

Track Wheel

Service Manual (EN)



Track Wheel C2/A2
(Double Arms Clamping, Carbon Fiber/Alu)



Track Wheel C1/A1
(Single Arm Clamping, Carbon Fiber/Alu)



more than mobility

Attention: This manual is to be used in conjunction with “Track Wheel User Manual” and does not exclude maintenance and service information contained therein.

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1. Maintenance Parts and Schedule

Parts name	Control type	Control frequency
	Device	
Brake Levers	Brake levers may stretch over time. These can be adjusted or changed by loosening the lock nut and turning the adjuster next to the brake lever housing. Retighten after adjusting or changing.	As indicated through use.
Clamping Mechanism to Chair Frame	Check adjustments if slipping or excessive markings on the tube are noticed or manual clamping becomes harder or easier than when first delivered.	As indicated.
Clamping Mechanism to Device Frame	Check the tension and adjust to ensure a firm grip on the Width Adjusting Arms for Double Arm Track Wheel.	As indicated, especially when changing to different chairs.
	Common to both Chair and Device	
Pneumatic Tyres	Tyre pressure (check manufacturers specifications), condition of tread and tyres. One should take care, to keep the pressure in all tyres on the same level. Harder tyres provide better maneuverability and easiness of driving but reduce comfort on bumpy surfaces.	At least once a week; see manufacturers "Specifications".
Spokes	Loose spokes can cause deformation of the rear wheels. Contact your dealer or local bicycle service to manage the problem of loose spokes.	If the problem occurs.

Figure 1.

No.	Name	Specification	Qty.
1	Open end wrench	13 mm	1 pc
2	Open end wrench	14 mm	1 pc
3	Open end wrench	21 mm	1 pc
4	Tyre Spoon	200 mm	2 pcs
5	Socket head wrench	1 mm to 10 mm	1 set
6	Feeler gauge	for brake adjustment	1 pc
7	Loctite 243	for reassembly	--/--
8	Heat gun	for loosening Loctite's fasteners	1 pc
9	Lubricant	Waterproofing gel or spray. Grease for high friction joints	--/--

Figure 2. Tool List Overview

Exploded Drawing: (Double Arms Clamping, Carbon Fiber)

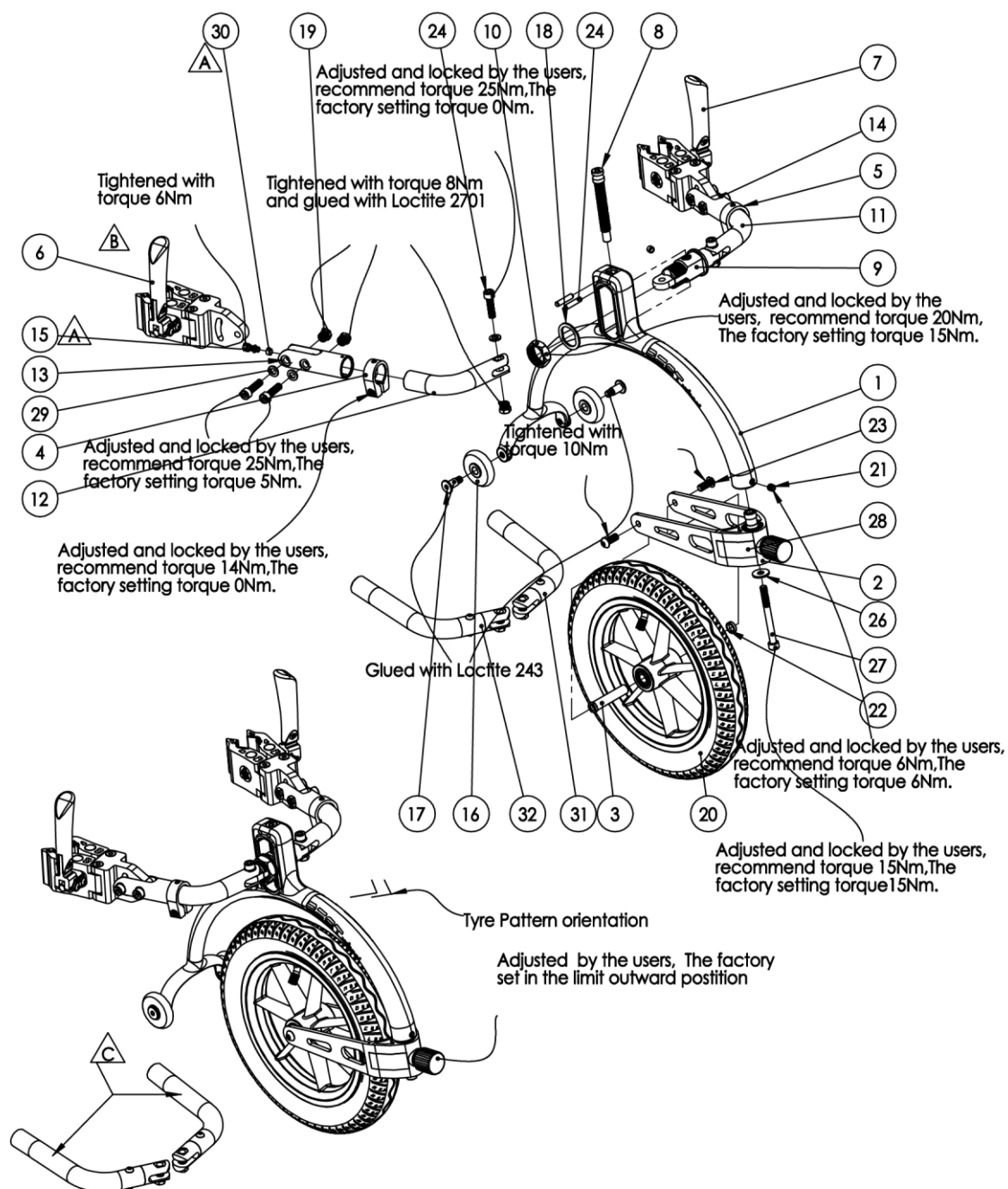


Figure 3. Exploded Drawing - Track Wheel C2

Part List: (Double Arms Clamping, Carbon Fiber)

