

Outdoor front end

REPLACEMENT PARTCATALOGUE and ASSEMBLYMANUAL



Version: 20.10.2023



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Assembly manual outdoor front end

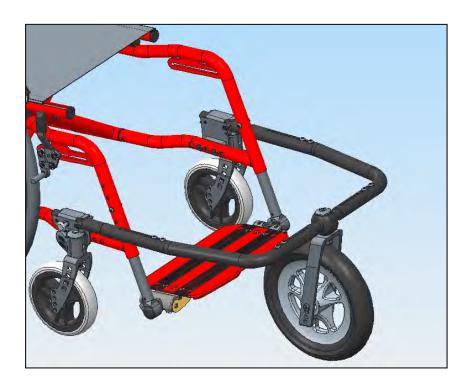
Attention, please note:

The outdoor front end is only approved up to the max. load of the wheelchair.

The outdoor front end is suitable for a maximum payload of 100 kg when installed on models from other manufacturers.



Telescopic outdoor front end for all models except Mio, Kika and Mio Move



Attention, please note:

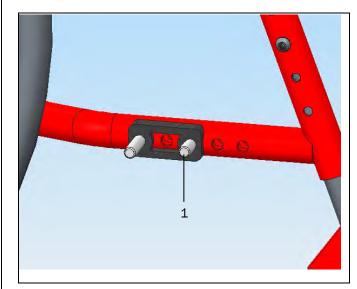
The outdoor front end is only approved up to the max. load of the wheelchair.

The outdoor front end is suitable for a maximum payload of 100 kg when installed on models from other manufacturers.

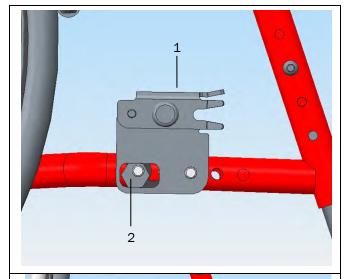


1. Assembly

1.1 Adapter

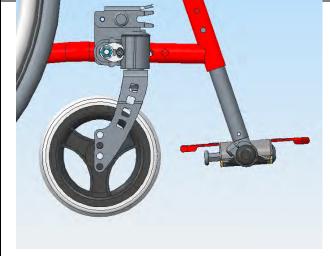


Remove the screws from the caster adapter attachment and replace them with the supplied set. The shorter of the two screws supplied is mounted at the front (item 1).



Mount the outdoor adapters (item 1) to the left and right between the half shell and the caster adapter such that the guide slot in the outdoor adapter points to the front.

Position the hexagon adjustment disc (item 2) in the recess provided for it.

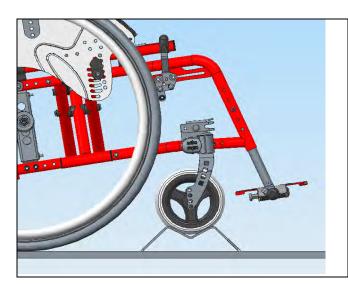


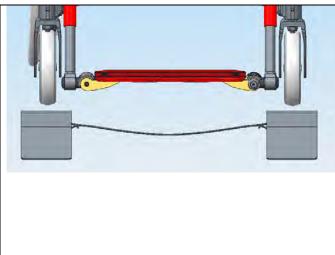
Align the caster adapter perpendicular to the ground.



1.2 Jack up aid

Align the swivel casters of your wheelchair so that they point straight ahead. Position the two jack up aids so that they are approximately in the middle of the swivel casters. Then tie the cord so that it is loosely tensioned in this position between the two jack up aids.

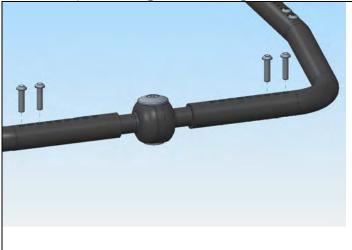


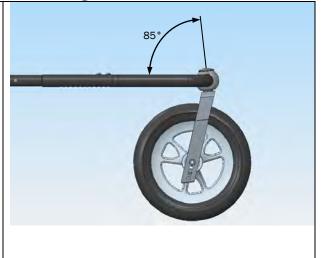


1.3.1 Outdoor front end (set width)

There are 3 sizes of the front end component, referred to here as size 1, size 2 and size 3. You will be automatically supplied with the right size for your wheelchair ex works. The width of the front end component may have to be adjusted to the width of your wheelchair. To do so, remove the screw fittings from the front part of the front end and set the correct width. Retighten the screw fittings firmly (tightening torque 10Nm). The exact adjustment positions and the bores to be used are described in Chapter 3 "Model overview" and cover all suitable wheelchair models.

Remove the screw fittings in the front part of the front end and set the correct width here. Ensure that the telescopic steering head bearing incl. caster is fitted at an angle of 5°.

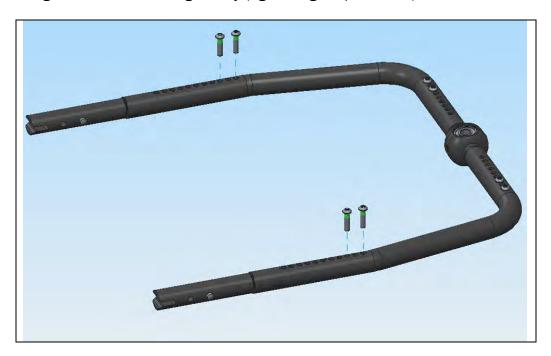






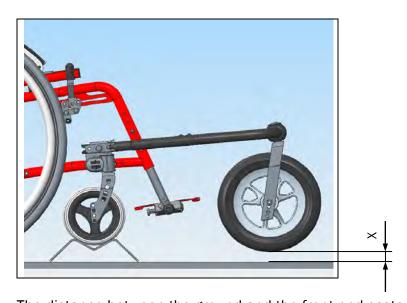
1.3.2 Outdoor front end (set length)

The outdoor front end can also be telescoped in length. You can adjust the front end tubes to your desired length. To do so, remove the screw fittings on the front end tubes and set the correct length. Retighten the screw fittings firmly (tightening torque 10Nm).



1.4 Height adjustment of the outdoor front end

Place the wheelchair on a level surface with the front end attached and the casters on the jack up aid. The front end caster should now have a distance (X) of 20 to 25mm to the ground.



The distance between the ground and the front end caster can be adjusted in two ways.

- Shifting of the front end caster in the caster fork. Retighten the screw fittings after setting firmly (tightening torque 7Nm).
- By turning the hexagon adjustment disc (the mounting angle of the outdoor adapter is changed here), see page 3, item 2. Please note that the rear screw fittings of the caster adapter must be removed again here.



1.5 Splash guard (optional)

Remove the nut and washer from the caster fork. Use the splash guard instead of the washer. Then

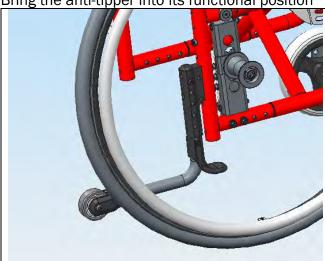
retighten the screw fittings firmly.



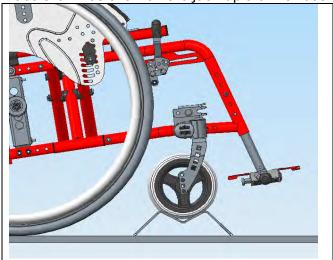


2. Operation

Bring the anti-tipper into its functional position

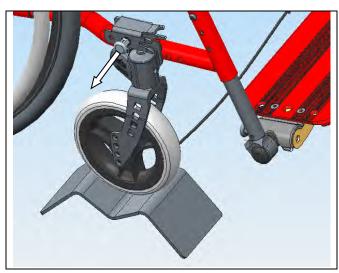


Place the wheelchair on the jack up aid with both steering casters.



Apply the wheel lock of the wheelchair. Lock the latch, left and right, in the open position

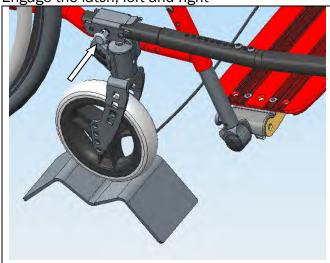




Evenly insert the front end, left and right, into the adapters up to the stop.



Engage the latch, left and right



Please check that the structure is securely positioned in the intake and locked into place correctly. Release the wheel lock and lower the wheelchair from the jack up aid.



