

Installation and maintenance instructions

03 / 2021

PVC-U / Aluminium / Timber

Security door locking system solidLock

Installation and maintenance instructions



If these important instructions are not observed, then no warranty can be assumed for a malfunction-free functionality and smooth operation of the locks.

The following information and illustrations reflect the current state of our development and manufacturing of these products. In order to achieve customer satisfaction and reliability of the hardware components we reserve the right to change the product. Any information given in this document has been compiled and verified with the greatest care. Some of the indicated dimensions are rounded measures! Due to the constant technical progress, changes in legislation and other inevitable changes, we cannot accept any responsibility for the accuracy and completeness of the contents. We are always thankful for suggestions and comments. Taking into account the information and facts given here with regard to doors, the fitting system can easily be installed.

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solidLock

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EN Instructions on secure transportation

Transport blocks

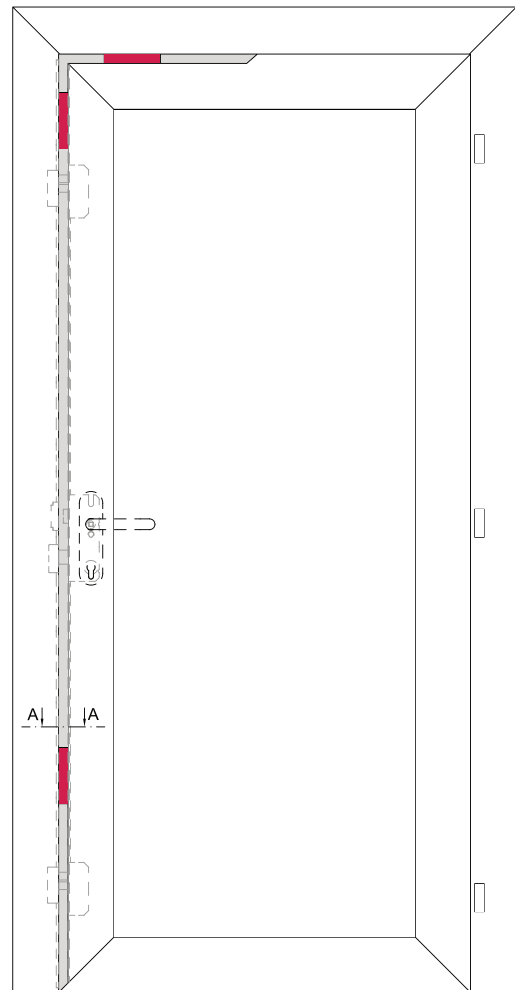
To prevent damage to installed locks during transport of the door, transport blocks must be inserted between the sash and the frame, for fastening the airgap. In the event that PVC-U, aluminium, or timber doors have a euro groove/euro rebate, an all-round airgap of 11 to 12 mm should be available. This is 4 mm in the case of timber doors with a 4 mm airgap. These transport blocks may only be removed immediately before the door assembly.



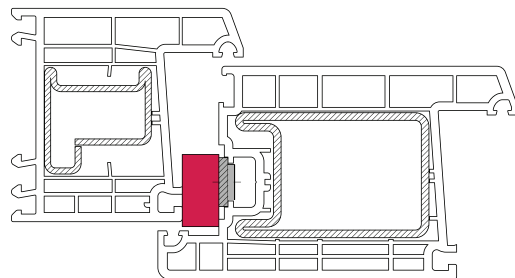
System-compatible transport protection may be available from the profile manufacturers (PVC-U) or accessory retailer (timber).

