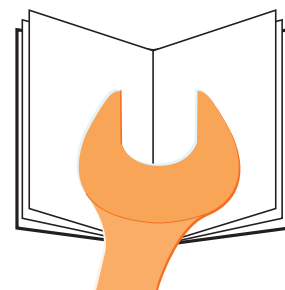


Assembly instructions

T240 - Electrically powered door / Manual operation



EN
T240



Table of contents

1. Introduction	
a. Order-specific details	1
b. Read this! Important information!	2
c. Safety precautions	3
2. Use of these instructions	4
3. Assembly instructions	4
4. Fixing of the cable	4
5. Cable run	4
6. Special attention Spring tensioning	5
7.1 Check the following High lift doors	5
7.2 Vertical lift doors	5
8. Pass door	5
9. Tolerances	5
10. Maintenance	5
11. Disassembly	5
installation	6

1. Introduction

1.a. Order-specific details

On the third interior panel on the right you can find a type plate with the order number of your door. Always state this number when contacting your dealer.

Type:

Order number:

Delivery date:

Service centre:

1.b. Read this! Important information!



Carefully read the complete manual before starting assembly!



The installation, repair, maintenance and disassembly of door must be carried out by a qualified expert (as per EN12635)



The expert needs to ensure that the national occupational regulations are met.



Upon operating the door, the qualified expert must check for potential hazards and satisfy himself that the door is balanced and functioning properly and can be operated by hand as per EN 12604 and EN 12453



This door may only be used at ambient temperatures between -30 and +40 degrees Celcius.



Because inside and outside temperatures may vary, a bi-metal effect may occur and cause the door panels to bend. The dark exterior colours may increase this effect and cause damage to the door when operated.



Upon failure of the door (no smooth operation or other disruptions) you should immediately contact a qualified technician to plan inspection or repair of the door.



This installation manual must be handed to the customer and must be kept in a safe place throughout the whole period of use!



Please secure the door leaf in place before working on springs and/or cables.

1.c. Safety precautions



For the correct and safe installation of the door, the following is important :

- **Carefully read the complete manual before starting assembly!**
- **Observe the applicable safety regulations!**
- **Always use the correct tools!**
- **Keep to the sequence given in the assembly drawings!**
- **Pay special attention to the dangers that can arise when tensioning the springs : use the special tools for this!**
- **Replace defective parts only with original spares. If you do not do this, the safe and proper operation of the door cannot be guaranteed! Further, in such a case the guarantee becomes void!**
- **The components to be used are made of high quality, durable and solid materials. However, these components must be mounted with great care to avoid damaging them!**
- **Please check whether the supplied fixing materials are suitable for the building's structure.**
- **Failure to follow these instructions can result in serious injury or material damage!**

2. Use of these instructions

These assembly instructions are based on the basic model of the insulated door. These instructions also apply for the other types of door. In this case the drawing number is given in a grey field (instead of black). The position numbers in the assembly drawings refer to the parts list in the manual.

3. Assembly instructions

The door should be fixed to steel sections, or a concrete construction that is strong enough to withstand the force of the wind against the door. At the main axis the construction must be strong enough to support the door suspension mechanism. The spring supports should be sturdy enough to be able to withstand the torque created by the spring mechanism. Internally, there must be sufficiently strong fixing points for mounting the horizontal rails. You are advised not to mount the doors directly onto plaster work, plaster or other types of aerated concrete. It is possible to mount a suitable steel frame first. For information concerning this, contact your supplier.

The following materials can be used for mounting:

Surface	Description
Concrete	Concrete anchors M8x75 (Alpha 9615075)
Steel	Sheet metal screw 8 x 24 (galvanized) (Alpha 9506014). DIN 6928
	Set self-tapping screws 6.3 x 32 (Alpha 9615030-50). DIN 7504K
Concrete / hout	Fasteners for concrete and wood (Alpha 9500020-25). DIN 571

4. Fixing of the cable

In the case of High lift and Vertical lift doors the cable length to the fixing point on the cable drum needs to be exactly as specified. The non-active length and the cable overlength (see figure 3.6.1) are shown on the packing list in the accessories carton delivered with each door. The non-active length (A) is the length of cable which is wound on the drum when the door is in the closed position. The cable overlength is the remaining length of cable which is then passed through the fixing hole in the drum and fixed in place. NB! The cable must not be twisted; first completely unroll!

5. Cable run

The bearing plates need to be correctly aligned in order to achieve the correct cable run. The door is supplied with adjustable bearing plates for this purpose. Figure 3.1.1 in the installation manual shows the slotted holes in the bearing plates allowing side adjustment. As the door opens the cable is wound onto the cable drum and moves sideways towards the middle of the door. The bearing plates need to be mounted as far to the outside of the door as possible.

6. Special attention Spring tensioning

The number of turns for the correct spring tension is indicated on the type plate mounted on the third panel from the bottom. One turn is 360°. The left hand spring (right-hand winding) is marked with red paint and the right hand spring (left-hand winding) with blue paint.

7.1 Check the following High lift doors

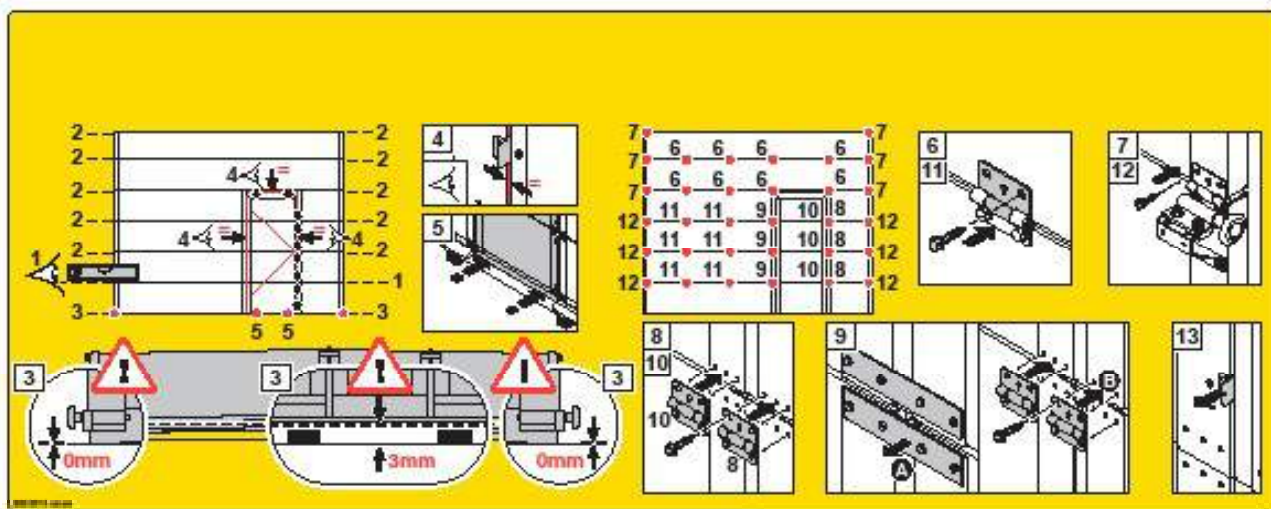
The cable should pass from the conical section of the drum to the horizontal section when the top panel section moves into the horizontal area of the J track.

7.2 Vertical lift doors

The drum should be fully wound with cable when the door is in the open position. If the door cannot be correctly balanced, then the cable overlength or the number of spring turns need to be adjusted. **Note! The maximum number of extra turns of the spring is 10% of the specified number of turns.**

8. Pass door

The bottom door panel should be placed horizontally in the door opening using a spirit level. As the door is further assembled more and more pressure will be applied to this panel: to avoid distortion of the panel it should be supported using spacers in the pass door cut-out area (see fig. 3.5.1). The spacers can be placed under the bottom beam. The bottom section in the area of the pass door should be supported using spacers, so that dimension X = X. The subsequent panels should be installed in such a way that the pass door panels line up with each other (see figure 3.5.3). Any small size variations are moved in this way to the end cap side of the pass door. The pass door hinges should be installed panel by panel, i.e. before the next panel is placed.



9. Tolerances

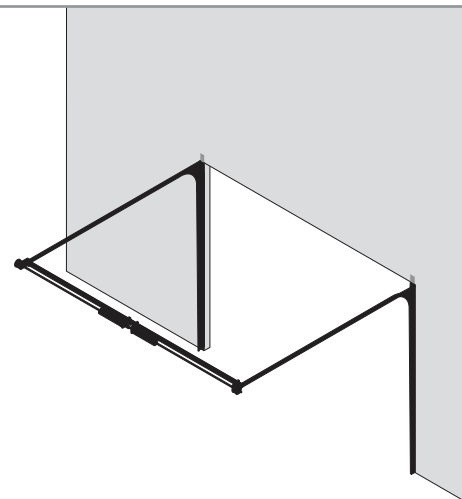
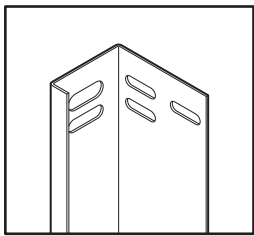
All parts are produced with the utmost care to standard tolerances. The standard tolerance for steel parts is ± 2 mm, and for aluminium ± 1 mm. The maximum tolerance for assemblies is the sum of the tolerances for the various materials.

10. Maintenance

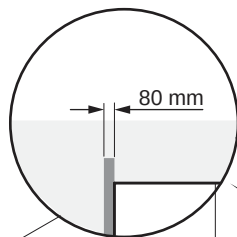
For this, see the directions on the type sticker. **To prevent corrosion, protect the door against aggressive and corrosive agents such as road salt, alkali and saltpetre reactions from masonry.**

11. Disassembly

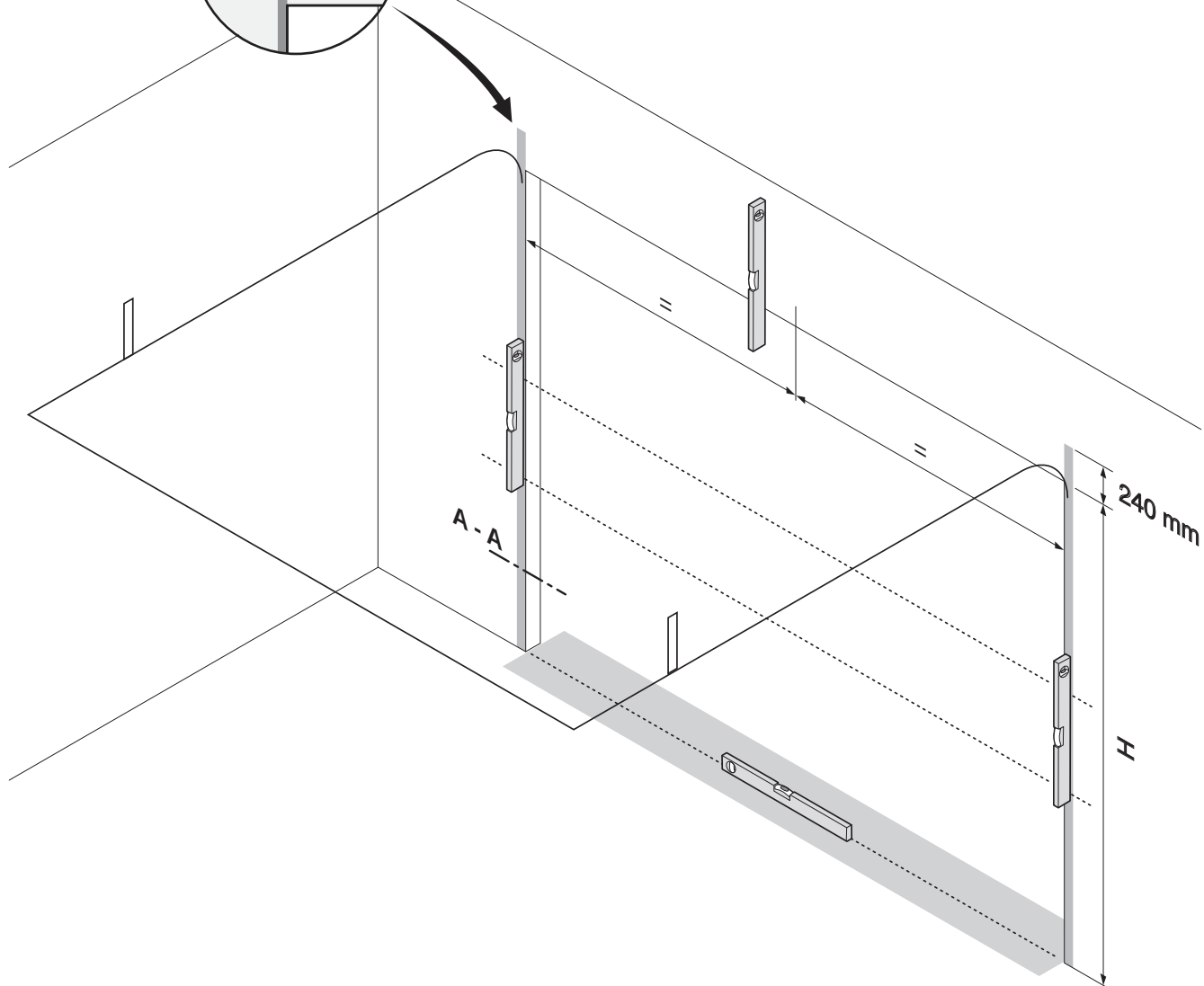
The door should be disassembled in reverse order by a qualified expert.



L+R



80 mm



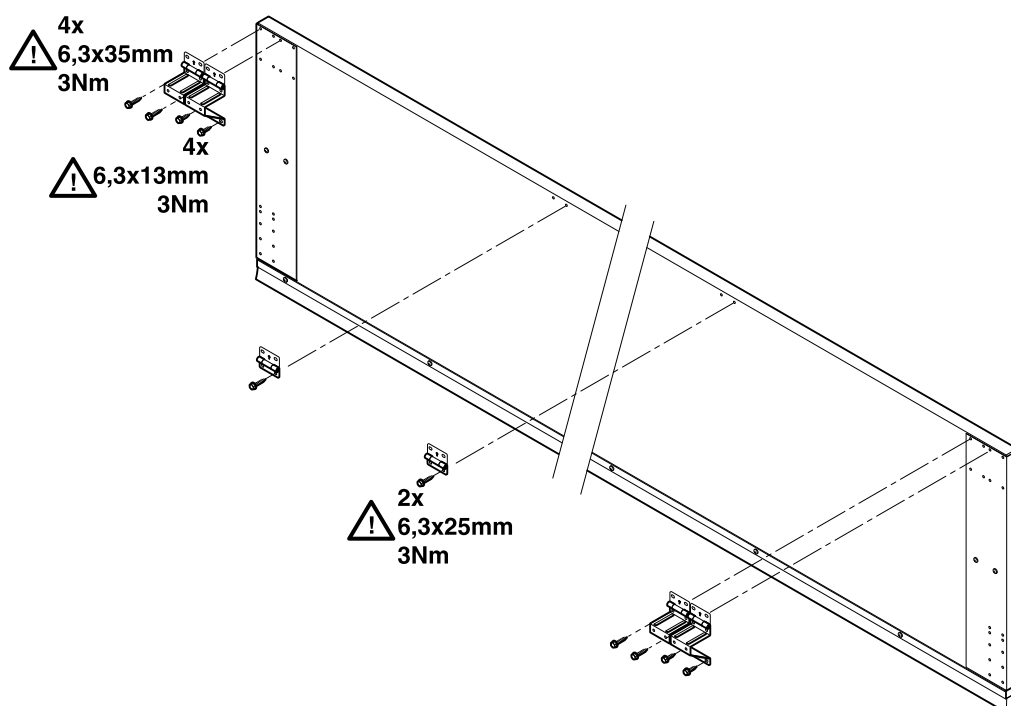
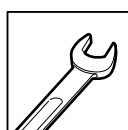
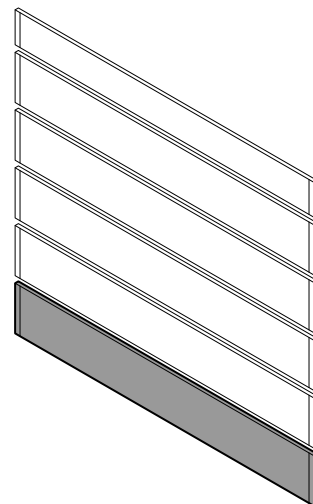
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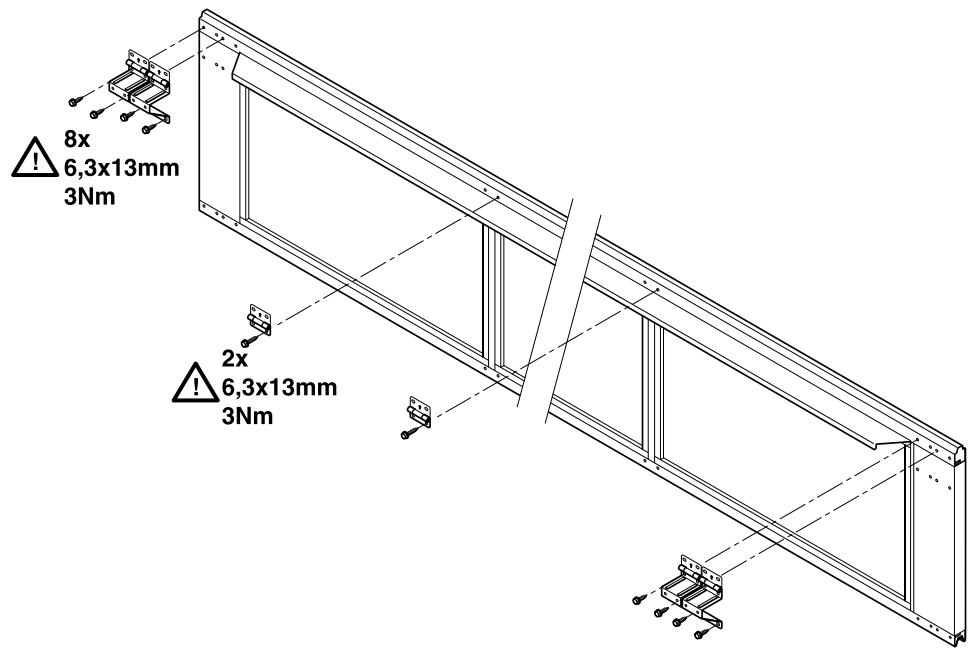
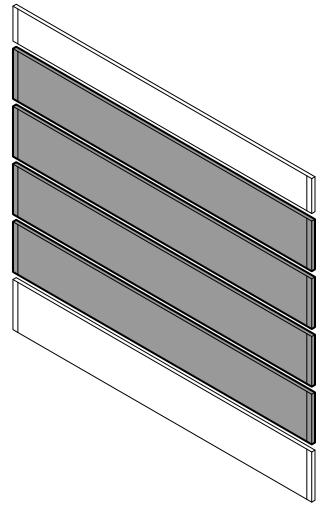
240 mm

