ASSEMBLY INSTRUCTIONS

SIEGENIA®
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KFV

Multi-point lock

Assembly instructions: AS3500

Window systems
Door systems
Comfort systems

DEUTSCH | ENGLISH | FRANÇAIS | ESPAÑOL | ITALIANO | NEDERLANDS | ČESKÝ | POLSKI | РУССКИЙ

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1. Introduction

1.1 Target group of this documentation

This documentation is intended for use by specialists only. All work described in this document is to be performed by experienced professionals with training and practice in the assembly as well as commissioning and maintenance of multi-point locks. Safe and proper assembly of these locks hinges is not possible without expert knowledge.

1.2 Intended use

1.2.1 Installation location

- The multi-point lock is suitable for installation in single-sash and double-sash doors in permanent buildings.
- The multi-point lock may only be installed in doors that have been fitted in a technically sound manner.
- The door design must permit use of the multi-point lock.

1.2.2 Locking part and hardware

- The use of any additional devices to keep the door closed (with the exception of a door closer) is not permitted. If a door closer is installed, it must not impede operation of the door by children, the elderly or infirm.
- Repair of the multi-point lock is not permissible. If the multi-point lock is damaged, it must be replaced by KFV or repaired by a service agent authorised by KFV.
- Only KFV frame parts with Q adjustment may be used.

1.2.3 Transport

- Always transport the multi-point lock in a vertical position, whether uninstalled or installed in the door leaf.
- Do not place the multi-point lock heavily on the ground when it is unpackaged, as this can damage the lock.
- Do not carry the door by the lever handle or hardware when transporting it.
- Opening/closing/locking: It must be possible to open and close the door easily. A protruding latch and /or deadbolt must not impede the opening of the door.


17 See note on page 17 for transport when installed in an element.

- The locking elements must always engage freely in the lock striker of the frame parts.

1.3 Improper use

- Do not use for escape doors.
- The multi-point lock is not designed to accommodate changes to its shape or seal which arise as a result of differences in temperature or changes to the building.
- The multi-point lock must not be used in doors for wet rooms or rooms in which the air contains aggressive or corrosive components.
- Foreign objects and/or materials which impede or prevent proper use must not be placed within the opening range, the locking system or the striker plates.
- The multi-point lock must not be interfered with and/or modified.
- Locking elements must not be misused to hold the door open.
- Movable or adjustable locking pieces (e.g. deadbolt, latch) must not be painted over.

1.4 Care and service instructions

- Regular annual maintenance should be carried out to ensure that all movable components are functioning correctly and are lubricated with non-corroding and non-resinous grease.
- Never use cleaning agents that are aggressive or contain solvents, as these may damage the surface of the components.
- Both the contractor and the user must be trained in the operation and maintenance of the multi-point lock.

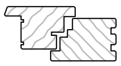
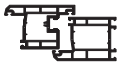
1.5 Installation conditions and requirements

- Local building laws and regulations must be observed before and during door installation in addition to the following requirements and conditions:
- Observe the milling dimensions
- Position the frame parts according to the specifications, observing the horizontal and vertical adjustment accurately.
- Before installing the multi-point lock, check the dimensional accuracy of the door and the door frame. The multi-point lock must not be installed if the door and/or the frame is warped and/or damaged.
- Install the multi-point lock and accessories according to our assembly instructions. Use the clamp included in the delivery supplied for assembly.
- Remove any splinters from the lock mortise after milling.
- Once the lock is installed, do not perform mechanical work on the door (such as drilling or milling). Do not drill into or through the main lock under any circumstances.
- Observe the specified positions and sizes when drilling the holes.
- Follow the hardware manufacturer's instructions when drilling the holes for the operating handle/hardware.
- Install hardware components and cylinder flush without overtightening the screws or screwing them in at an angle.
- Fasten handle set by hand only and do not use force when installing the spindle.
- Keep the distance between the secondary sash and frame parts:
  For 1-leaf doors: 2 to 6 mm
  For 2-leaf doors: 4 to 6 mm
- Operating elements should not impede each other.
- Check that any existing block setting is packed correctly.
- Surface treatment of the door and door frame must take place before the multi-point lock is installed. A subsequent surface treatment can reduce the functional capacity of the multi-point lock.
- Use only acid-free neutral-cure sealants to prevent corrosion of components and/or the door.

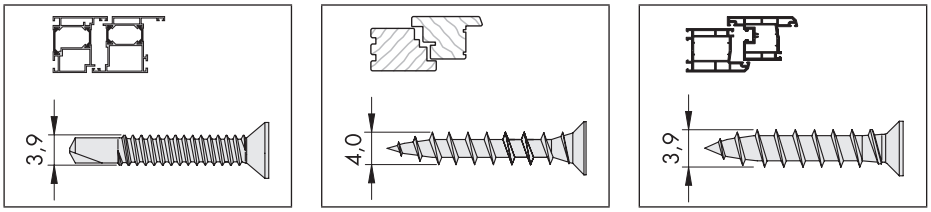
1.5.4 Dimensions

All measurements are given in mm.

1.6 Explanation of symbols

	Milling cutter or drill diameter		Through hole
	Groove length		for metal profiles
	Groove depth from component		for timber profiles
	Groove depth from profile		for PVC profiles

1.7 Screw recommendation



1.8 Instructions and symbols



6 See note on page 17 for transport when installed in an element.

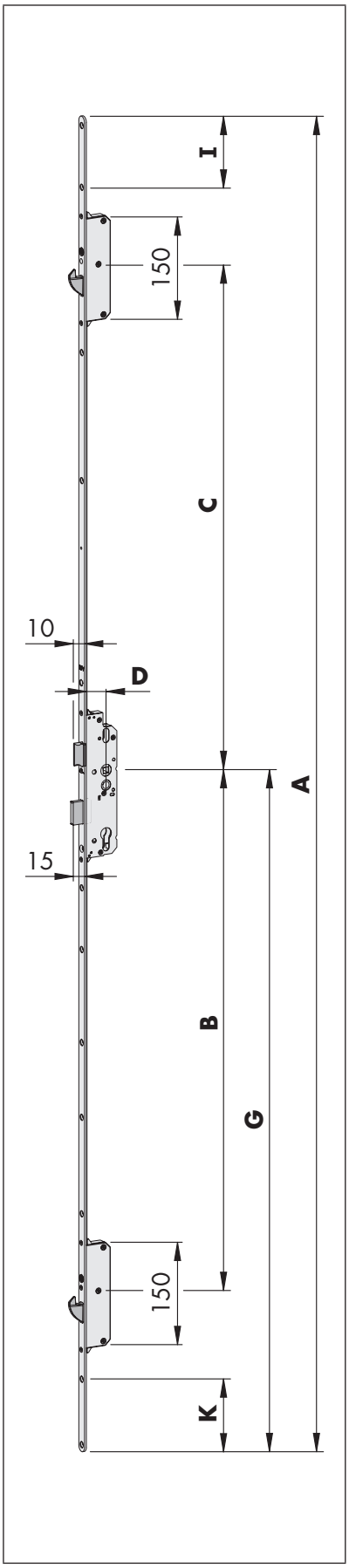
This symbol indicates that you should read information given at the relevant point of the instructions. The number in the grey field beside the symbol defines the page number.



Assembly according to the hardware manufacturer's instructions.

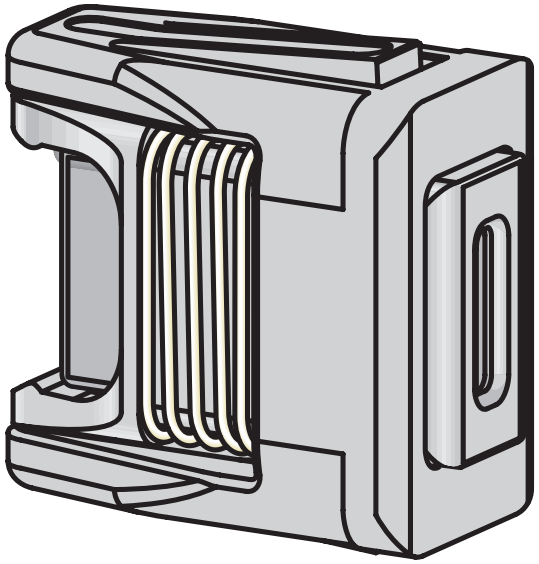
This symbol indicates special features and designates facts that require increased attention.

