

SFR200

Installation Manual

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1. Symbols



Danger / Attention



Look / Check



Additional manuals

2. General warnings

This manual has been prepared for use by qualified personnel and therefore not by trainees or “do it yourselves”
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 SFR200; 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 6000 mm
- Maximum height 3000 mm
- Weight door leaf maximum 295 kg
- Maximum temperature range outside*: -20 °C until +50 °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

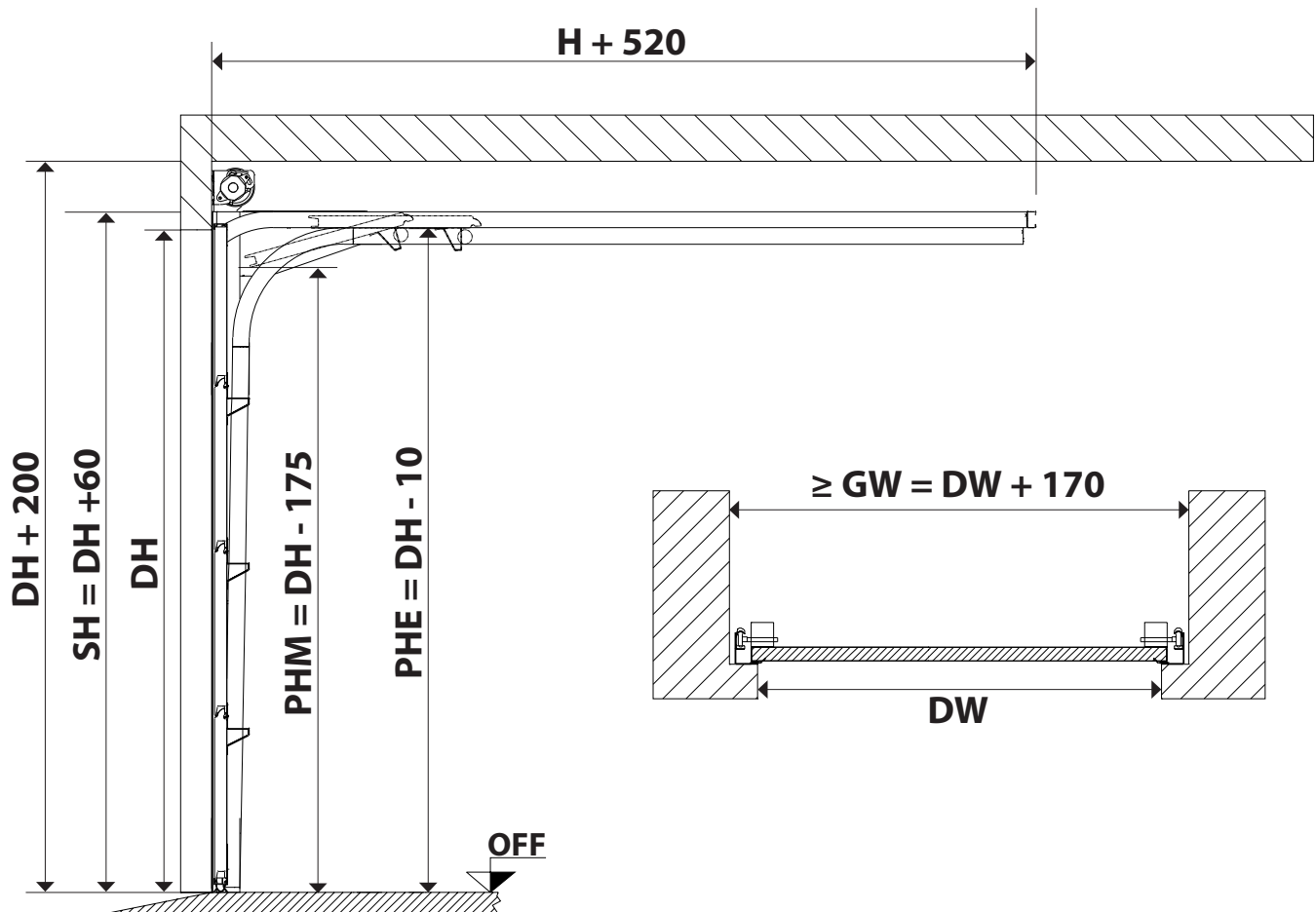
The necessary fixings to ensure the garage door to the building and/or ceiling, are not included!



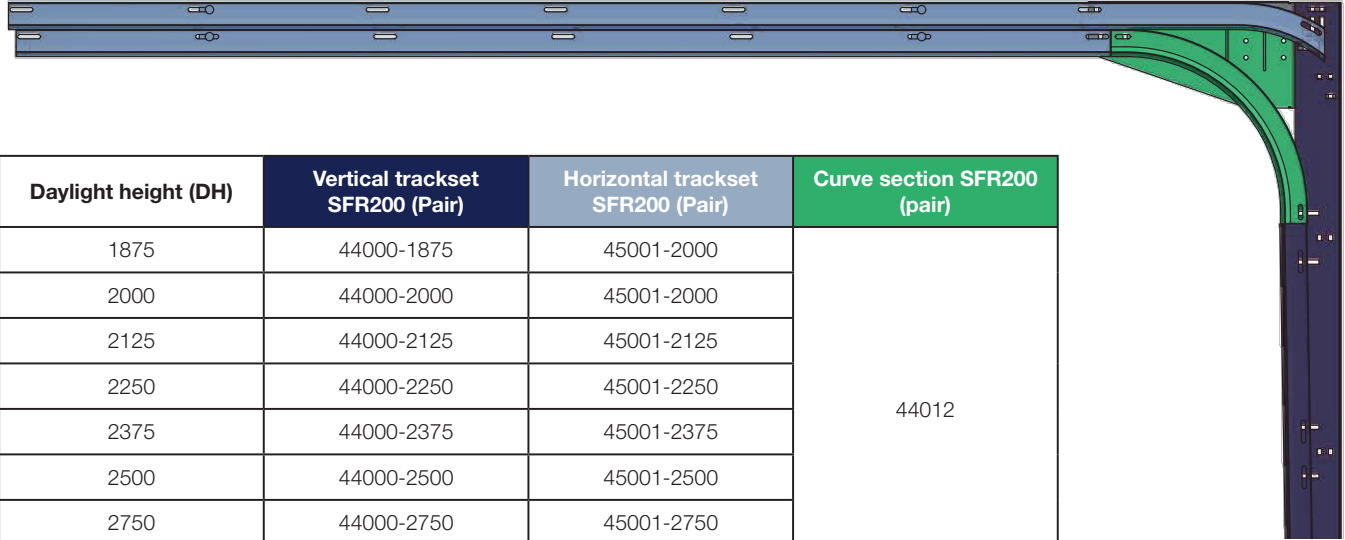
It is the responsibility of the installer to make sure that the building structure is safe/strong enough, to accept the door and its fixings.

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.

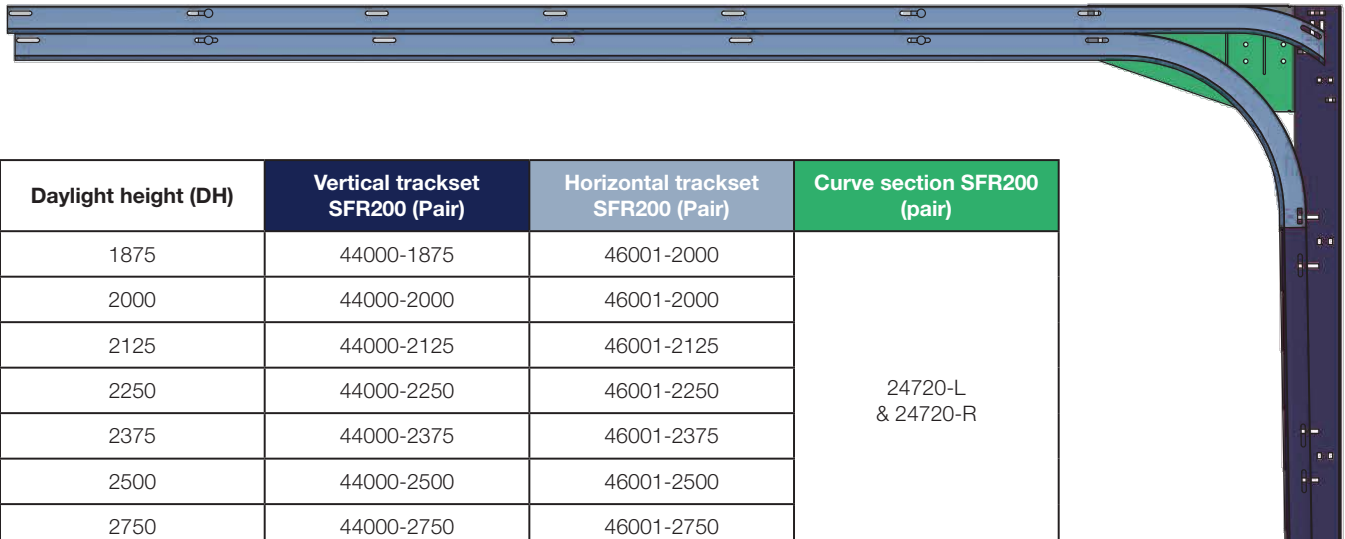
7. System overview



7.1 Pre-assembled rail set



Daylight height (DH)	Vertical trackset SFR200 (Pair)	Horizontal trackset SFR200 (Pair)	Curve section SFR200 (pair)
1875	44000-1875	45001-2000	44012
2000	44000-2000	45001-2000	
2125	44000-2125	45001-2125	
2250	44000-2250	45001-2250	
2375	44000-2375	45001-2375	
2500	44000-2500	45001-2500	
2750	44000-2750	45001-2750	
3000	44000-3000	45001-3000	



Daylight height (DH)	Vertical trackset SFR200 (Pair)	Horizontal trackset SFR200 (Pair)	Curve section SFR200 (pair)
1875	44000-1875	46001-2000	24720-L & 24720-R
2000	44000-2000	46001-2000	
2125	44000-2125	46001-2125	
2250	44000-2250	46001-2250	
2375	44000-2375	46001-2375	
2500	44000-2500	46001-2500	
2750	44000-2750	46001-2750	
3000	44000-3000	46001-3000	

7.2 Spring matrix

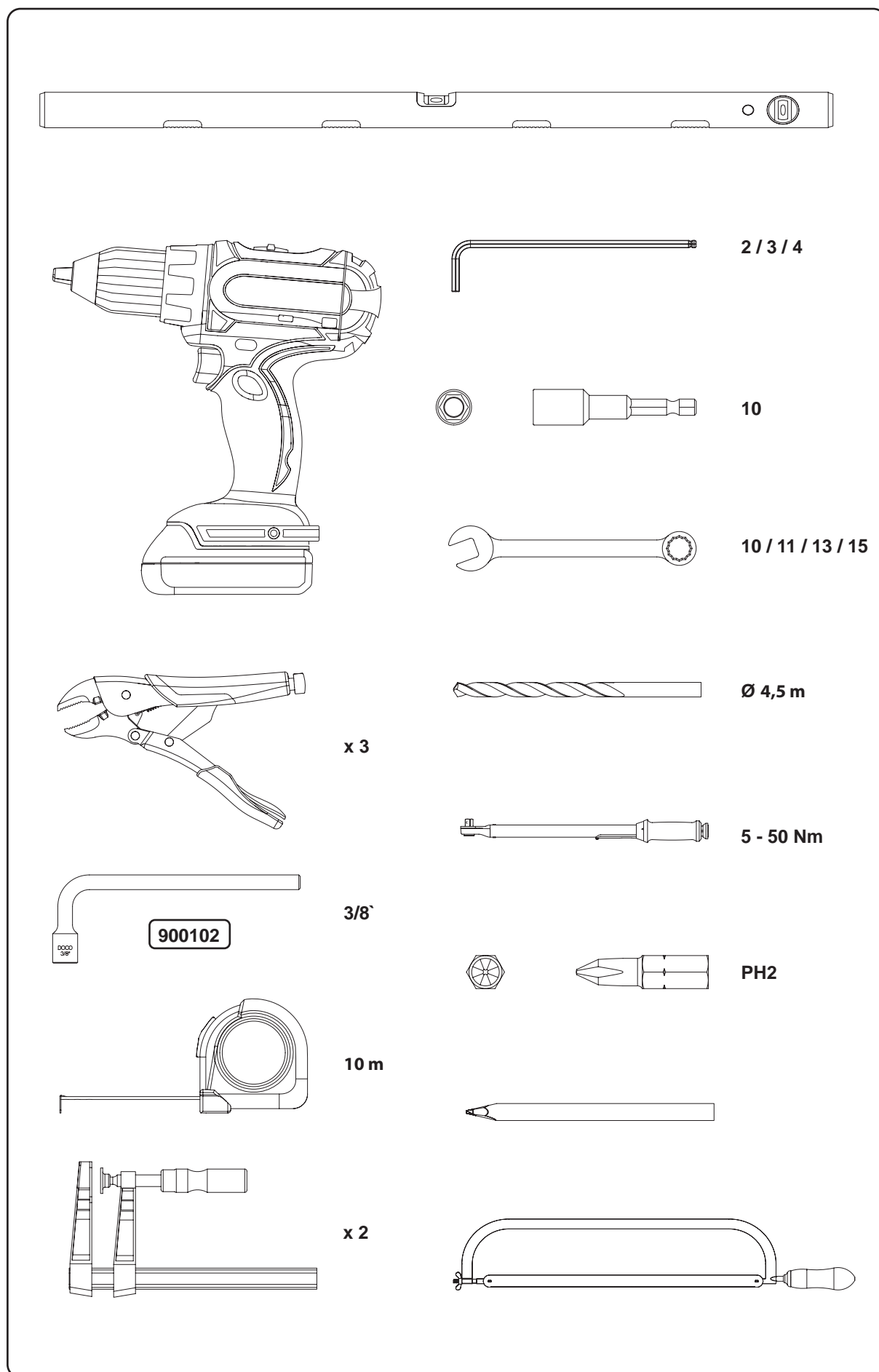
DH	2000	2125	2250	2375	2500	2625	2750	2875	3000
Spring Turns	7	7¼	7½	8	8¼	8¾	9	9½	9¾
3295005752	49 kg	52 kg	55 kg	58 kg	62 kg	65 kg	68 kg	71 kg	-
3295005512	52 kg	55 kg	59 kg	62 kg	65 kg	68 kg	-	-	-
3295005072	55 kg	59 kg	62 kg	66 kg	69 kg	-	-	-	-
3295004632	62 kg	65 kg	69 kg	-	-	-	-	-	-
3295507912	-	-	-	-	-	73 kg	76 kg	80 kg	83 kg
3295507532	-	-	-	-	73 kg	77 kg	80 kg	84 kg	88 kg
3295507202	-	-	-	-	77 kg	81 kg	85 kg	88 kg	92 kg
3295506772	68 kg	72 kg	73 kg	77 kg	81 kg	85 kg	-	-	-
3295506302	72 kg	76 kg	80 kg	85 kg	-	-	-	-	-
3295505882	78 kg	83 kg	88 kg	-	-	-	-	-	-
3296010212	-	-	-	-	-	-	89 kg	93 kg	98 kg
3296009822	-	-	-	-	-	-	93 kg	97 kg	101 kg
3296009242	-	-	-	-	89 kg	94 kg	98 kg	103 kg	107 kg
3296008622	-	-	-	93 kg	98 kg	102 kg	107 kg	112 kg	117 kg
3296008122	85 kg	90 kg	95 kg	100 kg	106 kg	111 kg	-	-	-
3296007602	91 kg	97 kg	102 kg	108 kg	114 kg	-	-	-	-
3296007172	98 kg	104 kg	110 kg	116 kg	-	-	-	-	-
3296006812	104 kg	111 kg	117 kg	-	-	-	-	-	-
3296511822	-	-	-	-	-	-	116 kg	115 kg	129 kg
3296510782	-	-	-	-	-	119 kg	125 kg	131 kg	137 kg
3296510192	-	-	-	-	122 kg	128 kg	134 kg	140 kg	146 kg
3296509712	-	-	-	124 kg	130 kg	137 kg	-	-	-
3296509232	111 kg	117 kg	124 kg	131 kg	138 kg	-	-	-	-
3296508812	117 kg	124 kg	131 kg	139 kg	-	-	-	-	-
3296508422	123 kg	131 kg	138 kg	-	-	-	-	-	-
3397011212	-	-	-	-	-	-	-	141 kg	148 kg
3397010662	-	-	-	-	-	-	143 kg	150 kg	156 kg
3397010072	-	-	-	-	-	145 kg	152 kg	159 kg	165 kg
3397009752	-	-	-	-	146 kg	153 kg	161 kg	168 kg	-
3397009162	-	-	-	146 kg	154 kg	162 kg	170 kg	-	-
3397008862	130 kg	138 kg	146 kg	154 kg	163 kg	-	-	-	-

Lifetime expectation less than 15.000 cycles

Notes:

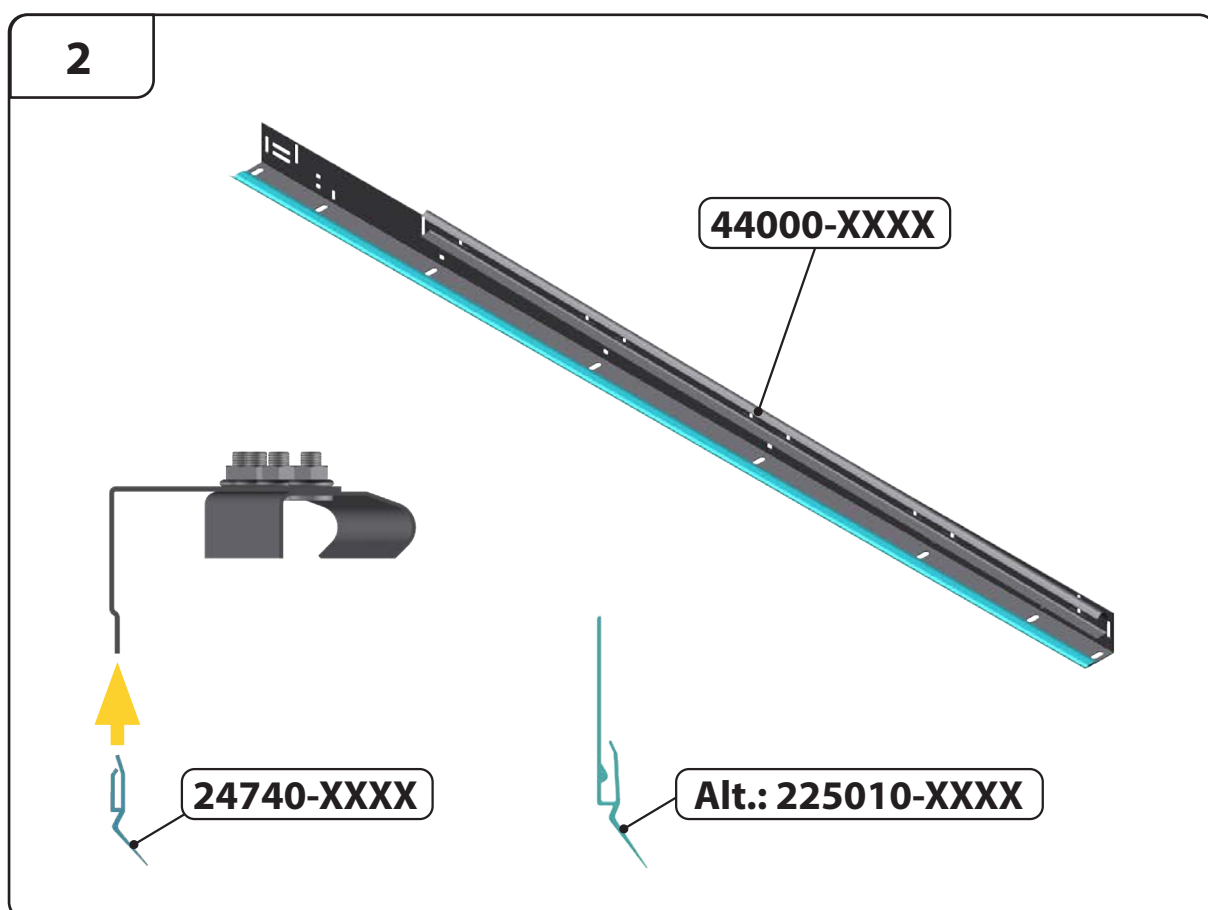
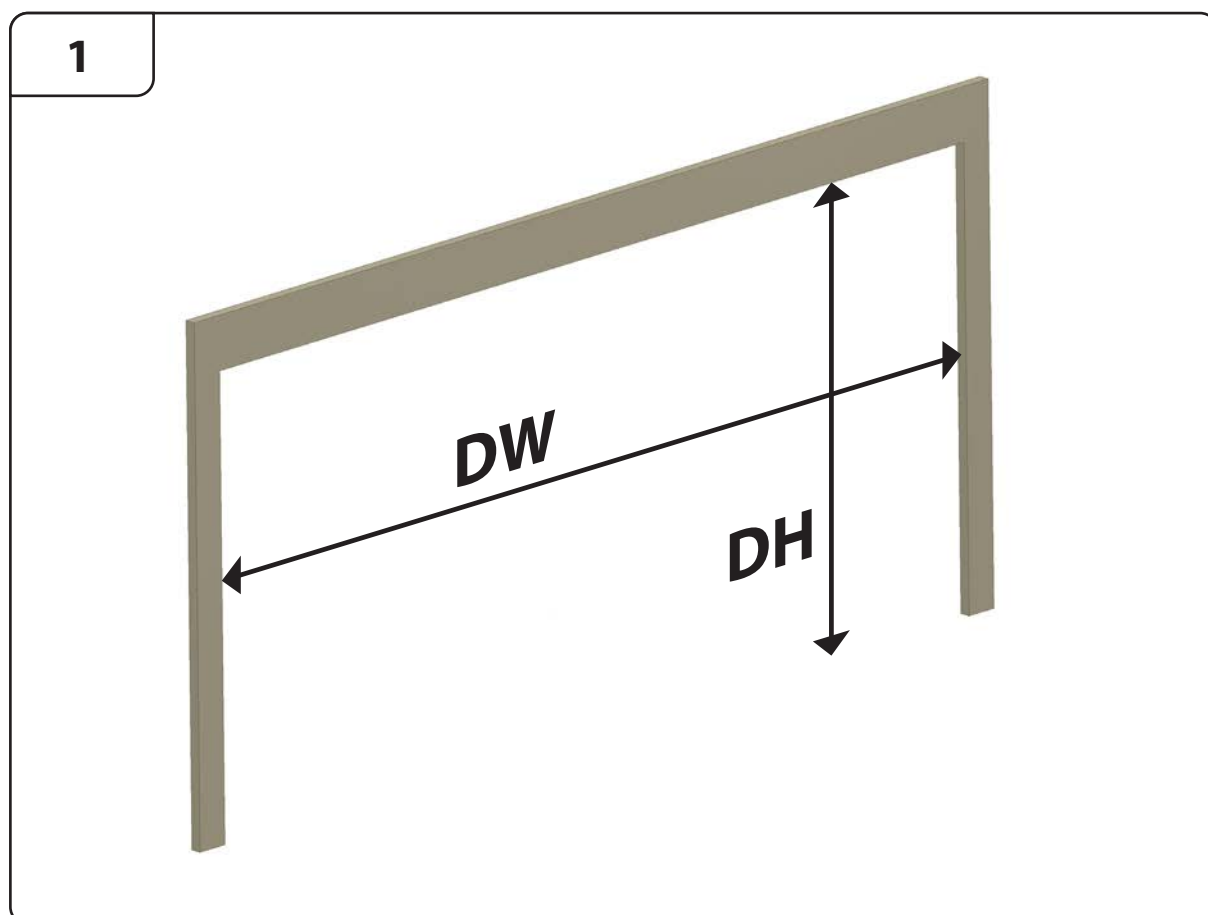
- Based on > 15.000 cycles
- Only for E-operator doors. For manually driven doors: calculate with separate DOCO Spring Calculator
- In case door weight is not available, calculate with DOCO Spring Calculator

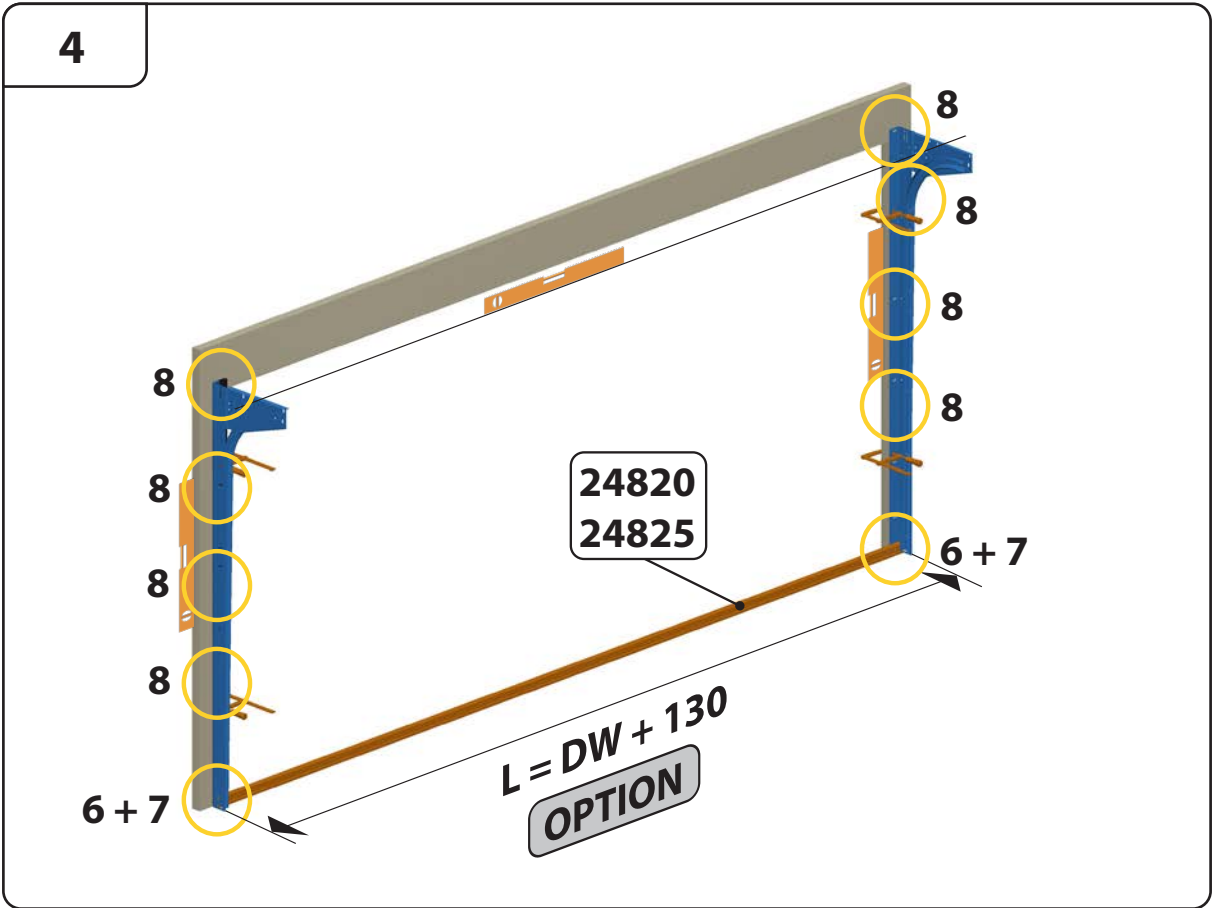
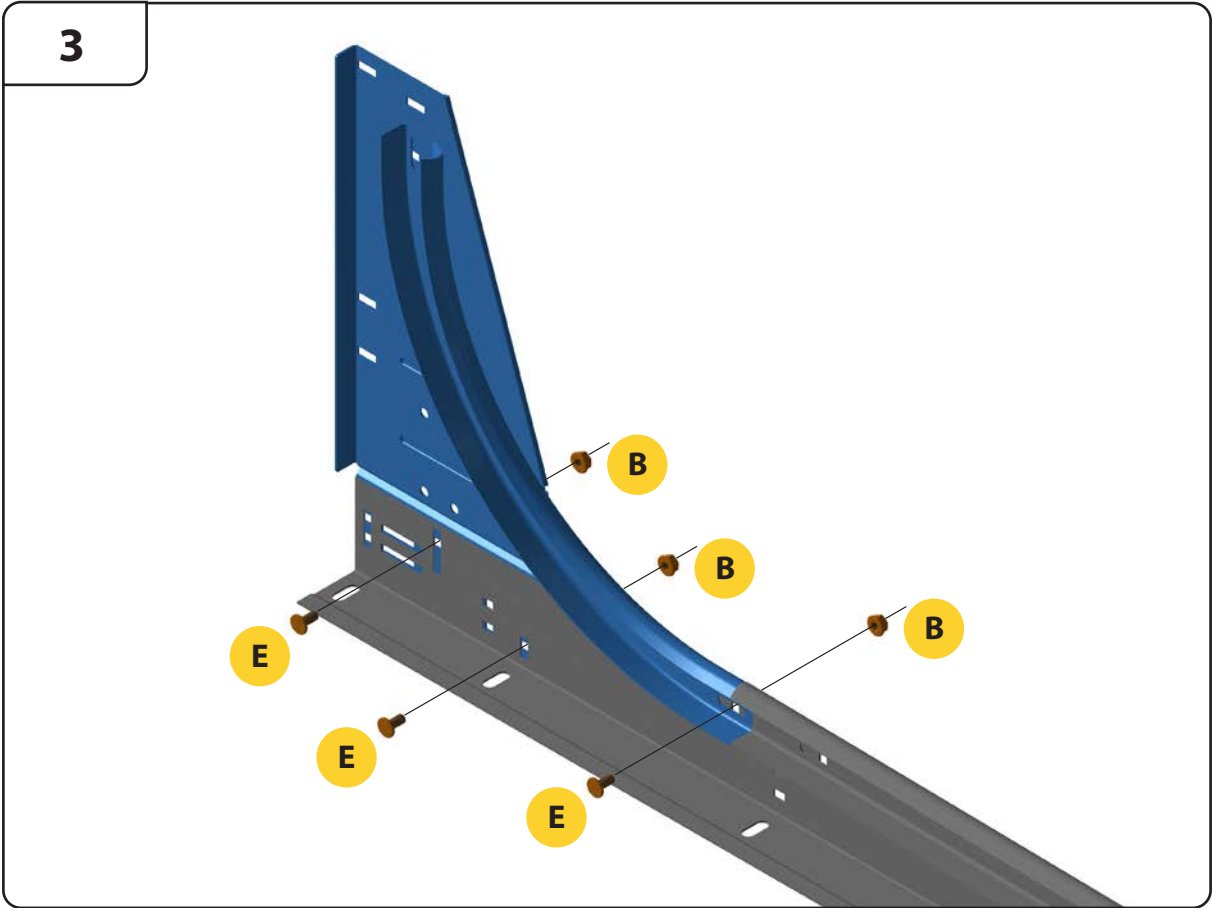
7.3 Fasteners and tools

