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GLORY FR Series T2233 Fire-proof/Insulated Landing Door

Installation Guide

Industrial Automation | Intelligent Elevator | New Energy Vehicle | Industrial Robot | Rail Transit

Data code PS00021356A00

Legal Information

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Due to continuous updates and improvements of products and technologies, the content of this documentation may not fully match the actual products. In the event of any discrepancies, the actual products shall prevail.

The contents are subject to change without notice due to product upgrade.

Waste Disposal

The storage, use, and disposal of this product (including optional accessories) must comply with local laws and regulations.

Qualified Personnel

The product/system described in this documentation may be operated only by personnel qualified for the specific task in accordance with the relevant documentation, in particular its warning notices and safety instructions. Qualified personnel can identify the risks of the product/system and prevent possible dangers.

Proper Use of the Product

Proper transportation, storage, assembly, installation, commissioning, operation, and maintenance are required to ensure the safe operation of the product without any problems. The required ambient conditions must be met. All operations must follow the guidelines provided in this documentation.

Preface

Introduction

This product is an important part of the elevator system, also known as shaft door. It refers to the door installed between the elevator shaft and the floor entrance and exit, used to seal off the space between the elevator shaft and the floor. The primary function of landing door is to ensure that there is no direct physical contact between the elevator and the floor during operation, thereby safeguarding the safety of passengers and equipment.

Revision History

Date	Version	Change description
September 2025	A00	First release.

Access to the Guide

This guide is not delivered with the product. You can obtain the PDF version in the following ways:

- Visit *www.inovance.com*, click Documentation Download under Service and enter a keyword to search.
- Scan the QR code on the product with your smartphone.
- Scan the QR code below to install the application My Inovance, where you can search for and download the guide.

Warranty Disclaimer

Inovance provides warranty service within the warranty period (as specified in your order) for any fault or damage that is not caused by improper operation of the user. You will be charged for any repair work after the warranty period expires.

Within the warranty period, maintenance fee will be charged for the following damage:

- failure to operate the product in accordance with the user guide
- events beyond control, such as fire, flood and abnormal voltage
- function misuse
- out-of-range application

- other events of force majeure, including but not limited to lightning, earthquake and other extreme weather events

The maintenance fee is charged according to the latest Price List of Inovance. If otherwise agreed upon, the terms and conditions in the agreement shall prevail.

For details, see the Product Warranty Card.

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1 General Safety Rules

1.1 Safety Instructions

Safety Disclaimer

- This chapter provides essential safety instructions for proper use of the equipment. Before operating the equipment, read through the guide and comprehend all the safety instructions. Failure to observe the safety instructions may result in death, personal injuries, or equipment damage.
- "DANGER", "WARNING", and "CAUTION" items in the user guide do not indicate all safety precautions that need to be followed; instead, they just supplement the safety precautions.
- Use this product according to designated environment requirements. Damage caused by improper use is not covered by warranty.
- Inovance shall take no responsibility for any personal injuries or property damage caused by improper usage.

Safety Levels and Definitions



Indicates that failure to comply with the notice will result in death or severe personal injuries.



Indicates that failure to comply with the notice may result in death or severe personal injuries.



Indicates that failure to comply with the notice may result in minor or moderate personal injuries or equipment damage.

Safety Instructions

- Product illustrations in the user guide are sometimes shown without covers or protective guards. Remember to install the covers or protective guards as specified first, and then perform operations in accordance with the instructions.
- Product illustrations in this guide are for reference only. Actual products may vary.
- Personnel must take mechanical precautions to protect personal safety. Wear necessary protective safety gear, such as anti-smashing shoes, clothing, glasses, gloves, and sleeves.

Unpacking



- Do not proceed with installation if you find damage, rust, or indications of use on the product or accessories.
- Do not proceed with installation if you find water seepage, component missing or damage upon unpacking.
- Do not install the equipment if you find the packing list does not conform to the equipment you received.



- Check whether the packing is intact and whether there is damage, water seepage, dampness, and deformation before unpacking.
- Unpack by following the correct sequence. Do not hit with force.
- Check whether there is damage, rust, or injuries on the surface of the equipment or equipment accessories.
- Check the materials and ensure all items are included.

Storage and Transportation



- Large-scale or heavy equipment must be handled by qualified professionals using specialized hoisting equipment. Failure to comply may result in personal injury or equipment damage.
- Before hoisting the equipment, ensure that components such as the front cover and terminal blocks are secured firmly with screws. Loosely-connected components may fall off and result in personal injuries or equipment damage.
- Do not stand or stay below the equipment when it is being hoisted.
- When hoisting the equipment with a steel rope, ensure the equipment is hoisted at a constant speed without suffering from vibration or shock. Do not turn the equipment over or let the equipment stay hanging in the air. Failure to comply may result in personal injuries or equipment damage.



- Handle the equipment with care during transportation and mind your step to prevent personal injuries or equipment damage.
- When carrying this equipment with bare hands, hold the equipment casing firmly with care to prevent parts falling. Failure to comply may result in personal injuries.
- Store and transport this product in strict accordance with the storage and transportation requirements. Failure to comply may result in damage to the product.
- Store and transport the product in environments free from water splashes, rain exposure, direct sunlight, strong electric and magnetic fields, and excessive vibration.
- Store the product for no more than 3 months. For longer storage periods, implement stricter protective measures and conduct necessary inspections.
- Before transportation, ensure the product is packed securely. For long-distance shipping, use airtight packaging.
- Always transport the product separately from any items or substances that could potentially damage or negatively affect its performance.

Installation
 • Installation personnel must receive prior training from recognized entities to be qualified. All elevator part installation personnel must strictly abide by relevant safety regulations. Strict compliance with this installation manual will provide maximum guarantee for equipment performance and user safety.
 • Read through the guide and safety precautions before installation. • Do not install the equipment in places with strong electric or magnetic fields. • Before installation, check that the mechanical strength of the installation site can bear the weight of the equipment. Failure to comply can result in mechanical hazards. • Do not wear loose clothes or accessories during installation. Failure to comply may result in electric shock. • When installing the equipment in a closed environment (such as a cabinet or casing), use a cooling device (such as a fan or air conditioner) to cool the environment down to the required temperature. Failure to comply may result in equipment over-temperature or a fire. • Do not modify this product. • Do not rotate the equipment components or loosen fixed bolts (especially those marked in red) on equipment components. • When this equipment is installed in a cabinet or final equipment, protection measures such as a fireproof enclosure, electrical enclosure, or mechanical enclosure must be provided. The IP rating must meet IEC standards and local laws and regulations. • Before installing equipment with strong electromagnetic interference, such as a transformer, install an electromagnetic shielding device for the product to prevent malfunctions. • Install the product on an incombustible object such as metal and do not touch or attach the product to combustibles. Failure to comply can result in fire accident.
 • Cover the top of the equipment with a piece of cloth or paper during installation. This is to prevent unwanted objects such as metal chippings, oil, and water from falling into the equipment and causing faults. After installation, remove the cloth or paper to prevent over-temperature caused by poor ventilation due to blocked ventilation holes. • Resonance may occur when the equipment operating at a constant speed switches to variable speed operations. In this case, install the vibration-proof rubber under the motor frame or use the vibration suppression function to reduce resonance.

Power-On
 • Before powering on, check that the equipment is installed properly with secure wiring and the motor can be restarted. • Check that the power supply meets equipment requirements before powering on to prevent equipment damage or fire. • When the equipment is powered on, do not open the cabinet door or protective cover, touch any wiring terminal, or disassemble any component of the equipment. Failure to comply can result in electric shock.
 • Perform a trial run after wiring and parameter setting to ensure that the equipment operates safely. Failure to comply may result in personal injuries or equipment damage. • Before power-on, check that the rated voltage of the equipment is consistent with that of the power supply. Failure to comply may result in a fire. If the power supply voltage is used incorrectly, it will result in a fire. • Before power-on, check that no one is near the equipment, motor, or other mechanical parts. Failure to comply may result in personal injuries or even death.

Operation
 • The equipment must be operated only by professionals. Failure to comply can result in death or personal injuries. • During operation, do not touch any connecting terminals or disassemble any component of the equipment. Failure to comply can result in electric shock.
 • Do not touch the equipment enclosure, fan, or resistor with bare hands. Failure to comply may result in burns. • During operation, prevent metal or other objects from falling into the equipment. Failure to comply may result in fire or equipment damage.

Maintenance
 • Equipment installation, wiring, maintenance, inspection, or component replacement must be performed only by professionals. • Do not maintain the equipment with power ON. Failure to comply can result in electric shock. • Before maintenance, disconnect all the power supplies of the equipment and wait for at least the time designated on the equipment warning label. • When a PM motor rotates, its terminals will produce induced voltage even if the motor is powered off. Failure to comply can result in electric shock.
 • Perform routine and regular inspection and maintenance on the equipment in accordance with maintenance requirements and keep a record.

Repair
DANGER • Equipment installation, wiring, maintenance, inspection, or component replacement must be performed only by professionals. • Do not perform maintenance on the equipment with power on. Failure to comply can result in electric shock. • Before inspection and repair, cut off all equipment power supplies and wait as specified on the product warning sign.
WARNING • Require for repair services according to the product warranty agreement. • When the fuse is blown or the circuit breaker or earth leakage circuit breaker (ELCB) trips, adhere strictly to the waiting period indicated on the product warning label before restoring power or conducting any subsequent actions. Failure to comply may result in personal injuries, equipment damage or even death. • When the equipment is faulty or damaged, require professionals to perform troubleshooting and repair by following repair instructions and keep a repair record. • Replace quick-wear parts of the equipment according to the replacement guide. • Do not operate damaged equipment. Failure to comply may result in worse damage. • After the equipment is replaced, perform wiring inspection and parameter settings again.

Disposal
WARNING • Dispose of retired equipment in accordance with local regulations and standards. Failure to comply may result in death, personal injuries, or property damage. • Recycle retired equipment in accordance with industry waste disposal standards to avoid environmental pollution.

Safety Signs

To ensure safe operations, comply with safety signs on the device, and do not damage or remove the safety labels. The following table describes the safety signs.

Safety Signs	Description
	Electric shock risk!

1.2 Industrial Information Security

The product provides interfaces to connect to the network and transmit data through the network interfaces. In order to protect factories, systems, machines and networks from network attacks and ensure their safe operation, implement appropriate industrial information security protection mechanisms.

The customer is responsible for providing and continuously ensuring a secure connection between the product and the network to prevent unauthorized access to its factories, systems, machines and networks. The system can only be connected to the corporate network or the Internet if it is

connected securely and appropriate security measures are in place (for example, using anti-virus software and a firewall).

Inovance continuously develops and improves products and solutions to improve safety. It is strongly recommended that you update the product promptly and always use the latest version.



Tampering with software (such as viruses, Trojans, and Worms) can lead to unsafe drive state, which can put the device in an unsafe operation state. This may result in death, serious injury, and property damage. Observe the following strictly.

- Always use the latest software version. If the product version is no longer supported or the latest version of the program is not applied, customers are at increased risk of cyber-attacks.
- Take proper protection measures (including but not limited to deploying anti-virus software, firewall, WAF, IPS/IDS, situational awareness system, ID verification, and data encryption) to prevent files in the mobile storage device from being damaged by malware and protect products, networks, systems, and interfaces from unauthorized access, disturbance, intrusion, data disclosure, or information theft.
- Check all safety-related interfaces and settings after commissioning.

2 Components

The landing door comes with the center-opening (C2) and side-opening (T2) types.

