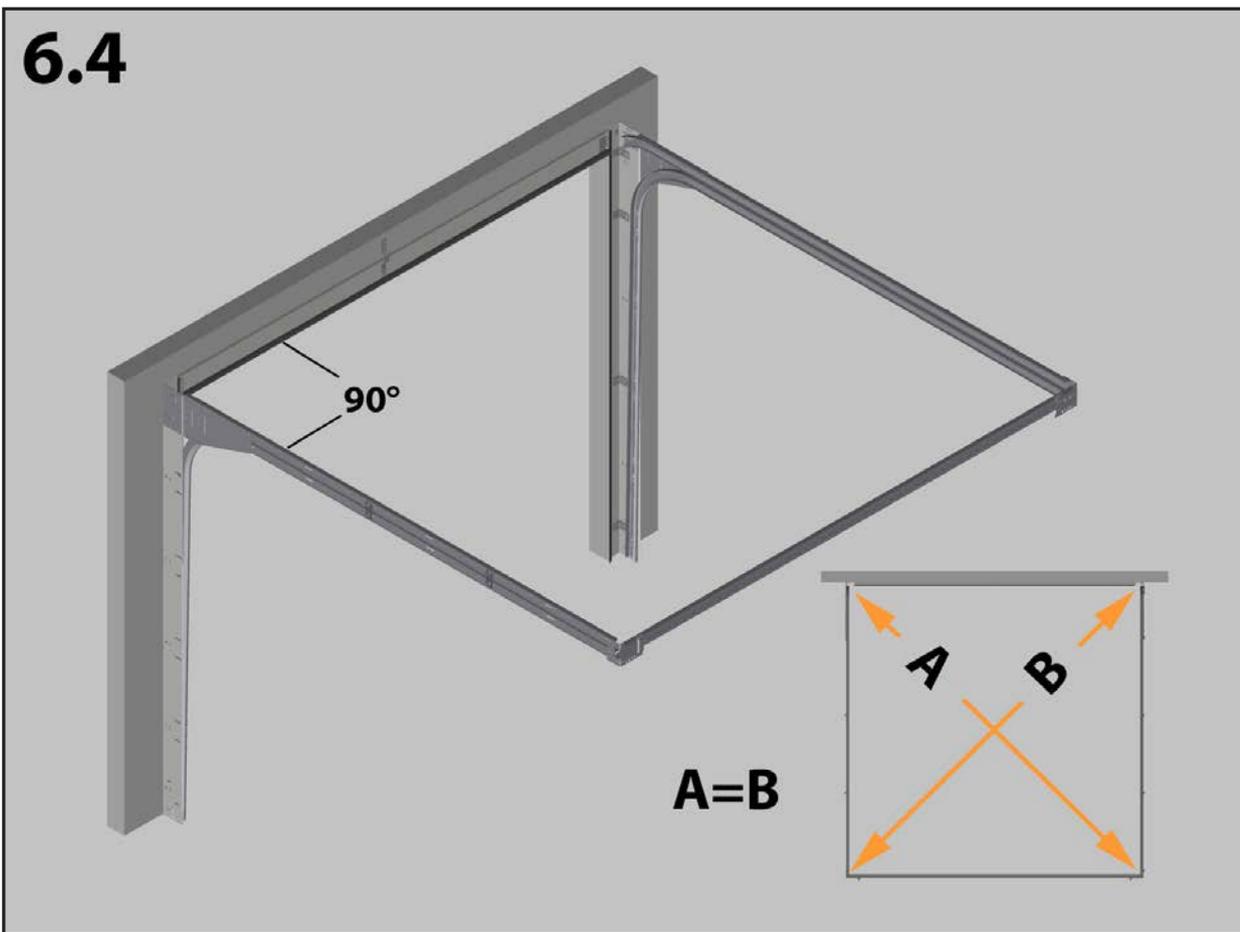


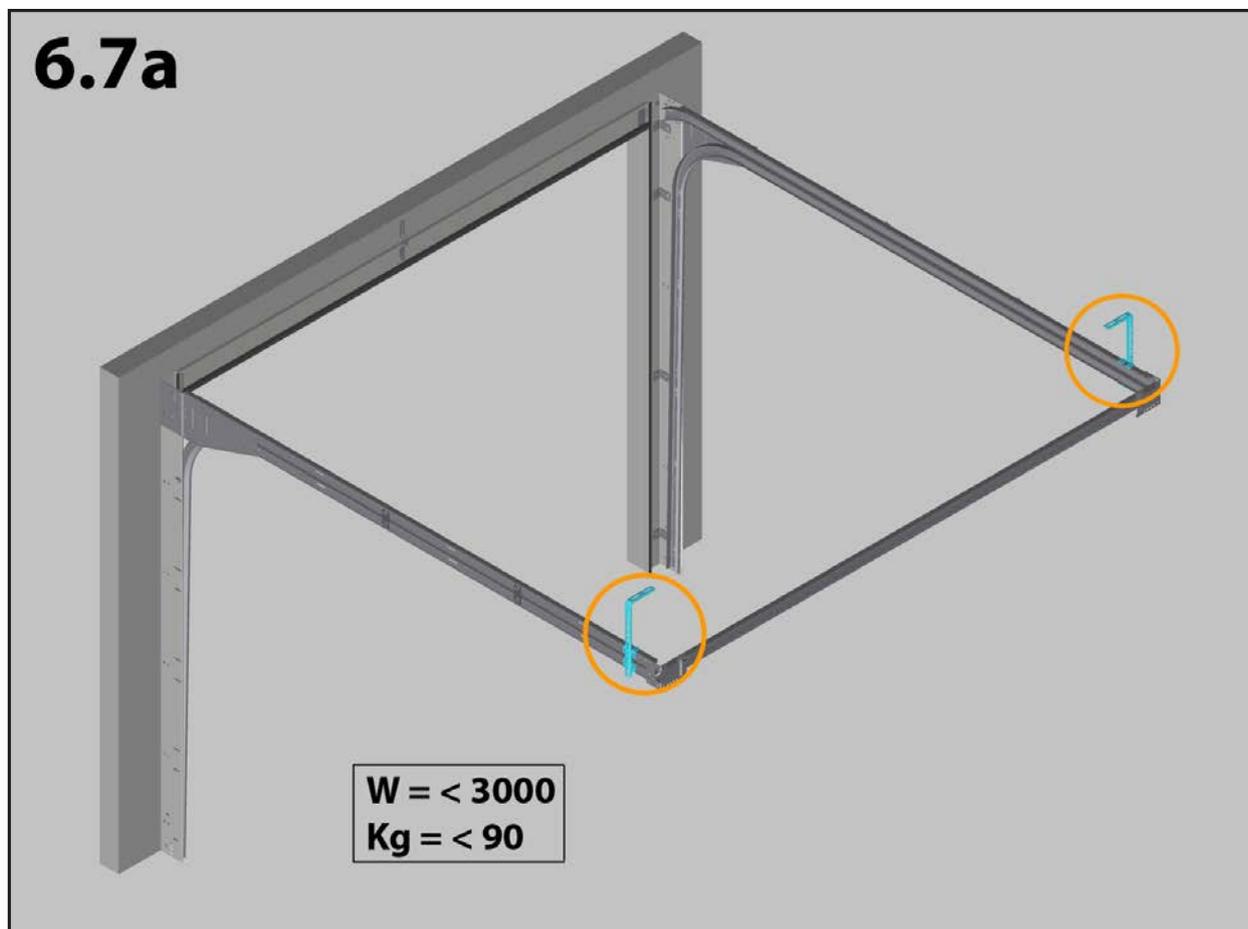
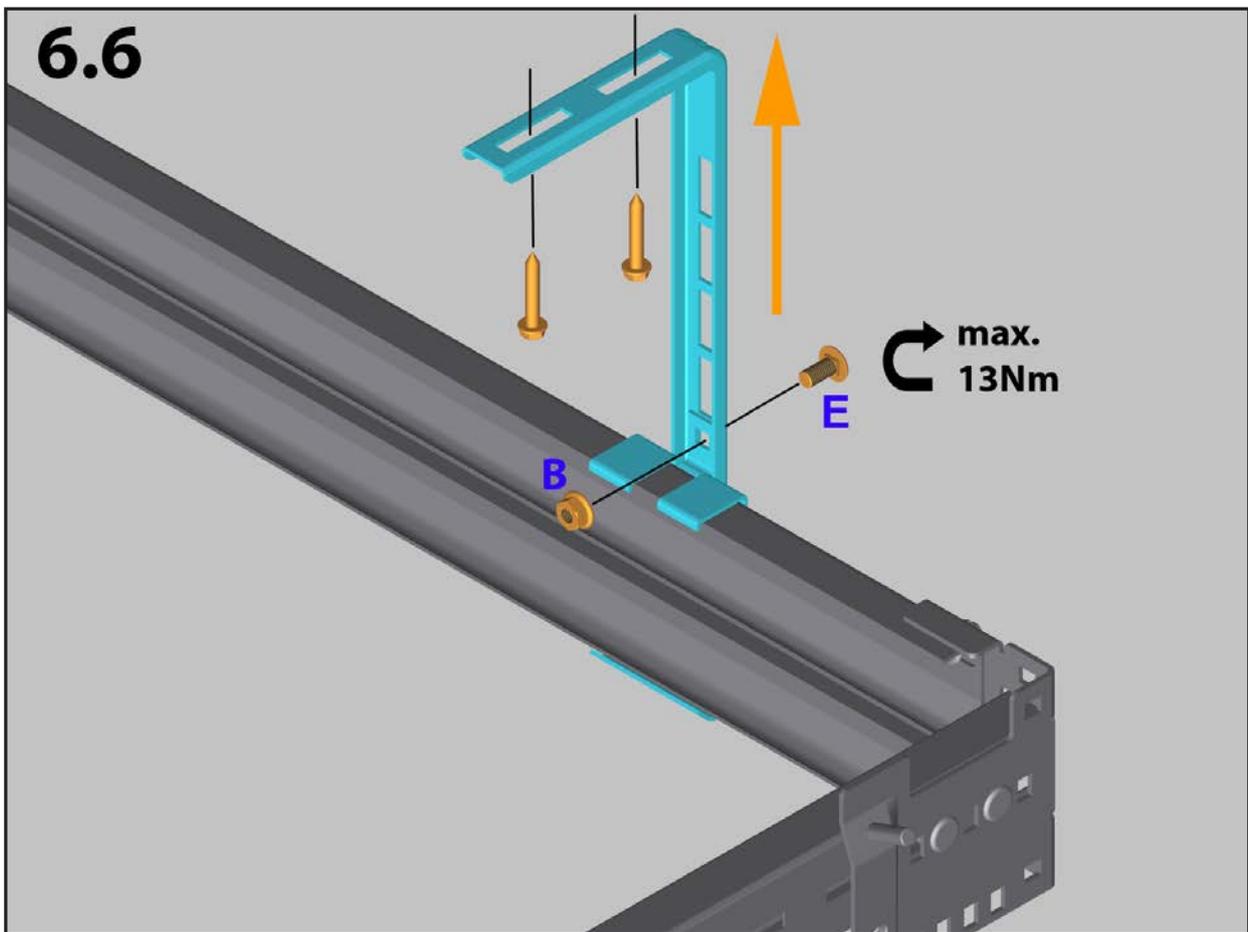
6.2

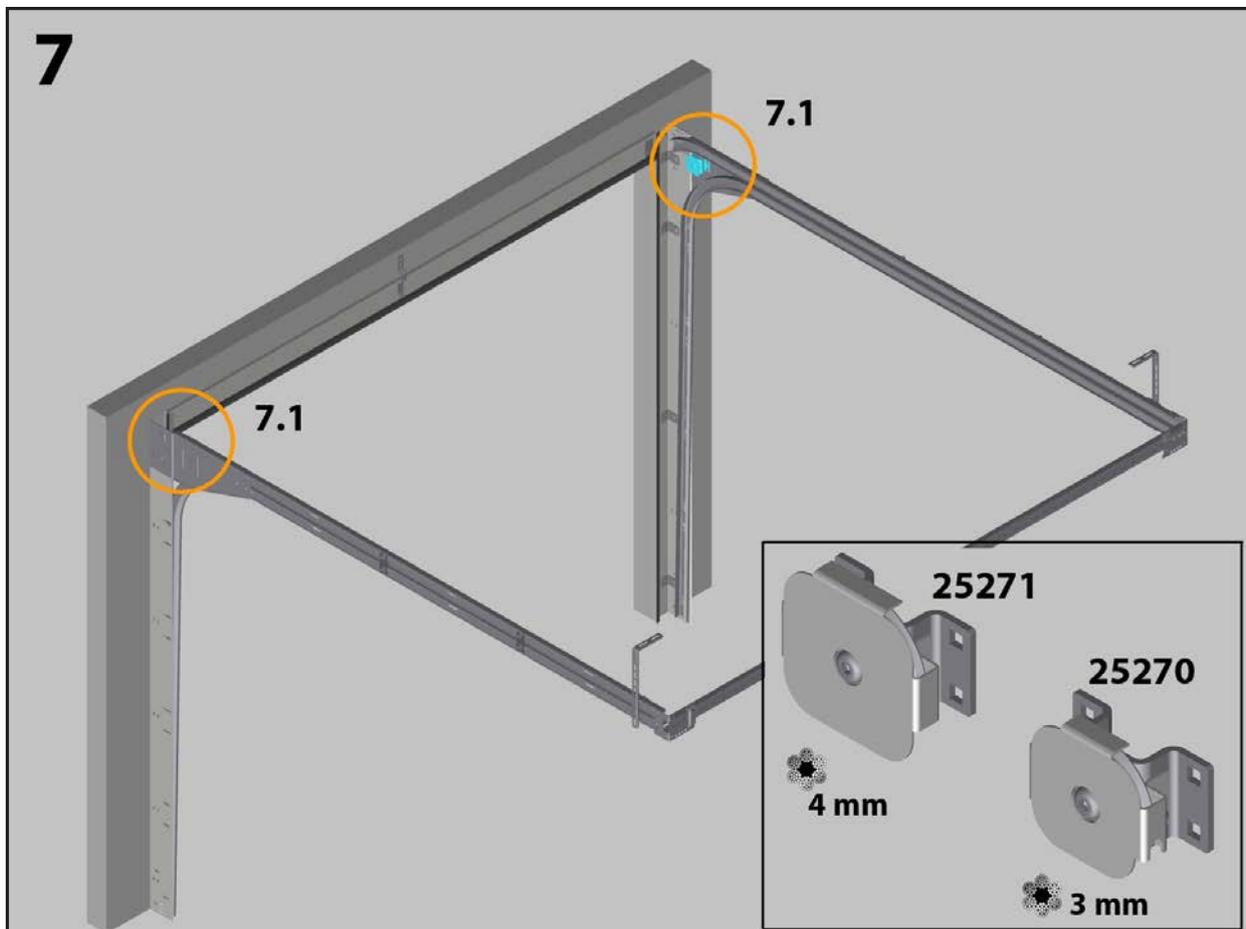
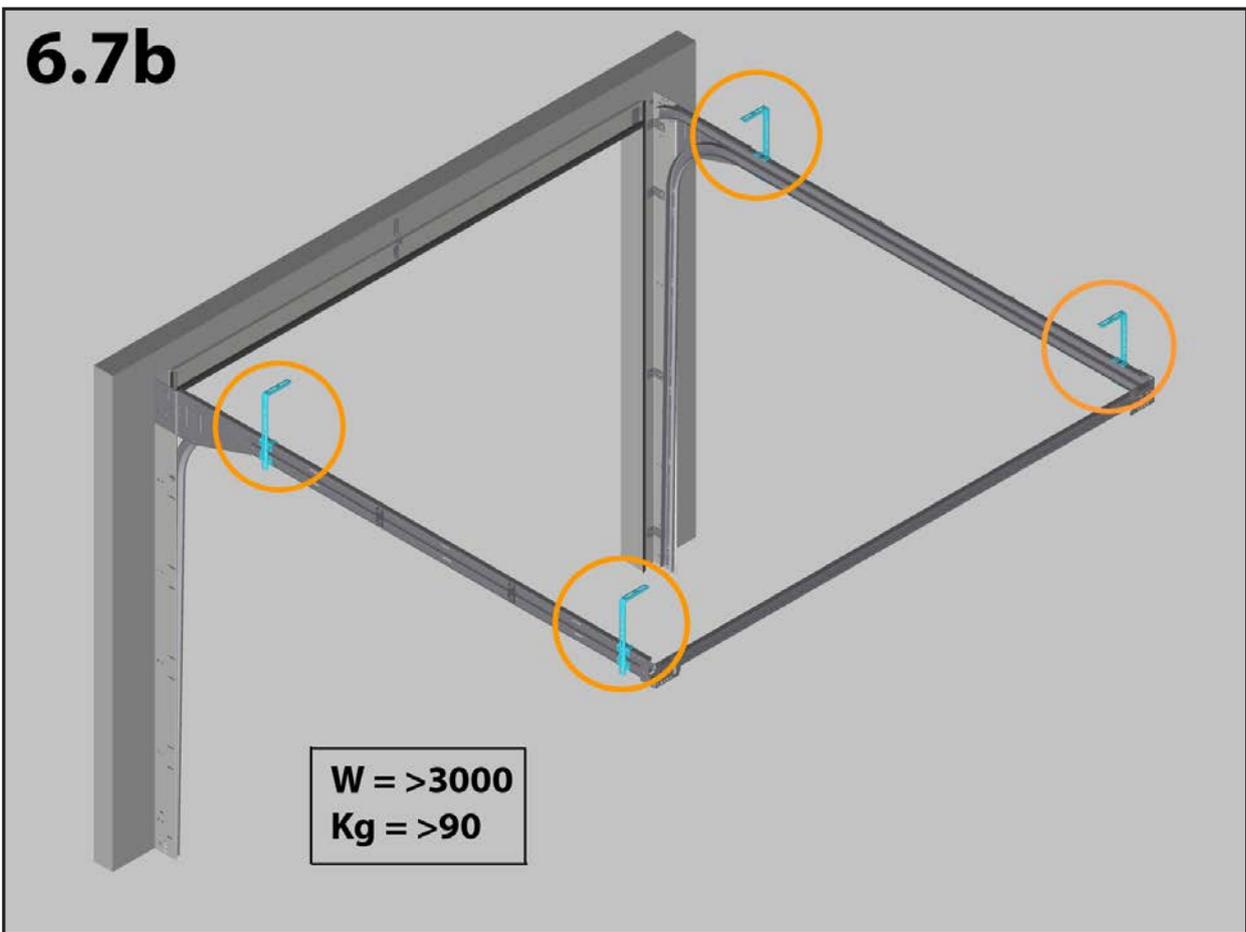