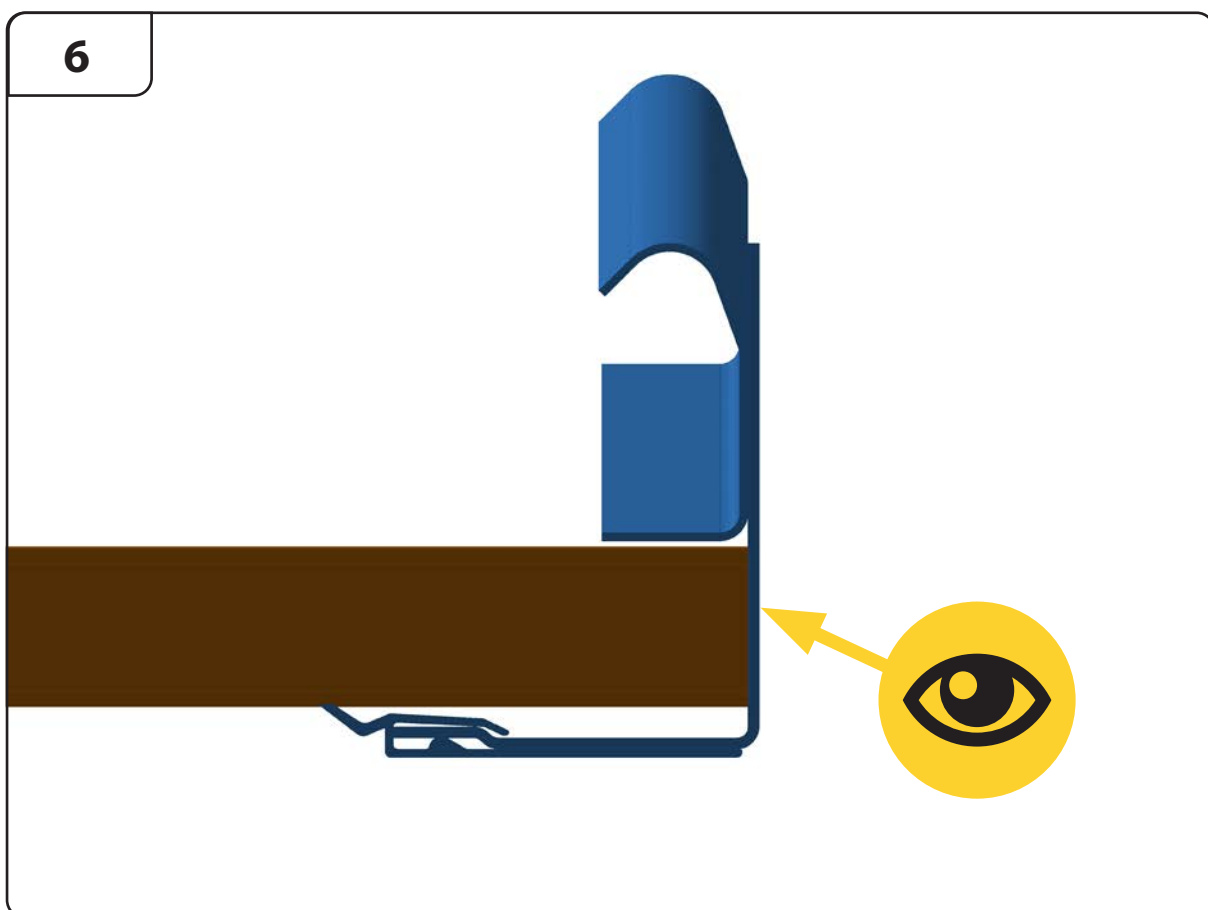
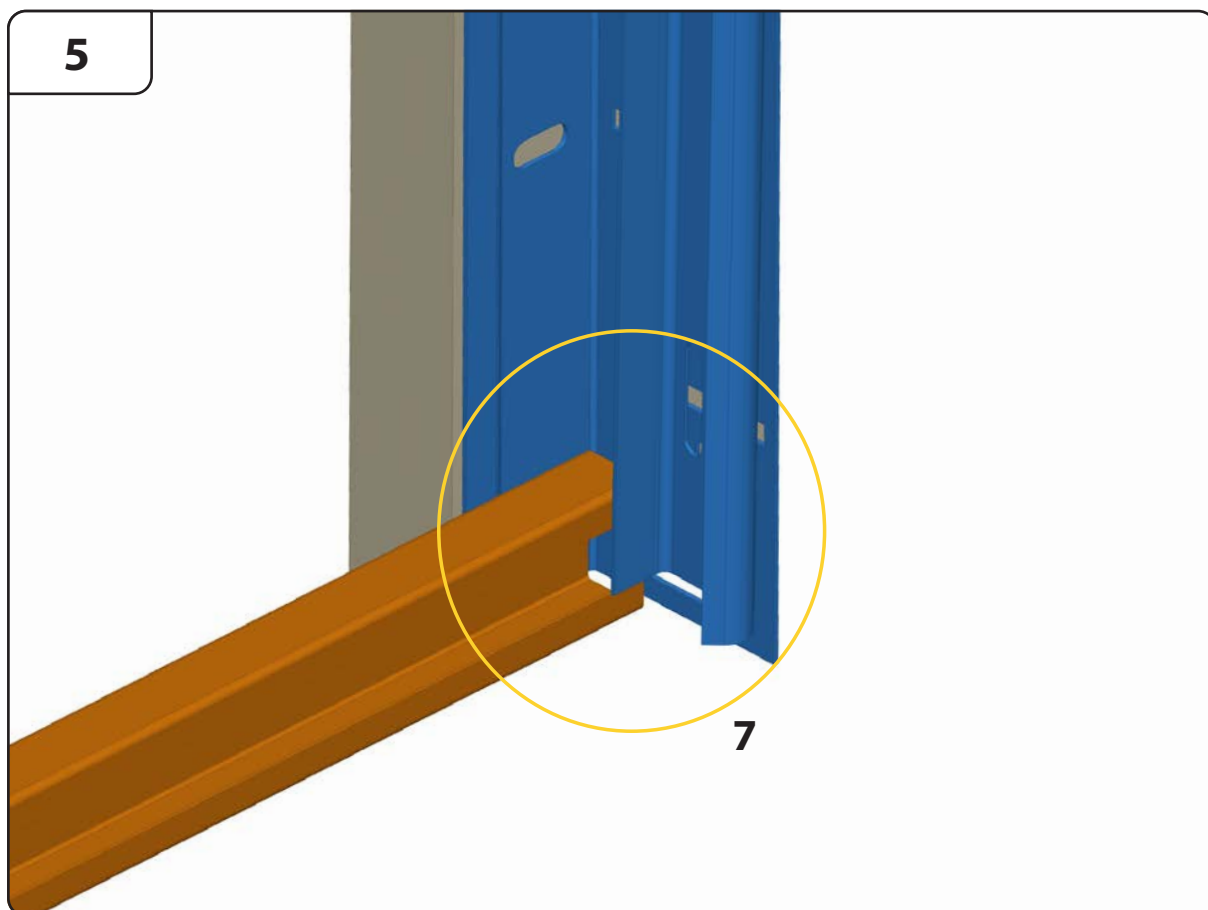


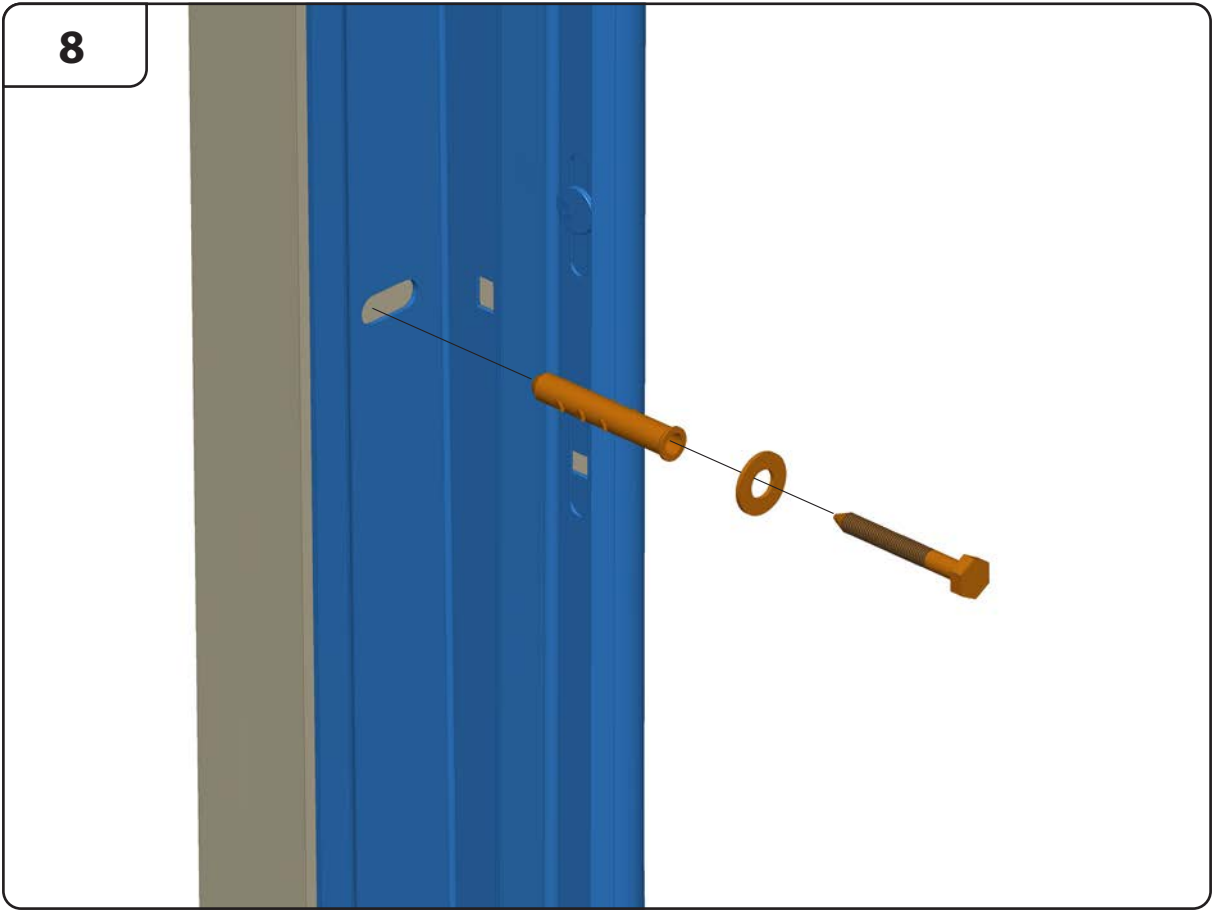
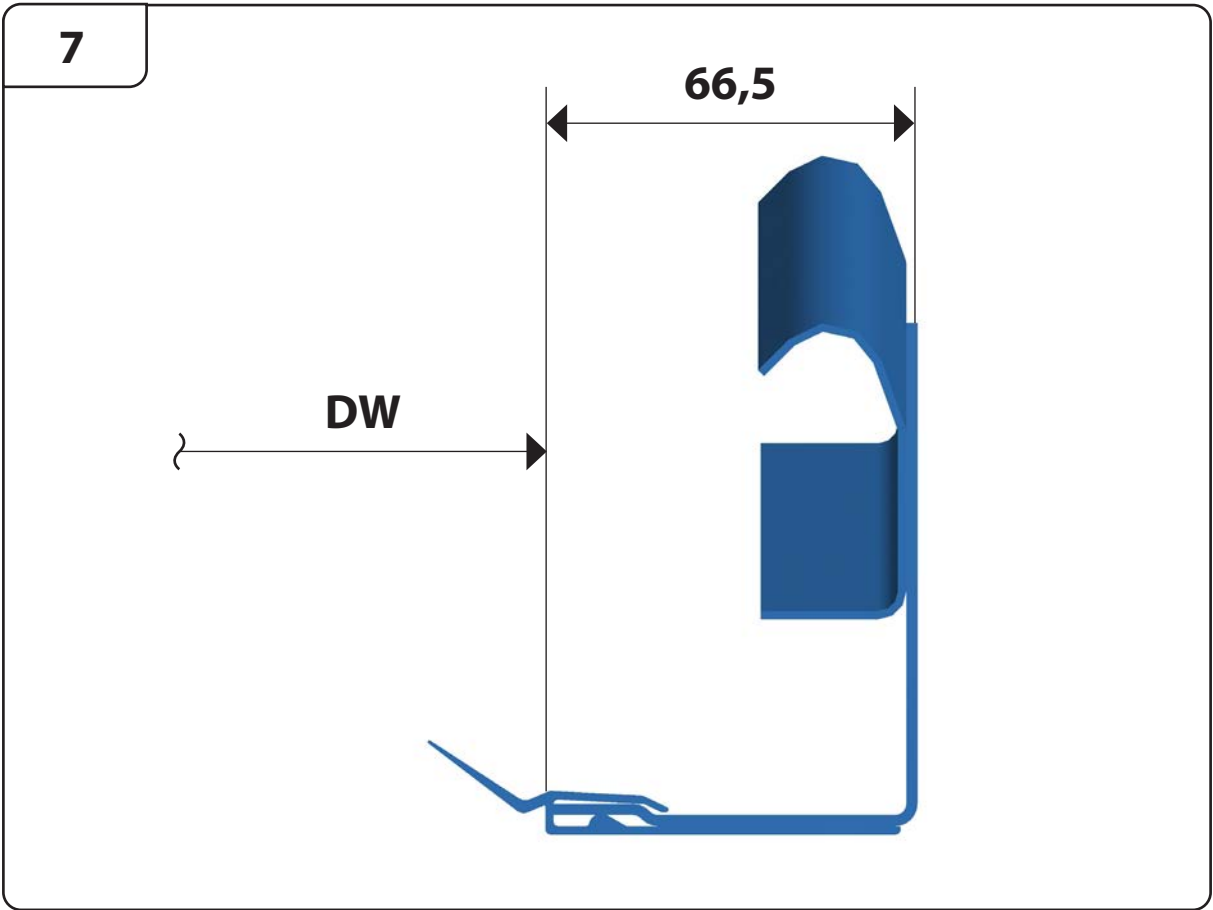
A	14023 M8 x 17		
B	14022 M8 13/25 Nm		
C	14028 PH2 St 4,2 x 19		
D	Ø 6,3 10 Nm 14020 L=16 150002 L=25 14017 L=35		
E	14024 M8 x 10,5		

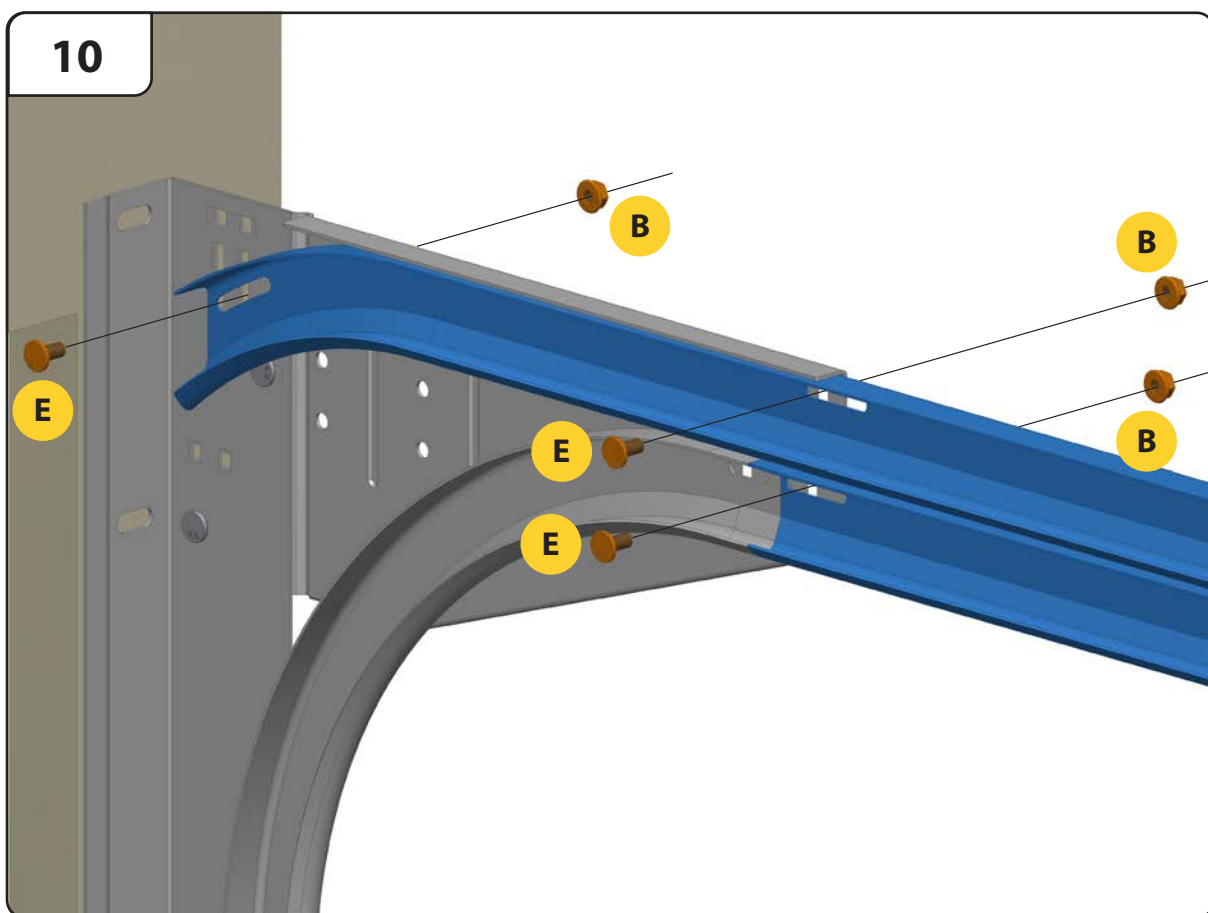
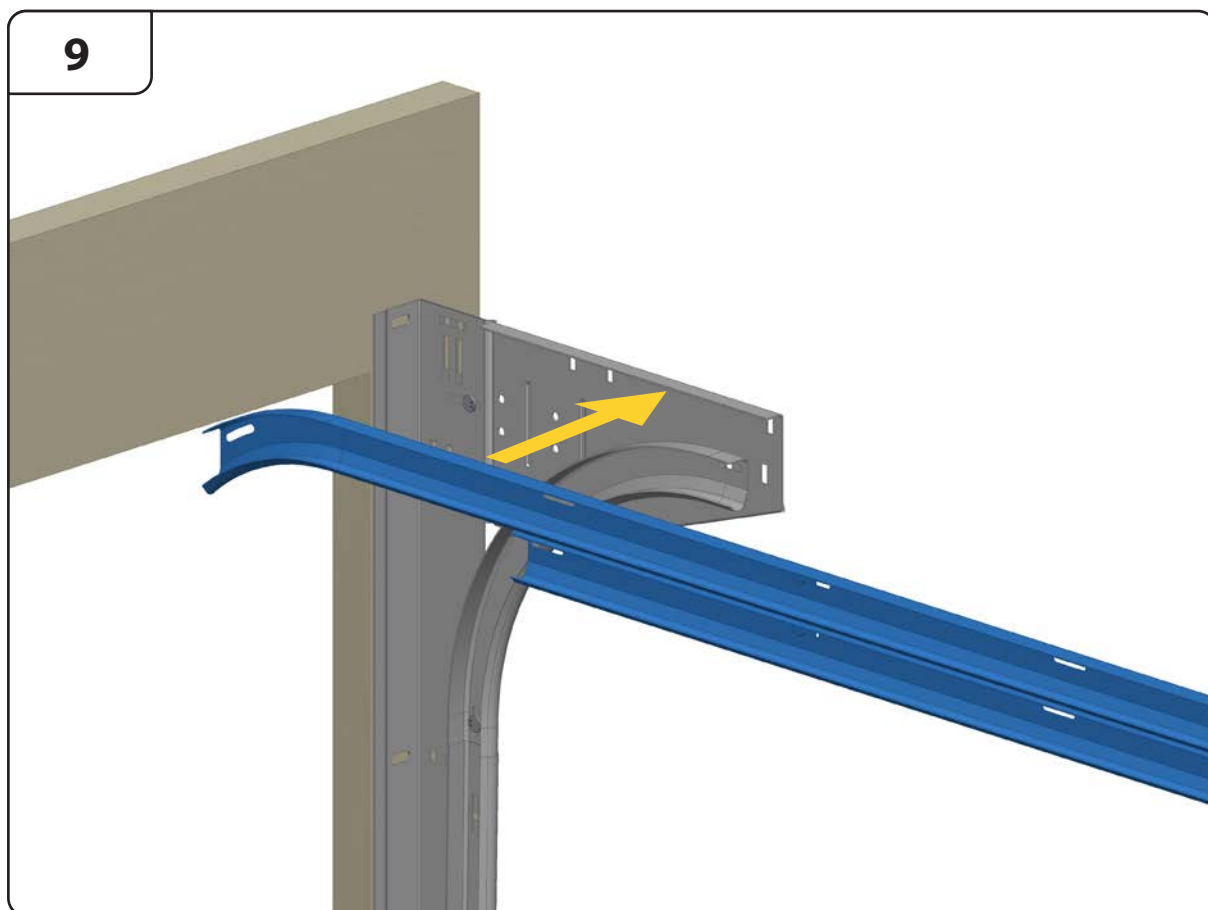
8. Assembly



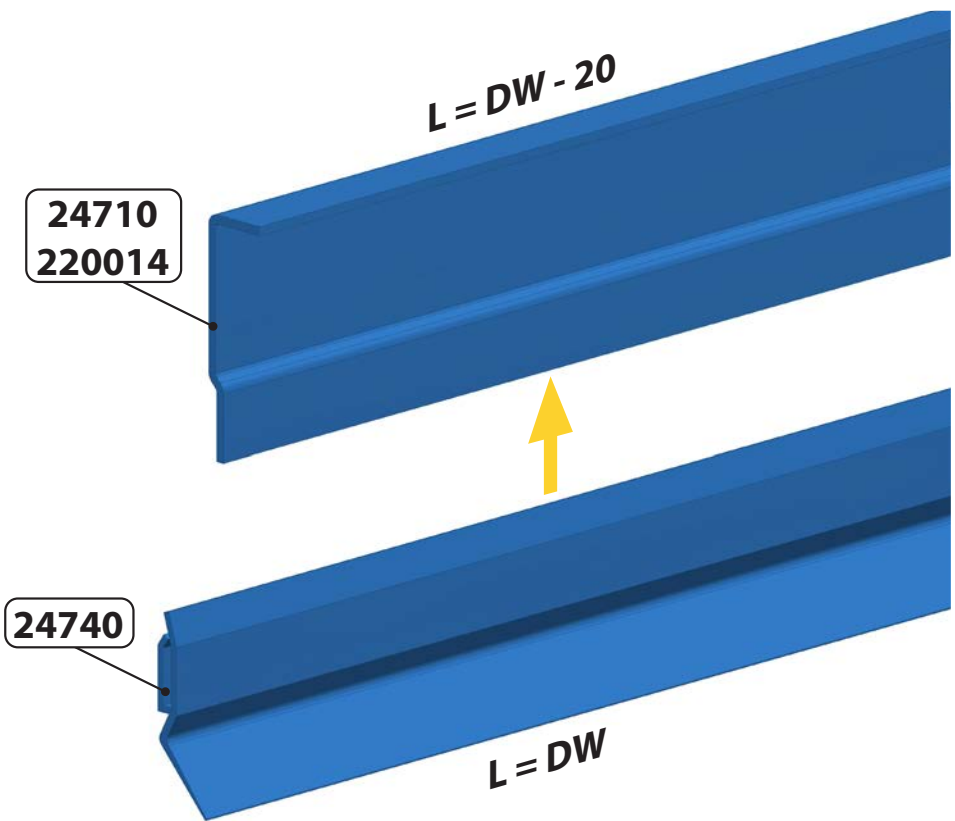




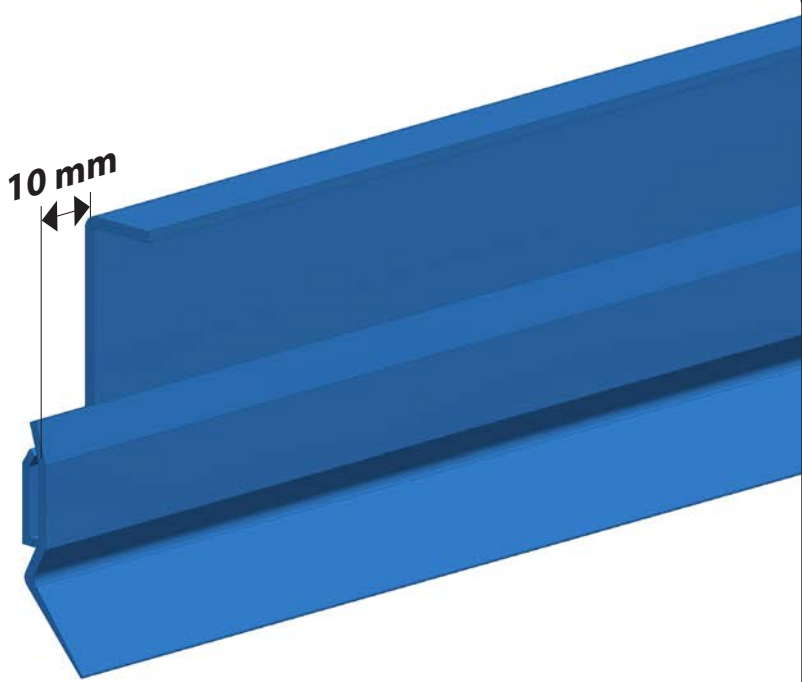




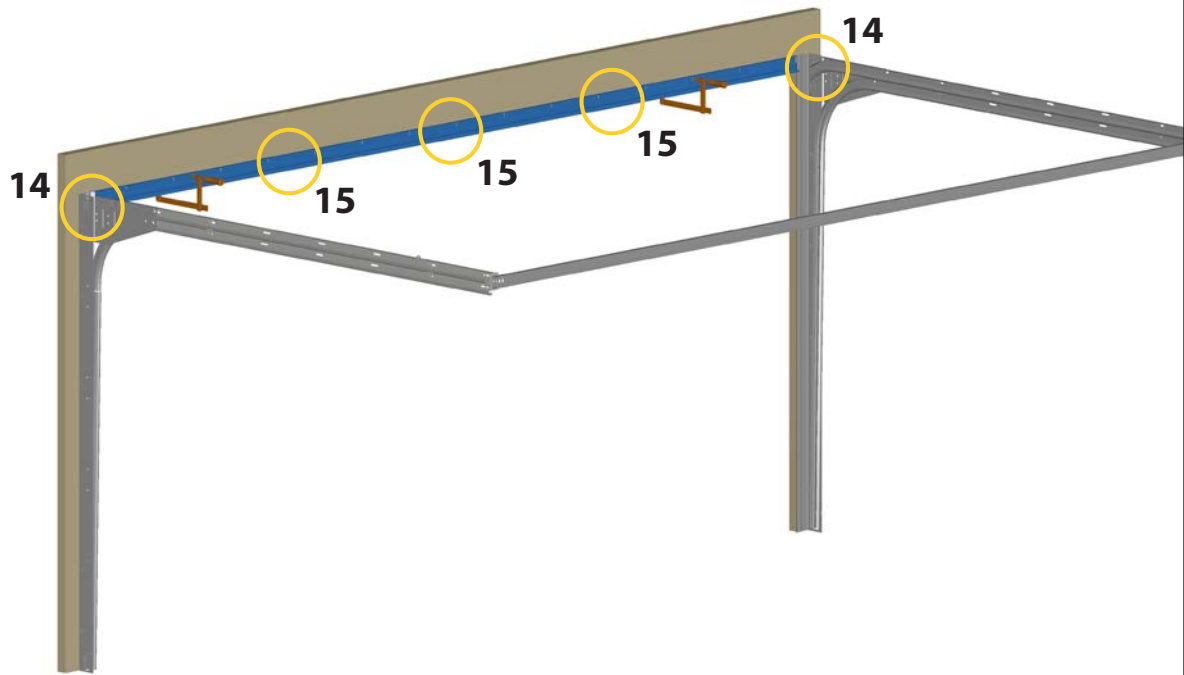
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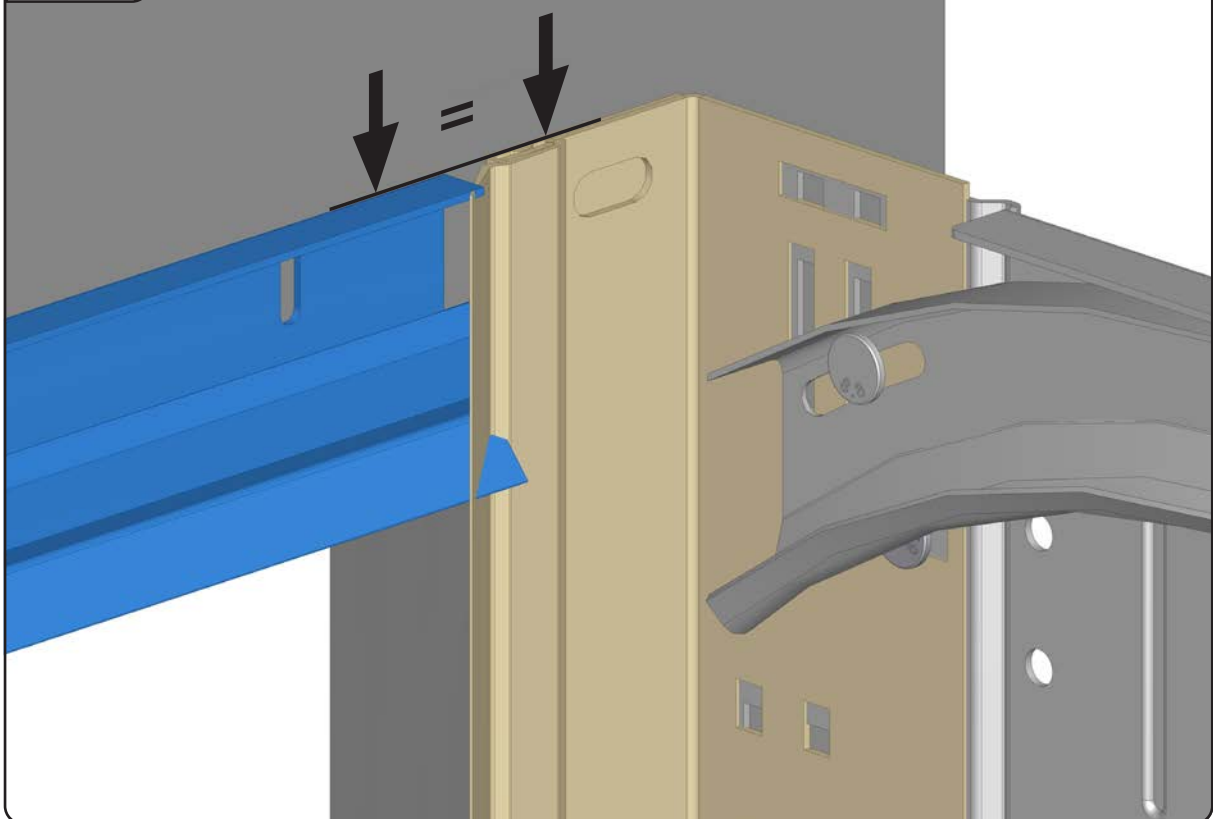
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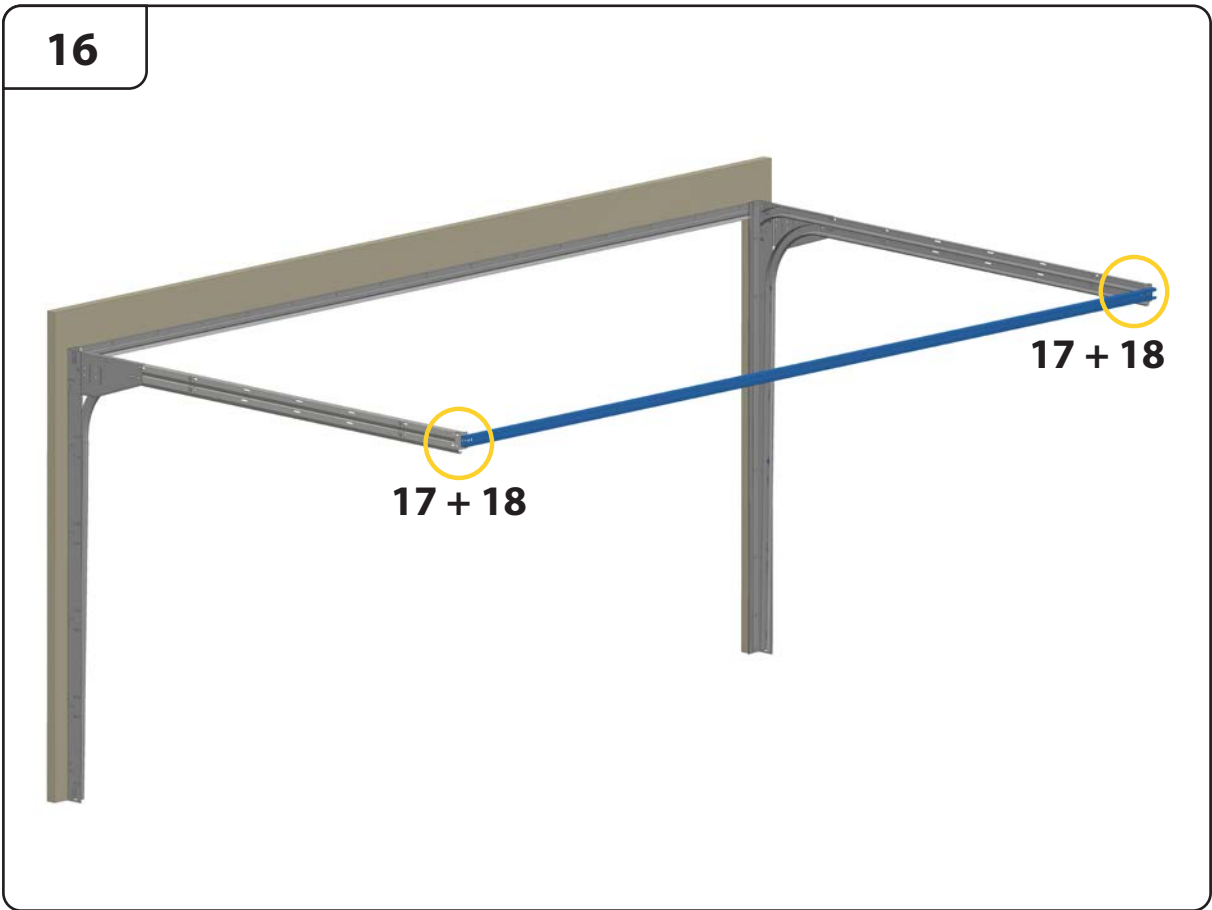
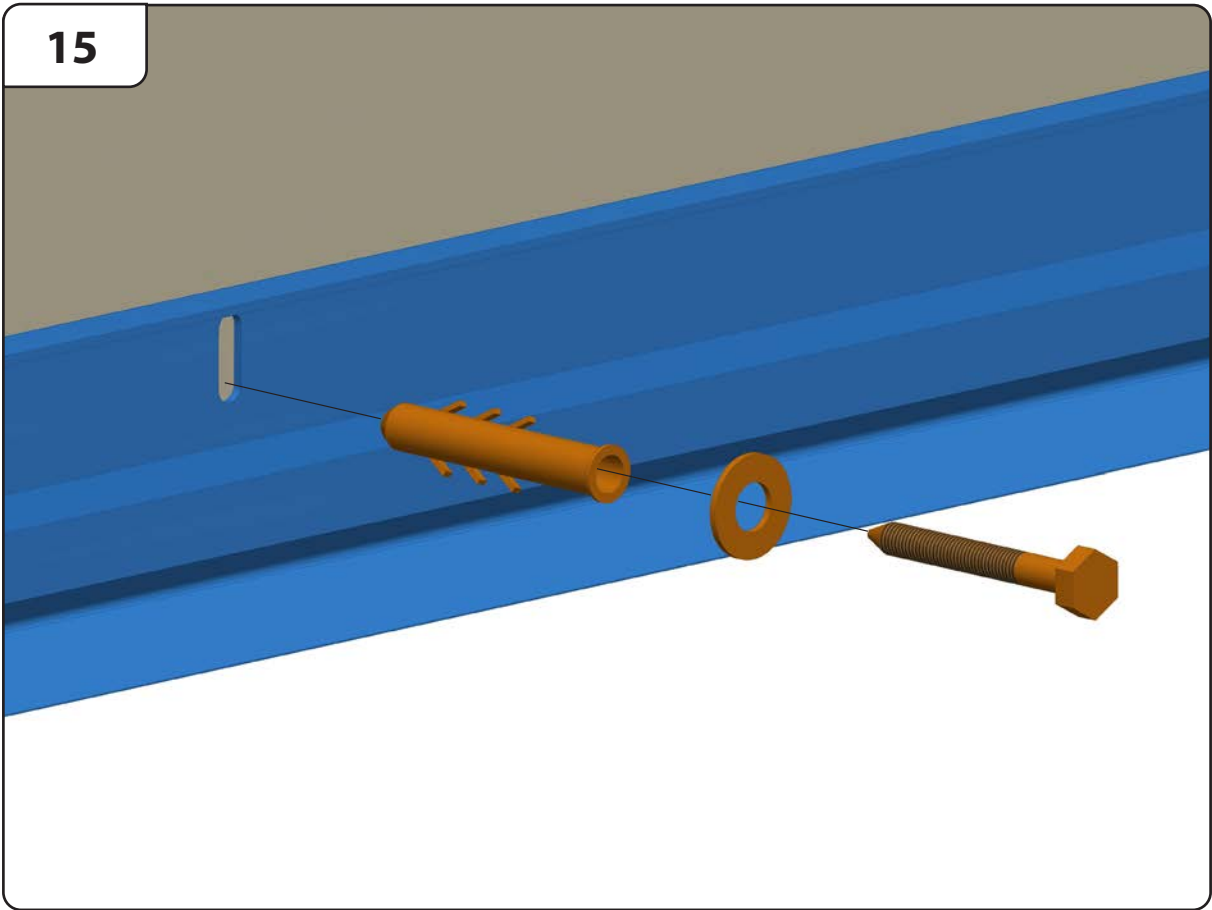


