

PROCEDURE 4

Steel free wheel body M40082 (HG) 8 and 9 speed or M40147 (CC9) 8 and 9 speed.

TOOLS NEEDED :

- Two 5 mm Allen wrenches.
- Two 17 mm flat wrenches for the DEEMAX wheel only.
- One hub wrench M40123.

SUPPLIES NEEDED :

- Grease.
- MAVIC oil M40122 (Wynn's 220).

For lubricating or replacement :

Frequency : 1 - 2 times per season or when the free wheel body becomes noisy.

- 1 Loosen the axle end screw M40064 / M40143 / M40148 / M40205 / M40237 - M40241 with the two 5 mm Allen wrenches or with two 17 mm flat wrenches (for the DEEMAX wheel only).
- 2 Remove the axle end screw.
- 3 Remove the free wheel body M40082 or M40147 :
 - pull the free wheel body in the axle of the hub toward the exterior until it becomes blocked (about 4 mm).
 - turn the free wheel body in the free wheel direction and pull it **gently** in the axis of the hub. **CAUTION** : the free wheel pawl assembly is 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 If lubricating :
 - 4.1 Remove the pawl assembly and the springs, clean them thoroughly.
 - 4.2 If replacing : Remove the pawl assembly and springs. Clean them, **if necessary**. Replace the free wheel body.
- 5 Lubricate the interior of the free wheel body in the clogged area (20 - 30 drops of MAVIC oil M40122).
- 6 Mounting the pawl assembly :
 - 6.1 Put a dab of grease in the spring socket to secure them in the hub body.
 - 6.2 Place the springs (kit M40066) in their socket.
 - 6.3 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 Mounting the free wheel body M40082 or M40147.
 - 7.1 Check that the spacing washer M40067 is placed inside the free wheel body.
NOTE : Its absence prevents the free wheel from functioning properly.
 - 7.2 Mount the free wheel body M40082 or M40147 by holding the pawl assembly in your hand in the low position (compressing the springs).
 - 7.3 Mount the axle end screw M40064/ M40143/M40148/M40205/M 40237 - M40241 with the two 5 Allen wrench or M40175 with the two 17 mm flat wrenches (for the DEEMAX wheel only).
- 8 Screw the axle sub-unit with the axle end screw (torque 6 - 8 Nm).
- 9 If necessary, adjust the bearing free play (to be done on the fork of the bike) : install the brake nut on the outer ring of the bearing with the hub wrench M40123. Repeat the operation if the adjustment does not seem to be optimum.

