

# INSTALLATION INSTRUCTIONS

# PLUS

**VER.06-2016EN**



**In this handbook we are mentioning the instructions for the correct installation of our track system. This handbook is dedicated to be used by experienced and qualified technicians and it's not advisable for handymen or for using by unschooled personnel.**

**The standard track system set consists of by following parts:**

- \* Set of rails (vertical and horizontal)
- \* Necessary standard parts/ basic material for mounting
- \* Fittings (hinges, wheels, etc.) from selected material
- \* Set of steel cable
- \* Extension springs.

*Notice: Parts (bolts, etc.) required for mounting the tracks to the wall or for its hanging to the side wall or ceiling are not included.*

**Optional equipment**

- \* connecting/hanging profiles for horizontal rail set.
- \* upper sealing for mounting on the lintel.

We are sure that you will successfully install the track system. When you will have some questions or you will need to clear up any problem please don't hesitate to contact Kružík Ltd.

**ATTENTION!!**

- ! This handbook describes just the installation of the track system parts and it's necessary to complete it with instructions for the montage of any optional parts.
- ! Carefully read this handbook before beginning the installation.
- ! Some of the parts might be sharp or might have burrs. We recommend using protective gloves.
- ! All supplied parts are engineered for using with up-and-over doors.
- ! Through the tension of the springs heavy forces can impact. Work carefully. Use proper equipment. Ensure to stand in a stable position.
- ! Ensure enough lighting during the installation. Remove obstructions and dirt. Ensure that there is no one to assist except the mounters on the installation place. Other persons (children) can restrain the installation and they could threaten themselves.

**Equipment necessary for correct and fast installation**

**Electric tools**

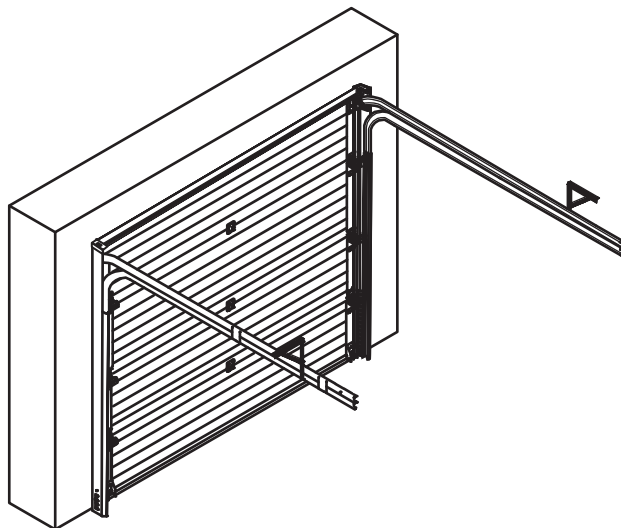
Drilling machine  
Impact drilling machine  
Cordless drill  
angle grinder

**Tools**

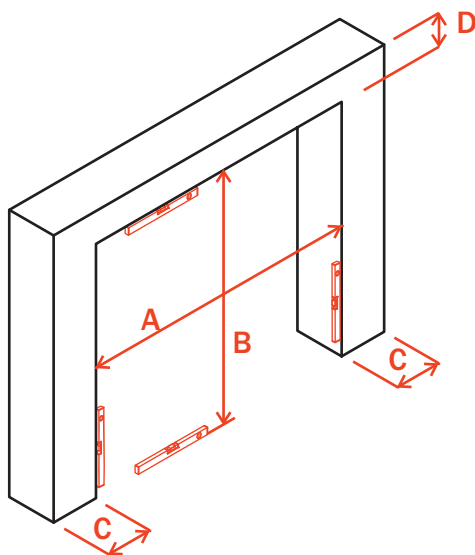
spanner 10, 13  
combination wrench 10, 13, 17  
set of allen keys  
nut 10, 13mm + prolonged bits adapter  
combination pliers, waterpump pliers  
hammer  
air level  
yardstick  
pencil  
rope  
2 blocks, appr.20 and 40mm high  
clamps

**The construction conditions on the site are for sectional private and industrial doors installation and their further flawless operation essential!**

