

activPilot Concept activPilot Select

Operating and maintenance manual for the
window company

Operating and maintenance

Contents

Page 04

General and safety-relevant notices

Page 05 | 06 | 07

Sash installation and removal

activPilot Concept

activPilot Select

Page 08 | 09 | 10 | 11

Adjustment

activPilot Concept

activPilot Select

Page 12 | 13 | 14

Maintenance

Lubrication points

Page 15

Adjustment and maintenance

Dual/triple function element

General and safety-relevant notices

These instructions are intended for the window company. They describe essential adjustment and maintenance work for the activPilot Concept and activPilot Select turn-tilt 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 addresses:

<http://www.winkhaus.de>

(Produkte & Leistungen/Hinweise zum Produkt und zur Haftung)

or

<http://www.beschlagindustrie.de/ggsb/richtlinien.asp>

Operating the turn-tilt window

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

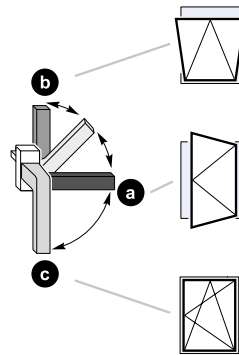


Fig. 1: Turn-tilt window

Operating the double-sash window

1. 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.
2. Close sash. Return lever to original position (a). The window is closed.

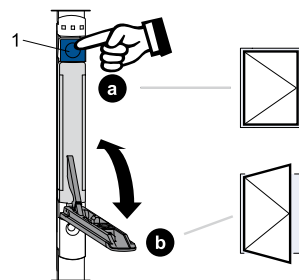


Fig. 2: Double-sash window

Sash installation and removal activPilot Concept

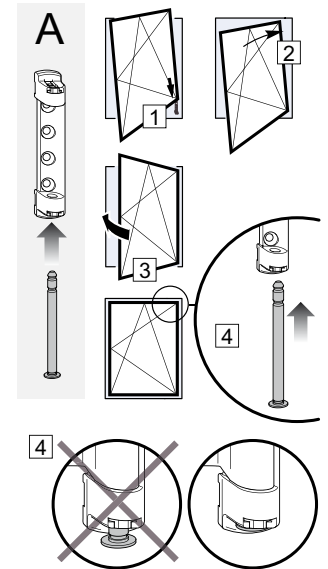
Fitting a sash (A):

1. Mount the sash, adjust for a good seal and fit the pin to secure against the shear hinge.



Please note: Insert the pin from the underside (see 4).

2. Push all end caps and sealing caps onto the shear and corner hinges.

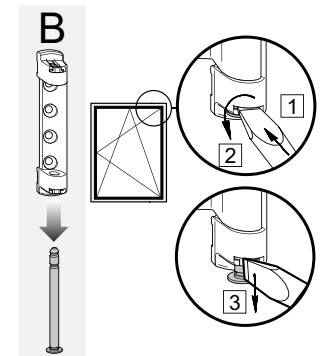


Dismount the sash (B):

1. Move the sash to the sealing plane.
2. Release the pin from the shear hinge.
3. Remove the sash.



Attention! Damage to shear hinge. In case of improper use and if you attempt to drive out the pin forcibly, the shear hinge will be damaged. Use only a screwdriver to release the pin as shown in Fig. B.



Sash installation and removal

activPilot Select



Please note: These mounting instructions do not include instructions on mounting the supporting sash hinges. Window builders must ensure that hinges and their anchorings are designed to support the expected loads and are professionally mounted.

Preparing sash:

1. If there is a fail-safe device, disconnect it.
2. Put fitting into the „tilt“ position. This releases the central anchorage point.
3. If Sash Hinge Rail FLS.SE is used, the height adjustment screw must be removed from the corner hinge before installing the sash.

Install sash at the bottom (Fig. 1):

1. Open the corner hinge brackets (4) 90°.
2. Lower sash onto the corner hinge brackets (4):
 - Insert bolt (2) in the sash hinge top hinge point while inserting the bolt (3) in the sash hinge groove at the same time.
3. If present, fit the sash hinge rod (1) into the slot on adapter plate.

