

Dimensions S4 / S4.6 *Window * = for manufacturers only E = no more serial production, only spare parts available
(4.6*) = maximum sizes for S4.6 width +4 mm / height +9 mm

ordering size	top hung window w	top hung window	sliding window	sliding window	fixed window	fixed window w	total dimension	aperture size	corner radius	top hung window clearance (4.6*)	dim. pane top hung/fix. wind.	dimension pane sliding wind. fixed	dimension pane sliding window move.	dim. pane acrylic sliding window
width x height	acrylic	tough	acrylic	tough	acrylic	tough	width x height	width x height		width x height	width x height	width x height	width x height	width x height
350 x 500	X	X**		X**	X**	E	393 x 531	343 x 498	R 12	254 x 354	318 x 434	135 x 426	207 x 426	
500 x 300	X			X**	X**		544 x 330	499 x 298	R 12	404 x 154	468 x 232			
500 x 350	X			X**	X**		544 x 380	500 x 348	R 12	404 x 204	468 x 282	210 x 276	282 x 276	
500 x 450	X		X	X**	X**		544 x 480	500 x 448	R 12	404 x 304	468 x 382	210 x 376	282 x 376	246 x 376
500 x 600	X	X**		X**	X**		544 x 631	499 x 599	R 12	404 x 454	468 x 534	210 x 526	282 x 526	
550 x 550	X	X**		X**	X**		594 x 581	549 x 549	R 12	454 x 404	518 x 484	235 x 476	307 x 476	
550 x 580	X	X**	X	X**	X**		594 x 611	548 x 578	R 12	454 x 434	518 x 512	235 x 506	307 x 506	271 x 506
550 x 600	X	X		X**	X**	E	594 x 631	549 x 599	R 12	454 x 454	518 x 534	235 x 526	307 x 526	
600 x 350			X	X**		E	644 x 380	599 x 348	R 12	504 x 204		260x 276	332 x 276	296 x 276
600 x 500	X	X**	X	X**	X**		644 x 531	599 x 498	R 12	504 x 354	568 x 434	260 x 426	332 x 426	296 x 426
600 x 600	X	X**	X	X**	X**		644 x 631	599 x 599	R 12	504 x 454	568 x 534	260 x 526	332 x 526	296 x 526
650 x 300	X			X**	X**		695 x 330	650 x 298	R 12	554 x 154	618 x 232	285 x 226	357 x 226	
700 x 300	X	X**	X	X**	X**		745 x 330	700 x 298	R 12	604 x 154	668 x 232	310 x 226	382 x 226	346 x 226
700 x 350	X			X**	X**		745 x 380	699 x 347	R 12	604 x 204	668 x 282			
700 x 400	X	X**	X	X**	X**		745 x 430	702 x 398	R 12	604 x 254	668 x 332	310 x 326	382 x 326	346 x 326
700 x 450	X		X	X**	X**		745 x 481	702 x 448	R 12	604 x 304	668 x 382	310 x 376	382 x 376	346 x 376
700 x 500	X						745 x 531	700 x 498	R 12	604 x 354	668 x 434			
700 x 550	X		X	X**	X**		745 x 581	700 x 549	R 12	604 x 404	668 x 484	310 x 476	382 x 476	346 x 476
700 x 600	X	X**	X	X**	X**		745 x 631	702 x 599	R 12	604 x 454	668 x 534	310 x 526	382 x 526	346 x 526
750 x 400	X		X	X**	X**		797 x 430	750 x 398	R 12	654 x 254	718 x 332	335 x 326	407 x 326	371 x 326
750 x 450	X				X**		797 x 481	749 x 447	R 12	654 x 304	718 x 382			
750 x 600	X	X**	X	X**	X**		797 x 631	750 x 599	R 12	654 x 454	718 x 534	335 x 526	407 x 526	371 x 526
800 x 350	X		X	X**	X**		846 x 380	800 x 347	R 12	704 x 204	768 x 282	360 x 276	432 x 276	396 x 276
800 x 450	X		X	X**	X**		846 x 481	801 x 450	R 12	704 x 304	768 x 382	360 x 376	432 x 376	396 x 376
800 x 480	E		E				846 x 511	800 x 477	R 12	704 x 334	768 x 412			396 x 406