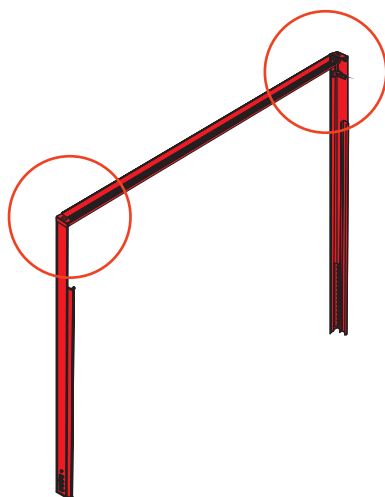
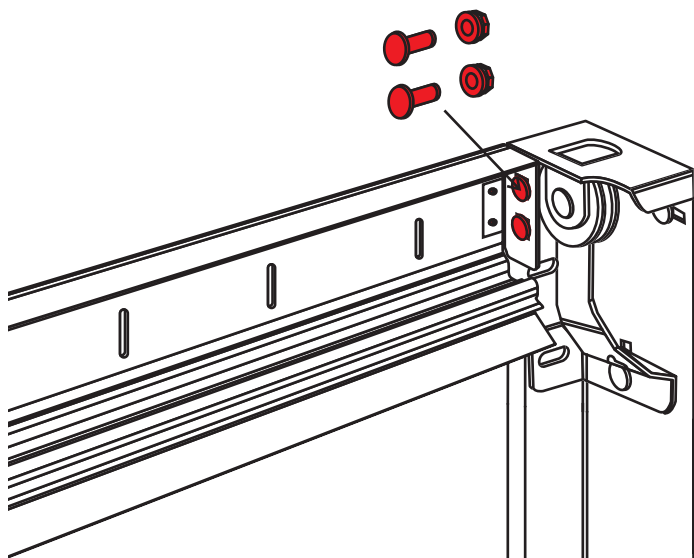
- surface flatness
- for the sectional door installation the surface has to be even (side room, headroom, floor). Side walls and lintel have to run in one line. Maximal allowed flatness variations for walls are  $\pm 1$  mm, for floor  $\pm 3$  mm (else the bottom sealing will not be tight).
- masonry base for installation has to be solid and dry. In the mounting area is no electric wiring within the walls allowed.
- each larger unevenness of the mounting base, can have a negative influence on the proper door operation. Use wall plugs with 12mm diameter to fix the sectional doors to the masonry wall.



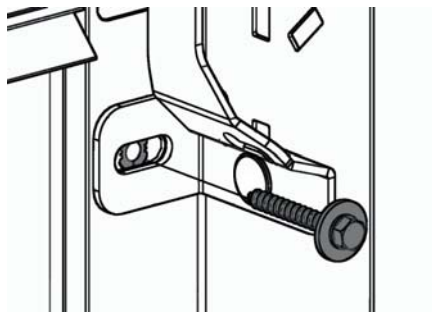
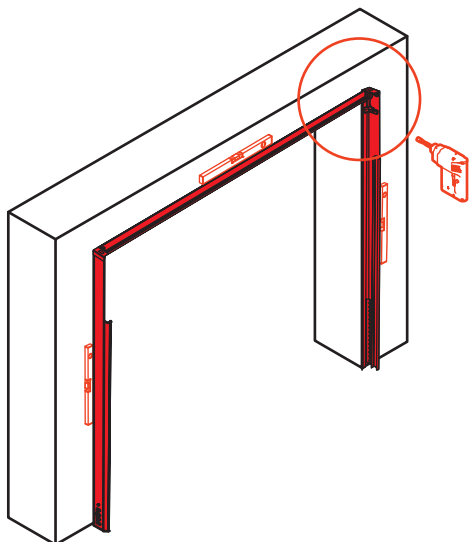
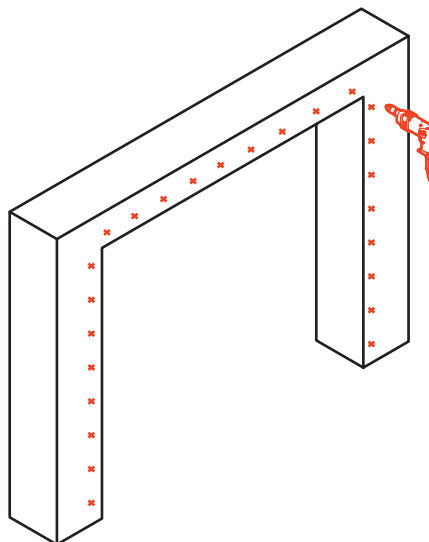
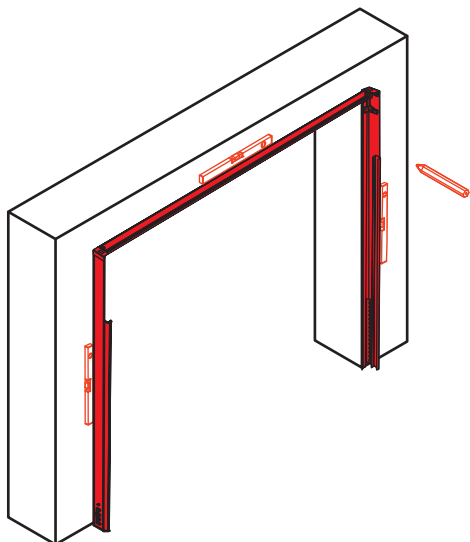
Before mounting check the door opening.