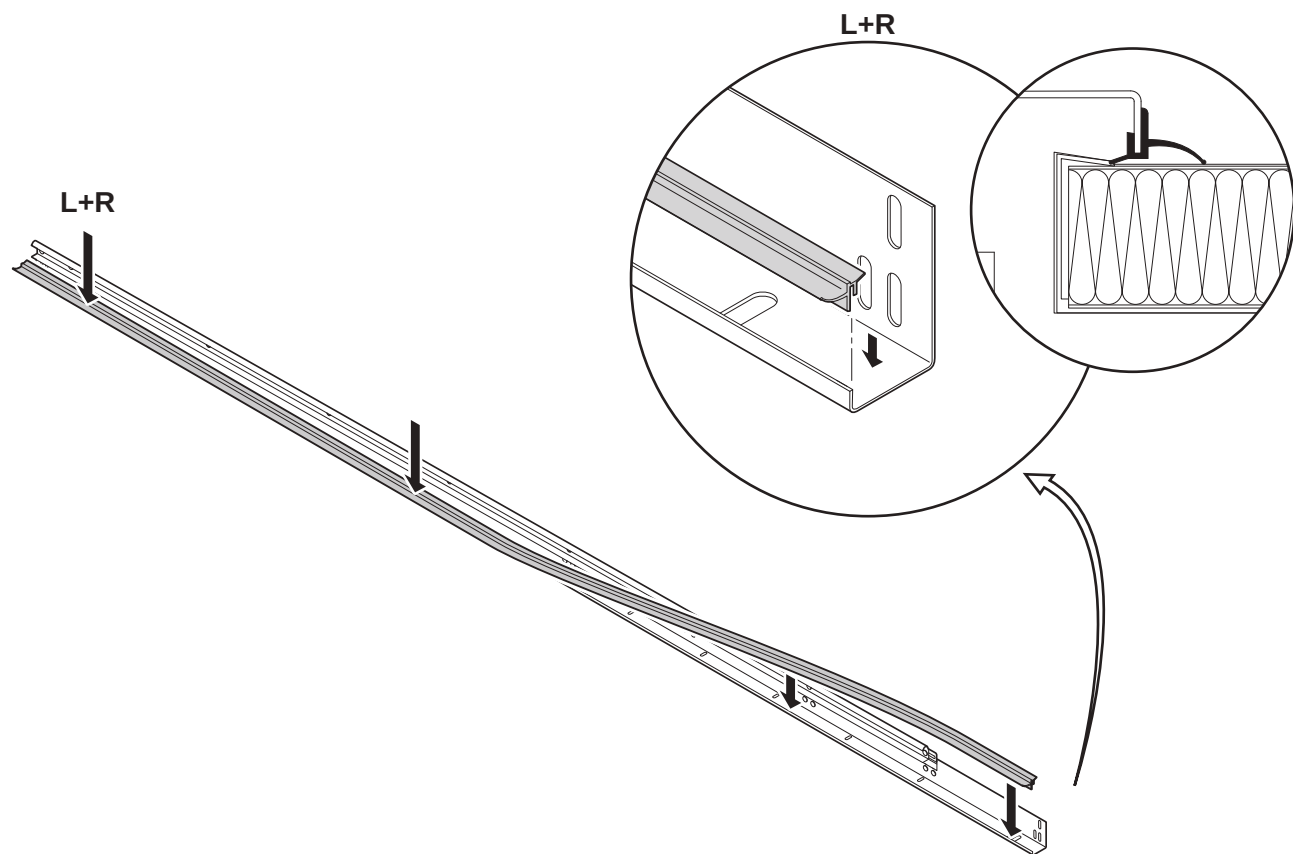
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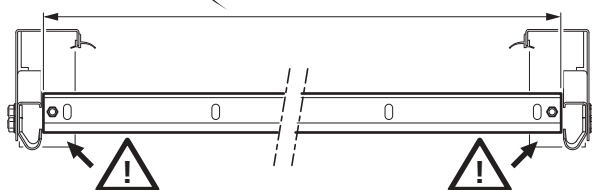
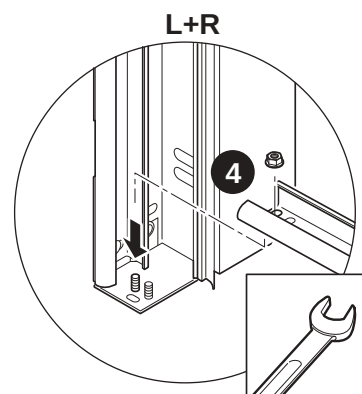
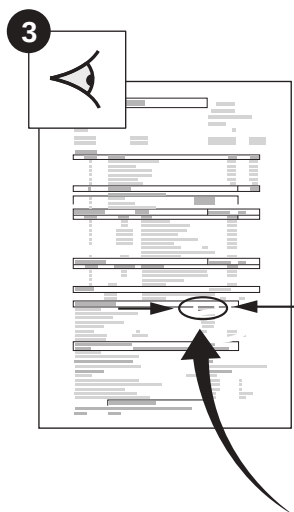
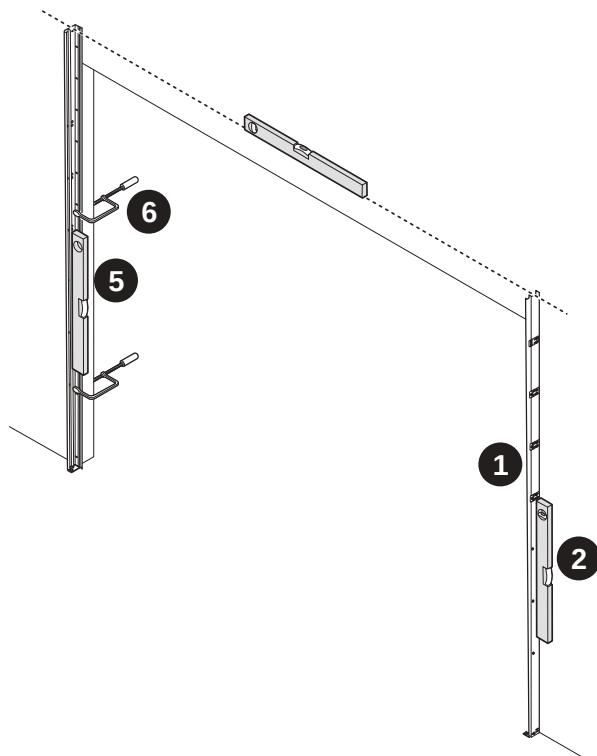
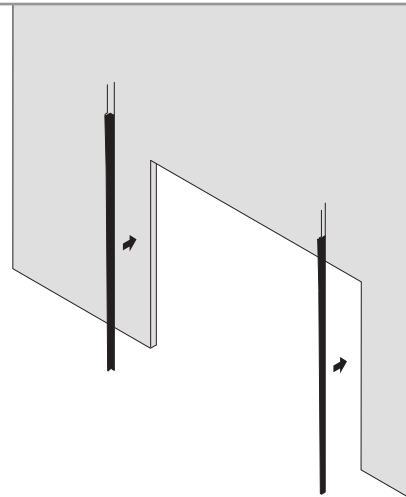
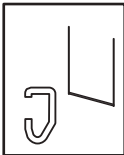
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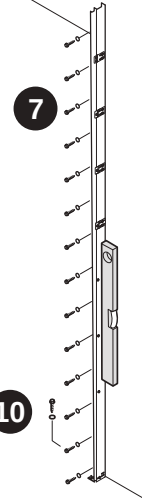
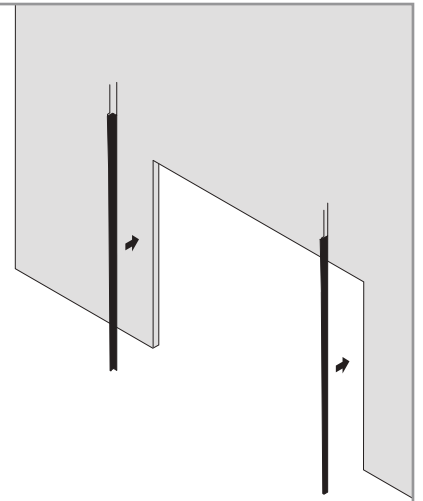
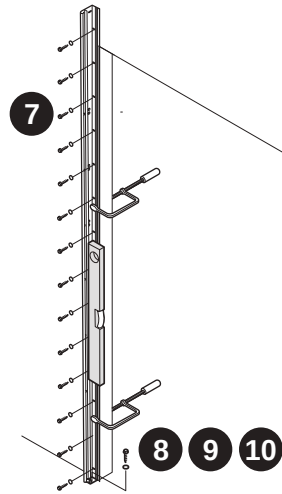
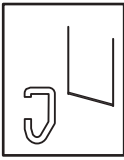




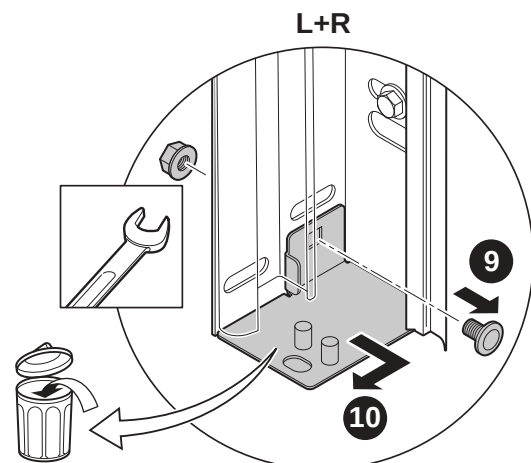
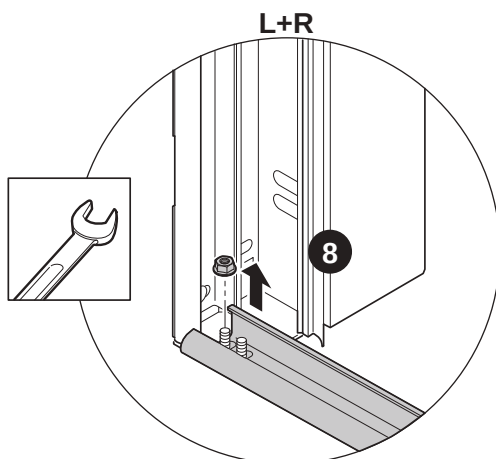
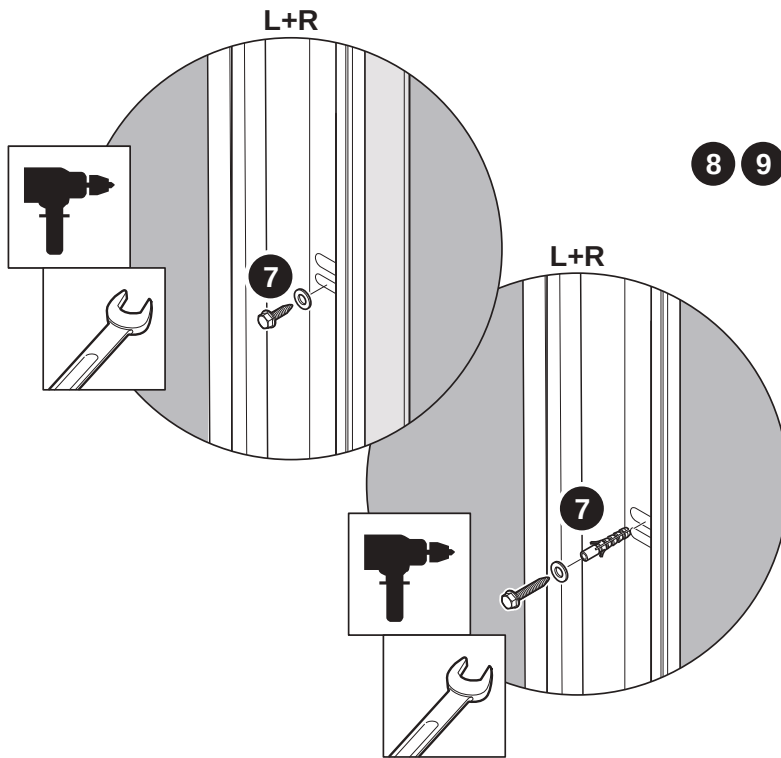


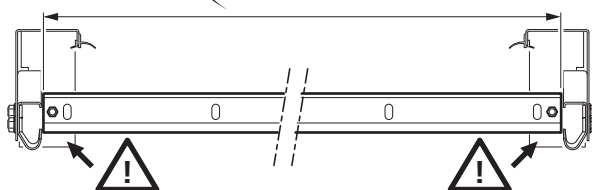
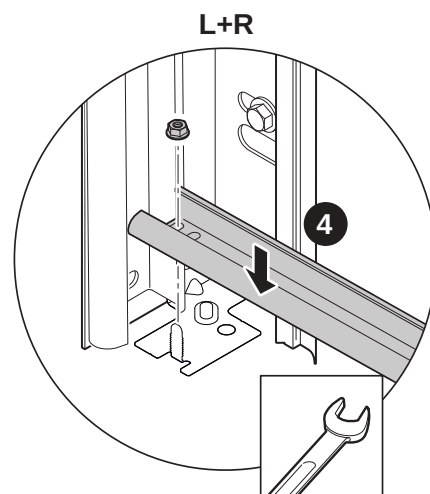
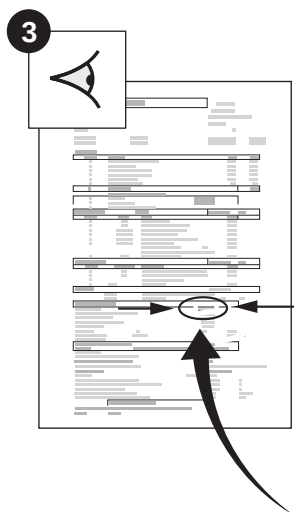
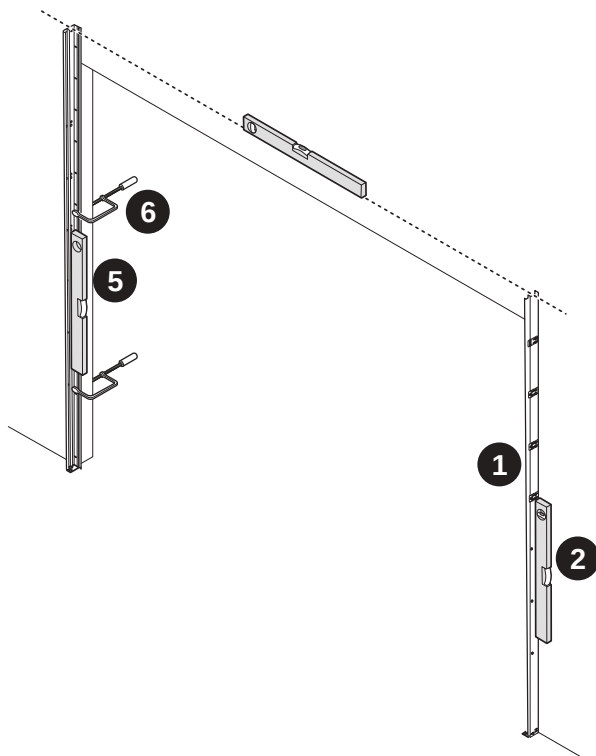
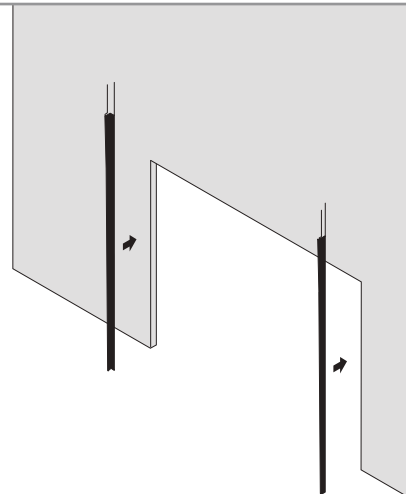
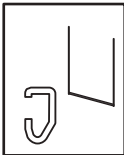


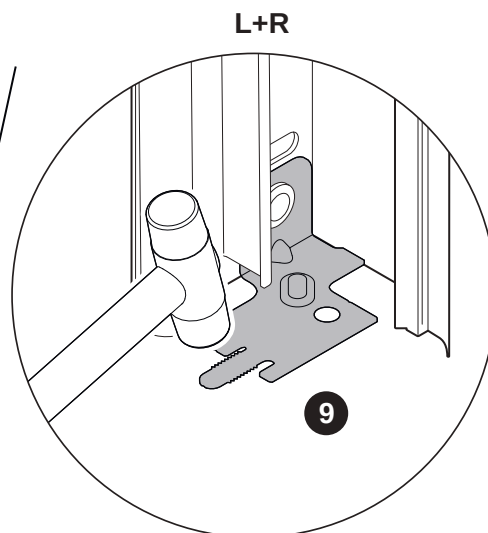
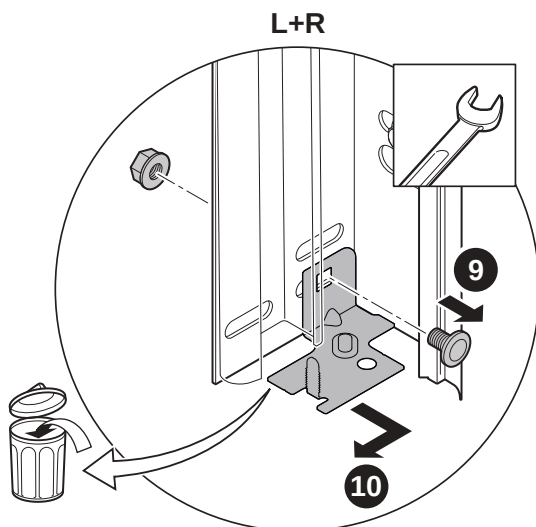
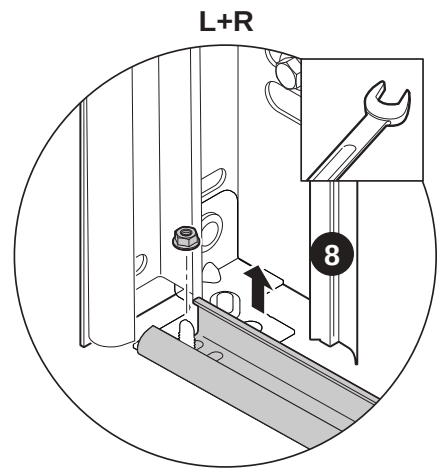
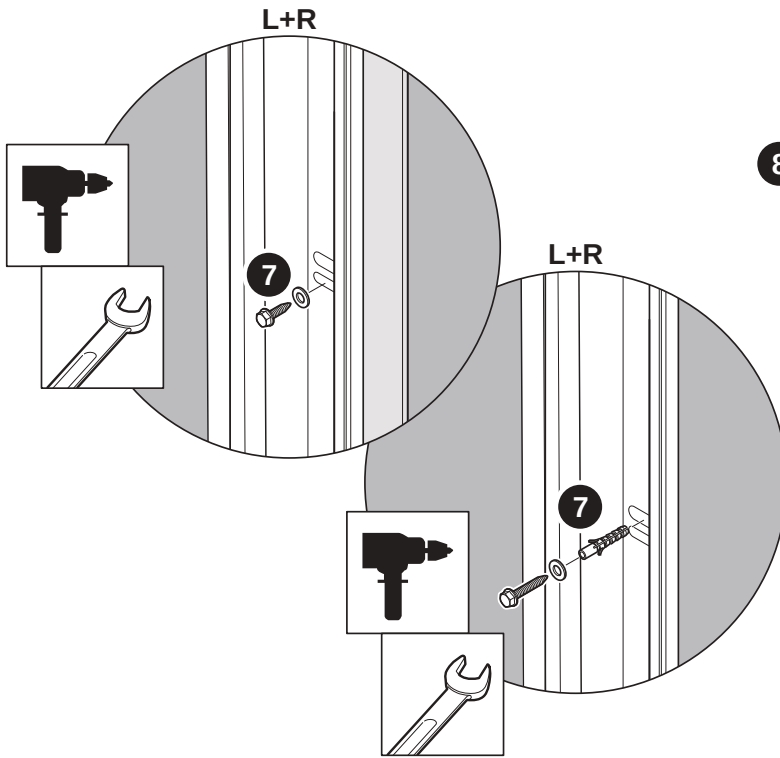
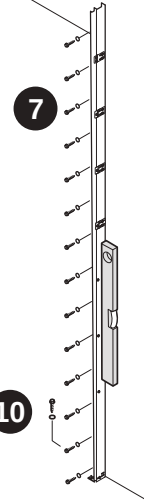
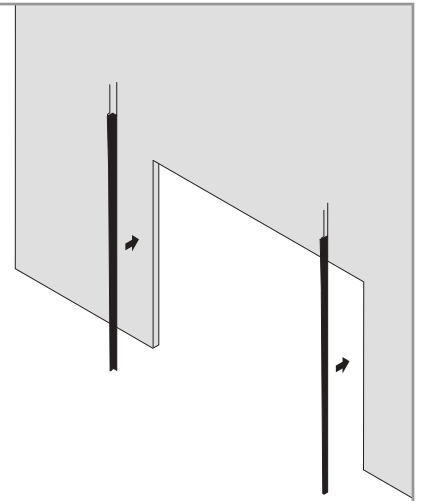
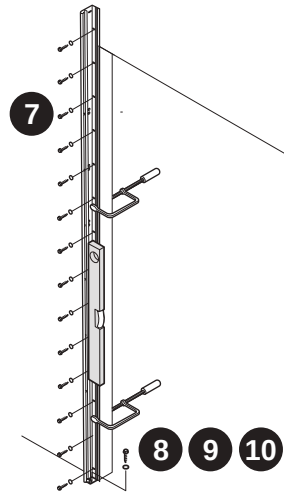
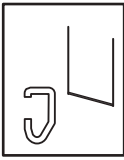


