



WINKHAUS AP4
Security Door
Locking System
Panic Lock



WINKHAUS AP4 Security Door Locking System Panic Lock Installation Guide

[Home](#) » [WINKHAUS](#) » WINKHAUS AP4 Security Door Locking System Panic Lock Installation Guide 

Contents

- [1 WINKHAUS AP4 Security Door Locking System Panic Lock](#)
- [2 Instructions on secure transportation](#)
- [3 Installation and adjustment instructions](#)
- [4 Installation / adjustment instructions](#)
- [5 Alternative accessories](#)
- [6 Contact pressure regulation and adjustment options](#)
- [7 Regulation the escape direction](#)
- [8 Regulation the latch \(right / left\)](#)
- [9 Cleaning and care instructions](#)
- [10 FAQ](#)
- [11 Documents / Resources](#)
 - [11.1 References](#)
- [12 Related Posts](#)



WINKHAUS AP4 Security Door Locking System Panic Lock



Specifications

- Product: Security door locking system panicLock AP4
- Material: PVC-U/Aluminium/Timber
- Manufacturer: winkhaus.de

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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Instructions on secure transportation

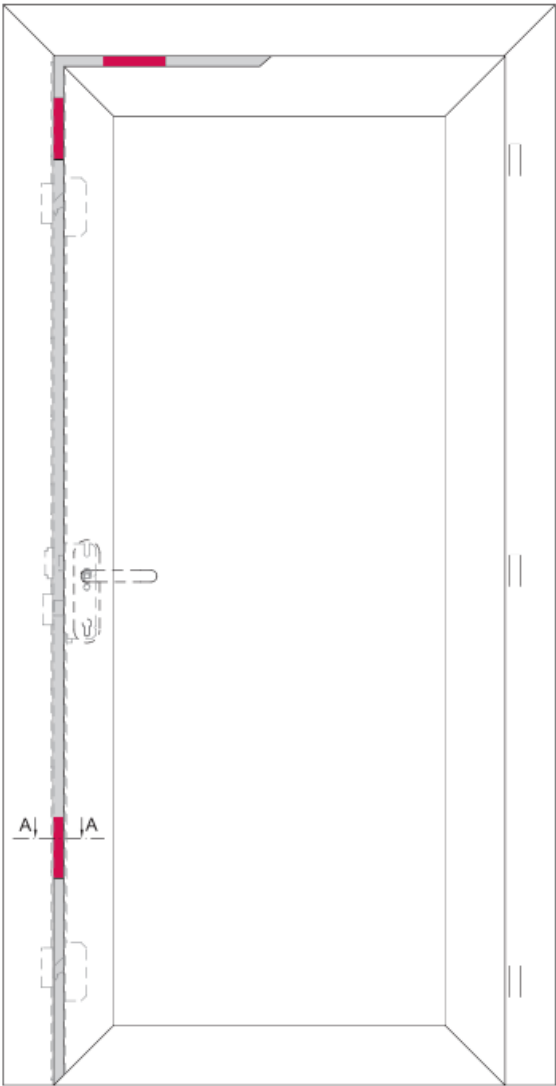
Transport blocks

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.

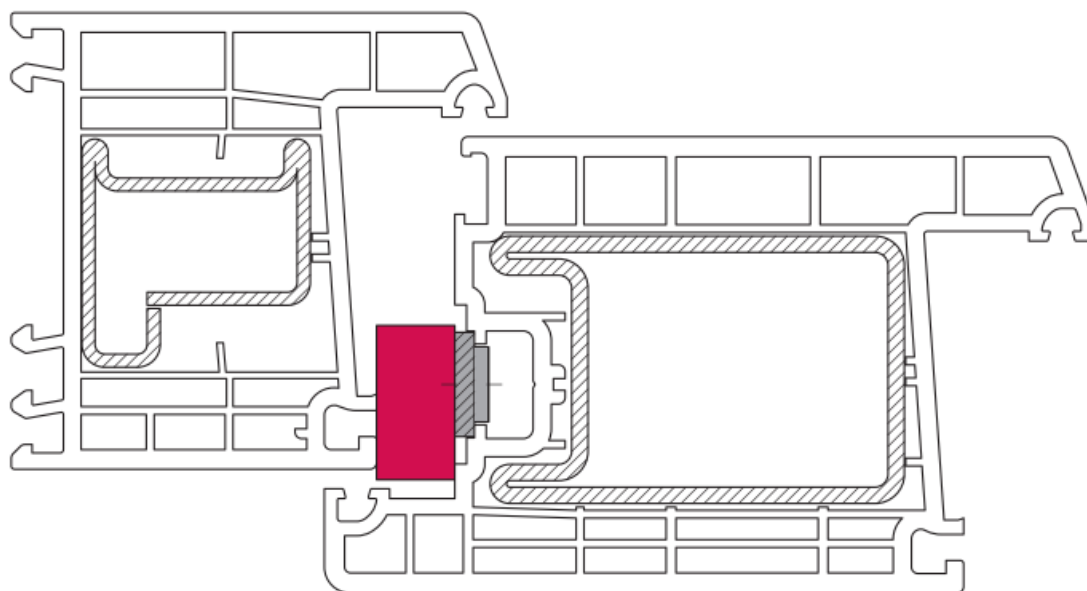
System-compatible transport protection may be available from the profile manufacturers (PVC-U) or accessory retailer (timber).

