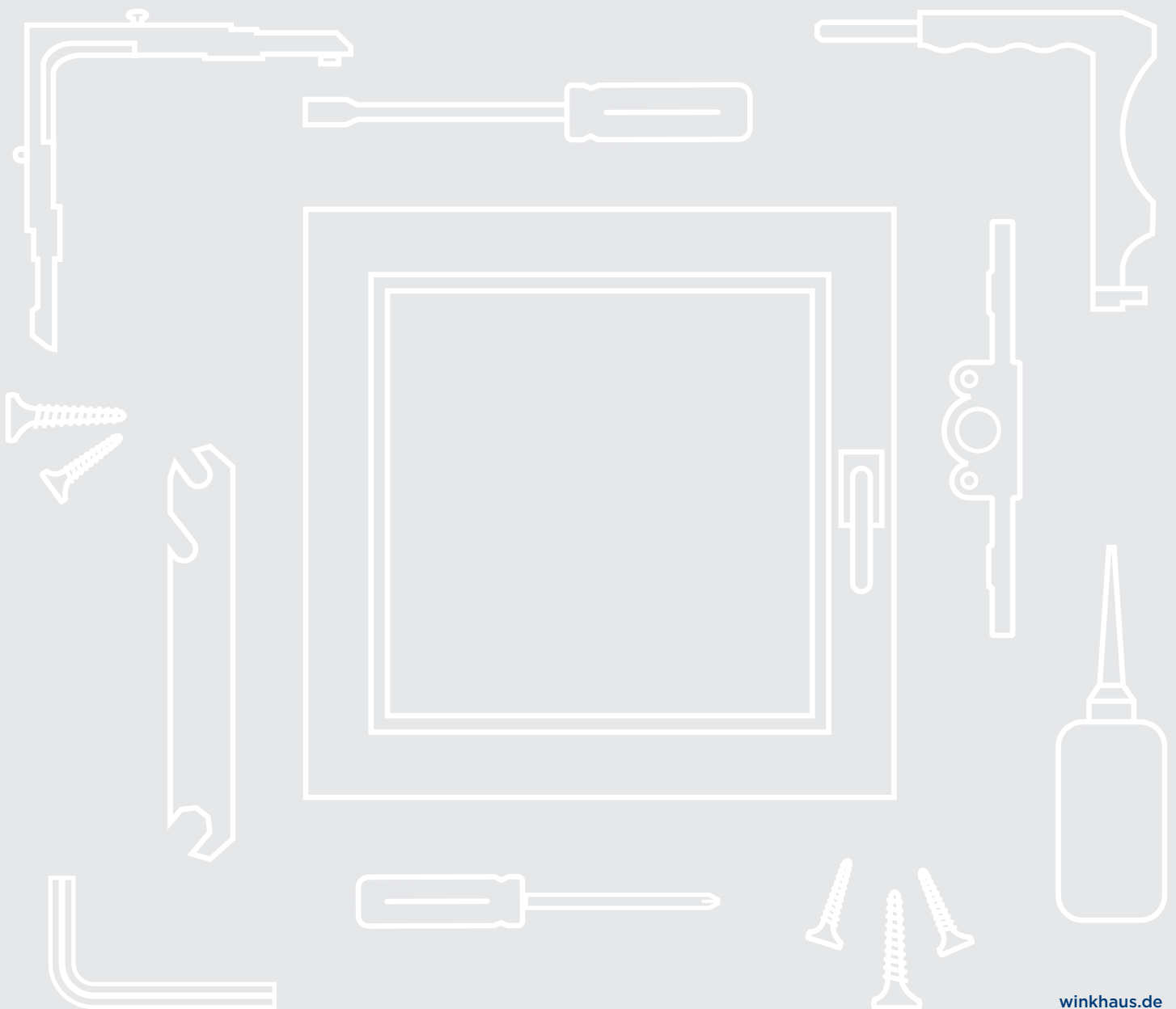


User Guide
04/2019

activPilot Topstar

Operating and maintenance manual for the window company



Operating and maintenance manual for the window company

General notes and safety advices

These instructions are intended for the specialist window company. They describe essential adjustment and maintenance work for the activPilot fittings. Please observe the following notices: Fitting parts are to be tested regularly to ensure they are seated firmly and checked for wear. Fastening screws are to be retightened and parts replaced as necessary. Their functionality is to be retested afterwards. Fittings may only be cleaned with mild, ph-neutral cleaning agents in diluted form. Use only cleaning agents which do not degrade the corrosion protection on fitting parts. Never use aggressive, acidic or caustic cleaners, scouring agents or sharp objects to clean fitting parts. Always also observe the guideline for product specifications/notices and liability (VHBH) when making adjustments or performing maintenance. This information can be obtained at the following Internet address: <http://www.beschlagindustrie.de/ggsb/richtlinien.asp>

