

GEZE MCRdrive

MCR profile system and
drive system

193098 V00 09/2023

EN Installation and service instruc-
tions



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1 Introduction

1.1 Symbols and illustrations

Warning notices



In these instructions, warning notices are used to warn against material damage and injuries.

- ▶ Always read and observe these warning notices.
- ▶ Observe all the measures that are marked with the warning symbol and signal word.

Warning symbol	Warning	Meaning
	DANGER	Danger to persons. Non-compliance will result in death or serious injuries.
	WARNING	Danger to persons. Non-compliance can result in death or serious injuries.
	CAUTION	Danger to persons. Non-compliance can result in minor injuries.

Further symbols and means of representation

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

Symbol	Meaning
	means "important note" Information to prevent property damage, to understand or optimise the operation sequences.
	means "additional information"
▶	Symbol for an action: This means you have to do something.
☐	If there are several actions to be taken, keep to the given order.

1.2 Reference documents

Type	Name
Wiring diagram	160924 Automatic sliding doors DCU1-NT
Additional wiring diagram	164883 DCU1-NT-OP
User manual	193098 Installation and service instructions
Safety analysis	187393 Safety analysis sliding doors EN16005 DE
Production drawings	200772 Inst.-DWG; SET; MCR

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

2 Basic safety notes

2.1 Intended use

The sliding door system is used for the automatic opening and closing of a building passage.

The sliding door system may only be used in a vertical type of installation and in dry rooms within the permitted application area.

The sliding door system is designed for pedestrian traffic in buildings.

The sliding door system is not designed for the following uses:

- for area of application which do not serve pedestrian traffic (such as garage doors)
- on mobile objects such as ships

The sliding door system may only be used:

- in the modes of operation provided for by GEZE
- with the components approved / released by GEZE
- with the software delivered 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 non-intended and will lead to the exclusion of all liability and warranty claims to GEZE.

2.2 Safety-conscious working

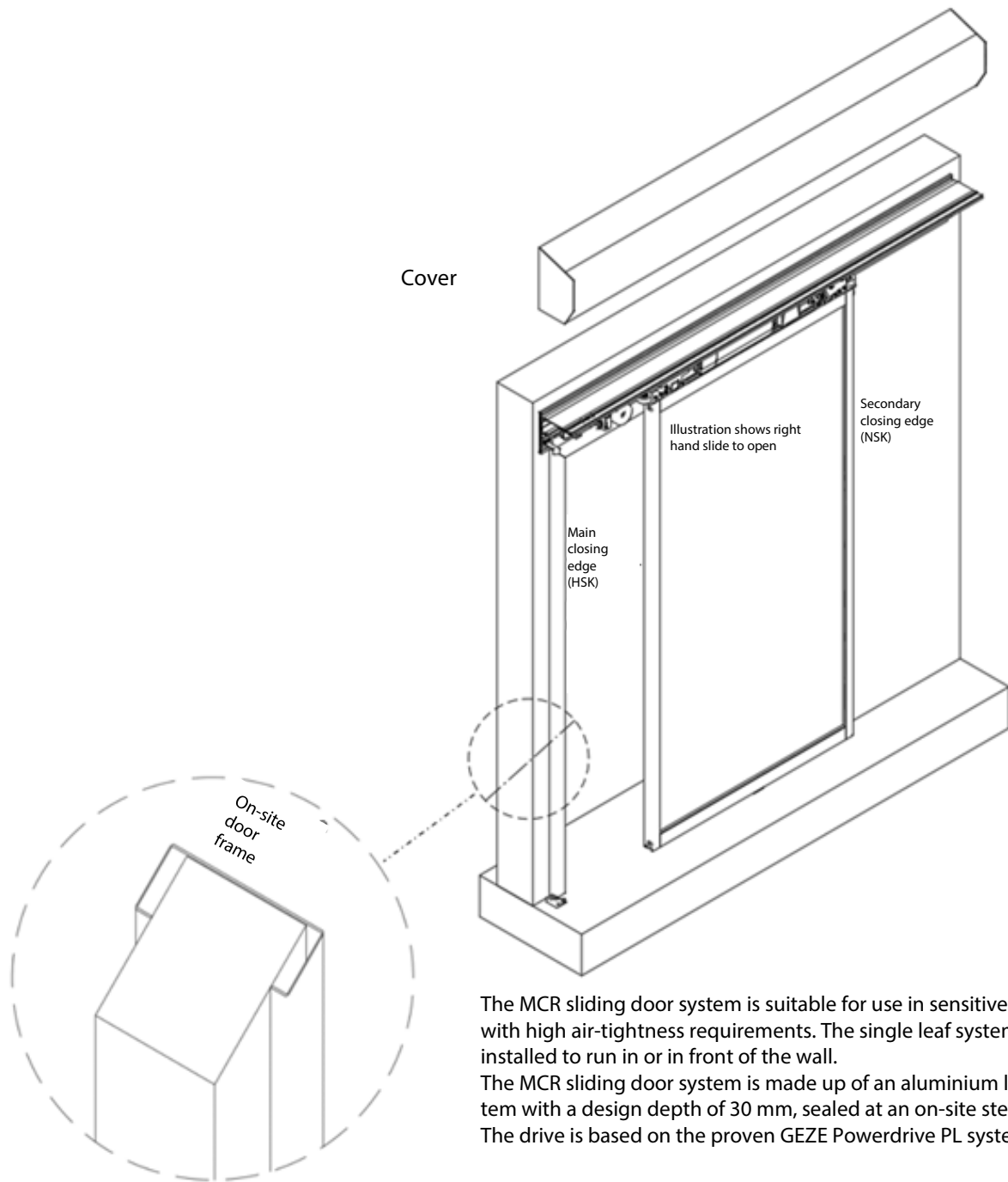
- Secure workplace against unauthorised entry.
- Watch the swivelling range of long system parts.
- Always work with a second person.
- Use a stepladder or stepstool with test seal.
- Never carry out work with a high safety risk (e.g. installing the drive, drive cover or door leaf) while alone.
- Secure the drive cover/drive panels against falling.
- Secure non-fixed components to prevent them falling.
- Use only the cables specified on the cable plan provided. Cables must be shielded in compliance with 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 caused by unsecured crushing, impact, drawing-in or shearing spots.
- 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.

2.3 Environmentally conscious working

- When disposing of the door system, separate the different materials and have them recycled.
- Comply with the statutory regulations when disposing of the door system and the batteries/rechargeable batteries.

3 Product overview

These instructions describe the installation of the automatic sliding door system of the MCR type.



The MCR sliding door system is suitable for use in sensitive areas with high air-tightness requirements. The single leaf system can be installed to run in or in front of the wall.


The MCR sliding door system is made up of an aluminium leaf system with a design depth of 30 mm, sealed at an on-site steel frame. The drive is based on the proven GEZE Powerdrive PL system.

4 Installation


4.1 Tools and aids required

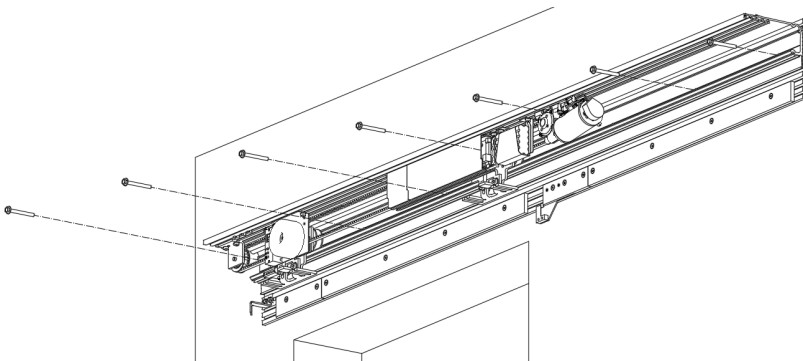
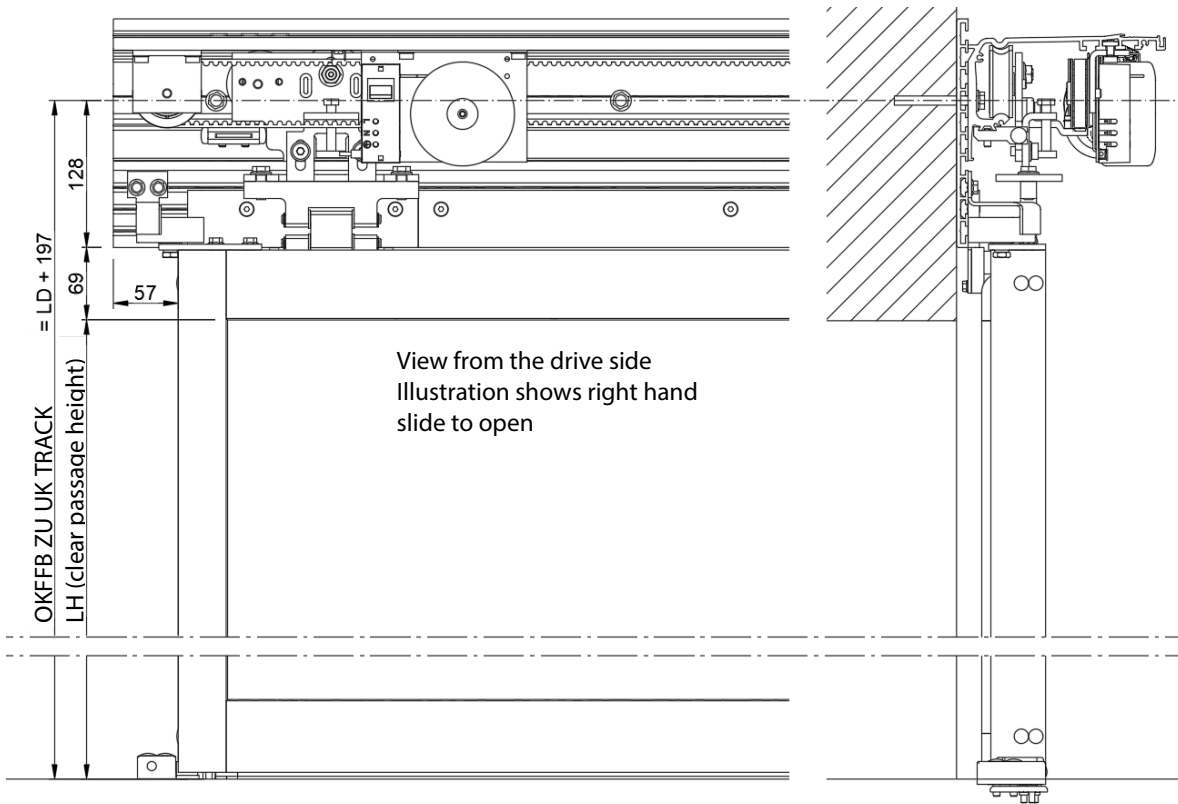
Tool
Tape measure
Marking pen
Torque spanner
Allen key
Open-ended spanner
Screwdriver set
Side-cutting pliers
Crimping pliers for cables
Wire stripper
Multimeter
Display programme switch/Service terminal ST220/GEZEconnect

