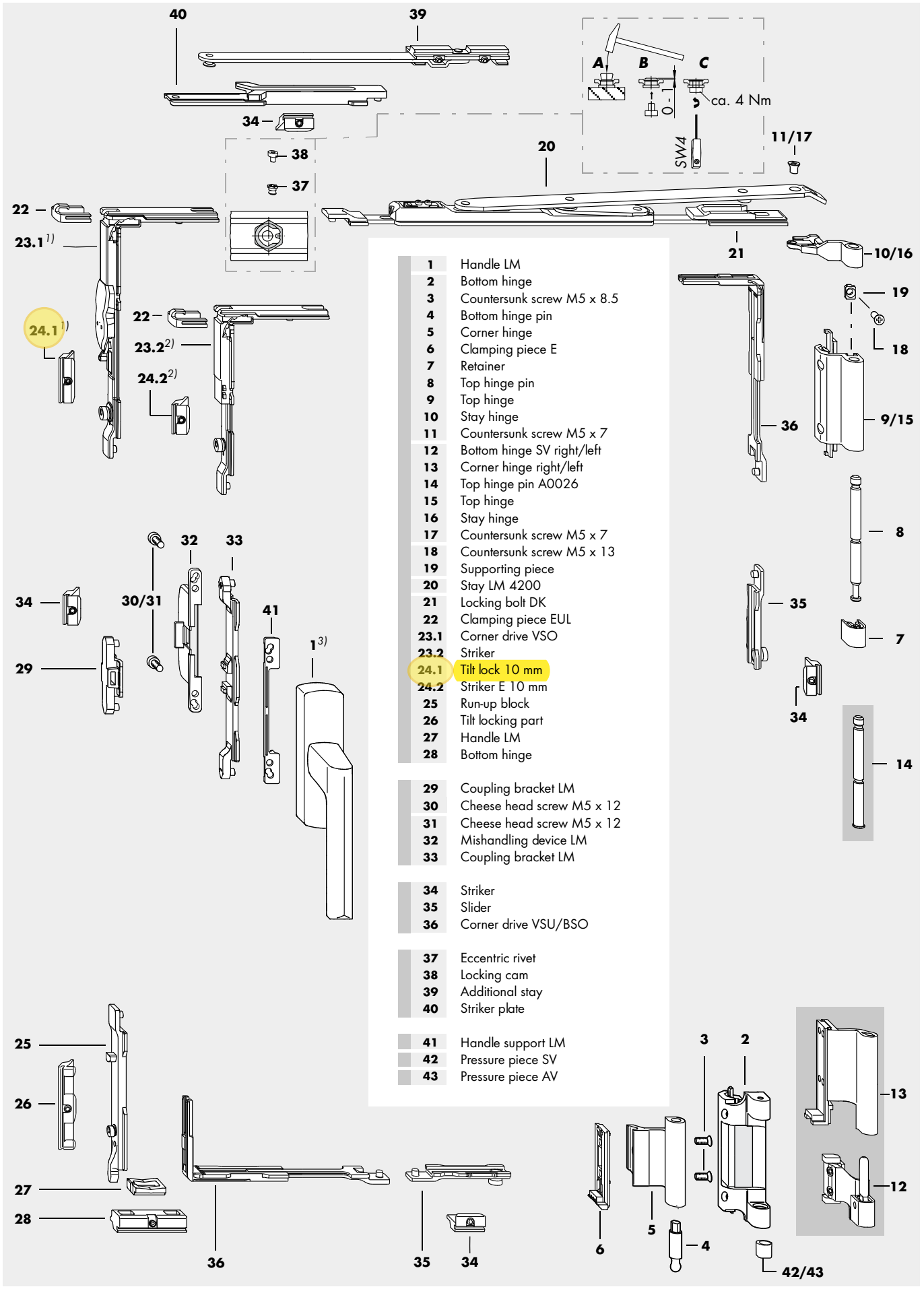
LM 4200-DK *Hardware layout*



1	Handle LM
2	Bottom hinge
3	Countersunk screw M5 x 8.5
4	Bottom hinge pin
5	Corner hinge
6	Clamping piece E
7	Retainer
8	Top hinge pin
9	Top hinge
10	Stay hinge
11	Countersunk screw M5 x 7
12	Bottom hinge SV right/left
13	Corner hinge right/left
14	Top hinge pin A0026
15	Top hinge
16	Stay hinge
17	Countersunk screw M5 x 7
18	Countersunk screw M5 x 13
19	Supporting piece
20	Stay LM 4200
21	Locking bolt DK
22	Clamping piece EUL
23.1	Corner drive VSO
23.2	Striker
24.1	Tilt lock 10 mm
24.2	Striker E 10 mm
25	Run-up block
26	Tilt locking part
27	Handle LM
28	Bottom hinge
29	Coupling bracket LM
30	Cheese head screw M5 x 12
31	Cheese head screw M5 x 12
32	Mishandling device LM
33	Coupling bracket LM
34	Striker
35	Slider
36	Corner drive VSU/BSO
37	Eccentric rivet
38	Locking cam
39	Additional stay
40	Striker plate
41	Handle support LM
42	Pressure piece SV
43	Pressure piece AV

All text passages marked with ">" are for sash width and sash height ≥ 1,250 mm.

