

NA VRATECH ZÁLEŽÍ



Montážní návod
Installation Manual
Montage Anleitung

Dock Door VL

TJIMI
DORE





VÝROBA GARÁŽOVÝCH A PRŮMYSLOVÝCH VRAT




Contents

- 1. Symbols.....2
- 2. General warnings2
- 3. Safety requirements2
- 4. Terms and conditions.....3
- 5. Guidelines3
- 6. Fixing material building3
- 7. Trackset assembly.....3
- 8. Panel assembly.....3
- 9. Application Range4
- 10. Handover4
- 11. First use.....4
- 12. Electric operator (optional)4
- 13. Operator settings4
- 14. Disassembly.....4
- 15. Disposal.....4
- 16. Maintenance5
- 17. Warnings5
- 18. Replacements of Parts.....6
- 19. Supplier6
- 20. System Overview6
- 21. Tools7
- 22. Fasteners.....8
- 23. Installation.....9

1. Symbols

-  Danger / Attention
-  Look / Check
-  Consult manual
-  Mandatory step

-  Optional step
-  Manual operation
-  Electrical operation
-  Chain hoist operation
-  Alternative step
-  Door Processing Document

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 industrial dock door; this may be supplemented by other manuals, for instance the spring break device manual and operator manual (if applicable.)
- This industrial 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, near to the industrial door.
- Subject to technical changes, without written notice.

3. Safety requirements


- This industrial door 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, especially cables and 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 installation company and/or qualified personnel.
- Make sure there is enough light.
- Only use appropriate tools, especially when tensioning the torsion springs.

4. 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

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 the Technical File.

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 are according 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 Industrial Door System 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.

Door weight for roofload: 510 N/m²
Using doorblads between 7-14 kg/m²


7. Trackset assembly

When you received a trackset kit you can skip this section. When you build your own trackset follow next construction guideline:

Drilling:

-  Use M8 bolt (14010 or 14023) and nuts (14022 or 14013) every 650 mm (max.) between below connections, predrill Ø8,5mm:


Vertical Trackset: connection between, Vertical Angle 290030-series and Track 22000-series.
Horizontal Trackset: connection between, Curve 215091-series and C-track 220016-series.

 Connection between vertical angle 290030-series and connection brackets 235300 - 235307

Use 1 M8 bolts / nuts (as above) between track and connection bracket and 1 M8 bolts / nuts (as above) spread out between Vertical angle and connection bracket.

More information see: *Technical Production Book*


Riveting:

-  Minimum rivet size: 5mm, every 650 mm (max.) between below connections.
- Rivets need to fixed in accordance with the instructions / manual of the rivet equipment.


Vertical Trackset: connection between, Vertical Angle 290030-series and Track 22000-series.
Horizontal Trackset: connection between, Curve 215090-series and C-track 220016-series.

Connection between vertical angle 290030-series and connection brackets 235300 - 235307.

Use 1 rivet (as above) between track and connection bracket and 2 rivets (as above) spread out between Vertical angle and connection bracket.

 More information see: *Technical Production Book*

8. Panel assembly

 The panels need to be assembled according the *Industrial Panel Assembly Manual*

9. Application Range

This hardware set has been developed for commercial use

Maximum door width	3200 mm
Maximum door height	3100 mm
Maximum door leaf weight	130 kg
Maximum temperature range outside*	-20 °C / +50 °C
Relative humidity	5 - 90%

* Big differences in temperature between the inside and outside can cause deflection in the panel sections (bi-metal effect). In particular dark colored 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.

10. Handover

Handover the following documents to the end user:

- This manual (assembly, maintenance and disassembly)
- User manual
- Service logbook
- Declaration of Performance (DoP)
- Declaration of Conformity (DoC), only in case of a Power operated door
- Inform the end user how to handle in case of malfunctions

11. First use

The first use of the Industrial Door System has to be carried out by the installer. After that ALL users need to be instructed. For more information refer to the user manual.

12. 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 280004) 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. In the event that the tracks are too short, a longer horizontal track kit should be used.

13. 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.

14. Disassembly

Disassembly should be only carried out by an qualified industrial door company / installer. The door should be disassembled in the reverse sequence to the assembly manual.

15. Disposal

All parts of this Industrial Door System can be easily disposed of. Please consult your local authorities on this matter.

Procedure:

- Release tension of the torsion springs!
 - Insert the 1st tensioning bar into the tensioning head
 - Keep a good grip on the 1st tensioning bar and carefully undo the bolts on the tensioning head and transfer the spring tension.
 - Now place the 2nd tensioning bar in the next hole of the spring plug and carefully release the spring. The spring is released from top to bottom.
 - Again, fit the 1st tensioning bar to the spring plug and release.
 - Repeat steps 3-4 until the spring is released.
 - Repeat steps 1-4 for the other spring (springs).

- Remove the electrical operator, according the manual of the electrical operator
- Release the bolts in the cable drums and remove the steel cables from the cable drums. Be careful for any remaining tension in the cables, check if the cables are slack!
- Remove the power-unit. Do this by first removing the coupler and then carefully sliding both shaft halves out of the bearing plates. Be aware that components may slide along the shaft!
- Remove the panel sections from top to bottom. Achieve this by removing the roller holders and centre hinges.
- Remove the horizontal trackset
- Remove the vertical trackset

16. Maintenance

In accordance with EU standards, Industrial door systems should be maintained and checked regularly, from the first time of use, based on the indicated service by the installer. Maintenance needs to be recorded written. **Maintenance should be only carried out by an qualified industrial door company / installer.**

17. Warnings

Brackets and other components which are attached to Torsion Springs and Cables are under extreme tension. Tensioned springs carry a high tension; always be very careful, and make sure the tensioning bar (# 12025) are well maintained and use the right side of the bar (depends on used spring plug). When checking the industrial door system, always disconnected the electrical main power supply and make sure that it is blocked against re-engaging without you knowing it.

Directly after installation (By Installer):

- Lubricate the running part of the tracks (advice: PTFE)
- Lubricate bearings and the shaft of the rollers (advice: PTFE)
- Lubricate pins of the hinges from intermediate- and side-hinges (advice: PTFE)
- Lubricate the bearing of the shaft (advice: PTFE)
- Lubricate sealing rubbers (advice: special rubber grease or vasaline)

After 3 months (By Installer):

- Check balancing system / Re-tensioning springs (relaxation springs)
- Complete visual inspection

Every 6 months (By User):

- Check side seals, Top seal and Bottom Seal on damage or wear and tear
- Lubricate the running part of the tracks (advice: PTFE)

- Lubricate bearings and the shaft of the rollers (advice: PTFE)
- Lubricate pins of the hinges from intermediate- and side-hinges (advice: PTFE spray)
- Lubricate sealing rubbers (advice: special rubber grease or vasaline)
- Clean the panels (advice: shampoo for car cleaning with water), do not use aggressive detergents
- Wax the panels (advice: car wax)
- Remove dirt from the door and surroundings

Every 12 months or every 7500 door cycles (By Installer):

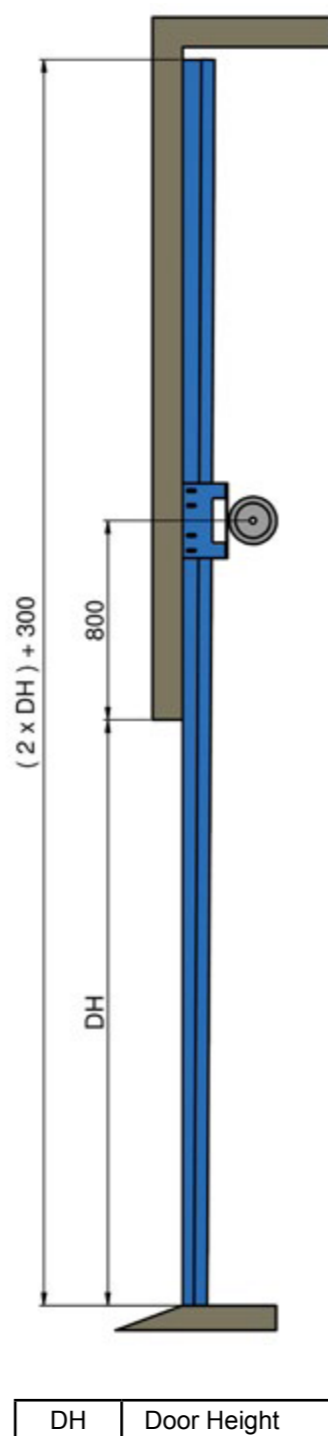
- Check the cables and the end connections from the cable on damages or wear and tear
- Check the cable connection points on bottom bracket or cable break device and Cable drum
- Check the spring break devices in accordance with separate manual
- Check the position of the ratched wheel
- Check the function of the catcher
- Check the bolt and screws connection of the SBD
- Check the Cable Brack Device in accordance with the seperate manual
- Check the function of the Cable Break Device
- Check position of the knife of the Cable Break Device
- Check the position of the hinge pin
- Check the balance of the door and adjust if needed / check the manual operation
- Check the hinges on breaking and wear and tear
- Check the Pulley system (if present) for damages or wear and tear
- Check or test the fixations of the springs to the spring plugs
- Check the rollers or damages or wear and tear and free moving space
- Check the closing forces of the main closing edge (Only if Electrical Operation an Not Deadman function)
- Check the suspension from the horizontal track to the ceiling
- Check the suspension profiles on breaking or damages
- Check the bolt and nut connection
- Check side seals, Top seal and Bottom Seal on damage or wear and tear
- Check the panels on damage, wear and tear
- Lubricate torsion springs, bearings of rollers, running parts of the track and bearing on the shaft

Every 24 months or every 15000 door cycles (By Installer):

- Check the cables and the end connections from the cable on damages or wear and tear
- Check the cable connection points on bottom bracket or cable break device and Cable drum
- Check the spring break devices in accordance with separate manual
- Check the position of the ratched wheel
- Check the function of the catcher
- Check the bolt and screws connection of the SBD

- Check the Cable Brack Device in accordance with the seperate manual
- Check the function of the Cable Break Device
- Check position of the knife of the Cable Break Device
- Check the position of the hinge pin
- Check the balance of the door and adjust if needed / check the manual operation
- Check the hinges on breaking and wear and tear
- Check the Pulley system (if present) for damages or wear and tear
- Check or test the fixations of the springs to the spring plugs
- Check the rollers or damages or wear and tear and free moving space
- Check the closing forces of the main closing edge (Only if Electrical Operation an Not Deadman function)
- Check the suspension from the horizontal track to the ceiling
- Check the suspension profiles on breaking or damages
- Check the bolt and nut connection
- Check the shaft on damages and wear and tear
- Check the connection of the trackset
- Check and re-fix the bolt of the coupler
- Check side seals, Top seal and Bottom Seal on damage or wear and tear
- Check the panels on damage, wear and tear
- Lubricate torsion springs, bearings of rollers, running parts of the track and bearing on the shaft

20. System Overview



18. Replacements of Parts

Only use Original DOCO spare parts!
Maintenance should be only carried out by a qualified industrial door company / installer.

After Spring Break:

See instructions separate manual (or download the manual: www.doco-international.com)

1. Replace the springs and the Spring Break Device
2. Check the shaft on damages and replace if necessary

After Cable Break:

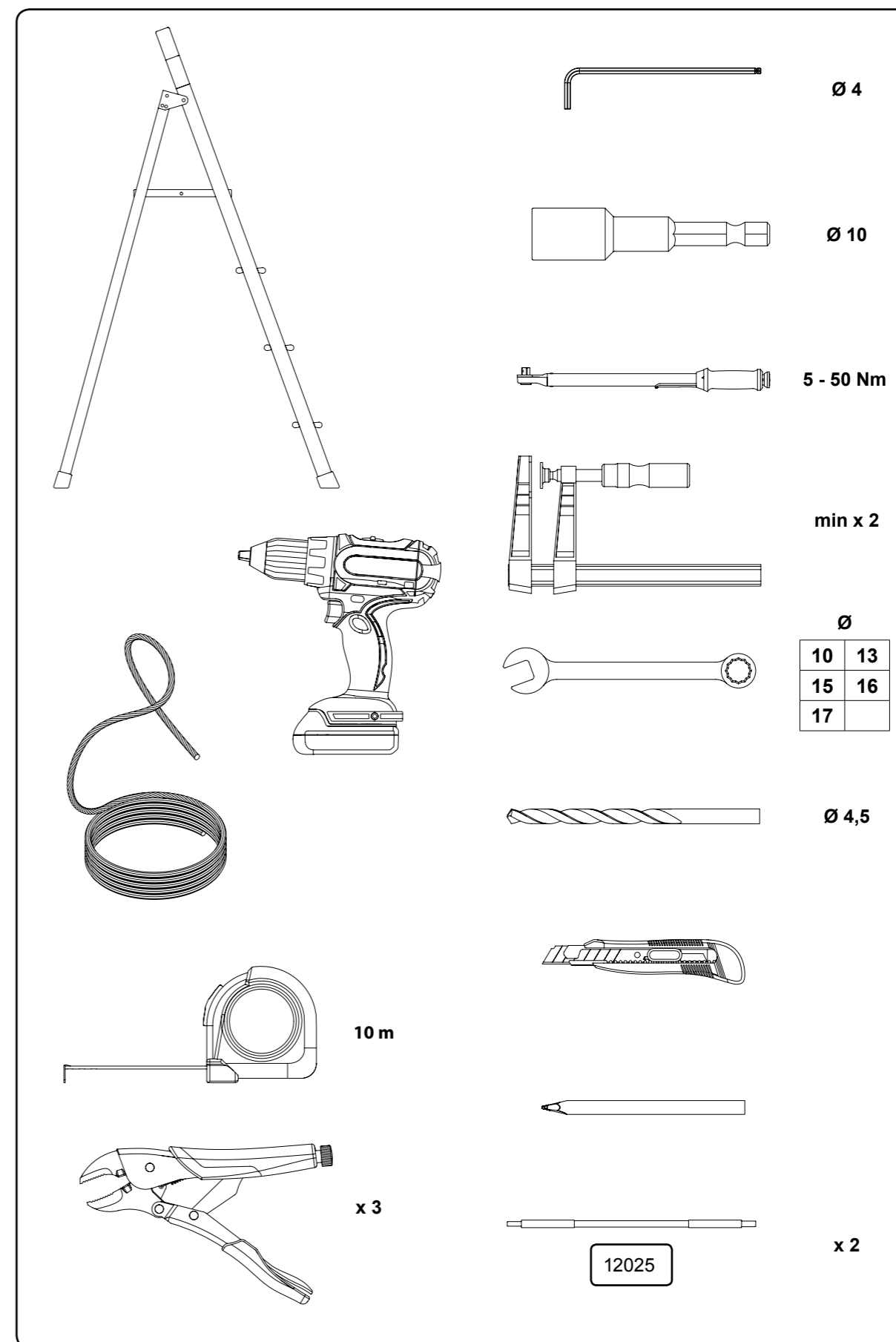
See instructions separate manual (or download the manual: www.doco-international.com)

1. Replace cable with connection
2. Replace the complete Cable Break Device
3. Check tracks and service or replace the tracks






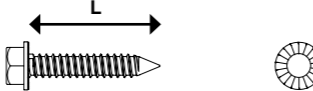

19. Supplier

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) 46452894
www.doco-international.com

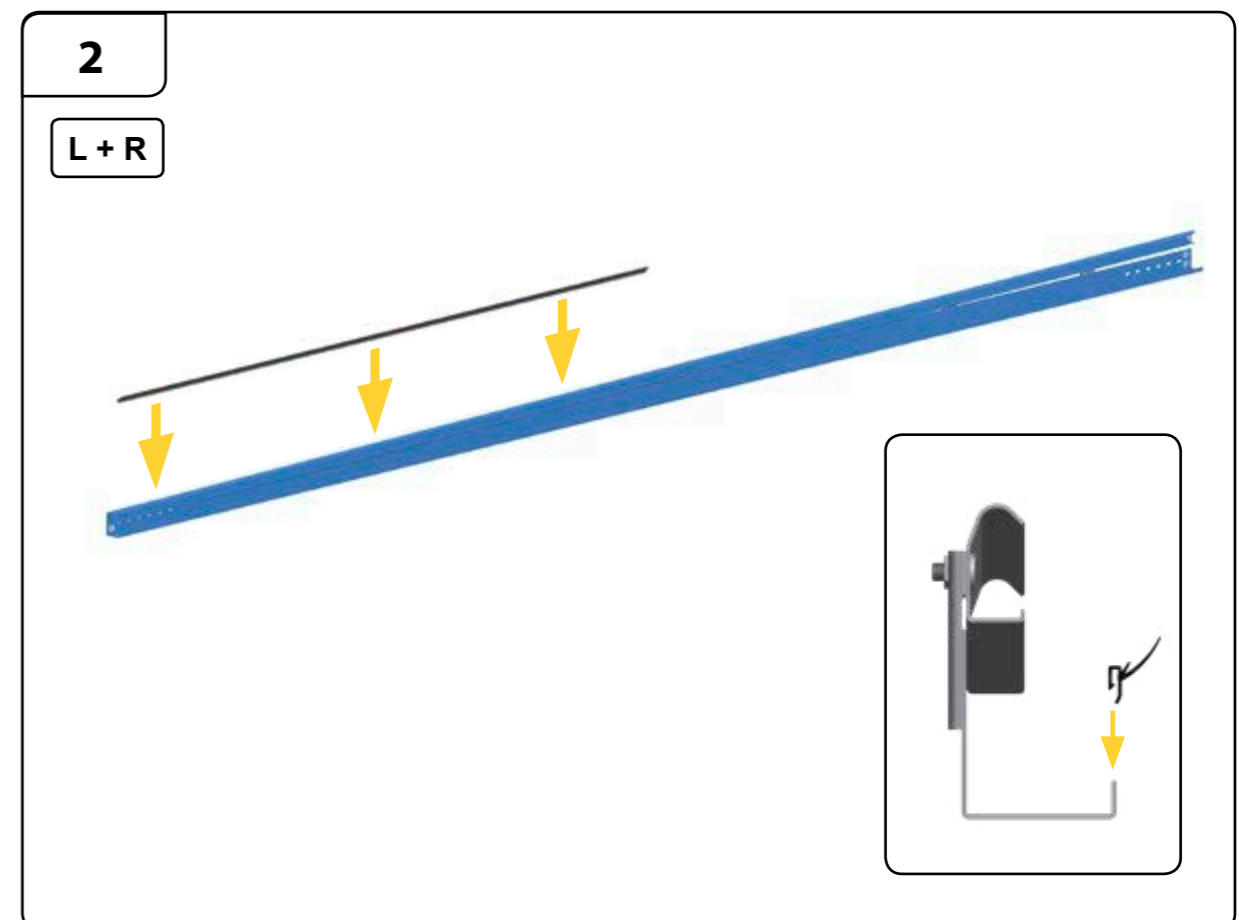
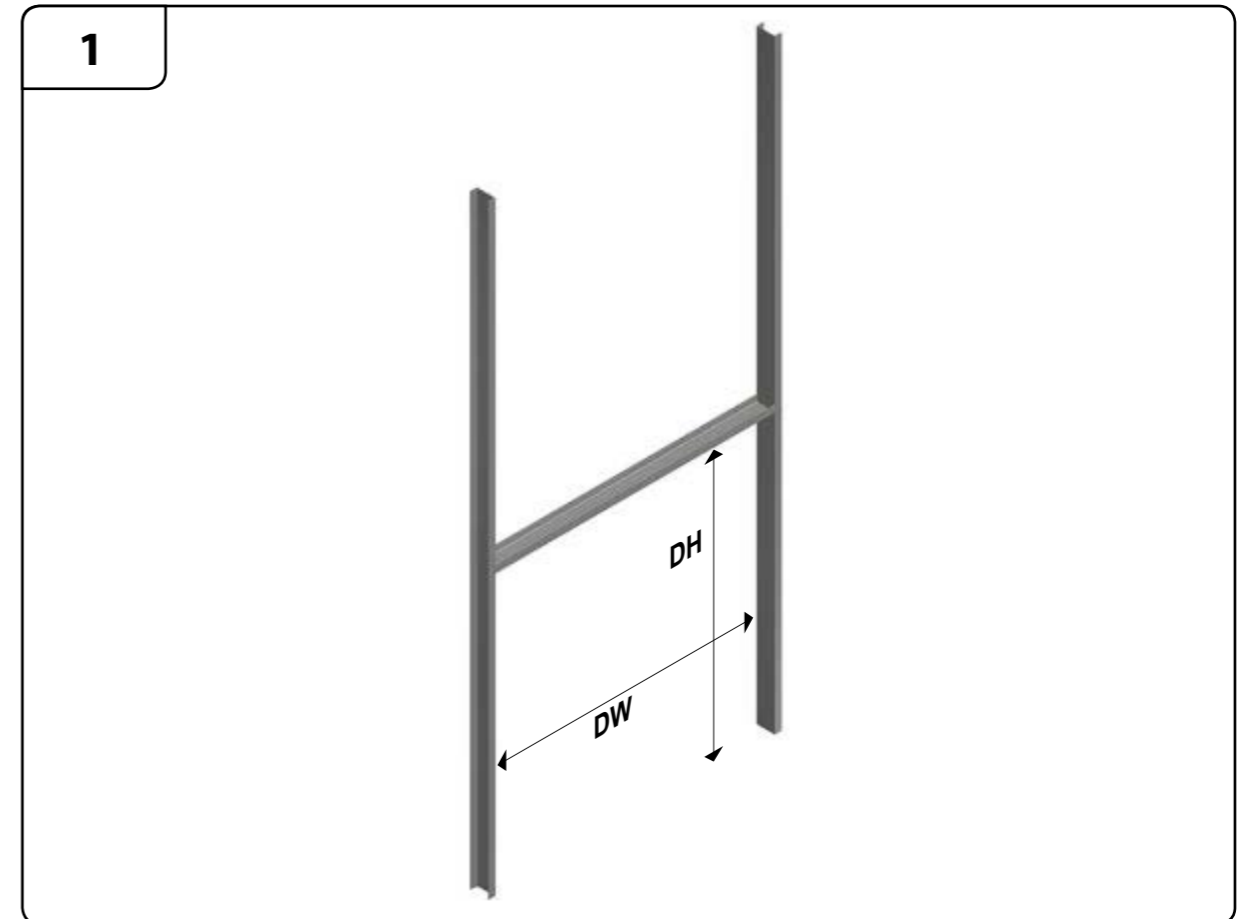
21. Tools

