Frame Parts Overview





Sash Parts Overview





PVC Profile Dimensions

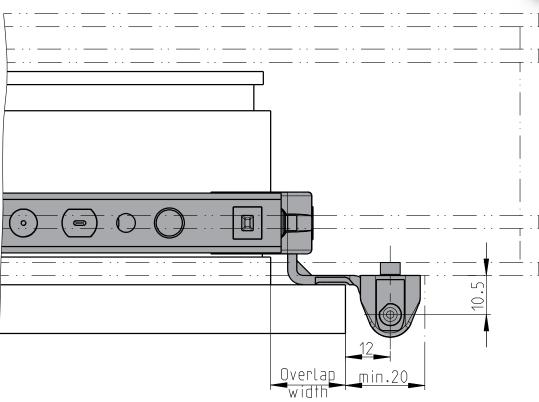


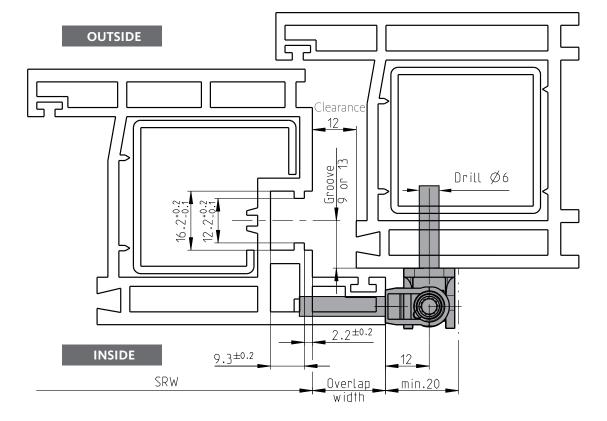












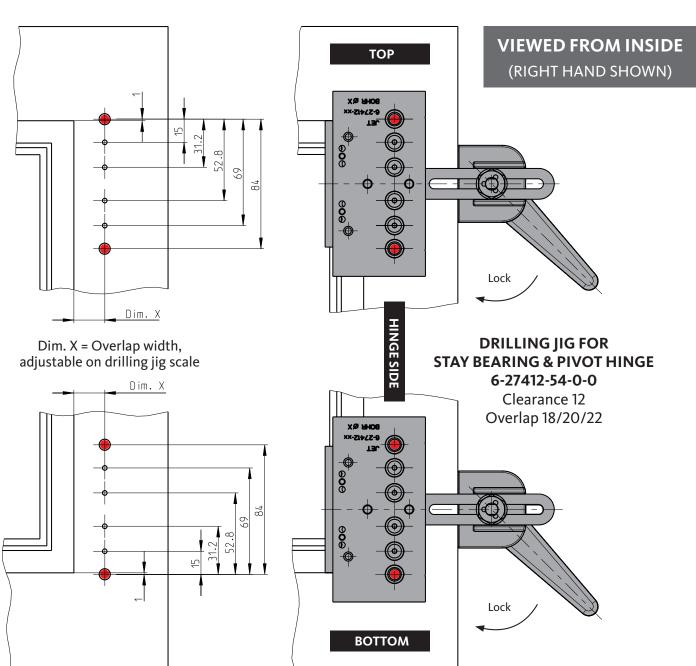
Frame Preparation

with Drilling Jig 6-27412









STEP 1

- Lay the frame on a clean table inside facing up and the hinge side toward you, left or right.
- Place the drilling jig at top, make sure the jig is tight into the corner and clamp the lever as shown, drill 2 holes with 6mm diameter drill bit for stay bearing legs.
- Place the drilling jig at bottom and drill 2 holes with 6mm diameter drill bit through the PVC walls and the steel reinforcement for pivot hinge legs.