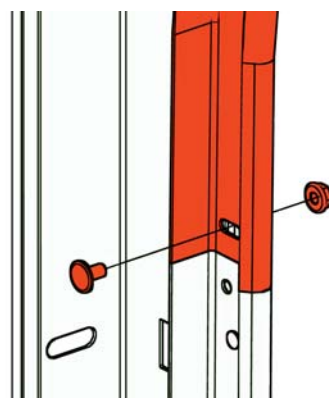
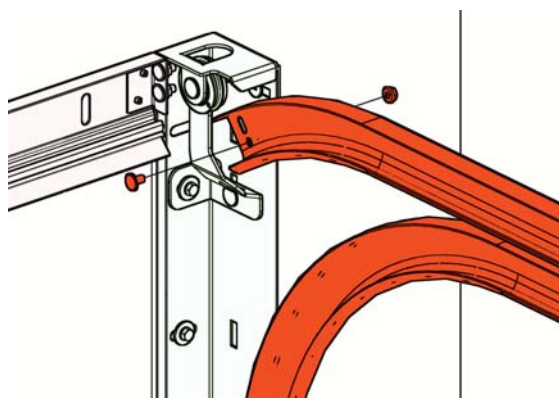
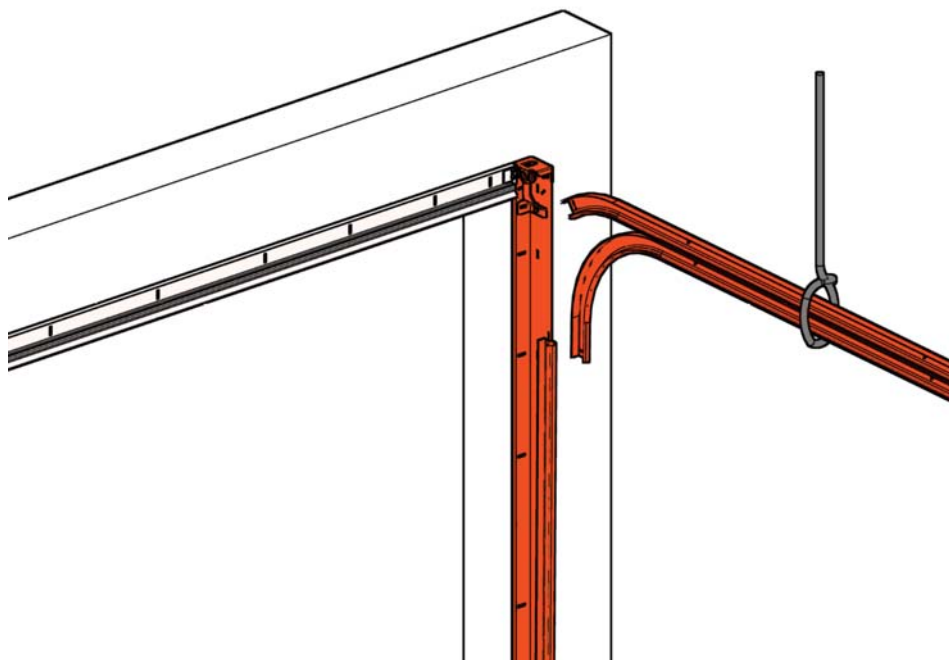
Screw the vertical rails on the upper profile with the sealing.



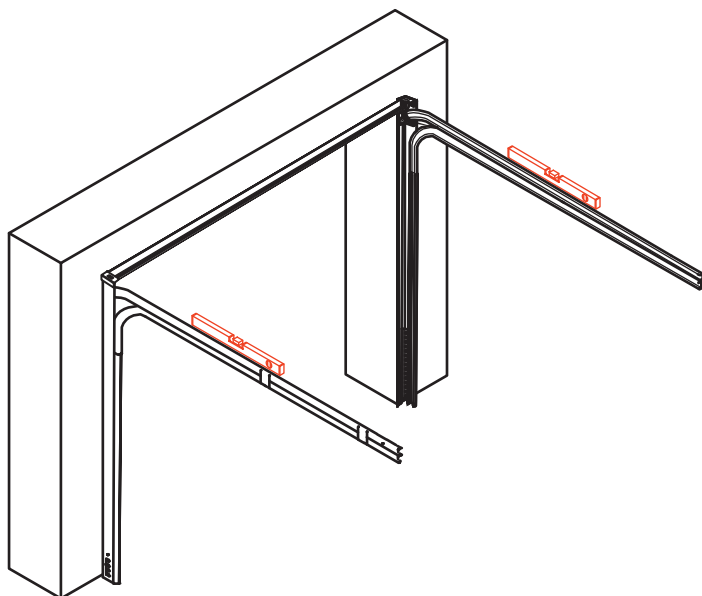
Put the door frame behind the opening, check again the alignment with spirit-level, mark and drill holes and screw it on the wall.



Insert the horizontal track into the vertical one and screw it together with M6 flathead bolts.