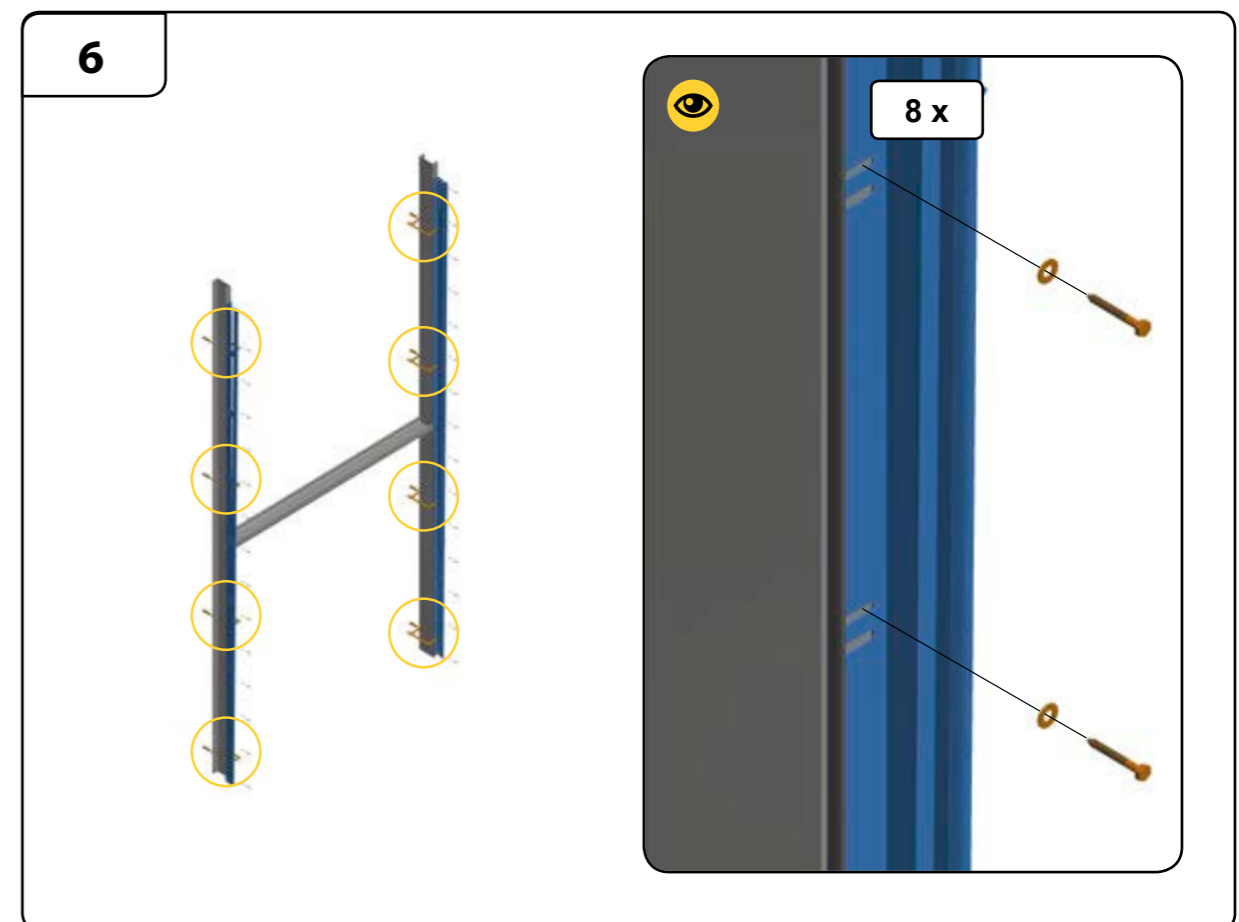
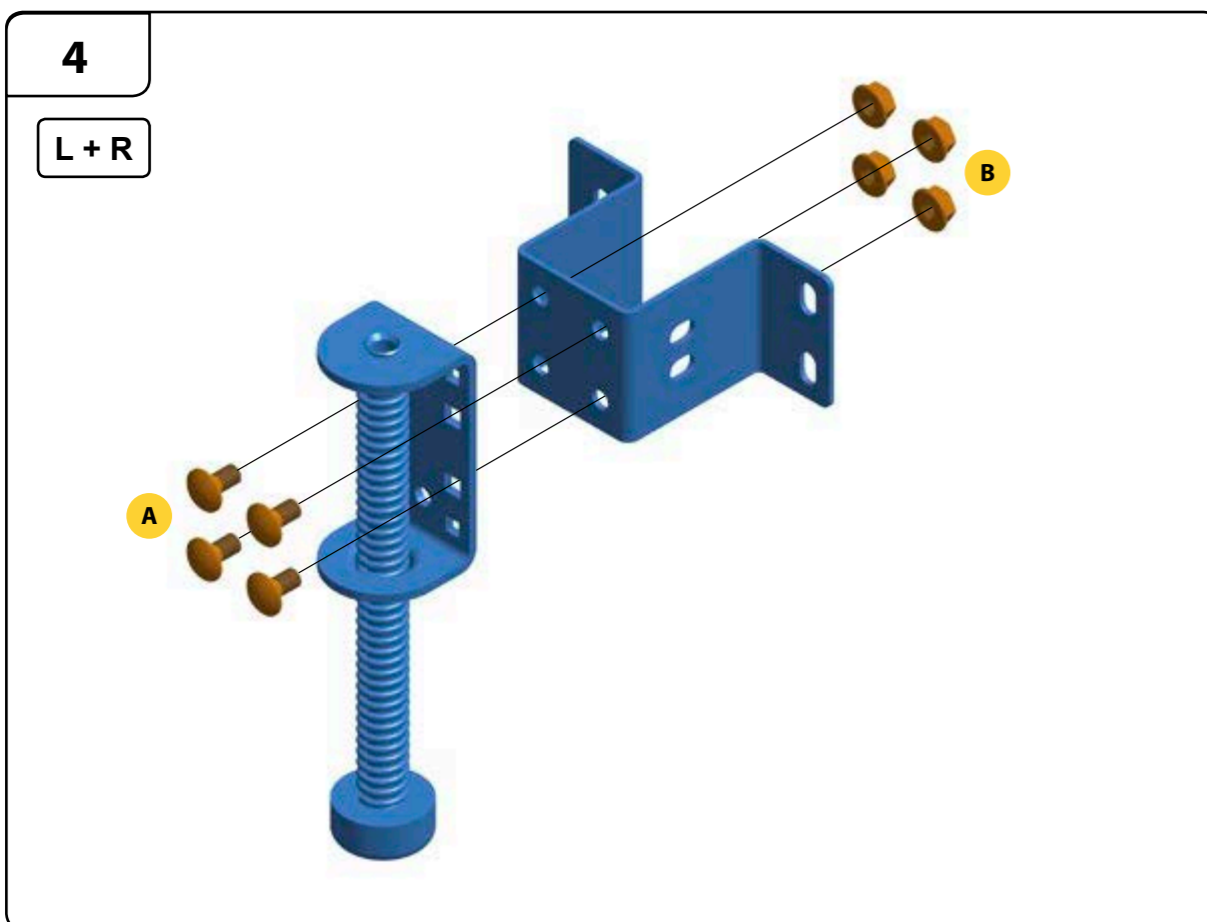
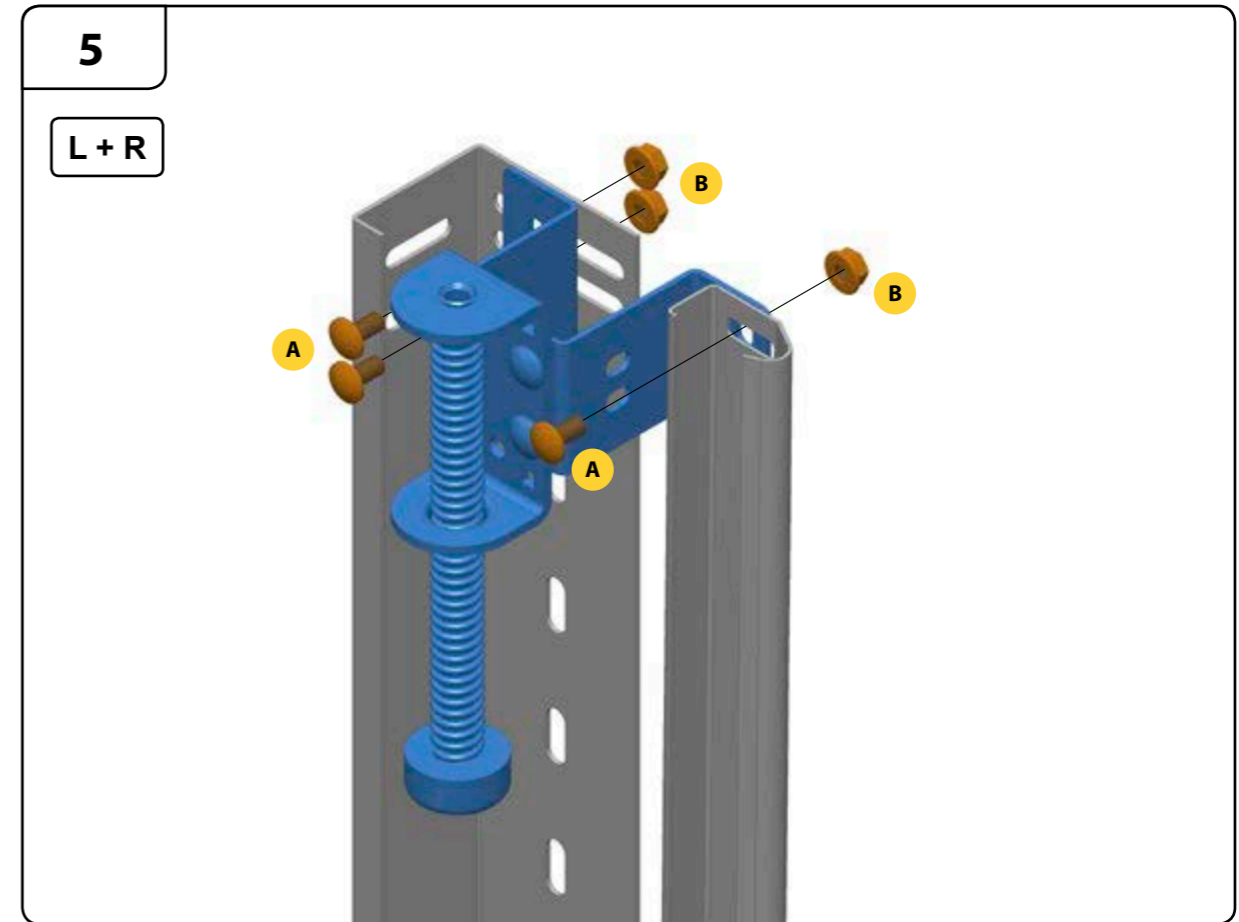
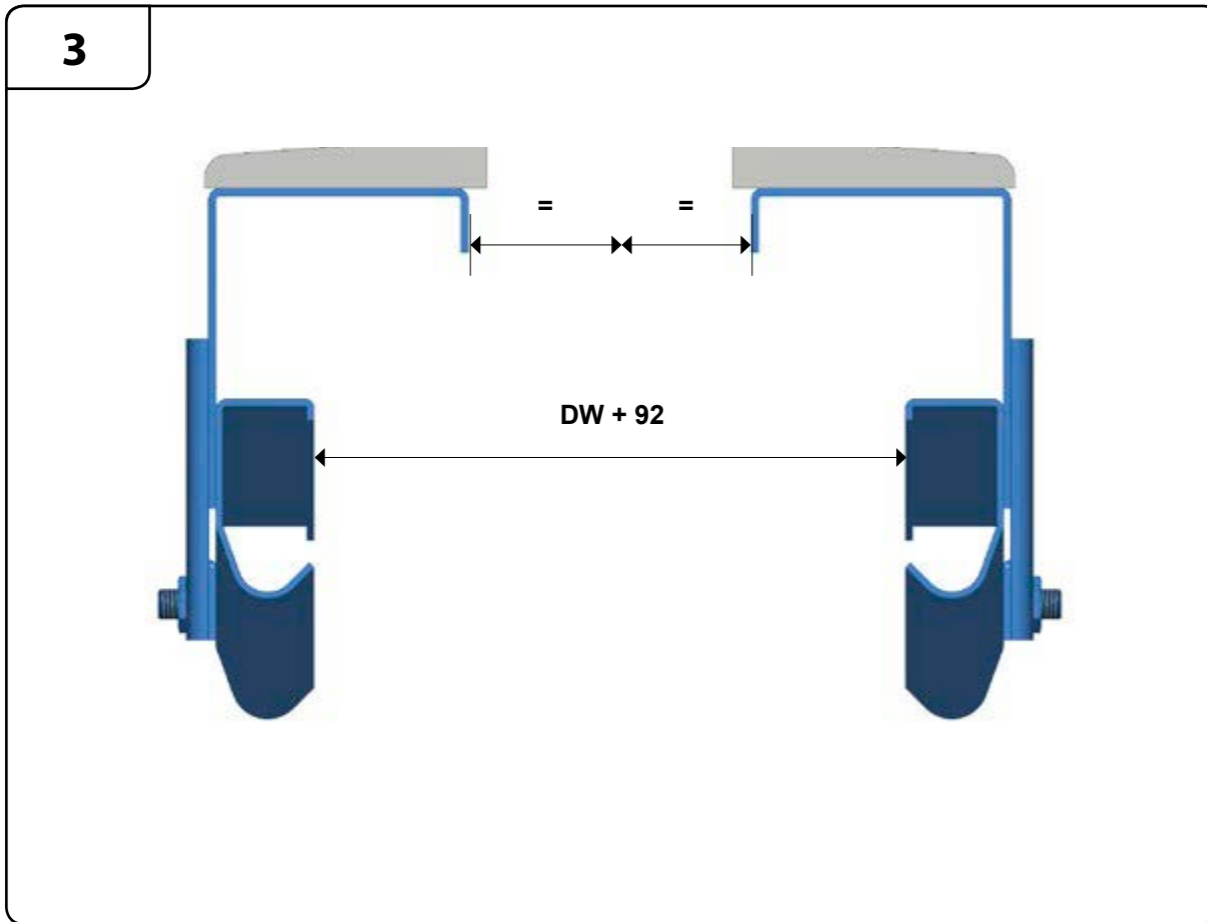


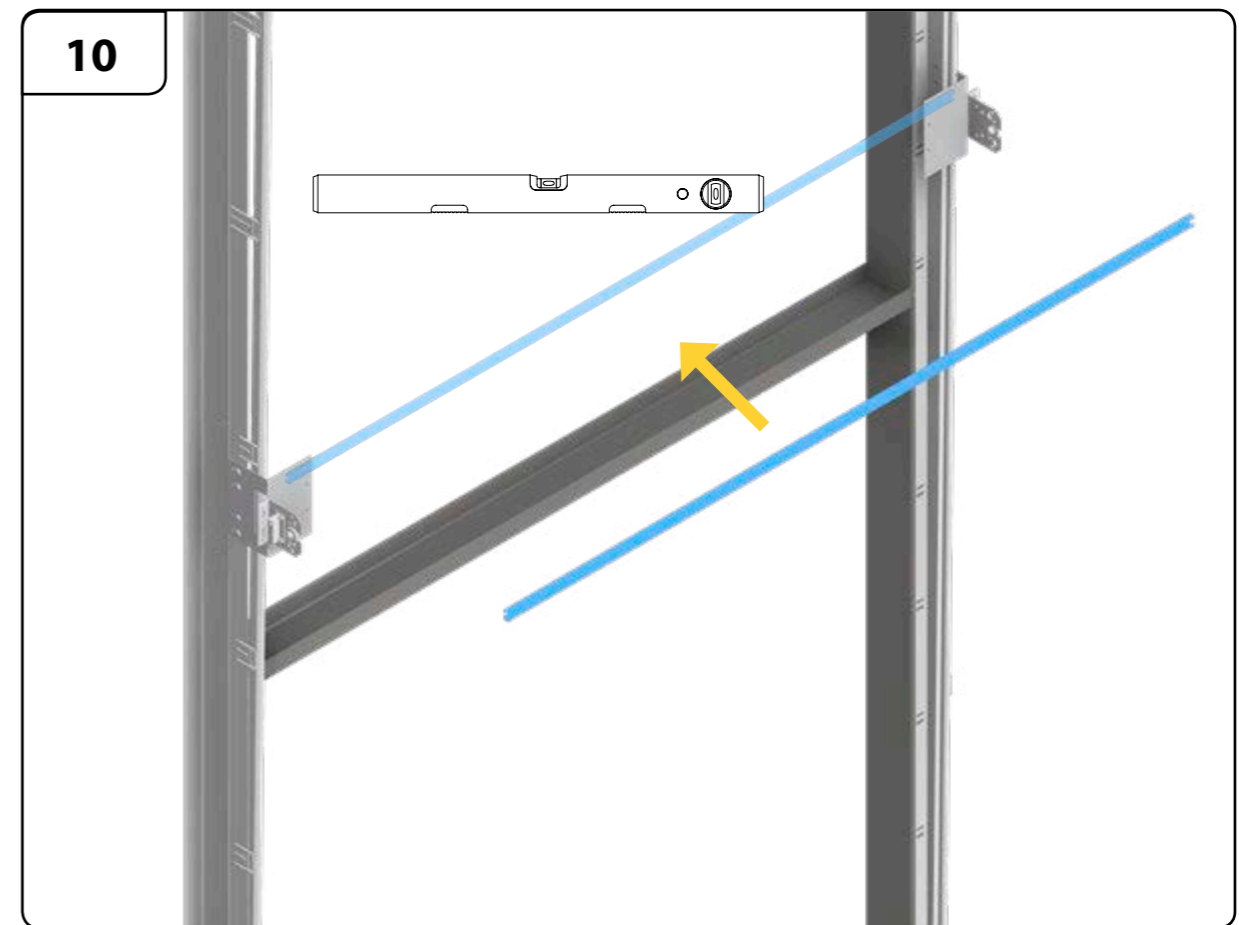
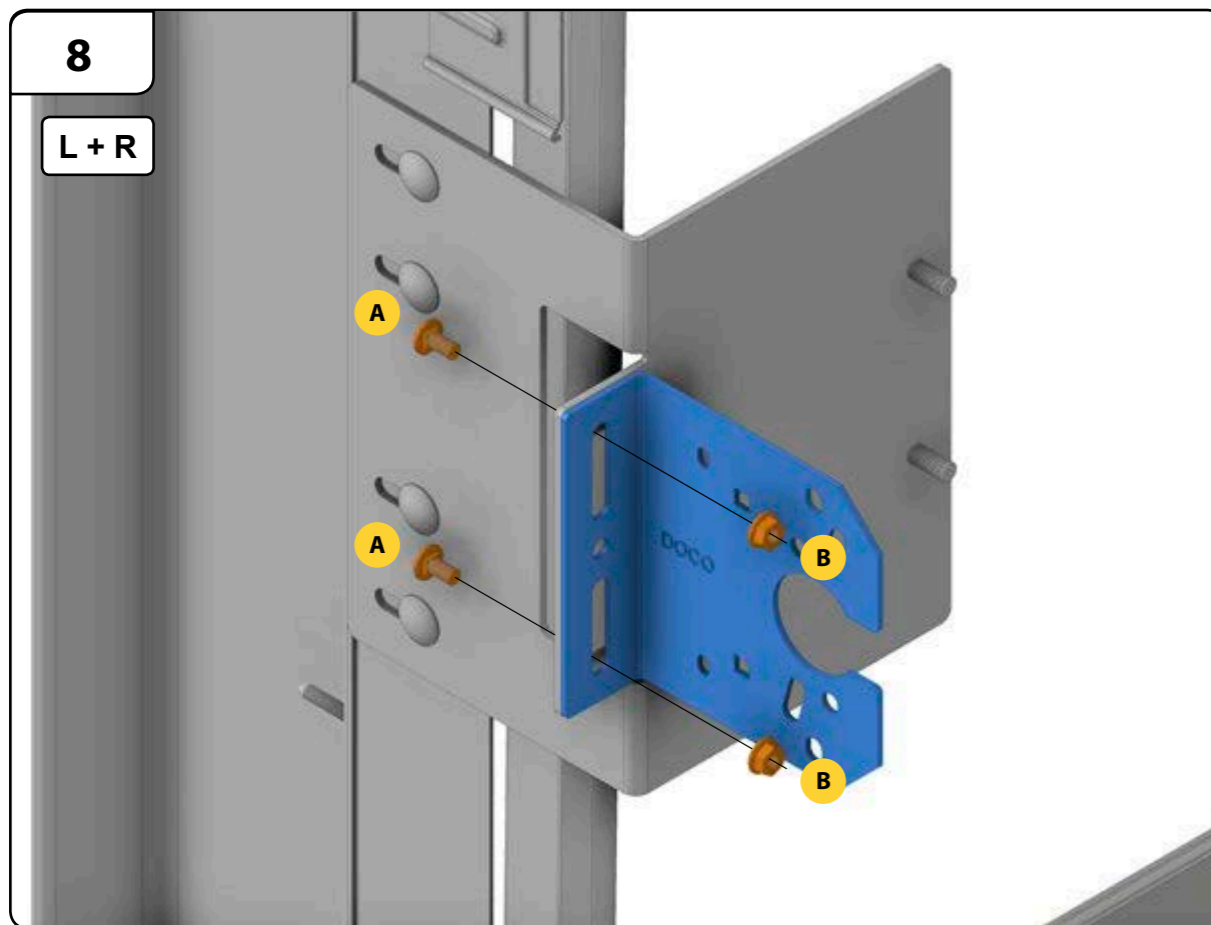
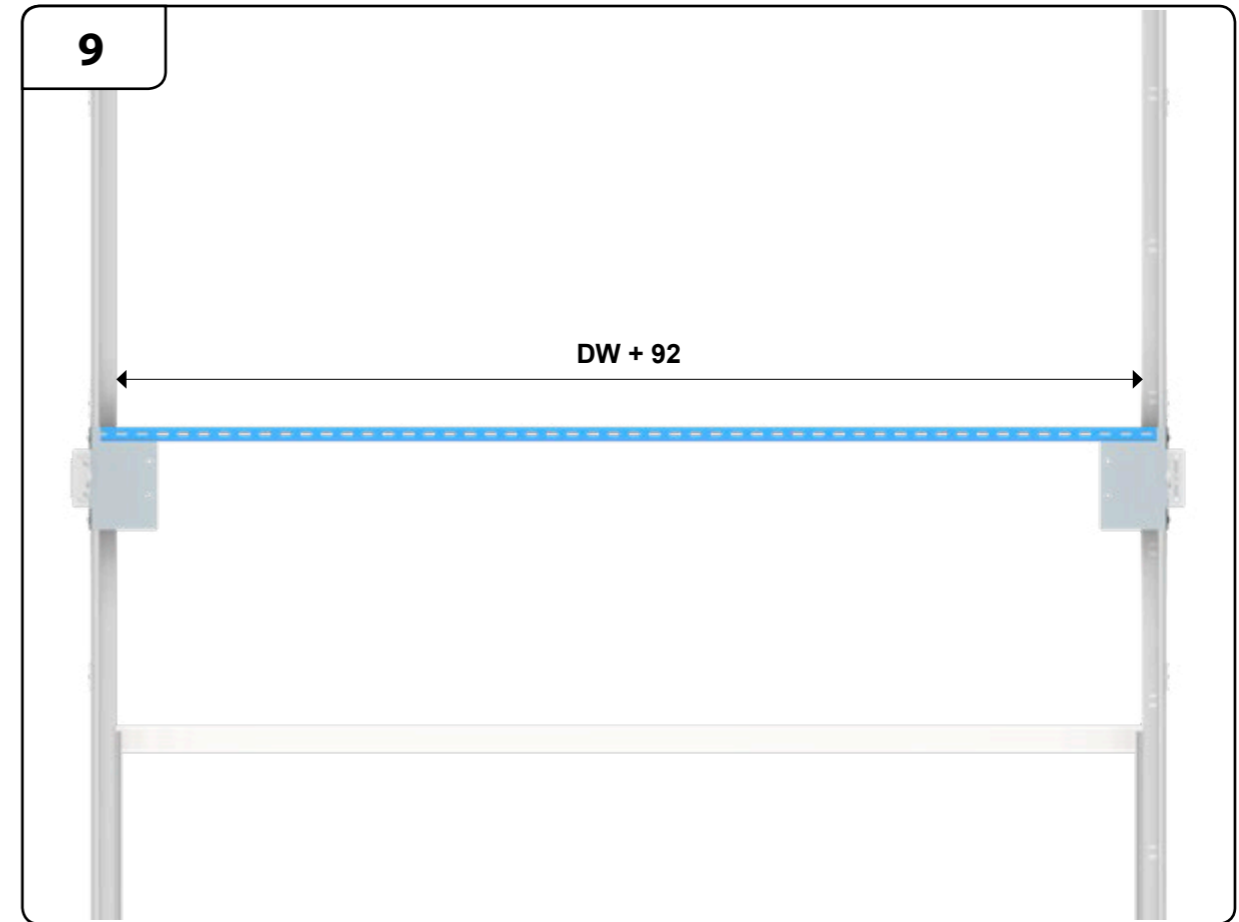
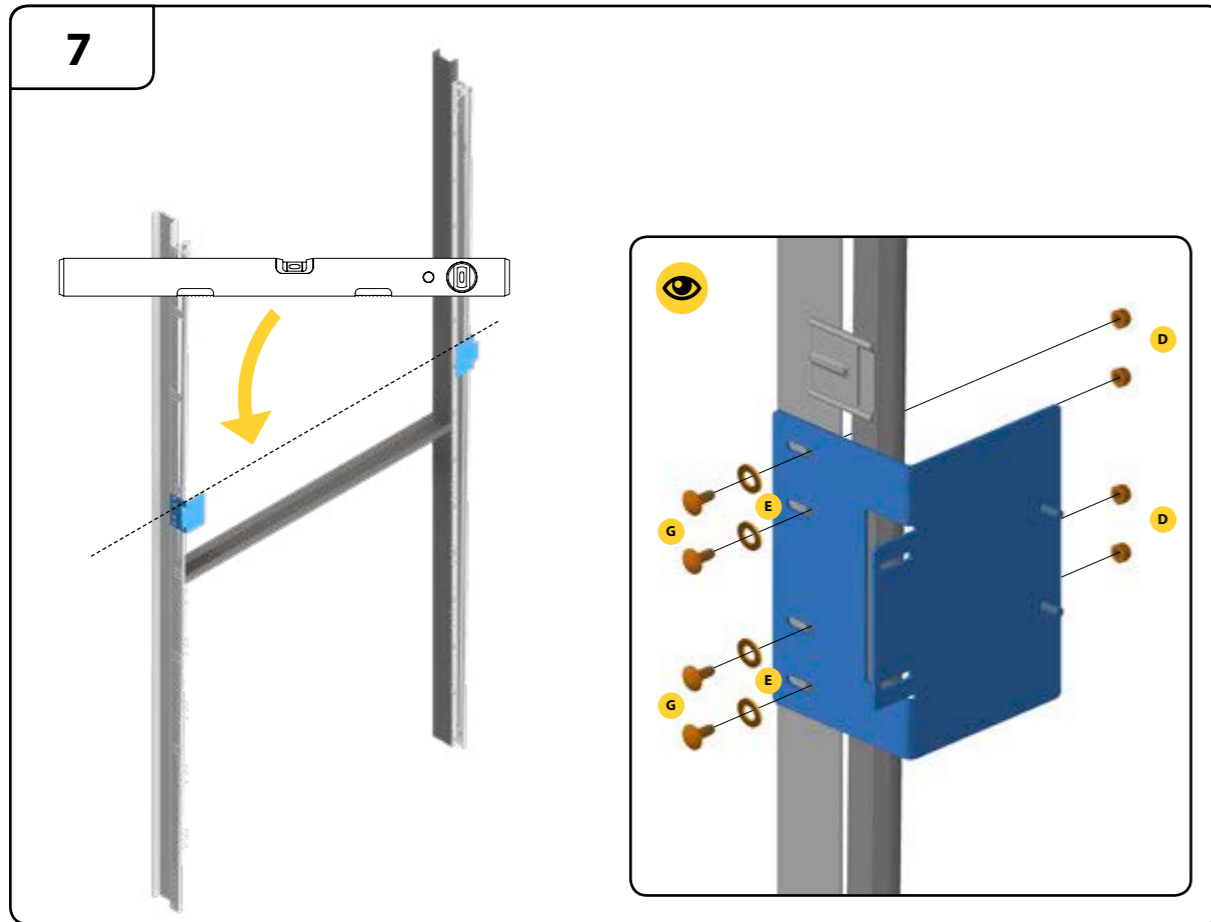
22. Fasteners