900 x 400	X		X	X**	X**		948 x 430	902 x 398	R 12	804 x 254	868 x 334	446 x 326	acc. to slid. wind. fix	446 x 326
900 x 450	X		X	X**	X**		948 x 481	902 x 448	R 12	804 x 304	868 x 382	446 x 376	acc. to slid. wind. fix	446 x 376
900 x 500	X	X**	X	X**	X**		948 x 531	902 x 499	R 12	804 x 354	868 x 434	446 x 426	acc. to slid. wind. fix	446 x 426
900 x 550	X		X	X**	X**		948 x 581	902 x 549	R 12	804 x 404	868 x 484	446 x 476	acc. to slid. wind. fix	446 x 476
900 x 600	X		X	X**	X**		948 x 631	902 x 599	R 12	804 x 454	868 x 534	446 x 526	acc. to slid. wind. fix	446 x 526
1000 x 450	X			X**	X**		1048 x 481	1002 x 448	R 12	904 x 304	968 x 382	496 x 376	acc. to slid. wind. fix	
1000 x 500	X		X	X**	X**	E	1048 x 531	1002 x 499	R 12	904 x 354	968 x 434	496 x 426	acc. to slid. wind. fix	496 x 426
1000 x 550	X		X	X**	X**		1048 x 581	1002 x 549	R 12	904 x 404	968 x 484	496 x 476	acc. to slid. wind. fix	496 x 476
1000 x 600	X		X	X**	X**		1048 x 631	1002 x 599	R 12	904 x 454	968 x 534	496 x 526	acc. to slid. wind. fix	496 x 526
1000 x 800	X			X**	X**		1048 x 832	1002 x 800	R 12	904 x 654	968 x 734	496 x 726	acc. to slid. wind. fix	
1050 x 480	E		E		E		1098 x 511	1052 x 479	R 12	954 x 334	1018 x 414			521 x 406
1100 x 450	X		X	X**	X**		1148 x 481	1103 x 448	R 12	1004 x 304	1068 x 382	546 x 376	acc. to slid. wind. fix	546 x 376
1100 x 550	X				X**		1148 x 581	1102 x 549	R 12	1004 x 404	1068 x 484			
1100 x 700	X			X**	X**		1148 x 733	1103 x 699	R 12	1004 x 554	1068 x 634	546 x 626	acc. to slid. wind. fix	
1100 x 900			E				1148 x 933	1102 x 900	R 12	1004 x 754				
1200 x 300	X			X**	X**	E	1248 x 330	1201 x 297	R 12	1104 x 154	1168 x 232	596 x 226	acc. to slid. wind. fix	596 x 226
1200 x 350	X			X**	X**	E	1249 x 380	1202 x 347	R 12	1104 x 204	1168 x 282	596 x 276	acc. to slid. wind. fix	596 x 276
1200 x 500	X			X**	X**		1249 x 531	1203 x 500	R 12	1104 x 354	1168 x 434	596 x 426	acc. to slid. wind. fix	596 x 426
1200 x 600	X	X**	X	X**	X**		1249 x 631	1201 x 599	R 12	1104 x 454	1168 x 534	596 x 526	acc. to slid. wind. fix	596 x 526
1200 x 700	X			X**	X**		1249 x 733	1201 x 699	R 12	1104 x 554	1168 x 634	596 x 626	acc. to slid. wind. fix	596 x 626
1200 x 800	X			X**	X**		1249 x 832	1203 x 800	R 12	1104 x 654	1168 x 734	596 x 726	acc. to slid. wind. fix	
1300 x 550	X	X**	X	X**	X**		1343 x 581	1298 x 549	R 12	1204 x 404	1268 x 484	646 x 476	acc. to slid. wind. fix	646 x 476
1300 x 600	X	X**	X	X**	X**		1343 x 631	1297 x 599	R 12	1204 x 454	1268 x 534	646 x 526	acc. to slid. wind. fix	646 x 526
1450 x 550	X				X**		1500 x 581	1453 x 549	R 12	1354 x 404	1418 x 484			
1450 x 600	X	X**	X	X**	X**		1500 x 631	1454 x 599	R 12	1354 x 454	1418 x 534	757 x 526	685 x 526	721 x 526
1450 x 700	X			X**	X**		1500 x 733	1452 x 699	R 12	1354 x 554	1418 x 634	721 x 626	acc. to slid. wind. fix	
1600 x 550	X				X**		1650 x 581	1602 x 549	R 12	1504 x 404	1568 x 484	796 x 476	acc. to slid. wind. fix	
1600 x 600	X				X**		1650 x 631	1602 x 599	R 12	1504 x 454	1568 x 534			
1750 x 700	X				X**		1801 x 733	1755 x 700	R 12	1654 x 554	1718 x 634			