1.9 Component dimensions



Size ranges	A	B	C	G	I	K
B001	2170	760	730	1020	290	130
B003	2400	760	980	1020	270	130
B039	1700	760	355	952	263	62
B041	1700	760	605	952	13	62
B166	1855	760	730	952	43	62
B253	2170	760	980	952	108	62
B296	2170	760	355	1020	665	130
B298	2170	760	605	1020	415	130

Required accessories

Magnetic clip


For timber profiles

Material number	Material description	Contents (pieces)
3482034	MAGNETIC TRIGGER-3500-Q-SG-VE2	2
3482035	MAGNETIC TRIGGER-3500-Q-SG-VE10	10
3482036	MAGNETIC TRIGGER-3500-Q-SG-VE100	100

For PVC profiles with steel reinforcement and/or steel frame parts

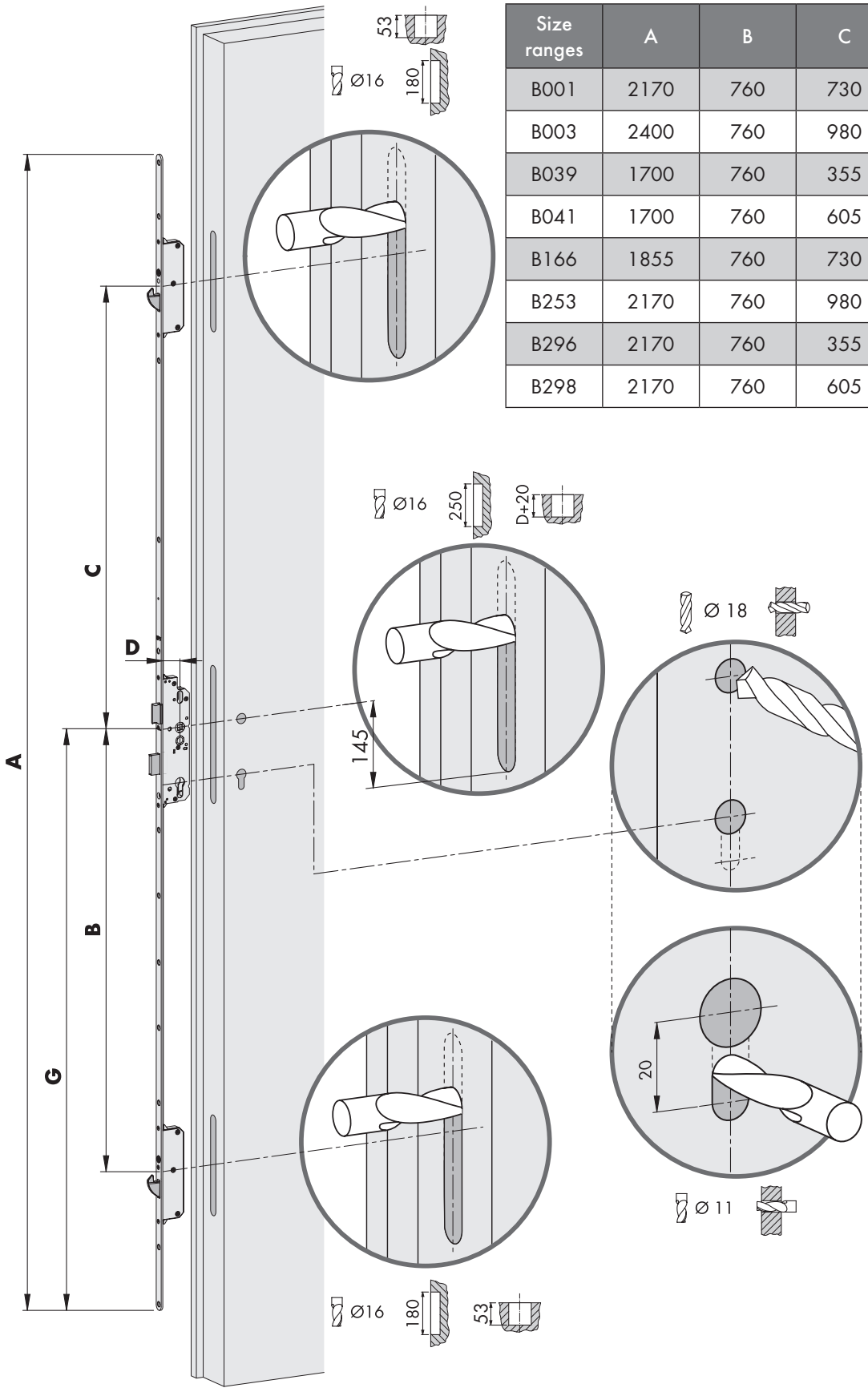
Material number	Material description	Contents (pieces)
3489830	MAGNETIC TRIGGER-3500-Q-S1-VE2	2
3489831	MAGNETIC TRIGGER-3500-Q-S1-VE10	10
3489832	MAGNETIC TRIGGER-3500-Q-S1-VE100	100

For PVC profiles with steel reinforcement and/or steel frame parts

Material number	Material description	Contents (pieces)
3491104	MAGNETIC TRIGGER-3500-V503-SG-VE2	2
3491105	MAGNETIC TRIGGER-3500-V503-SG-VE10	10
3491106	MAGNETIC TRIGGER-3500-V503-SG-VE100	100

2. Installation

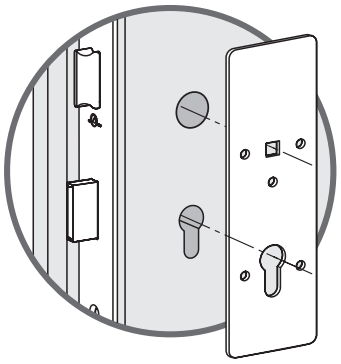
2.1 Cutting the door leaf

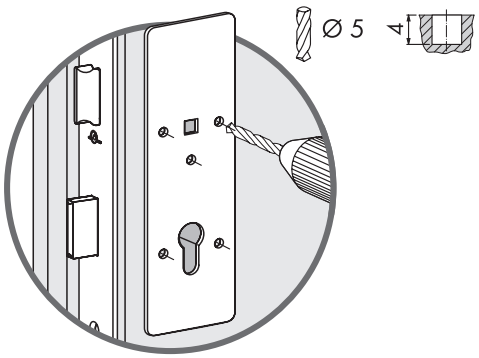


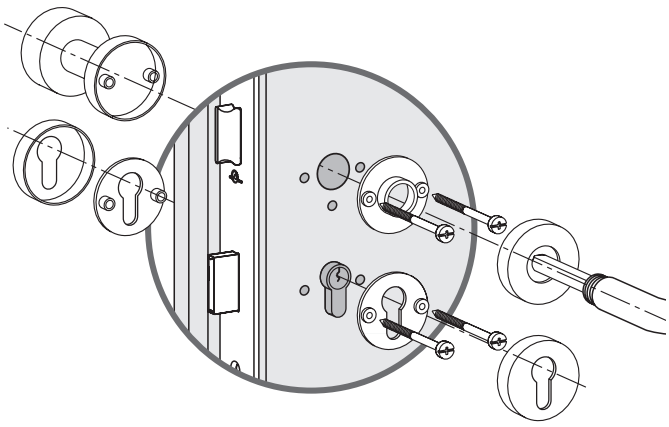
Size ranges	A	B	C	G
B001	2170	760	730	1020
B003	2400	760	980	1020
B039	1700	760	355	952
B041	1700	760	605	952
B166	1855	760	730	952
B253	2170	760	980	952
B296	2170	760	355	1020
B298	2170	760	605	1020