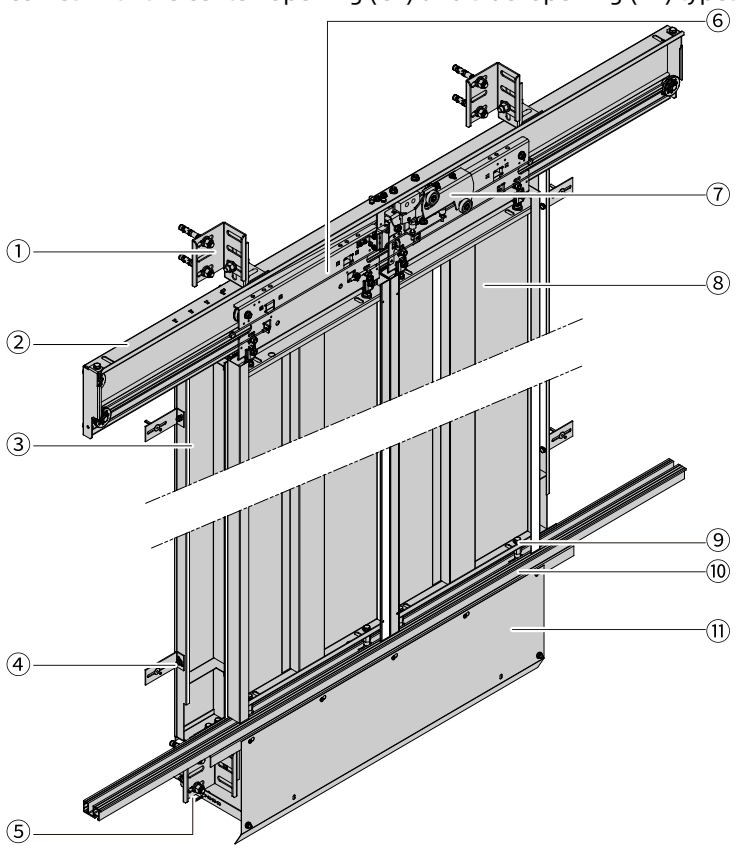


Figure 2-1 Component description (C2)

No.	Component	No.	Component
①	Landing door combination bracket	⑦	Landing door lock
②	Door header assembly	⑧	Door plate assembly
③	Column	⑨	Door slider
④	Column bracket	⑩	Sill assembly
⑤	Sill bracket	□	Toe guard
⑥	Door hanger plate	-	-

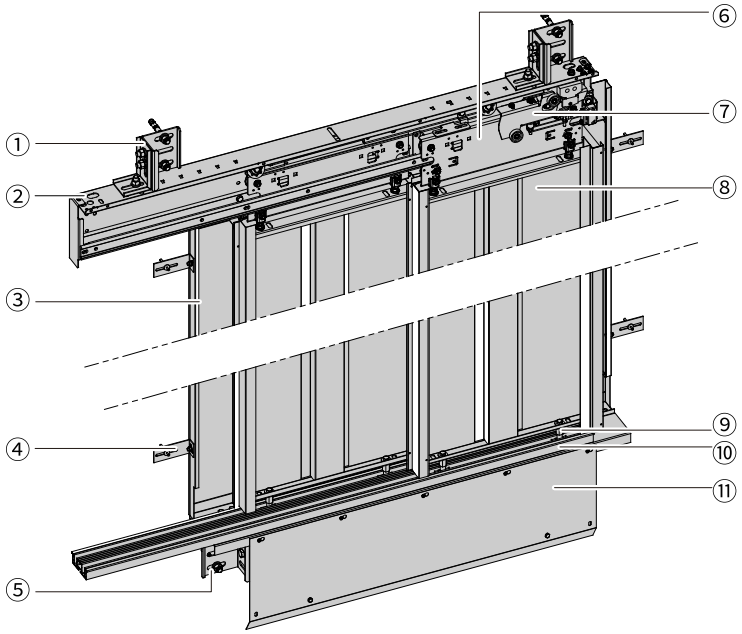


Figure 2-2 Component description (T2)

No.	Component	No.	Component
①	Landing door combination bracket	⑦	Landing door lock
②	Door header assembly	⑧	Door plate assembly
③	Column	⑨	Door slider
④	Column bracket	⑩	Sill assembly
⑤	Sill bracket	□	Toe guard
⑥	Door hanger plate	-	-

3 Installation Tools

Table 3–1 Installation tools

Tool	Image	Specifications
Tape measure		-
Open-end wrench		• 8 mm • 10 mm • 13 mm • 15 mm • 16 mm • 17 mm • 18 mm
Socket wrench		-
Phillips screwdriver		3 mm (PH0)
Hammer		-
Plumb bob		-
Ruler		-
Spirit level		-

See the following table for the metric outer hex bolt and wrench size correspondence.

Table 3–2 Bolts and wrenches size

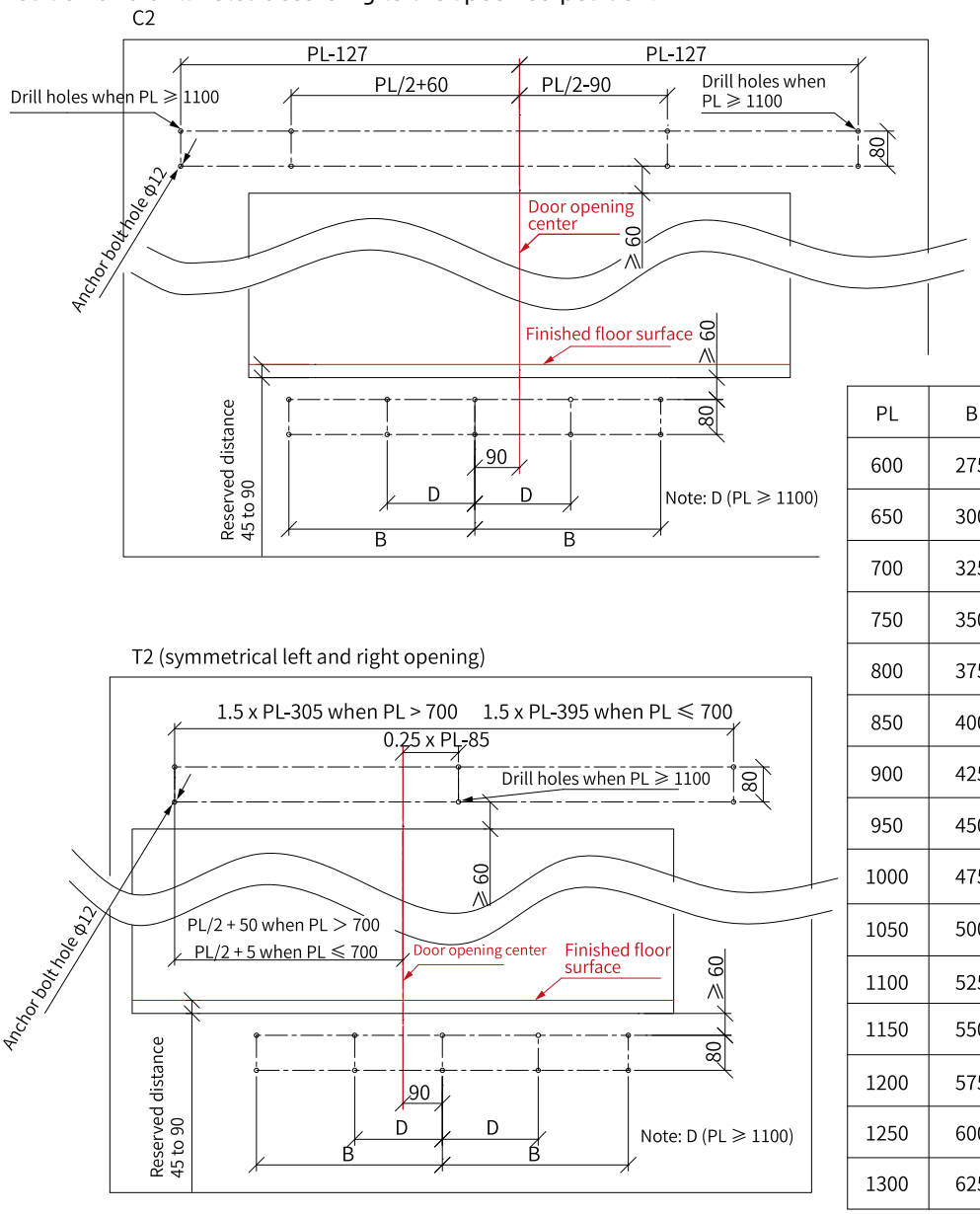
No.	Outer hex bolt	Open-end wrench or sleeve
1	M3	5.5 mm
2	M4	7 mm
3	M5	8 mm
4	M6	10 mm
5	M8	13 mm
6	M10	16 mm
7	M12	18 mm
8	M14	21 mm
9	M16	24 mm
10	M18	27 mm
11	M20	30 mm
12	M22	31 mm

4 Installation Guide

4.1 Installation Procedure

4.1.1 Positioning and Drilling

1. Position and drill holes according to the specified position.



PL	B	D
600	275	/
650	300	/
700	325	/
750	350	/
800	375	/
850	400	/
900	425	/
950	450	/
1000	475	/
1050	500	/
1100	525	220
1150	550	232.5
1200	575	245
1250	600	257.5
1300	625	270

Figure 4-1 Drilling (unit: mm)

2. Clean with the brush.

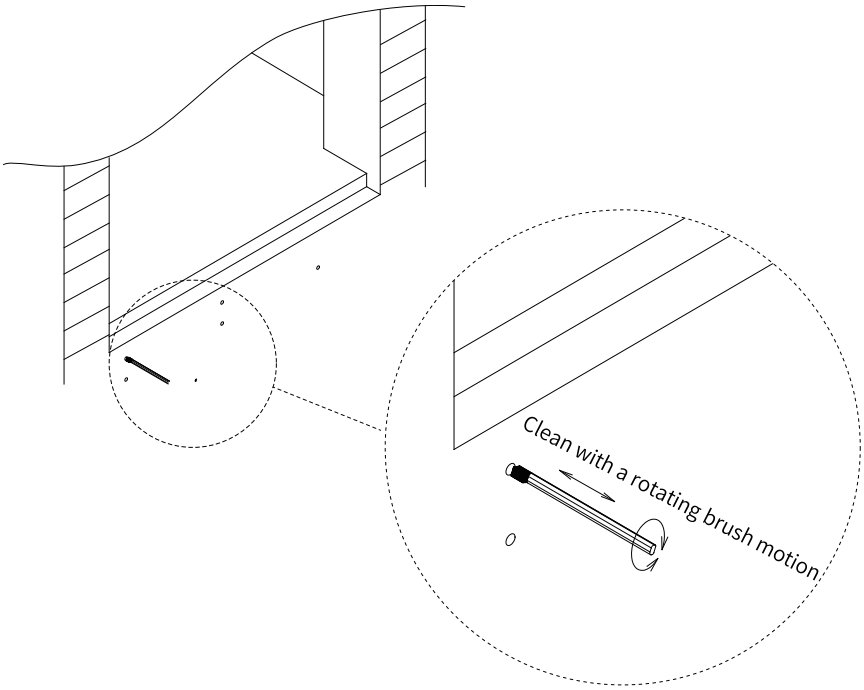
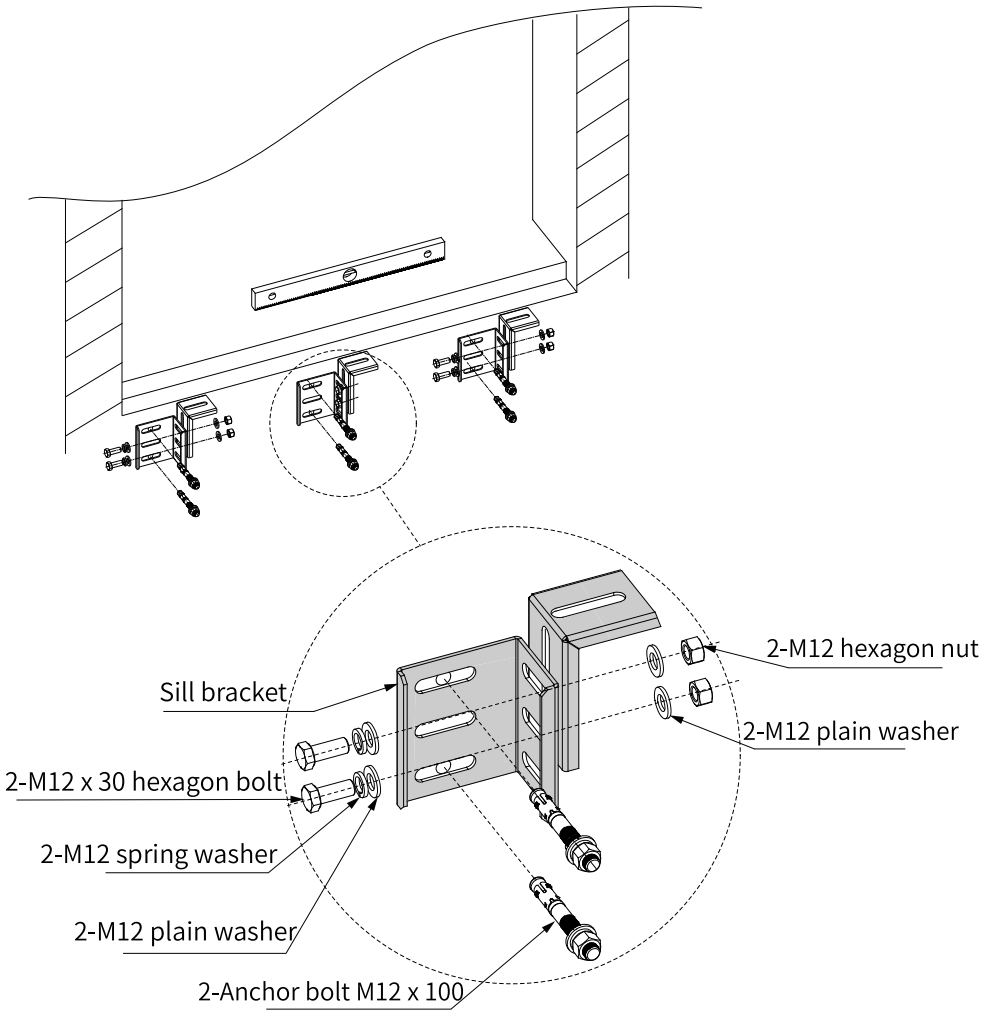