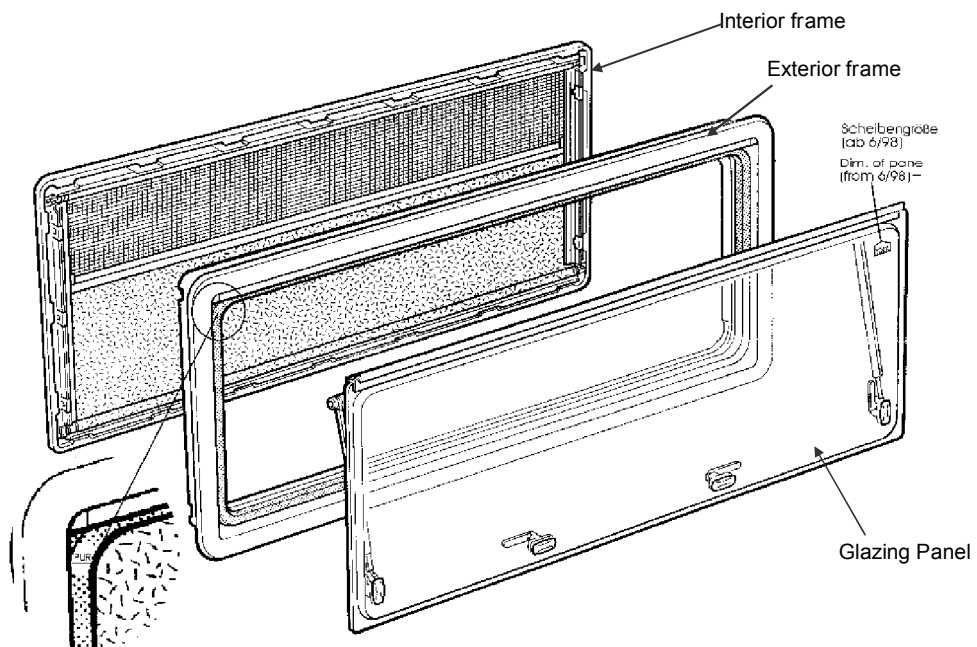
S4 - Top Hung Window



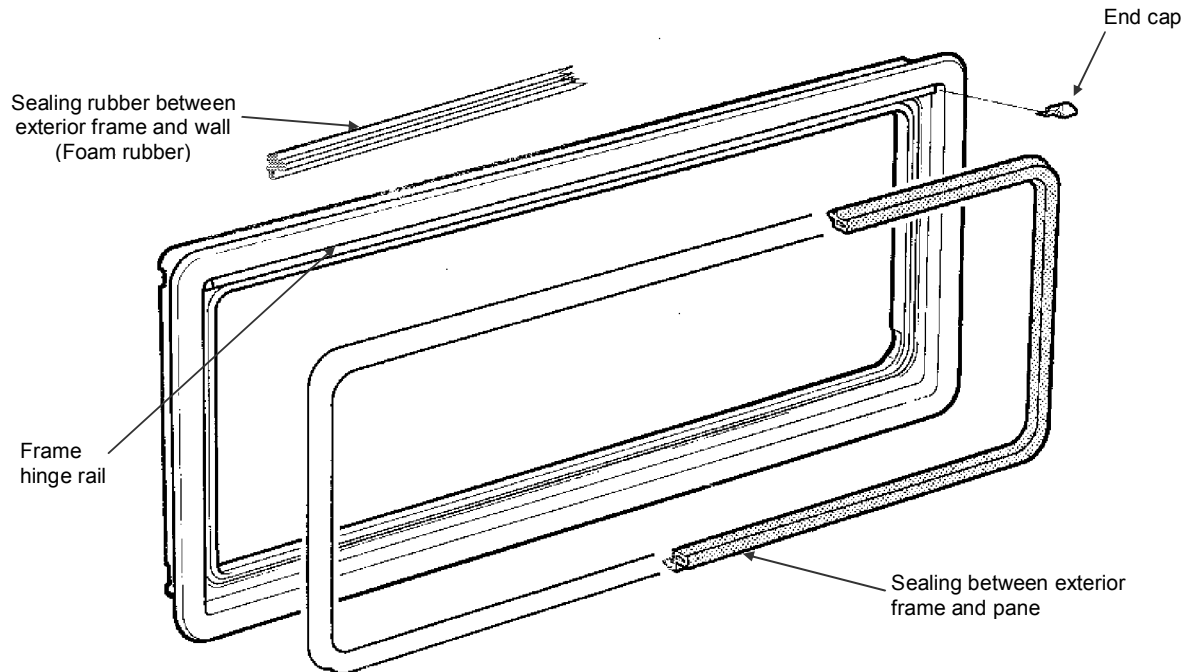
Outside view



Inside view



Exterior frame



PROBLEM :

Replacement of the exterior frame
Replacement of the sealing rubber
Replacement of the end cap

Replacement of the exterior frame

For the dismantling of the exterior frame, first remove the caps of the interior frame and then loosen all screws of the interior frame.

Caution! Before the screwed connections of the exterior frame are loosened, it must be ensured that the window is secured from outside against falling out.

Carefully remove the interior frame and exterior frame completely, beginning at a corner of the partition wall of vehicle. Before the insertion of the new exterior frame, the sealing surface of the wall section is to be cleaned. With the