

Installation of the Rear Linking Klaxon® for foldable wheelchairs



Crossbeam Kit Assembly

Warnings



Note: The following steps apply to both the Twist ver. 2025 (comprehensive of the Frame for Rear Linking System KT-16-0001) and the Twist R ver. 2025.

	Installation of the Twist and Twist R rear linking system must always be carried out by a Klaxon® authorized technician
	When using the Twist and Twist R installed at the rear, it is mandatory to have an anti-tipping system installed to the wheelchair. This system is usually supplied by the wheelchair manufacturer.
	All operations described in this section (except where otherwise indicated) must be performed with the user in the wheelchair or using an equivalent weight

Crossbeam Kit Assembly

Preconditions



- Execute the following operations with the wheelchair on the ground or on a flat surface.

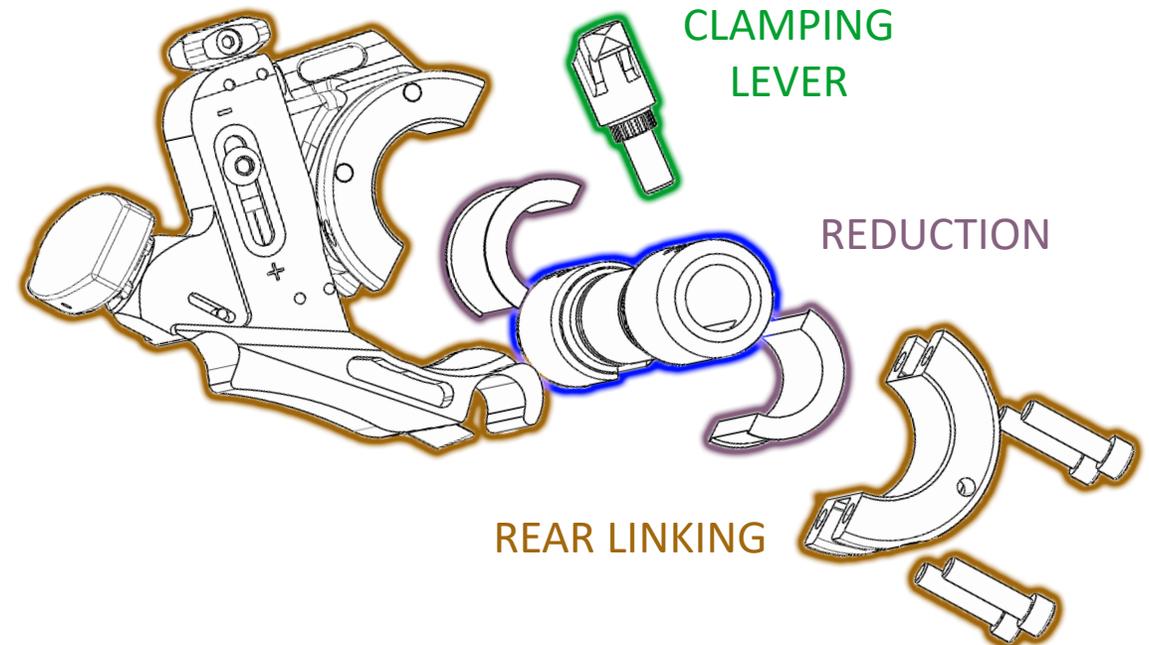
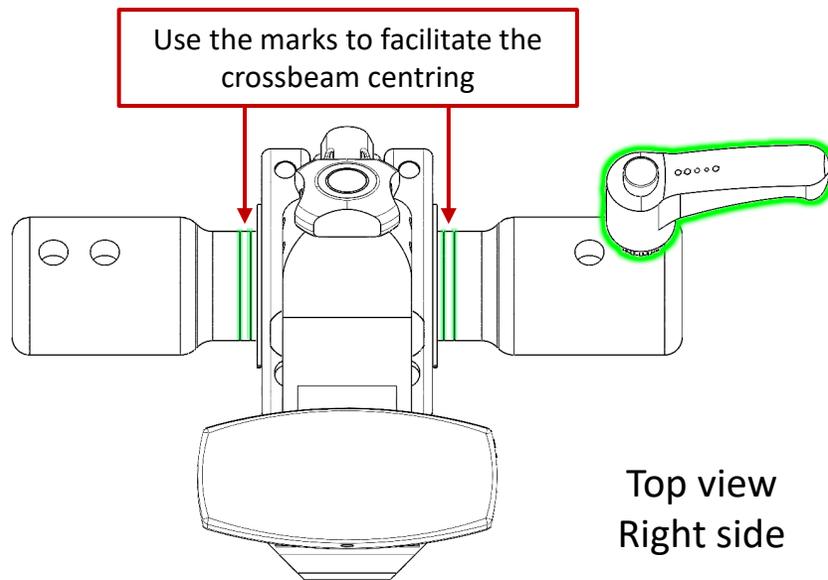
- Check that the wheels of the wheelchair are inflated to the correct operating pressure recommended by the wheelchair manufacturer

Crossbeam Kit Assembly

Assembling the rear linking on the crossbeams

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- Angle the clamping lever to the right of the hook

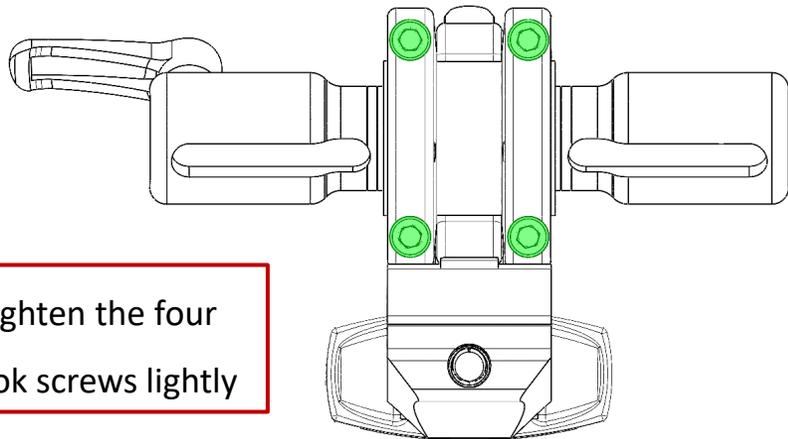


Crossbeam Kit Assembly

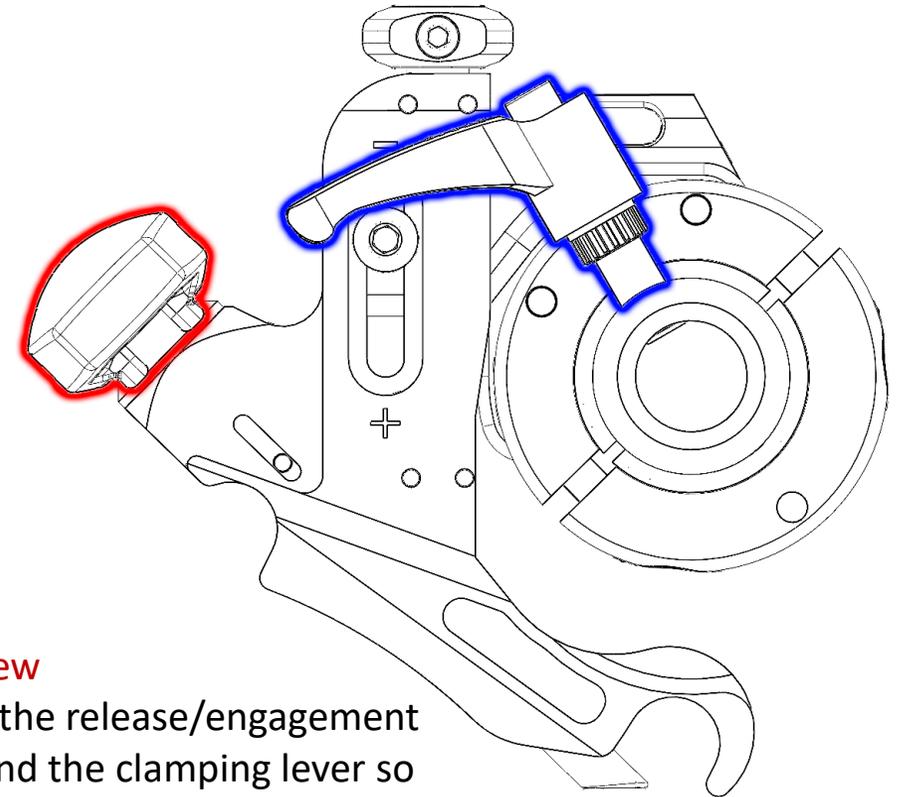
Assembling the rear linking on the crossbeams

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- Orient the release/engagement lever and the clamping lever as shown
- Tighten the four hook screws provisionally



