



CE

119G3136AEN

FULL-HEIGHT
TURNSTILE



INSTALLATION MANUAL

PSHPS01



English

EN



CAUTION!

important personal safety instructions: READ CAREFULLY!



Foreword

• This product should only be used for the purpose for which it was explicitly designed. Any other use is considered improper and therefore dangerous. CAME Cancelli Automatici S.p.A. will not be held liable for damage caused by improper, incorrect or unreasonable use. • The safety of the product, and therefore its proper installation, depends on total compliance with the technical specifications and installation procedures, as well as with rules regarding safety and use, expressly mentioned in the technical documentation for the products themselves. • Keep these warnings together with the installation and operation manuals for the operator system components.

Before installing

(preliminary check: in case of a negative outcome, do not proceed until you have complied with the safety requirements)

• Installation and testing must only be performed by qualified personnel • Cable routing, installation, connection and testing must be carried out to the highest levels of workmanship in accordance with applicable laws and regulations • Before starting any operation, read all the instructions carefully; incorrect installation can be dangerous and harm persons or property • Check that the operator is in good mechanical condition, balanced and aligned, and that it opens and closes properly. If needed, also install suitable guards or use appropriate additional safety sensors • If the operator will be installed at a height of less than 2.5 m from the ground or other access level, check whether you will need any protections and/or warnings • Ensure that opening the turnstile does not create a dangerous situation • Do not mount the operator upside down or onto any elements that may fold under its weight. If needed, add suitable reinforcements at the points where it is secured • Do not install on ground that is not level • Check that any lawn watering devices will not wet the operator from the bottom up.

Installation

• Carefully section off the entire site to prevent unauthorised access, especially by minors and children • Be careful when handling operators that weigh more than 20 kg. In such cases, use proper weight handling safety equipment • CE safety devices (photocells, platforms, sensitive edges, emergency button etc.) must be installed in compliance with applicable legislation and according to the highest standards of workmanship, bearing in mind the environment, the type of service required and the operating forces applied to the moving turnstiles. Points where there is a risk of crushing, shearing or dragging must be protected using suitable sensors • End users must be informed of any residual risks by means of special pictograms as envisaged by legislation • All opening commands (buttons, key selectors, magnetic readers etc.) must be installed at least 1.85 m from the perimeter of the area of turnstile movement, or where they cannot be reached from outside through the turnstile. Also, the direct commands (buttons, touch commands etc.) must be installed at a height of at least 1.5 m and must not be accessible to the public • The turnstile identification data must be clearly visible • Before connecting the turnstile to the power supply, make sure the identification data corresponds to the mains data • The turnstile must be connected to an effective, compliant earthing system. • The manufacturer disclaims any liability for the use of non-original products; this also results in the invalidation of the warranty • All 'hold-to-run' commands must be placed where the moving turnstile, transit areas and driveways are completely visible • Before delivery to the user, check that the system complies with the EN 12453 and EN 12445 standards (impact tests), check that the operator has been properly adjusted and that the safety and protective devices work correctly • As appropriate and in a visible position, affix warning symbols.

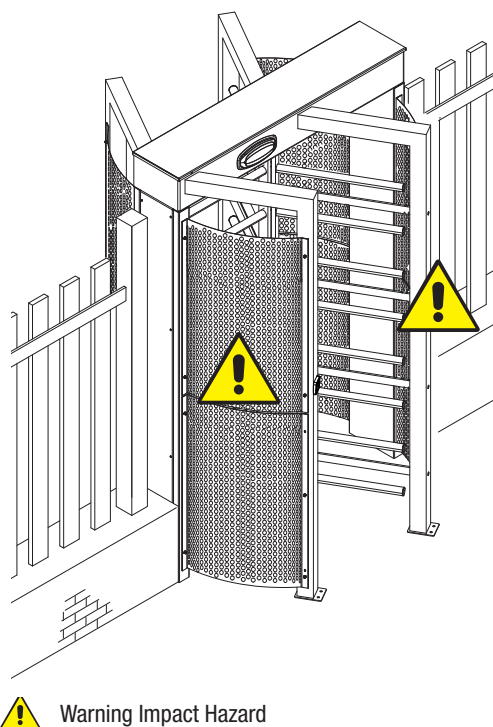
Special instructions and advice for users

• Keep the turnstile's area of operation clean and clear of any obstacles. Check that the photocells' area of operation is free from obstacles • Children must be supervised to make sure they do not play with the operator and the fixed control devices or stand in the turnstile's area of operation. Keep any remote control devices (i.e. transmitters) or any control devices away from children as well, to prevent the operator from being activated accidentally • The operator is not designed to be used by persons (including children) whose physical, sensorial or mental capacities are limited, or who are lacking in experience or

knowledge, unless said persons can be supervised or given instructions regarding using the operator by a person responsible for their safety • Frequently check the system, to see whether any anomalies or signs of wear and tear appear on the moving parts, on the component parts, on the securing points, on the cables and any accessible connections. Keep any joints lubricated and clean, and do the same where friction may occur • Perform functional tests on photocells every six months. Ensure that the glass on the photocells is kept clean (use a cloth slightly moistened with water; do not use solvents or any other chemicals as these could damage the devices) • If the system requires repairs or modifications, disconnect the power to the operator and do not use it until safety conditions have been restored • Cut off the electrical power supply for manual opening. Read the instructions • If the power cable is damaged, it must be replaced by the manufacturer or the technical assistance service or by a person with a similar qualification so as to prevent any risks • It is STRICTLY FORBIDDEN for users to perform OPERATIONS THEY ARE NOT EXPLICITLY REQUIRED AND ASKED to do. For repairs, adjustments and extraordinary maintenance, CONTACT THE SPECIALIST TECHNICAL SERVICE CENTRE. On the periodic maintenance log, note down the checks you have done.

Further special instructions and advice for all

• Avoid working near the turnstiles or moving mechanical parts • Stay clear of the turnstile's area of operation when in motion • Do not resist the direction of movement of the operator; this may present a safety hazard • At all times be extremely careful about dangerous points that must be indicated by proper pictograms and/or black and yellow stripes • When using a selector or command in 'hold-to-run' mode, keep checking that there are no people in the area of operation of the moving parts. Do this until you release the command • The turnstile may move at any time without warning • Always cut the power when cleaning or performing maintenance.



KEY

-  This symbol indicates parts to read carefully.
-  This symbol indicates parts about safety.
-  This symbol tells you what to say to the end users.

DESCRIPTION

Two-way full-height turnstile; galvanised, painted steel structure, composed of two load-bearing side columns and an upper crosspiece, all equipped with casing that can be opened. The rotating column, the 3 sets of arms with a diameter of 40 mm and the pierced sheet metal protective grids are made from AISI 304 stainless steel.

The turnstile allows one person at a time to move in one direction only. Column rotation is regulated by a hydraulic decelerator. The mechanism has an anti-rotation system that intervenes when the rotating column exceeds an angle of 60°.

Intended use

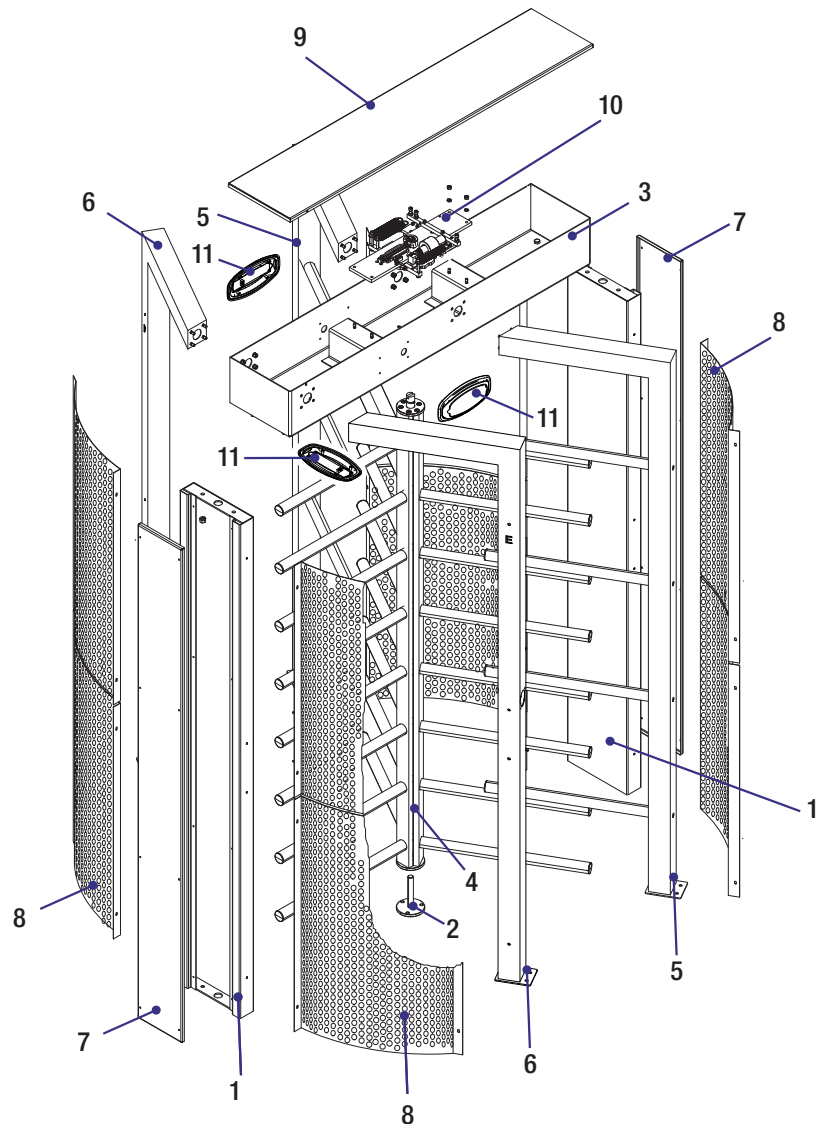
The GUARDIAN mechanical turnstile has been designed and manufactured by Came Cancelli Automatici S.p.A. in compliance with applicable safety standards, for secure access to large entrances, which may also be unattended, with high pedestrian traffic, such as stadiums, airports, stations, public offices and all areas where pedestrian flows must be regulated and/or selected.