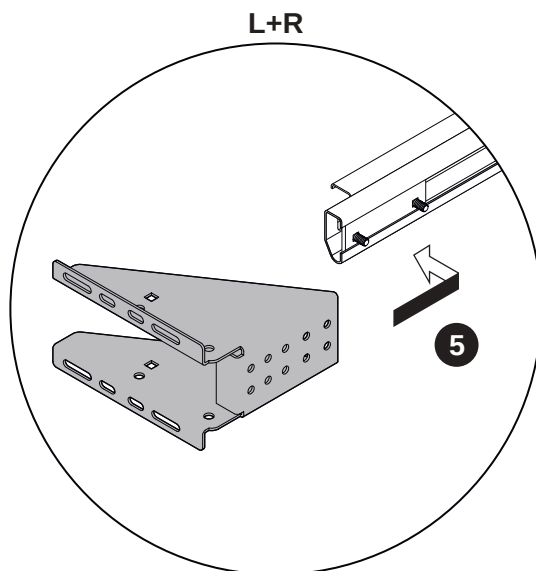
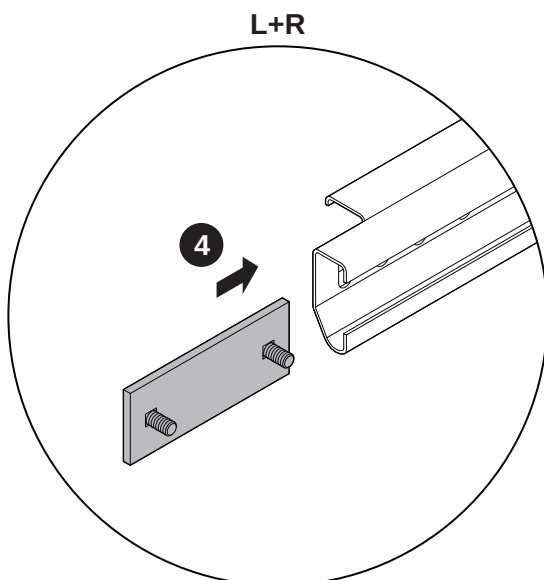
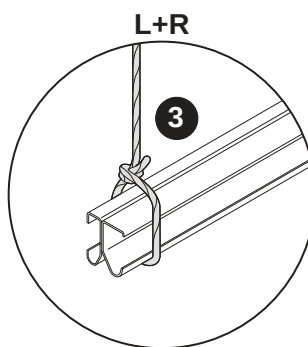
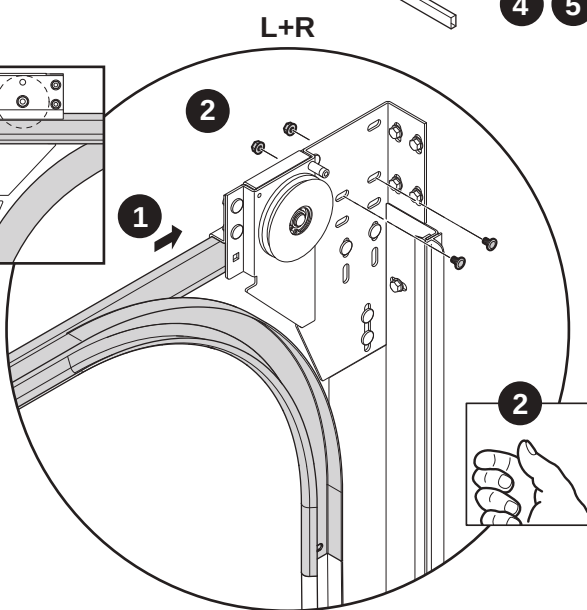
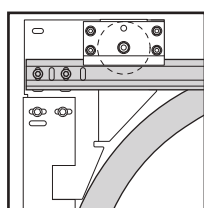
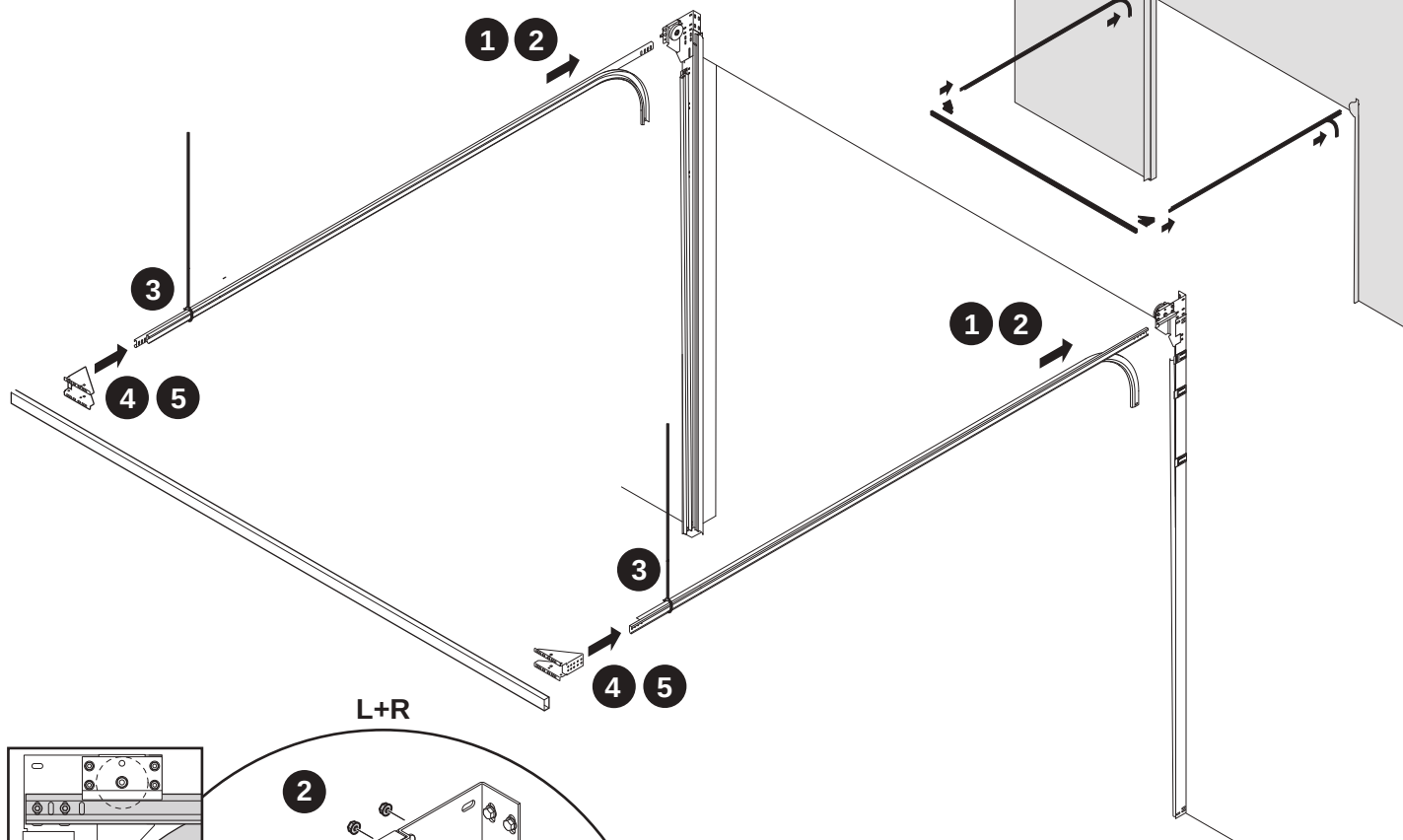
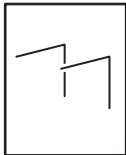


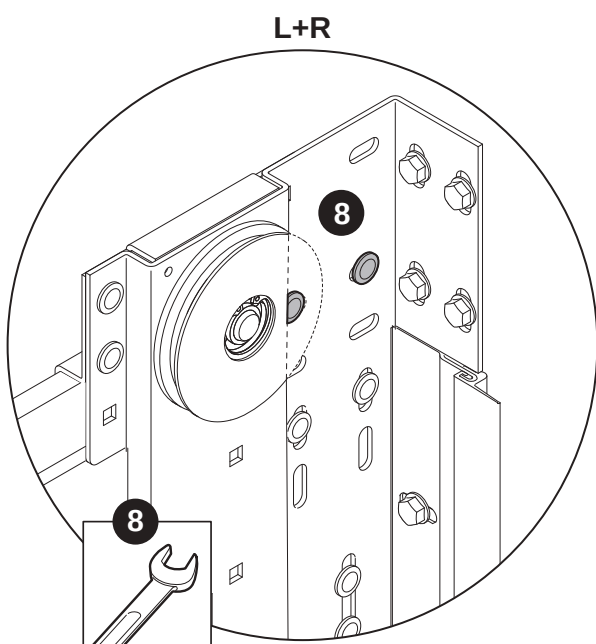
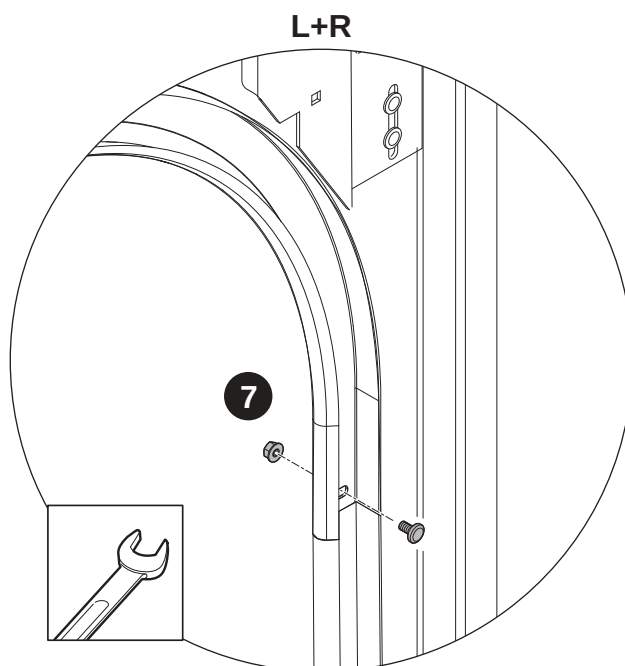
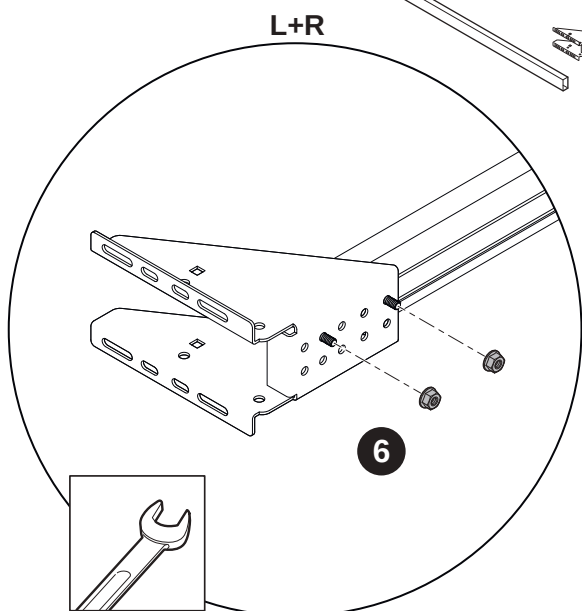
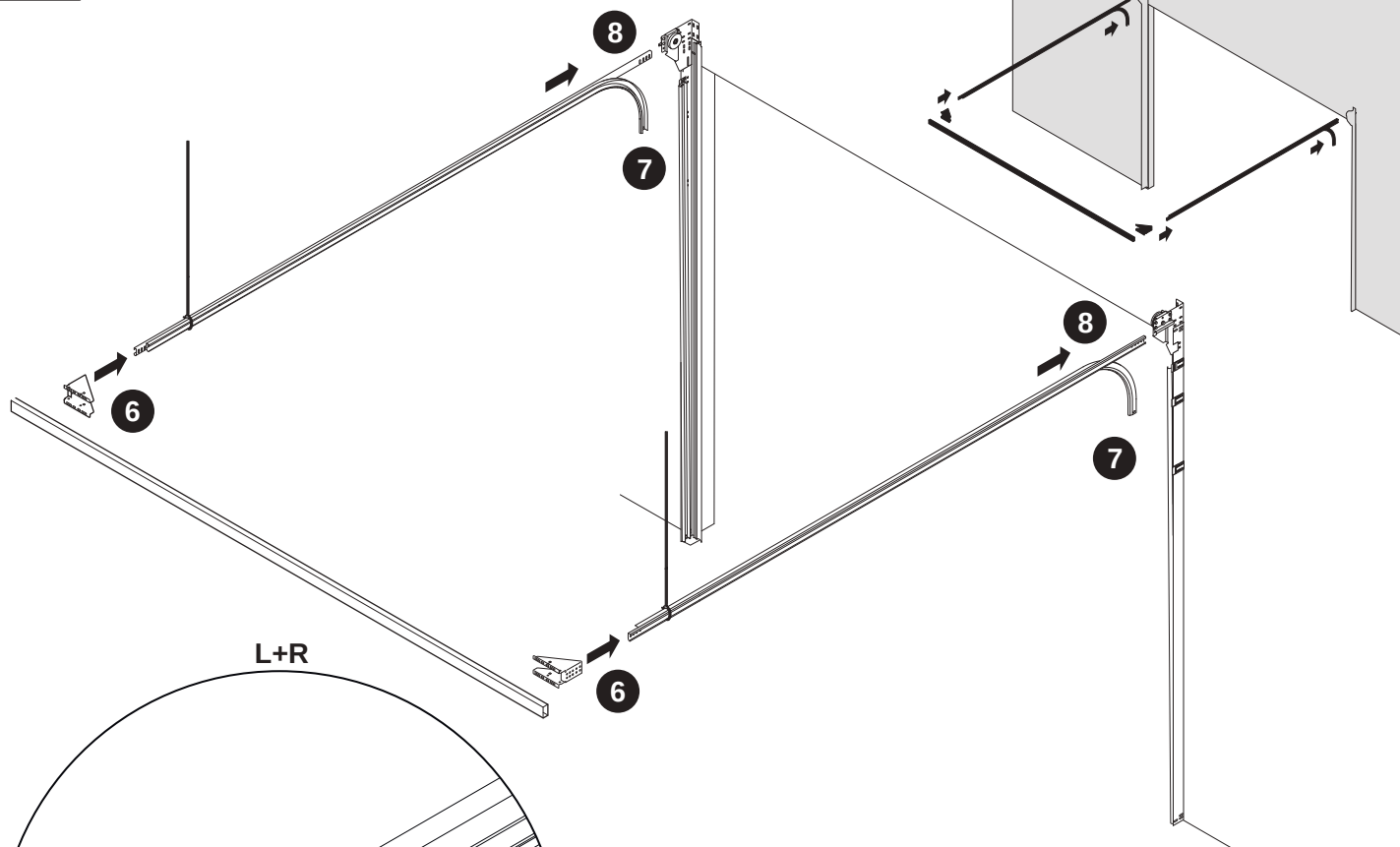
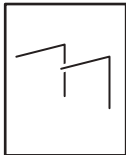
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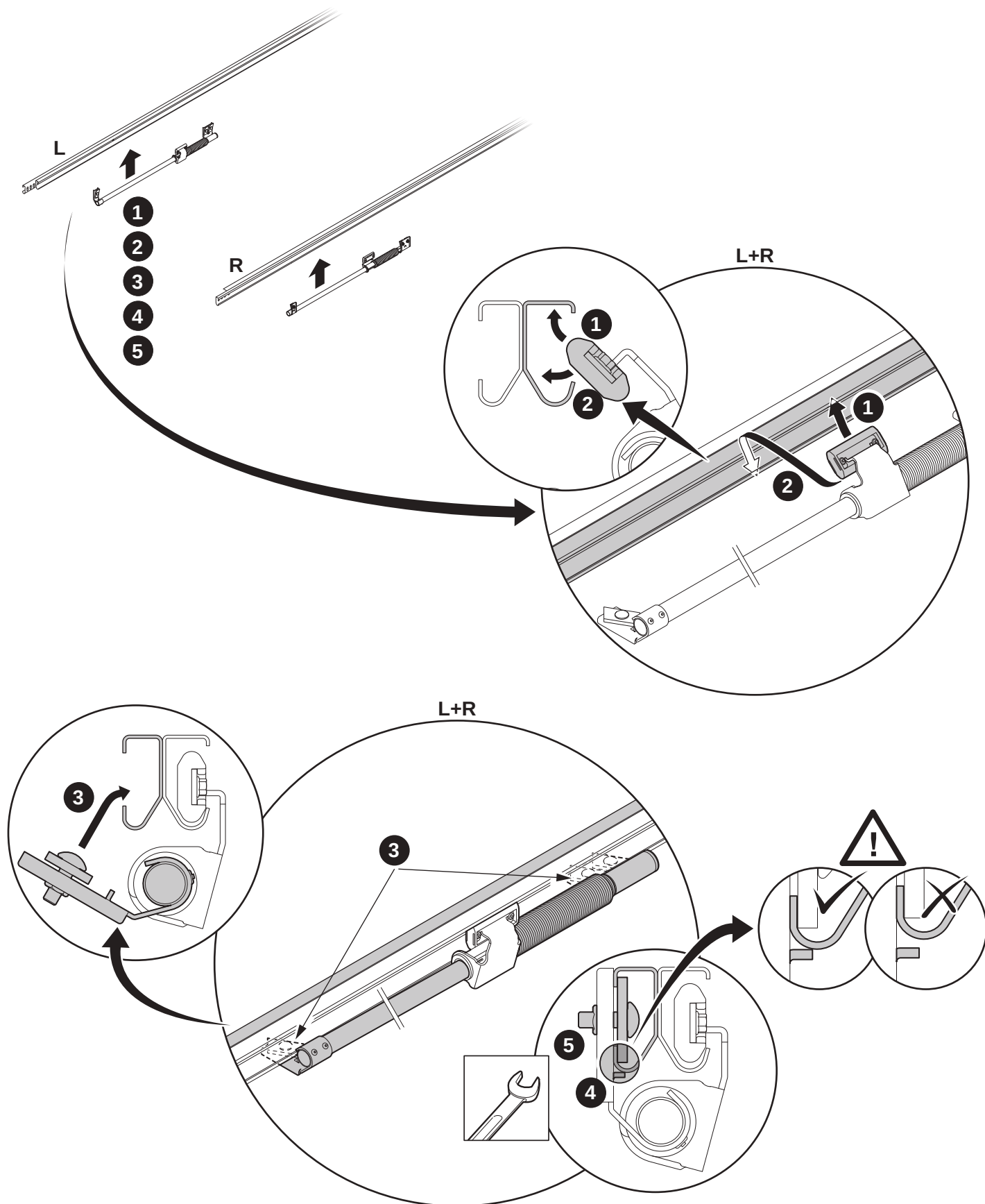
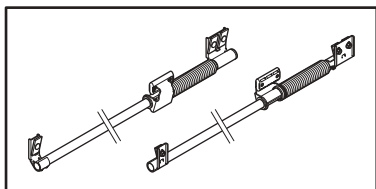