3. Model overview / Size chart for assembly without Hemi adapter

Model SW	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54
Jump alpha abducted	size 1 3	size 2	size 2 2	size 2 3	size 2 4	size 2 1	size 4 2	size 4 3								
Jump alpha straight			size 1 2	size 1 3	size 2 1	size 2 2	size 2 3	size 2 4								
Jump beta abducted				size 2 3	size 2 4	size 4 1	size 4 2	size 4 3	size 4 4	size 4 5	size 4 6	size 4 7	size 4 8	size 5 4		
Jump beta straight				size 1 3	size 2 1	size 2 2	size 2 3	size 2 4	size 4 1	size 4 2	size 4 3	size 4 4	size 4 5	size 4 6		
Vector abducted		size 2 1	size 2 2	size 2 3	size 3 4	size 4 1	size 4 2	size 4 3	size 4 4	size 4 5	size 4 6	size 5				
Vector straight, cro.			size 1 2	size 1 3	size 2 1	size 2 2	size 2 3	size 3 4	size 4 1	size 4 2	size 4	size 4 4				
Tilty Vario			size 4 2	size 4 3	size 4 4	size 4 5	size 4 6	size 5 2	Size 5	size 5 4	size 5 5					
Loop				size 4 1		size 4 3		size 4 5		size 5 2		size 5 4		size 5 6		
Loop RS				size 4 1	size 4 2	size 4 3	size 4 4	size 4 5	size 4 6	size 5 2	size 5 3	size 5 4	size 5 5	size 5		

^{*}Trend, Trend Sport (no Hemi)

Legend size 1 Front end tube small, size 1 (together with telescopic steering head bearing 205)

size 2 Front end tube medium, size 2 (together with telescopic steering head bearing

205)

size 3 Front end tube large, size 3 (together with telescopic steering head bearing 205)

size 4 Front end tube large, size 3 (together with telescopic steering head bearing 285)

size 5 Front end tube XL, size 4 (together with telescopic steering head bearing 285)

Green (without stripes):

Yellow (horizontally striped):

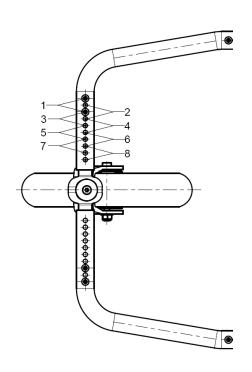
Orange (diagonally striped):

4cm growable 2cm growable

Wheelchair not growable or growable via

side guards

1 - 8: Screw fitting as shown in the drawing below.





3.1 Model overview / Size chart for assembly with Hemi adapter

Attention: When mounting the Hemi adapter with a caster distance of 10mm, please choose a larger seat width.

Model SW	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54
Jump alpha abducted	size 2 4	size 4 1	size 4 2	size 4 3	size 4 4	size 4 5	size 4 6	size 4 7	size 4 8							
Jump alpha straight			size 2 3	size 2 4	size 4 1	size 4 2	size 4 3	size 4 4	size 4 5							
Jump beta abducted				size 4 3	size 4 4	size 4 5	size 4 6	size 4 7	size 4 8	size 5 4	size 5 5	size 5 6	size 6 3	size 6 4	size 6 5	
Jump beta straight				size 2 4	size 4 1	size 4 2	size 4 3	size 4 4	size 4 5	size 4 6	size 4 7	size 4 8	size 5 4	size 5	size 5 6	
Vector abducted		size 4 1	size 4 2	size 4 3	size 4 4	size 4 5	size 4 6	size 5 2	size 5	size 5 4	size 5 5	size 5	size 6			
Vector straight, cro.			size 2	size 3 4	size 4 1	size 4 2	size 4	size 4 4	size 4 5	size 4 6	size 5	size 5	size 5 4			
Tilty Vario			size 4	size 5	size 4	size 5	size 5 5	size 5	size 6	Size 6	size 6 5					
Loop				size 4 5		size 5 2		size 5 4		size 5		size 6 4		size 6 6		
Loop RS				size 4 5	size 5 1	size 5 2	size 5	size 5 4	size 5 5	size 5	size 6	size 6 4	size 6 5	size 6 6	size 6	

Legend size 1 Front end tube small, size 1 (together with telescopic steering head bearing 205)

size 2 Front end tube medium, size 2 (together with telescopic steering head bearing

205)

size 3 Front end tube large, size 3 (together with telescopic steering head bearing 205)

size 4 Front end tube large, size 3 (together with telescopic steering head bearing 285)

size 5 Front end tube XL, size 4 (together with telescopic steering head bearing 285)

size 6 Front end tube XXL, size 5 (together with telescopic steering head bearing 285)

Green (without stripes):

Yellow (horizontally striped):

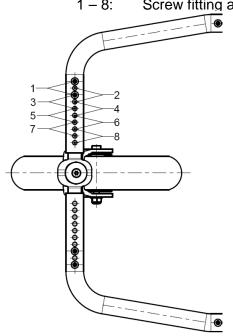
Orange (diagonally striped):

4cm growable 2cm growable

Wheelchair not growable or growable via

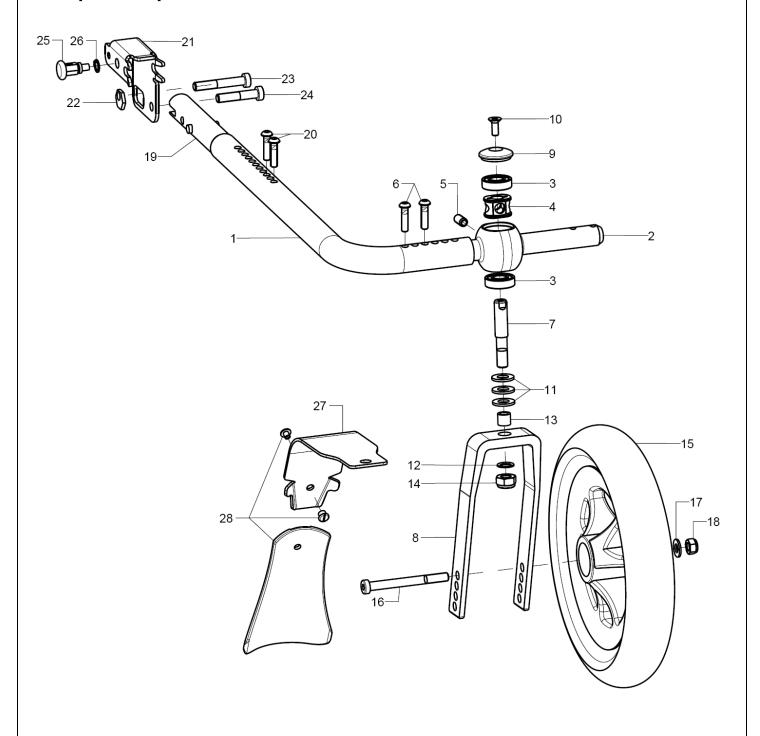
side guards

1 - 8: Screw fitting as shown in the drawing below.





4. Replacement parts list





Item	M/1	Drawing No.	Type No.	Item designation	Variant
1 - 28		xxxxxxxxxxxx		Telescopic outdoor front end cpl.	Wheelchair model, SW, frame variant (abducted, straight), track spacer
1	2	59.95.20.07.00.00	59952007	Front end tube size 1 for outdoor front end, telescopic	Wheelchair model, SW, frame variant (abducted, straight)
altern.	2	59.95.20.08.00.00	59952008	Front end tube size 2 for outdoor front end, telescopic	Wheelchair model, SW, frame variant (abducted, straight)
altern.	2	59.95.20.09.00.00	59952009	Front end tube size 3 for outdoor front end, telescopic	Wheelchair model, SW, frame variant (abducted, straight)
altern.	2		59952010	Front end tube size 4 for outdoor front end, telescopic	Wheelchair model, SW, frame variant (abducted, straight)
2 - 6	1	59.95.20.01.40.00	59952002	Telescopic unit 205 mm incl. ball bearing, damper element, pressure spring piece and assembly screws	Wheelchair model, SW, frame variant (abducted, straight)
altern.	1	59.95.20.02.40.00	59952003	Telescopic unit 285 mm incl. ball bearing, damper element, pressure spring piece and assembly screws	Wheelchair model, SW, frame variant (abducted, straight)
3	2		200011	Deep groove ball bearing ø 28/12x8 6001z	
4	1	28.05.01.04.00.00		Damper element	
5	1	04.14.50.80.21.20	285103	Pressure spring piece M8x19	
6	4			Pan-head screw with hexagon socket. ISO 7380, M6x25, Tuflock	
7	1	28.50.00.03.00.10	285101	Steering axle 65 mm for track fixation	
8		28.44.01.01.00.00	2844	Caster fork 60x189, black for outdoor front end	
9 - 14	1		284499	Assembly set caster fork outdoor front end; (cover cap, Torx screw, sleeve, washers, nut)	
9-10	1	28.21.07.02.00.10	282108	Cover cap aluminium ø 32, black (caster/outdoor front end) incl. assembly screw M6x16 Torx)	
10	1			Countersunk screw with Torx ISO 14581 - M6x16 vz, black	
11	3(2)			Washer DIN 125 - A 10.5	2 pcs. for splash guard assembly
12	1			Securing washer S10 - FST vz	
13	1	04.31.10.14.01.01		DU bushing slotted, Ø10/12x10	
14	1			Hexagon nut self-locking low form DIN 985-M10	
15	1	04.52.43.10.00.10	2837	Caster ø250x50, 6 spokes for outdoor front end incl. pneumatic tyres black	
16 -18	1		283799	Assembly set caster outdoor front end (cylinder screw M8x80, washer, nut)	
16	1			Cylinder screw DIN 7984 M8x80	
17	1			Washer DIN 125 - A 8.4	
18	1			Hexagon nut self-locking low form DIN 985 – M8	
19 -20	2	59.95.20.04.00.00	59952004	Telescopic adapter 268 mm, black incl. assembly screws	
20	4			Pan-head screw with hexagon socket. ISO 7380, M6x25, Tuflock	
21	1	59.95.01.01.02.10	599502	Adapter right (outdoor front end) incl. latch	
undisc losed	1	59.95.01.01.01.10	599501	Adapter left (outdoor front end) incl. latch	
	2		59950199	Assembly set adapter for outdoor front end (2 cylinder head screws for installation on frame with ø24 mm)	
22	1	59.95.01.06.00.10		Adjustment disc hexagonal	
23	1			Cylinder-head screw DIN 7984 M8x	Wheelchair, track spacer
24	1			Cylinder-head screw DIN 7984 M8x	Wheelchair, track spacer
25 -26	1	04.14.43.60.02.00	690101	Latch ø6/M10x1x31 with locking device incl. safety ring	
26	1			Safety ring 10, DIN 471	
27 -28	1	59.95.20.10.00.00	59952012	Plastic splash guard incl. holder	
27	1	59.95.20.11.01.00		Splash guard holder	
28	1	59.95.20.12.00.00	59952013	Plastic splash guard for outdoor front end	