Operation / operating sequence

Turn-tilt window

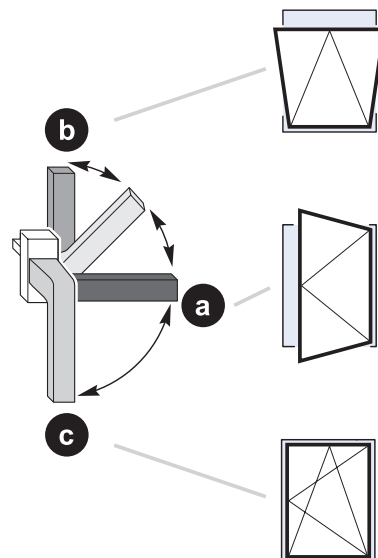
Operating the turn-tilt window

See figure: Turn-tilt window

- Push the handle down (c). The window is closed.
- Move the handle to the central position (a). The window is unlocked; the sash can now be opened fully.
- Close sash. Push the handle up (b). The window is unlocked; the sash can now be tilted.



Note: Optionally turn-tilt windows can be equipped with a mini ventilation function. By turning the handle in between the shown positions (a) and (b), this component is addressed. Different tilt angles of the sash can be achieved by arresting the fitting components.



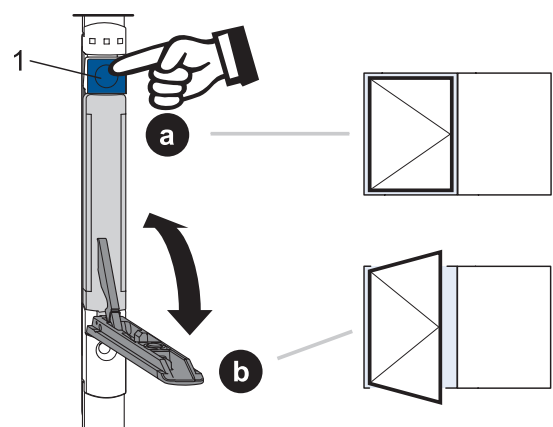
Turn-tilt window

Double-sash window

Operating the double-sash window

See figure: Double-sash window

Press the unlocking button (1) and pull down the lever so it's in the end position (b; opening angle approx. 135 °). The window is unlocked; the sash can be fully opened. Close sash. Return lever to original position (a). The window is closed.



Double-sash window

Fitting the sash

Installing sash at the bottom

See figure: Corner and Sash Hinges

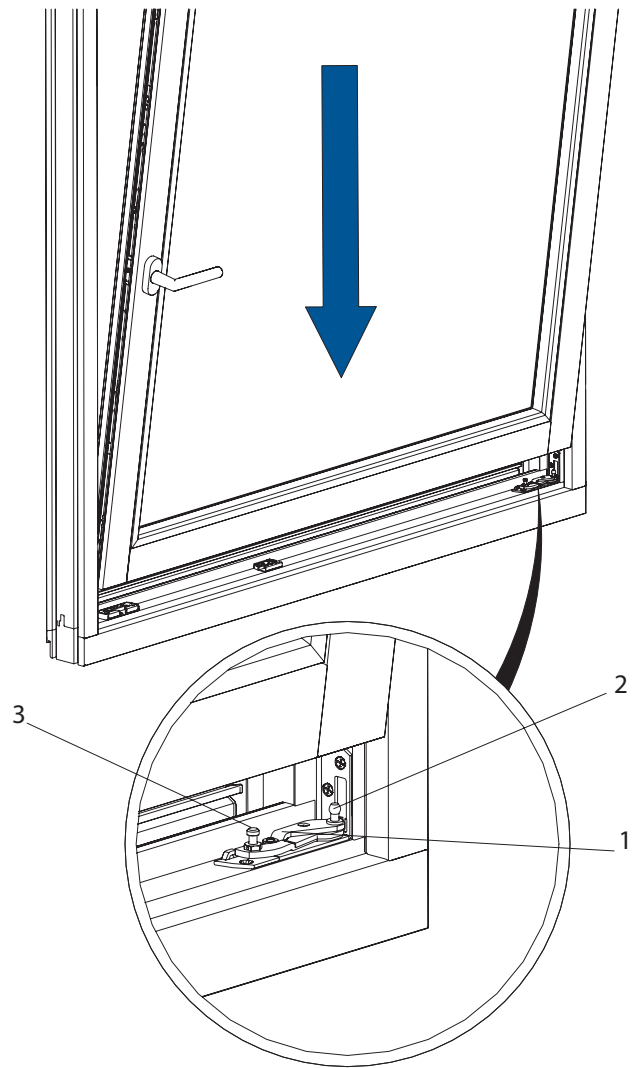
- Adjust the fitting to "Turn" position.
- (If there is a fail-safe device, disconnect it.)
- Adjust the corner hinge brackets (1) to the "closed" position.
- Pivot the mount securing device (see figure "Installing the sash at the top"; position 1) 90° outwards and pivot the shear into the frame rebate.
- Lower the sash in a slightly tilted position to the brackets (1).
- Insert bolt (2) in the sash hinge top hinge point while inserting the bolt (3) in the sash hinge groove at the same time.