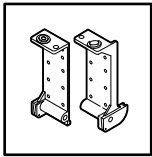




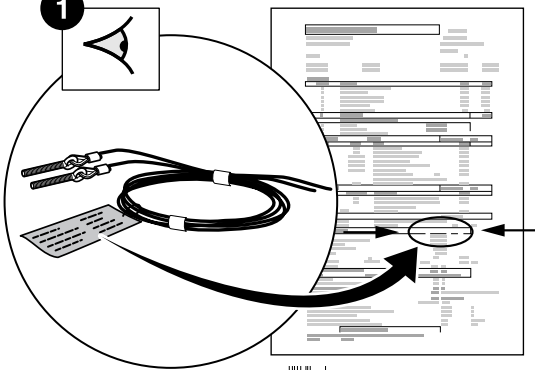








1



A

B

A

8

B

A

2



10x
6,3x35mm
3Nm



L

R

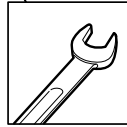
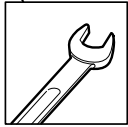
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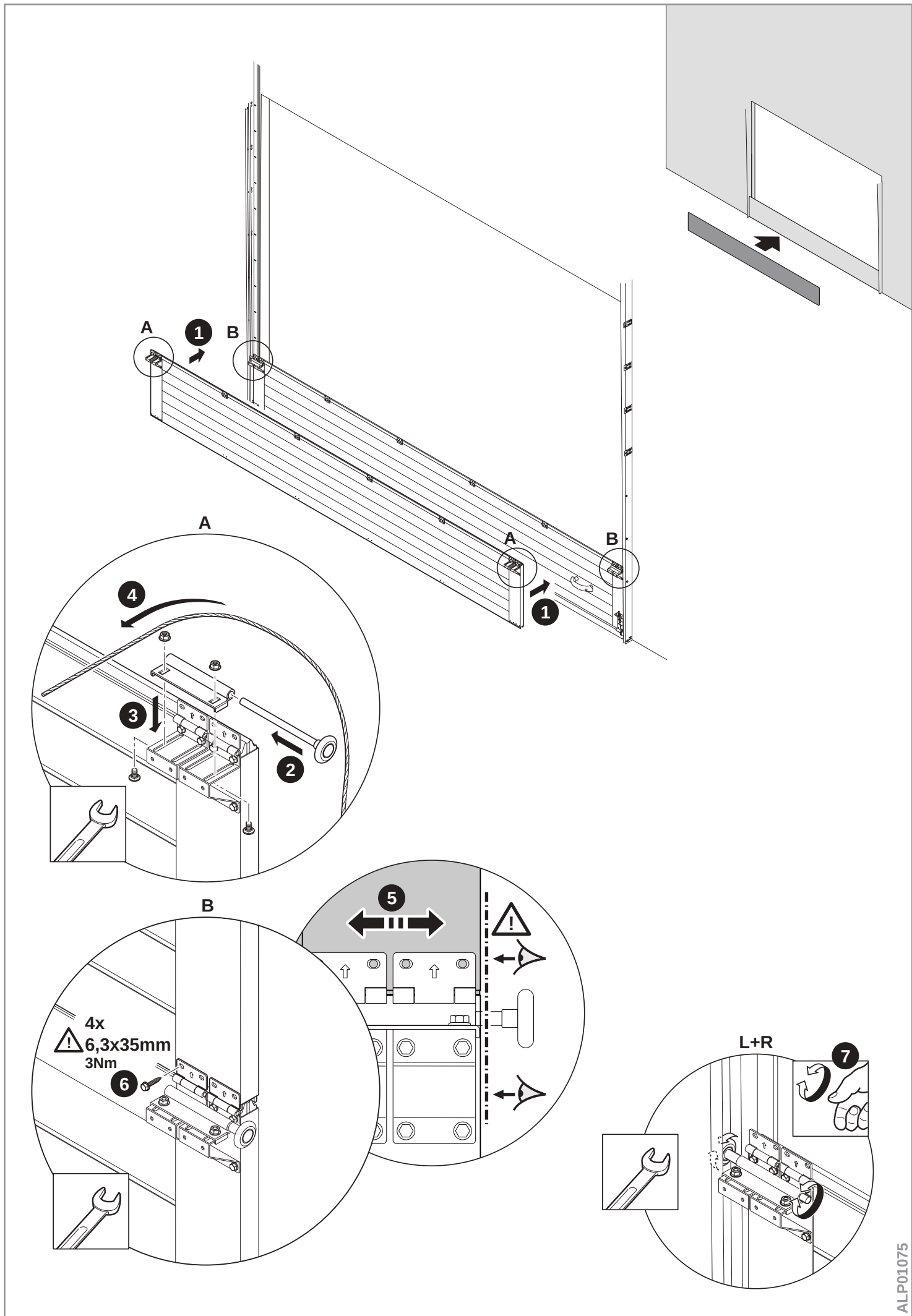
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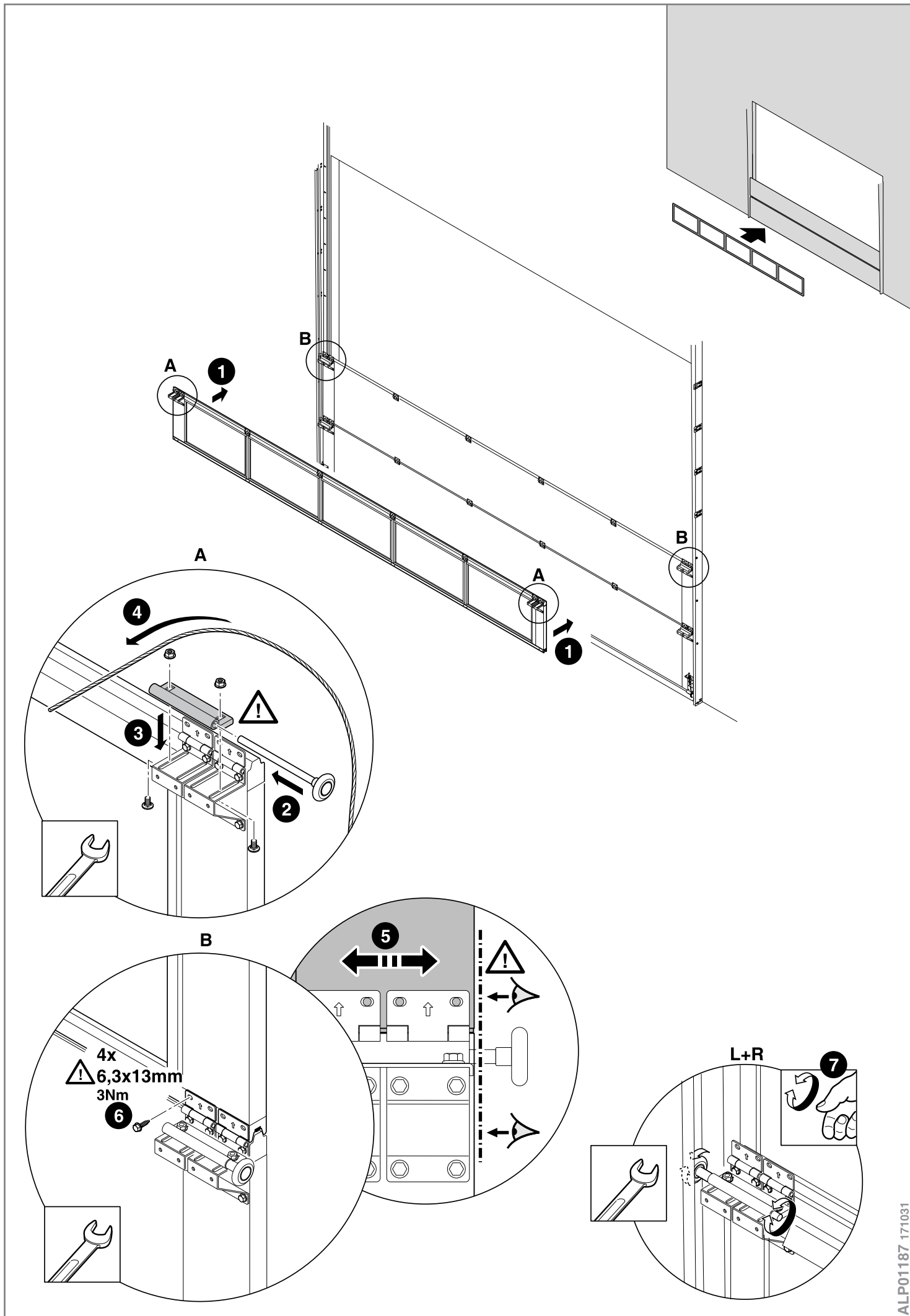
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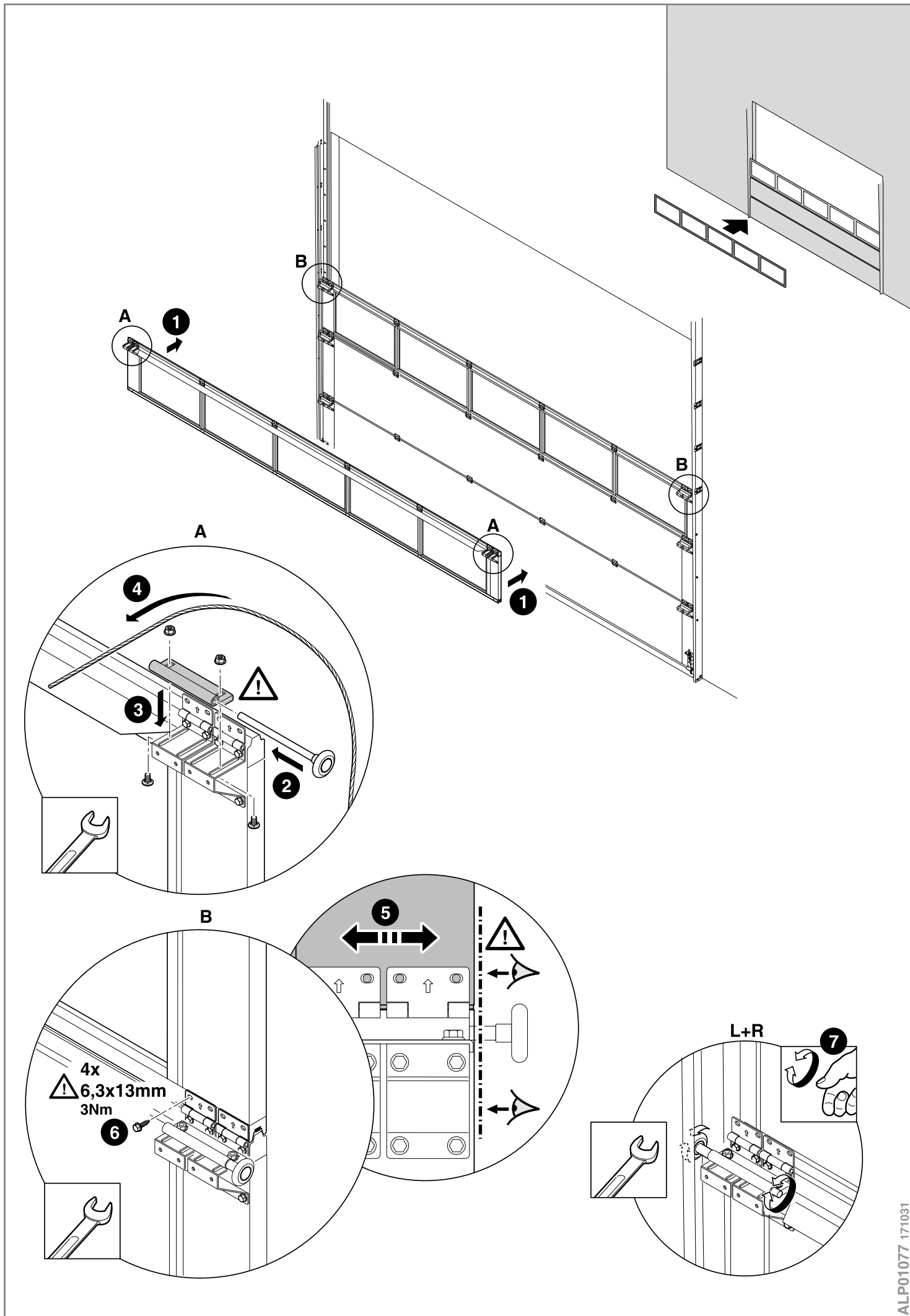
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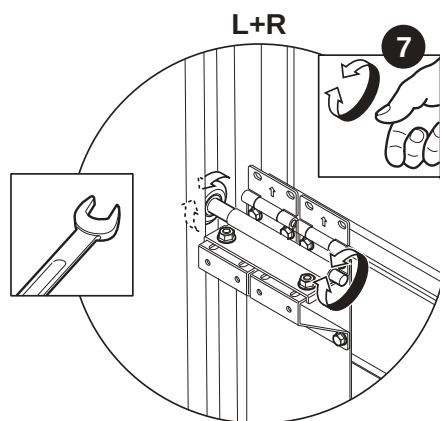
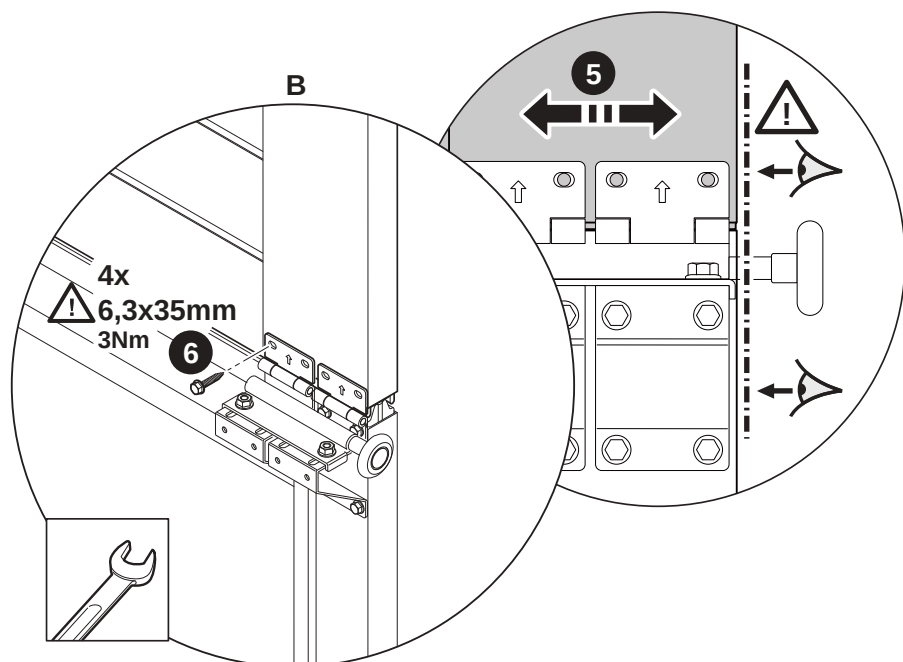
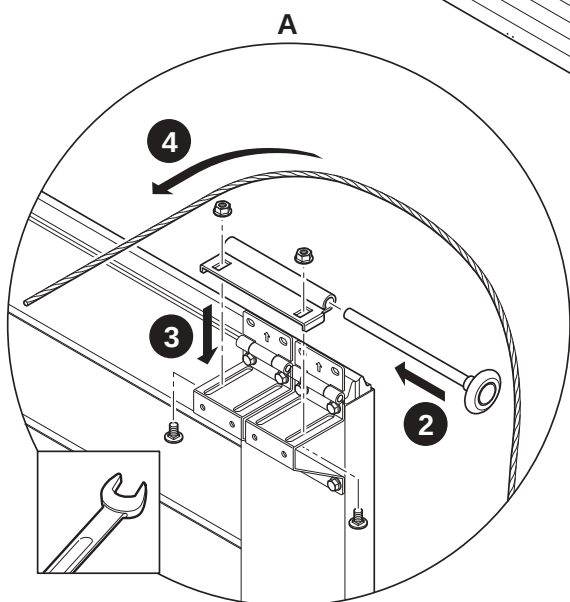
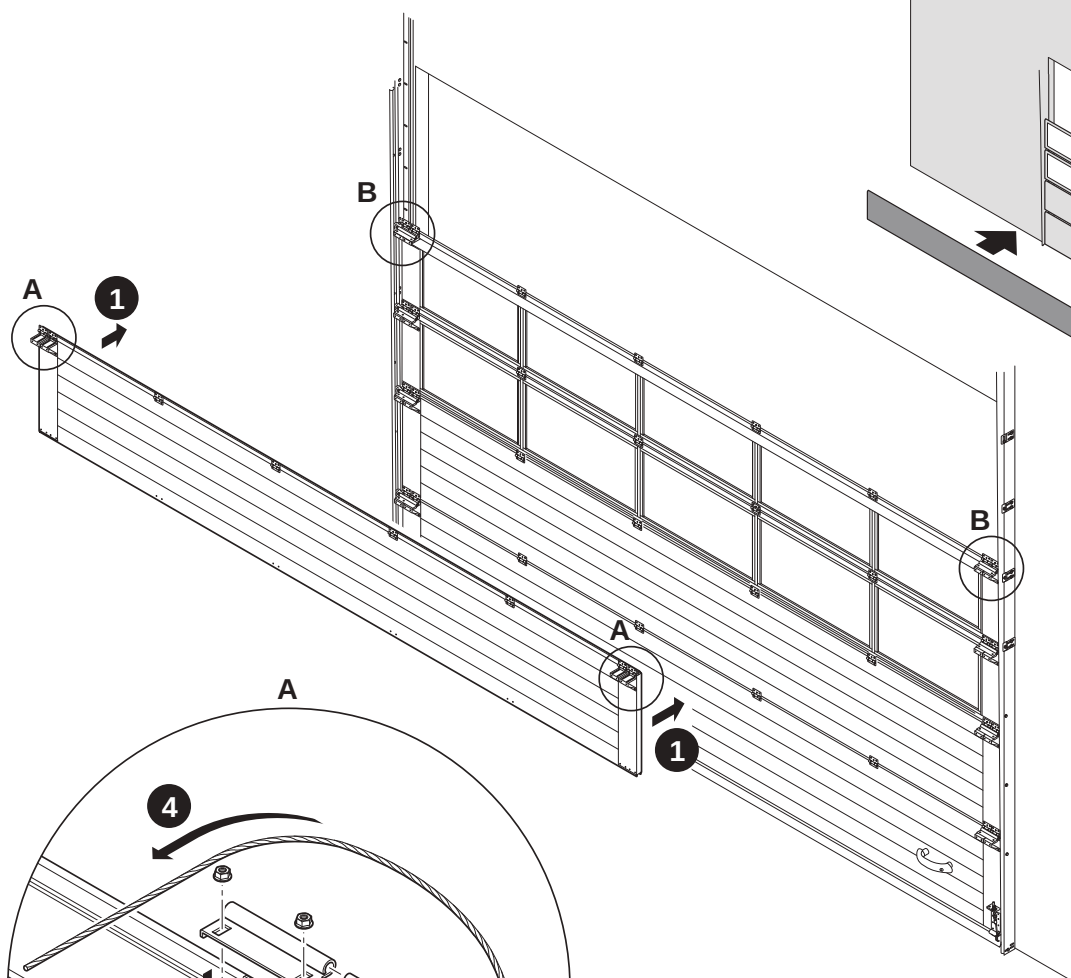
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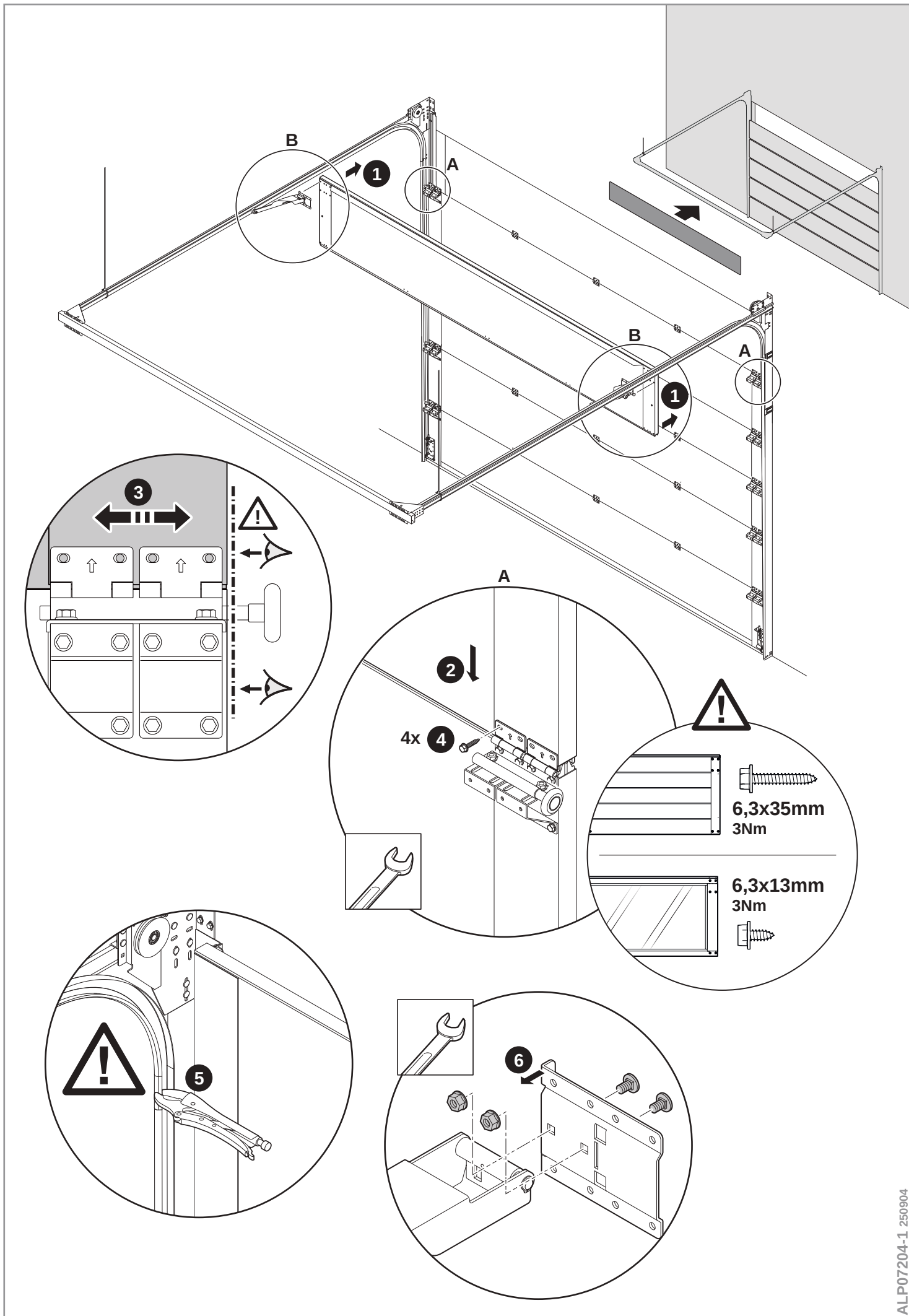