4.2 Preparations to be made on-site

-  ▶ Installation material is not included in the scope of delivery and must be chosen suitable for the substrate and the static load.
- ▶ Check the preparations made on-site by the customer to ensure proper installation:
 - ▶ Check the type and load capacity of the façade construction or suspending frame
 - ▶ Check that the installation surface is level
 - ▶ Check that the finished floor is level
 - ▶ Check the requirements of the wiring schematic
 - ▶ Check the on-site door frame against the GEZE specification drawing

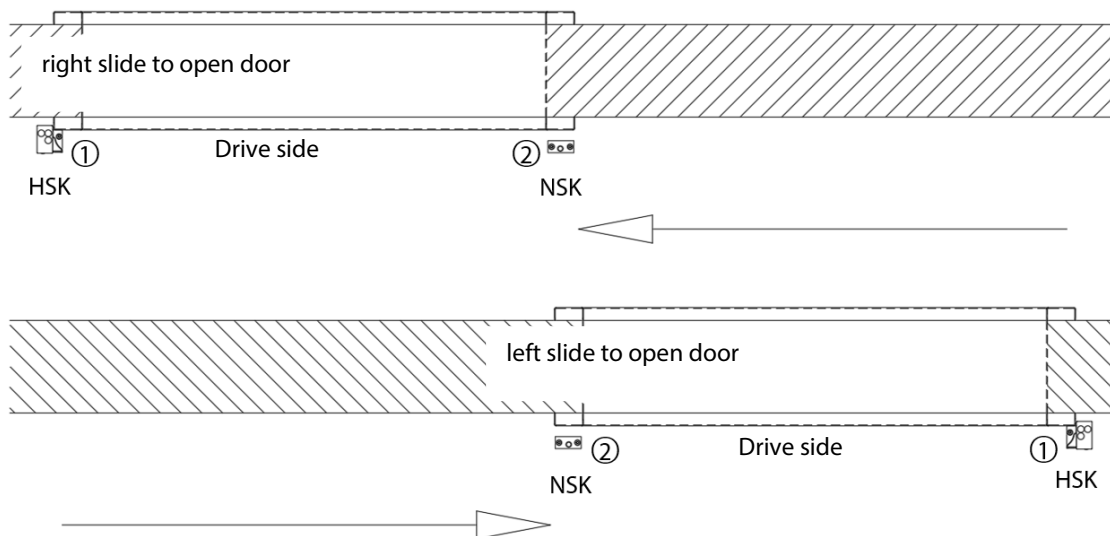
4.3 Installing the drive unit

-  ▶ Protect the running surface against damage and soiling. Remove any soiling after installation.
-
- ▶ Mark the fastening drill holes for the drive unit (see dimension specifications on the drawing).



- ▶ Drill fastening drill holes in the wall. (If necessary, the components installed in the track may have to be moved to carry out the drilling work)
- ▶ Take unevenness of wall and floor into account.
- ▶ Install the drive unit using suitable screws.

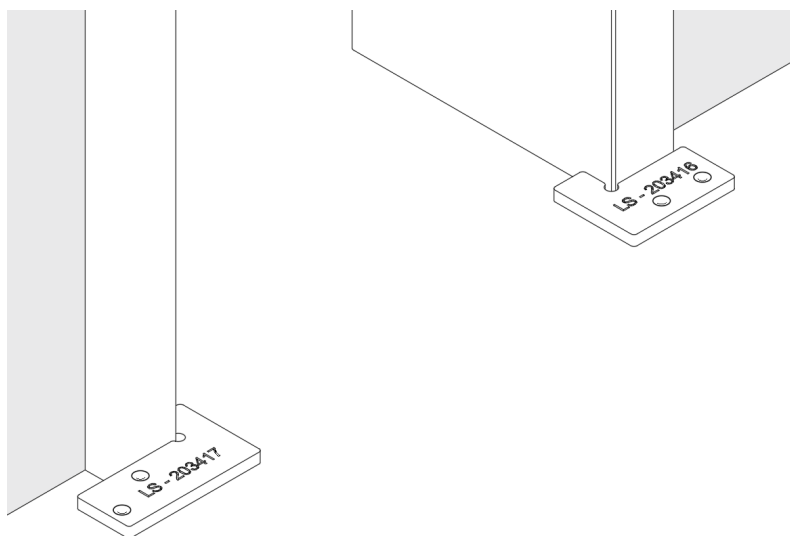
4.4 Installing the floor guide points



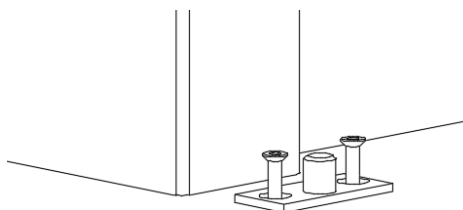
Drilling templates

- ① Main closing edge, right slide to open door - 203417
- ② Secondary closing edge, right slide to open door - 203416
- ① Main closing edge, left slide to open door - 203417
- ② Secondary closing edge, left slide to open door - 203416

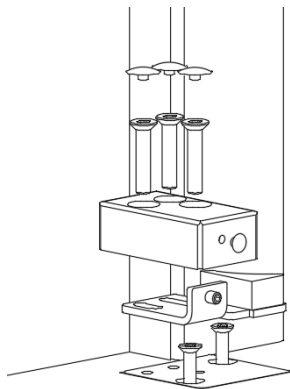
- ▶ Place the drilling template on the frame and drill through it.



- ▶ Install the bolt guide secondary closing edge using suitable fasteners.



- ▶ Install the main closing edge stopper using suitable fasteners.

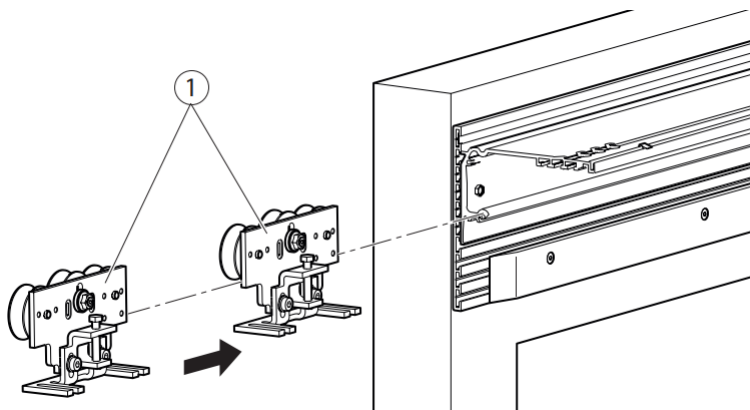


4.5 Installing the moving leaf



If roller carriages are not factory-fitted, carry out step 4.5.1.

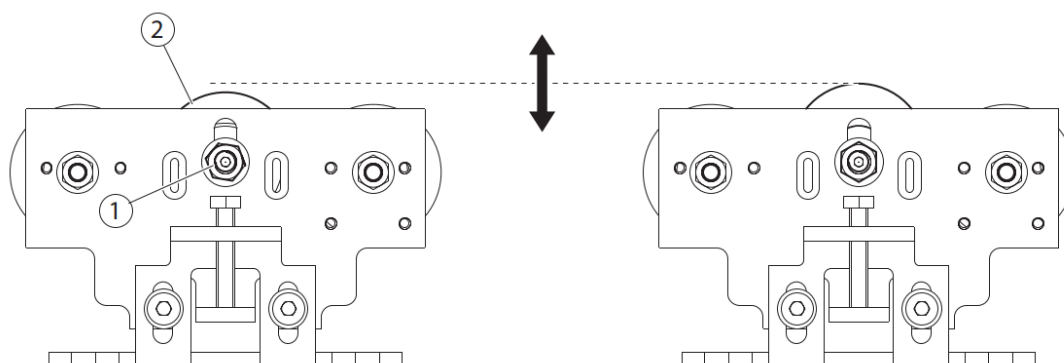
4.5.1 Inserting roller carriage into the track



- ▶ Move both roller carriages (1) into the track at the side.

Adjusting the counter-roller

The counter-roller (2) must have a vertical clearance of approx. 0.5 mm to the track.