Caution: Secure the window sash against falling. Take the heavy sash weight into account! Two people should carry the sash if necessary.



If a turn limiter should be used, it must be ensured that it is pivoted inward before the sash is attached. In doing so, damage to the window frame can be avoided!

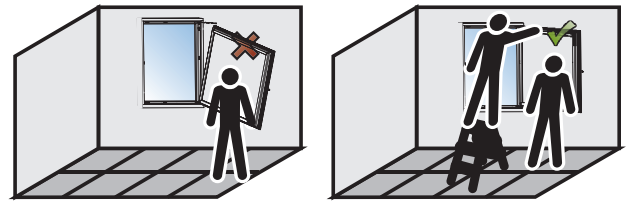


Corner and Sash Hinges

Support the sash!



Open the sash to a 90° turn position and support!



Support the sash!

Engaging the sash at the top

See figure: Engaging the sash at the top

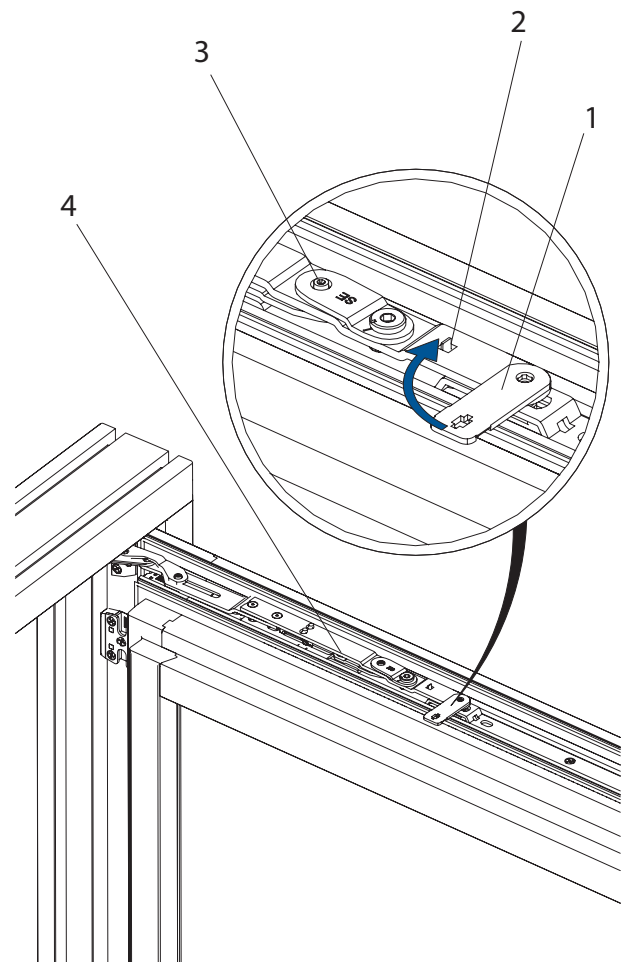
- Open the sash (only surface-mounted on the bottom frame hinge) to a 90° turn position.
- (If there is a fail-safe device, disconnect it.)
- Turn the window handle to the tilt position.
- Open shear 90° and place over the retaining bolt (4) on the top rod.
- Press in the shear bolt (3) into the opening in the counter bracket.
- Press the hammer head bolt into the elongated hole on the top rod. The shear arm should be flush with the top rod.
- Swivel the mount securing device (1) into position by hand, so that the stop spring (2) clicks into place.
- Set fitting to "Turn" position. Then check whether the shear is securely fastened to the top rod and the sash hinge to the corner hinge.



Warning! Risk of Injury. The sash can fall out and cause injuries if the shear and top rod are not securely fastened. It is important to ensure the stop spring is firmly in position (clicking sound).



The mount securing device (1) must be pivoted by hand – without the use of tools, such as a hammer, screwdriver, etc. – such that the safety spring (2) detents.