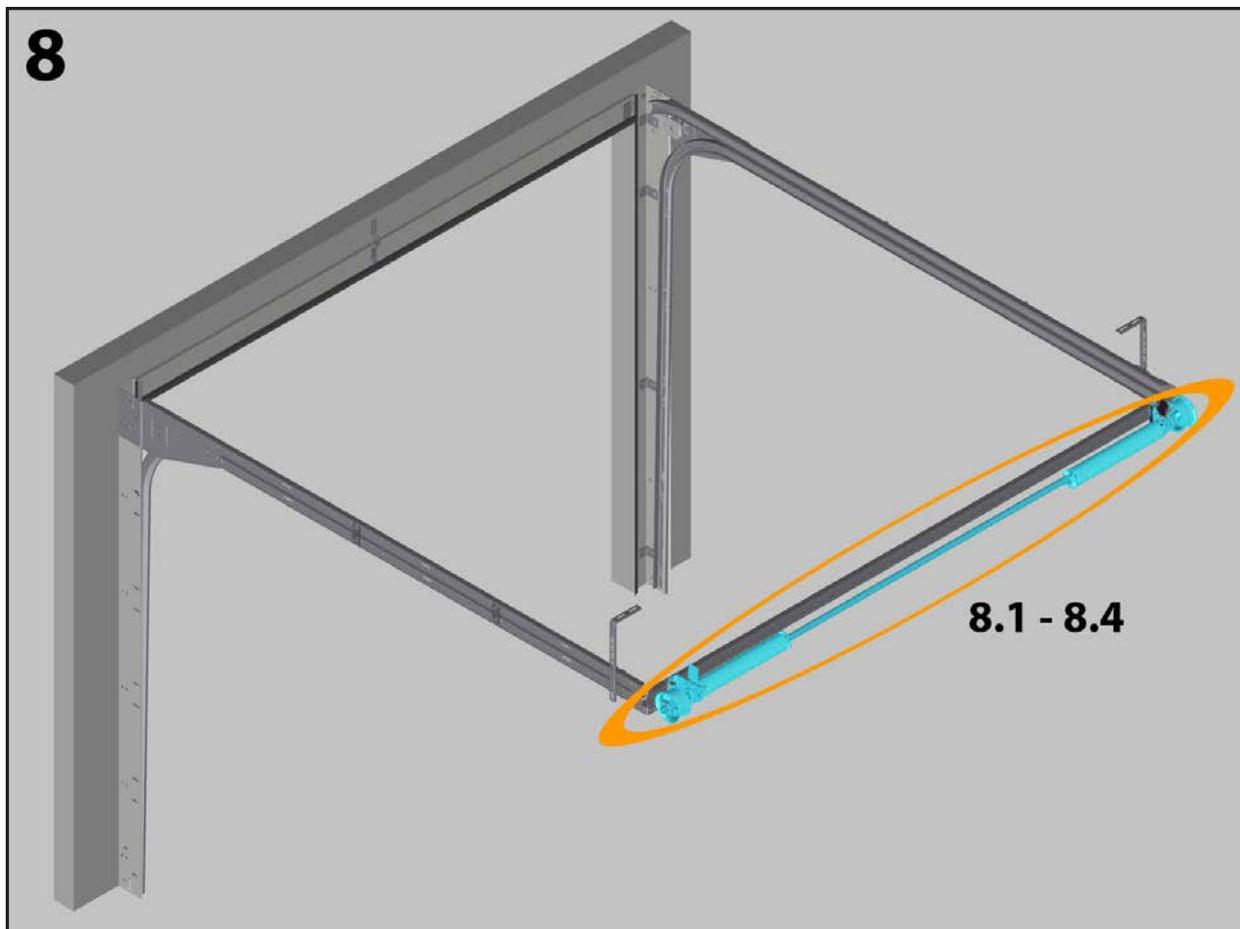
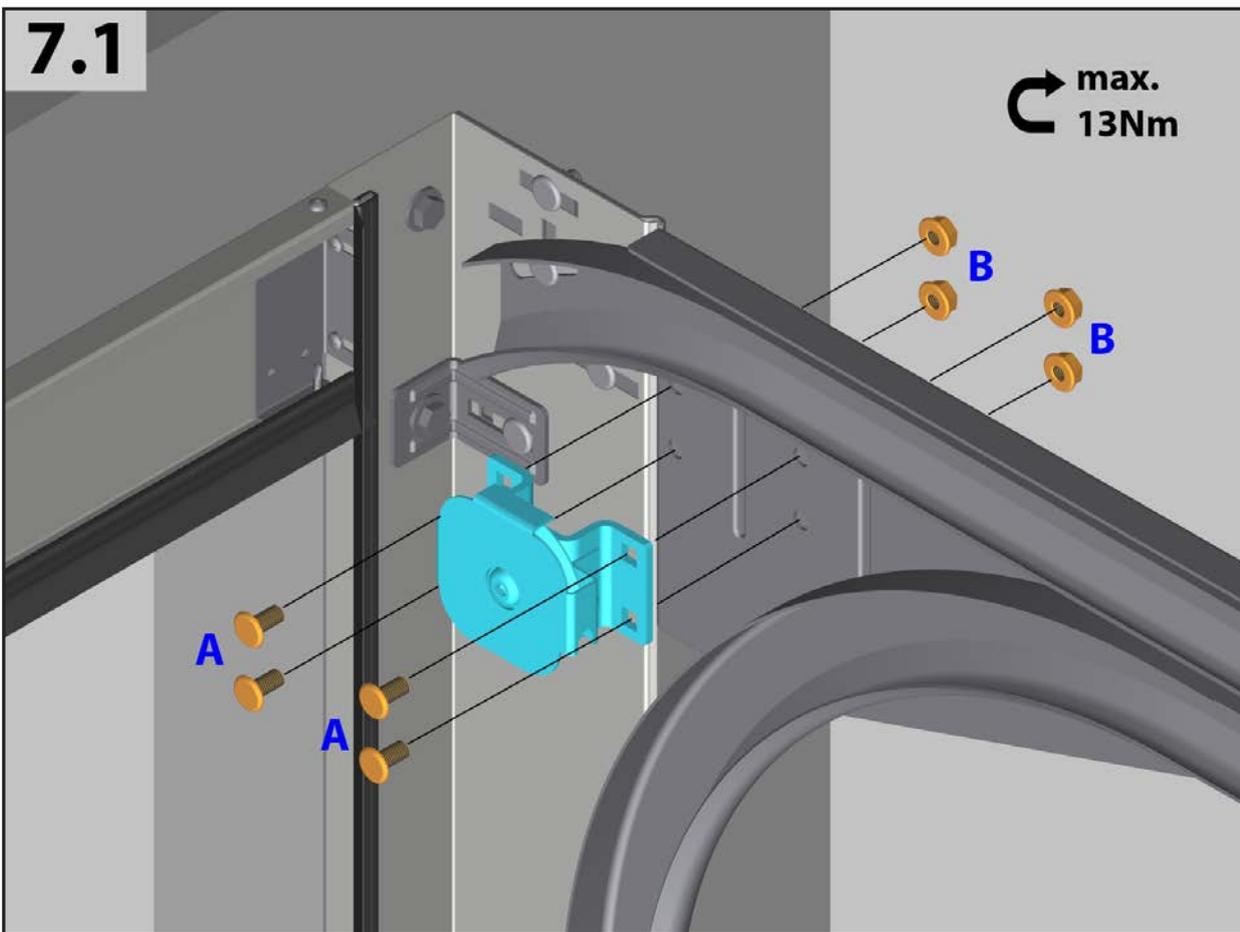
6.3

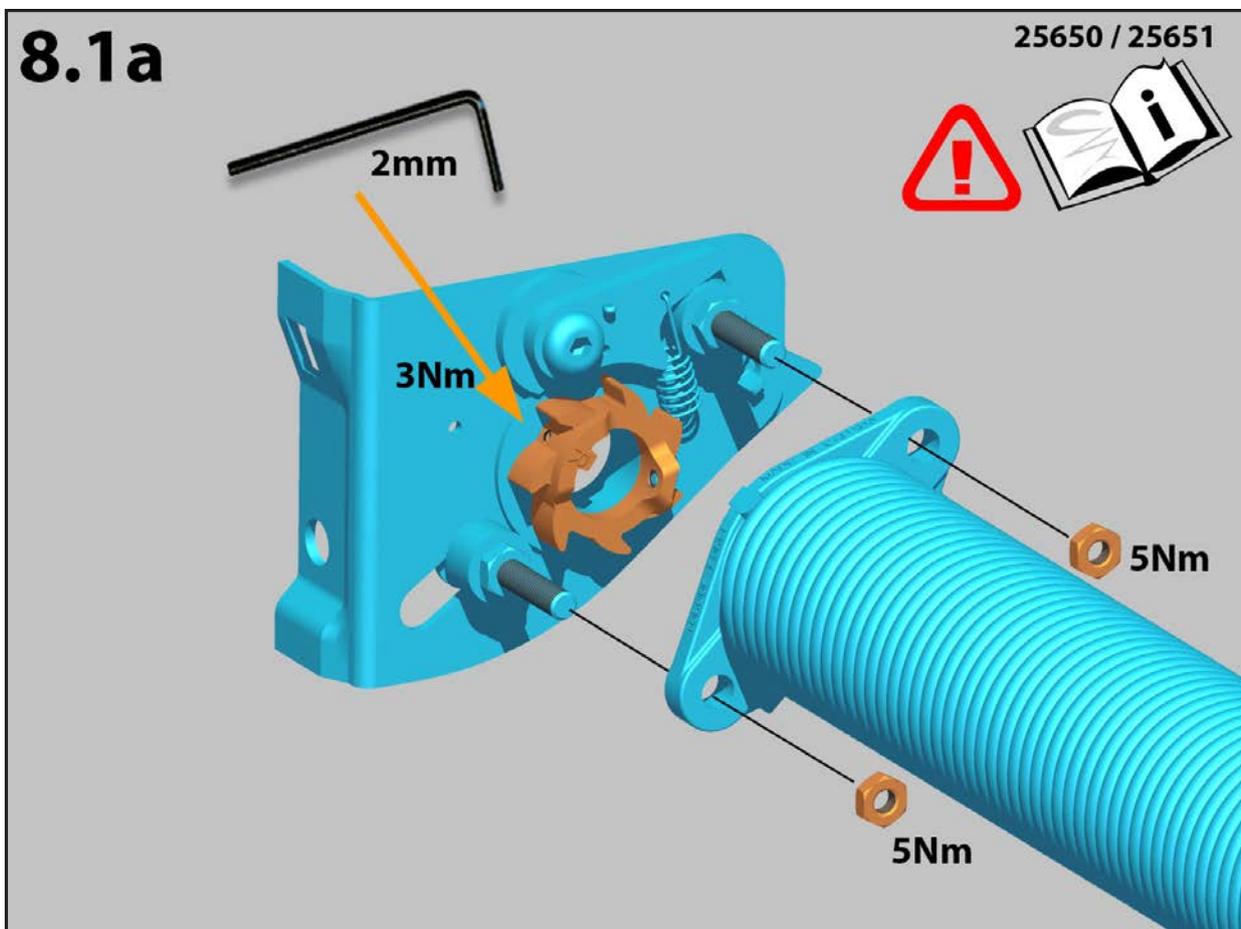
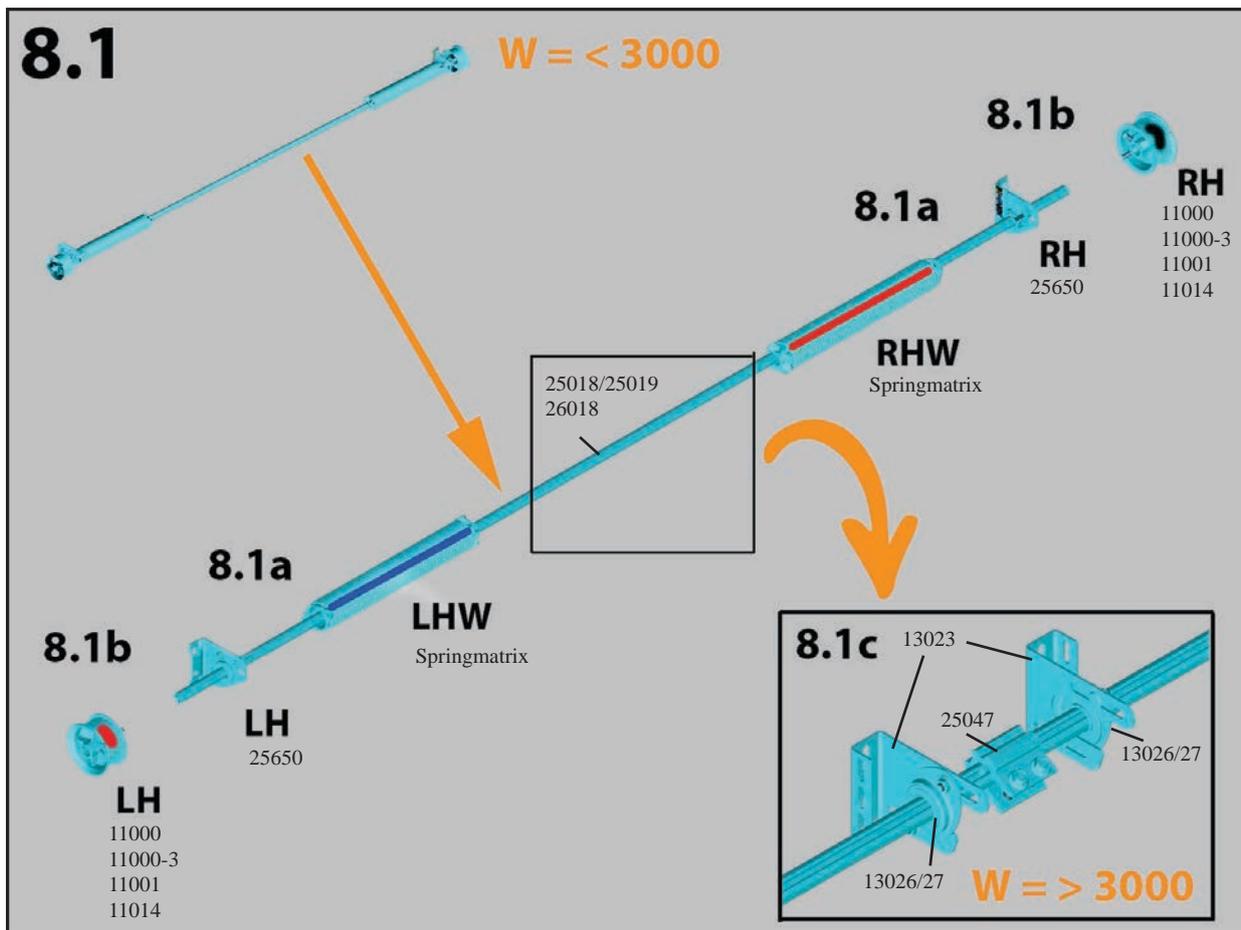