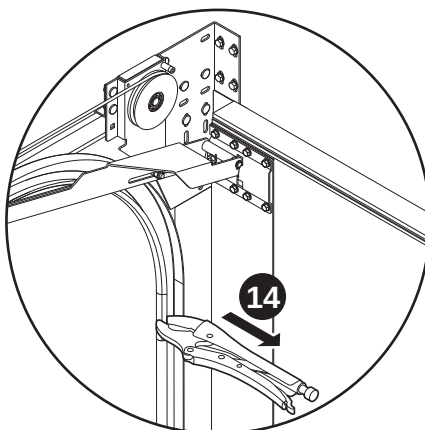
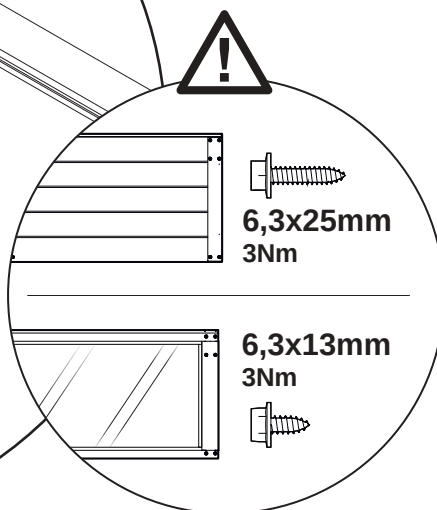
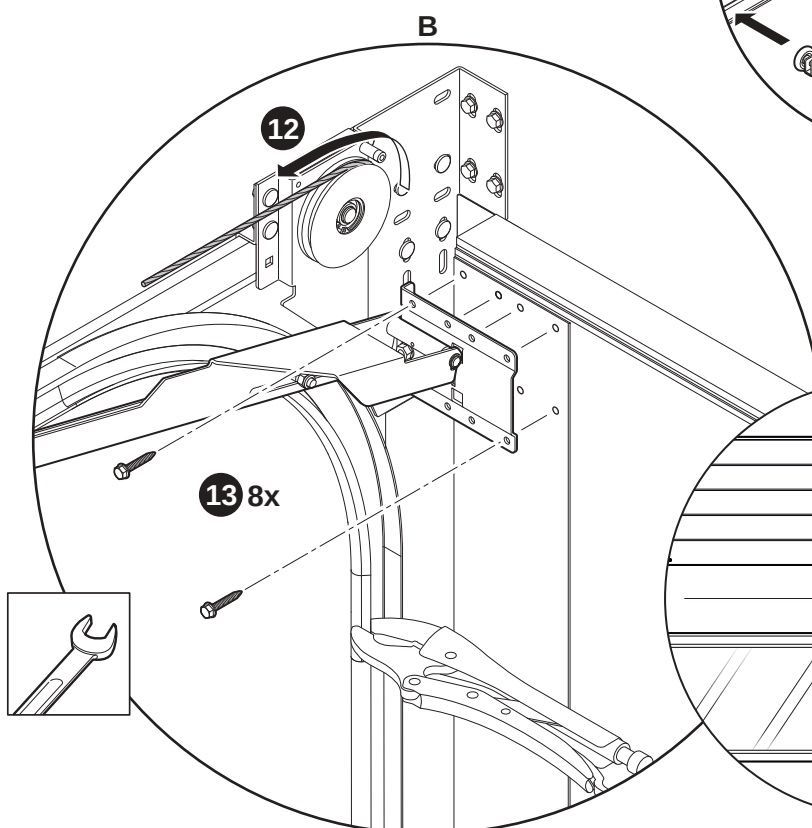
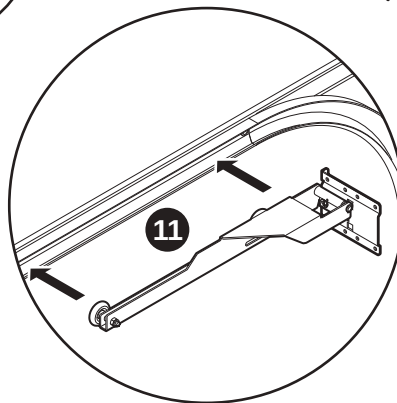
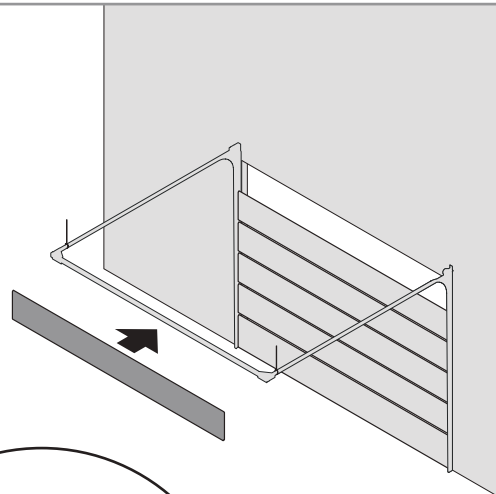
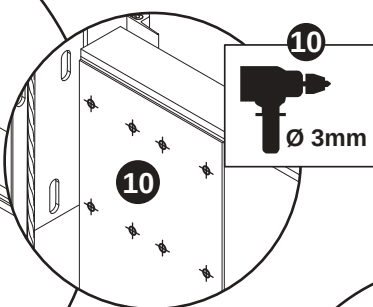
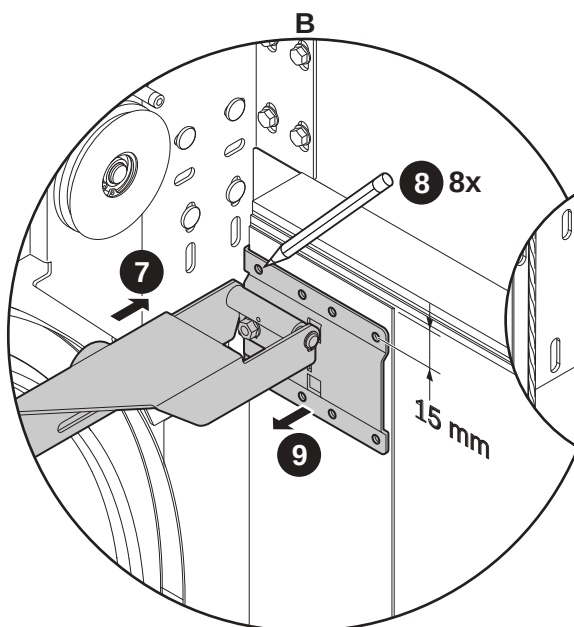


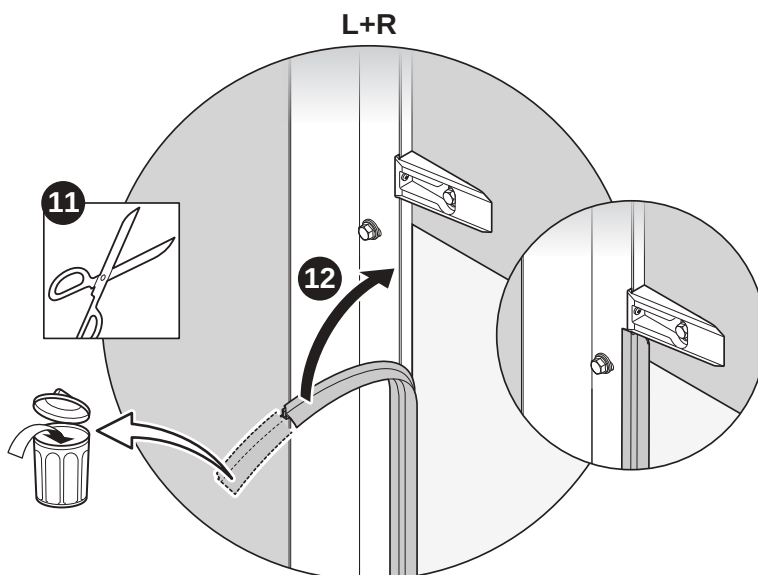
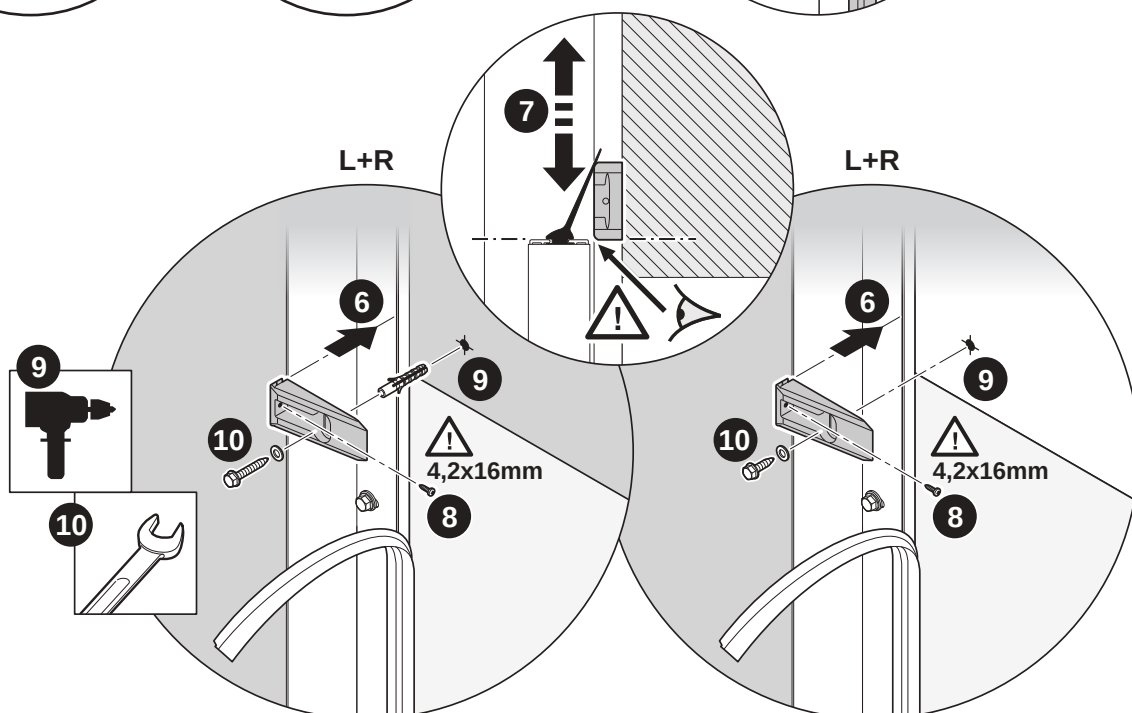
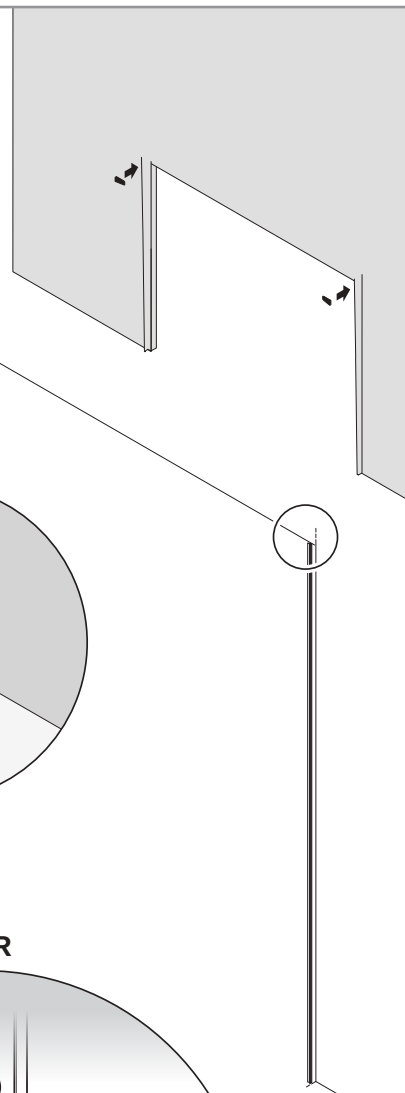


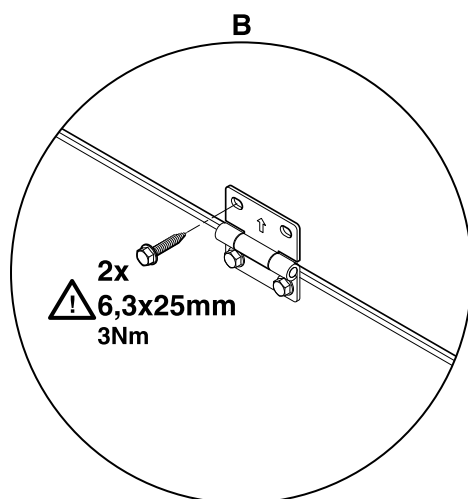
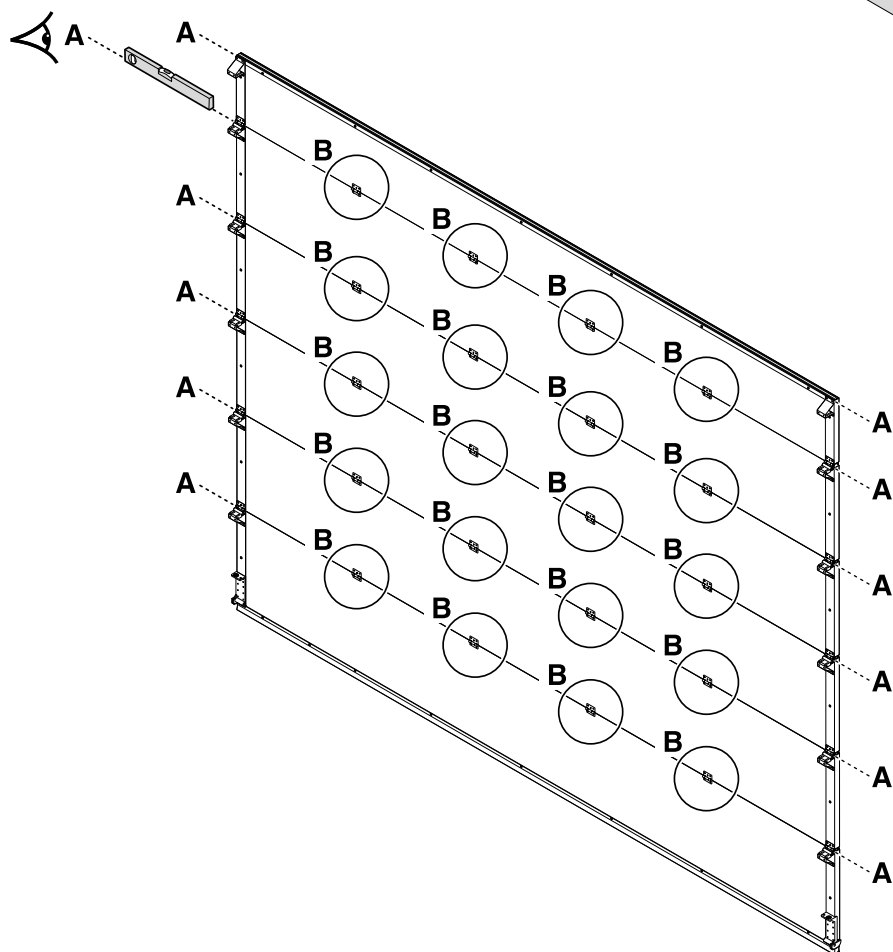