Outdoor front end for wheelchair model Mio + Mio Carbon Design 2018



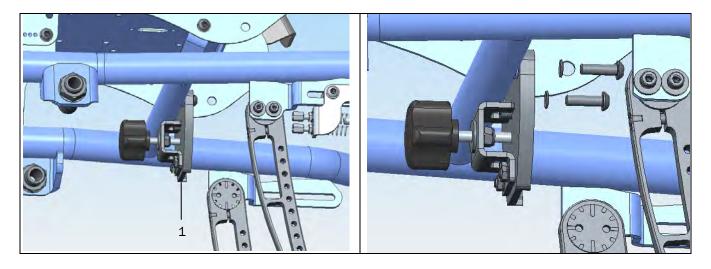
Assembly with long lower leg length (from approx. 15cm)

Assembly with short lower leg length (up to approx. 15cm)

1. Assembly

1.1 Holding plate on the front crossbeam

Mount the pre-assembled holding plate (item 1) to the front frame crossbeam using the screws (panhead screw M6x20) and securing washers (Schnorr washer) supplied.

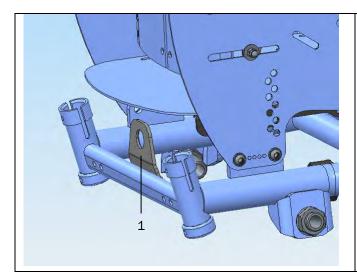


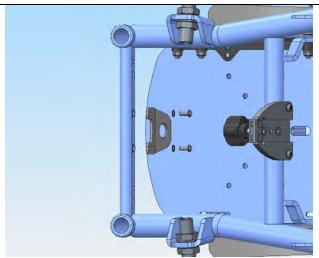


1.2 Rear holding plate on the rear crossbeam

1.2.1 With long lower leg lengths (from approx. 15cm)

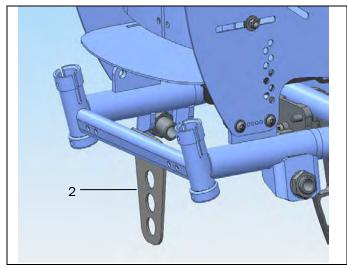
Attach the rear holding plate (item 1, one bore $\emptyset18$ mm) to the rear crossbeam using the pan-head screws M5x12 and the Schnorr washers (for Mio Carbon ^{Design 2018} pan-head screw DIN7980 M6x35 + 2x washer DIN125 M6, and safety cap nut DIN986 M6).

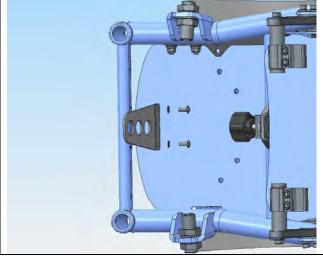




1.2.2 With short lower leg lengths (up to approx. 15cm)

Attach the rear holding plate (item 2, three bores $\emptyset18$ mm) to the rear crossbeam using the pan-head screws M5x12 and the Schnorr washers.





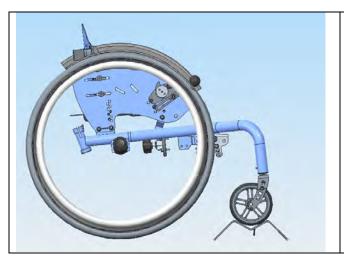


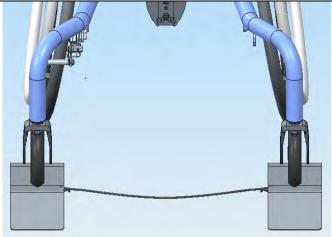
1.3 Jack up aid

Align the swivel casters of your wheelchair so that they point straight ahead.

Position the jack up aid so that it is approximately in the middle of the swivel casters.

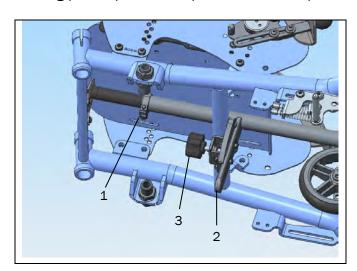
Then tie the cord so that it is loosely tensioned in this position between the two jack up aids. Apply the wheel lock of the wheelchair.





1.4 Assembly of the front end component

Open the clamp (item 1) of the cone tube. Insert the guiding pins of the height adjustment (item 2) into the front holding plate. Tighten the star grip (item 3) firmly. Insert the cone tube into the rear holding plate up to the stop. Close the clamp of the cone tube.



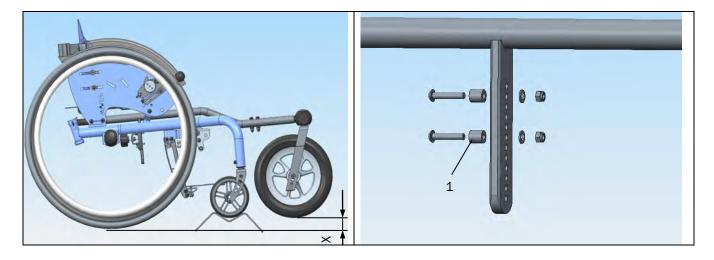


1.5 Height adjustment of the outdoor front end

The front end caster should now have a distance (X) of 20 to 25mm to the ground.

The distance between the ground and the front end caster can be adjusted in two ways.

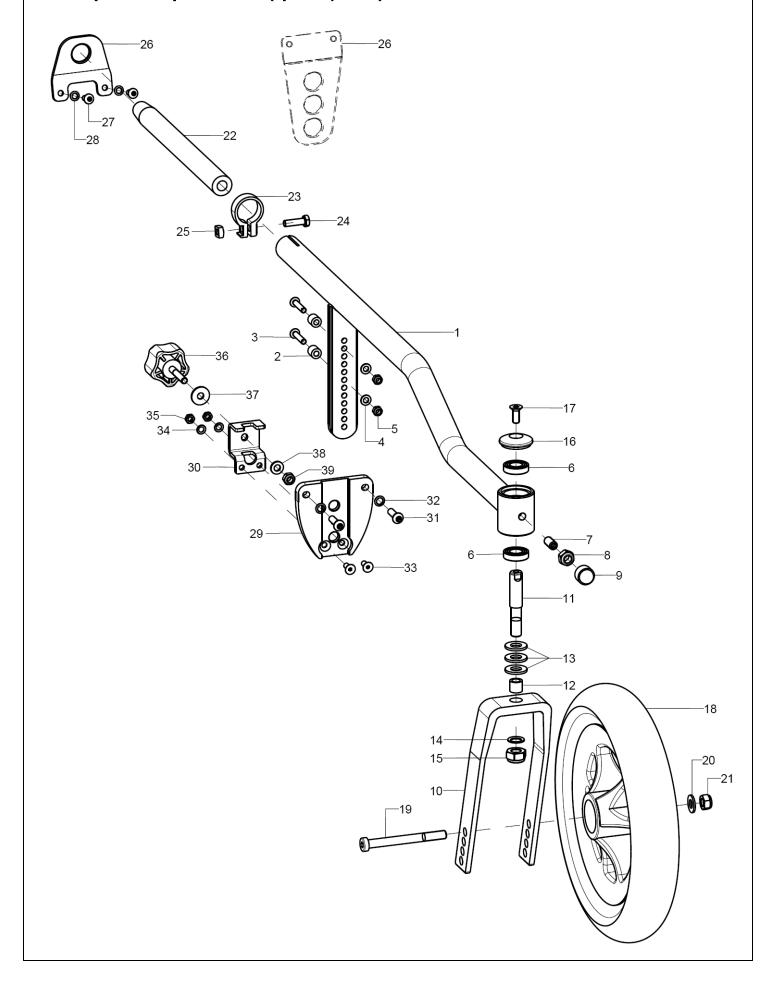
- Shifting of the front end caster in the caster fork. Retighten the screw fittings after setting firmly (tightening torque 7Nm).
- By shifting the intake pins (item 1) in the height adjustment.



