

UCI BIKE MEASUREMENT STATION

Assembly and Use

4/5/2022

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Itinerary

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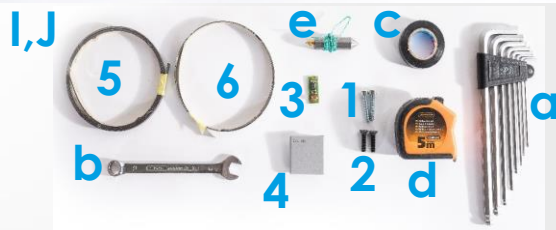
- ▶ Package and included parts
- ▶ Assembly
- ▶ Use
- ▶ Demonstration
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Package and included parts

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- A. Travel case
- B. Base frame
- C. Laser display & mast
- D. Bike axle holder
- E. Saddle target
- F. Extension target
- G. Extension gauge
- H. Digital protractor
- I. Tools
 - a. PRO hex wrench set
 - b. 13mm spanner
 - c. Electrical tape
 - d. Measurement tape
 - e. Plumb bob
- J. Spare parts
 - 1. 2x M6 x 30mm
 - 2. 2x M6 x 20mm
 - 3. Linear encoder chip
 - 4. 45x45mm profile cap
 - 5. Magnetic strip
 - 6. SS cover strip

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Assembly

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Step 1: *Remove the base frame (B) from the Travel case (A) and place it on the ground.*

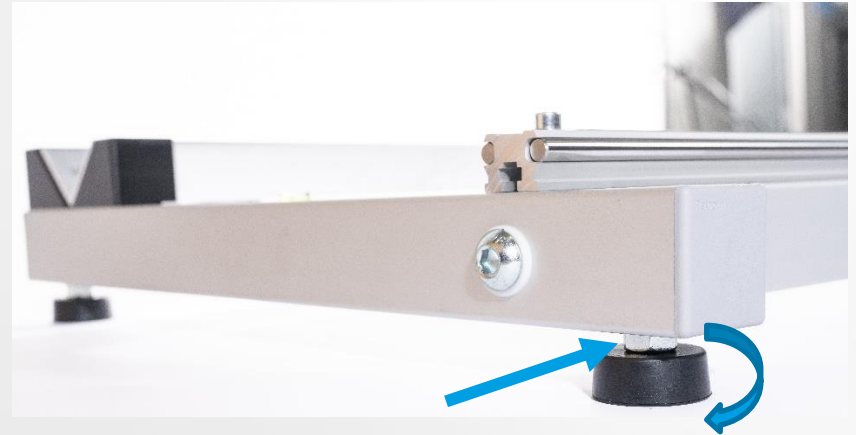


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Step 2: Use the levelling feet and the built-in bubble level to level the base frame (B). Once it is level, use the 13mm spanner (b) to tighten the lock nuts, securing the feet in place.

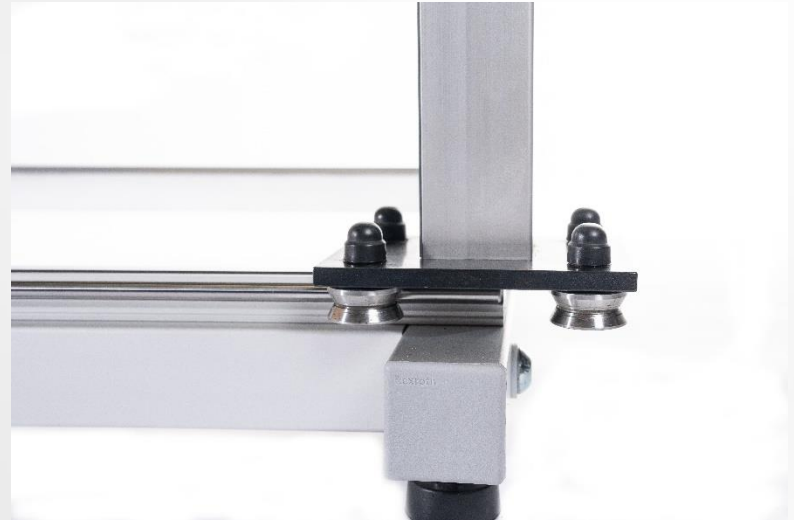
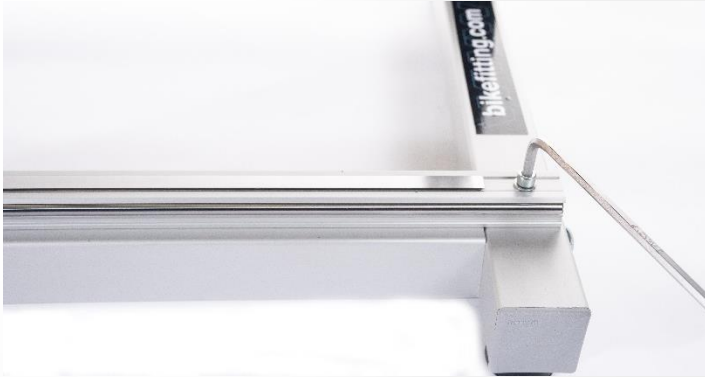


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Step 3: Remove one of the stopper bolts and carefully slide the laser display mast (C) onto the rail. Pay special attention to keep the base plate of the mast level with the rail during installation. Replace the stopper bolt.