2.2 Pre-drilling the operating lever (optional)

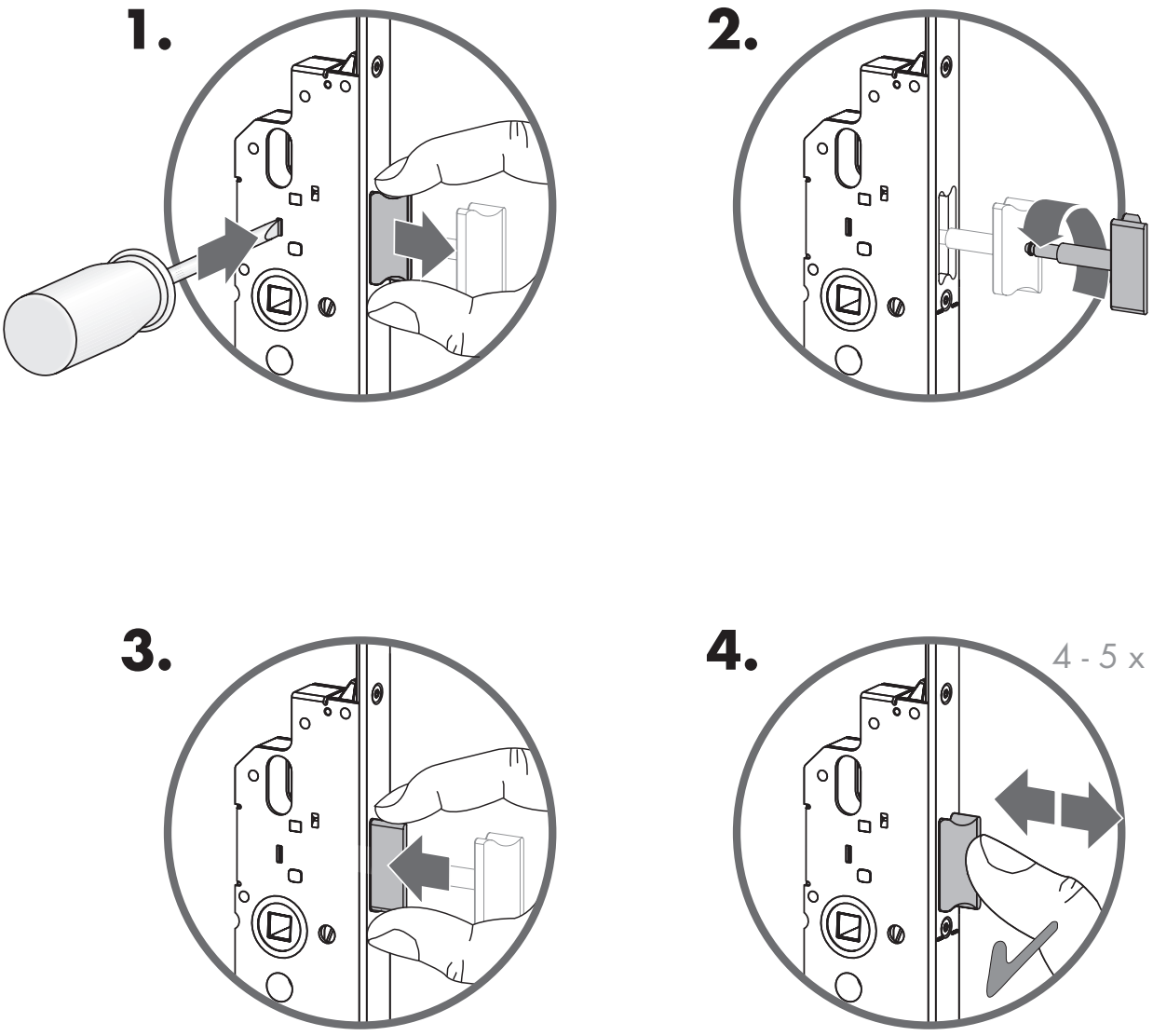
Assembly according to the hardware manufacturer's instructions.



