


FREE WHEEL BODY FTS KIT M40082 FOR THE CROSSMAX®, CROSSMAX® DISC AND DEEMAX®, WHEELS.
 FREE WHEEL BODY FTS KIT M40082/ M40147 FOR THE COSMIC® EQUIPE, COSMIC® CARBONE, CLASSICS PRO AND HELIUM WHEELS.
 FREE WHEEL BODY M40082 / M40147 FOR THE MR 601 HUB
 FREE WHEEL BODY FTS KIT M40082 / M40083 FOR THE COMETE® WHEEL.

TOOLS NEEDED :

- Two 5 mm Allen wrenches
- One 4 mm Allen wrench
- Two 17 mm flat wrenches for the Deemax® wheel only
- One hub wrench M40123
- Grease
- Mineral Mavic oil M40122

 **For the Crossmax® Disc and Deemax® wheels, disassemble the brake disk adapter beforehand (see pages 68 & 69) with the 4 mm Allen wrench.**

Replacing the axle :

- 1** Loosen
 - one turn the adjustment nut of the bearings with the hub wrench M40123 and a 5 mm Allen wrench or a 17 mm Allen wrench for the Deemax® wheel only.
 - the axle end screw with the two 5 mm Allen wrenches or the two 17 mm flat wrenches for the Deemax® wheel only.
- 2** Remove the axle end screw.
- 3** Remove the free wheel body FTS kit M40082 / M40083 / M40147 :
 - 3.1** Pull on the free wheel body FTS kit in the hub axle towards the exterior until it becomes blocked (about 4 mm)..
 - 3.2** Turn the free wheel body FTS kit in the free wheel side and pull it carefully in the hub axle.

 **CAUTION : THE FREE WHEEL PAWL ASSEMBLY ARE NO LONGER SUPPORTED AND CAN THEREFORE JUMP UNDER THE EFFECT OF THE PAWL SPRINGS. YOU NEED TO HOLD THIS PAWL ASSEMBLY WITH YOUR HAND.**

- 4** Remove the pawl assembly and the springs, clean them thoroughly. Replace the free wheel body FTS kit.
- 5** Lubricate the interior of the free wheel body FTS kit in the cog area (20 - 30 drops of mineral Mavic oil M40122).
- 6** Install the pawl assembly :
 - 6.1** Place the springs (kit M40066) in their socket.
 - 6.2** Place the pawl assembly (kit M40066) in their housing with the centering stud on the spring side. First put the rounded side in contact with the axle, then pivot the pawl assembly.
- 7** Install the free wheel body FTS kit M40082 / M40083 / M40147 :
 - 7.1** Check the spacing washer M40067 is placed inside the free wheel body FTS kit.

 **CAUTION : THE ABSENCE OF THIS SPACING WASHER PREVENTS THE FREE WHEEL FROM FUNCTIONING PROPERLY.**

- 7.2** Install the free wheel body FTS kit M40082 / M40083 / M40147 holding the pawl assembly in your hand in the low position (compressing the springs).
- 7.3** Install and screw the axle end screw with the two 5 mm Allen wrenches or the two 17 mm flat wrenches for the Deemax® wheel only.
Torque : 6 - 8 N.m / 50-70 In.LBS.
- 8** Adjust the bearing free play (install the wheel to the frame and put the bike down on the floor) : The adjuster nut contacts the external face of the bearing when using hub wrench M40123. Repeat this operation if the adjustment doesn't seem to be optimum.

For lubricating : frequency 1 - 2 times per season or when the free wheel body FTS kit becomes noisy.

Follow points 1 - 3 included of the previous procedure.

- 9** Remove the pawl assembly and the springs, clean them thoroughly. Follow once again points 5 - 8 included of the previous procedure.

 **For the Crossmax® Disc and Deemax® wheels, we advise you to replace the lip seal M40163 after installing the brake disk adapter (see pages 68 & 69).**