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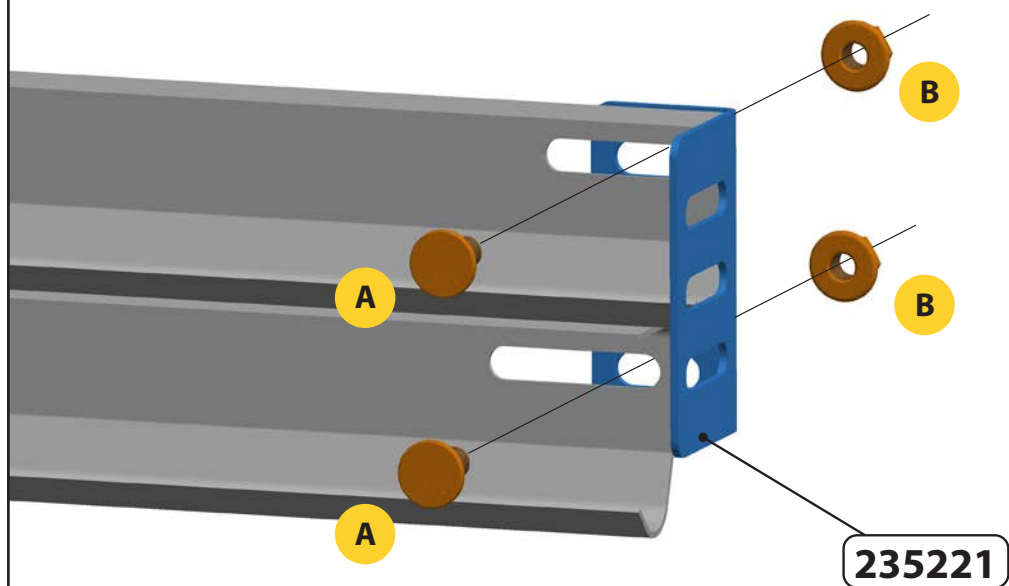


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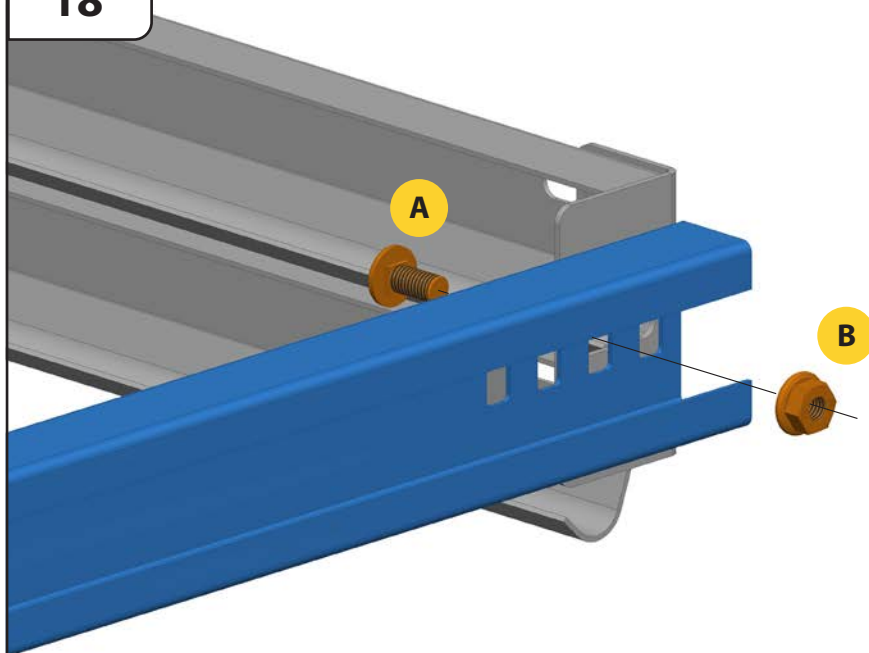


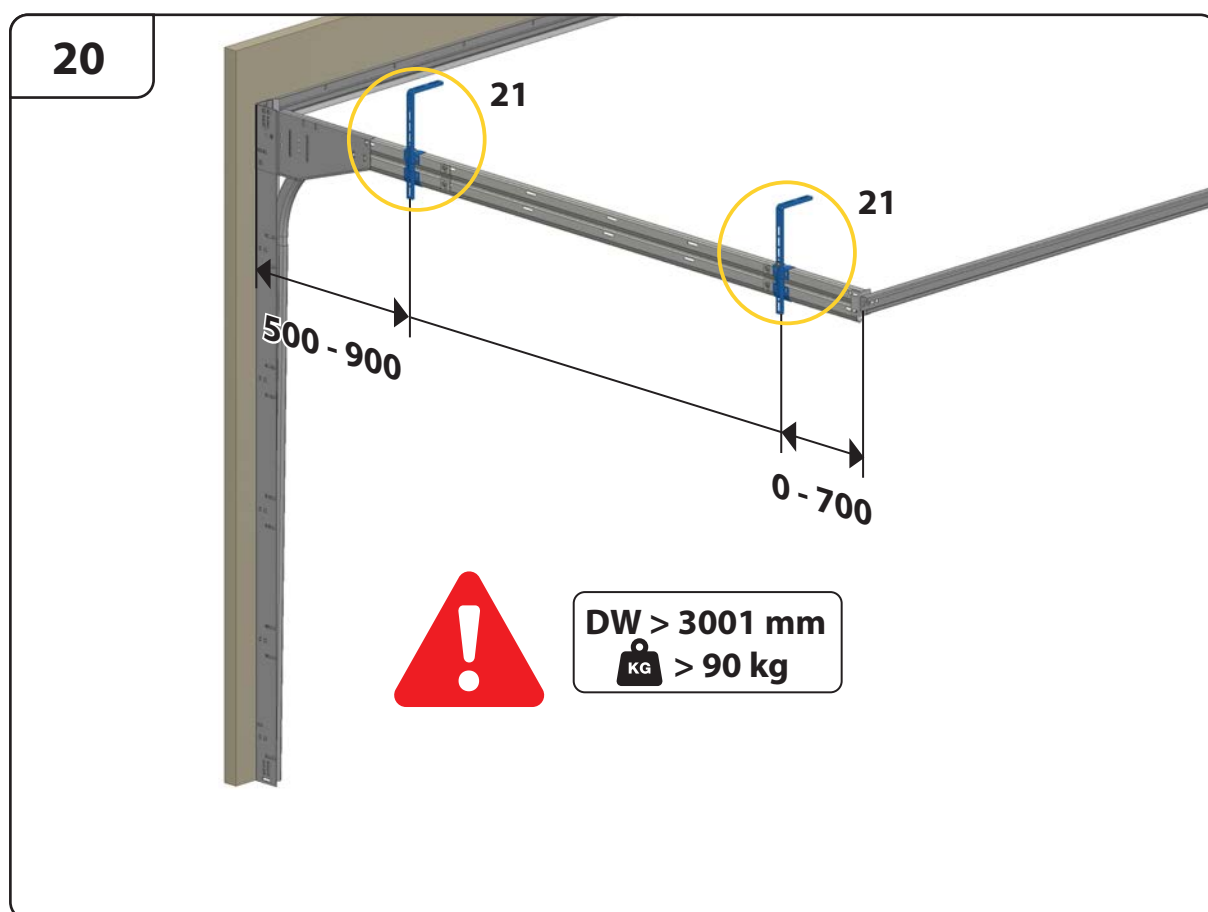
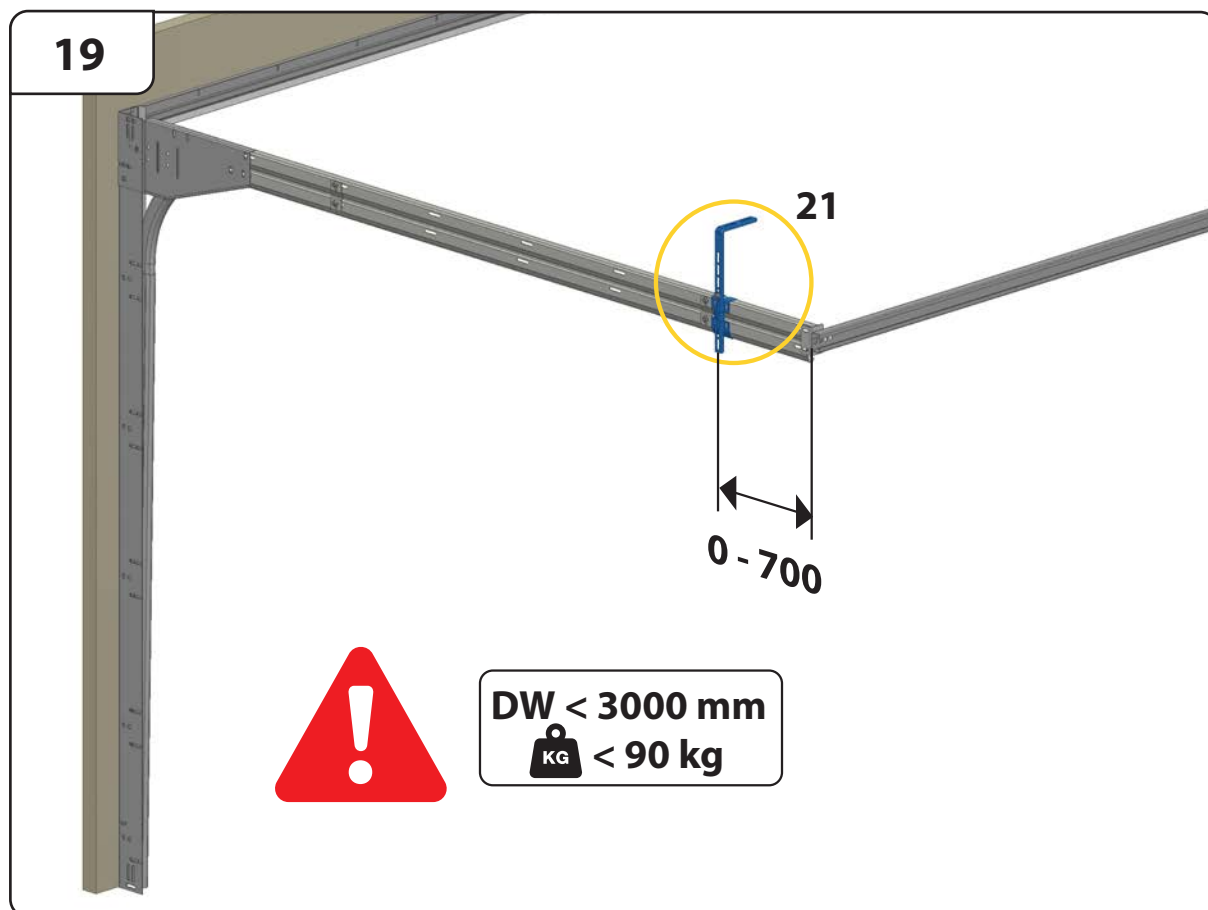


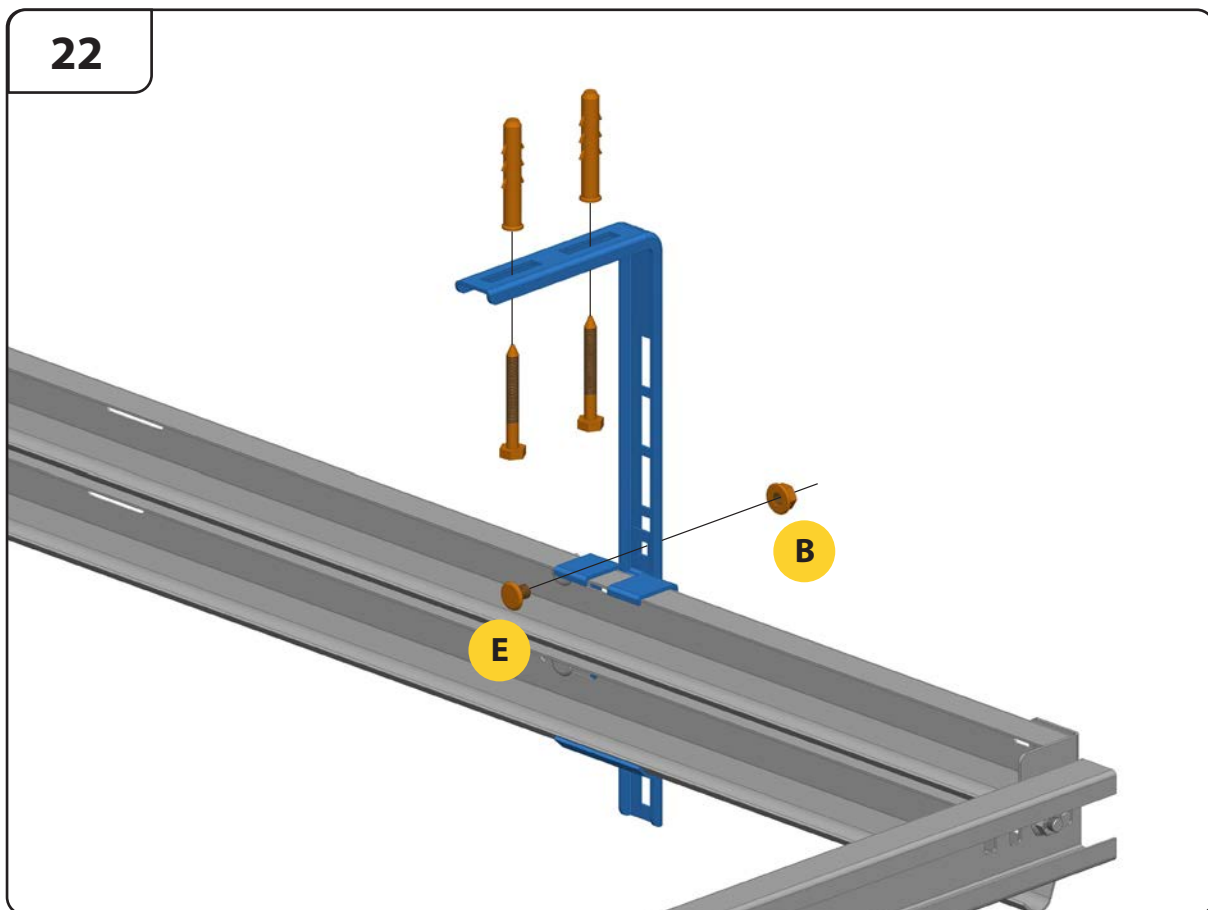
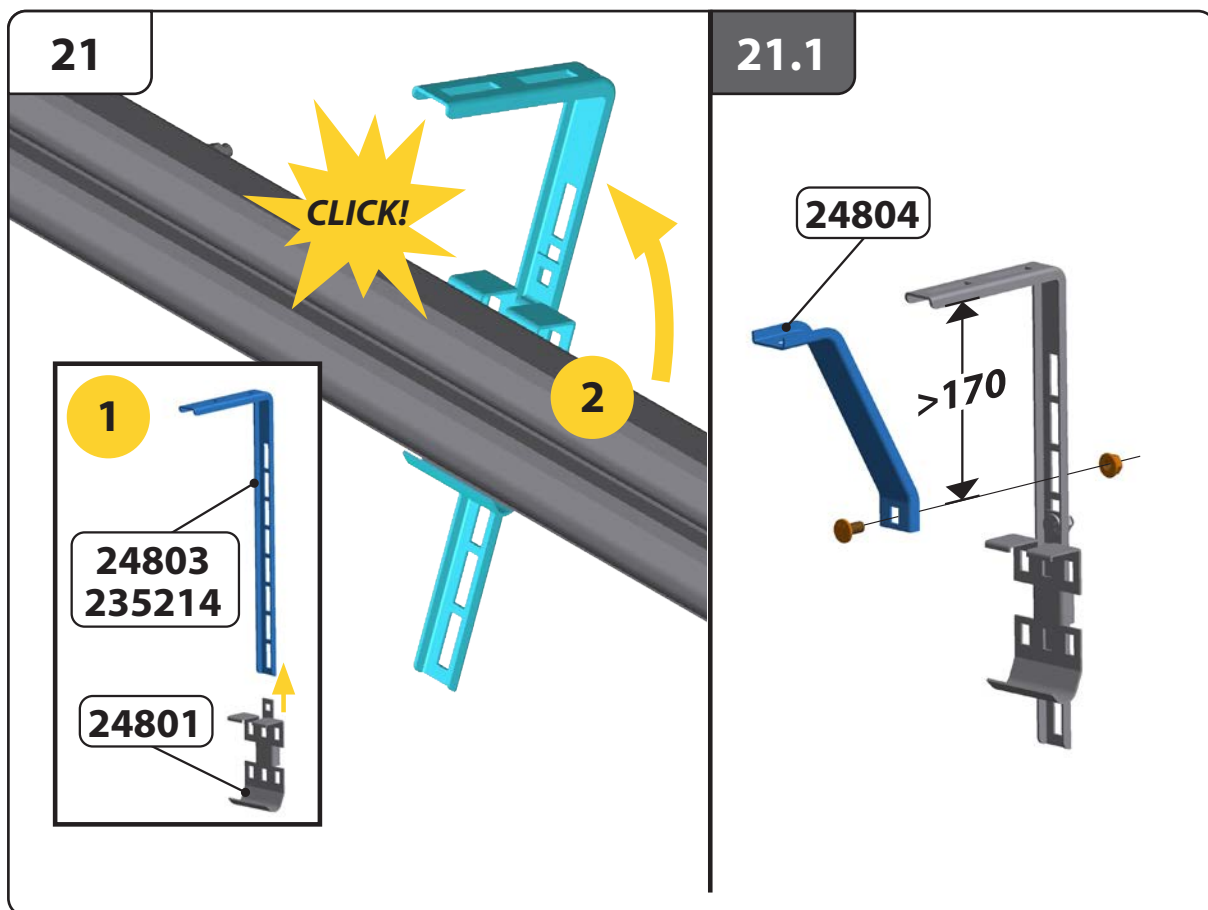
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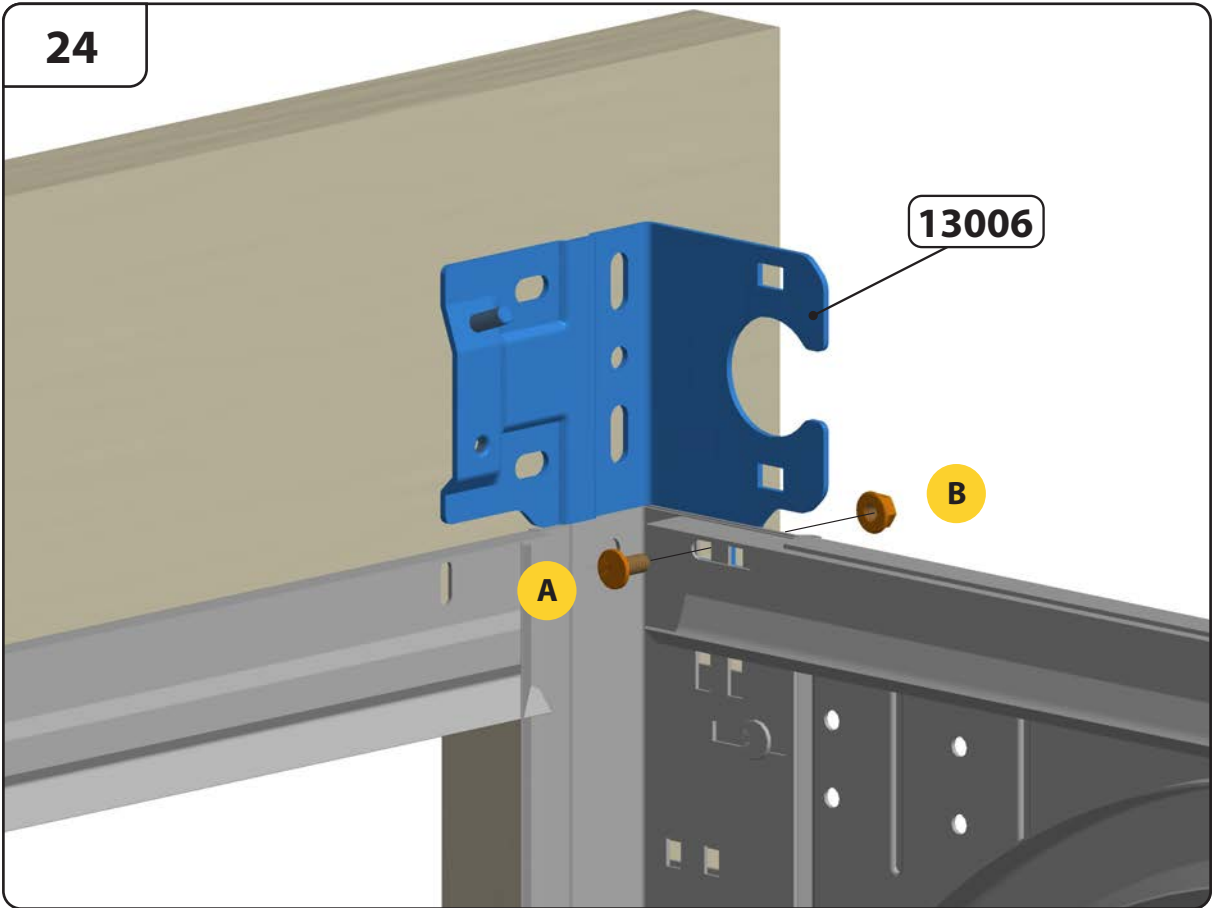
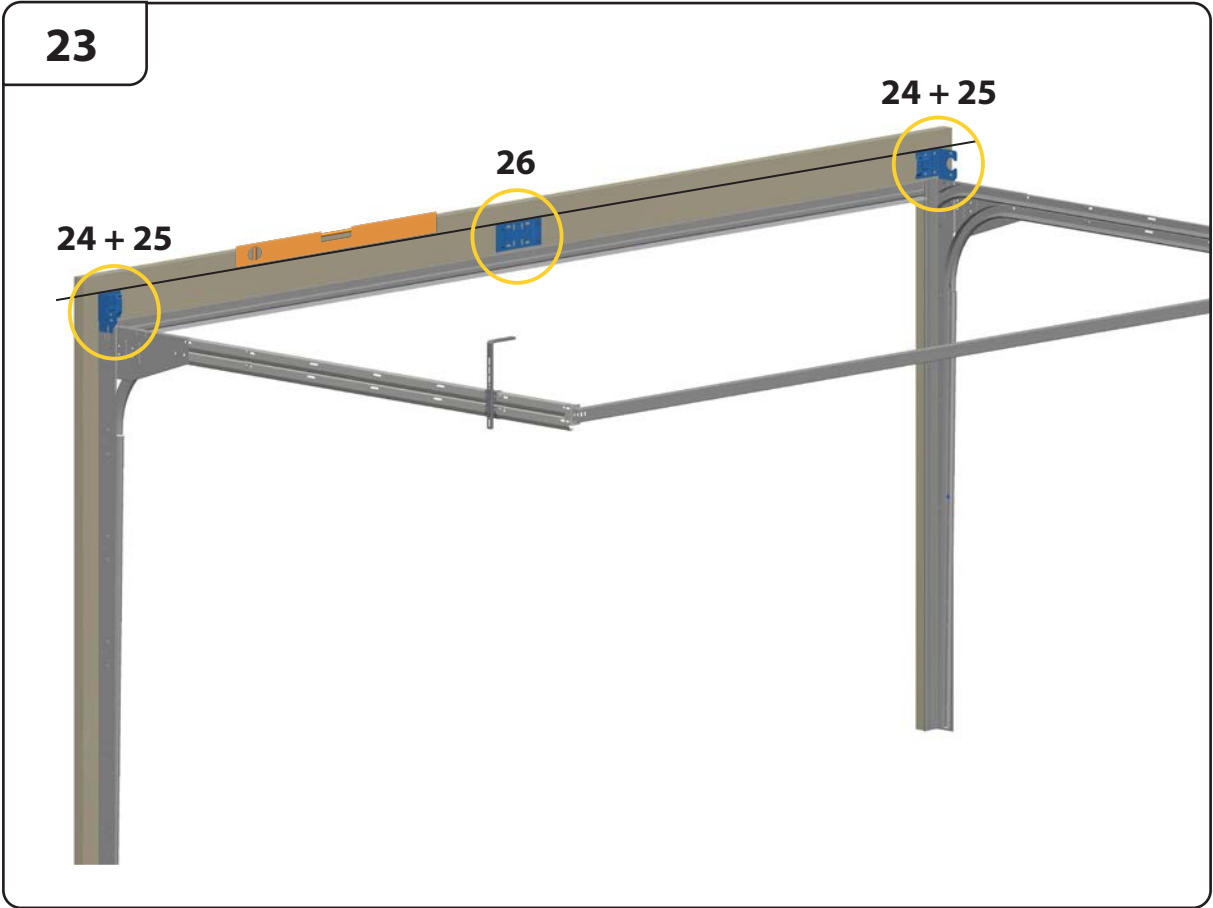


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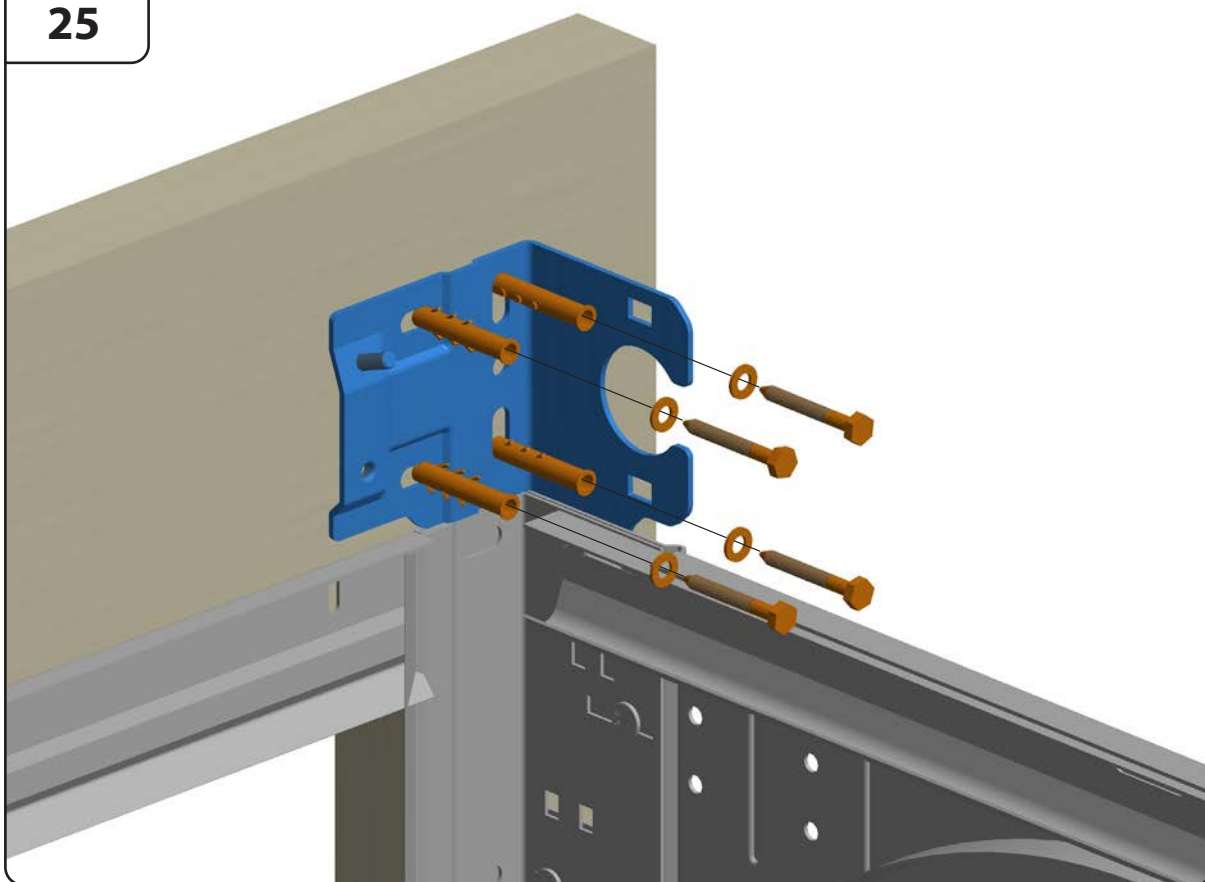