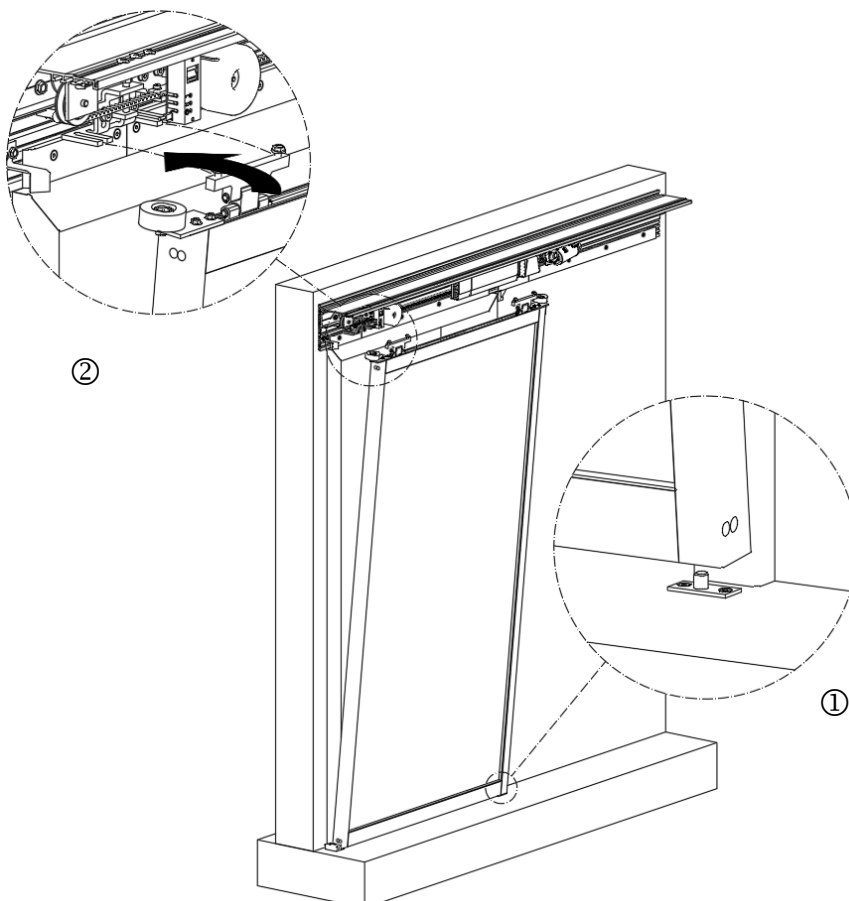
- ▶ Undo locknut (1).
- ▶ Move the counter-roller (2) until there is a clearance of 0.5 mm to the track.
- ▶ Tighten the locknut (1) again (tightening torque 30 Nm).

4.5.2 Fitting the moving leaves

**WARNING!**

Danger of injury caused by moving leaves falling over.

- ▶ At least 2 people should work together to set up the moving leaves.



- ① Set the moving leaves with integrated floor guide on the floor guide bolt.
- ② Hook the joints into the roller carriages on the drive, tighten screws.

4.5.3 Adjusting the moving leaves

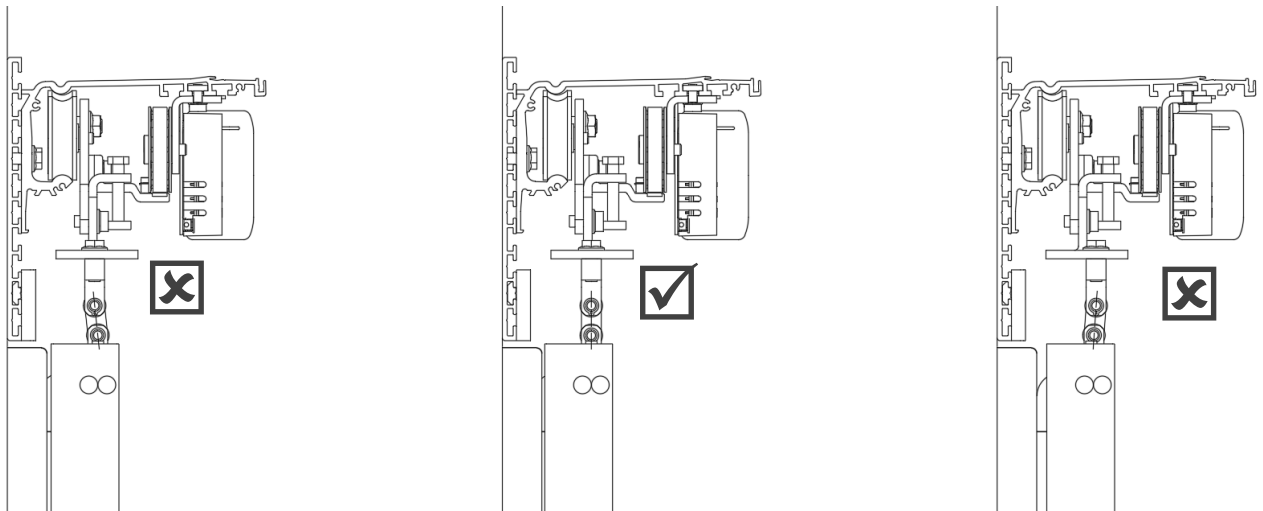


WARNING!

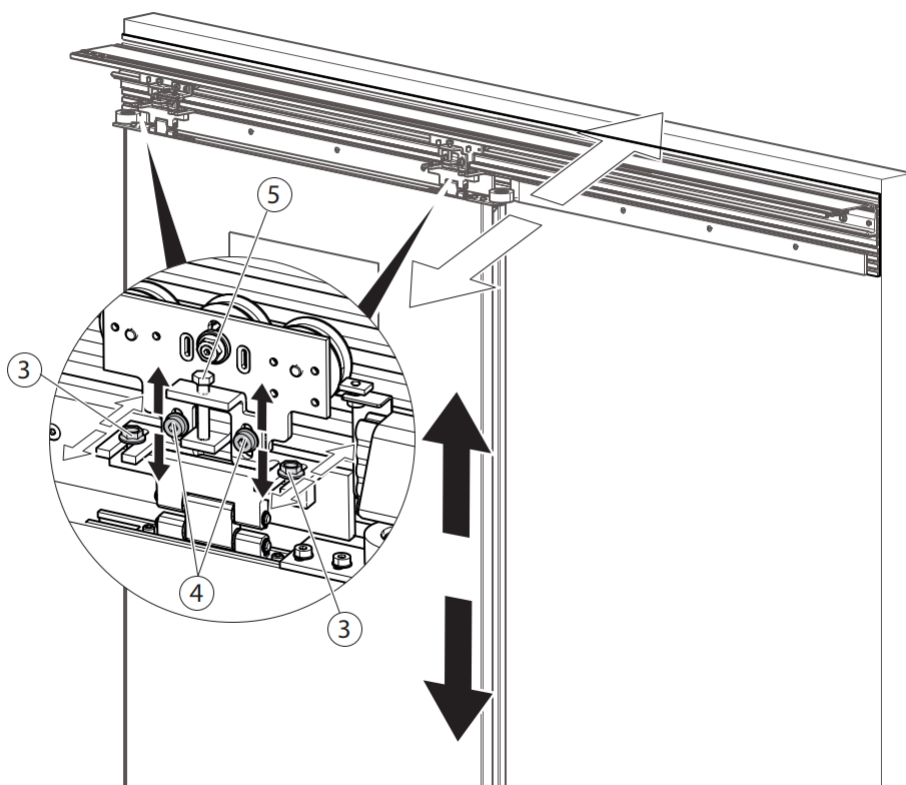
Danger of injury caused by crushing!

The moving leaves are still unsecured and move easily.

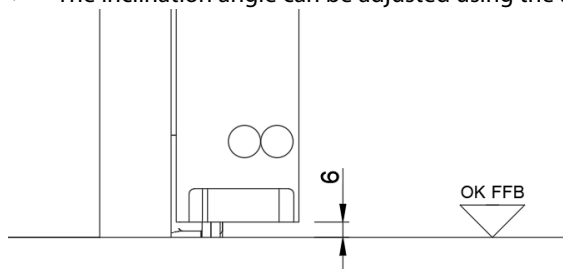
- ▶ Secure the moving leaves to prevent unintentional movement or movement by unauthorised persons.



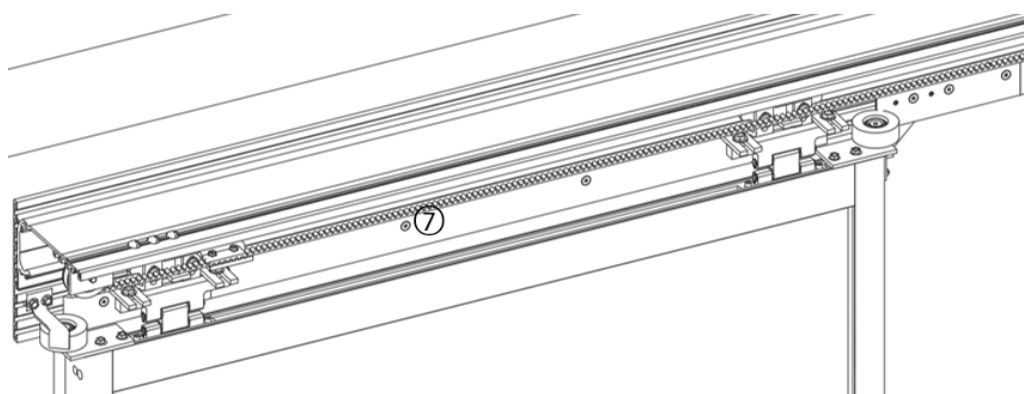
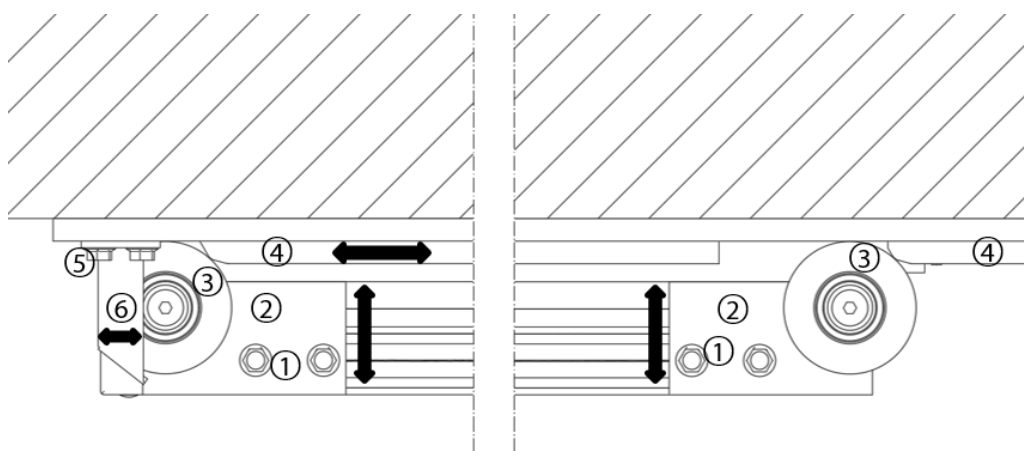
- ▶ Position the joint of the moving leaf in the roller carriage in such a way that the leaf with the seal lies evenly against the frame.