Hardware Installation on Frame

Install the stay bearing and the pivot hinge

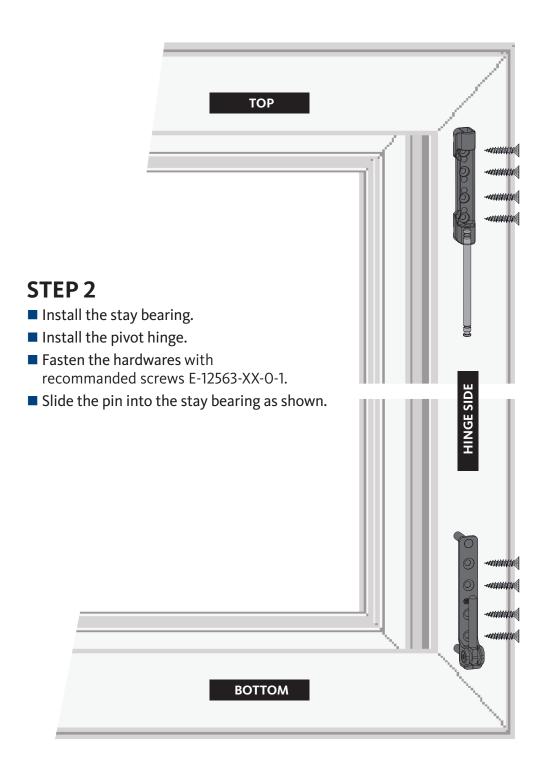












Sash Preparation

with Drilling Jig 6-38847





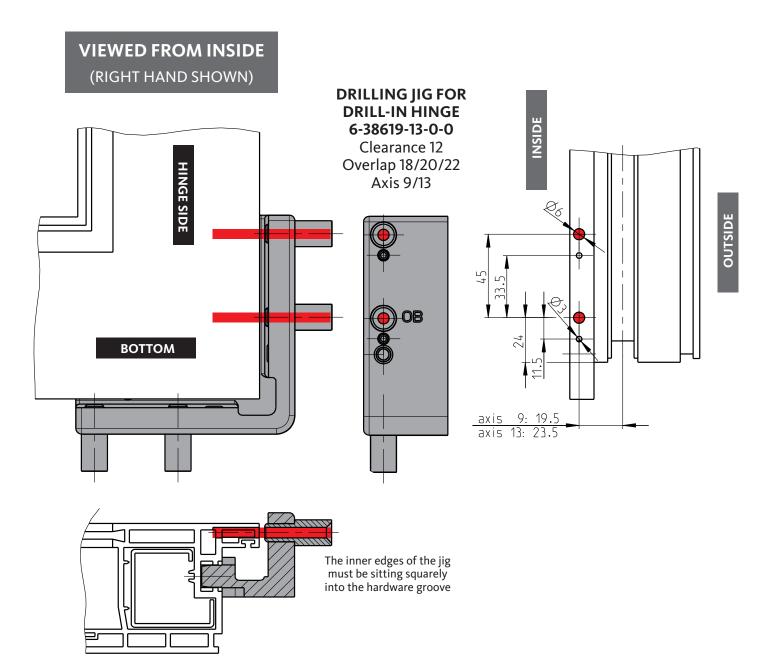






STEP 3

- Place and press firmly the drilling jig at bottom from hinge side of sash, left or right.
- Drill 2 holes (in red) with 6mm diameter drill bit for drill-in hinge legs.



Install the drill-in Hinge

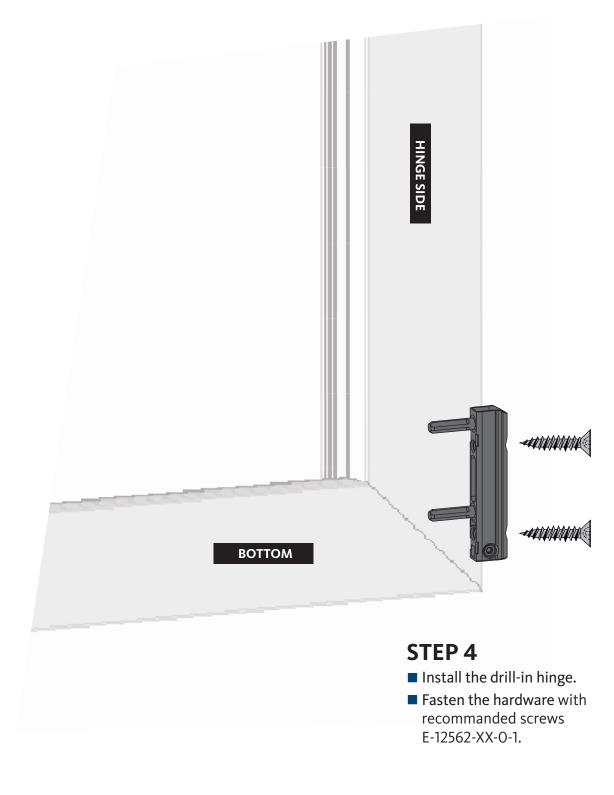












Sash Preparation

Gear Lockcase and Handle Cut-out

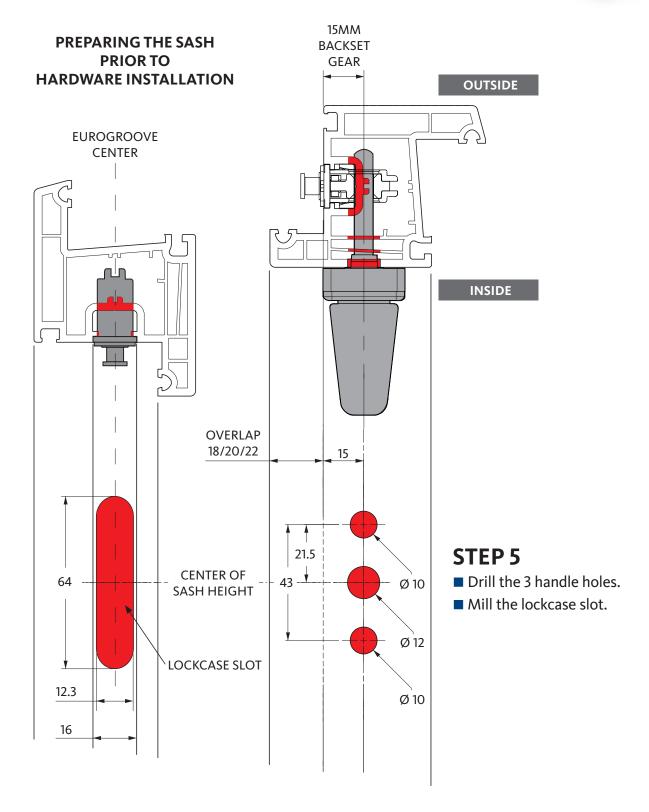












Layout the sash as shown



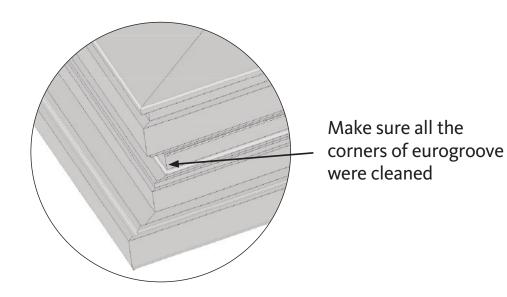












Hardware Installation

Sash Rebate Width (SRW) - Sash Rebate Height (SRH)