Explanation

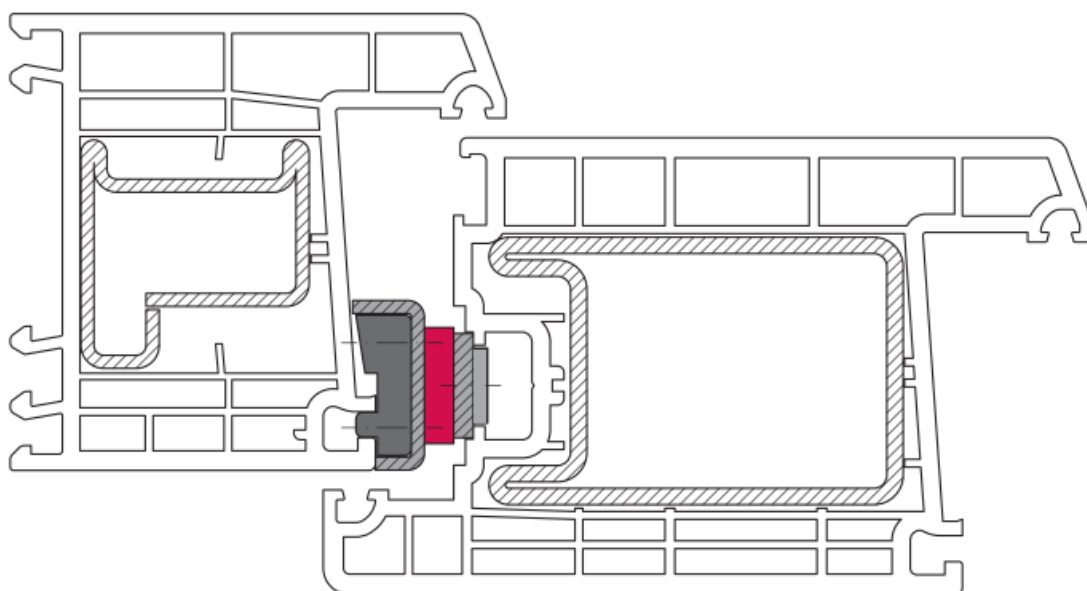
	Airgap
	Transport block



Section A-A (single keep)



Section A-A (keep rail)

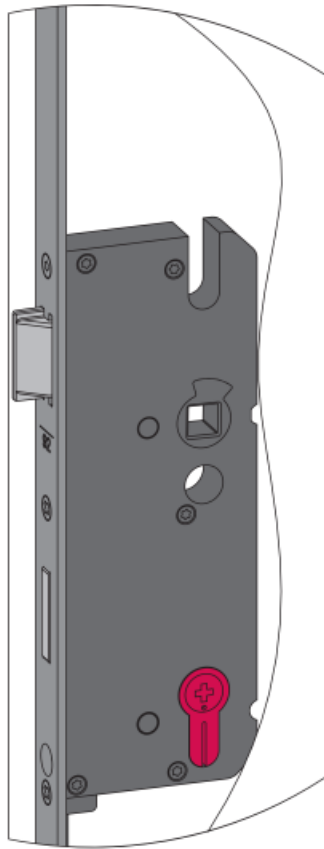


Transport lock position

The door locking system panicLock AP4 may not be locked during transport.

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.



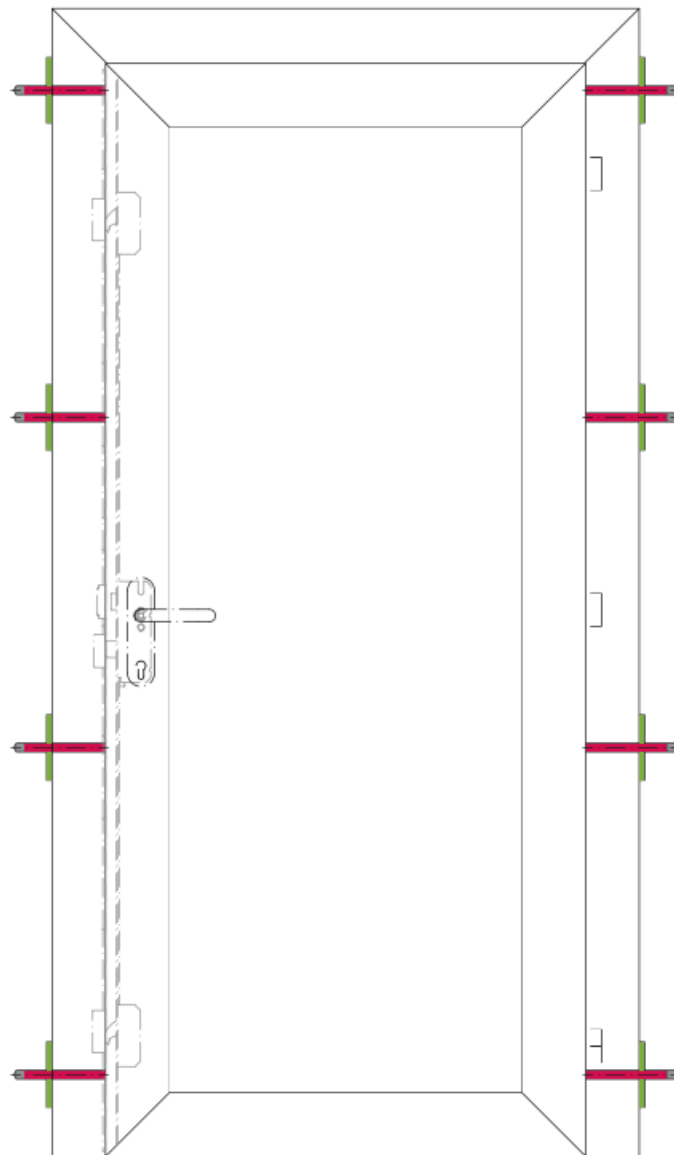
Installation and adjustment instructions