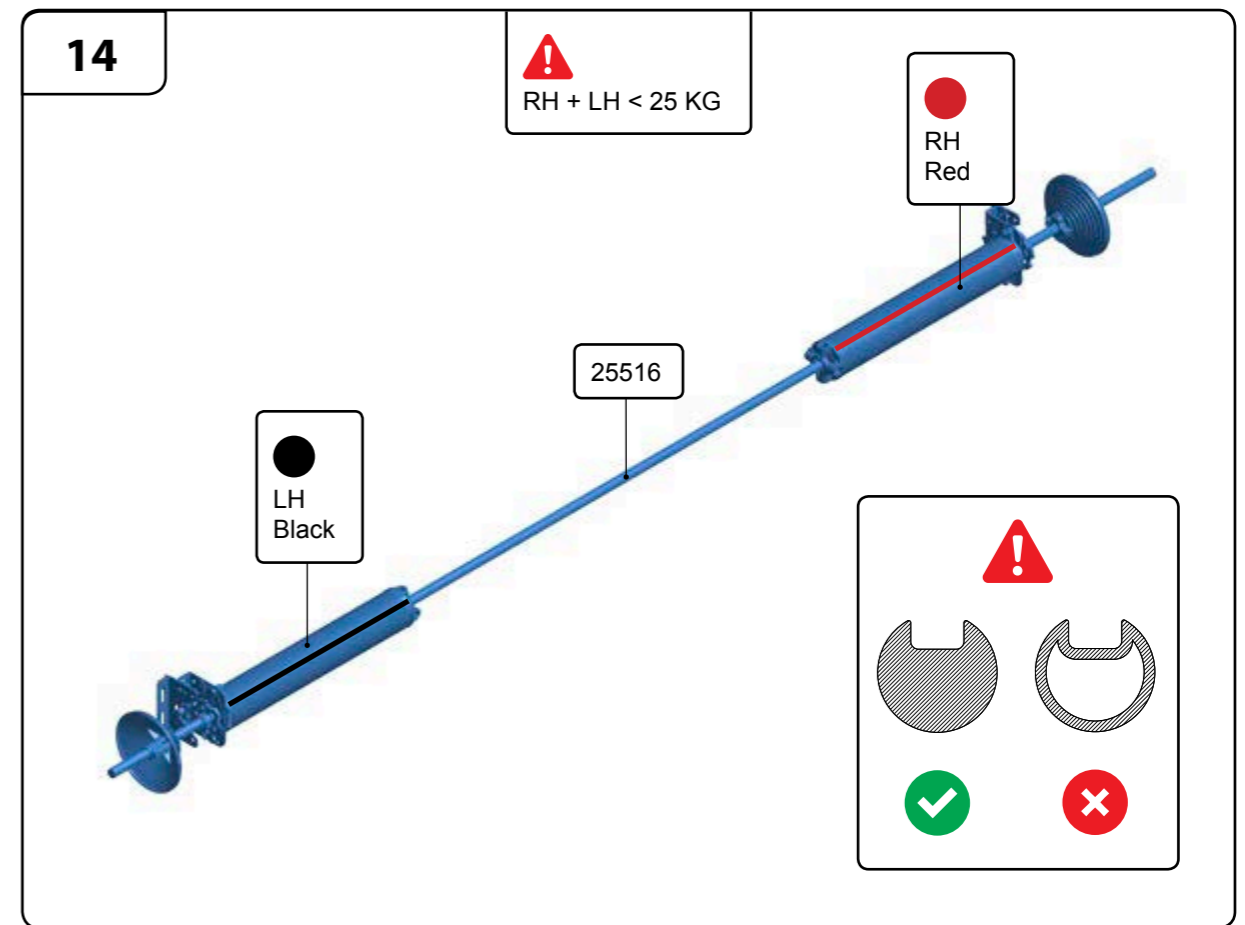
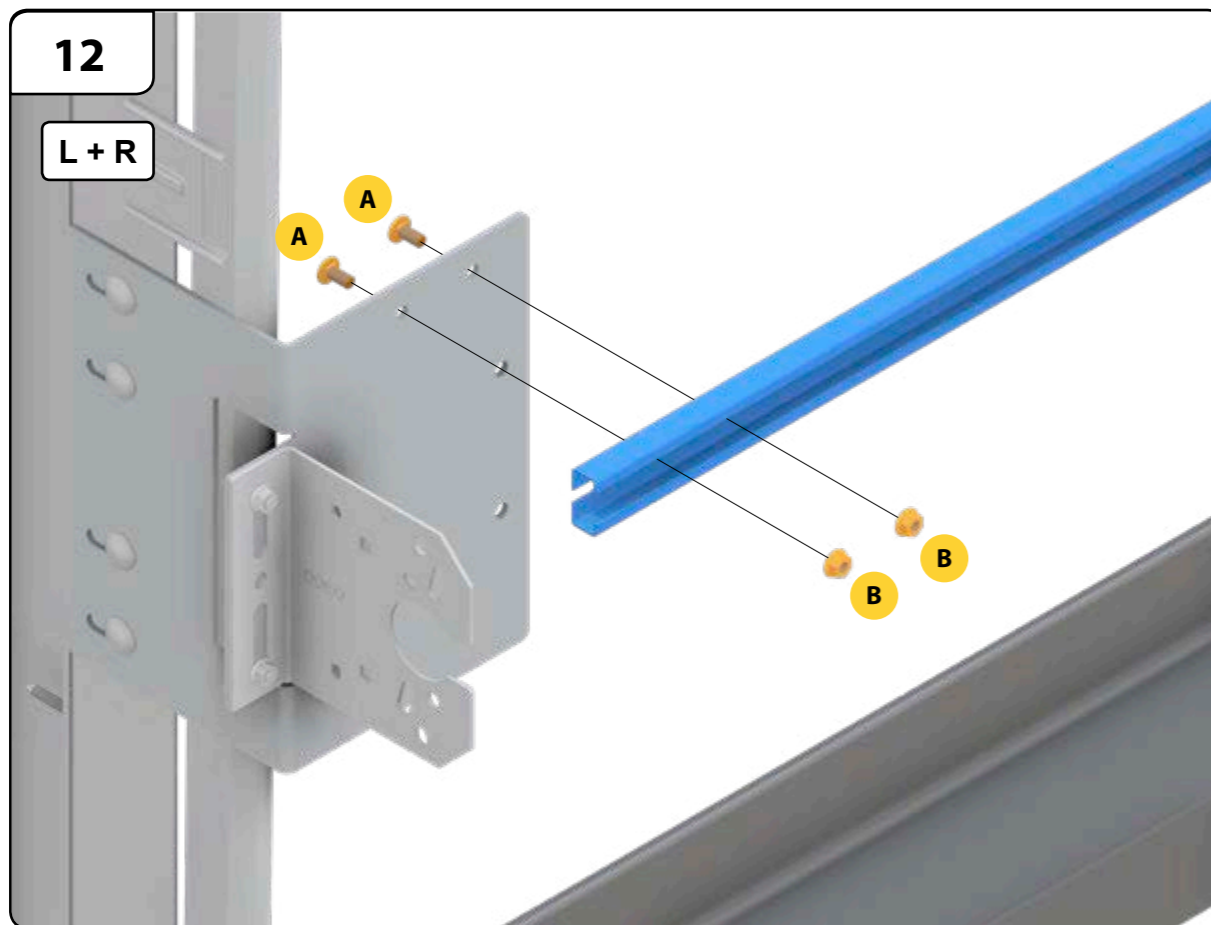
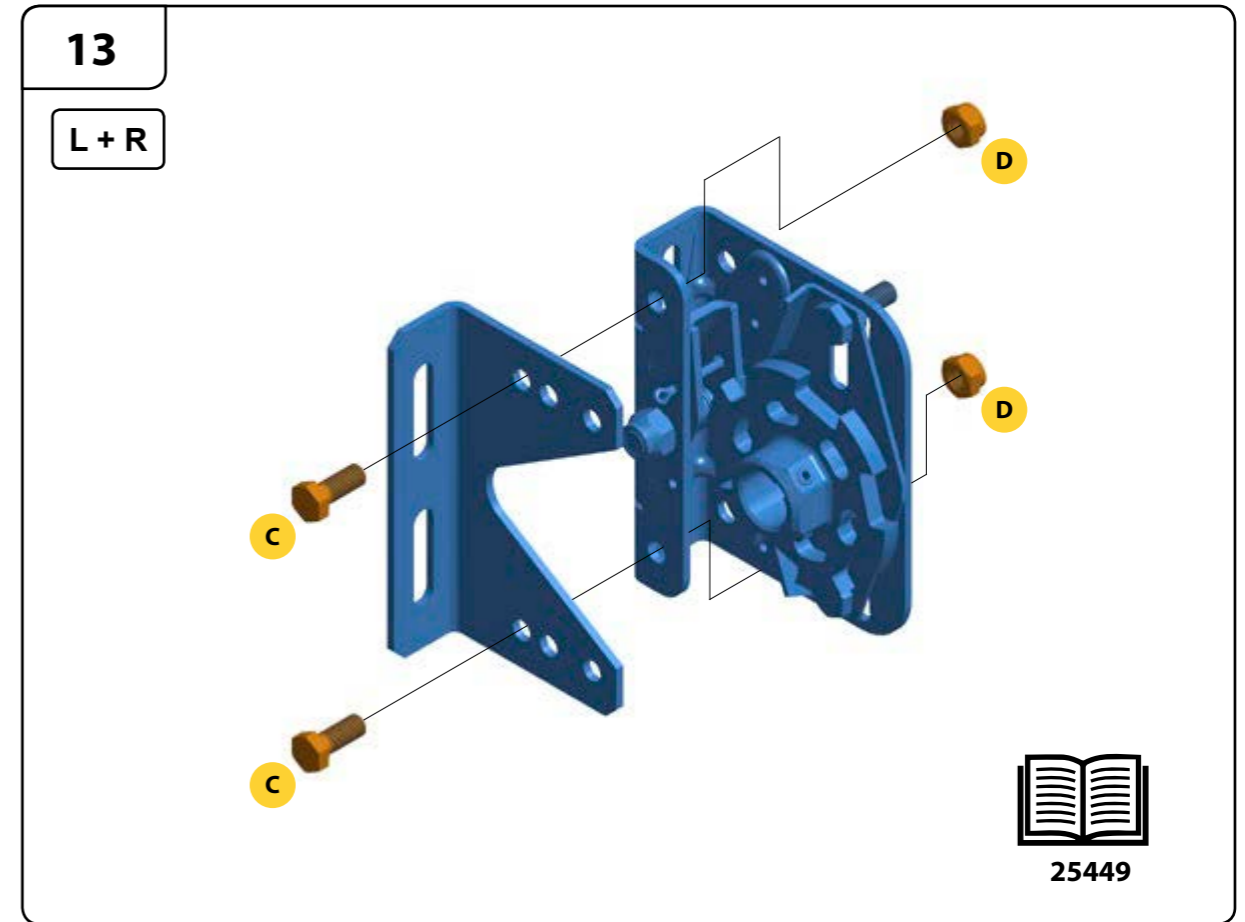
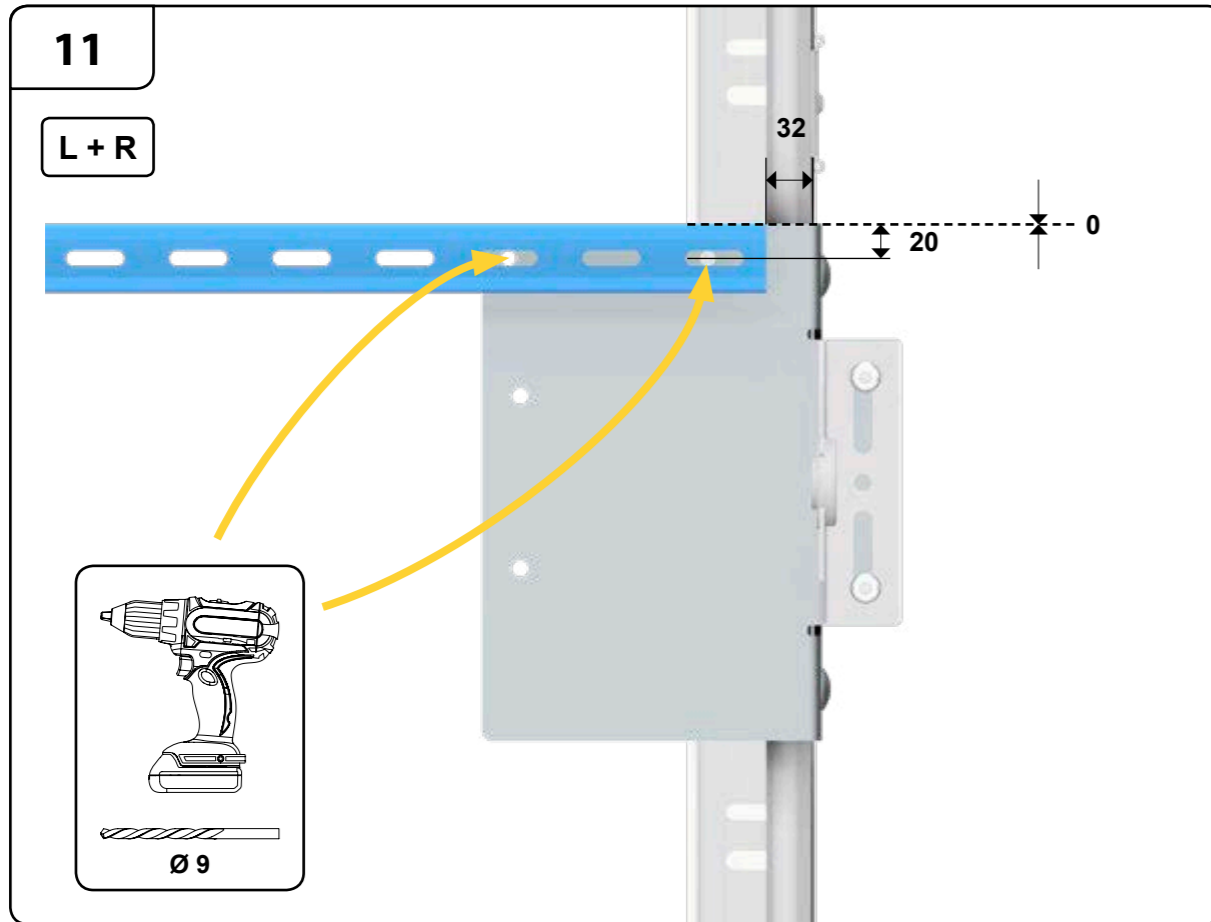
A	14023 M8 x 17 13 Nm	
B	14022 M8 13 Nm	
C	15098 M10 x 25 35 Nm	
D	14099 M10 35 Nm	
E	150130 M16	
F	\varnothing 6,3 10 Nm 14020 L=16 150002 L=25 14017 L=35	
G	150121 M10 x 25 35 Nm	

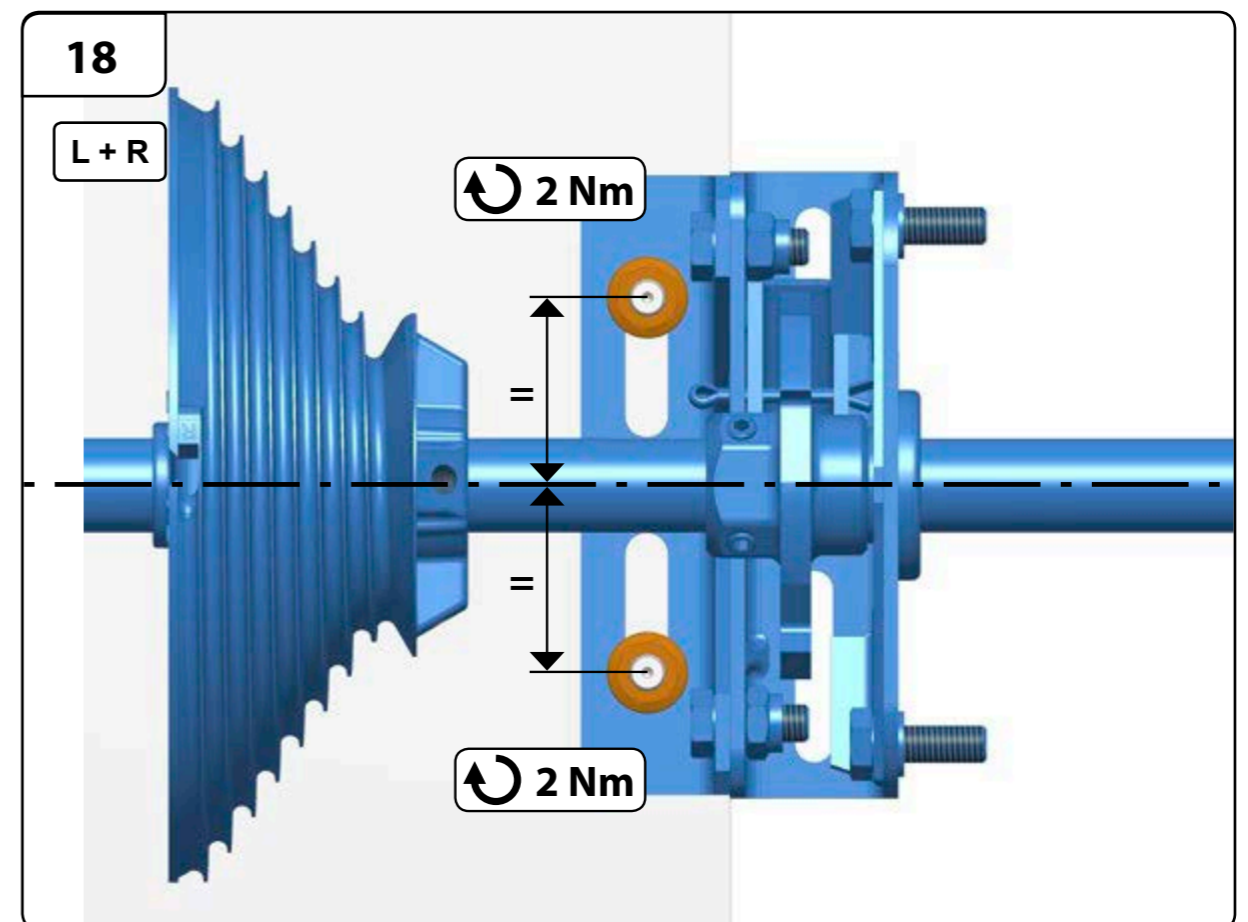
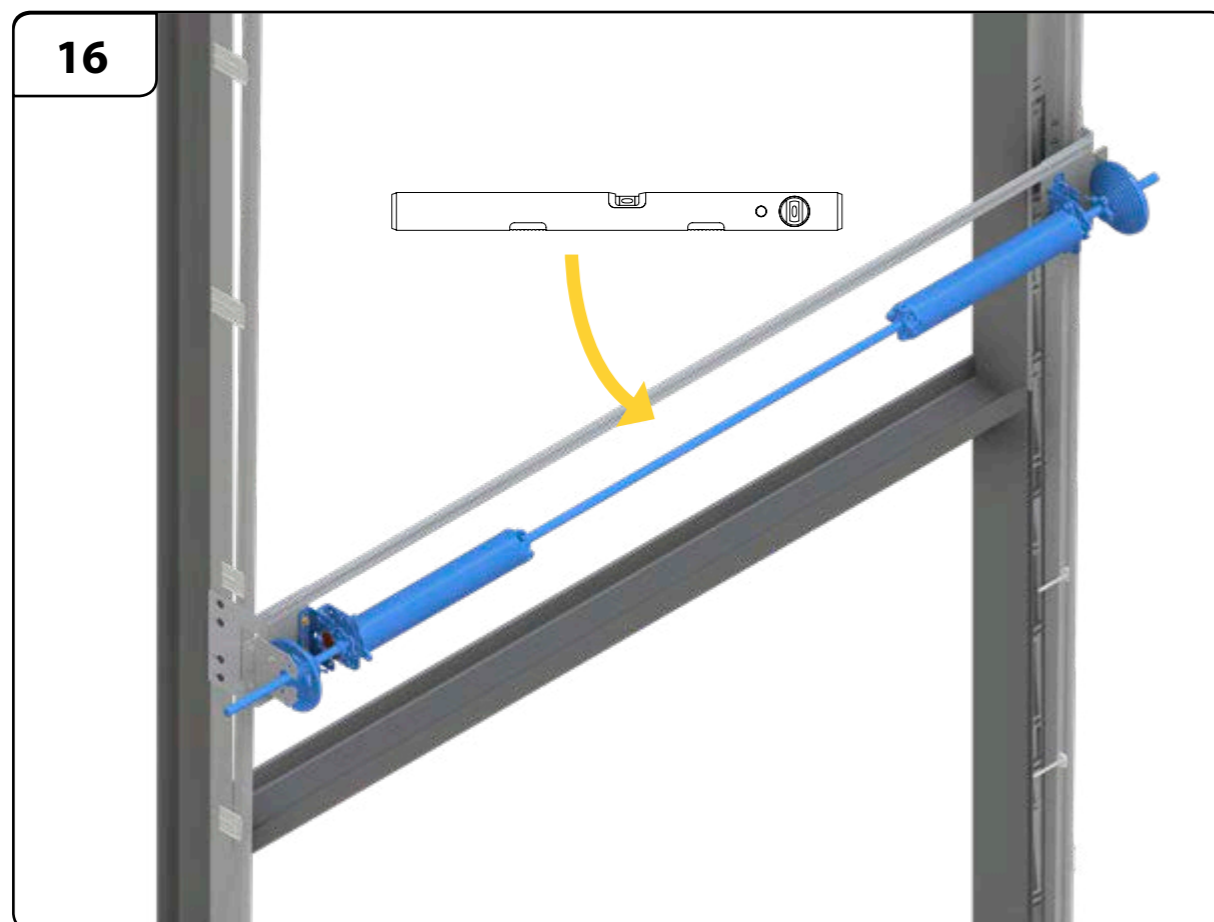
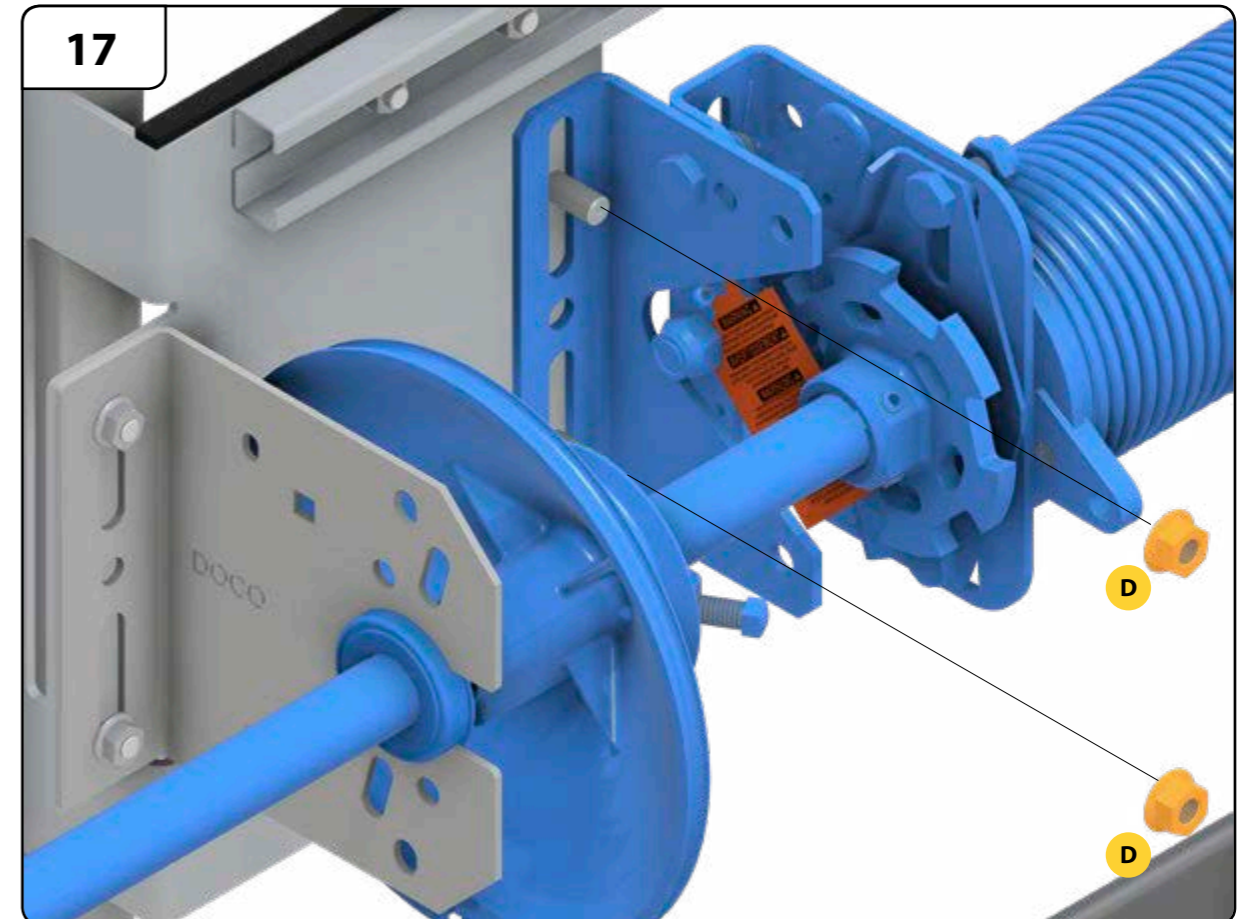
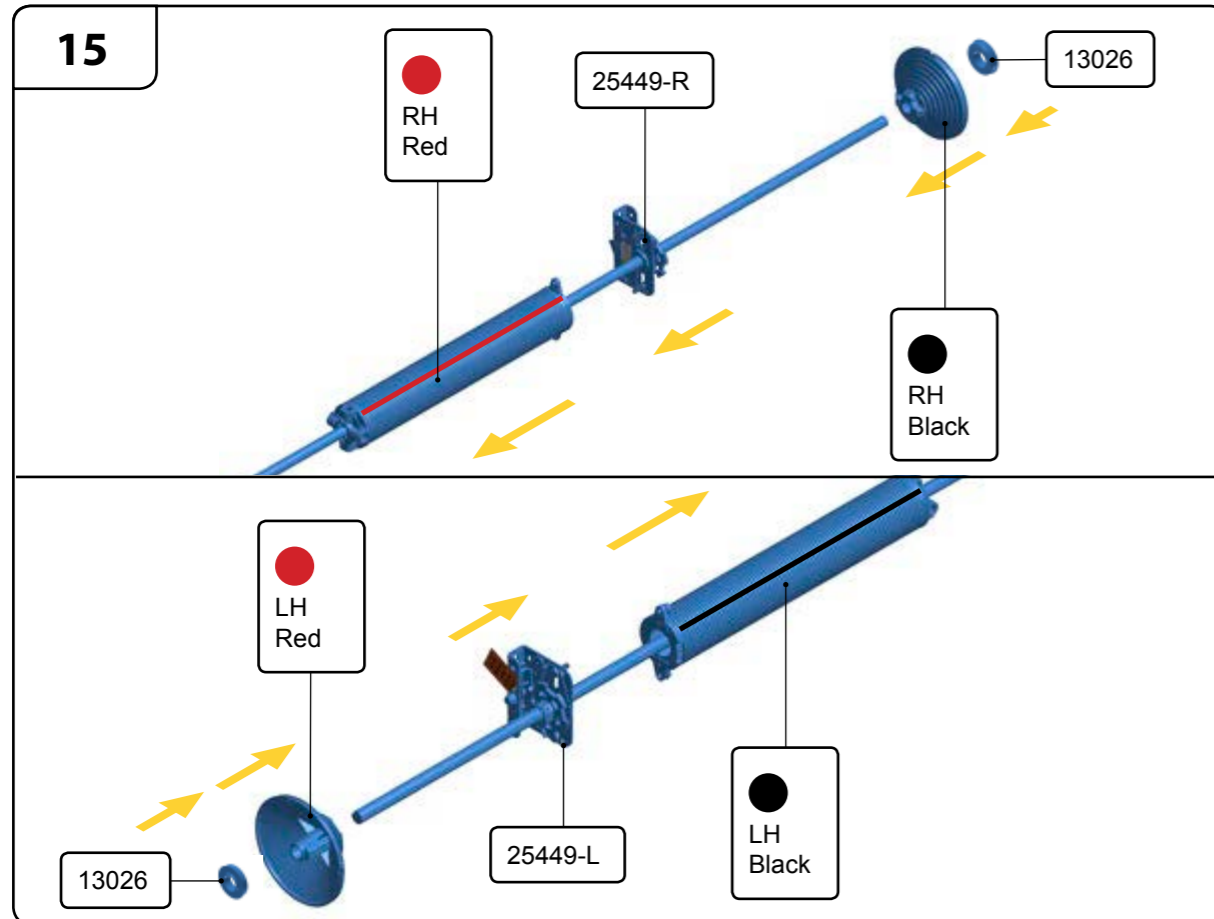
23. Installation