Preparation

- ***A*** Make punch out for handle LM (**1**).
- ***B*** Open the operating rod guiding groove.
- ***C*** Remove the rebate seal in the area through which the hinges pass and rework the sash profile according to the specifications on page 6.
- ***D*** Rework operating rods S1 - S5 according to the specifications on page 6.
- ***> E*** Install eccentric rivet (**37**) and locking cam (**38**) on S3 as shown (see page 2).

Sash

- ***> A*** Insert slider (page 2: **35**) with operating rod S4 and corner drive VSU/BSO (**36**) vertically on the BSO.
- ***B*** Insert slider DK (**21**), stay LM 4200 (**20**) and operating rod S3 horizontally on the VSO.
- ***> C*** Insert locking bolt DK (**21**), stay LM 4200 (**20**), operating rod S3 and striker plate (**40**) horizontally on the VSO.
- ***> D*** Couple locking bolt DK (**21**) with corner drive VSU/BSO (**36**). Make sure positioning of the coupling piece for corner drive VSU/BSO (**36**) is correct.
- ***E*** Attach stay hinge (**10/16**) and stay LM 4200 (**20**) using countersunk screw M5 x 7 (**11/17**) (torque 2.5 ± 0.25 Nm).
- ***F*** Position stay hinge (**10/16**) according to specifications on page 4 and fasten stay LM 4200 (**20**) with punching screws.
- ***> G*** Insert slider (**35**) with operating rod S5 and corner drive VSU/BSO (**36**) vertically on the VSU.
- ***H*** Insert tilt lock 10 mm (**25**), operating rod S1, coupling bracket LM (**29/33**), operating rod S2 and corner drive VSO (**23.1/23.2**) vertically on the VSO.
- ***> I*** Couple tilt lock 10 mm (**25**) with corner drive VSU/BSO (**36**). Make sure positioning of coupling piece for corner drive VSU/BSO (**36**) is correct (Figure 1).
- ***J*** Couple corner drive VSO (**23.1/23.2**) with operating rod S3 "**>**striking plate (**40**)" and secure with clamping piece EUL (**22**).
- ***K*** Insert run-up block (**27**) horizontally on the VSU.
- *FBS-EUL* ***L*** Attach handle LM (**1**) with cheese head screws M5 x 12 (**30**) (torque 2.5 ± 0.25 Nm). Make sure the handle catch closes into the coupling bracket LM (**29**).
- *FBS-G* ***L*** Attach mishandling device LM on rebate (**32**) with cheese head screws M5 x 12 (**31**) to handle LM (**1**) (torque 2.5 ± 0.25 Nm). Make sure the handle catch closes into the coupling bracket LM (**33**).
- *BS LM 4200* ***L*** Press bottom hinge pin (**4**) into corner hinge (**5**) DIN right or DIN left.
- *BS LM 4200* ***M*** Insert clamping piece E (**6**) vertically on the BSU and attach corner hinge (**5**) using countersunk screws M5 x 8.5 (**3**) (torque 2.5 ± 0.25 Nm).
- *BS LM 4200/SV* ***N*** Insert corner hinge right/left (**13**) into the sash groove and fasten with the pre-installed countersunk screws M5 x 8.5 (torque 2.5 ± 0.25 Nm).