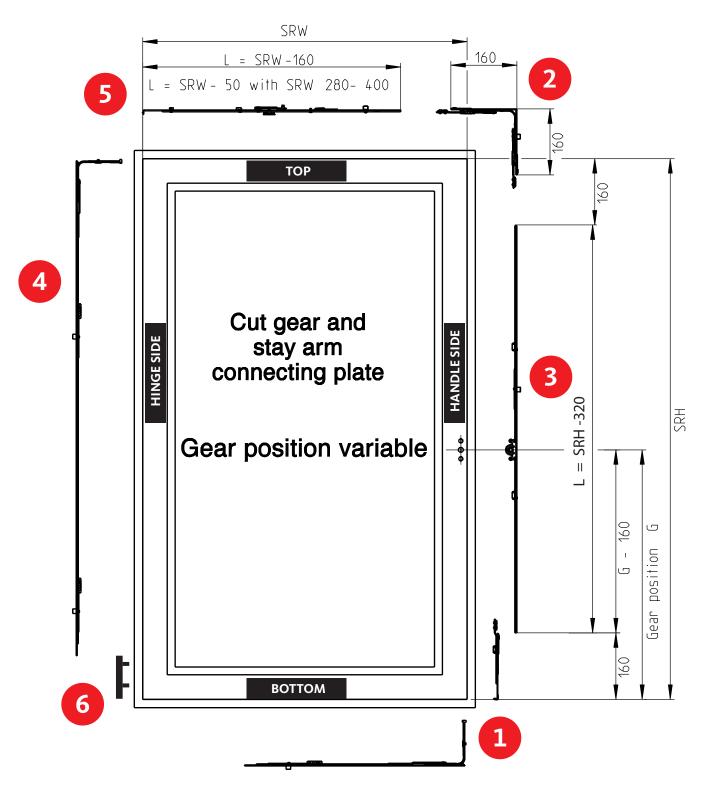








HARDWARE CUT SHEET



Install the gear connector with the bottom T&T middle lock

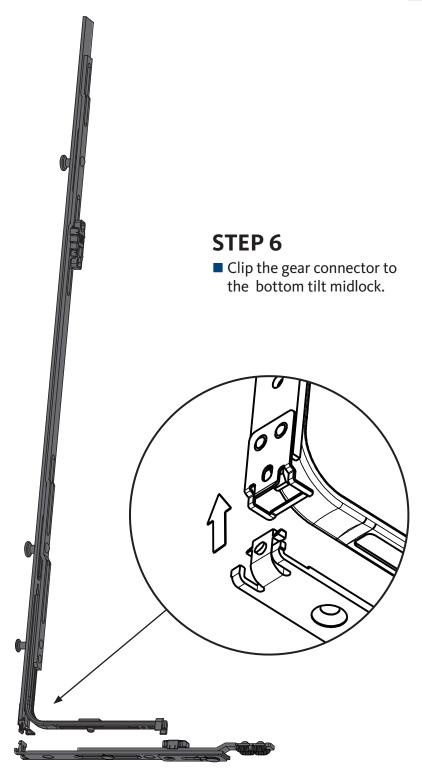












Install the corner tranmission













STEP 7

■ Snap the assembly into the eurogroove.

STEP 8

■ Snap the corner transmission into the eurogroove.

