INSTRUCTION SHEET

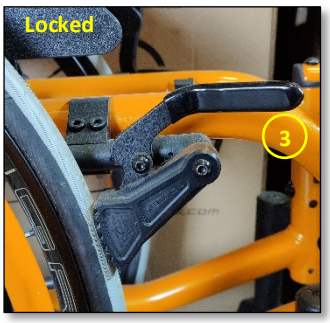
ADJUST THE NEWTON GRADE AID WHEEL LOCKS

This document explains how to properly **adjust** the **position of** the **Newton 3 positions grade Aid Wheel Lock**.

Wheelchair model(s)	Tool(s) and materials required
• All wheelchairs	• Hex keys (Allen keys): 4 mm, 5 mm • Medium strength threadlocker adhesive (blue Loctite) • Torque wrench

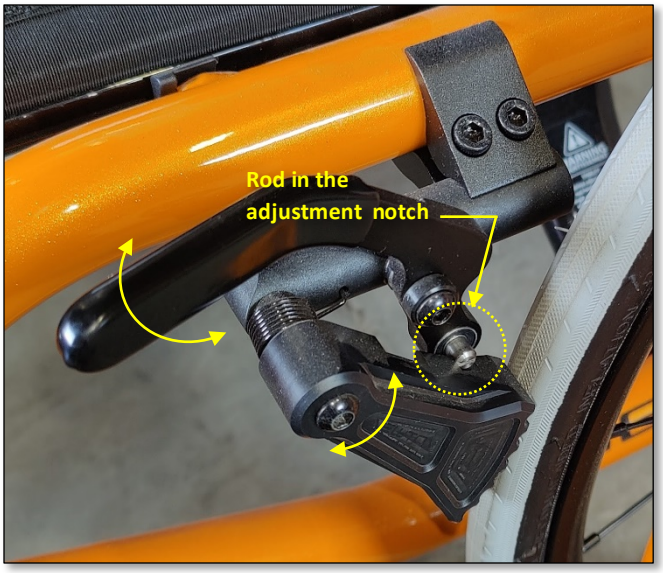
OPERATION

- **Position 1 - Free**: The rear wheel is free to turn in both directions
- **Position 2 - Grade Aid**: The wheel can only be turned forward. Backward movement is blocked by wheel lock
- **Position 3 - Locked**: The wheel is locked in both directions



ADJUSTING A GRADE AID WHEEL LOCK

- **Manually release** the **wheel lock** by pushing the lever backward and **place it** so that the **short pin of** the mechanism engages in the **adjustment notch**



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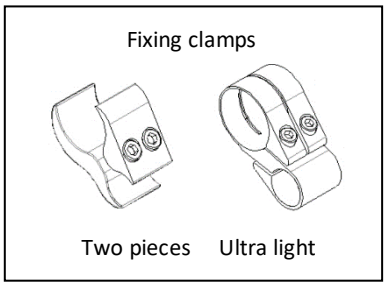
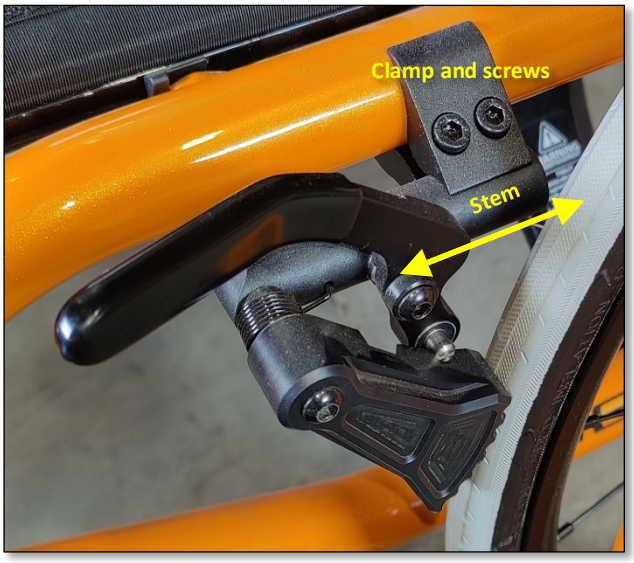
- **Loosen** the **two screws of the** wheel lock **fixing clamps**:
  - **Two pieces** clamp (photo): **5 mm** hex key
  - **Ultralight** one piece clamp: **4 mm** hex key





- **Slide** the wheel lock **stem forward** or **backward** in the **clamp** to get **about a 1 mm gap** between the **tire** and the **wheel lock** (see photo)
  - **TIP**: You can use a **credit card** to set the **gap**
- **Tighten** the **screws** of the **clamp without forcing them too much**
- Apply medium strength **threadlocker adhesive** (blue Loctite) to the end of the screw threads:
  - Loosen one screw and keep the other one in place
  - Apply the threadlocker adhesive and then tighten the screw
  - Do the same for the other screw
- Apply the proper **tightening torque** according to the size of the key:
  - **4 mm** key: **7 Nm**
  - **5 mm** key: **12 Nm**
- **Repeat** the **operations** for the **other wheel lock**
- **Test** the **correct operation of** the grade aid wheel locks