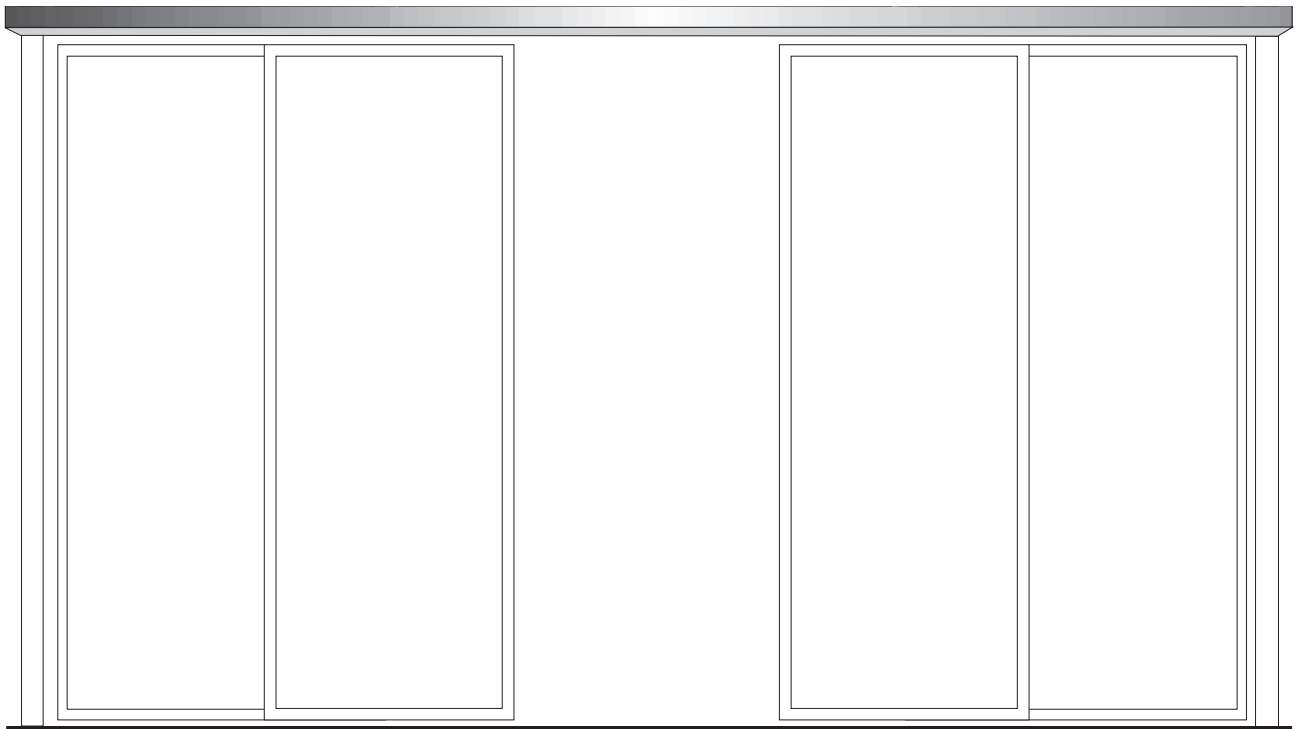




ECdrive T2

EN Installation and service instructions

219536
2026-09_01



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1 Introduction

1.1 Symbols and illustrations

Warning notices

In this manual, warning notices are used to warn against material damage and injuries.

→ Read and follow the safety instructions.

→ Follow the instructions marked with the warning symbol and warning phrase.



DANGER

Indicates an imminent danger. Failure to heed the danger will result in death or serious injury.



WARNING

Indicates a potentially imminent danger. Failure to heed the danger may lead to death or serious injury.



CAUTION

Indicates a potentially imminent danger. Failure to recognise the danger may result in minor or slight injuries.

Further symbols and illustrations

Important information and technical instructions are highlighted to explain correct operation.



NOTICE

means "important note". Information to prevent property damage, to understand or optimise the operation sequences.



means "additional information".

a) Symbol for an action. This means the user needs to do something. If there are several steps, follow them in the given order.

1.2 Revisions and validity

Version 00: valid for the ECdrive T2 product family from date of manufacture 2026.

1.3 Product liability

In accordance with the manufacturer's liability for its products as defined in the German "Product Liability Act", compliance with the information contained in this brochure (product information and intended use, misuse, product performance, product maintenance, obligations to provide information and instructions) must be ensured. Failure to comply releases the manufacturer from its statutory liability.

1.4 Reference documents

Type	Name
Wiring diagram	DCU1-NT / DCU1-2M-NT automatic linear sliding doors
Wiring diagram	DCU1-NT-eco automatic linear sliding door control unit
Additional wiring diagram	DCU1-2M-NT automatic linear sliding doors, DCU1-2M-NT door control unit for automatic linear sliding doors in rescue routes, FR variants: DUO, LL, RWS
User manual	Automatic sliding door systems
Faults and corrective measures	DCU1-NT/DCU1-2M-NT electronic drive for automatic sliding doors
Cable plan	Automatic sliding door systems
Safety analysis	Automatic sliding doors
Pre-installation instructions	ECdrive T2 Product family
Installation instructions	Girder section and end cap
Pre-installation instructions	Leaf and side panel profile systems

The diagrams are subject to change without notice. Use only the most recent version.

2 General safety notes

2.1 Intended use

The sliding door system

- is used for the automatic opening and closing of a building passage.
- may only be used in a vertical type of installation and in dry rooms within the permitted application area.
- is designed for pedestrian traffic in buildings.

The sliding door system may only be used,

- in the modes of operation specified by GEZE.
- using components approved by GEZE.
- using the software supplied by GEZE.
- in the installation variants/types of installation documented by GEZE.
- within the tested/approved area of application (climate/temperature/IP rating).

Any other use is considered improper and will lead to the cancellation of all liability and warranty claims against GEZE.

2.2 Reasonably foreseeable misuse

The sliding door system is not intended

- for use as a safety device in industrial applications.
- for applications which do not involve pedestrian traffic (such as garage doors)
- on movable objects.

2.3 Safety notes

- Intervention and modifications which influence the safety technology and functionality of the sliding door system may only be carried out by GEZE.
- Problem-free and safe operation assumes proper transportation, proper set-up and installation, qualified operation and correct maintenance have taken place.
- Comply with the relevant accident prevention regulations, as well as other generally accepted guidelines for safety technology and occupational health.
- Only original accessories, genuine spare parts and accessories approved by GEZE guarantee proper function.
- Assembly, commissioning, maintenance, dismantling and disposal must be carried out exclusively by GEZE-authorized specialist personnel.
- The country-specific laws and regulations are to be observed during safety-related tests.
- If unauthorized changes are made to the system, GEZE cannot be held liable in any way whatsoever for any resulting damage, and the statement of approval for use in escape and rescue routes is no longer valid.
- GEZE does not accept any warranty for combinations with third-party products.
- Use only original GEZE parts for repair and maintenance work.

- Connection to the mains voltage must be carried out by a qualified electrician or a qualified electrician for specified tasks.
- The power connection and protective earth conductor test must be carried out in accordance with DIN VDE 100-600.
- Use an on-site automatic circuit-breaker as the line-side disconnecting device. Its dimensioning is matched to the type, cross-section, type of laying and ambient conditions of the on-site power supply circuit. The automatic cut-out must have at least 4 A and may have maximum 16 A.
- Protect the programme switch from unauthorised access.
- In accordance with Machinery Directive 2006/42/EC, carry out the safety analysis before commissioning the door system and label the door system in accordance with the CE Labelling Directive 93/68/EEC.
- Observe the latest versions of guidelines, standards and country-specific regulations, in particular:
 - DIN 18650: "Powered pedestrian doors"
 - VDE 0100, Part 600: "Installation of low-voltage systems"
 - EN 16005 : "Power operated pedestrian doorsets; safety in use; Requirements and test methods"
 - DIN EN 60335-1 "Safety of electrical devices for home use and similar purposes – Part 1: General requirements"
 - EN 60335-2-103 : "Household and similar electrical appliances – Safety, Particular requirements for drives for gates, doors and windows"
 - Use the relevant regulations when selecting suitable fasteners.

Do not loosen screwed, electric earthing connections.



Install/fit the product in such a way that it can be easily accessed for any repairs and/or maintenance with relatively little effort and that any removal costs are not disproportionate to the value of the product.

- Danger of injury with opened drive. Hair, clothing, cables, etc. can be drawn in by rotating parts!

2.4 Safety-conscious working

- Secure workplace against unauthorised entry.
- Watch the swivelling range of long system parts.
- Do not carry out work involving a high safety risk on your own. This includes, for example, the assembly of the drive unit, the cover or the door leaf.
- Secure the cover/drive panels against falling.
- Secure non-fixed components to prevent them falling.

- Only use the cables specified in the wiring schematic. Connect the shields according to the wiring diagram.
- Secure loose internal drive cables with cable ties.
- Before working on the electrical system:
 - Disconnect the drive from the 230 V mains and secure it against being switched back on again. Check isolation from power supply.
 - Disconnect the control unit from the 24 V rechargeable battery.
- Note that if an Uninterruptible Power Supply (UPS) is used, the system will still be supplied with voltage despite the fact that the power supply is disconnected.
- Always use insulated wire end ferrules for wire cores.
- Make sure of sufficient lighting.
- Use safety glass.
- Attach safety stickers to glass leaves.
- Danger of injury with opened drive. Hair, clothing, cables, etc. can be drawn in by rotating parts!
- Danger of injury due to crushing, impact, shearing and drawing-in spots not being secured!
- Danger of injury due to glass breakage! Always only use safety glass.
- Danger of injury due to sharp edges on the drive and door leaf.
- Danger of injury during installation through freely moving parts!

2.5 Environmentally conscious working

- When disposing of the door system, separate the different materials and send them for recycling.
- Do not dispose of standard or rechargeable batteries with household waste, and comply with the relevant legal requirements.
- When disposing of the door system and the standard / rechargeable batteries, please comply with the relevant legal requirements.

2.6 Safety notes related to transportation and storage

- The door operator is not designed to withstand heavy impacts or falls from a height.
- Do not throw, do not drop.
- Storage temperatures below -30°C and above $+60^{\circ}\text{C}$ may cause damage to the device.
- Protect against humidity.
- Use special glass transport devices (e.g. A-frames) for transporting glass.
- Always store glass in a vertical position on level and load-bearing ground. Use suitable material as a support (e.g. wooden slats).
- In the case of ISO glass, make sure that it is placed flush across the entire element thickness on at least two supports.
- During storage and support, safety devices must not cause any damage to the glass or edge seal of ISO glass and must be attached flat on the glass pane surface.
- Dry, well ventilated, closed, weather-proof and UV-protected rooms are suitable as storage areas.

2.7 Qualification

Observe country-specific regulations!

Applicable in Germany:

Companies which carry out the pre-mounting of sliding door drives for escape routes must be approved as an extended production facility by the testing institute which issued the type approval certificate.

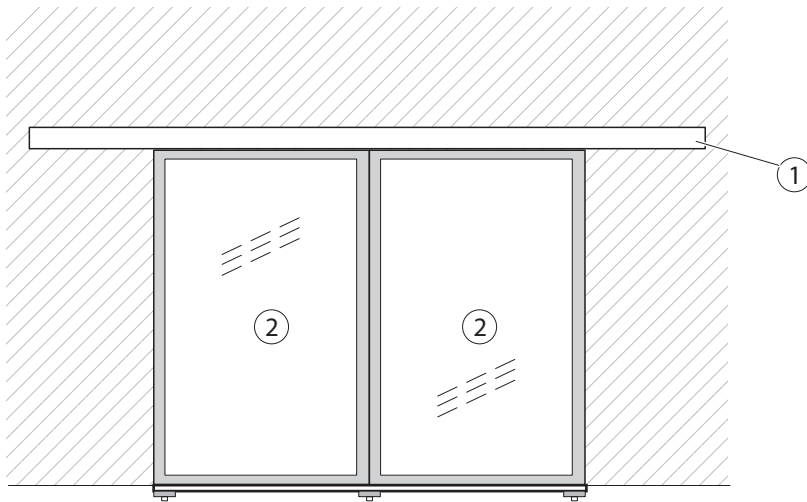
3 About this document

3.1 Overview

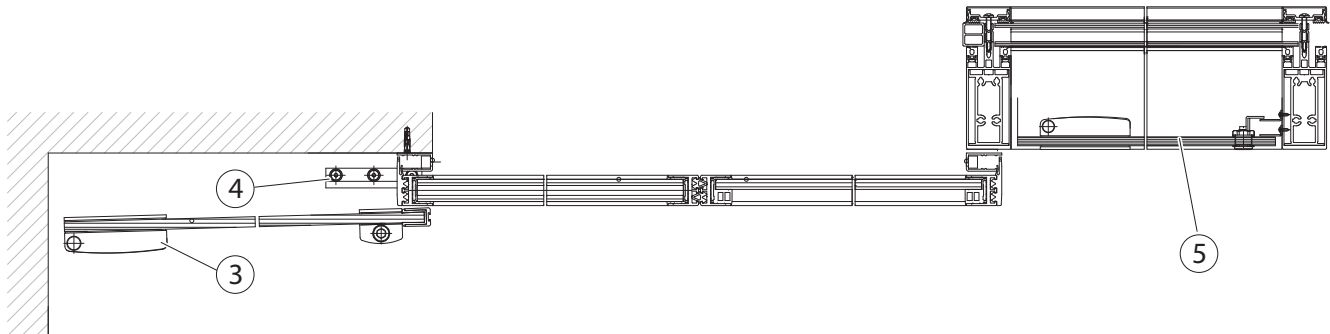
These instructions describe the installation of automatic sliding door drives in the ECdrive T2 product family without side panels.

The installation of the fixed panels and the girder section is described in the installation instructions "Girder section fixed panel".