Tighten the four
hook screws lightly



Side view

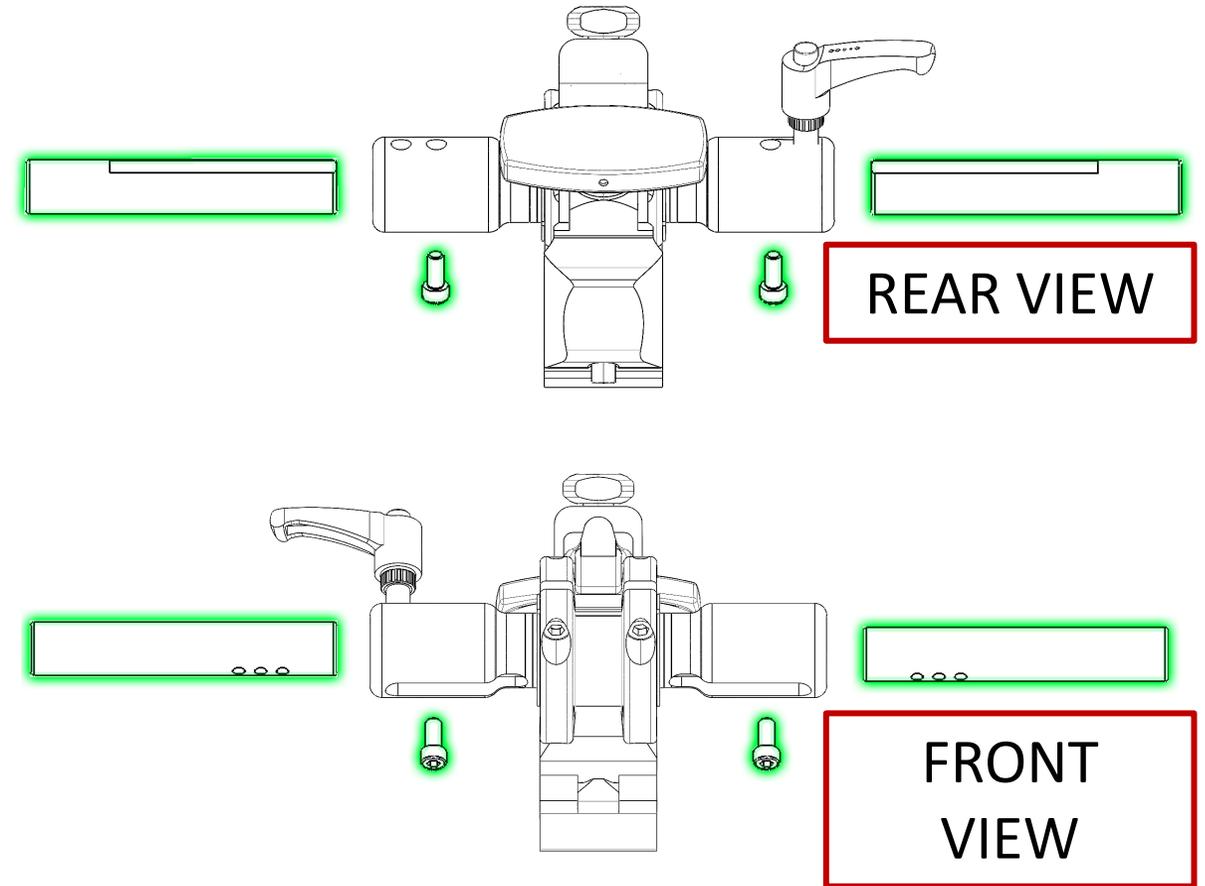
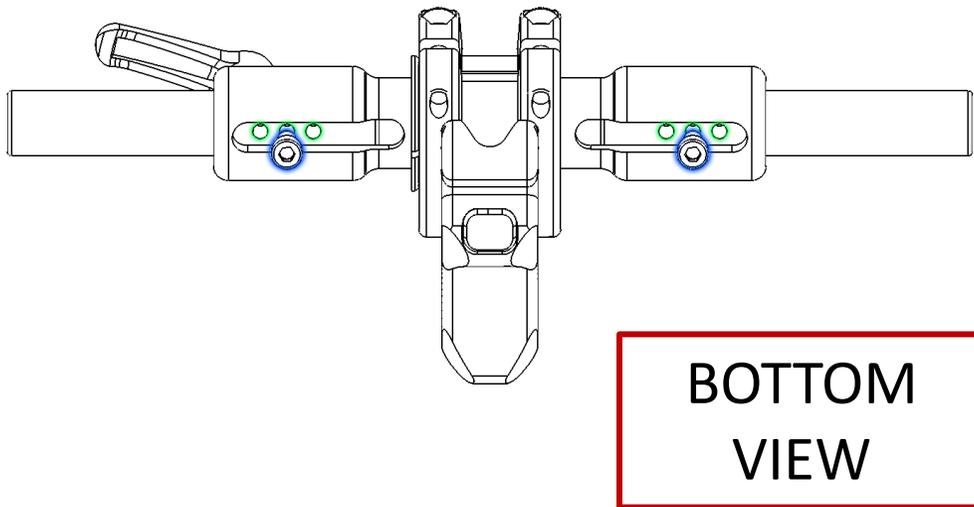
Orient the release/engagement lever and the clamping lever so that the latter rotates unobstructed

Crossbeam Kit Assembly

Assembling the axles on the crossbeam

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- Insert the cylinder head screws of the axles into the intermediate hole, as shown.

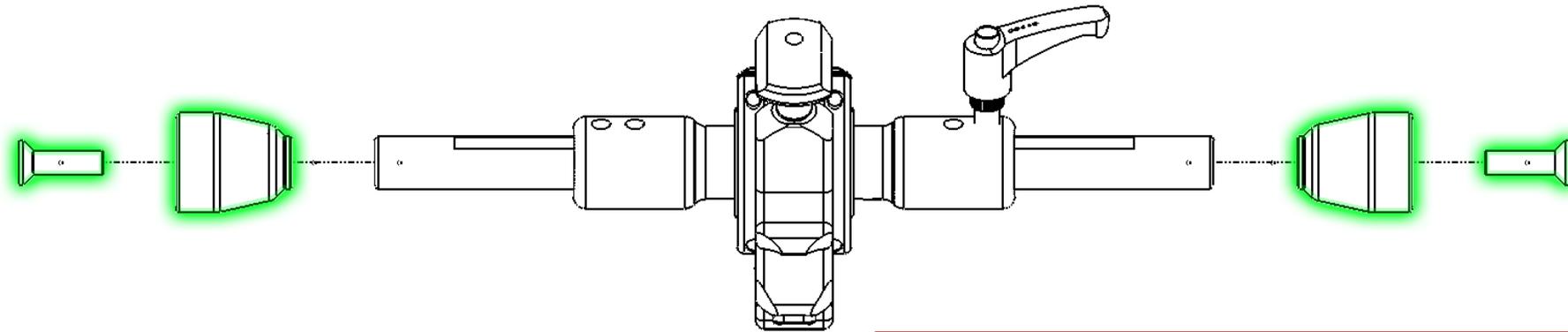


Crossbeam Kit Assembly

Assembling the cups at the ends of the axles

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- Assemble the cups at the ends of the axles
- Fasten them with the corresponding screws



Apply Loctite 243 (or equivalent) on
the bolts' threads.
Tightening torque: 6 Nm

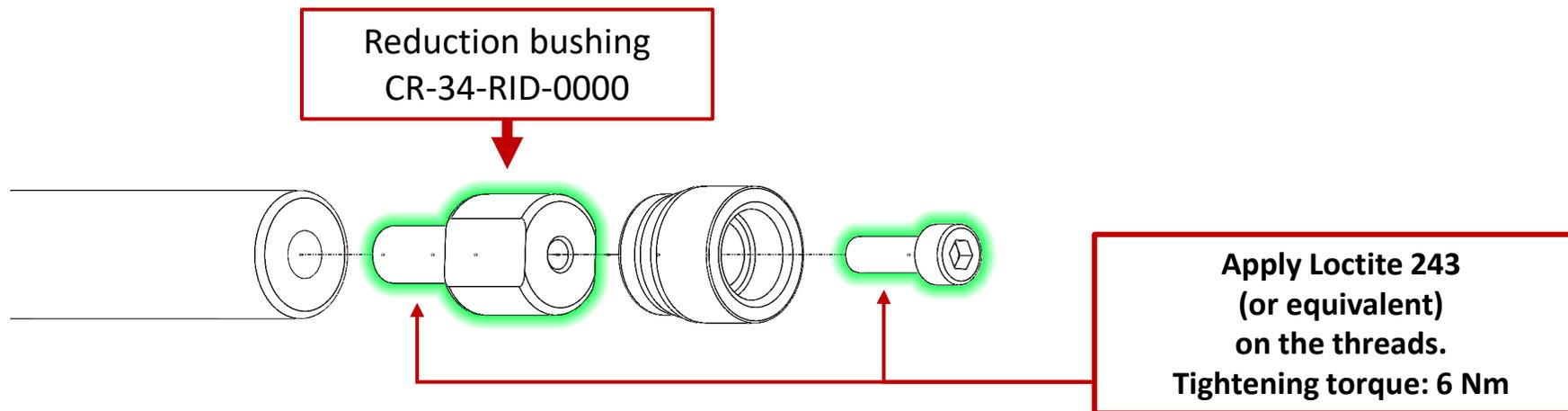
Crossbeam Kit Assembly

Assembling the cups at the ends of the axles

KLAXON®

- **Note:**

For $\varnothing 12$ axle's cups (CR-34-0012) and $\varnothing 13$ axle's cup (CR-34-0013), use the reduction bushing CR-34-RID-0000. Install as illustrated and by using the corresponding screws.



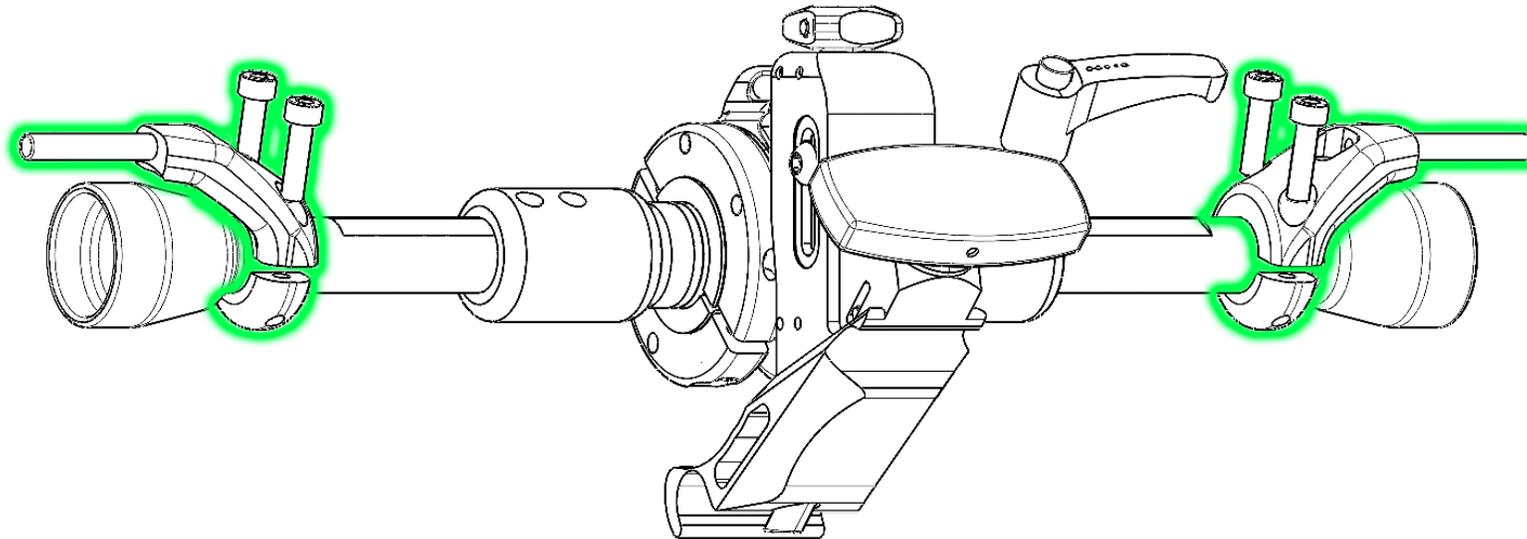
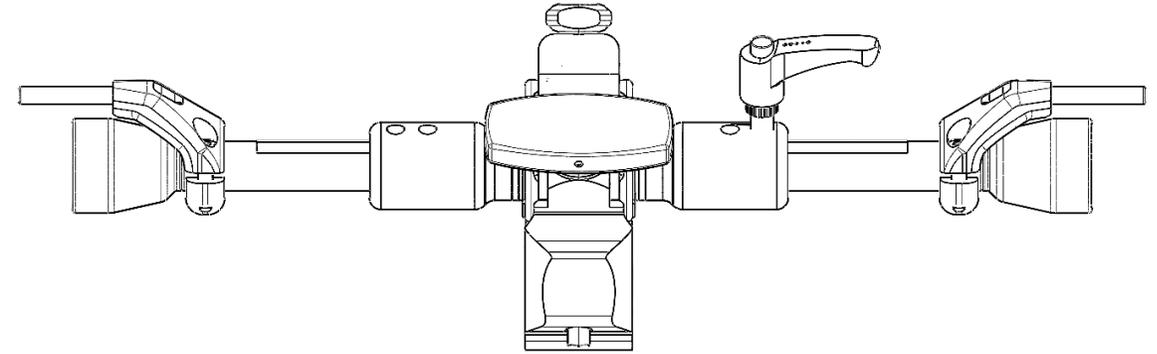
Crossbeam Kit Assembly