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 – Recommended: Installation according to “Guideline
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

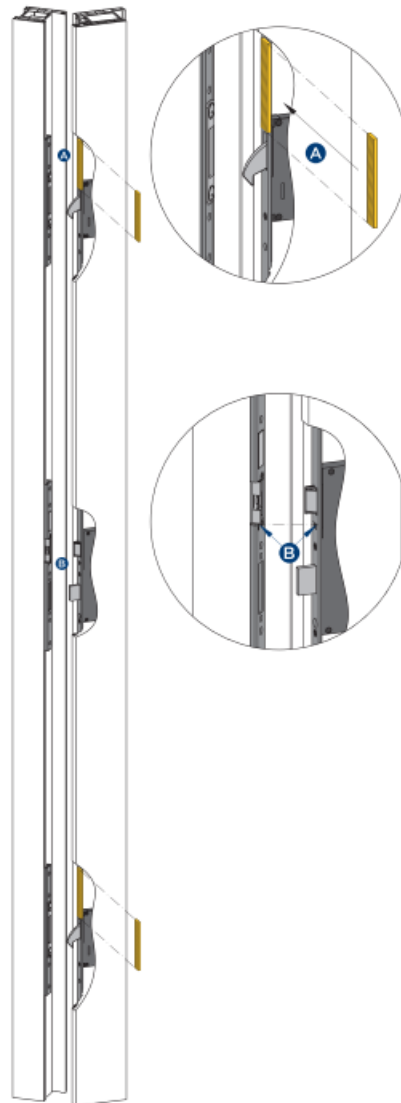
	Compression-proof backing
	Fasteners coordinated with wall material



Installation / 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 hook using the adjustment plate of the keep.
6. Adjust closing pressure at the bottom hook 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.
8. When using security door locking systems, keeps, seals and swing door openers, perform the adjustment so as to take the intended function into account at

EN 179 (max. release force 70 N) on the handle and at EN 1125 (max. release force 80 N) on the pushbar. The max. permissible unlocking forces (release forces) are exerted by tightening the latch, not by tightening the hook. The hook must slide freely into the keep.



Alternative accessories

External fittings

Alternative external fittings (certified following DIN 18273), are suitable to internal fittings following EN 179 / 1125.

- Please order directly with companies mentioned above.
- Please indicate PZ distance when ordering.

Accessories panicLock AP4 179: tested according to EN 179: 2008, in combination with handles from the company:	
Company	Coding
FSB	DO 20.3.01, DO 20.3.02
Hoppe	DO 20.x.01, DO 20.x.02
Glutz	ift Zertifikat № 235-6014391-1-1; BAY18
ECO	DO 20.1.01, DO 20.1.02
HEWI	VE 30-26
HERMAT	ift-Registrier-Nummer: 2308000244-1-3
Diekmann	DO 20.16
Wilh. Grundmann GmbH	DO 20.26
Südmetail OGRO Beschlagtechnik GmbH	ift Zertifikat № 235-8008783-4-5 DO 20.4

Notice: The door handle sets must have an angle of rotation of 45°!

Accessories panicLock AP4 1125: tested according to EN 1125:2008, in combination with handles from the company:		
Company	Type no.	Coding
ECO	ECO EPN 900 III, 45°	DO 30.03
ECO	ECO EPN 900 IV, 45°	DO 30.03

Notice: The push bar must have an angle of rotation of 45°!

Company	Special locking plates / electrical door opener
IST	FT 200, FT 201, FT 500, FT 501, R 7000, R 7001, A 7000
effeff	142, 131, 111, 19, 116, 118, 119, 611
DORMA	Fire 447 und Smoke 117

Electrical door opener

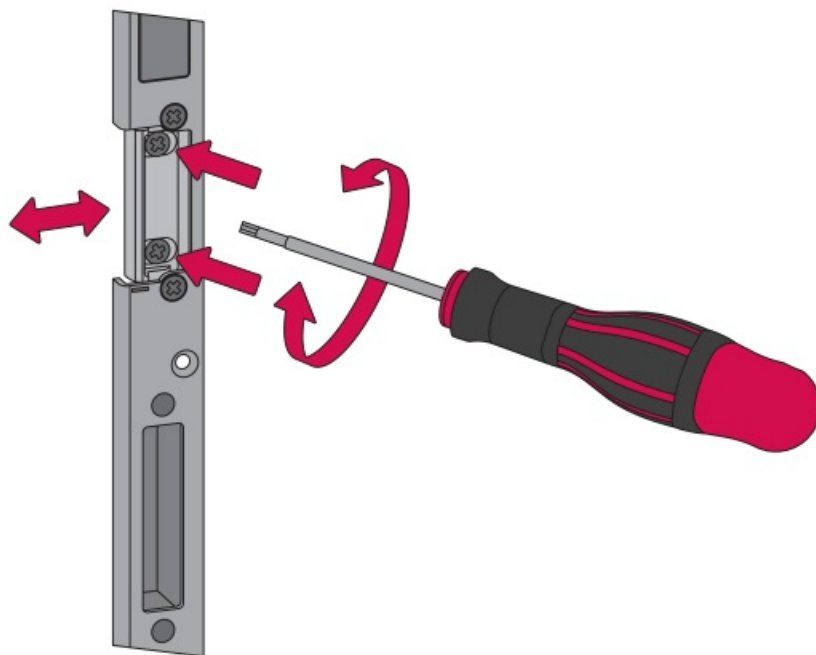
As an alternative to standard locking plates, the locks can also be equipped with special locking plates and electric open-circuit current releases.