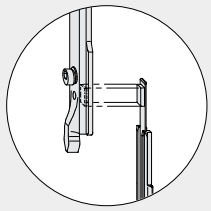


Figure 1

Frame

- ***A*** For sashes weighing *more than 100 kg*, fasten the supporting piece (**19**) to the frame using countersunk screws M5 x 13 (**18**) (torque 2.5 ± 0.25 Nm) (see page 7).
- *BS LM 4200* ***B*** Position bottom hinge (**2**) and top hinge (**9**) and fix both in place by tightening the cheese head screws (torque 2.5 ± 0.25 Nm).
- *BS LM 4200/SV* ***B*** Position bottom hinge SV right/left (**12**) and top hinge (**15**) and fix both in place by tightening the cheese head screws (torque 2.5 ± 0.25 Nm).
- ***C*** Connect top hinge pin (**8**) with retainer (**7**) and insert into the top hinge (**9**) from underneath.
- *BS LM 4200* ***C*** Insert top hinge pin A0026 (**14**) into top hinge (**15**) from below.
- *BS LM 4200/SV* ***D*** Position striker EUL-FBS (**24.1**)/striker (**24.2**), striker E 10 mm (**26**) and tilt locking part (**28**) according to specifications on page 7 and fix each in place using grub screws (torque 1.5 ± 0.25 Nm).
- ***> E*** Position strikers (**34**) on the BS and VS according to specifications on page 7 and fix each in place with grub screws (torque 1.5 ± 0.25 Nm).
- ***> F*** Position strikers (**34**) on the VSU and VSO according to specifications on page 7 and fix each in place with grub screws (torque 1.5 ± 0.25 Nm).
- ***> G*** For sash widths from 1,251 mm to 1,600 mm and/or sash weights in excess of 100 kg (sash width min. 1,020 mm), use additional stay LM 4200 (**39**) and position according to specifications on page 7 (torque 2.5 ± 0.25 Nm).

Final installation

- ***A*** Hinge the sash. Push top hinge pin (**8/14**) through and snap into place.
- ***B*** Top hinge pin (**8/14**) **must** be secured in the stay hinge (**10/16**) with a grub screw (torque 2.5 ± 0.25 Nm) (see Figure 2).
- ***C*** Check that the window works correctly.

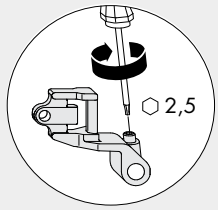


Figure 2

Making adjustments

	A	Width adjustment:	
		continuous	using stay LM 4200 (**20**) +2 mm / - 3 mm
BS LM 4200			using pressure piece SV (**42**) ±0.8 mm
BS LM 4200/SV		continuous	using bottom hinge SV right/left (**12**) ±1 mm (make adjustment after glazing, under load and with the sash **open**)
BS LM 4200	***B***	Height adjustment:	after removal of the top pressure piece from the bottom hinge (**2**)
BS LM 4200			using 4 mm hexagon socket screw in corner hinge (**5**) +1.5 / - 1 mm for FH ≤ 1,600 mm in tilt position, for FH ≥ 1,600 mm in turn position
BS LM 4200/SV			using 4 mm hexagon socket screw in corner hinge right/left (**13**) +2 / -1 mm
	C	Pressure adjustment:	using eccentric locking cam
BS LM 4200			pressure piece AV (**43**) ±0.5 mm

Nederlandse vertaling

Siegenia - Nederlandse vertaling

Bron: Siegenia ALU-planningshandboek LM 5200 / LM 4200 / axxent (Engels), Duits, blz. 123, 126. Vertaling Kozijn Parts.

Dit artikel: MFKP0070-100060 (in de bladen hiervoor geel gemarkeerd)

Siegenia handboek blz. 123 - LM 4200-DK Hardware layout (LMen1362 blz. 2)

24.1 Tilt lock 10 mm / 24.2 Striker E 10 mm	24.1 kiepvergrendeling met nok 10 mm / 24.2 sluitstuk E 10 mm
25 Run-up block / 26 Tilt locking part	25 oploopblok / 26 kiepsluitstuk (tegenstuk op het kozijn)
29 Coupling bracket LM / 30, 31 Cheese head screw M5 x 12 / 32 Mishandling device LM / 33 Coupling bracket LM	29 koppelbeugel / 30, 31 cilinderschroef M5 x 12 / 32 anti-foutbediening LM / 33 koppelbeugel
1 Handle LM / 20 Stay LM 4200 / 23.1 Corner drive VSO / 34 Striker / 36 Corner drive VSU/BSO	1 kruk / 20 schaar / 23.1 hoekoverbrenger sluitzijde boven / 34 sluitstuk / 36 hoekoverbrenger

Siegenia handboek blz. 126 - LM 4200-DK Assembly instructions (LMen1362 blz. 5)

H Insert tilt lock 10 mm, operating rod S1, coupling bracket LM, operating rod S2 and corner drive VSO vertically on the VSO	H kiepvergrendeling 10 mm, stang S1, koppelbeugel, stang S2 en hoekoverbrenger verticaal aan de sluitkant aanbrengen
K Insert run-up block horizontally on the VSU	K oploopblok liggend onderaan de sluitkant aanbrengen
L Attach mishandling device LM on rebate with cheese head screws M5 x 12 to handle LM (torque 2.5 Nm). Make sure the handle catch closes into the coupling bracket LM	L anti-foutbediening met cilinderschroeven M5 x 12 samen met de kruk vastzetten (2,5 Nm); de meenemer van de kruk moet in de koppelbeugel grijpen

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