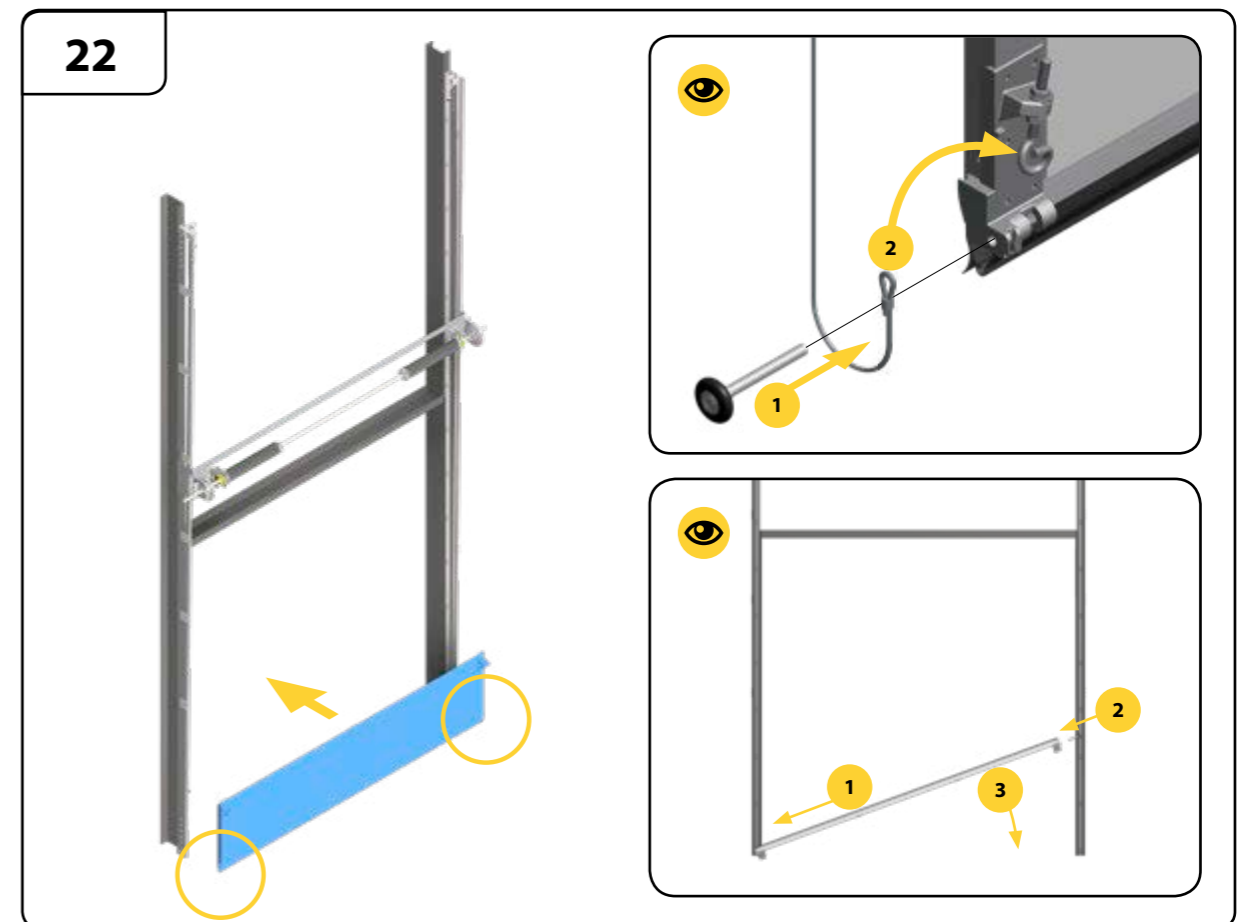
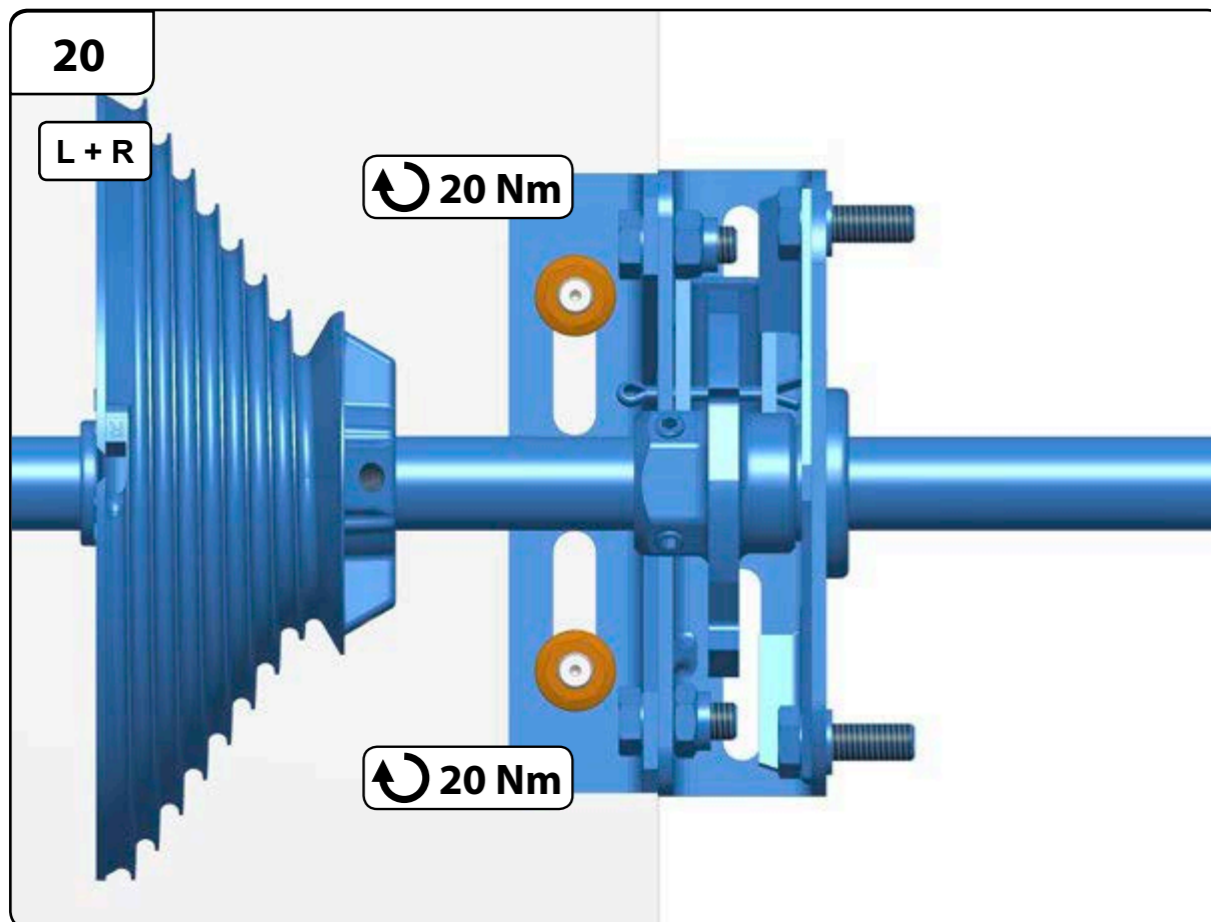
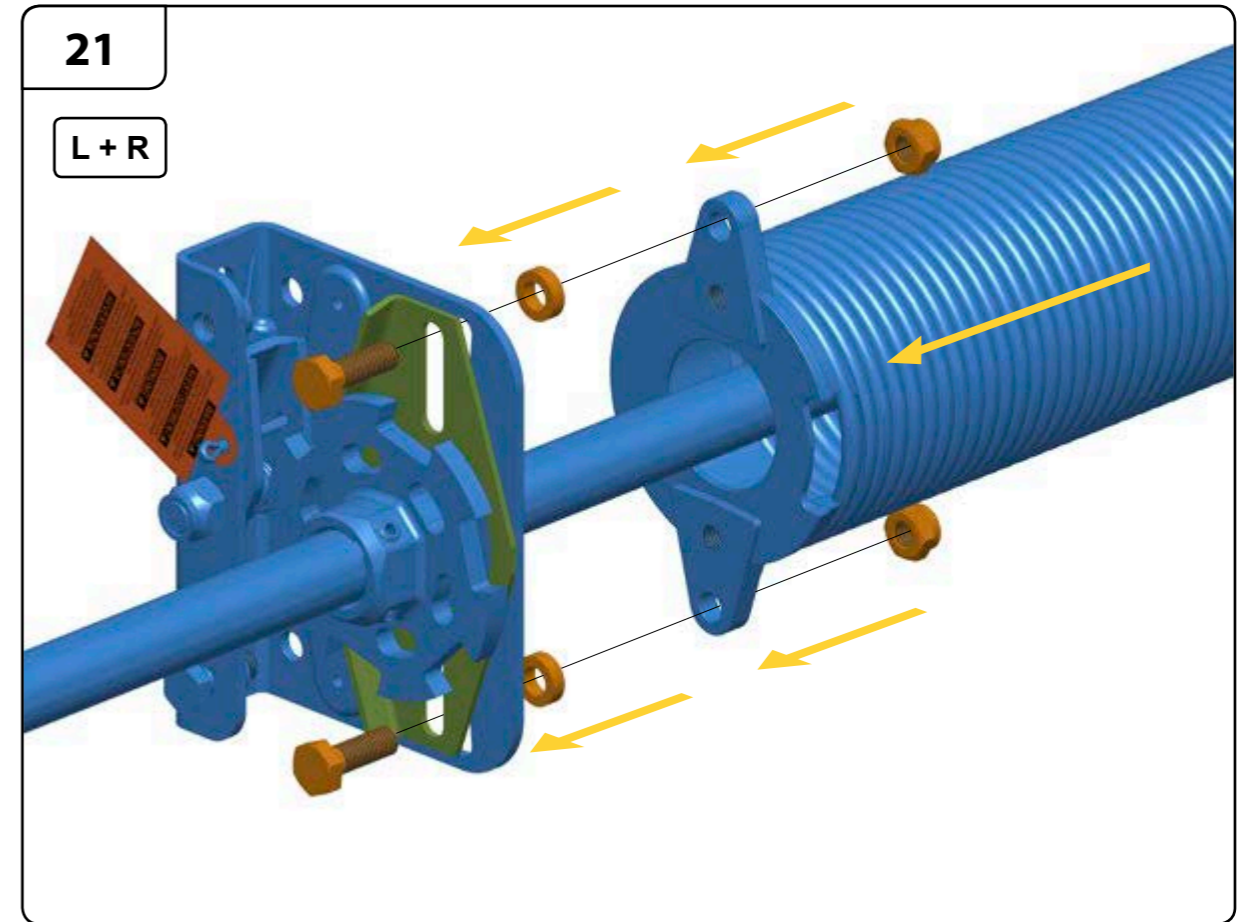
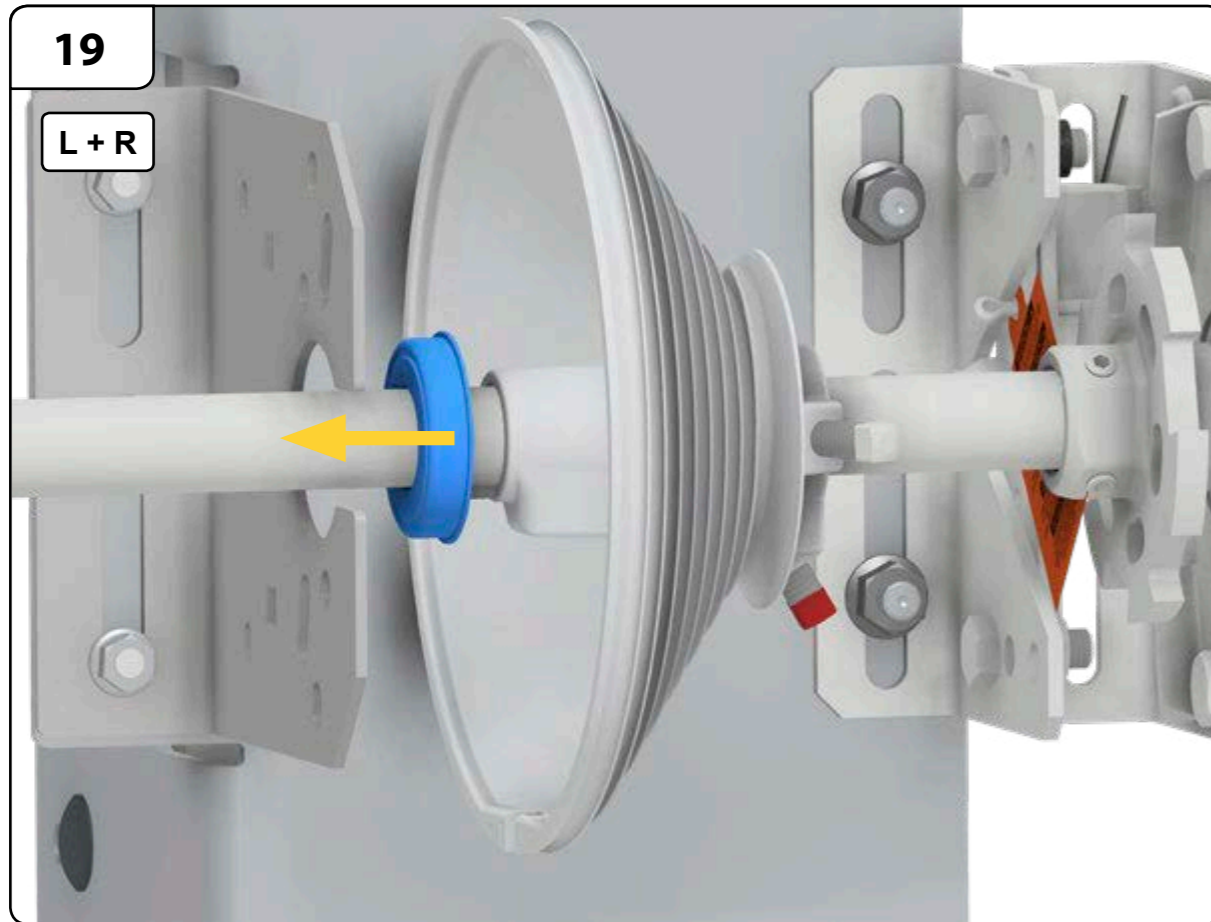












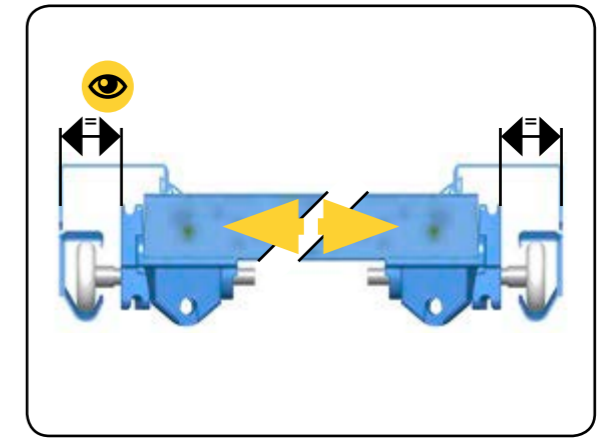
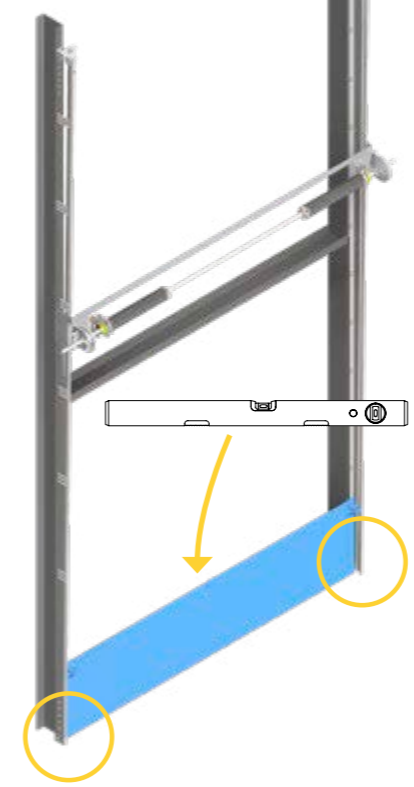
22.1