- ▶ The inclination angle can be adjusted using the adjustment screws ③.



- ▶ Set the height of the moving leaf using the adjustment screws (4) and (5). When the leaf is closed, the gap between the finished floor and the lower edge of the leaf is 6 mm.
- ▶ After adjusting the moving leaf, tighten screws (3) and (4) (tightening torque of the screw (4) = 15 Nm).



Setting guide rollers

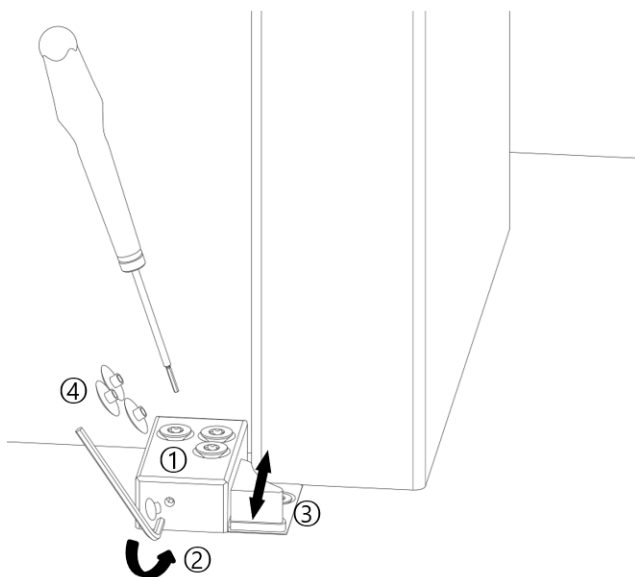
- ▶ Undo the screws of the guide rollers (1).
- ▶ Move the pulley holders (2) in such a way that the guide roller (3) rests against the ramp (4).
- ▶ Tighten screws (1).

Setting the point top main closing edge stopper

- ▶ Undo the screws of the stopper (5).
- ▶ Slide the stopper (6) against the guide roller (3).
- ▶ Tighten screws (5).

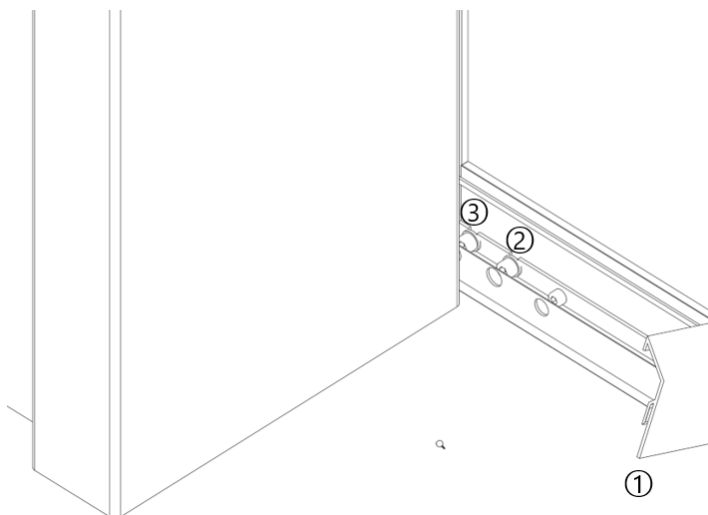
Adjusting the ramps

- ▶ Undo the screws of the ramps (7).
- ▶ Slide the ramps (4) against the guide rollers (3). There must be a clearance of about 1 mm to the guide roller.
- ▶ Tighten screws (7).

**Bottom main closing edge stopper**

To increase the contact pressure of the leaf:

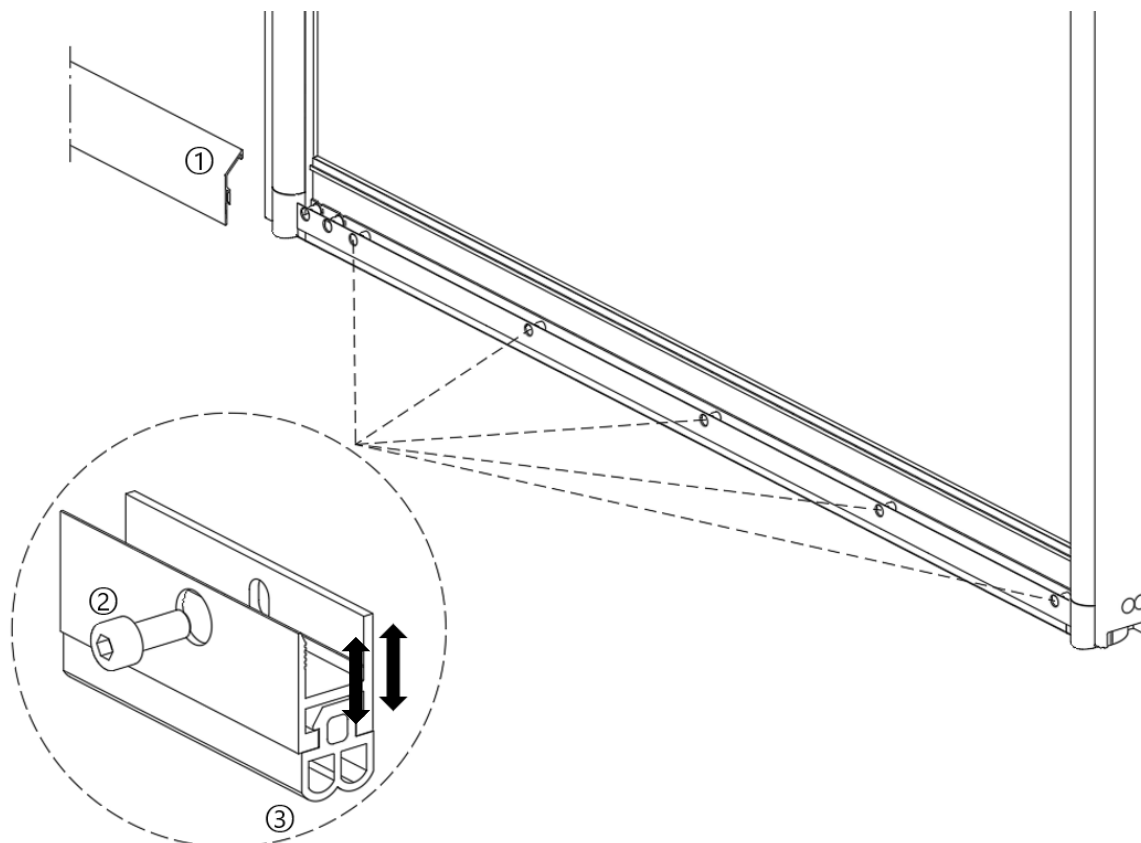
- ▶ Undo the top three screws (1).
- ▶ Adjust the run-in part (3) by turning the front side screw (2).
- ▶ Tighten the top three screws (1). Press the cover caps (4) back onto the screws.



Bottom secondary closing edge stopper

To increase contact pressure of the leaf:

- ▶ Press the cover profile (1) (on the opposite side to the drive) upwards and remove it
- ▶ Set the contact pressure by undoing and tightening the two adjustment screw (2 / 3).
 - ▶ Screw (3) adjustable from the drive side with the door opened
- ▶ Install the cover profile (1).

**Height adjustment of the floor profile**

- ▶ Press the cover profile (1) (on the opposite side to the drive) upwards and remove it.
- ▶ Carry out adjustment with the door closed. Undo the screws (2) at the oblong holes, press the profile with seal (3) down slightly so that it seals on the floor.
- ▶ Tighten the screws (2).
- ▶ Install the cover profile (1).



If driver and toothed belt are not factory-fitted, carry out steps 0 to 4.6.2.

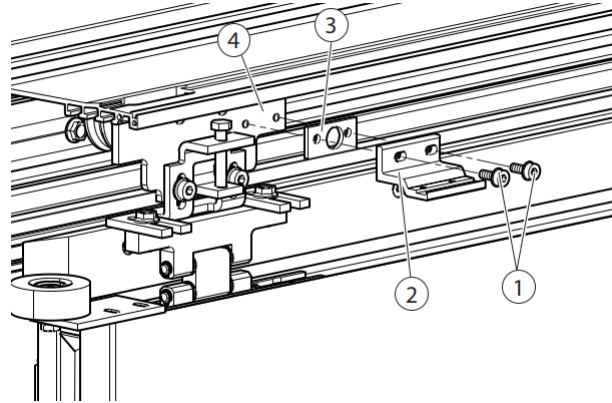
4.5.4 Installing the driver



The driver...