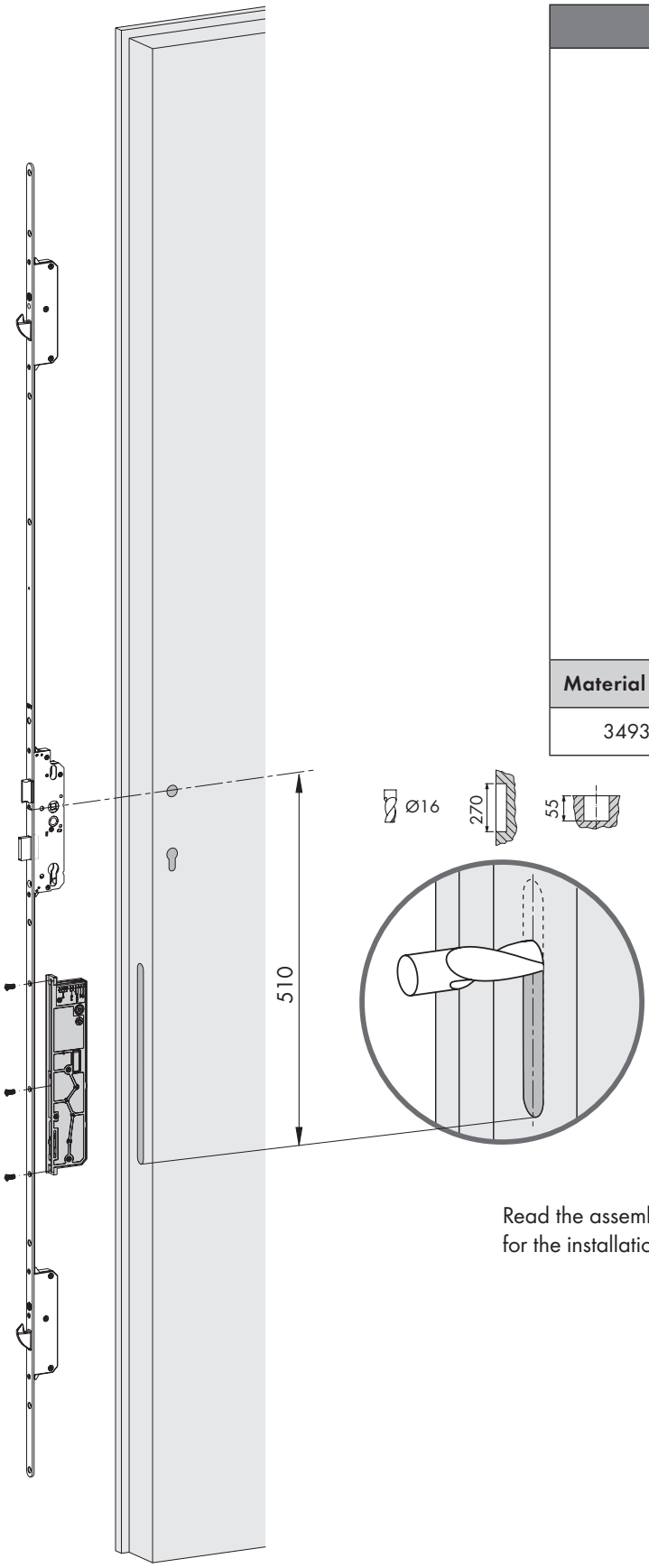




2.3 Repositioning the latch (optional)



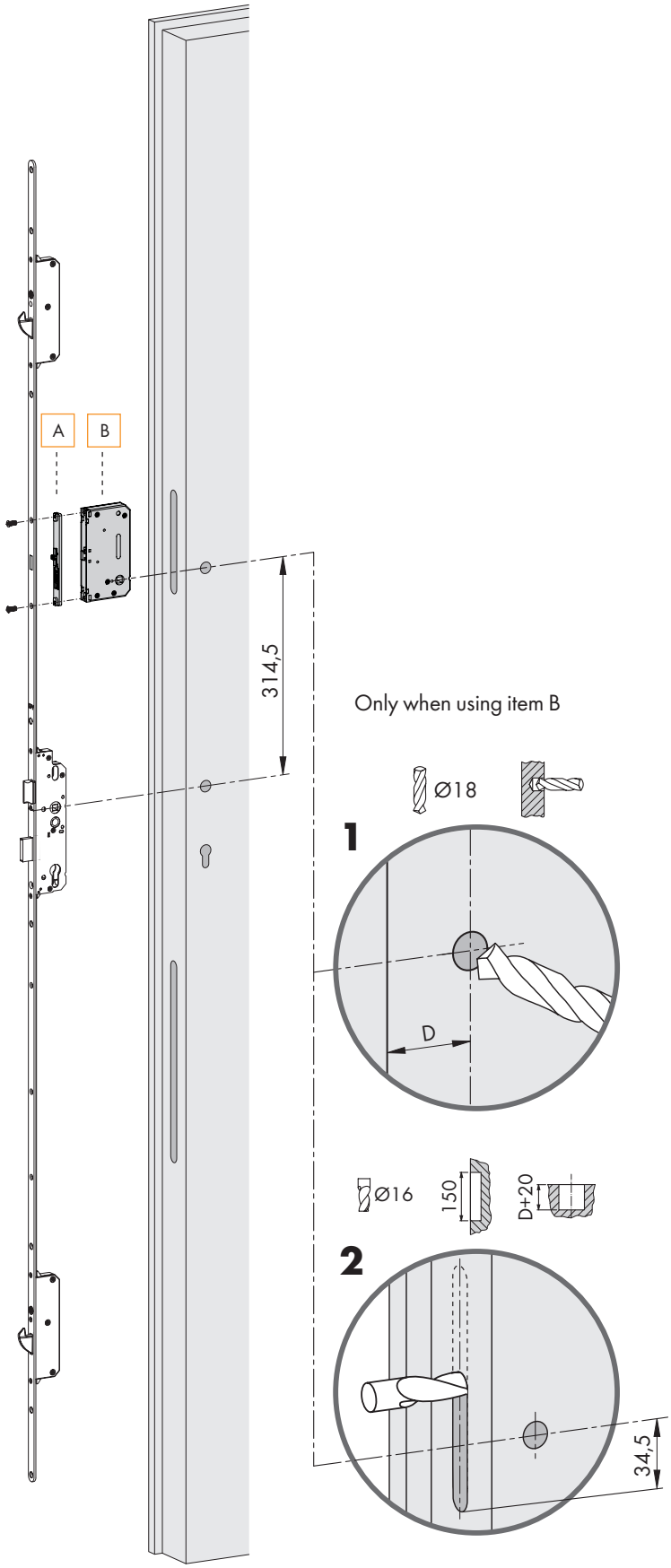
2.4 Installing the A-opener (optional)



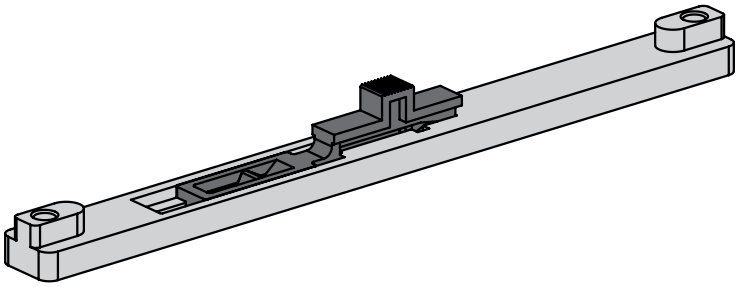
A-opener		
		
Material number	**Material description**	**Contents (pieces)**
3493787	F1060/A-opener 2.0	1

Read the assembly instructions “A-opener”
for the installation of the optional A-opener

2.5 Installing the door arrester or daytime release (optional)

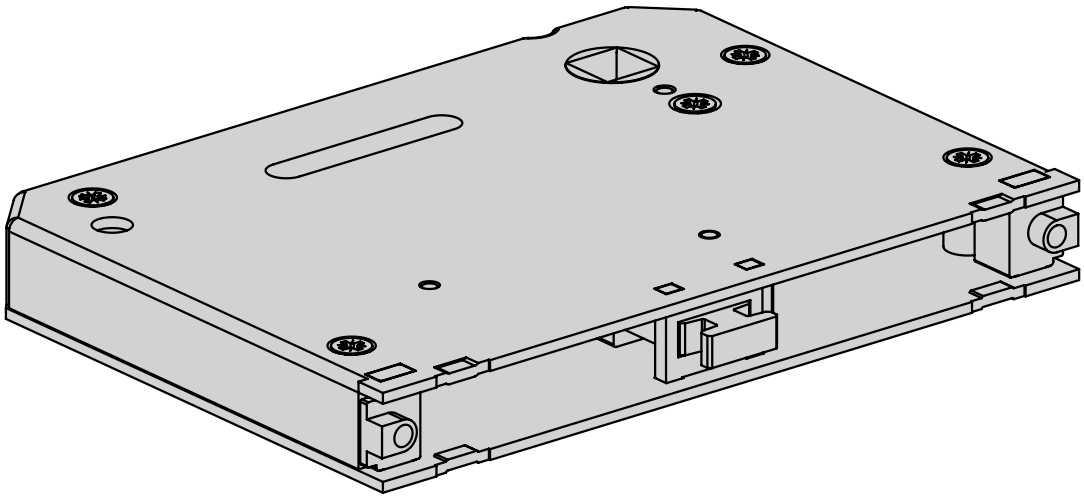


Required accessories

Daytime release
A 

Material number	Material description	Contents (pieces)
3485984	ZSK 201-T0-8060/—E	1