3 mm: max. 166 kg
4 mm: max. 295 kg

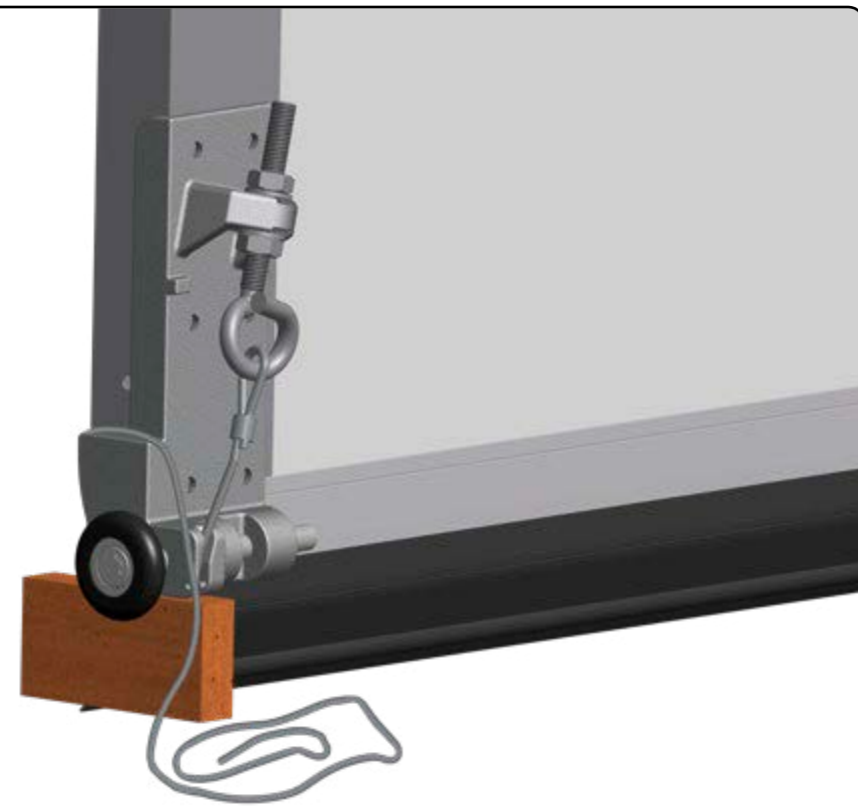


24



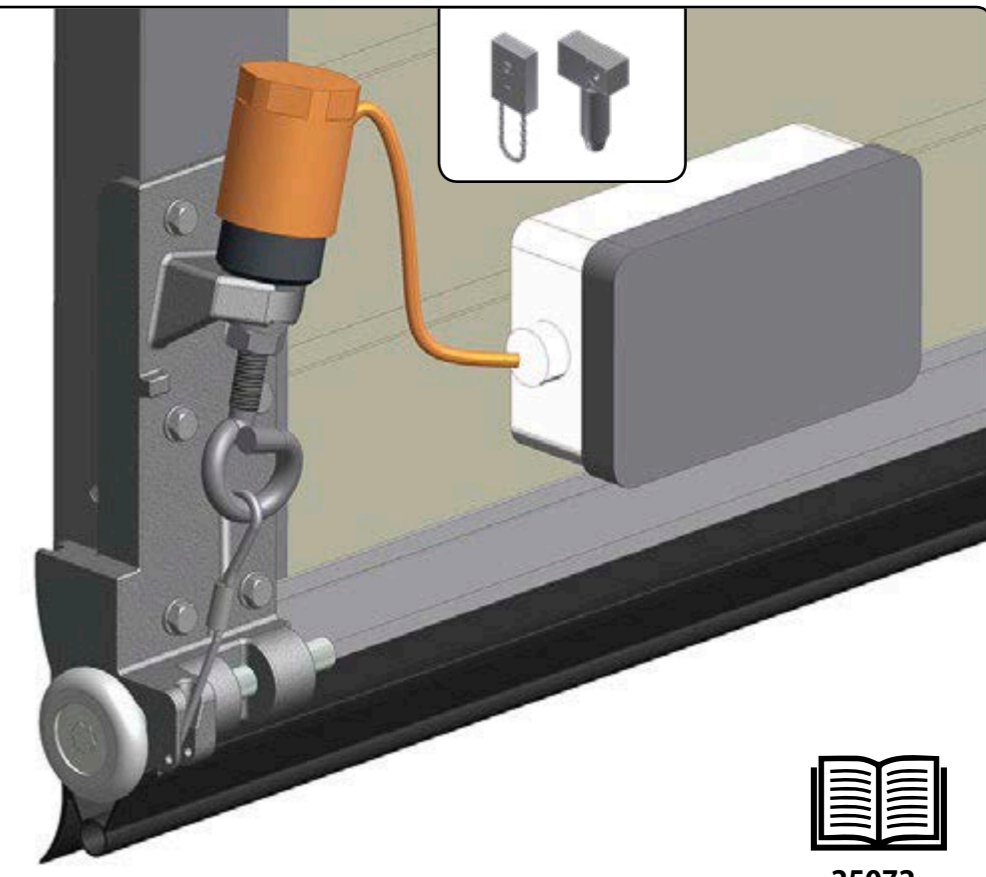
23

L+R

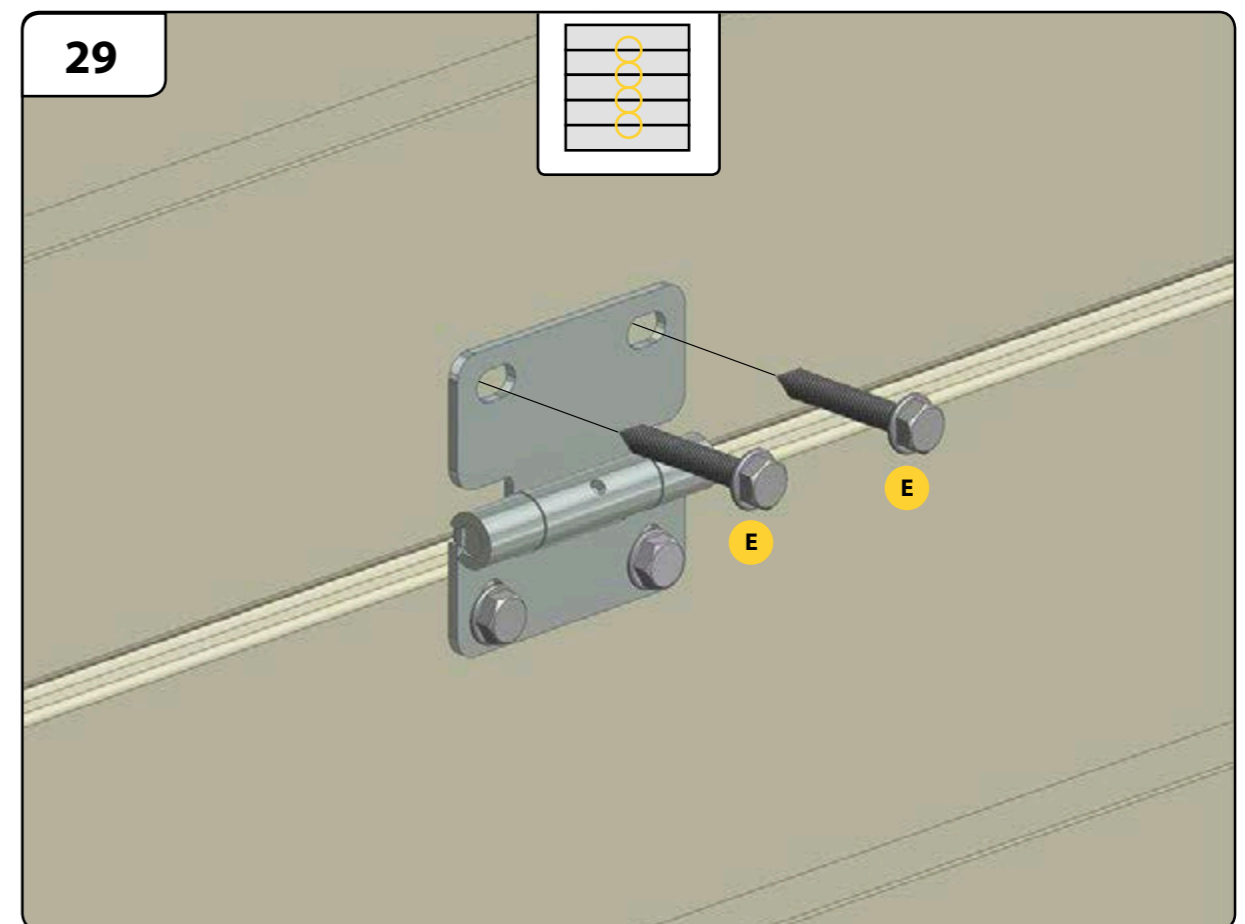
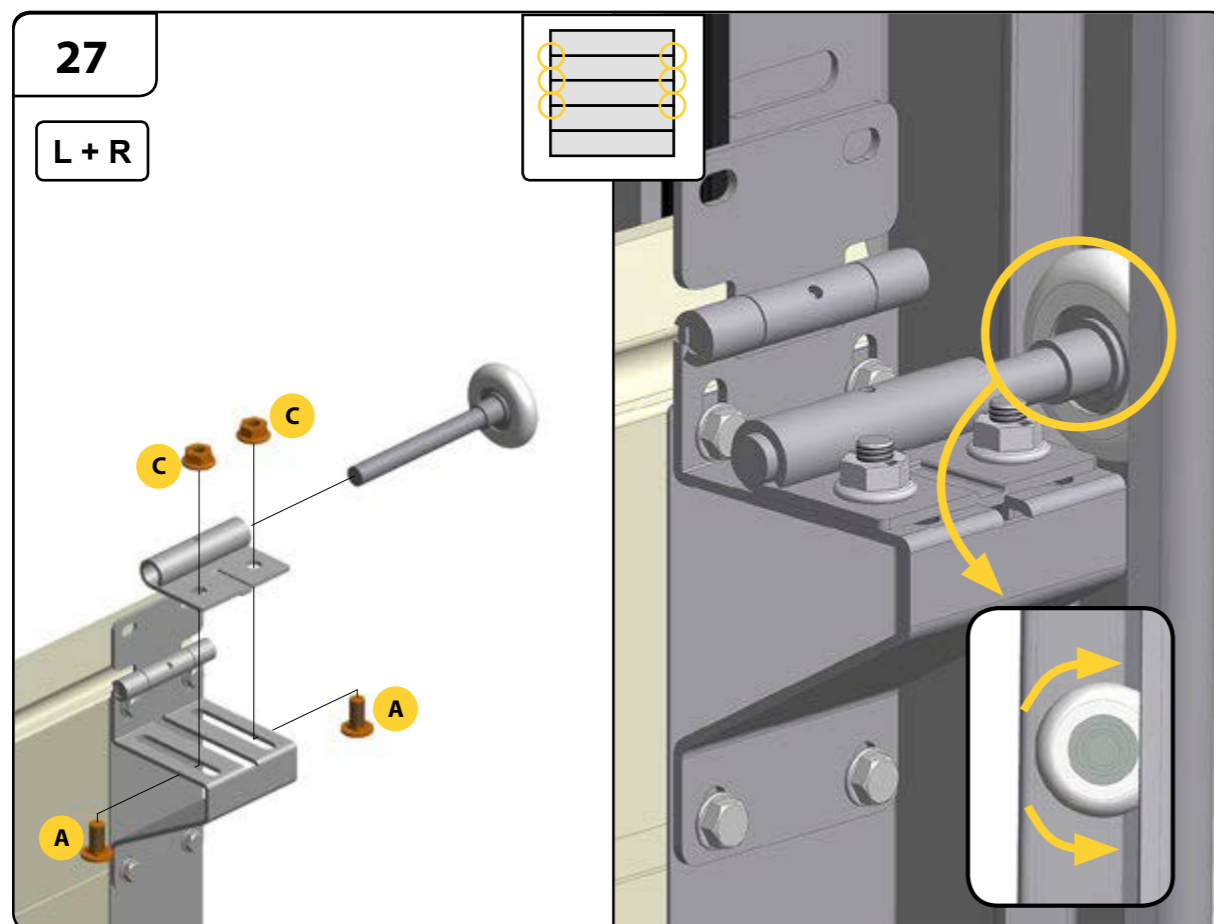
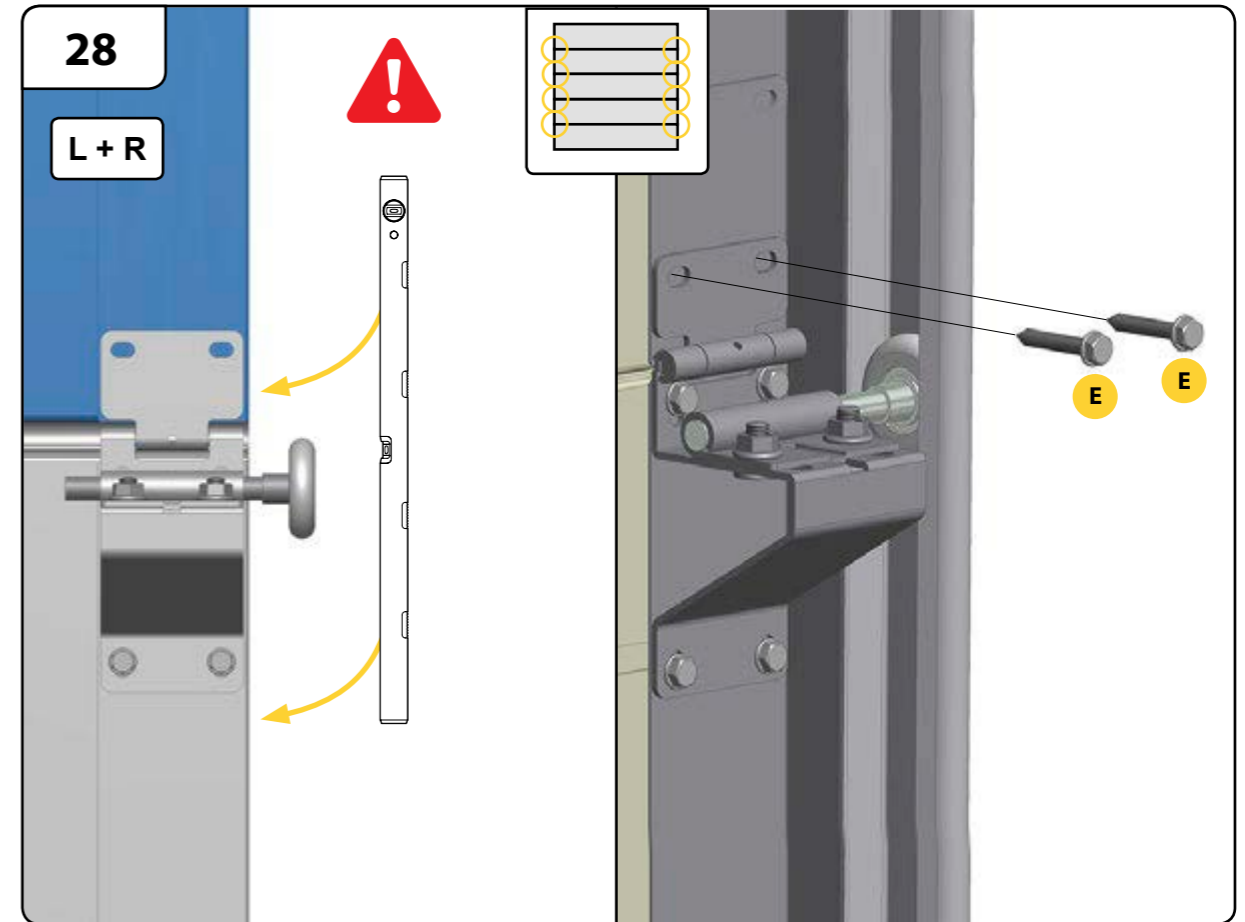
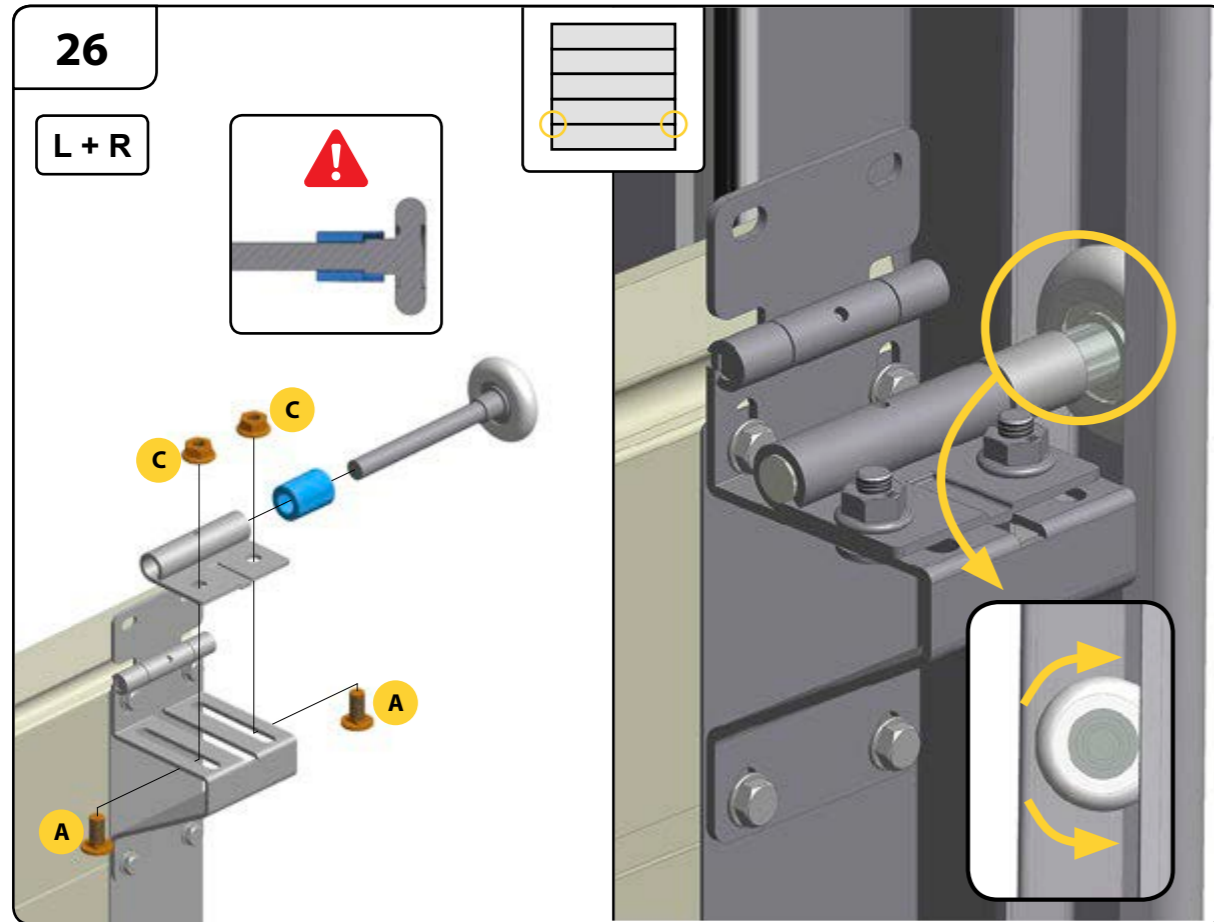


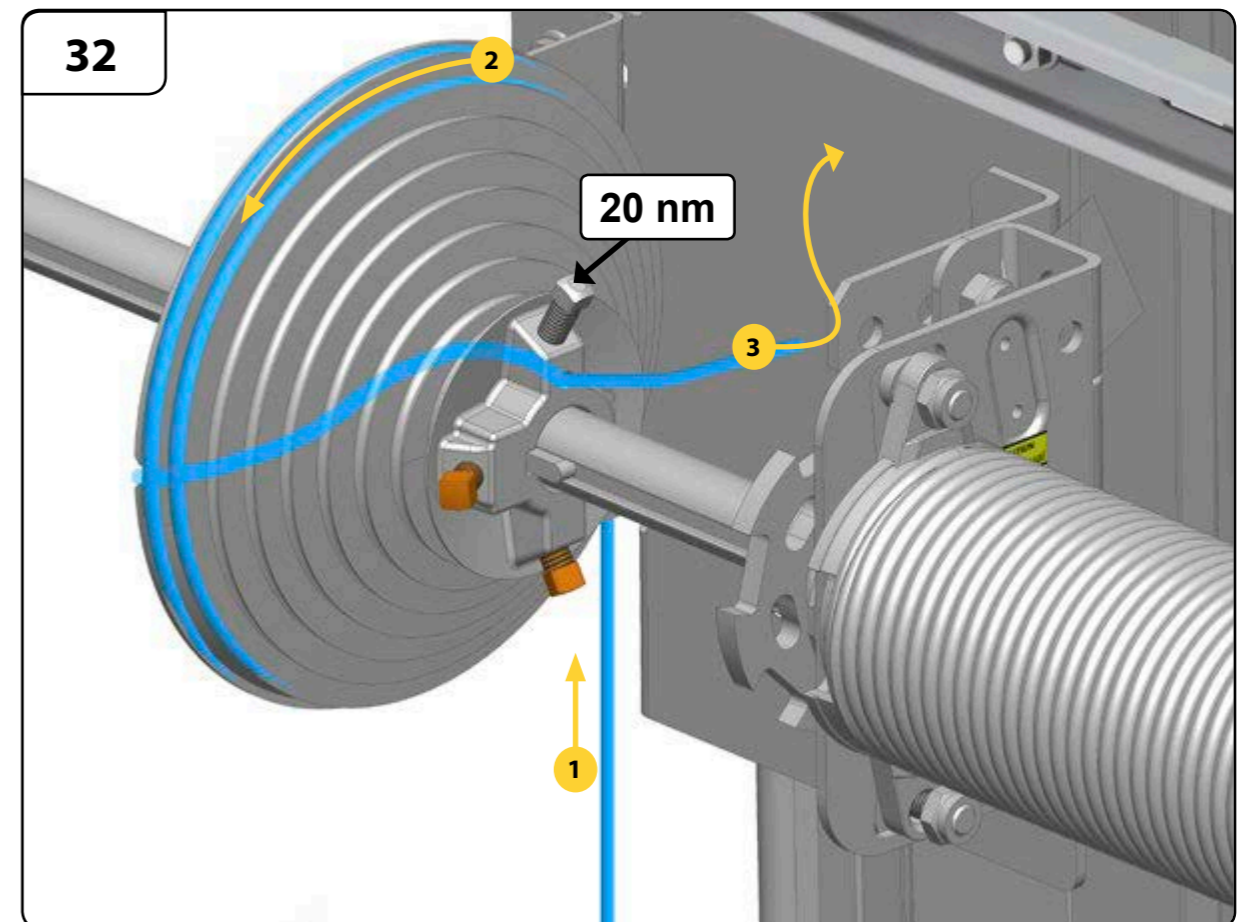
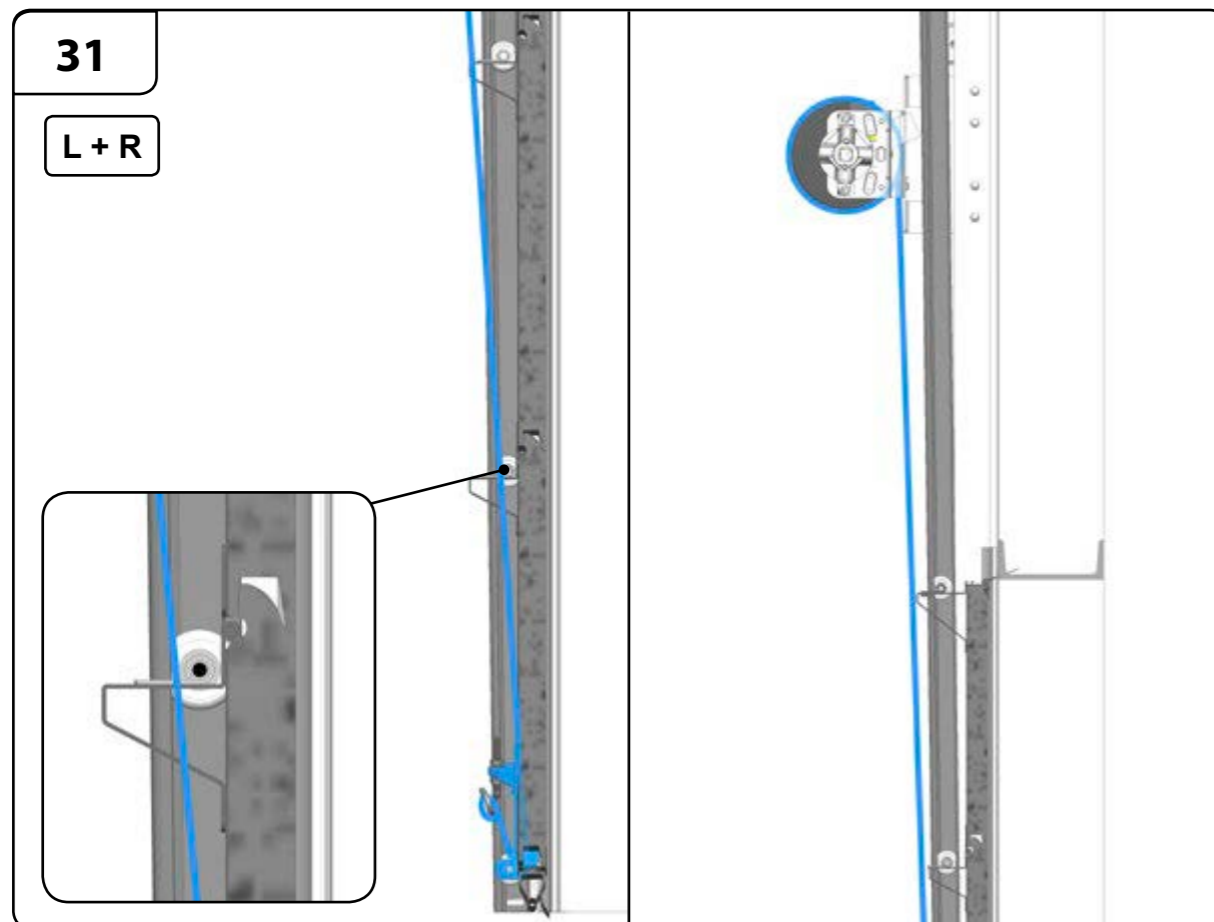
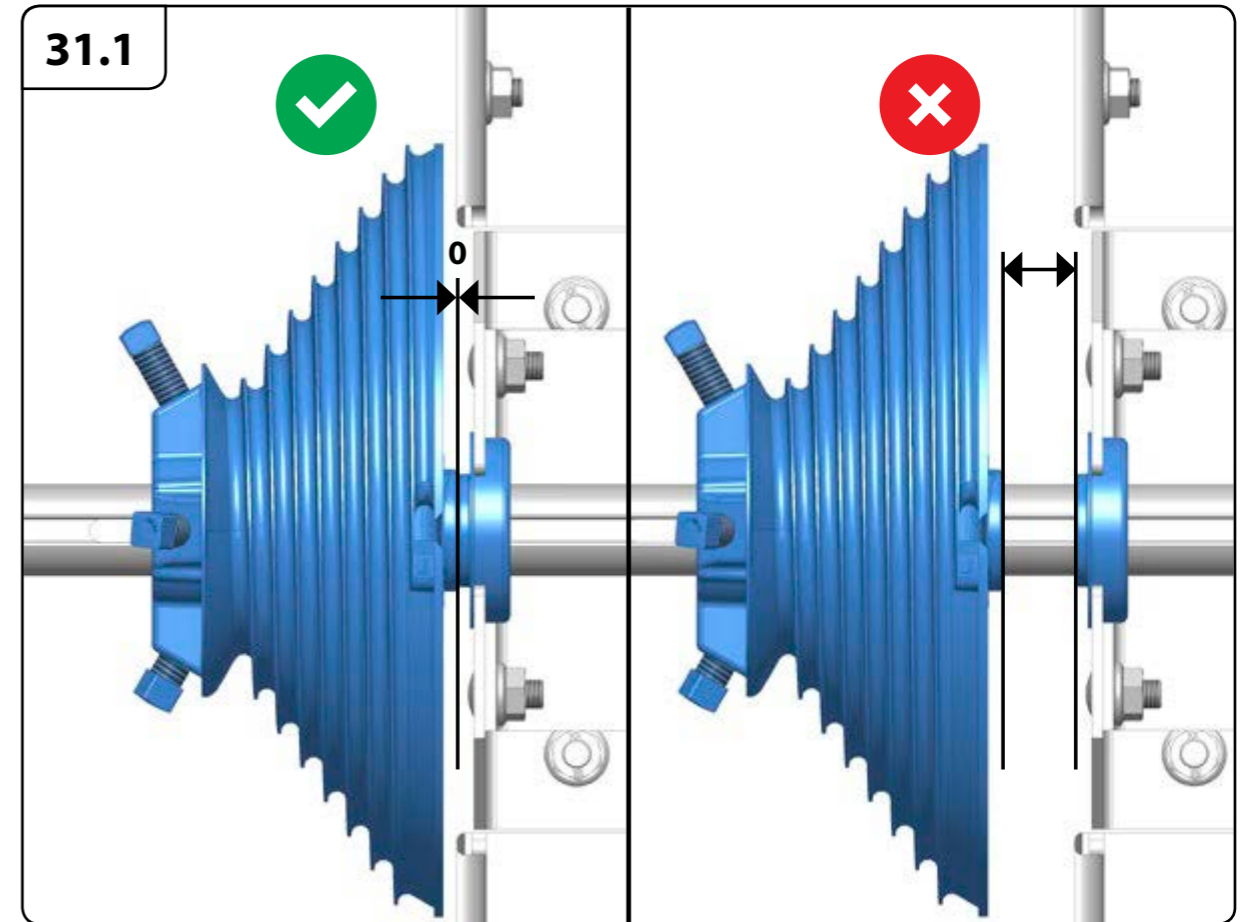
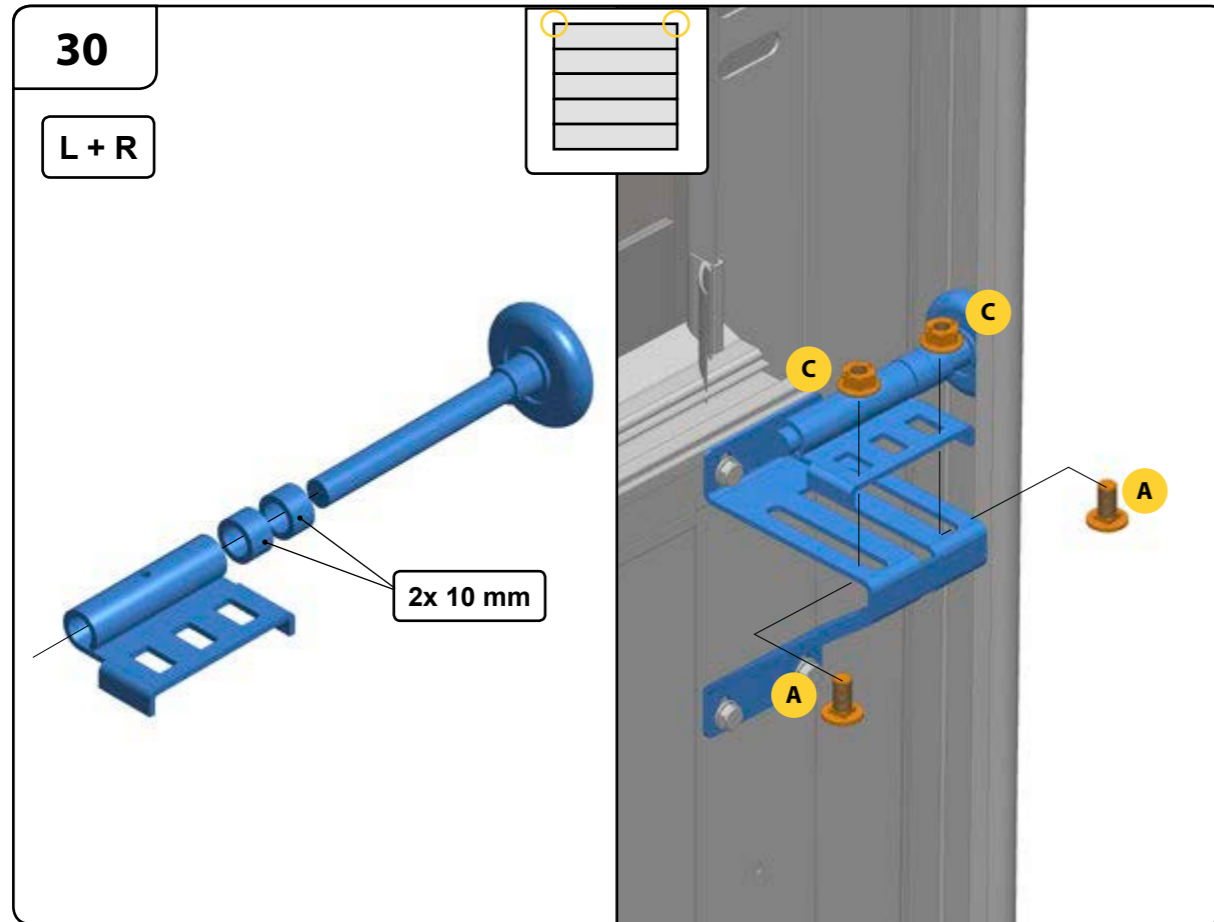
25