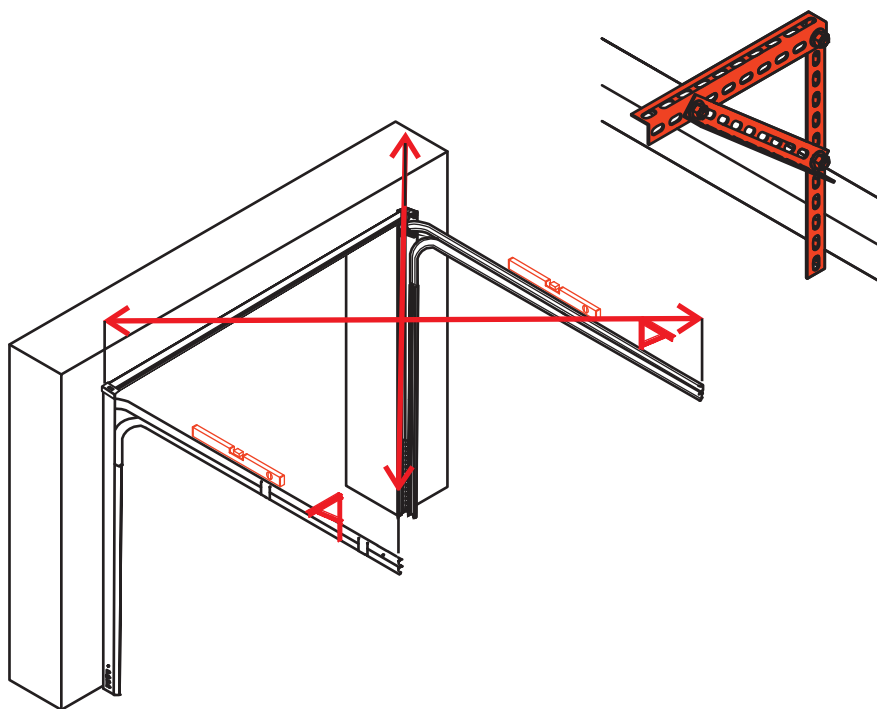


The horizontal rails are to be balanced by an air level.

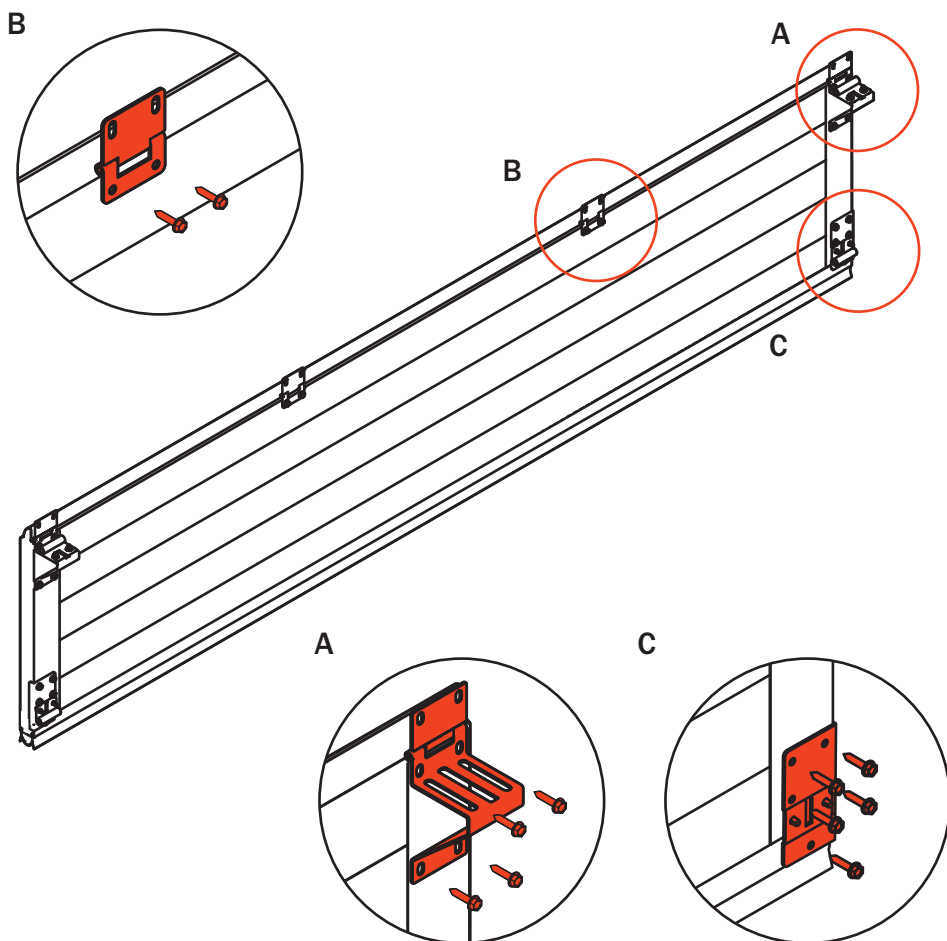




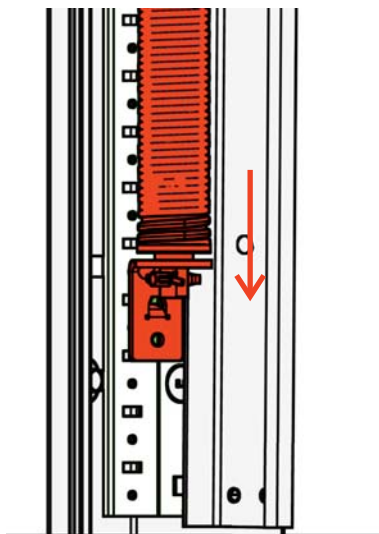
Fix the horizontal tracks to the ceiling with a perforated angle, check the diagonals, if needed adjust the horizontal tracks in order to have identical diagonals.