Explanation

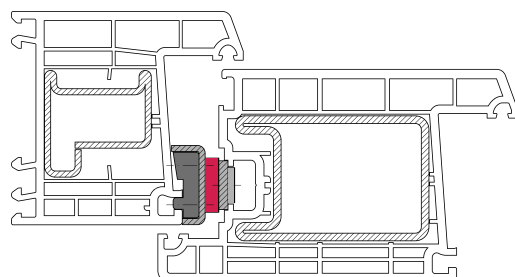
	Airgap
	Transport block



Section A-A (single keep)



Section A-A (keep rail)



Instructions on secure transportation

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Transport lock position

For key-operated locks

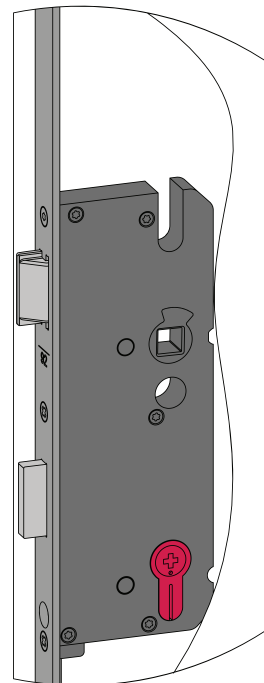
Fixing the closed door by 1 revolution locking (1 x 360 ° turn the key in the lock cylinder or the construction key with a maximum torque of 2.5 Nm).

For handle-operated locks

The fixing of the closed door by pulling up the handle. Handle-operated locking not additionally lock on the key of the profile cylinder/block.

Cylinder filling piece

If the transport of the door is carried out without an installed profile cylinder, then a red cylinder filling piece must be inserted in the lock, for locking the door during transport and for protecting the lock mechanism from a dirt and foreign objects. The cylinder filling piece may only be removed immediately before the installation of the profile cylinder.



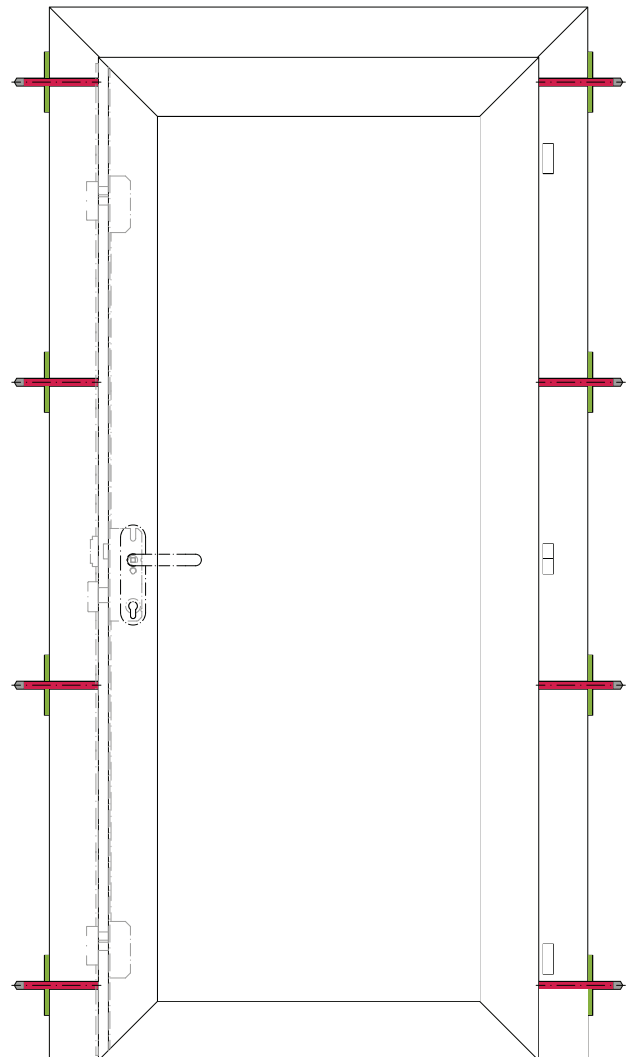
Installation and adjustment instructions

Professional installation of the door unit

1. Insert the frame into the wall opening.
2. Align vertically and horizontally and fasten (wedges, mounting cushions etc.).
3. Mount the sash and perform locking test while aligning the frame with the sash until the gasket rests evenly and circumferentially against the sash.
4. Install the frame in the masonry with suitable fixing material, assure compression-proof backing in the hinge and locking points areas.
5. Perform sealing measures as necessary:
 - **Recommended:** Installation according to "Guideline for installation of windows and external doors" by Gütegemeinschaft RAL.
6. After hardening of the sealants, adjust the door sash at the hinges and perform final locking and functions test of all components.
7. Submit the documentation (operating and maintenance instructions acc. to CE certification) to the customer.