Please check that the structure is securely positioned in the intake and locked into place correctly. Release the wheel lock and lower the wheelchair from the jack up aid.



2.1 Replacement parts list Mio (up to XX/2015)

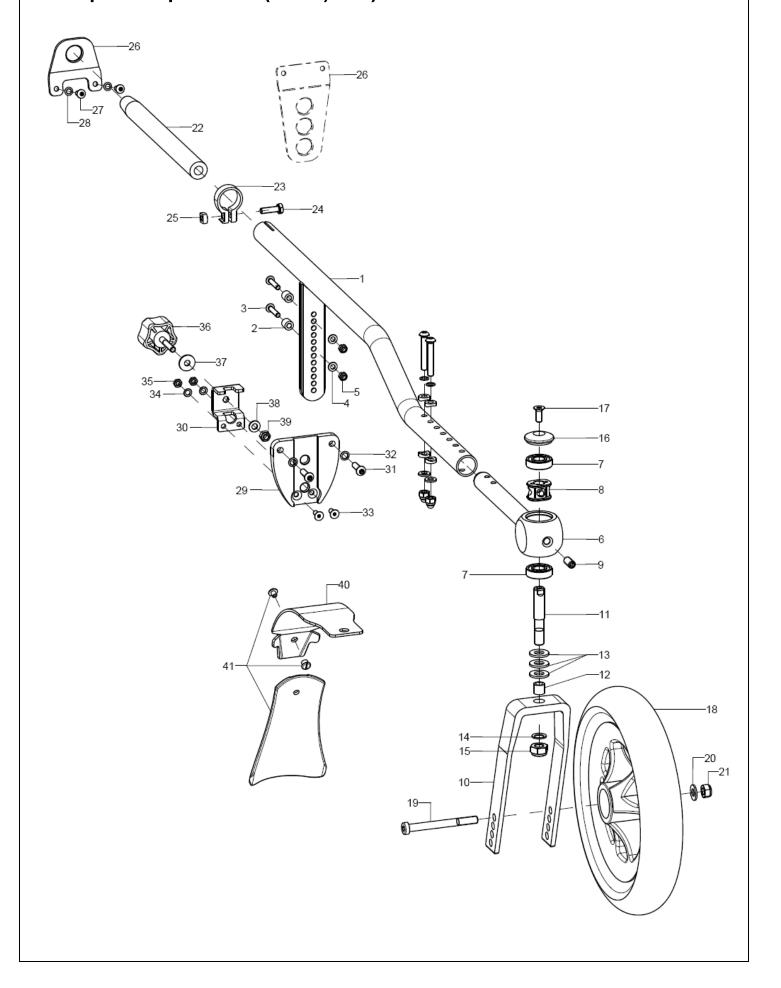




Item	M/1	Drawing No.	Type No.	Item designation	Variant
1 - 39	1	XXXXXXXXXXXXXXX	599517	Outdoor front end for Mio, cpl. (please specify LLL)	Lower leg length > 16 cm
1-9	1	59.95.15.01.00.73	59957301	Front end tube black for outdoor front end, Mio incl. ball bearing, pressure spring piece and screw fitting	Lower leg length <16 cm
2	2			Distance sleeve N0370, Ø10xM6x10	
3	2			Pan-head screw with hexagon socket ISO 7380, M5x25	
4	2			Washer DIN 125 - A 5.3	
5	2			Hexagon nut self-locking low form DIN 985 – M5	
6	2			Deep groove ball bearing ø24/12x6	
7-9	1		285103	Pressure spring piece M8x19 incl. nut and cap	
8	1			Hexagon nut self-locking low form DIN 985 – M8	
9	1			Hexagonal protective cap for SW13, black, (M8	
10	1	28.44.01.01.00.00	2844	Caster fork 60x189, black for outdoor front end	
11	1	28.50.00.03.00.10	285101	Steering axle 65 mm for track fixation	
12 -17	1		284499	Assembly set caster fork outdoor front end; (cover cap, Torx screw, sleeve, washers, nut)	
12	1	04.31.10.14.01.01		DU bushing slotted, Ø10/12x10	
13	3(2)			Washer DIN 125 - A 10.5	2 pcs. for splash guard assembly
14	1			Securing washer S10 - FST vz	
15	1			Hexagon nut self-locking low form DIN 985-M10	
16	1		282108	Adapter cap	
17	1			Countersunk screw with Torx ISO 14581 - M6x16 vz, black	
18	1	04.52.43.10.00.10	2837	Caster ø250x50, 6 spokes for outdoor front end incl. pneumatic tyres black	
19 -21	1		283799	Assembly set caster outdoor front end (cylinder screw M8x80, washer, nut)	
19	1			Cylinder screw DIN 7984 M8x80	
20	1			Washer DIN 125 - A 8.4	
21	1			Hexagon nut self-locking low form DIN 985 - M8	
22 -25	1	59.95.15.04.00.73	59957304	Cone tube Ø20x5x230 incl. assembly accessories	
23	1	59.95.15.06.00.73		Clamp D24	
24	1			Hexagon head screw DIN 933 M6x20 - 8.8 vz	
25	1			Hexagon nut self-locking low form DIN 985 – M6	
26 -28	1	59.95.15.05.00.73	59957305	Holding plate rear short, black for OTV Mio incl. assembly material	Lower leg length from 16 cm
altern.	1	59.95.15.09.00.73	59957306	Holding plate rear long, black for OTV Mio incl. assembly material	Lower leg length <16 cm
27	2			Pan-head screw with hexagon socket ISO 7380, M5x12	
28	2			Securing washer S5 - FST vz	
29 -39	1	59.95.15.03.00.73	59957303	Holding plate front, black for OTV Mio incl. spacer with star grip and assembly material	
30	1	59.95.15.08.00.73		Spacer	
31	2			Pan-head screw with hexagon socket ISO 7380, M6x20	
32	2			Securing washer S6 - FST vz	
33	2			Countersunk screw with hexagon socket DIN 7991 M5x12 - A2	
34	2			Securing washer S5 - FST vz	
35	2			Low hexagon nut DIN 439 M5	
36	1			5 star grip ø40 - M6x35 external thread, black	
37	1			Washer DIN 9021 - 6.4 - St vz	
38	1			Washer DIN 125 - A 6.4 - PA black	
39	1			Hexagon nut self-locking low form DIN 985 - M6	



2.2 Replacement parts list Mio (from XX/2015) + Mio Carbon $^{\text{Design }2018}$





Item	M/1	Drawing No.	Type No.	Item designation	Variant
1 - 41	1	xxxxxxxxxxxx	599517	Telescopic outdoor front end for Mio, cpl. (please specify LLL)	Lower leg length > 16 cm Lower leg length <16 cm Mio Carbon Design 2018
1-5	1	59.95.15.01.00.73	59957302	Front end tube black for outdoor front end, Mio incl. screw fitting	······································
2	2			Distance sleeve N0370, Ø10xM6x10	
3	2			Pan-head screw with hexagon socket ISO 7380, M5x25	
4	2			Washer DIN 125 - A 5.3	
5	2			Hexagon nut self-locking low form DIN 985 – M5	
6-8	1	59.95.35.09.00.77	59957310	Telescopic steering head bearing pre-assembled	
7	2		200011	Deep groove ball bearing ø 28/12x8 6001z	
8	1	28.05.01.04.00.00		Damper element	
9	1		285103	Pressure spring piece M8x19	
10	1	28.44.01.01.00.00	2844	Caster fork 60x189, black for outdoor front end	
11	1	28.50.00.03.00.10	285101	Steering axle 65 mm for track fixation	
12 -17	1		284499	Assembly set caster fork outdoor front end; (cover cap, Torx screw, sleeve, washers, nut)	
12	1	04.31.10.14.01.01		DU bushing slotted, Ø10/12x10	
13	3(2)			Washer DIN 125 - A 10.5	2 pcs. for splash guard assembly
14	1			Securing washer S10 - FST vz	
15	1			Hexagon nut self-locking low form DIN 985–M10	
16-17	1	28.21.07.02.00.10	282108	Cover cap aluminium ø 32, black (caster/outdoor front end) incl. assembly screw M6x16 Torx)	
17	1			Countersunk screw with Torx ISO 14581 - M6x16 vz, black	
18	1	04.52.43.10.00.10	2837	Caster ø250x50, 6 spokes for outdoor front end incl. pneumatic tyres black	
19 -21	1		283799	Assembly set caster outdoor front end (cylinder screw M8x80, washer, nut)	
19	1			Cylinder screw DIN 7984 M8x80	
20	1			Washer DIN 125 - A 8.4	
21	1			Hexagon nut self-locking low form DIN 985 - M8	
22 -25	1	59.95.15.04.00.73	59957304	Cone tube Ø20x5x230 incl. assembly accessories	
23	1	59.95.15.06.00.73		Clamp D24	
24	1			Hexagon head screw DIN 933 M6x20 - 8.8 vz	
25	1			Hexagon nut self-locking low form DIN 985 – M6	
26 -28	1	59.95.15.05.00.73	59957305	Holding plate rear short, black for OTV Mio incl. assembly material	Lower leg length from 16 cm
altern.	1	59.95.15.09.00.73	59957306	Holding plate rear long, black for OTV Mio incl. assembly material	Lower leg length <16 cm
altern.	1	59.95.16.10.00.73	59957307	Holding plate rear, black for outdoor front end for Mio Carbon 2018	For Mio Carbon Design 2018
27	2			Pan-head screw with hexagon socket ISO 7380, M5x12	
28	2			Securing washer S5 - FST vz	
undisc losed	2			Pan-head screw with hexagon socket ISO 7380, M6x35	For Mio Carbon Design 2018
undisc losed	4			Washer DIN 125 - A 6.4	For Mio Carbon Design 2018
undisc losed	2			Cap nut with clamping part DIN 986 - M6	For Mio Carbon Design 2018
29 -39	1	59.95.15.03.00.73	59957303	Holding plate front, black for OTV Mio incl. spacer with star grip and assembly material	
30	1	59.95.15.08.00.73		Spacer	
31	2			Pan-head screw with hexagon socket ISO 7380, M6x20	
32	2			Securing washer S6 - FST vz	
33	2			Countersunk screw with hexagon socket DIN 7991 M5x12 - A2	
34	2			Securing washer S5 - FST vz	
35	2			Low hexagon nut DIN 439 M5	
36	1			5 star grip ø40 - M6x35 external thread, black	