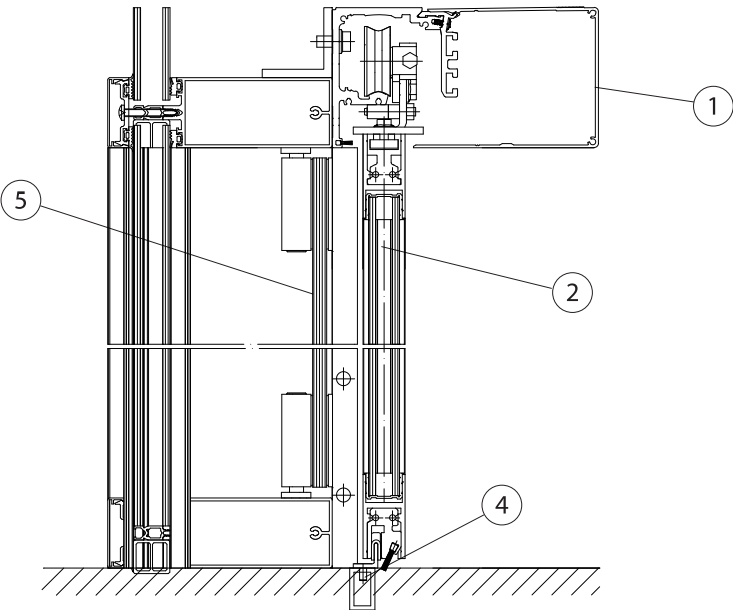
Wall mounting of the ECdrive T2 (front view)



ECdrive T2 with ISO profiles (top view)



ECdrive T2 with ISO profiles on a mullion-transom construction (side view)



1	Sliding door drive	2	Moving leaf
3	Protective leaf	4	Floor guide
5	Safety leaf		

4 Overview

4.1 Diagrams

Drawing no.	Type	Name
70518-0-001	Drive drawing	ECdrive T2, drives
70518-0-040	Drive drawing	ECdrive T2 eco, drives
70518-ep01	Installation plan	ISO (toughened safety glass) glass fitting, 1-leaf
70518-ep02	Installation plan	ISO (toughened safety glass) glass fitting, 2-leaf
70518-ep03	Installation plan	ESG (toughened safety glass) glass fitting, 1-leaf
70518-ep04	Installation plan	ESG (toughened safety glass) glass fitting, 2-leaf
70518-ep17	Installation plan	ISO (toughened safety glass) post-rail construction 1-leaf
70518-ep18	Installation plan	ISO (toughened safety glass) post-rail construction 2-leaf
70518-ep19	Installation plan	ESG (toughened safety glass) post-rail construction 1-leaf
70518-ep20	Installation plan	ESG (toughened safety glass) post-rail construction 2-leaf
70518-ep21	Installation plan	ISO Lock A 1-leaf
70518-ep22	Installation plan	ISO Lock A 2-leaf
70518-ep23	Installation plan	ISO Lock M 1-leaf
70518-ep24	Installation plan	ISO Lock M 2-leaf
70518-ep33	Installation plan	ISO mullion-transom construction, Lock A, single leaf
70518-ep34	Installation plan	ISO mullion-transom construction, Lock A, double leaf
70518-ep35	Installation plan	ISO post-rail construction Lock M 1-leaf
70518-ep36	Installation plan	ISO post-rail construction Lock M 2-leaf
70518-ep37	Installation plan	Protective leaf attachment
70518-ep38	Installation plan	ISO-ESG (toughened safety glass) side panel on site
70518-ep39	Installation plan	Wooden leaf on site 1-leaf
70518-ep40	Installation plan	Wooden leaf on site 2-leaf
70484-ep04	Installation plan	Safety leaf for sliding door drives
70518-2-0200	Component drawing	Track, made to measure

Drawing no.	Type	Name
70518-2-0203	Component drawing	Cover 100×132
70518-2-0204	Component drawing	Cover 150×132
70518-2-0205	Component drawing	Bespoke tracks, mullions and bolts
70715-9-1818	Installation drawing	Assembly of continuous floor guide

The diagrams are subject to change without notice. Use only the most recent version.

4.2 Tools and aids

Tool	Size
Tape measure	
Marking pen	
Torque spanner	
Allen key	2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm
Open-ended spanner	8 mm, 10 mm, 13 mm, 15 mm
Screwdriver set	Floor guide slot up to 6 mm; Phillip's head PH2 and PH4
Torx key	Tx 20; bit length at least 110 mm
Side-cutting pliers	
Crimping pliers for cables	
Wire stripper	
Multimeter	
Display programme switch/service terminal ST220/myGEZE Connects	
Ring spanner	8 mm, 10 mm
Pin punch	4 mm

4.3 Torques

The torques are specified in the relevant assembly step or in the drive diagram.

4.4 Components and assembly groups

See the ep-drawing for the required installation situation and drive drawings.

5 Installation



NOTICE

- a) Secure workplace against unauthorised entry.
- b) Always work with a second person.
- c) Use a stepladder or stepstool.
- d) Keep inside area of track clean.

5.1 Preparations to be made on-site



NOTICE

Check the preparations that are not included to ensure proper mounting:

- a) Type and load capacity of the façade construction or suspending frame
- b) Flatness of the installation surface
- c) Flatness of the finished floor level
- d) Cable plan requirements

5.2 Preparing the track



NOTICE

Pre-mounted systems are delivered with attached module mount.

Remove the module mounts to make it easier to fix the track to the wall.

5.3 Assemble the intermediate plate (optional)

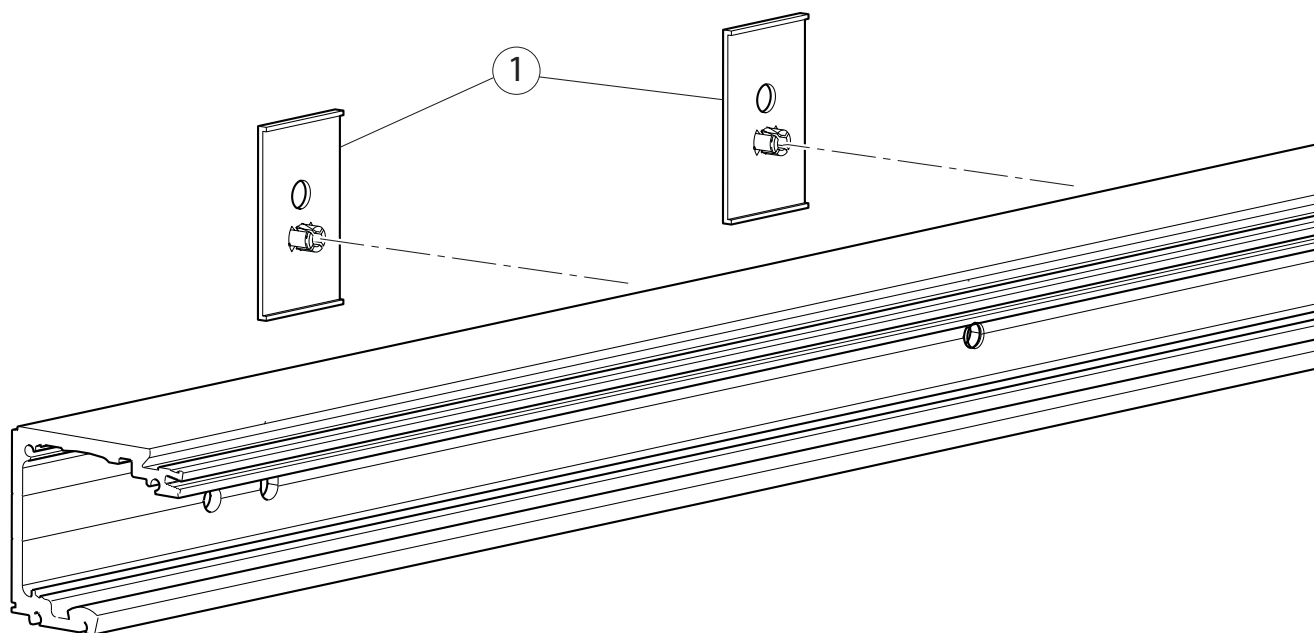


Illustration 1: Mounting the intermediate plates

- Clip the intermediate plates (1) onto the rear of the track.
 - Upper row of drill holes for wall installation
 - Lower row of drill holes for the clip of the intermediate plate



NOTICE

Mounting can also be carried out conversely depending on the building structure (post design). Use the upper row of drill holes for fixing if possible.

5.4 Install the track



NOTICE

Protect the running surface from damage.



NOTICE

There are oblong holes (2) provided for more straightforward alignment of the track. The track is fixed in place using the fixing holes (1) on the track. The oblong holes (2) do not have a load-bearing function.

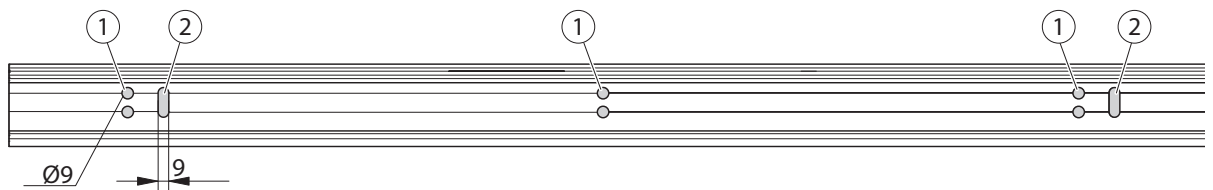


Illustration 2: Mounting holes for oblong holes

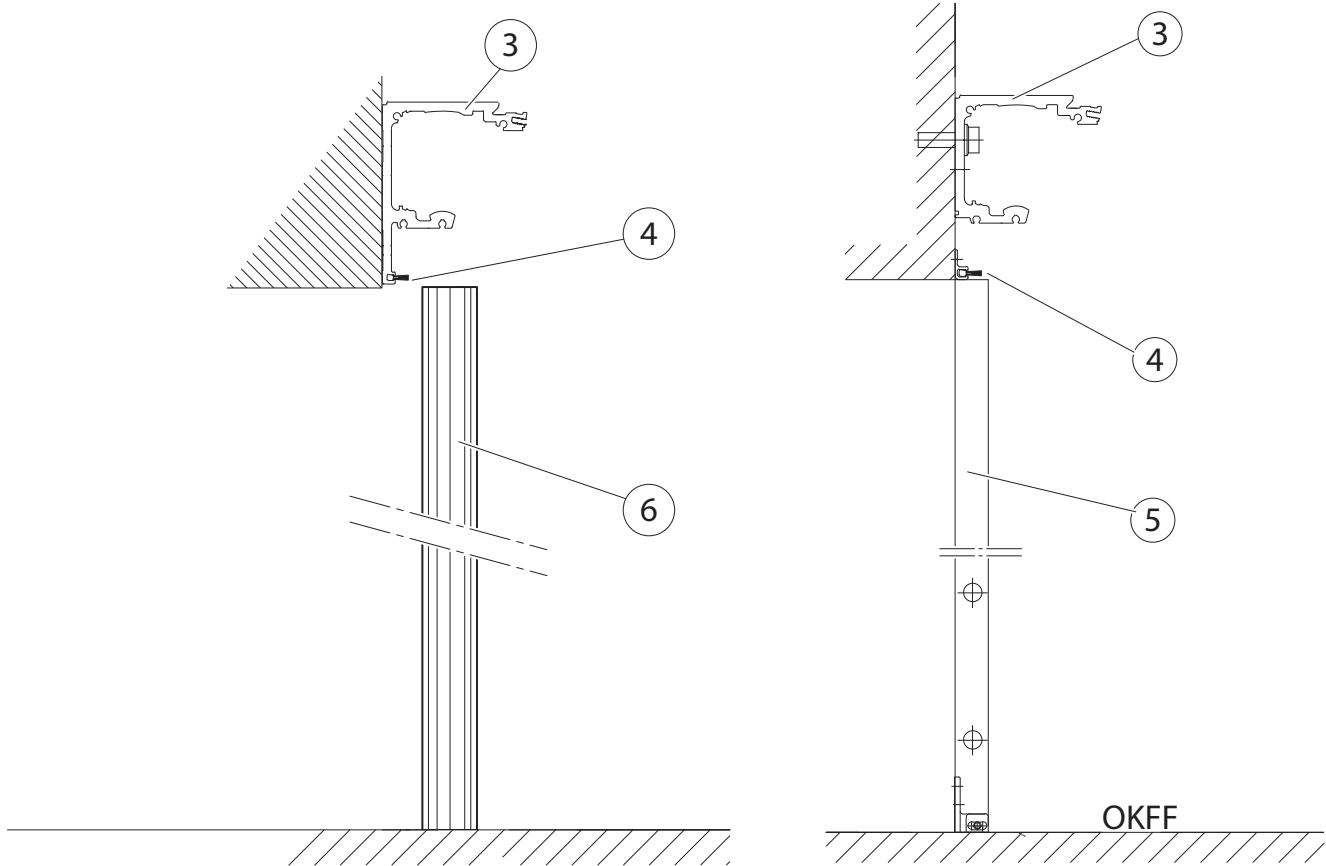


The illustrations are only an example, and show a single-leaf ISO door hardware for wall mounting.

- Determine the installation height of the track (3). Take unevenness of wall and floor into account.
- Position the track and mark 2 drill holes for the oblong holes (2) accordingly.
- Remove the track.
- Drill the holes for the oblong holes (2).
- Fix the track at the oblong holes (2) using 2 screws.
- Align the track horizontally.
- Mark the fastening drill holes (1) (upper row of drill holes on the track).
- Remove the track.
- Drill the holes (1) for fixing.
- Screw the track (3) in place.
- Install the sealing profiles (5).

- Install the brush profile with brush (4).
- With 1-leaf Appendixes:
- Install the wall strip (6).

Side view



5.5 Checking/preparing cable routing

The cable routing is on the left-hand side of the drive.

If the cables have been incorrectly routed on site and, for example, arrive in the middle or on the right-hand side, they can be routed through cable guides at the rear of the track to the left.



When the 230 V cable is routed through the drive it must be doubly insulated.

- Insert cable (1) into the track.
- Clip cable routing (3) into the track.
- Fasten the cable to the cable routing guides using cable ties (2).

The number of cable routing pieces required depends on the opening width:

- OW < 1250 mm = 6 cable routing guides (1 set)
- OW < 2350 mm = 12 cable routing guides (2 sets)
- OW < 3000 mm = 18 cable routing guides (3 sets)

5.6 Mounting the floor guide



The selection of floor guide depends on the on-site conditions. One of the following floor guide options must be used.

For further information, please refer to the relevant installation drawing.

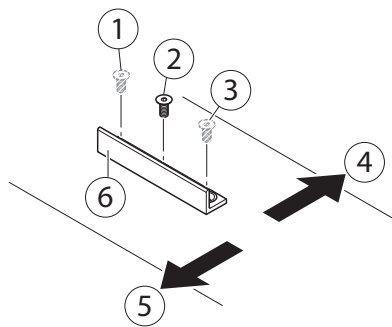
5.6.1 Fitting angled floor guide for floor mounting (option)

Angled floor guide with moving leaf left hand slide to open

→ Screw the angled floor guide (6) in place using 2 suitable countersunk screws (1) and (2).

Angled floor guide with moving leaf right hand slide to open

Screw the angled floor guide (6) in place using 2 suitable countersunk screws (3) and (2).



1	Countersunk screw for moving leaf left hand slide to open	2	Countersunk screw
3	Countersunk head screw for left-hand moving leaf	4	Outside
5	Inside	6	Angled floor guide

5.6.2 Adjustable angled floor guide for wall mounting (option)

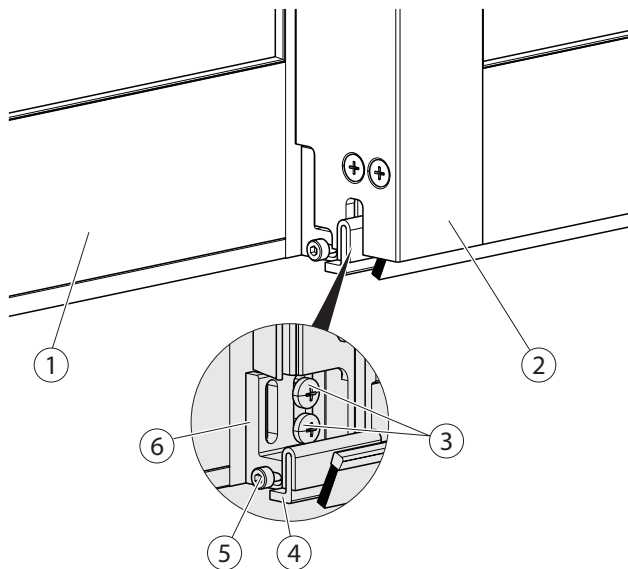
→ Screw the mounting bracket (6) to the side screen (1) using two screws (3).