 Any installation and operation that differs from what is set out in this manual is prohibited.

Description of the components

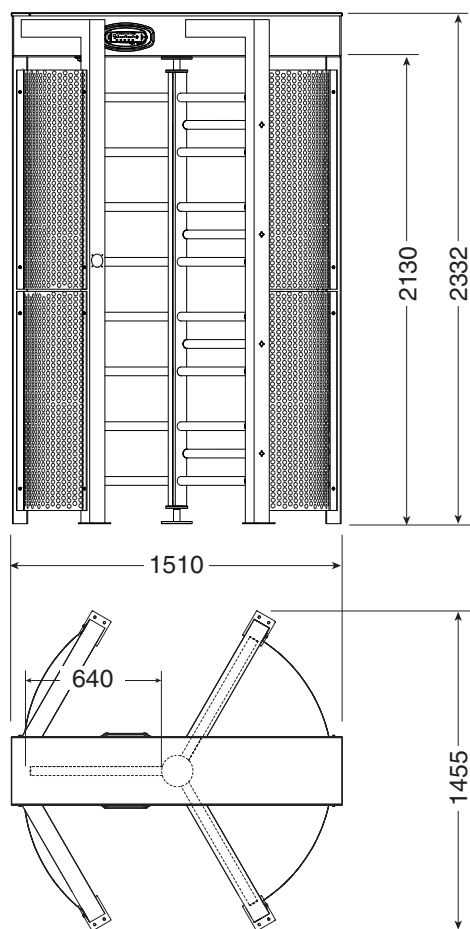
1. Load-bearing column
2. Lower pin
3. Crosspiece
4. Rotating column
5. Central posts (with arms)
6. Side posts
7. Column casing
8. Protective grid
9. Crosspiece casing
10. Rotation mechanism
11. Plastic cover

 Caution: for correct assembly, posts 5 and 6 are marked with identification letters.

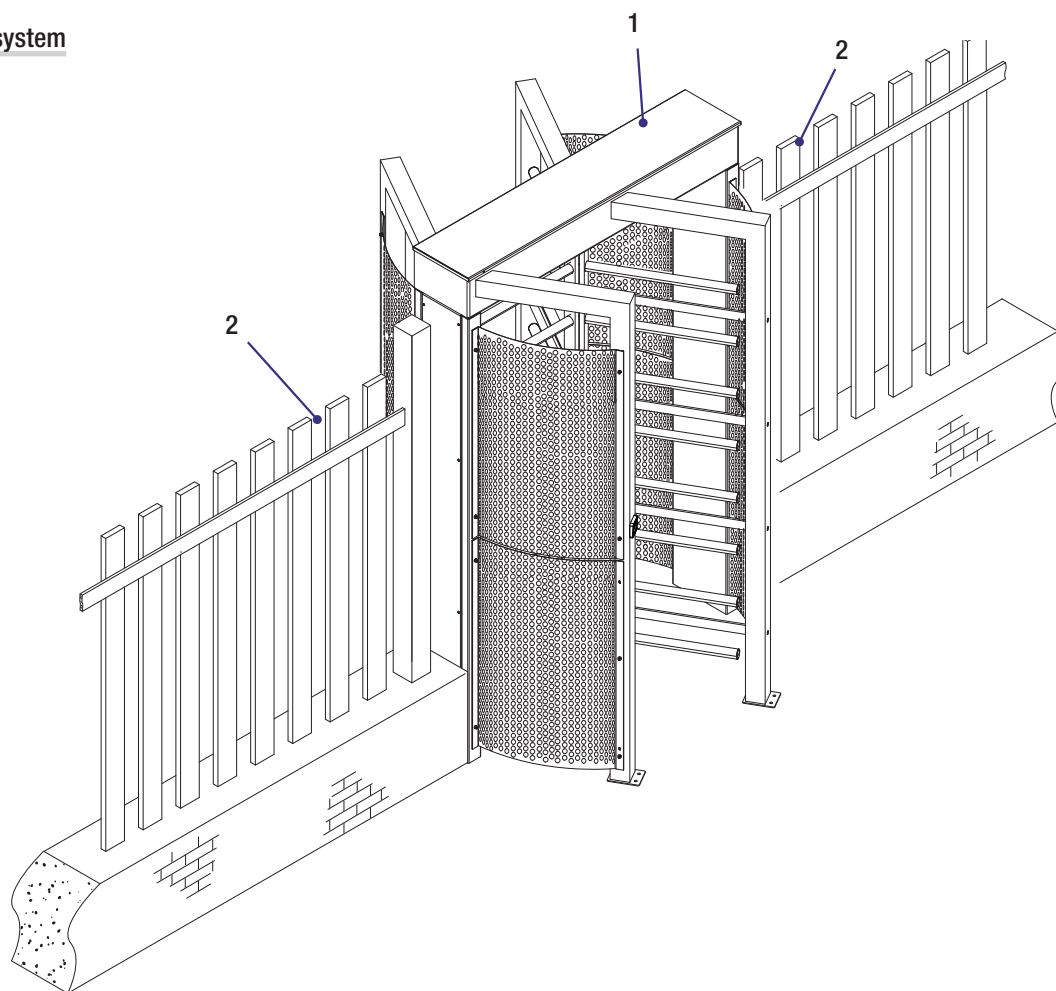


Technical data

Type	PSHPS01
Operating temperature (°C)	-20 - +55
Weight (kg)	360

Dimensions (mm)**Example of a system**

1. Turnstile
2. Enclosure



GENERAL INSTALLATION INSTRUCTIONS

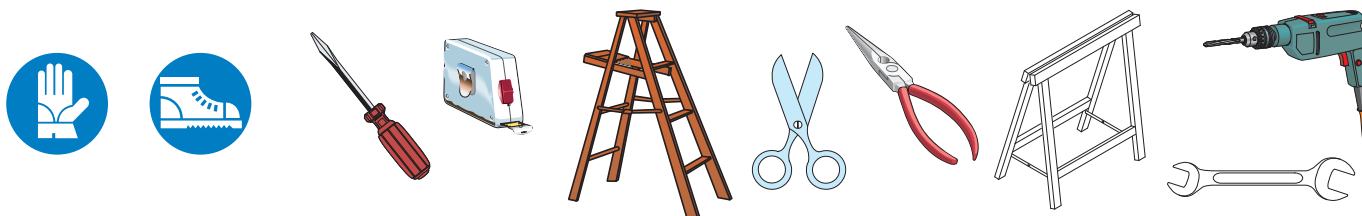
⚠ Installation must be carried out by qualified and experienced personnel in compliance with applicable regulations.

Preliminary checks

⚠ Before installation, check that the area around the opening is in good condition and that there are no dips. If necessary, create a special concrete base (1800 mm x 1600 mm x 120 mm) to ensure that the turnstile is properly secured.

Tools and materials

Make sure you have all the tools and materials you will need for the installation at hand to work in total safety and compliance with current standards and regulations. The figure shows some examples of installer's tools.

