

DESTINATION Brompton folding bike, 112mm wide, 74mm fork width.

GUIDELINE Never use high-pressure spray washing directly onto the hub. Clean hubs externally with warm water and soap. Periodically clean hub internals (every 12 months in normal and dry conditions, every 6 months in wet conditions and always before leaving the wheel un-used for more than 1 month), see Level 1 instruction.

Warning: Water and moisture stagnant inside hub can permanently damage bearings.

Warning: Use only very soft density pure grease as original Alugrease Super1, medium or hard density grease may cause un-complete pawl engagement and this will seriously damage freewheel mechanism. Most greases contain chemical additives that may damage OR Seals and, most of all, can break the freewheel OR spring.

WARNING:

1) **Micro-Tuner must be on left side of the bicycle.**

2) Incorrect bearing preload may seriously damage bearings/parts and decreases performance.

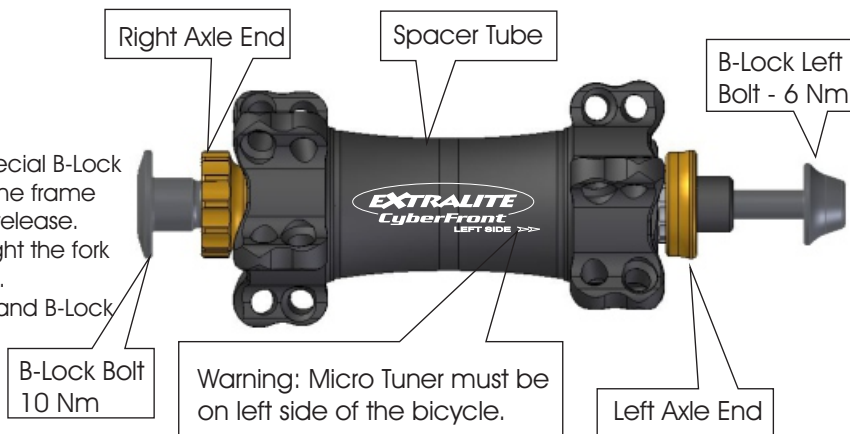
Front Wheel T-Line version

Keep original hook



INSTALLATION

CyberCity 349B features the special B-Lock system to secure the wheel to the frame saving the weight of the Quick release. Left side B-Lock bolt pass through the fork and the original T-Line fork hook. Tighten B-Lock left bolt at 6Nm and B-Lock front bolt at 10Nm.



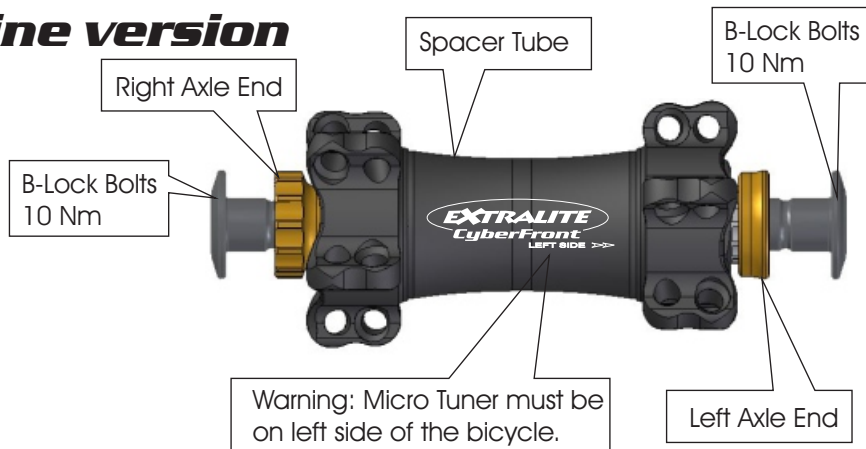
Front Wheel C and P-Line version

INSTALLATION

CyberCity 349B features the special B-Lock system to secure the wheel to the frame saving the weight of the Quick release.

Keep using original or custom Safety Washers between B-Lock bolt heads and fork.