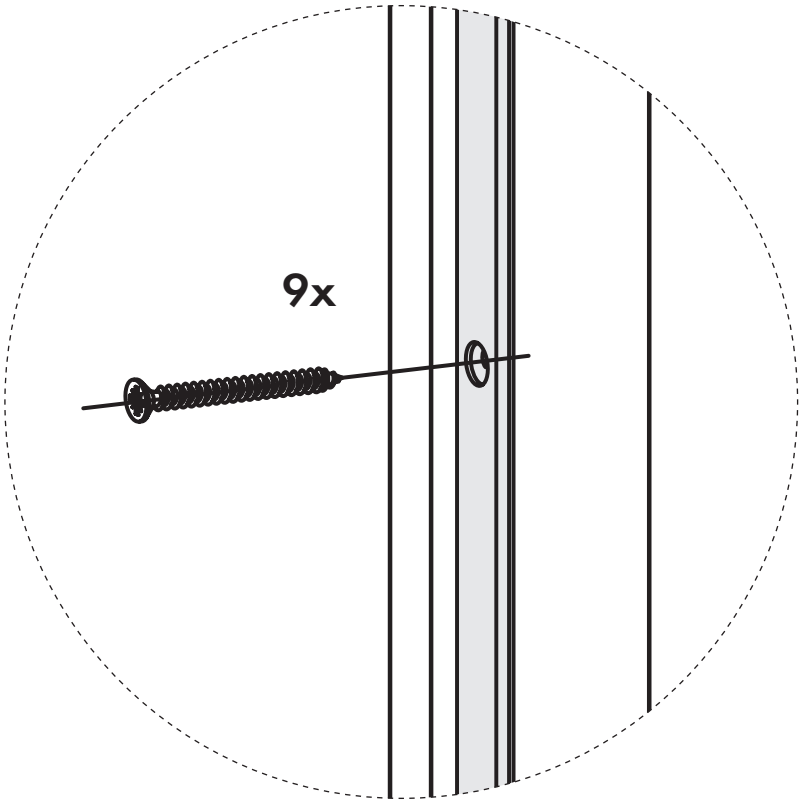
or

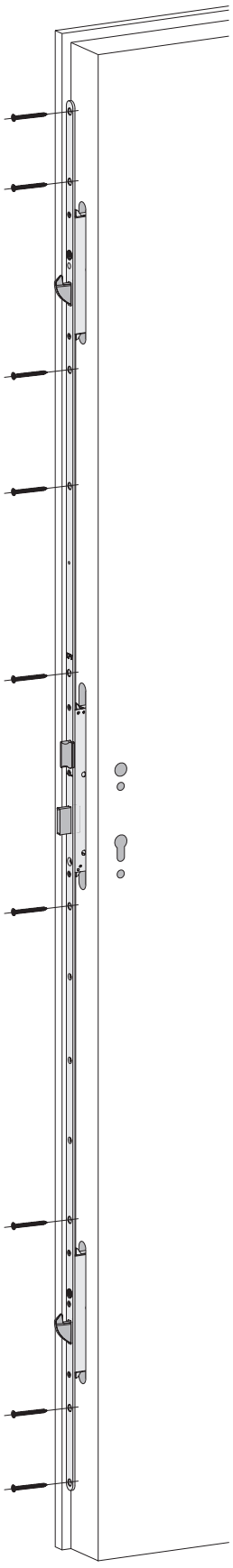
Door arrester T3
B 

Material number	Material description	Contents (pieces)
3483983	ZSK 201-T3-8063/VS35—E	1
3483984	ZSK 201-T3-8063/VS40—E	1
3483985	ZSK 201-T3-8063/VS45—E	1
3483986	ZSK 201-T3-8063/VS50—E	1
3483987	ZSK 201-T3-8063/VS55—E	1
3483988	ZSK 201-T3-8063/VS60—E	1
3483989	ZSK 201-T3-8063/VS65—E	1
3483990	ZSK 201-T3-8063/VS80—E	1

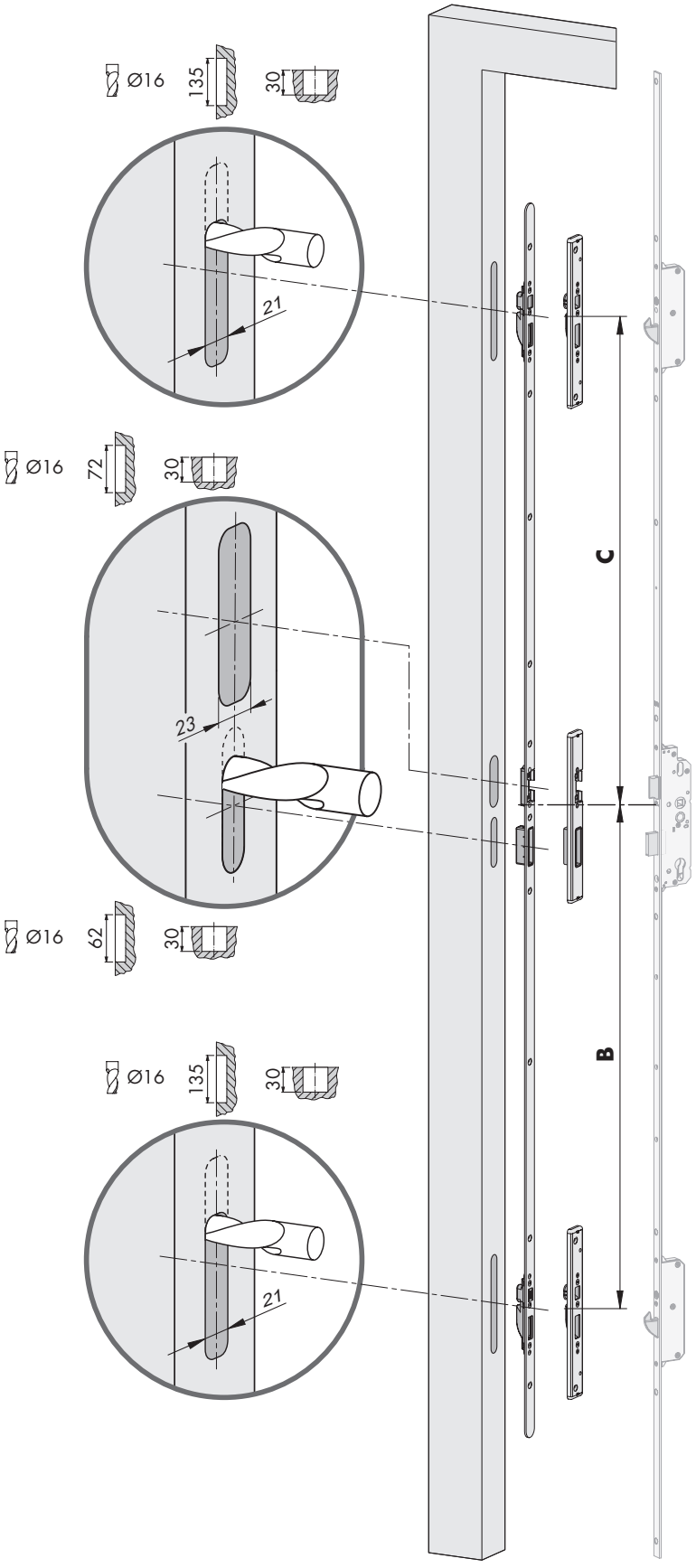
Either the daytime release or the door arrester can be installed. It is **not possible** for both to be installed.