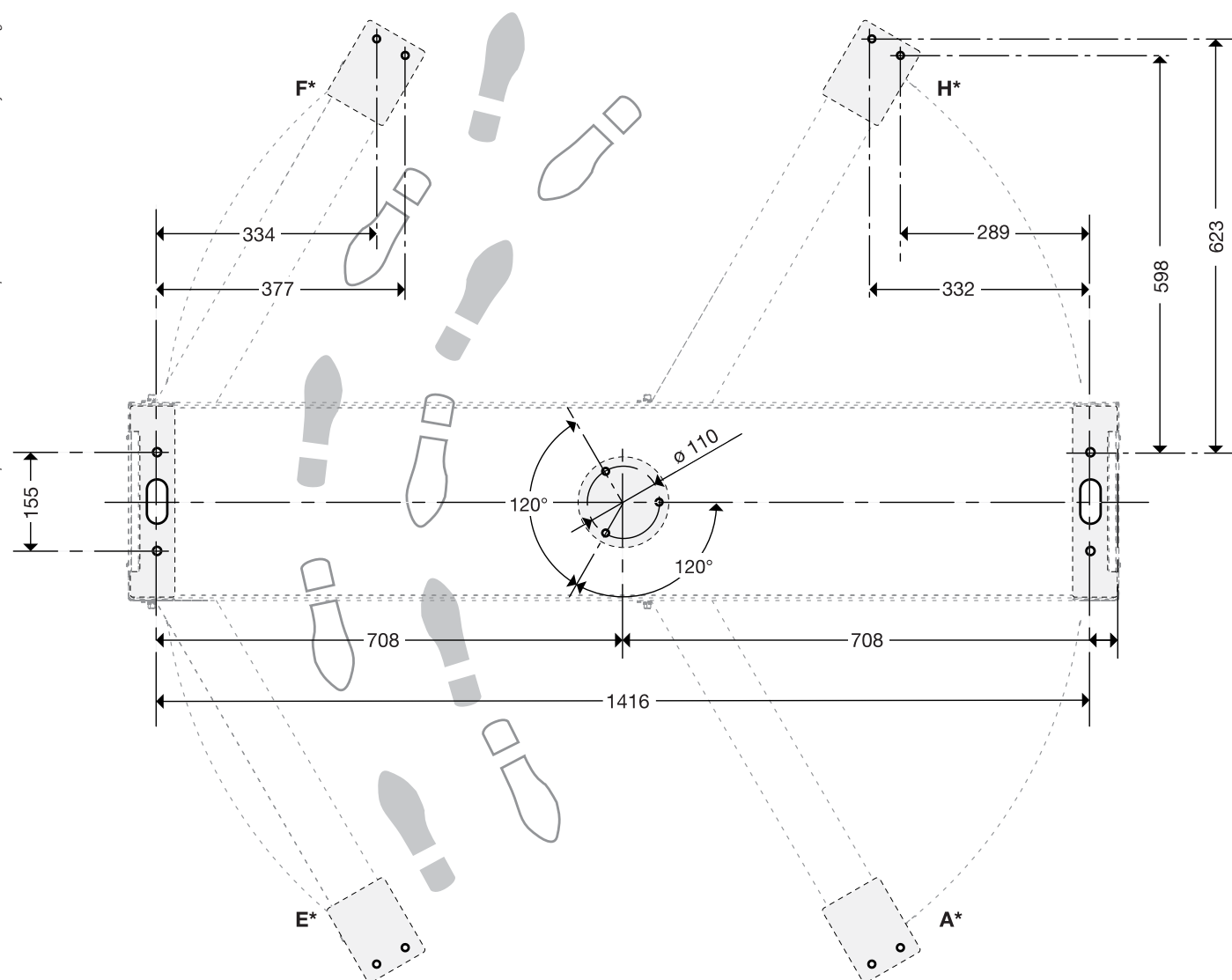


INSTALLATION

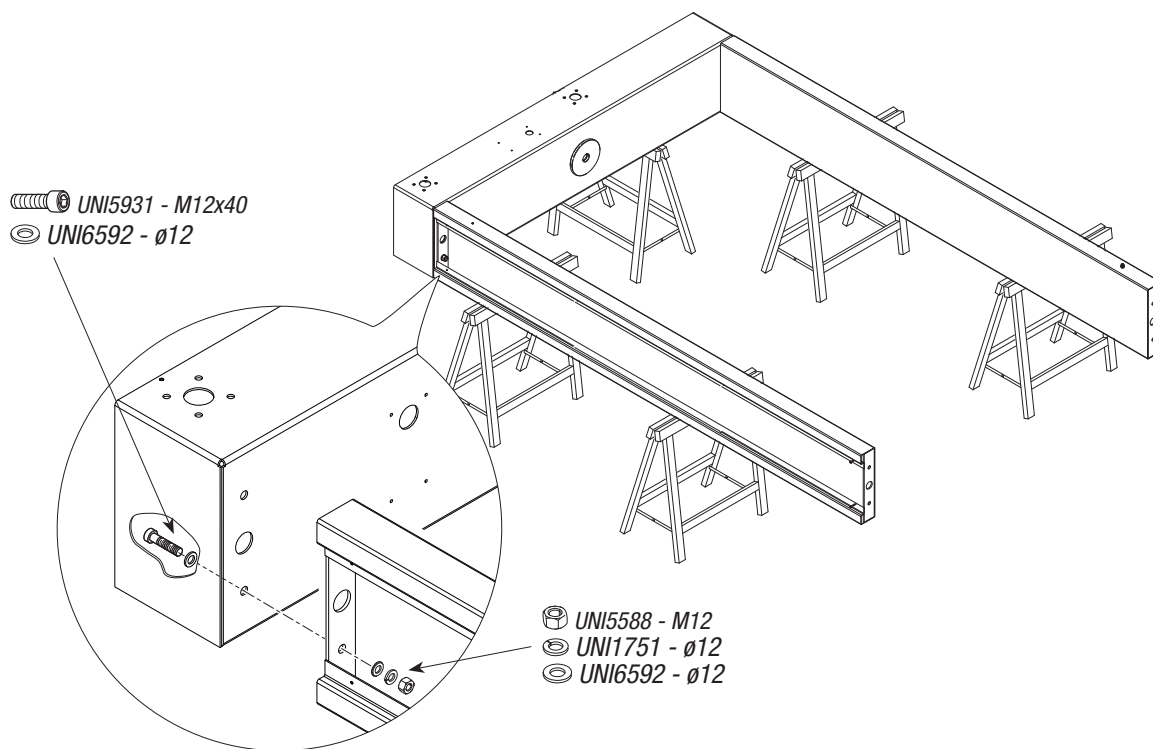
⚠ Caution: the product must be assembled by two or three people. Use lifting equipment to transport and position the turnstile. While securing the turnstile, it may be unstable and could topple over, so take care not to let go of it until it is completely secure.

Trace the axes for the fixing holes for the vertical components of the structure taking careful notice of the figure as regards the entrance/exit side layout. Provide fixing components that are suitable for the type of floor. The holes in the structure measure $\varnothing 10.5$.

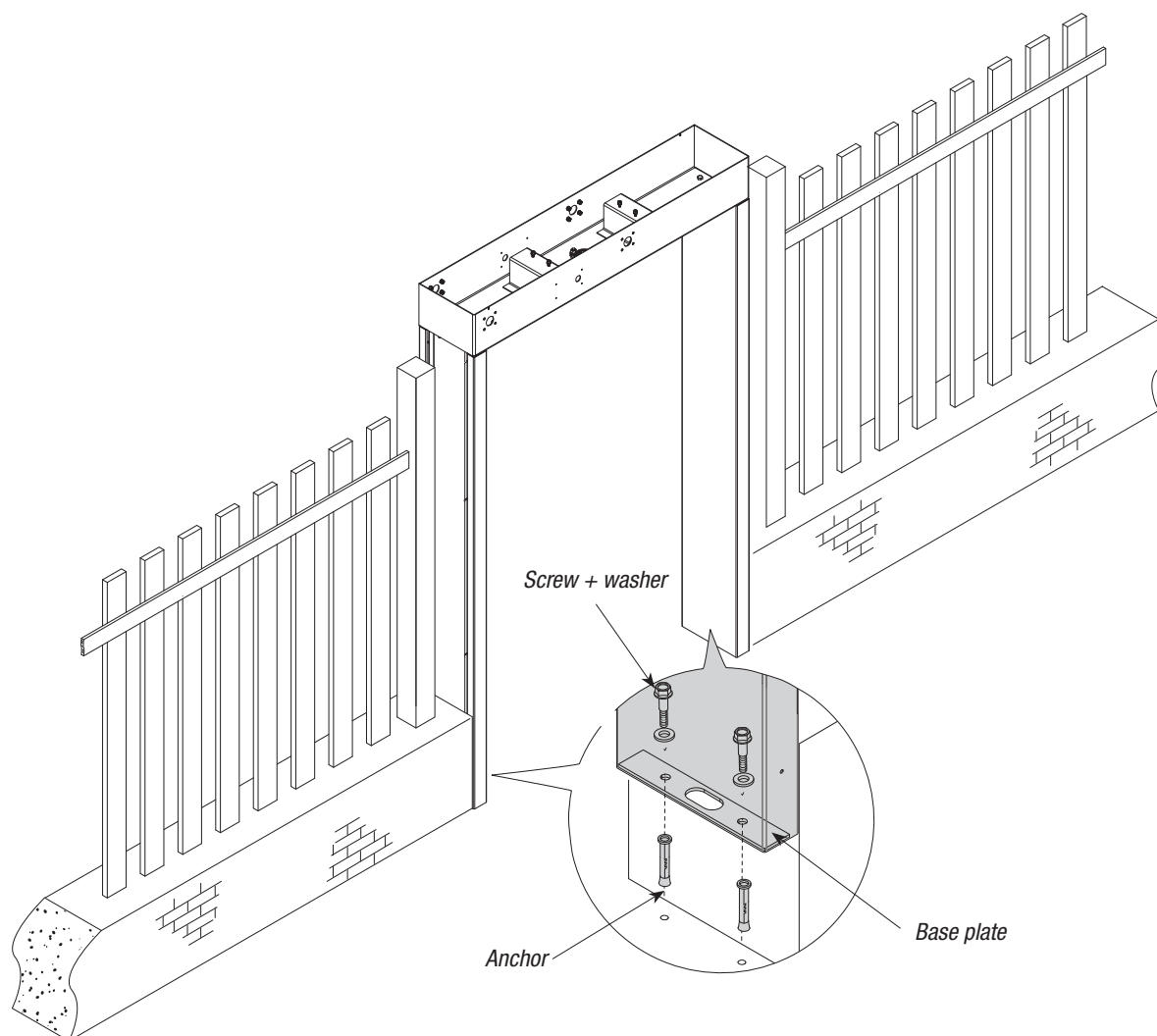
* A-E-F-H = codes engraved on the structure of the posts.



Secure the load-bearing columns to the crosspiece using the nuts and bolts supplied.