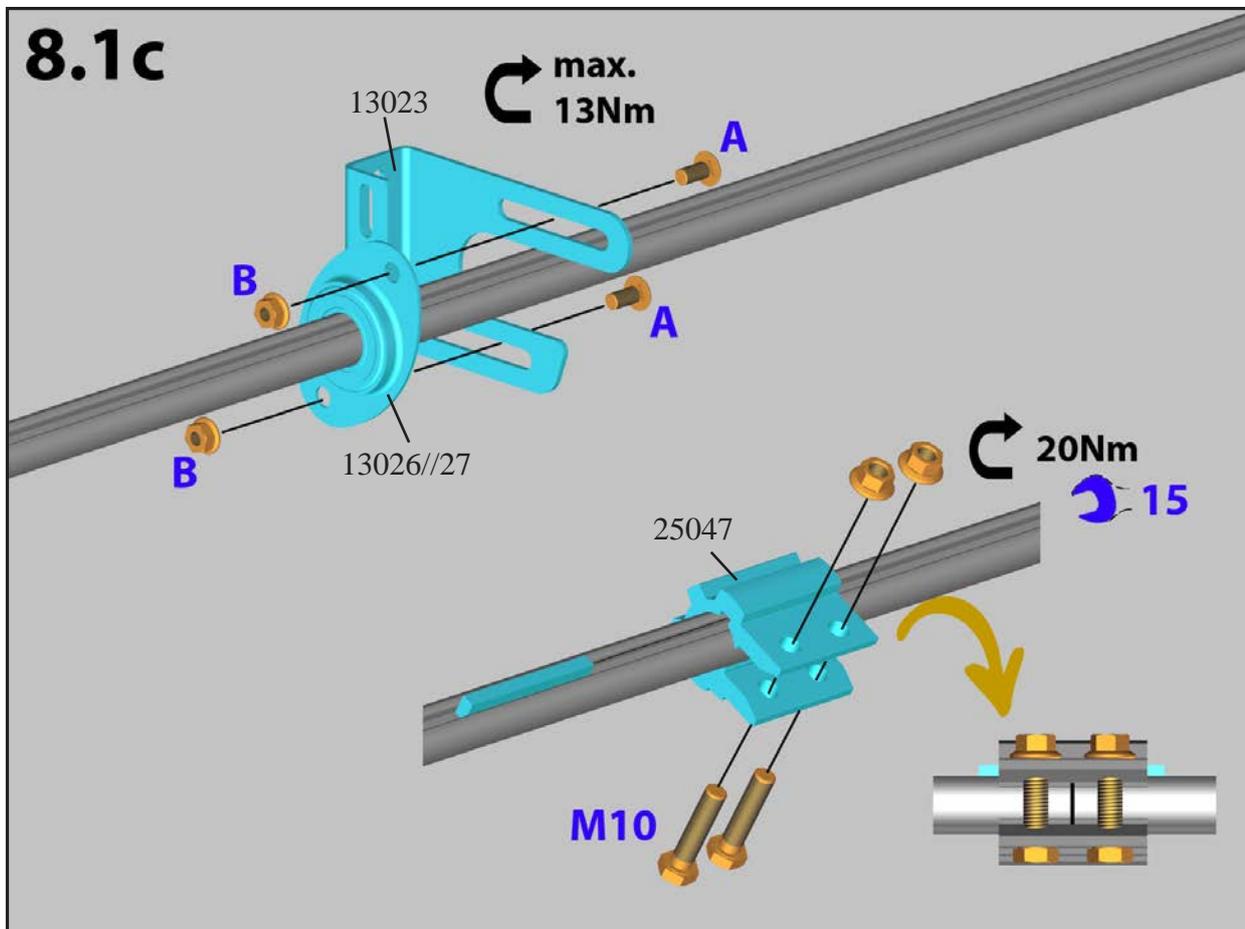
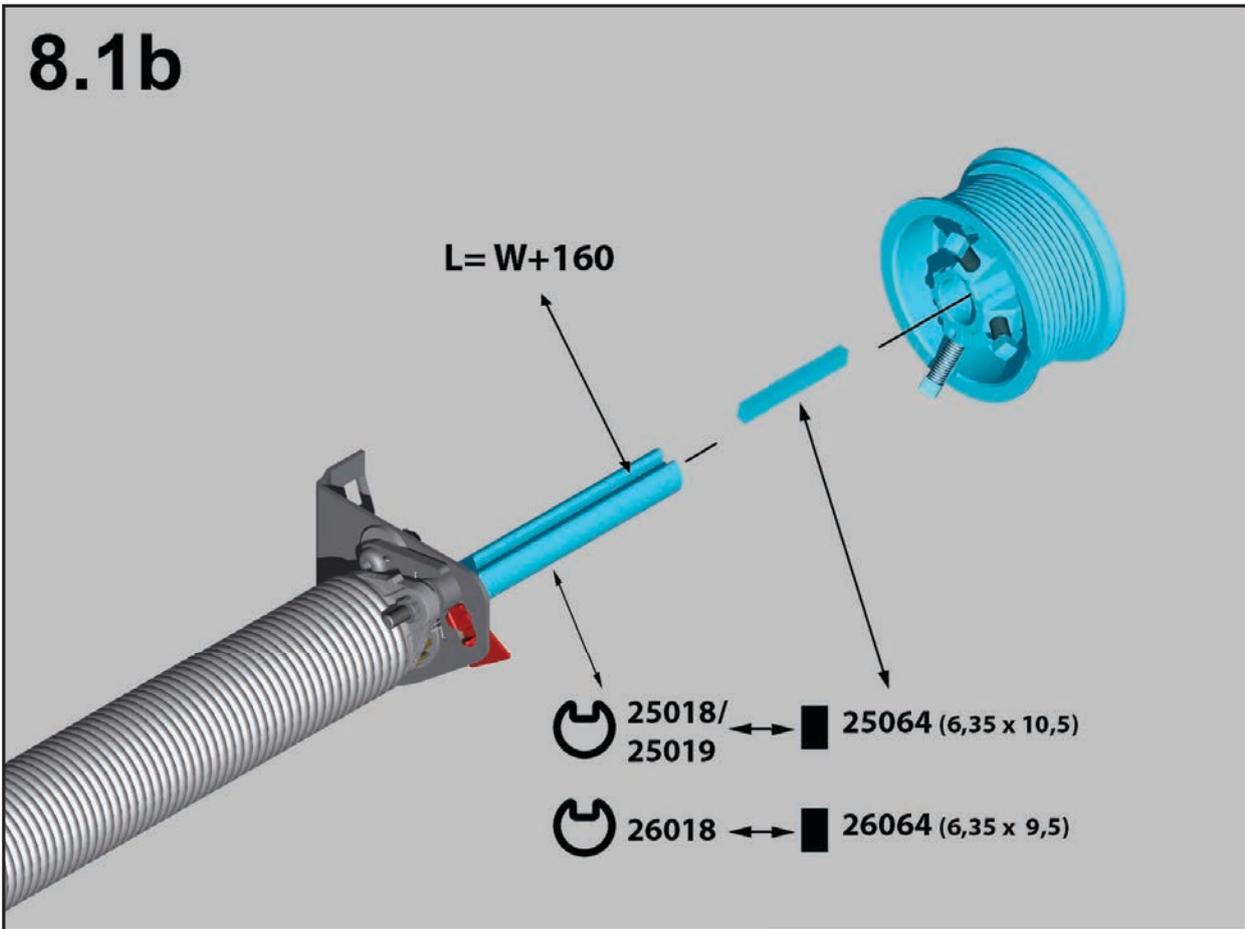


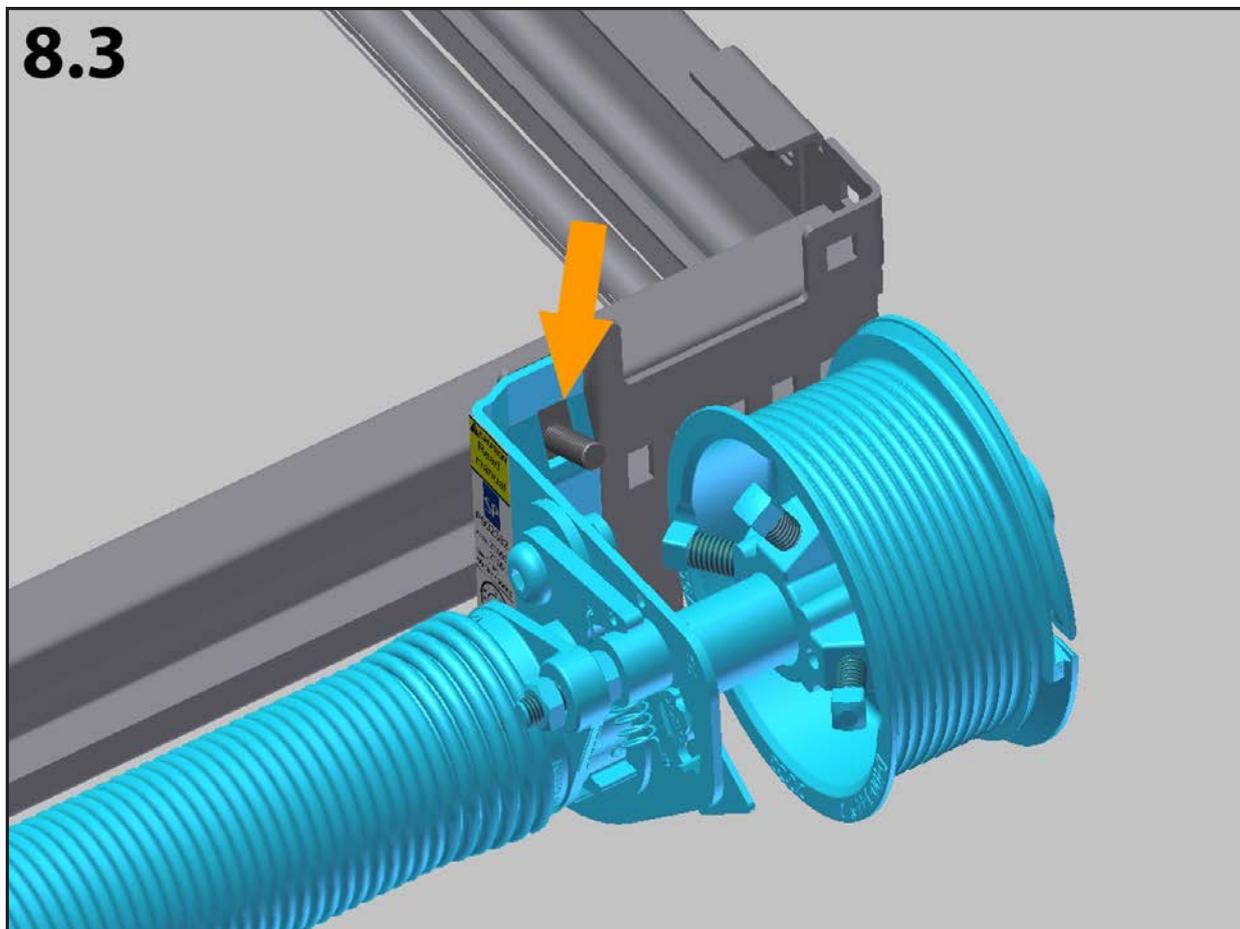
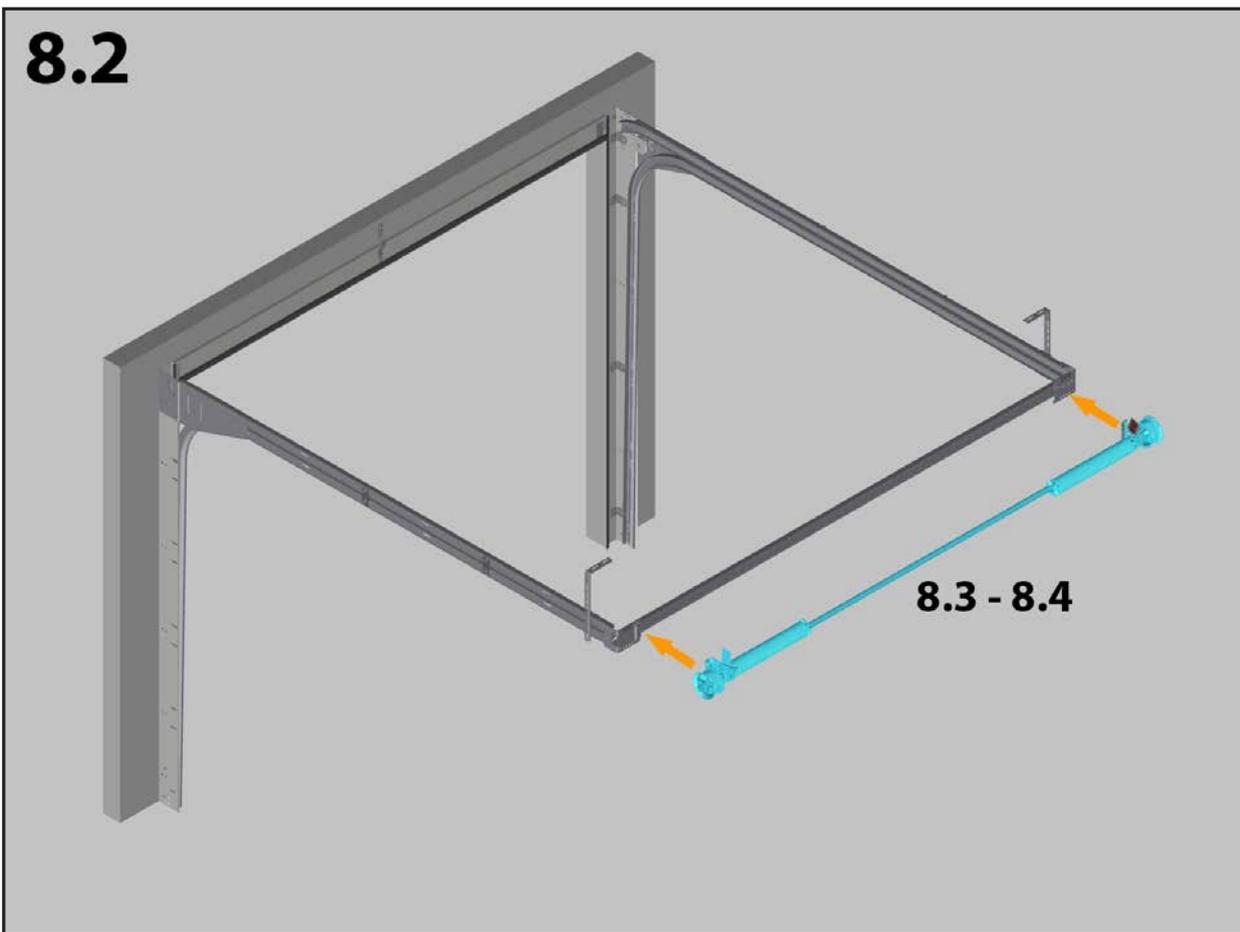


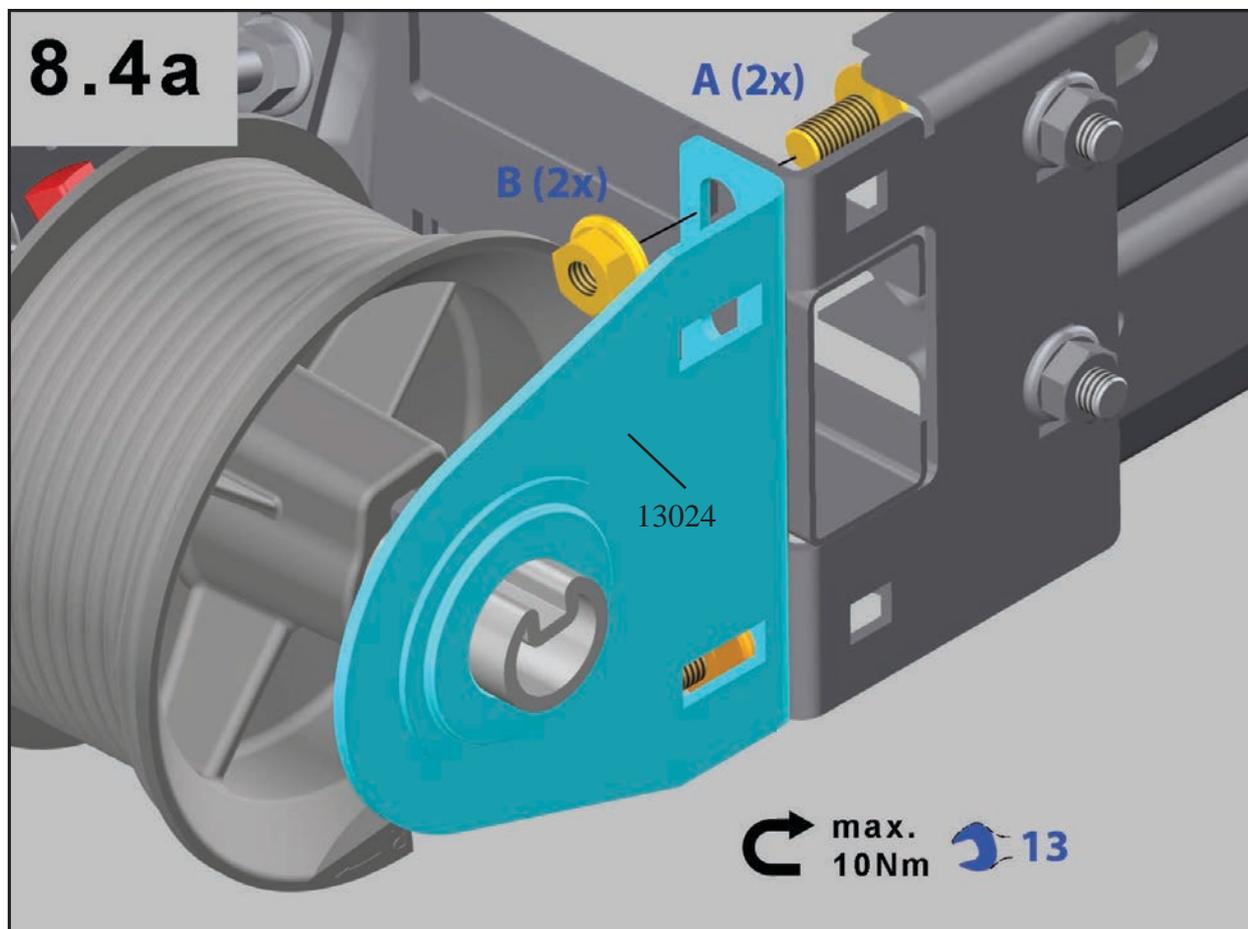
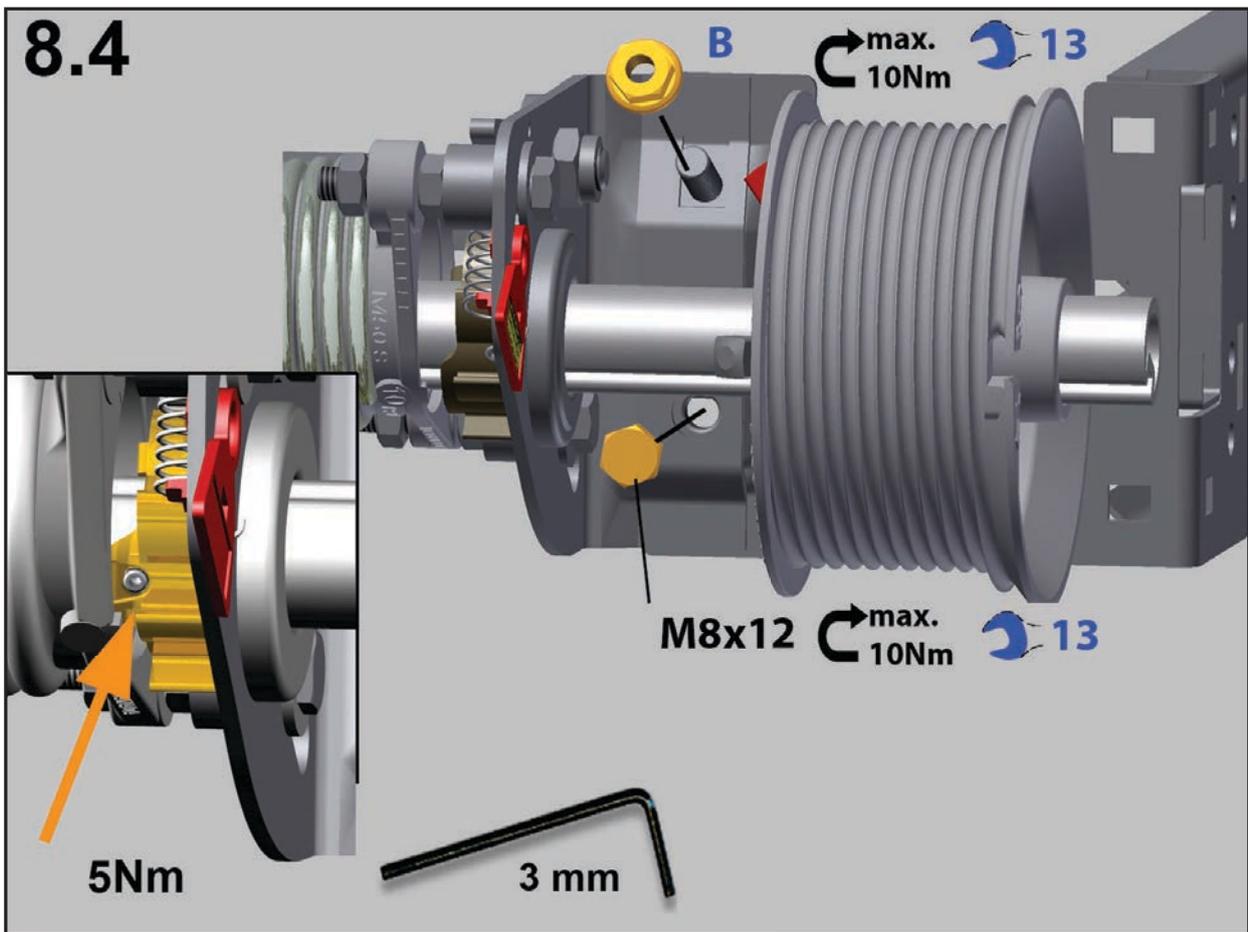