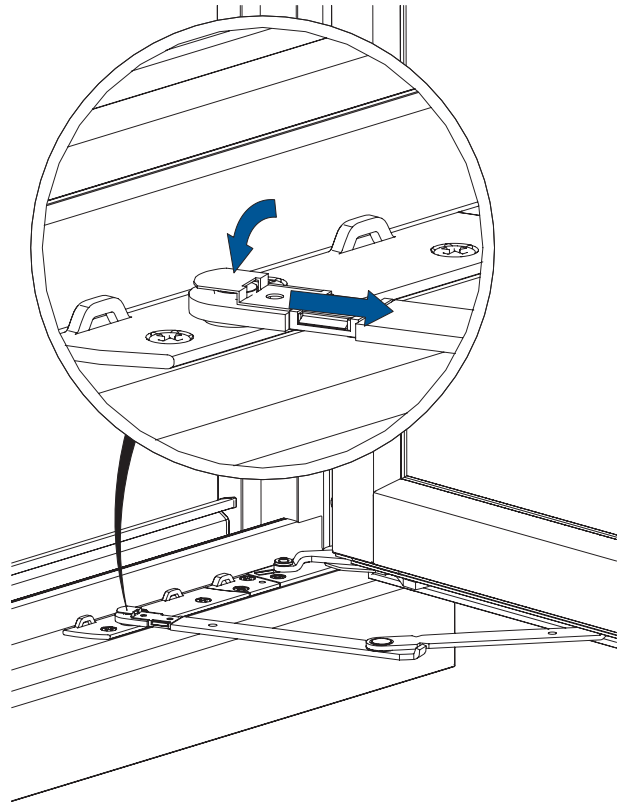


Engaging the sash at the top

Install turn limiter

See figure: Install turn limiter

- Place the turn limiter arm on the retainer pin, so that the stop spring clicks into place behind the retainer pin.
- It is important to ensure the stop spring is firmly in position (clicking sound).



Install turn limiter

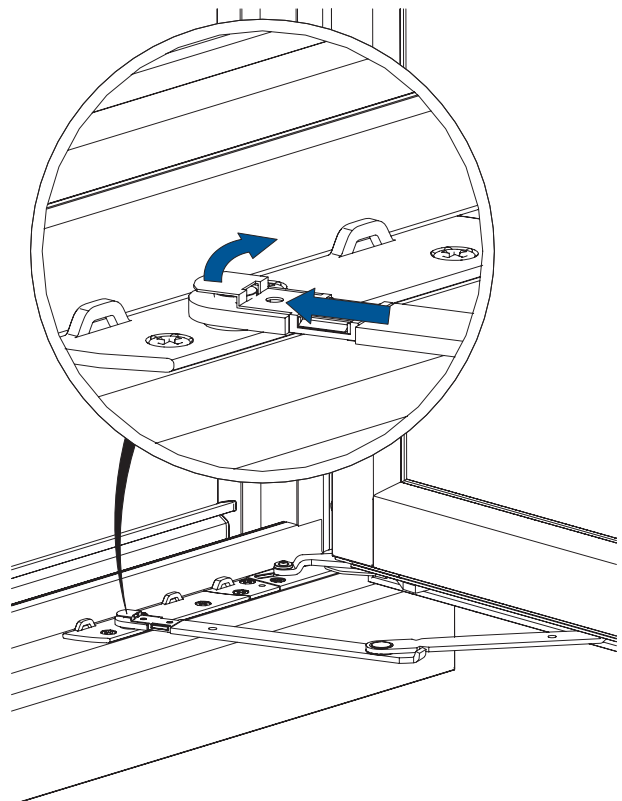
Removal of the sash

Detaching the turn limiter

See figure: Detaching the turn limiter

Preparation:

- Move the sash into the 90° turn position.
- Detaching the turn limiter

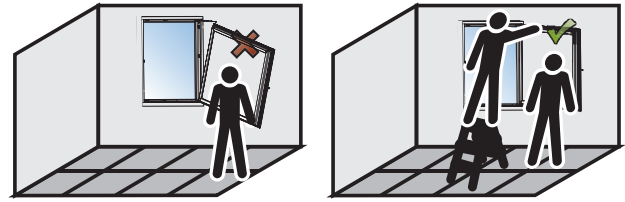


Detaching the turn limiter

Support the sash!



Open the sash to a 90° turn position and support!



Support the sash!

Unlocking the mount securing device

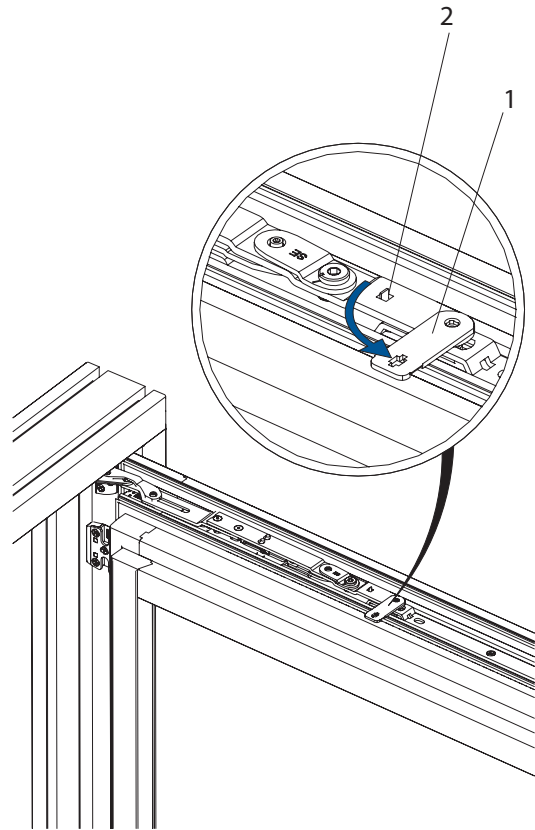
See figure: Remove the sash

Unlocking the mount securing device (1) of the shear:

- Press down the stop spring (2) with a screwdriver while swivelling the mount securing device (1) outwards 90° at the same time.