Install the gear

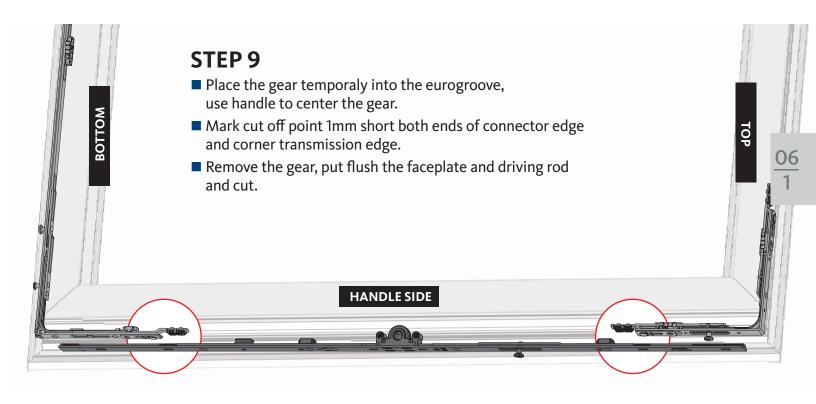


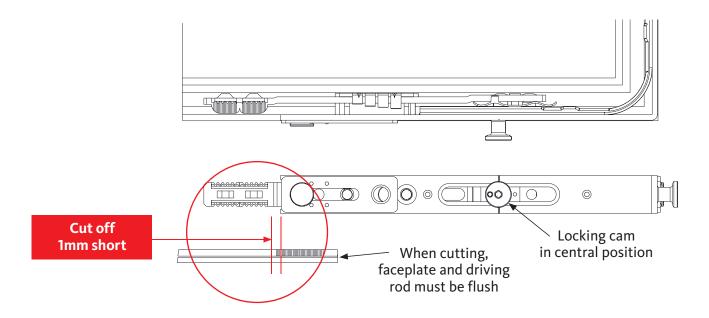












Install the gear

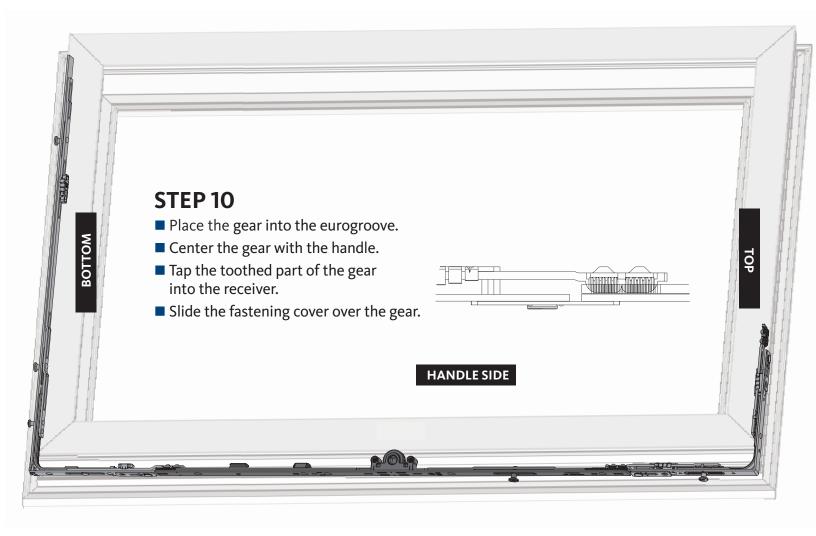












Install vertical midlock













STEP 11

■ Snap the vertical midlock into the eurogroove.

Install the stay arm faceplate

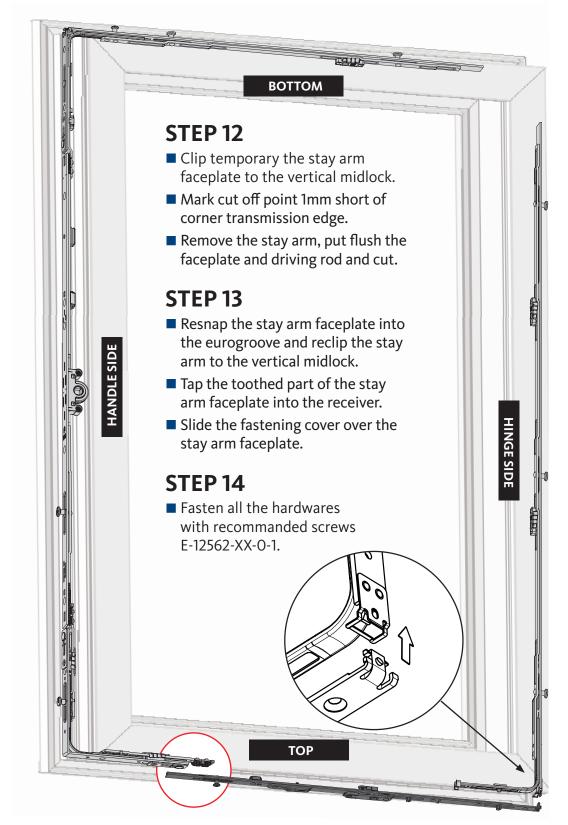












Stay arm hinge









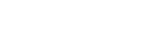




VIEWED FROM INSIDE



RIGHT HANDED



LEFT HANDED





Install the stay arm hinge

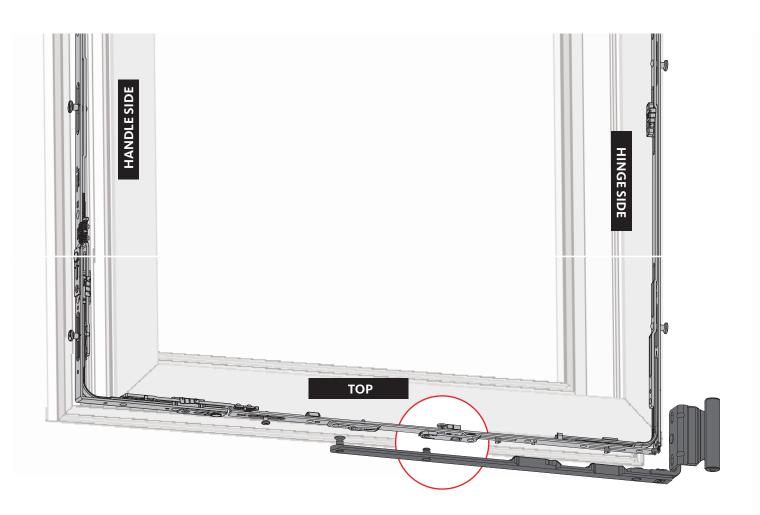












STEP 15

- Hook the stay arm into the stay arm faceplate.
- Press the pin down into the red connector.

Mounting the sash to the frame





Mounting the sash to the frame



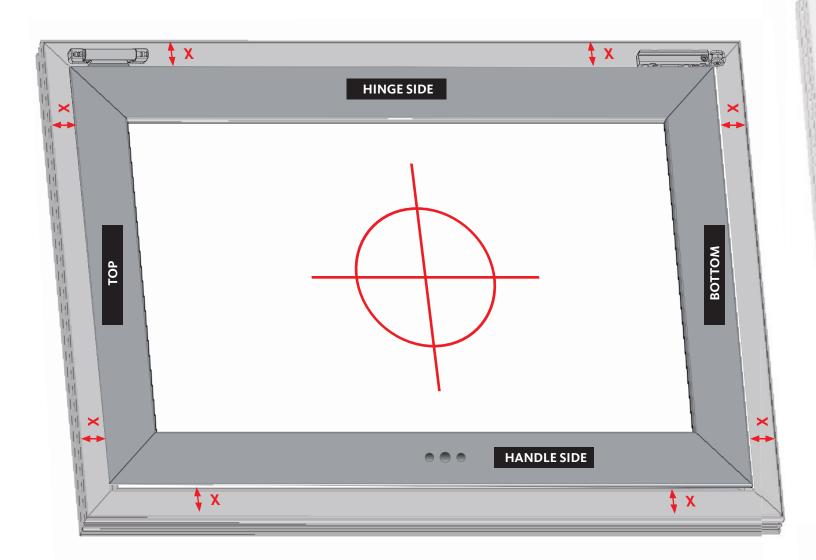








CENTER SASH IN FRAME



STEP 18

- Measure all around the window, make sure the dimensions X are the same.
- Make the adjustments if necessary.