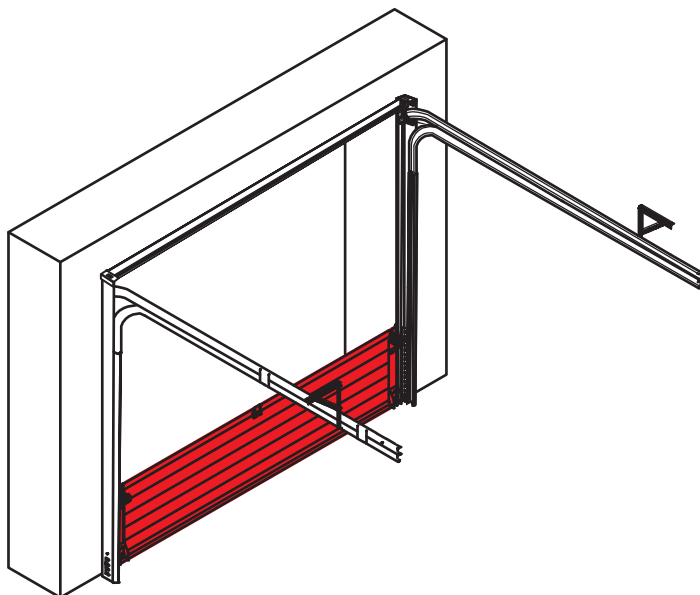
Mounting of the side (A), center (B) hinges and bottom corner brackets (C). Bolt on the hinges into the pre-drilled holes.



Unhook the tension springs from the bottom bracket.



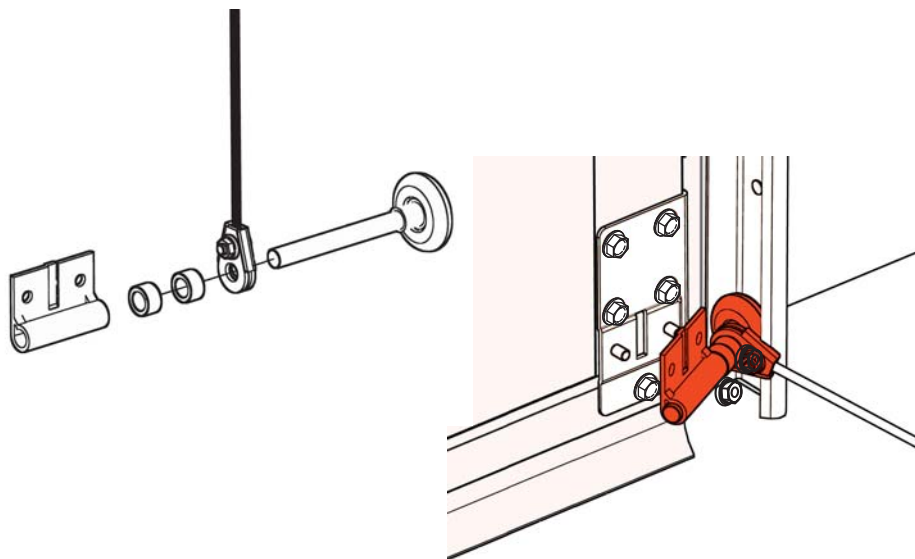
Insert the bottom section between the vertical rails.



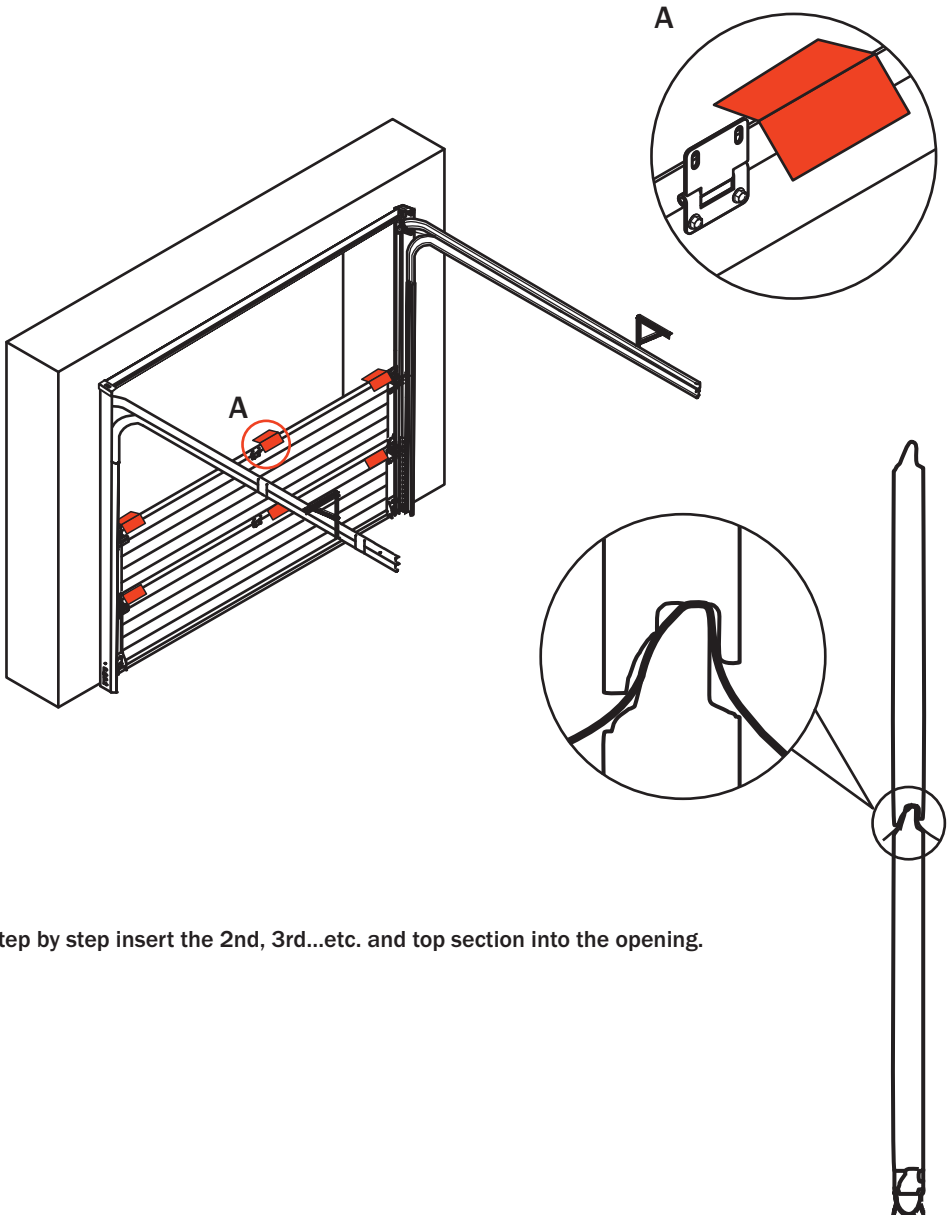
Insert a roller into the side hinge.