INDEX	ITEM NO.	DESCRIPTION	QTY.	MATERIAL
1	EBX065	CF frame of double arms track wheel	1	Carbon fabric + Alu. insert
2	EBX004	Wheel fork assembly of track wheel, black	1	Alu. + Steel
3	EBX018	Wheel shaft	1	Steel
4	EBX033L	Locking rim assembly, left	1	See parts
5	EBX033R	Locking rim assembly, right	1	See parts
6	EBX035	Manual clamp of best wheel, left	1	See parts
7	EBX036	Manual clamp of best wheel, right	1	See parts
8	EBX038	Height adjusting pin	1	Stainless steel
9	EBX039	Center spinde	1	6061-T6 Alu.
10	EBX043	Locking nut	1	Stainless steel 2Cr13
11	EBX044L	Bent arm, left	1	6061-T6 Alu.
12	EBX044R	Bent arm, right	1	6061-T6 Alu.
13	EBX045L	Clamp arm, left	1	6061-T6 Alu.
14	EBX045R	Clamp arm, right	1	6061-T6 Alu.
15	19104L	Bolt DIN912-M6x16, silver	2	Steel
16	EBX049	Wheel of support leg	2	Black POM
17	EBX051	Wheel bolt	2	Stainless steel 2Cr13
18	EBX052	Speical washer	1	Stainless steel
19	EBX062L	Insert nut, M8	6	Stainless steel 2Cr13
20	16120K	12" wheel with pneumatic tyre with 45° valve and silver plastic rim	1	Plastic + Rubber
21	19124D	Bolt DIN913-M8x8, black	1	Steel
22	1925BH	Distance bushing	1	Steel
23	19422R	Bolt ISO7380-M8x20, black	2	Steel
24	1910RL	Bolt DIN912-M8x30, 10.9G, black	6	Steel
25	1910RX	Parallel pin, ISO 8734-6x28	2	Stainless steel
26	192508	Flat washer, OD20xD8.2xT2.0	1	Steel
27	1910XZ	Bolt, DIN912-M8x90, thread length 30mm, black	1	Steel
28	5410RV	Technical data label	1	Film
29	19256U	Flat washer D15xd8.2xT1.5, black	6	Steel
30	1925CL	Bushing, D8xd6x4.5	2	Stainless Steel
31	EBX07L	Bent arm with nut	1	See parts
32	EBX07R	Bent arm with nut	1	See parts

Figure 4. Part List - Track Wheel C2

Exploded Drawing: (Double Arms Clamping, Alu)

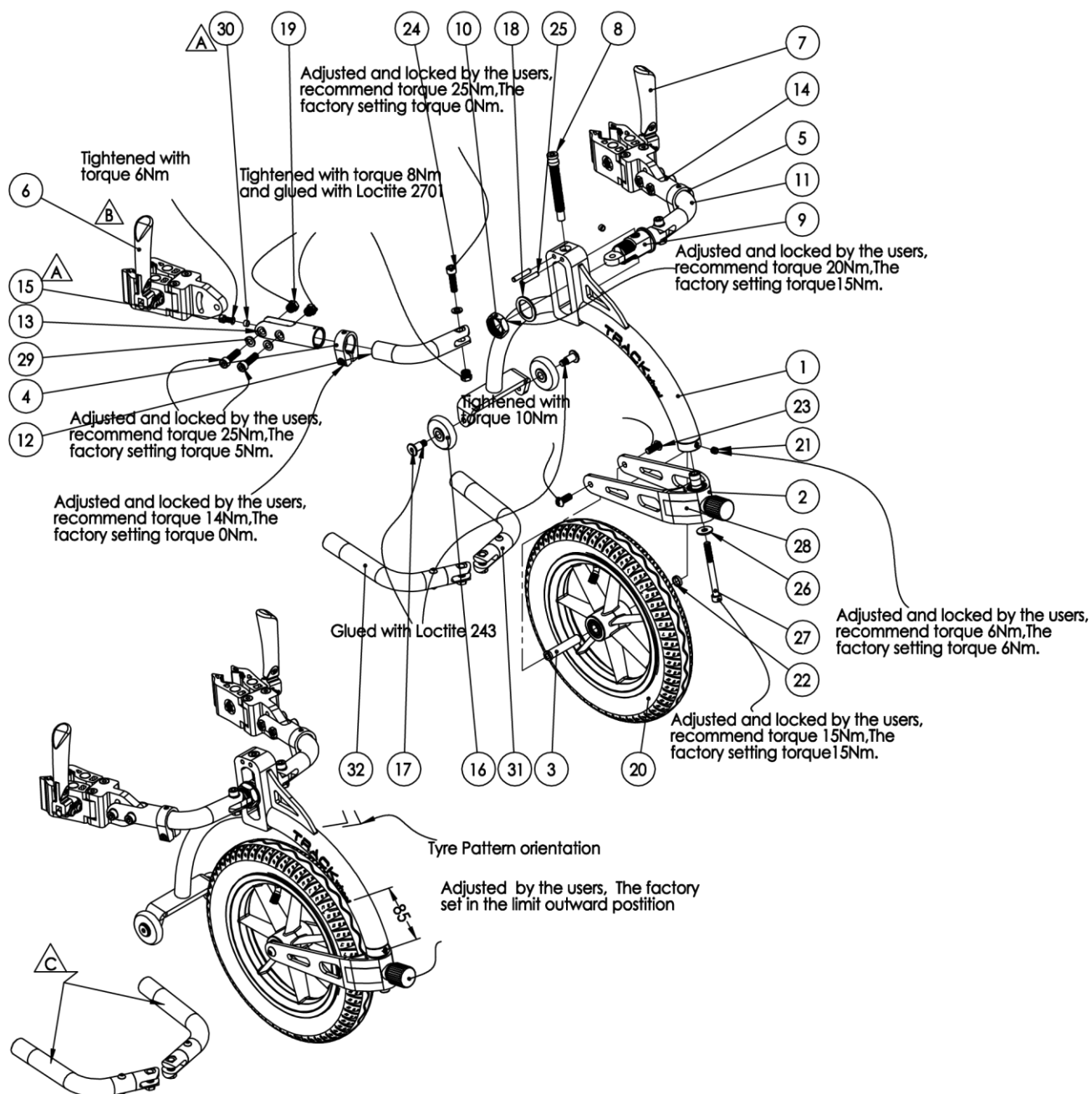


Figure 5. Exploded Drawing - Track Wheel A2

Part List: (Double Arms Clamping, Alu)