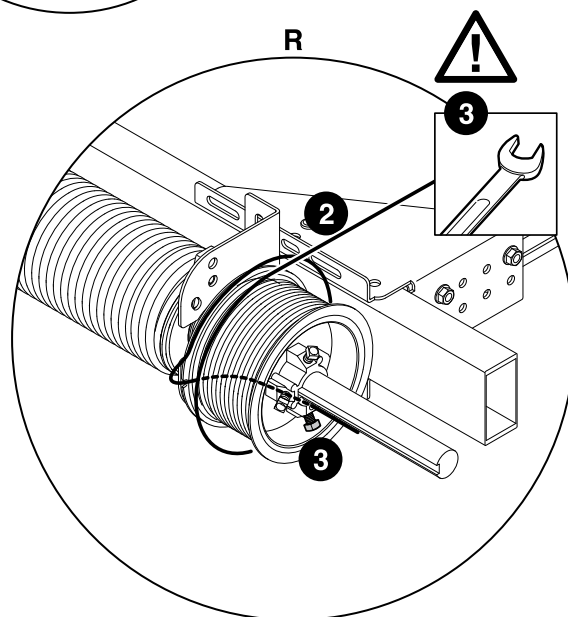
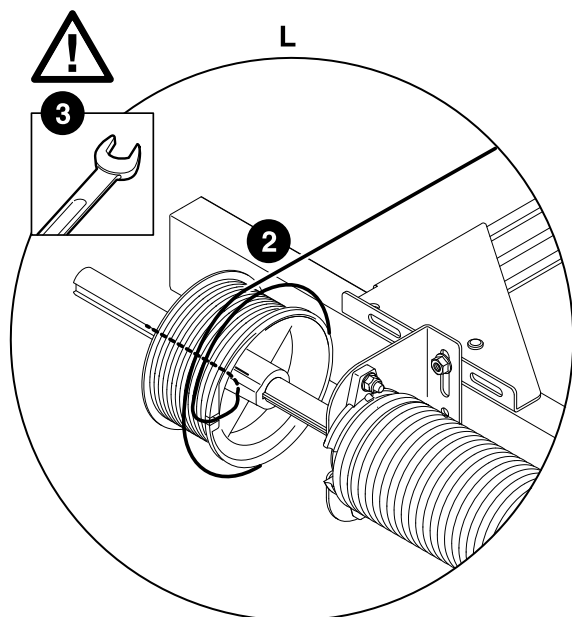
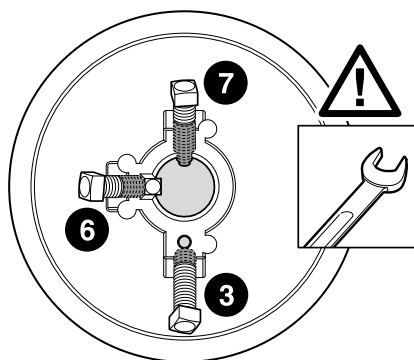
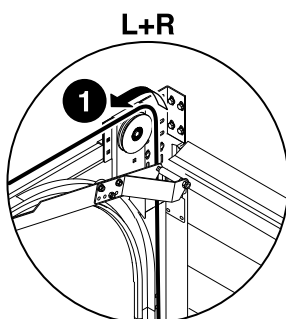
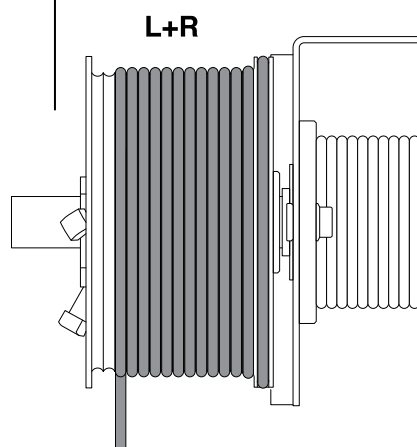
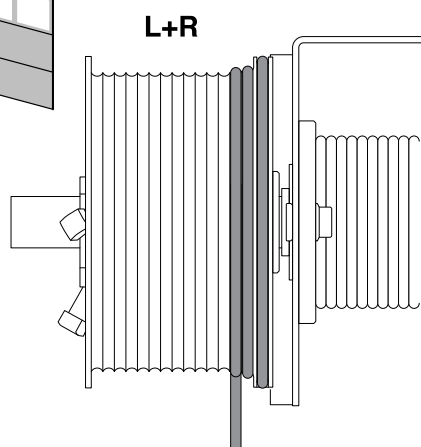
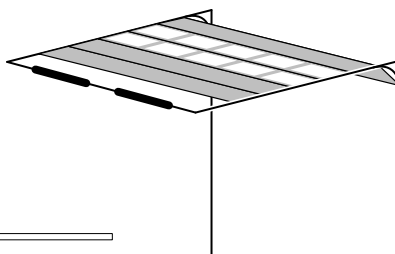
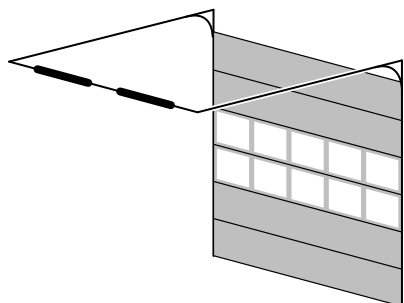
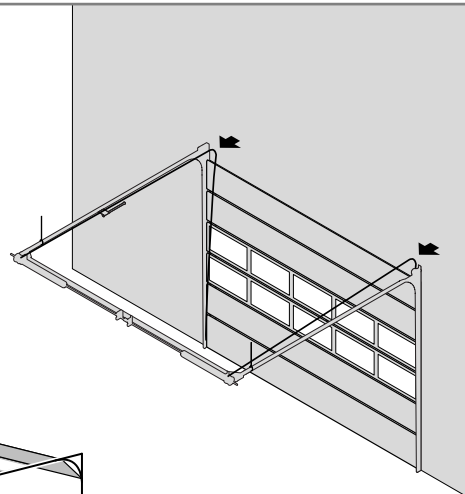
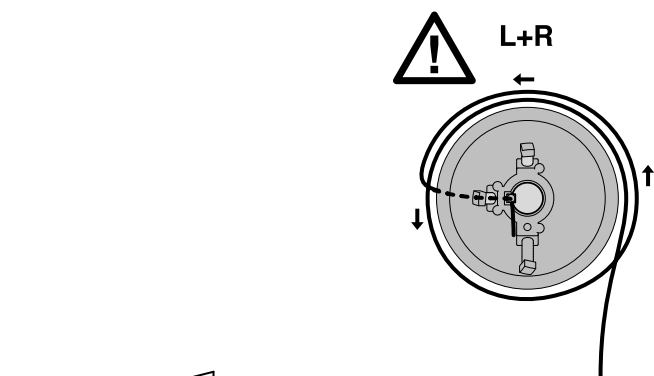


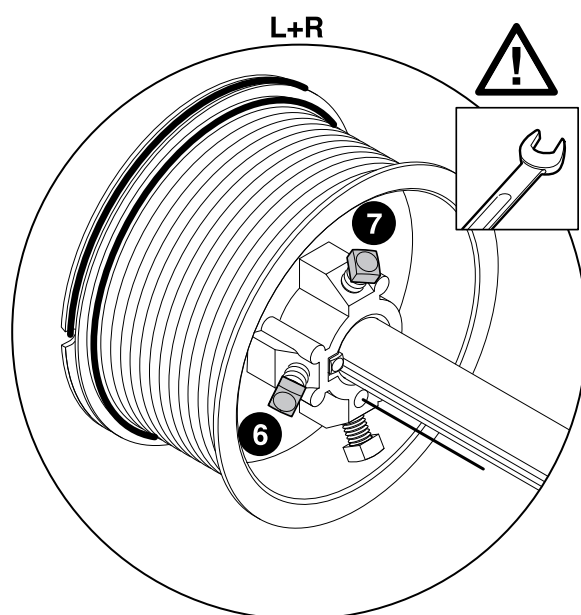
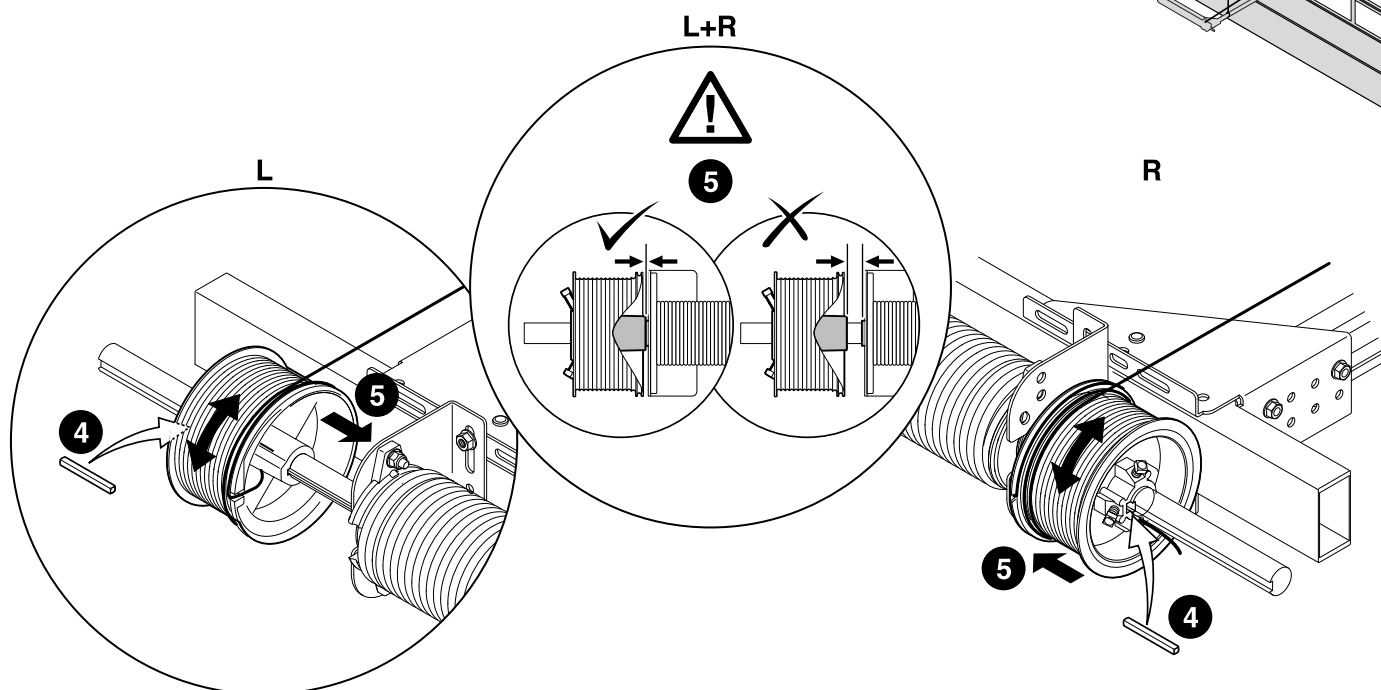
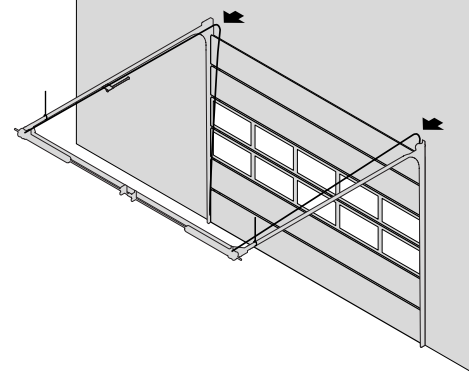


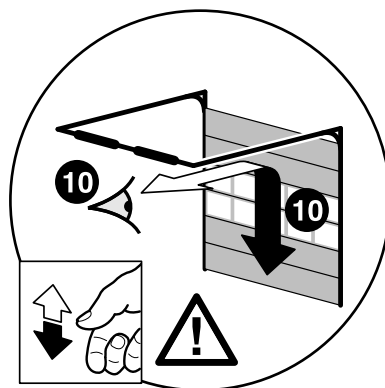
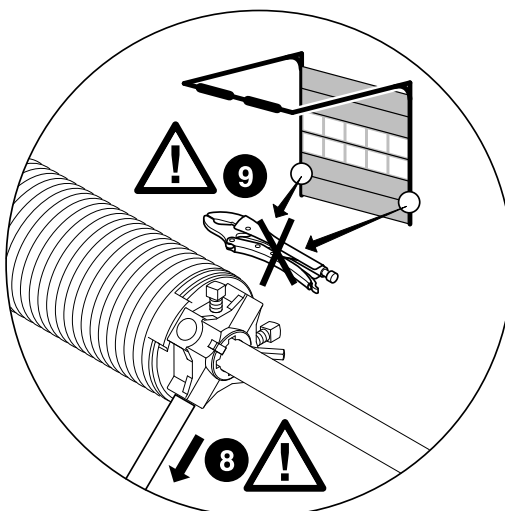
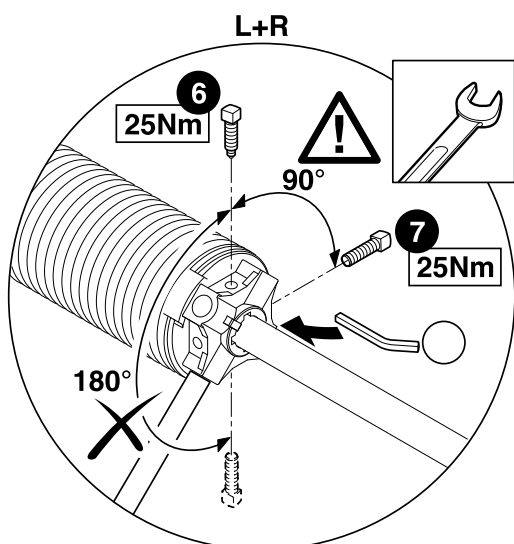
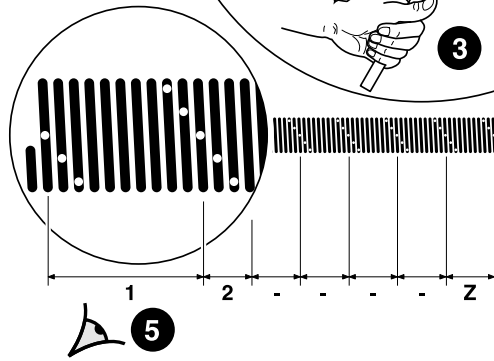
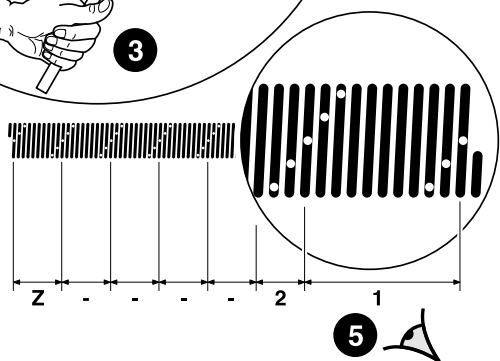
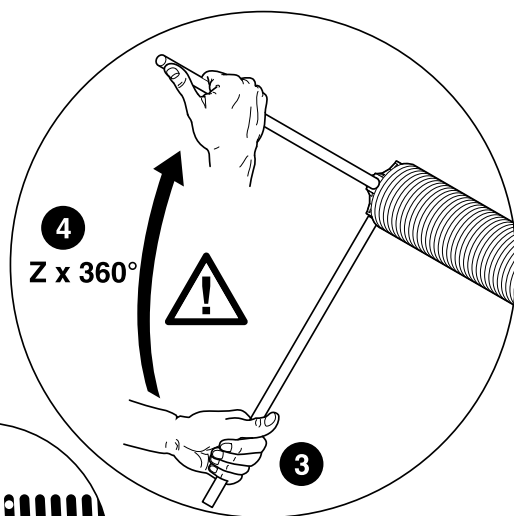
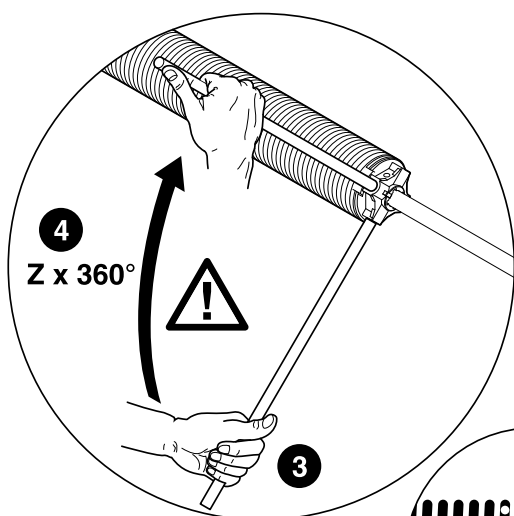
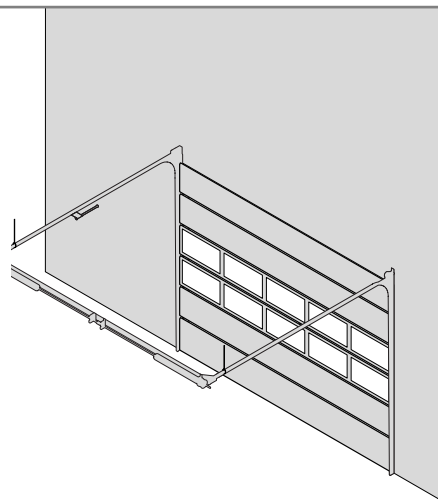
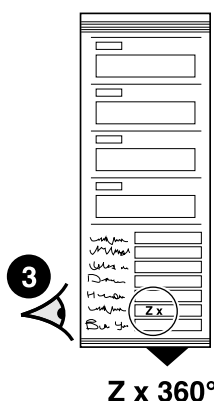
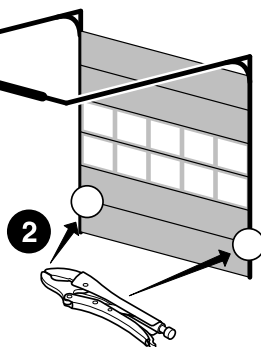
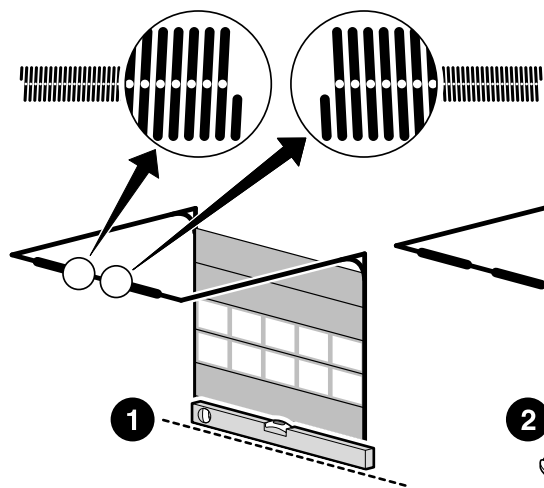