37	1			Washer DIN 9021 - 6.4 - St vz	
38	1			Washer DIN 125 - A 6.4 - PA black	
39	1			Hexagon nut self-locking low form DIN 985 – M6	
40-41	1	59.95.20.10.00.00	59952012	Plastic splash guard incl. holder	
40	1	59.95.20.11.01.00		Splash guard holder	
41	1	59.95.20.12.00.00	59952013	Plastic splash guard for outdoor front end	



Outdoor front end for wheelchair model Mio Move from 2017



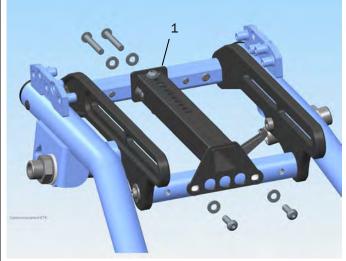
1 Assembly

The outdoor front end comes in 3 sizes, depending on the driving wheel size. You will be automatically supplied with the right size for your wheelchair ex works.

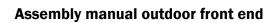
1.1 Mounting the intake on the wheelchair

Mount the intake (item 1) on the frame.





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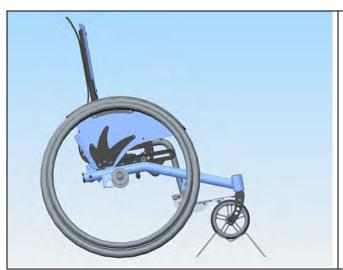


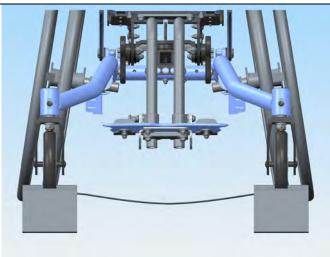
1.2 Jack up aid

Align the swivel casters of your wheelchair so that they point straight ahead.

Position the two jack up aids so that they are approximately in the middle of the swivel casters.

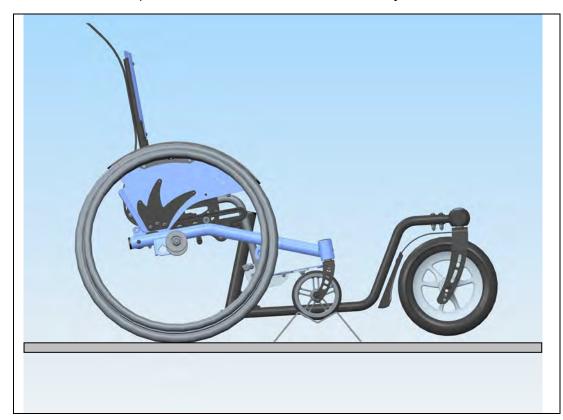
Then tie the cord so that it is loosely tensioned in this position between the two jack up aids. Apply the wheel lock.





1.3 Insert front end component

Now insert the front end component into the intake that has already been mounted.

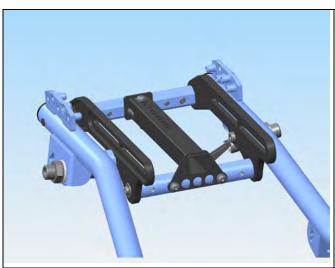


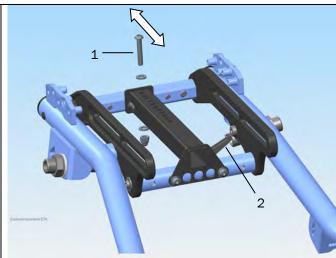
١



You are now able to adjust the insertion depth of the front end component.

Adjust the stop screw so that the footrest does not collide with the front end component when the seat is tilted. The stop screw can be mounted in both the vertical and the horizontal bores. Tighten the clamp lever (item 2) firmly after mounting the front end component.





1.4 Splash guard (optional)

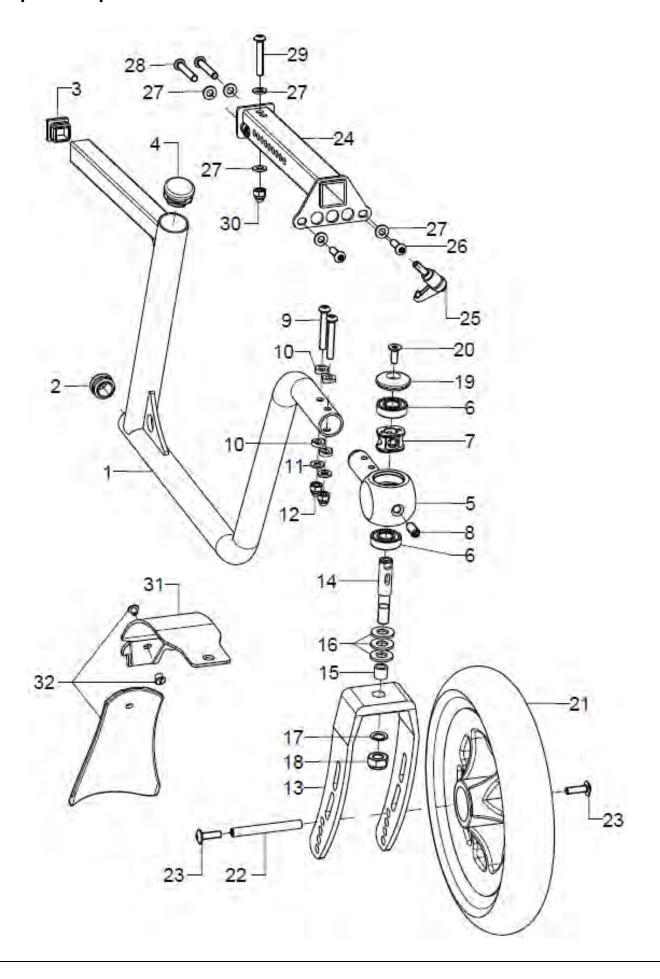
Remove the nut and washer from the caster fork. Use the splash guard instead of the washer. Then retighten the screw fittings firmly.