Insert a roller with 20mm spacer ring and a steel rope into the bottom corner brackets.

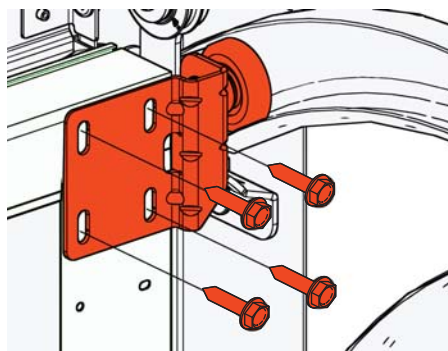
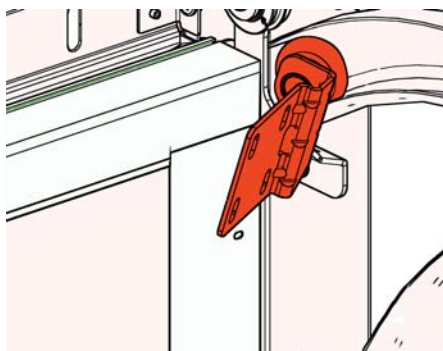
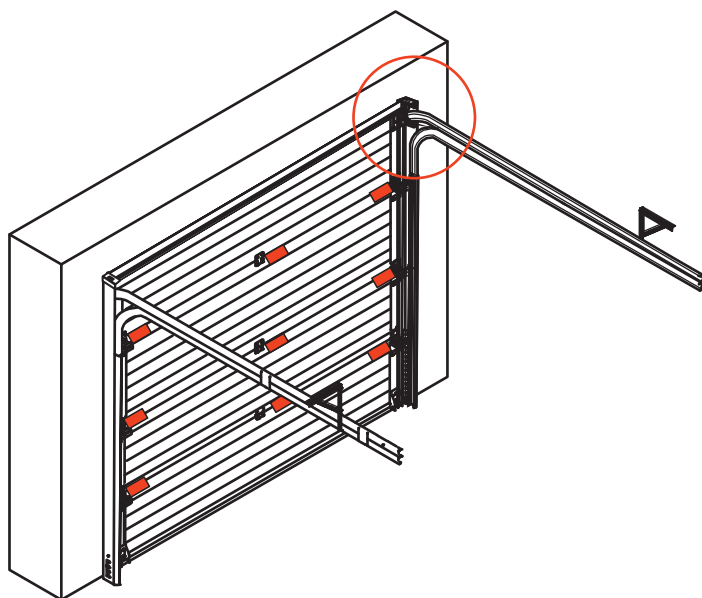


Insert spacer pads between the sections on the spots with side and center hinges (if they are included in the package – only for particular panel types). Continue in the same way for the rest of the sections. After lifting of the door the pads will be removed.

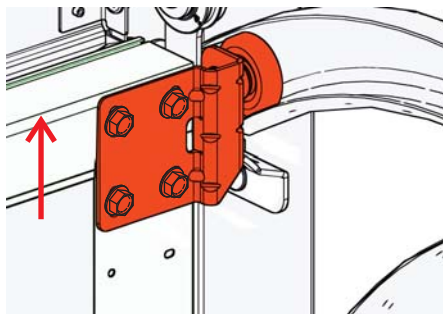
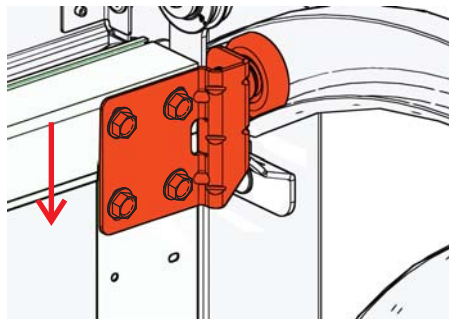


Step by step insert the 2nd, 3rd...etc. and top section into the opening.