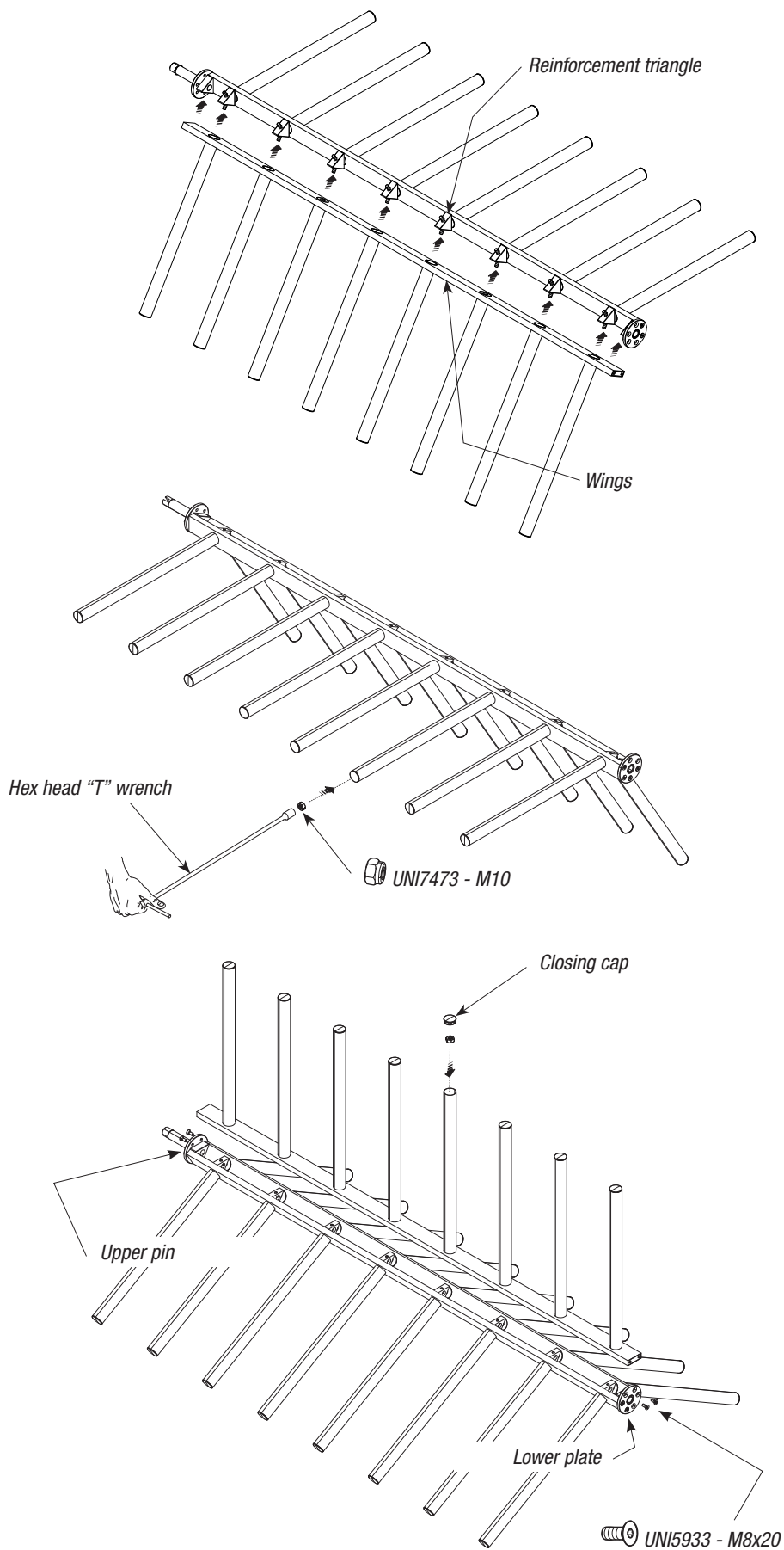


Raise the structure and secure it in the holes prepared in the floor.

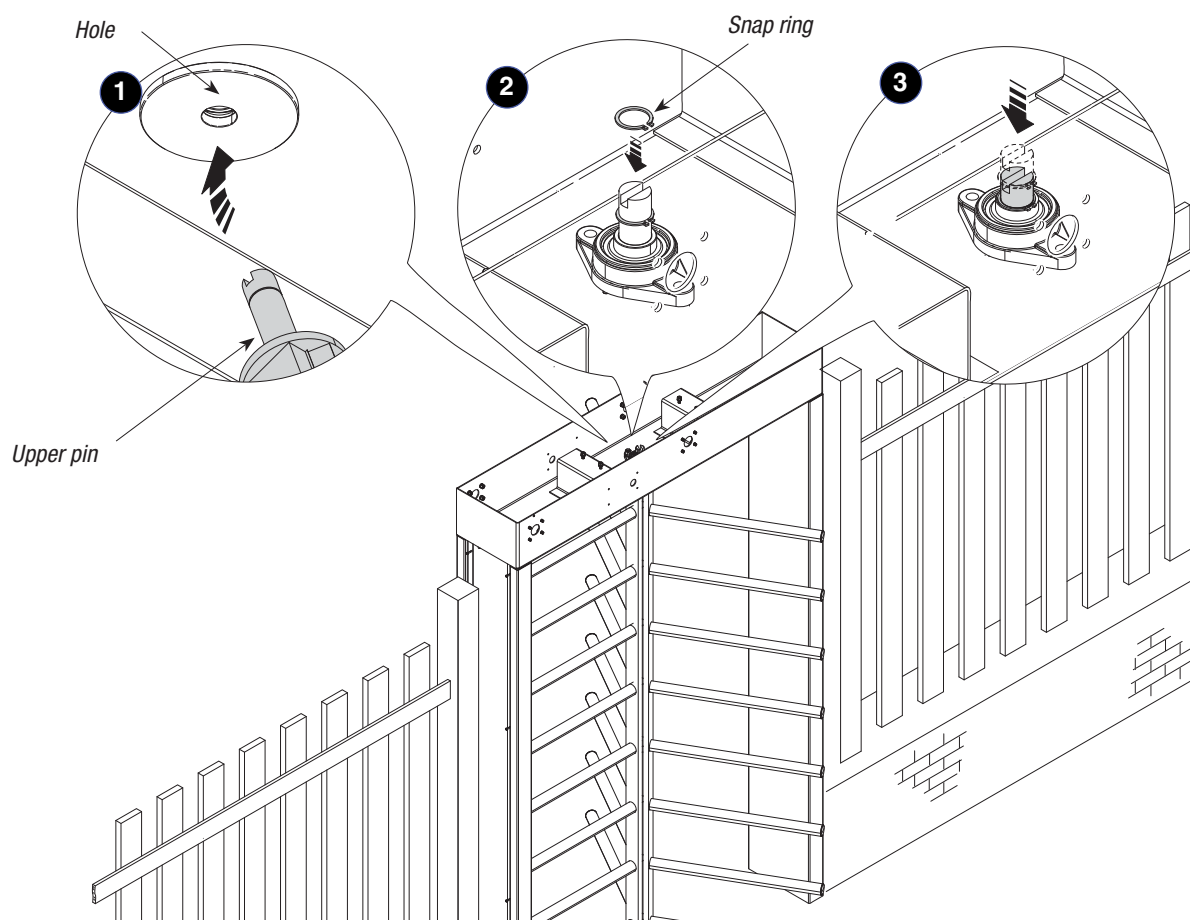


Assemble the 3 wings on the rotating column by the reinforcement triangle, using the nuts and "T" wrench supplied. Then finish securing the upper and lower plates.

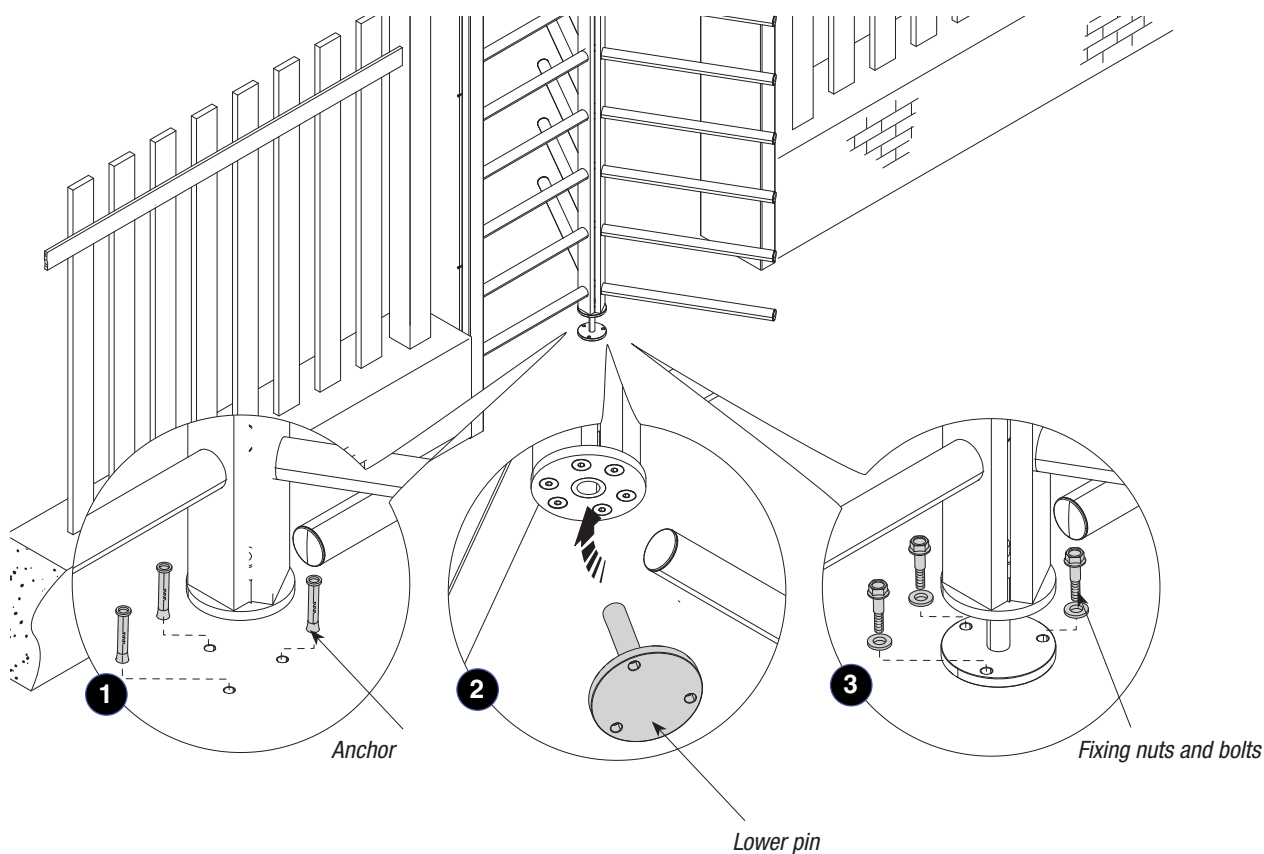
Insert the caps using a mallet if necessary and secure them using silicone.