Explanation

	Compression-proof backing
	Fasteners coordinated with wall material

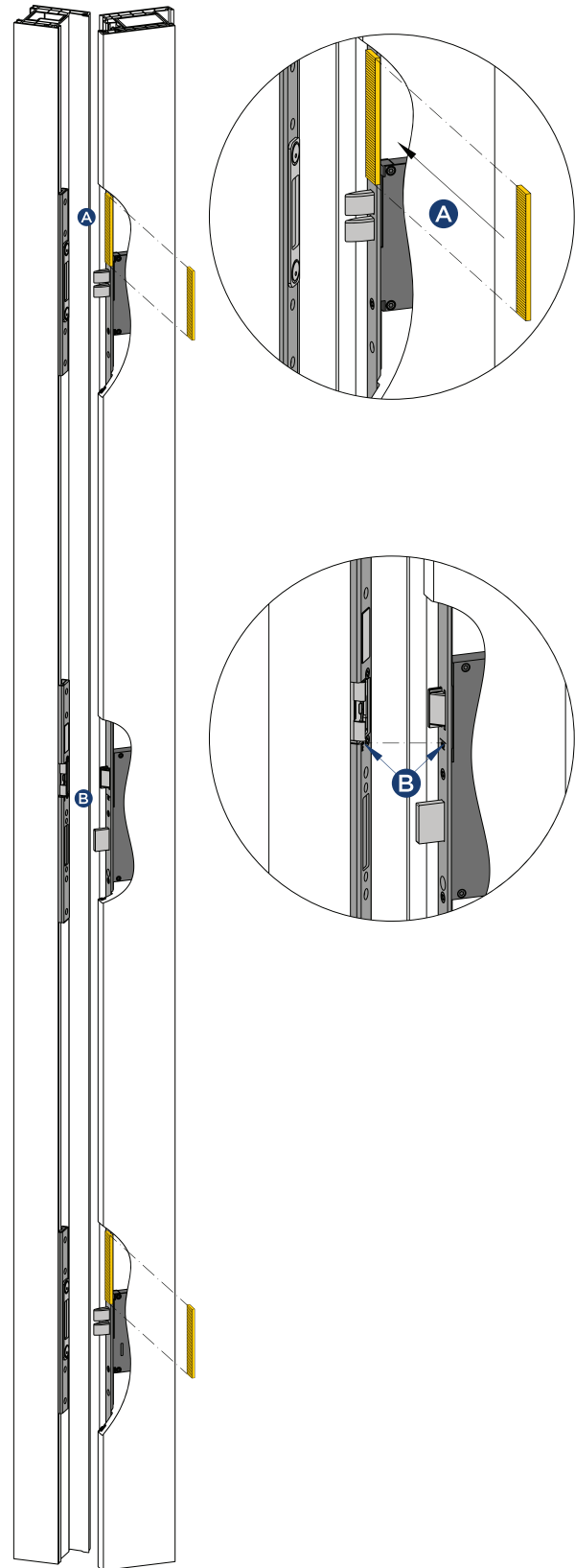


Installation and adjustment instructions

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Installation/adjustment instructions

1. **A** Maintain residual airgap of 4 mm (± 0.5 mm) between the locking mechanism and the keeps! (e.g. check with glass pad 4 mm).
Locking mechanism operating range 4 ± 2 mm.
2. **B** Handle height marks on the faceplate (indent at handle spindle level) and the latch/deadbolt keep must show the same installation height.
3. Observe contact pressure of hinges (must not be too large to avoid lever action of the entire unit), reduce if necessary.
4. **Adjust the door closing pressure at the latch plate of the latch insert**, enabling the gasket to fit close to the frame and easy opening by key is possible.
5. Adjust closing pressure at the top barrel bolt using the adjustment plate of the keep.
6. Adjust closing pressure at the bottom barrel bolt using the adjustment plate of the keep.
7. Conduct a function check of all elements: close, unlock on handle and with key. If needed: Reduce pressure at hinges, in order to relieve the door sash.