2.6 Screwing on the multi-point lock



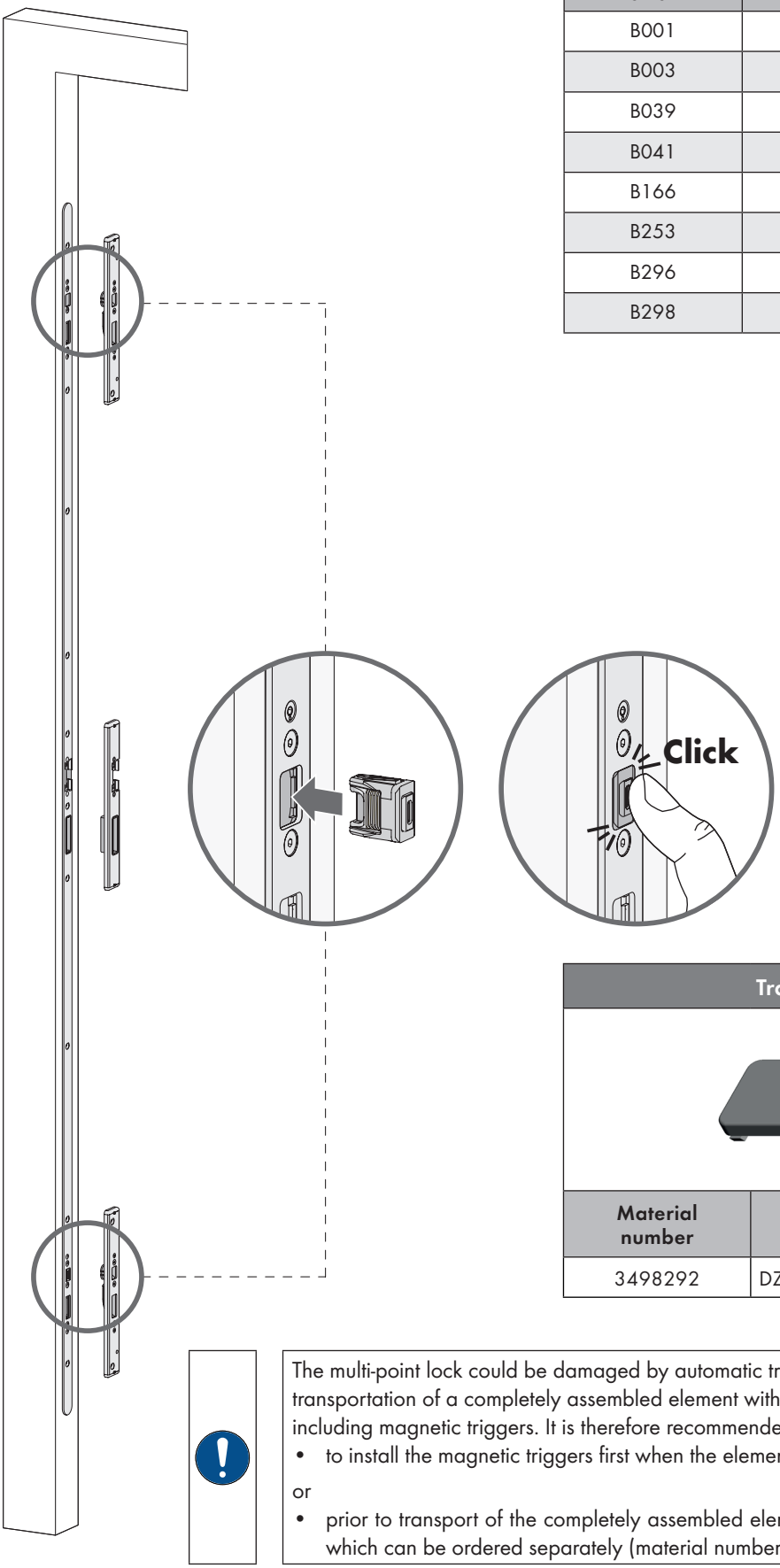


2.7 Cutting the door frame



2.8 Installing the magnetic clip

Dimension variant	B	C
B001	760	730
B003	760	980
B039	760	355
B041	760	605
B166	760	730
B253	760	980
B296	760	355
B298	760	605



Transit support		
		
Material number	**Material description**	**Contents (pieces)**
3498292	DZM 498-2300-U-Q/ZM	1

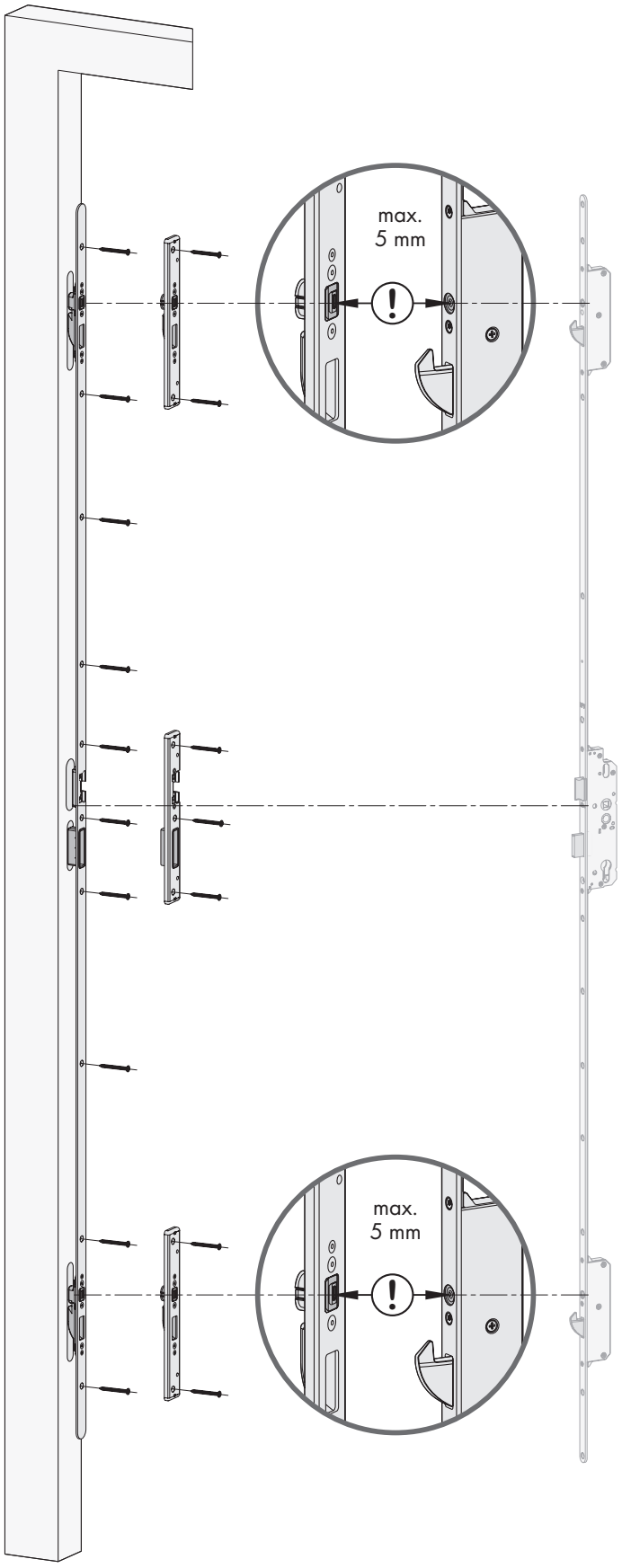
The multi-point lock could be damaged by automatic triggering of the hook bolts during transportation of a completely assembled element with the AS3500 multi-point lock including magnetic triggers. It is therefore recommended:

- to install the magnetic triggers first when the element is installed on site.