Article	Electrical door opener		Daytime latch (TaFa)	
	with hold open func tion	without hold open func tion	with hold open func tion	without hold open func tion
panicLock AP4 in accordance with EN 179	X	X	—	—
panicLock AP4 in accordance with EN 1125	—	X	—	—
Attention: Locks mentioned above, but for fire doors / smoke protection doors	—	X	—	—

Contact pressure regulation and adjustment options

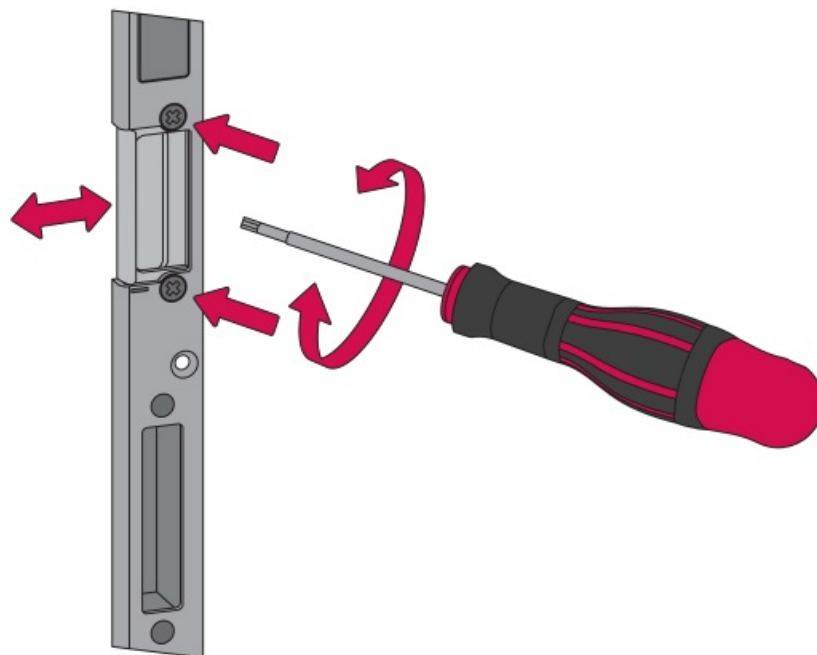
Contact pressure adjustment insert

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.