INDEX	ITEM NO.	DESCRIPTION	QTY.	MATERIAL
1	EBX030	Frame weldment of track wheel with double arms	1	6061-T6 Alu.
2	EBX004	Wheel fork assembly of track wheel, black	1	Alu. + Steel
3	EBX018	Wheel shaft	1	Steel
4	EBX033L	Locking rim assembly, left	1	See parts
5	EBX033R	Locking rim assembly, right	1	See parts
6	EBX035	Manual clamp of best wheel, left	1	See parts
7	EBX036	Manual clamp of best wheel, right	1	See parts
8	EBX038	Height adjusting pin	1	Stainless steel
9	EBX039	Center spindel	1	6061-T6 Alu.
10	EBX043	Locking nut	1	Stainless steel 2Cr13
11	EBX044L	Bent arm, left	1	6061-T6 Alu.
12	EBX044R	Bent arm, right	1	6061-T6 Alu.
13	EBX045L	Clamp arm, left	1	6061-T6 Alu.
14	EBX045R	Clamp arm, right	1	6061-T6 Alu.
15	19104L	Bolt DIN912-M6x16, silver	2	Steel
16	EBX049	Wheel of support leg	2	Black POM
17	EBX051	Wheel bolt	2	Stainless steel 2Cr13
18	EBX052	Speical washer	1	Stainless steel
19	EBX062L	Insert nut, M8	6	Stainless steel 2Cr13
20	16120K	12" wheel with pneumatic tyre with 45° valve and silver plastic rim	1	Plastic + Rubber
21	19124D	Bolt DIN913-M8x8, black	1	Steel
22	1925BH	Distance bushing	1	Steel
23	19422R	Bolt ISO7380-M8x20, black	2	Steel
24	1910RL	Bolt DIN912-M8x30, 10.9G, black	6	Steel
25	1910RR	Parallel pin, ISO 8734-6x32	2	Stainless steel
26	192508	Flat washer, OD20xD8.2xT2.0	1	Steel
27	1910XZ	Bolt, DIN912-M8x90, thread length 30mm, black	1	Steel
28	5410RV	Technical data label	1	Film
29	19256U	Flat washer D15xD8.2xT1.5, black	6	Steel
30	1925CL	Bushing, D8xD6x4.5	2	Stainless Steel
31	EBX07L	Bent arm with nut	1	See parts
32	EBX07R	Bent arm with nut	1	See parts

Figure 6. Part List - Track Wheel A2

Exploded Drawing: (Single Arms Clamping, Carbon Fiber)

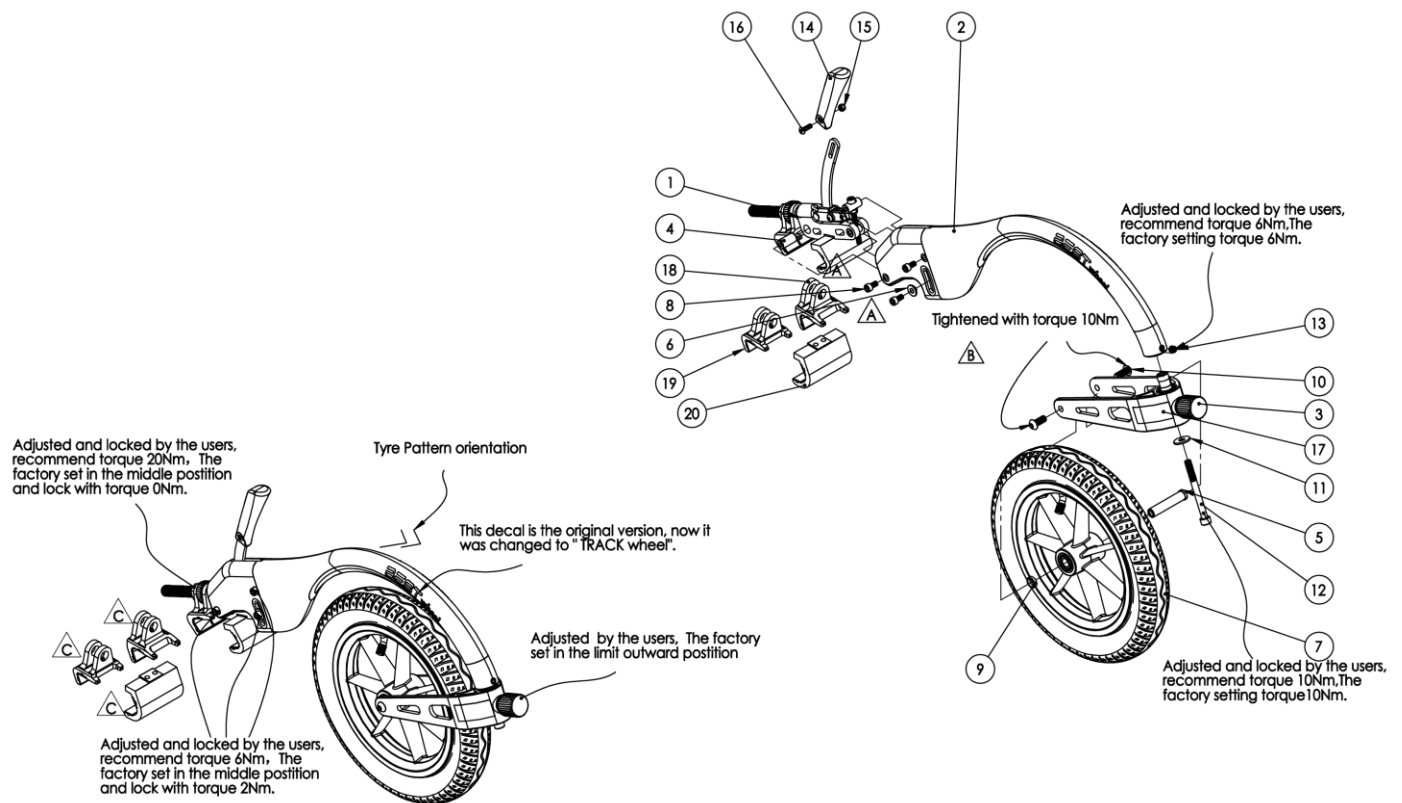


Figure 7. Exploded Drawing - Track Wheel C1

Part List: (Single Arms Clamping, Carbon Fiber)