Warning! Risk of damage to the corner hinge.

The corner hinge brackets must not bear the sash weight on their own.

If Sash Hinge Rail FLS.SE is used, it must bear the weight of the sash.

If necessary, readjust the sash hinge rail using the height adjustment.

4. If there is a Turn Limiter DB.SE:

Place the turn limiter arm (5) onto retainer pin (6), so that the stop spring clicks into place behind the retainer pin.

You will hear a click as the pin snaps into position.

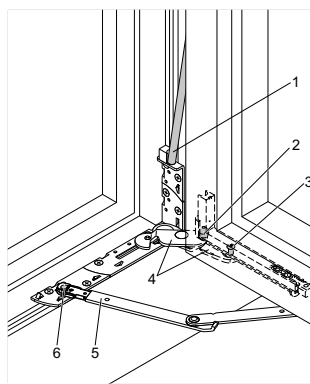


Fig. 1: Corner and Sash Hinges

Engaging sash at the top (Fig. 2):

1. Pivot mount securing device (1) out by 90°. Open shear 90° and place over the retaining bolt (4) on the top rod.
2. Press in the shear bolt (3) into the opening in the counter bracket.
3. Press the hammer head bolt into the elongated hole on the top rod. The shear arm should be flush with the top rod.
4. Swivel the mount securing device (1) into position by hand, so that the stop spring (2) clicks into place.
5. 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.
6. Close the window.

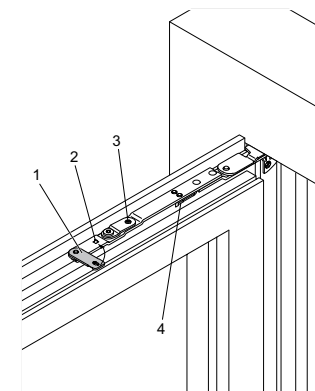


Fig. 2: Shear

Disengaging sash at the top (Fig. 2) [only if necessary]:

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



Warning! Risk of Injury.

The sash can fall out and cause injuries if the shear and top rail are not securely fastened. It is important to ensure the stop spring is firmly in position.



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.

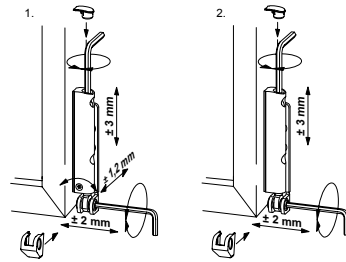
Adjustment

activPilot Concept

Corner hinge

Height adjustment (+/- 3 mm) and side adjustment (+/- 2 mm) of the corner hinge by using a 4 mm Allen key.

For sash hinge FL.KA additional adjustment of the contact pressure between sash and frame (+/- 1.2 mm) using a 2.5 mm Allen key.

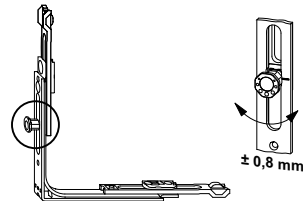


1. with contact pressure adjustment

2. without contact pressure adjustment

Octagonal bolt

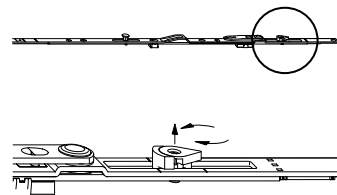
Regulate the contact pressure between the sash and the frame (+/- 0.8 mm) by turning the octagonal bolt. The adjustment can only be carried out if the fitting is in the turn position.



Shear retraction

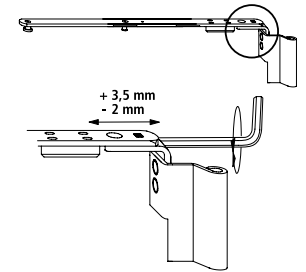
The progressive shear pull-in is adjustable from 18 to 28 mm. Release the catch by pulling up on the adjustment latch then pivot the adjustment latch away from the overlap.

A variable tilt device, MSLOS, can be used as an alternative to the progressive shear pull-in.