Figure 4-2 Cleaning with the brush

4.1.2 Installing the sill bracket



Tools: two 18 mm wrenches or socket wrenches

Figure 4-3 Installing the sill bracket

4.1.3 Installing the Sill

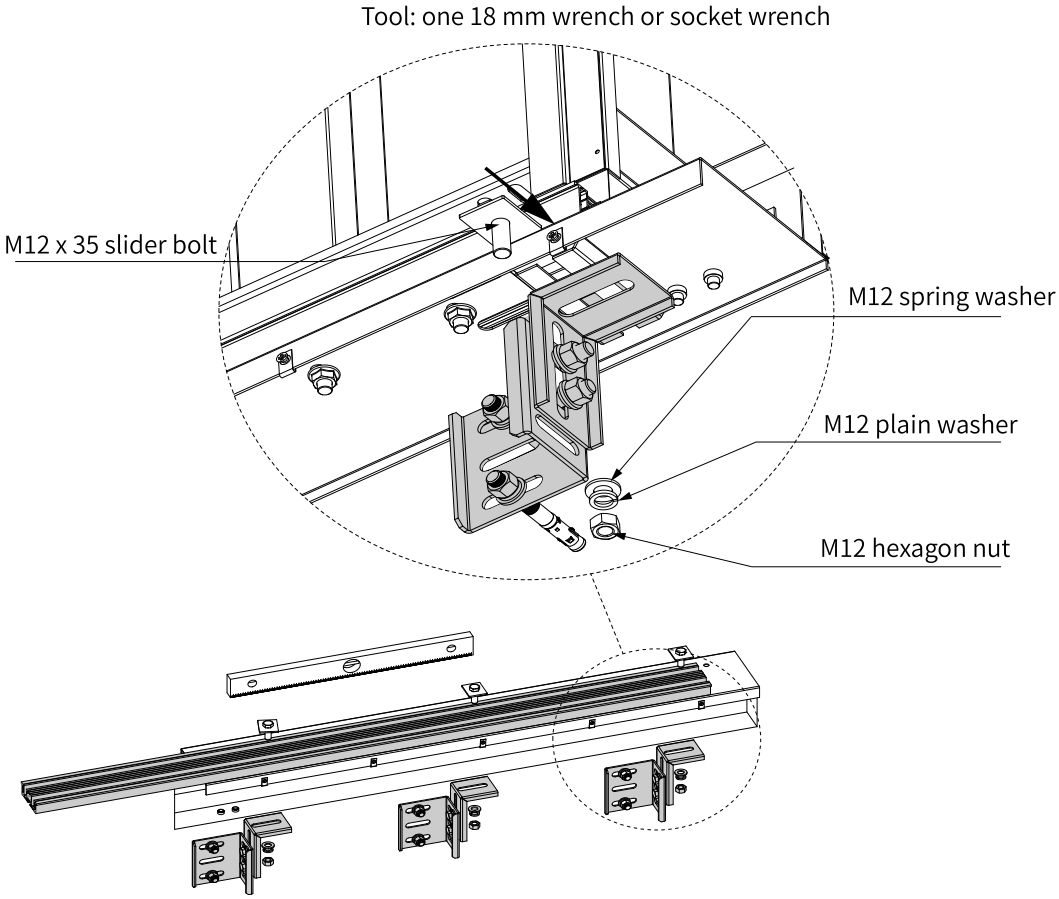


Figure 4-4 Installing the sill (Take the T2 type as an example)

After installation, measure with a spirit level (the requirement is 1/600).

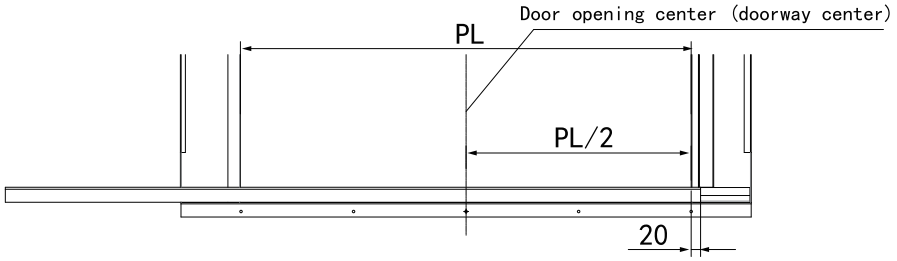


Figure 4-5 Sill center aligned with the entrance/exit center (Unit: mm)

4.1.4 Installing the Door Jamb

1. Pre-install the door jamb.

Tools: Impact drill (bit 5); two 10 mm wrenches or socket wrenches; one 13 mm wrench or socket wrench

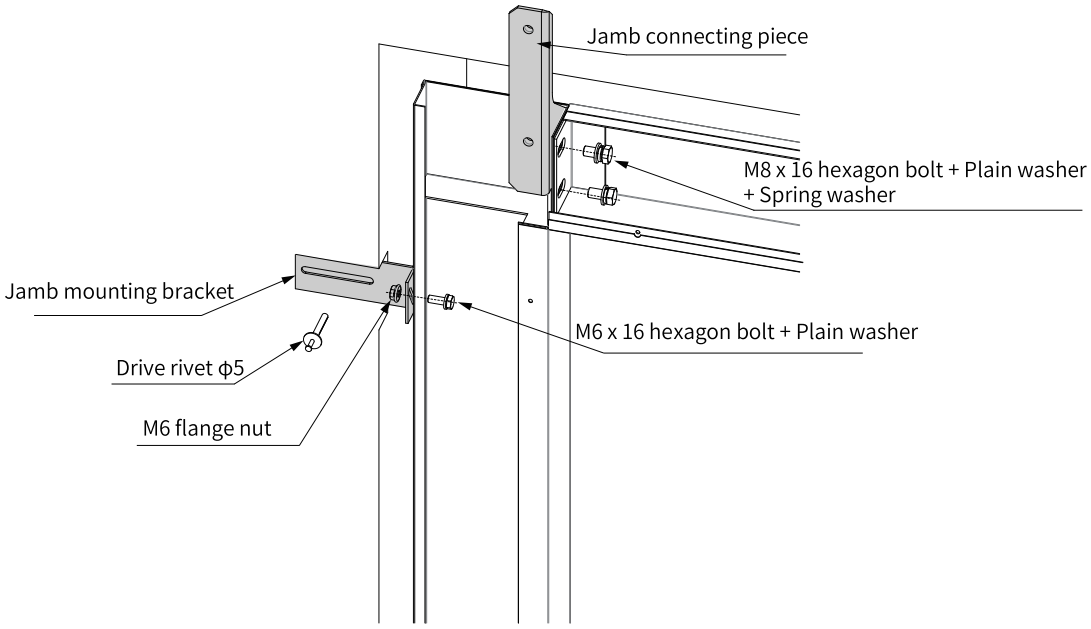


Figure 4-6 Pre-installing the door jamb

2. Pre-install the bottom jamb side bracket bolts and tighten them after vertical alignment.

Tool: one 13 mm socket wrench

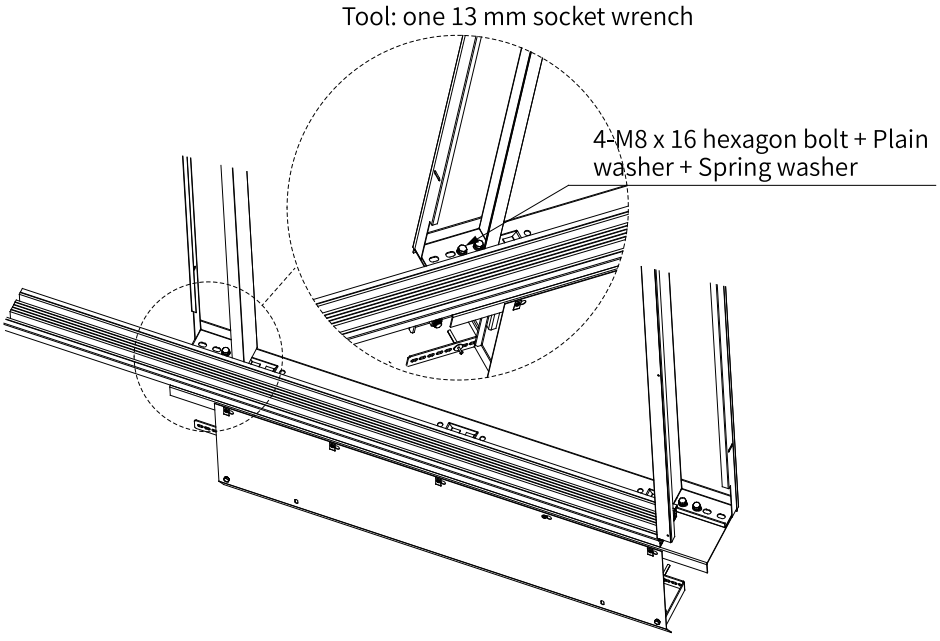


Figure 4-7 Jamb side bracket bolt (Take the T2 type as an example)

3. Use a plumb line to correct the alignment of the door jamb, ensuring that the door frame is perfectly vertical. Make sure that the distances from the top and bottom positions are equal, with a vertical deviation of less than 1 mm, and ensure $|A-B| \leq 1$.

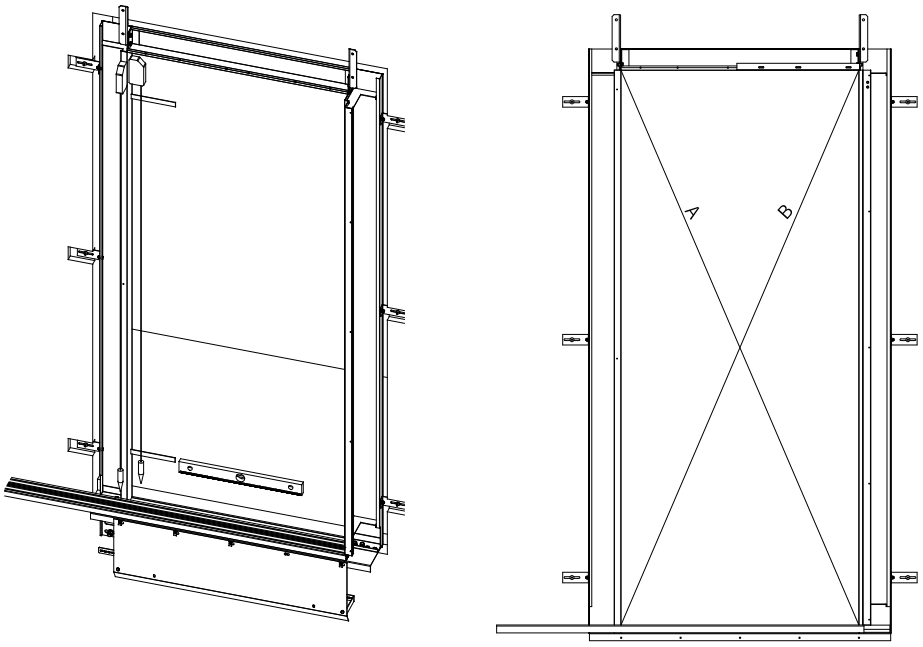


Figure 4-8 Adjusting the jamb (Take the T2 type as an example)