– Torque 5 Nm

→ Align the moving leaf (2) and thus the adjustable keep (5), then tighten the screw (3).

– Torque 3 Nm

→ If there is no fixed panel available, mount the floor guide on the wall using suitable attachment material.



1	Side panel	2	Attachment bracket
3	Screws (cross recess)	4	Adjusting angle
5	Screws (hexagon socket)	6	Moving leaf

5.6.3 Continuous floor guide (option)



See the component drawing “Continuous floor guide” on how to install the continuous floor guide. For further information, please refer to the relevant installation plans.

5.7 Installing the moving leaf



WARNING

Danger of injury caused by door leaves falling over!

The door leaves are very heavy.

At least 2 people should work together to set up the door leaves.



WARNING

Danger of injury caused by crushing!

The door leaves are still unsecured and move easily.

Make sure that the door leaves are not moved accidentally or by unauthorised persons.



NOTICE

Clean track



The roller carriage is selected based on the system parameters. One of the following roller carriage options must be used.

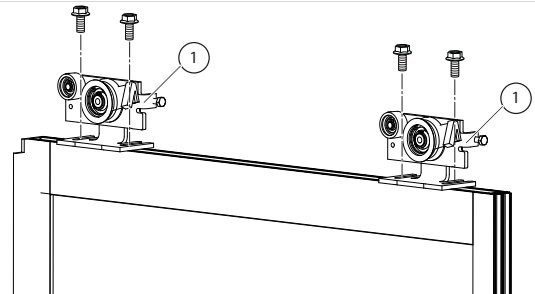
5.7.1 Assemble the single-roller carriage to the door leaf (optional)



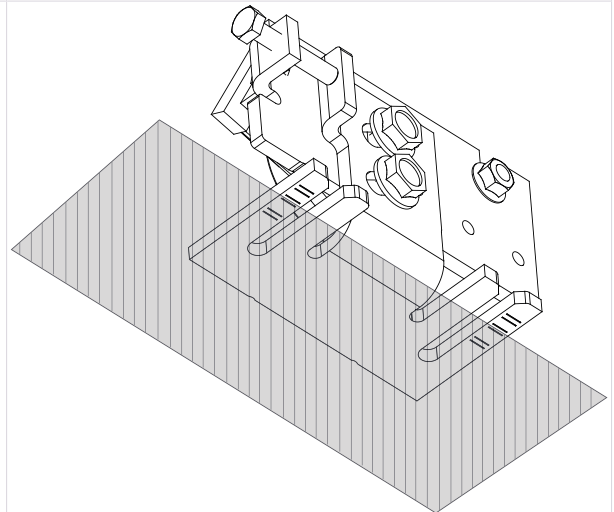
If your system uses a double roller carriage, proceed to the relevant section.

Mount the single roller carriage on the door leaf

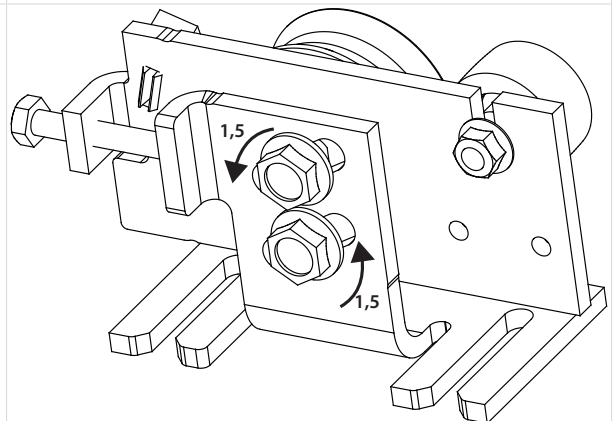
- Screw the roller carriage (1) onto the door leaf.



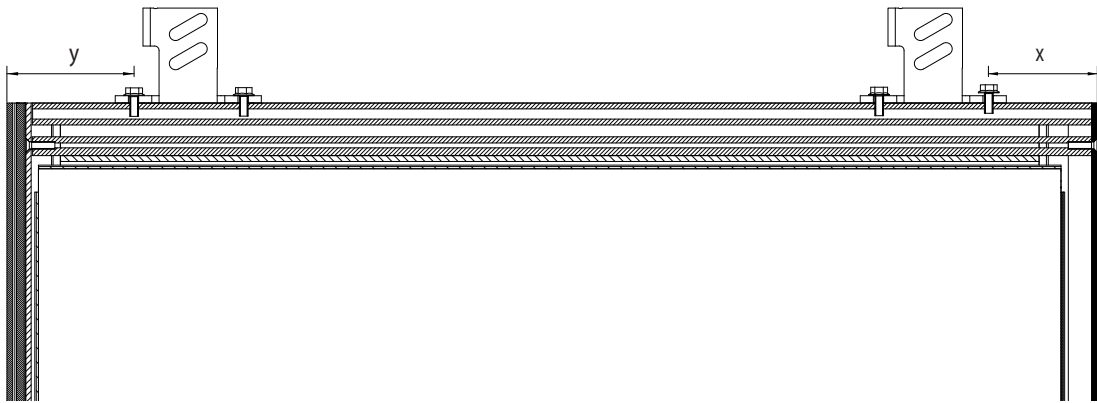
- Align the roller carriage so that the third notch, counting from the open side, is just visible.
- The roller carriage must always be positioned parallel to the door leaf.
 - The distance to the nth notch is the same on both sides.



- Once the roller carriage has been attached to the door leaf, tighten both central M8 screws and the M6 screw on the counter-roller hand-tight, then loosen them by approximately 1.5 turns.



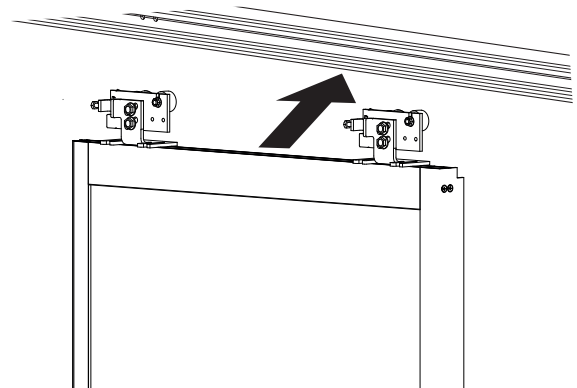
See the leaf installation drawing for the position of the support bracket.



Hanging the door leaf using a single-roller carriage

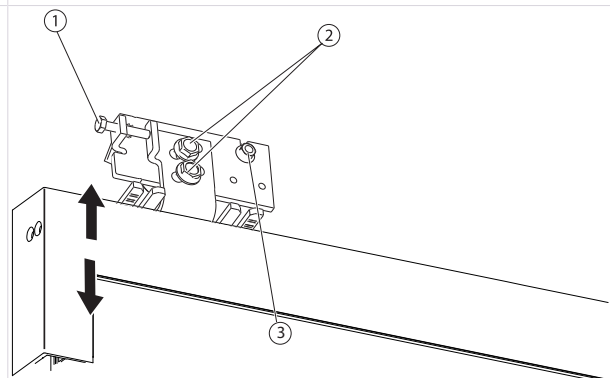
Setting up door leaves:

- Thread the bottom of the leaf into the floor guide.
- Swivel the leaf towards the track, lift it slightly and hook the roller carriage into place.
- Position the counter-roller (M6 nut) at a distance of 1 mm from the track and tighten it using an open-ended spanner.
- Tighten the M6 nut (3) to 12 Nm.
- This approach ensures better accessibility and allows you to secure the position of the counter-roller.



Aligning the door leaves:

- Once the roller carriage has been attached to the door leaf, tighten both central M8 screws and the M6 screw on the counter-roller hand-tight, then loosen them by approximately 1.5 turns.
- Use the two lower screws (1) to adjust the distance from the wall and the central M8 screws to adjust the height.
- Once the door leaf has been adjusted, tighten the screws (2).
- Torque 42 Nm
- After adjustment, check the distance between the counter-roller and the track.
- If the distance does not correspond to 1 mm, repeat the assembly of the counter-roller.

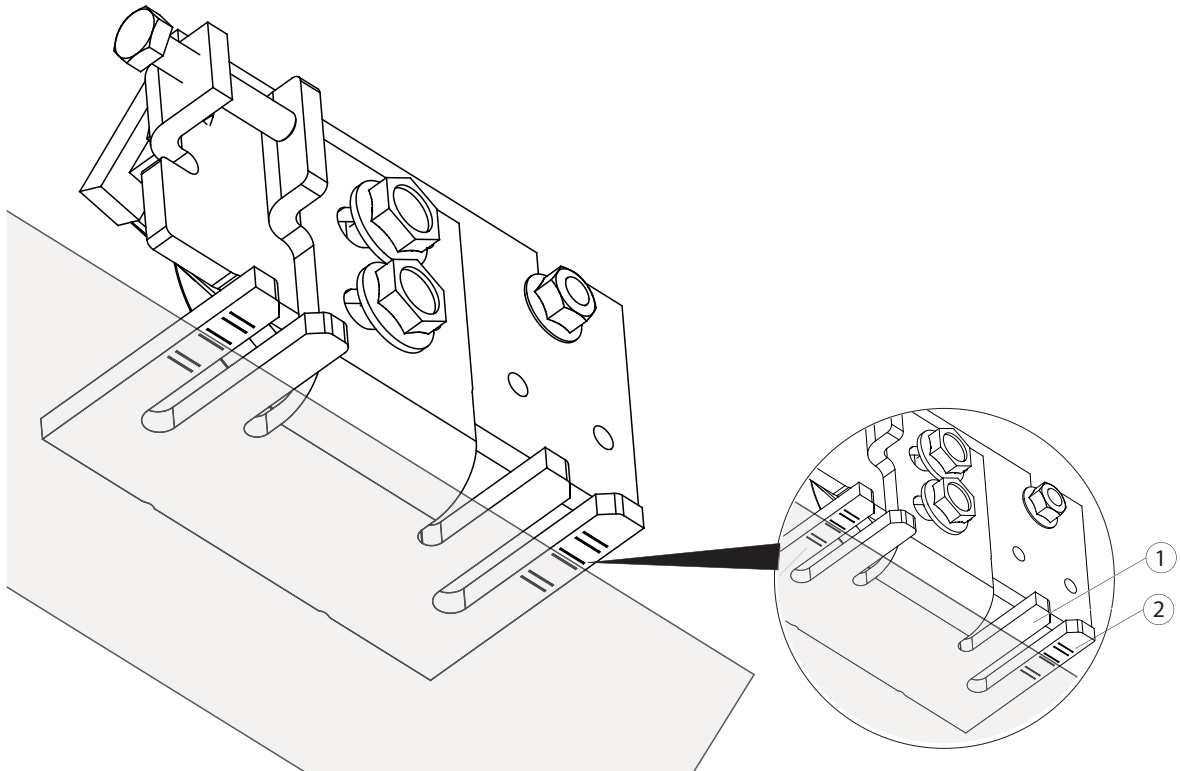


NOTICE! Make sure the roller carriage is parallel to the door leaf. Use the notches as a guide.



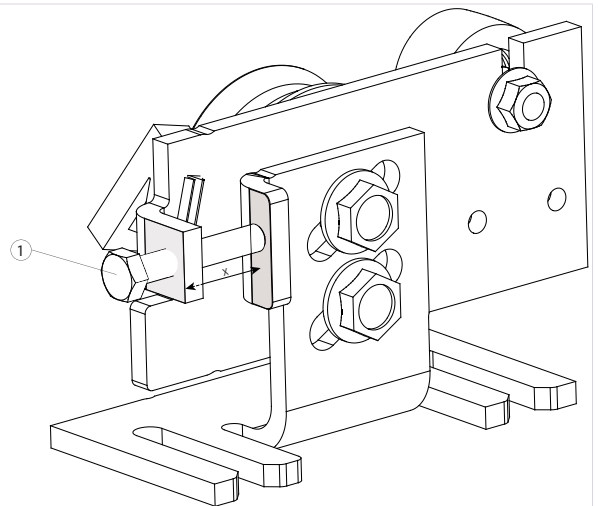
There are markings (2) on the support brackets (1) to make it easier to align the roller carriage on the door leaf.

This means all roller carriages can be set the same without measurement.



Zero position of the height adjustment: $X = 25.5$ mm

→ The height can be adjusted up or down by 5 mm by turning the adjustment screw (1).

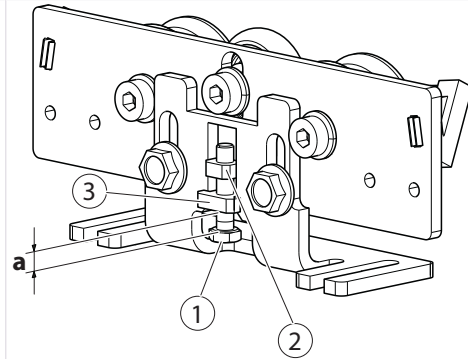


5.7.2 Assemble the double roller carriage to the door leaf (optional)

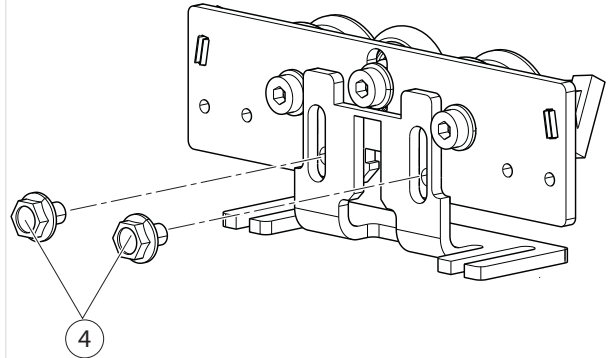
Mount the support bracket for the double roller carriage on the leaf.

→ Unscrew the screw (1) off the bracket (2).

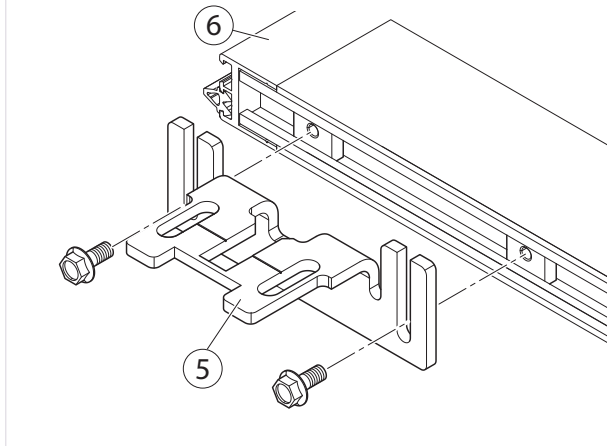
The distance *a* between the head of the screw (1) and the screw holder (3) will need to be readjusted later.



Unscrew both screws (4) and remove the support bracket from the double-roller carriage.



Screw the support bracket (5) on the left and right of the door leaf (6).