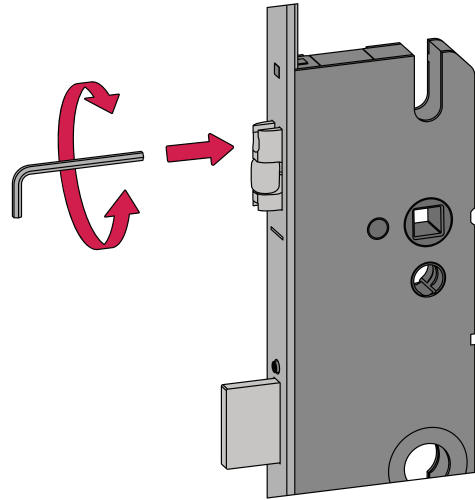


Contact pressure regulation and adjustment options

Possibilities for adjustment at roller latch use

The visible width of the roller latch from backsets 26 mm to 65 mm can be adjusted using a 2.5 mm Allen wrench.

- Roller latch for backset 26 mm, can be adjusted within a range of +1/-1 mm
- Roller latch for backset 28 mm, can be adjusted within a range of +1/-2 mm
- Roller latch for backset from 30 mm to 65 mm, can be adjusted within a range of +2/-4 mm

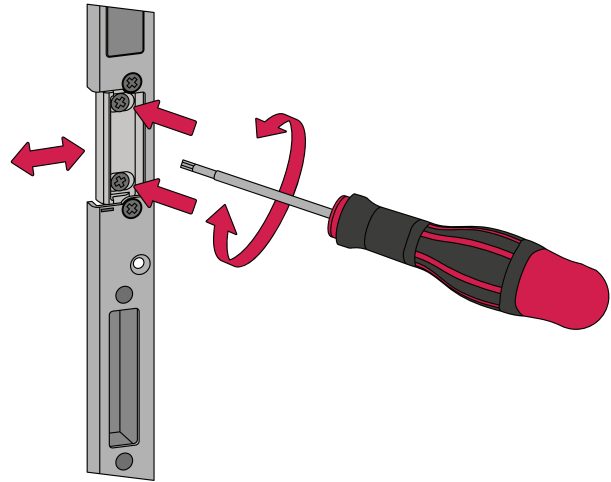


Contact pressure regulation and adjustment options

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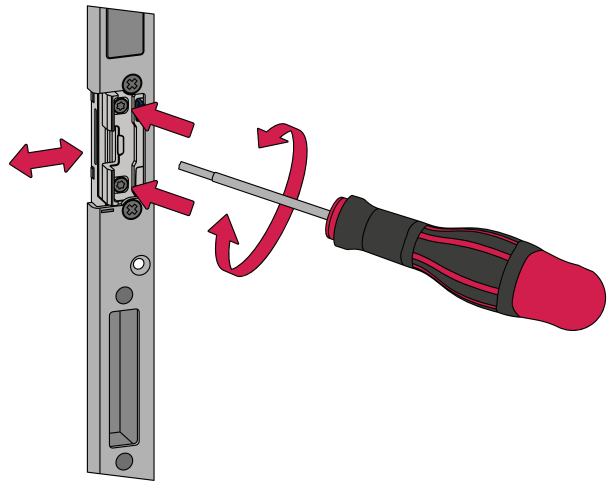
Contact pressure adjustment insert

The contact pressure for latch-dead bolt keeps or keep rails is regulated by the adjustable latch plate of the insert. The latch plate can generally be adjusted with a screwdriver (PH2) ± 2 mm.



