HyperRear

Features

Destination X-Country use.

HyperRear offers unique features like low friction external OR seals, front engagement freewheel system, multishaped oversized axle, top quality sealed ball bearings, Micro-Tuner bearing preload system, "hart coat" anodized casette body and axle ends.

Use it proper care and its absolute performance will last for years. This manual provides the informations needed for the set up and the basic cleaning-lubing-maintenance.

Dimension for wheel building

Spoke hole Ø: 2.5mm Right flange drilling Ø: 50mm Disc flange drilling Ø: 53.6mm

Center to right flange: 20.5mm Center to disc flange: 34mm

28H

See www.extralite.com to find spoke lengths

Respect 28h or 32h lacing patterns.

maximum spoke tension Disc side 70kgf +/- 10kgf Drive side 120kgf +/- 10kgf

32H



Bearing preload set-up:

Optimal bearing preload is important for a long bearing life. Micro Tuner comes pre-adjusted from the factory. Do not modify its position if not necessary.

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

- 1) Install wheel into dropouts and normally lock skewer.
- 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
- 21mm wrench, very delicate torque and manners.
- 3) Unscrew Micro-Tuner for ca 1/4 of turn to release excessive preload on bearing balls and acheive 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.

Warning Incorrect bearing preload can damage bearings and freewheel parts additionally decreases hub performance.

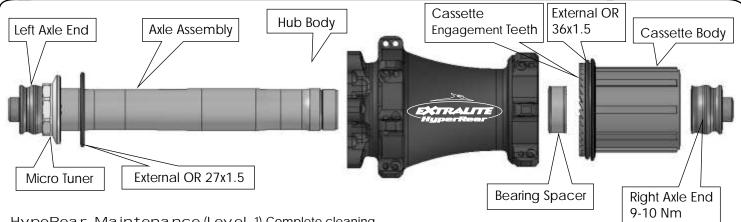
Sea I ing HyperRear hub features low friction external OR seals. However, since it is impossible to completely seal a hub and still have it spin freely, with use water/moisture can get in.

Guidel ine Periodically clean hub internals (every 6-12 months in normal and dry conditions, every 3 months in wet conditions and always before leaving the wheel un-used for more than 1 month) see Level1 instructions next page. Never use high-pressure spray washing directly on hubs. Clean hubs externally with warm water and soap.

WARNINg Un-correct greasing and/or maintenance of freewheel mechanism can lock and destroy it! WARNING Even small debris inside freewheel engagement can damage mechanism permanently.

WARNING Water and moisture stagnant inside hub can permanentely damage bearings.

EXTRALITE



HypeRear Maintenance (I evel 1) Complete cleaning Follow maintenance steps on a clean and well illuminated table since you'll have to handle tiny springs and delicate parts.

Even small debris can compromise freewheel engagement mechanism. Water and moisture stagnant inside hub will damage bearings in few weeks.

Disassembling

- 1) Insert a 5mm hex wrench into Left Axle End.
- 2) Unscrew Right Axle End with another 5mm hex wrench.
- 3) Pull Cassette Body and remove it.
- 4) Extract Bearing Spacer.
- 5) Remove Retainer Ring from Hub Body.
- 6) Remove Floating Ring from Hub Body, you'll find 3 tiny springs on its back side.
- 7) Push out Axle Assembly and completely extract it from disc side.

Cleaning

8) Clean all parts (Do not use aggressive solvents).

9) Clean very carefully Internal Splines, Floating Ring and Cassette Teeth Warning: even small debris can void freewheel engagement.

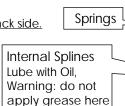
Warning: check wear of Engagement Teeth: minimum teeth height 0.8mm, teeth edges should be sharp. If not replace: Springs/Cassette body/Floating Ring.

Lubrification and reassembling

Warning: use only very soft density grease as original Alugrease Super1

Medium-dense or sticky grease can lock or slow down Floating Ring movement, this can destroy the freewheel mechanism! Chemical additives may damage O-rings.

- 10) Grease Axle on bearing contact areas.
- 11) Fill up Micro Tuner internal face with soft grease.
- 12) Insert Axle Assembly from disc side.
- 13) Insert Bearing Spacer.
- 14) Oil Internal Splines of Hub Body with 1cc w30-50 motor oil.
- 15) Apply a minimlal amount of grease into spring fitting holes on Floating Ring back side, then carefully insert the 3 springs.
- 16) Insert Floating Ring (check again that the 3 springs are in their correct position).
- 17) Fully snap in Retainer Ring (uncomplete/unaligned inserting voids OR seal function)
- 18) Check that Floating Ring moves freely and quickly.
- 19) Apply 1cc of soft grease onto Cassette Engagement Teeth.
- 20) Insert Cassette with External OR in position.
- 21) Tighten Right Axle End at 9-10 Nm.
- 22) Check Preload Tuning (see chapter).
- 23) Install External OR (27x1.5 oiled) between Micro Tuner and bearing.



Retainer Ring

Floating Ring





Extralite products are warranted against defects in materials and/or workmanship for a period of two years from original date of purchase to the original owner only. Any Extralite product that is returned and found by Studio Riva to be defective in materials and/or workmanship will be repaired or replaced at the sole discrection of Studio Riva. This warranty is the sole and exclusive remedy. Studio Riva shall not be held liable for any indirect, special or consequential damages. The warranty is expressly limited to repair or replacement of the product that has been returned and found to be defective by Studio Riva and are the sole remedy of the warranty. No credits or refunds will be issued.

The warranty does not cover: normal wear, tear and fatigue; damage or failure due to accident or collision. Improper assembling, poor maintenance, alterations or modifications, installation of parts not compatible with Extralite products void this warranty. Warranty does not cover damage arising from crash, abuse and/or misuse or any other circumstances in which the product had been subjected to forces or loads beyond its design.

Immediatly replace the component after crash and violent shock, or after continuos heavy use.

Improper use, modification and/or part changing, including surface finishing, could irreparably damage the component.

All labor charges for warranty service are responsability of the product owner.

INSTALLATION WARNING:

Extralite components are extremely performing and lightweight, crafted with very high quality, they request adeguate installation and maintenance care. We strongly recommended that a professional bike shop install and service your Extralite components.

Improper assembly and/or adjustement may significantly compromise strength and durability of the component causing serious personal injury.

Carefully check proper tightening torque of every bolt. Always respect installation recommendations.

Extralite components are designed for a specific use X-Country or Road or Downhill, respect product specific destinaiton.

Note: the rider assumes all the risks regarding use and installation of Extralite components.