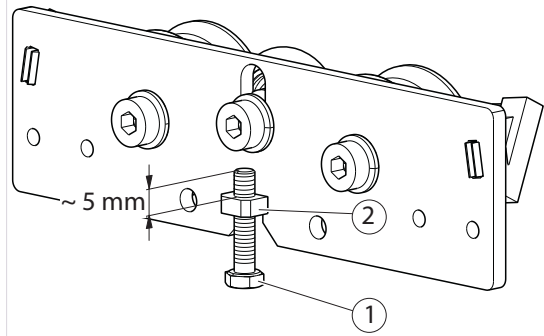


See the leaf installation drawing for the position of the support bracket.

Hanging the door leaf using a double roller carriage

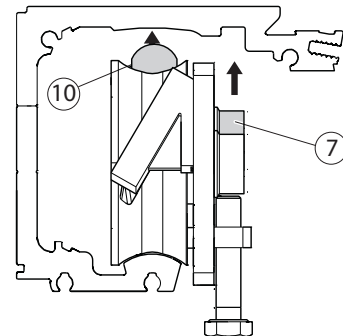
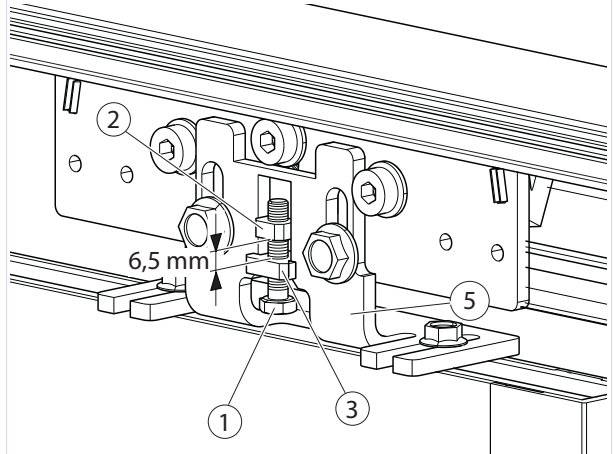
Fixing the double roller carriage to the track:

- Re-install the screw (1) with holder (2) without the screw holder (3).



- Place the roller bearing (8) on the track (9).
- Loosen the screw (7) for the counter-roller.
- Push the screw (7) upwards until the roller (10) is in contact with the track at the top.
- Tighten the screw (7).

– Torque 30 Nm



Setting up door leaves:

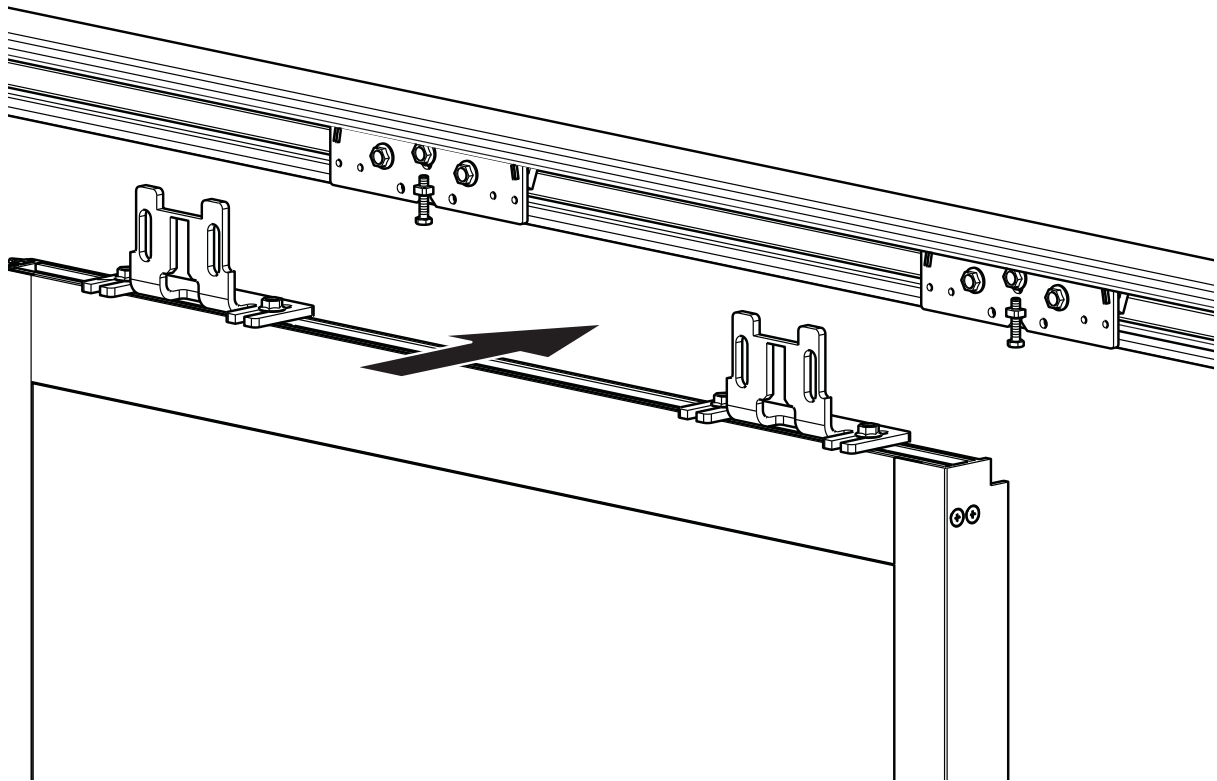


WARNING

Danger of injury caused by door leaves falling over!

The door leaves are very heavy.

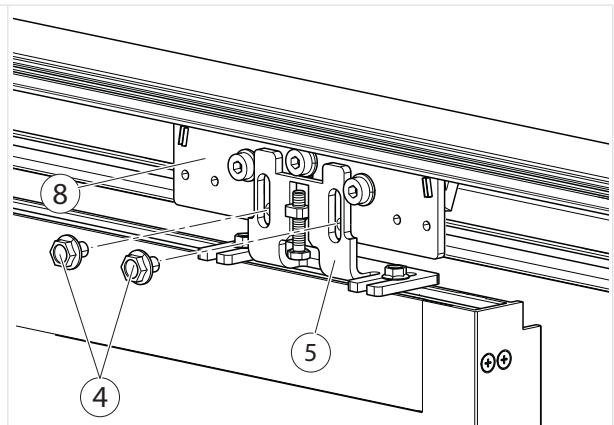
At least 2 people should work together to set up the door leaves.



→ Set up the door leaf with support bracket on double roller carriage.

Tightening the door leaves:

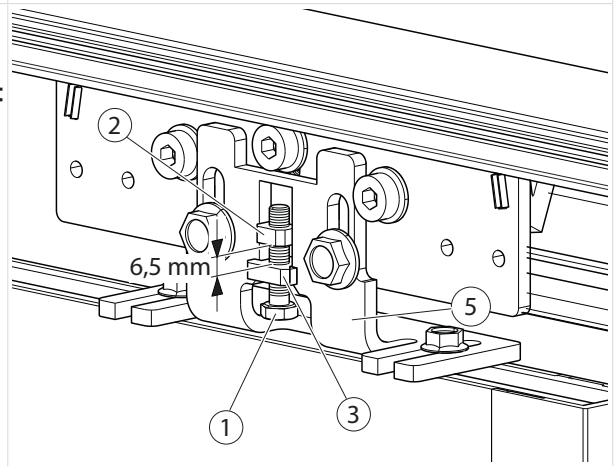
- Screw both support brackets (5) of the door leaves to the roller bearing (8) using Verbus-Ripp M8×10 safety screws (4).
- Tighten the safety screws (4) by hand.



- Screw the screw (1) out of the holder (2).

NOTICE! Make sure that the holder (2) does not fall to the ground.

- Screw the screw (1) with screw holder (3) as far into the holder (2) as necessary until the screw (1) is in contact with the support bracket (5).
- A clearance of 6.5 mm must be kept between the holder (2) and the screw holder (3).

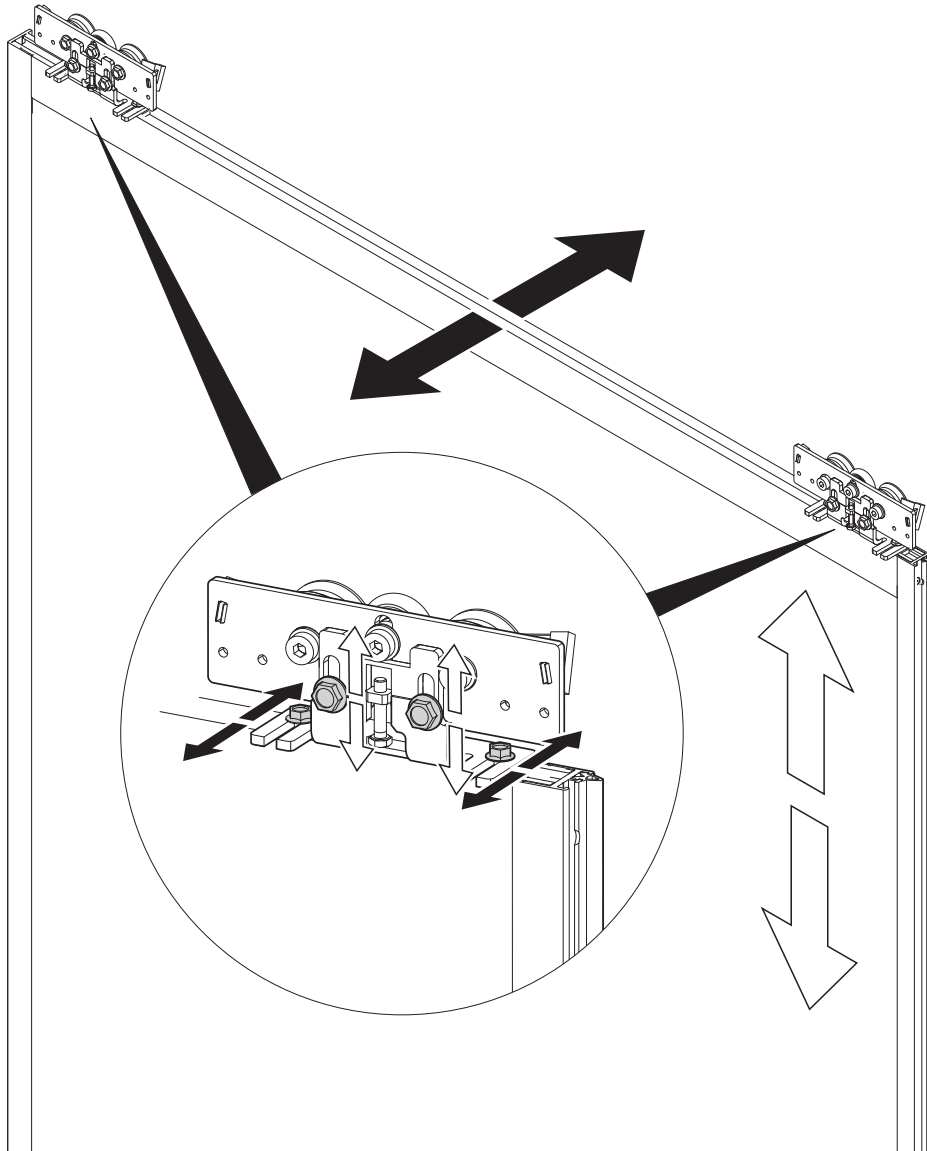


Aligning the door leaves:

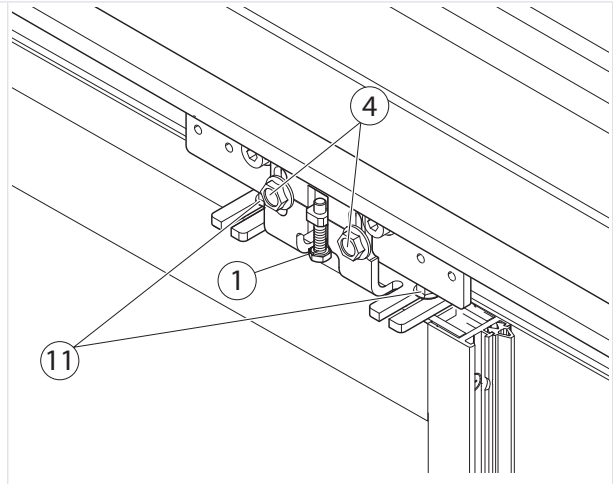


NOTICE

Align door leaves flush with each other. Ensure the same level and parallel closing edges when doing so.



- Loosen the two screws (4) and the two screws (11).
- Set the height and parallel position of the door leaves at the hex of the suspension bolt (1).
- Tighten the Verbus-Ripp M8×10 locking screws (4).
 - Torque 30 Nm
- Tighten the safety screws (11).
 - Torque 15 Nm

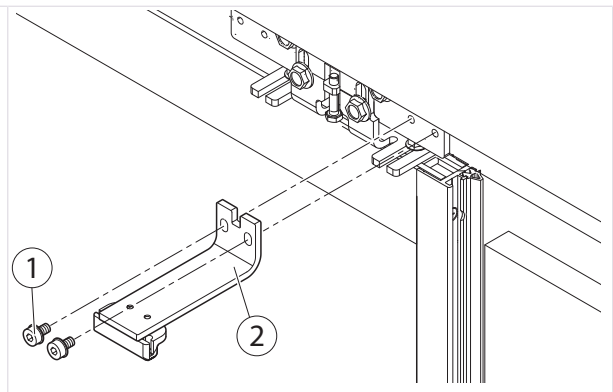


5.7.3 Installing the driver

Mounting the driver on the roller carriage

- Assemble the driver (2) to the roller carriage using two M6×10 hexagon locking screws (1).
- Torque 11 Nm

Example: ISO leaf with double-roller carriage



5.8 Installing the drive components

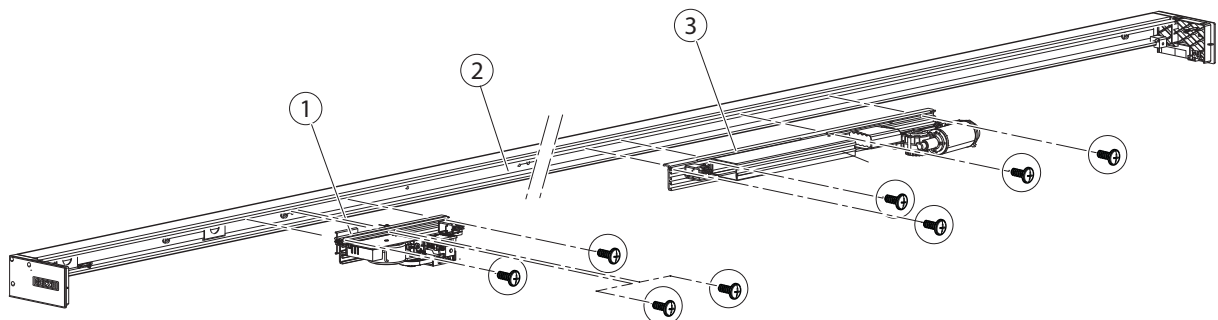
5.8.1 Mounting the module mounts on the left and right



WARNING

Unsecured parts may fall!