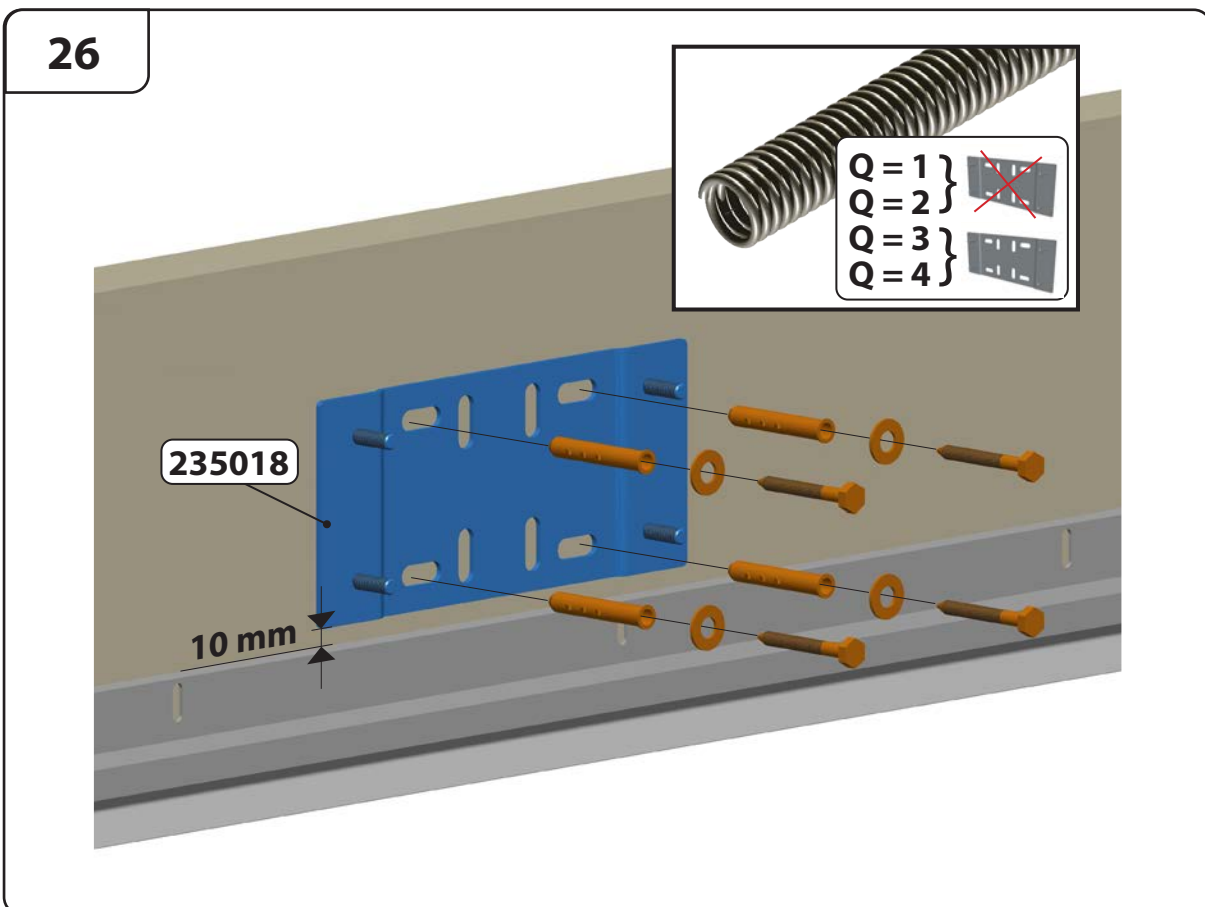




25



26



27

DH ≤ 2400
≤ 165 kg
Cable = Ø 3 mm

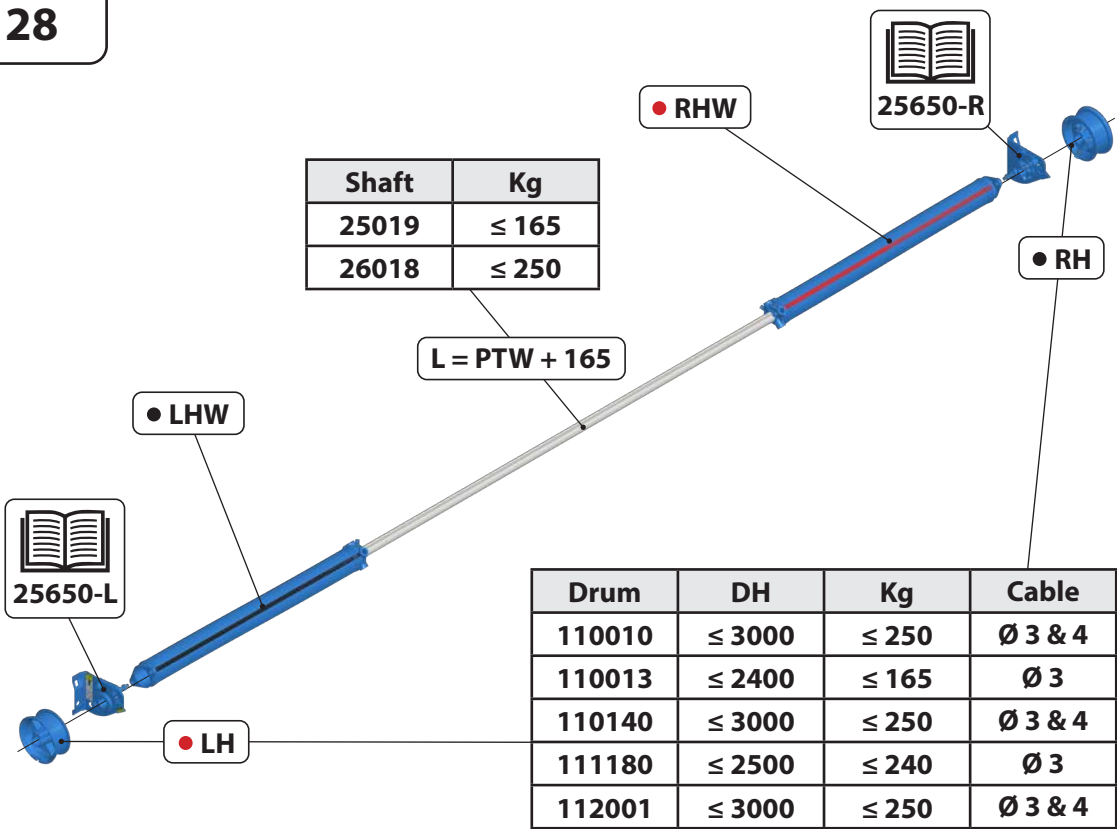
110010
110013
110140
112001



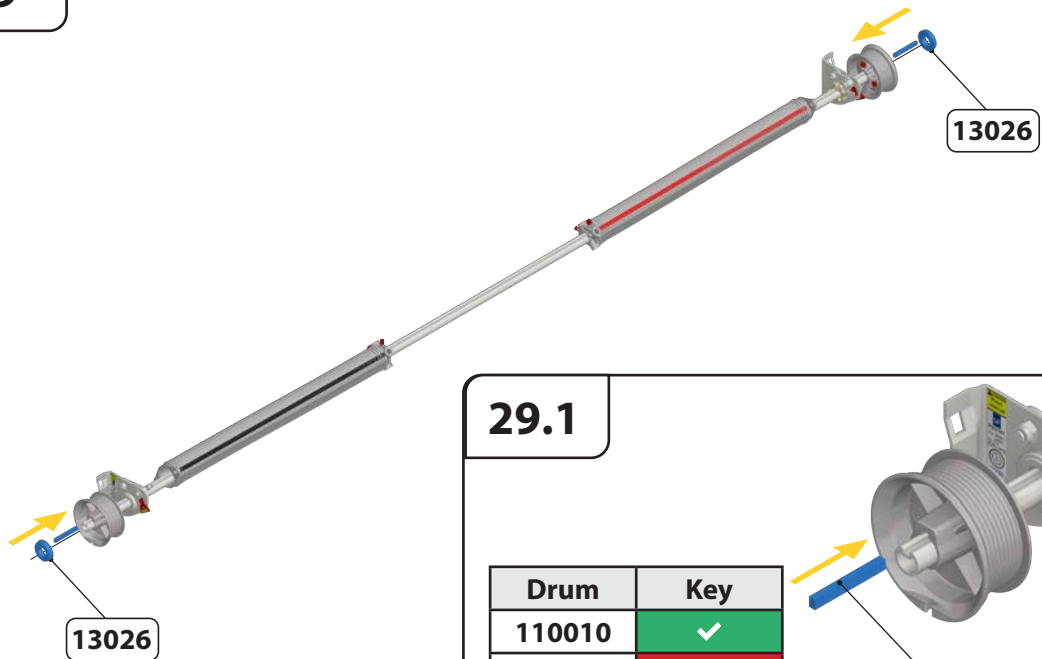
DH > 2401 - ≤ 3000
≤ 295 kg
Cable = Ø 4 mm

110010
110140
112001

28

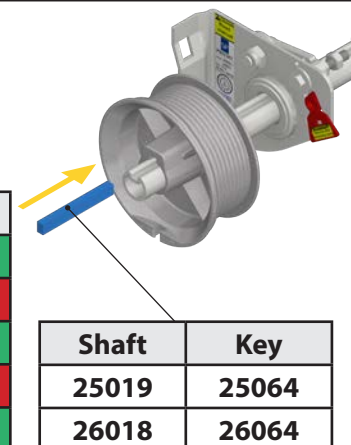


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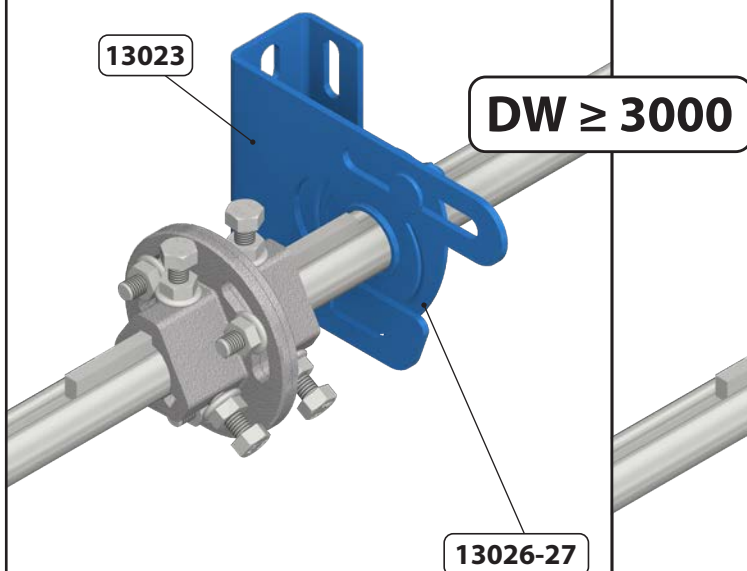
29.1

Drum	Key
110010	✓
110013	✗
110140	✓
111180	✗
112001	✓

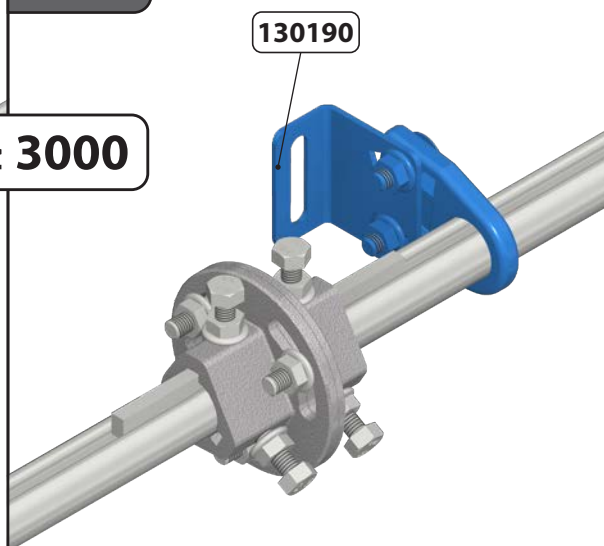


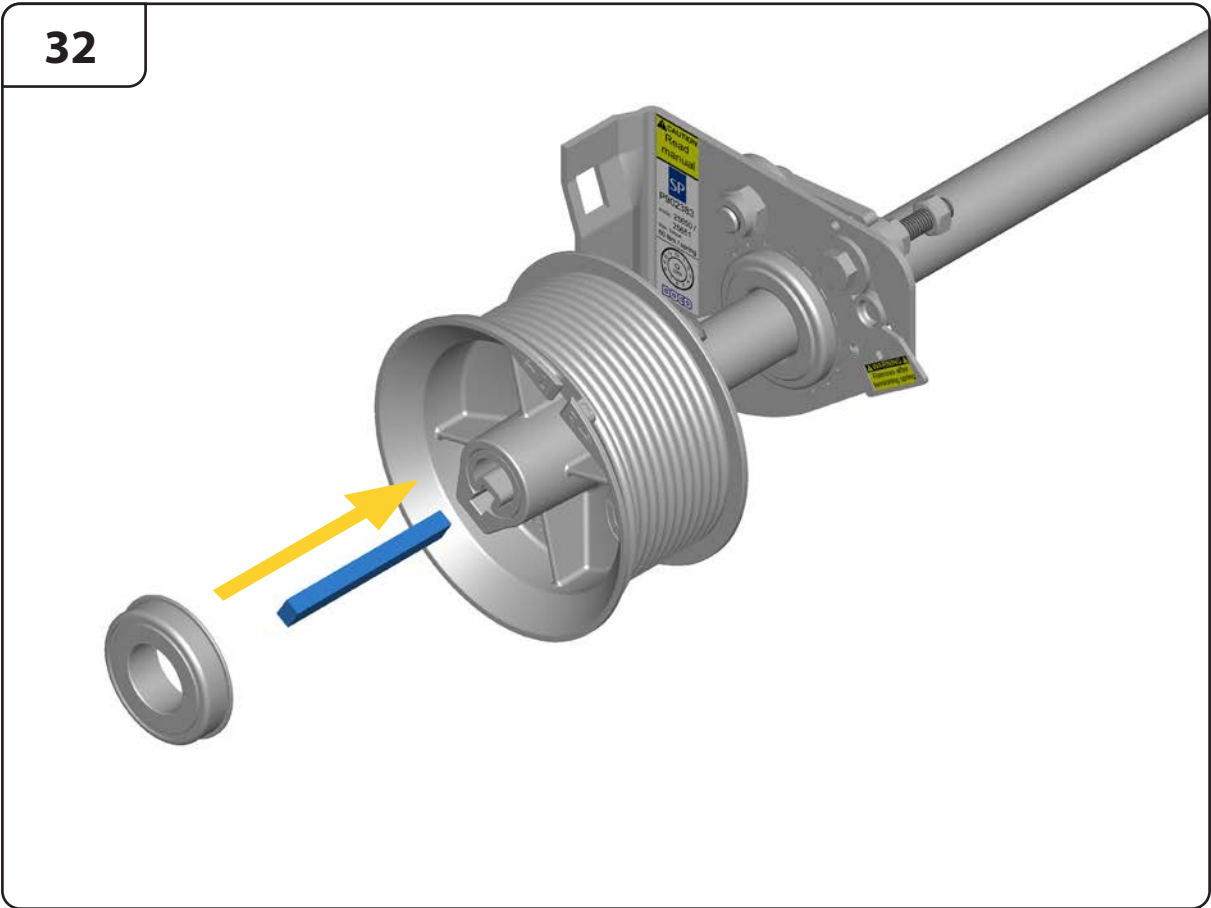
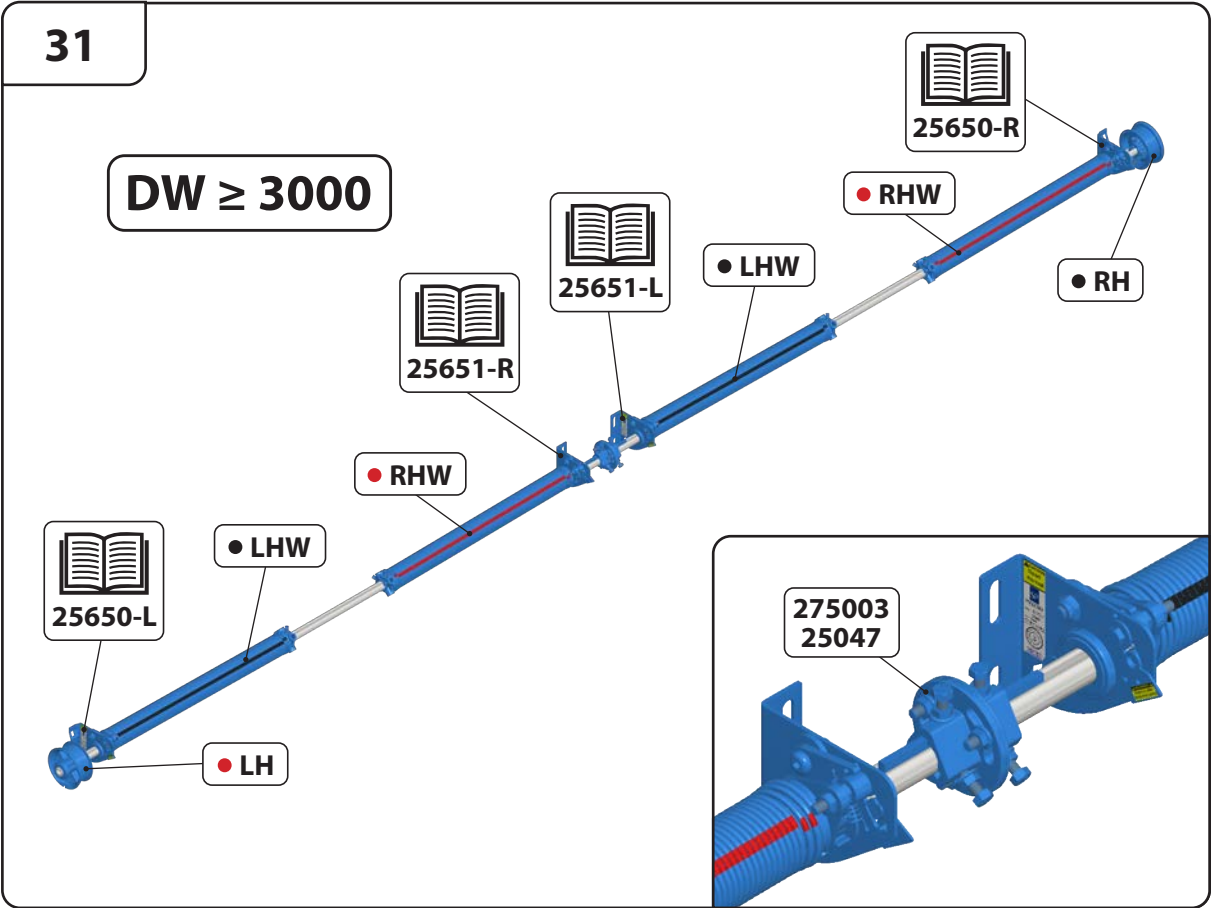
Shaft	Key
25019	25064
26018	26064

30



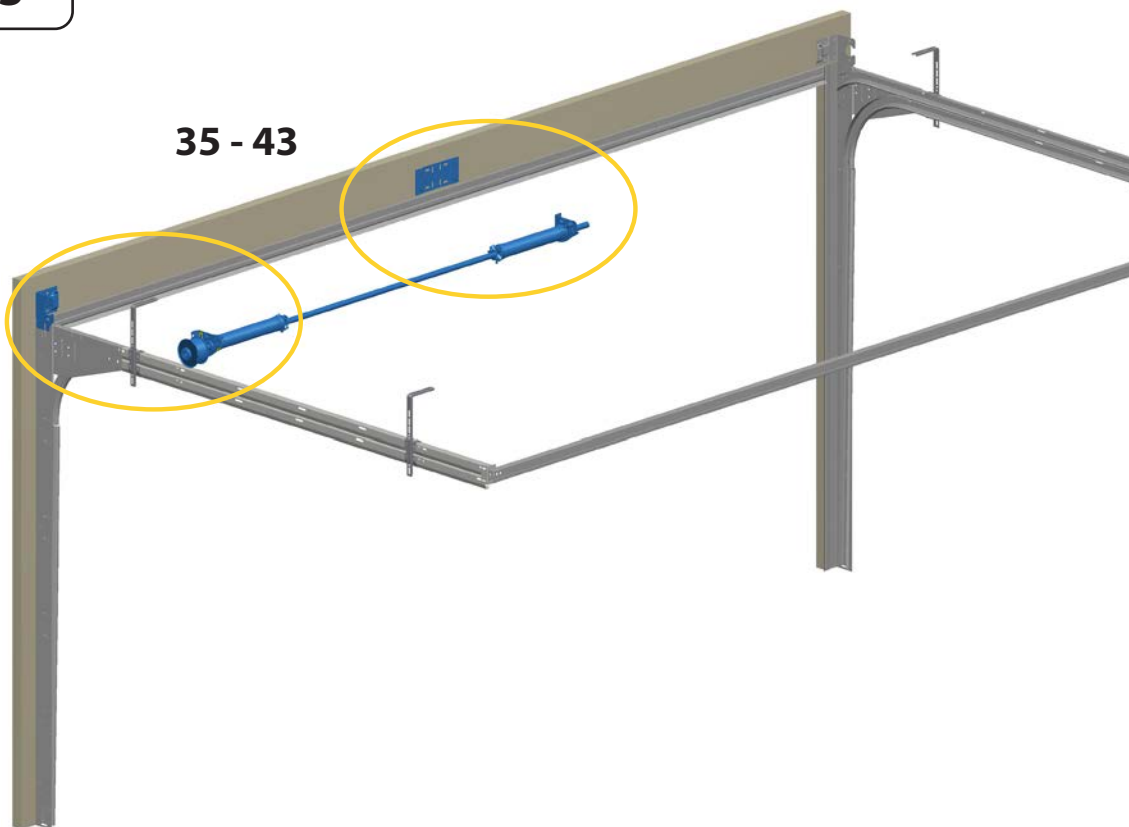
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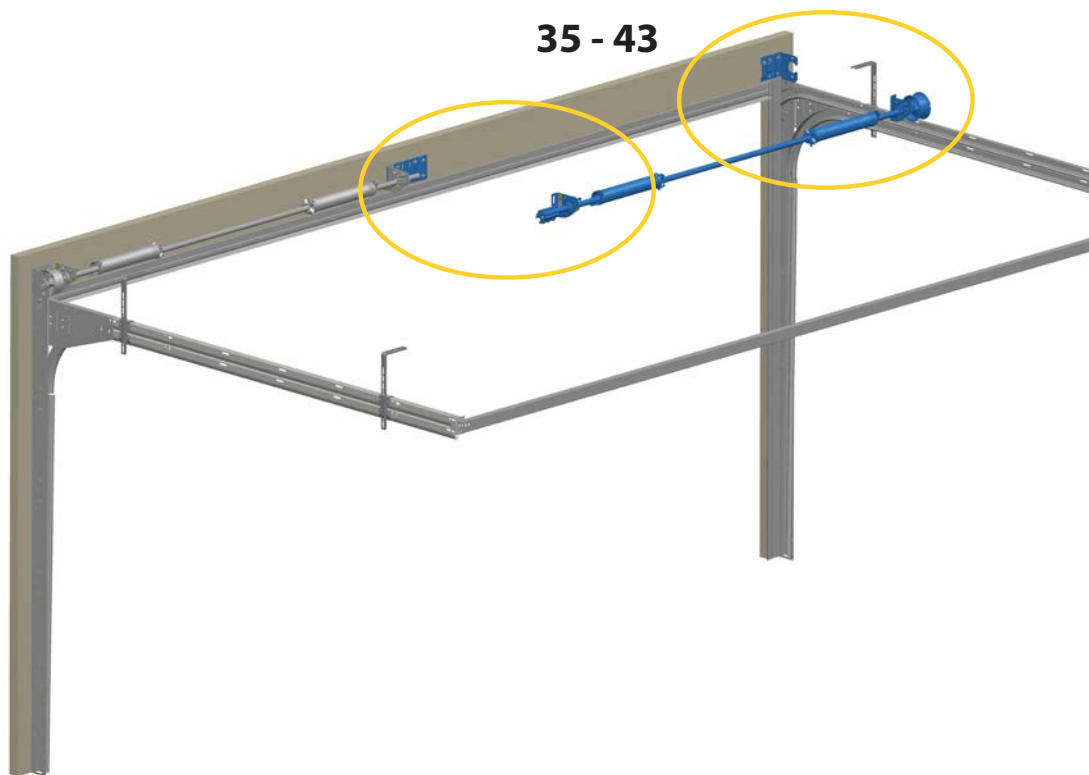
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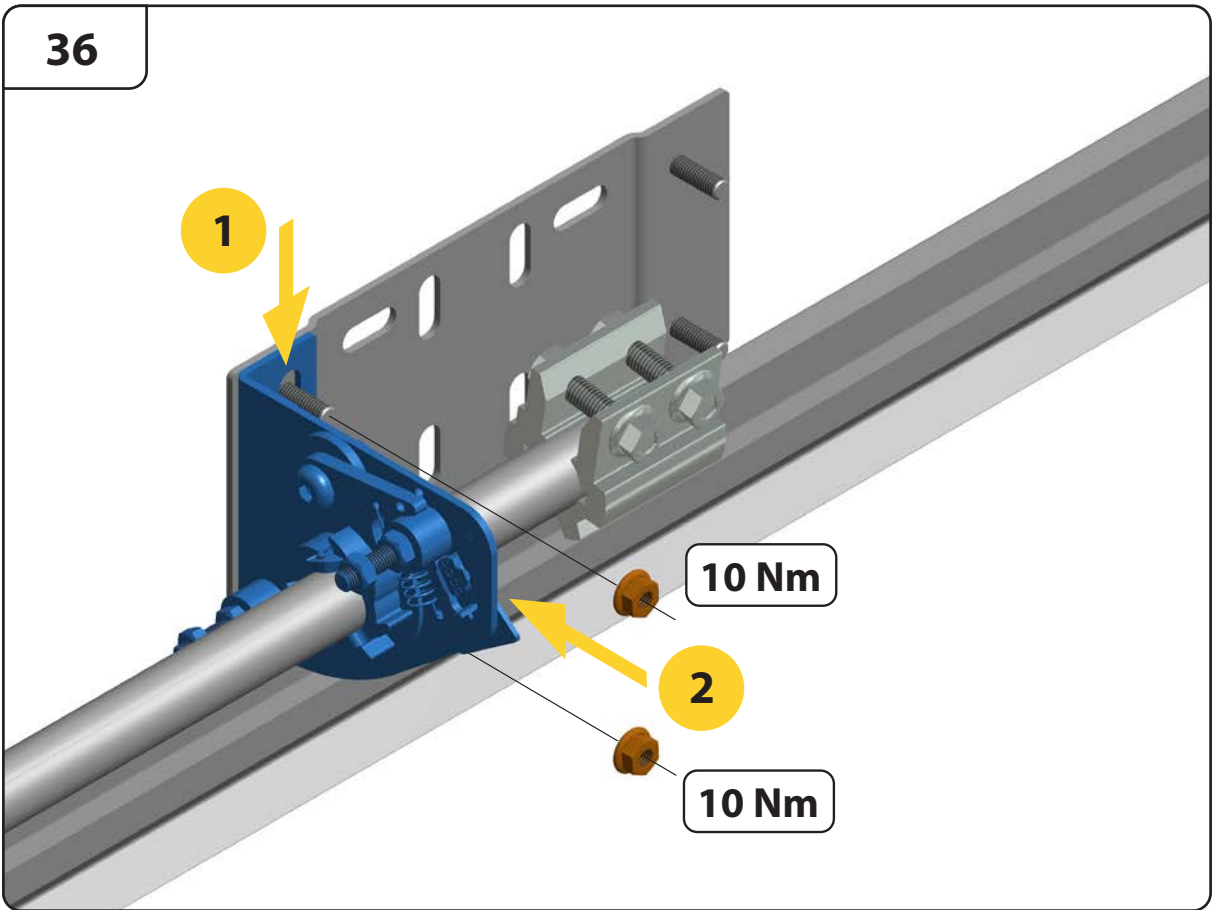
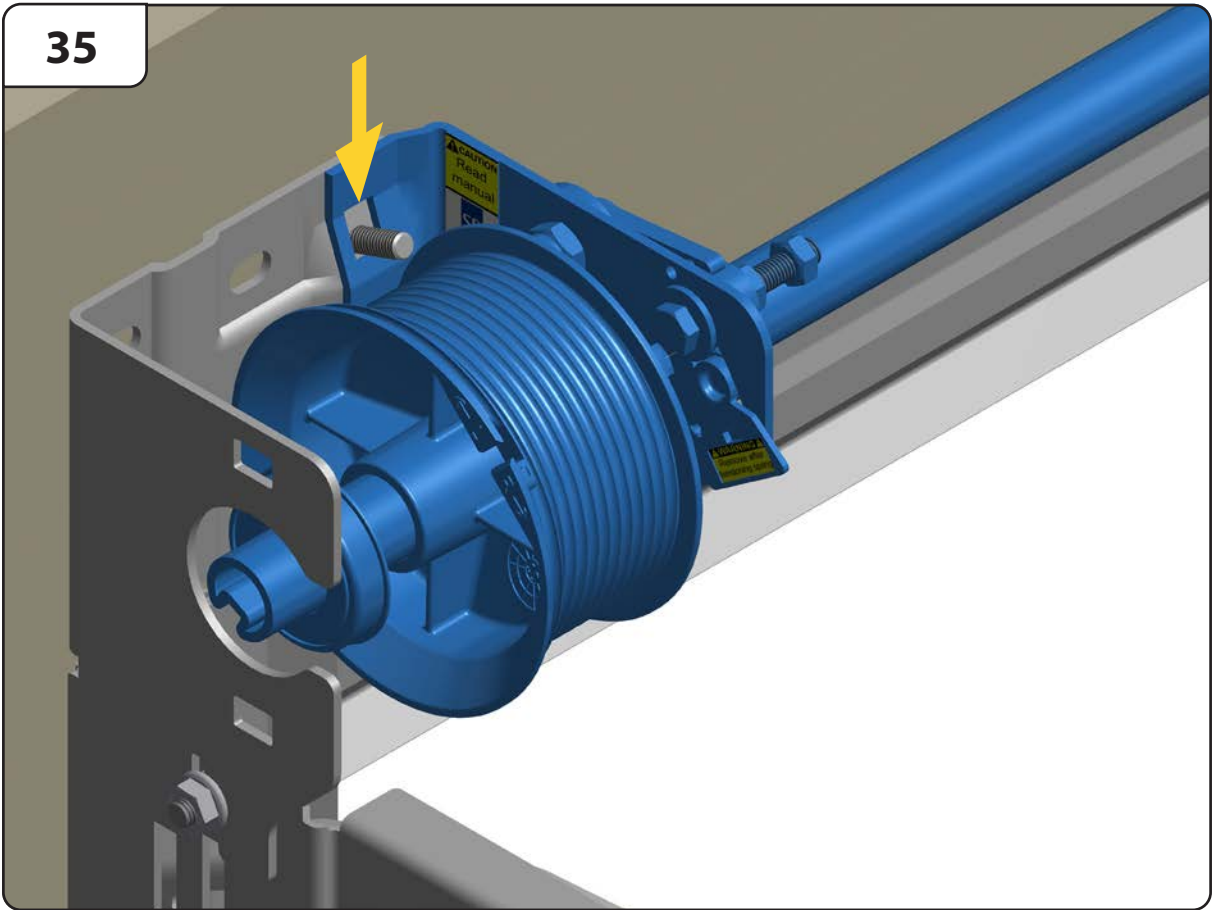
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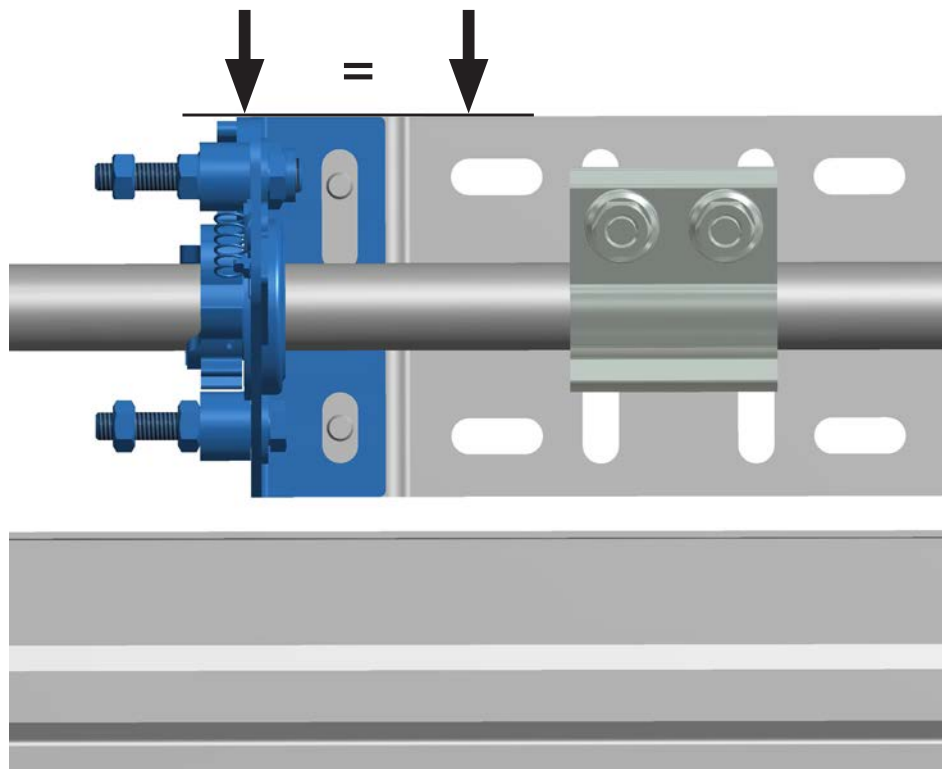
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35 - 43