INDEX	ITEM NO.	DESCRIPTION	Qty.	MATERIAL
1	EBX00B	One arm clamp for Track wheel	1	Steel + Alu.
2	EBX003	Frame of track wheel, CF, 3K shiny	1	Carbon fabric + Alu. insert
3	EBX004	Wheel fork assembly of track wheel, black	1	Alu. + Steel
4	EBX016	Pivot shaft, $\varnothing 12 \times 25$	1	Steel
5	EBX018	Wheel shaft	1	Steel
6	EBX026	T-bushing	2	Stainless steel
7	16120K	12" wheel with pneumatic tyre with 45° valve and silver plastic rim	1	Plastic + Rubber
8	1910RA	Bolt DIN912-M6x12, 10.9G, black	6	Steel
9	1925BH	Distance bushing	1	Steel
10	19422R	Bolt ISO7380-M8x20, black	2	Steel
11	192508	Flat washer, OD20xID8.2xT2.0	1	Steel
12	1910XZ	Bolt, DIN912-M8x90, thread length 30mm, black	1	Steel
13	19124D	Bolt DIN913-M8x8, black	1	Steel
14	673218	Extension lever, left side	1	Black PA6+GF30
15	192018	Lock nut DIN985-M5, black	1	Steel
16	1910CP	Bolt ISO7380-M5x16, black	1	Steel
17	5410RV	Technical data label	1	Film
18	EBX01B	Rear claw with plastic pads	1	See parts
19	EBX01C	Rear claw with plastic pads	1	See parts
20	EBX02B	Front claw with plastic pads	1	See parts

Figure 8. Part List - Track Wheel C1

Exploded Drawing: (Single Arms Clamping, Alu)

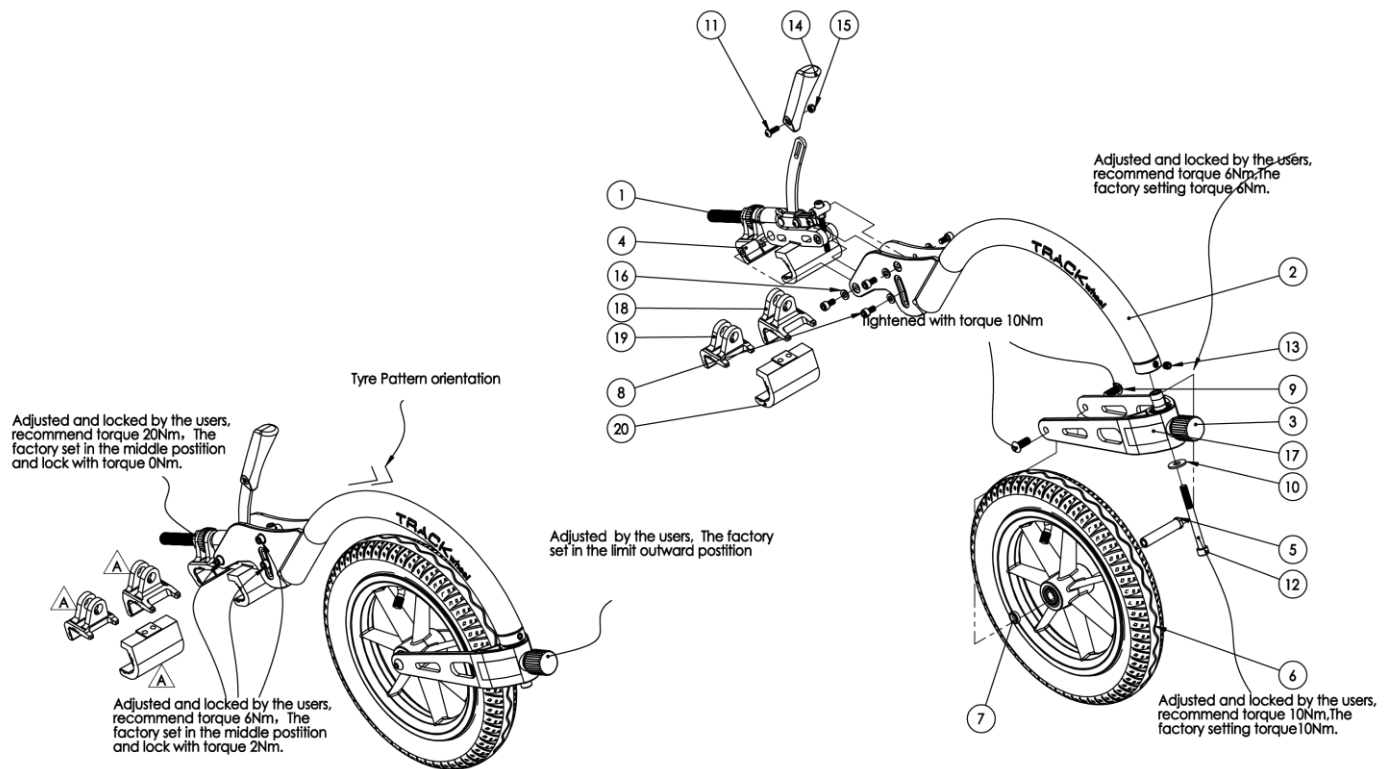


Figure 9. Exploded Drawing - Track Wheel A1

Part List: (Single Arms Clamping, Alu)

INDEX	ITEM NO.	DESCRIPTION	QTY.	MATERIAL
1	EBX00B	One arm clamp for Track wheel	1	Steel + Alu.
2	EBX002	Frame weldment of track wheel	1	Alu. 6061-T6
3	EBX004	Wheel fork assembly of track wheel, black	1	Alu. + Steel
4	EBX016	Pivot shaft, Ø12x25	1	Steel
5	EBX018	Wheel shaft	1	Steel
6	16120K	12" wheel with pneumatic tyre with 45° valve and silver plastic rim	1	Plastic + Rubber
7	1925BH	Distance bushing	1	Steel
8	1910RA	Bolt DIN912-M6x12, 10.9G, black	6	Steel
9	19422R	Bolt ISO7380-M8x20, black	2	Steel
10	192508	Flat washer, OD20xID8.2xT2.0	1	Steel
11	1910CP	Bolt ISO7380-M5x16, black	1	Steel
12	1910XZ	Bolt, DIN912-M8x90, thread length 30mm, black	1	Steel
13	19124D	Bolt DIN913-M8x8, black	1	Steel
14	673218	Extension lever, left side	1	Black PA6+GF30
15	192018	Lock nut DIN985-M5, black	1	Steel
16	194034	Flat washer DIN125-A6.4, D6.4xD12x1.6, black	6	Steel
17	5410RV	Technical data label	1	Film
18	EBX01B	Rear claw with plastic pads	1	See parts
19	EBX01C	Rear claw with plastic pads	1	See parts
20	EBX02B	Front claw with plastic pads	1	See parts

Figure 10. Part List - Track Wheel A1

2. Drive Wheels

2.1. Tyres and Tubes

- **Repair / Exchange**

For both the single and double arm versions.

