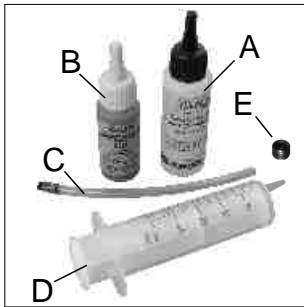




## 1. Oil change

An oil change should be annually carried out or at least every 5000km. Through this process it can be safe to say that there will always be enough oil in the hub regardless of oil loss (due to sweat oil) and that any penetrated water will be rinsed out.

For a problem-free oil change we recommend the use of the *Rohloff* Oil Change Kit (Part No. 8410).



The Oil Change Kit consists of:

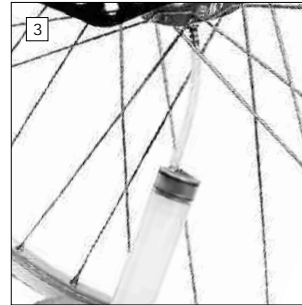
- A** 25ml cleaning oil in a 50ml bottle\*
- B** 25ml *Rohloff* **SPEEDHUB OIL**
- C** Oil filling tube
- D** Non returnable syringe 50ml
- E** Drain screw with new seal

The oil filling tube should be placed over the syringe and secured with a drop of super-glue before use.

### POINTER



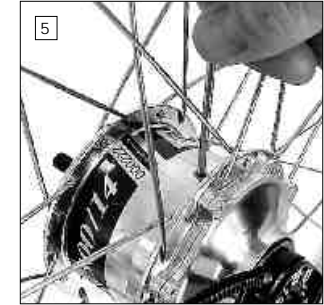
\* There will already be approx. 25ml fluid in the hub (old oil and any penetrated moisture). After the cleaning oil is also filled into the hub then there will be approx. 50ml fluid to drain out. For this reason the cleaning oil comes in a 50ml bottle so that the old fluid can be drained out into this bottle for safe disposal.



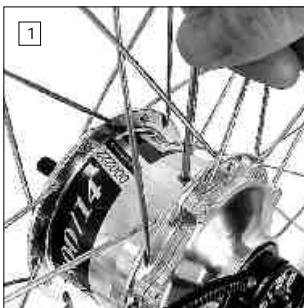
Remove the drain screw (3mm allen key) and refit the filling tube and syringe. Turn the wheel, so that the filling point is underneath the hub. Wait approx. 15min with the wheel in this position, then use the syringe to draw out the old fluid. Remove the syringe and filling tube, use this to pour the fluid into the 50ml cleaning oil bottle.



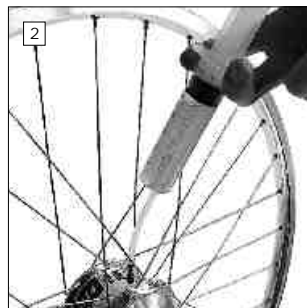
Draw 25ml *SPEEDHUB OIL* into the syringe and insert it into the hub. Draw out approx. 25ml of air to keep the pressure correct inside and therefore, avoid oil seeping back out, when removing the filling tube.



Fit the new drain screw using a drop of loctite (eg Loctite 511) and screw in tight (3mm allen key, tightening torque 0.5Nm/4in.lbs.).



To change the oil, the *Rohloff* **SPEEDHUB 500/14** should be left at room temperature (because the oil flows better). Turn the hub, so that the drain screw can be seen on the top. Remove drain screw (3mm allen key).



Draw the 25ml cleaning oil into the syringe, screw the filling tube into the drain screw hole and fill the cleaning oil into the hub. After this, use the syringe to draw out a little air out into the syringe. Remove the filling tube and refit the drain screw.

To rinse the hub properly, ride approx. 1km or turn the wheel by hand using the cranks for approx. 3min, whilst simultaneously switching between gears #3 and #5. In these gears all planetary gear sets are in use, making sure that the cleaning fluid is well rinsed through in order to thin out the old oil for easier removal.

### ATTENTION



The *Rohloff* **SPEEDHUB 500/14** must be filled exclusively with *Rohloff* oils (gear box/cleaning oils). The use of other types of lubricants and/or cleaning fluids could lead to the damage of the inner mechanism's nylon components.

Used oil should be taken to a specialized oil disposal point, so as to keep pollution levels down.

*Rohloff* **SPEEDHUB OIL** and cleaning oil can be disposed of together with other motor oils.