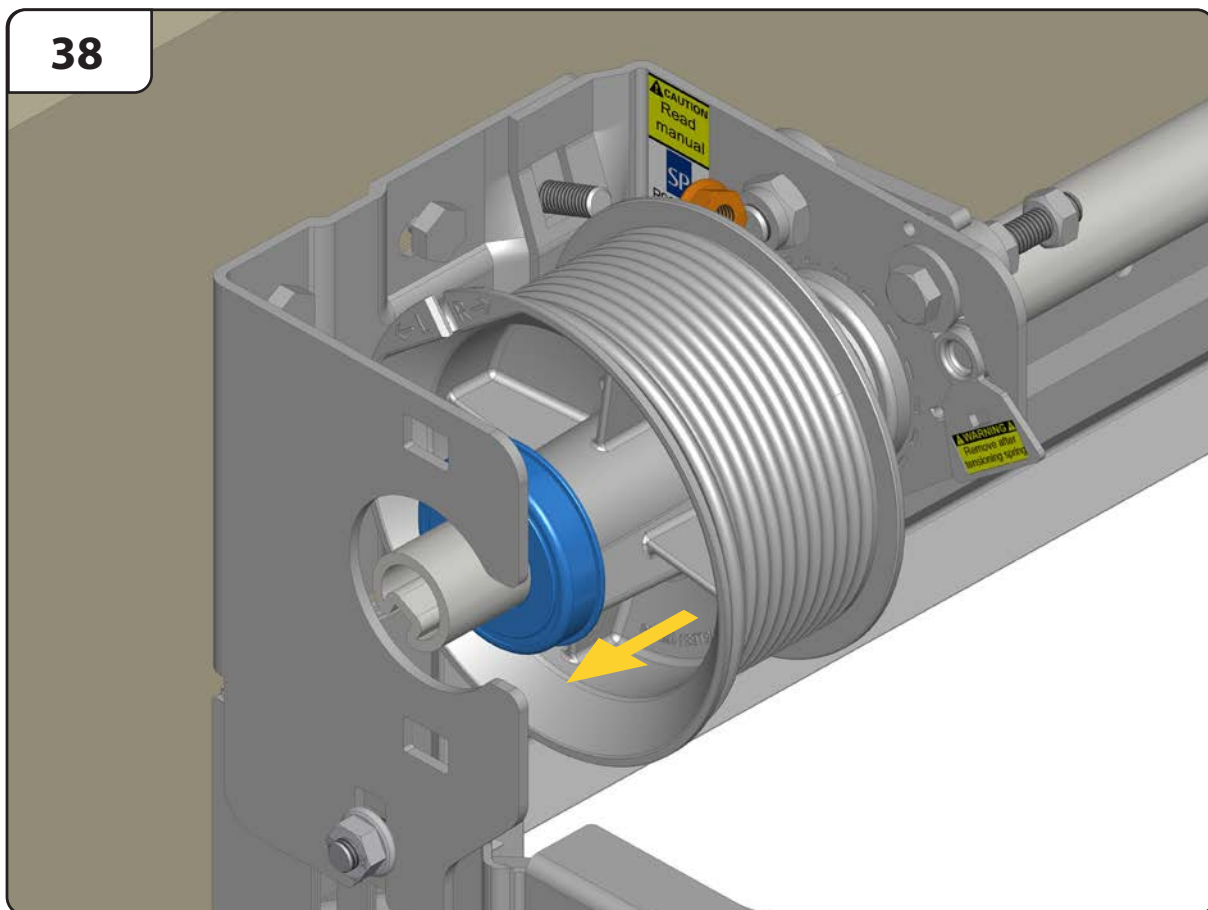


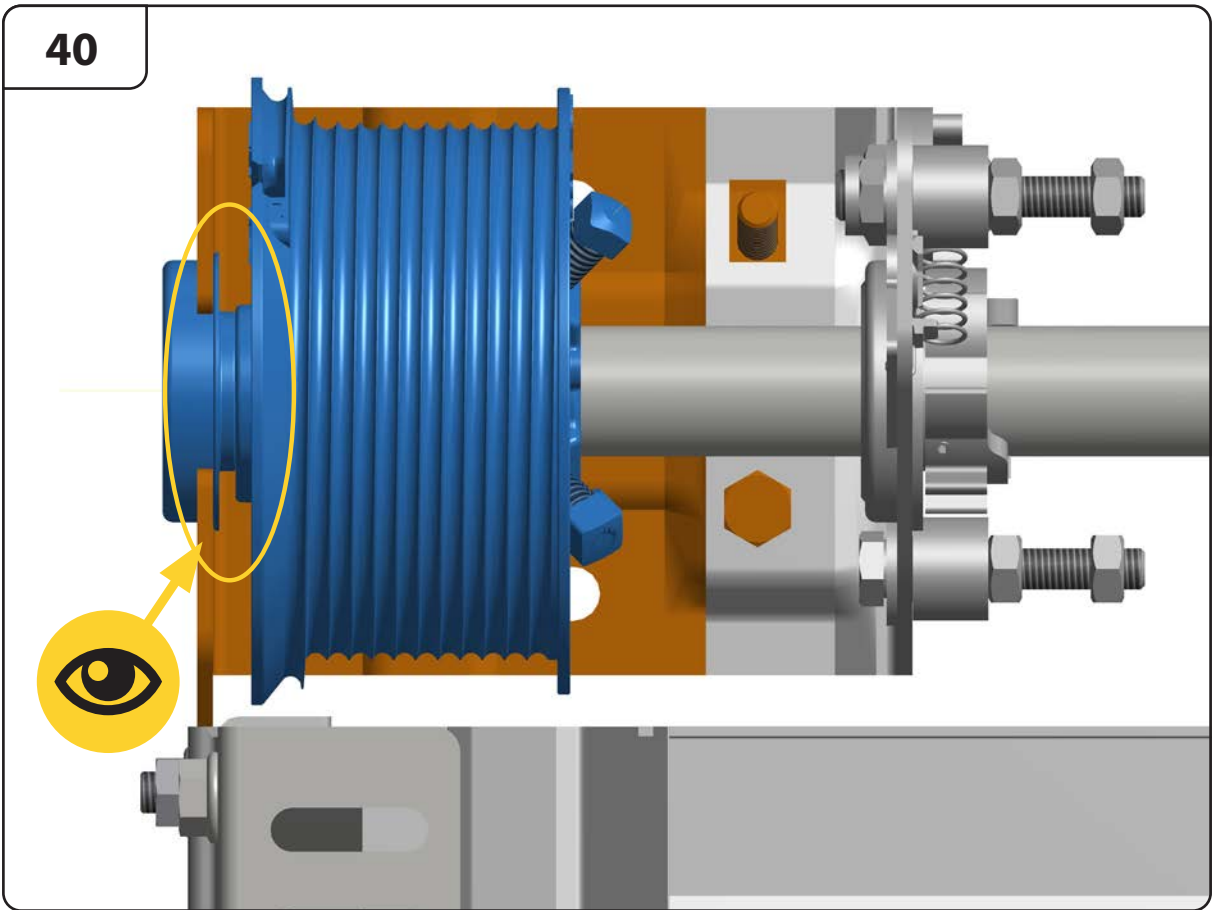
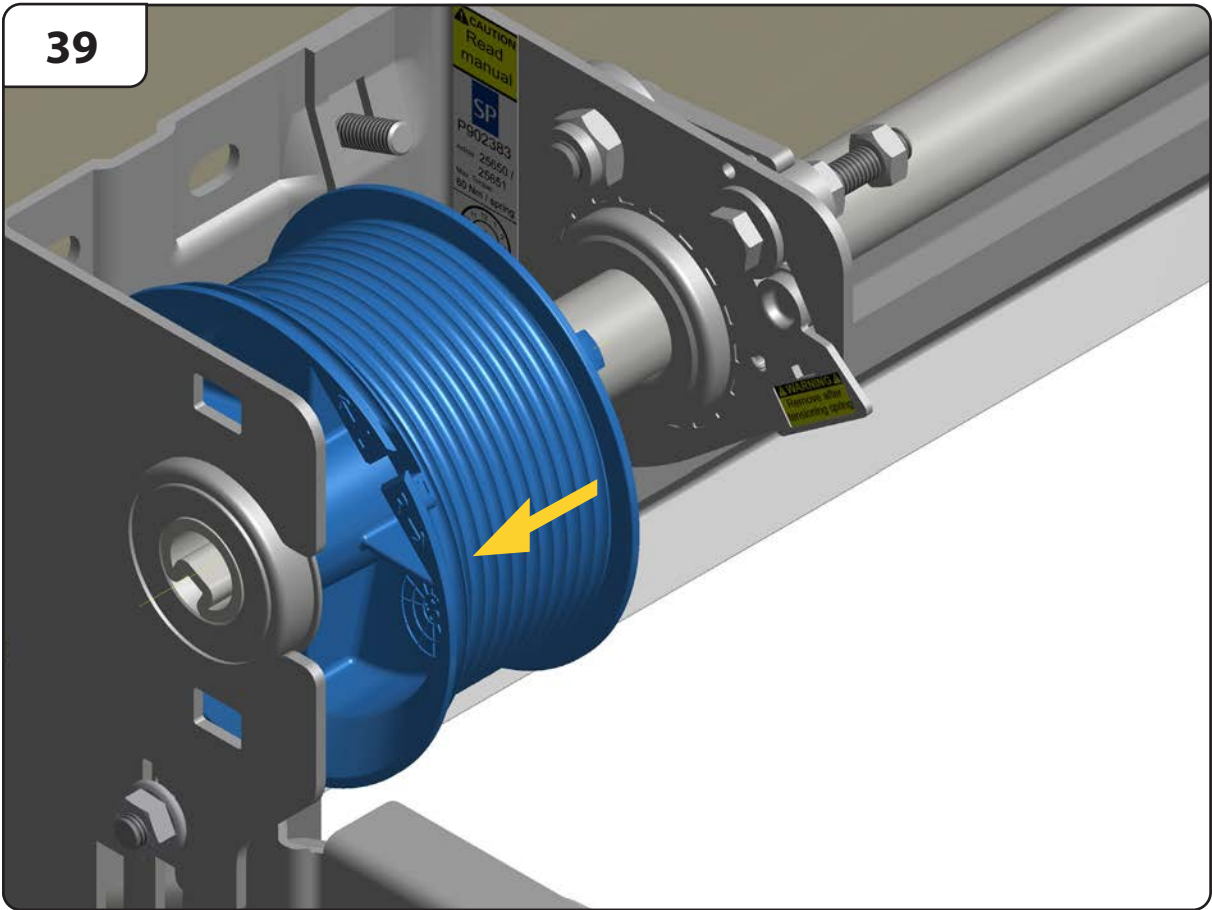


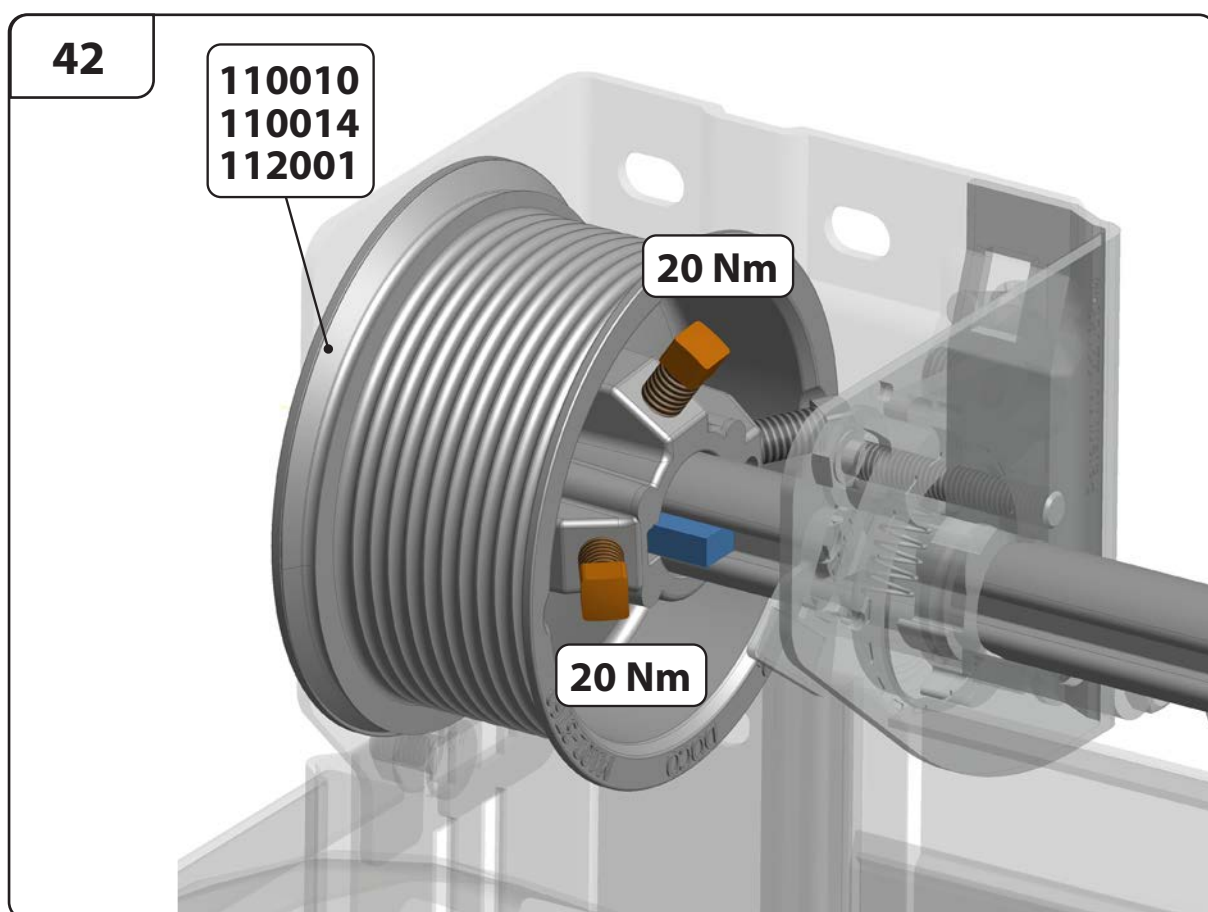
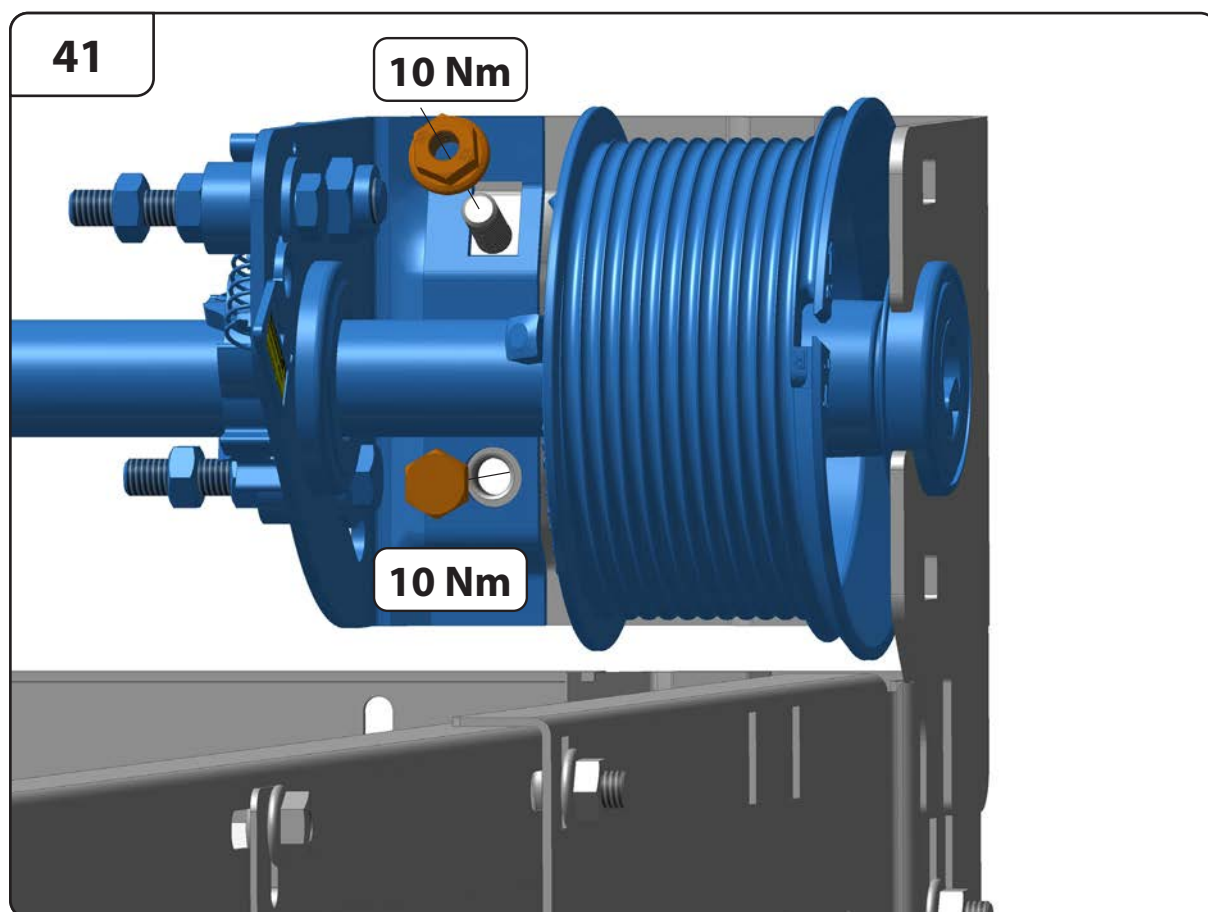
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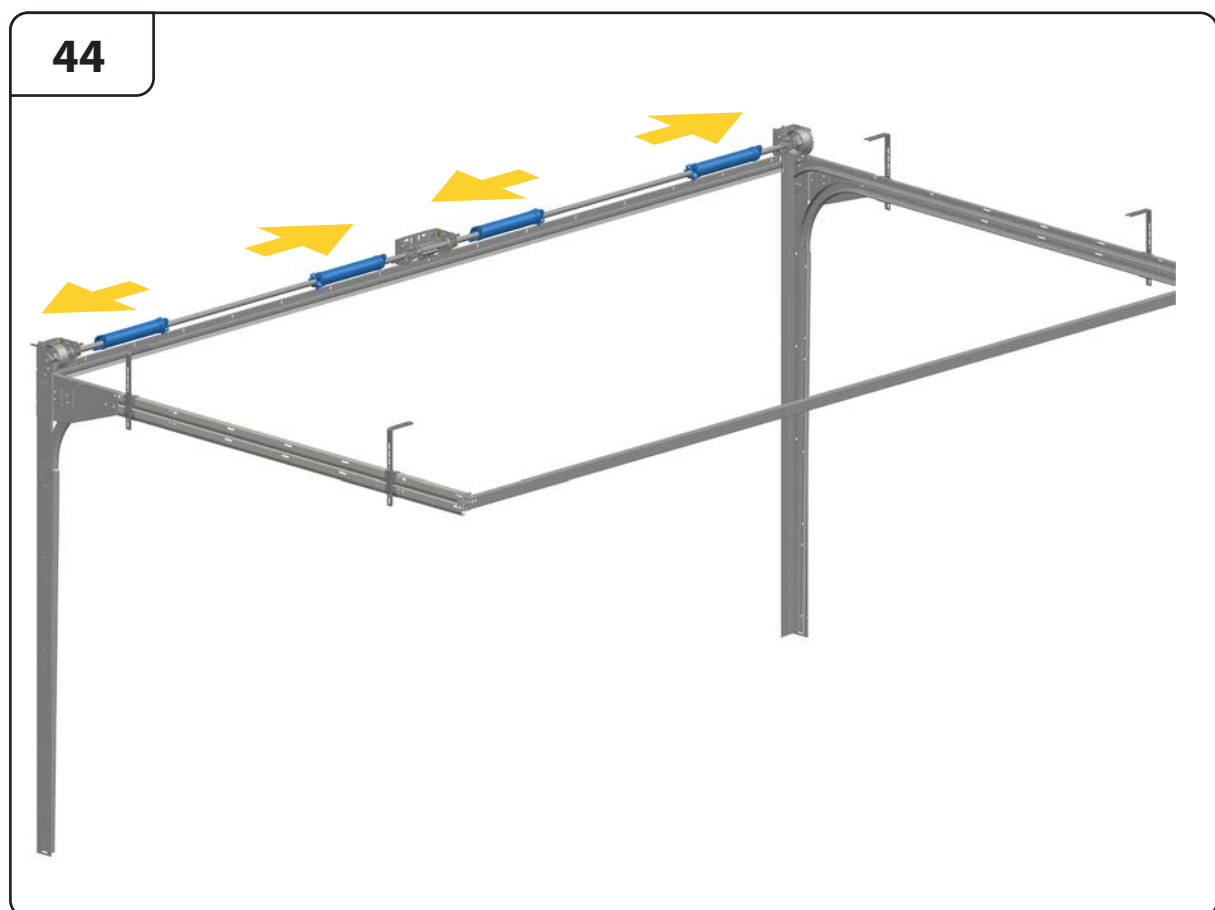
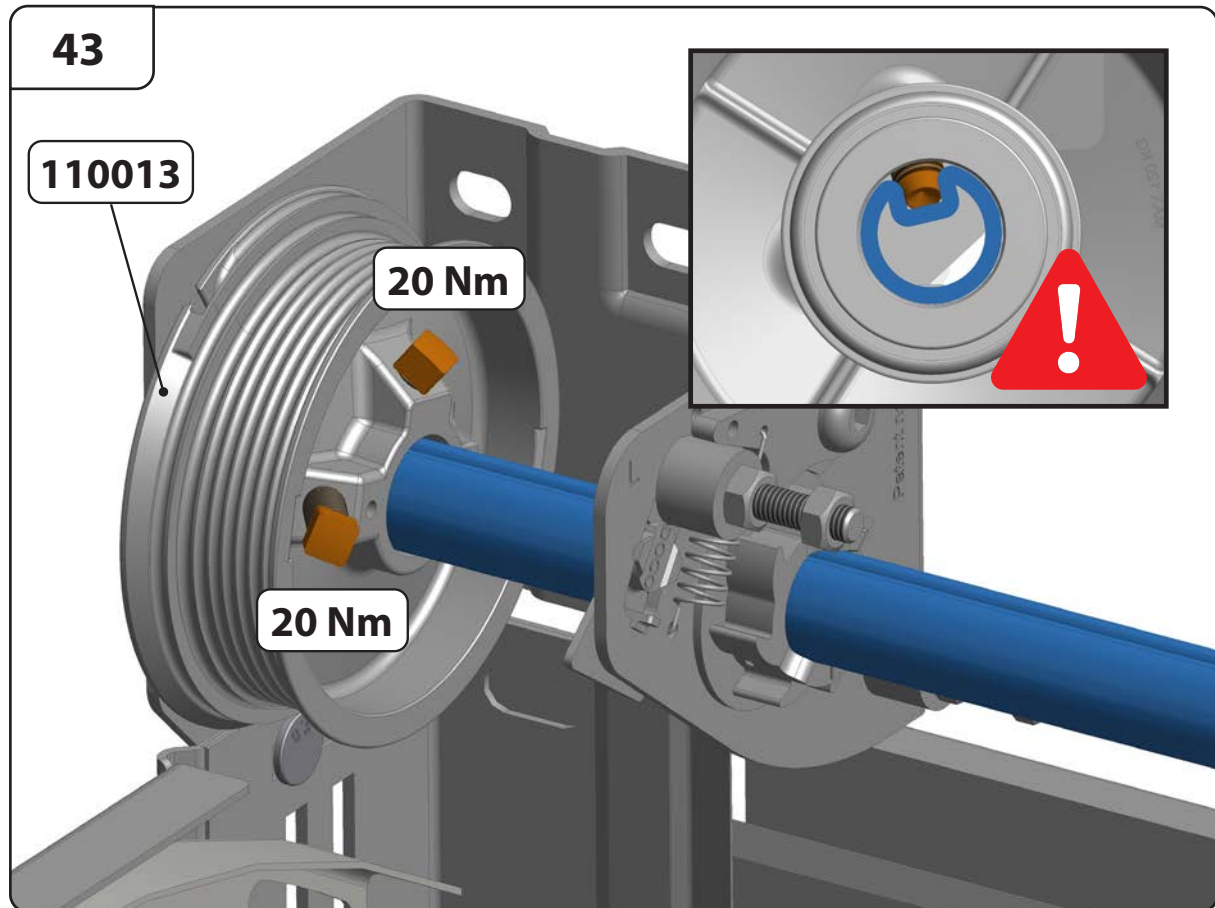


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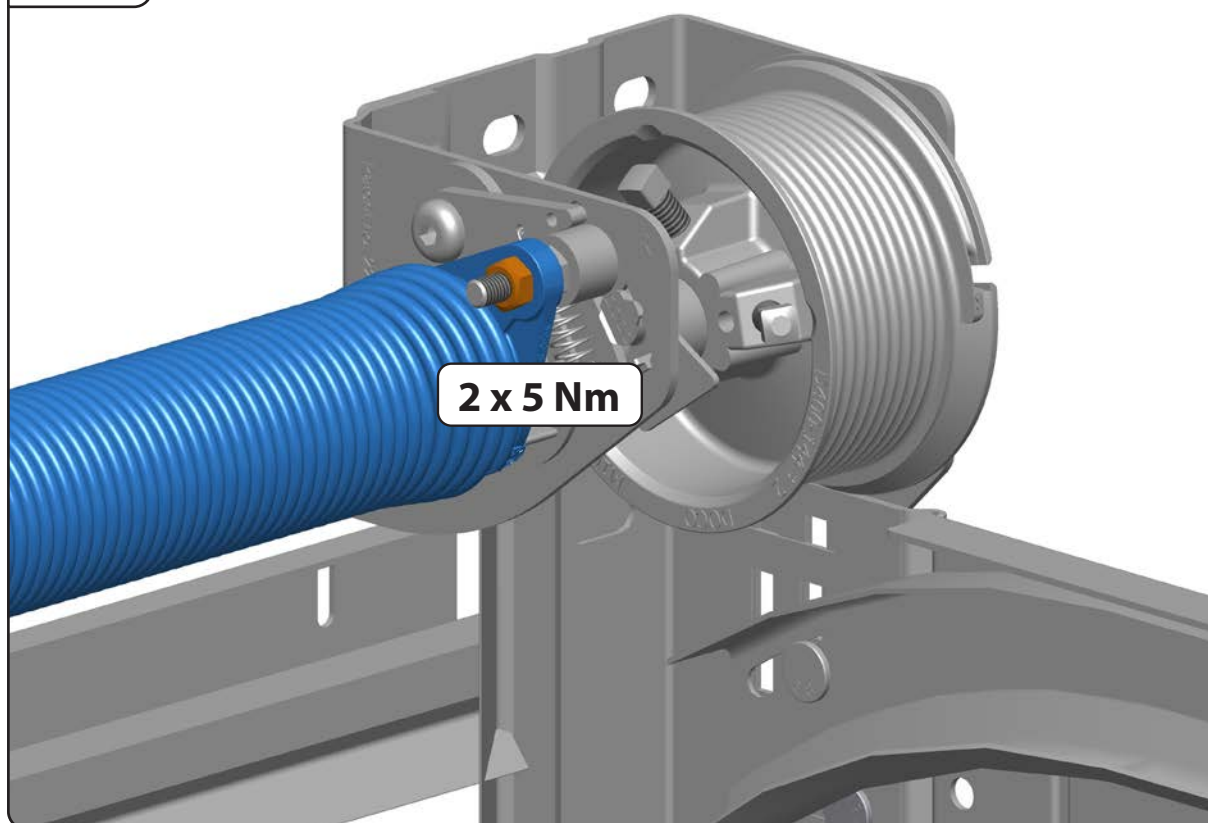




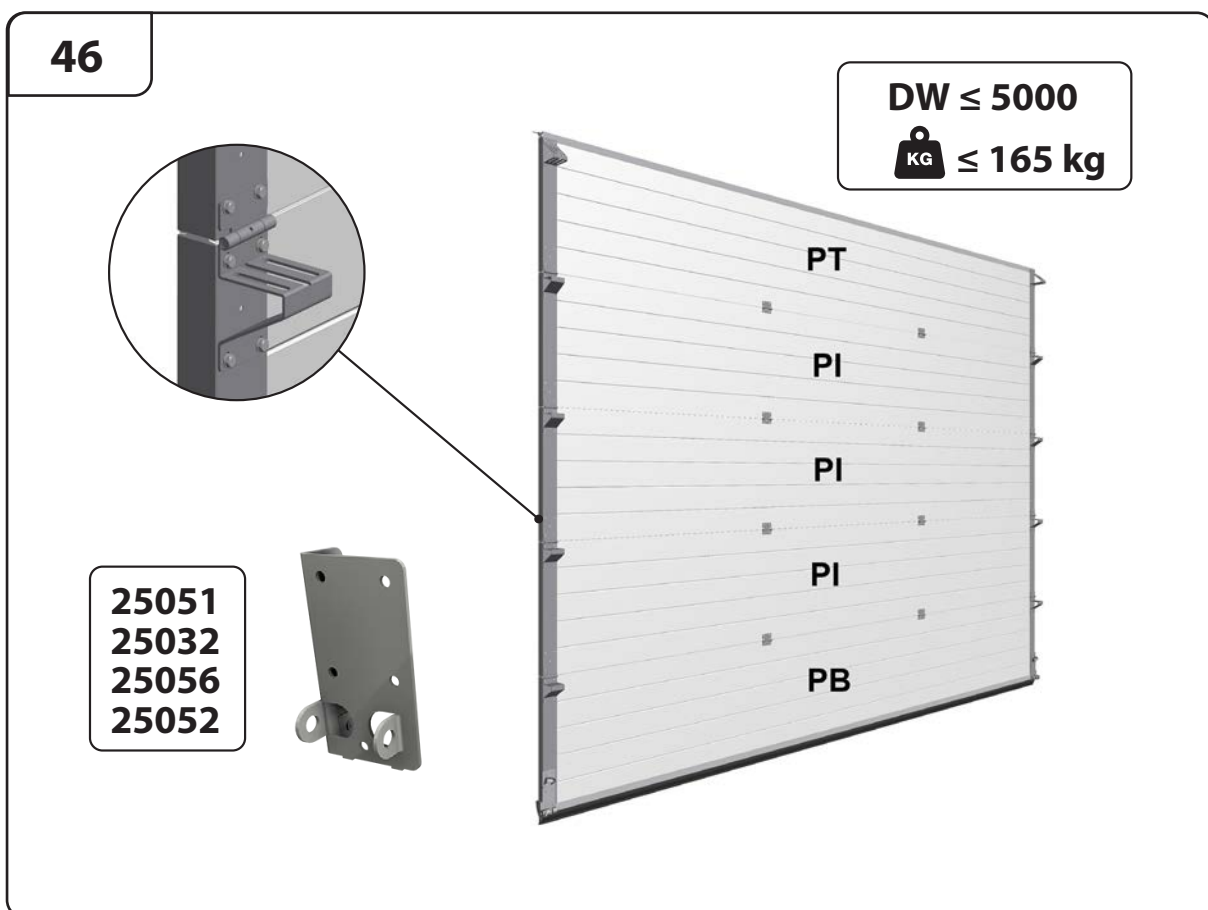




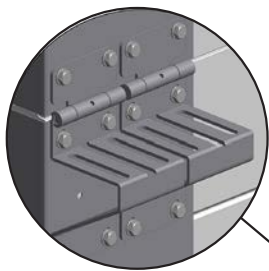
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46