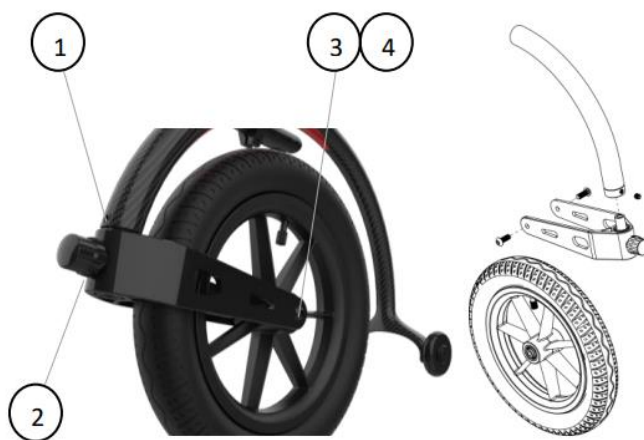


Figure 11. Drive Wheels

Loosen the bolt (1).

Loosen the bolt (2) to make the fork and wheel assembly detached from the frame.

Loosen the bolt (3) and (4).

Take off the fork from wheel.

Change to the new wheel, tighten the bolt (3) and (4), recommended torque is 8 Nm.

- **Annual checking and maintenance**

Check tread depth, and air pressure!

- **Attention!!!**

Change tire when tread depth <0.5mm!

3. Clamping Mechanisms

3.1 Single Arm Clamping

- **Repair /Exchange**

Any repair is not suggested, please change to new part if any problem.

- **Annual checking and maintenance**

Take out the Lock Nut (a) and rotate the Adjusting Ring (b) to take out the rear clamping claw. Assemble the Adjusting Ring (b) with new rear clamping claw into toggle mechanism then tighten the Lock Nut (a) with recommended torque at 20 Nm.

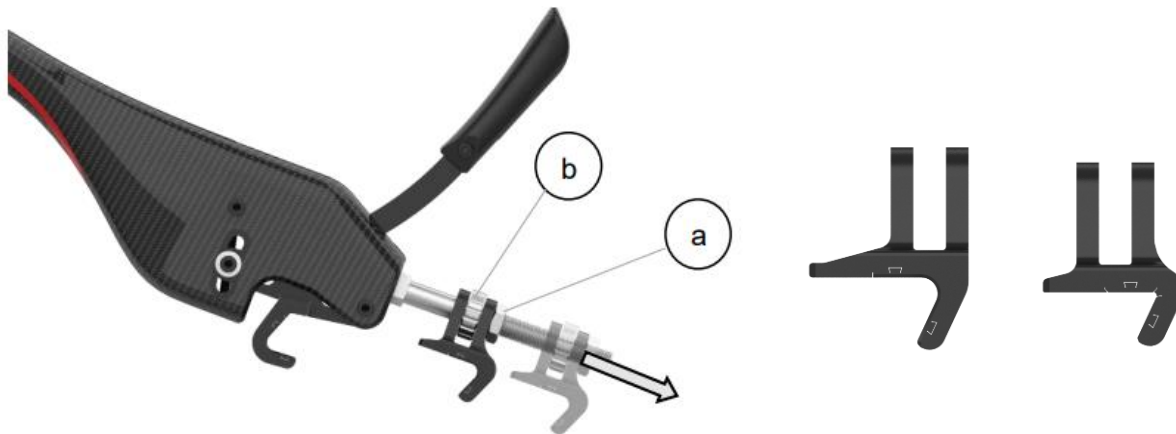


Figure 12. Single Arm Rear Clamping Mechanism

Turn the downside to up position. Loosen the Lock Bolt (g), replace with new front clamping claw and tighten it.

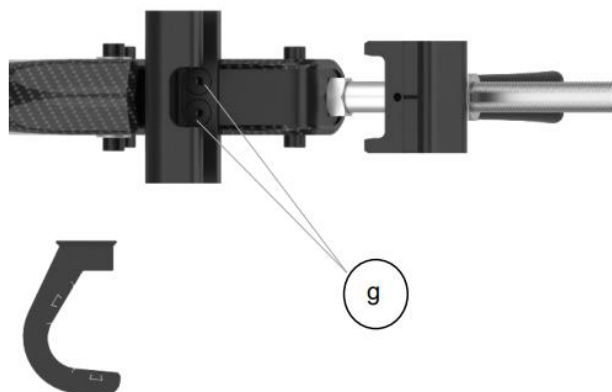


Figure 13. Single Arm Front Clamping Mechanism

Clamping Claw Matrix - Single Arm Track Wheel

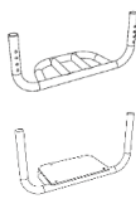
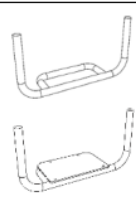
Clamping Claws Options				Wheelchair Footrest			Few Examples of Suitable Wheelchairs	
Rear	Item Number	Front	Item Number	Footrest Type	Footrest Tube Diameter	Depth Range - mm	Model Name	Examples of footrests
	EBX01A (Default)		EBX02A (Default)	Round Tube	φ 15 - 25 mm	ø15 tube: 108 - 168 ø19 tube: 105 - 165 ø25 tube: 102 - 162	Rehasense: ICON 60s; Wolturus: W5/WSSL/TUKAN/HAWK; Sunrise Medical: Quickie Nitrum/Quickie Krypton R/Quickie Argon; Invacare: K-Series/Kuschall KSL; Ki mobility: Ethos/Rogue XP/Rogue/Tsunami; Permobil: Ti Lite/Progreo;	
			EBX02B (Additional)		φ 25 - 32 mm	ø25 tube: 102 - 162 ø28 tube: 99 - 159 ø32 tube: 96 - 156		
	EBX01B (Additional)		EBX02A (Default)		φ 15 - 25 mm	ø15 tube: 95 - 155 ø19 tube: 93 - 153 ø25 tube: 90 - 150	Invacare: K-Series (old style with round tube)/K-Series attract (old style with round tube)/XLT (old style with round tube); RGK: Sub 4;	
			EBX02B (Additional)		φ 25 - 32 mm	ø25 tube: 90 - 150 ø28 tube: 87 - 147 ø32 tube: 85 - 145		
	EBX01C (Additional)		EBX02A (Default)	Plate	Footrest plate holder diameter range: ≤25	ø22 Holder: 107 - 167 ø25 Holder: 103 - 163	Permobil: Ti Lite; Sunrise Medical: Quickie Nitrum/Quickie Krypton R/Quickie Argon/Argon2/Helium/Platform; Ki mobility: Ethos/Rogue XP/Rogue/Tsunami;	
			EBX02B (Additional)		Footrest plate holder diameter range: 25 - 32	ø25 Holder: 103 - 163 ø32 Holder: 100 - 160		