Assembling the anti-rotation cuffs

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- Assemble the anti-rotation cuffs

Tighten the four fixing screws provisionally

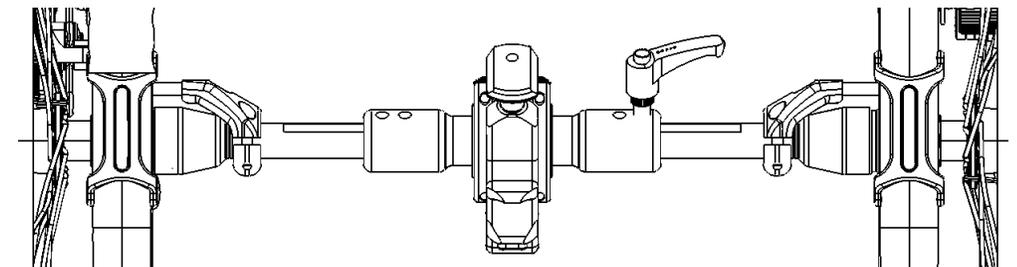
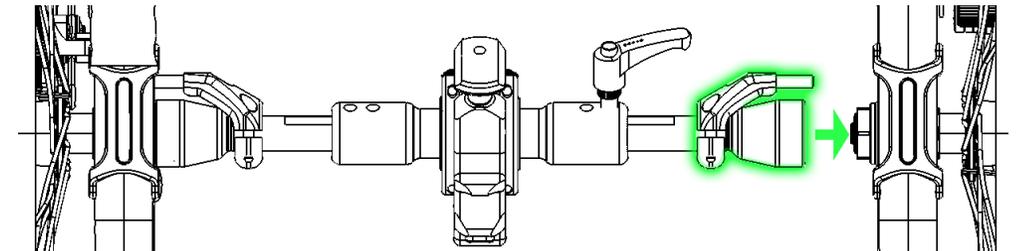
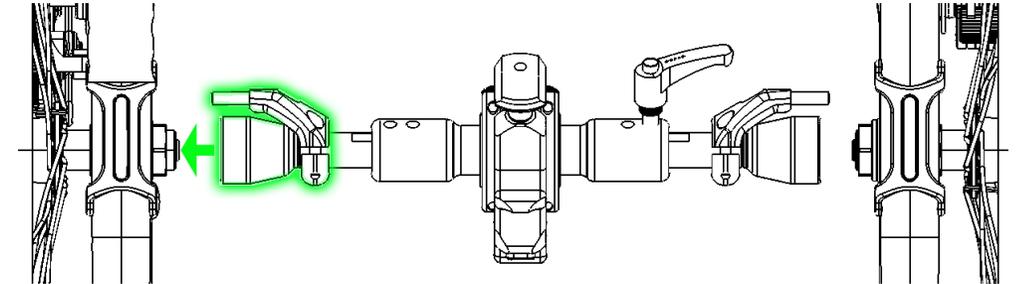


Crossbeam Kit Assembly

Adapt the axles

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- Compress the assembled crossbeam and position it between the wheels of the wheelchair
- Extend the Left axle until it touches the wheelchair
- Extend the Right axle until it touches the wheelchair



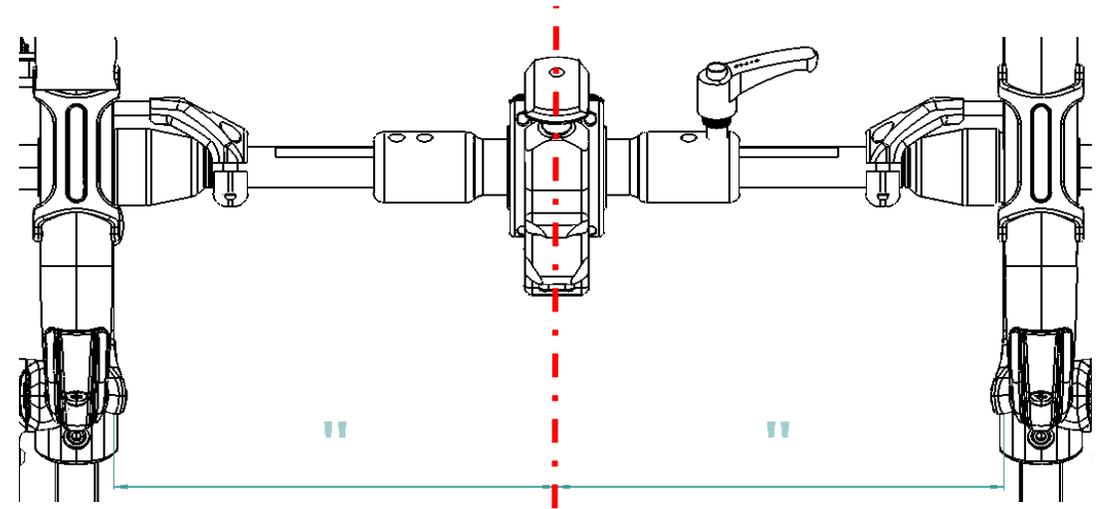
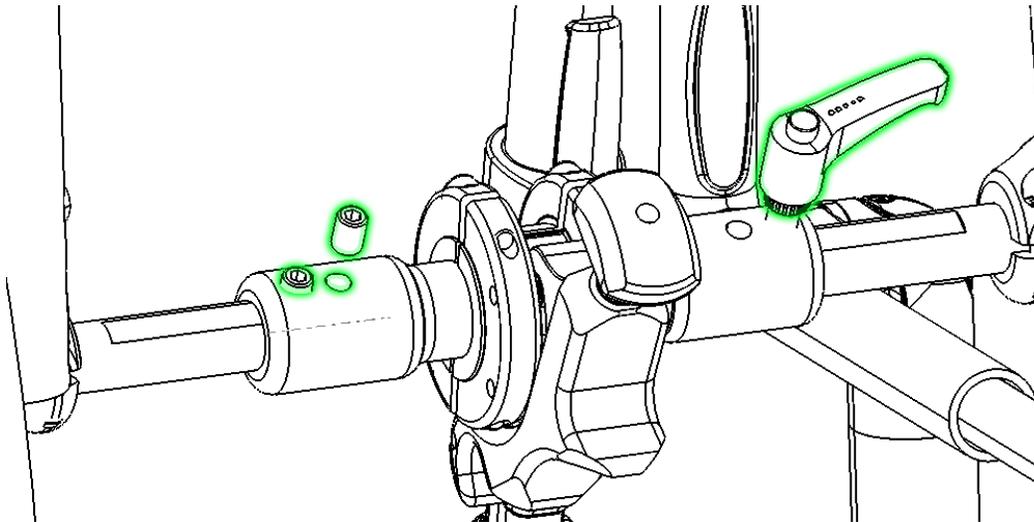
REAR VIEW

Crossbeam Kit Assembly

Centring the Crossbeam

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- With the cups resting against the wheelchair, centre the crossbeams in relation to the wheelchair.
- Provisionally tighten the headless screws and the clamping lever to perform centring.

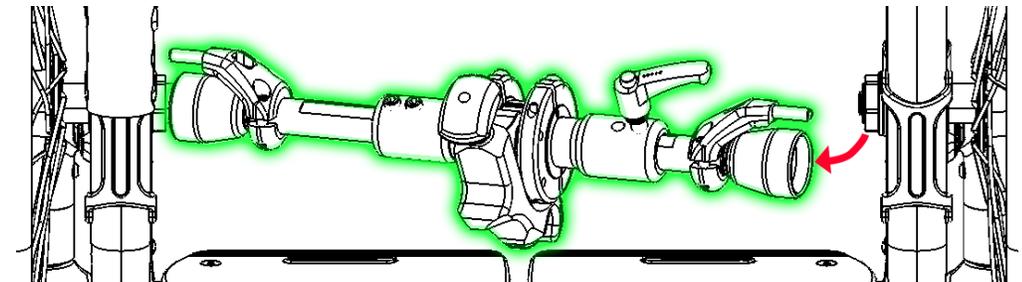
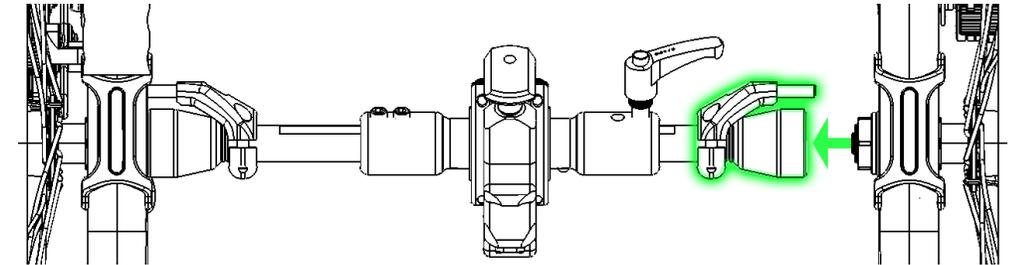


Crossbeam Kit Assembly

Unlinking check

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- Check the release of the crossbeams from the wheelchair
- In order to do so, unscrew the clamping lever and retract the axle held by it. The crossbeams must be able to be removed without hindrance.