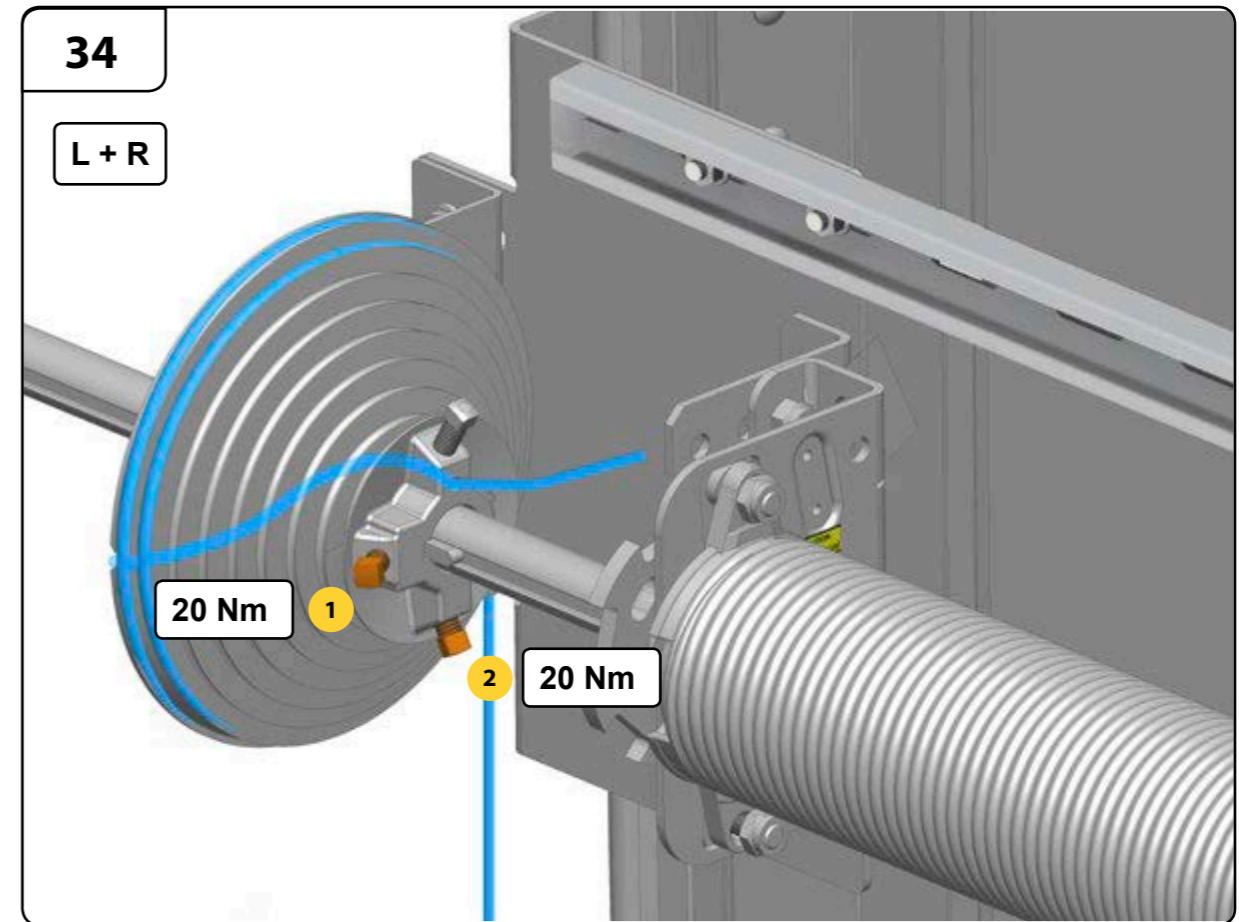
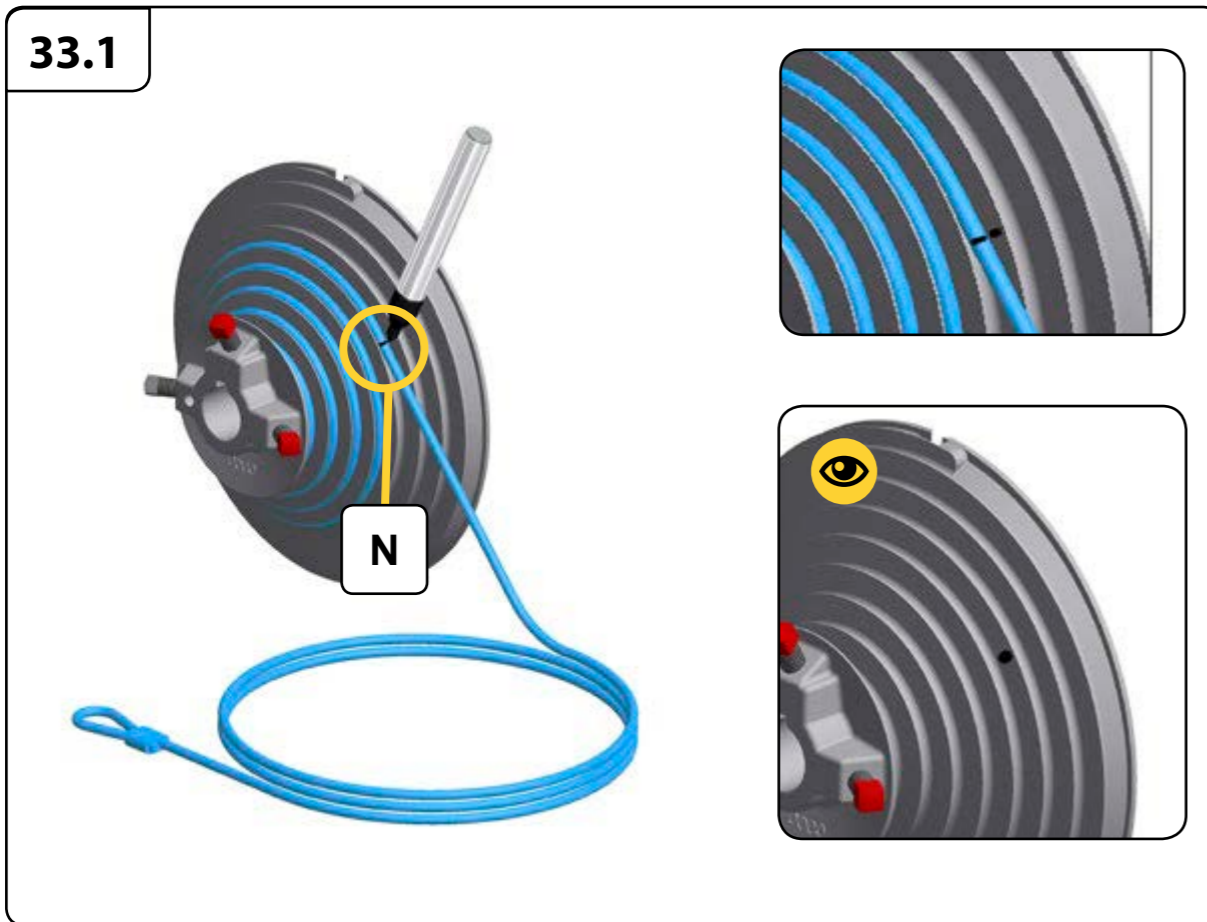
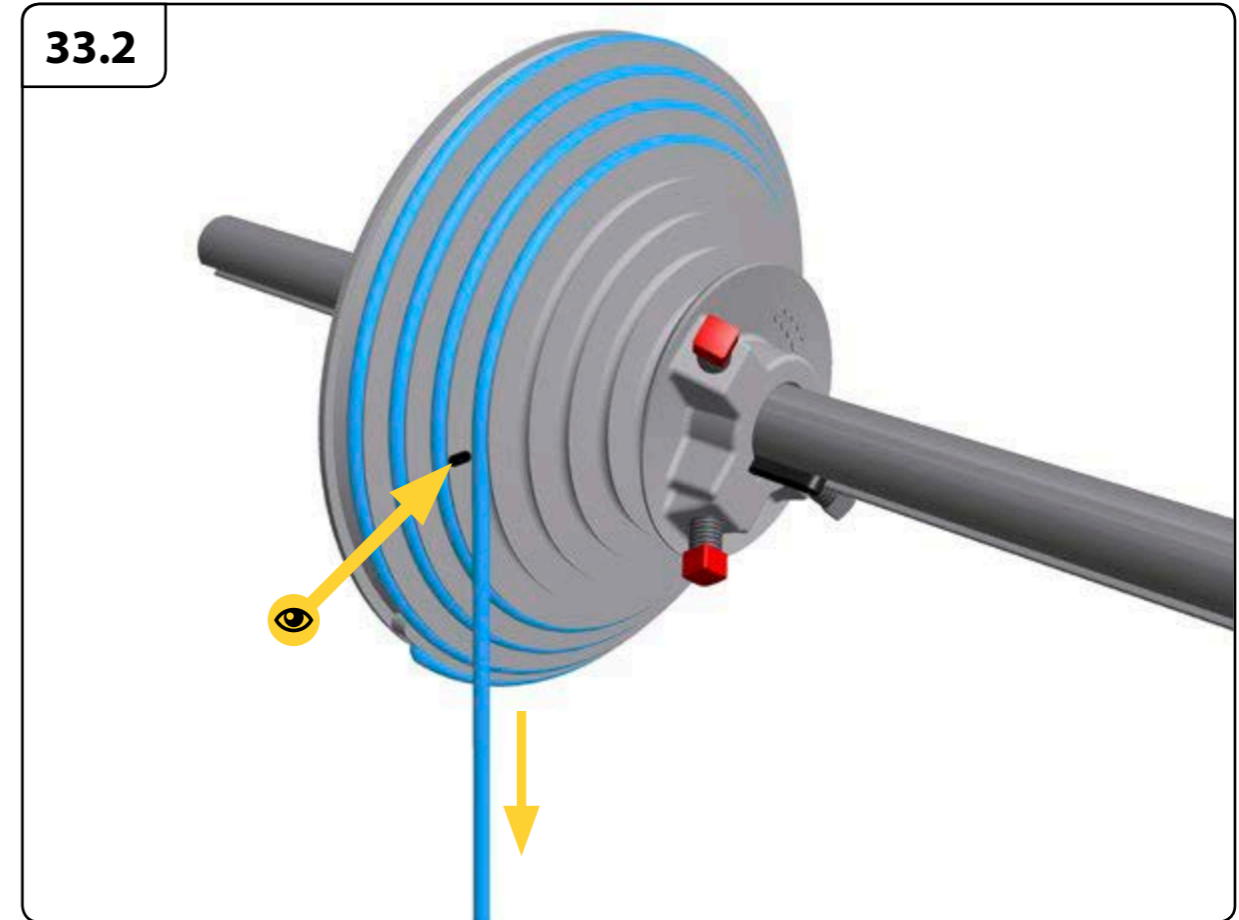
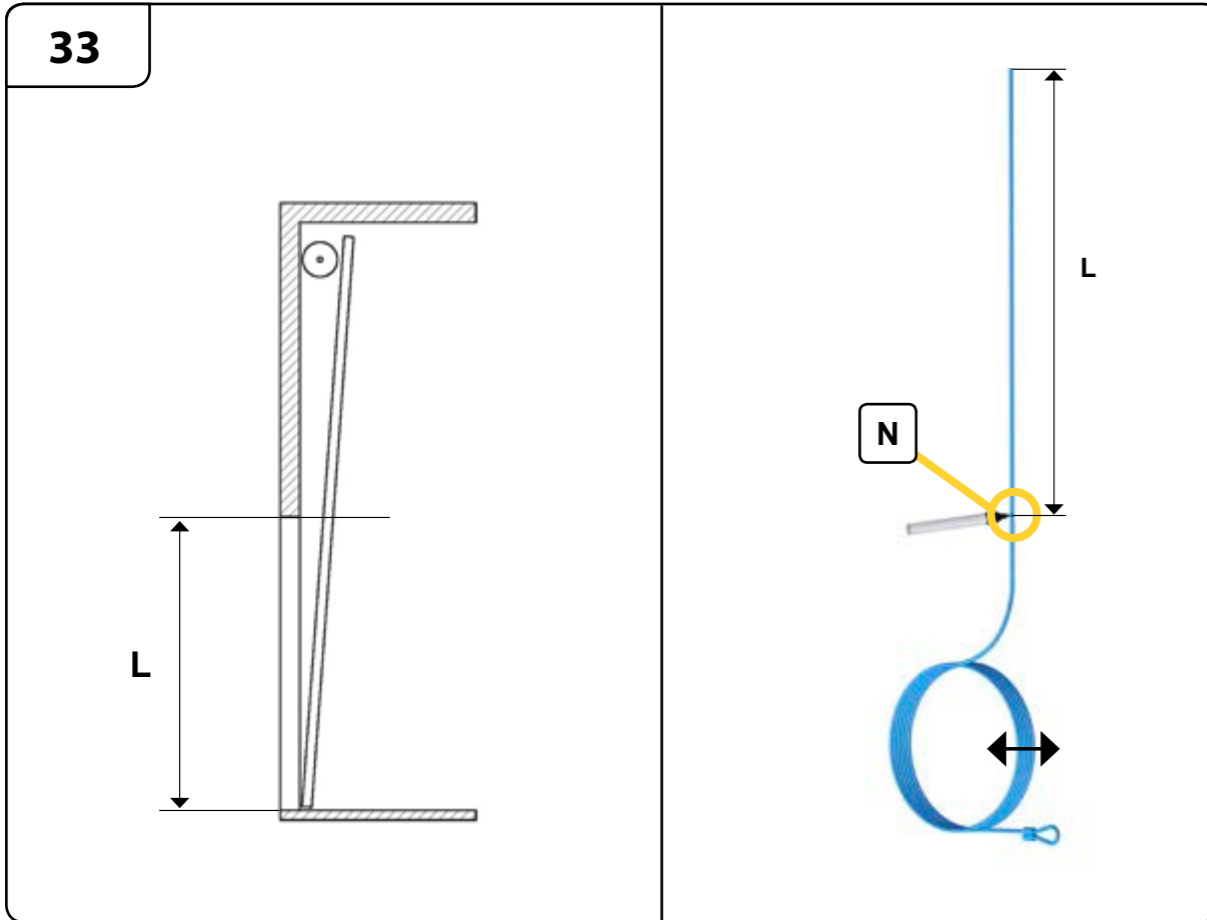
L+R