installation, a suitable caulking material must be employed. Permanently-plastic sealant mass (bead \varnothing 6-8mm) is applied all round in the corner of the frame to seal the exterior frame. From inside, the exterior and interior frames are screwed together with each other, where it is to be ensured that the screws are not tightened too much (max. tightening torque 3 Nm).

Replacement of the sealing rubber

Remove sealing rubber from the slot

Caution! Bond at the corners and at the joint with superglue



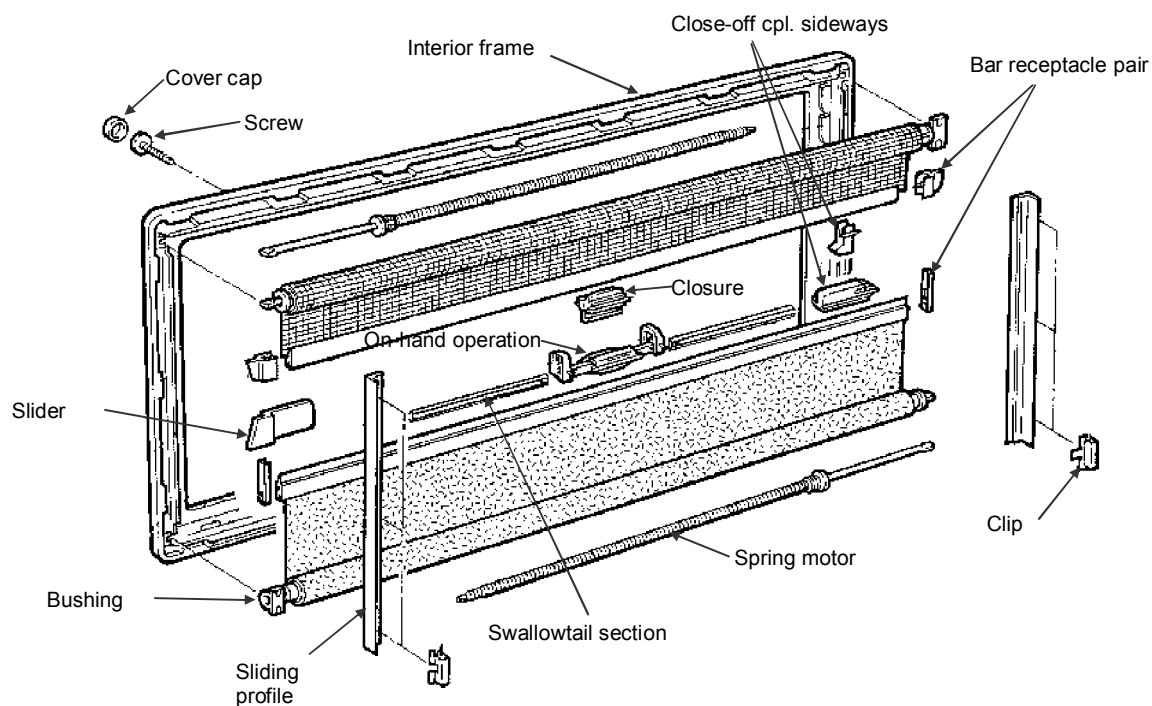
Remove adhesive residue with the aid of a small screwdriver. While inserting the new sealing rubber, it is to be ensured that the joint of the rubber seats centrally below. In order to stabilize the rubber, it is required to fix the corners and the joint with superglue.