Install the keepers

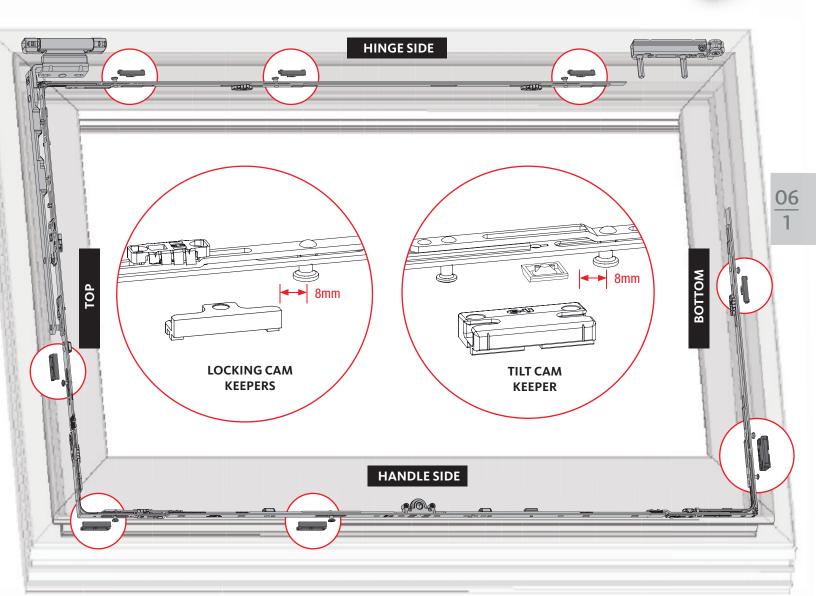












STEP 19

- Mark each cam center on the frame with a pencil.
- Add second mark at 8mm of center mark (clockwise around frame for right handle, counterclockwise around frame for left handle).

STEP 20

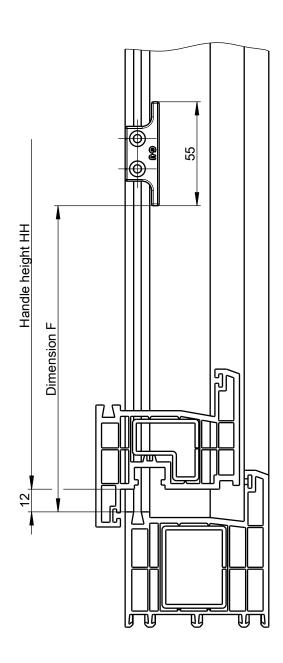
- Install locking keepers around the frame.
- Install tilt keeper at bottom of the frame.
- Install run-up block to the bottom tilt midlock as shown.

Install the wrong operation device





Position of run-up stop for sash lifter



Variable handle height			
SRH Dimension F			
751-1200	Dim. G - 158		
951-1450	Dim. G - 158		
1201-1700	Dim. G - 158		
1451-1950 Dim. G - 158			
1951-2800	Dim. G - 367		

Install the wrong operation device

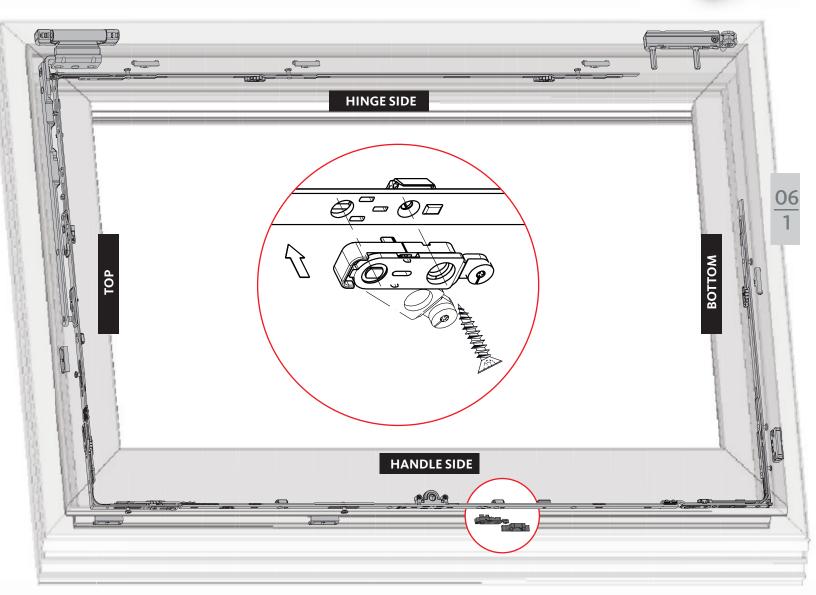








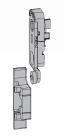




STEP 21

■ Install the wrong operation device to the gear.