4. After completing the alignment, tighten the bolts to secure the door jamb in place.

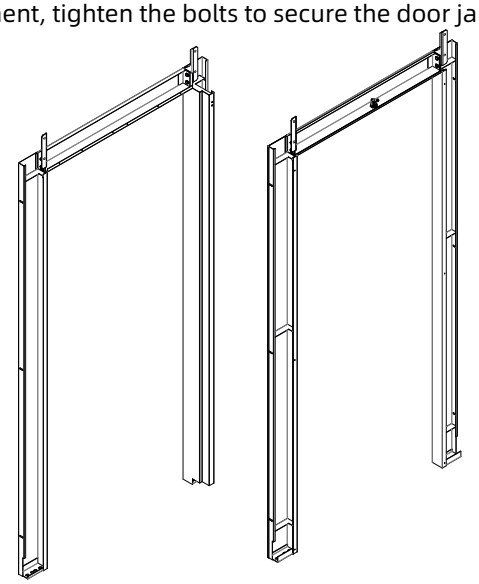
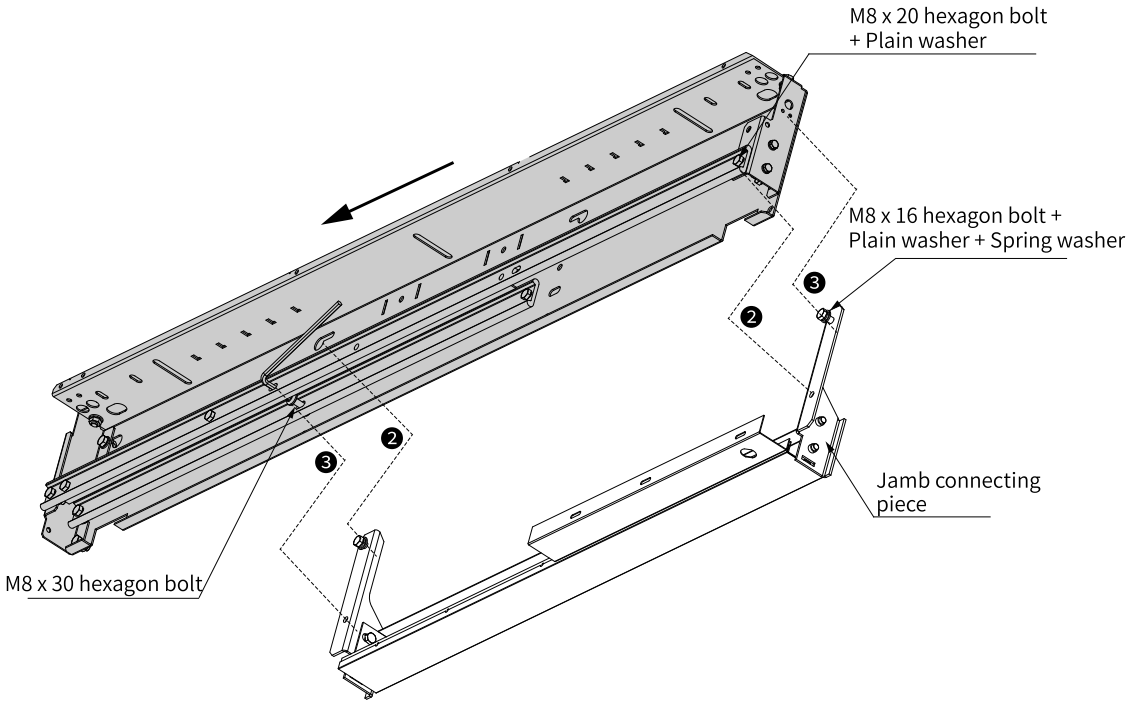


Figure 4-9 Fixing the door jamb

4.1.5 Installing the Door Header

Installing the door header (T2)

1. Remove the M8x30 hexagon bolt and M8x20 hexagon combination bolt on the landing door T2.
2. Pre-install the M8x16 combination bolt with a flat washer and spring washer on the connecting piece of the door jamb. Then, insert it through the keyhole hanger of the landing door assembly. Finally, slide the landing door assembly into position.
3. Tighten the bolts.



Tool: one 13 mm open-end wrench or socket wrench

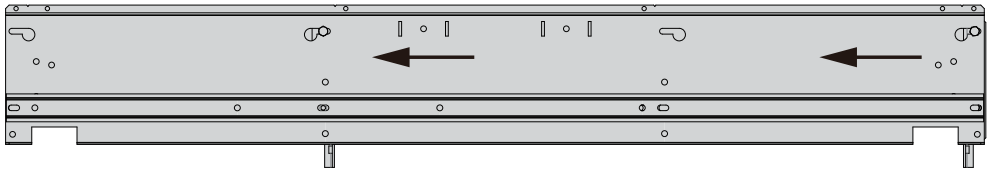


Figure 4-10 Installing the door header (T2)

4. Insert the release lever into the hole of the triangle lock assembly.
   The lintel lock plate of T2 can be installed after the door header assembly installation is completed. For details, see *"4.3.2 Installing the Lintel Lock Plate" on page 30*.

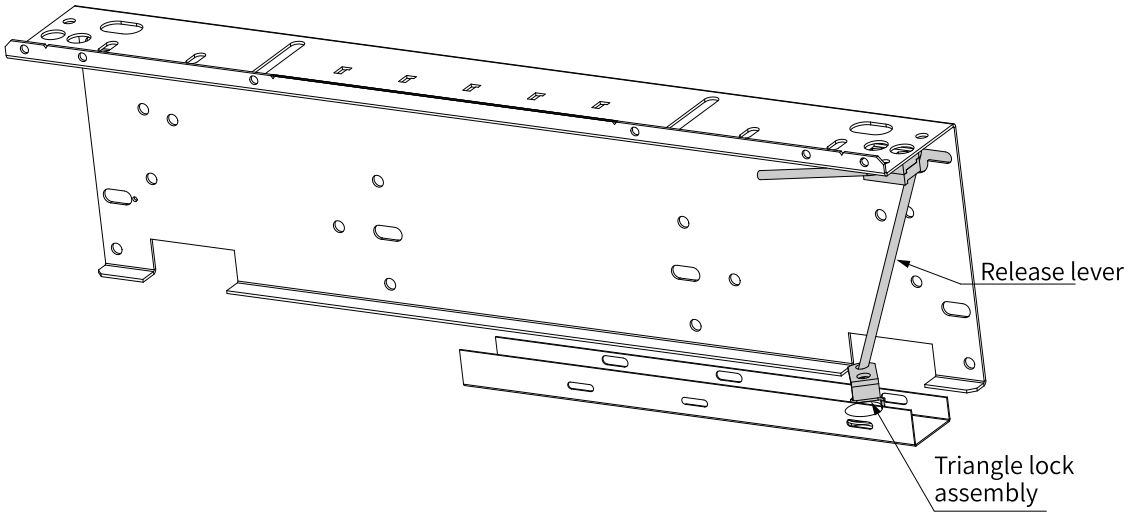


Figure 4-11 Inserting the release lever into the hole of the triangle lock assembly (T2)

5. Adjust the dimensional clearance.

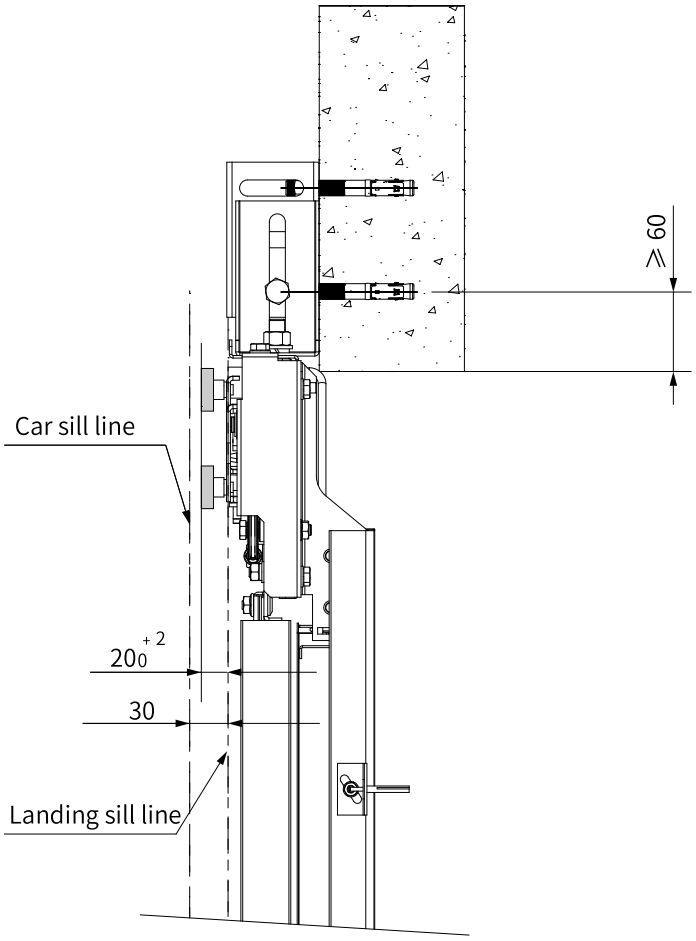
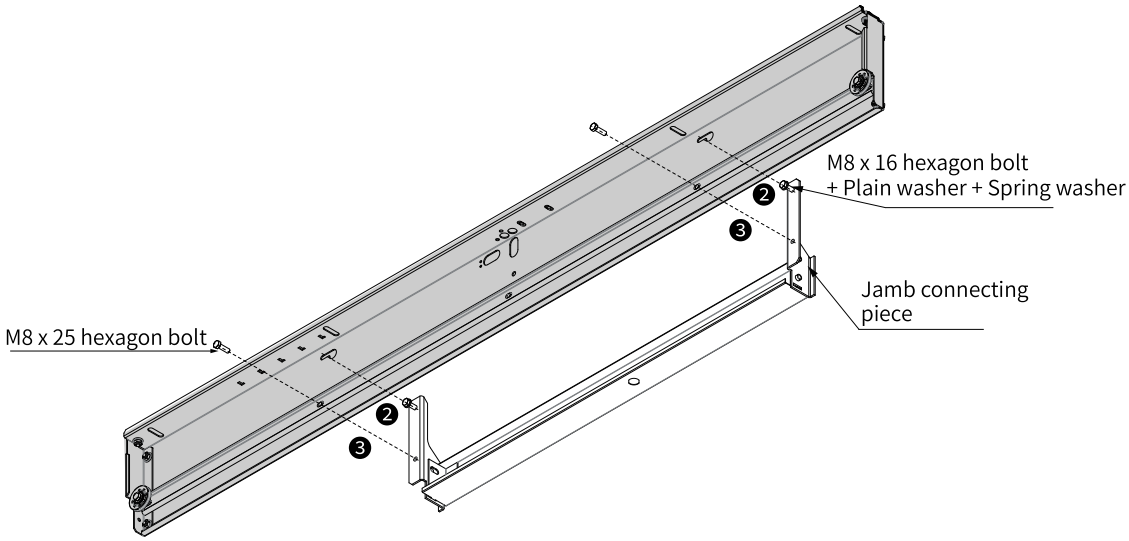


Figure 4-12 Adjusting the dimensional clearance (C2, unit: mm)

Installing the door header (C2)

1. Remove the M8x25 hexagon bolt on the landing door C2.
2. Pre-install the M8x16 combination bolt with a flat washer and spring washer on the connecting piece of the door jamb. Then, insert it through the keyhole hanger of the landing door assembly. Finally, slide the landing door assembly into position.
3. Tighten the bolts.