47

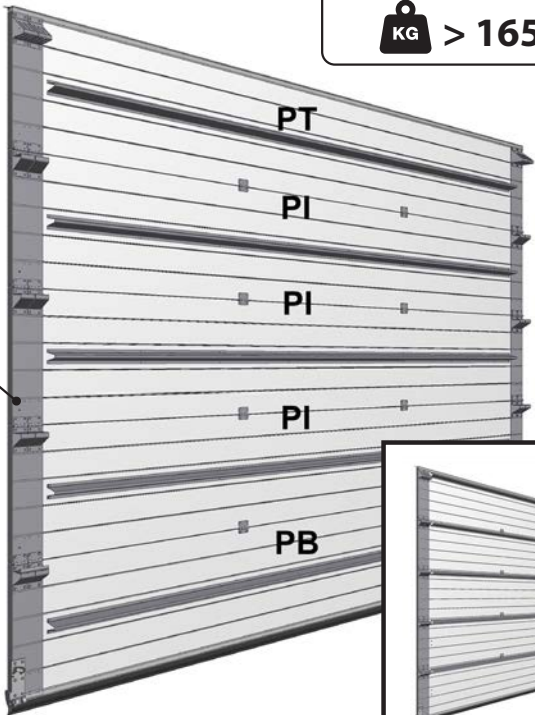


25032

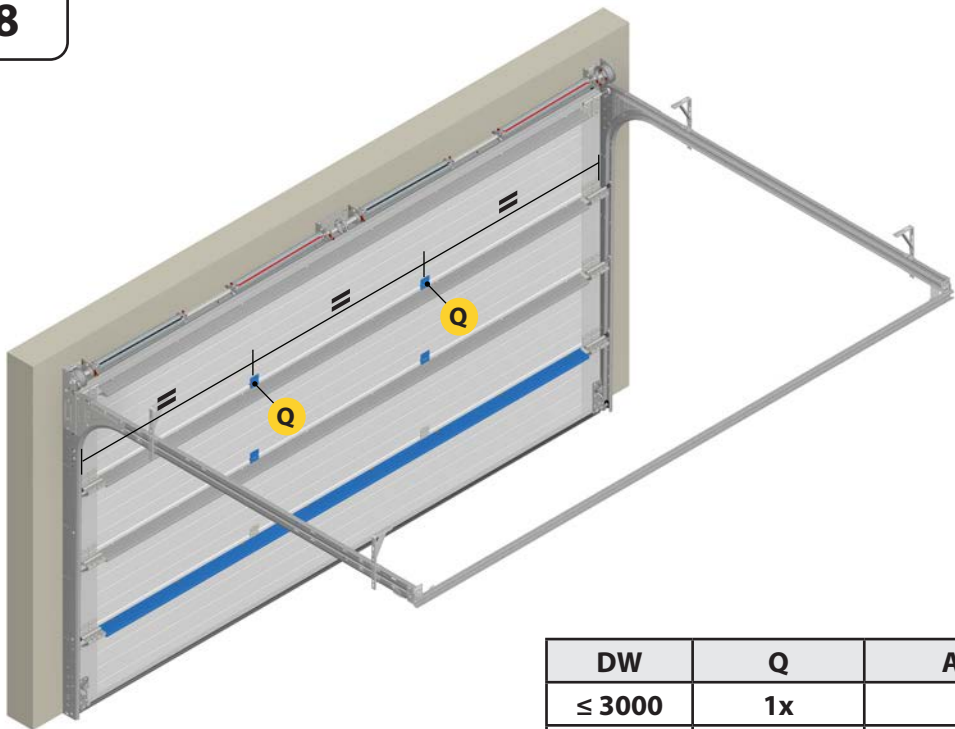


DW > 5001

 > 165 kg

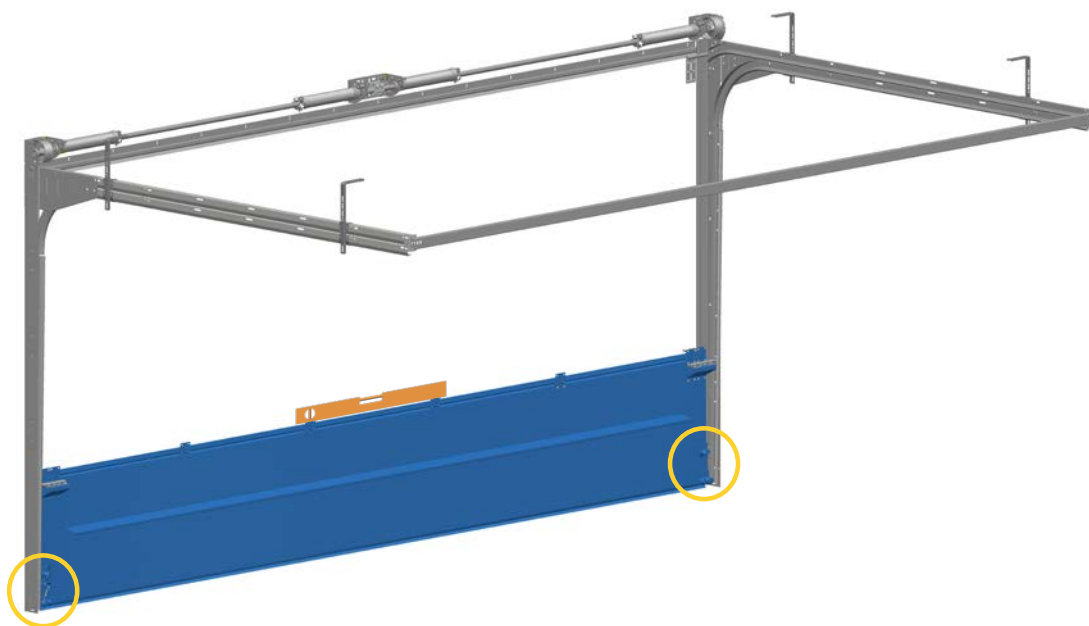


48



DW	Q	Article
≤ 3000	1x	-
> 3000	2x	-
> 4500	3x	-
>5000	-	220900-XXXX

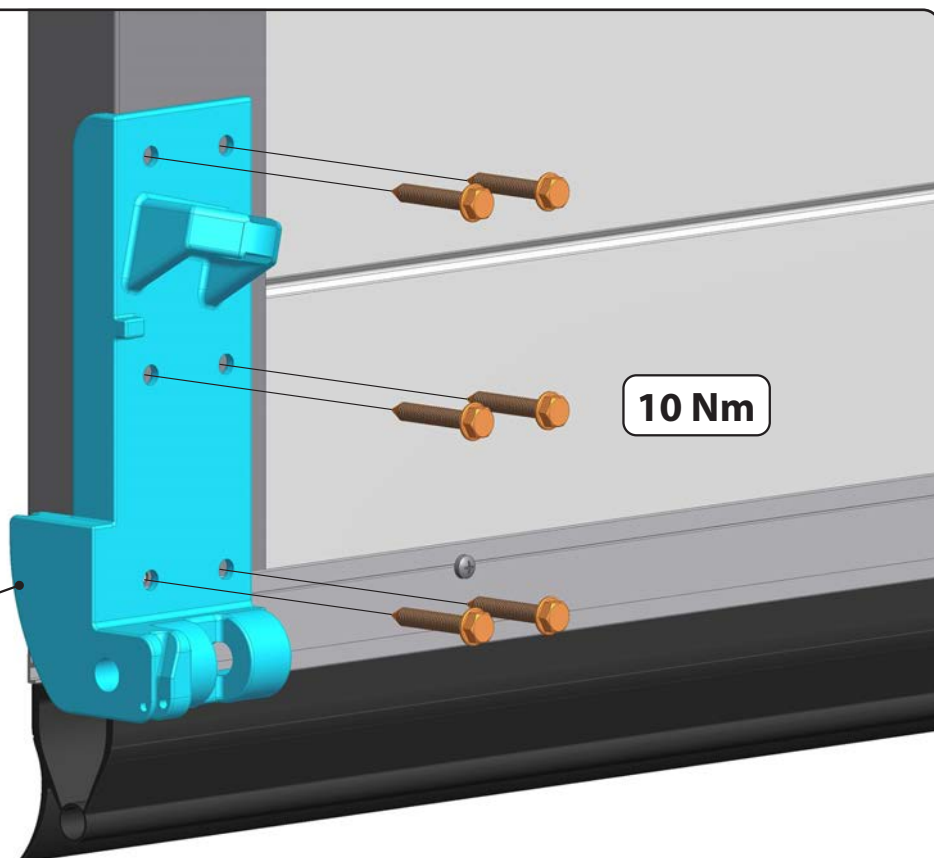
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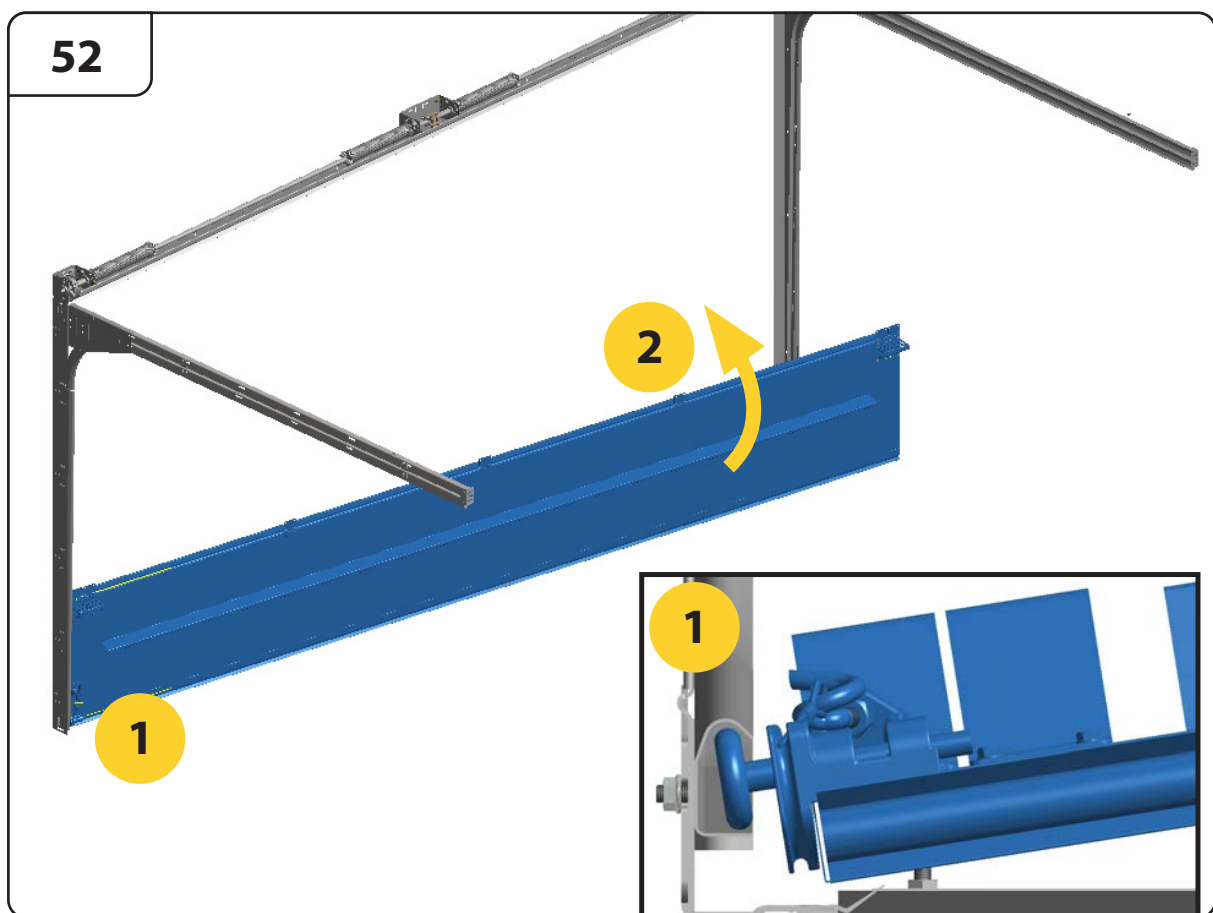
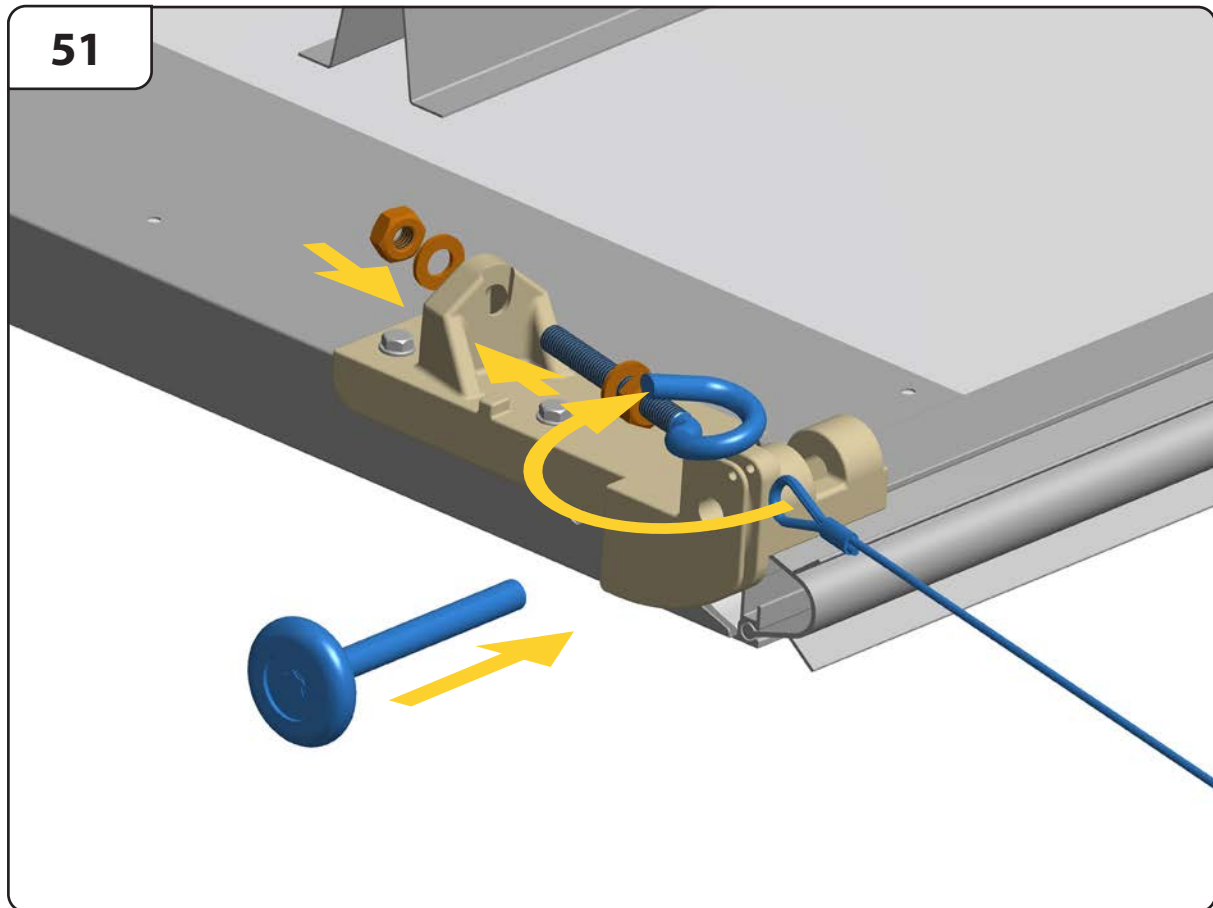


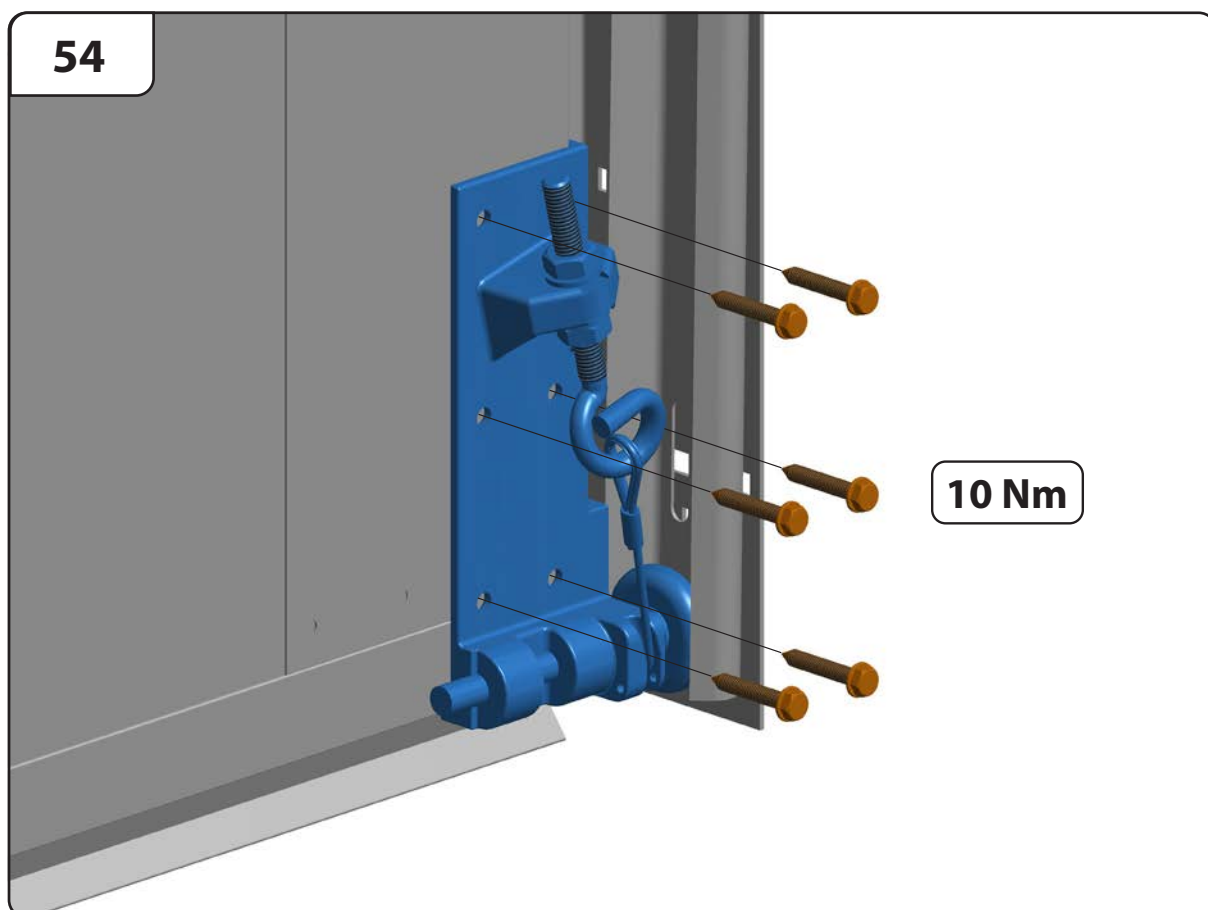
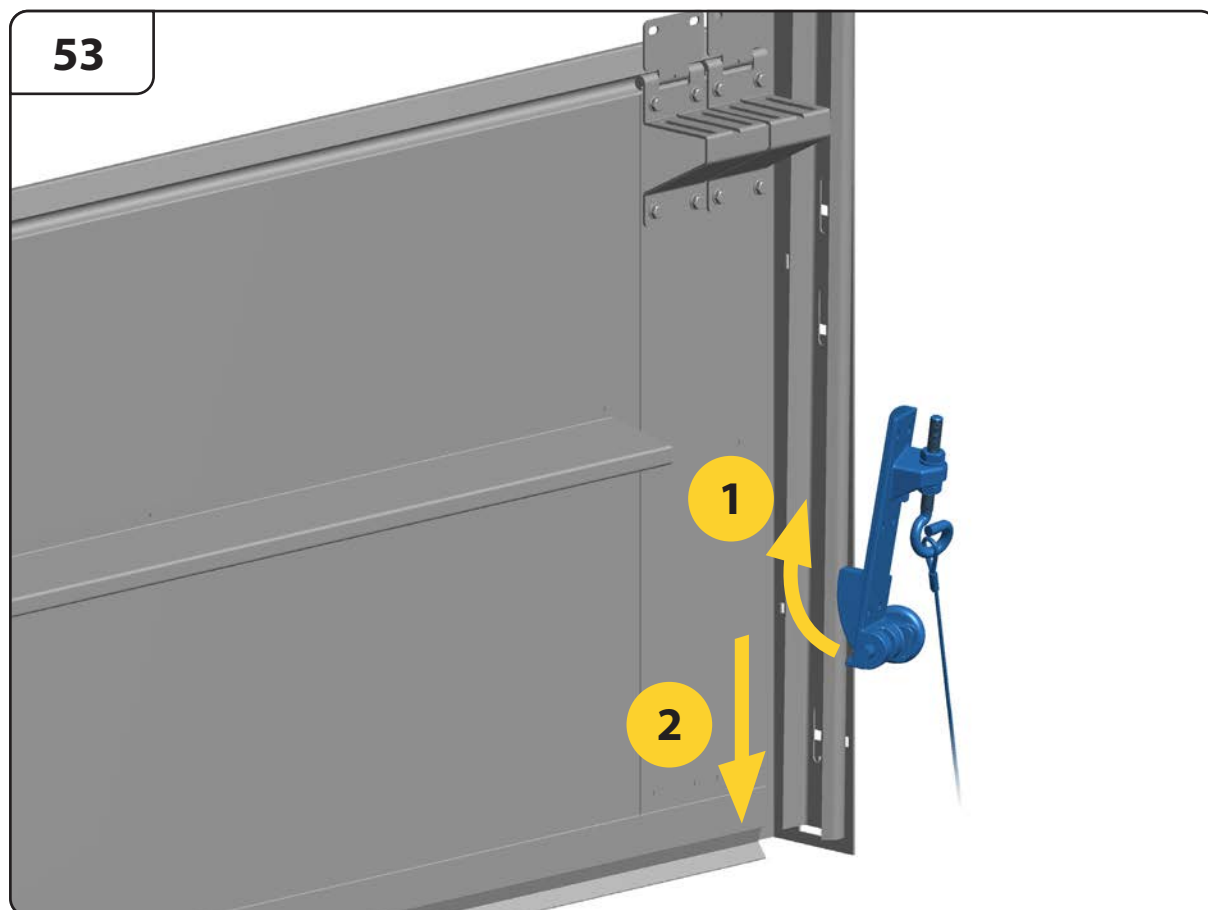
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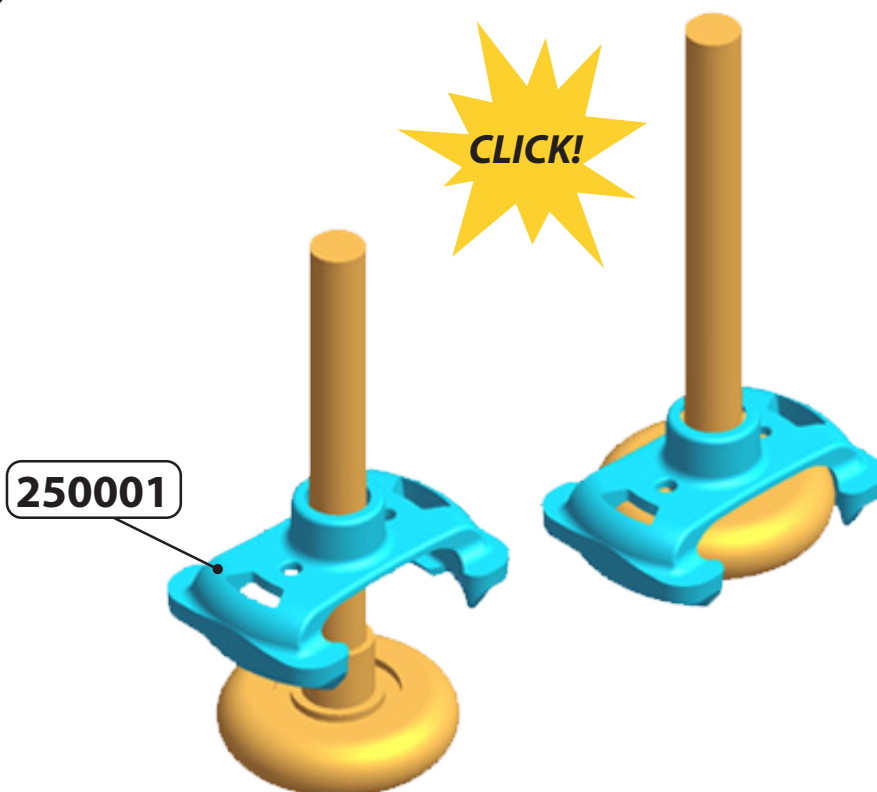
25032



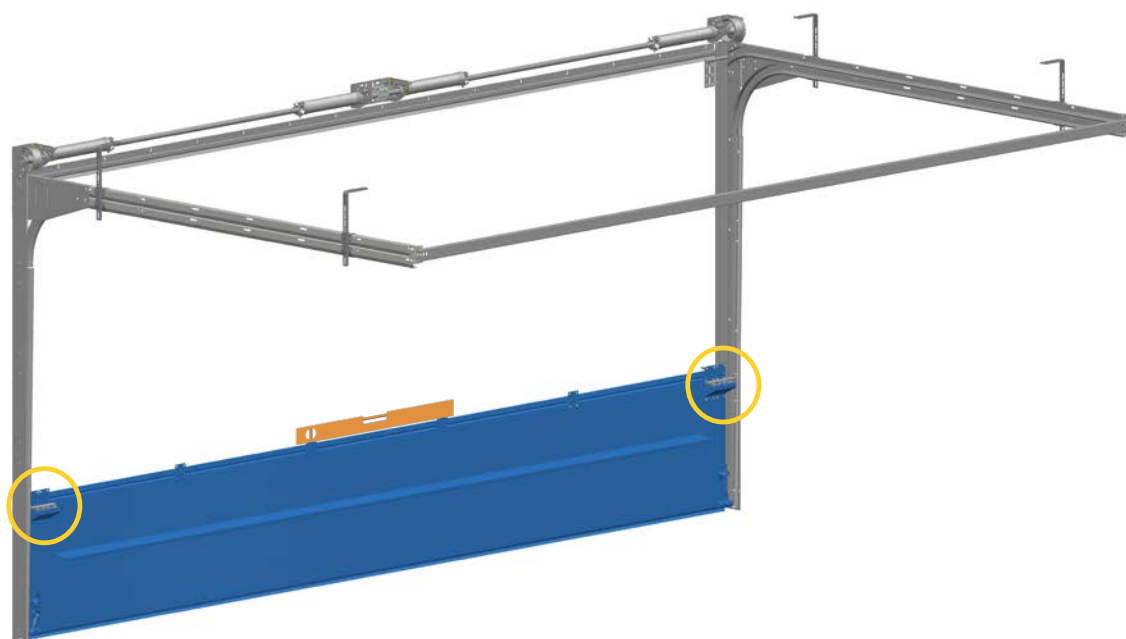


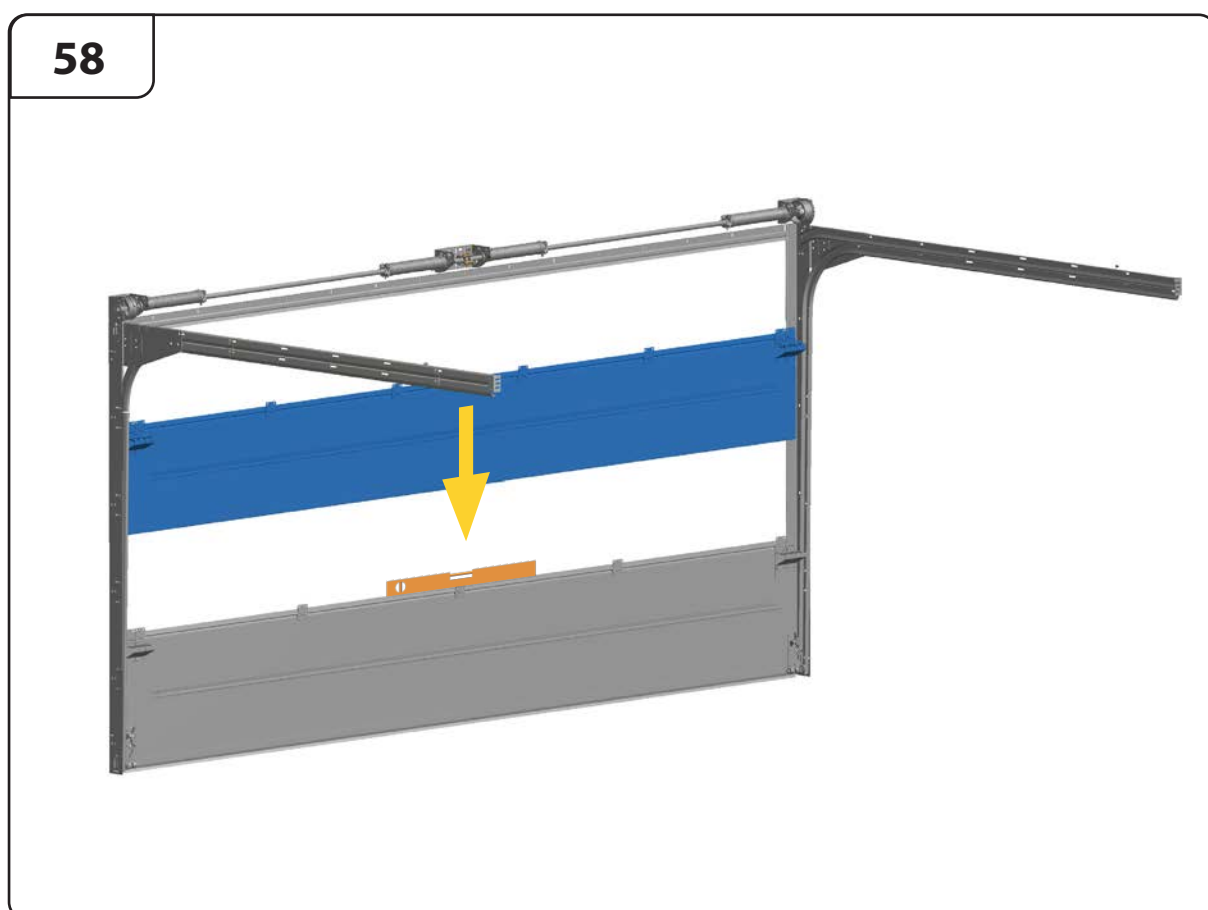
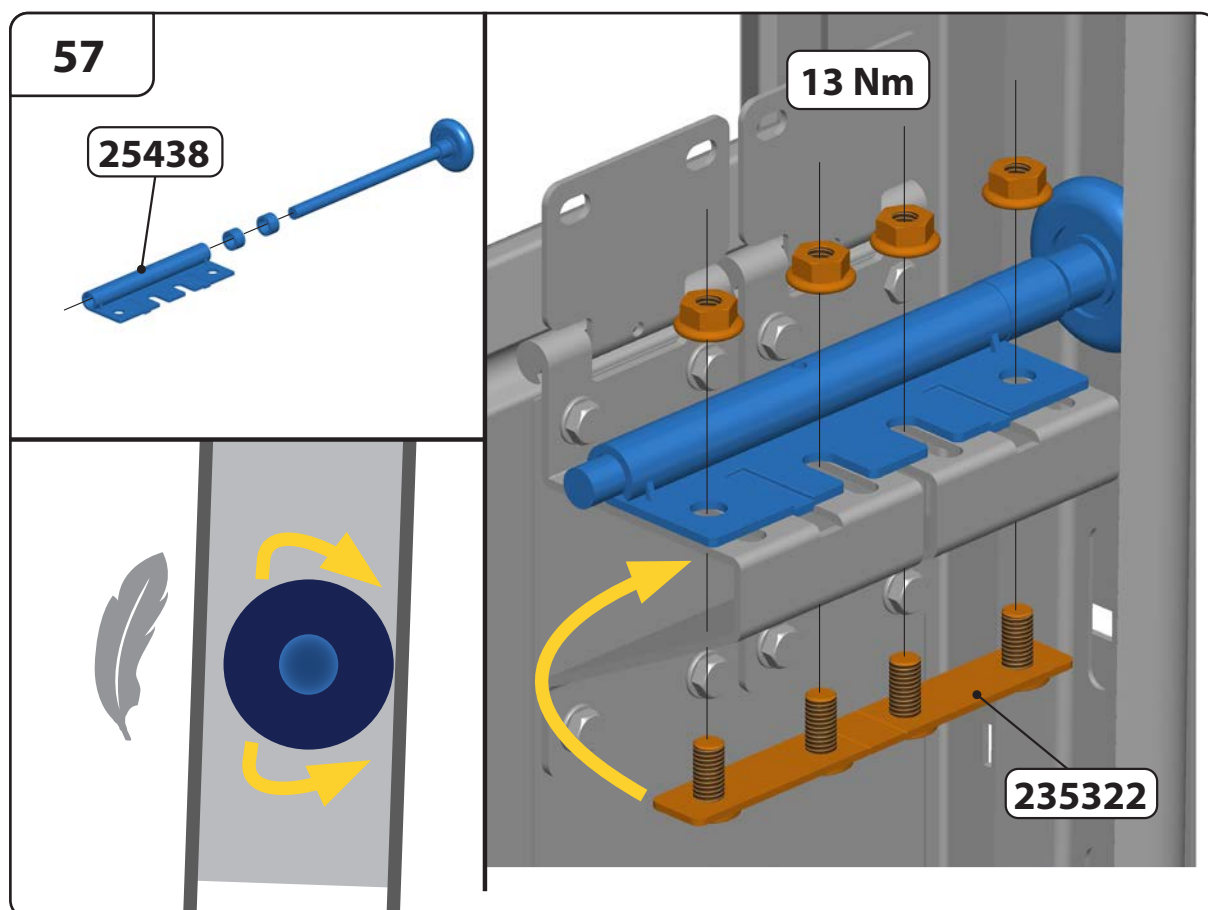