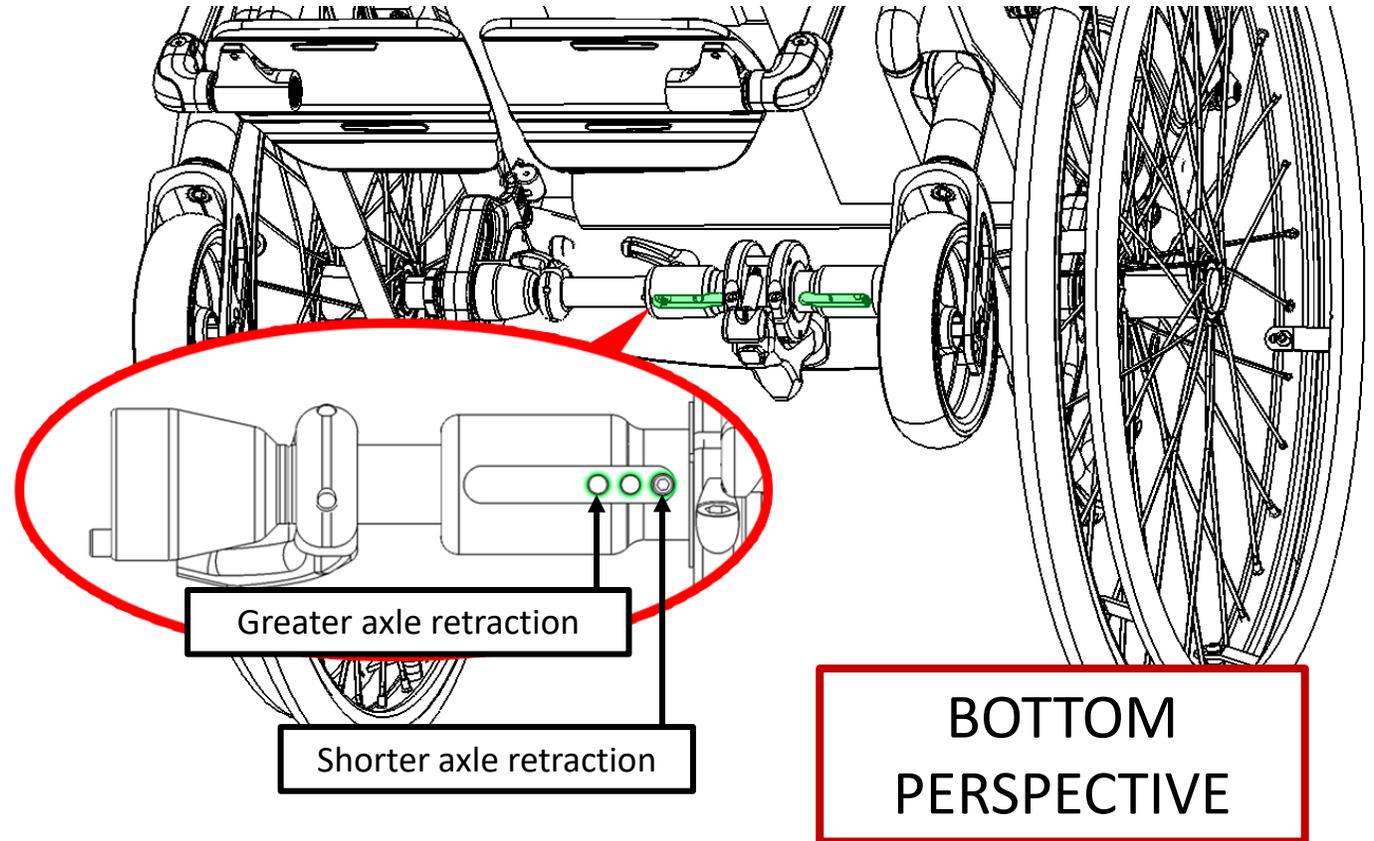


Crossbeam Kit Assembly

Check and Adjustments

KLAXON®

- If it is not possible to release the crossbeam, move the cylinder head screws of the axles. By positioning the screw in a different slot, it will be possible to change the extension of the crossbeam axles
- Repeat the operation to check that the crossbeam can be connected and released correctly

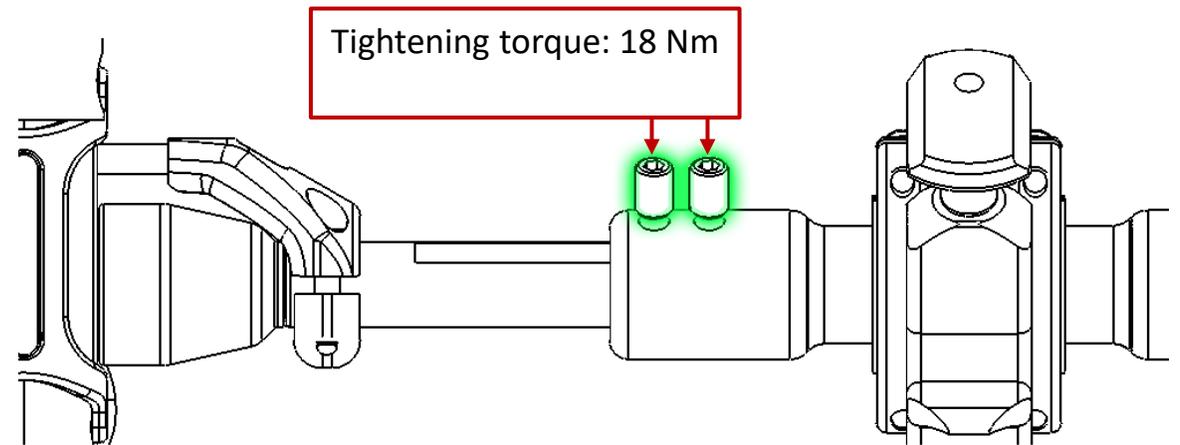
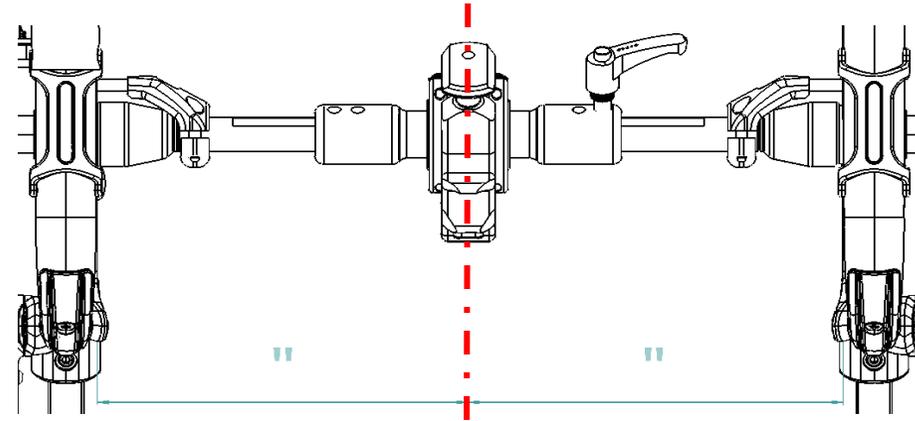


Crossbeam Kit Assembly

Check and Adjustments

KLAXON®

- Check that the rear linking is positioned in the centre of the wheelchair
- Tighten the headless screws of the fixed axle definitively to 18 Nm
- Tighten the clamping lever



Adjustments of the Rear Linking System

Warnings

KLAXON®

	Installation of the Twist and Twist R rear linking system must always be carried out by a Klaxon® authorized technician
	When using the Twist and Twist R at the rear, the installation of the wheelchair manufacturer's anti-tipping system is mandatory
	All operations described in this section (except where otherwise indicated) must be performed with the user in the wheelchair or using an equivalent weight

Adjustments of the Rear Linking System

Preconditions

KLAXON®

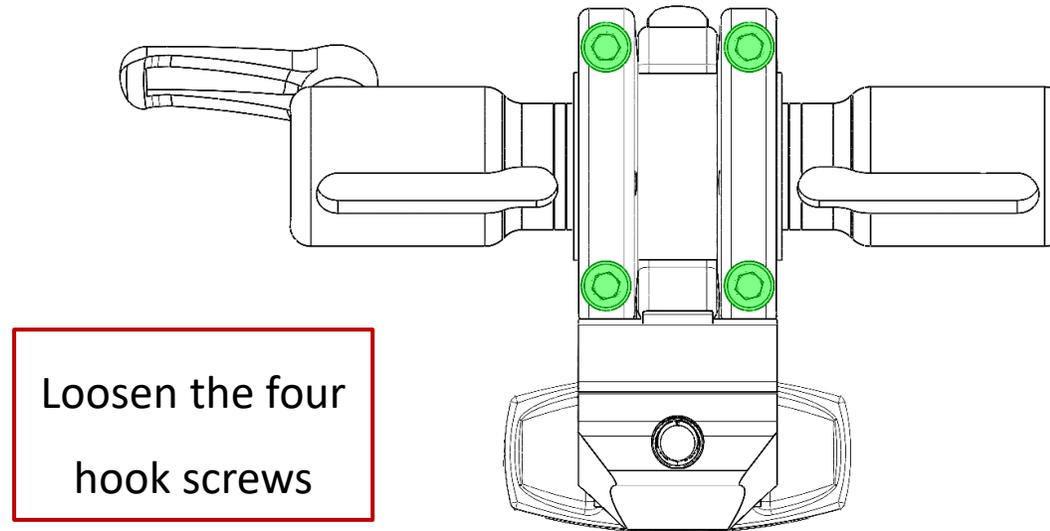
- Execute the following operations with the wheelchair on the ground or on a flat surface.
- Check that the wheels of the wheelchair are inflated to the correct operating pressure recommended by the wheelchair manufacturer

Adjustments of the Rear Linking System

Rear linking setup

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1. Loosen the 4 hook screws enough to be able to rotate it easily.