Tool: one 13 mm open-end wrench or socket wrench

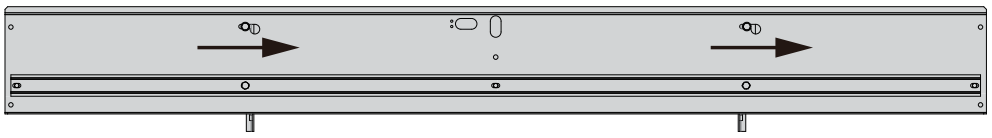


Figure 4-13 Installing the door header (C2)

4. Insert the release lever into the hole of the triangle lock assembly.

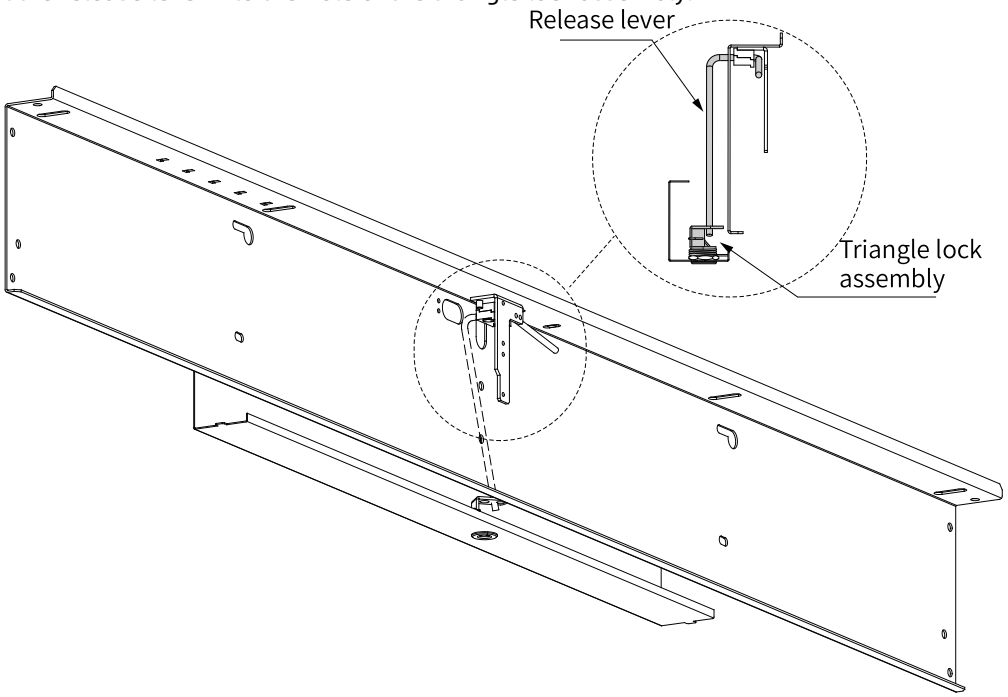


Figure 4-14 Inserting the release lever into the hole of the triangle lock assembly (C2)

5. Adjust the dimensional clearance.

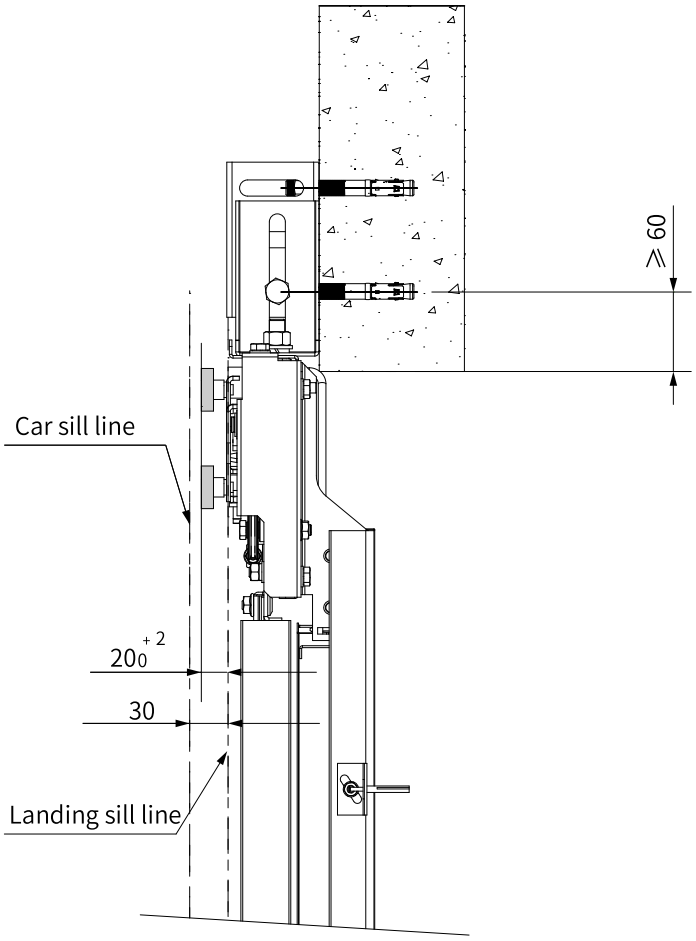


Figure 4-15 Adjusting the dimensional clearance (C2, unit: mm)

4.1.6 Fixing the door header bracket

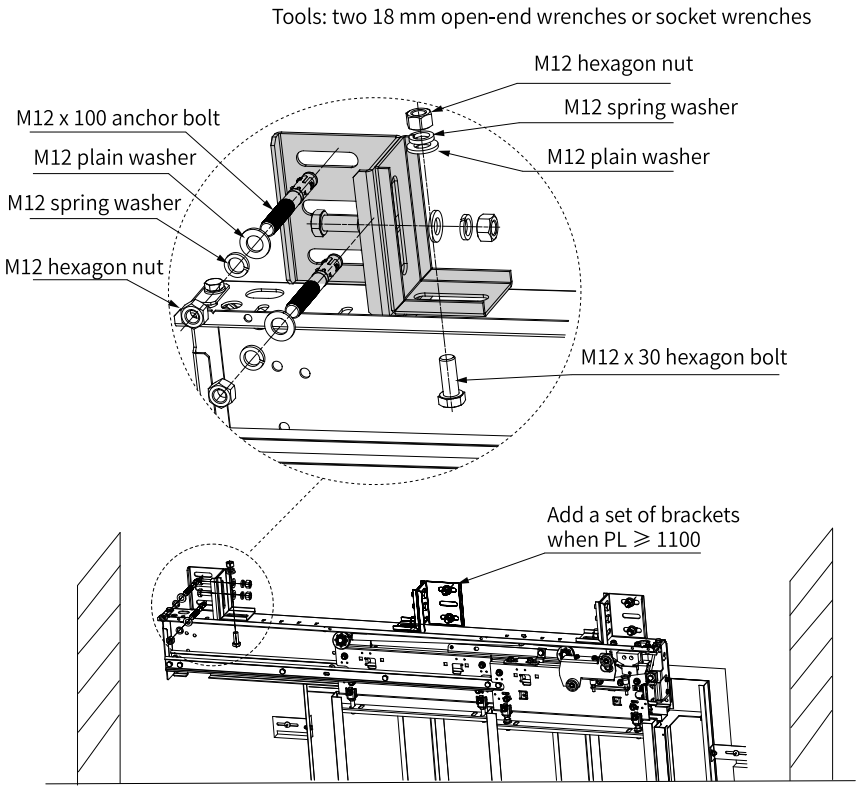


Figure 4-16 Fixing the door header bracket (T2)

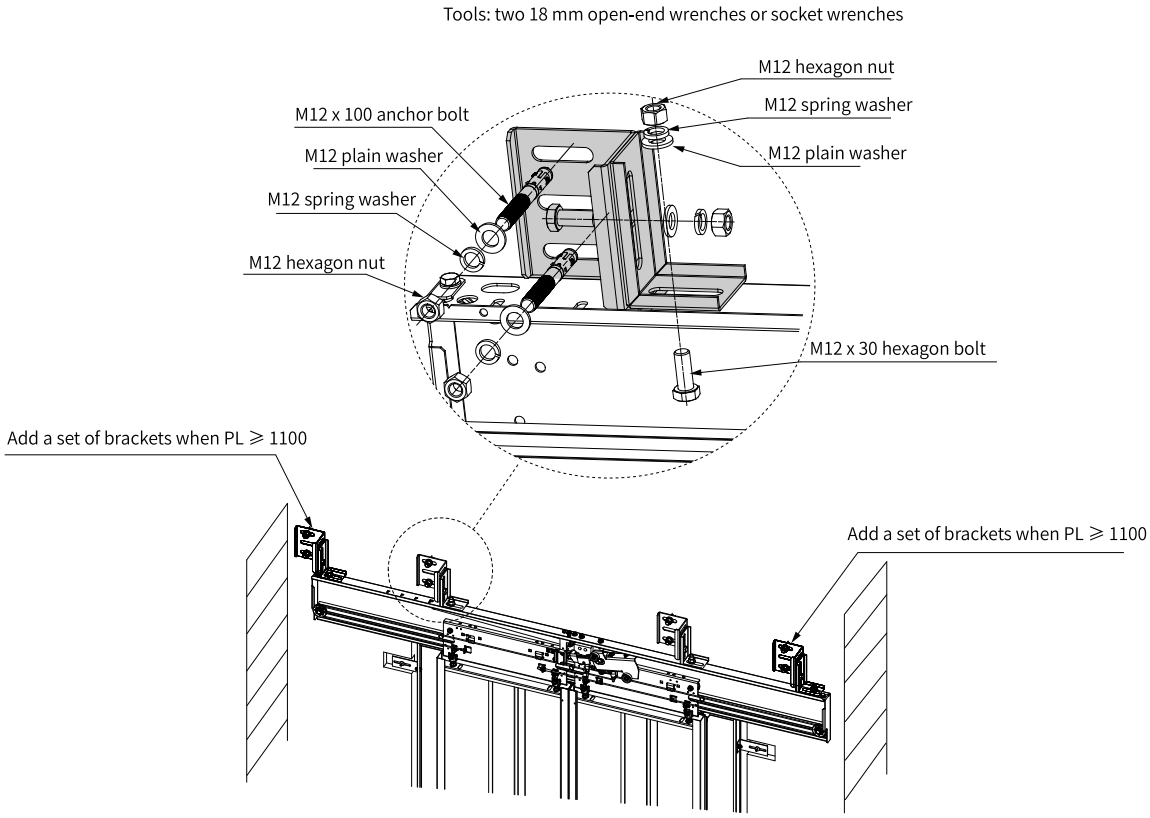


Figure 4-17 Fixing the door header bracket (C2)

4.1.7 Installing and Adjusting the Door Panel

1. Install the door panel.

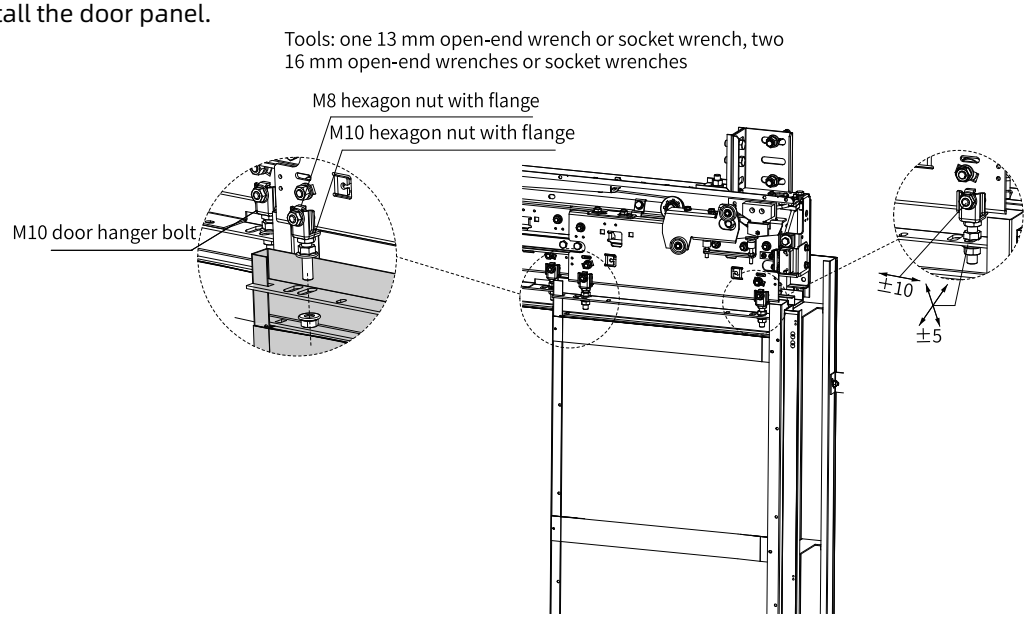


Figure 4-18 Installing the door panel (Unit: mm)

2. In adjusting the door plate, ensure that the door plate surface is parallel to the sill line and maintain a uniform gap between the door plate and the frame, which should be within the range of 5 mm±1 mm.