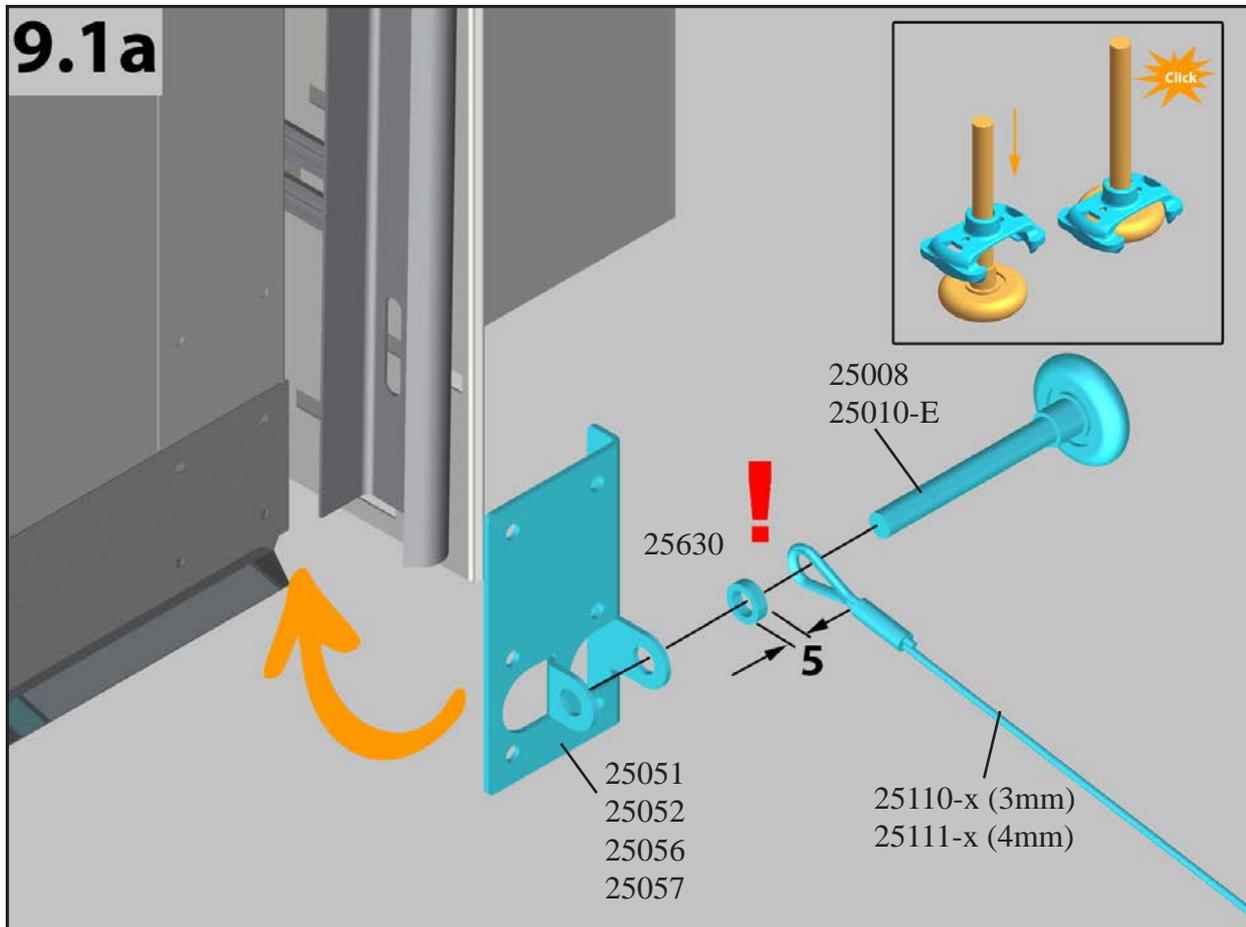
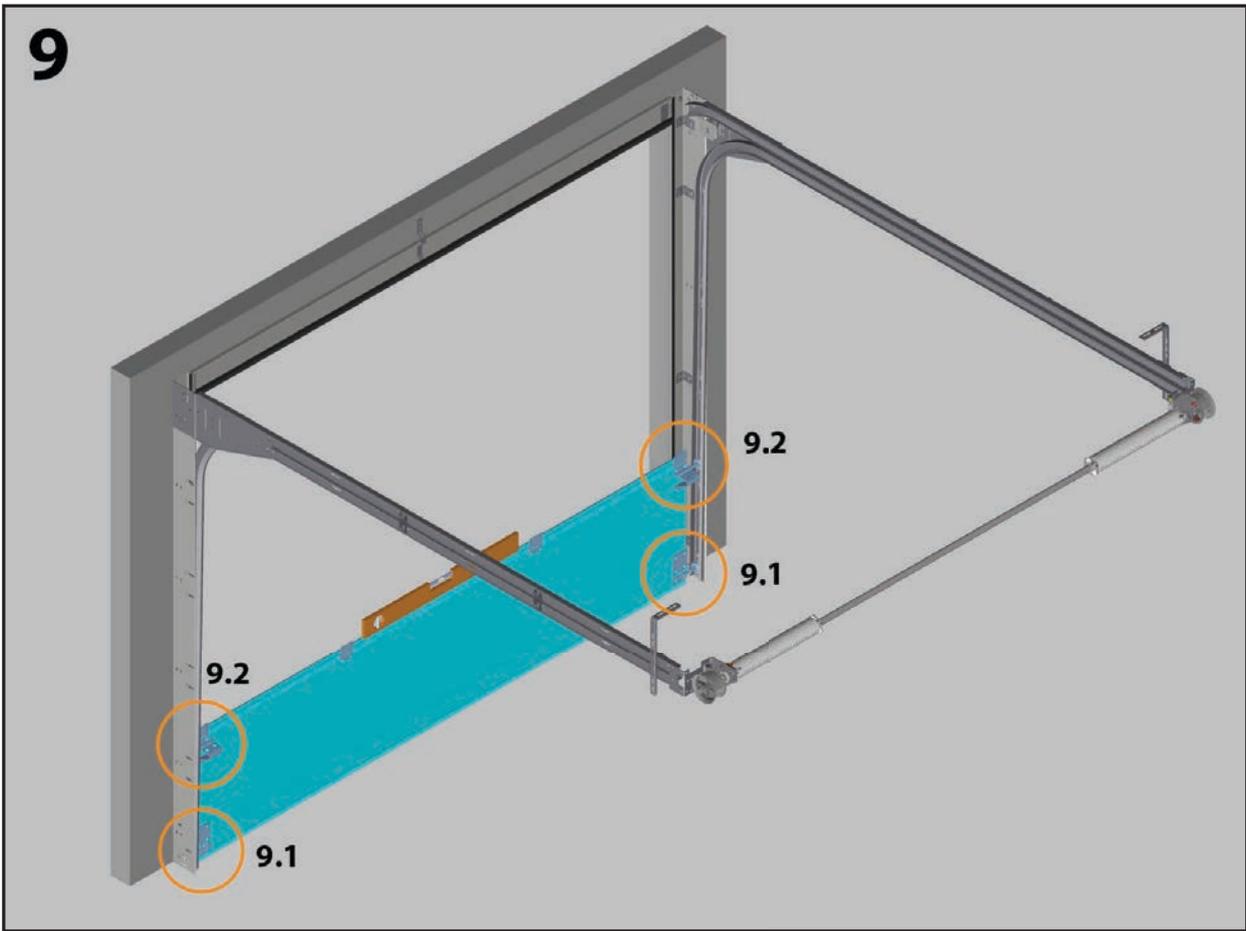




