

# Installing "Rohloff 500/14" (complete) axle ring assembly kit.

This simple foolproof step by step guide will ensure minimum fuss and correct installation of the above item.

Tools required:- 17mm cone wrench or open end wrench, T20 Torx driver, 8mm wrench.

## Caution! :-

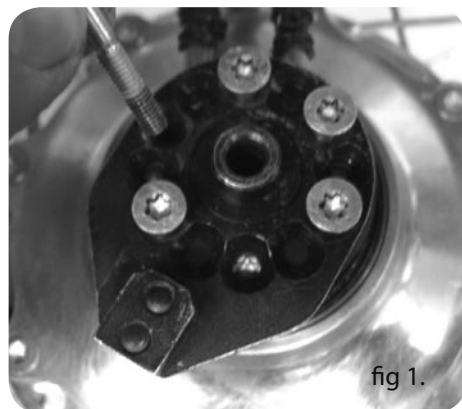
Throughout this procedure the wheel must NOT be laid on the axle ring side once the redundant axle ring has been removed, because:-

**A)** Oil could leak out of the holes (in the hub)

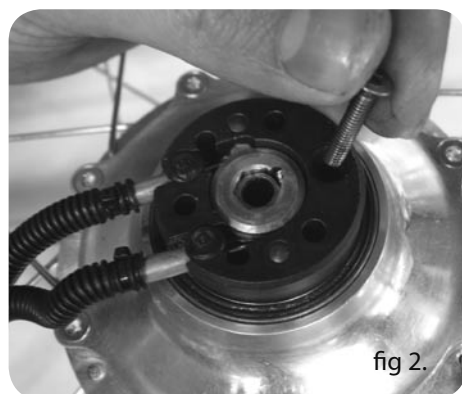
**B)** The two freewheel springs could fall out of the locating peg holes; (the hub will malfunction without these springs!!)

## Removing redundant axle ring assembly:

1. Remove rear wheel from cycle.
2. Remove the skewer from the wheel.
3. Whilst holding axle ring assembly, using T20 Torx driver remove all (M4x25-Torx T20) bolts and axle plate. (see fig .1)

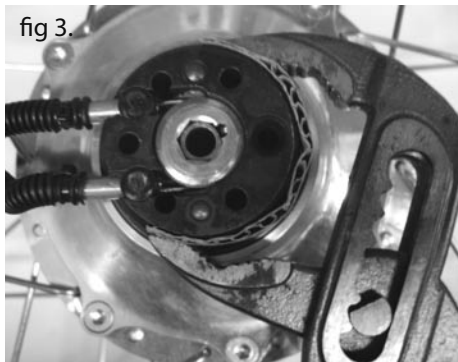


4. Lie the wheel on a flat surface (sprocket side down) with axle ring facing up. Remove the single axle ring bolt (M4x20-Torx T20) from axle ring assembly (if applicable to your hub). (see fig. 2)



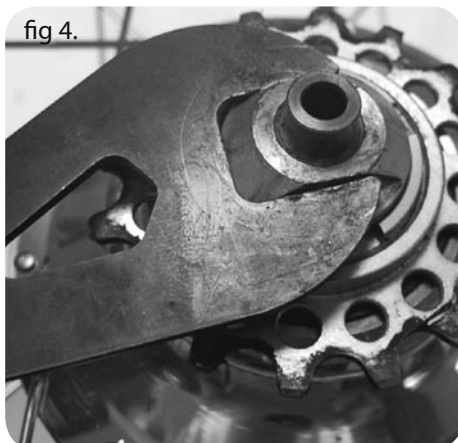
Rock the axle ring assembly from side to side whilst pulling it upwards in order to loosen it from the hub. Discard old paper gaskets.

**Tip:- Should the axle ring not loosen by hand, use a pipe wrench to hold the axle ring tight (place cardboard between the axle ring and the pipe wrench). Rock the axle ring from side to side with the pipe wrench, whilst pulling it upwards in order to loosen it from the hub. (see fig. 3)**



## Installing new axle ring assembly:-

5. Hold axle steady using a 17mm cone/open end wrench on the aluminium nut (sprocket side). (see fig.4)

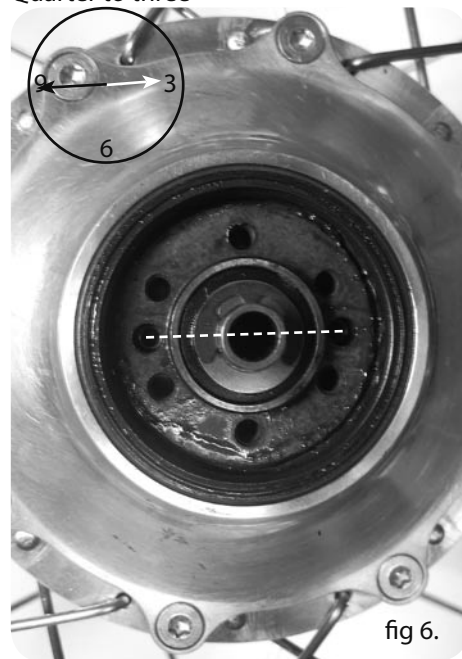


6. Whilst holding aluminium axle nut, using an 8mm wrench turn hexagonal peg (axle ring assembly side) fully clockwise until end stop. The hub is now in 1st gear. Now turn hexagonal peg back anticlockwise 6 clicks. The hub will now be in 7th gear. (see fig. 5)