2. Replacement parts list Mio Move from 2017





Item	M/1	Drawing No.	Type No.	Item designation	Variant
1 - 32	1	59.95.36.20.00.77	59953620	Outdoor front end for 20" wheel size cpl. (Mio Move)	
undisc losed	1	59.95.36.22.00.77	59953622	Outdoor front end for 22" wheel size cpl. (Mio Move)	
undisc losed	1	59.95.36.24.00.77	59953624	Outdoor front end for 24" wheel size cpl. (Mio Move)	
1-4	1	59.95.36.20.00.77	59953604	Front end tube bent, black for outdoor front end/OTV at 20" incl. plug and assembly material	
undisc losed	1	59.95.36.22.00.77	59953605	Front end tube bent, black for outdoor front end/OTV at 22" incl. plug and assembly material	
undisc losed	1	59.95.36.24.00.77	59953606	Front end tube bent, black for outdoor front end/OTV at 24" incl. plug and assembly material	
2	1	04.63.10.22.00.10		Plug with ribs for tube ø22x1-2, black	
3	1	04.63.11.20.00.10		Ribbed plugs 20x20	
4	1	04.63.10.28.00.10		Plug for tube 28x1-3; black	
5-12		59.95.36.03.99.77	59953603	Steering head bearing for outdoor front end/OTV with ball bearing and damper cpl.	
6	2	04.32.12.08.00.10	200011	Deep groove ball bearing Ø28/12x8 60001z	
7	1	28.05.01.04.00.00		Damper element	
8	1	04.14.50.80.21.20	285103	Pressure spring piece M8x19	
9	2	01.42.08.60.65.00		Pan-head screw with hexagon socket ISO 7380- M6x40	
10	4	35.04.16.01.00.10		Saddle washer aluminium 6	
11	2	02.61.06.41.41.20		Washer DIN 125 - A 6.4	
12	2	02.33.00.60.11.20		Cap nut with clamping part DIN 986 - M6 - 6	
13	1	28.44.01.01.00.00	2844	Caster fork 60x189, black for outdoor front end	
14-20	1		284499	Assembly set caster fork outdoor front end (Cover cap, Torx screw, sleeve, washers, nuts)	
15	1	04.31.10.14.01.01		DU bushing slotted, Ø10/12x10	
16	3(2)	02.61.10.51.81.20		Washer DIN 125 - A 10.5	2 pcs. for splash guard assembly
17	1	02.99.11.00.01.10		Securing washer S10 - FST vz	
18	1	02.32.10.00.01.20		Hexagon nut self-locking DIN 985 - M10	
19-20	1	28.21.07.02.00.10	282108	Cover cap aluminium ø 32, black (caster/outdoor front end) incl. assembly screw M6x16 Torx)	
20	1	01.66.08.52.92.20		Countersunk screw with Torx ISO 14581 - M6x16 vz, black	
21-23	1	04.52.43.10.00.10	2837	Caster ø250x50, 6 spokes for outdoor front end incl. pneumatic tyres black	
22	1	28.16.07.05.00.00		Caster sleeve 68X8XM6	
23	1	01.43.08.47.62.50		Pan-head screw ISO 7380-2 M6x20 black	
24-30	1	59.95.36.01.00.77	59953601	Square intake for outdoor front end/OTV, black 25x25mm incl. assembly material	
25	1	04.13.10.60.16.50		Clamp lever adjustable M6x16, black	
26	2	01.42.08.54.05.00		Pan-head screw with hexagon socket ISO 7380 - M6x20	
27	6	02.61.06.41.41.20		Washer DIN 125 - A 6.4	
28	2	01.42.08.60.65.00		Pan-head screw with hexagon socket ISO 7380 - M6x40	
29	1	01.42.08.59.65.00		Pan-head screw with hexagon socket ISO 7380 - M6x35	
30	1	02.33.00.60.11.20		Cap nut with clamping part DIN 986 - M6	
31-32	1		59952012	Plastic splash guard incl. holder	
31	1	59.95.20.11.01.00		Splash guard holder	
32	1	59.95.20.12.00.00	59952013	Plastic splash guard for outdoor front end	



Outdoor front end for wheelchair model Mio Design 2018



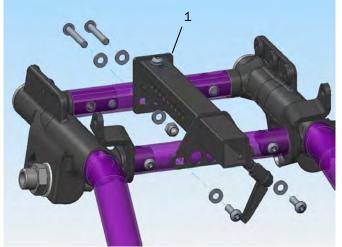
1 Assembly

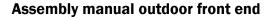
1.1 Mounting the intake on the wheelchair

The intake for 20" and 22" driving wheels is assembled over the crossbeams as shown. The intake for 24" driving wheels is assembled under the crossbeams.

Mount the intake (item 1) on the frame.







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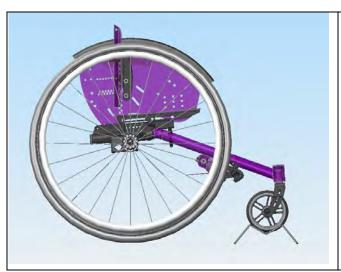


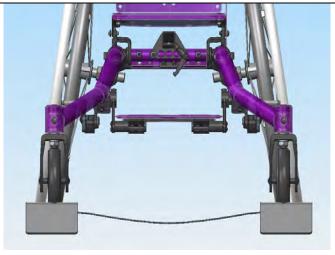
1.2 Jack up aid

Align the swivel casters of your wheelchair so that they point straight ahead.

Position the two jack up aids so that they are approximately in the middle of the swivel casters.

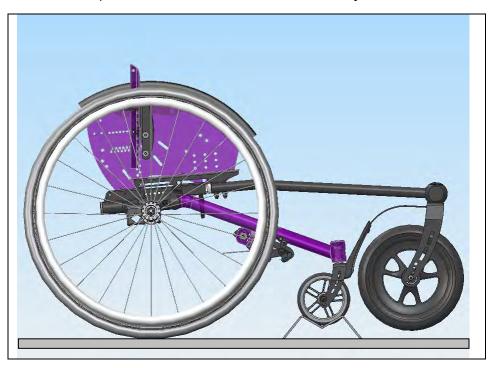
Then tie the cord so that it is loosely tensioned in this position between the two jack up aids. Apply the wheel lock.





1.3 Insert front end component

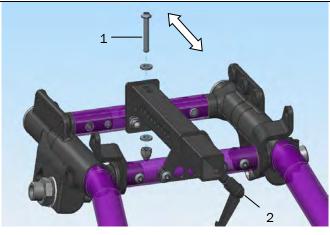
Now insert the front end component into the intake that has already been mounted.





You are now able to adjust the insertion depth of the front end component. The stop screw can be mounted in both the vertical and the horizontal bores. Tighten the clamp lever (item 2) firmly after mounting the front end component.





1.4 Splash guard (optional)

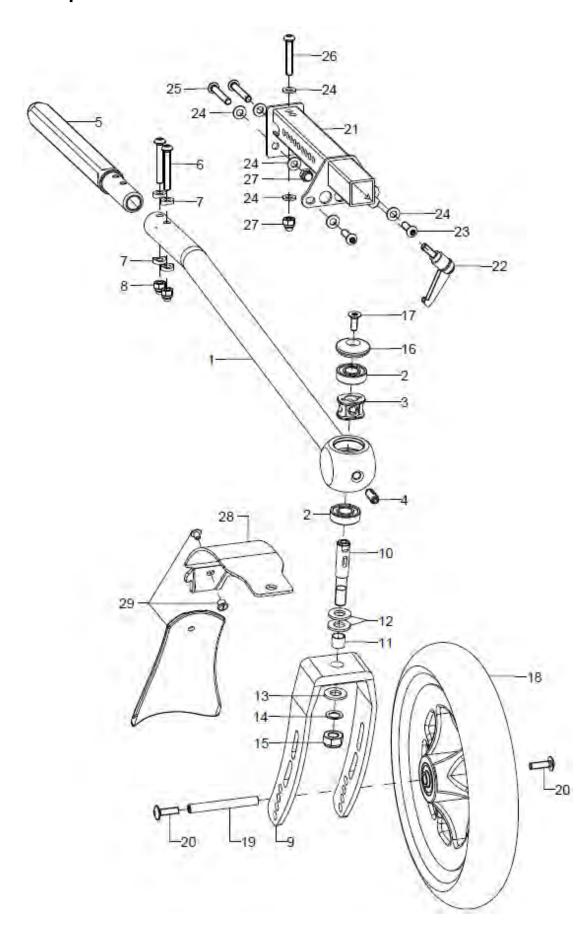
Remove the nut and washer from the caster fork. Use the splash guard instead of the washer. Then retighten the screw fittings firmly.