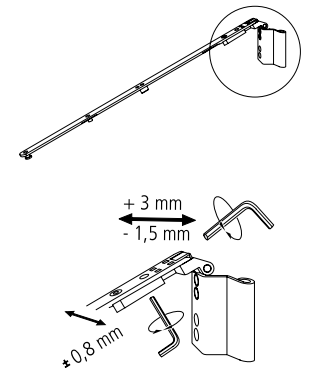
Shear - rectangular window

Lifting and lowering the sash (from -2 to +3.5 mm) by means of a 4 mm Allen key.



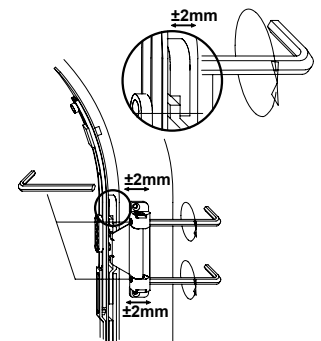
Shear - studio window

Lifting and lowering the sash and adjustment of contact pressure by means of a 4 mm Allen key.



Shear - semicircular arched window

Lift and lower the sash with a 4 mm Allen key. The adjusting screws in the shear hinge must be aligned in parallel.

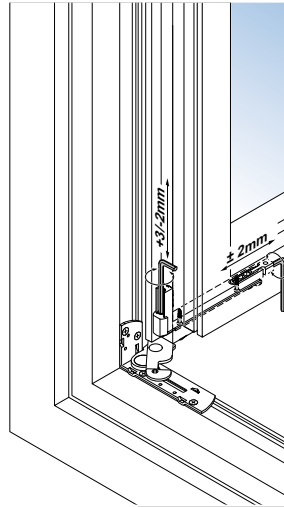


Adjustment

activPilot Select

Corner hinge up to a sash weight of 100 kg

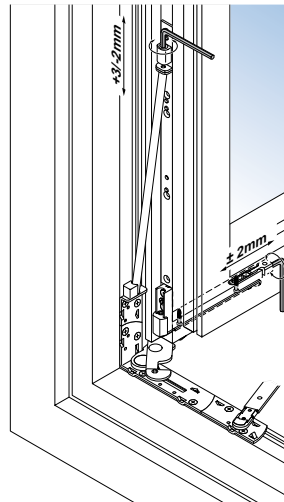
Height adjustment (+ 3 mm / -2 mm) and side adjustment (± 2 mm) for the sash hinge.



Corner hinge more than 100 kg sash weight.

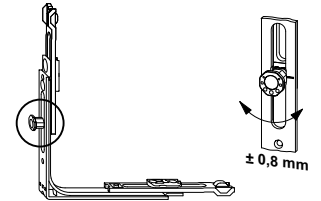
Height adjustment (+ 3 mm / -2 mm) and side adjustment (± 2 mm) for the sash hinge.

Note: The sash hinge adjusting screw must be removed.



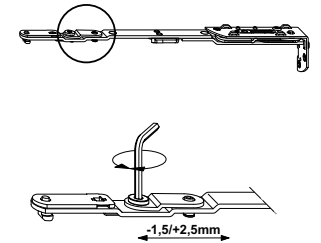
Octagonal bolt

Regulate the contact pressure between the sash and the frame (+/- 0.8 mm) by turning the octagonal bolt. The adjustment can only be carried out if the fitting is in the turn position.



Shear

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



Maintenance

Lubrication points

Fig. 1 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.



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.

Keeps (Fig. 2):

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

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

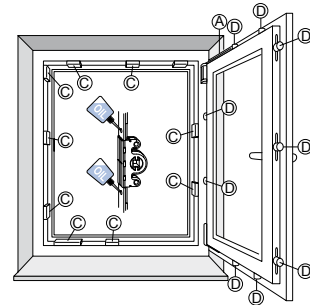


Fig. 1: Overview of lubrication points

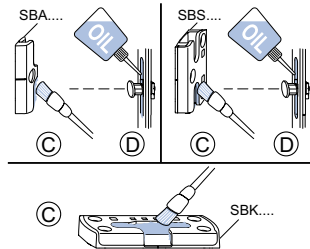


Fig. 2: Keeps

Ascertaining the run-in sides (Fig. 3):

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

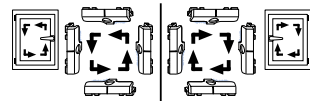


Fig. 3: Run-in sides

Maintenance

activPilot Concept lubrication points

Shear (Fig. 1):

All of the shear's contact points with the top rod should be oiled once annually.