- must not touch any obstacle over the entire travel path.
- is installed on the left-hand roller carriage.

- ▶ The driver assembly (2 and 3) is fastened to the roller carriage (4) using two screws (1) (tightening torque 6 Nm).



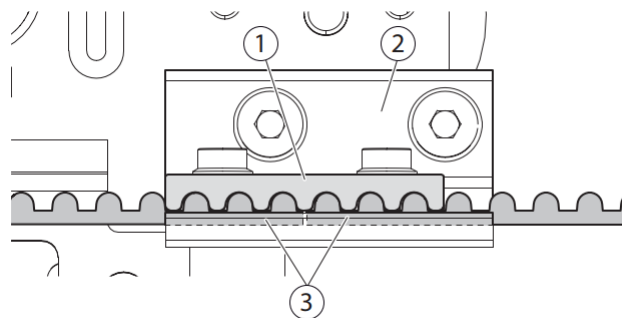
4.6 Installing the drive components

4.6.1 Fitting the toothed belt

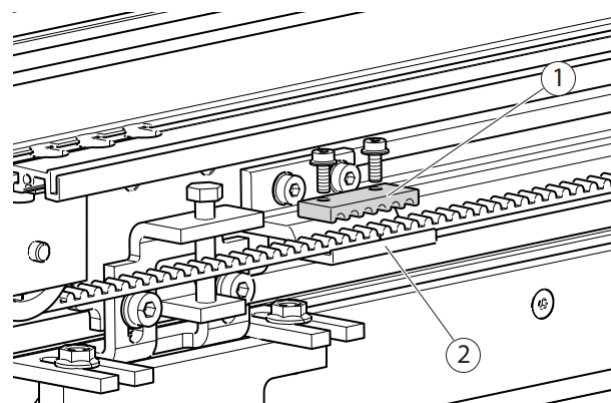
- ▶ Cut the toothed belt to length.
- ▶ Place the toothed belt on the motor pulley and deflection pulley.

4.6.2 Fitting the toothed belt to the driver

- ▶ Place the toothed belt locking (1) on the ends of the toothed belt (3) (three teeth per lock).



- ▶ Screw the toothed belt locking (1) to the driver (2) (tightening torque 6 Nm).

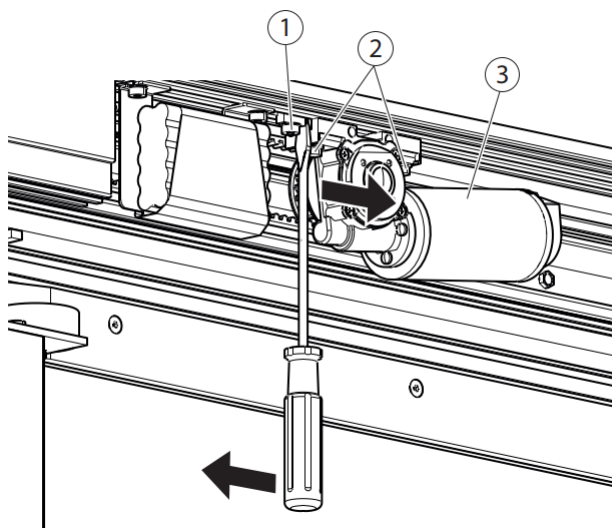


4.6.3 Tensioning the toothed belt



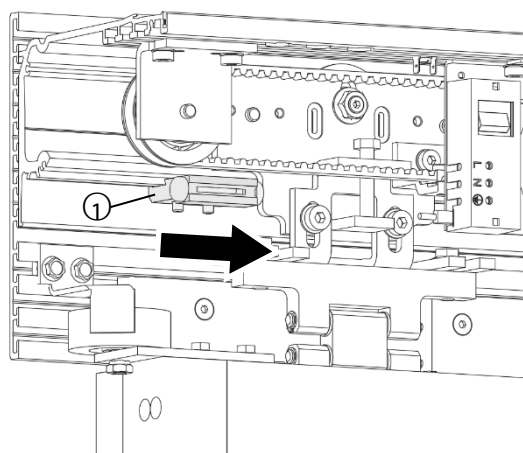
- ▶ The toothed belt must be pre-tensioned with $300\text{ N} \pm 50\text{ N}$.

- ▶ Undo the two screws (2) at the motor gear unit.
- ▶ Slide the motor gear unit (3) to the right by hand so that the toothed belt does not sag.
- ▶ Undo the screw (1) and move the sliding block in such a way that a slot-head screwdriver can be pushed between the sliding block and the motor gear unit.
- ▶ Tighten the screw (1) on the sliding block (tightening torque 10 Nm).
- ▶ Push the slot-head screwdriver into the gap and lever it until the toothed belt is tensioned.
- ▶ Retighten both screws on the motor gear unit (2) (tightening torque 15 Nm).



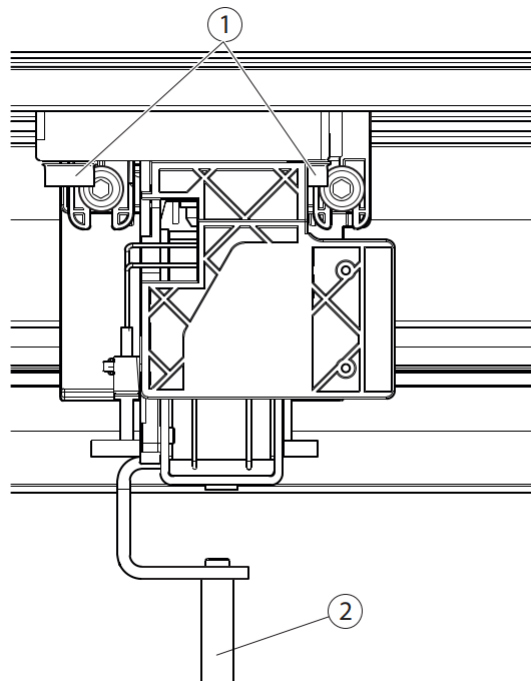
4.6.4 Setting the stop buffer

- ▶ Undo the set screws on the stop buffers (1).
- ▶ Slide the stop buffers against the roller carriage as follows: front stop buffer in closed leaf position, rear stop buffer in open leaf position.
- ▶ Tighten the set screws (tightening torque 5 Nm).



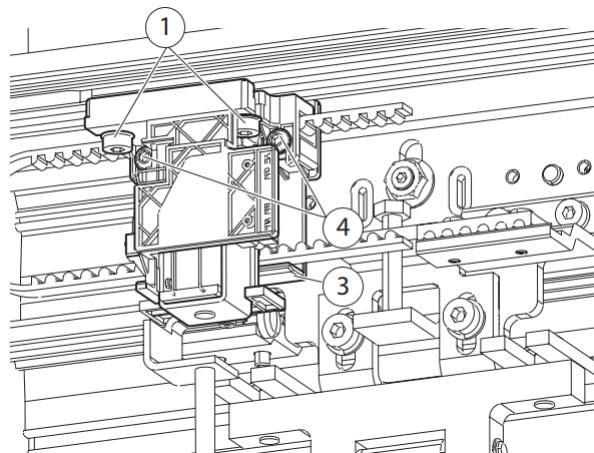
4.6.5 Optional: positioning toothed belt locking mechanism

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



Following installation the locking pin (2) must be positioned above the hole in the drive cover so that it can be locked and unlocked.

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



The driver must not come into contact with the toothed belt locking mechanism (optional) during operation.



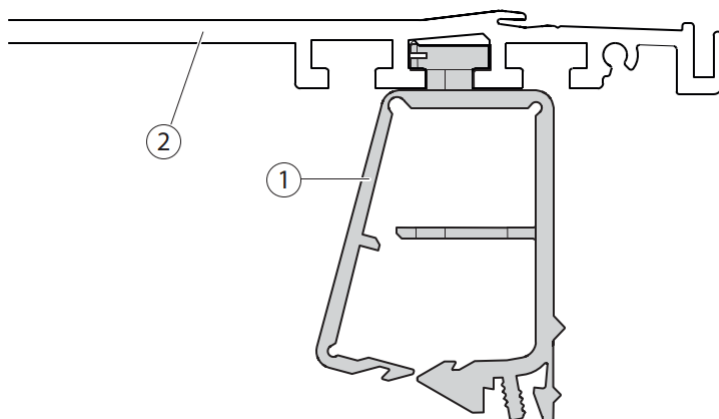
After the toothed belt has been installed, check (click) the switching points of the indicator switches of the toothed belt locking mechanism (optional). Adjust by bending the switching lugs if necessary.

4.6.6 Installing cable guides

**Cables can be cut!**

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

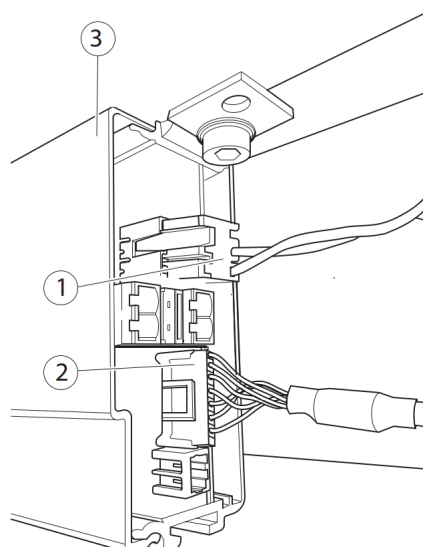
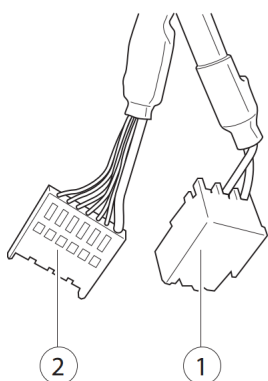
- ▶ Cable guide spacing approx. 200 mm.