Figure 14. Single Arm Clamping Claw Matrix

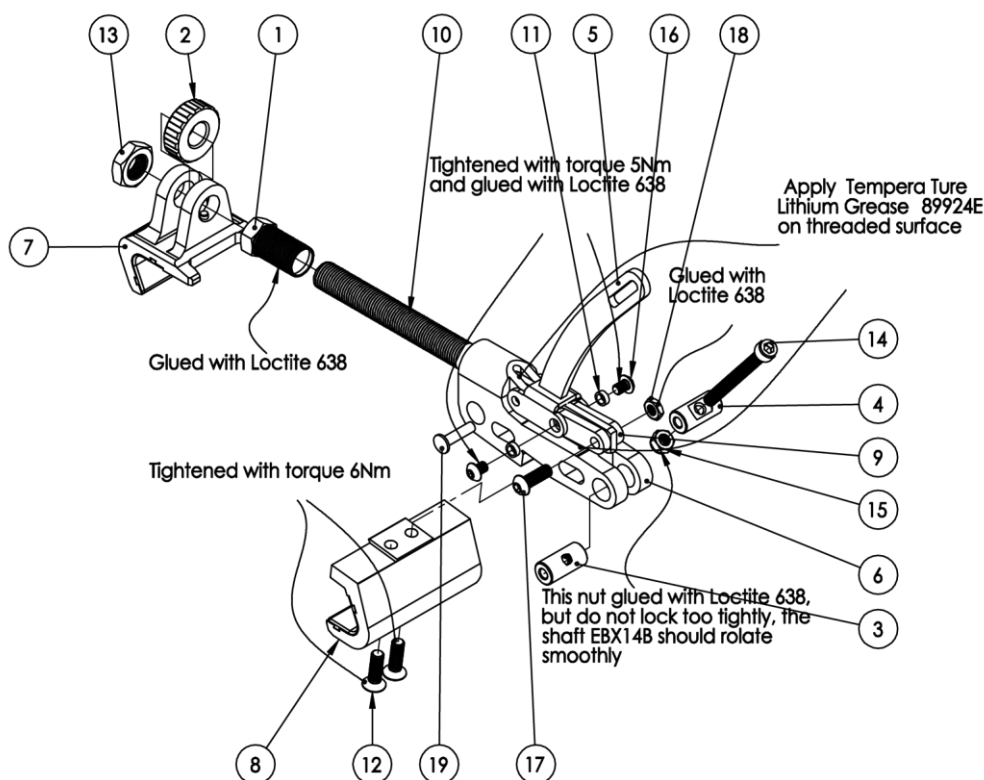


Figure 15. Exploded Drawing for Single Arm Clamping Claw

INDEX	ITEM NO.	DESCRIPTION	Qty.	MATERIAL
1	EBX009L	Toggle adapter	1	Stainless steel
2	EBX010	Adjusting nut	1	Alu. 6061-T6
3	EBX014A	Pivot shaft, $\varnothing 12 \times 25$, with M6 threaded hole	1	Steel
4	EBX014B	Pivot shaft, $\varnothing 12 \times 25$, with $\varnothing 6.2$ hole	1	Steel
5	EBX080	Toggle lever weldment	1	Steel
6	EBX083	Main part of one arm clamp	1	6061-T6 Alu.
7	EBX01A	Rear claw with plastic pads	1	See parts
8	EBX02A	Front claw with plastic pads	1	See parts
9	EBX087	Toggle link	2	Steel
10	EBX088	Support rod of one arm clamp	1	Stainless steel
11	1925CM	Small bushing	2	Stainless steel
12	19200Y	Bolt DIN7991-M6x20, black	2	Steel
13	192065	Hex thin nut, DIN936 M14x1.5	1	Stainless steel
14	1910PZ	Bolt DIN912-M6x60, 10.9G, black	1	Steel
15	19106C	Lock nut, DIN985-M6, black	1	Steel + Nylon insert
16	1910S5	Bolt, ISO7380 - M5x7, grade 10.9	2	Steel
17	19102B	Bolt ISO7380-M6x18, black	1	Steel
18	394003	Hex. nut, DIN439-M6, silver	1	Steel
19	19206DS	Rivet GB/T872-1986-M5x20	1	Steel

Figure 16. Part List for Single Arm Clamping Claw

- **Repair /Exchange**

- **Annual checking and maintenance**



INDEX	ITEM NO.	DESCRIPTION	QTY.	MATERIAL
1	EBC001-A	Clamp pad, with 2- $\varnothing$ 3.2 holes	2	PA6+GF15
2	EBC011S	Pin for clamp toggle, D4x21	2	Steel
3	EBC022	Toggle link	2	304 Stainless steel
4	EBC042	T-Bushing D7xd5x3.3	4	3Cr13
5	EBD010	Flange bush for clamp	4	303 Stainless steel
6	EBD012	Bush, D13xd8x9	2	Stainless steel
7	EBX034	Manual clamp bracket	1	6061-T6 Alu.
8	EBX054	Toggle lever of manual clamp	1	6061-T6 Alu.
9	EBX056	Pivot pin of clamp splice	2	Stainless steel 2Cr13
10	EBX057A	Toggle pivot, excluding threaded holes	1	Stainless steel 2Cr13
11	EBX057B	Toggle pivot, including 2-M5 holes	1	Stainless steel 2Cr13
12	EBX058	Toggle adjusting pin	1	Stainless steel 2Cr13
13	EBX059	Toggle stop disc	1	Alu. 6061-T6
14	EBX061A	Clamp splice, left, outer side	1	6061-T6 Alu.
15	EBX061C	Clamp splice, inner side	1	6061-T6 Alu.
16	EBX067	Flat washer, D13.8xd5.2x1.5	2	Stainless steel SUS303
17	1910HK	Bolt ISO7380-M4x20, grade 8.8, black	2	Steel
18	19106B	Lock nut DIN985-M8, black	1	Steel + nylon inert
19	673217	Extension lever, right side	1	Black
20	192018	Lock nut DIN985-M5, black	1	Steel
21	1910CP	Bolt ISO7380-M5x16, black	1	Steel
22	1910Q1	Bolt, ISO7380 - M5x10, grade 10.9	6	Steel
23	64106E	Compression spring, $\varnothing$ 1.2x $\varnothing$ 12x33	1	GB 65Mn 钢
24	1910NH	Bolt DIN7991-M3x8, 10.9g, black	4	Steel