(Only require for locking gears G-22082/3/4/5/6)



Wrong operation device with sash lifter



or

Left (L) Right (R)

Wrong operation device

Install the handle

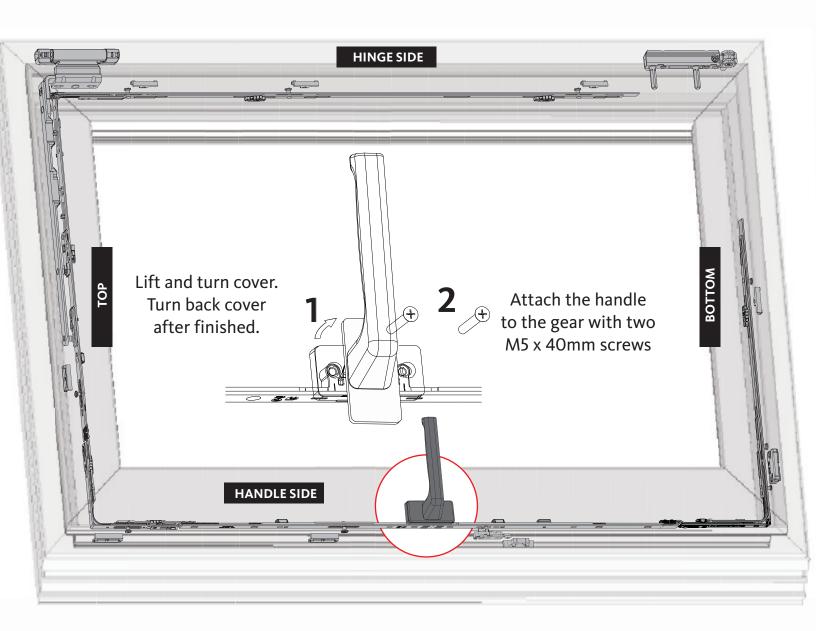










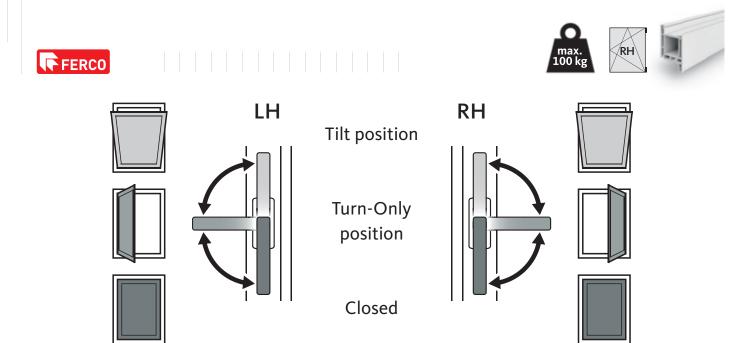


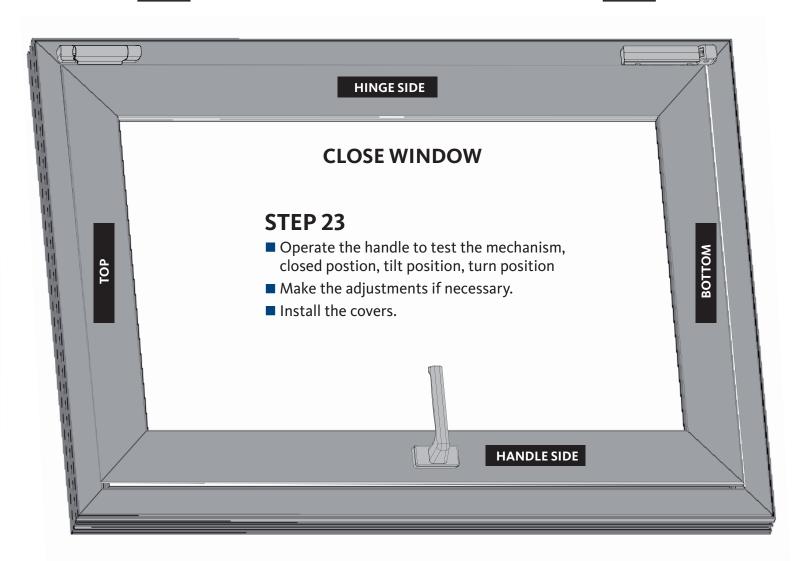
STEP 22

■ Install the handle in turn position.

Testing the window





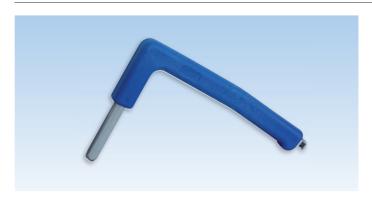








Multi Functional Adjusting Tool			
Description		PU	Part Number
Includes rachet and bits		1	6-37291-00-0-1
	* = Color	PU = Pa	ckaging Unit



Construction Pull Handle for Stay-Bearing Pin			
Description		PU	Part Number
Handle with 7mm square spindle and pull tap for stay-bearing pin		1	6-38513-02-0-9
	* = Color	PII = Pa	ckaging Unit







Torx 15 T-Key			
Description	Color	PU	Part Number
Torx key	Steel	1	H-00346-15-0-0
	* = Color	PU = Pa	ckaging Unit



Torx 15 Adjusting Key			
Description		PU	Part Number
U-shaped 110 x 100 x 25mm		1	9-43631-00-0-6
	* = Color	PU = Pa	ckaging Unit



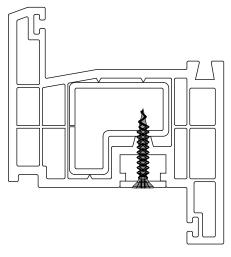
Torx Allen Key for Unijet Cam Adjustment			
Description PU Part Number			
L-shaped 100 x 24mm		1	H-00809-15-0-0
,	* = Color	PU = Pa	ckaging Unit