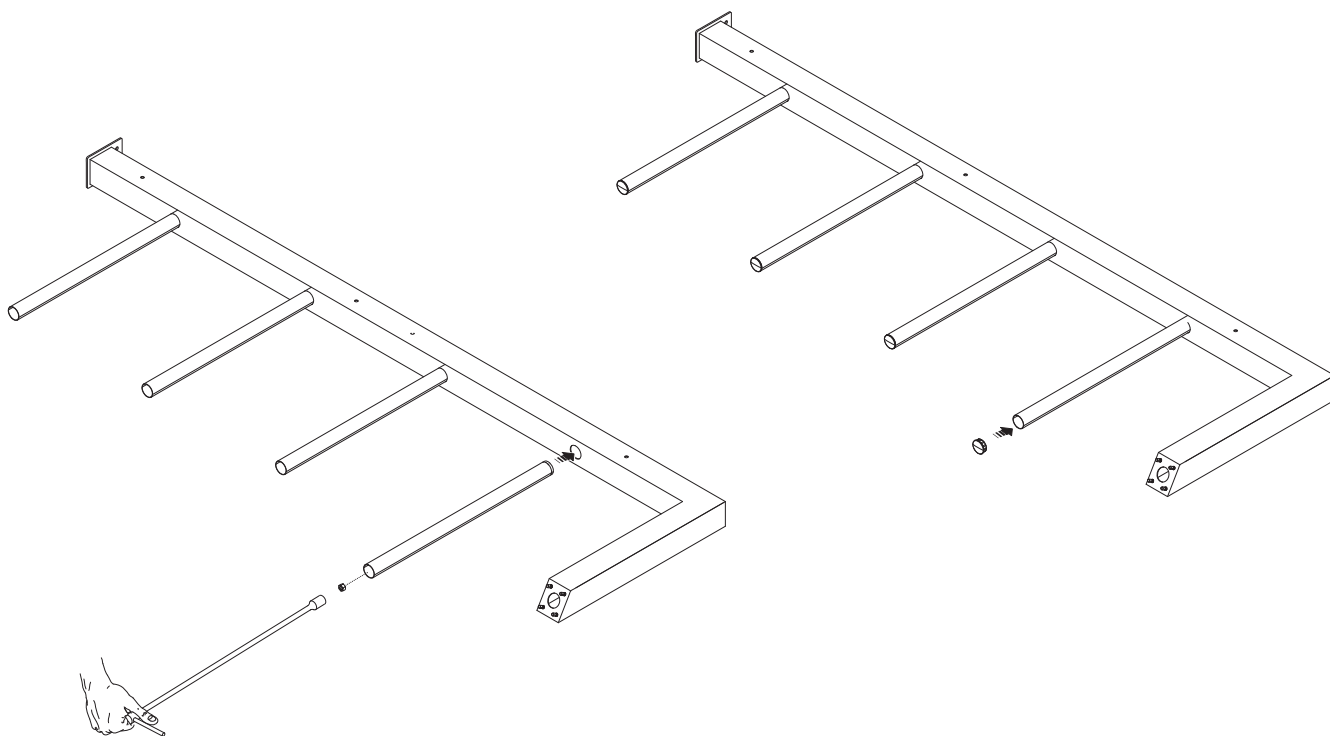
Insert the upper pin on the rotating column in the hole under the crosspiece. Insert the snap ring in the pin slot and leave the column suspended.



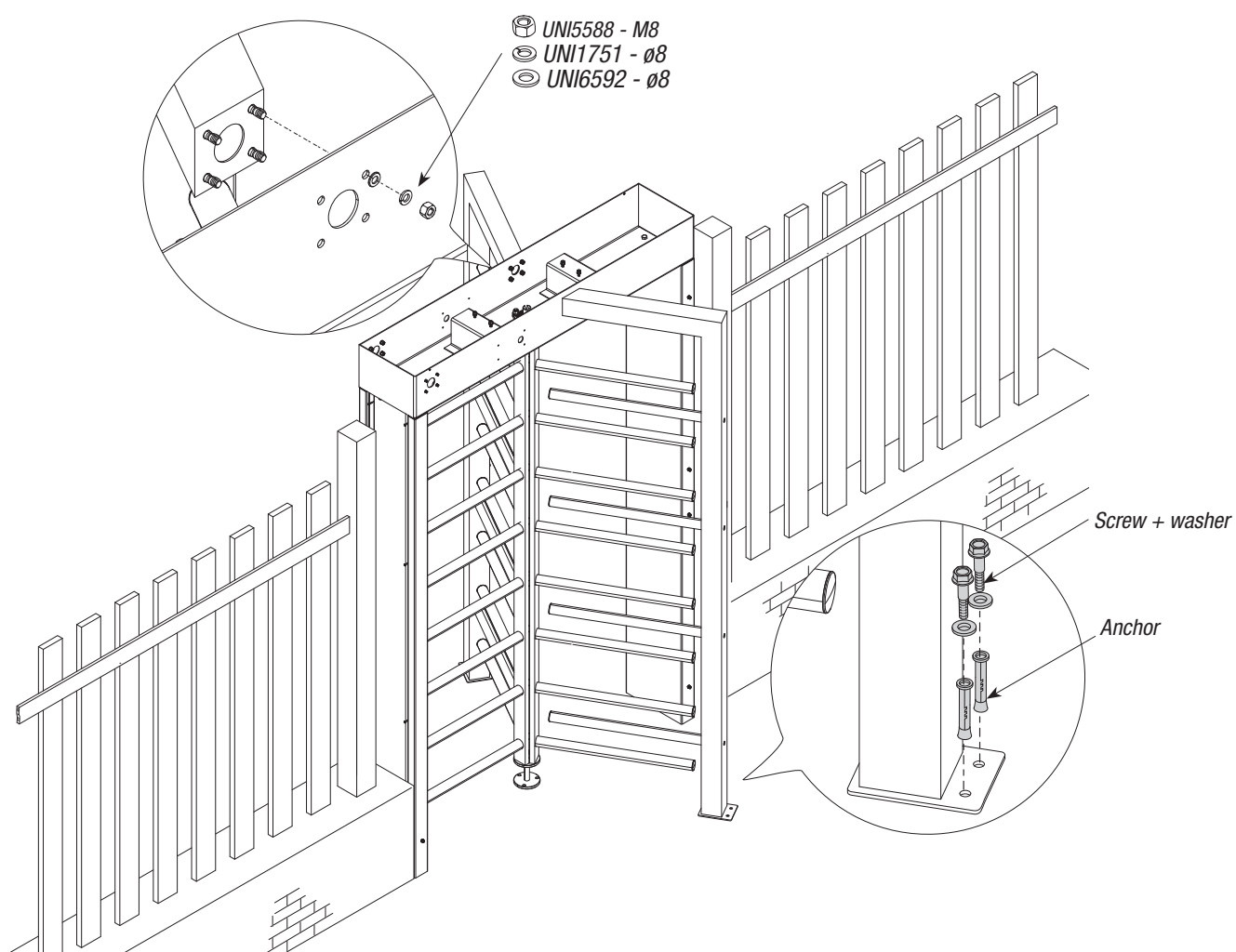
Place the anchors in the holes, insert the lower pin under the rotating column and secure it to the floor in the prepared holes.