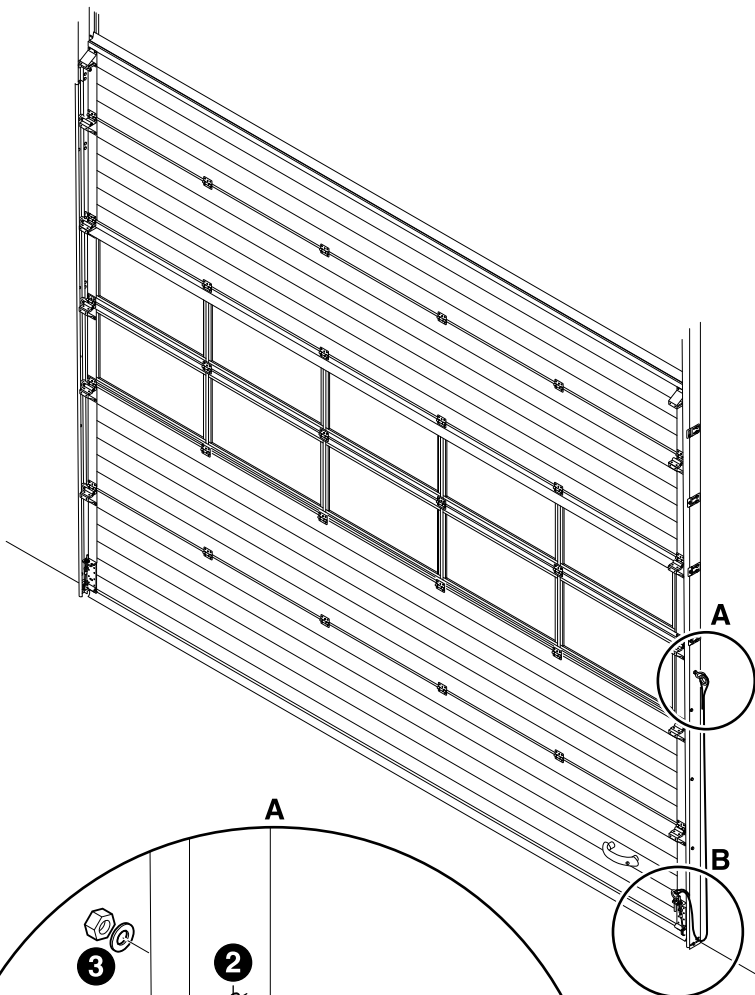
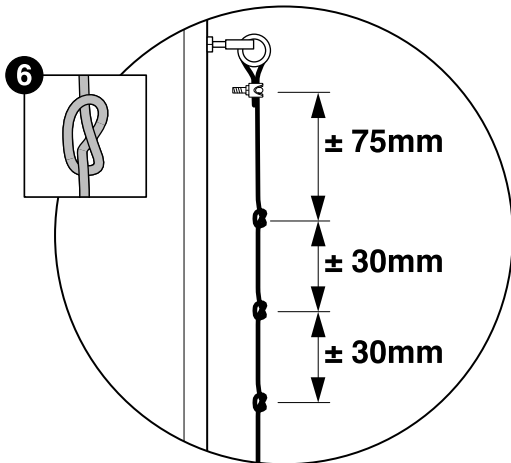
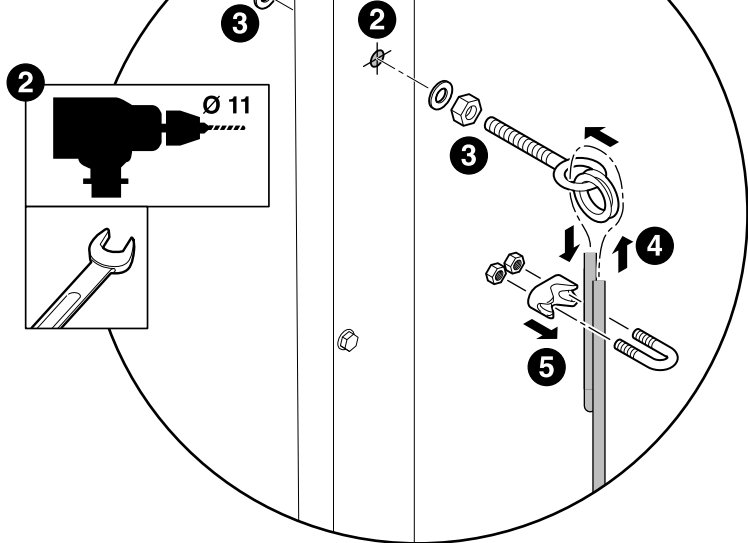
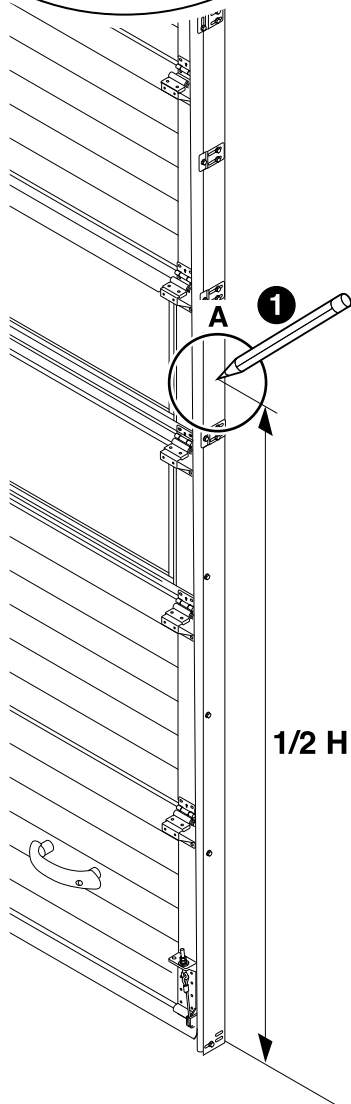
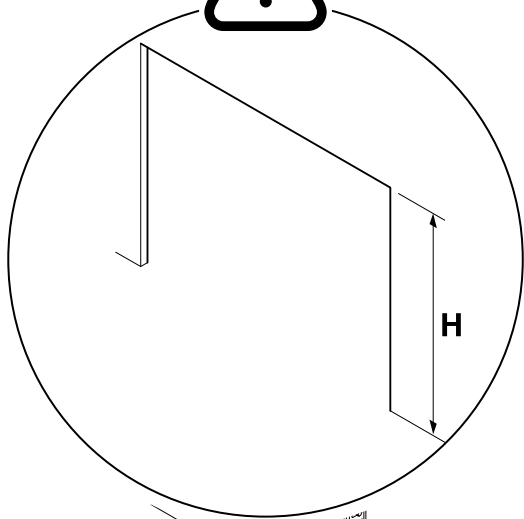
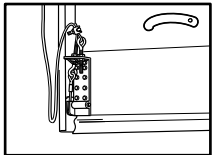


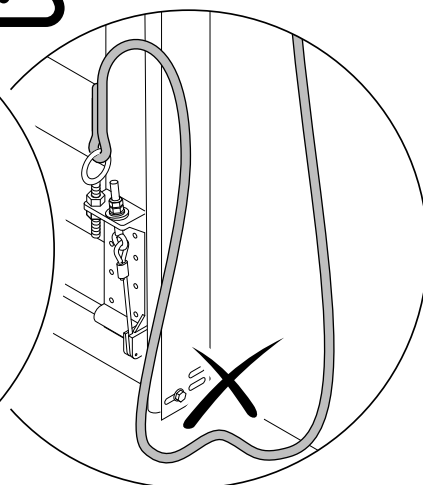
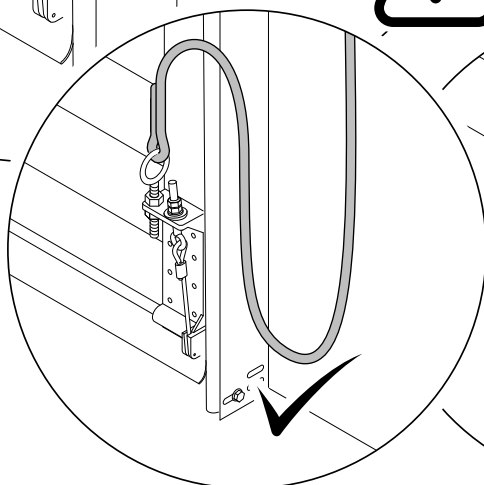
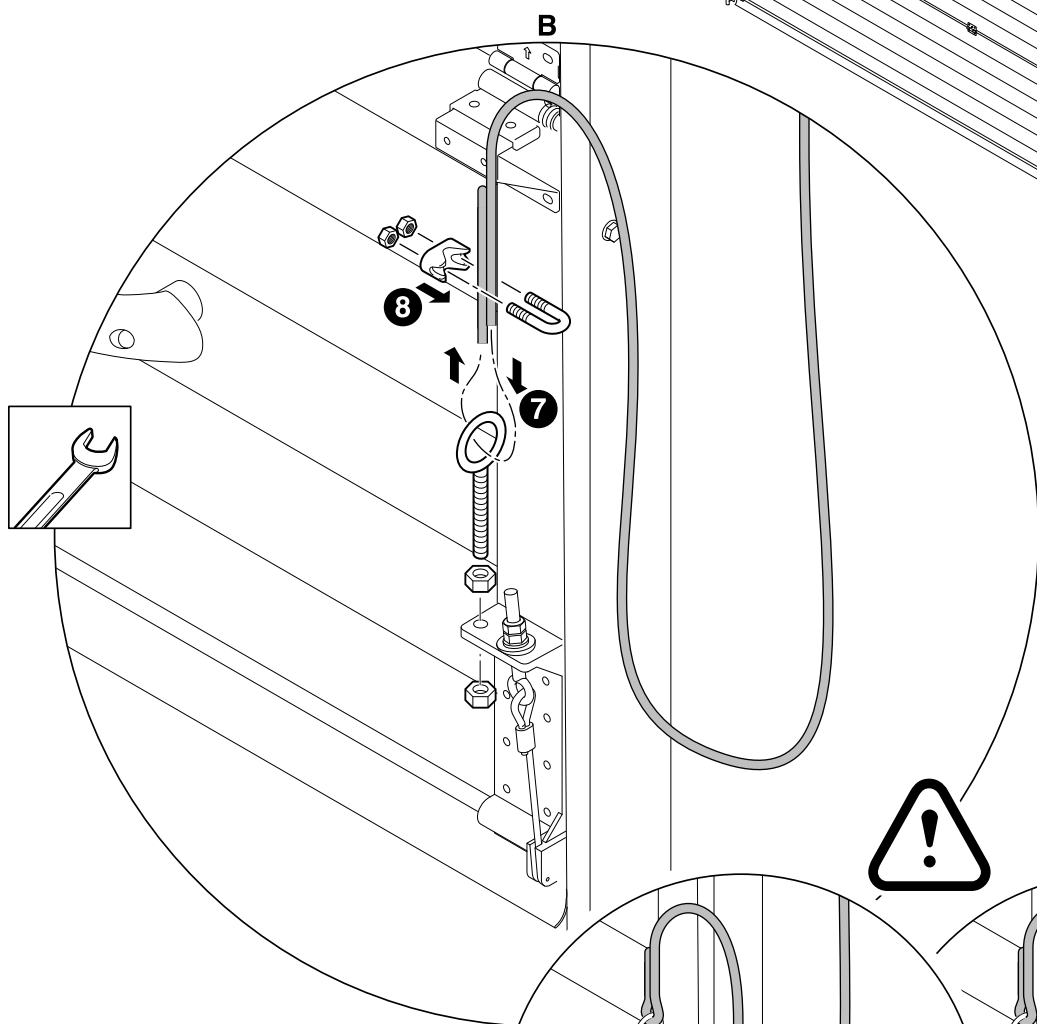
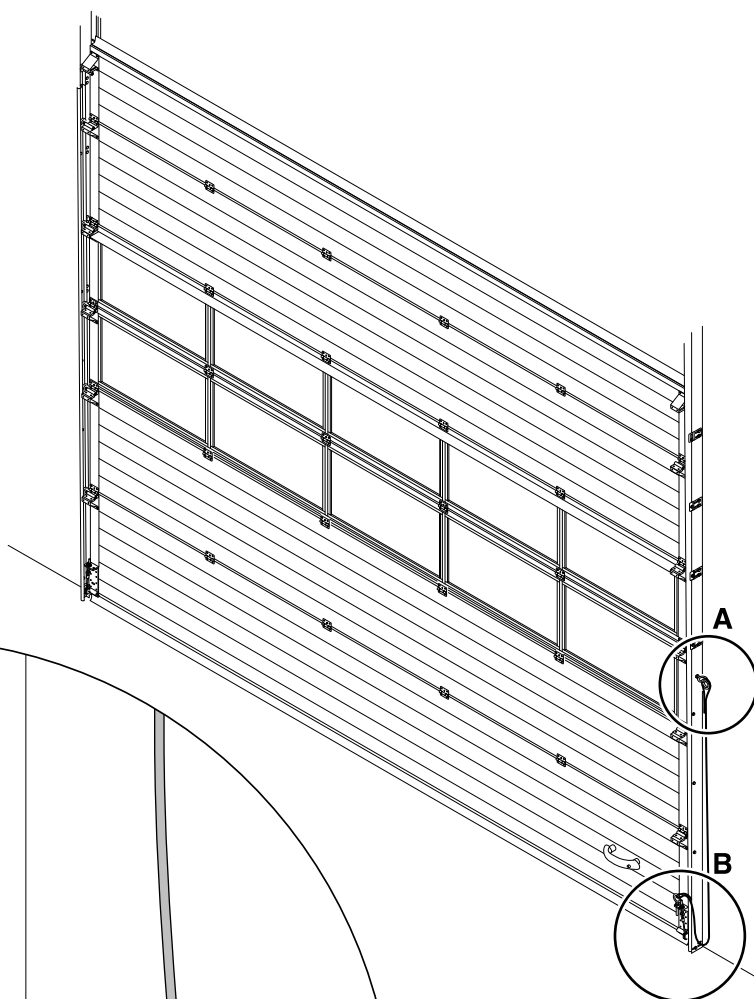
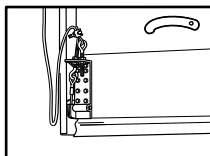


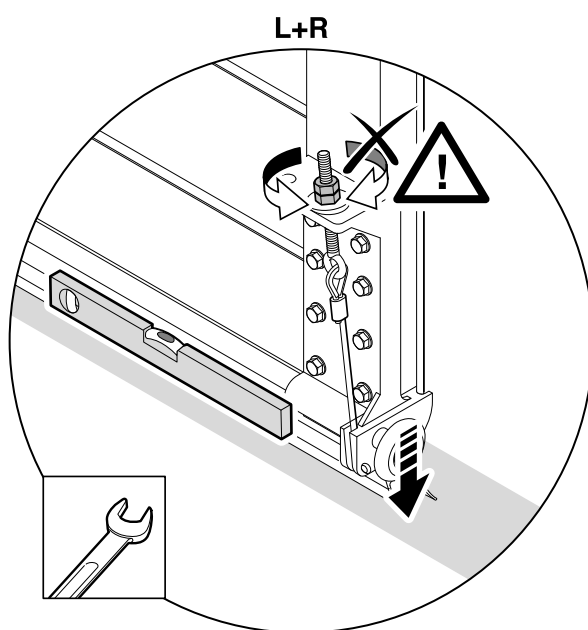
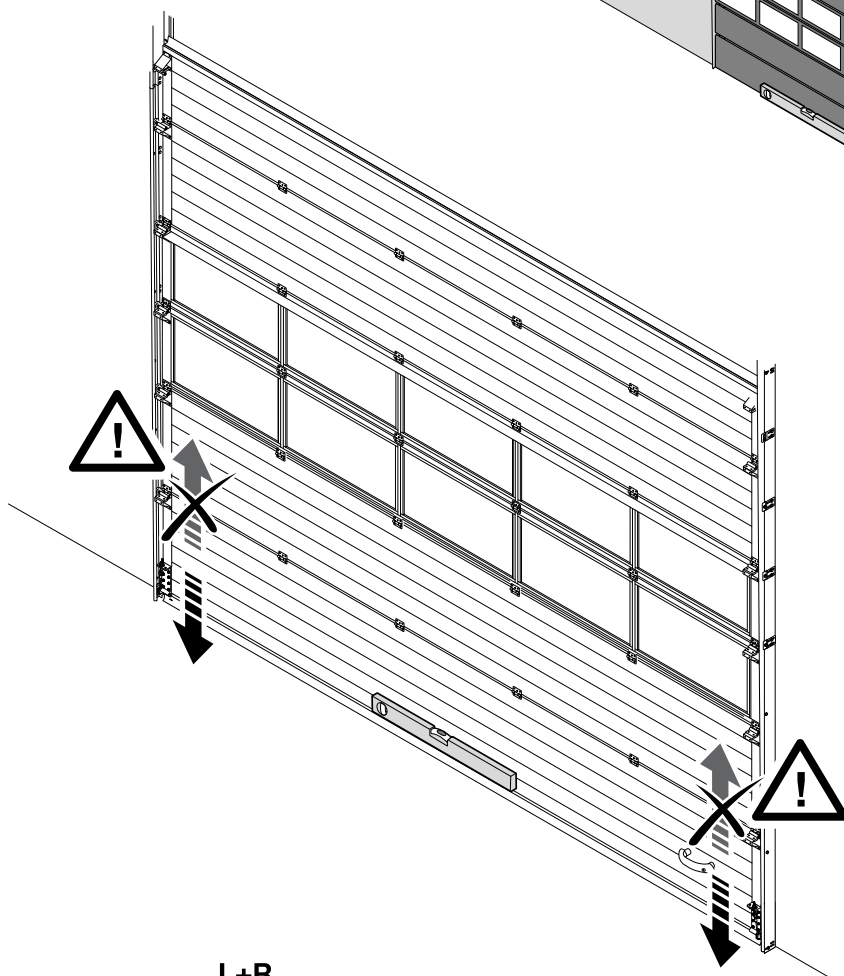
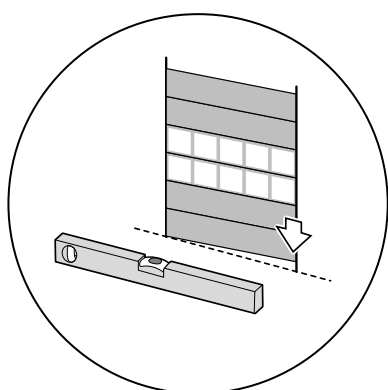
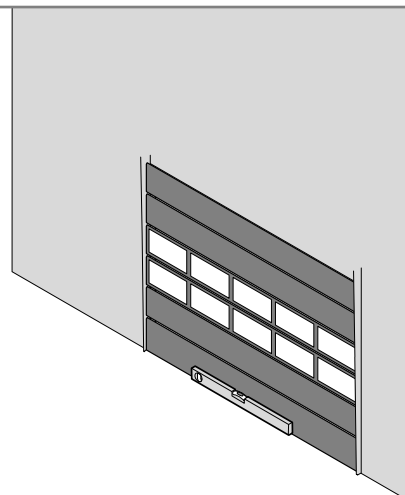
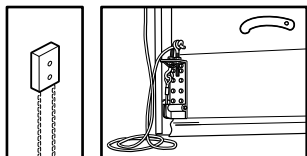