Caution: Secure the window sash against falling. Take the heavy sash weight into account! Two people should carry the sash if necessary.

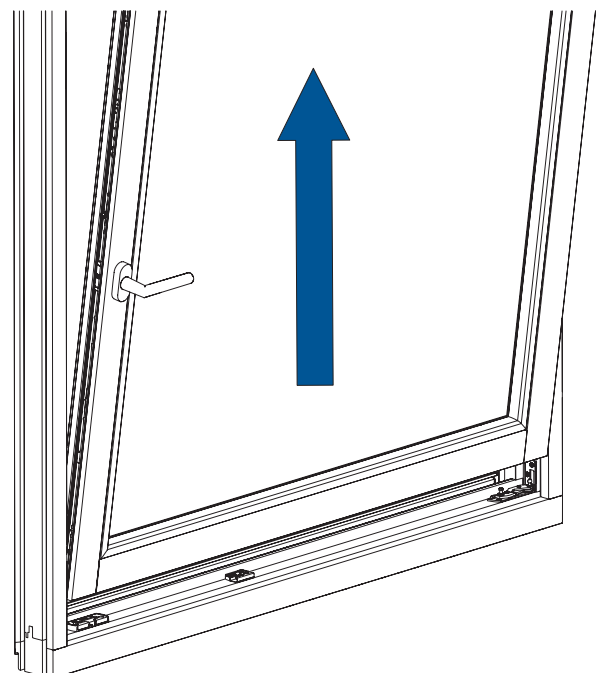


Remove the sash

Lifting the sash out of the bottom frame hinge

See figure: Removing the sash

- Pivot the uncoupled shear arm into the frame rebate.
- Move the sash (only surface-mounted on the bottom frame hinge) to a nearly closed position.
- Tilt the sash slightly and lift it up out of the bottom frame hinge.

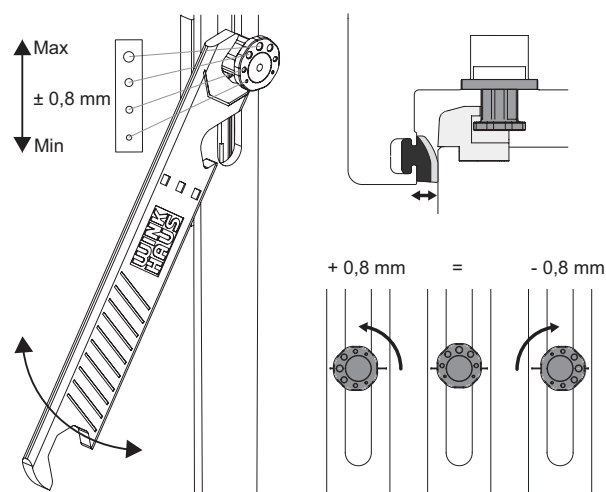


Lifting the sash out of the bottom frame hinge

Adjustment options

Octagonal bolt

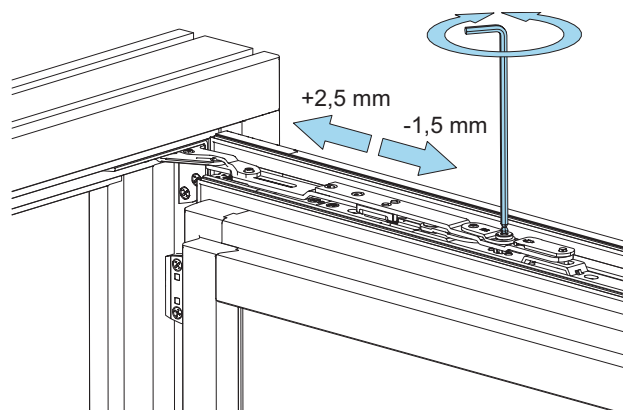
Regulate the contact pressure between the sash and the frame (± 0.8 mm) by turning the octagonal bolt. The adjustment can be carried out by means of the Winkhaus adjustment key (V.ST.SCH.HV-11) .



Octagonal bolt

Shears

The sash is raised and lowered by adjusting the shear slide-way. The sash can be raised 2.5 mm and lowered 1.5 mm.