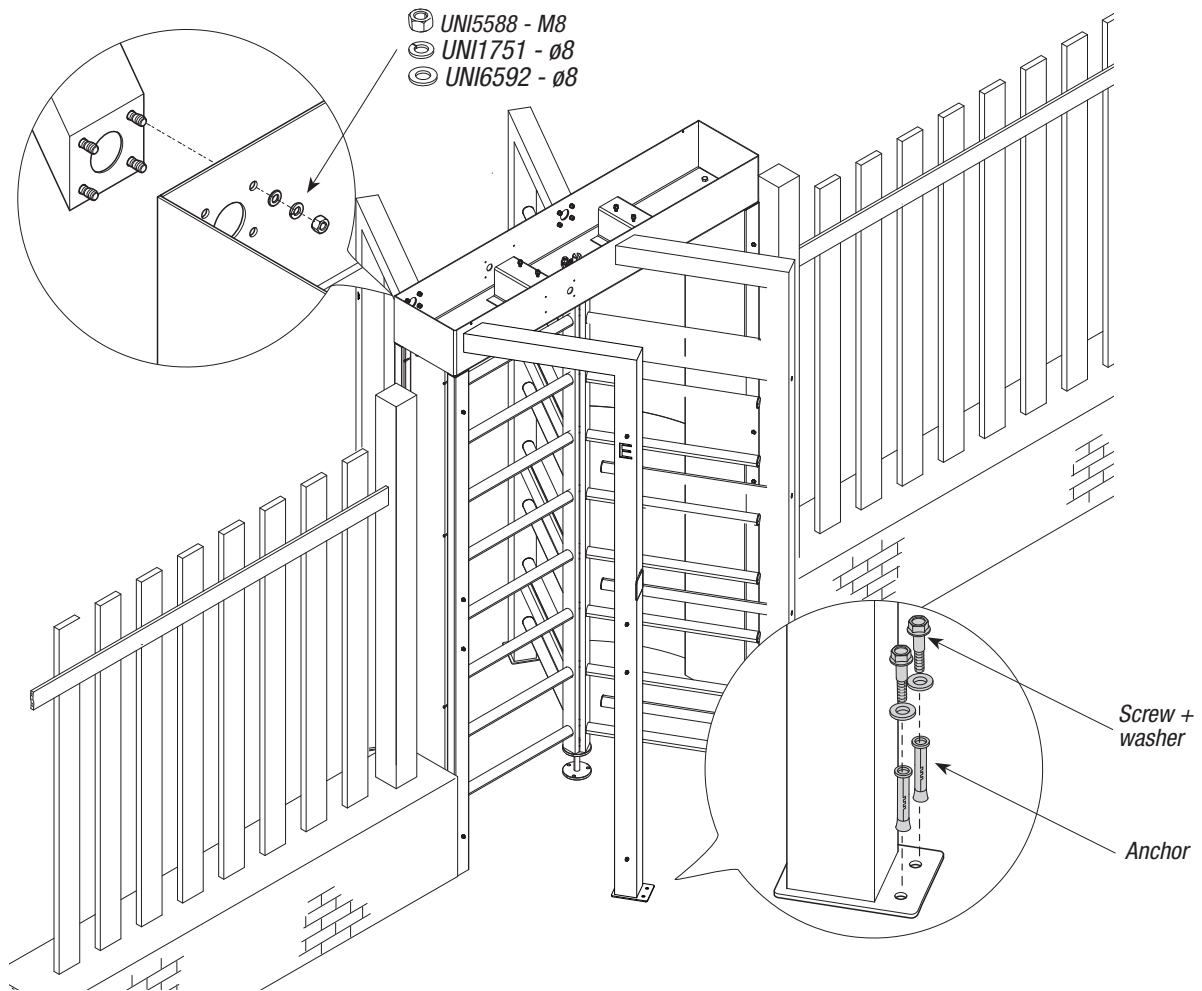
Secure the arms to the central posts (A and H) using the nuts and the "T" wrench supplied. Insert the caps using a mallet if necessary and secure them using silicone.



Secure them to the centre of the crosspiece using the nuts and bolts supplied, and then to the floor in the prepared holes.



Secure the side posts (F and E - no arms) to the end of the crosspiece using the nuts and bolts supplied, and then to the floor in the prepared holes.



Choose the direction in which the turnstile is to rotate.

N.B. the factory setting for the turnstile is clockwise rotation for the mechanism, fig. A.

If you want to reverse the direction of rotation, move the return spring onto the second spring stretcher, fig. B.

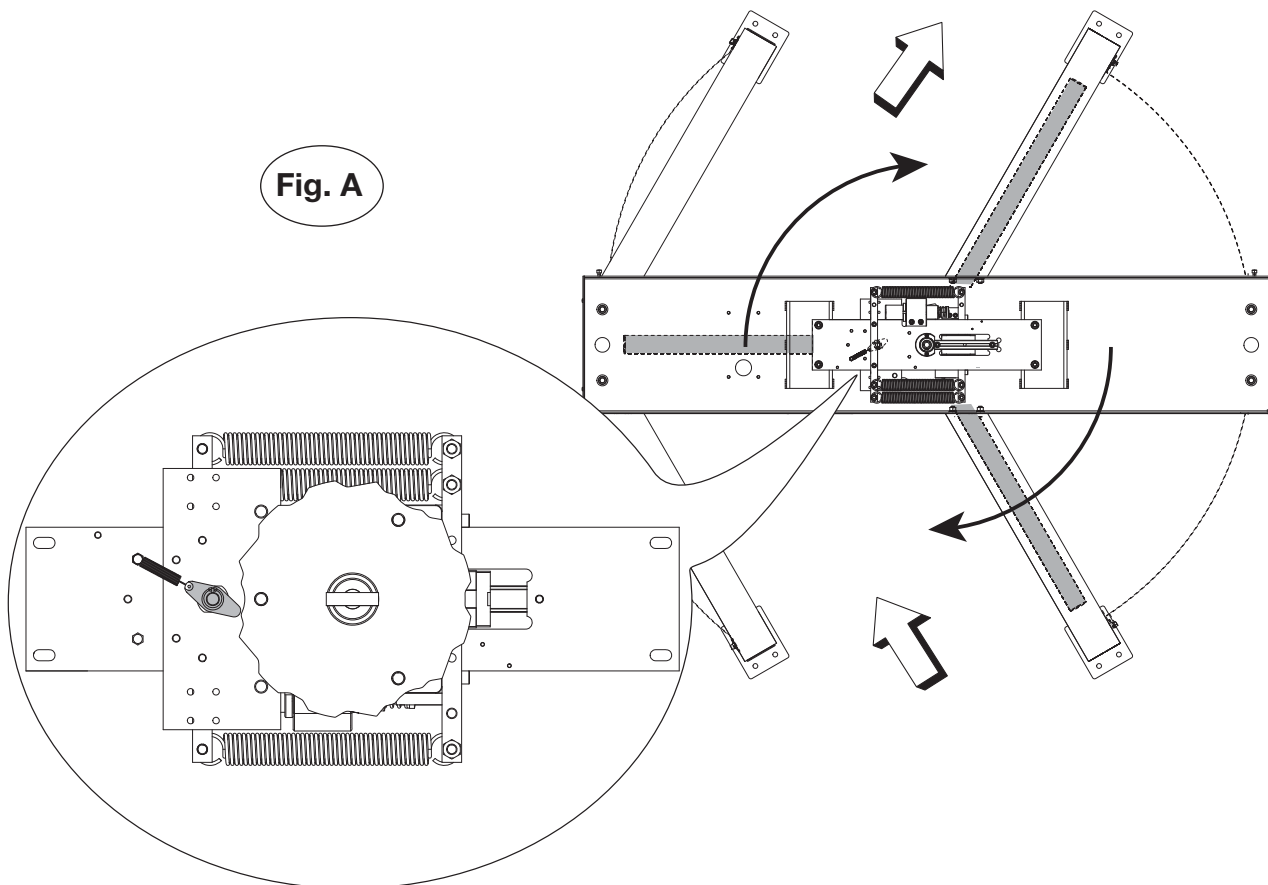
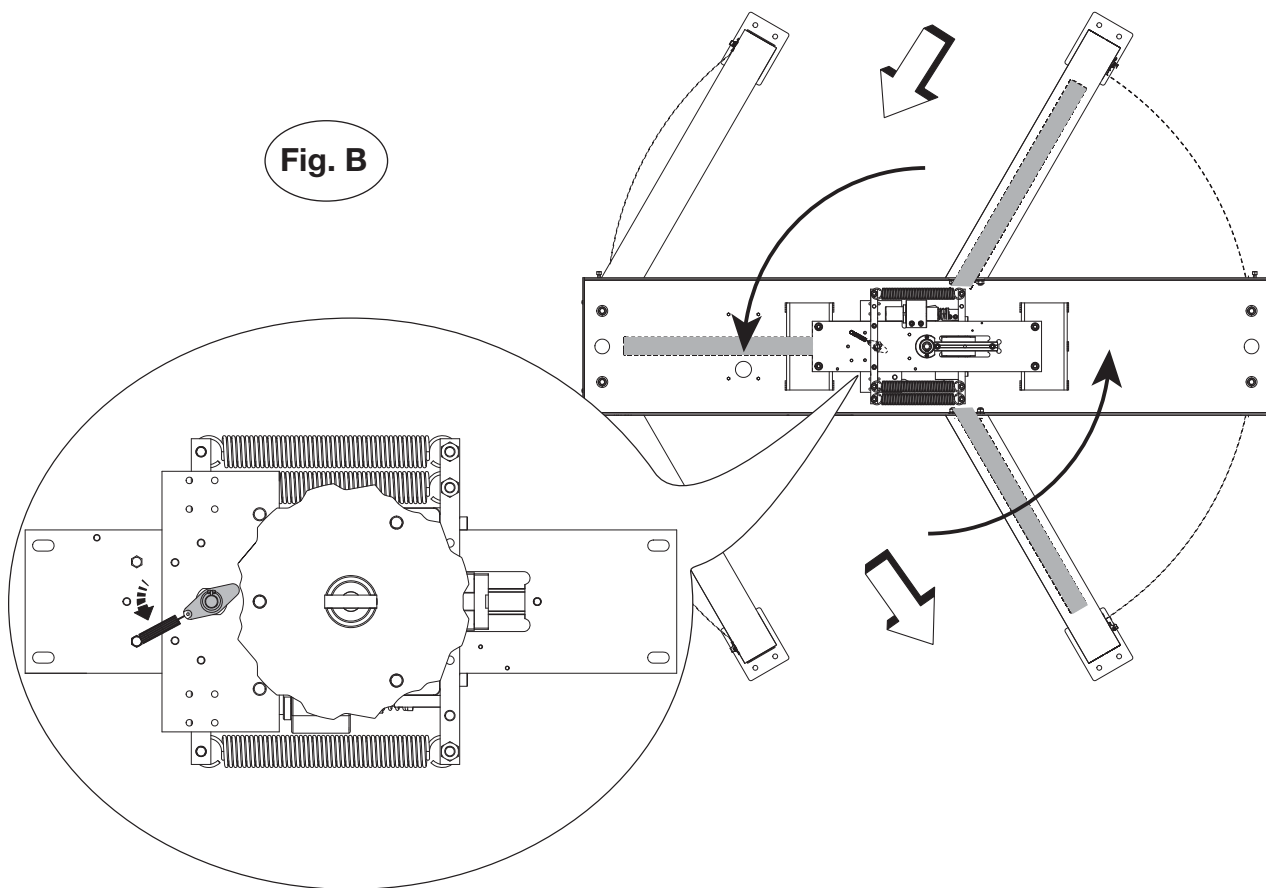
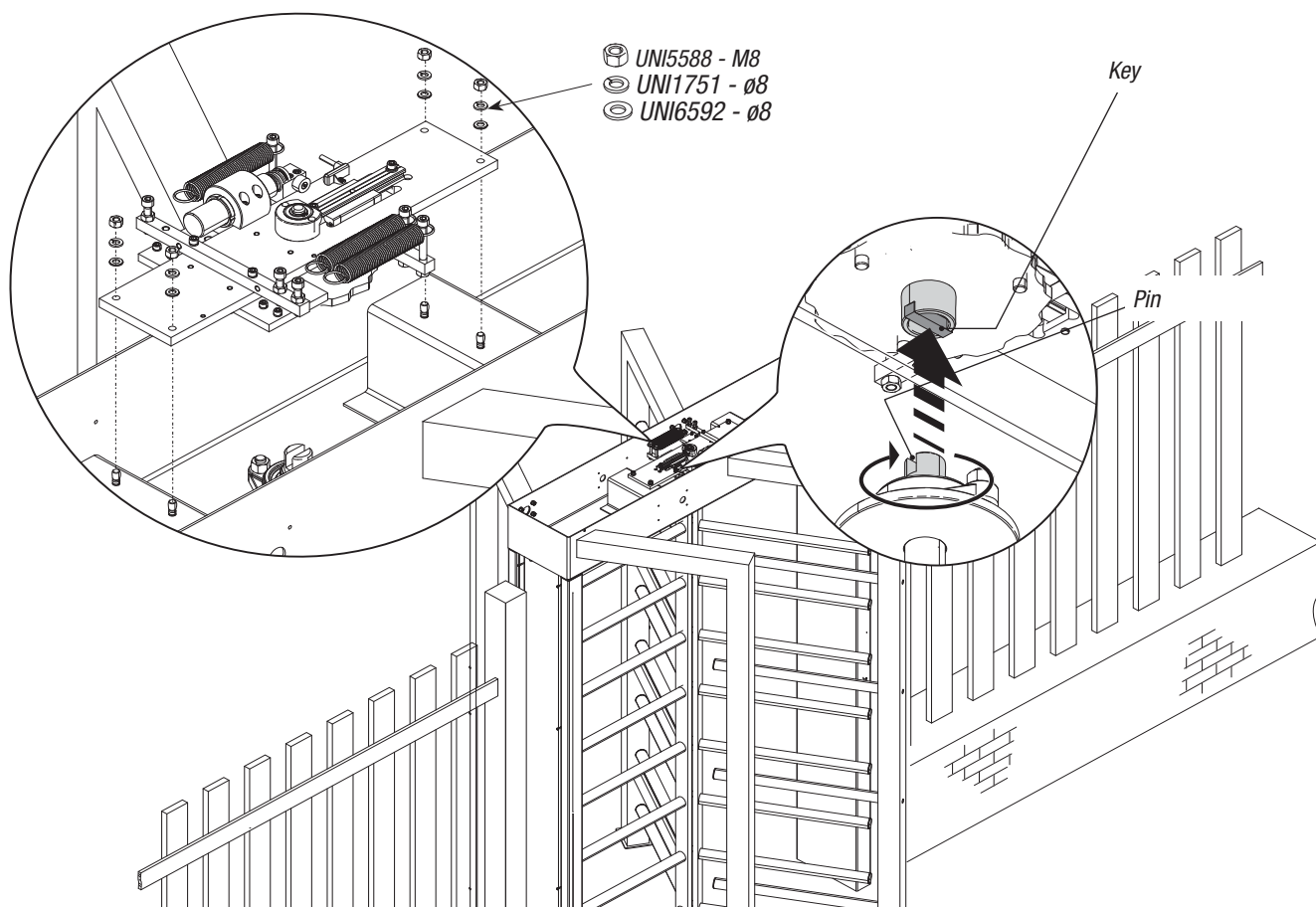