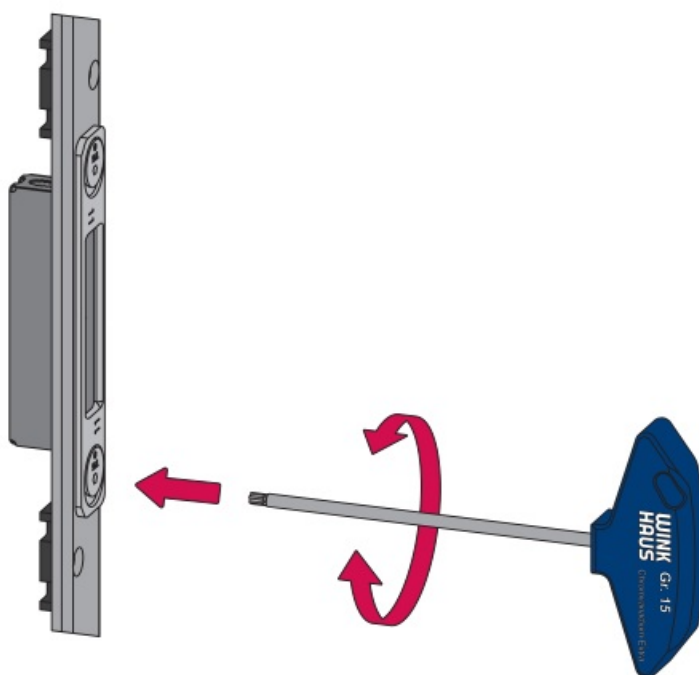
Contact pressure adjustment latch plate

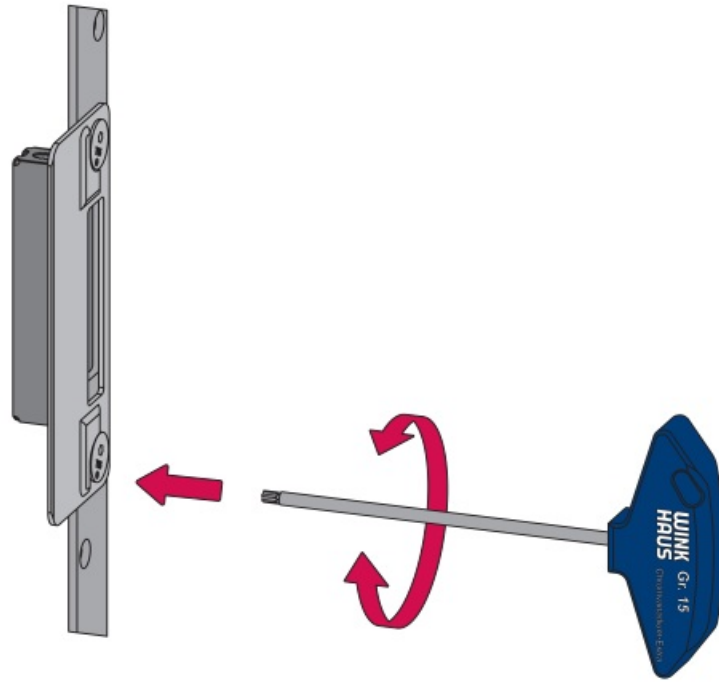
The contact pressure for latch-dead bolt keeps or keep rails is regulated by the adjustable latch plate. The latch plate can generally be adjusted with a screwdriver (PH2) ± 2 mm.



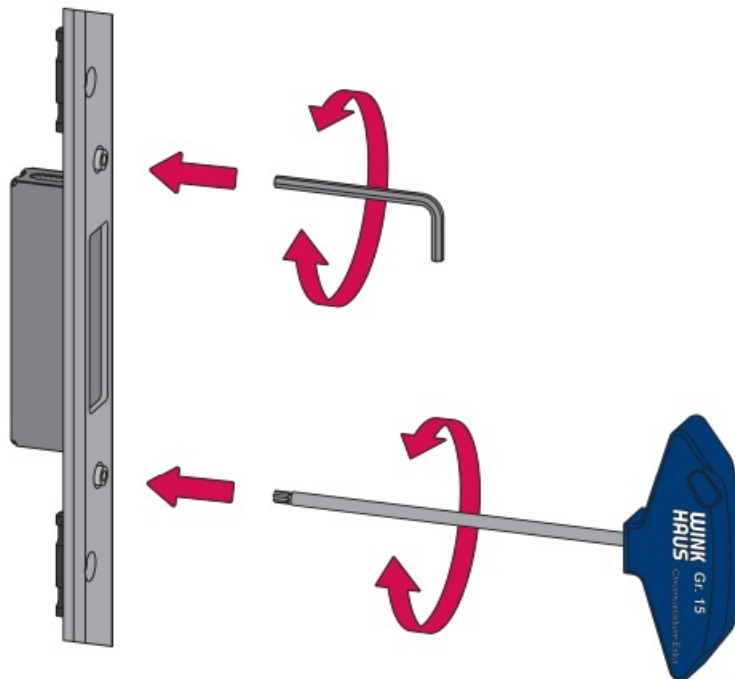
Outside contact pressure adjustment on the auxiliary locking point

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 hexalobular socket screwdriver size 15 (part no. 2953104) in the range ± 2 mm.



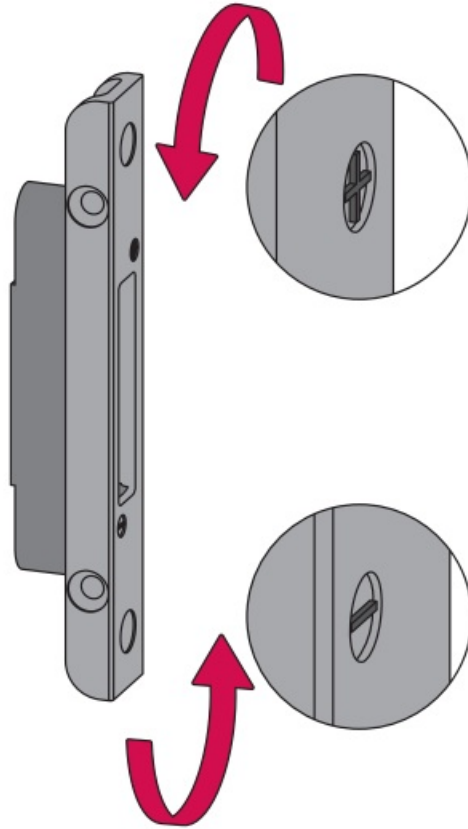


Inside contact pressure adjustment auxiliary locking point Contact pressure in single keeps or keep rails is regulated by off-center adjustment plates on the inside. They can be adjusted continuously with a 3 mm hexagon socket wrench or with a hexalobular socket screwdriver size 15 (part no. 2953104) 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°.