1. Dribble a few drops of oil (free of resin and acid) onto lubrication points.



Note: The shear hinge must not be oiled or greased.

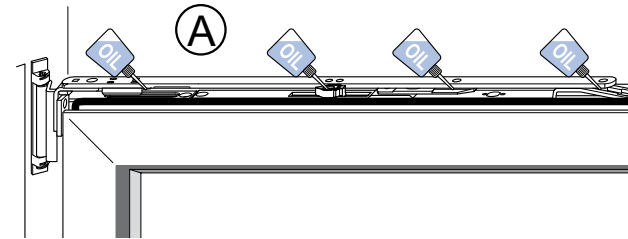


Fig. 1: Shear

Maintenance

activPilot Select lubrication points

Shear and corner hinge (Fig. 1, 2, 3):

All moving contact points on the shear and the corner hinge should be greased with a suitable lubricant on a yearly basis.

Coat lubricating points (A) with non-resinous, non-corroding grease.

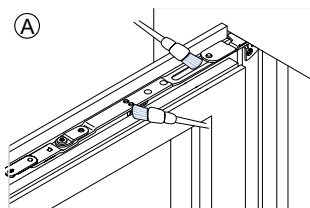


Fig. 1: Shear (sash)

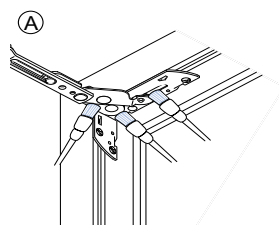


Fig. 2: Shear (frame)

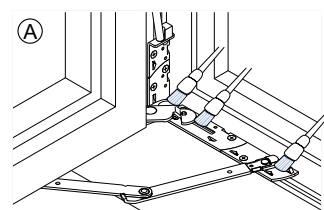


Fig. 3: Corner hinge

Adjustment and maintenance

Dual/triple function element

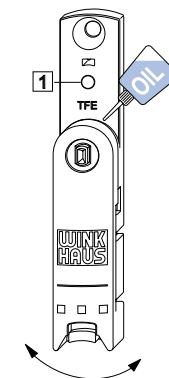
DFE/TFE activation

If the DFE/TFE is delivered in the neutral position, as illustrated, then please proceed as follows:

Drive in the protruding pin to fix in place.

Non-handed by swivelling out the lever once only.

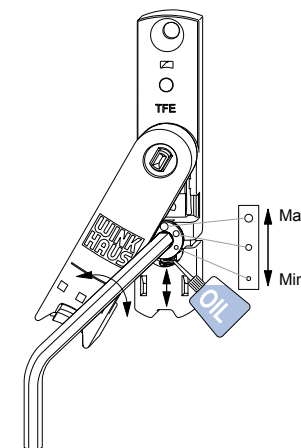
Dribble a few drops of oil (free of resin and acid) onto lubrication points.



TFE – Retaining force of balcony door catch

Adjusting the holding force by re-setting the eccentric cam using a 4 mm Allen key.

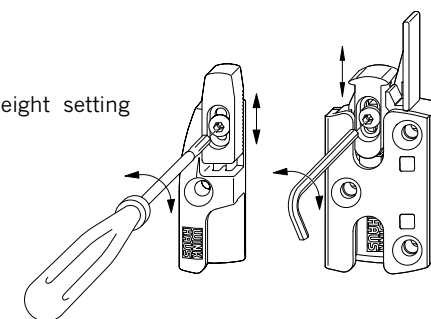
Dribble a few drops of oil (free of resin and acid) onto lubrication points.



Frame part DFE/TFE

Height adjustment (+/- 3 mm) for sash limiter.

Each time fittings are adjusted, the DFE/TFE height setting should also be checked using a 2.5 mm Allen key.



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