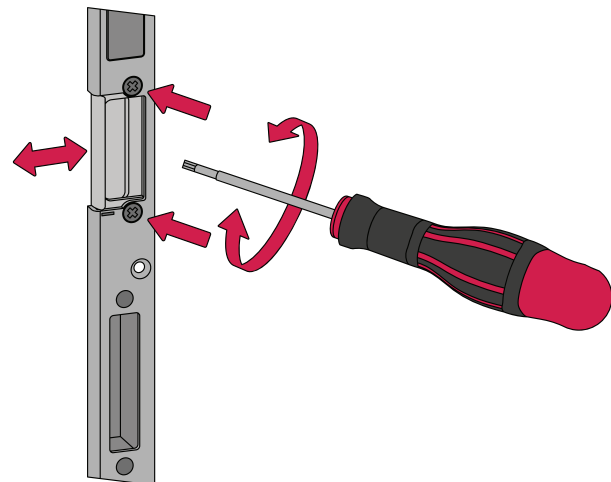
Contact pressure adjustment daytime latch

The contact pressure for latch-dead bolt keeps or keep rails is regulated by the adjustable latch plate of the daytime latch. The latch plate can generally be adjusted with a Torx T15 screwdriver ± 1 mm.



Contact pressure adjustment latch plate

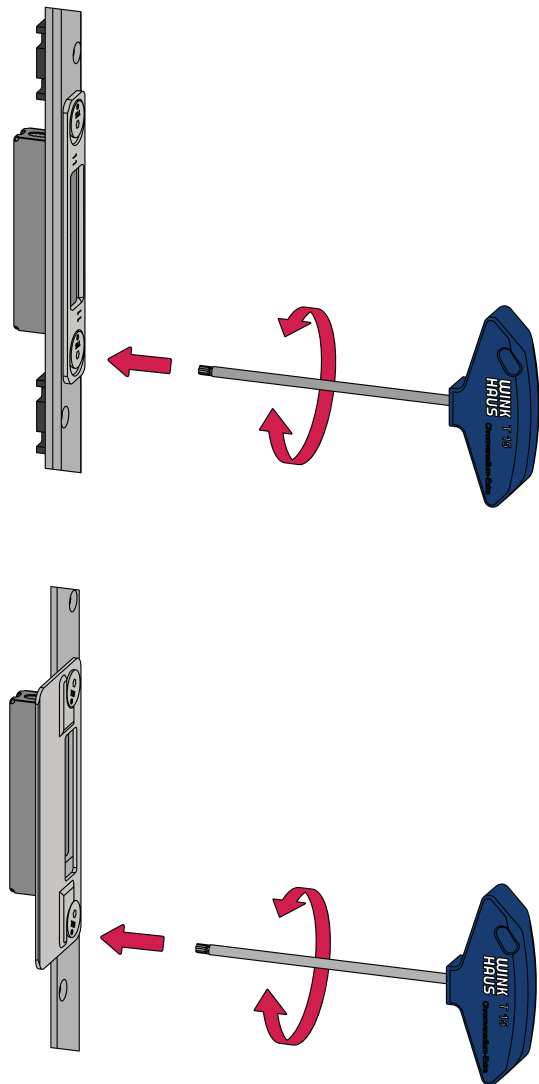
The contact pressure for latch-dead bolt keeps or keep rails is regulated by the adjustable latch plate. The latch plate can generally be adjusted with a screwdriver (PH2) ± 2 mm.



Contact pressure regulation and adjustment options

Outside contact pressure adjustment on the auxiliary locking point

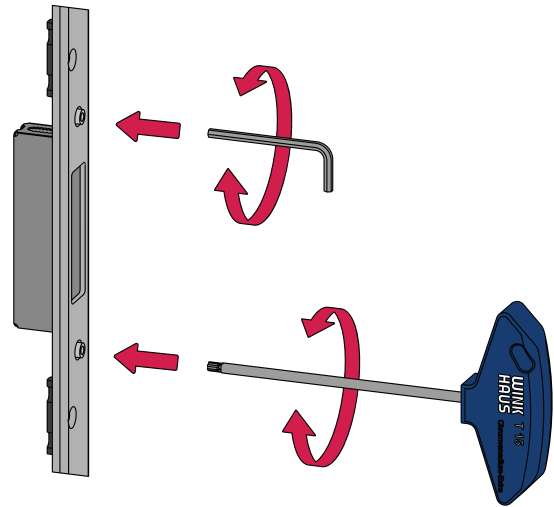
Contact pressure in single keeps or keep rails is regulated by off-center adjustment plates on the outside. They can be adjusted continuously with a Torx T15 screwdriver (part no. 2953104) in the range ± 2 mm.