Figure 19. Part List for Left Manual Clamp

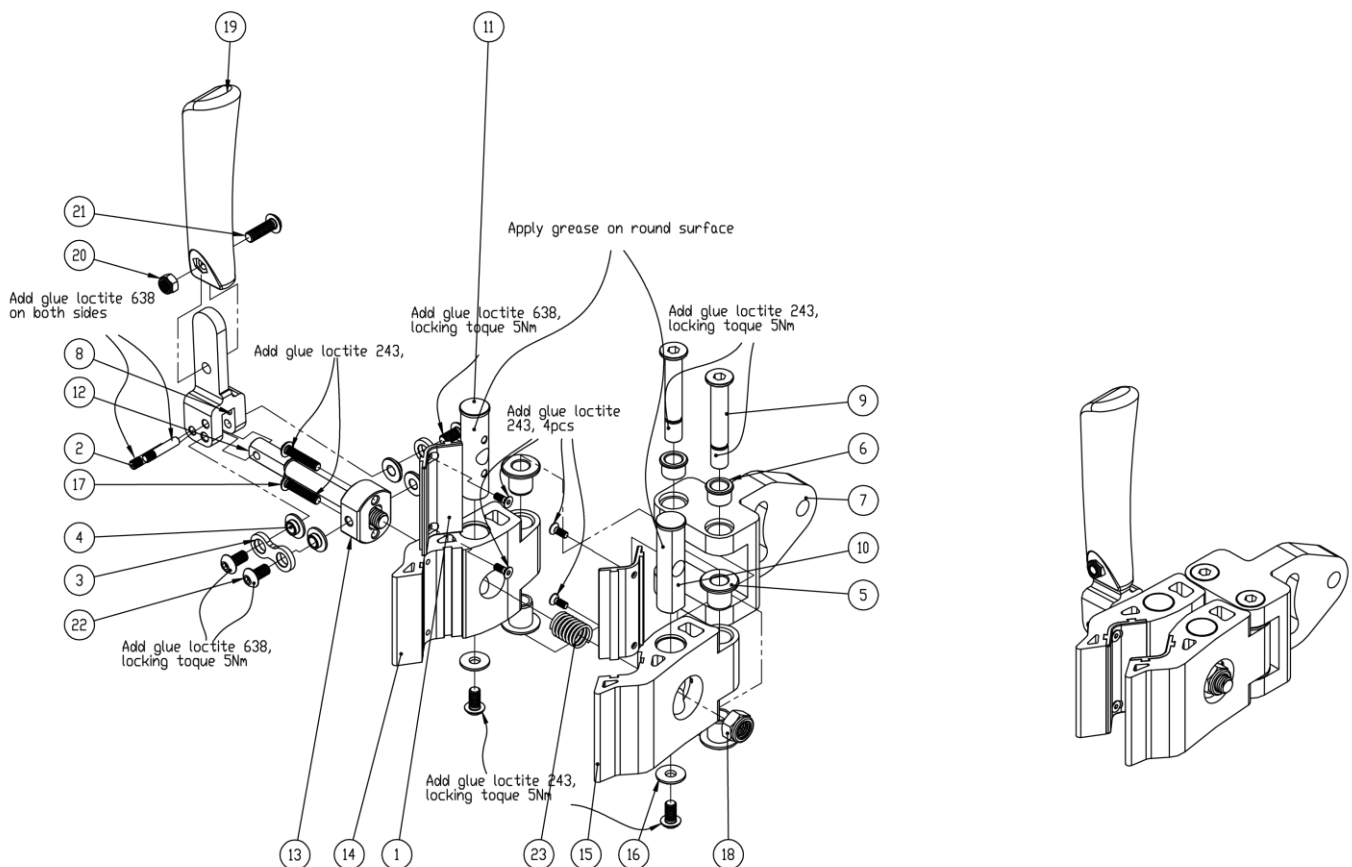


Figure 20. Exploded Drawing for Right Manual Clamp

INDEX	ITEM NO.	DESCRIPTION	QTY.	MATERIAL
1	EBC001-A	Clamp pad, with 2-ø3.2 holes	2	PA6+GF15
2	EBC011S	Pin for clamp toggle, D4x21	2	Steel
3	EBC022	Toggle link	2	304 Stainless steel
4	EBC042	T-Bushing D7xd5x3.3	4	3Cr13
5	EBD010	Flange bush for clamp	4	303 Stainless steel
6	EBD012	Bush, D13xd8x9	2	Stainless steel
7	EBX034	Manual clamp bracket	1	6061-T6 Alu.
8	EBX054	Toggle lever of manual clamp	1	6061-T6 Alu.
9	EBX056	Pivot pin of clamp splice	2	Stainless steel 2Cr13
10	EBX057A	Toggle pivot, excluding threaded holes	1	Stainless steel 2Cr13
11	EBX057B	Toggle pivot, including 2-M5 holes	1	Stainless steel 2Cr13
12	EBX058	Toggle adjusting pin	1	Stainless steel 2Cr13
13	EBX059	Toggle stop disc	1	Alu. 6061-T6
14	EBX060A	Clamp splice, right, outer side	1	6061-T6 Alu.
15	EBX061C	Clamp splice, inner side	1	6061-T6 Alu.
16	EBX067	Flat washer, D13.8xd5.2x1.5	2	Stainless steel SUS303
17	1910HK	Bolt ISO7380-M4x20, grade 8.8, black	2	Steel
18	19106B	Lock nut DIN985-M8, black	1	Steel + nylon inert
19	67321A	Extension lever, left side	1	Black PA6+GF30
20	192018	Lock nut DIN985-M5, black	1	Steel
21	1910CP	Bolt ISO7380-M5x16, black	1	Steel
22	1910Q1	Bolt, ISO7380 - M5x10, grade 10.9	6	Steel
23	64106E	Compression spring, ø1.2xø12x33	1	GB_65Mn 钢
24	1910NH	Bolt DIN7991-M3x8, 10.9g, black	4	Steel

Figure 21. Part List for Right Manual Clamp

4. Adjustment Arm Mechanisms

- **Repair /Exchange**

If some screws/nuts etc. fasteners get loose, repair and maintenance is applicable here, please refers to exploded picture below.