Tighten both B-Lock front bolts at 10Nm



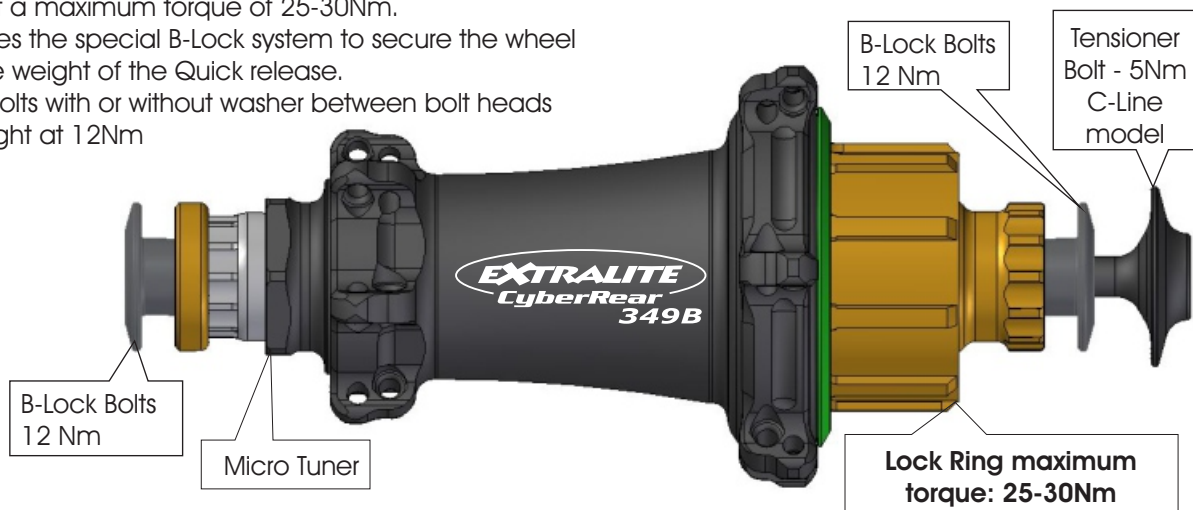
Rear Wheel

INSTALLATION

Install Cog Lock Ring at a maximum torque of 25-30Nm.

CyberRear 349B features the special B-Lock system to secure the wheel to the frame saving the weight of the Quick release.

You can install B-Lock Bolts with or without washer between bolt heads and frame dropouts, tight at 12Nm



BEARING PRELOAD SET-UP:

Optimal bearing preload is important for a long bearing life.

Warning Incorrect bearing preload can damage bearings and freewheel parts additionally decreases hub performance. Micro Tuner comes pre-adjusted from the factory. Do not modify its position if not necessary.

Checking

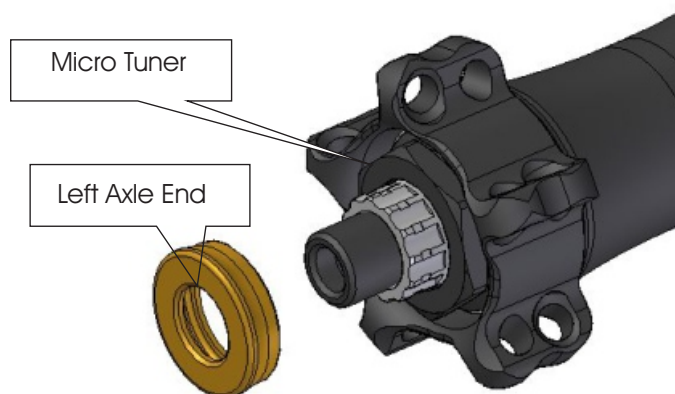
Before modifying bearing preload carefully check the complete wheel as follows:

- 1) Install wheel into dropouts and normally lock B-Lock bolts.
- 2) Check there is no play at rim diameter.
- 3) Leave wheel free to completely stop spinning and carefully control latest instants of movement. Stopping should be very smooth.