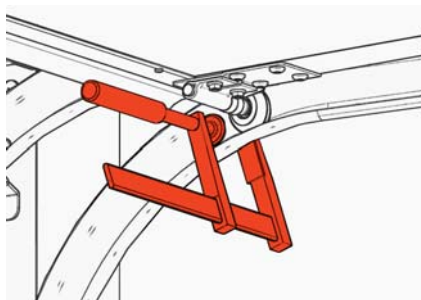
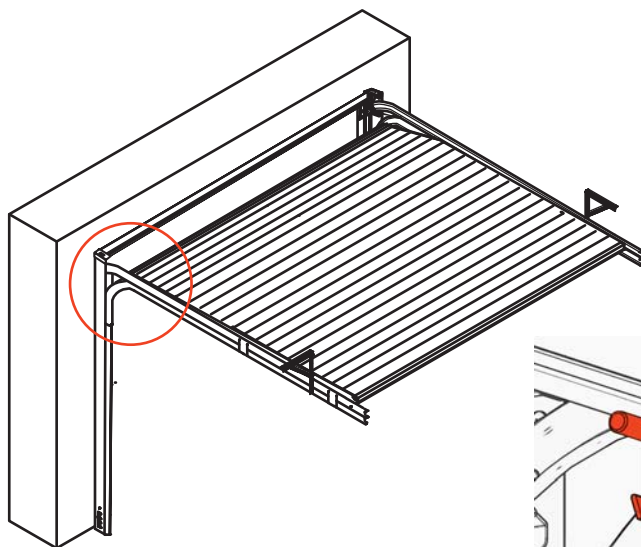
Bolt on the top hinge to the top section.



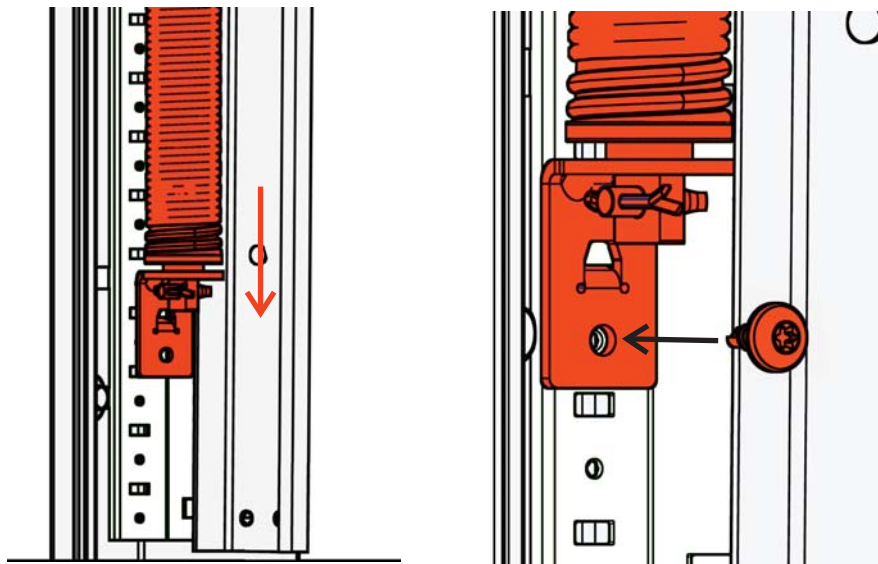
Adjustment of the top hinge: A – door with electric operator, B – manually operated door.

**A****B**

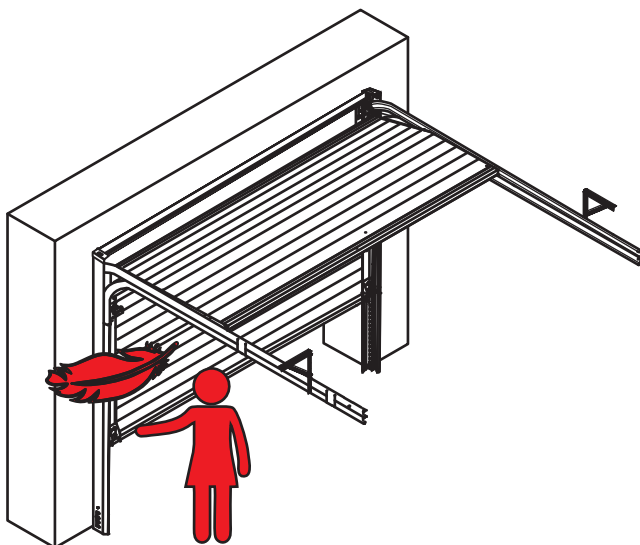
Lift up the door leaf to the upper position, fix it against falling down.



Stretch the tension springs, attach the bottom spring fixture to the bracket. Unfix the door leaf and close the door slowly. Adjust the position of the bottom spring fixture if needed to achieve a smooth door movement. Finally fix it with screws to the brackets.