- ▶ Fix the cable guide (1) on the track (2).

4.7 Cabling the drive components

4.7.1 Connecting motor gear unit and control unit



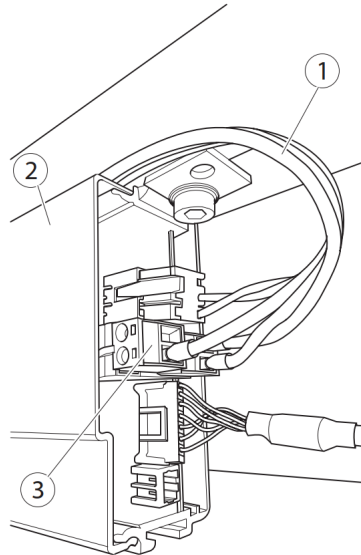
- ▶ Route the rotary transducer cable (2) and motor connection cable (1) to the control unit (3).
- ▶ Insert the connector into the control unit (3).

4.7.2 Connecting transformer and control unit

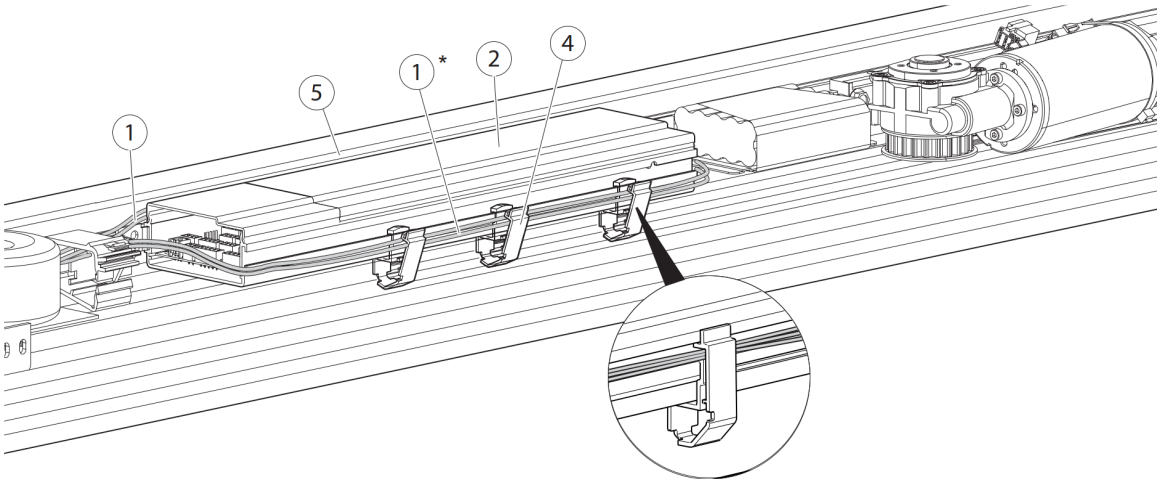


- ▶ Shorten cables and lay them in such a way that they do not become jammed when the drive cover is positioned and cannot come into contact with moving components.

- ▶ Cut the three-strand transformer cable (1) to length.
- ▶ Strip at both ends and attach insulated wire end ferrules.
- ▶ Attach the two connectors (3) on the control side (2).
- ▶ Insert the connectors (3) at the control unit (2).



- Note earthing connection.
- Do not mix up wires.

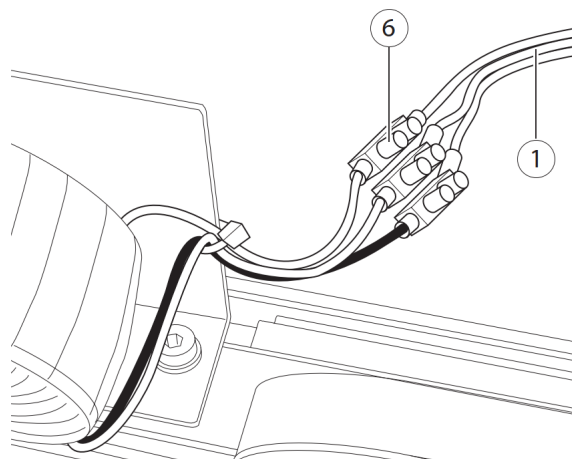


- ▶ Fix the cable guide DCU (4) to the control unit.
- ▶ Route the transformer cable (1) between the control unit (2) and track (5).



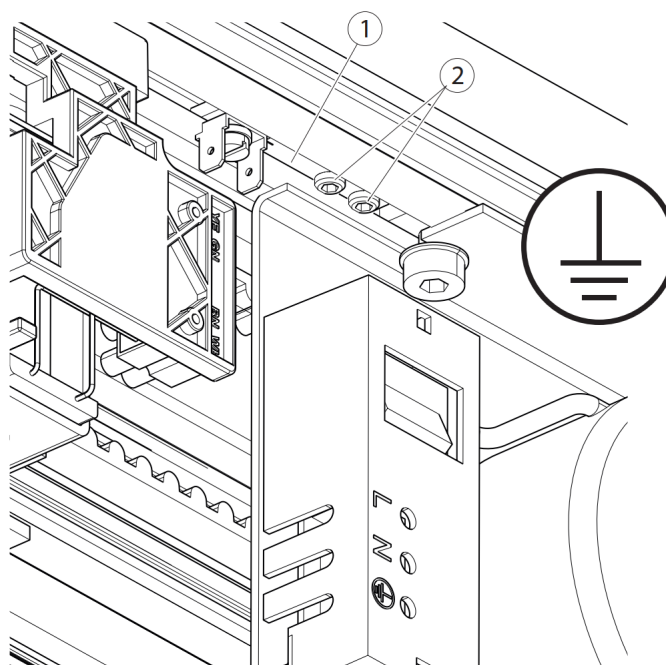
* Alternatively, the transformer cable (1) can be attached to the front of the control unit.

- ▶ Fit the transformer cable (1) to the terminal (5) of the transformer.



4.7.3 Installing transformer earthing

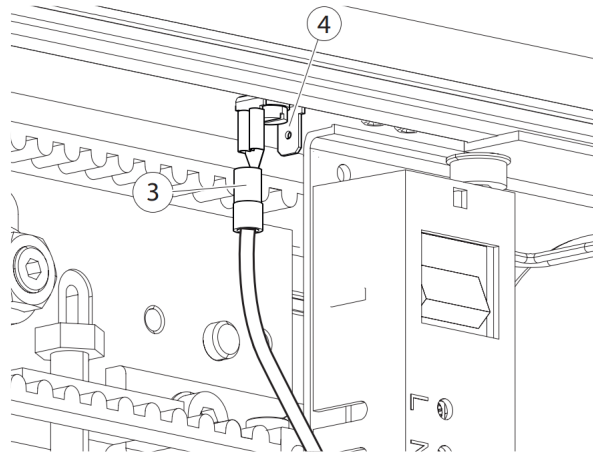
- ▶ Slide the earthing jumper (1) to its final position.
- ▶ Tighten two Allen screws (2) (tightening torque 4 N).



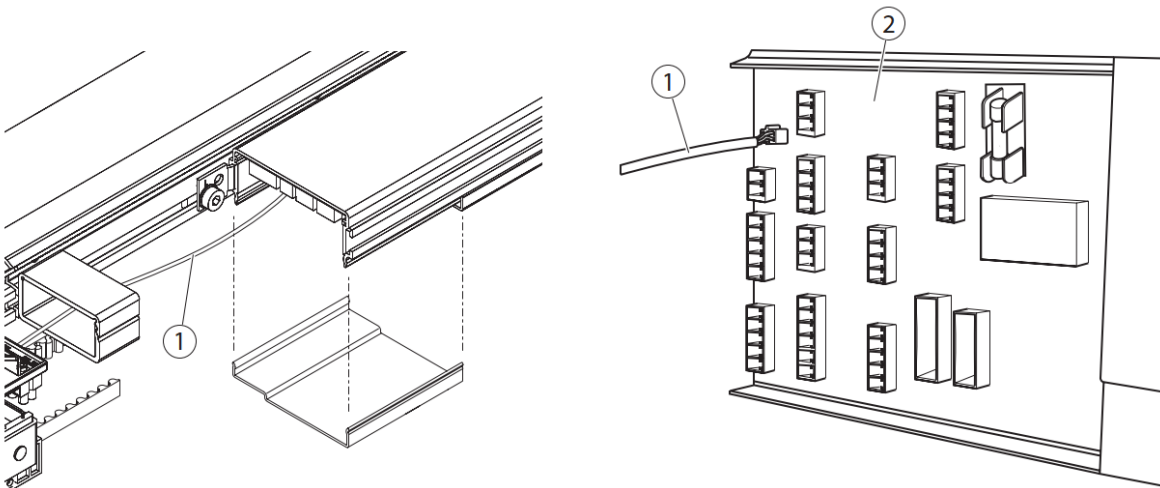
The track is not earthed if there is a poor connection between earthing jumper (1) and track.

- ▶ Check whether the set screws (2) of the earthing jumper (1) pierce the anodised layer of the track.

- ▶ Connect the earthing cable (3) from the transformer using the device flat plug (4).