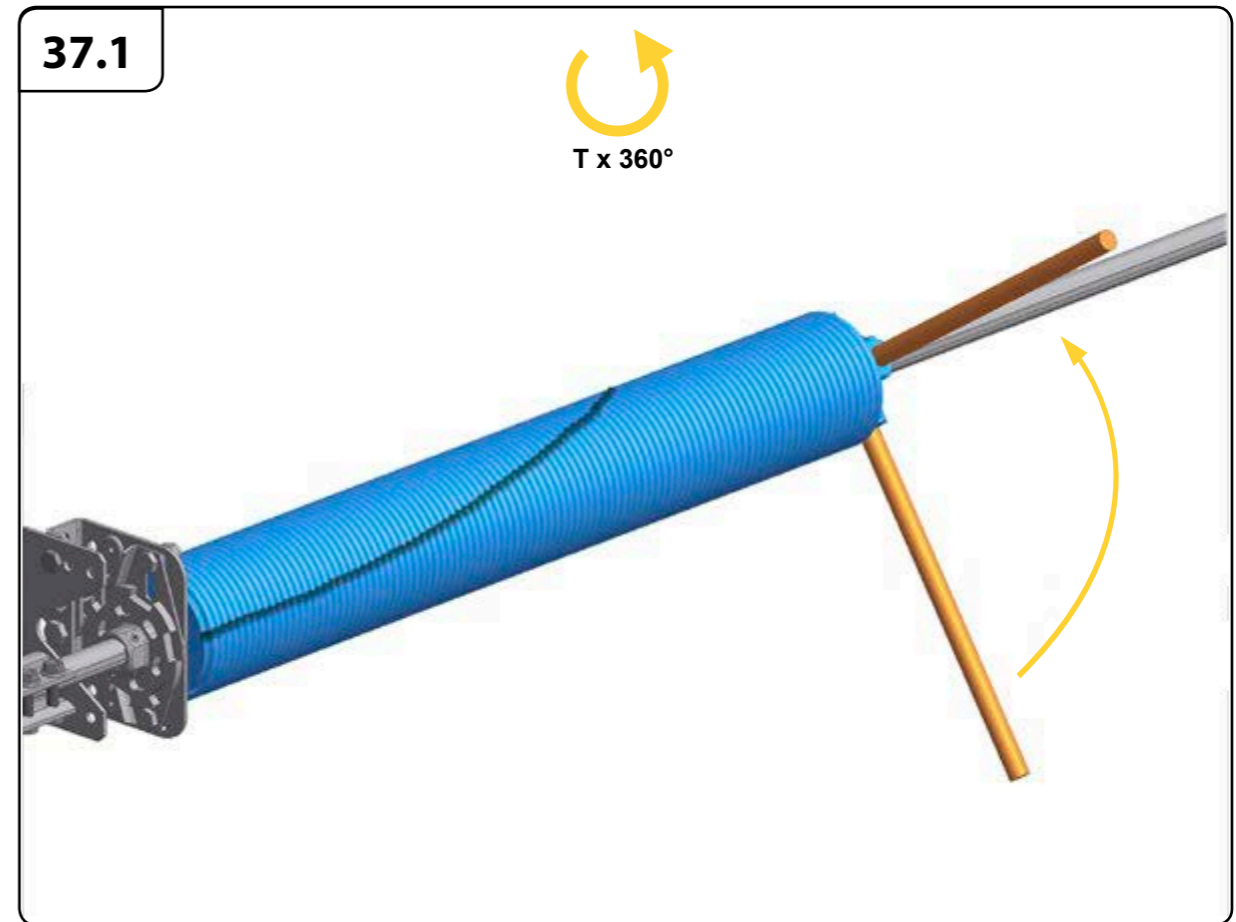
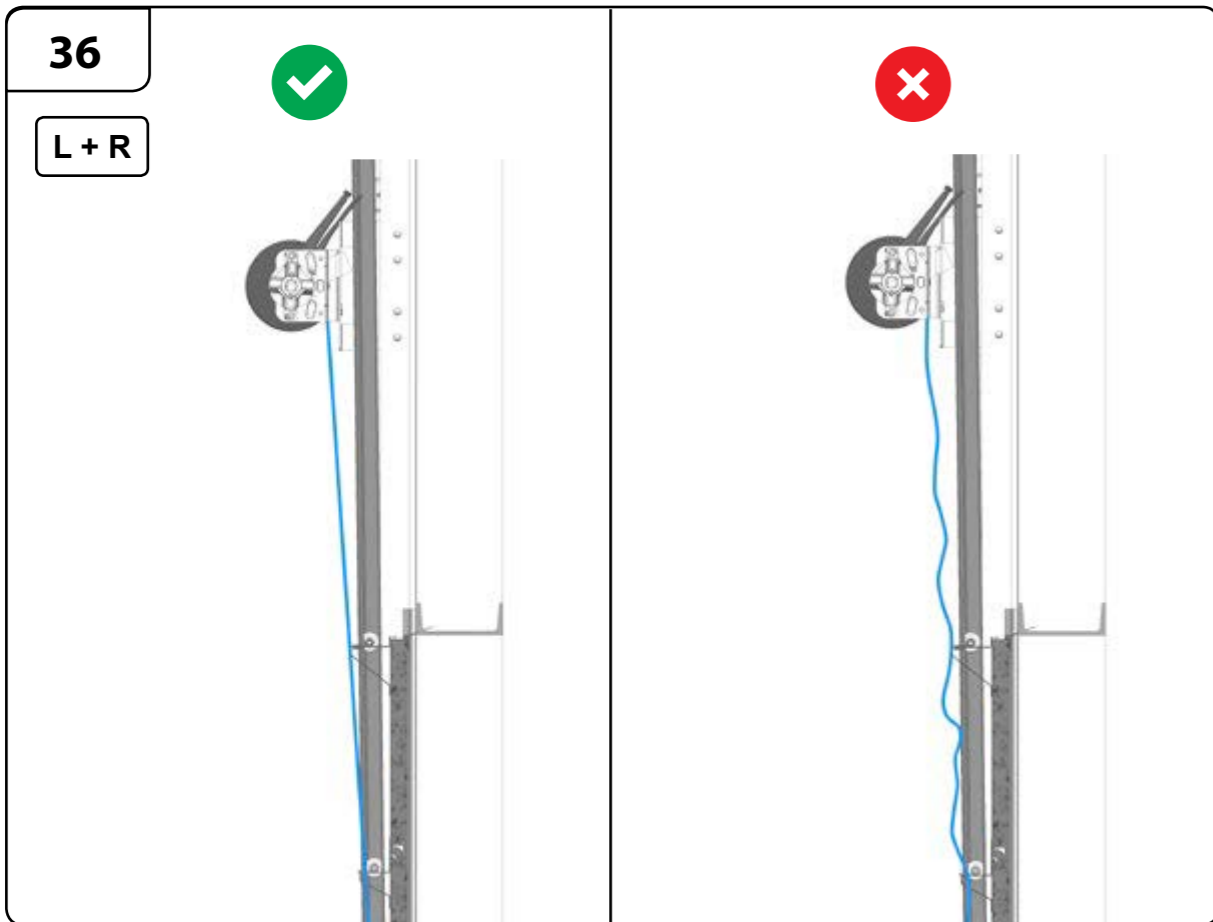
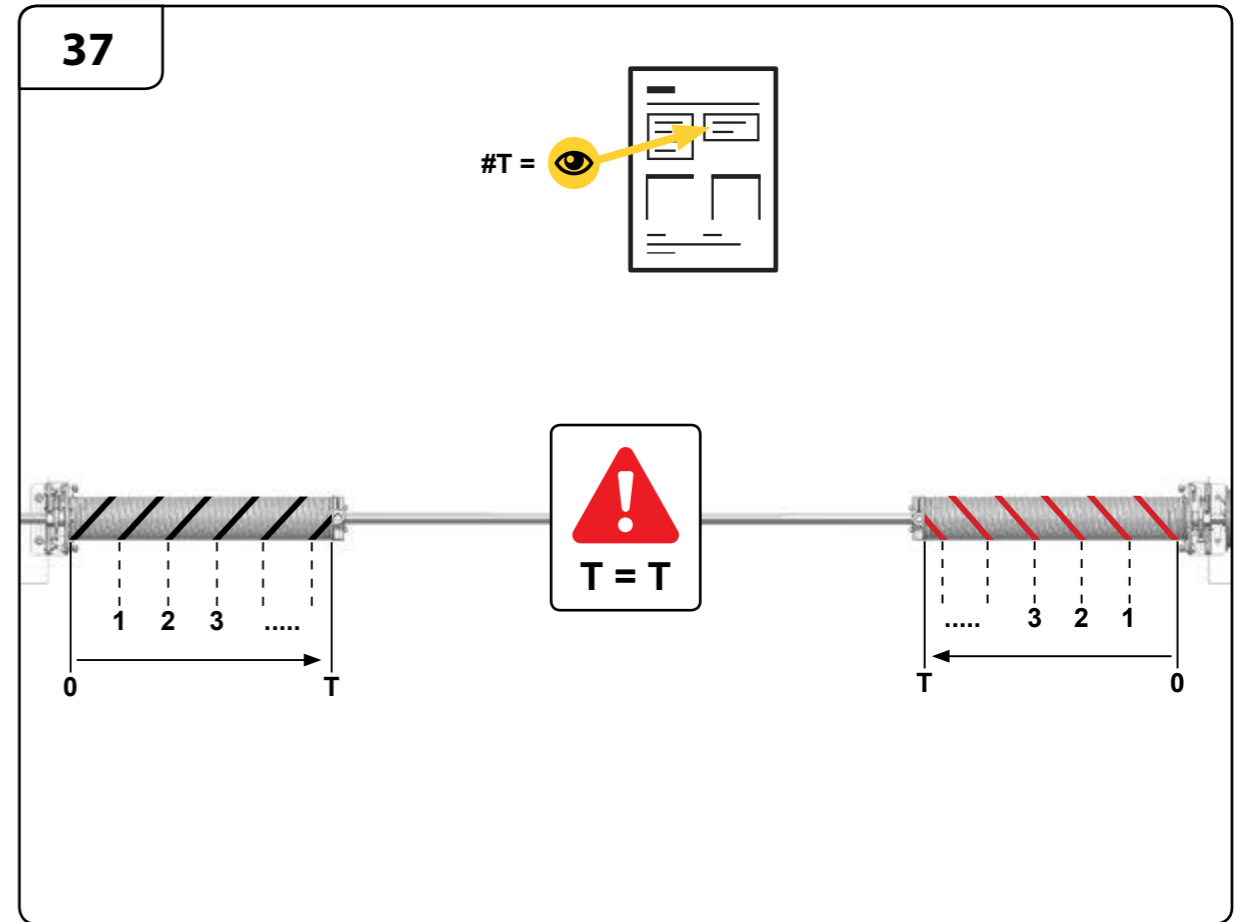
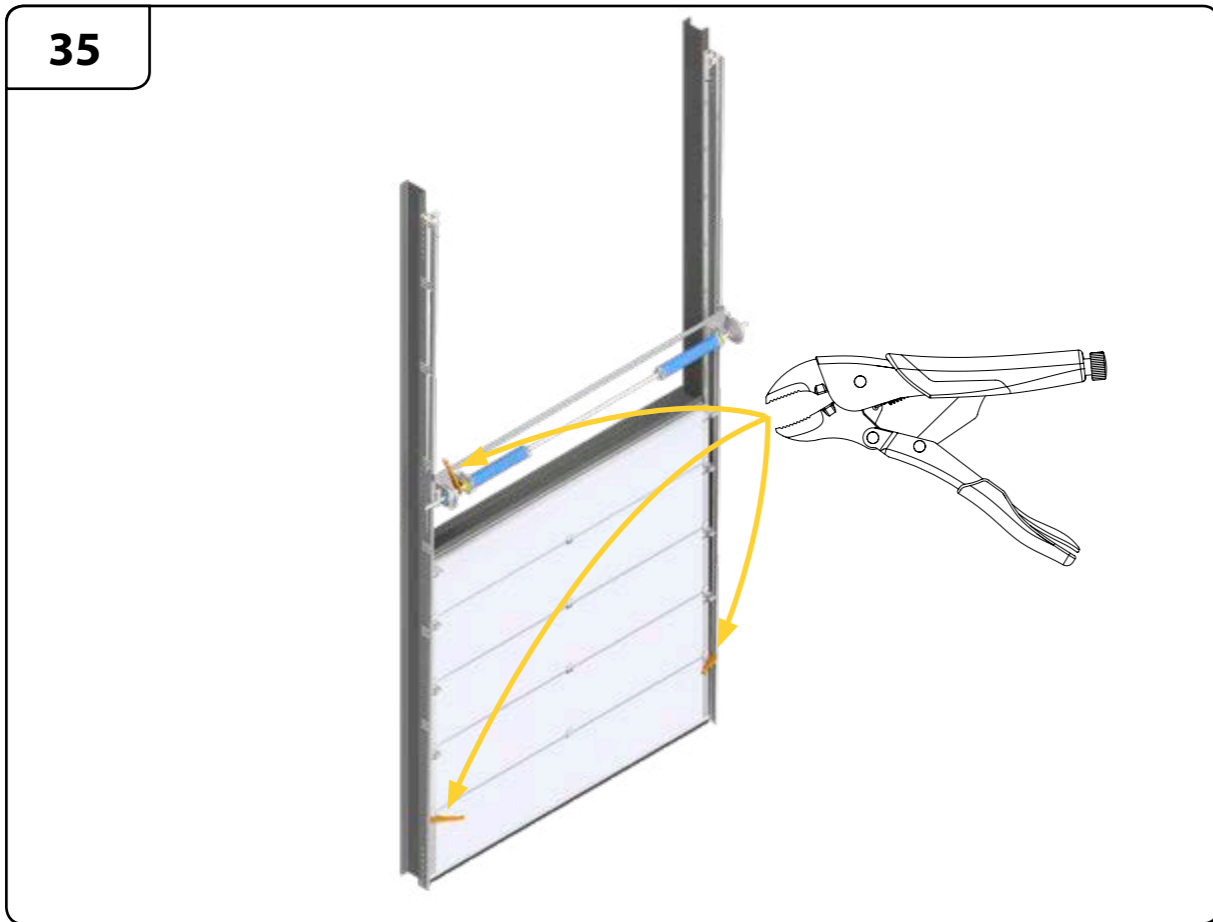


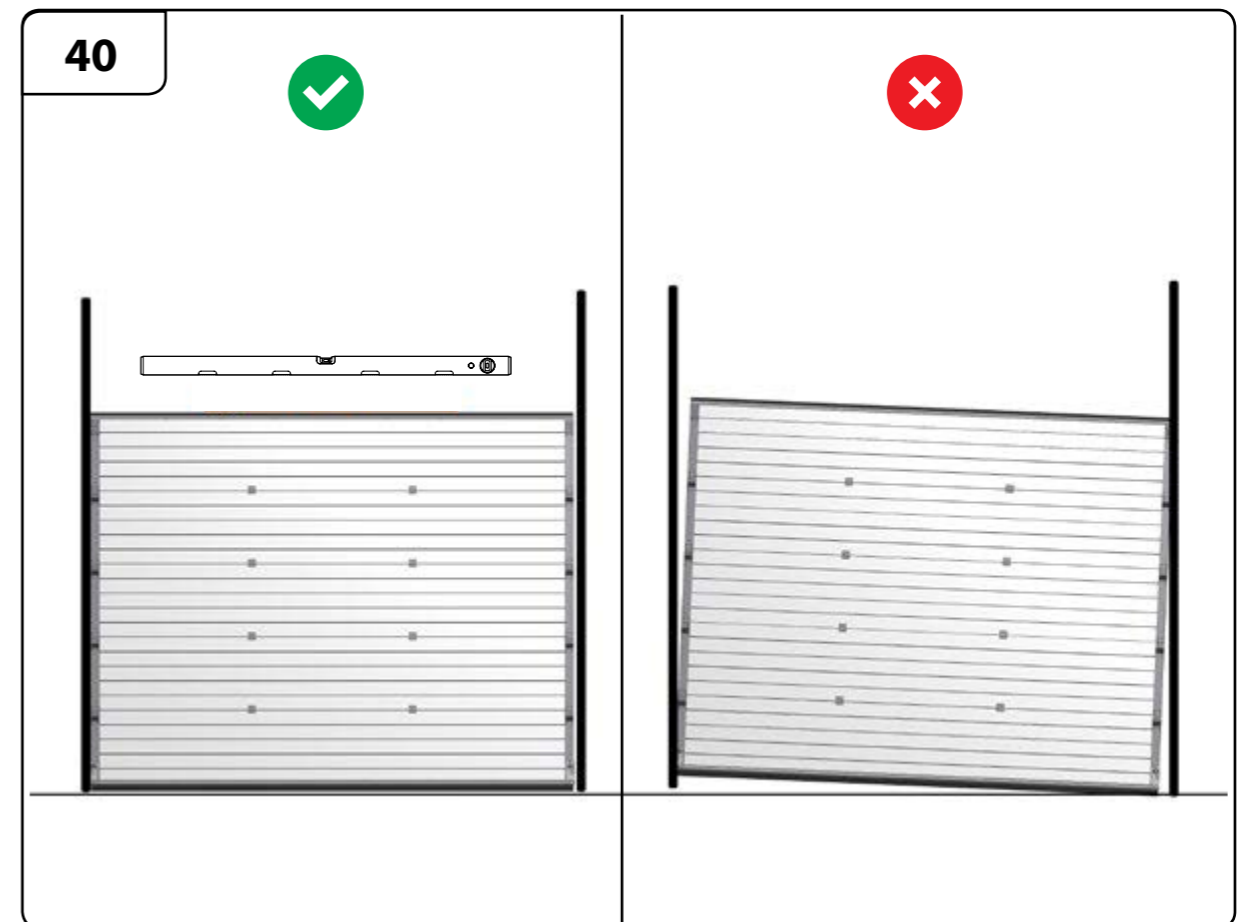
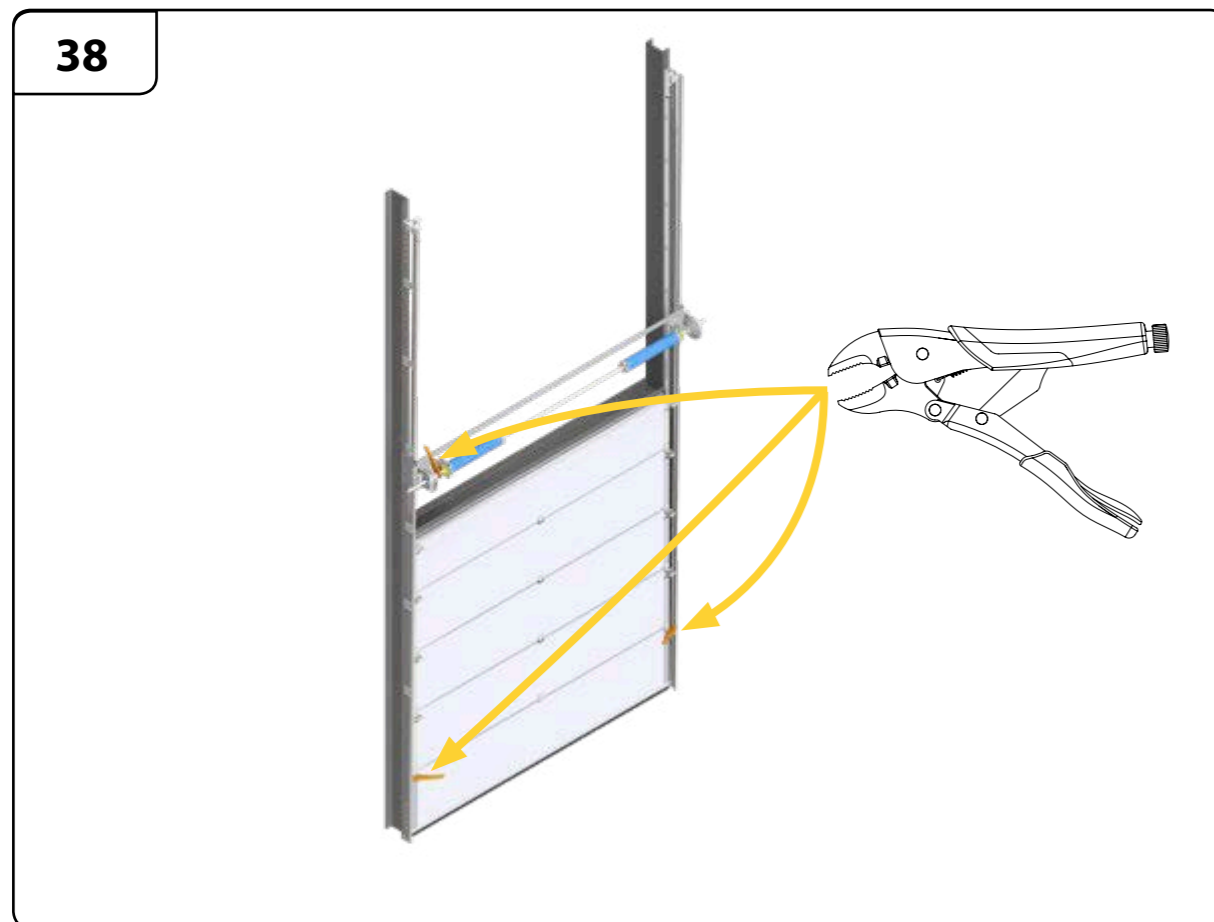
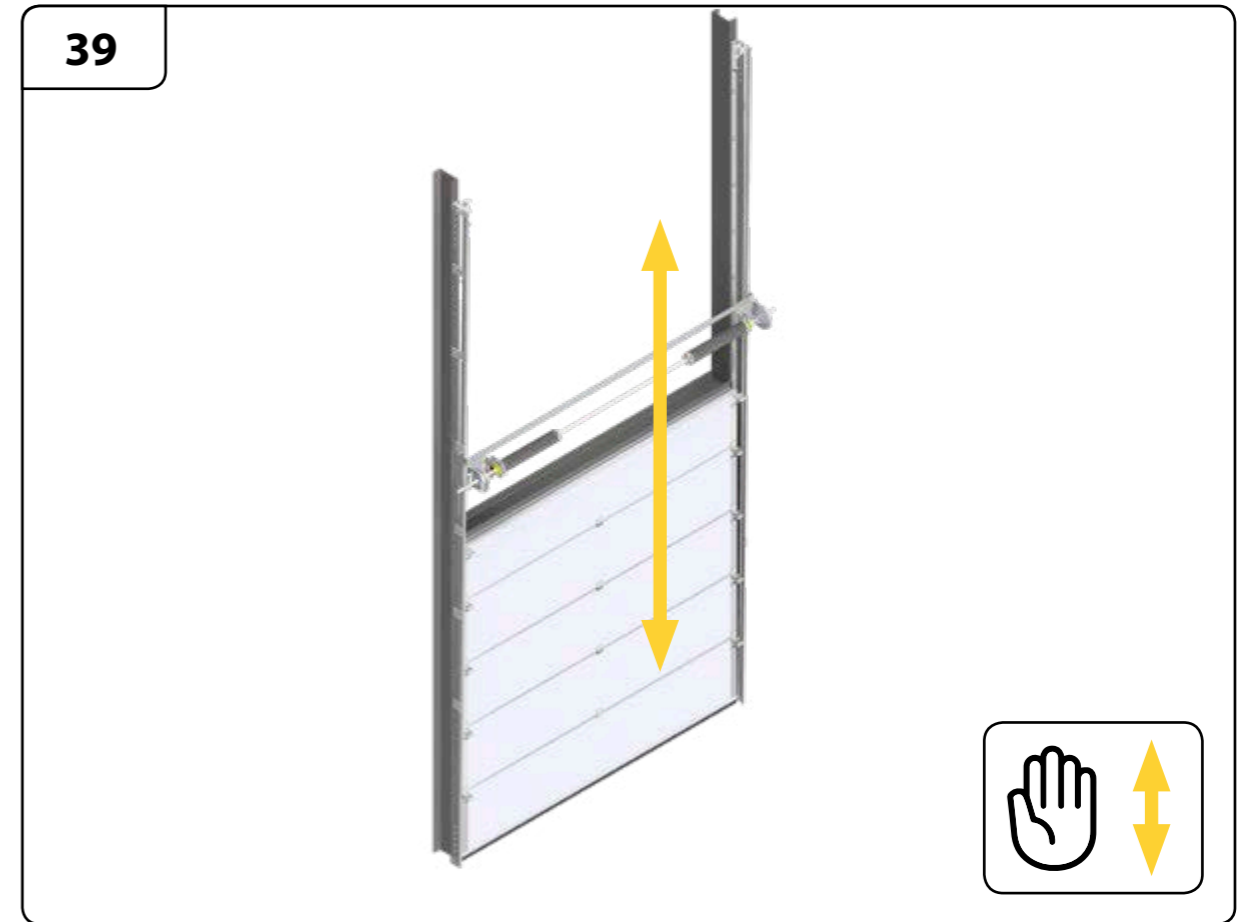
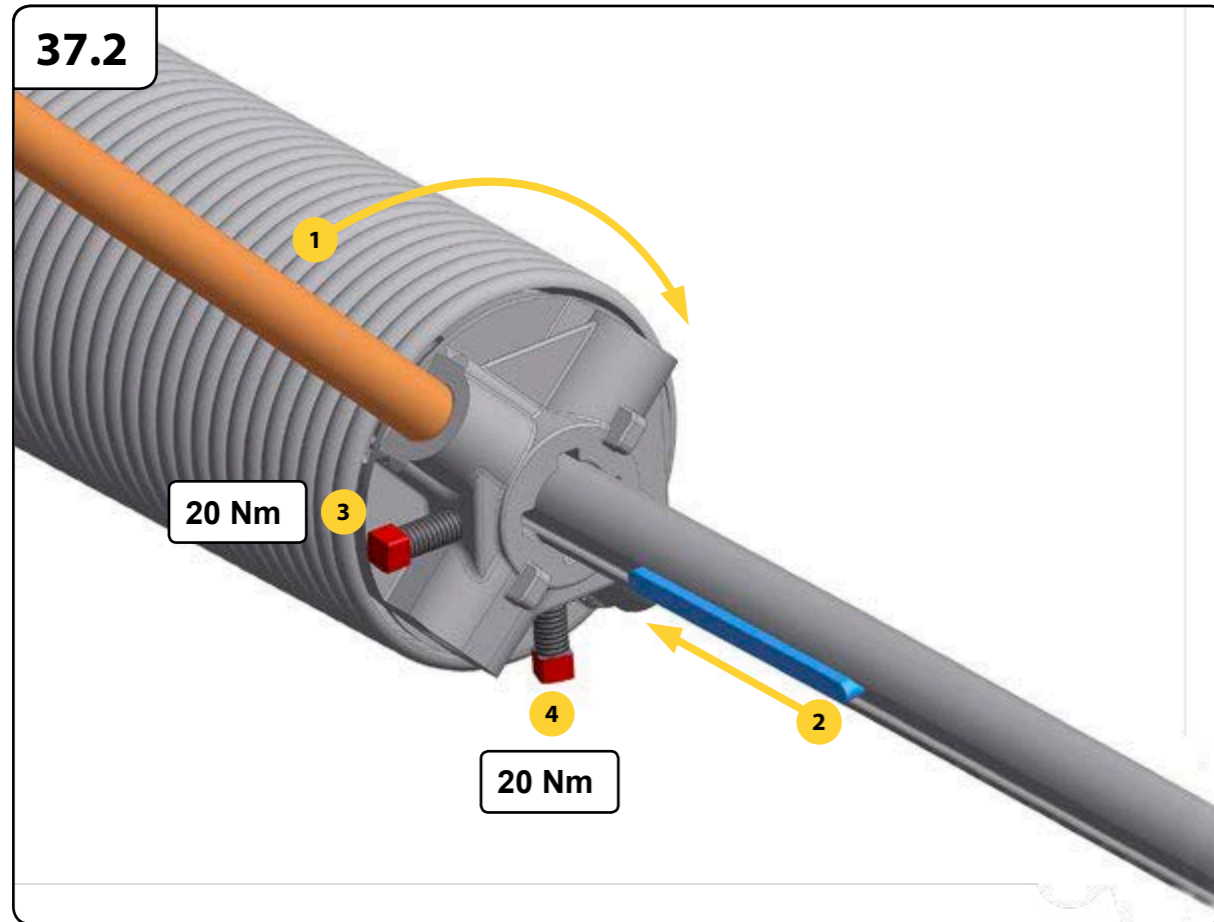
25072