Contact pressure regulation and adjustment options

Inside contact pressure adjustment auxiliary locking point

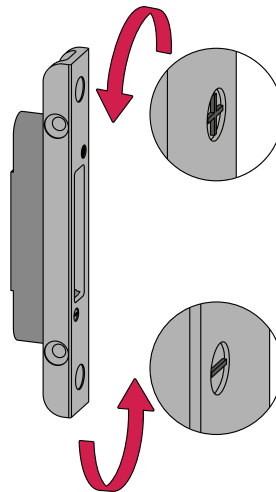
Contact pressure in single keeps or keep rails is regulated by off-center adjustment plates on the inside. They can be adjusted continuously with a 3 mm Allen wrench or with a Torx T15 screwdriver (part no. 2953104) in the range ± 2 mm.



Contact pressure adjustment

TM-20-4-T single keep (timber 4 mm air gap)

Due to the \pm sides of the TM-20-4-T hook keep, the contact pressure can be varied by changing the mounting position through 180°.

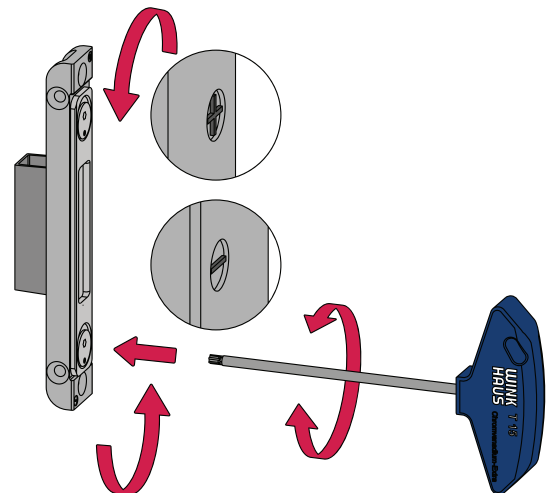


Contact pressure adjustment

TM-22-4-V single keep (timber 4 mm air gap)

Due to the \pm sides of the TM-22-4-V hook keep, the contact pressure can be varied by changing the mounting position through 180°.

In addition, contact pressure in single keeps or keep rails is regulated by off-center adjustment plates on the outside. They can be adjusted continuously with a Torx T15 screwdriver (part no. 2953104) in the range ± 2 mm.

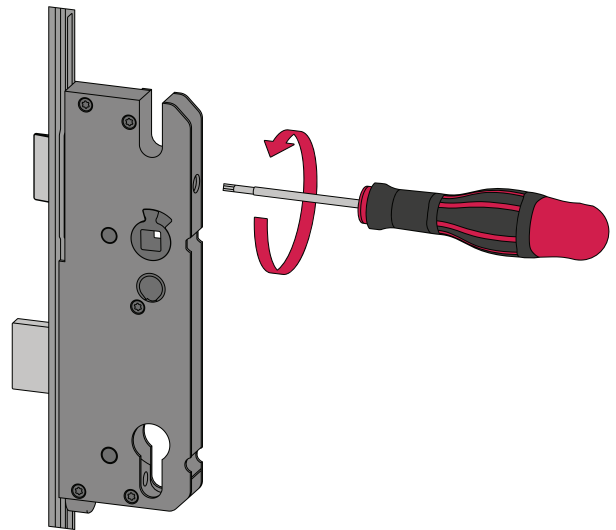


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Regulation the latch (right/left)