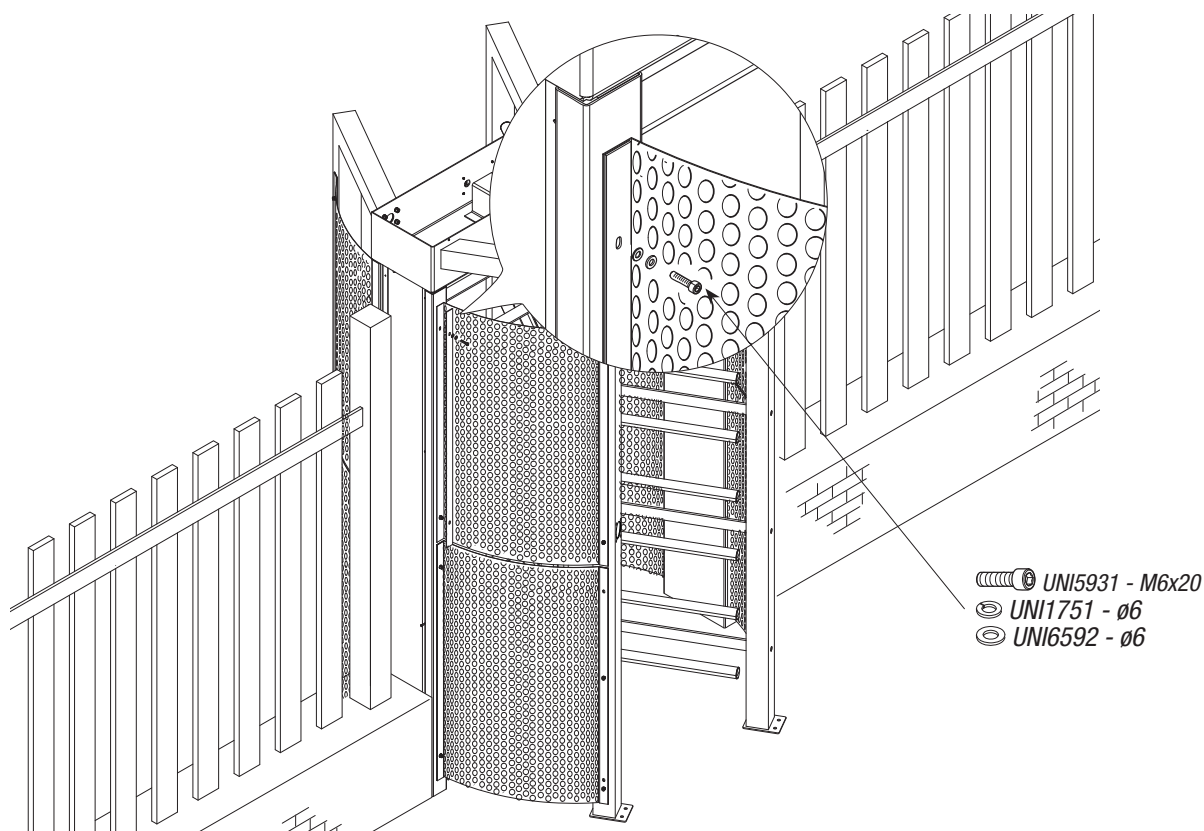
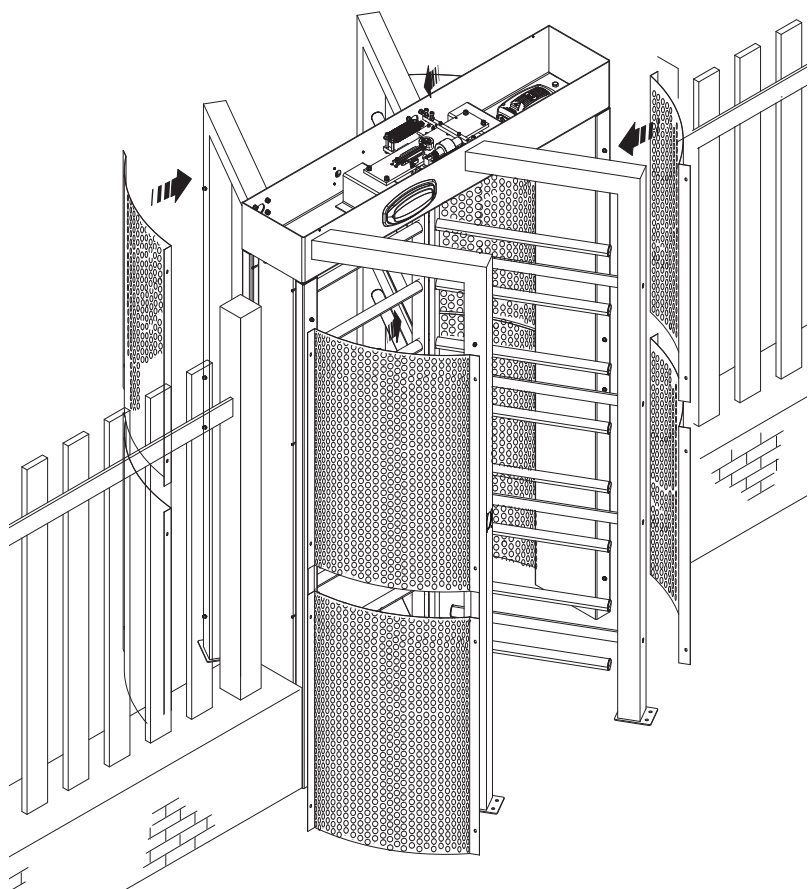
Fig. B