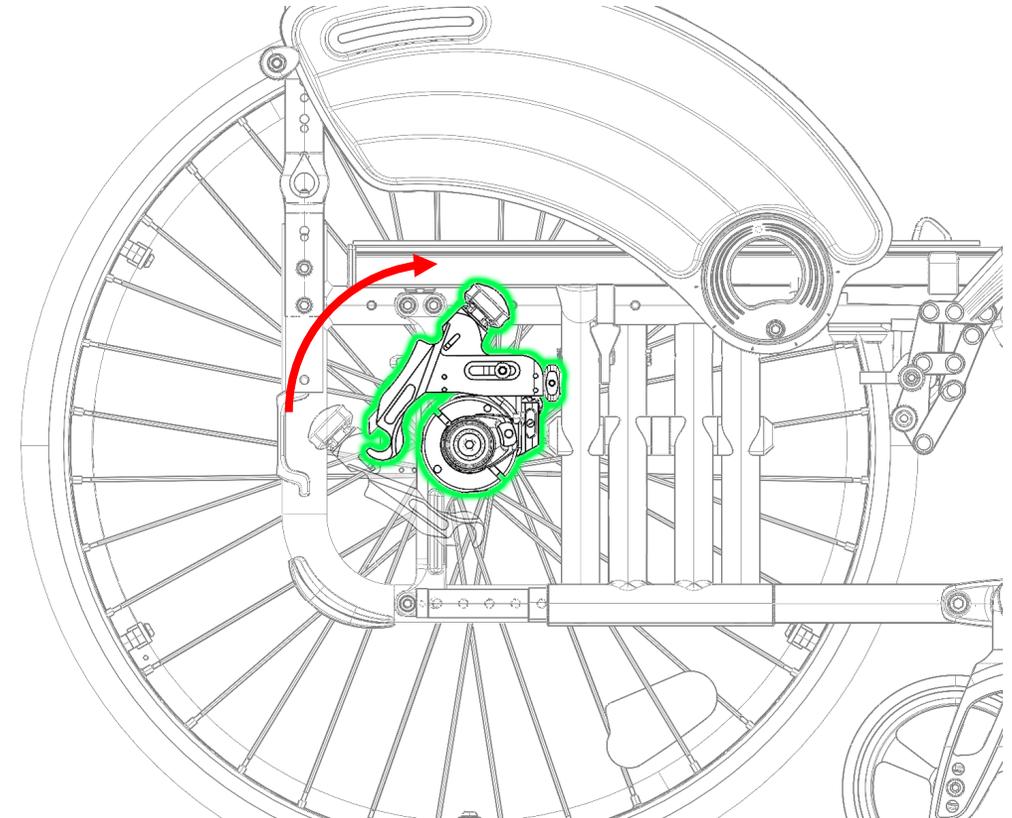
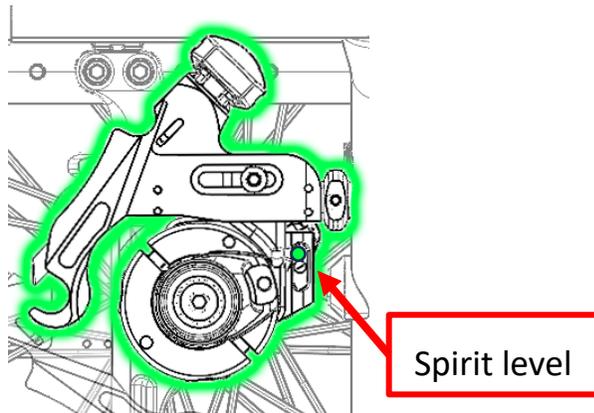


Adjustments of the Rear Linking System

Rear linking setup

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2. With the wheelchair oriented as in figure, rotate the Rear Linking counter-clockwise until the spirit level is completely vertical or until the rear linking touches the seat of the wheelchair.

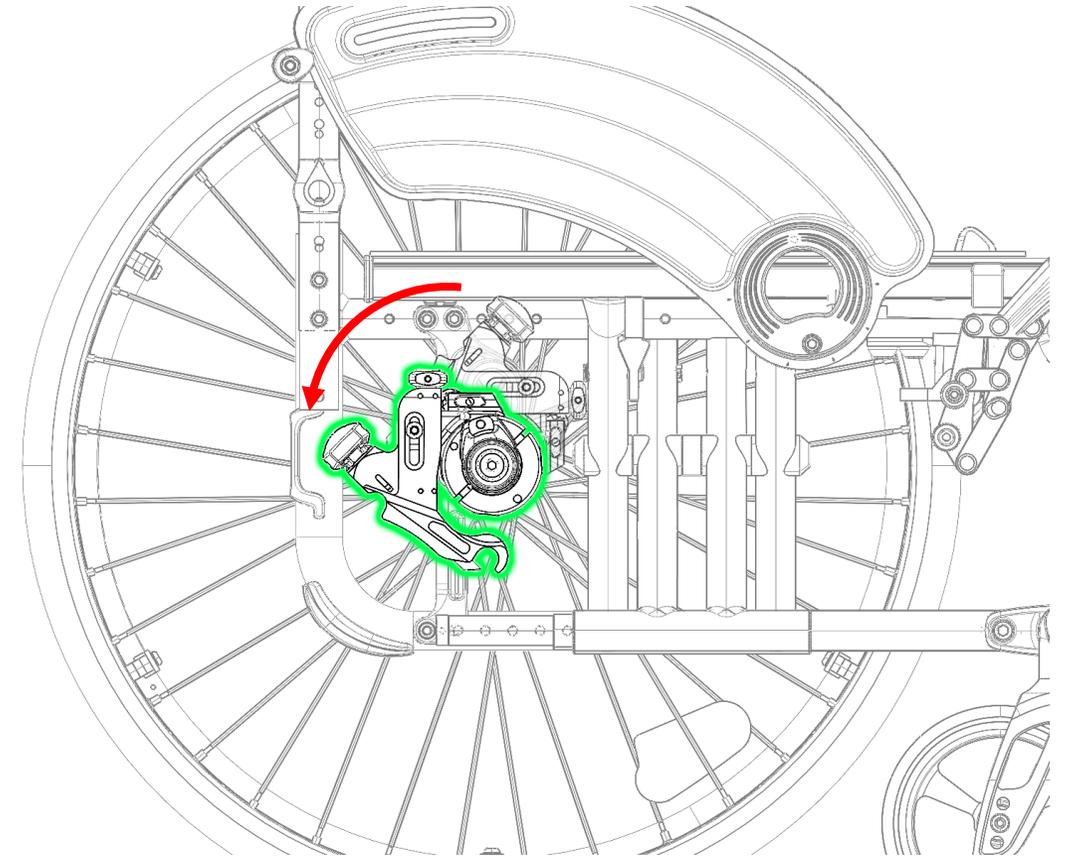
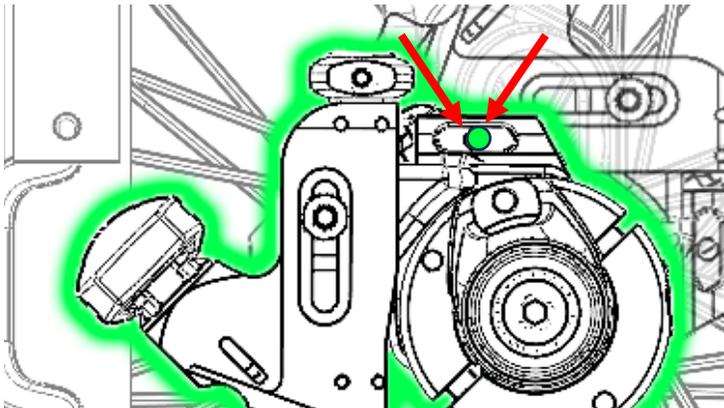


Adjustments of the Rear Linking System

Rear linking setup

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3. Rotate the Rear Linking clockwise until the spirit level returns perfectly horizontal.



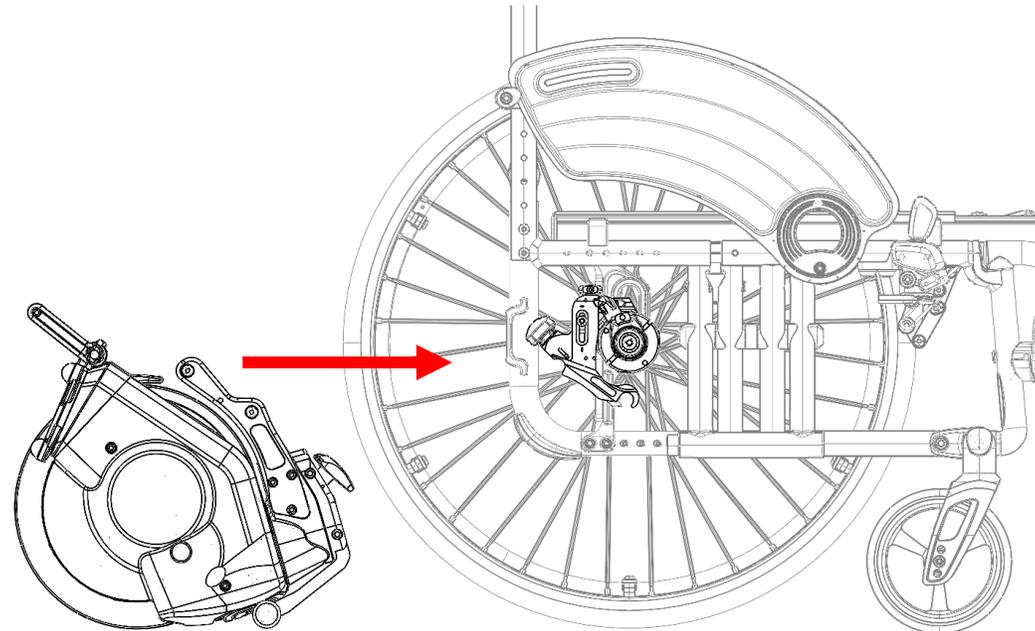
Adjustments of the Rear Linking System

Linking the Twist/Twist R at the rear

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Note: The following steps apply to both the Twist ver. 2025 (comprehensive of the Frame for Rear Linking System KT-16-0001) and the Twist R ver. 2025.

4. Place either the Twist or Twist R behind the wheelchair and bring it close to the Rear Linking.

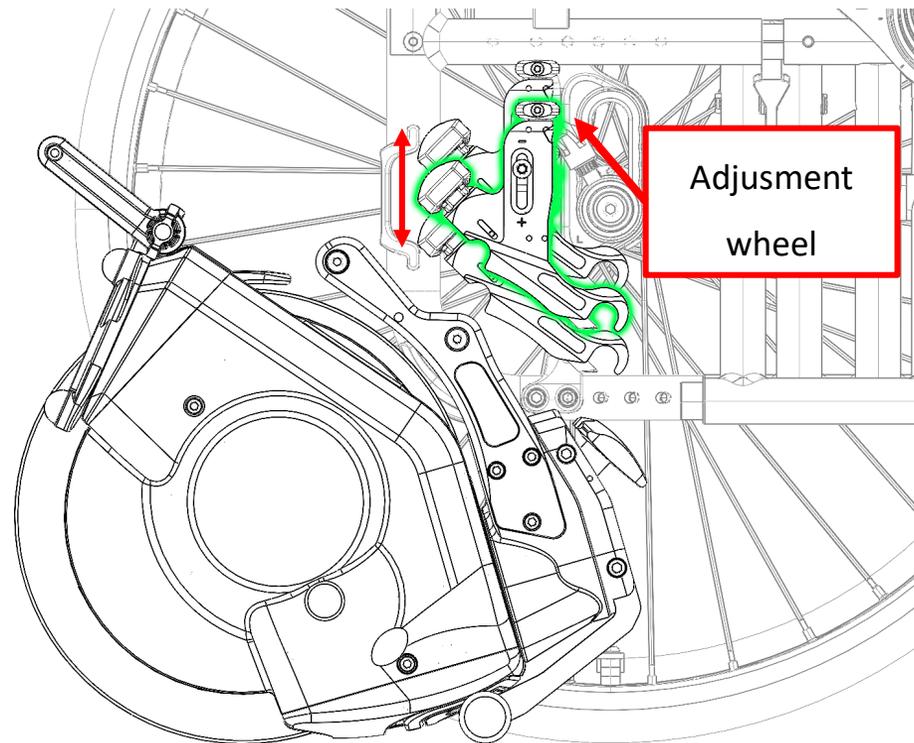


Adjustments of the Rear Linking System

Linking the Twist/Twist R at the rear

KLAXON®

5. With the Twist close to the Rear Linking, it is now possible to fine tune the height of the system using the adjustment wheel.