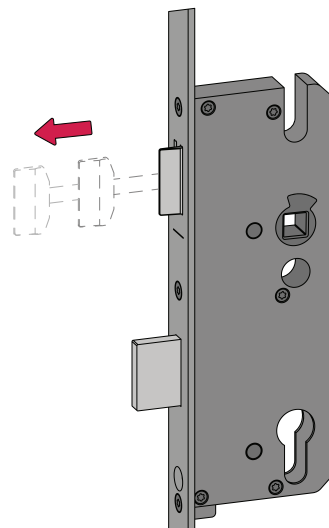
Step 1

Release the screw with a screwdriver (PZ2) on the back side of the gearbox.



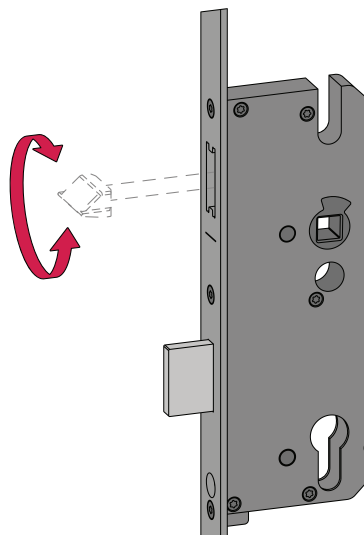
Step 2

Remove the latch.



Step 3

Rotate the latch 180°.

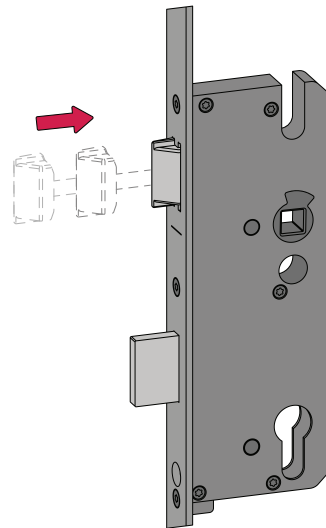


Regulation the latch (right/left)

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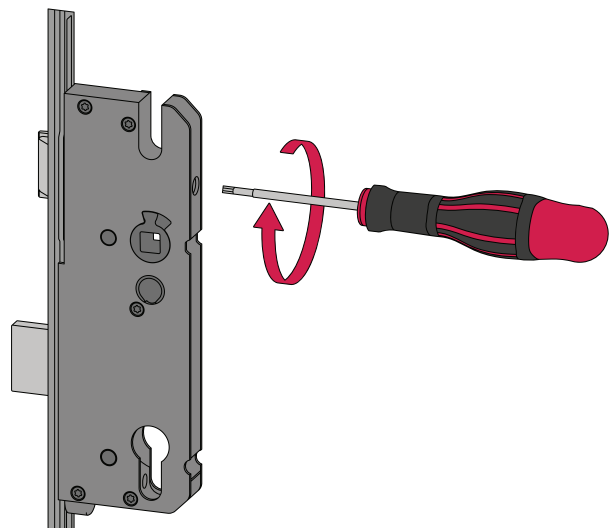
Step 4

Install the latch.



Step 5

When screwing the latch with a screwdriver (PZ2) in place (max. 2.5 Nm), ensure that the latch is positioned correctly in the latch guide and can be screwed completely.



After regulation

Carry out a function test and check for correct latch retraction.

Cleaning and care instructions

Please observe the following notices:

The proper seating and wear and tear of security-relevant parts of Winkhaus fittings must be checked regularly. If required, attachment screws must be retightened and/or damaged parts must be replaced. Lock cylinders and keys must be replaced, when despite proper maintenance, malfunctions occur, especially during the insertion or extraction of the key. At least once every year, and depending on the frequency of use, all movable parts and all accessible sliding points of the Winkhaus fitting must be greased with technical vaseline and checked for proper functionality.

Heavily stressed sliding parts, such as chamfer of latch and automatic tracer pins, should be greased or oiled more frequently where necessary (e.g. quarterly).