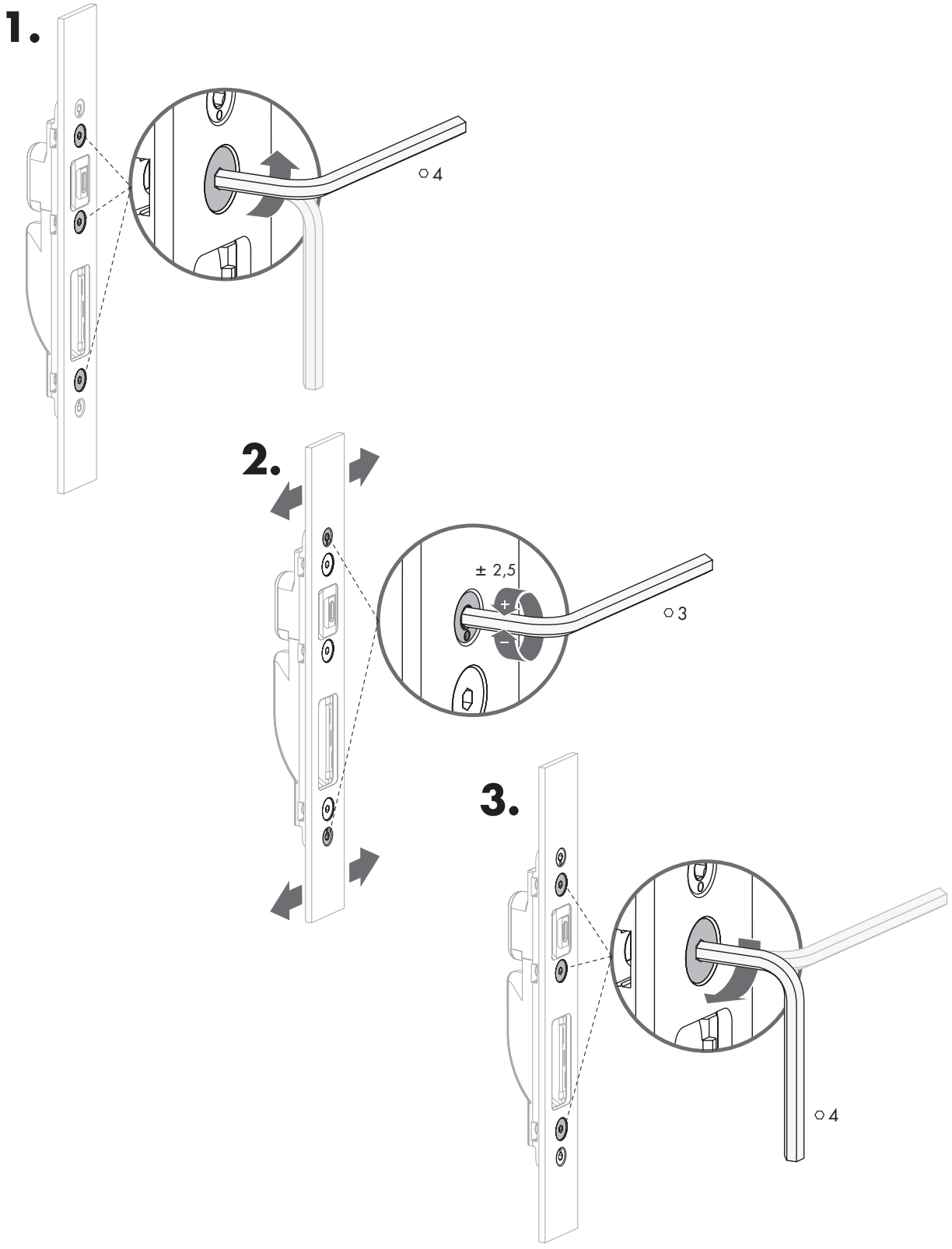
or

- prior to transport of the completely assembled element, to use the transport supports which can be ordered separately (material number 3498292).

2.9 Screwing in the frame parts



2.10 Adjusting the frame parts



2.11 Functional test



In order to check the functionality, the door and the door frame must be positioned vertically.

2.11.1 Checking functionality when the door is open:

Check that all fixing screws are secure:

- Use a screwdriver to ensure that all fixing screws are fully screwed in. Screws should not be screwed in too tightly or over tightened.

Check the lever handle functionality:

- Press the lever handle down fully. The lever handle must return to its original position by itself.

Check the functionality of the latch:

- Press the lever handle down fully. The angle of activation is approx. 30°, as first the hook bolt and then the main lock latch are retracted to minimise the activation forces. The latch must retract when the lever handle is pressed. When pressed in, the latch should only protrude a maximum of 2 mm over the lock faceplate.
- Turn the key in the cylinder lock in the opening direction. The latch must retract when the key is turned.

Check the function of the deadbolt:

- Turn the key in the cylinder lock in the locking direction. It must be possible to disengage the main deadbolt fully and easily.
- Remove the key when the main deadbolt is disengaged. It must be possible to remove the key when the main deadbolt is disengaged (one turn of the key).

2.11.2 Checking functionality when the door is closed

Repeat the steps listed in the functionality test for an open door from "Checking the lever handle functionality:".

If stiffness is determined during the functionality test:

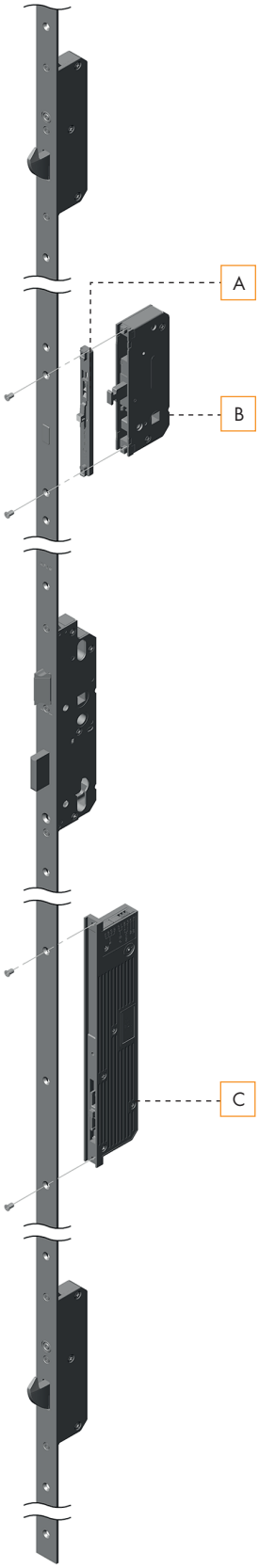
- Check the tightening torque of the fixing screws on the handle set and/or the profile cylinder lock.
- Screws must not be screwed in too tightly or over tightened.
- Screws should also not be screwed in at an angle. This is to avoid the screw head blocking the drive rod behind it.

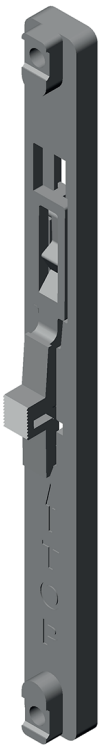


Adhere to the screw torque specified by the manufacturer.

3. Optional additional functions

3.1 Daytime release “TE”



Daytime release “TE”
A 

Material number	Material description	Contents (pieces)
3485984	ZSK 201-TE-8060	1

A separately available daytime release can be retrofitted to all AS 3500 multi-point locks with the supplementary designation “T0”. This deactivates the automatic function so that the hook bolts are not triggered.

Activation:

1. Press the lever down vertically and hold down.
2. Move the slider up on the faceplate vertically.
3. Set the handle of the E-opener or the KFV daytime latch 115 A/B to daytime operation.

The AS 3500 multi-point lock cannot be locked with the key when the daytime release activated. This ensures that all locking elements are only triggered when the door is locked.

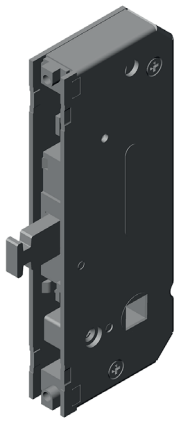
Deactivation:

1. Press the lever down vertically and hold down.
2. Move the slider down on the faceplate vertically.
3. Set the handle of the E-opener or the KFV daytime latch 115 A/B to night operation.

3.2 Safety lock “T3”

Safety lock “T3”

B



Material number	Material description	Contents (pieces)
3483983	ZSK 201-T3-8063/V-35	1
3483984	ZSK 201-T3-8063/V-40	1
3483985	ZSK 201-T3-8063/V-45	1
3483986	ZSK 201-T3-8063/V-50	1
3483987	ZSK 201-T3-8063/V-55	1
3483988	ZSK 201-T3-8063/V-60	1
3483989	ZSK 201-T3-8063/V-65	1
3483990	ZSK 201-T3-8063/V-80	1

Safety lock “T3”

A safety lock can be installed instead of the daytime release “TE”. This limits the activation of the opening gap of the door.

In addition, separate frame parts, designed for the respective door system, with a security catch and the “T2” attachment defined in the material description are required.

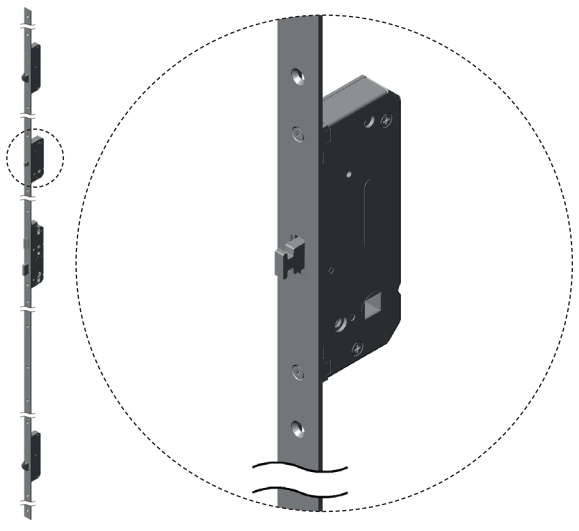
The “T3” door safety lock is available for all standard backsets of the AS 3500 multi-point lock from 35 to 80 mm. In this way, the lever handle and the turn button for the safety lock are arranged on a visual axis. The metric fixing screws (countersunk, 8 mm) are provided with the safety lock.