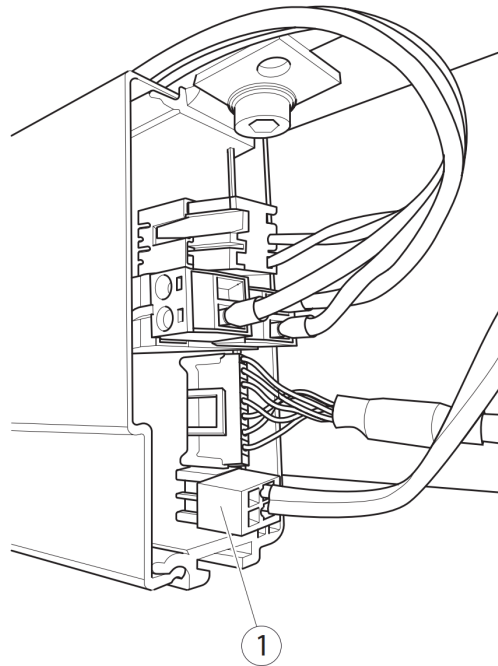


4.7.4 Connecting the toothed belt locking mechanism and control unit



- ▶ Plug the cable of the toothed belt locking mechanism (1) in at the control unit (2).
- ▶ Route the cable to the toothed belt locking mechanism.

4.7.5 Connect rechargeable battery and control unit

**CAUTION!****Danger of injury due to impact and crushing!****When the rechargeable battery cable (1) is plugged in, the pulley on the motor gear unit can move unexpectedly.**

- ▶ Do not reach into the area with moving parts.

- ▶ Check whether the rechargeable battery cable (1) is long enough.
- ▶ If necessary, plug the rechargeable battery extension cable to the rechargeable battery cable.
- ▶ Lay rechargeable battery cable (1) to the control unit.
- ▶ Insert the connector into the control unit.

5 Production test and commissioning

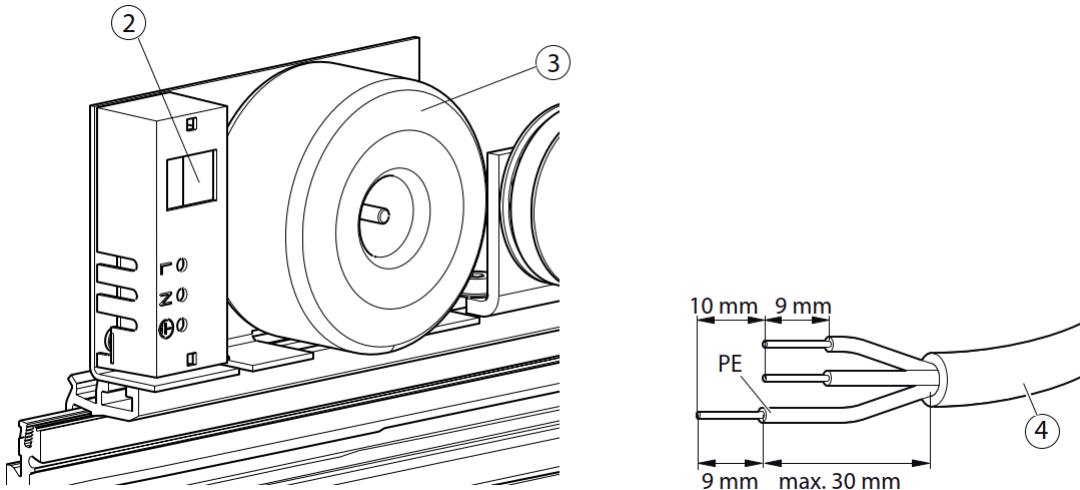
5.1 Connecting the drive



WARNING!

Danger of fatal injury through electric shock.

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



- ▶ Strip the mains supply cable (4) as shown.
 - ▶ Connect the drive to the 230 V mains network.
 - ▶ 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".

5.2 Installing the drive cover



WARNING!

Risk of injury.

People can be injured when the drive cover is pivoted.

- ▶ Always make sure two people handle the drive cover.

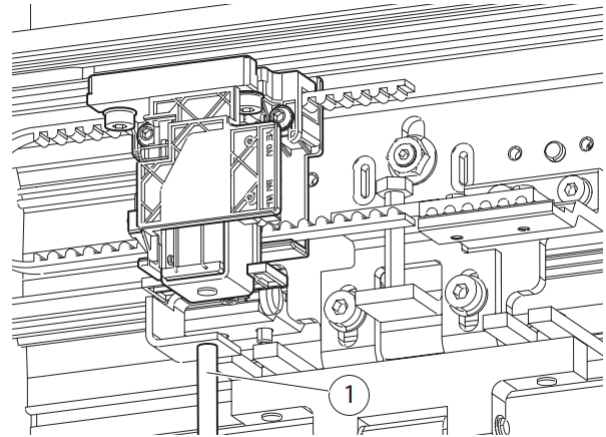


WARNING!

Danger of injury due to drive cover falling.

- ▶ Hook the drive cover in place along the entire length of the track.
- ▶ Let go of the drive cover carefully and check whether it has been hooked in safely.

- ▶ Unscrew the locking pin (1) from the toothed belt locking mechanism (optional).



5.2.1 Testing drive cover earthing (on site)

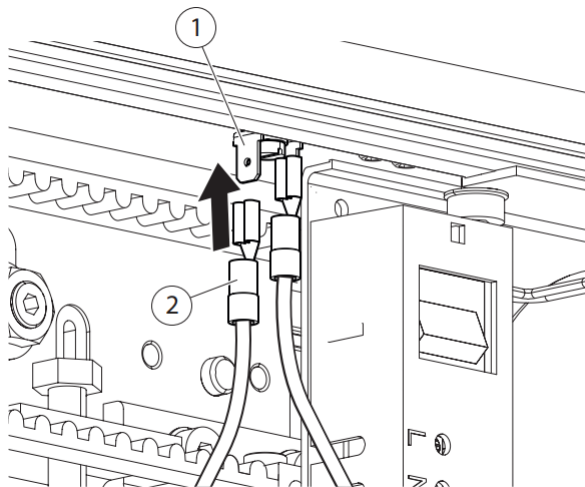


WARNING!

Danger of fatal injury through electric shock.

- ▶ Make sure that there is a drive cover earthing on the drive cover (on site).

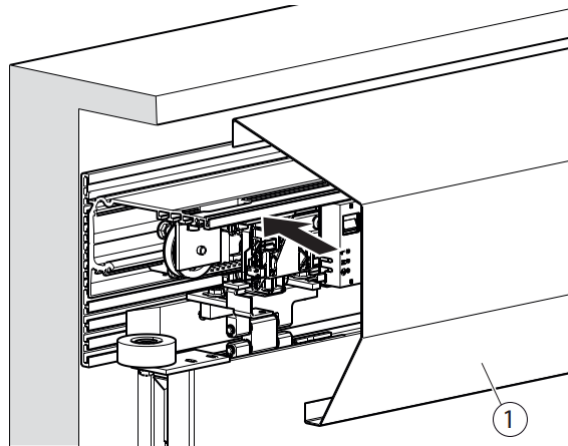
5.2.2 Connecting drive cover earthing



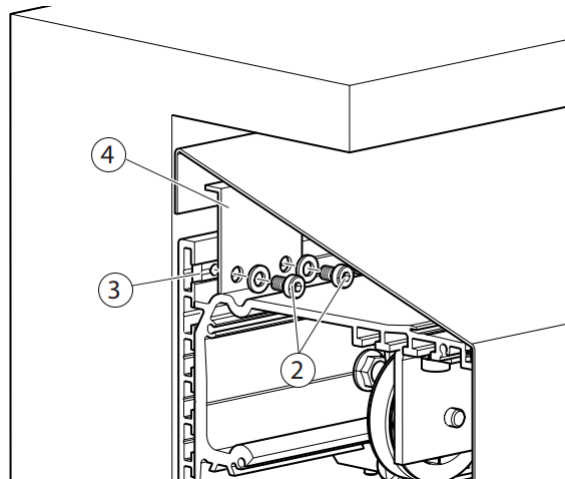
- ▶ Connect the drive cover earthing cable (2) with the second plug-in connection of the device flat plug (1).

5.2.3 Sliding the drive cover in place

- ▶ Slide the drive cover (1) over the track.

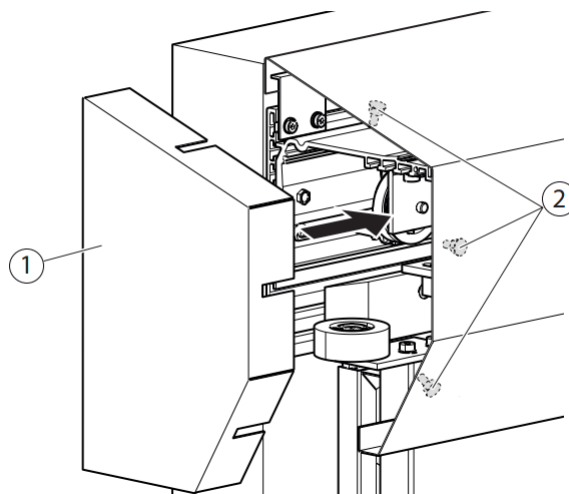


- ▶ Screw clamping brackets (4) into the sliding blocks (3) on the left and right of the drive cover using screws (2) and washers. The drive cover is fixed in place.