During assembly of the module carrier, it must be hooked into the track (2) along its entire length.

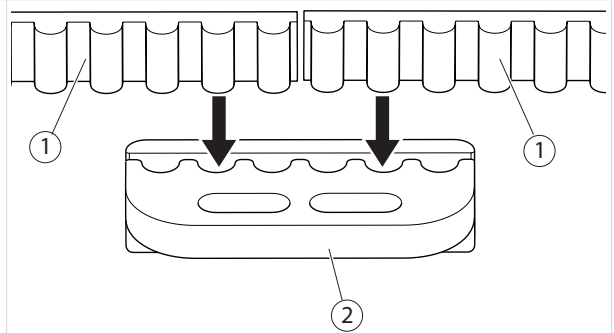


- Position the right module mount (3) in such a way that driver does not collide with the motor gear unit.

- Position the left module mount (1) in such a way that driver does not collide with the locking mechanism or the deflection pulley.
 - See drive diagram for positions.
- Assemble the pre-mounted module carriers on the left (1) and right (3) on the track (2) using 4 screws each.
 - Torque 3.5 Nm

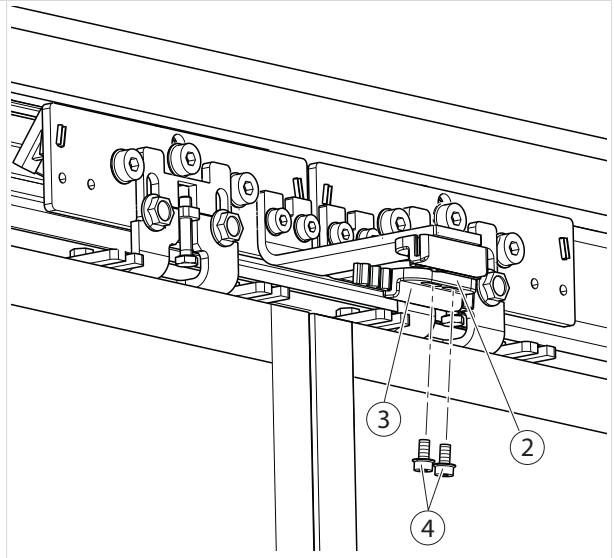
5.8.2 Fitting the toothed belt

- Thread the toothed belt on the motor pulley and deflection pulley, shorten if necessary.
- Insert toothed belt ends (1) into the toothed belt coupler (2) (3 teeth per side).



- Mount the toothed belt coupler (2) with screws (4) on the short driver (3).
- Do not tighten the screws yet.

Example: Drive pin installation on a double-roller carriage



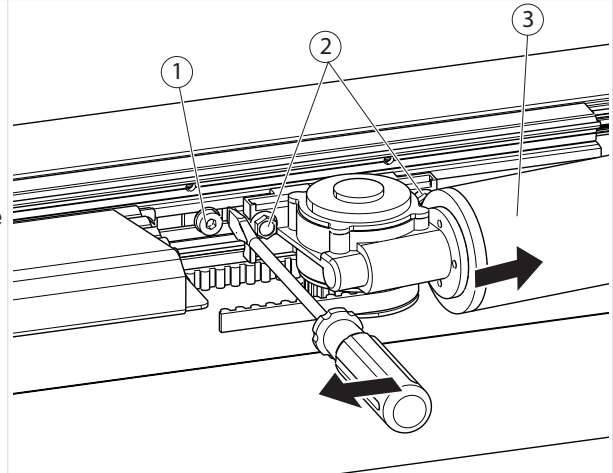
5.8.3 Tensioning the toothed belt



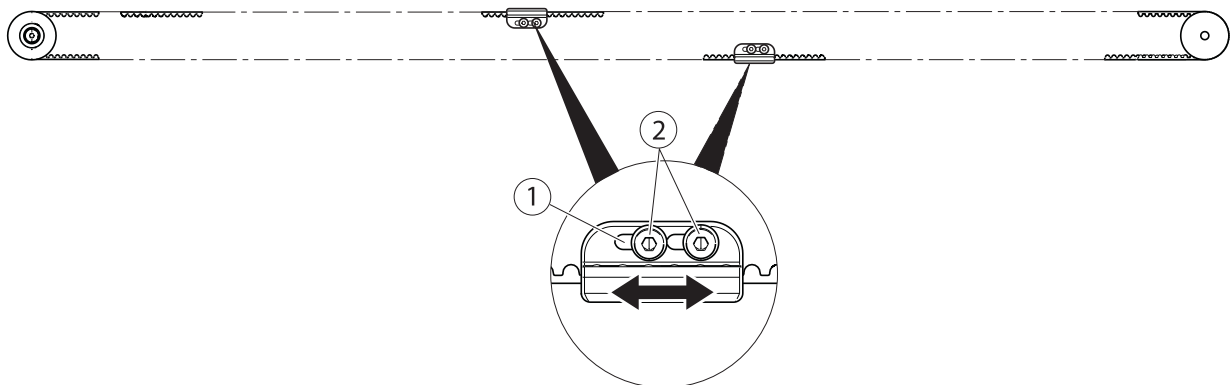
NOTICE

The toothed belt must be pre-tensioned with $300\text{ N} \pm 35\text{ N}$ (see drive drawing).

- Loosen screws (2).
- Slide the motor gear unit (3) to the right by hand.
- Undo the screw (1) and move the sliding block in such a way that a screwdriver can be pushed between the sliding block and the motor gear unit.
- Tighten the screw (1).
 - Torque 10 Nm
- Push the screwdriver into the gap and lever it until the toothed belt is pre-tensioned.
- Tighten screws (2).
 - Torque 15 Nm



5.8.4 Setting the closing position for 2-leaf systems



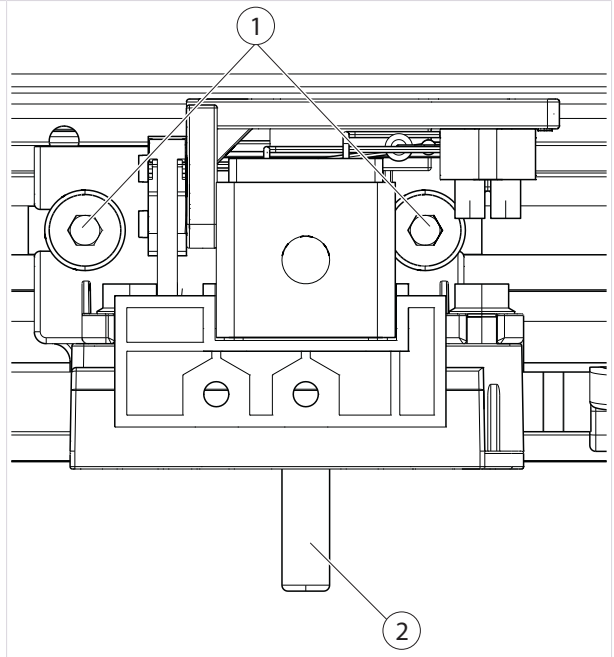
- Push the door leaf to the closed position.
- Assemble the second toothed belt coupler to the long driver; do not tighten the screws (2) yet.
- Use the oblong holes (1) to finely adjust the position in the direction of displacement.
- Once the exact closing position has been set, tighten the screws (2) on both toothed belt couplers.
 - Torque 6 Nm

5.8.5 Mount the stop buffers

- Undo the set screws on the stop buffer.
- Slide the moving leaf to the open position.
- Slide the stop buffer on the roller carriages.
- Tighten the set screws using an Allen key.
 - Torque 3 Nm

5.8.6 Position the toothed belt locking mechanism (optional)

- Close the moving leaves.
- Loosen the screws (1) at the toothed belt locking mechanism (optional).
- Align the locking device.

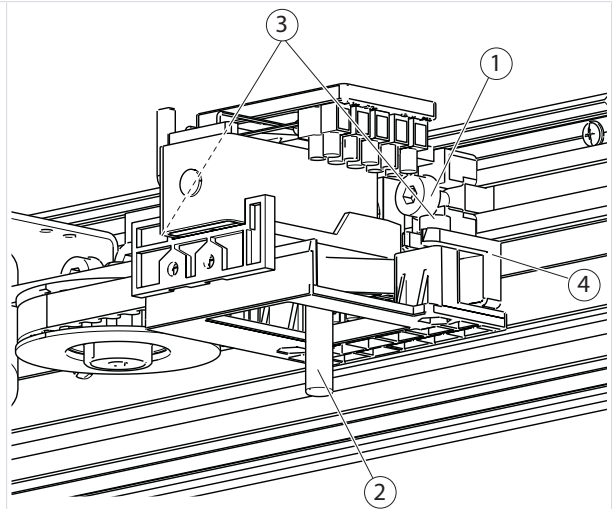


NOTICE

Once assembled, the locking pin (2) must sit in the hole in the cover in such a way that the locking mechanism can be locked and unlocked.

- If necessary enlarge the drill hole.
- Tighten screws (1).
- Adjust the locking guide (4) so that the toothed belt neither touches nor has too much clearance. To do this, loosen the two screws (3), move the locking guide (4) and retighten the screws (3).

– Torque 5 Nm



NOTICE

The driver must not hit the toothed belt locking mechanism (optional) during operation.



NOTICE

Once the toothed belt has been assembled, check the switching points of the toothed belt locking feedback switches (optional) (click). Adjust by bending the actuator levers, if necessary.

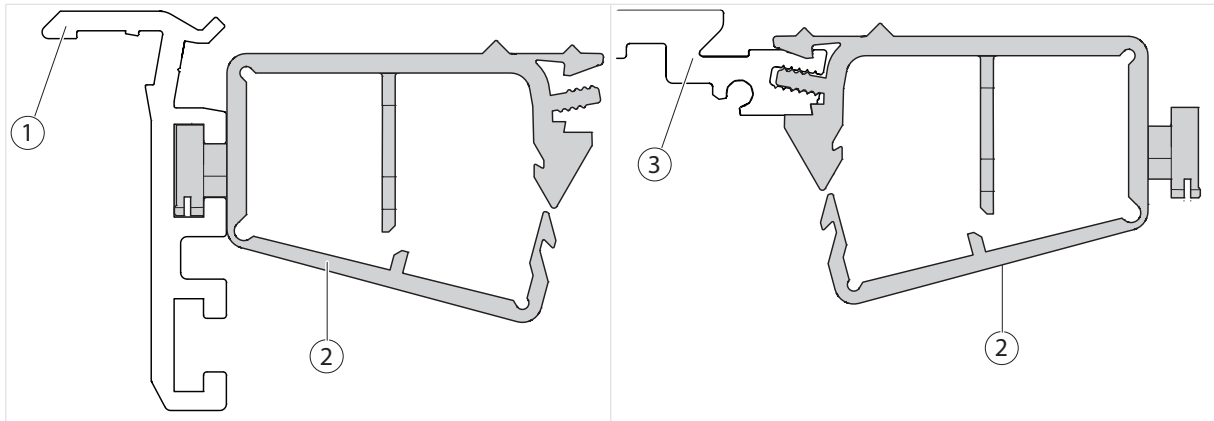
5.8.7 Installing cable guides



NOTICE

Cables can be cut!

Lay cables in such a way that there are no cables near the moving parts.



→ Fix the cable guide (2) on the module mount (1) and track (3). Distance between the cable guides: approx. 200 mm

5.8.8 Connecting transformer and control unit

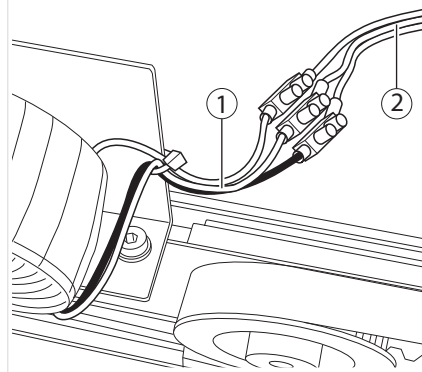


NOTICE

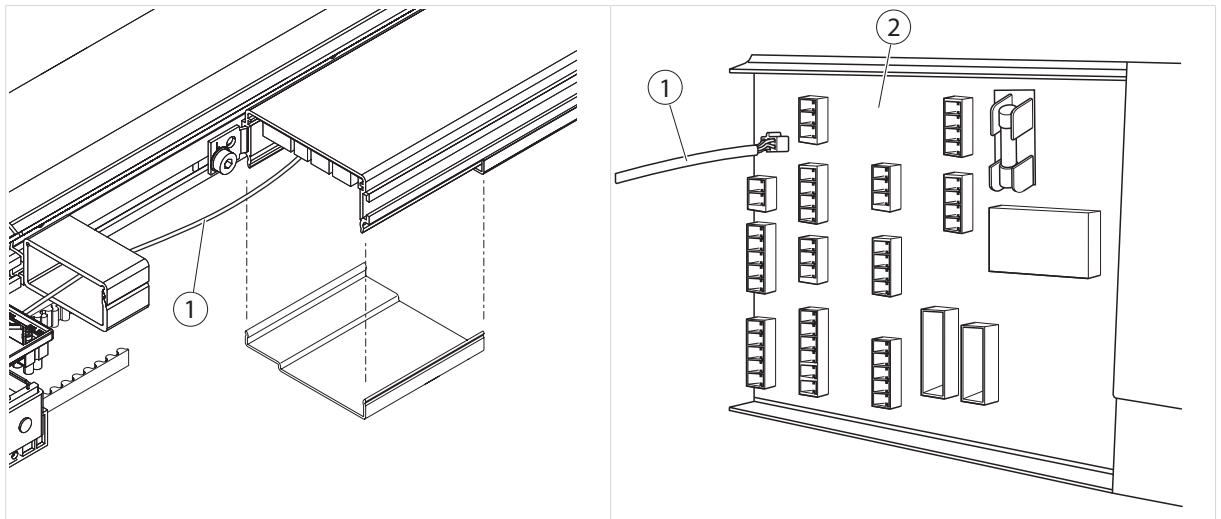
Note earthing connection!

Do not mix up cores!

→ Connect transformer cable (2) to the cable (1) on the transformer.

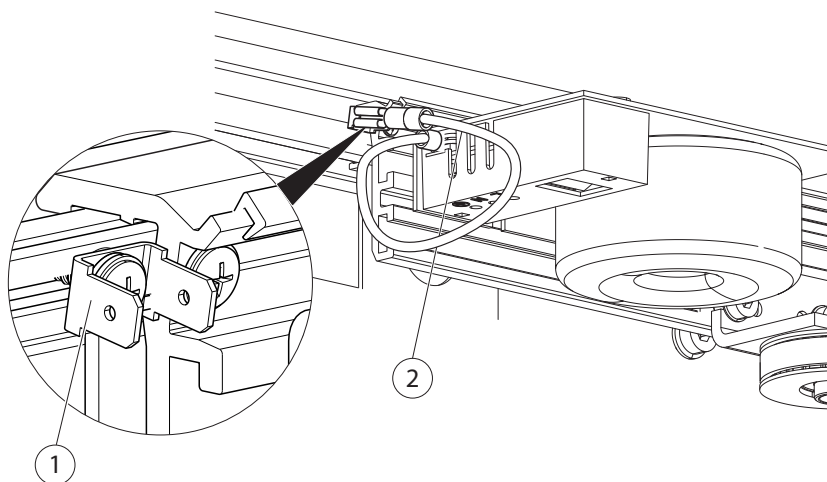


5.8.9 Connecting the toothed belt locking mechanism (optional) and control unit



→ Route the cable toothed belt locking mechanism (optional) (1) to the control unit (2) and plug it in.