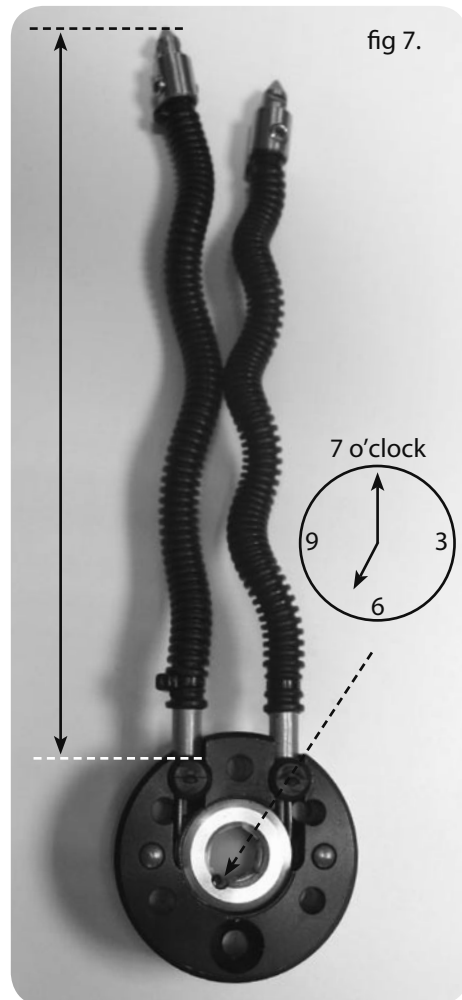


7. Orientate the hub so that the two locating peg holes (containing freewheel springs) are at quarter to 3 position (indicated) (see fig. 6)

Quarter to three



8. Holding axle ring assembly, pull left cable until the groove within brass cable pulley is in seven o'clock position. The brass cable pulley will now be in the 7th gear position. (The left cable will measure 145mm between end of male bay nut connection and plastic pin within axle ring) (see fig. 7)



**9.** Transfer the (new) axle ring assembly onto hub. (including new gaskets)

Making sure:-

a) The pair of pegs beneath the axle ring locate into peg holes (containing free-wheel springs)

b) The hexagonal peg sits correctly within the hexagonal hole of the brass cable pulley. The groove in brass cable pulley should still be in the seven o'clock position! (see fig.8) Note:- It may be necessary to alter the position of the brass cable pulley left or right by a minimal amount, to aid installation.

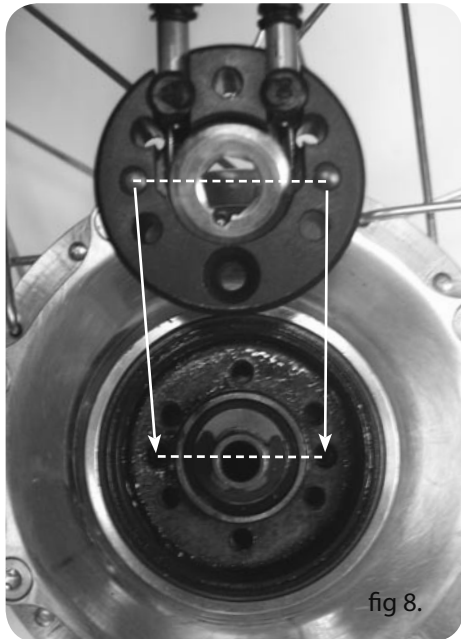


fig 8.

**10.** Install axle ring assembly fixing bolt. (see fig 9) (if applicable to your hub)

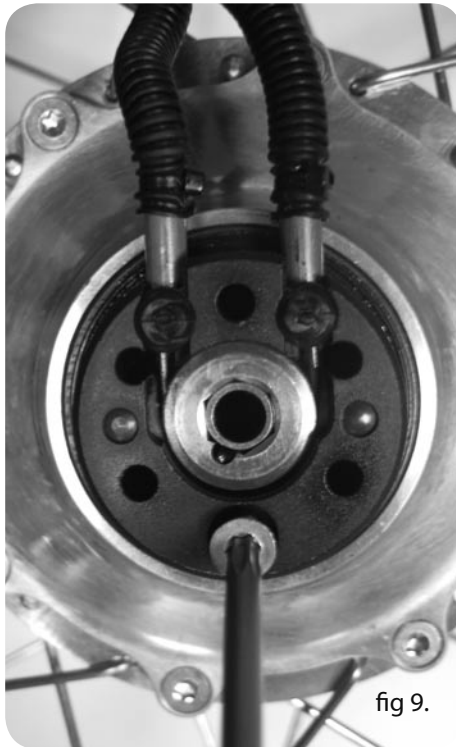


fig 9.

**11.** Place axle plate on top of newly installed axle ring assembly, orientating it into correct position. (see fig. 10) Now finally install the 5 fixing bolts.



fig 10.

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