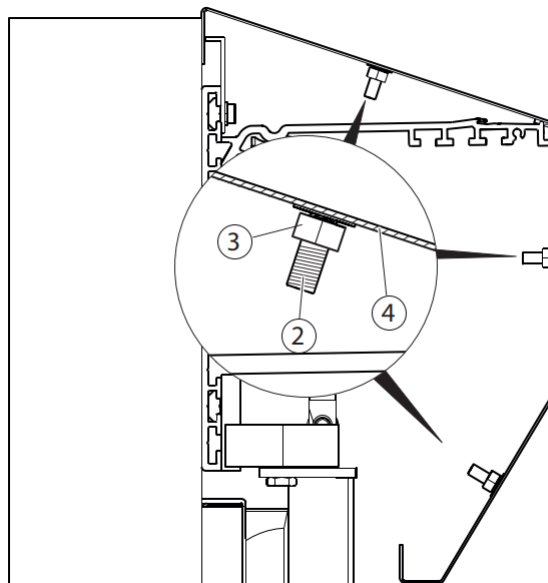


5.2.4 Installing the side panels

- ▶ Slide the side panels (1) onto the press-fit bolts (2) in the drive cover (4).



- ▶ Tighten the hexagon nuts (3).



5.3 Installing safety devices



For information about connection and parameter setting of the safety sensors, and the inputs and outputs and on commissioning, please refer to the wiring diagram.

- ▶ Install safety and activation equipment.
- ▶ Route cables properly in cable ducts.
For electrical installation, see wiring diagram.

5.4 Installing operating elements/switches/push buttons

Only use the combinations of automatic door systems and sensors that we have tested, checked and released. Only these combinations are covered by the type approval certificate. If non-tested third-party sensors are used in connection with our automatic door systems, safety and compatibility are not guaranteed. GEZE GmbH does not accept any liability for the risks and dangers resulting from this.

For electrical installation, see wiring diagram.



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

5.5 Commissioning the door system



For information about connection and parameter setting of the safety sensors, and the inputs and outputs and on commissioning, please refer to the wiring diagram.

5.5.1 Creating log book

- ▶ Carry out a safety analysis.
- ▶ Record installed options in the safety analysis for the operator.

5.6 Dismantling

**WARNING!****Risk of injury.**

People can be injured when the drive cover is pivoted.

**CAUTION!****Danger of injury due to impact and crushing.**

People can be injured when the drive cover is pivoted.

- ▶ Secure the moving leaves against unintentional movement.
 - ▶ Disconnect the rechargeable battery.
-

Dismantling is done in the reverse order of installation.

6 Service and maintenance

6.1 Mechanical service

6.1.1 Checking toothed belt tension

- ▶ The toothed belt must not lift up from the motor gear or skip when braking and accelerating.
- ▶ If the tooth belt lifts or skips, set the tooth belt tension to $300 \text{ N} \pm 35 \text{ N}$.

6.1.2 Tensioning the toothed belt

See Chapter 4.6.3

6.2 Maintenance



CAUTION!

Danger of injury due to impact and crushing!

- ▶ Secure door leaves against accidental movement.
- ▶ Disconnect rechargeable battery.
- ▶ Disconnect mains voltage.



- Only genuine spare parts may be used.
- To ensure the functional ability, the wear parts of the sliding door system must be checked at every maintenance and replaced if necessary.



- The prescribed maintenance work on the sliding door system must be done by an expert:
 - at least once a year
 or
 - when the service indicator on the programme switch lights up (see wiring diagram).
- Depending on the configuration, not all the wear parts listed are present.
- ▶ Provide test documents and keep them up-to-date.

Wear parts present	Replacement interval
Rechargeable battery	Two years
Roller carriage/track and track-supporting rollers	when worn or damaged
Guide rollers	when worn or damaged
Toothed belt	when worn or damaged
Floor guide	when worn or damaged
Deflection pulleys	when worn or damaged
Motor gear unit	when worn or damaged
Cover fixing	when worn or damaged



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

Test spot	Action	Comments
Track	Check for cracks	▶ Replace the track
	Check for cleanliness	▶ Clean the track
Roller carriage	Check the abrasion of the track rollers	▶ Remove the abrasion
Floor guide area	Check for jarring-free function	▶ Clean floor guide area
Floor guide area (brushes)	Check for soiling and hardness	▶ Clean or replace
Moving leaf	Check for smooth movement	▶ See Chapter 7.1.1
Toothed belt	Check for wear & tear and damage	▶ Replace the toothed belt
	Check tension	▶ Tension toothed belt (see Chapter 4.6.3)
	Check the toothed belt locking (optional) for damage	▶ Replace the toothed belt
Toothed belt locking mechanism (optional)	Check function	▶ Reposition the toothed belt locking mechanism (optional) (see Chapter 4.6.5)
Screws	Check for tight fit	▶ Tighten screws (for tightening torques see drive drawing and the respective installation steps)
Assemblies and peripherals	Check for correct function	▶ Replace assembly group
Cables	Check for damage and proper attachment	▶ Fasten or replace cables

7 Troubleshooting

7.1 Mechanical faults

Cause	Remedy
Track bent	<ul style="list-style-type: none"> ▶ Replace track. ▶ Check the installation surface.
Moving leaf stiff	▶ Check the moving leaves (see Chapter 7.1.1).
Roller carriage jammed or defective, high wear at the track rollers	<ul style="list-style-type: none"> ▶ Check toothed belt at driver for perpendicular fit. ▶ Guide toothed belts so that they are parallel. ▶ Replace the roller carriage (see 7.1.2).
Toothed belt damaged	▶ Replace the toothed belt.

7.1.1 Check moving leaf

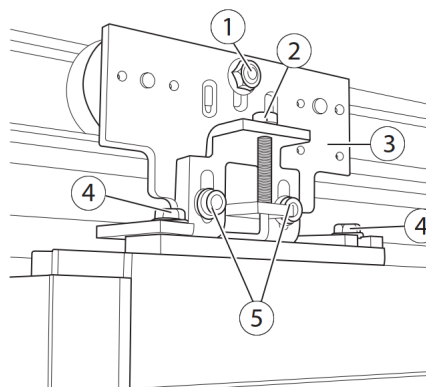
- ▶ Disconnect the moving leaf from the toothed belt using the driver.
- ▶ Move the moving leaf and check for ease of movement.

If the moving leaf moves smoothly:

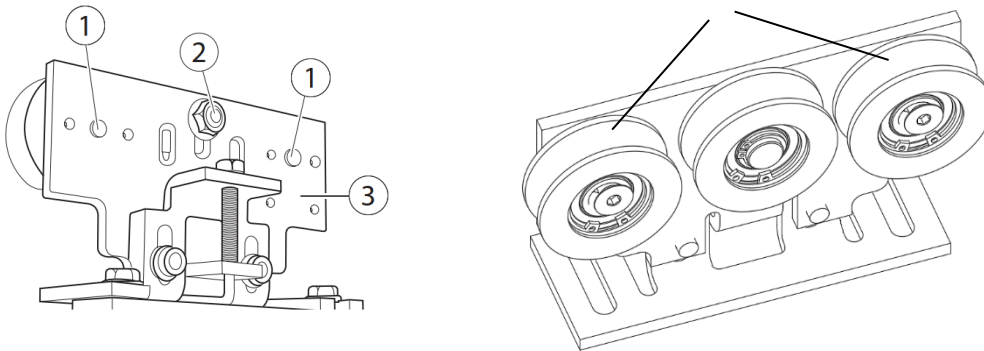
- ▶ Check the motor gear unit and deflection pulley and replace if necessary.

7.1.2 Replacing the roller carriage

- ▶ Secure moving leaf against falling.
- ▶ Separate driver from roller carriage (3) if necessary.
- ▶ Undo the nut (1) of the counter-roller and slide the counter-roller downwards.
- ▶ Loosen the two screws (5) and lower the moving leaf using the height adjusting screw (2) until it touches the ground.
- ▶ Screw the two screws (5) out completely.
- ▶ Tilt the moving leaf carefully until the roller carriage can be accessed freely.
- ▶ Screw the two screws (4) off.
- ▶ Replace the roller carriage (3) and screw tight using the screws (4) (heed wall clearance).
- ▶ Return the moving leaf to its vertical position.
- ▶ Screw the two screws (5) in, but do not tighten them yet.
- ▶ Use the height adjusting screw (2) to set the moving leaf to the correct height.
- ▶ Tighten the two screws (5) with approx. 40 Nm.
- ▶ Adjust the counter-roller.



7.1.3 Replacing track rollers



- ▶ Remove the roller carriage (2), see Chapter 7.1.2.
- ▶ Open screws (1).
- ▶ Replace track rollers (3) (tightening torque 20 Nm).
- ▶ Reinstall roller carriage in reverse order.

7.2 Electrical faults



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

7.2.1 Replacing fuse in transformer



DANGER!

Danger of fatal injury through electric shock.

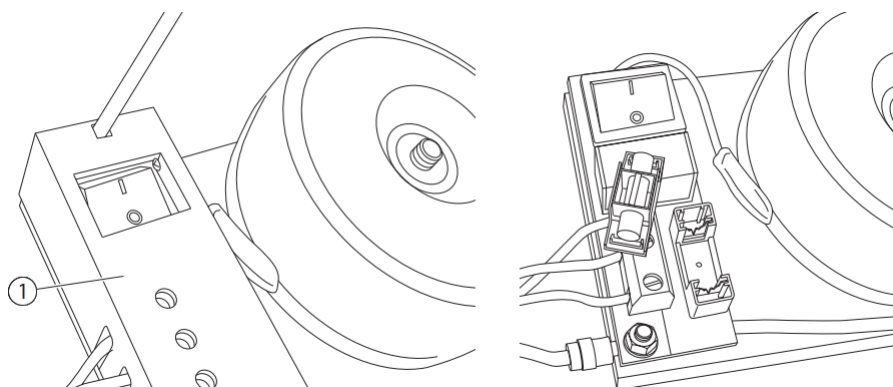
If the main switch on the transformer is activated, the fuse is still energised since it is upstream of the main switch.

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

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



You will find the fuse value on the wiring diagram.



- ▶ Insert a 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.



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

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

8 Inspection of the installed door system

8.1 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.

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