Take out the bolt (1) and (2). Take out two bolts (3) to release the Clamping Jaw, the pre-set torque for these two bolts is 5 Nm. This is an iterative process whereby the Clamping Jaw must be taken out to allow access to the bolt (4). Take out the bolt (4), the pre-set torque is 6 Nm. Replace the arm (h) with longer version and assemble it with Locking Rim (i) and Clamp Arm (j). Tighten the bolt (4) with torque at 6 Nm. Tighten the bolt (2) with torque at 14 Nm. Adjust the Clamping Jaw then tighten it with two bolts (3), recommended torque is 25 Nm. Adjust the longer arm and tighten it with bolt (1), recommended torque is 25 Nm. Do same as above for the other side.



Figure 22. Exploded Picture of Adjustment Arm Mechanisms

- **Annual checking and maintenance**

Check the screws/nuts etc. fasteners as mentioned above.

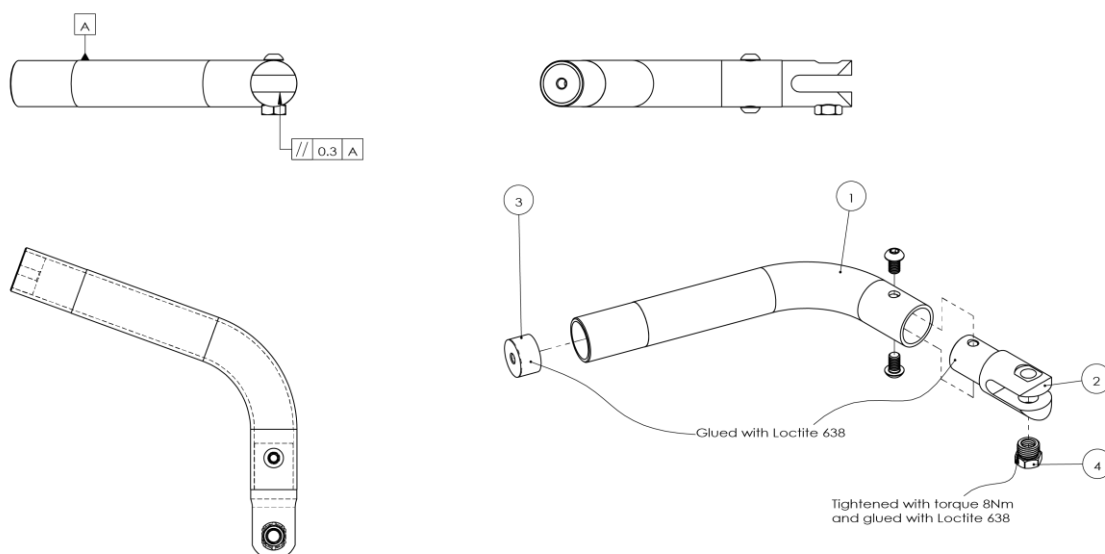


Figure 23. Exploded Drawing for Left Adjustment Arm Mechanism

INDEX	ITEM NO.	DESCRIPTION	Qty.	MATERIAL
1	EBX102	Bent tube	1	6061-T6 Alu.
2	EBX101	U clamp	1	6061-T6 Alu.
3	EBX099	Bushing with threaded hole	1	6061-T6 Alu.
4	EBX062L	Insert nut, M8	1	Stainless steel 2Cr13
5	1910MQ	Bolt ISO7380-M6x10, 10.9G, black	2	Steel

Figure 24. Part list for Left Adjustment Arm Mechanism

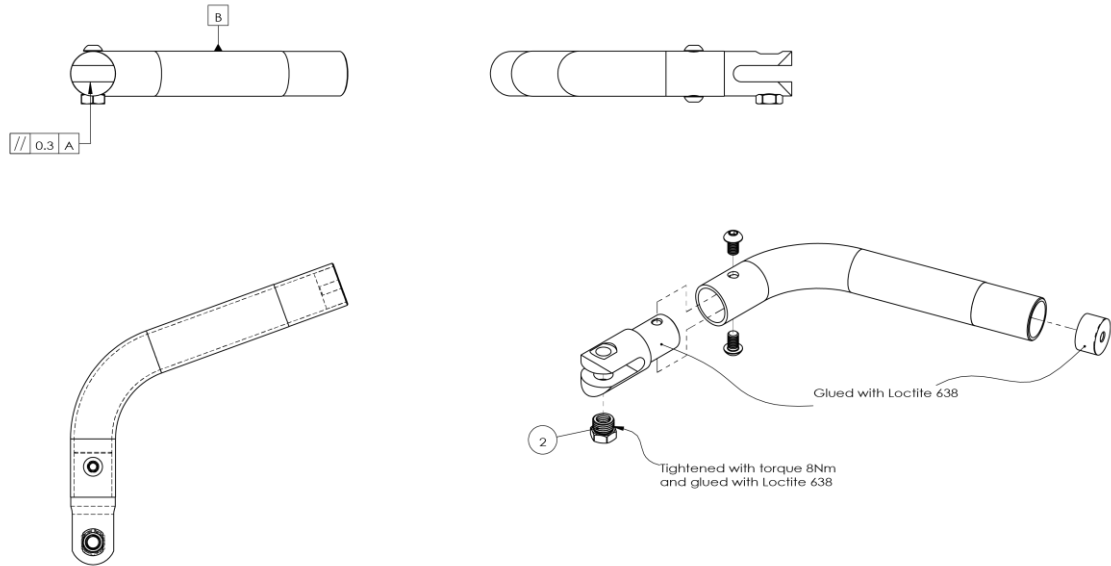


Figure 25. Exploded Drawing for Right Adjustment Arm Mechanism

INDEX	ITEM NO.	DESCRIPTION	Qty.	MATERIAL
1	EBX102	Bent tube	1	6061-T6 Alu.
2	EBX101	U clamp	1	6061-T6 Alu.
3	EBX099	Bushing with threaded hole	1	6061-T6 Alu.
4	EBX062L	Insert nut, M8	1	Stainless steel 2Cr13
5	1910MQ	Bolt ISO7380-M6x10, 10.9G, black	2	Steel

Figure 26. Part list for Right Adjustment Arm Mechanism

5. Accessories

Foot Plate and Heel Band, Frame Protector, Height Adaptor, Holder, Longer Arm etc.

It is suggested to change to new one if any problem.

6. FAQ's

N/A

Contact details of the distributor, manufacturer.

In case of any technical questions contact your local distributor or directly with The Manufacturer.

Distributor:



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SE-392 41 Kalmar | Sweden
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E: info@wihlbackamobility.se
W: wihlbackamobility.se

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