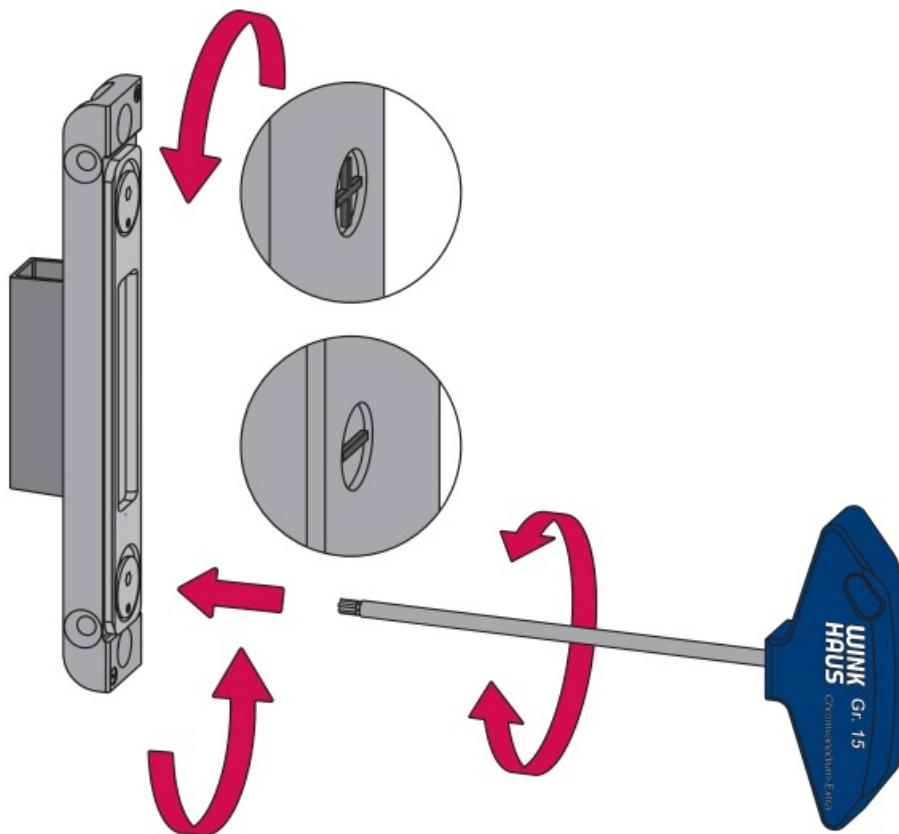


Contact pressure adjustment

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°.

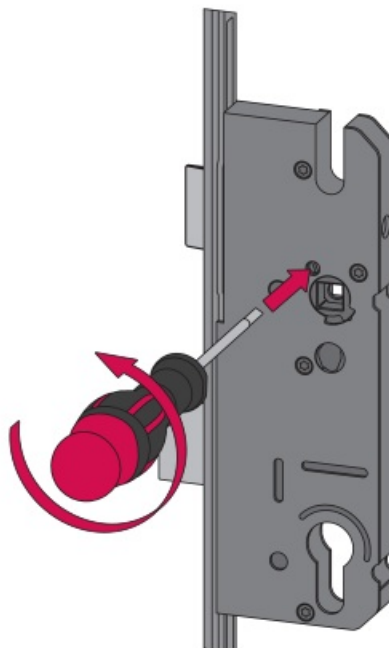
In addition, contact pressure in single keeps or keep rails is regulated by off-center adjustment plates on the outside. They can be adjusted continuously with a hexalobular socket screwdriver size 15 (part no. 2953104) in the range ± 2 mm.



Regulation the escape direction

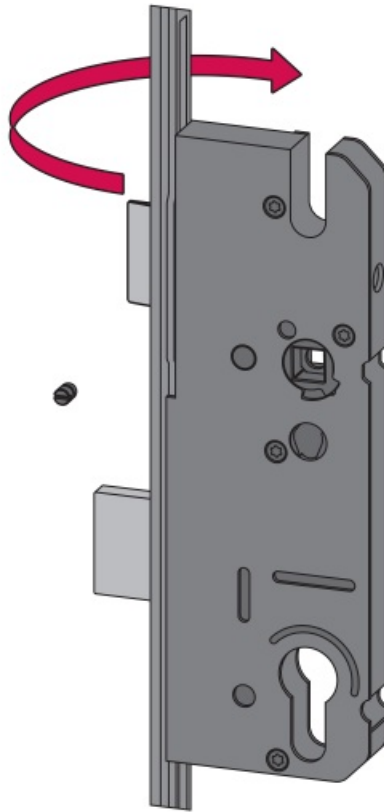
Step 1

Loosen the screw on the side of the lock case with a slotted screwdriver (0.8 x 4.0) and remove it.



Step 2

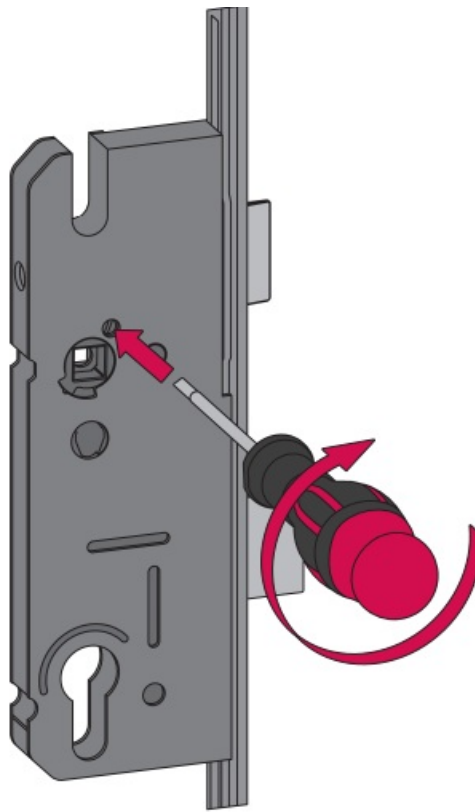
Turn lock case by 180°.