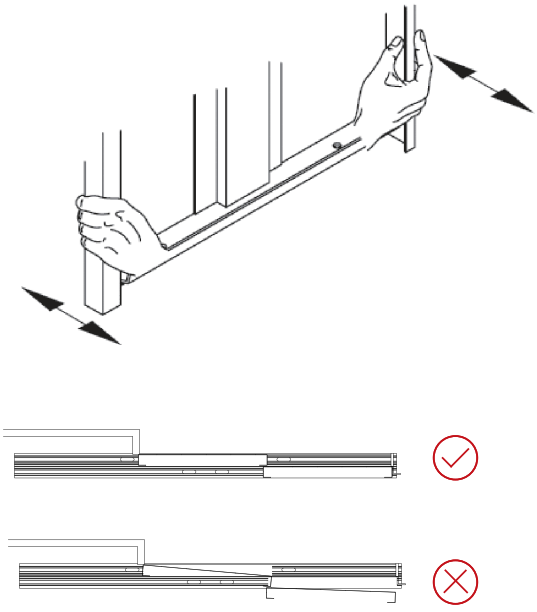


Figure 4-19 Adjusting the door panel

3. Install the slider.

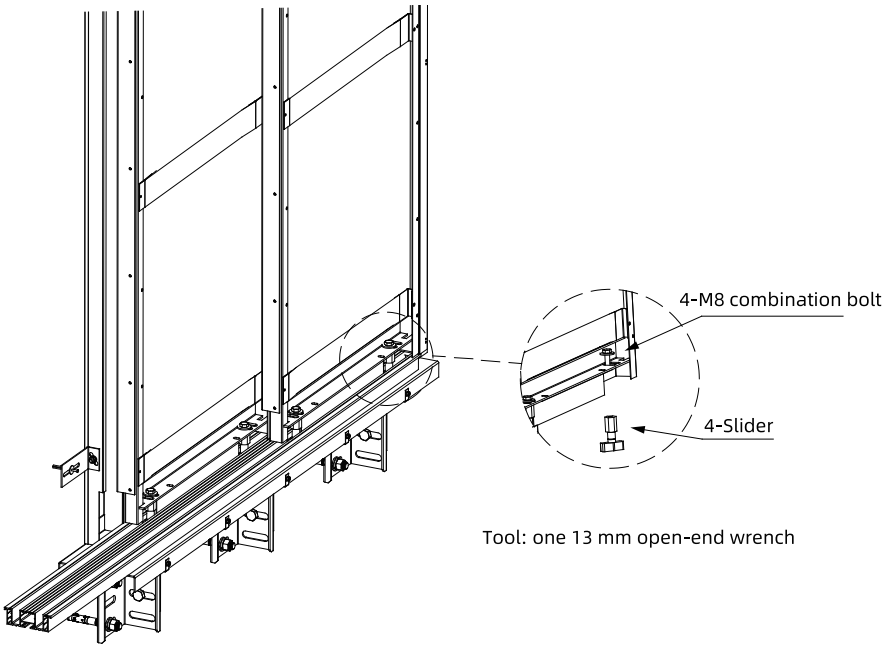


Figure 4-20 Installing the slider

4. Adjust the door panel gap.

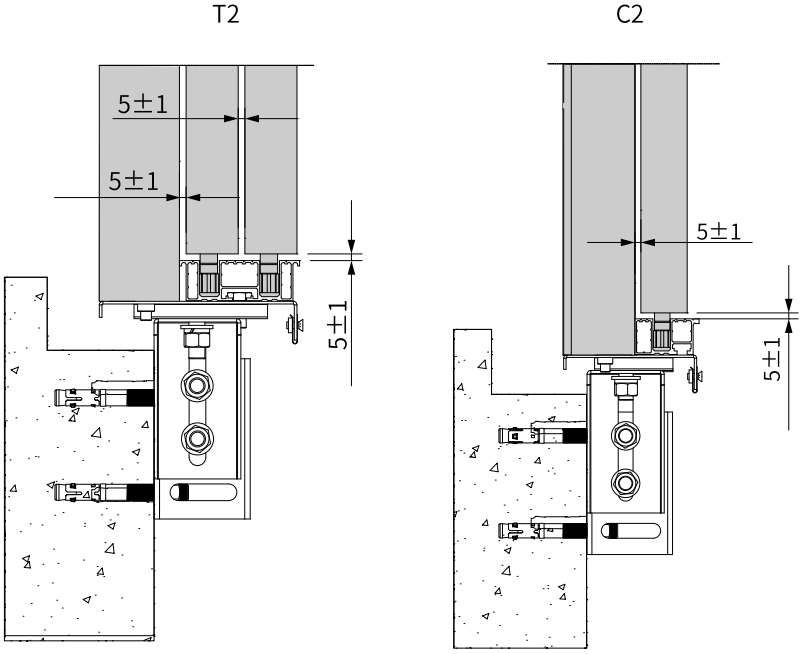


Figure 4-21 Adjusting the door panel gap (Unit: mm)

5. Install the fire-proof door panel.

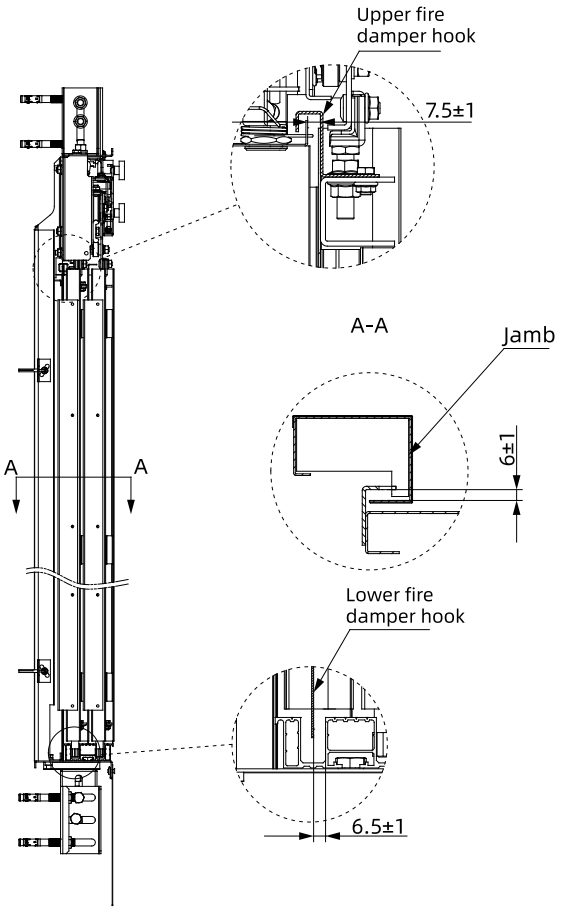


Figure 4-22 Adjusting the fire damper hook (T2)

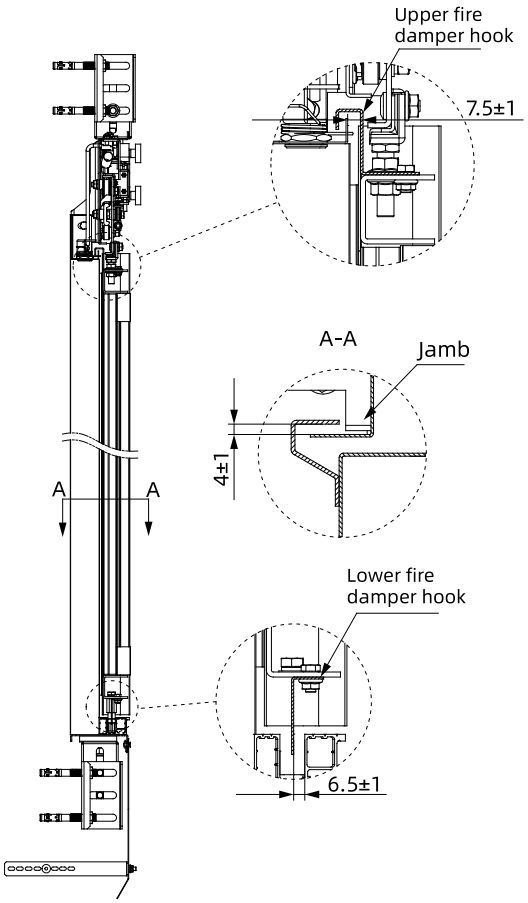


Figure 4-23 Adjusting the fire damper hook (C2)

4.2 Adjusting After Installation

4.2.1 Adjusting the Door Hanger Plate Verticality

Adjust the verticality of the door hanger plate to 0.5 mm (measure with a plumb line).

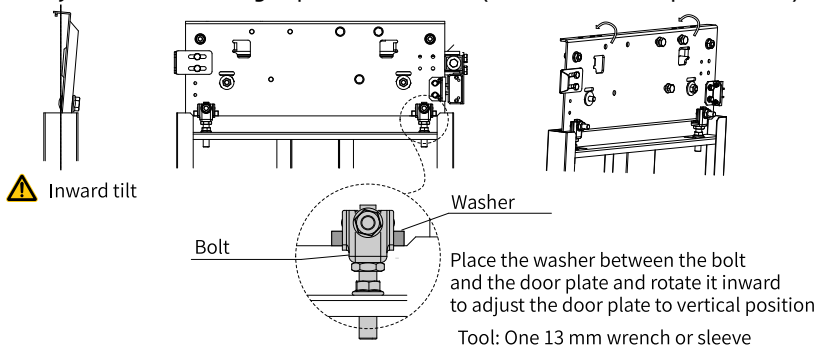


Figure 4-24 Door plate inward tilt

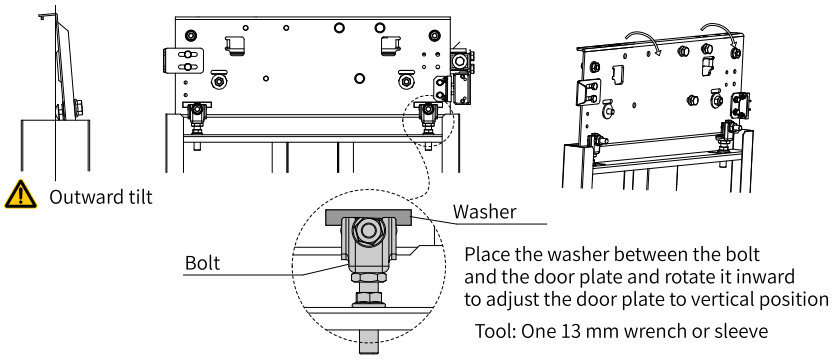


Figure 4-25 Door plate outward tilt

4.2.2 Adjusting the Door Panel Gap (Optional)

If the door panel gap is too small, it can cause the door close limit rubber to fail, resulting in door collisions. When securing the door panels, ensure that the left and right door panels or the quick door panel can make proper contact with the rubber. Adjust the height of the door hanger bolt to adjust the verticality of the door panels to 1/1000, and ensure the parallelism between the door and the jamb (only for the C2 type).

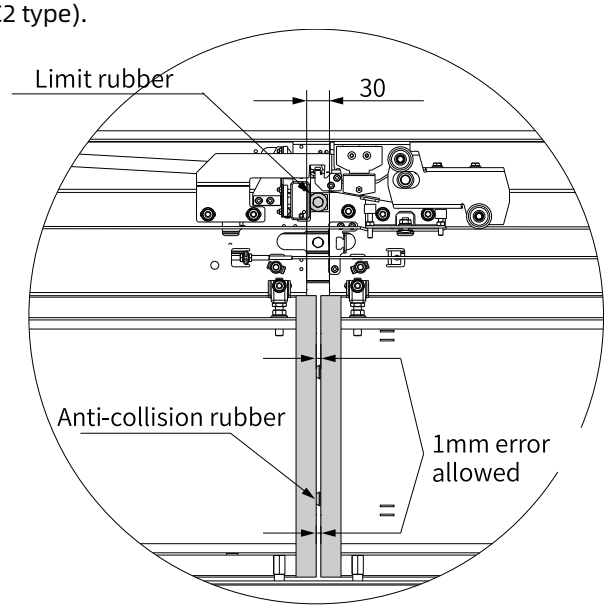


Figure 4-26 Allowable deviation (unit: mm)

4.2.3 Adjusting the Eccentric Wheel Distance

The distance between the eccentric wheel and the guide rail should be 0.1 mm to 0.5 mm, which can be measured using a feeler gauge. If this requirement is not met, you can loosen the bolt to make adjustments.