5.8.10 Connect the earth



→ Connect the ground line (2) for single-leaf systems with extension) from the transformer using the pre-mounted device flat plug (1).

6 Production test and commissioning

6.1 Connecting the drive

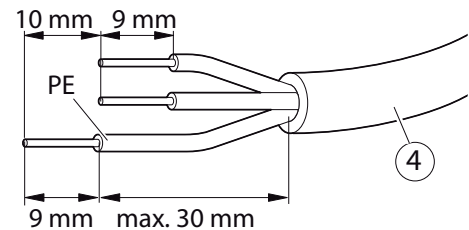
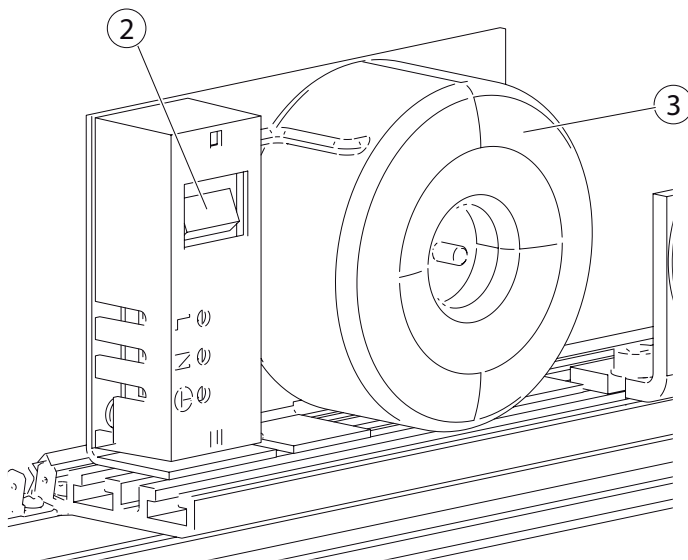


DANGER

Risk of fatal injury due to electric shock!

- a) The electrical system (230 V/115 V) may only be connected and disconnected by a qualified electrician or a qualified electrician for specified tasks.
- b) Carry out mains connection and protective earth conductor test in accordance with VDE 0100 Part 600.

→ Strip insulation from the power supply circuit (4) max. 40 mm.



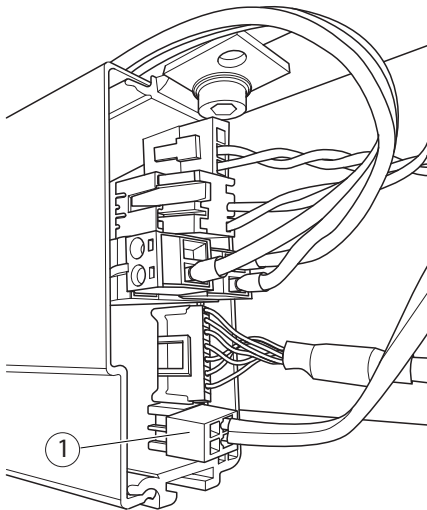
→ Strip the mains cable (4).

- Insulation stripping length 40 mm
- Stripping length 9 mm
- PE line lead 10 mm

→ Connect the drive to the 230 V mains supply.

→ Switch the main switch (2) on at the transformer (3).

→ Insert the rechargeable battery connector (1) at the control unit.



→ Carry out the production test as described in the wiring diagram “Automatic sliding doors DCU1-NT/DCU1-2M-NT”.

6.2 Installing the drive cover



CAUTION

Danger of injury!

People can be injured when handling the cover.

- a) Always make sure two people handle the drive cover.



CAUTION

Danger of injury from falling cover!

- a) Snap the cover securely into place on the side screens.
- b) Release the cover carefully and check whether it has been attached safely.



NOTICE

Before assembly, unscrew the red locking pin (1) from the toothed belt locking (optional).

6.2.1 Drill a hole for the toothed belt locking (optional).



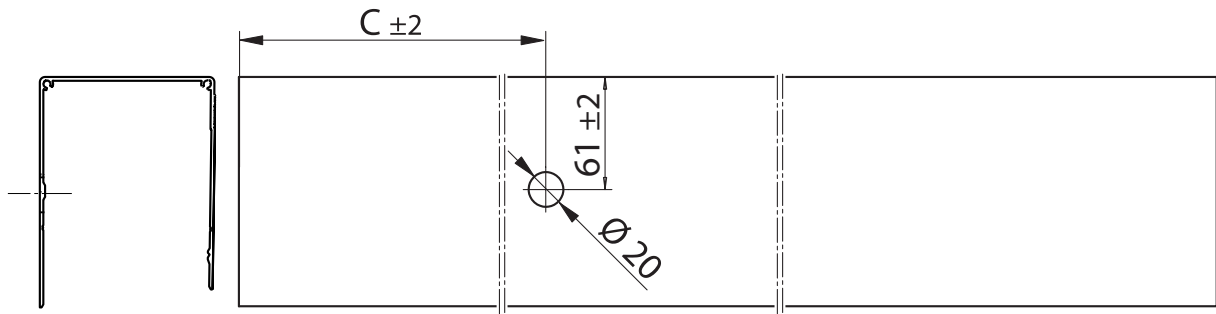
NOTICE

The position of the hole must be checked. Depending on the positioning of the drive components, there may be slight variations here.



The dimensions for dimension C are shown in the component drawing for the cover.

- Drill a hole Ø 20 mm.
- Deburr the hole.

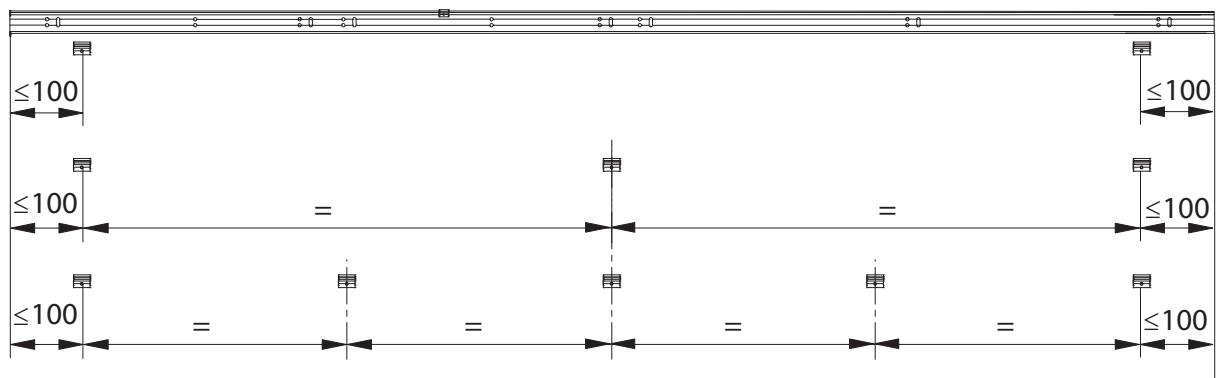


6.2.2 Assemble the cover fixing

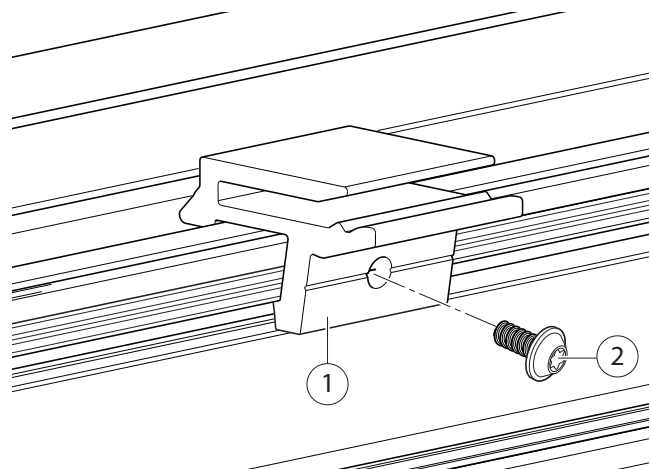
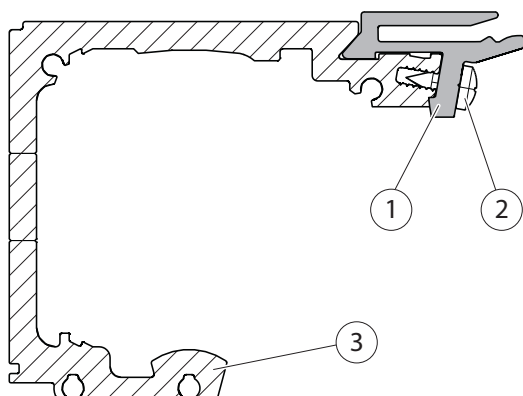
To guarantee the stability of the cover, cover fixings must be mounted to the track. The number and installation position depends on the length of the drive.

Drive length	Number of cover fixings
up to 4000 mm	2
4001 mm – 5000 mm	3
5001 mm – 6000 mm	5

Installation position



Inserting cover fixing



- ➔ Set the cover fixing (1) onto the track (3).
- ➔ Secure the cover fixing (1) using a screw (2).

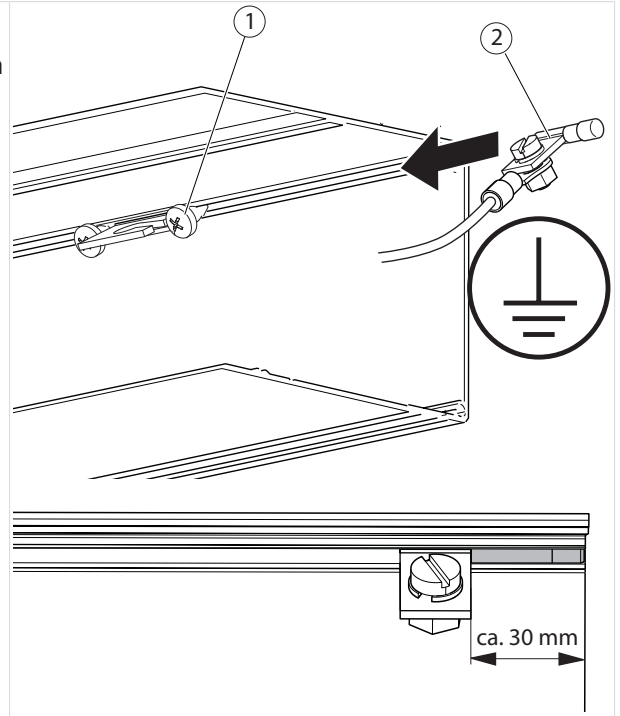
6.2.3 Installing the cover earthing



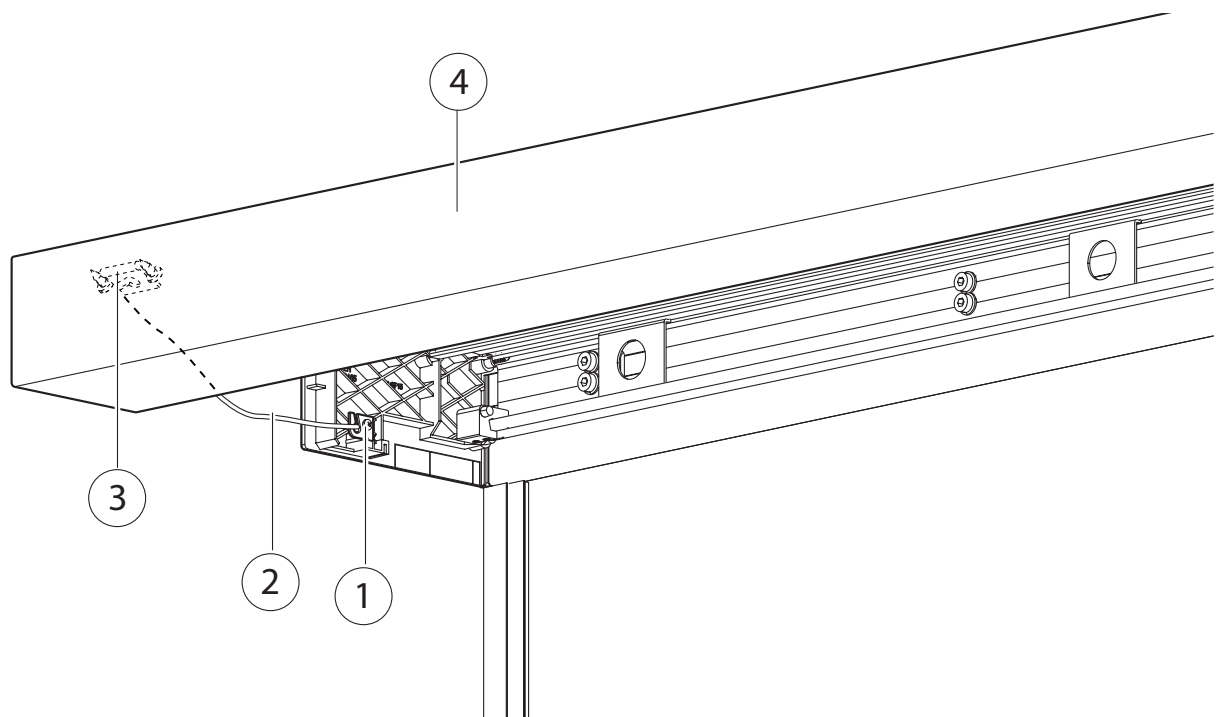
Nature and source of the hazard

Before installing the cover earthing, check whether the cover suspension piece (1) has been fitted.

- Knock the locating pin for the cover earthing (2) on the side of the earthing approx. 30 mm into the upper screw duct.



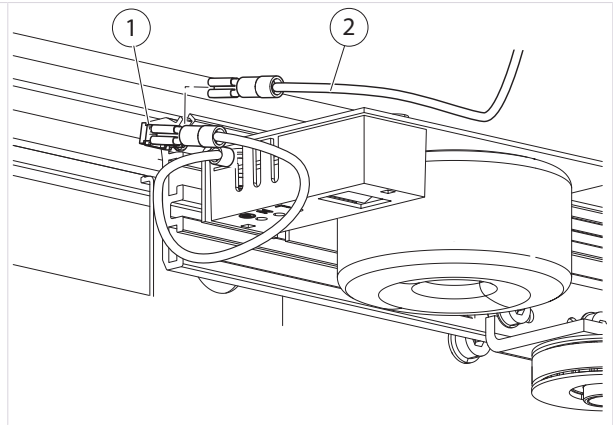
6.2.4 Hook the cover catch rope in place



- Hook the cover catch rope (2) on the cover suspension piece (3) in the cover (4).
- Hook the cover catch rope (2) on the suspension piece (1) of the side panels.

6.2.5 Connecting drive cover earthing

→ Connect the earthing cable (2) of the cover using the plug-in connection of the device flat plug (1).