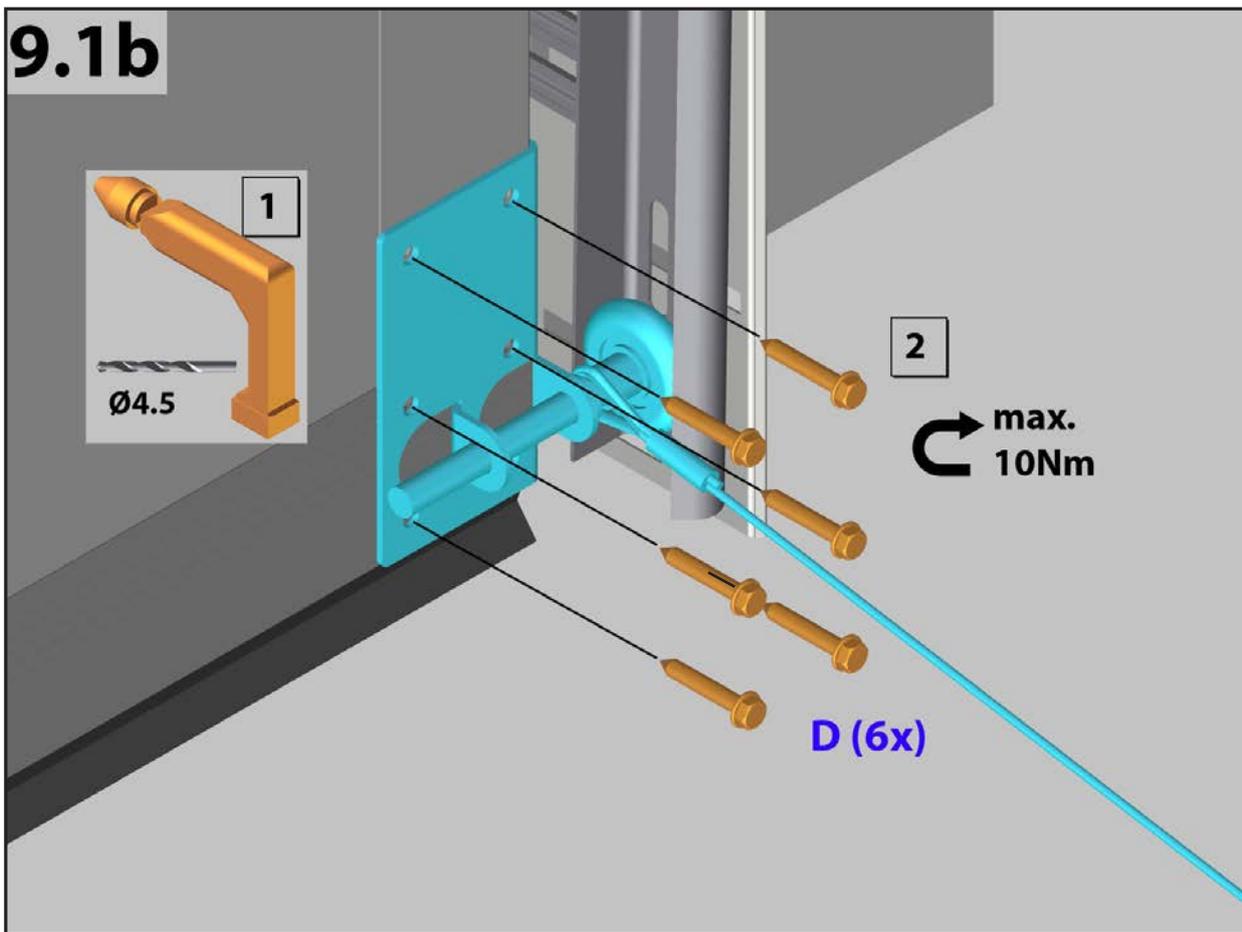




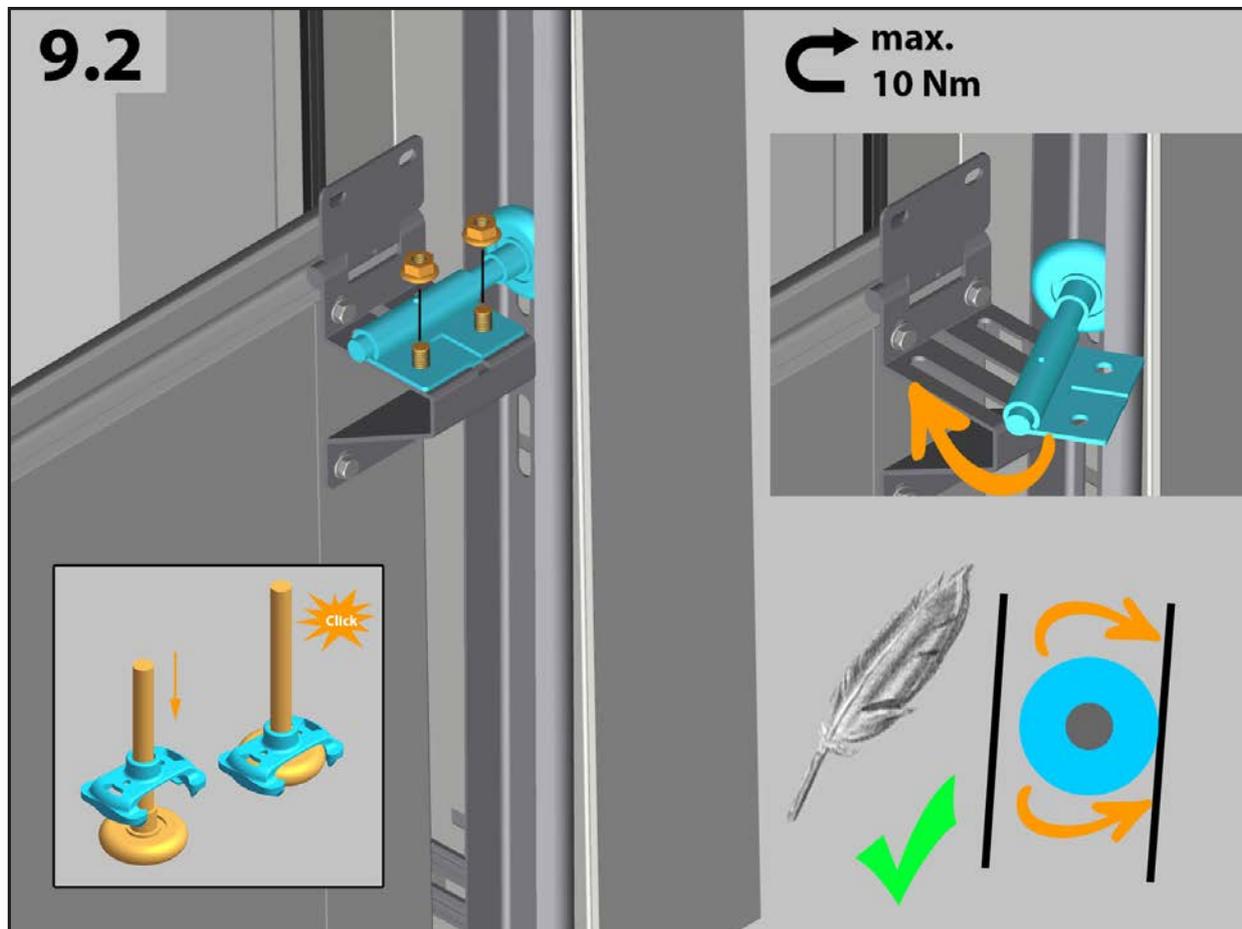


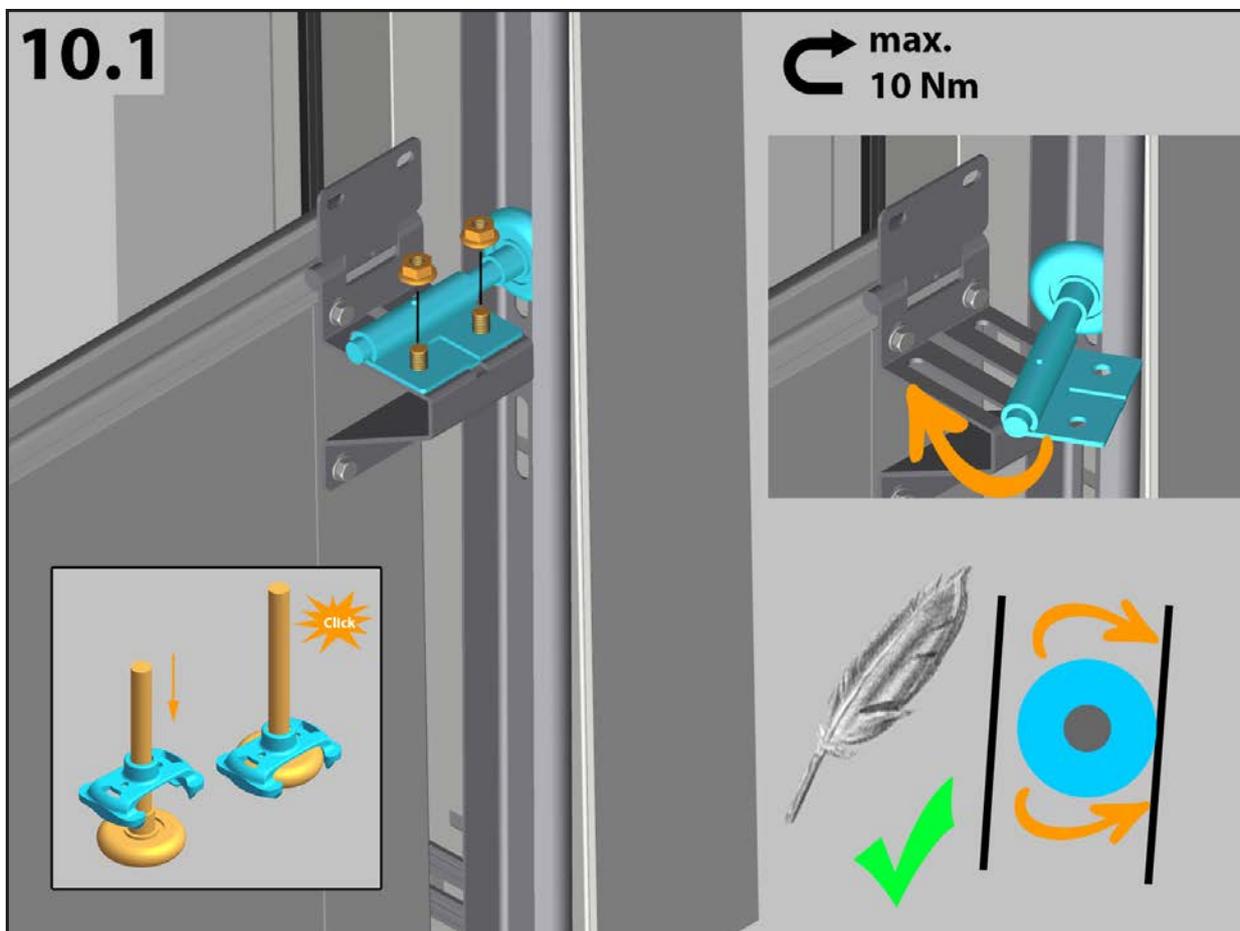
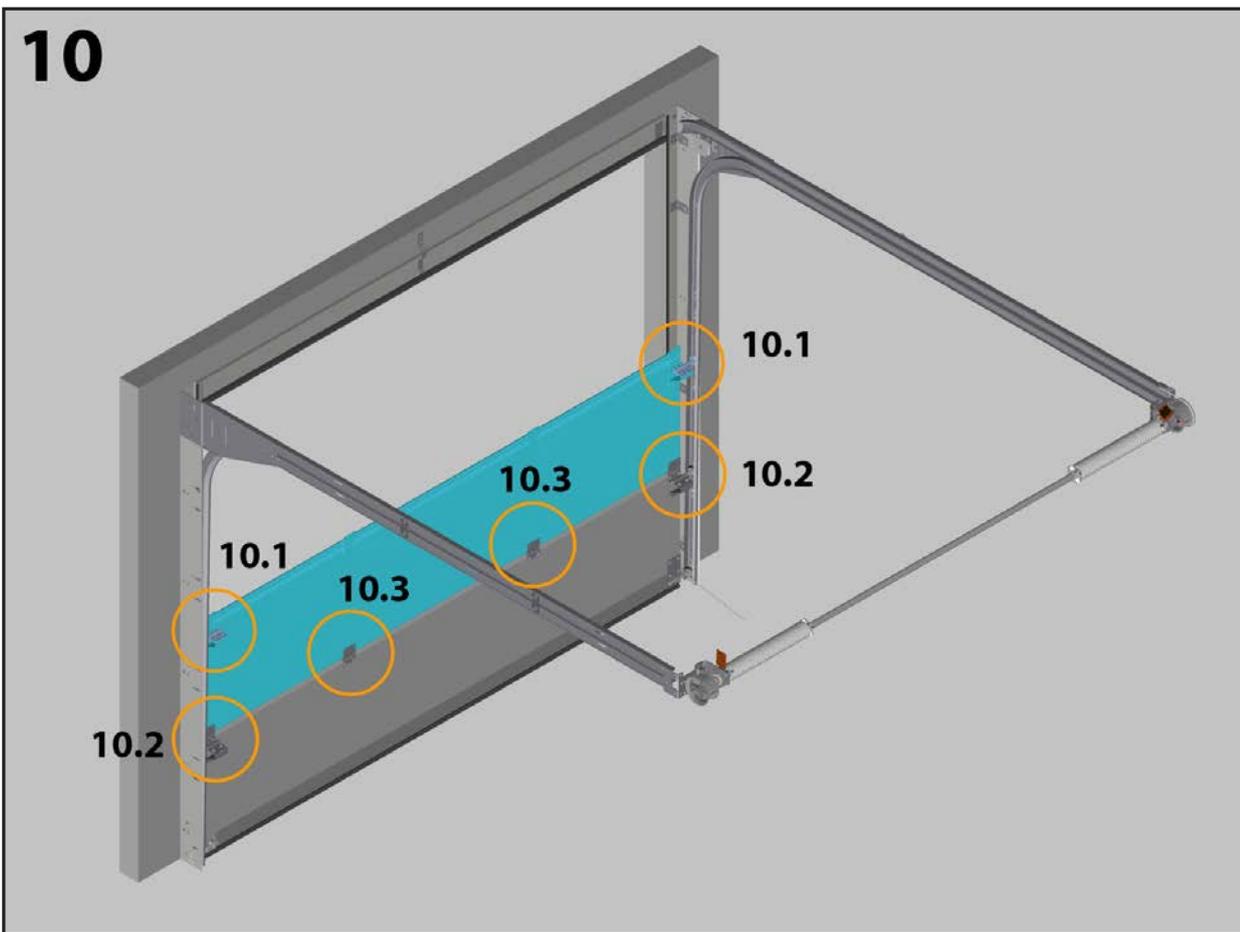


9.1b

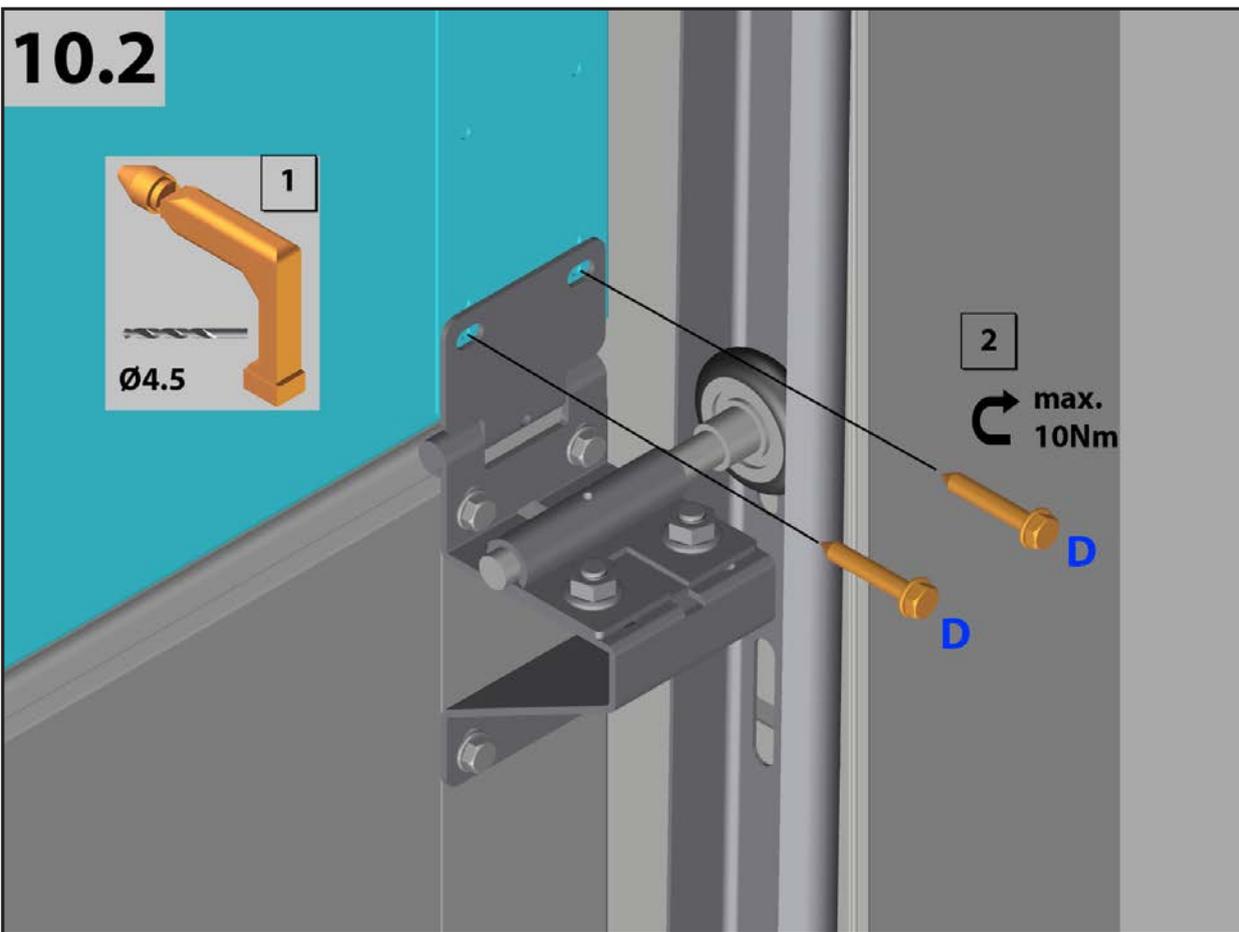


9.2

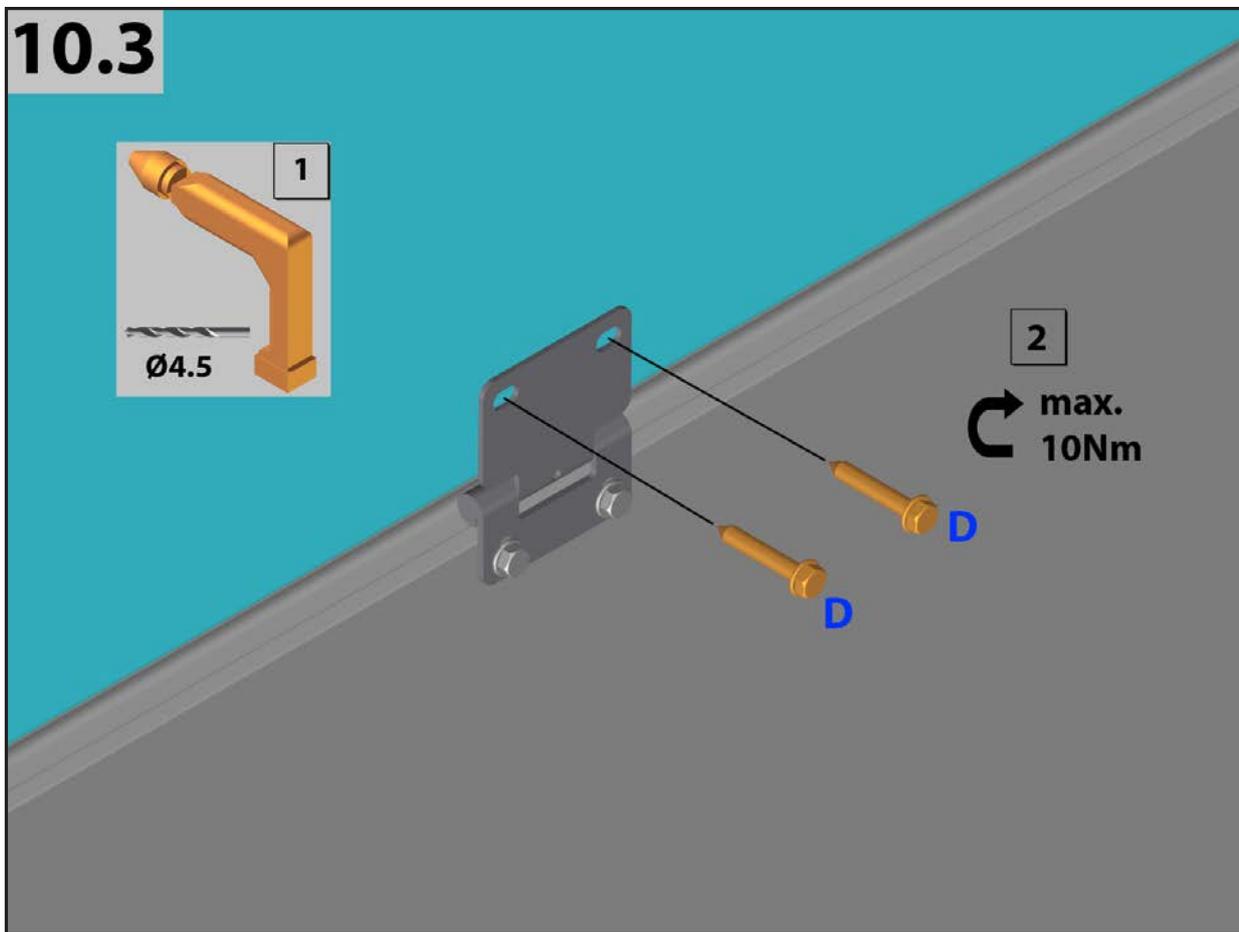
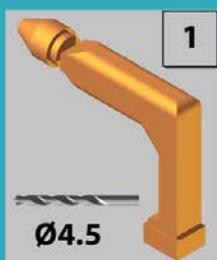


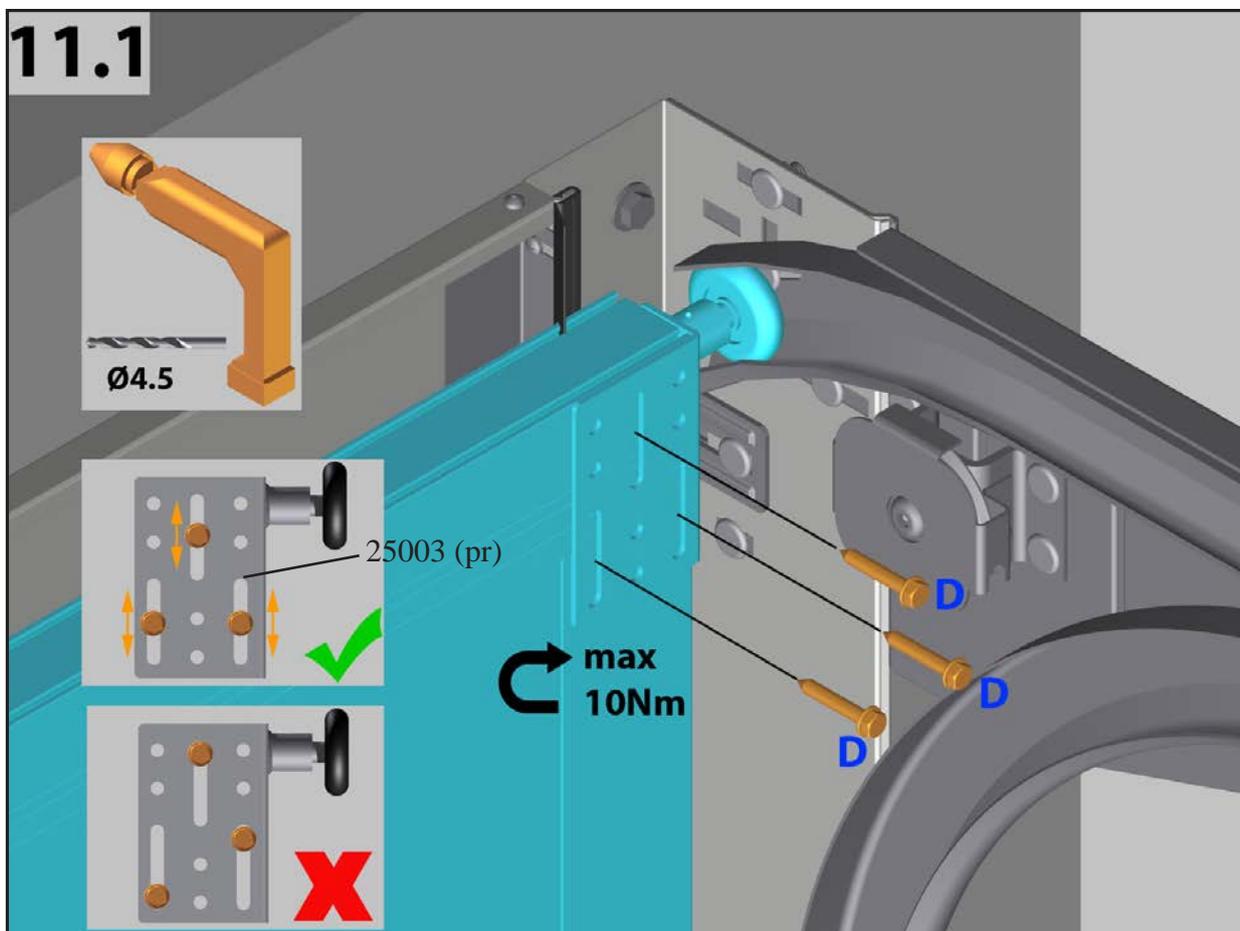
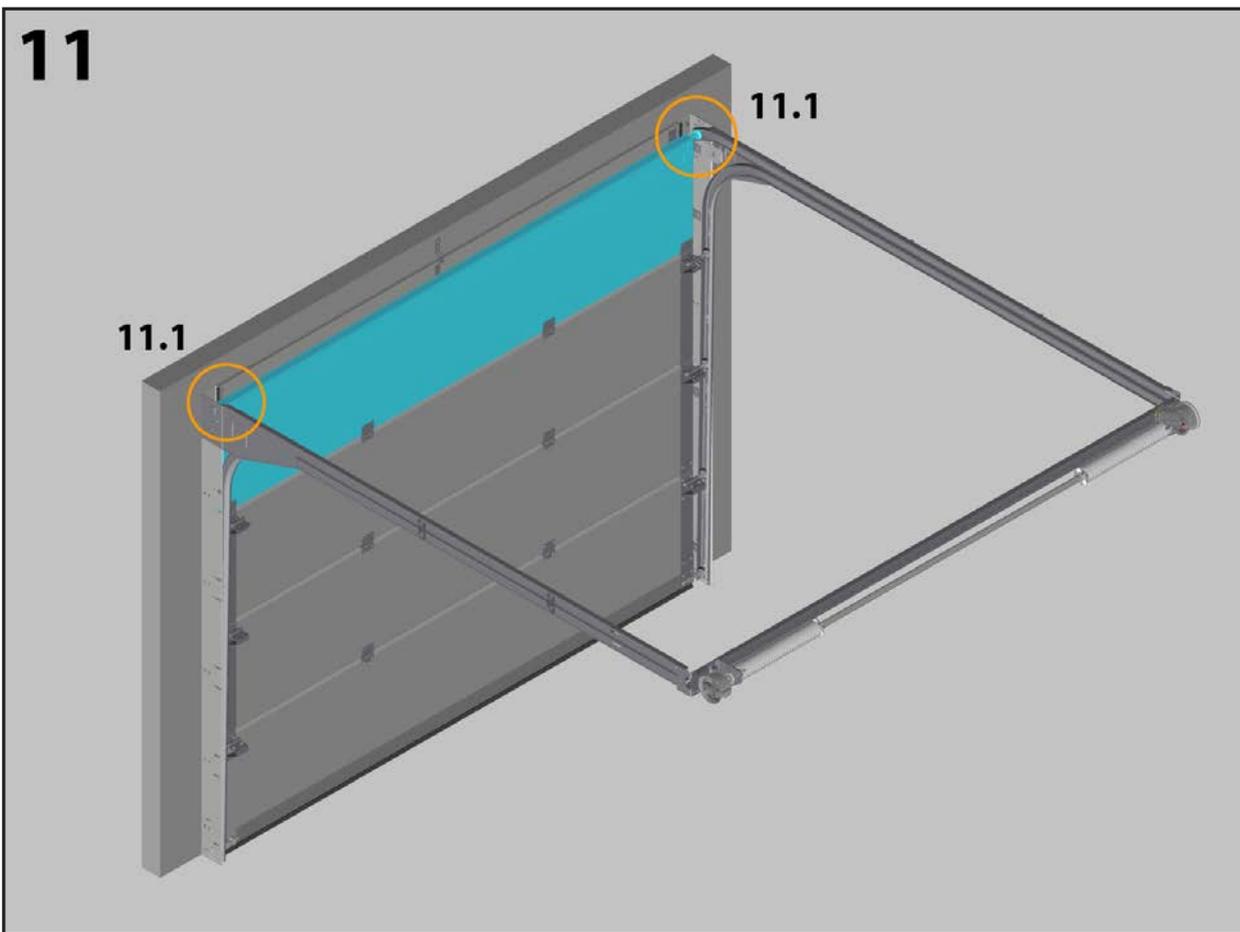