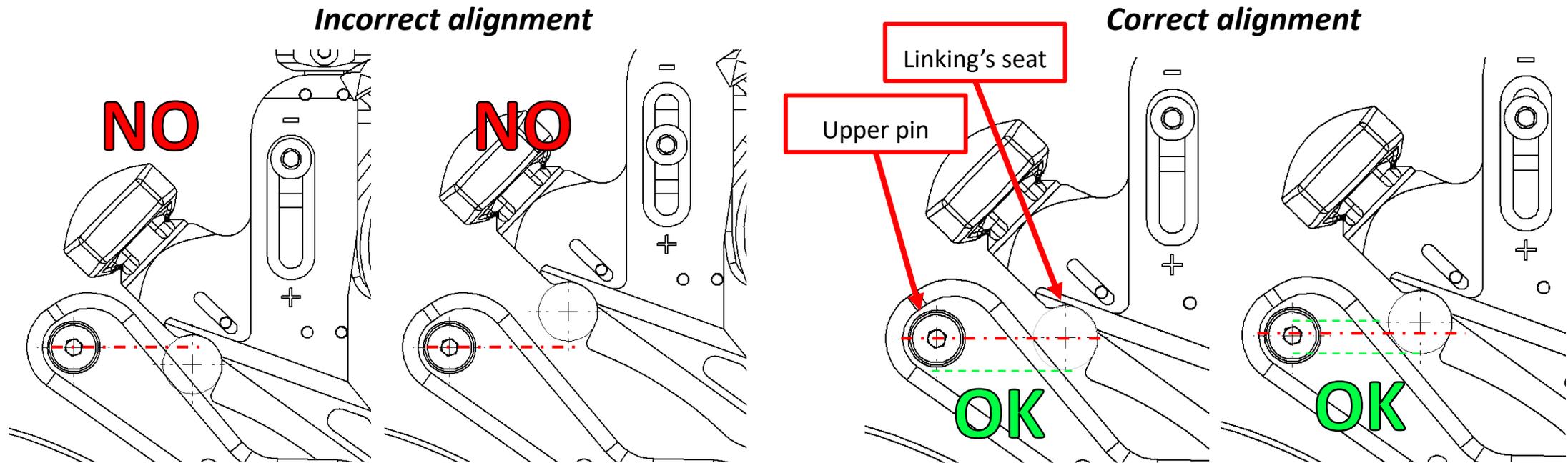


Adjustments of the Rear Linking System

Linking the Twist/Twist R at the rear



Align the upper Pin of the Twist to its correspondent seat on the Rear Linking (see figure below). The upper pin shall be positioned with its centre aligned with the centre of the linking's seat or slightly below it, as shown in figure.

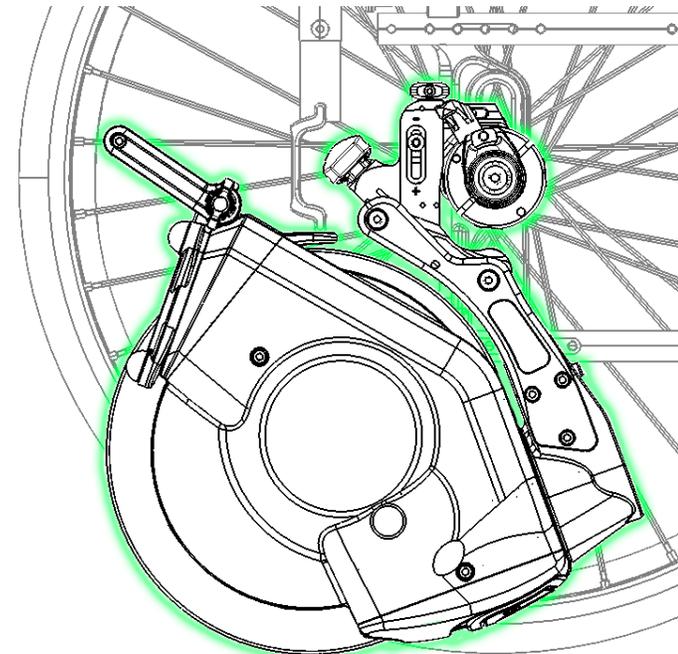
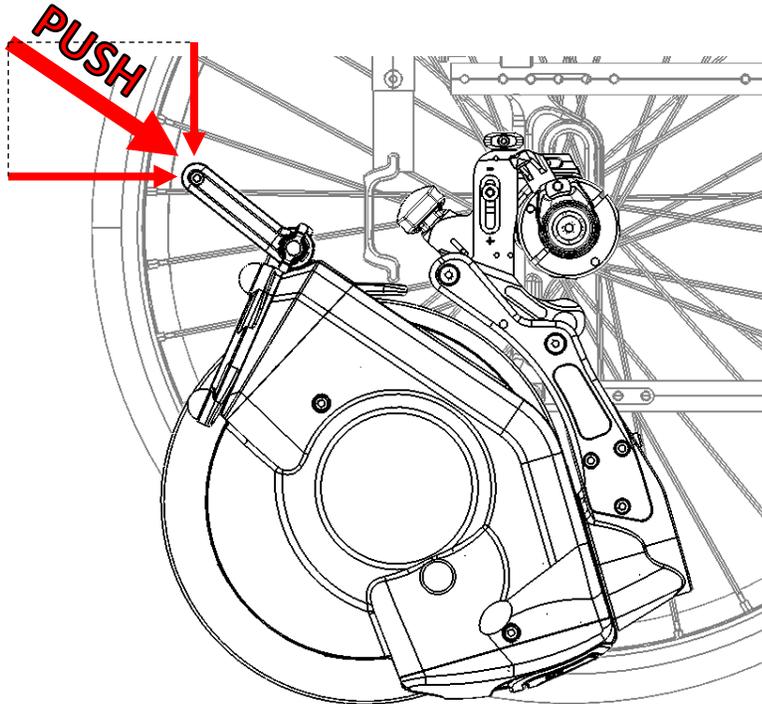


Adjustments of the Rear Linking System

Linking the Twist/Twist R at the rear

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6. Connect the Upper Pin and the Rear Linking. Complete the connection by pushing the Twist stand handle forward and downward at the same time.

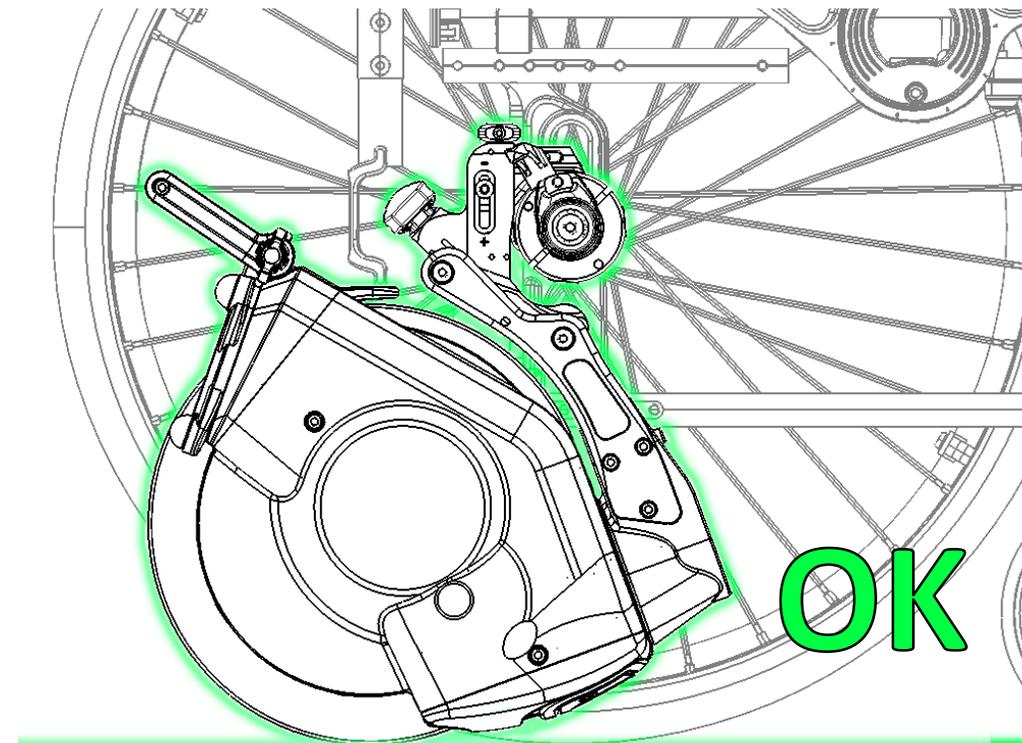
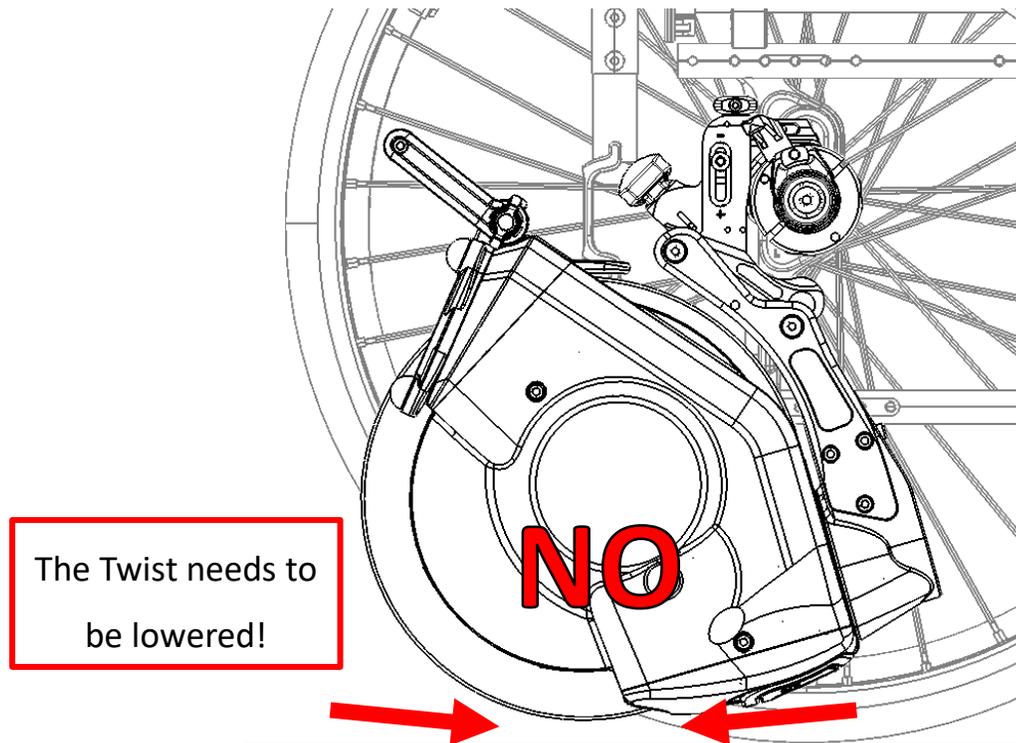


Adjustments of the Rear Linking System

Linking the Twist/Twist R at the rear

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7. With the Twist connected to the wheelchair, check for the wheel of the device to be in contact with the ground. If not, lower the Twist intervening on the Adjustment Wheel.