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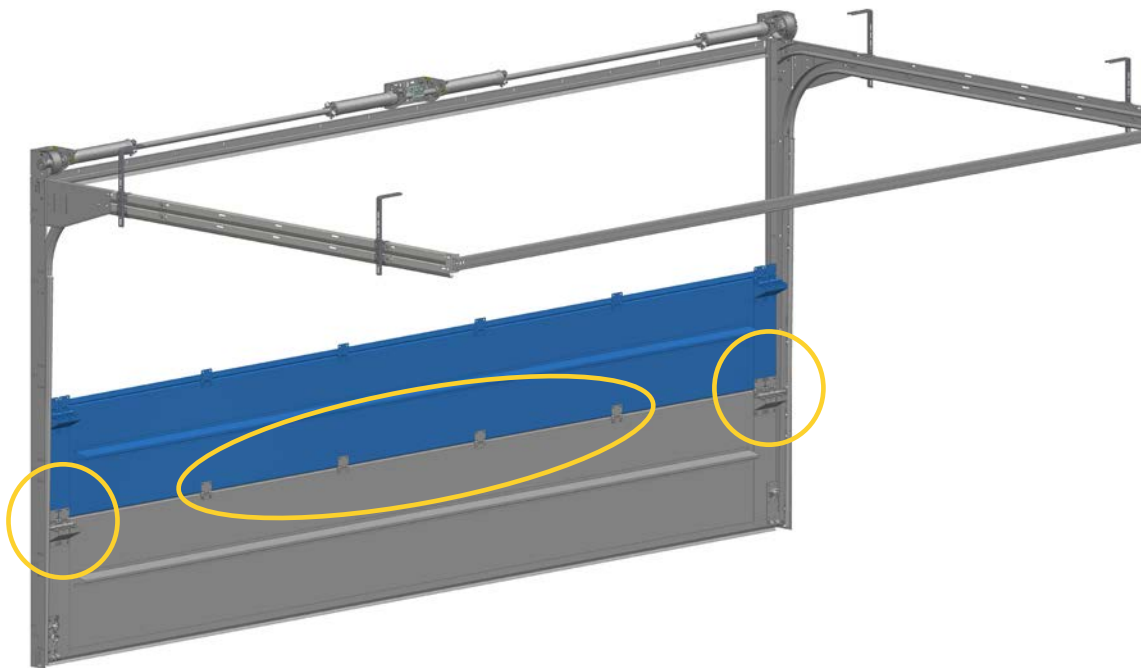


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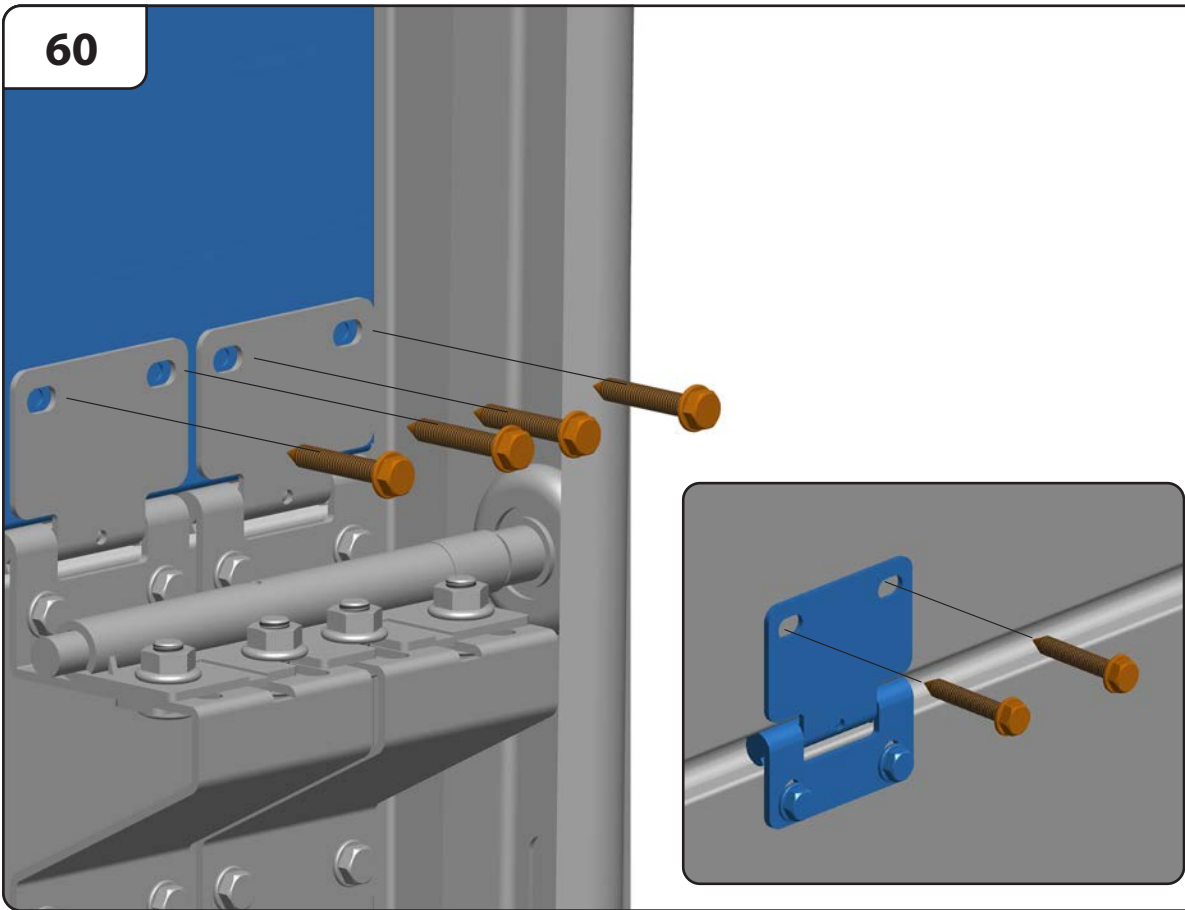




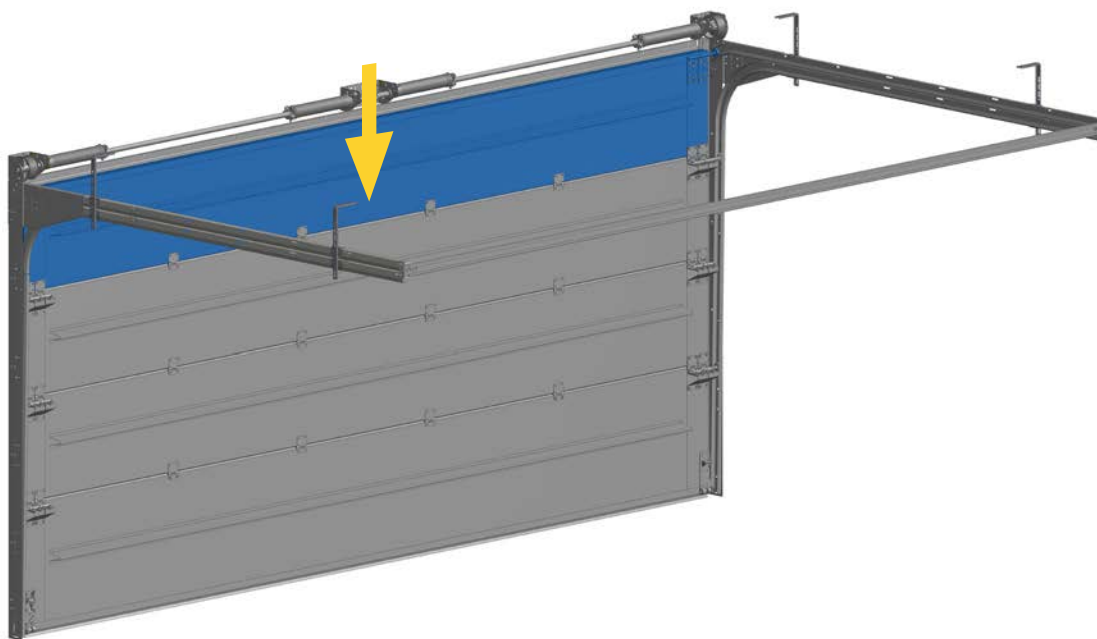
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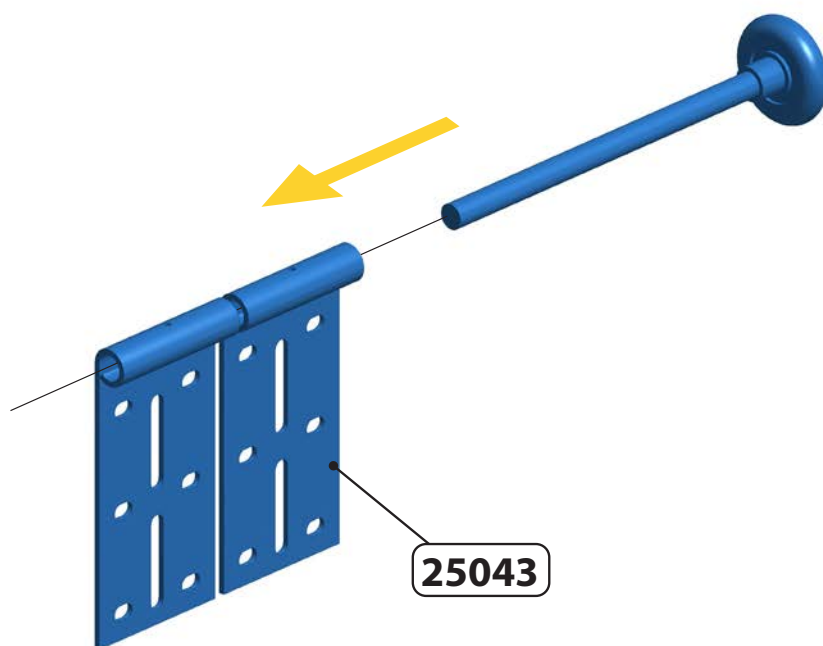
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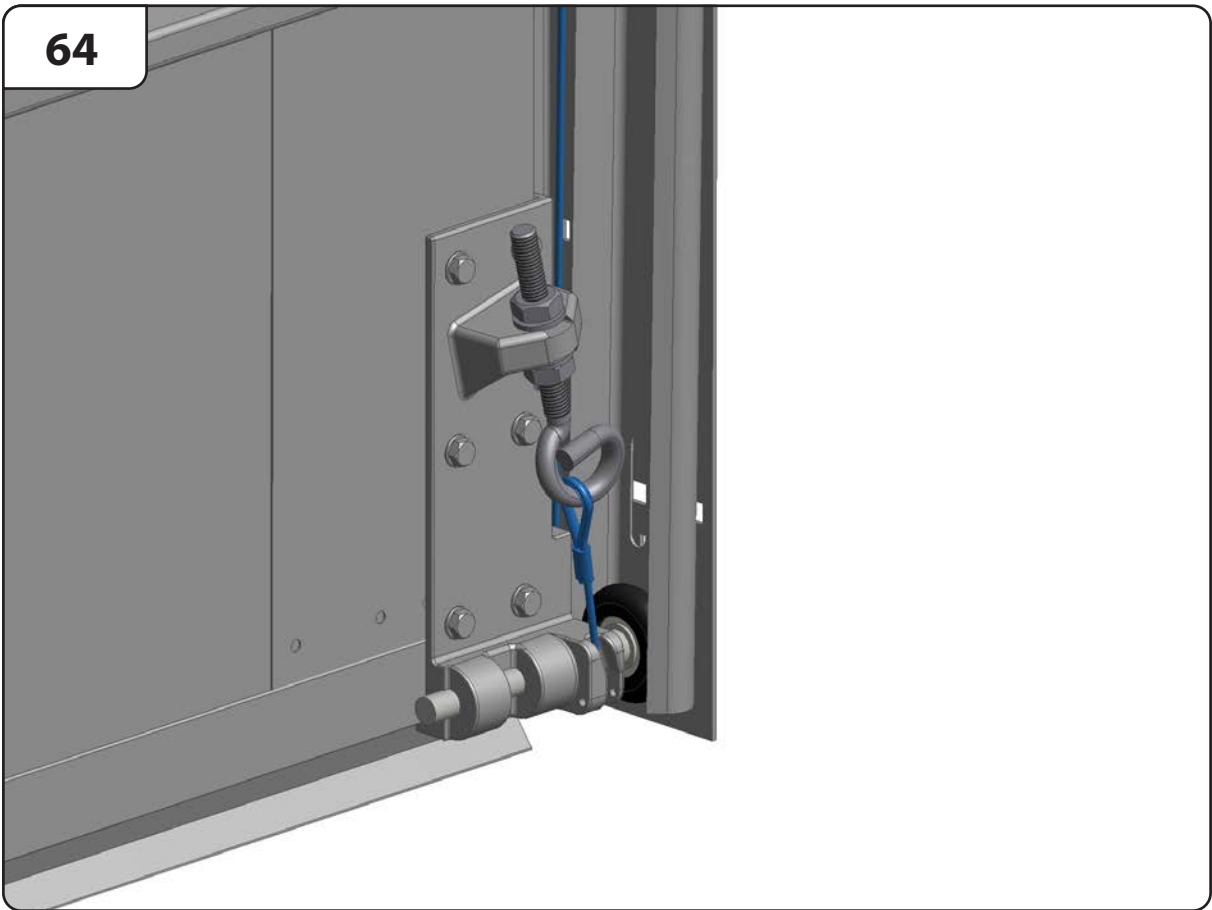
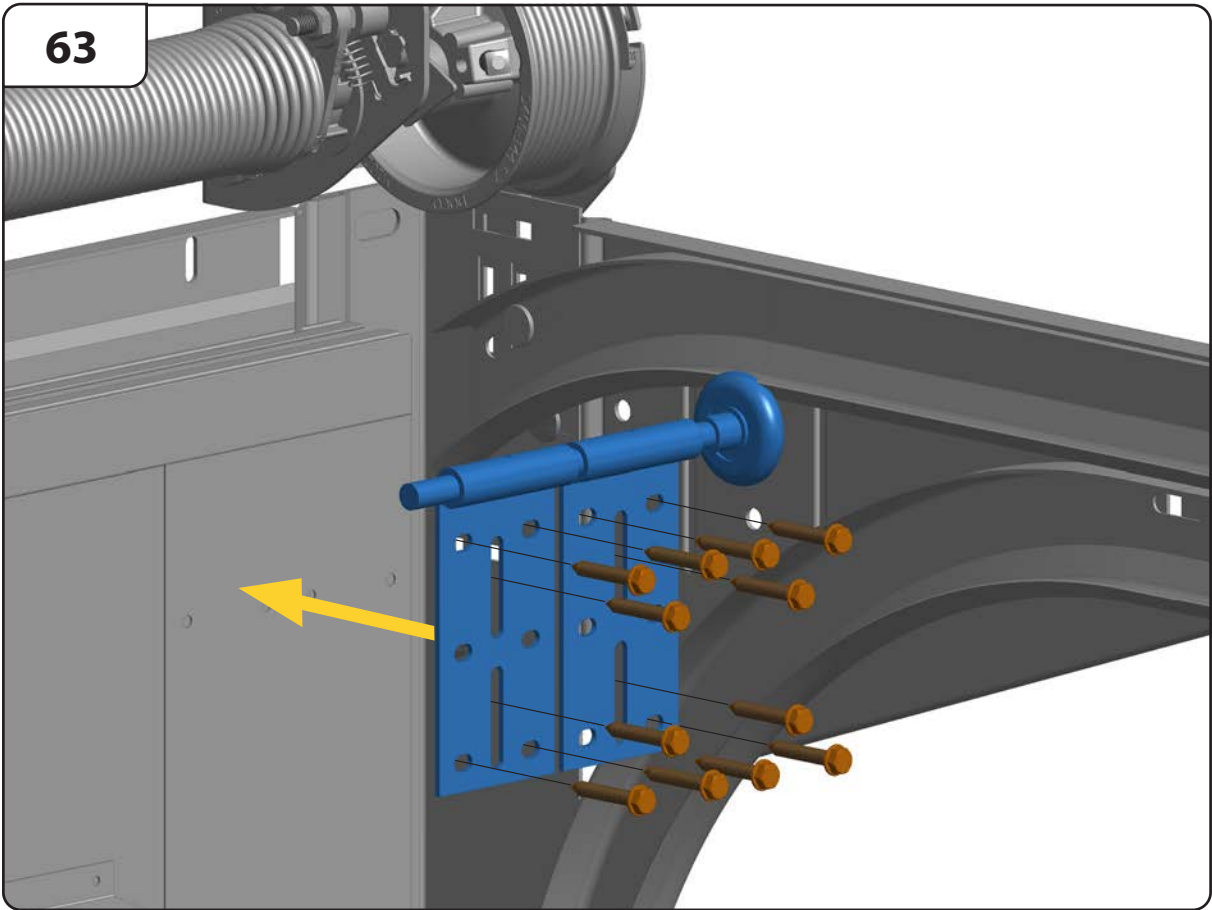


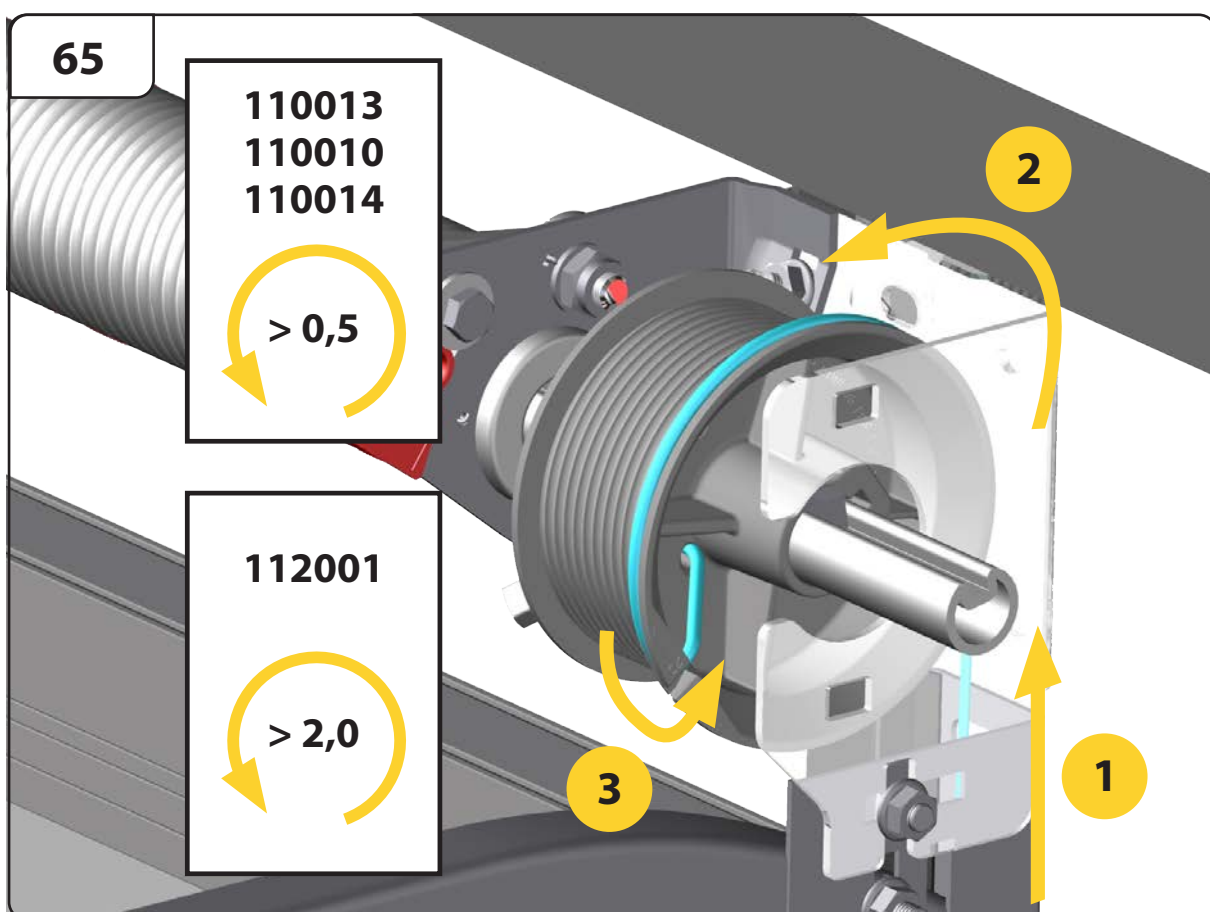
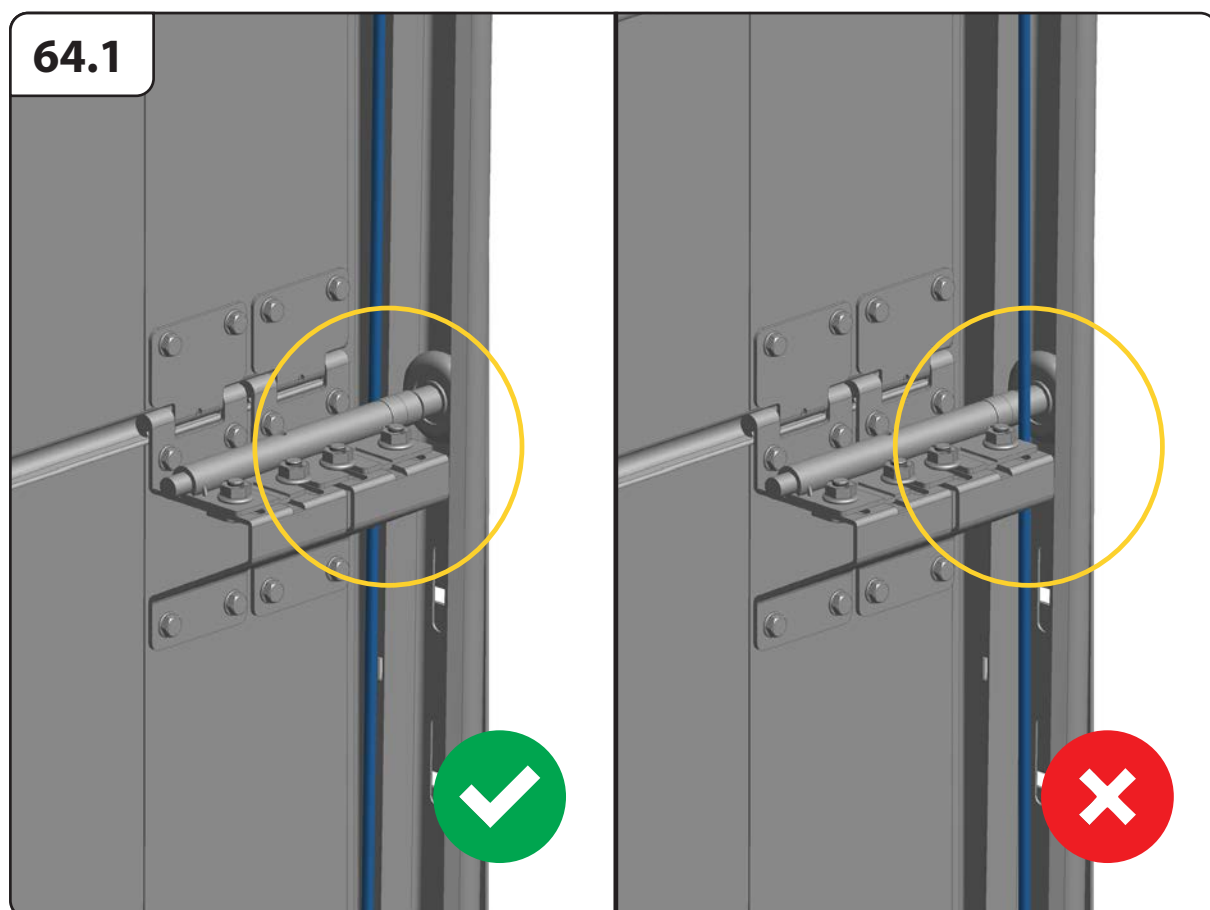
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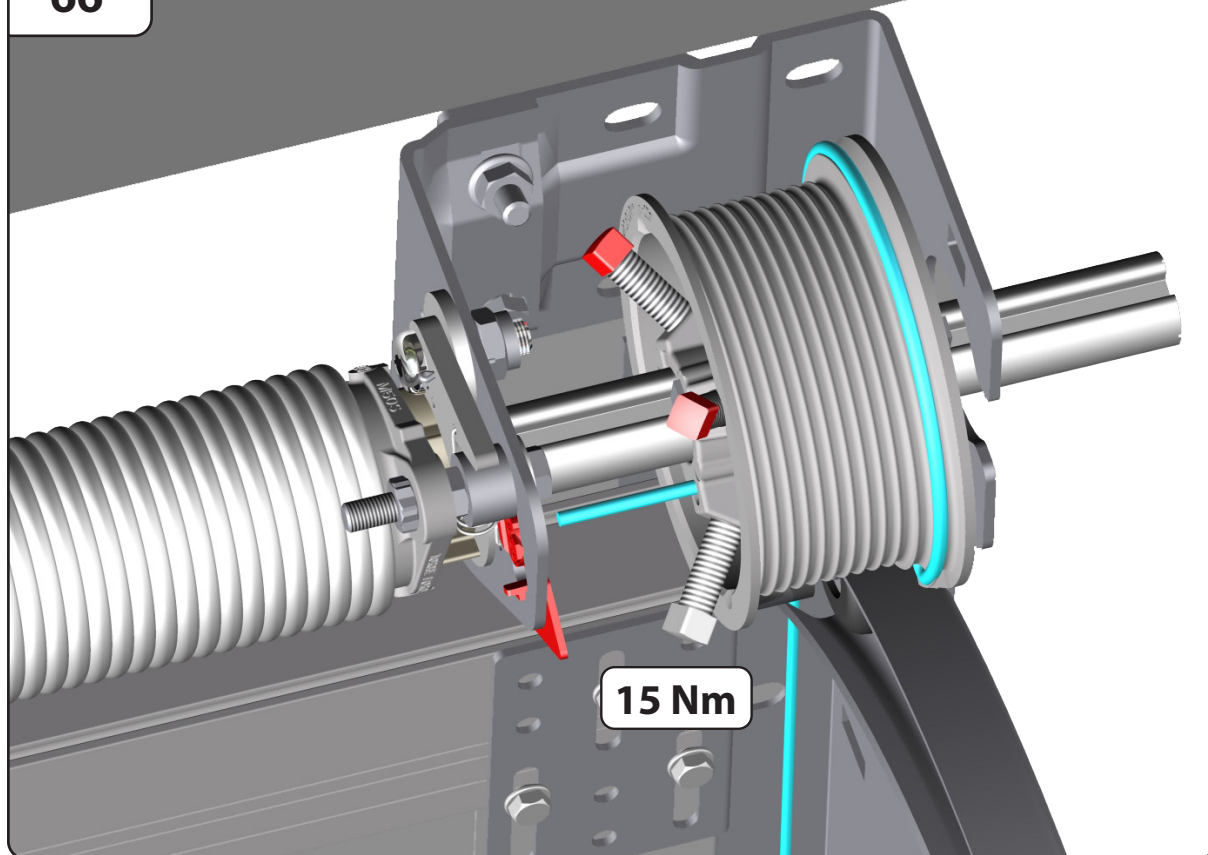
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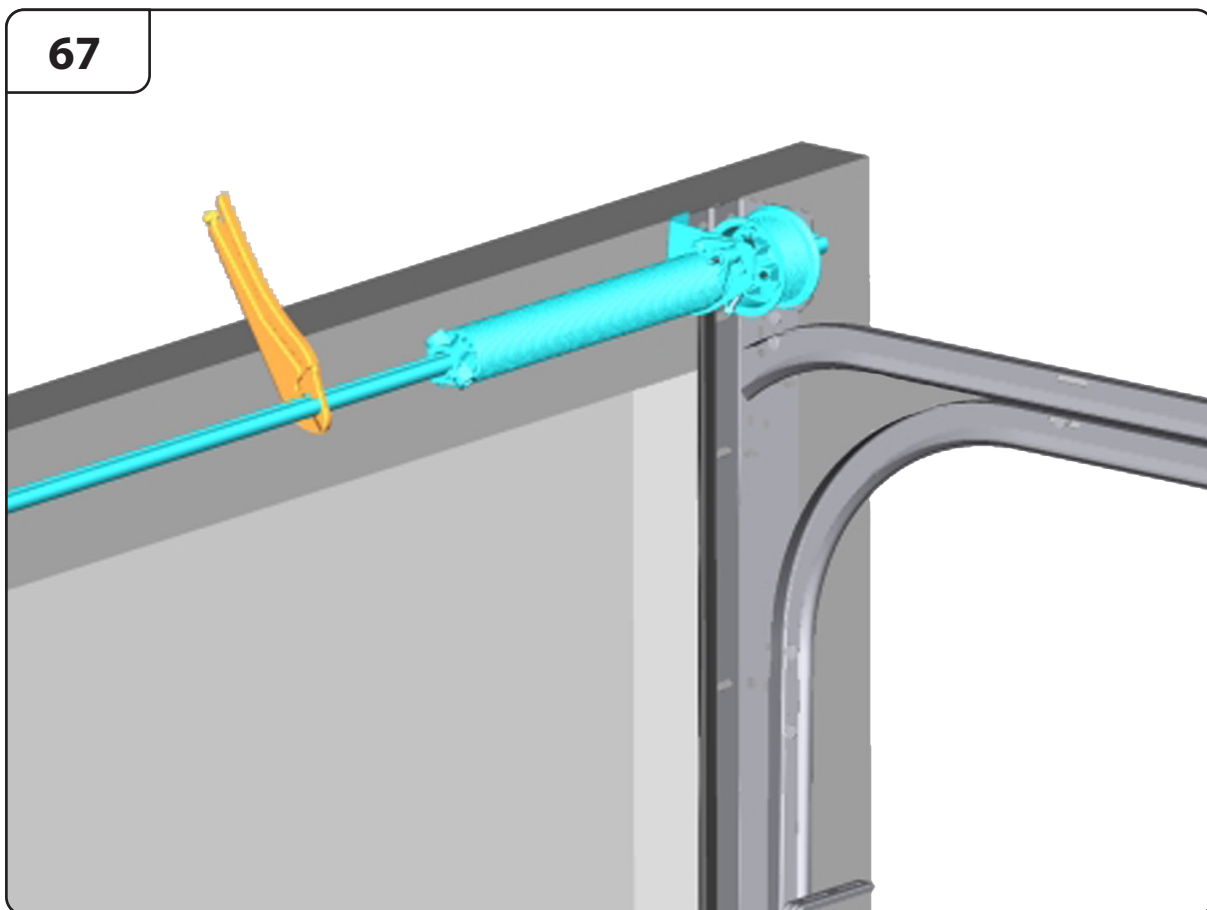