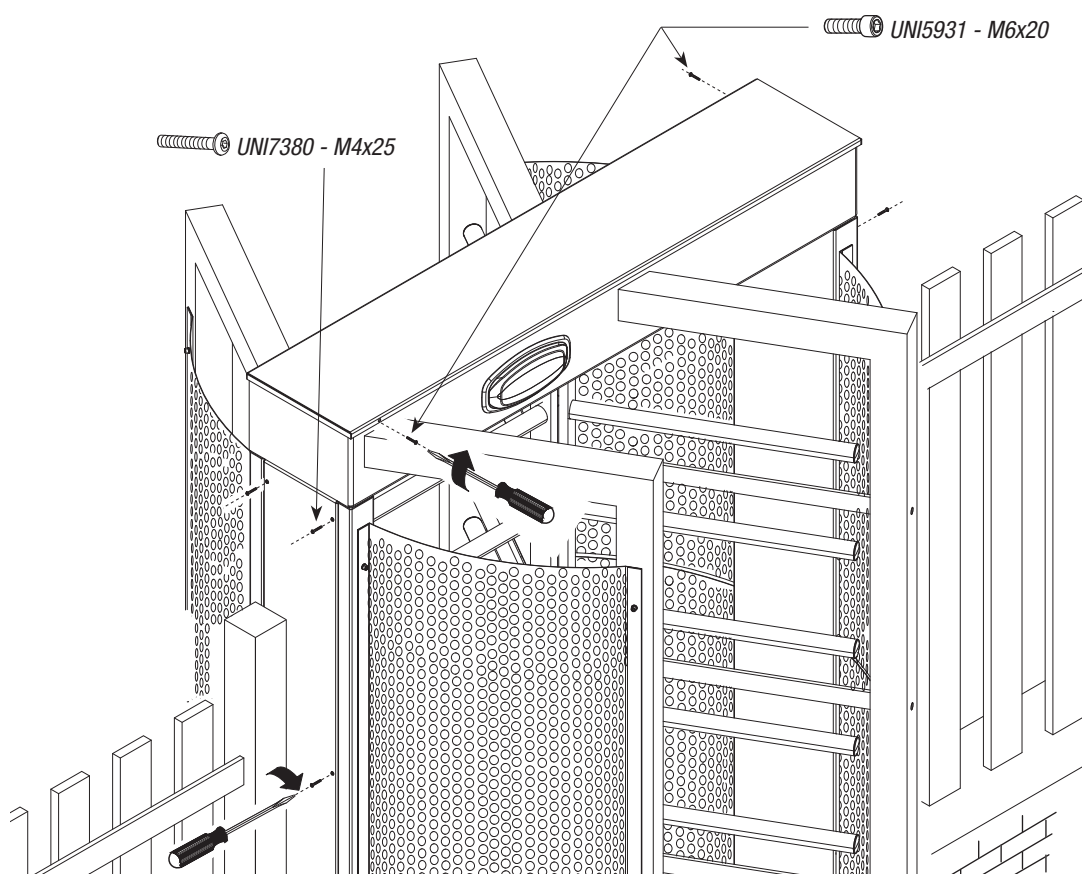
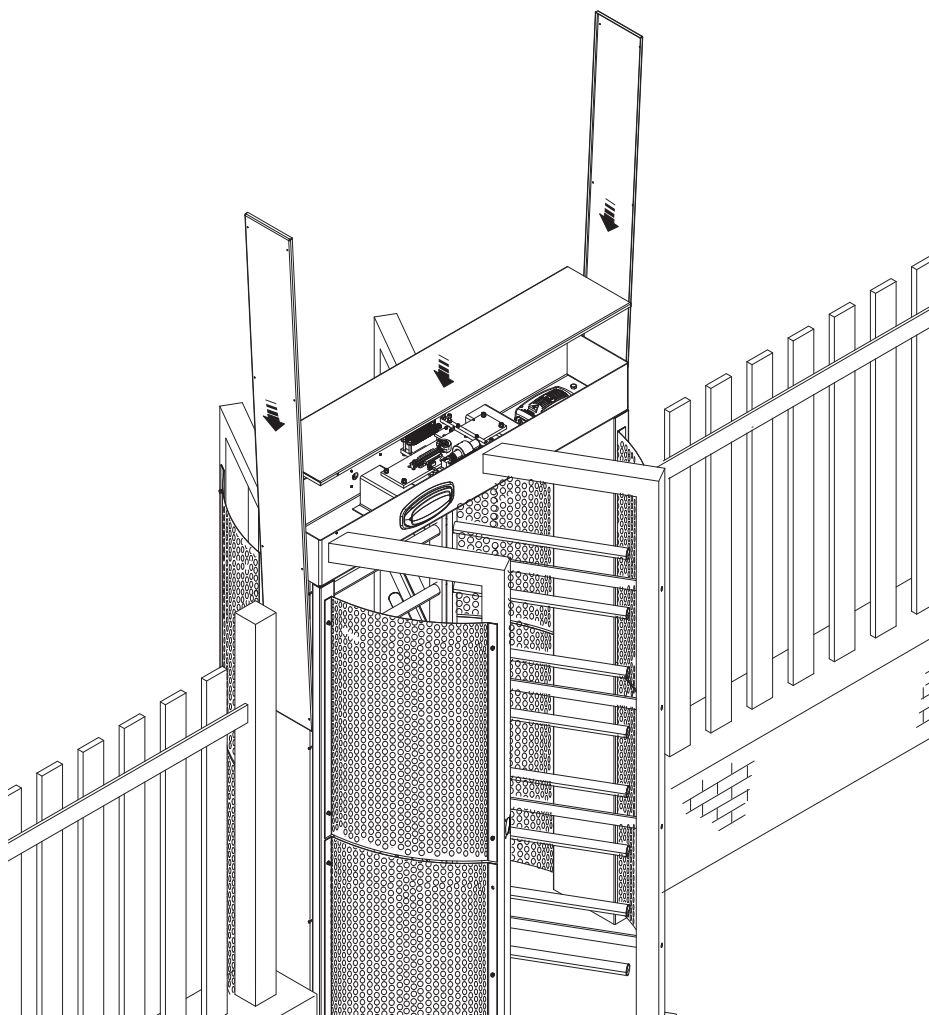
Position the rotation mechanism above the upper pin, rotating the column until the pin is coupled to the key. Then secure the mechanism using the nuts and bolts supplied.



After performing the rotation test, assemble and secure all the protective grids using the nuts and bolts supplied.



In the same way, assemble the casing for the side columns and the upper crosspiece.



MAINTENANCE



The periodic interventions to be carried out are as follows:

- Checking, by turning the turnstile, that there are no abnormal movements and that rotation is smooth. Any sudden locking could be a sign of malfunctioning.
- Do not clean the turnstile with products containing chemicals that could damage the stainless steel. Do not use abrasive substances or cloths that could cause scratches.

DISMANTLING AND DISPOSAL

CAME CANCELLI AUTOMATICI S.p.A. implements an EN ISO 14001 certified and compliant Environmental Management System at its plants, to ensure environmental protection.

Please continue our efforts to protect the environment, something that CAME considers to be one of the foundations in developing its business and market strategies, simply by observing brief recommendations as regards disposal:

DISPOSAL OF PACKAGING

Packaging components (cardboard, plastic etc) can be disposed of together with normal household waste without any difficulty, by simply separating the different types of waste and recycling them.

Before proceeding, it is always advisable to check specific regulations in force in the place of installation.

DISPOSE OF PROPERLY!

DISPOSAL OF THE PRODUCT

Our products are made with different materials. Most of them (aluminium, plastic, iron, electrical cables) can be disposed of together with normal household waste. They can be recycled if collected, sorted and sent to authorised centres.

Other components (circuit boards, transmitter batteries etc.), on the other hand, may contain pollutants.

They should therefore be removed and handed over to companies authorised to recover and recycle them.

Before proceeding, it is always advisable to check specific regulations in force in the place of disposal.

DISPOSE OF PROPERLY!

REGULATORY REFERENCES

The product complies with the REACH regulation - 1907/2006/EC.



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