Replacement of the end cap



If the end cap has broken-off, there is a possibility of replacing it. For this, it is necessary to disconnect the rear leg of the flush end cap. Bond front side and leg to the frame hinge with the aid of superglue.

Interior frame



PROBLEM :

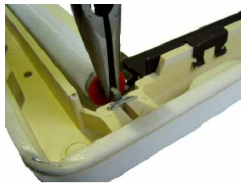
- Replacement of the complete interior frame
- Replacement of the fly protection window blind
- Replacement of the shade blind
- Replacement of the spring drive motor
- Replacement of the close-off
- Replacement of the side close-offs
- Replacement of the one-hand operation
- Replacement of the slider and swallowtail section

Replacement of the complete interior frame



Remove caps with the aid of an awl. Loosen recessed head screw and remove interior frame. Before the loosening the last screw, it is to be ensured that the exterior frames with windowpane cannot fall out.

Replacement of the fly protection window blind



Loosen spring drive motor from receptacle frame with the aid of pointed pliers.

Caution!: Spring is under stress. Danger of injury!



The window blind can then be removed by tilting the closure rod from the interior frame. The installation is implemented in reverse order, considering the clamping bar.

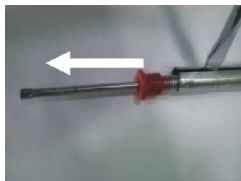
Clamping bar: Tube length in mm/ 100 +3= rotation of the spring drive motor shaft

Example: Tube length =1000mm 1000mm/ 100+3= 13 that is: 13 rotations clockwise

Replacement of the shade blind

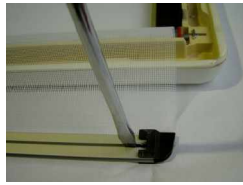
Replacement is on principle similar to replacement of the fly protection window blind

Replacement of the spring drive motor



In order to replace the spring drive motor, the dismantling of the respective window blind is required (see replacement of the fly protection window blind). Widen the slotted tube with the aid of a screwdriver and remove the spring drive motor sideways. Installation is implemented in reverse order.

Replacement of the close-off



Dismantle interior frame as described under replacement of the complete interior frame. Take out the corresponding window blind from the guide by tilting the closure rod and, with the aid of a screwdriver, knock bar receptacle and close-off sideways from the closure rod. Mount new part in reverse order.

Replacement of the side close-offs

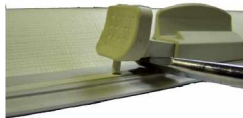


Above a window width of 1300 mm, side close-offs are installed that can be exchanged with replacement of the close-off.