Preload Tuning

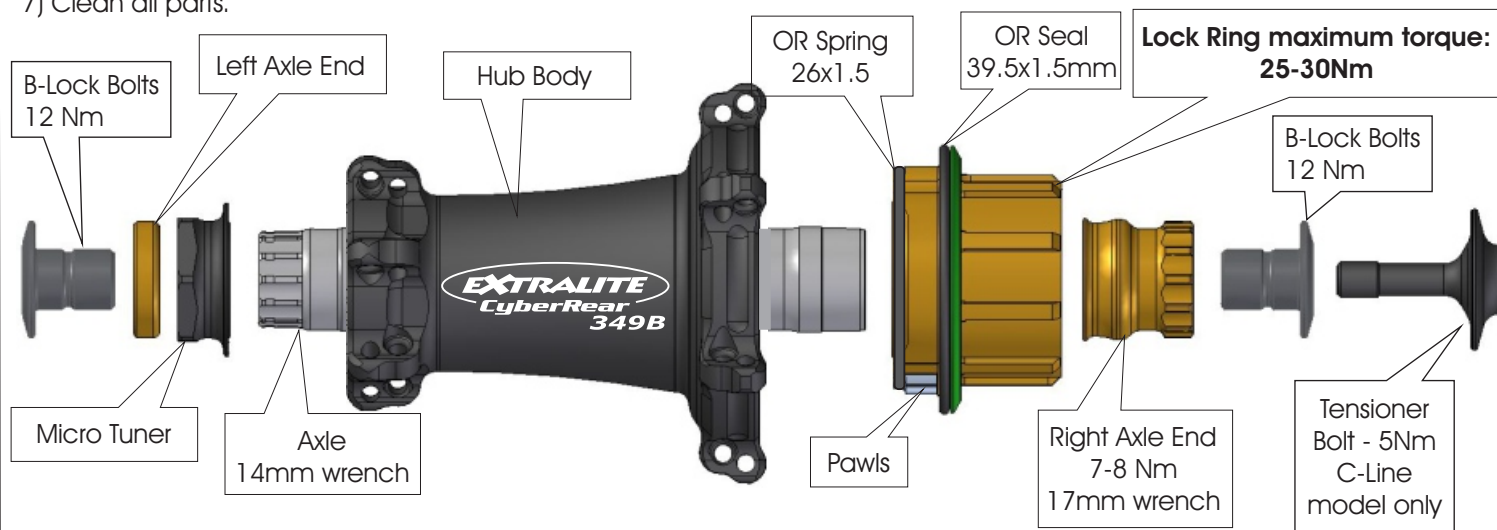
If necessary fine tune as follows.

- 1) Install wheel into dropouts and normally lock skewer.
- 2) If you feel play at the rim turn in Micro Tuner (clockwise). Use a 20mm wrench, very delicate torque and manners.
- 3) Unscrew Micro Tuner for ca 1/4 of turn to release excessive preload on bearing balls and achieve max rolling smoothness.
- 4) Repeat Preload Checking and eventually slightly correct it.
- 5) The optimal bearing preload cancels play at the rim without affecting rolling smoothness.



REAR HUB DISASSEMBLY FOR CLEANING. MAINTENANCE (LEVEL 1).

- 1) Remove Tensioner and B-Lock Bolts
- 2) Extract Left Axle End by pulling it by hands.
- 3) Hold Right Axle End with a 17mm closed hex wrench and fully unscrew and extract Micro Tuner (use a 20mm wrench).
- 4) Hold Axle with a 14mm closed hex wrench and unscrew Right Axle End.
- 5) Pull Freewheel Body and remove it.
- 6) Extract Axle by pulling it from right side.
- 7) Clean all parts.



Lubrification and reassembly

- 1) Slightly grease bearing contact surfaces on Axle.
- 2) Insert Axle from right side gently pushing it with a plastic mallet.
- 3) Temporary screw in Micro Tuner for 2to3 turns only. **Avoid full turning to prevent damages.**
- 4) Grease freewheel area with 2cc. of very soft density grease as original Alugrease Super1. Never use Lithium, additivated grease nor thick grease
- 5) Oil OR-Seal with thin oil. Oils that are thicker than W40 engine oil may increase freewheel resistance.
- 6) Inserting Freewheel body: check the OR seal, OR Spring and Pawls are correctly positioned, carefully press pawls one by one and partially insert freewheel. Check that pawls engage ratchet wheel properly then insert completely. **Do not pinch seal OR**
- 7) Grease threads and tighten Right Axle End at 7-8 Nm.
- 8) Gently push Axle from right side using a plastic mallet.
- 9) Gently fully screw in Micro Tuner and unscrew it for 1/4 to 1/2 of turn to release excessive preload on bearing balls.
- 10) Set-up bearing preload with preload tuning, see chapter above.

EXTRALITE