Shears

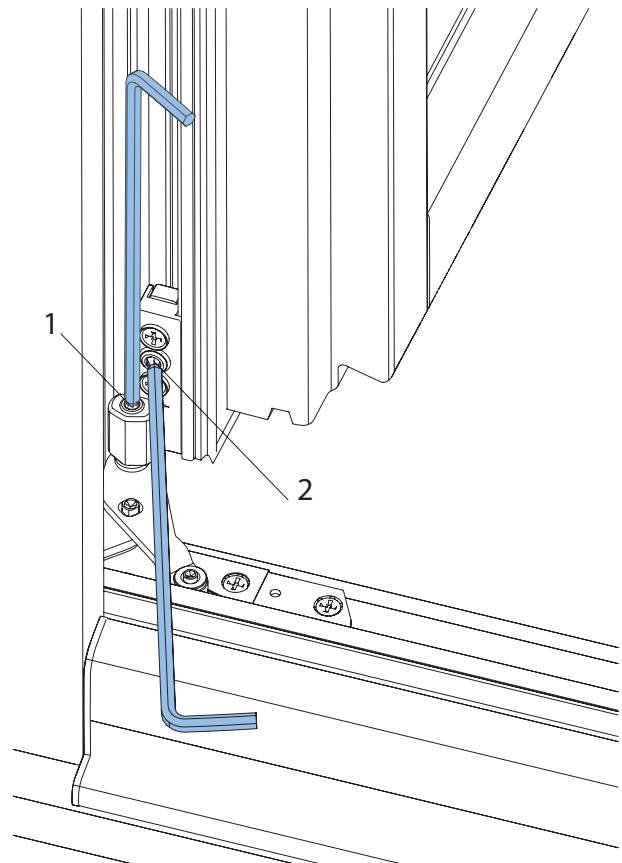
Adjustment options

Height and side adjustment

Corner and Sash Hinges

Adjustment tool: Allen key with ball head (size 4)

- Height adjustment +2 mm / -1.5 mm (1)
- Side adjustment +2.5 mm / -1.5 mm (2)



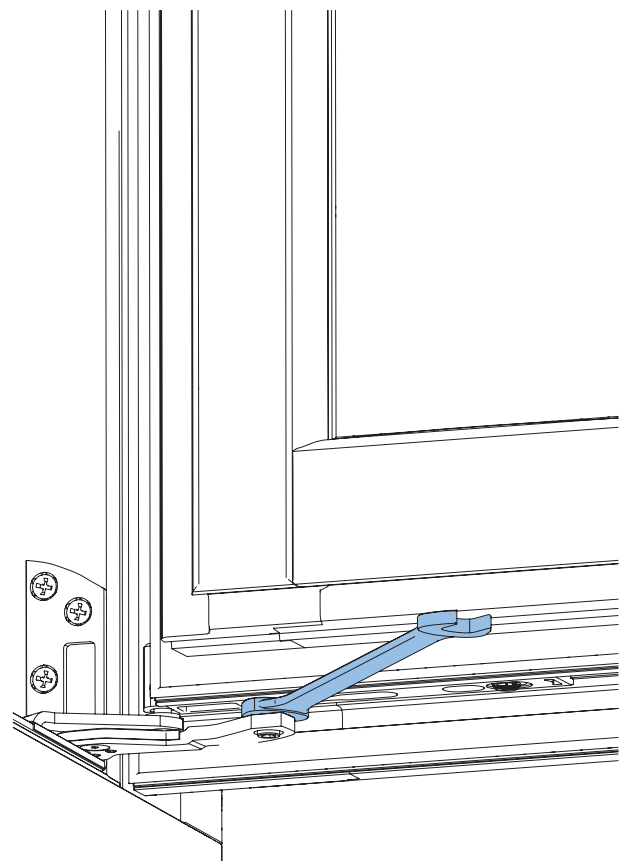
Height and side adjustment

Contact pressure adjustment

Sash hinge

Adjustment tool: Open-ended spanner (size 10)

- Pressure adjustment ± 0.8 mm



Contact pressure adjustment

Maintenance

Lubrication points

See figure: Overview of lubrication points

The figure shows the location of possible lubrication points which should be lubricated at least once a year.

Positions A, C, D = lubrication points relevant to function.

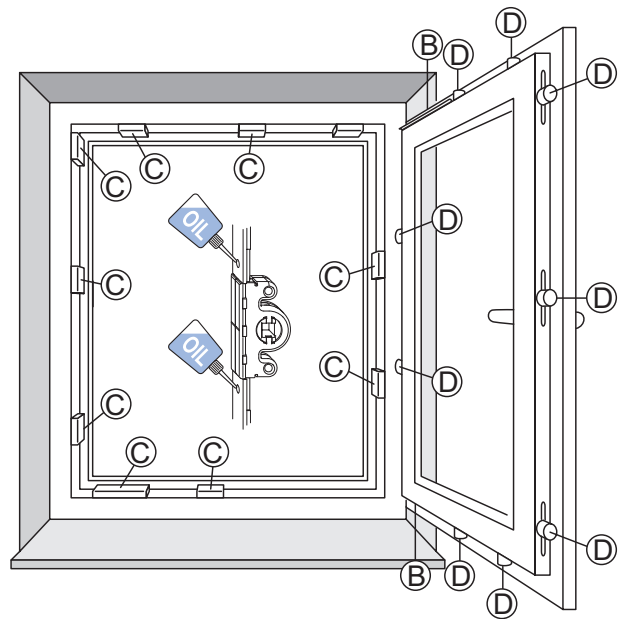
Position B = safety-relevant lubrication point



Please note: The fitting schematic shown adjacent does not necessarily match the existing fitting. The number of locking positions will vary depending on size and type of the window sash.