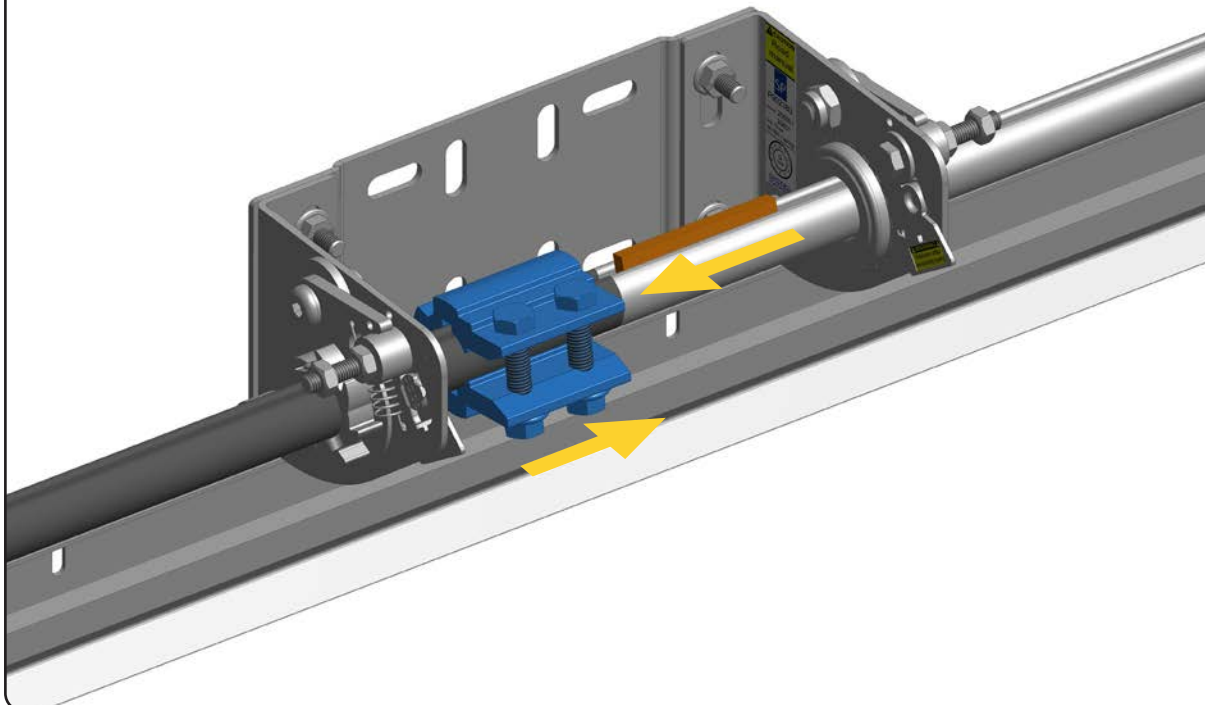
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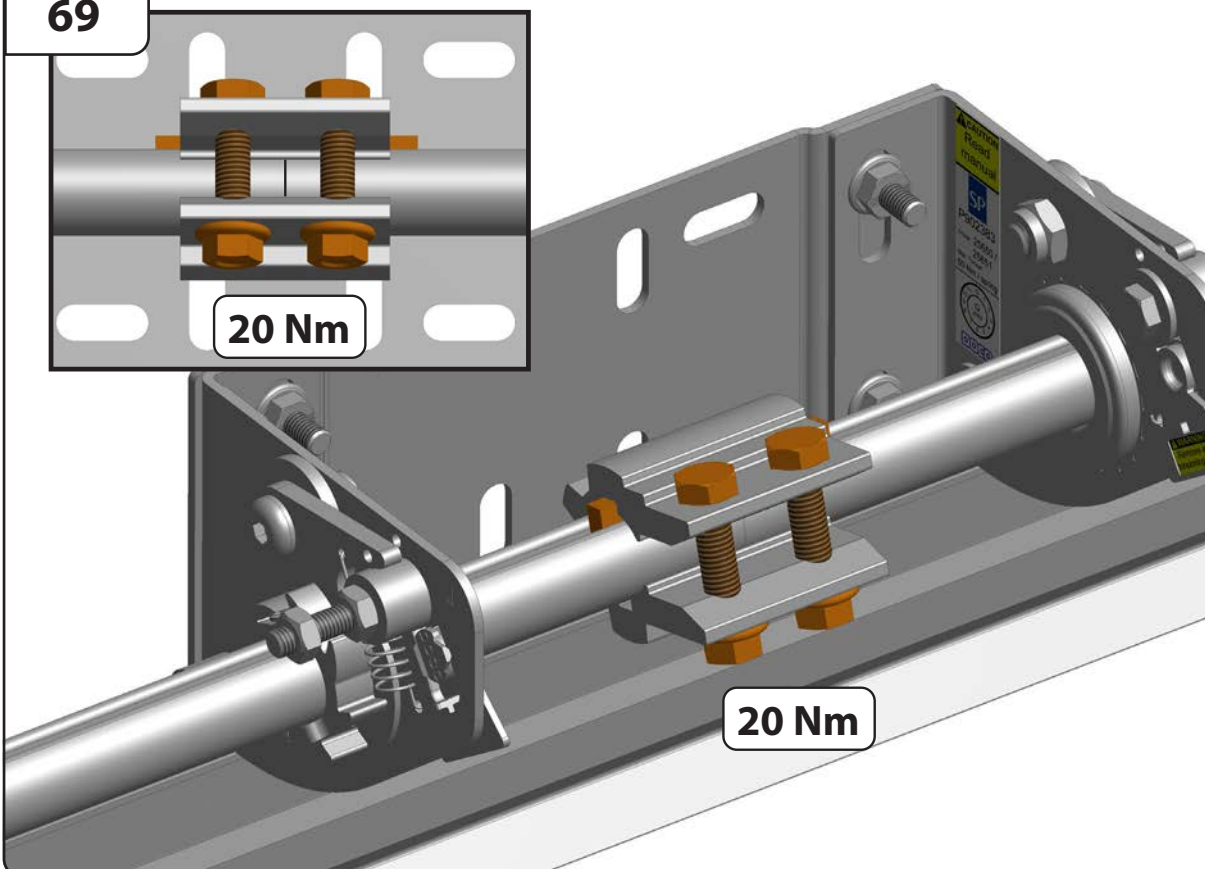
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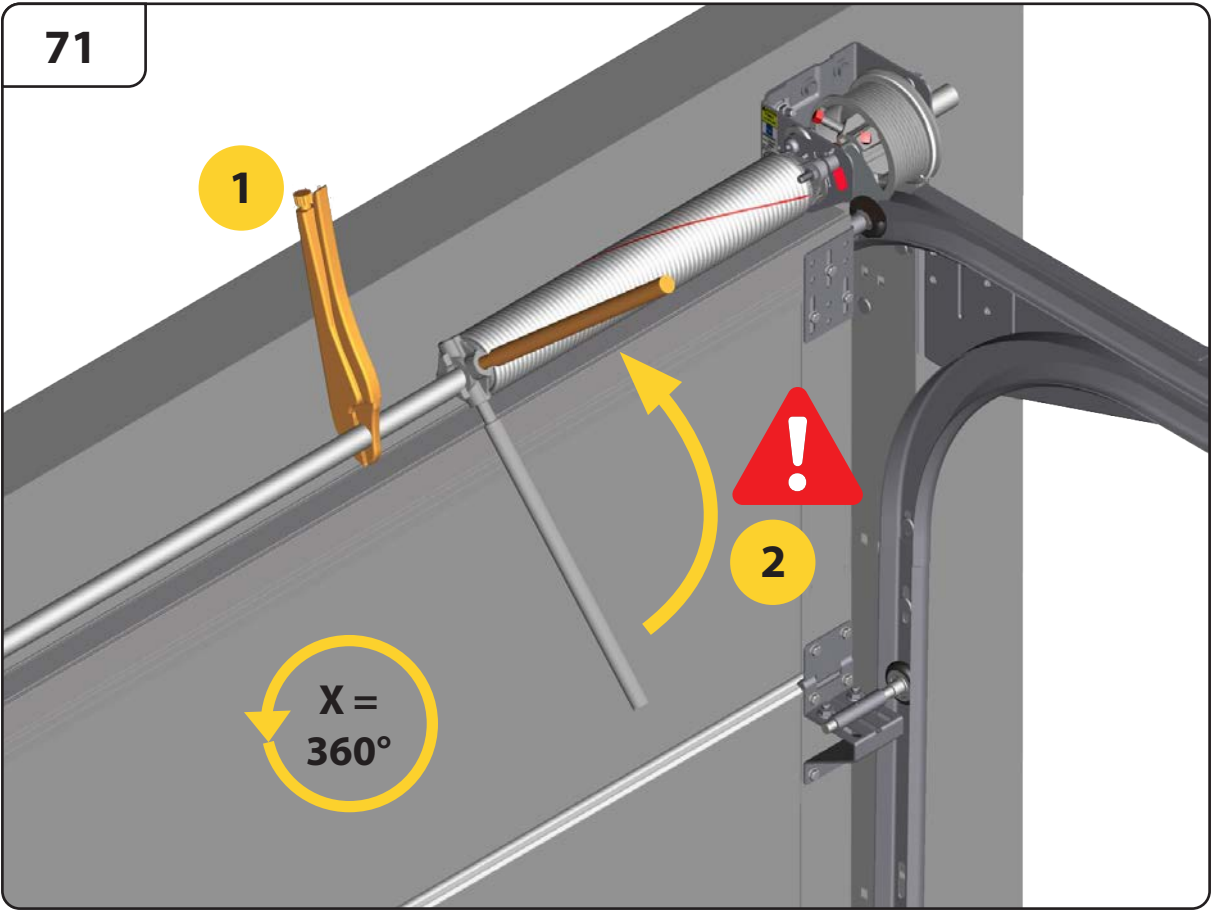
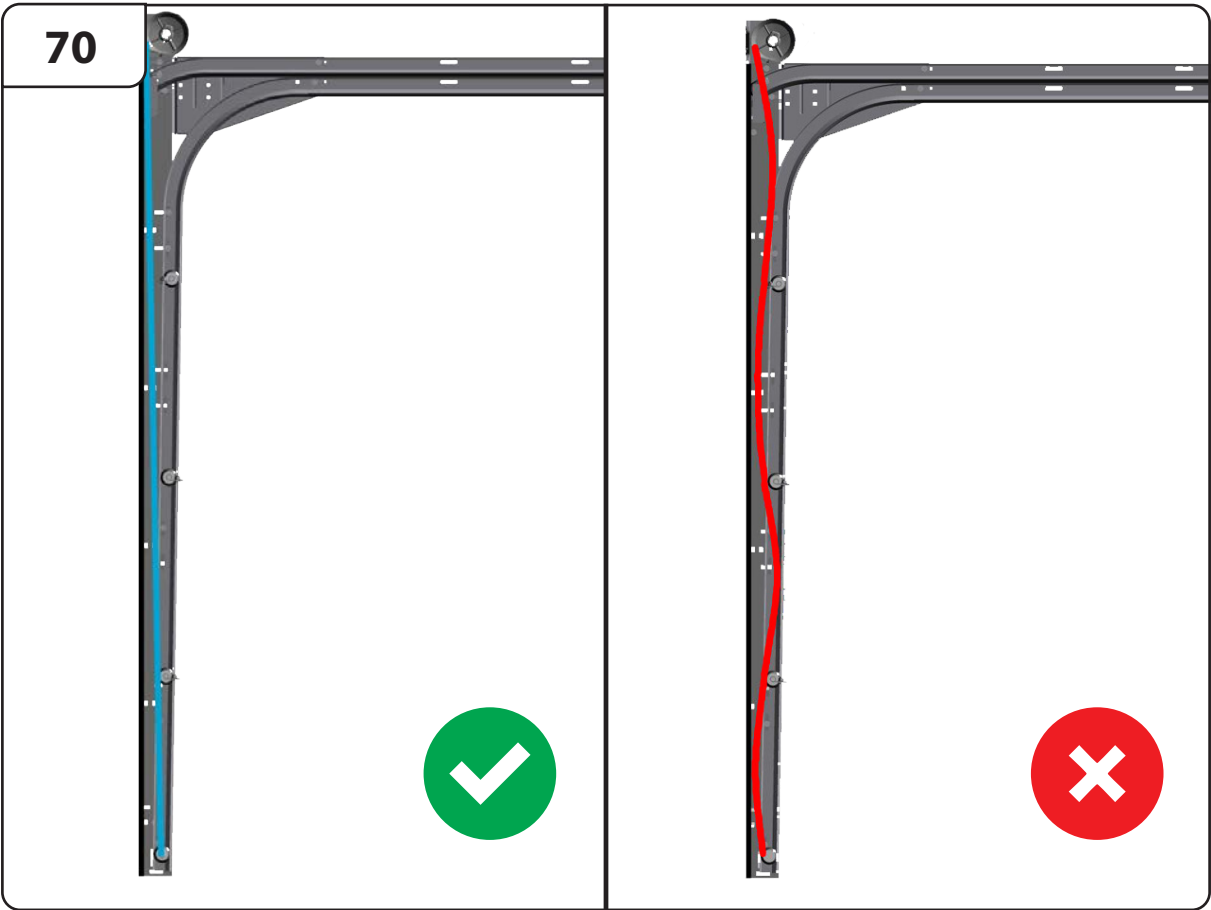


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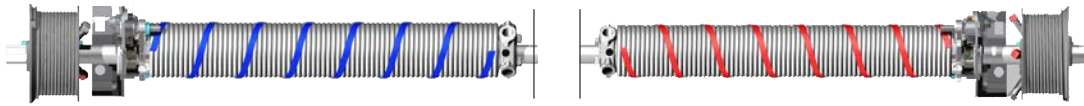


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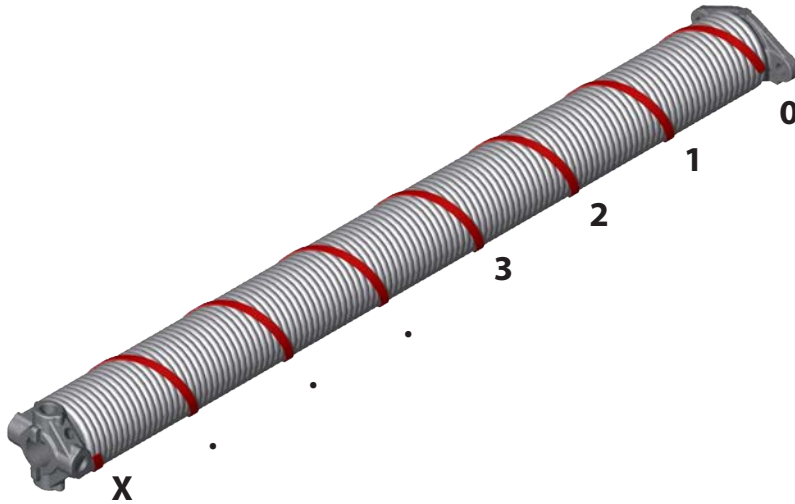




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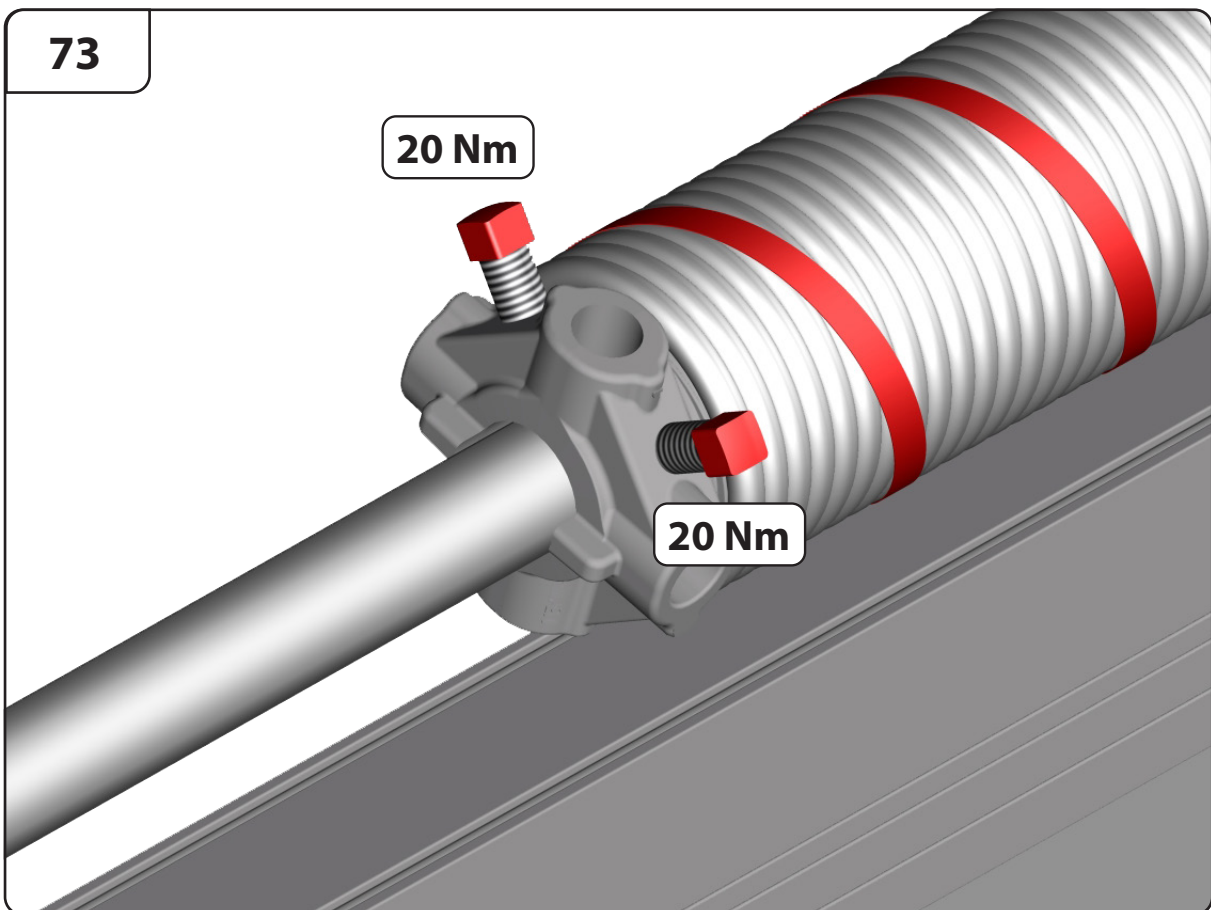


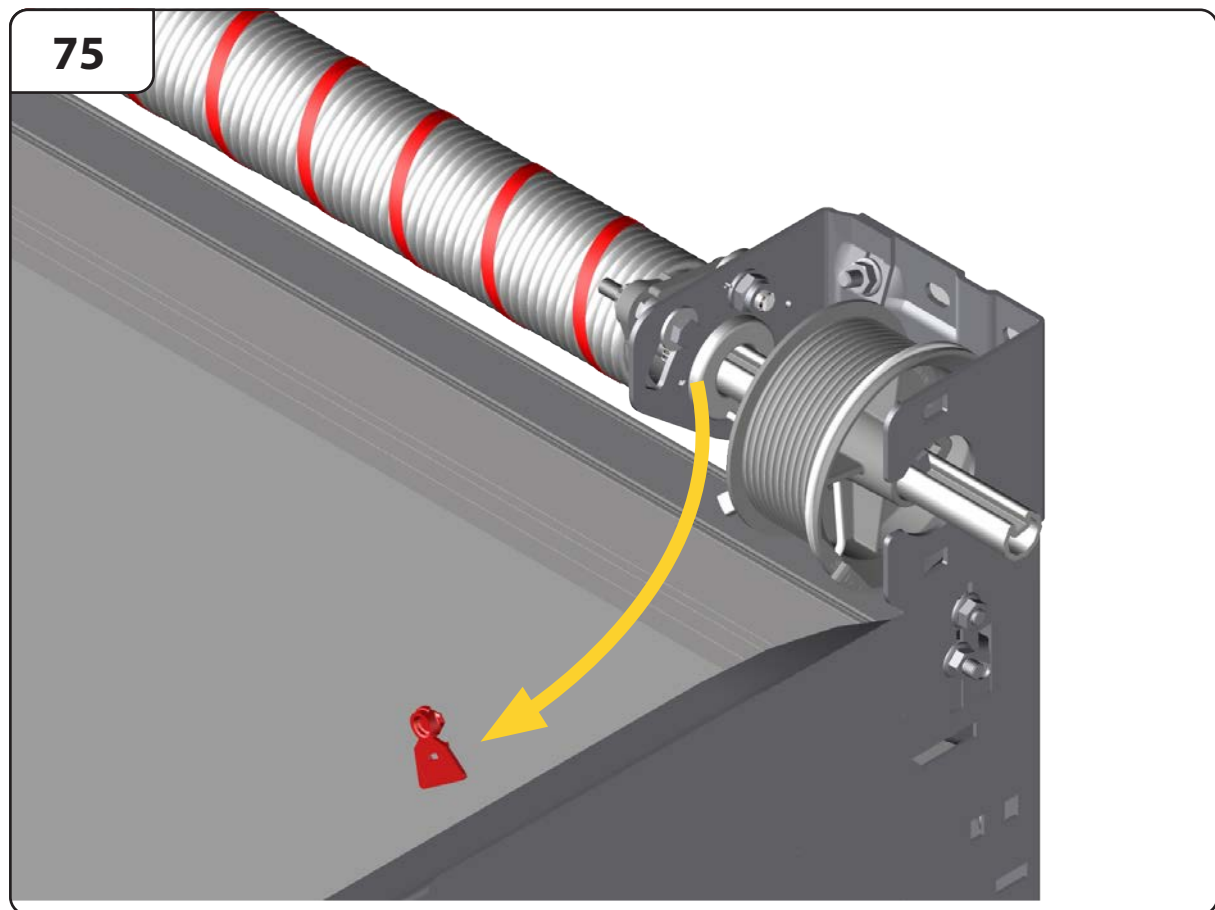
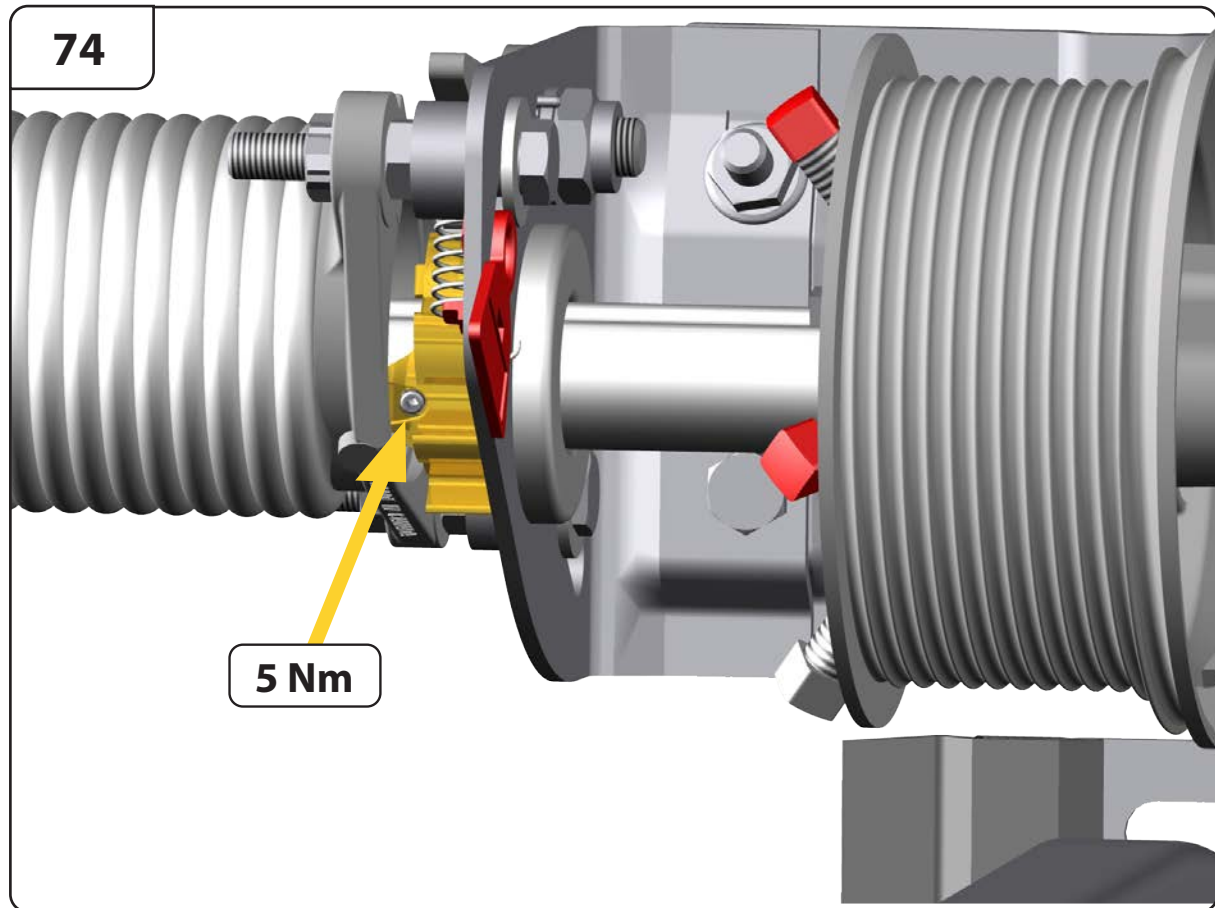
$$X = X$$



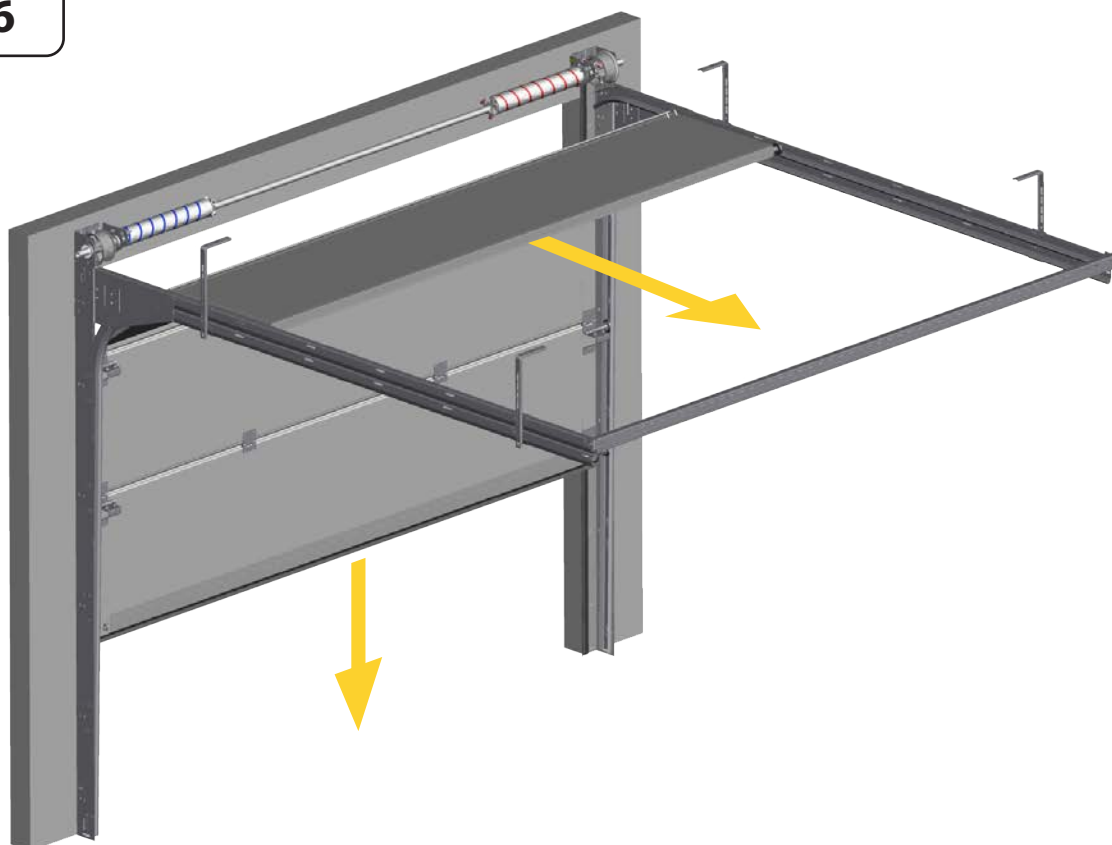
DH	X
2000	6.8
2125	7.1
2250	7.5
2375	7.9
2500	8.2
2625	8.6
2750	9.0
2875	9.4
3000	9.7

73

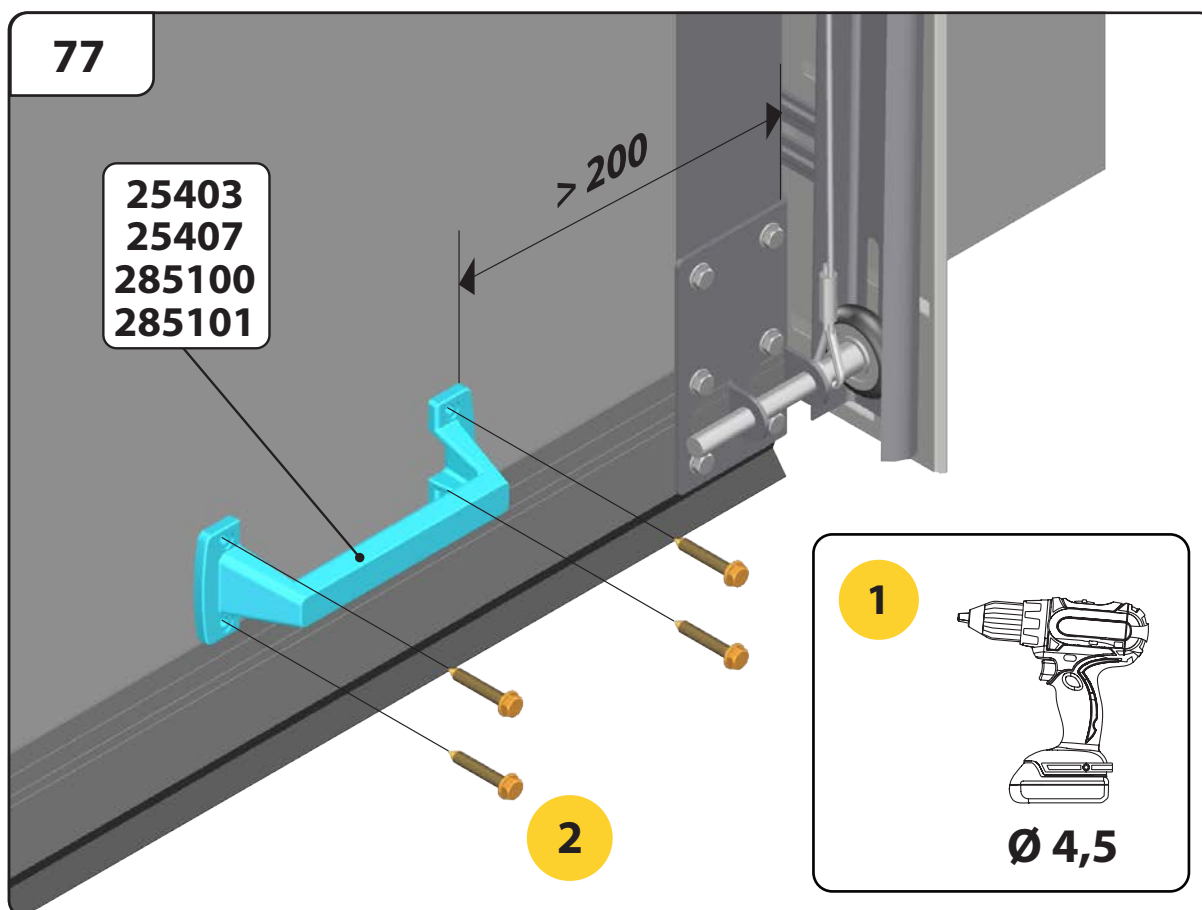




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9. Handover

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

9.1 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.

10. Electric operator (optional)

Mount the operator according to 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.

10.1 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.

11. Disassembly

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

11.1 Disposal

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

Please consult your local authorities on this matter.

12. 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 |

Notes

This image shows a single page of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Notes

[illegible]

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