2. Replacement parts list Mio Design 2018





Item	M/1	Drawing No.	Type No.	Item designation	Variant
1 - 27	1		599536	Outdoor front end for Mio Design 2018	
1-4	1	59.95.36.18.00.78	59953618	Front end tube Mio Design 2018 incl. assembly material	
2	2	04.32.12.08.00.10	200011	Deep groove ball bearing Ø28/12x8 60001z	
3	1	28.05.01.04.00.00		Damper element	
4	1	04.14.50.80.21.20	285103	Pressure spring piece M8x19	
5-8	1	59.95.36.16.00.78	59953616	Mio-ODV adapter	
6	2	01.42.08.60.65.00		Pan-head screw with hexagon socket ISO 7380- M6x40	
7	4	35.04.16.01.00.10		Saddle washer aluminium 6	
8	2	02.33.00.60.11.20		Cap nut with clamping part DIN 986 - M6 - 6	
9	1	28.44.01.01.00.00	2844	Caster fork 60x189, black for outdoor front end	
10	1		285101	Steering axle 65 mm for track fixation	
11-17	1		284499	Assembly set caster fork outdoor front end (Cover cap, Torx screw, sleeve, washers, nuts)	
11	1	04.31.10.14.01.01		DU bushing slotted, Ø10/12x10	
12	2	02.61.10.51.81.20		Washer DIN 125 - A 10.5	
13	1	02.61.10.51.81.20		Washer DIN 125 - A 10.5	For assembly without splash guard
14	1	02.99.11.00.01.10		Securing washer S10 - FST vz	
15	1	02.32.10.00.01.20		Hexagon nut self-locking DIN 985 - M10	
16-17	1	28.21.07.02.00.10	282108	Cover cap aluminium ø 32, black (caster/outdoor front end) incl. assembly screw M6x16 Torx)	
17	1	01.66.08.52.92.20		Countersunk screw with Torx ISO 14581 - M6x16 vz, black	
18-20	1	04.52.43.10.00.10	2837	Caster ø250x50, 6 spokes for outdoor front end incl. pneumatic tyres black	
19	1	28.16.07.05.00.00		Caster sleeve 68X8XM6	
20	2	01.43.08.47.62.50		Pan-head screw ISO 7380-2 M6x20 black	
21-27	1	59.95.36.15.00.78	59953615	Mio-ODV intake welded	
22	1	04.13.10.60.16.50		Clamp lever adjustable M6x16, black	
23	2	01.42.08.54.05.00		Pan-head screw with hexagon socket ISO 7380 - M6x20	
24	8	02.61.06.41.41.20		Washer DIN 125 - A 6.4	
25	2	01.42.08.60.65.00		Pan-head screw with hexagon socket ISO 7380 - M6x40	
26	1	01.42.08.59.65.00		Pan-head screw with hexagon socket ISO 7380 - M6x35	
27	3	02.33.00.60.11.20		Cap nut with clamping part DIN 986 - M6	
28-29	1		59952012	Plastic splash guard incl. holder	
28	1	59.95.20.11.01.00		Splash guard holder	
29	1	59.95.20.12.00.00	59952013	Plastic splash guard for outdoor front end	



Outdoor front end Airon



Attention, please note:

The outdoor front end is only permitted up to the maximum load of the wheelchair.

When attached to models from other manufacturers, the outdoor front end is suitable for a maximum load of 100 kg.



1. Assembly

1.1 Adapter



Mount the outdoor front end adapter to the frame as shown.



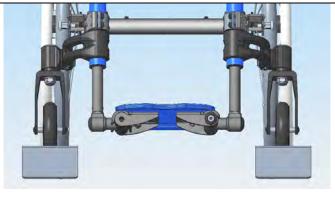
1.2 Jack up aid

Align the caster wheels of your wheelchair.

Position the two jack up aids so that they are approximately in the middle in front of the caster wheels.

Then tie the cord so that it is loosely tensioned in this position between the two jack up aids.







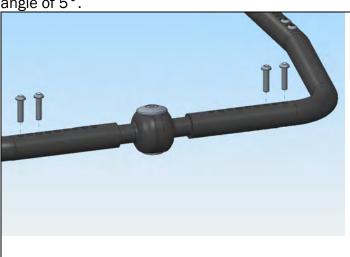
1.3.1 Outdoor front end (set width)

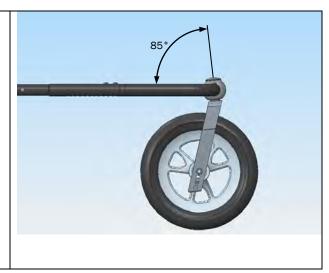
Outdoor stem (adjust width)

There are 5 sizes of the front compartment for this wheelchair model, named here as size 1, size 2, size 3, size 4 and size 5. You will automatically receive the right size for your wheelchair ex works. If necessary, the width of the front part must be adjusted to the width of your wheelchair. To do this, remove the screws on the front part of the front end and set the correct width. Retighten the screw connections (tightening torque 10Nm). The exact setting positions and the drillings to be used are described in chapter "3 Model overview" for all suitable wheelchair models.

To do this, remove the screw connection in the front part of the front end and set the correct width. Make sure that the telescopic steering head bearing including the caster wheel is installed at an

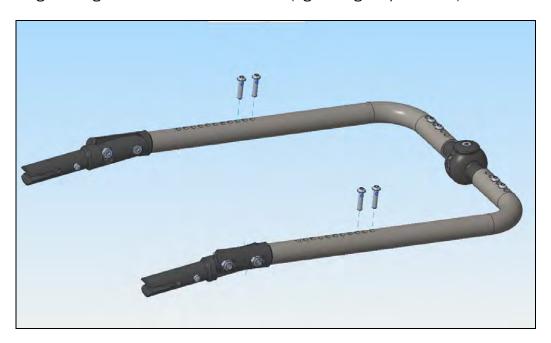






1.3.2 Outdoor front end (set length)

In addition, the outdoor front end is telescopic in length. You can adjust the front end tubes to your desired length. To do so, remove the screw connections on the front end tubes and set the correct length. Retighten the screw connections (tightening torque 10Nm).





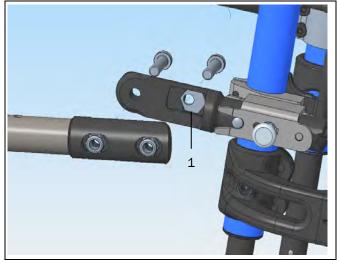
1.4 Height adjustment of the outdoor front end

Place the wheelchair on a level surface with the front end attached and the caster wheels on the jacking aid. The front end caster wheel should now have a distance of 20 to 25mm to the ground (X)...



The distance between the ground and the front end caster wheel can be adjusted in two ways.

- Relocation of the front end caster in the caster fork. Tighten the screw connection again after the adjustment (tightening torque 7Nm)
- By turning the hexagonal adjustment disk (item 1) on both sides (this changes the mounting angle of the outdoor adapter).





1.5 Splash guard (Optional)

Remove the nut and washer from the caster fork. Use the splash guard instead of the washer. Then

retighten the screw fittings firmly.





2. Procedure

Bring the anti-tipper into its functional position



Place the wheelchair with both caster wheels on the jacking aid.



Apply the wheelchair's parking brake. Lock the latch on the left and right in the open position





Evenly insert the front end on the left and right into the adapters as far as it will go.



Engage the latch, left and right



Please check that the construction is securely positioned in the holder and that it is locked into place correctly.

Release the parking brake and lower the wheelchair from the jacking device.



3. Model overview / size chart for assembly without hemi adapter

Model SW	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54
Jump alpha abdu	sz. 1 3	sz. 2 1	sz. 2 2	sz. 2 3	sz. 2 4	sz. 4 1	sz. 4 2	sz. 4 3								
Jump alpha gerade			sz. 1 2	sz. 1 3	sz. 2 1	sz. 2 2	sz. 2 3	sz. 2 4								
Jump beta abdu				sz. 2 3	sz. 2 4	sz. 4 1	sz. 4 2	sz. 4 3	sz. 4 4	sz. 4 5	sz. 4 6	sz. 4 7	sz. 4 8	sz. 5 4		
Jump beta gerade				sz. 1 3	sz. 2 1	sz. 2 2	sz. 2 3	sz. 2 4	sz. 4 1	sz. 4 2	sz. 4 3	sz. 4 4	sz. 4 5	sz. 4 6		
Vector abdu / Dynamis MV		sz. 2 1	sz. 2 2	sz. 2 3	sz. 3 4	sz. 4 1	sz. 4 2	sz. 4 3	sz. 4 4	sz. 4 5	sz. 4 6	sz. 5 2				
Vector gerade			sz. 1 2	sz. 1 3	sz. 2 1	sz. 2 2	sz. 2 3	sz. 3 4	sz. 4 1	sz. 4 2	sz. 4 3	sz. 4 4				
Tilty Vario			sz. 4 2	sz. 4 2	sz. 4 3	sz. 4 4	sz. 4 5	sz. 4 6	sz. 5 2	sz. 5 3	sz. 5 4					
Loop				sz. 4 1		sz. 4 3		sz. 4 5		sz. 5 2		sz. 5 4		sz. 5 6		
Loop RS Dynamis TSD				sz. 4 1	sz. 4 2	sz. 4 3	sz. 4 4	sz. 4 5	sz. 4 6	sz. 5 2	sz. 5 3	sz. 5 4	sz. 5 5	sz. 5 6		
Airon abdu			sz. 2 2	sz. 2 3	sz. 2 4	sz. 4 1	sz. 4 2	sz. 4 3	sz. 4 4	sz. 4 5	sz. 4 6	sz. 5 2	sz. 5 3	sz. 5 4		
Airon gerade			sz. 1 2	sz. 1 3	sz. 2 1	sz. 2 2	sz. 2 3	sz. 2 4	sz. 4 1	sz. 4 2	sz. 4 3	sz. 4 4	sz. 4 5	sz. 4 6		
Airon gekröpft					sz. 1 1	sz. 1 2	sz. 1 3	sz. 2 1	sz. 2 2	sz. 2 3	sz. 2 4	sz. 4 1	sz. 4 2	sz. 4 3		

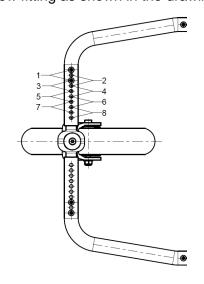
Legend:

- sz. 1 Front end tube small, size 1 (together with telescopic steering head bearing 205)
- sz. 2 Front end tube medium, size 2 (together with telescopic steering head bearing 205)
- sz. 3 Front end tube large, size 3 (together with telescopic steering head bearing 205)
- sz. 4 Front end tube large, size 3 (together with telescopic steering head bearing 285)
- sz. 5 Front end tube XL, size 4 (together with telescopic steering head bearing 285)

Green (without stripes): 4cm growable Yellow (horizontally striped 2cm growable

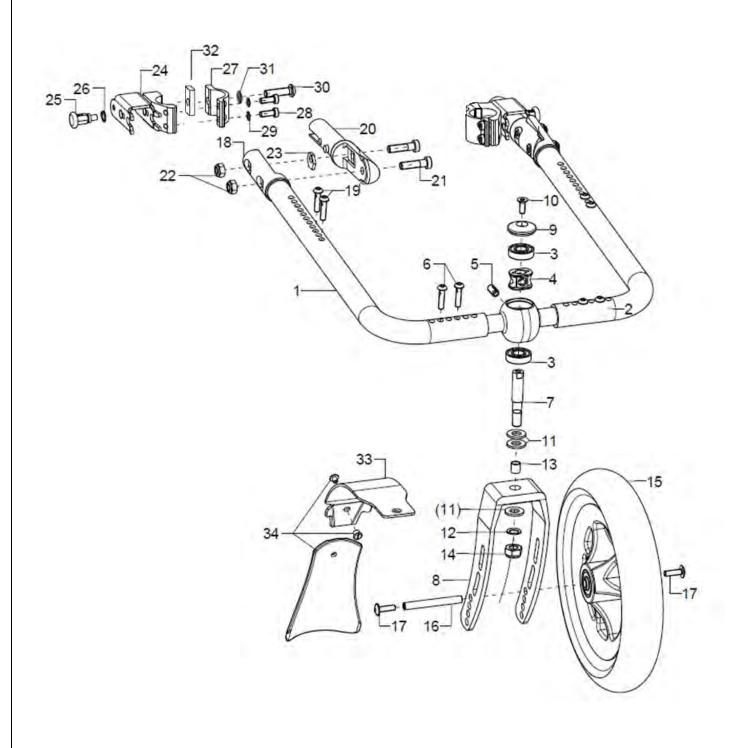
Orange (diagonally striped) wheelchair not growable or growable via side guards

1-8: screw fitting as shown in the drawing below.





4. Spare parts list





1-34	Item.	M/1	DrawingNo.	TypeNo.	Item description	Version
1-34 1	1 - 3/1	1	-	59953701		
1						
1						staight, tapered v-form)
1	1 - 34	1			sz.3+285 mm telescopic unit)	staight, tapered v-form)
1	1 - 34	1		59953705		staight, tapered v-form)
### Substitute 2 59.95.200.00.000 59952009 Front end tube \$2.2 for outdoor front end, telescopic SW, frome version (abducted, state) ### substitute 2 59.95.20.13.00.00 59952010 Front end tube \$2.4 for outdoor front end, telescopic SW, frome version (abducted, state) SP.	1	2	59.95.20.07.00.00	59952007	Front end tube sz.1 for outdoor front end, telescopic	gekröpft)
altern. 2 599-52-003-00.00 5995200 Front end tube \$2.5 for Outcolor front end, (telescopic September \$2.5 fo	altern.	2	59.95.20.08.00.00	59952008	Front end tube sz.2 for outdoor front end, telescopic	staight, tapered v-form)
### Sequence Sequenc	altern.	2	59.95.20.09.00.00	59952009	Front end tube sz.3 for outdoor front end, telescopic	staight, tapered v-form)
September 1 September	altern.	2	59.95.20.13.00.00	59952010	· · · · · · · · · · · · · · · · · · ·	staight, tapered v-form)
3	2 - 6	1	59.95.20.01.40.00	59952002	element, pressure spring piece and assembly screws	
3	altern.	1	59.95.20.02.40.00	59952003		
5 1 0.41.45.08.02.1.20 285103 Pressure spring place M8x19 6 4 0.1.43.08.56.65.01 Pan-head screw with hexagon socket. ISO 7380, M6x25, Tuffock 7 1 28.50.00.30.01.0 28141 Steering axle 65 mm for track fixation 8 1 28.44.01.01.00.00 28444 Caster fork 60x189, black for outdoor front end 9.14 1 284499 Assembly sel caster fork outdoor front end 9.10 1 28.21.07.02.00.10 282108 Assembly sel caster fork outdoor front end (cover cap, Torax screw, sleeve, washers, null) 10 1 Cover an application of the cover of cap, Individual		2		200011		
Fan-head screw with hexagon socket. ISO 7380, M6x25, Tuffock Fan-head screw with hexagon socket. ISO 7380, M6x25, Tuffock Steering axis 65 mm for track fixation Steering axis 65 mm for track fi						
0 4 0.1-4,30.5.06.03.0 Tuflook 7 1 2.8.5.00.03.00.01 285101 Steering axie 65 mm for track fixation 8 1 2.8.44.01.01.00.00 2844 Caster fork 60.198, black for outdoor front end 9 - 14 1 28.44.99 Assembly set caster fork fourtdoor front end (cover cap, 100.25 screw, sleeve, washers, null) 9 - 10 1 28.21.07.02.00.10 282108 Cover cap aluminium e 32, black for outdoor front end incl. seasemby screw with Torx ISO 14581 – M6x16 vz. black 11 3(2) Washer DIN 125 - A 10.5 2 pcs. For splash guard assembly 12 1 Securing washer S10 - FST vz 13 1 0.4.31.10.14.01.01 Beach Securing washer S10 - FST vz 14 1 Hexagon nut self-locking low form DIN 985-M10 15-17 1 0.4.52.43.10.00.10 2837 Coster ex250x50, 6 spokes for outdoor front end incl. pneumatic types black 16 1 28.16.07.05.00.00 Caster wheel sleeve 68x8/M6 1 17 2 0.14.30.8.47.62.50 Lens flange screw ISO 7380-2 M6x20 black 18.23 1 59.95.37.06.00.	5	1	04.14.50.80.21.20	285103		
8	6	4	01.43.08.56.65.01		Tuflock	
9-14 1						
1	8	1	28.44.01.01.00.00	2844		
modi incl. assembly screw M6X16 Torx)	9 - 14	1		284499		
Countersunk screw with Tork ISO 14581 - M6x16 vz, black	9-10	1	28.21.07.02.00.10	282108		
11 3(2) Washer DIN 125 - A 10.5 2 pos. For splash guard assembly	10	1			Countersunk screw with Torx ISO 14581 - M6x16 vz,	
13	11	3(2)				
14						
15-17 1 04.52.43.10.00.10 2837 Caster ø250x50, 6 spokes for outdoor front end incl. pneumatic tyres black 16 1 28.16.07.05.00.00 Caster wheel sleeve 68x8xM6 17 2 01.43.08.47.62.50 Lens flange screw ISO 7380·2 M6x20 black 18-23 1 59953706 Telescopic angle adjustment cpl. to the right. 18-23 1 5995370.60.0.83 telescopic angle adjustment cpl. to the left. 18 2 59.95.37.06.00.83 telescope adapter 19 2 01.43.08.56.65.01 pan head screw with hexagon socket ISO 7380, M6x25, Tuflok 20 1 599.53.70.50.01.83 Telescope adapter - slot on the left 0.B. 1 599.53.70.50.2.83 Telescope adapter - slot on the rechts 21 2 Cylinder head screw DIN 7984 M8x30 22 2 02.32.00.80.01.20 Hex nut self-locking low form DIN 985-M8 23 2 599.53.70.20.283 59953712 Adapter for 90° frame, right incl. clamp and latch frame 90° 0.B. 1 599.53.70.10.2.83 59953714 Adapter for 100° frame, right incl. clamp a			04.31.10.14.01.01			
1	14	1			0	
16 1 28.16.07.05.00.00 Caster wheel sleeve 68x8xM6 17 2 01.43.08.47.62.50 Lens flange screw ISO 7380.2 M6x20 black 18-23 1 59953706 Telescopic angle adjustment cpl. to the right. 18-23 1 59953707 Telescopic angle adjustment cpl. to the left. 18 2 59.95.37.06.00.83 telescope adapter 19 2 01.43.08.56.65.01 pan head screw with hexagon socket ISO 7380, M6x25, Tuflok 20 1 59.95.37.05.01.83 Telescope adapter - slot on the left 20 1 59.95.37.05.02.83 Telescope adapter - slot on the rechts 21 2 Cylinder head screw DIN 7984 M8x30 22 2 02.32.00.80.01.20 Hex nut self-locking low form DIN 985-M8 23 2 59.95.01.06.00.10 Adjusting disc 6-sided 24-32 1 59.95.37.02.02.83 59953712 Adapter for 90° frame, right incl. clamp and latch frame 90° altern. 1 59.95.37.01.02.83 59953714 Adapter for 100° frame, right incl. clamp and latch frame 100°	15-17	1	04.52.43.10.00.10	2837		
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19	18	2	59.95.37.06.00.83			
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