Attention! Risk of injury. The window could fall on removal and thus injure persons. Do not remove the window for maintenance.



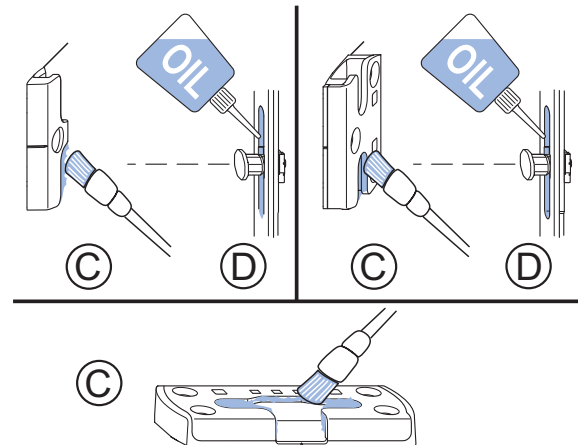
Overview of lubrication points

Keeps

See figure: Lubrication points

To keep fittings running smoothly, you must lubricate the keeps at least once a year.

- Lubricate the keeps (C) at the run-in side with technical Vaseline or any other suitable grease.
- Coat the running surfaces of the locking bolts (D) with an oil that is free of resins and acids.

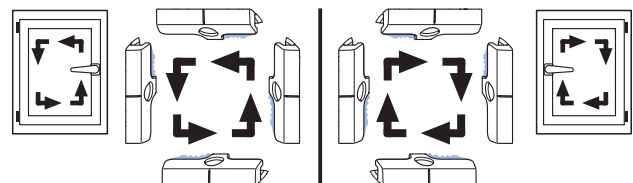


Lubrication points

Ascertaining the run-in sides

See figure: Run-in sides

- Left-handed window; handle right
- Right-handed window; handle left



Run-in sides

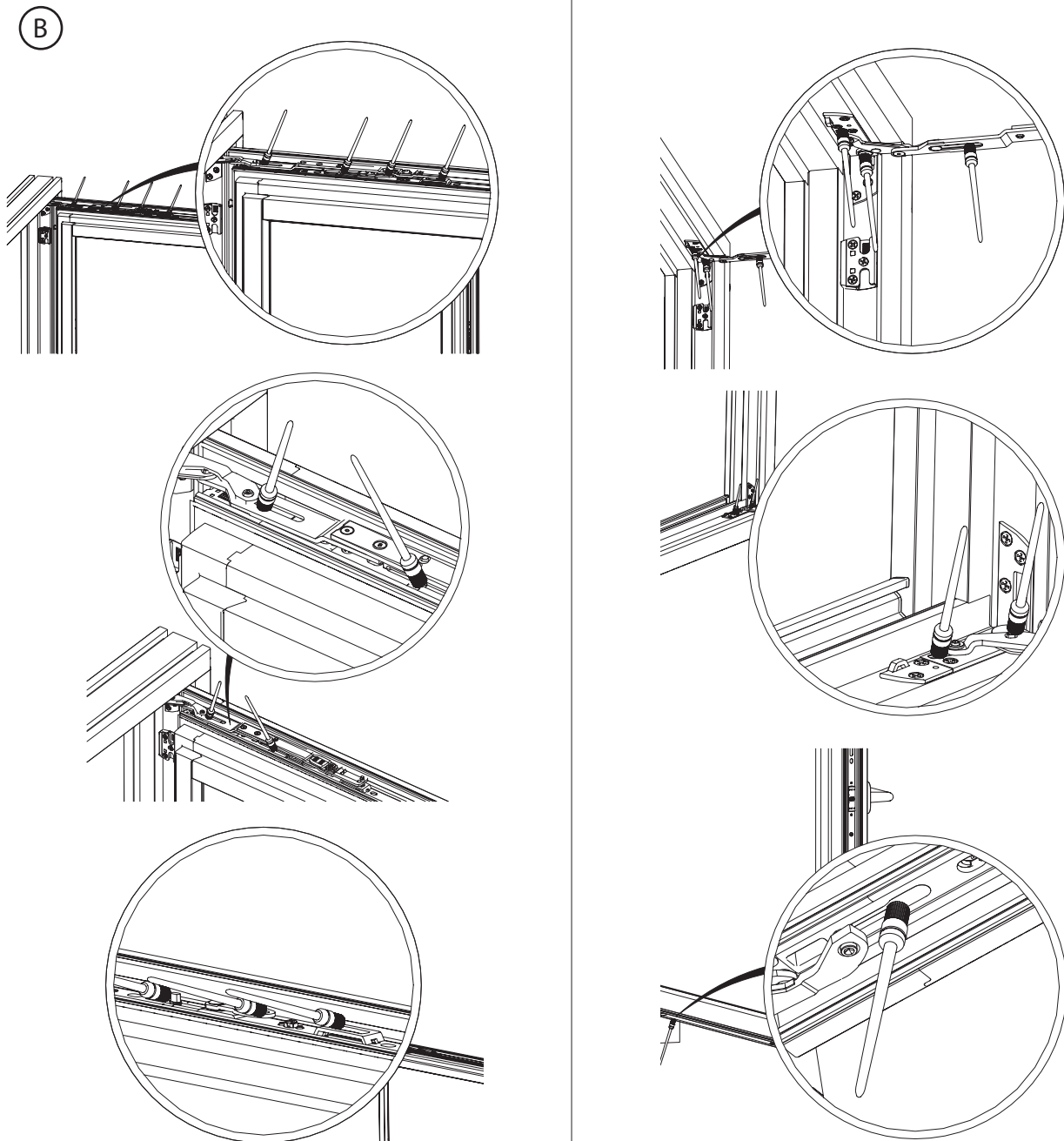
Maintenance

Lubrication points

Shear and corner hinge

See figure: Shear and corner hinge

Fitting parts are to be tested regularly (at least once annually or semi-annually in school and hotel buildings) to ensure they are seated firmly and checked for wear. Fastening screws are to be retightened and parts replaced as necessary. Their functionality is to be retested afterwards. All moving contact points on the shear and the corner hinge should be greased with a suitable lubricant at least once a year. Coat lubricating points with non-resinous, non-corroding grease.