NOTICE

Depending on the length of the drive, a 2nd device flat plug must be fitted for hood earthing, in order to bridge the gap between the transformer earthing and the cover earthing.

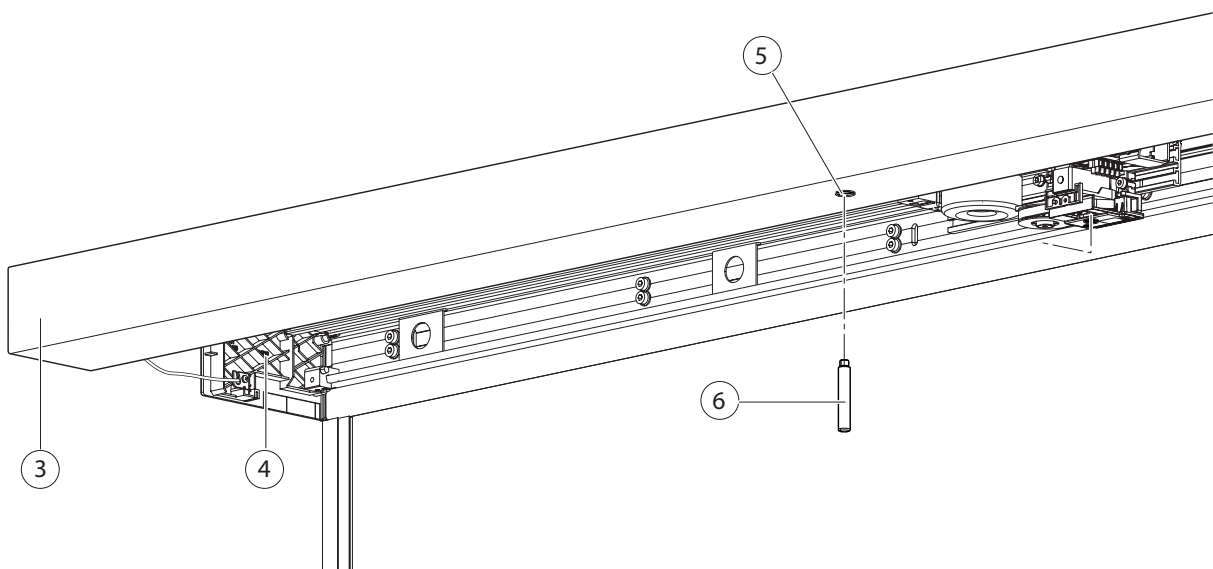
6.2.6 Sliding the drive cover in place

→ Slide the cover (3) onto the side panels (4) until it latches in and ensure that it is also seated correctly in the area of the track and cable guides.



NOTICE

Check the correct position of the cover catch ropes (2) and the earthing wire. There must not be any contact with moving parts.



→ Screw the locking pin (6) into the toothed belt locking mechanism (optional).

**NOTICE**

After assembly, the locking pin (6) must be positioned in the hole in the cover in such a way that the locking mechanism can be locked and unlocked.

→ If necessary, enlarge the drill hole (5) in the cover.

6.3 Installing safety devices



Information on the connection and parameter setting of the safety sensors, the inputs and outputs, and commissioning can be found in the wiring diagram.

→ Install safety and activation equipment.

→ Route cables properly in cable ducts.

6.4 Installing operating elements/switches/push buttons

**NOTICE**

Install the operating elements in such a way that users cannot stand in hazardous areas.

6.5 Commissioning the door system



Information on the connection and parameter setting of the safety sensors, the inputs and outputs, and commissioning can be found in the wiring diagram.

Creating log book

→ Carry out a safety analysis.

→ Record installed options in the safety analysis for the operator.

6.6 Dismantling

**DANGER****Risk of fatal injury due to electric shock!**

a) The electrical system (230 V/115 V) may only be connected and disconnected by a qualified electrician or a qualified electrician for specified tasks.

b) Carry out mains connection and protective earth conductor test in accordance with VDE 0100 Part 600.

**CAUTION****Danger of injury!**

People can be injured when handling the cover.

a) If the length exceeds 4 metres, the cover must be handled by two people.



CAUTION

Danger of injury due to impact and crushing!

- a) Secure door leaves against accidental movement.
- b) Disconnect rechargeable battery.

Dismantling is done in the reverse order of installation.

7 Service and maintenance

7.1 Toothed belt

The tooth belt must not lift up from the motor gear or skip when braking and accelerating.

- a) If the tooth belt lifts or skips, set the tooth belt tension to $300 \text{ N} \pm 35 \text{ N}$.
- b) For further information, please see Tensioning the toothed belt [► 30]

7.2 Counter-roller

The distance between the counter-roller and the track must be 1 mm.

- a) If the gap is not 1 mm, readjust the counter-roller.
- b) For further information, see Assemble the single-roller carriage to the door leaf (optional) [► 21].

7.3 Maintenance



CAUTION

Danger of injury due to impact and crushing!

- a) Secure door leaves against accidental movement.
 - b) Disconnect rechargeable battery.
 - c) Disconnect mains voltage.
-



NOTICE

Only genuine spare parts may be used. To ensure that the system remains in good working order, wear parts must be checked during every maintenance operation and replaced if necessary.

- The prescribed maintenance work on the sliding door system must only be carried out by a person with expertise.
- The prescribed maintenance work must be carried out once a year or when the service indicator on the programme switch lights up or flashes.
- Depending on the configuration, not all the wear parts listed are present.
- Provide test documents and keep them up-to-date.

Wear parts present	Manufacturer's recommended replacement interval
Rechargeable battery	2 years
Roller carriage/track and track-supporting rollers	1.5 million cycles or 5 years
Cleaning and sealing brushes in the door system	2 million cycles or 5 years
Sealing rubbers	2 million cycles or 5 years
Toothed belt	2 million cycles or 5 years
Floor guide	1 million cycles
Deflection pulleys	2 million cycles or 5 years
Rubber cable	200,000 cycles or 1 year
Deflector for rubber cable	200,000 cycles or 1 year
Cleaning brush at the roller carriage	1 year
End buffer	2 million cycles or 5 years
Wire rope telescopic door	In case of wear or damage
Locking device	In case of wear or damage
Spare part	Manufacturer's recommended replacement interval
Motor gear unit	2 million cycles or 5 years
Cover fixing	In the event of damage



NOTICE

After completing the maintenance work, always execute the learning function for the door.

Maintenance work

Testing facility	Action	Comments
Track	Check for cracks	→ Replace track.
	Check for cleanliness	→ Clean track
Roller carriage	Check the abrasion of the track rollers	→ Remove the abrasion.
	Check brushes	→ Remove the roller carriage (see Exchange the track rollers of the single roller carriage [► 47] or Replacing the track rollers on the double roller carriage [► 45]). → Replace the brush seals (see Replacing the brush seals on a single-roller roller carriage [► 48] or Replacing brushes on double roller carriage [► 46]).
Floor guide area	Check for jarring-free function	→ Clean the floor guide area.
Floor guide area (brushes)	Check for soiling and hardness	→ Clean or replace.
Door leaf	Check for smooth movement	→ See Mechanical faults [► 44].
Toothed belt	Check for wear & tear and damage	→ Replace the toothed belt.
	Check tension	→ Tension the toothed belt (see Tensioning the toothed belt [► 30]).
	Check the toothed belt locking mechanism (optional) for damage	→ Replace the toothed belt.
Toothed belt locking mechanism (optional)	Check function	→ Reposition the toothed belt locking mechanism (optional) (see Position the tooth belt locking mechanism (optional) [► 31]).
Screws	Check for tight fit	→ Tighten the screws (see the drive diagram for torque values).
Assemblies and peripheral equipment	Check for correct function	→ Replace the assembly.
Cables	Check for damage and correct fastening	→ Replace or mount the cable.
Protective cable connections	Check tab connectors for a firm fit	→ If necessary, attach the tab connector.

8 Troubleshooting



DANGER

Risk of fatal injury due to electric shock!

- a) The electrical system (230 V/115 V) may only be connected and disconnected by a qualified electrician or a qualified electrician for specified tasks.
- b) Carry out mains connection and protective earth conductor test in accordance with VDE 0100 Part 600.



CAUTION

Danger of injury with opened drive!

Hair, clothing, cables, etc. can be drawn in by rotating parts. When working on the open drive, watch out for turning parts.



CAUTION

Danger of injury due to impact and crushing!

- a) Secure door leaves against accidental movement.
- b) Disconnect rechargeable battery.

8.1 Mechanical faults

8.1.1 Mechanical faults

Cause	Remedy
Track bent	→ Replace track. → Check the installation surface.
Door leaf is stiff	→ Check the door leaf.
Roller carriage jammed or defective, high abrasion on the track rollers	→ Check toothed belt at driver for perpendicular fit. → Guide toothed belts so that they are parallel. → Replace roller carriage.
Toothed belt damaged	→ Replace the toothed belt.
Assembly group defective	→ Replace the assembly.

8.1.2 Checking the door leaves

- Disconnect the moving leaf from the toothed belt using the driver.
- Move door leaves and check for ease of movement.

If door leaves move easily:

- Check the motor gear unit and replace it if necessary.

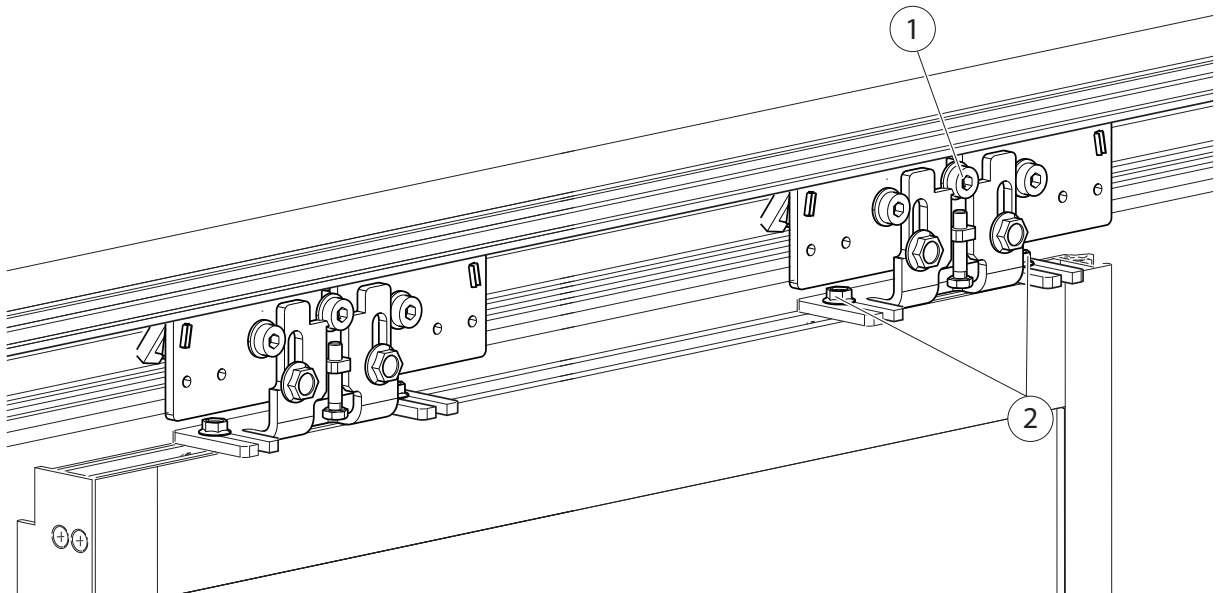
8.1.3 Swap the double roller carriage



WARNING

Danger of injury caused by door leaves falling over!

Always release the roller carriages one at a time – never all at once.



- Secure the moving leaf against falling and remove load from the roller carriage.
- Separate driver from roller carriage if necessary.
- Loosen the screw (1) of the counter-roller.
- Remove both screws (2).
- Remove the roller carriage.
- Insert the new roller carriage and assemble it to the leaf using both screws (2).
 - Torque 15 Nm
- Adjust the counter-roller and tighten the screws (1).
 - Torque 30 Nm

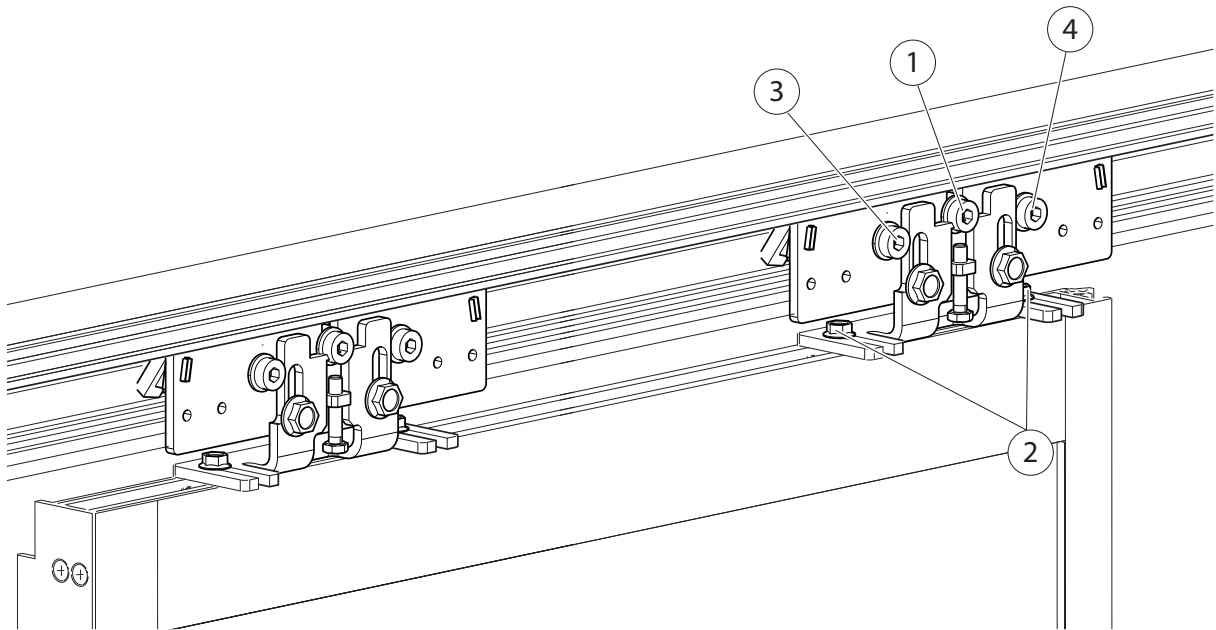
8.1.4 Replacing the track rollers on the double roller carriage



WARNING

Danger of injury caused by door leaves falling over!

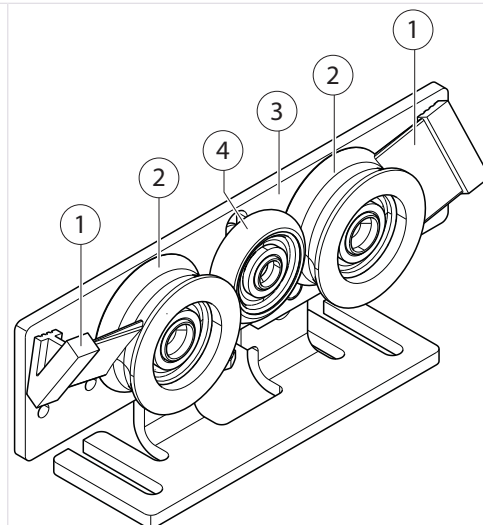
Always release the roller carriages one at a time – never all at once.