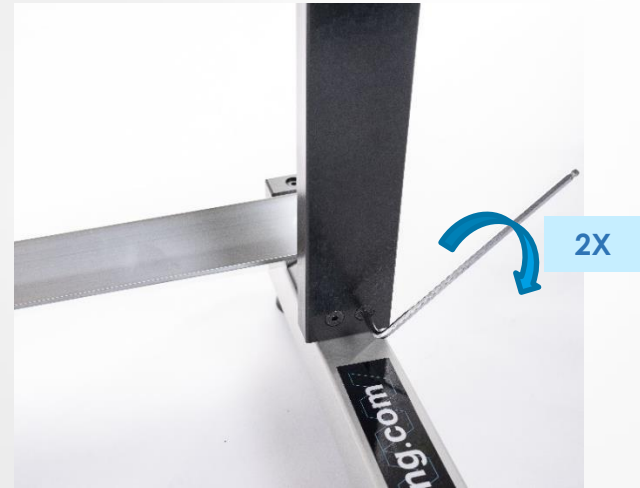
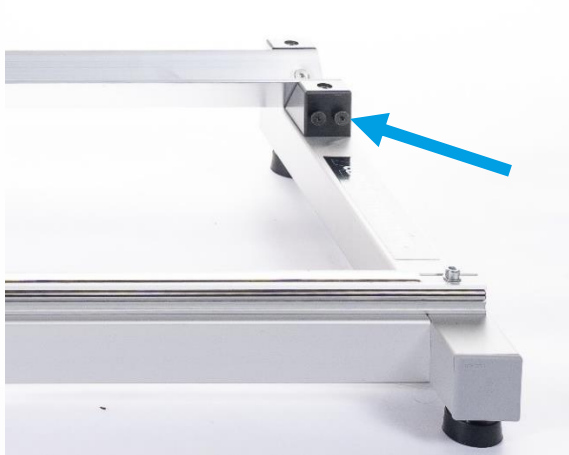


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Step 4: Use the 4mm PRO hex wrench (a) to attach the bike axle holder (D) to the base frame (B).



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Step 5: Place the digital protractor (H) on the extension gauge (G) and place the gauge on the V-shaped profile of the base frame (B). Press and hold the “ZERO” button to the digital protractor (H) for 3 seconds to calibrate it.



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Step 6: Place the bike on the base frame (B) in the V-shaped rail. Use the thumb screw to adjust the bike support (D) to the correct height to secure the rear axle in place.



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Step 7: Place the saddle target (E) on the saddle, ensuring the nose of the saddle is flush with the front wall of the pointer and that the engraved wall is perpendicular to the laser tool (C).



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Step 8: Place the extension target (F) near the end of the extension closest to the laser tool (C) and secure it in place using the thumb screw.



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Step 9: Set the bottom bracket of the bicycle as the reference point for the measurements by aligning the crosshair laser with the bottom bracket and pressing the “ZERO BB” button on the screen



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Step 10a: Measure the saddle position by aligning the crosshair laser with the engraved crosshair on the saddle target and pressing the “S” button on the screen. If the saddle position is compliant, the button will turn green, if it is not compliant, it will turn red.



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Step 10b: Measure the saddle tilt by visually checking the horizontal laser line. If the laser line falls between the 9deg engraved lines on the saddle target, the saddle tilt is compliant. If the horizontal laser line falls outside of the two engraved lines, the saddle tilt is not compliant. The tilt can also be measured by placing the digital protractor on the top of the saddle target.



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Step 10c: Measure the saddle length by looking through the clear top of the saddle target. If the saddle falls between (or on) the 24cm and 30cm engraved lines, the saddle length is compliant. If it is before the 24cm line or behind the 30cm line, the saddle is either too short or too long respectively.

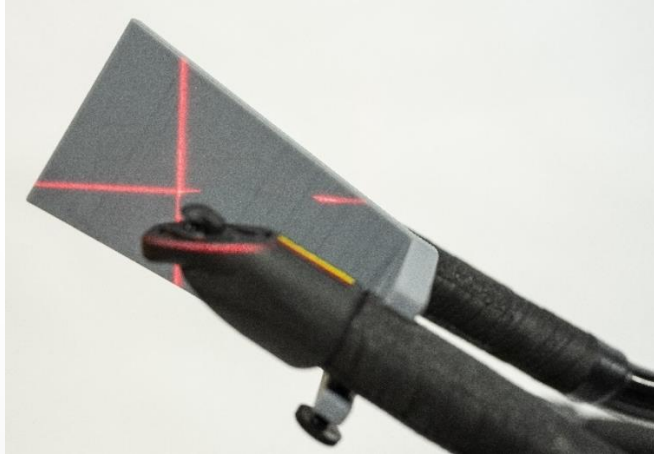


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Step 11: Measure the extension position by aligning the crosshair laser with the edge of the furthest extremity of the handlebar and pressing the “E” button on the screen. If the position of the extensions are compliant, the button will turn green, if they are not compliant, the button will turn red. If the rider is taller than 190cm, press the “E for >190” button to apply the new calculation.



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Step 12a: Measure the extension rise with the extension gauge (G). Place the post of the gauge in the centre of the arm pad with the digital protractor facing you. If you can hold the gauge level (angle of 0deg on the digital protractor (H)), the extension rise is compliant. If the gauge cannot be held level (angle of more than 2deg), then the extensions rise more than 10 cm from the centre of the arm pads, and they are not compliant.



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Step 12b: Measure the arm pad angle using the digital protractor (H) by removing it from the extension gauge and placing it on the arm pad. If the angle reads more than 15deg, the arm pads are not compliant.



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Demonstration

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QUESTIONS?