Operation

The “T3” safety lock is activated from the inside by rotating the turn button 90° in the direction of the frame parts (not included in the delivery program of KFV). The door is opened by a 90° rotation in the opposite direction.

3.3 Safety lock “T4”

Safety lock “T4”



Safety lock “T4”

The AS3500 multi-point lock can also be equipped with the “T4” safety lock (only available preassembled ex works) instead of the retrofittable “T3” safety lock. The function is equivalent to that of the “T3” safety lock and an additional feature is that it can be opened from outside via the cylinder lock. The installation of the “TE” daytime release is not possible in this case.

3.4 A-opener

A-opener [C]		
C 		
Material number	**Material description**	**Contents (pieces)**
3493787	ZEM F1060/A-opener 2.0	1

A-opener

Each AS 3500 multi-point lock can be upgraded to an electromechanical multi-point lock using the A-opener motors (available for purchase separately).

Functional mode

Automatic mechanical locking, electromechanical release.

The hook bolts of the auxiliary box and the latches are retracted into the main lock in case of electromechanical opening. The deadbolt in the main lock is not locked in this opening procedure.

The motor is fixed with three screws (included). If the motor is not installed, the screw holes are covered by three normal fixing screws (8 mm countersunk head).

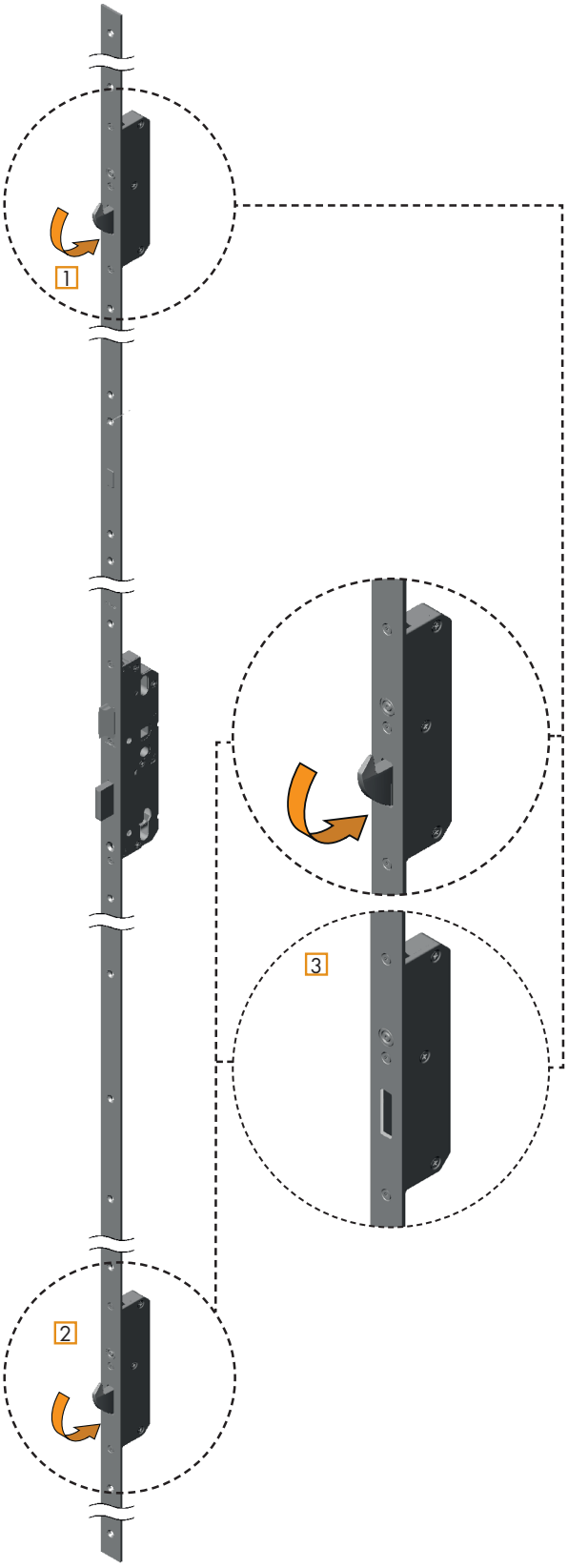
Enables connection to an intercom system or access control system. These connection options correspond to KFV Genius type A.

Cable transfers and accessories from the well-known KFV Genius programme are compatible, and assembly and connection are similar. KFV A-openers do not require a reed contact and no magnet is required on the frame side.

4. Appendix

4.1 Use

Automatic locking and unlocking by lever handle or key

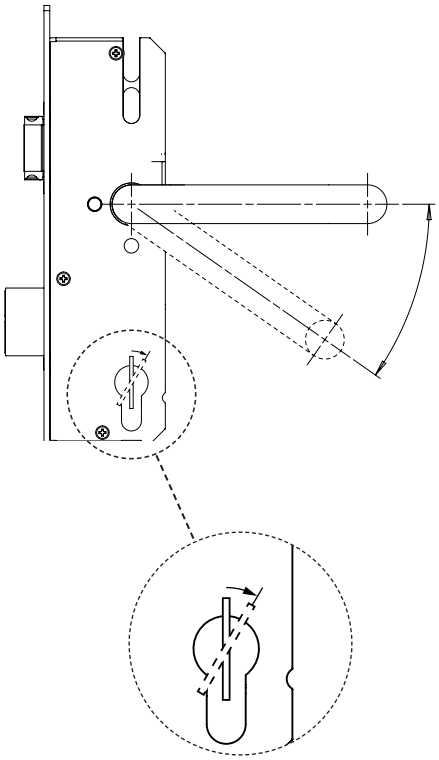


If the door is closed, the hook bolts [1] and [2] in the auxiliary box are automatically triggered by the magnets in the frame parts and disengage 20 mm. They are secured against back-pressure in the end position. In this situation, the door can be opened in 2 ways:

1. **From outside via the cylinder lock**
   To secure the safe function, the key must be turned in the opening direction until it reaches the noticeable stop and held in this position until the door opens by a gap of approx. 50 mm.

2. **From inside via the lever handle**
   To secure the safe function, the lever handle must be moved down (by ca. 30°) until it reaches the noticeable stop and held in this position until the door opens by a gap of approx. 50 mm.

This will ensure that the hook bolts remain locked until the next automatic triggering in the additional box [3]!



4.2 Liability

4.2.1 Intended use

Any use of this product that is not in accordance with its intended use, or any adaptation of or modification to the product and its associated components for which our express consent has not been obtained, is strictly prohibited. We accept no liability whatsoever for any material losses or injury to people caused by failure to comply with this stipulation.

4.2.2 Product liability

Our products are guaranteed – subject to correct installation and proper use – for a period of one year from the date of receipt by a company (according to our general terms and conditions) or as otherwise agreed, and for a period of two years for end consumers, in accordance with statutory provisions. As part of our ongoing improvements, we reserve the right to replace individual components or entire products. Consequential losses resulting from defects are excluded from the warranty within the limits of the law. The warranty shall become void if modifications that are not authorised by us or have not been described in this documentation are performed on the product and/or individual components, or if the product and/or individual components is/are dismantled or partly dismantled, and the defect is due to the changes made.

4.2.3 Exclusion of liability

The product and its components are subject to stringent quality controls. As a result, they function reliably and safely when used correctly. Our liability for consequential losses and/or claims for damages is excluded, except in the case of wilful misconduct or gross negligence, or where we are responsible for injury to life, physical injury or damage to health. Strict liability under the German Product Liability Act (Produkthaftungsgesetz) remains unaffected. Liability for the culpable violation of significant contractual obligations also remains unaffected; liability in this case is limited to losses that are specific to the contract and that could have been foreseen. The above regulations do not imply a change in the burden of proof to the detriment of the consumer.

SIEGENIA®
brings spaces to life

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H39.MFVRKFV0001EN-03/2016-04