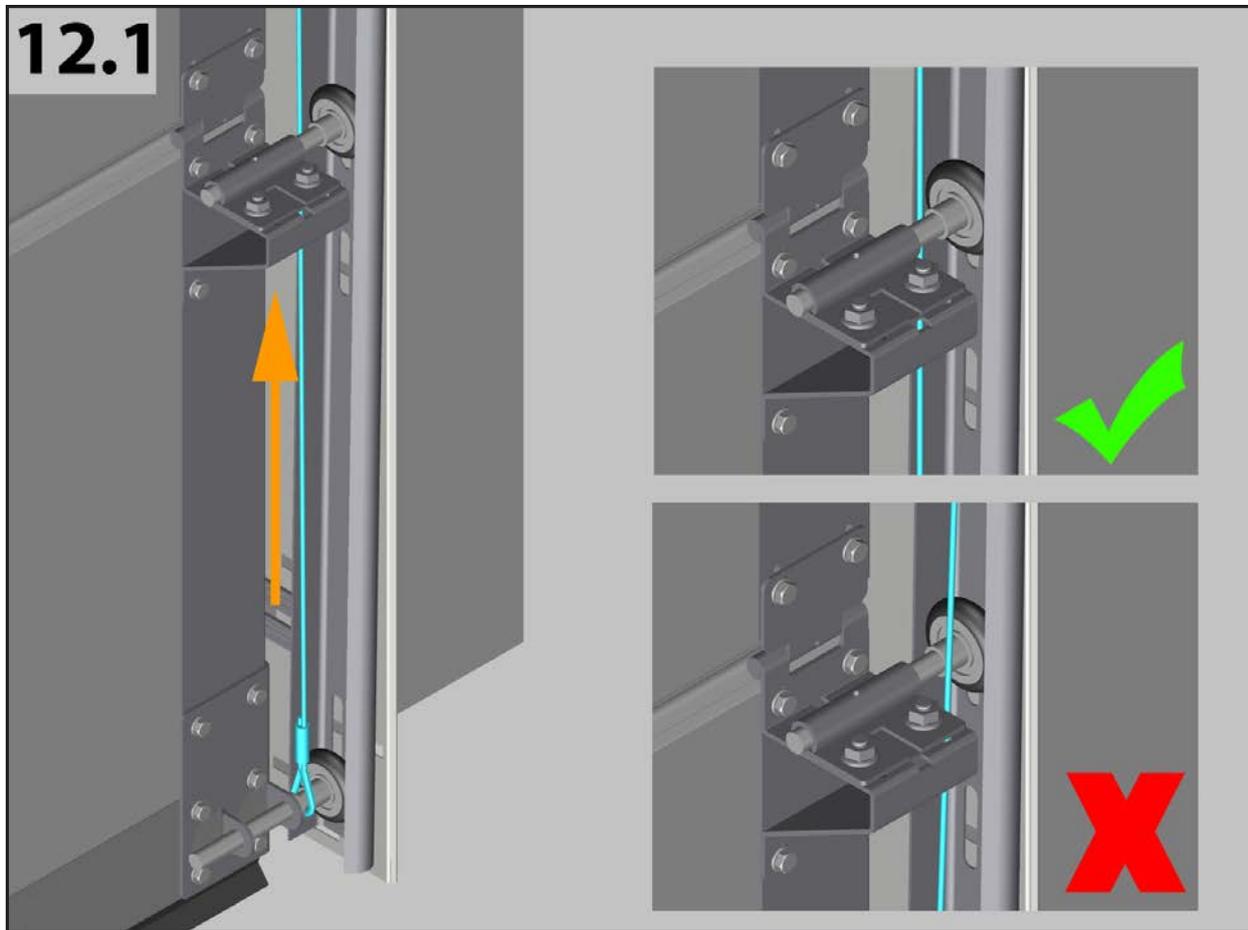
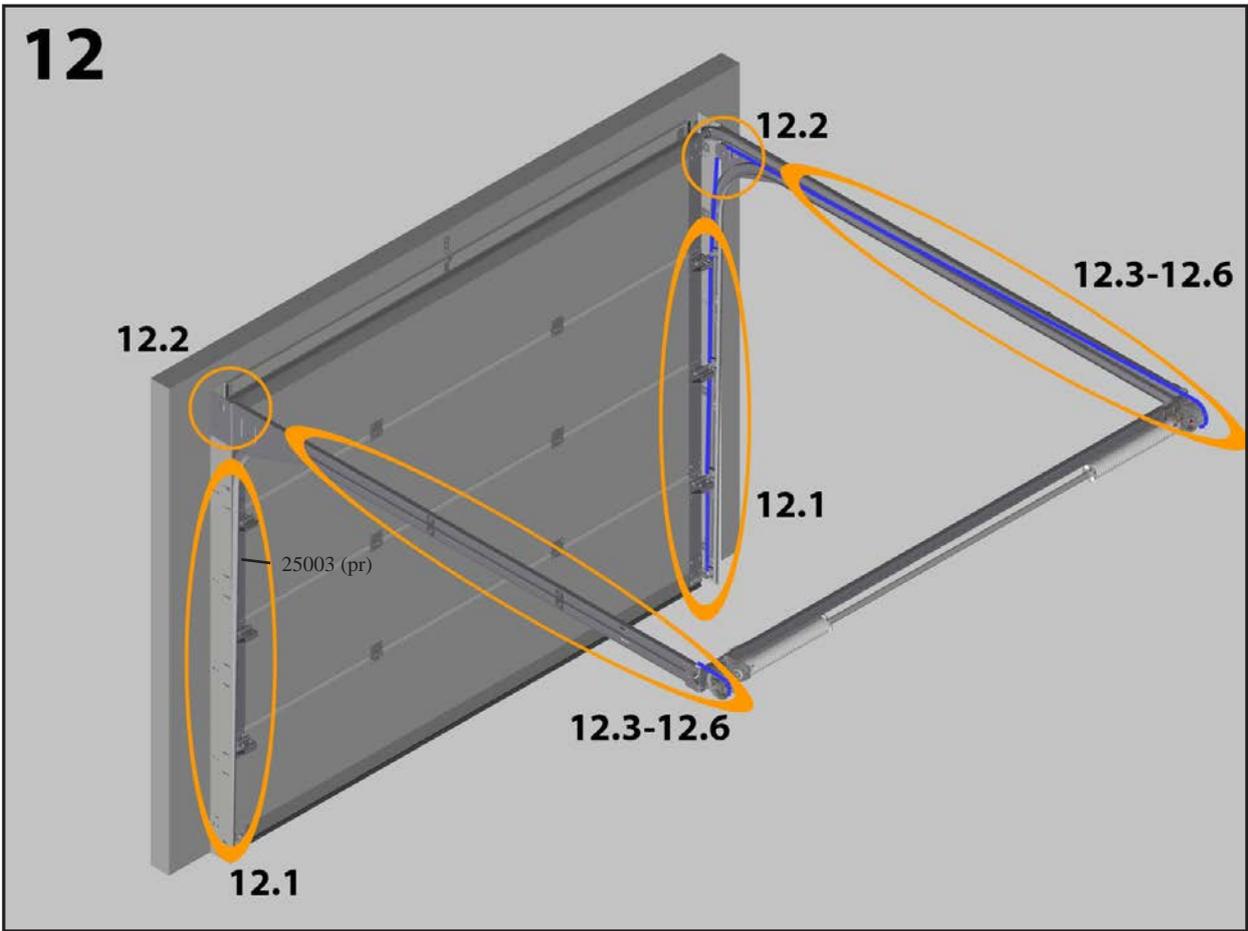
10.2

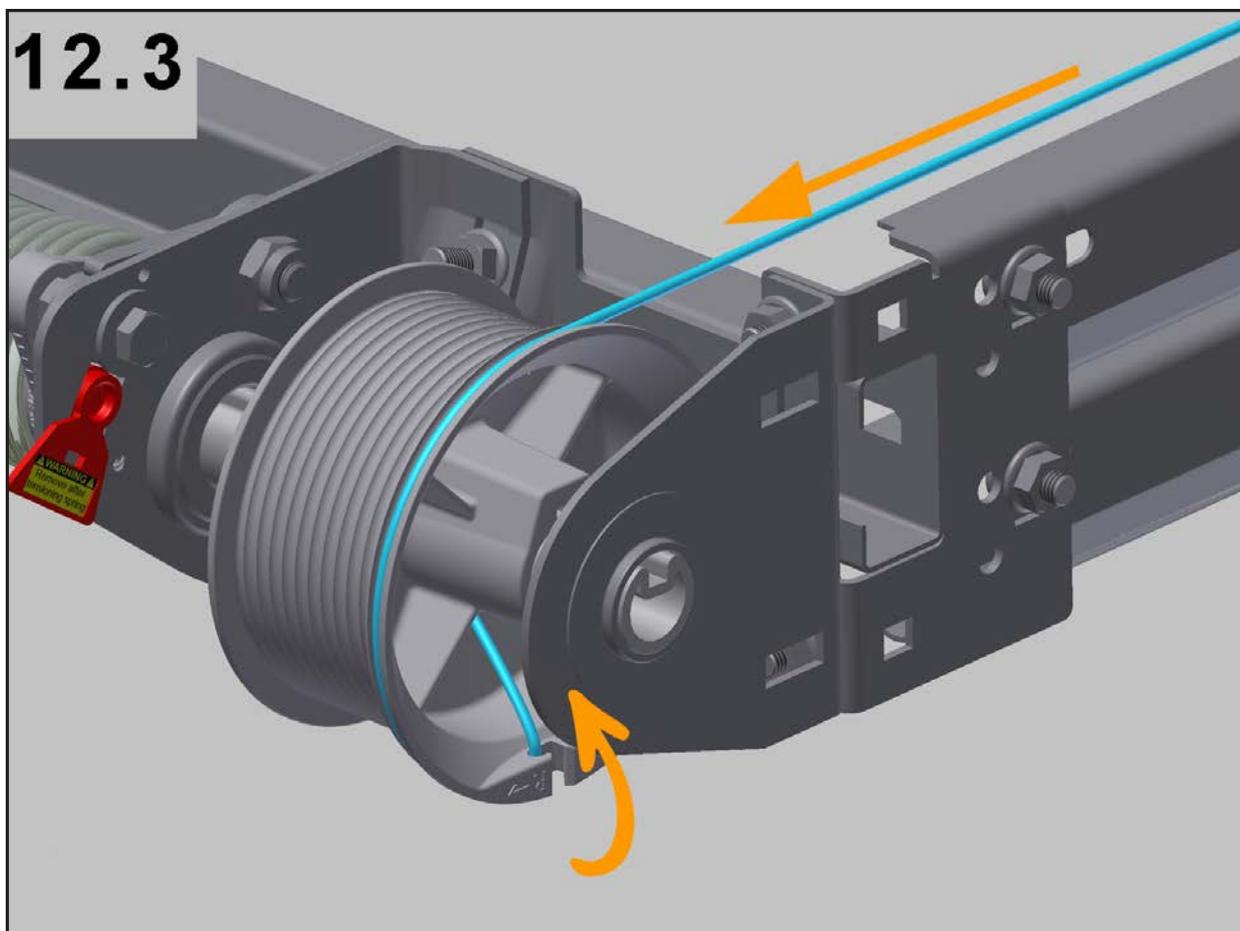
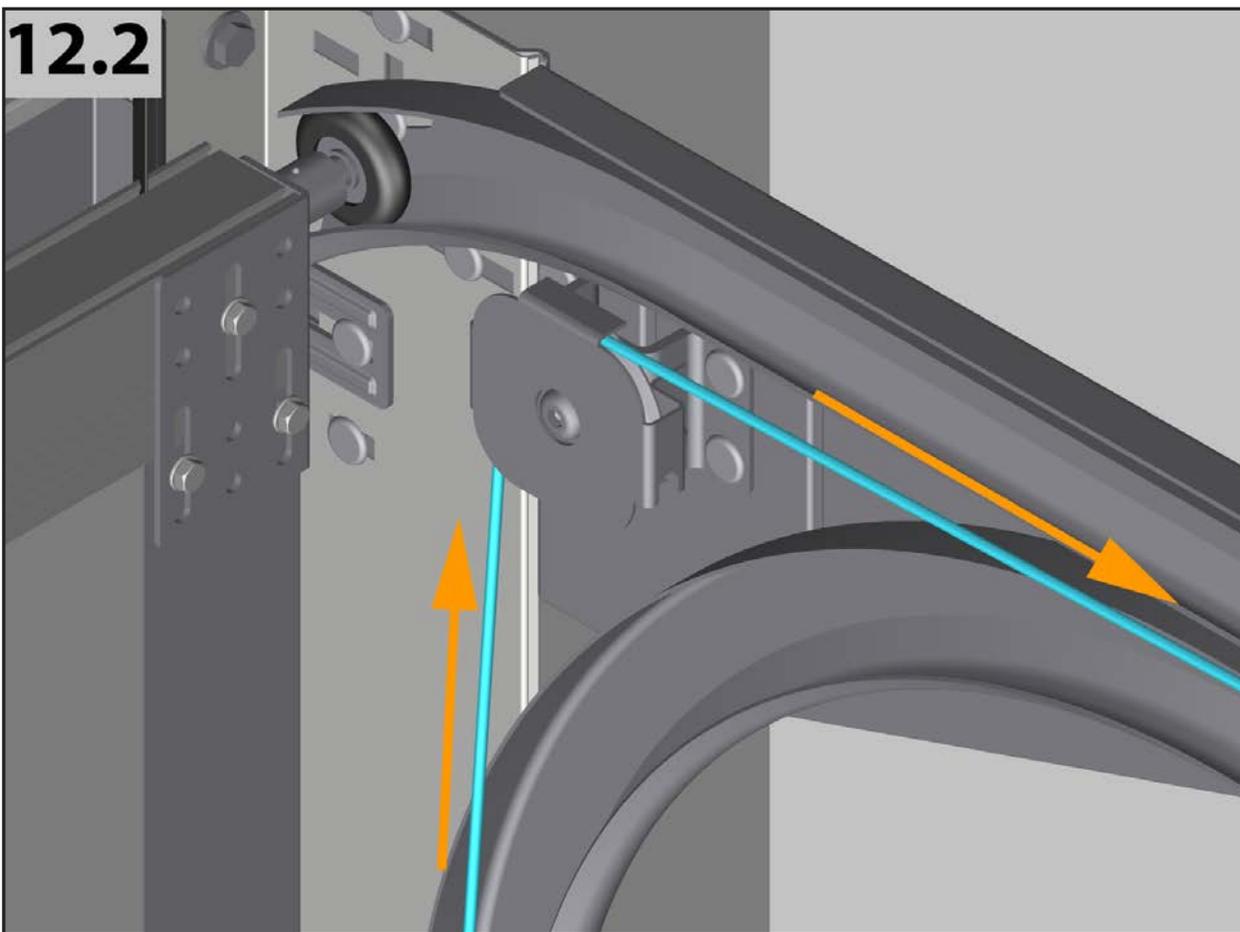