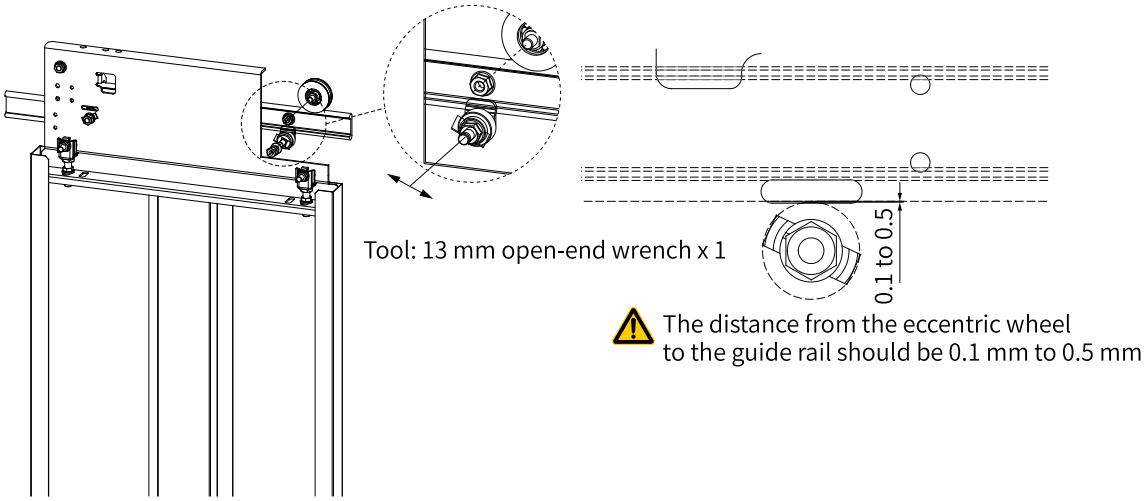
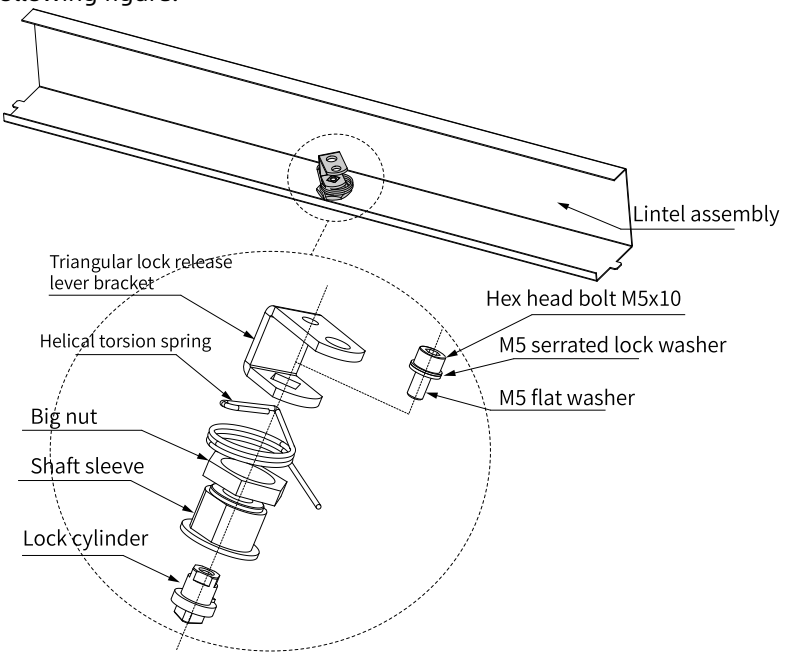


Figure 4-27 Adjusting the eccentric wheel distance

4.3 Installation of Accessories

4.3.1 Installing the Landing Door Triangle Lock (Optional)

The triangle lock is generally pre-installed at the factory. If it is not pre-installed or requires adjustment, see the following figure.



Tools：30mm open-end wrench or socket wrench (1); 4mm internal hexagonal wrench (1)

The triangular lock shaft sleeve and lock cylinder are secured to the load-bearing components (such as lintel lock plate and lintel)

Figure 4-28 Installing the triangle lock

4.3.2 Installing the Lintel Lock Plate

Install the lintel lock plate, adjusting the distance to be 5 mm away from the slow door plate. After installation, check the lock operation.

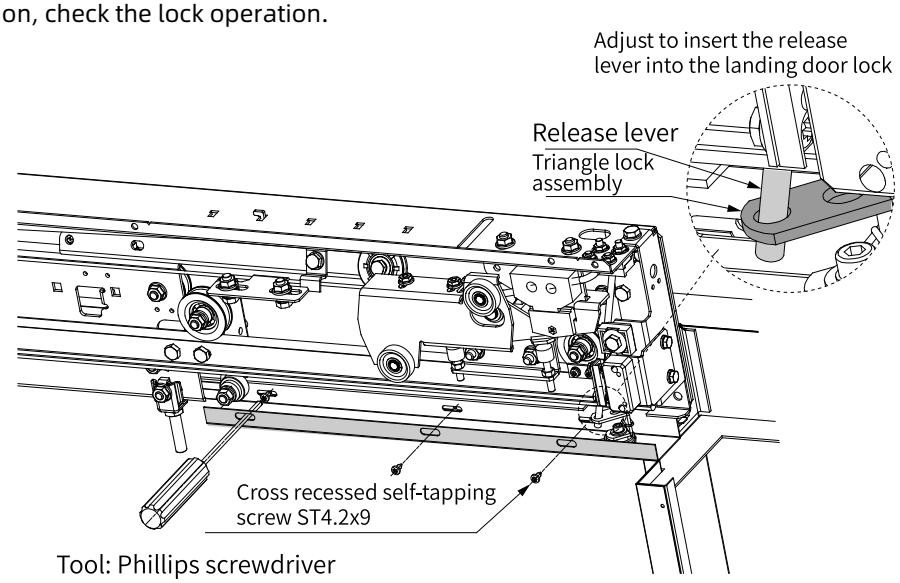


Figure 4-29 Installing the lintel lock plate

4.3.3 Installing and Adjusting the Spring (Optional)

The spring fixation hook is positioned appropriately before leaving the factory. In case of extreme conditions leading to insufficient closing force, the spring hook can be removed and adjusted to the nearest setting. For non-heavy-duty doors, do not adjust the spring; instead, investigate other potential obstructions.

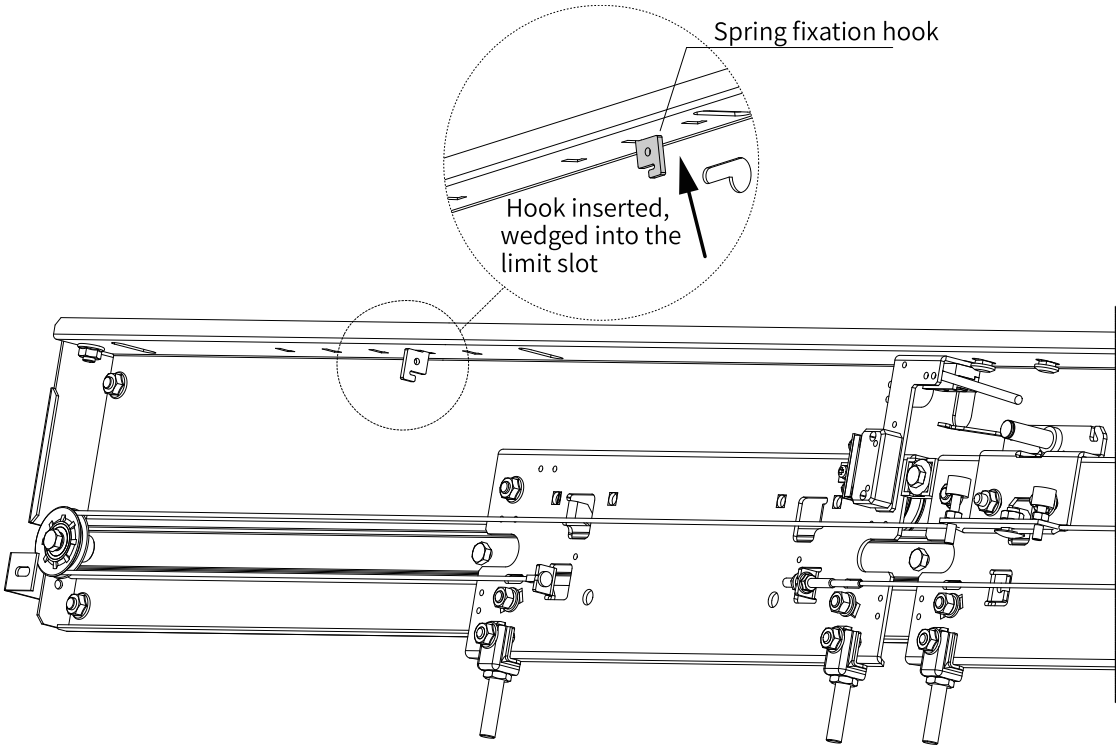


Figure 4-30 Adjusting the spring fixation hook

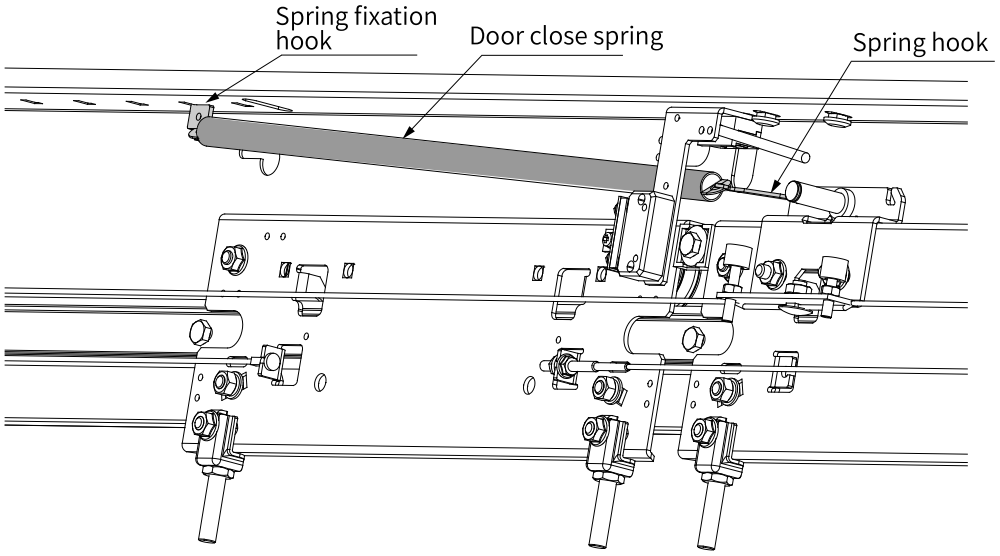


Figure 4-31 Adjusting the spring (C2)

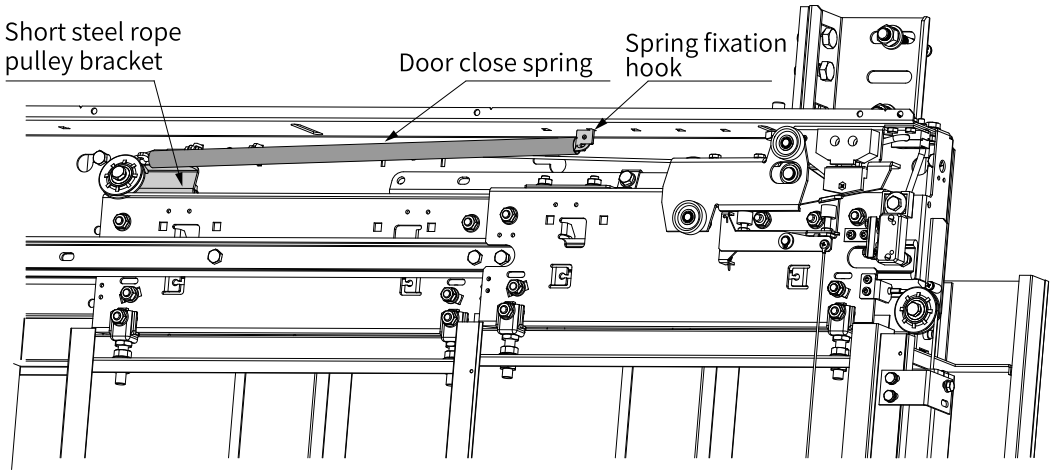


Figure 4-32 Adjusting the spring (T2)

4.3.4 Installing the Pit Unlocking Device

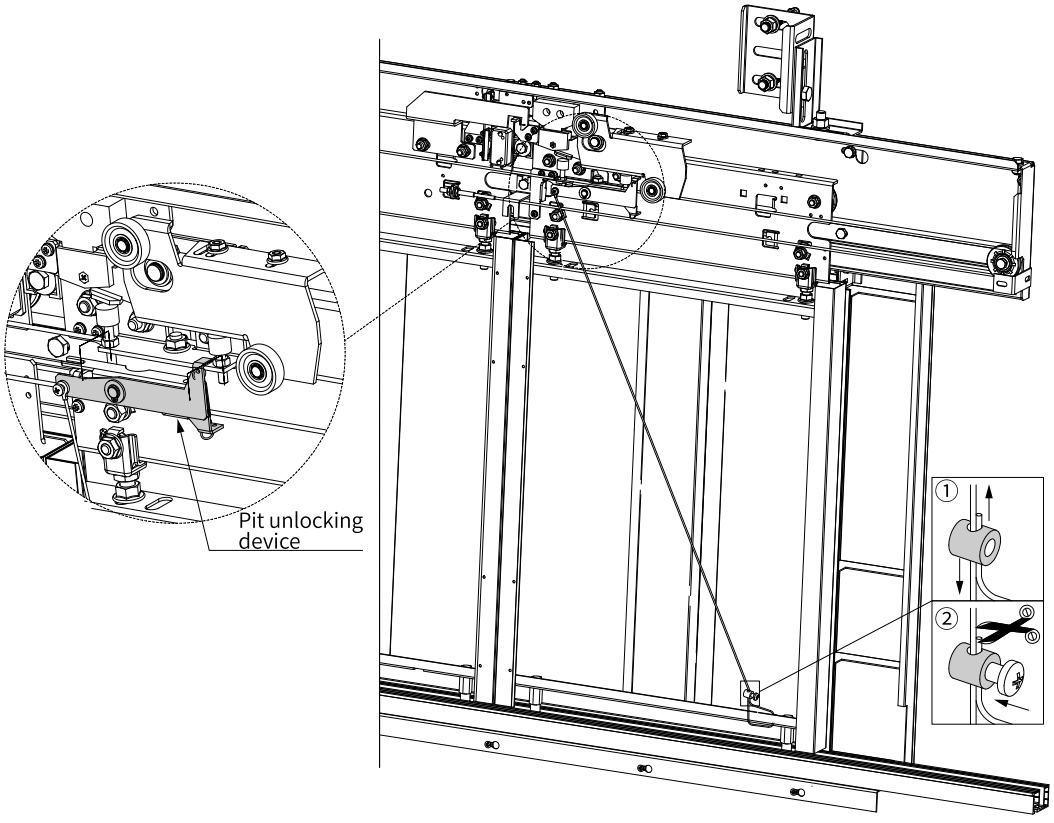


Figure 4-33 Installing the pit unlocking device (C2)