For special applications for specially tested door fittings, e.g. fire protection and panic locking systems, special regulations apply in accordance with the relevant inspection/certification standards (e.g. monthly function check, inspection or annual maintenance), which can be found in the relevant product documentation. To prevent a negative effect on the corrosion protection of Winkhaus fittings, only neutral cleaning and care agents may be used, which do not contain any abrasives.

Example for lubricant to be used:
T-Polfett 10 GR Stößel.

Alternative:

- a) Klüber, Klüberelectric KR 44-22
- b) Divinol, Profilube SL
- c) Divinol F14 EP
- d) Shell Gadus S2 V100

Part description	Part-no.
T-POLFETT 10 GR STÖßEL	5040239



Greases must be compatible with non-ferrous metals and plastics.

Cleaning and care instructions

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Cleaning

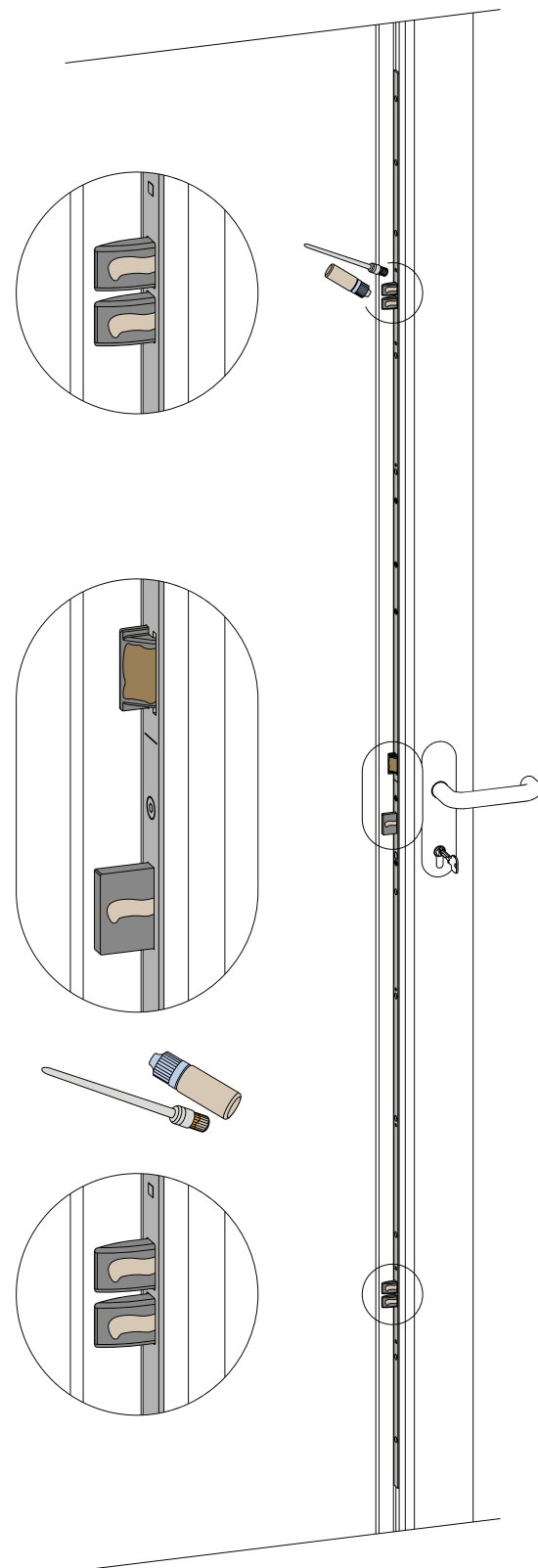
- Use a soft cloth for cleaning.
- Use neutral cleaning and care agents which do not contain any abrasives.
- Electronic components may only be cleaned dry.

Care

- Lubricate all moving parts and accessible sliding parts on both sides at least once a year.
- Heavily stressed sliding parts, such as latch bevels, should be greased more frequently if necessary (e.g. quarterly).

Explanation

	Lightly grease
	Heavily grease



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