Replacement of the one-hand operation



Dismantle interior frame as described under replacement of the complete interior frame. Remove the corresponding window blind by tilting the closure rod (see under replacement of the fly protection window blind). Knock out bar receptacles carefully sideways with the aid of a screwdriver and plastic hammer.



Through lifting the slider at the onehand operation the swallowtail section....



... can be lifted out sideways together with the slider.

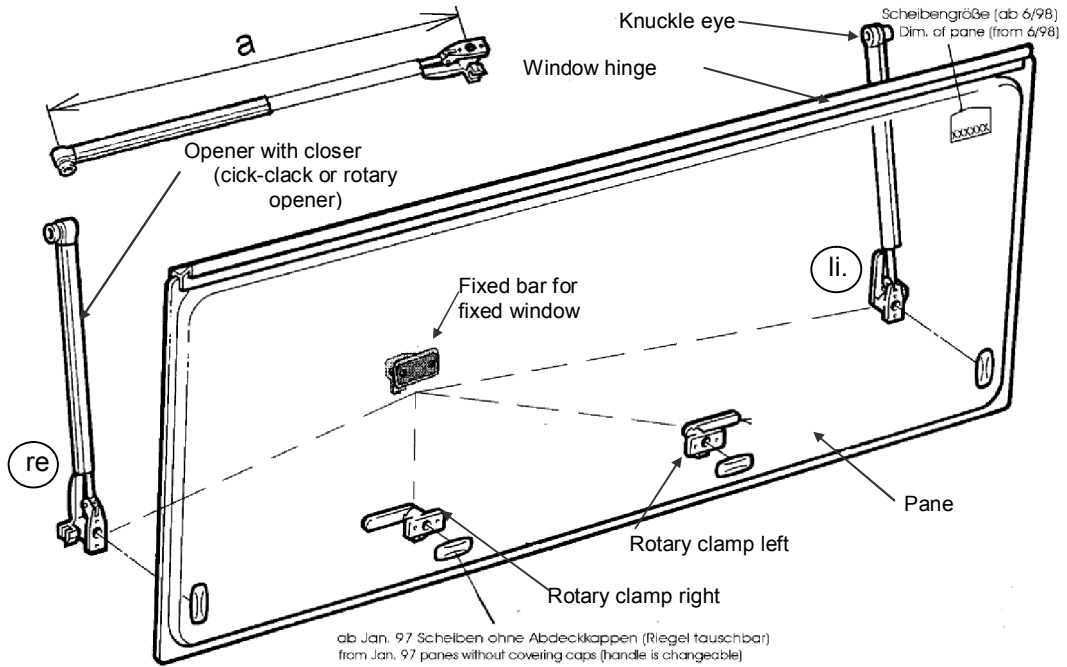


Knock out onehand operation sideways with the aid of a plastic hammer from the dovetailed guide. It is absolutely necessary to secure the closure rod against side displacement during the knocking out. Assembly of the new parts is implemented in reverse order.

Replacement of the slider and swallowtail section

As described under replacement of the one-hand operation, procedure is similar to the replacement of the slider and swallowtail section.

Windowpane



PROBLEM :

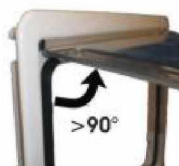
- Windowpane replacement
- Replacement of the opener
- Replacement of the rotary clamp

Window pane replacement



Loosen the fixing screws on the side articulated supports of the opener. Unlock pane on the lock.

Caution!: With opening the windowpane through 90° it releases itself from the frame hinge and falls out.



With fixing in a new acrylic pane, it must be ensured that the windowpane hinge is positioned properly in the frame hinge. With fixing the windowpane, the fitting angle must be $>90^\circ$, so that the windowpane hinge can be inserted into the frame hinge. Before closing, ensure freedom of movement in order to avoid possible damage in the hinge area. Then close window and fasten opener to the frame.

Replacement of the opener

In order to replace the opener, open window pane by approx. 45°. Then clip off the opener from the opener receptacle (rotary clamp). Dismantle openers at the articulated lug of the exterior frame. Mount the spare part in reverse order again.

Replacement of the rotary clamp

Loosen rotary clamp at the fixing screws and install new part in reverse order.