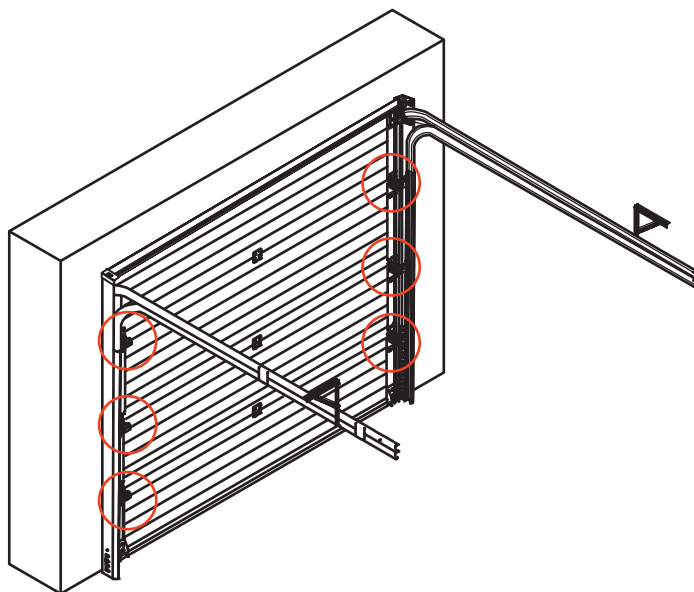
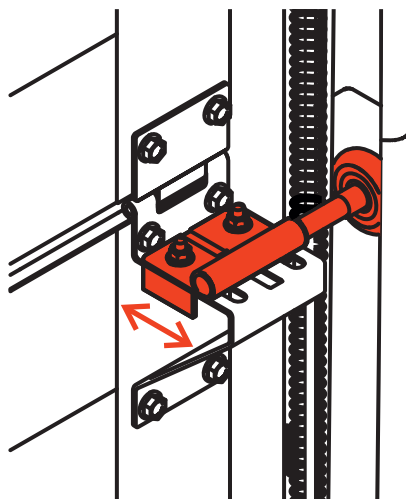


Allow an easy door motion by a correct springs adjustment.

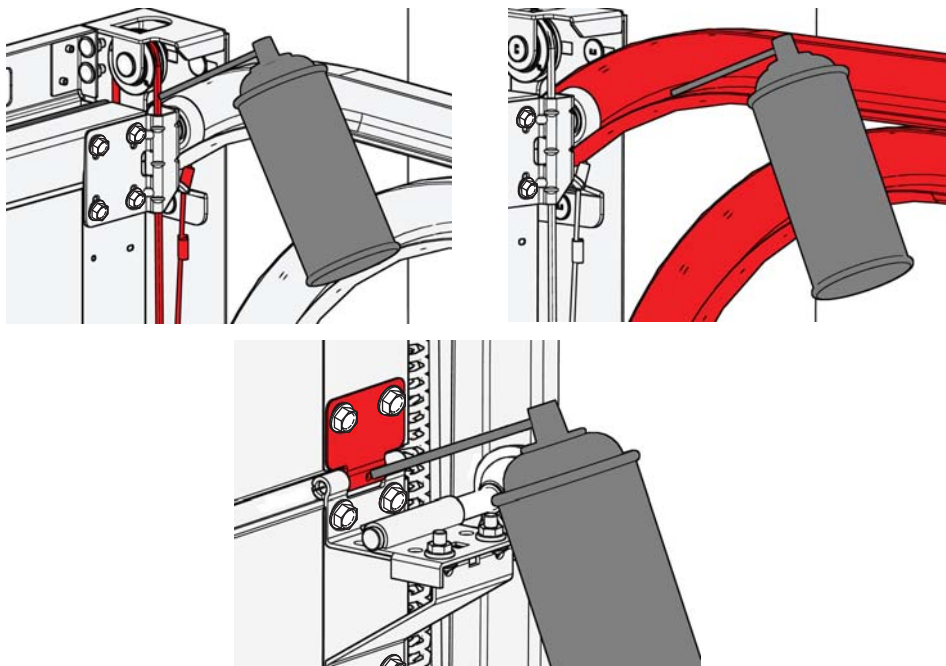




Adjust the side hinges to allow a 1mm gap between the section and the side sealing.



Lubricate sliding and moving parts by an oil spray.



### **Instructions for demounting**

**Release the tension springs before the start of the demounting works!**

#### **1) Disengagement of the extension springs**

Lift up the door leaf to the upper position, fix it against falling down. Unhook the bottom fixture from the bracket. Unfix the door leaf and let close slowly. Beware the doorleaf weight – it's not balanced by the springs anymore!

#### **2) Panel demounting**

After the spring Disengagement begin to demount the top, middle and side hinges. Begin to demount always from the top panel. After demounting the hinges on the panel remove it immediately. Repeat this procedure for all panels. Unlock the winding wire from the lower panel hinge and also remove this section.

#### **3) Demounting of torsion springs, drums and torsion bars**

Disengage the ensured screws on the drums and the ratchet-wheel of spring break protection. Than unscrew the torsion springs from the spring break protections. In case of two shafts demount the coupler. When using an industrial door opener, it has to be demounted from the torsion shaft before removing the shaft. Move the shaft to one side to pull it out of the spring break device. Than take it down from the console.

#### **4) Demounting the horizontal tracks**

Unscrew the perforated mounting profiles from the ceiling and also the screws connecting the horizontal and the vertical tracks.

#### **6) Demounting the vertical tracks**

Unscrew the vertical tracks from side walls.





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