# -HyperCamber 135mm/QR12

# **FEATURES**

HyperCamber offers unique features like optimized drive side flange, 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.

## **DESTINATION** X-Country use.

# DIMENSION FOR WHEEL BUILDING

Spoke hole Ø: 2.5mm Right flange drilling Ø: 87-94mm Disc flange drilling Ø: 53.6mm Center to right flange: 20.5mm Center to disc flange: 34mm

## LACING

See www.extralite.com to find spoke lenghts. Respect 32h lacing pattern.

## 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.

### Checking

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.

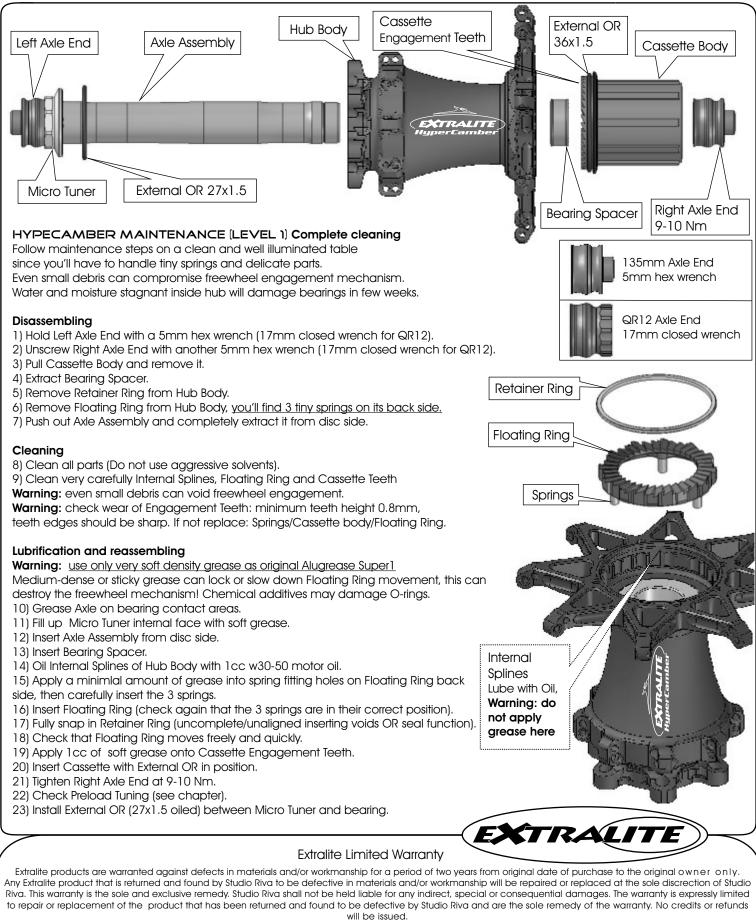
EXTRALITE

**SEALING** 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.

**GUIDELINE** 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 Level 1 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 permanently damage bearings.

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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.