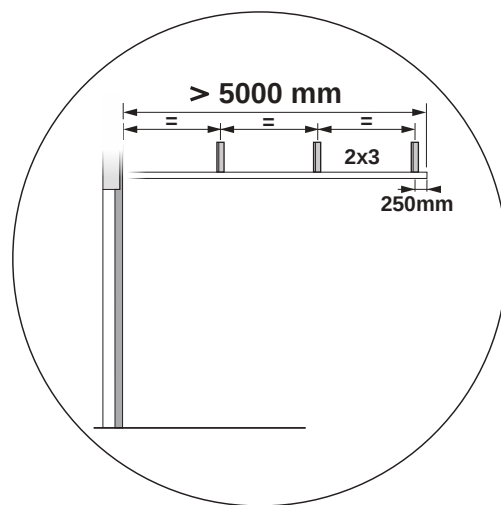
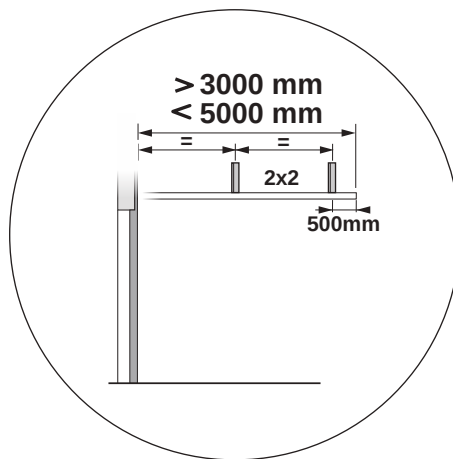
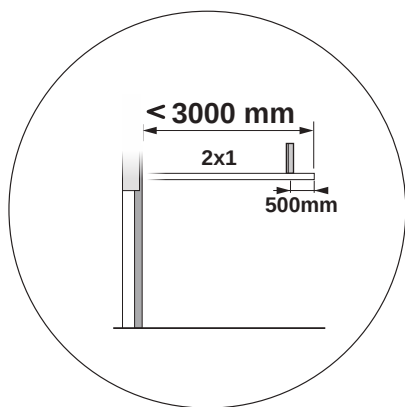
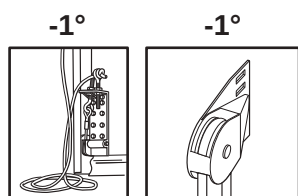
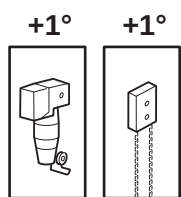
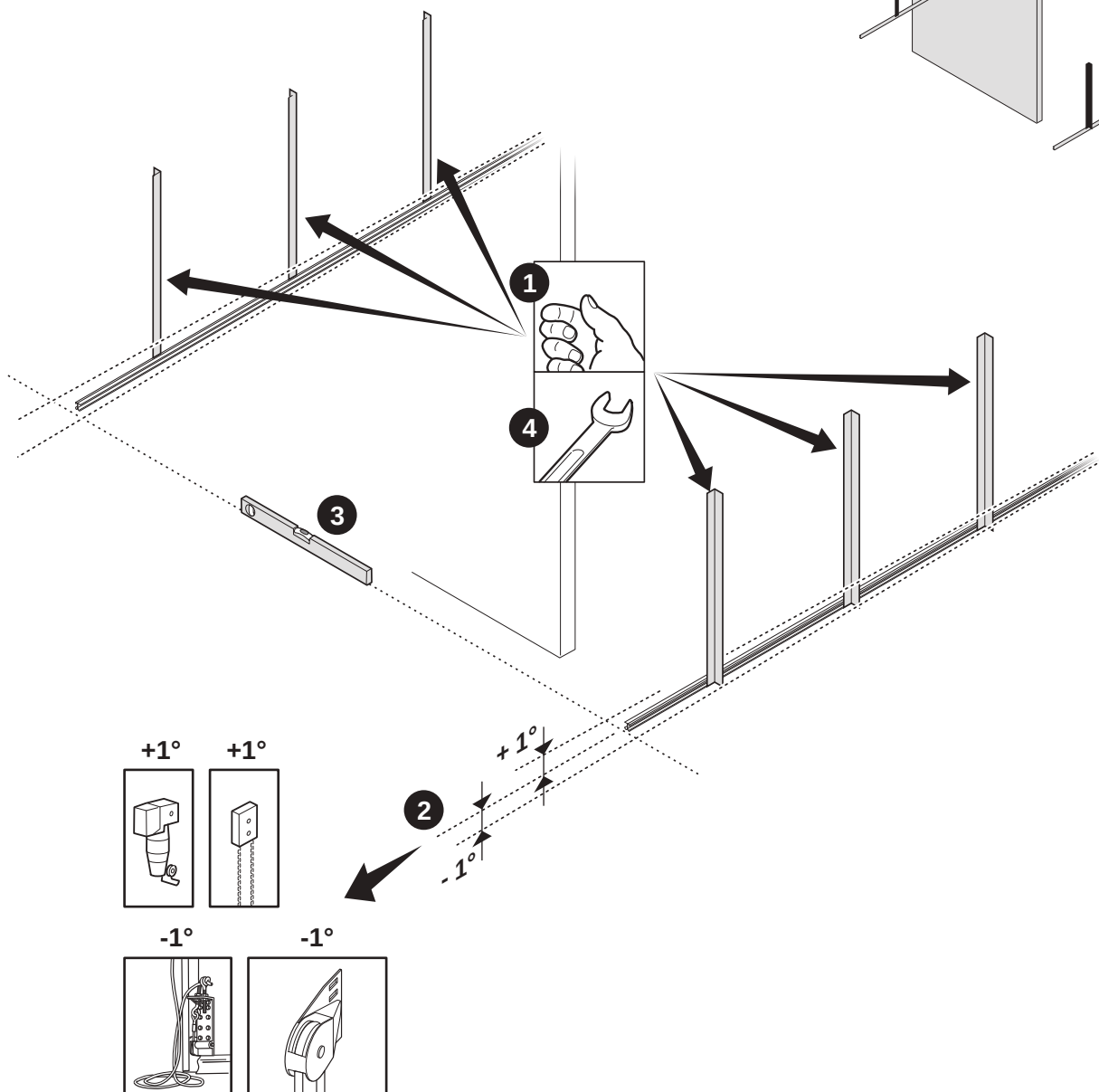
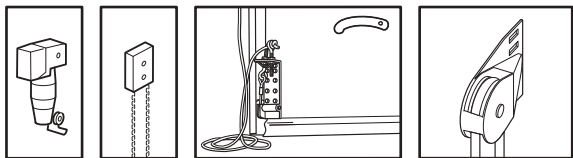


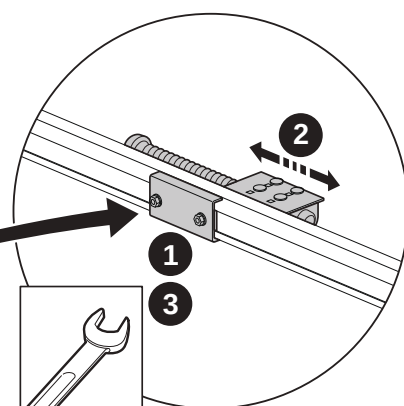
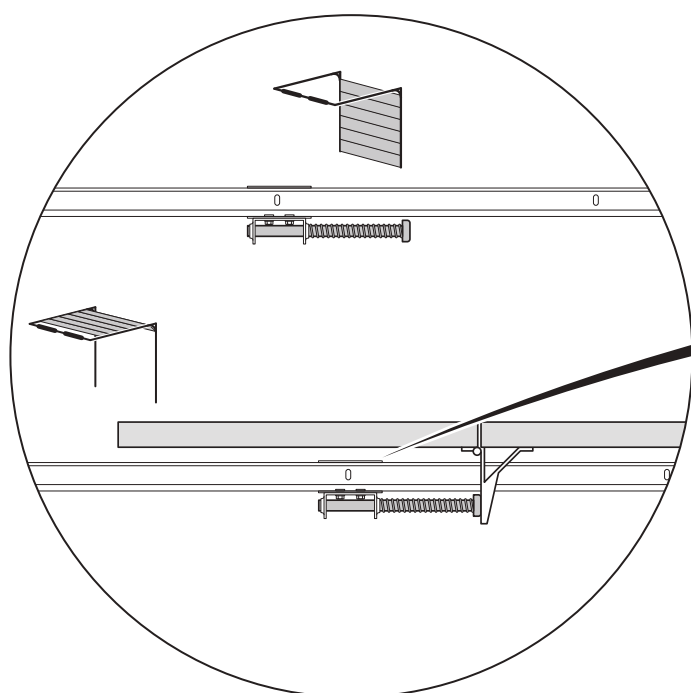
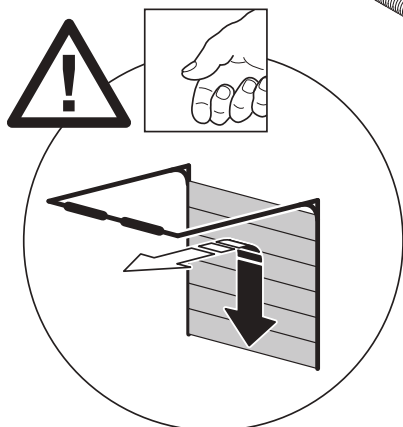
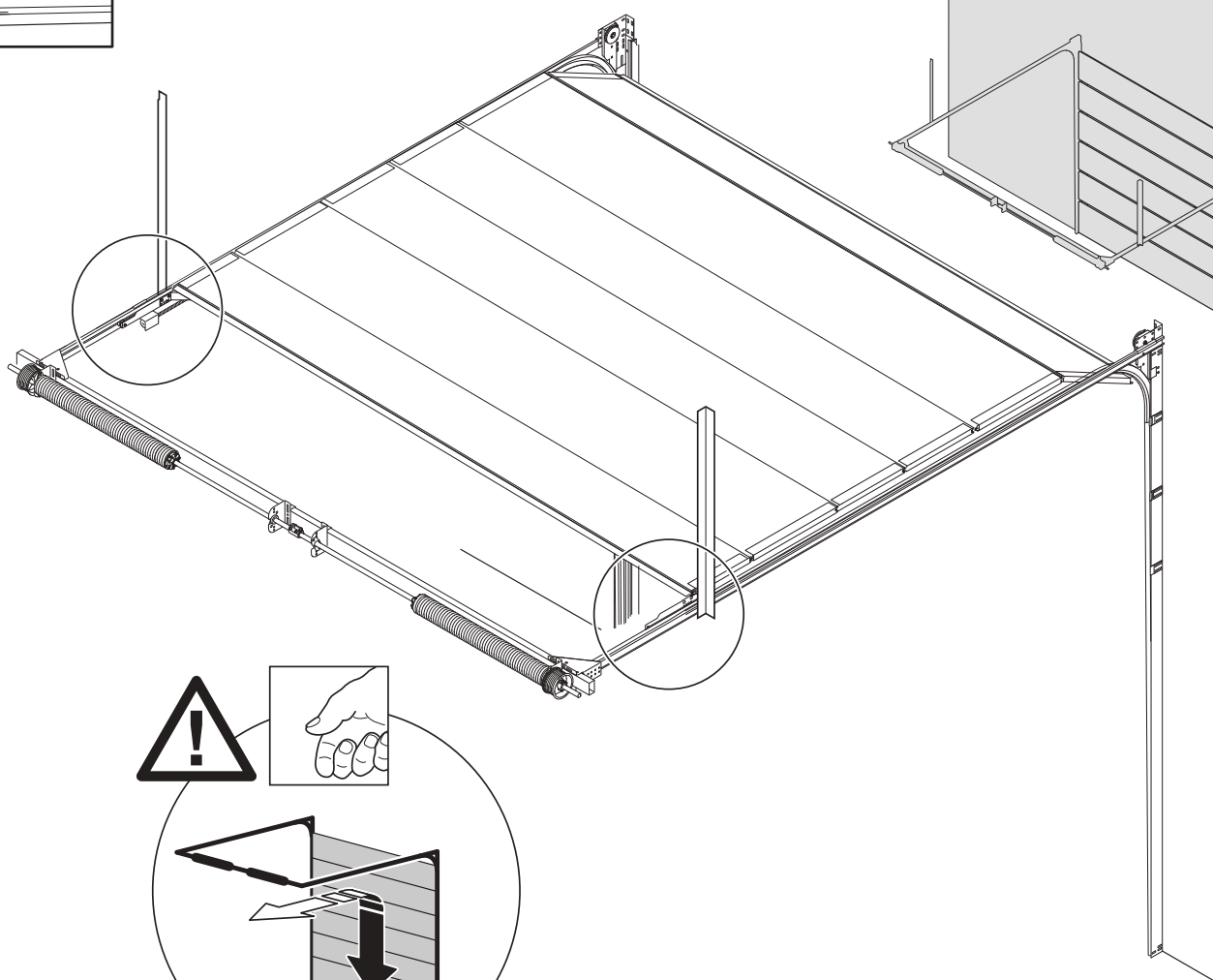
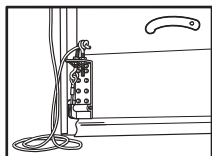


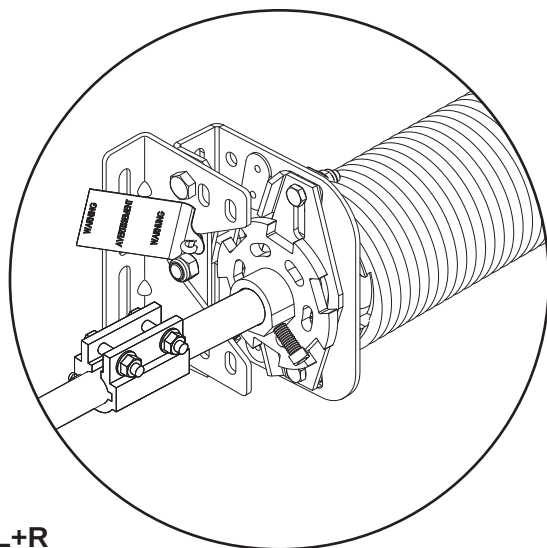
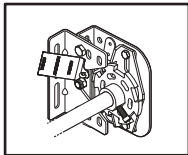




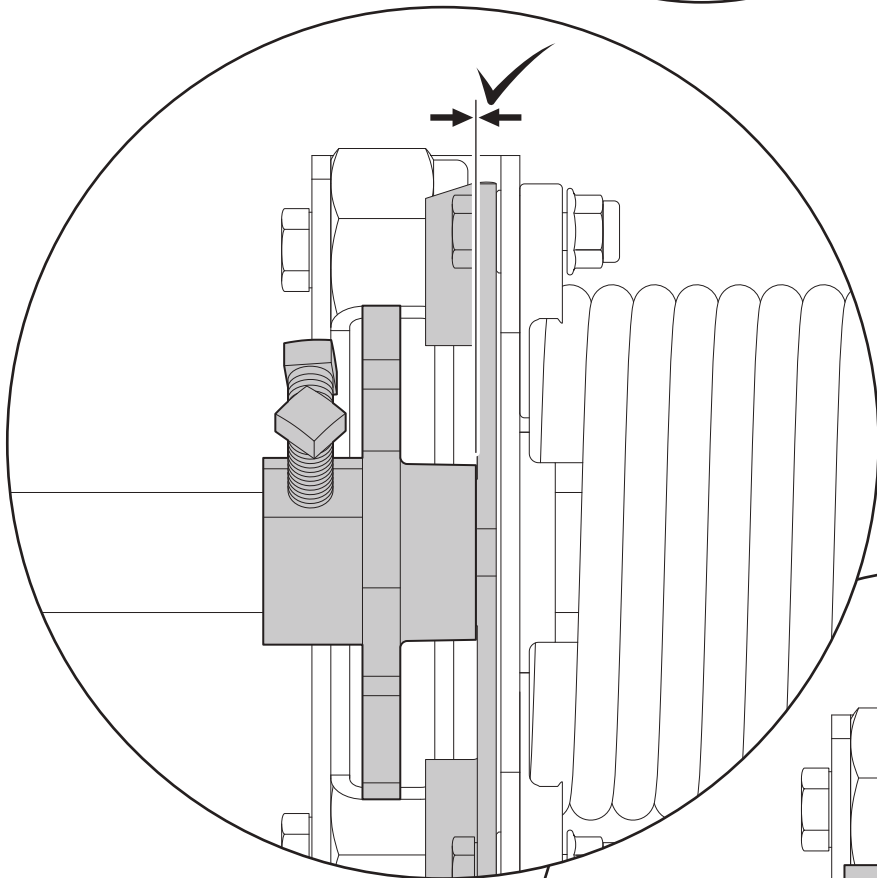




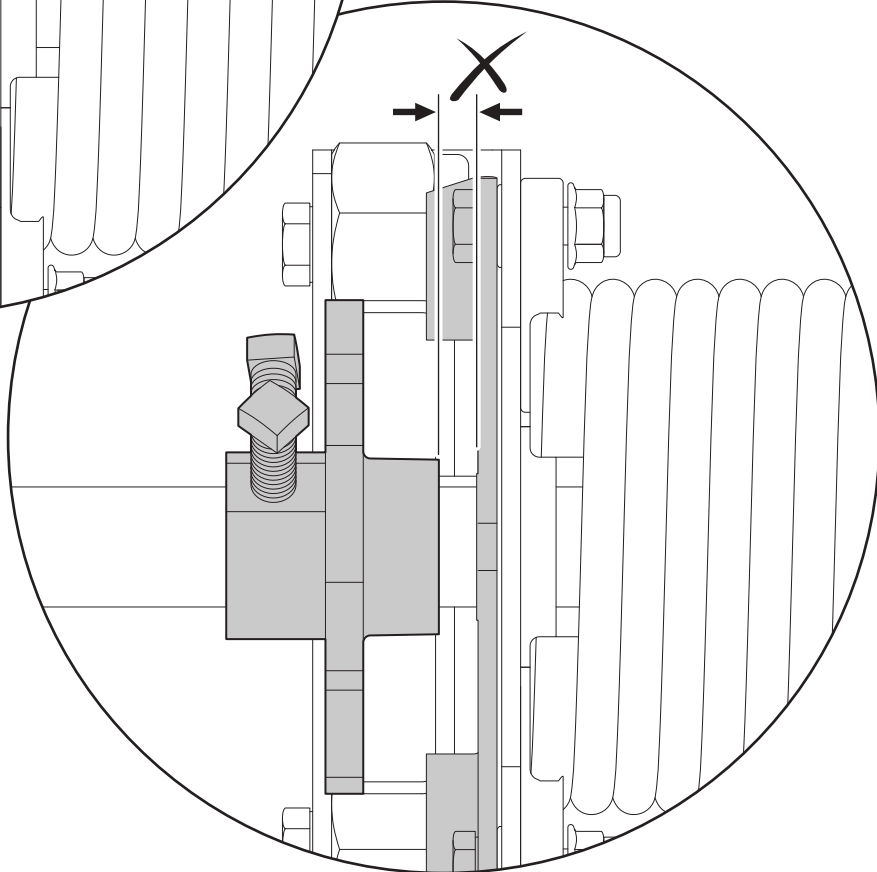


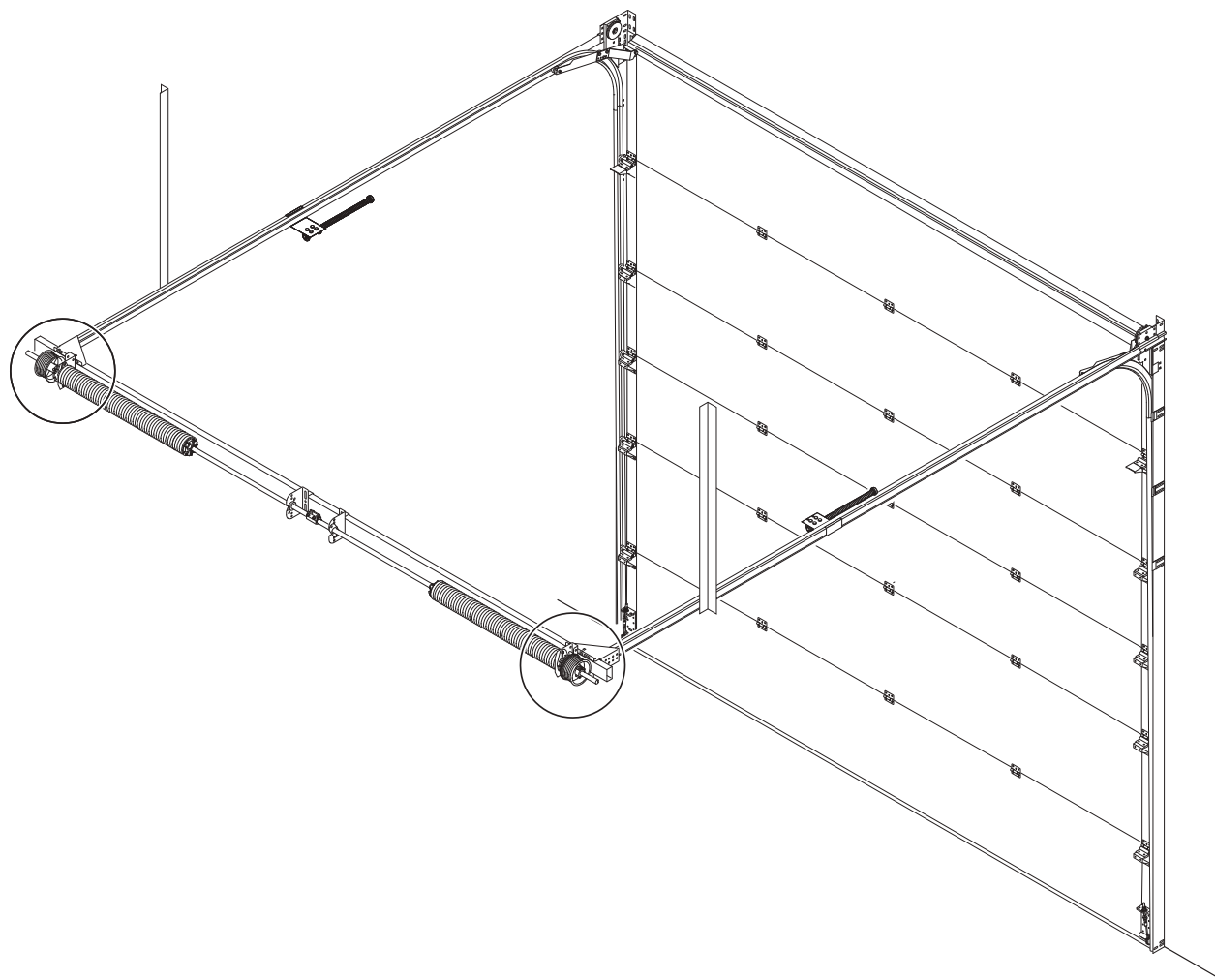
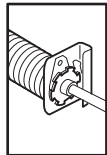


L+R



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