

## 2.2. FREE WHEEL BODY ON THE COSMOS, KSYRIUM EQUIPE, CROSSLAND, CROSSMAX ENDURO, CROSSMAX ENDURO DISC, SPEEDCITY 05 AND COSMIC ELITE 05 WHEELS

### Tools needed

- 1 x 5 mm Allen wrench
- 1 x 17 mm flat wrench
- 1 x 13 mm flat wrench
- 1 x 17 mm socket for torque wrench
- 1 x 5 mm Allen wrench socket for torque wrench

For this type of hub, it is not necessary to disassemble the axle beforehand to replace the free wheel body.

1. Remove the fork support nut on the free wheel side using the 17 mm flat wrench and the 5 mm Allen wrench.
2. Disassemble the FTS-L free wheel body :
  - 2.1. Pull the FTS-L free wheel body towards the exterior until it doesn't move anymore (about 4 mm) ;
  - 2.2. Turn the FTS-L free wheel body and pull it carefully off the hub axle, while holding the pawls and springs,.

**Caution : When you disassemble the FTS-L free wheel body, its pawls and springs are no longer supported and can therefore pop out. This can be prevented by holding the pawls with your hand.**

3. Remove the spring/pawl assembly and clean it.
4. If necessary, replace the lip seal and install it against the nose of the hub, the lip toward the outside. Lubricate the lip with the Mavic mineral oil M40122 ;
5. Lubricate the inside of the FTS-L free wheel body kit in the cog area (fill up 3 notches of the ratchet using Mavic mineral oil M40122) ;
6. Install the spring/pawl assembly (spring fits over the pins of the centering stud on the pawl assembly). Put the springs and then pawl assembly in place, the round side touching the axle. Then pivot the pawl assembly to make sure it functions properly.
7. Install the FTS-L free wheel body kit :
  - 7.1. Put the spacer washer M40067 (available in the kit with 10 parts) inside the FTS-L free wheel body : **The absence of this spacer washer prevents the free wheel body from working properly.**
  - 7.2. Install the FTS-L free wheel body holding the pawl assembly in your hand in the low (springs compressed) ;
8. Install the axle kit as indicated in procedure 2.1.1.



It is recommended to lubricate the free wheel body 1 - 2 times a year or whenever it gets noisy. To do this, follow the above procedure.