Shear and corner hinge



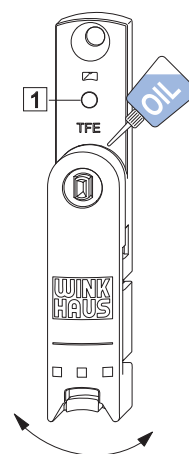
Attention! Risk of injury. The window could fall on removal and thus injure persons. Do not remove the window for maintenance.

Adjustment and maintenance

Dual/triple function element

DFE/TFE activation

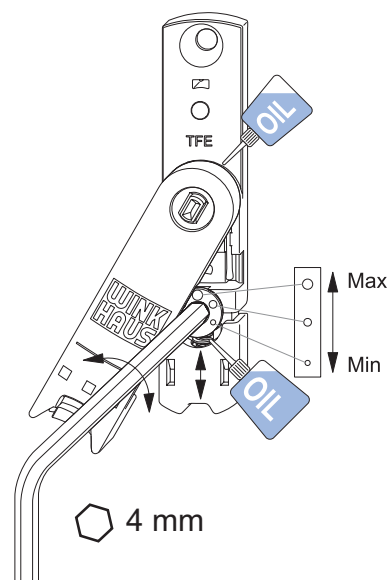
The DFE/TFE element is supplied in the neutral position. Please proceed as follows: Drive in the protruding pin to fix in place (1). Can be used left/right by swivelling out the lever once only. Dribble a few drops of oil (free of resin and acid) onto lubrication points.



DFE/TFE activation

TFE – Retaining force of balcony door catch

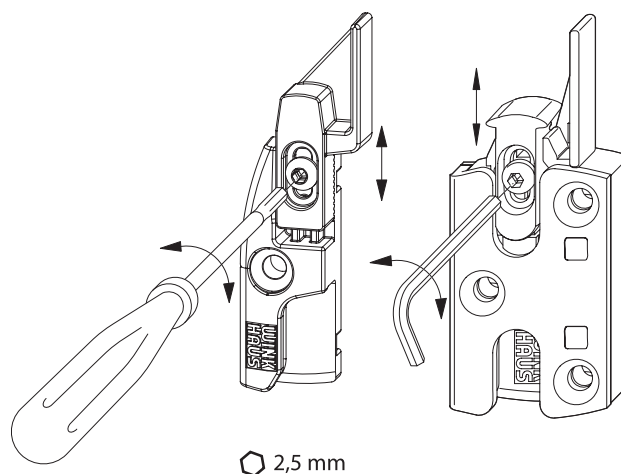
Adjusting the holding force by re-setting the eccentric cam with a 4 mm Allen key. Dribble a few drops of oil (free of resin and acid) onto lubrication points.



TFE – Retaining force of balcony door catch

Frame part DFE/TFE

Height adjustment (+/- 3 mm) for sash support plate. Each time fittings are adjusted, the DFE/TFE height setting should also be checked using a 2.5 mm Allen key.



Frame part DFE/TFE

Aug. Winkhaus GmbH & Co. KG

August-Winkhaus-Straße 31

D-48291 Telgte

T +49 2504 921-0

F +49 2504 921-340

winkhaus.de

fenstertechnik@winkhaus.de