Step 3

Position the screw properly on the side of the lock case and tighten with a slotted screwdriver (0.8 x 4.0). (max. 2.5 Nm).





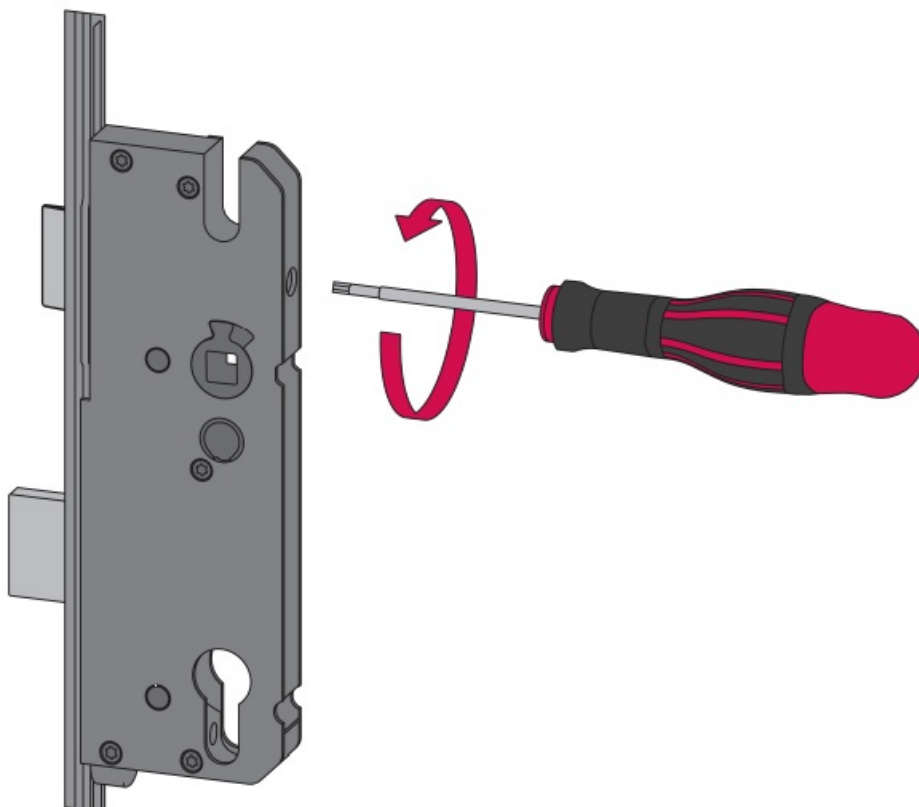
After adjusting the direction of escape

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

Regulation the latch (right / left)

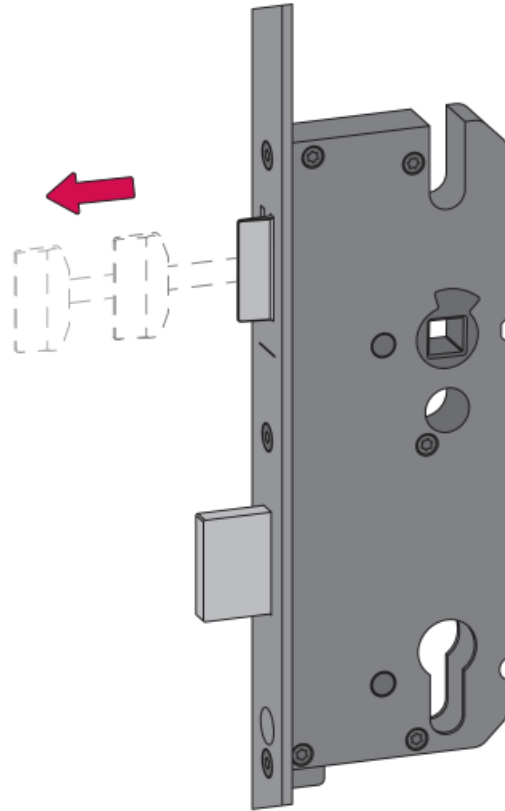
Step 1

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

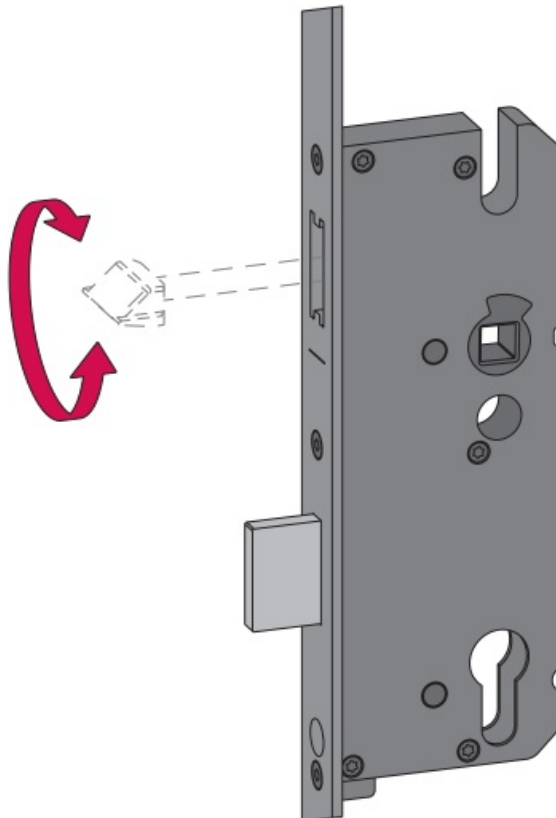


Step 2

Remove the latch.