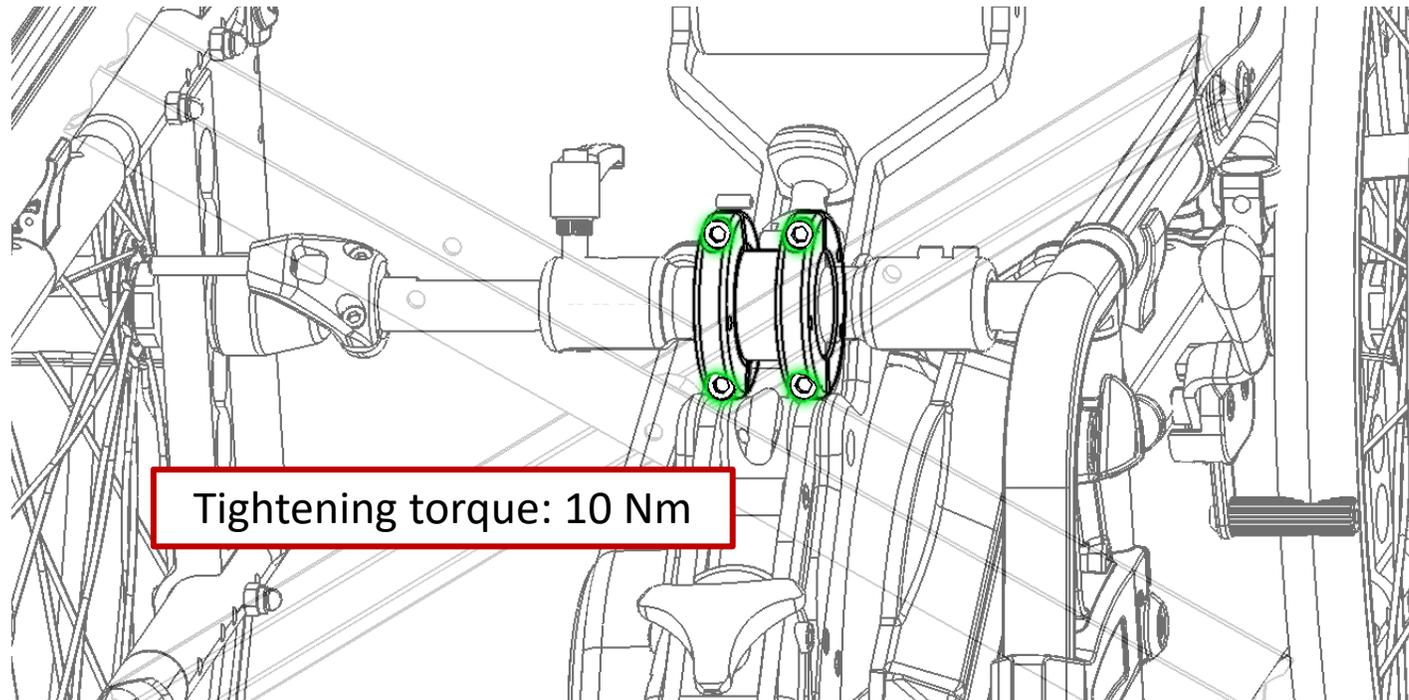


Adjustments of the Rear Linking System

Linking the Twist/Twist R at the rear

KLAXON®

8. Tighten all four linking screws evenly and definitively.

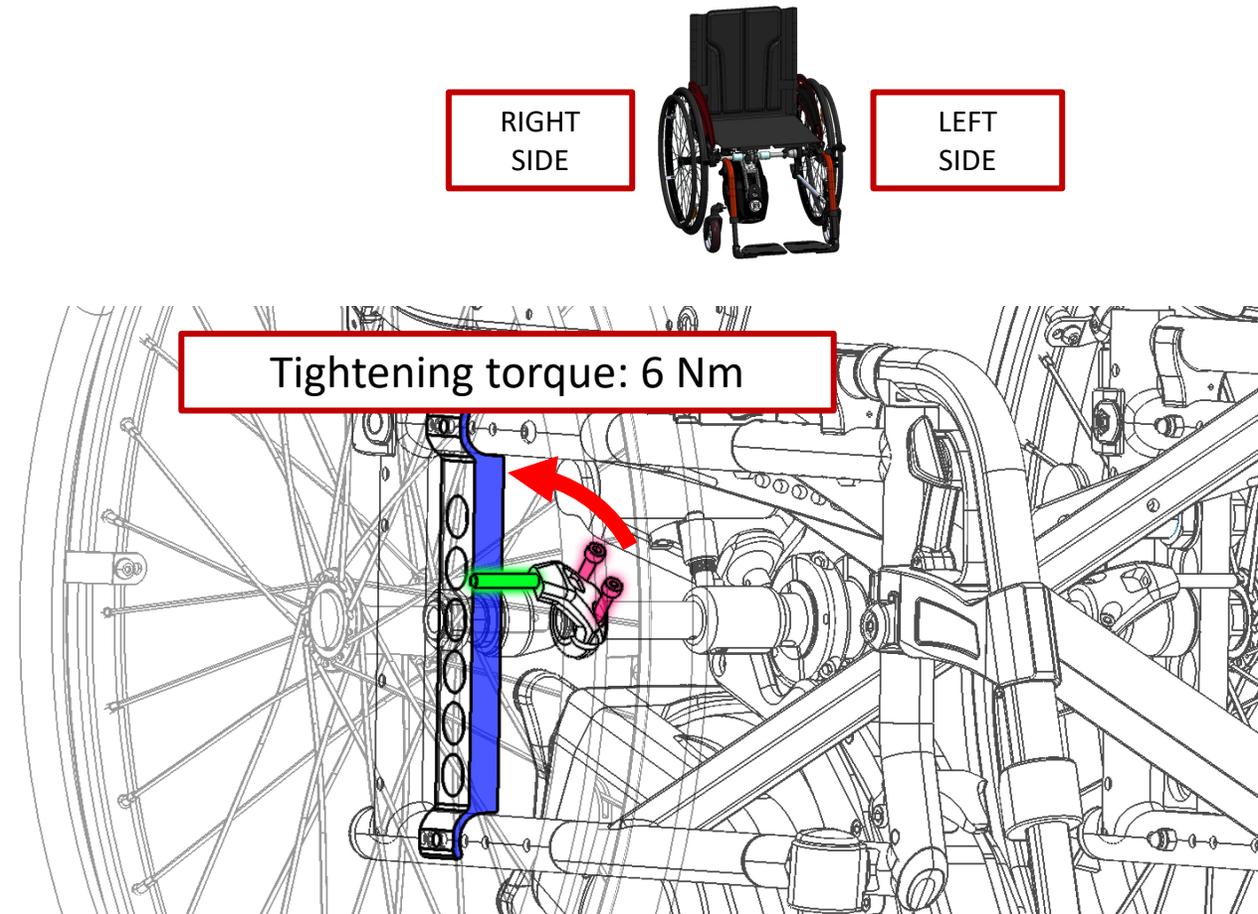


Adjustments of the Rear Linking System

Adjustment of the anti-rotation cuff on the right wheel

KLAXON®

9. While working on the **right side** of the wheelchair, bring the **cuff axle** into contact with the wheelchair **wheel bracket** by rotating it counterclockwise. Tighten the two **cap screws** with a torque of 6 Nm, taking care to tighten the screws evenly, alternating between the two.

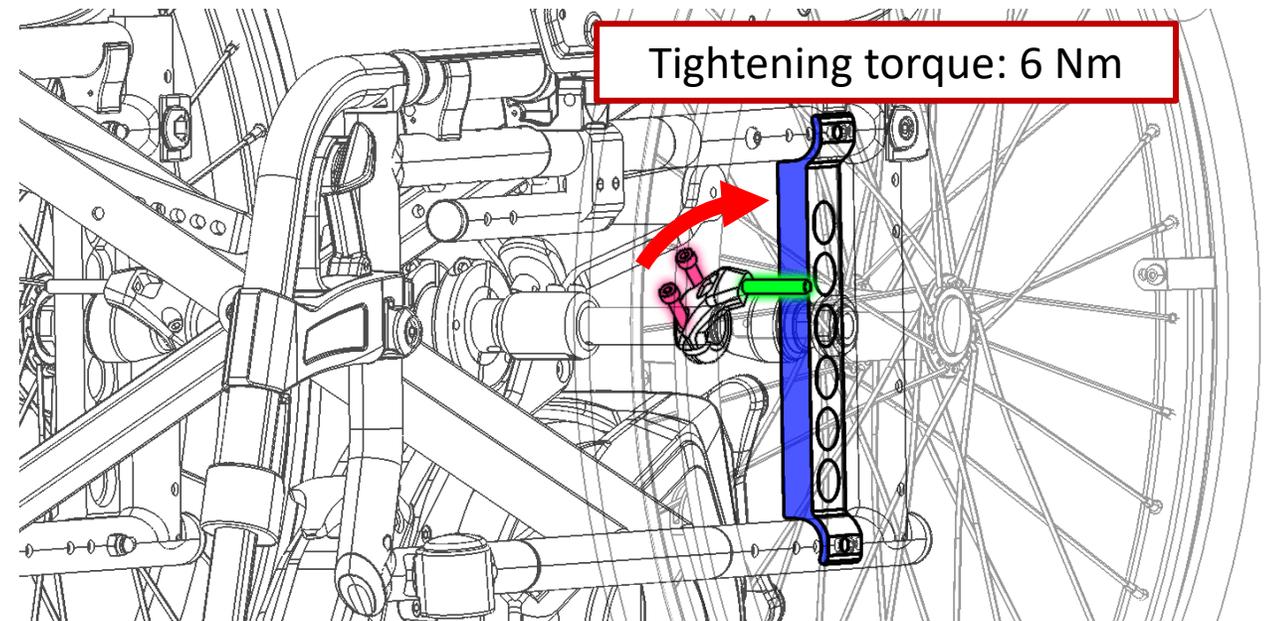


Adjustments of the Rear Linking System

Adjustment of the anti-rotation cuff on the left wheel

KLAXON®

10. While working on the **left side** of the wheelchair, bring the **cuff axle** into contact with the wheelchair **wheel bracket** by rotating it clockwise. Tighten the two **cap screws** with a torque of 6 Nm, taking care to tighten the screws evenly, alternating between the two.