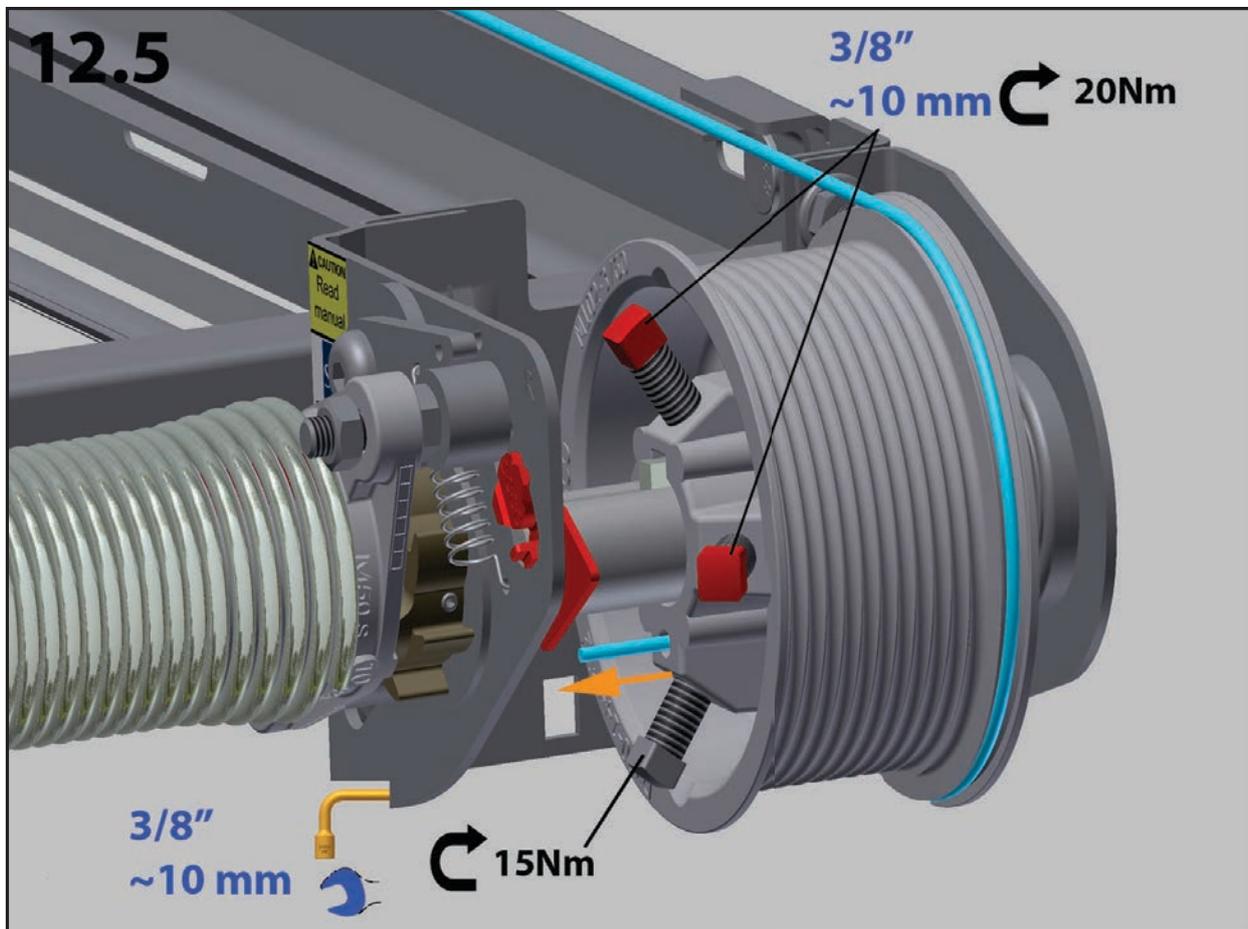
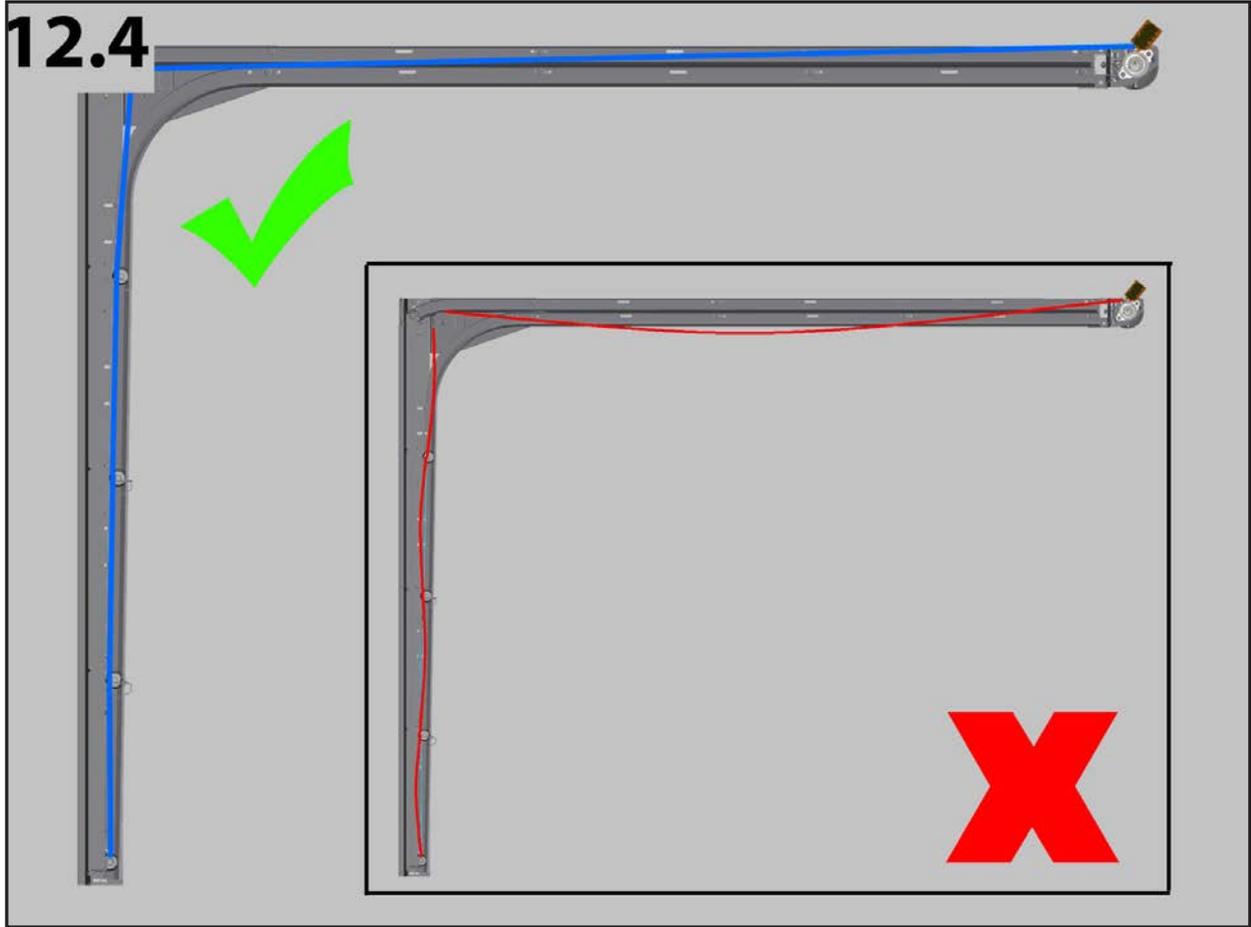
10.3

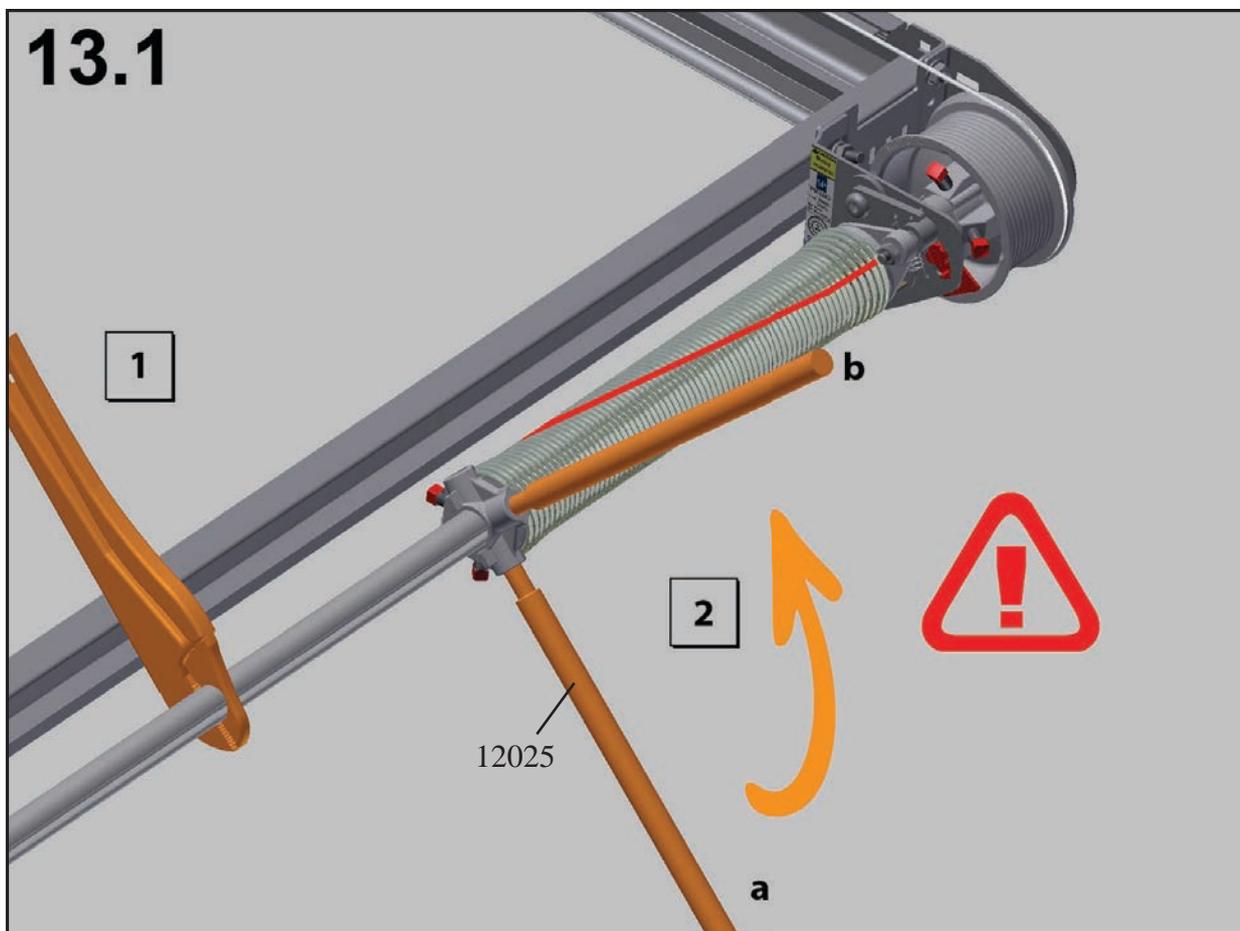
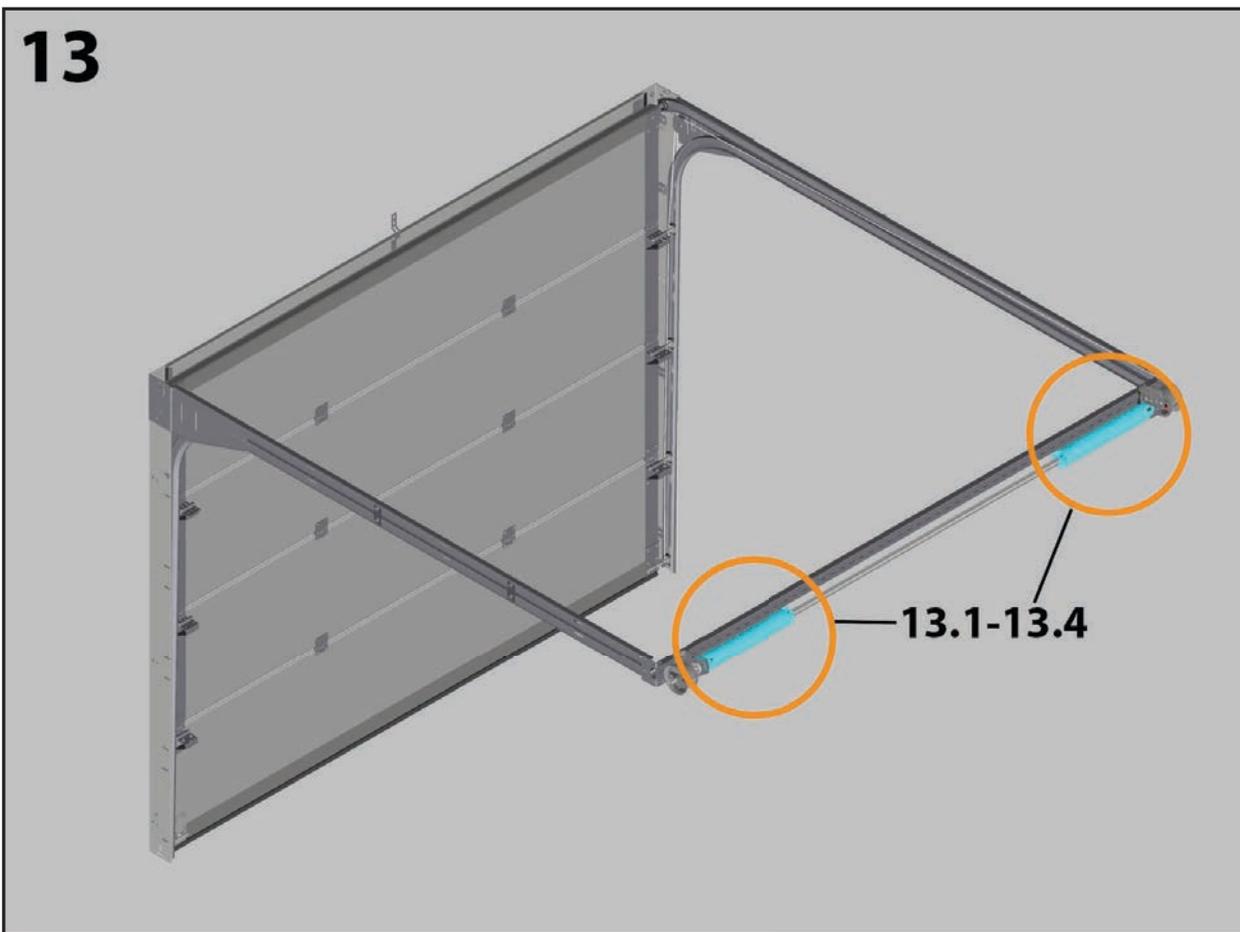




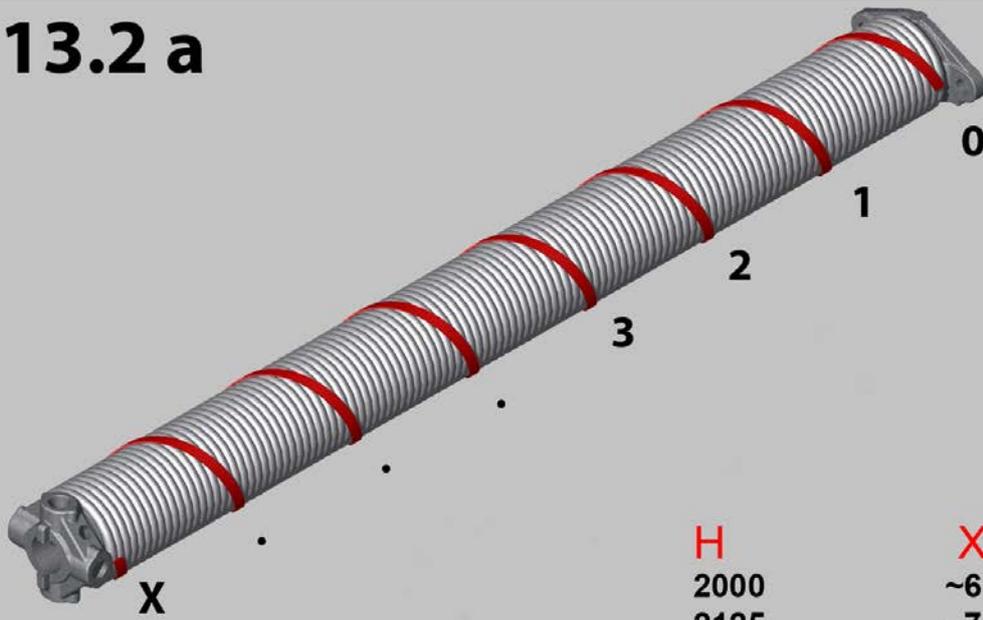






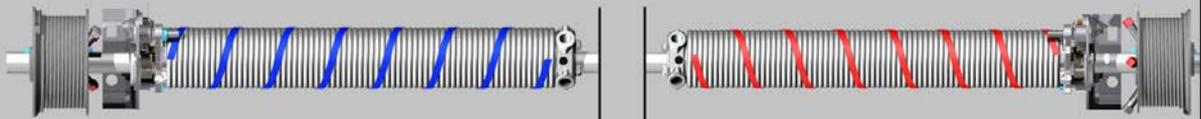


13.2 a



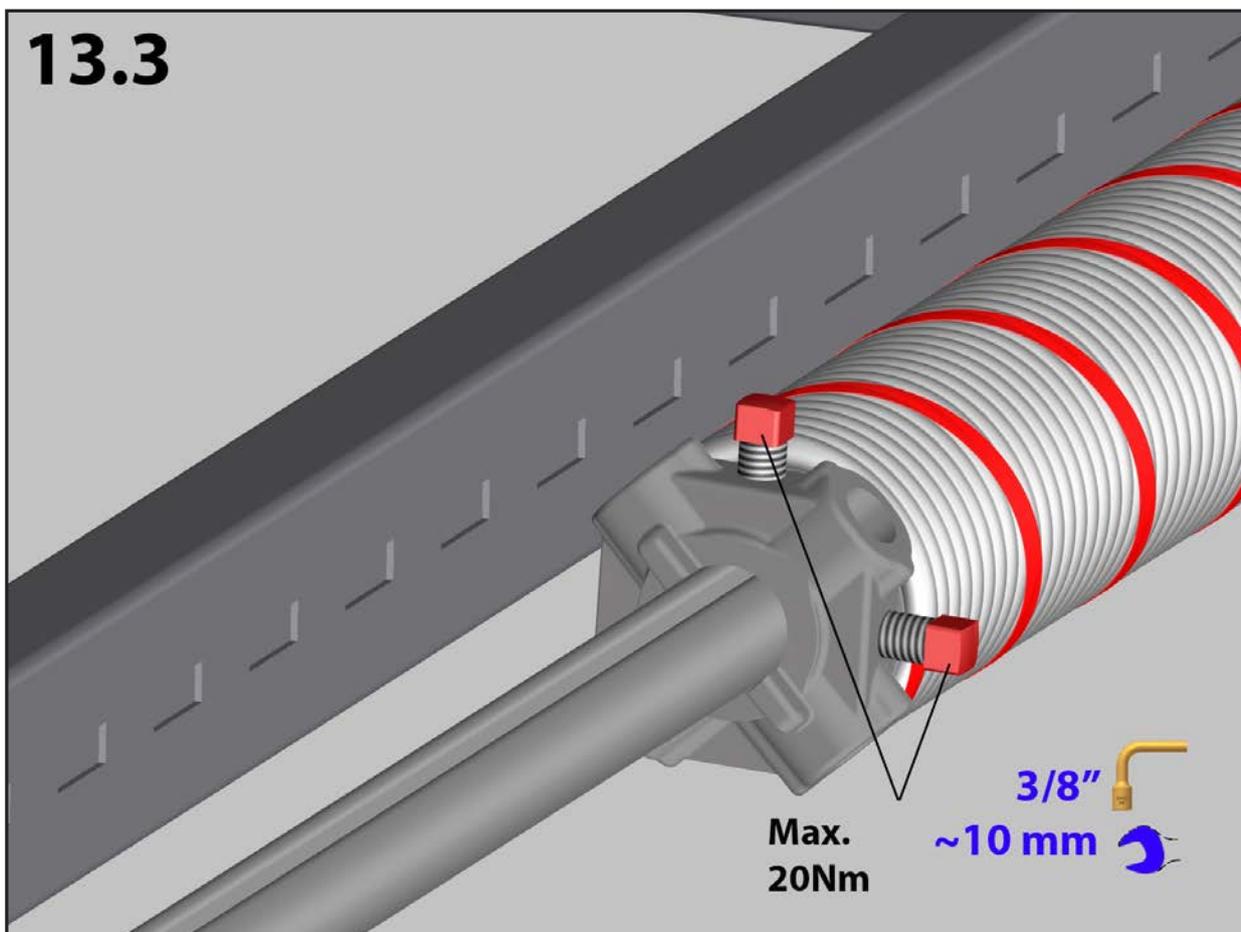
H	X
2000	~6.9
2125	~7.3
2250	~7.7
2375	~8.1
2500	~8.6
2625	~9.1
2750	~9.5
2875	~9,9
3000	~10.3