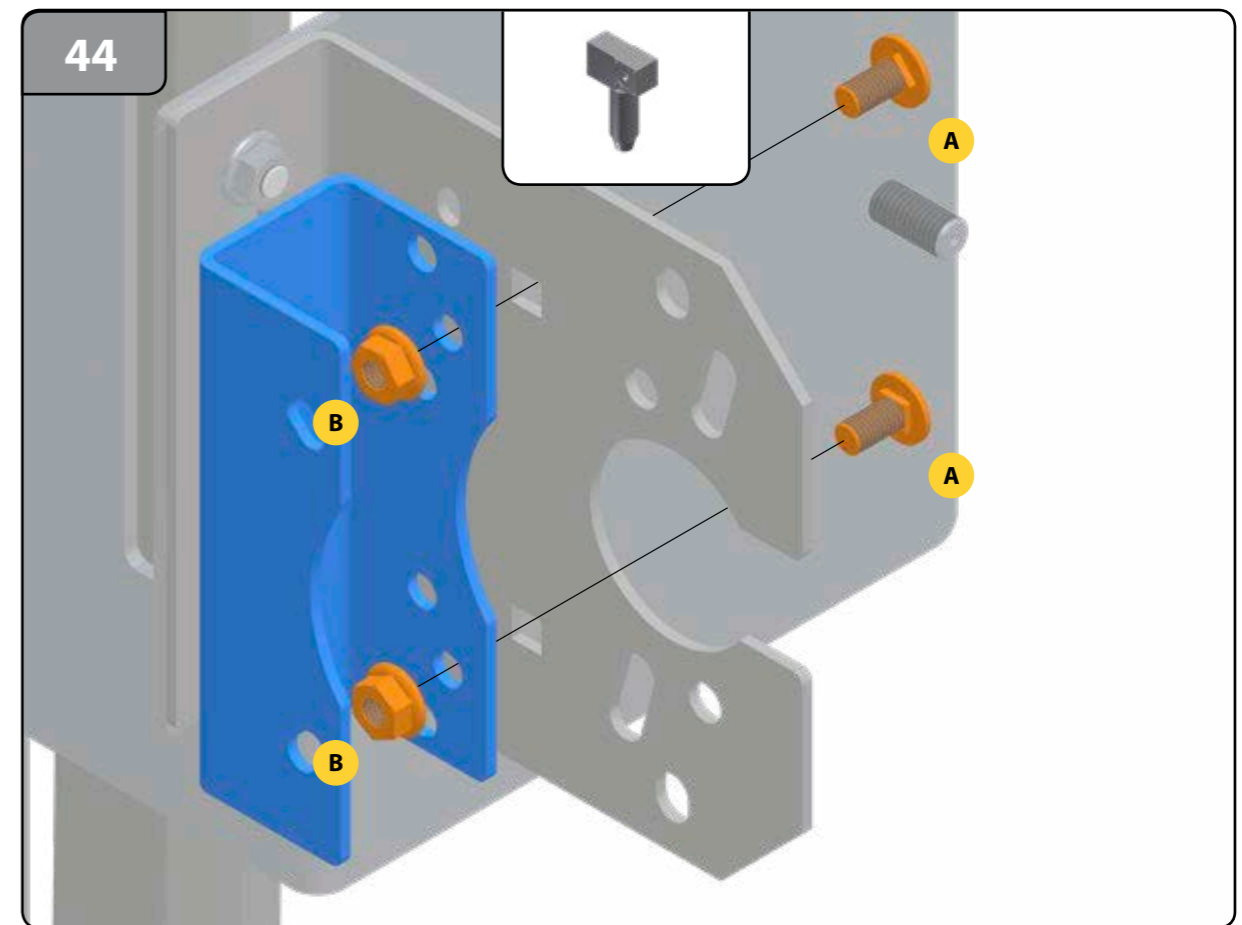
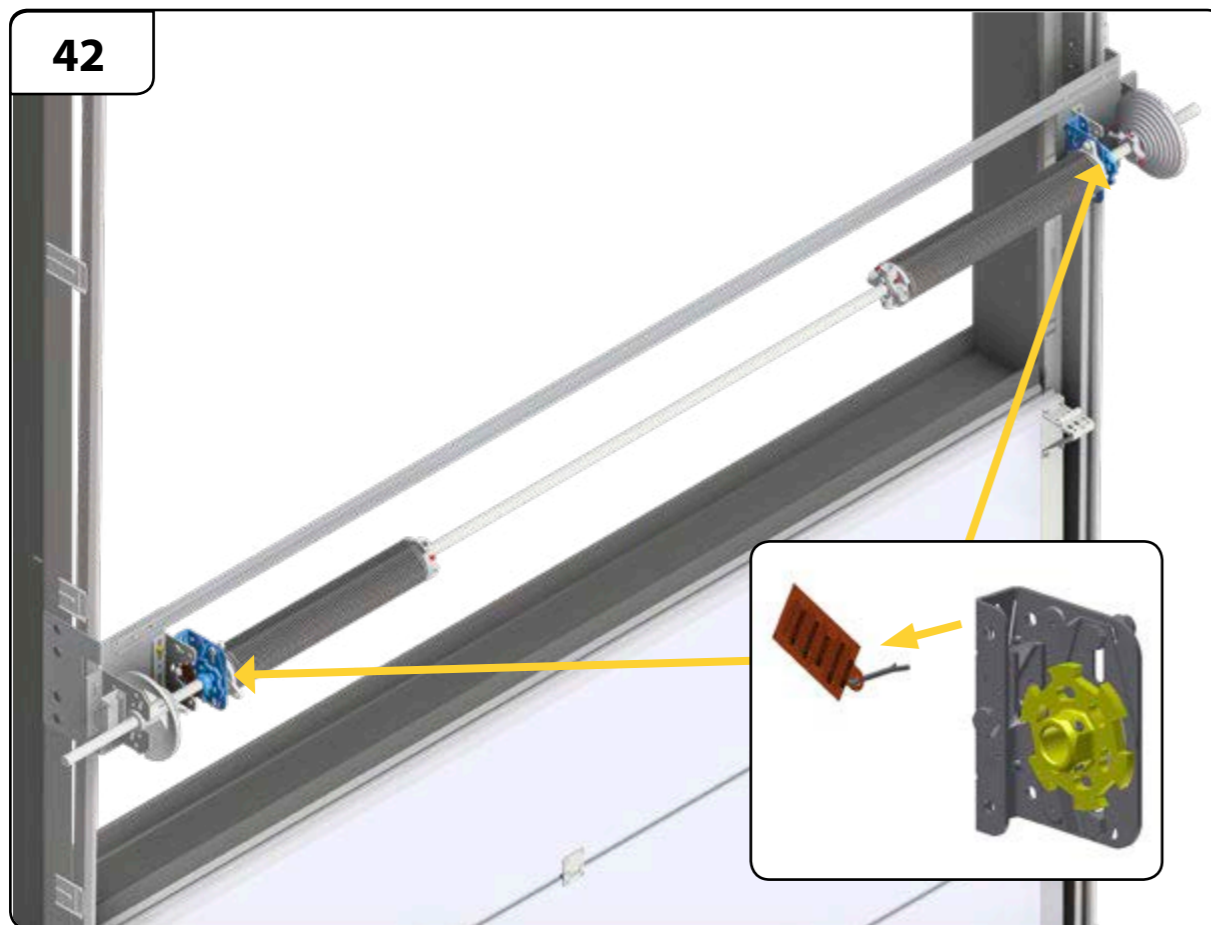
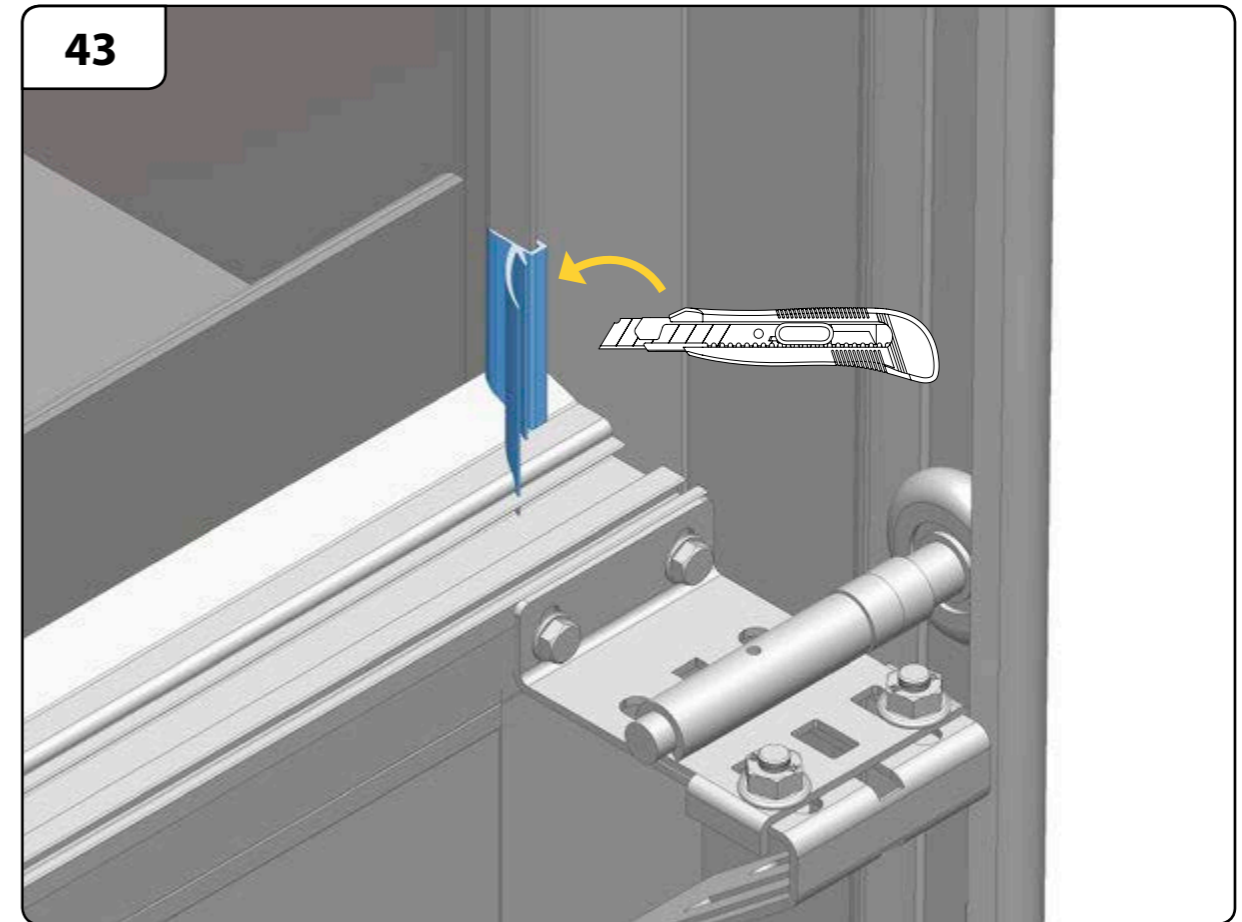
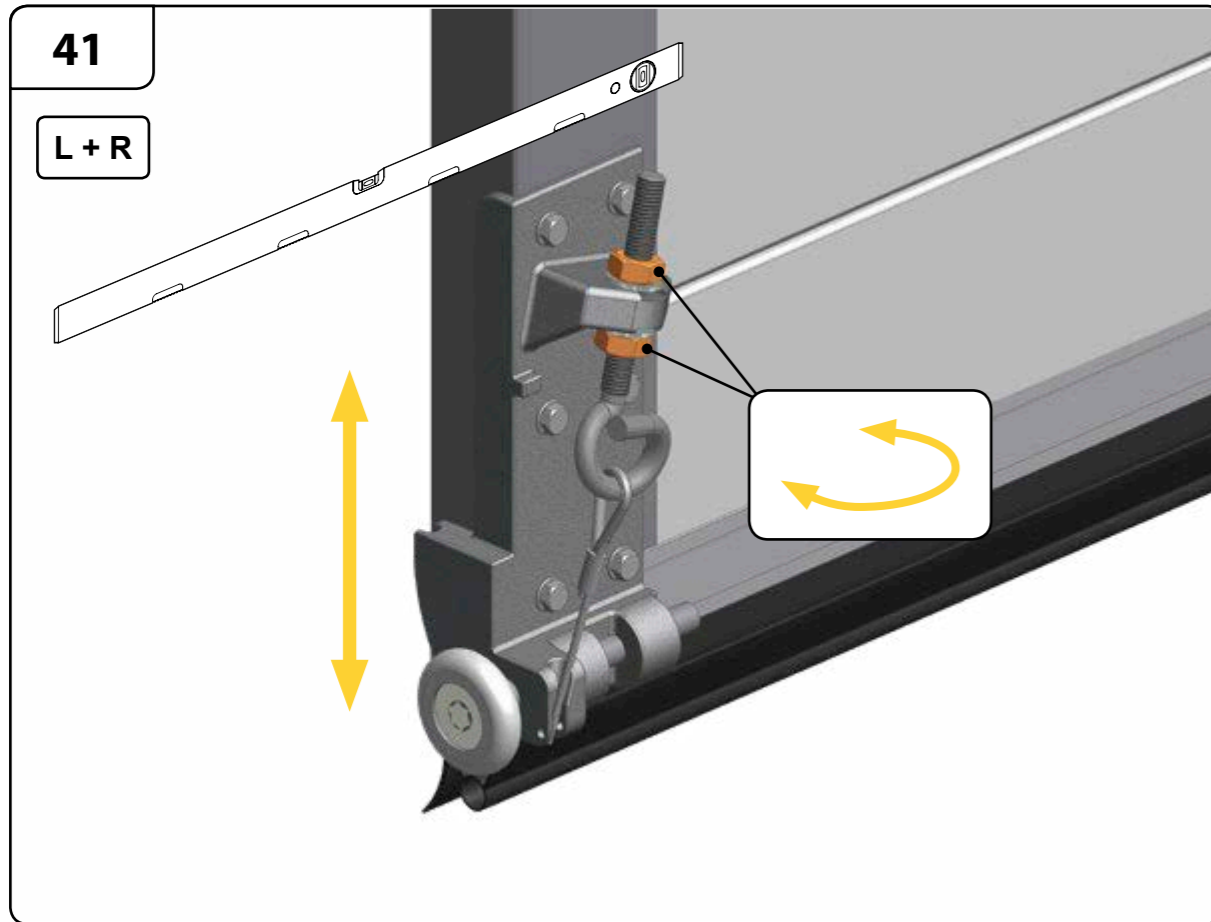


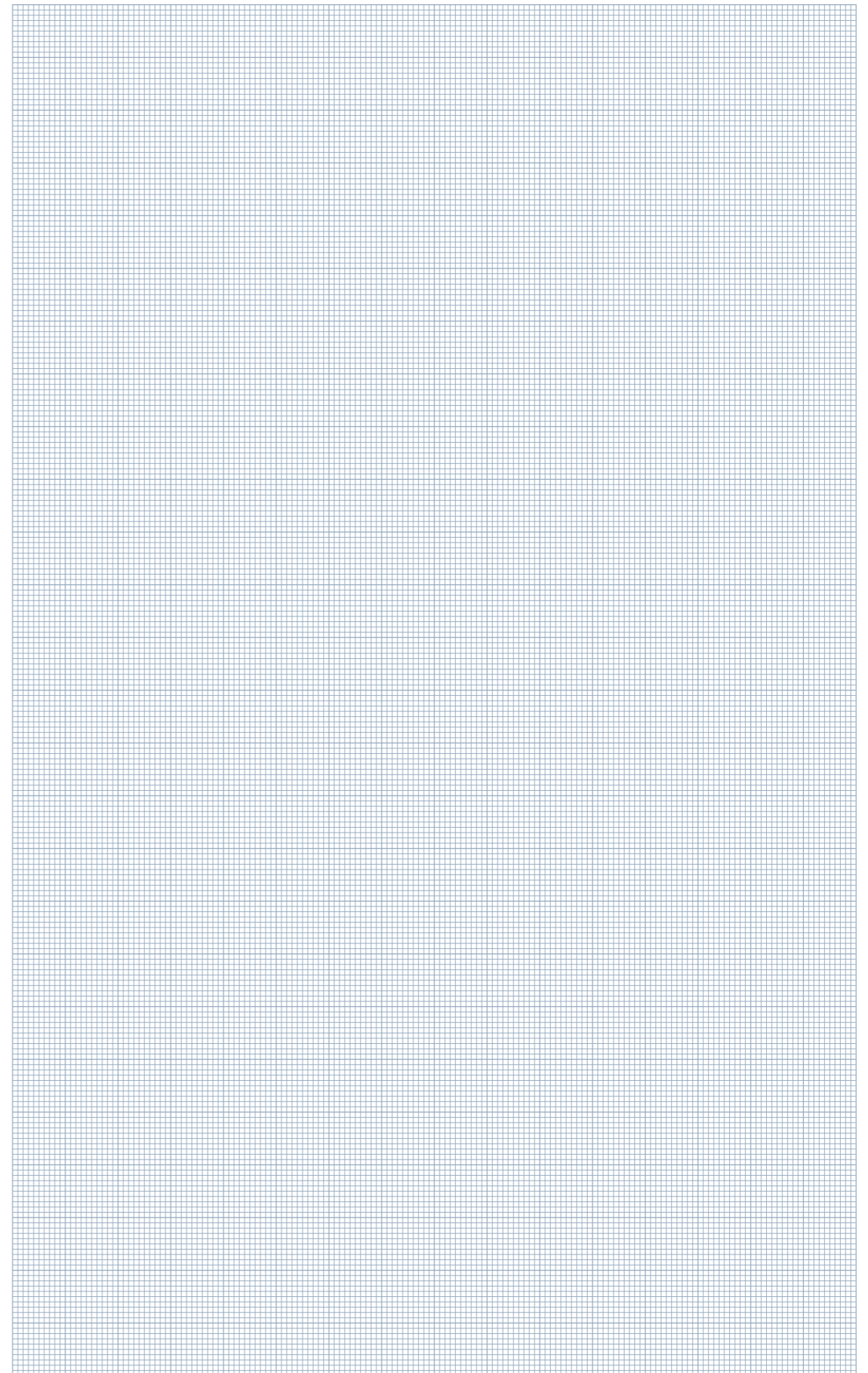
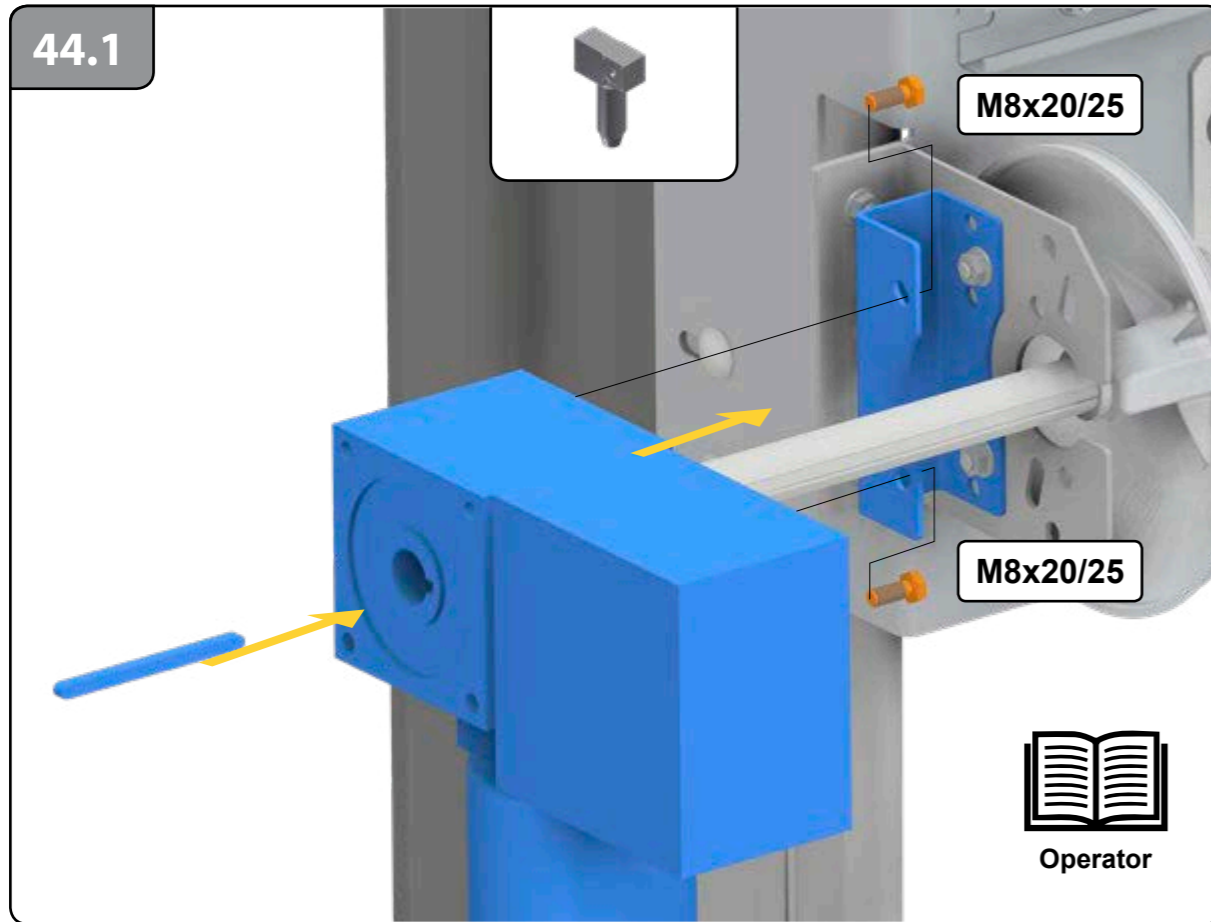




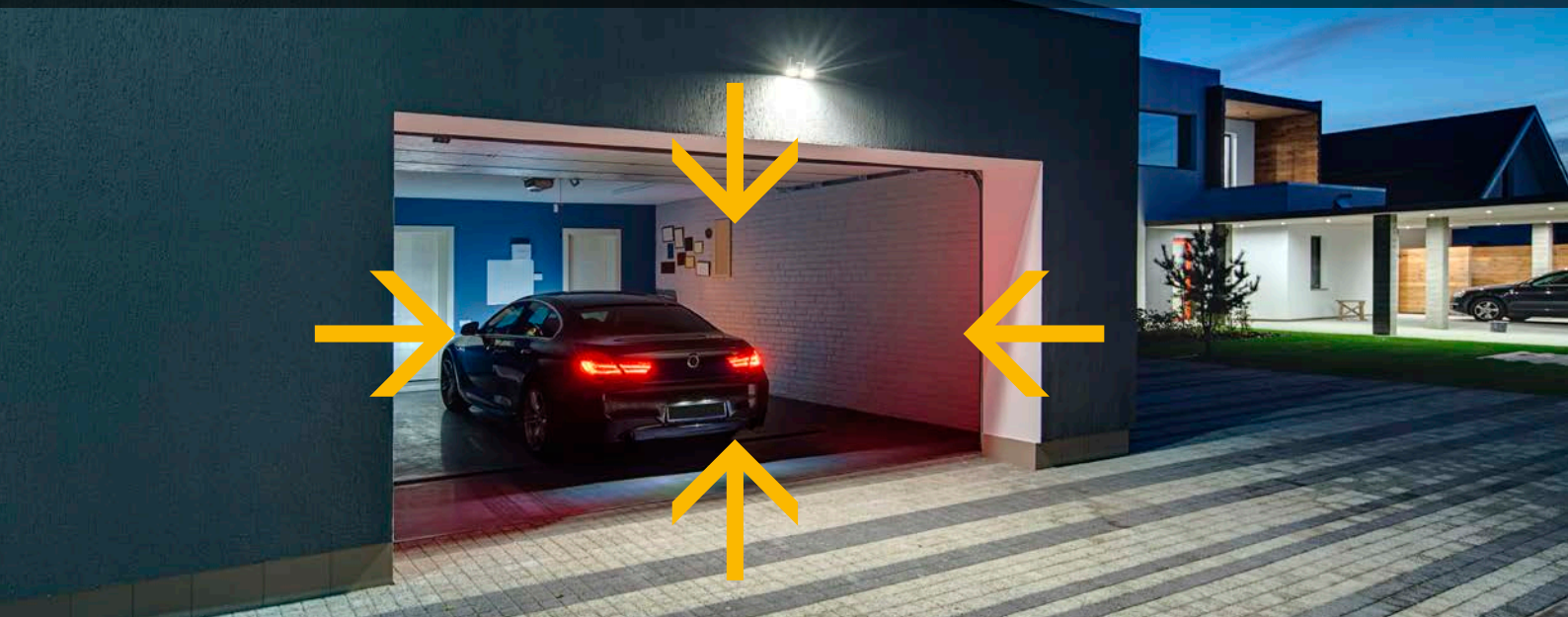








N A V R A T E C H Z Á L E Ž Í



JIMI TORE s.r.o.
Altýře 3285/1B
767 01 Kroměříž
Tel.: 573 335 480
Fax: 573 335 481
E-mail: info@jimi-tore.cz
www.jimi-tore.cz

TJIMI TORE

VÝROBA GARÁŽOVÝCH A PRŮMYSLOVÝCH VRAT