Installation diagram



D1 Screws for Hardware Installation				
Description	Dimension mm	Color	PU	Part Number
D1 screws	4.2 x 20	Zinc	1000	E-12562-20-0-1
D1 screws	4.2 x 22	Zinc	1000	E-12562-22-0-1
D1 screws	4.2 x 25	Zinc	1000	E-12562-25-0-1
D1 screws	4.2 x 30	Zinc	1000	E-12562-30-0-1
D1 screws	4.2 x 35	Zinc	1000	E-12562-35-0-1
D1 screws	4.2 x 40	Zinc	1000	E-12562-40-0-1
		* = Color	PU = Pa	ckaging Unit

Product characteristics

- Classic hardware screw, incorporating the latest technology, with double-pitch thread
- Also ideal for thin-walled profiles
- High overtorquing and extraction values in PVC
- Roller-sorted quality for automatic screwing
- Steel, case hardened

Applications

- Fastening of Tilt&Turn hardware in normal and thin-walled PVC profiles and also in steel or GFRP inserts
- Fastening of closing parts, hinges and bearings

Processing

- Screwing with speeds of approx. 1,500 to 2,000 rpm
- Can be screwed into steel; pre-drilling required (see technical data and requirements)
- Can be screwed into GFRP without pre-drilling

Technical data and requirements			
Head diameter	7.3 mm		
Drive	Philips PH 2		
Thread type	Double-pitch thread		
Sheet metal thickness	Pre-drill diameter		
1.5 mm	3.0 mm		
2.0 mm	3.2 mm		
2.5 mm	3.5 mm		







Description	Dimension mm	Color	PU	Part Number
B1 screws	3.9 x 13	Zinc	1000	E-12563-13-0-1
B1 screws	3.9 x 16	Zinc	1000	E-12563-16-0-1
B1 screws	3.9 x 19	Zinc	1000	E-12563-19-0-1
B1 screws	3.9 x 25	Zinc	1000	E-12563-25-0-1
B1 screws	3.9 x 32	Zinc	1000	E-12563-32-0-1
		* = Color	PU = Pa	ckaging Unit

Product characteristics

■ Roller-sorted quality for automatic screwing

B1 Screws for Hardware Installation

■ Steel, tempered

Applications

- Fastening of steel reinforcement up to 3.0 mm in PVC windows in which the reinforcement is close together
- Fastening of hardware components

Processing

■ Screwing with speeds of approx. 1,500 to 2,000 rpm

<u></u>	
5 25	

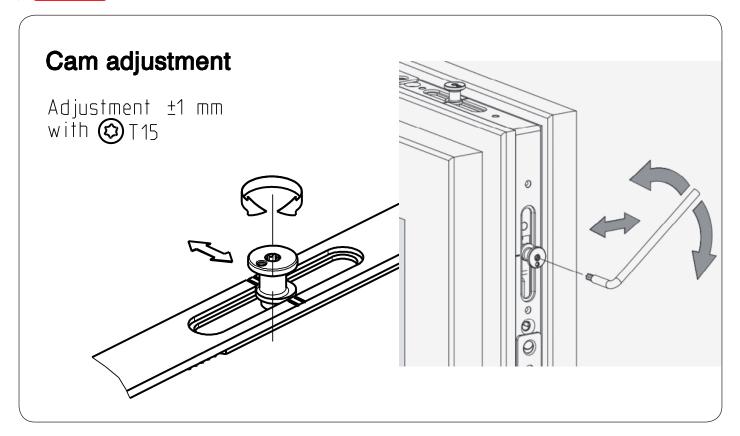
Installation diagram

Technical data and requirements		
Head diameter	7.5 mm	
Drive	Philips PH 2	
Thread type	ST thread	

Locking Cam Adjustments with Torx 15 Key







UNI-JET Cleverle - Locking Cam Adjustments

- ±1mm adjustment with Torx 15 key.
- Gasket pressure adjustment all around the sash via "Cleverle" locking cams.
- Clearance compensation with standard strikers: from 8.5 to 15.0mm.
- Clearance compensation with Se security strikers: from 8.5 to 14.0mm.
- Automatic vertical locking-cam movement: 1.2mm.
- Locking-cam diameter: 11mm.
- Due to the fact that the clearance between sash and the frame isn't always ideal, the locking points with the "Cleverle" automatic locking-cam adjust independently, automatically and "clever" to the existing clearance tolerances.

Thanks to the specially cranked connecting rods located at the locking points under the faceplate, the mushroomshaped locking cams locate themselves into the required position and return afterwards to the neutral position.

Wrong Operation Device & Sash Lifter Adjustment with Torx 15 Key

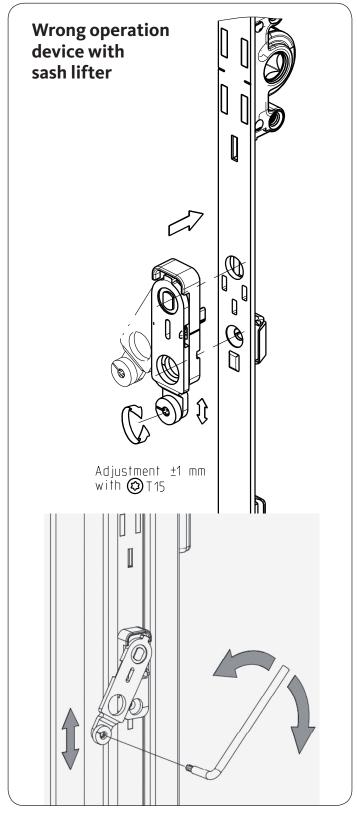






Wrong Operation Device with Sash Lifter

- Vertical adjustment: ±1mm with Torx 15 key.
- Non-handed version helping to maintain low stockkeeping levels.
- Prevents mishandling the window reliably (incorrect handle operation), e.g. when the window is in the Turn-Mode, it's not possible to turn the handle into the Tilt-Mode if the sash isn't lying up against the frame).
- Lifts the sash gently into the frame and with it the closed position, providing for easy and convenient window operation (same function as a sash run-up).
- Also available as a mere mishandling device (without sash-lifter, triggered directly on the frame and for this reason no lifting mishandling device striker is required on the frame).
- The "Flügelfix" lifting mishandling device with integrated sash-lifter is clipped on to the pre-punched gear-drive and screw-fixed. Subsequently the required direction is activated by pulling (component is non-handed).