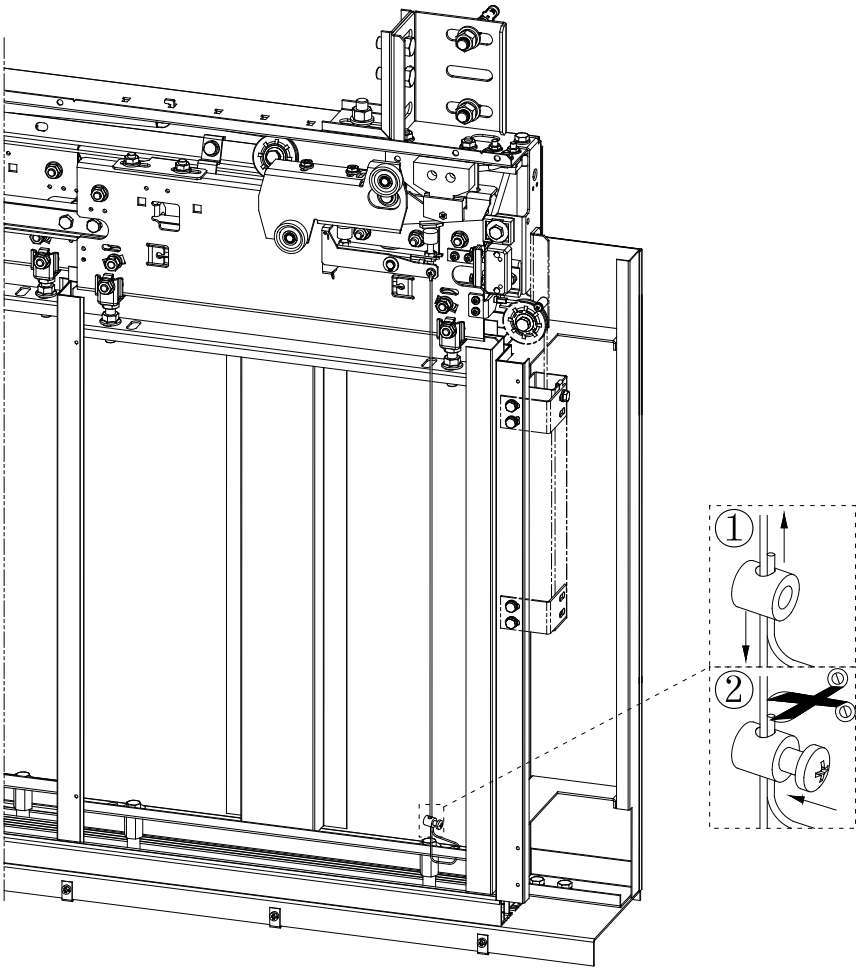
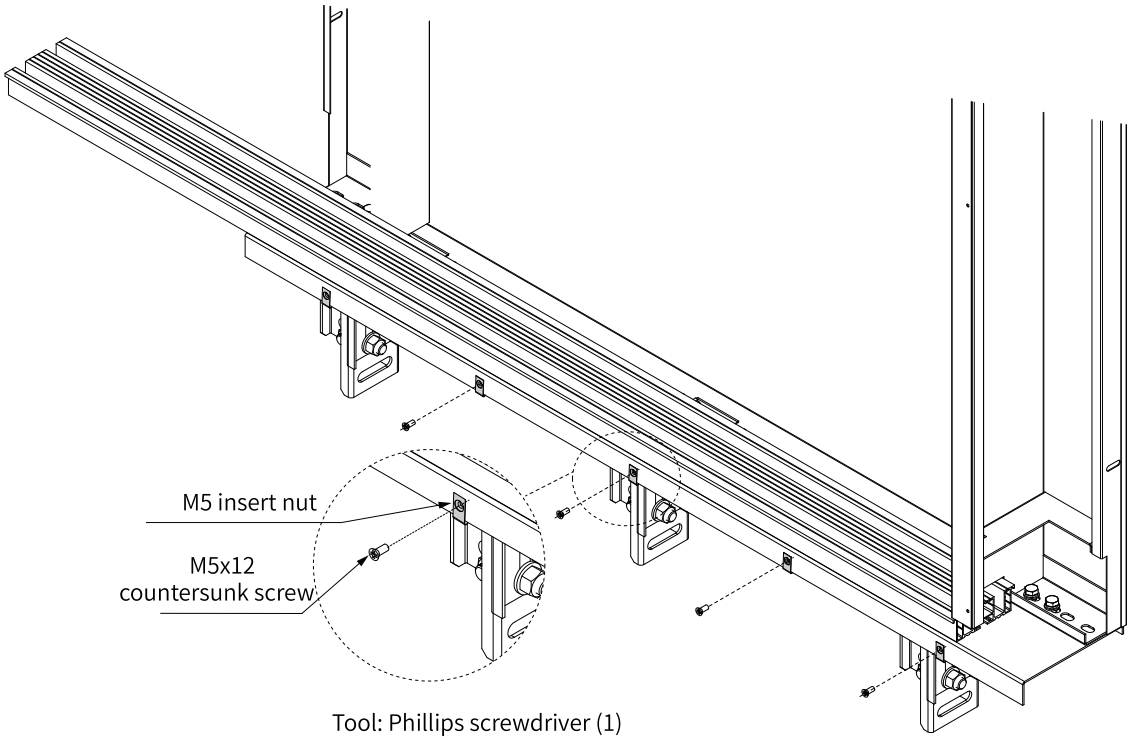


Figure 4-34 Installing the pit unlocking device (T2)

After securing the unlocking rope, ensure that the door vane can move freely and that the lock hook can reset to its default position properly.

4.3.5 Installing the Toe Guard

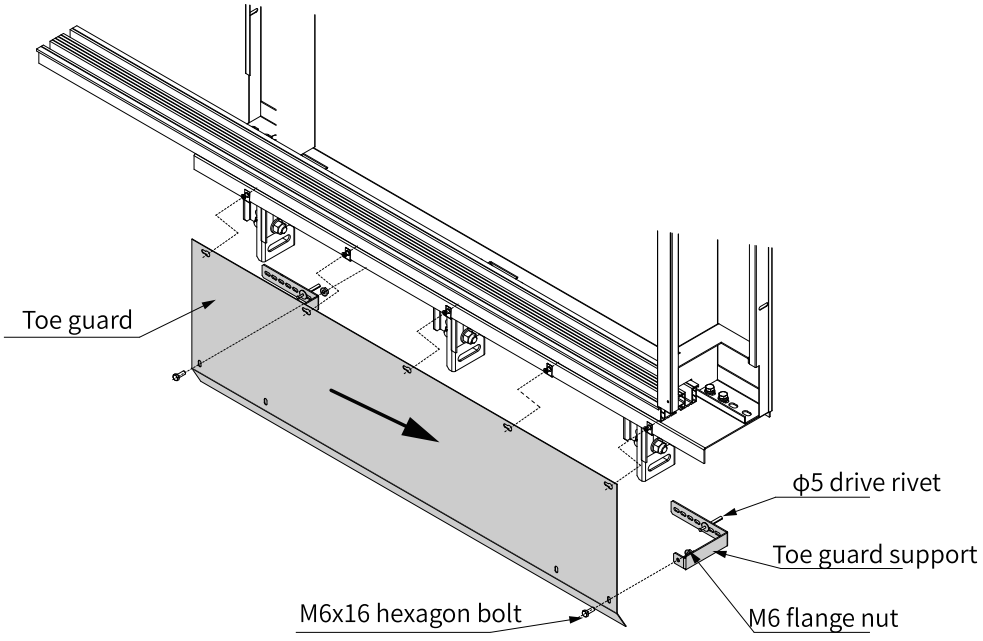
1. Install the insert nut.



Tool: Phillips screwdriver (1)

Figure 4-35 Installing the insert nut

2. Tighten the bolt.



Tool: Impact drill (bit 5); open-end wrench 10mm or socket wrench (1)

Figure 4-36 Installing the toe guard

5 Maintenance

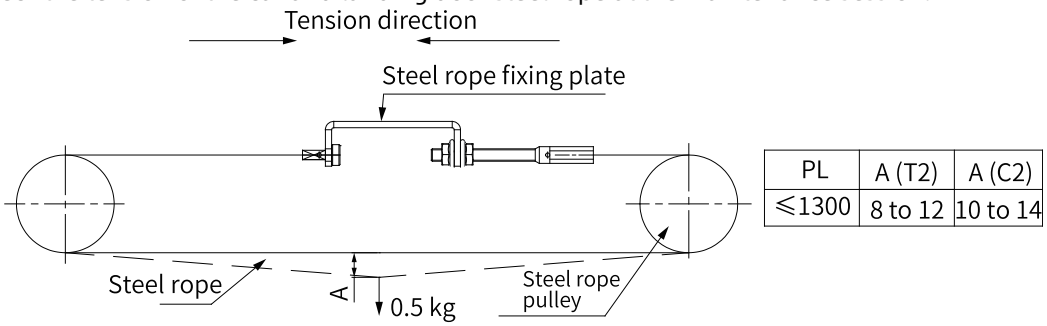
5.1 List of Serviceable Components

Table 5–1 List of quick-wear components

Name	When to replace
Door hanger roller	Replace if there is unusual noise during operation or if there is a blockage
Door slider	Replace if the wear exceeds 1 mm or if there is unusual noise during operation
Steel rope	Replace if there are multiple broken wires or strands
Steel rope pulley	Replace after 1 million operations (about three years) or if there is unusual noise during operation or wear.

5.2 Maintenance Precautions

- Wipe the guiding rail of the door at the maintenance session. Check the extent of wear of the door roller. Make replacement if the extent of wear exceeds 1.5 mm in depth.
- Check the tension of the car and landing door steel rope at the maintenance session.



PL	A (T2)	A (C2)
⩽1300	8 to 12	10 to 14

Figure 5-1 Checking the tension of the steel rope (unit: mm)

- Check the position of limit switches of the door operator at the maintenance session and ensure the clearance between the switch socket and the plug is 4 mm±0.5 mm to ensure normal operation.
- Check the door slider wear quarterly. It is recommended to replace the slider if the wear on one side is over 1 mm or if there is abnormal operation. If there is a noticeable metallic friction sound, the slider must be replaced immediately.

6 Glossary

Term	Description
PL	Door opening width.
Door opening center	The center position of the elevator car entrance and exit.
Finished surface	The surface after the landing floor decoration is finished.
Reserved distance	The reserved space for installing the sill.
Verticality	The deviation of an object position relative to the direction of gravity or another reference object. For example, the verticality of the door panel should not exceed 1/1000. This means that the allowed deviation ratio is one-thousandth of the height; for every 1000 mm in height, the allowable tilt error should not exceed 1 mm. Excessive deviation can cause operational issues with the door panel such as stuck operation and abnormal noise. If the door panel tilt exceeds 1/1000, you can fine-tune its position by adjusting the fixing bolts or adding washers.
Fire damper hook	A key component in fire-proof doors used to achieve mechanical locking and sealing, primarily designed to prevent the spread of fire and smoke during a fire.

7 Service and Support

Should you encounter a safety accident during the use or operation of the product, or face challenges in operating and maintaining the equipment, which remain unresolved after the relevant documentation is consulted, we provide multiple channels to ensure prompt resolution:

- Channel #1: Contact service@inovance.com.
- Channel #2: Visit https://www.inovance.com/global to access document downloads, after-sales support, spare parts ordering, repair applications, and authenticity verification services.
- Channel #3: Download My Inovance app (https://zshc-eu.inovance.com/download-pc/) where you can access products info and documentation, and query product parameters.

We are committed to providing you with quick and professional technical support, and we look forward to your satisfaction and trust.

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