- Secure the moving leaf against falling and remove load from the roller carriage.
- Loosen the screw (1) of the counter-roller.
- Loosen the screw (2) slightly.
- Replace the track roller (3).
 - Torque 30 Nm
- Replace the track roller (4).
 - Torque 30 Nm
- Retighten the screws (2).
 - Torque 15 Nm
- Readjust the counter-roller (1) and tighten it.
 - Torque 30 Nm
- Check the roller carriage for proper running and adjust if needed.

8.1.5 Replacing brushes on double roller carriage

- Secure door leaves against falling.
- Remove door leaf if necessary and tip.
- Pull brushes (1) out of pulley holder (3).
- Clean rollers (2) and insert new brushes.
- Hook door leaf in again and adjust it.
- Adjust the counter-roller (4) and tighten the screws.
 - Torque 30 Nm



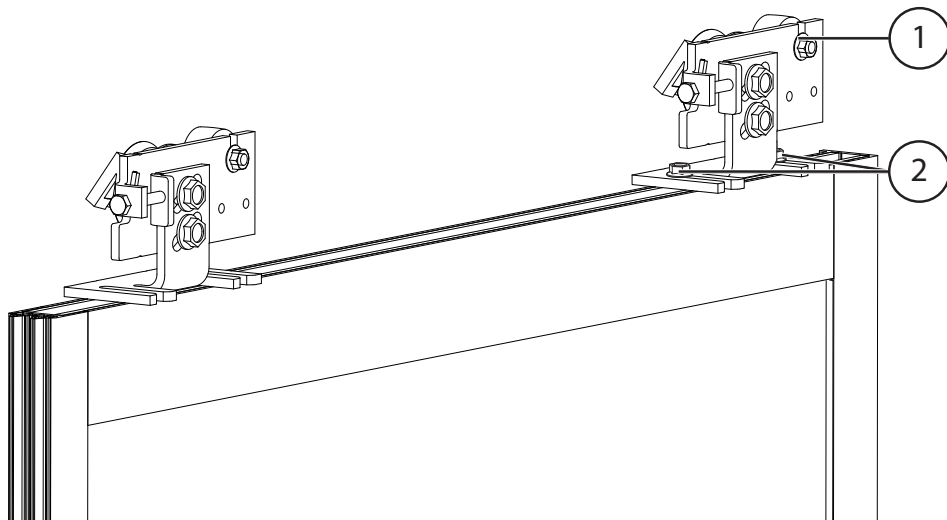
8.1.6 Replacing the single roller carriage



WARNING

Danger of injury caused by door leaves falling over!

Always release the roller carriages one at a time – never all at once.



- Secure the moving leaf against falling and remove load from the roller carriage.
- Separate driver from roller carriage if necessary.
- Loosen the nut (1) on the counter-roller.
- Remove both screws (2).
- Remove the roller carriage.
- Insert the new roller carriage and assemble it to the leaf using both screws (2).
 - Torque 15 Nm
- Adjust the safety roller and tighten the screws (1).
 - Torque 19 Nm

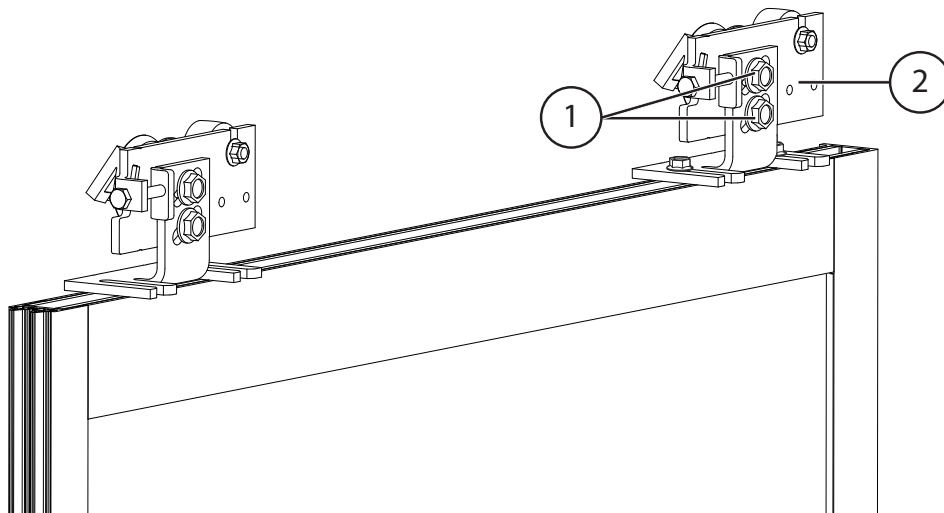
8.1.7 Exchange the track rollers of the single roller carriage



WARNING

Danger of injury caused by door leaves falling over!

Always release the roller carriages one at a time – never all at once.



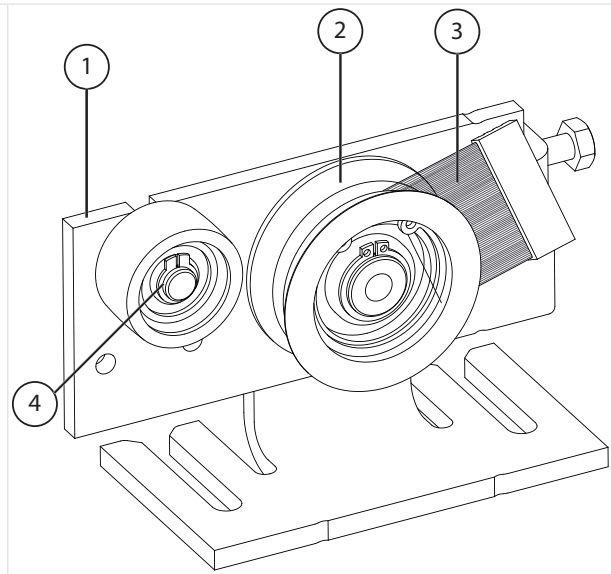
- Secure moving leaf against falling.
- Separate driver from roller carriage if necessary.
- Loosen screws (1).
- Pull out bracket support (2) and track roller to the side.
- Replace track roller and install a new one.
- Adjust the parallel alignment and height of the moving leaves.
- Tighten screws (1).

– Torque 42 Nm

8.1.8 Replacing the brush seals on a single-roller roller carriage

- Secure door leaves against falling.
- Remove the roller carriage if necessary.
- Pull brush (3) out of support bracket (1).
- Clean roller (2) and insert new brush.
- Reinstall roller carriage in reverse order.
- Adjust the safety roller (4) and tighten the screws.

– Torque 19 Nm



8.2 Electrical faults



For read-out instructions and a list of fault messages, see wiring diagram.

8.2.1 Replacing fuse in transformer



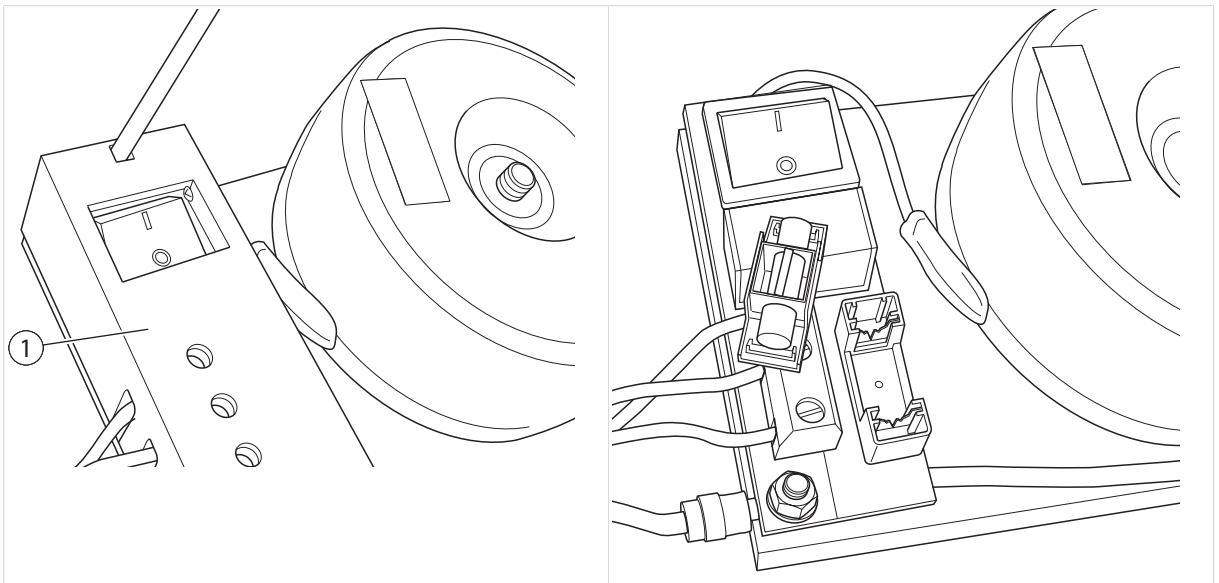
DANGER

Risk of fatal injury due to electric shock!

If the main switch on the transformer is activated, the fuse is still energised since it is upstream of the main switch.

The mains voltage 230 V must be disconnected from the mains upstream of the fuse.

- a) Disconnect the system from the 230 V mains supply on site before removing the PCB cover (1) and secure against being switched back on again.



- Insert a suitable screwdriver into the opening of the PCB cover (1) above the switch.
- Carefully press the end wall of the PCB cover upward with the tip of the screwdriver.
 - This releases the snap catch.
- Remove the PCB cover (1).
- Pull the fuse holder forwards and off and replace the defective fuse.
- Attach the fuse holder.



NOTICE

Do not trap the cable when setting the cover in place.

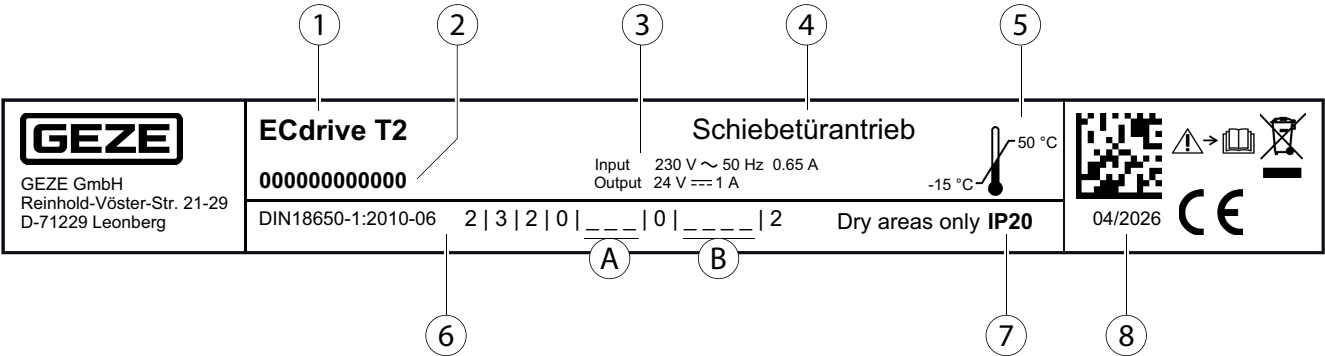
- Set the PCB cover (1) in place and clip on.

9 Product labelling



Applicable only in Germany and within the scope of validity of DIN 18650. The nameplate shown is an example and is provided for guidance only.

→ Supplement classification code on the nameplate.



1	Product name	2	Serial number
3	Electrical data	4	Machine category
5	Ambient temperature	6	Only relevant in Germany and within the scope of validity of DIN 18650: Classification code
7	IP rating	8	Date of manufacture

A: Safety devices on the drive (fifth digit)	B: Safety of automatic door systems – design/ installation (seventh digit)
A distinction is made between three classes in terms of safety requirements: 1: Power limitation; 2: Connection to external safety systems approved by the drive manufacturer; 3: Low-energy mode. Note: You may select multiple classes.	A distinction is made between five classes of safety devices on door leaves: 0: no safety devices; 1: with sufficiently large safety distances 2: with protection against crushing, shearing and fingers getting caught; 3: with built-in turning fitting unit; 4: with sensory protective devices. Note: You may select multiple classes.

10 Inspection of the installed system

10.1 Protective measures to prevent and protect from hazardous areas

- Check protective earth connection to all metal parts that can be touched.
- Perform a safety analysis (risk analysis).
- Check the function of safety sensors and movement detectors.

10.2 ECdrive T2 assembly checklist

No.	Test	In chapter	On page	Done
1	All cables routed correctly for installation of the ECdrive T2?	-	-	
2	Track mounted?	5.4 [► 17]	17 [► 17]	
3	Angled floor guide/continuous floor guide installed?	5.6 [► 19]	19 [► 19]	
4	Door leaf assembled with single roller carriage?	5.7.1 [► 21]	21 [► 21]	
5	Door leaf assembled with double roller carriage?	5.7.2 [► 24]	23 [► 24]	
6	Drive components installed?	5.8 [► 28]	28 [► 28]	
7	Tooth belt mounted?	5.8.2 [► 29]	29 [► 29]	
8	Closing position with 2-leaf System adjusted?	5.8.4 [► 30]	30 [► 30]	
9	Left and right module mounts connected to the power supply?	5.8.1 [► 28]	28 [► 28]	
10	Is the toothed belt locking (optional) connected to the control?	5.8.9 [► 33]	32 [► 33]	
11	Safety devices mounted?	6.3 [► 39]	38 [► 39]	
12	Switches/push buttons installed?	6.4 [► 39]	38 [► 39]	
13	Programme switch installed?	6.4 [► 39]	38 [► 39]	
14	Transformer earthing installed?	5.8.10 [► 33]	32 [► 33]	
15	Earthing connections established?	-	-	
16	230 V connection established?	6.1 [► 34]	33 [► 34]	
17	Cover earthing connected?	6.2.5 [► 38]	37 [► 38]	
18	Cover fixing mounted?	6.2.2 [► 36]	35 [► 36]	
19	Cover catch mounted?	6.2.4 [► 37]	36 [► 37]	
20	Safety devices mounted?	6.3 [► 39]	38 [► 39]	
21	Additional switches and push buttons mounted?	6.4 [► 39]	38 [► 39]	
22	Safety analysis carried out?	-	-	
23	Deviations of the system checked in accordance with safety analysis?	-	-	

No.	Test	In chapter	On page	Done
24	Are all components mounted in accordance with the following instructions:	-	-	
25	→ Pre-installation instructions ECdrive T2	-	-	
26	→ ECdrive T2 installation instructions – Girder section and side screen	-	-	
27	→ Pre-installation and installation instructions GCtherm – fanlight	-	-	
28	→ Pre-mounting instructions profile system leaves and side panel	-	-	
29	Addition to the type plate of the sliding door drive complete? Notes: → Applicable only in Germany and within the scope of validity of DIN 18650 → The type plate may only be attached to the sliding door drive if the assembly is checked for correct implementation according to GEZE specifications and using the check.	9 [► 50]	49 [► 50]	

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