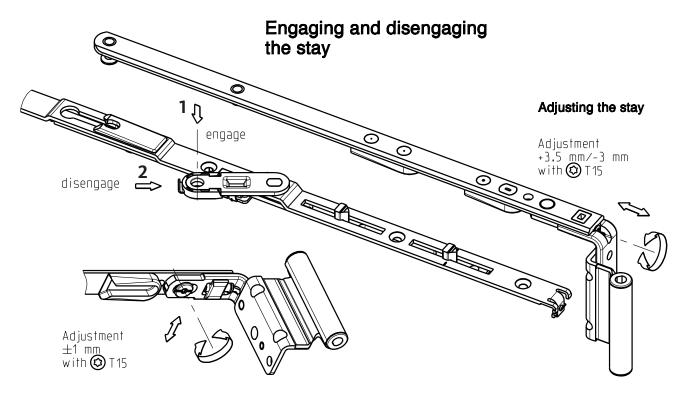


Stay Arm Adjustments









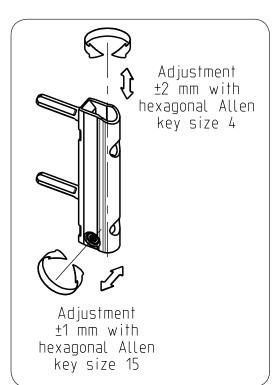
UNI-JET Stay-arm and Stay-guide

- Lateral adjustment: +3.5mm / -3mm with Torx 15 key
- Gasket pressure adjustment: ±1mm with Torx 15 key.
- (2) Quick hinging and unhinging: to release the stay-arm from the stay-guide, simply push in the safety spring on the stay-guide (alternatively pull out the stay-bearing pin: refer to the stay-bearing chapter).
- Stay-arms are non-handed (for 13mm axis), helping to maintain low stockkeeping levels (Left and right-handed T&T stay-arms for 9mm axis).
- An integrated anti-slam device holds the sash securely in the tilted position even in draughty conditions.
- The bevelled edge on the stay-arms enables free movement when tilting small sashes (e.g. from SRH 280mm) and with this, prevents damaging the profile surface.
- Note: the stay-hinge may not be removed after it has been attached ("click").
- The illustration shows a (non-handed) component that shall be installed in a right-handed window (Always viewed from the inside).

Drill-in Hinge & Pivot Hinge Adjustments

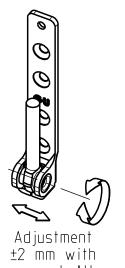






UNI-JET Drill-in Hinge D

- Vertical adjustment: ±2mm with long 4mm Allen key.
- Gasket pressure adjustment: ±1mm with Torx 15 key.
- Tested hardware-components load-bearing capacity within the framework of a total hardware set: 100kg.
- Non-handed version helping to maintain low stockkeeping levels.
- The gasket level is not interrupted by the drill-in hinge.
- Removing the cap before adjusting the corner-hinge no longer required.



hexagonal Allen key size 15

UNI-JET Pivot-rest D

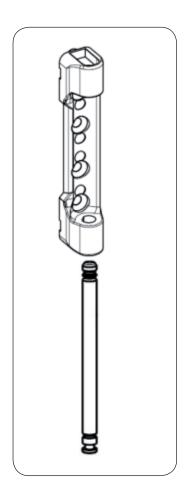
- Lateral adjustment: ±2mm with Torx 15 key.
- Tested hardware-components load-bearing capacity within the framework of a total hardware set: 100kg.
- efficient drilling pattern: drilling and screw-fixing pattern the same (symmetrical, supporting-pin distance 84 mm). The symmetrical drilling and screw-fixing pattern for stay-bearing and pivot-rest is specially designed to ensure optimal screw-fixing in the steel-reinforcement.
- Non-handed version helping to maintain low stockkeeping levels.

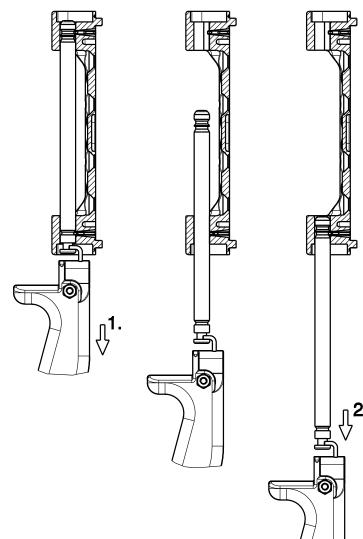
Instructions

Removing the Stay Bearing Pin with Pull Handle Tool









UNI-JET Stay-bearing D

- Cohesive elegant design of the hinge components (no visible screws).
- Aesthetical, concealed stay bearing pin.
- Tested hardware-components load-bearing capacity within the framework of a total hardware set: 150kg.
- Stay-bearing pin remains in the stay bearing upon unhinging und with it, can't get lost.
- Non-handed version helping to maintain low stockkeeping levels.

Instructions

Removing the Stay Bearing Pin with Standard Tools