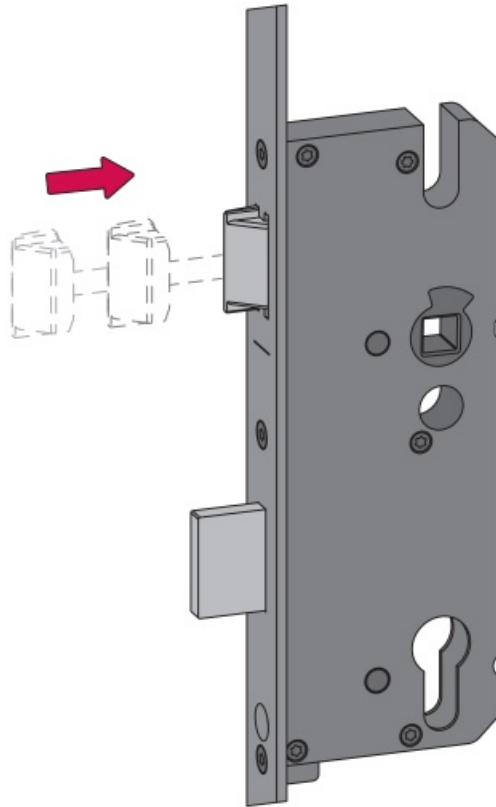
**Step 3**

Rotate the latch 180°.



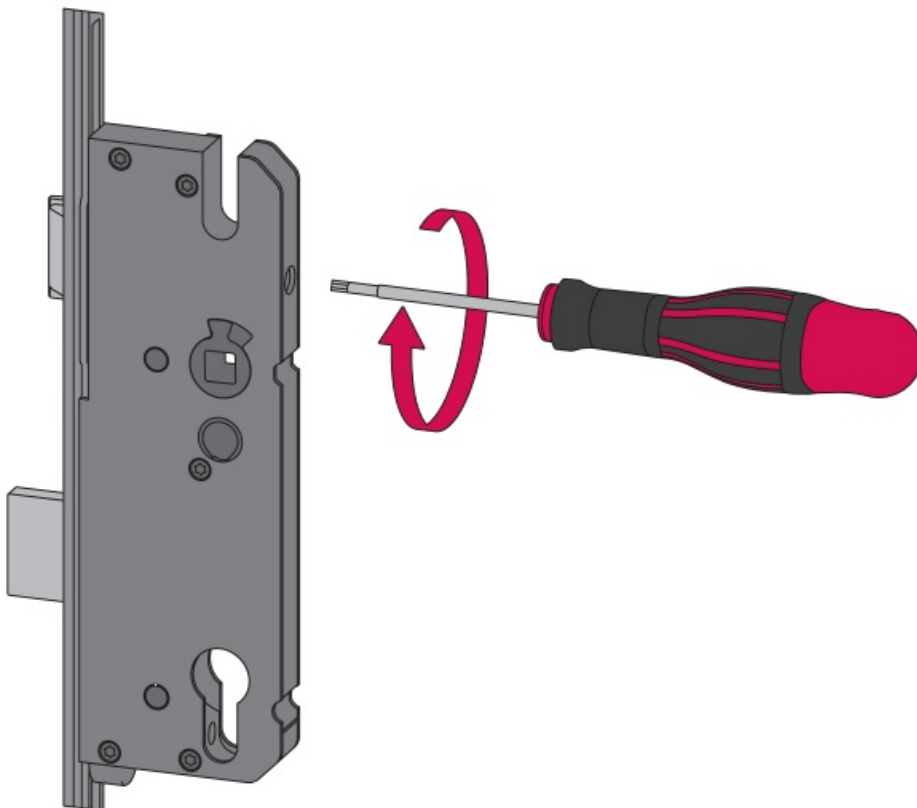
Step 4

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:

- Klüber, Klüberelectric KR 44-22
- Divinol, Profilube SL
- Divinol F14 EP
- Shell Gadus S2 V100

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

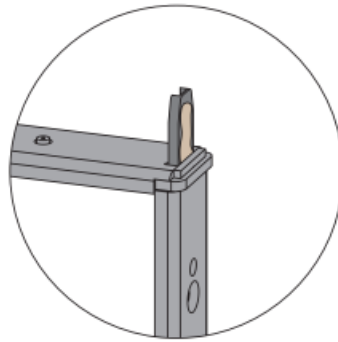
Greases must be compatible with non-ferrous metals and plastics.

Cleaning

- 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 or at most every 20,000 operating cycles.
- 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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FAQ


- **Q: Can I remove the transport blocks before door assembly?**

A: Yes, the transport blocks should only be removed immediately before door assembly.

- **Q: What should I do if the profile cylinder is not installed during transport?**

A: Insert a red cylinder filling piece to lock the door during transport and protect the lock mechanism from dirt and foreign objects. Remove this piece just before installing the profile cylinder.

Documents / Resources

	<p>WINKHAUS AP4 Security Door Locking System Panic Lock [pdf] Installation Guide AP4 Security Door Locking System Panic Lock, AP4, Security Door Locking System Panic Lock , Locking System Panic Lock, System Panic Lock, Panic Lock</p>
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References

- [User Manual](#)

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