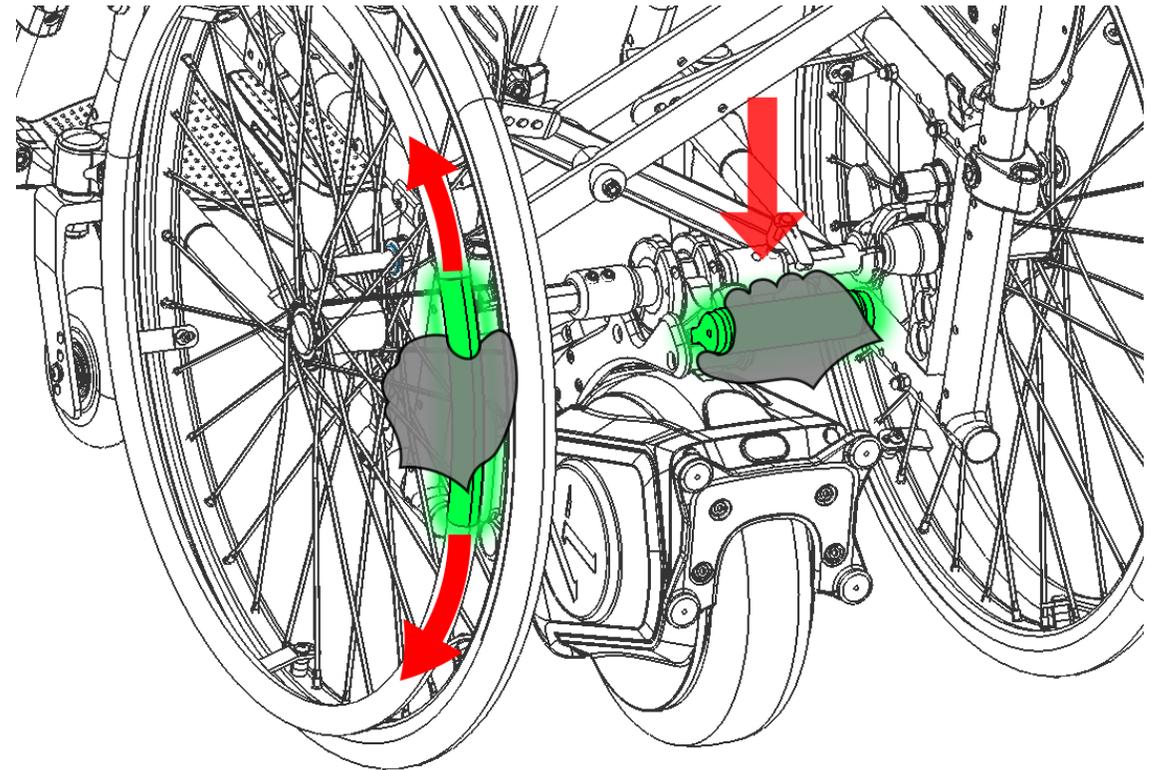
Adjustments of the Rear Linking System

Final check

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11. Have the user leave the wheelchair or unload the equivalent weight.
12. Check that the Twist does not lift the wheelchair's wheels by forcefully pushing the device's stand handle downwards.

If the wheelchair's wheels can rotate, then the Twist needs to be raised with the Adjustment Wheel.

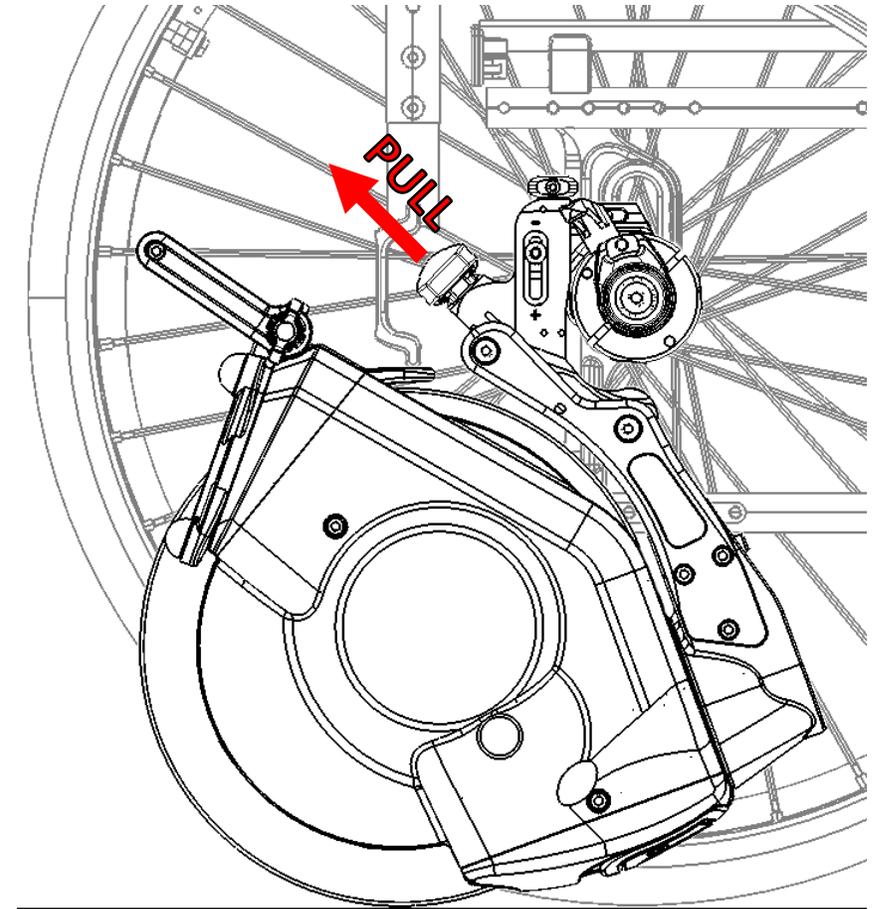


Adjustments of the Rear Linking System

Final check

KLAXON®

13. Detach the Twist from the wheelchair by pulling the release/engagement lever.
14. Check again that the Twist connects to the wheelchair correctly with and without the user on board. If not, untighten the bolts at steps 8, 9 and 10 and repeat the steps from 1 to 14.

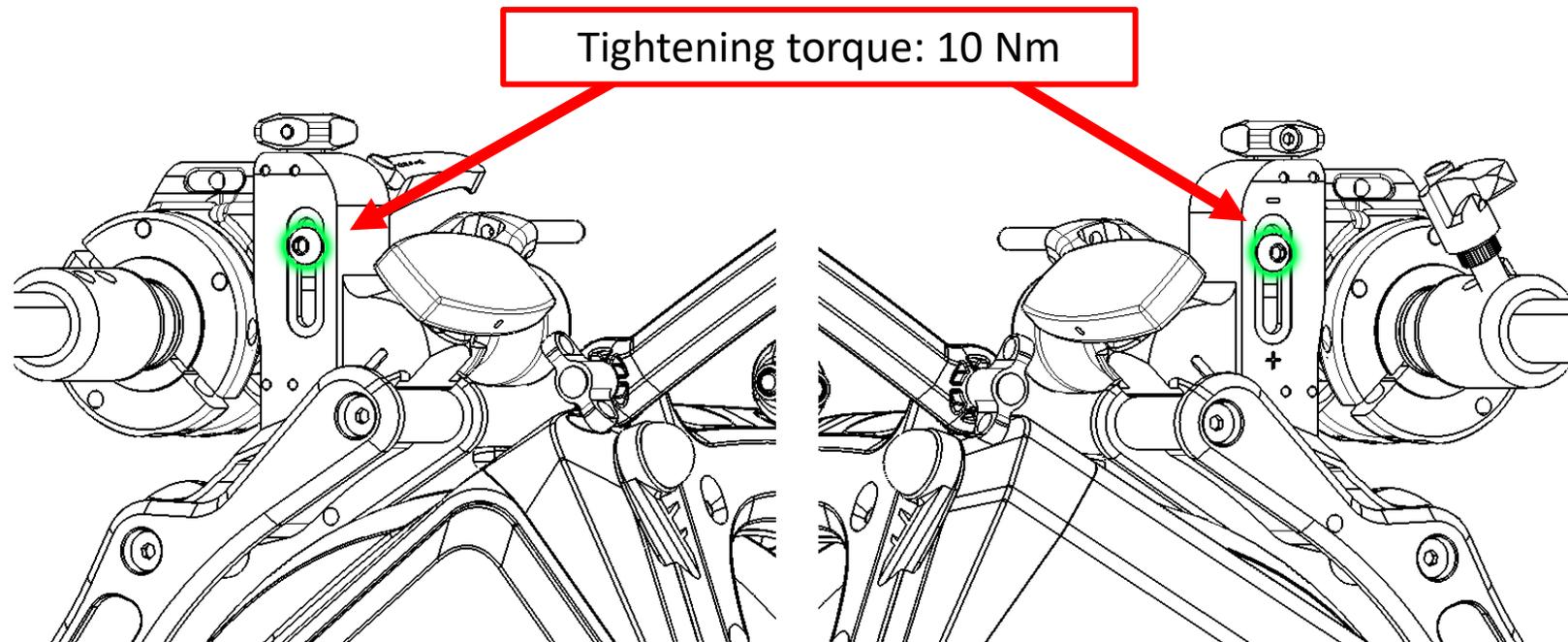


Adjustments of the Rear Linking System

Final check

KLAXON®

15. With the installation completed, tighten the adjusting screws on the sides of the Rear Linking up to 10 Nm to lock its height in position.





The art of moving