13.2 b

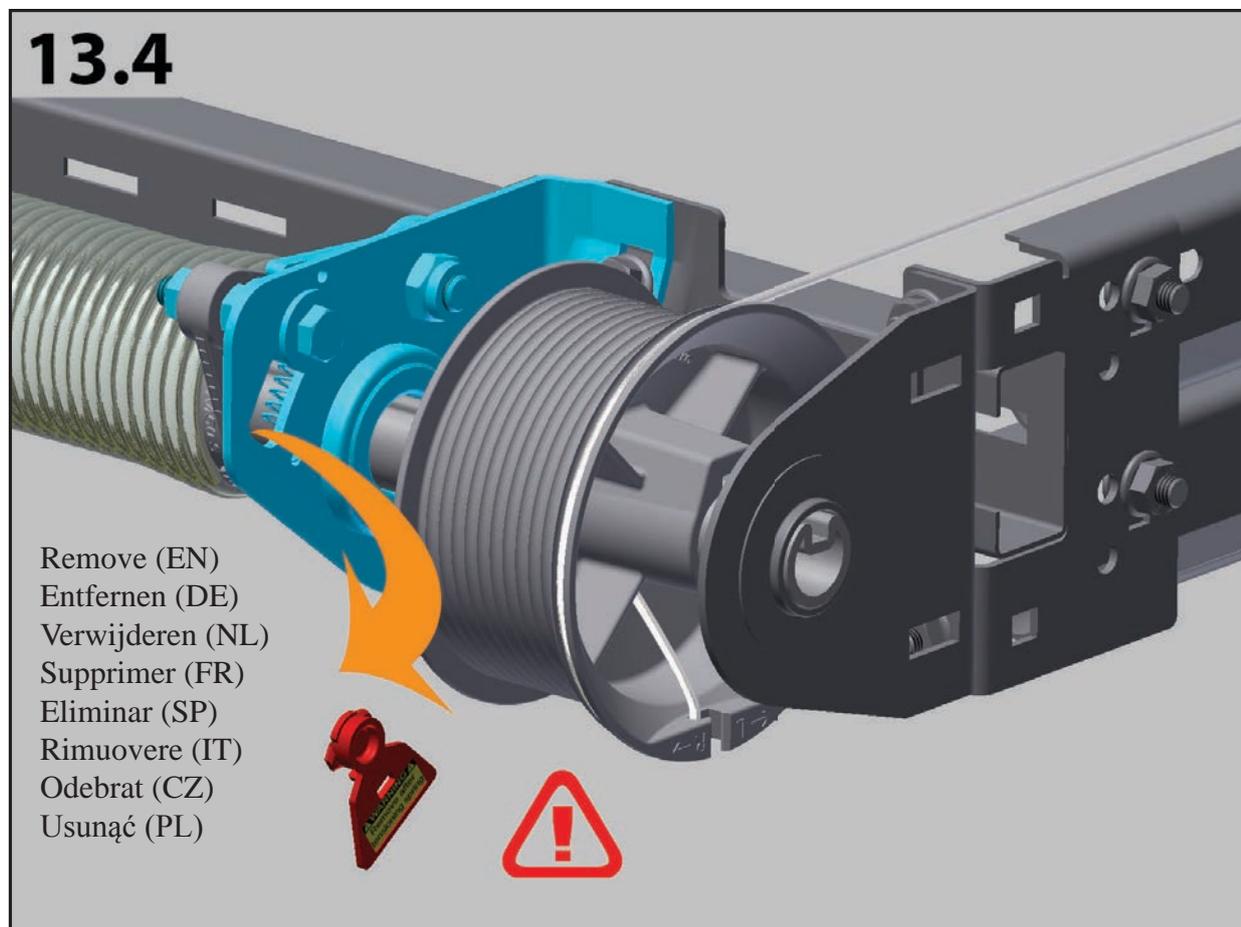


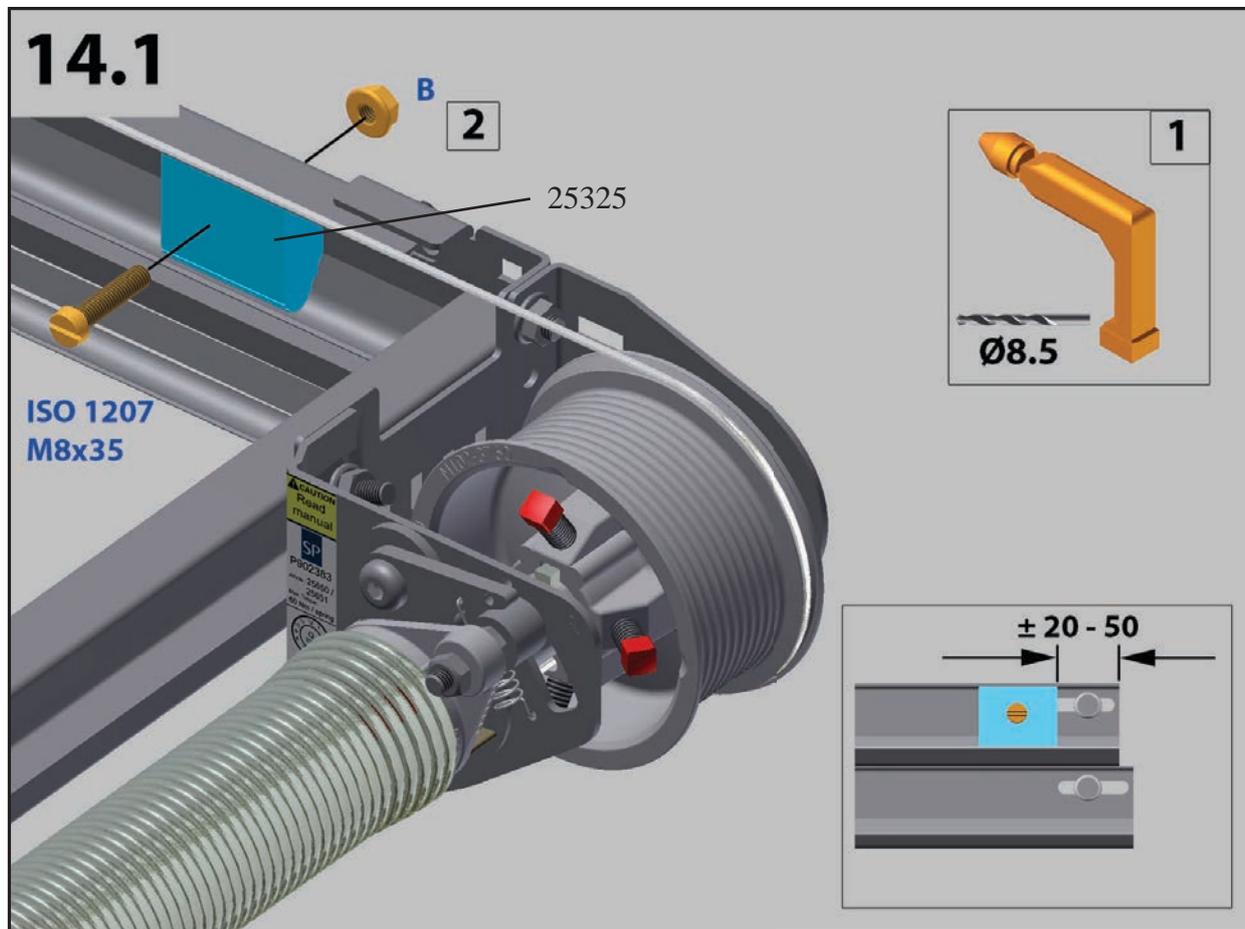
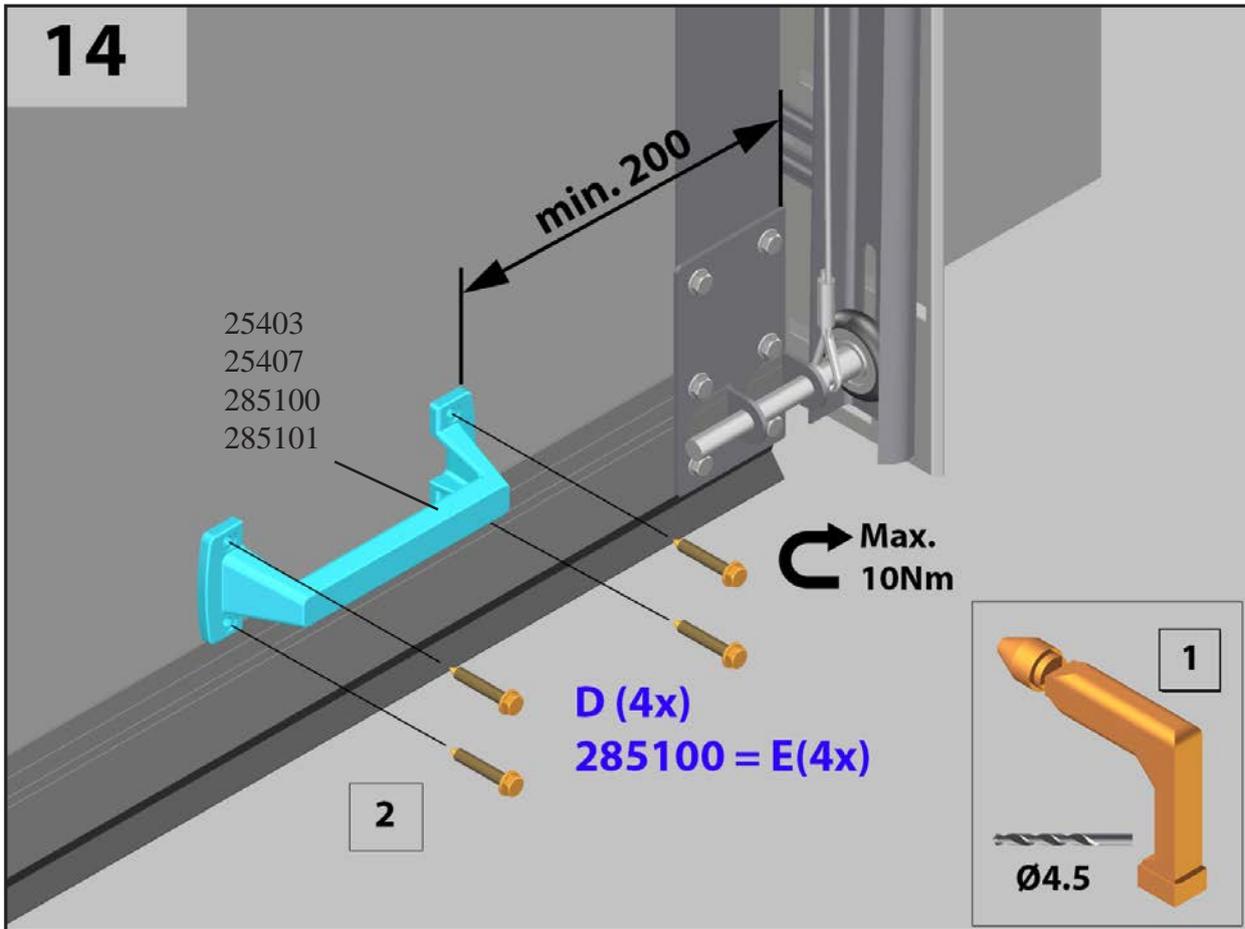
X = X

13.3



13.4





10. Handover

Handover the following documents to the end user:

- This manual (assembly, maintenance and disassembly)
- User guide
- Service manual
- Declaration of conformity (in accordance with EN-13241-1)
- Inform the end user how to handle in case of malfunctions

10.1. First use

The first use of the garage door has to be carried out by an installer. After that the users can be instructed.

For more information refer to the user guide.

11 Electric operator (optional)

Mount the operator according the supplier's manual.

NOTE:

In case of power failure it should be possible to unlock the door using the emergency release from the operator .

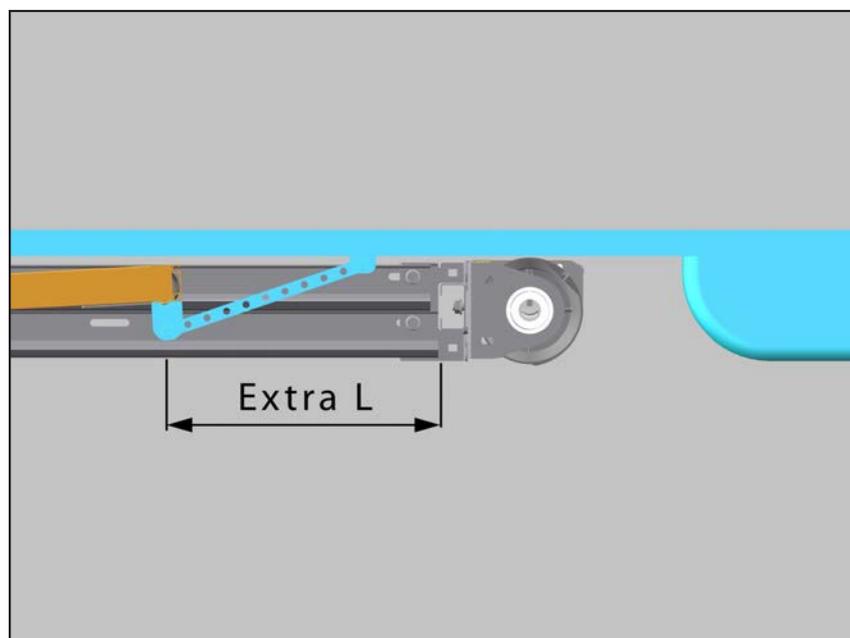
The door leaf may only in that case, be operated with a handle.

If there is no second entrance to the garage, we recommend an external release lock (art 60011) be fitted.

Do not fit a pull cord, shoot bolt or lock to an electrically operated door .

Ensure that the horizontal tracks are long enough for the electrically operator, this is with reference to the operator drawbar (see below).

In the event that the tracks are too short, a longer horizontal track kit should be used.



11.1 Operator settings

Adjustment to the operator should be carried out in accordance with the operator manufacturers manual.

Please note that our hardware kits have been CE approved for use with the operators specified in our ITT report and enclosure B. Should a different operator be chosen, then the installer must carry out a peak force analysis in accordance with EN 12445 and EN 12453.

12 Disassembly

The door should be disassembled in the reverse sequence to the assembly manual.

12.1 Disposal

All parts of this garage door can be easily disposed of.

Please consult your local authorities on this matter

13 Maintenance

In accordance with EU standards, sectional overhead doors should be checked, from the first time of use, based on the indicated service by the installer.

This inspection service has to be recorded written.

This inspection service should be carried out by an approved installer cq company.

Directly after installing:

- | | |
|---|--------------|
| 1) lubricate the tracks (advice: PTFE spray) | By Installer |
| 2) lubricate bearings, and rollers (advice: PTFE spray) | By Installer |
| 3) lubricate pins of the hinges from intermediate- and side-hinges (advice: PTFE spray) | By Installer |
| 4) lubricate sealing rubbers (advice: special rubber grease or talcum powder) | By Installer |

After 3 months:

- | | |
|---|--------------|
| 1) Re-tensioning springs (relaxation springs) | By Installer |
| 2) visual inspection | By Installer |

Every 6 months or every 750 door cycles:

- | | |
|--|----------|
| 1) remove debris from the door and surroundings | By: user |
| 2.lubricate the tracks (advice: PTFE spray) | By: user |
| 3.lubricate bearings, shafts and rollers (advice PTFE spray) | By: user |
| 4.lubricate pins of the hinges from intermediate- and side-hinges (advice: PTFE spray) | By: user |
| 5.lubricate sealing rubbers (advice: special rubber grease or talcum powder) | By: user |
| 6.clean the panels (advice: shampoo for car cleaning with water), do not use aggressive detergents | By: user |
| 7.wax the panels (advice: car wax) | By: user |

Every 12 months or every 1500 door cycles :

- | | |
|--|--------------|
| 1) check the cables, the end connections from the cable drums and bottom brackets on wear or damages | By Installer |
| 2.check the spring break devices in accordance with separate manual | By Installer |
| 3.check the balance of the door | By Installer |
| 4.check the pulley (if present) for wear or damages | By Installer |
| 5.check the rollers for wear and damages | By Installer |
| 6.check the closing forces of the main closing edge | By Installer |
| 7.check the suspension from the horizontal track to the ceiling | By Installer |
| 8.check the weather strips for wear or damages | By Installer |
| 9.check the bottom seal for wear or damages | By Installer |
| 10.check the rubber seals on the top panel for wear of damage | By Installer |
| 11.check the shaft coupler (if present) | By Installer |
| 12.lubricate the torsion springs | By Installer |

Doco International B.V.
Nusterweg 96
6136 KV Sittard
P.O. Box 427
6130 AK Sittard
The Netherlands
Tel: +31 (0) 464200666
Fax: +31 (0) 464526894

Doco International Central Europe s.r.o.
Háj 352
798 12 Kralice na Hané
Czech Republic
Tel: +420 582 360 100
Fax: +420 582 360 300

Doco International Southern Europe S.L.U
P.I. Can Met Sidro
Avenida Generalitat, 55
08530 La Garriga / Barcelona
Spain
Tel: +34 9 3 861 28 25
Fax: +34 9 3 871 65 92

Doco International Limited
Unit 1 Northolt Trading Estate
Belvue Road
Northolt, Middlesex UB5 5QS
United Kingdom
Tel: +44 (0) 20 8839 8587
Fax: +44 (0) 20 8842 3661