technical information

RITCHEY BICYCLE COMPONENTS

Ritchey WCS LTD (DT Swiss style) Rear Hub Service Instruction

(Road & MTN models: WCS LTD Protocol – WCS LTD Girder)

Tools required

- Hammer
- DT Swiss bearings tools
- Grease
- Axle vice

1. Remove the axle-ends

Both the axle-ends are pressed into the hub. It is not required any special tool to remove them.

2. Remove the FH-body from the hub

BE CAREFUL! Pay attention not to lose the springs, the washer and the drive gears

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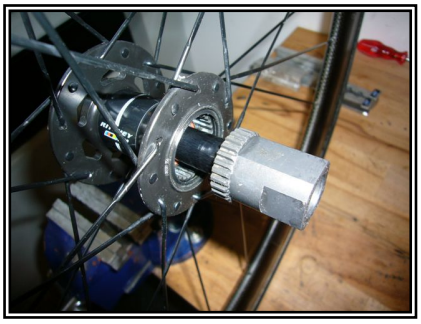

3. Remove the hub bearings ring nut

Counter clockwise – unscrewing
Clockwise – screwing

DT Swiss bearings tools are required

BE CAREFUL! Pay attention not to lose the washer (usually stuck to the tool)

4. Remove the hub bearings

Remove first the bearing of the hub drive side pushing out the axle as shown in the picture. Then remove the non-drive side bearing.

Control the state of the hub bearings. If they are damaged or worn out we suggest to replace them.

DT Swiss bearing bearings tools are suggested

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5. Replace the new hub and FH-body bearings

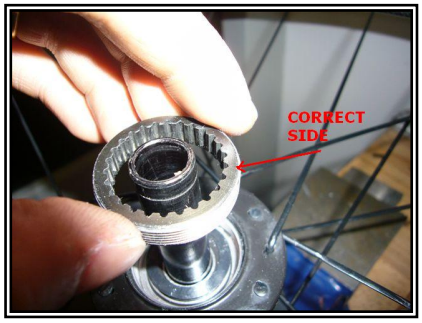
Place the bearings carefully, pressing them in position applying the force only to the external ring of the bearing. If a sealed bearing installation tool is not available, a socket tool with the same diameter as the bearing can be used, however, bearing alignment is very crucial for proper bearing operation and longevity, so extreme care must be used. Remember to install axle before installing the second bearing! Be sure that all hub shell and axle bearing surfaces are clean and dry before installing new parts.

DT Swiss bearing bearing tools are suggested

6. Assemble the FH-body

Control that the parts have been placed on the correct side.

- Insert the washer
- Assemble the ring nut
- Assemble the steel ring
- Insert the clutch (springs, wahser and drive gears)
- Add greas as shown in the pictures
- Assemble the FH-body



DT Swiss bearing bearing tools are required

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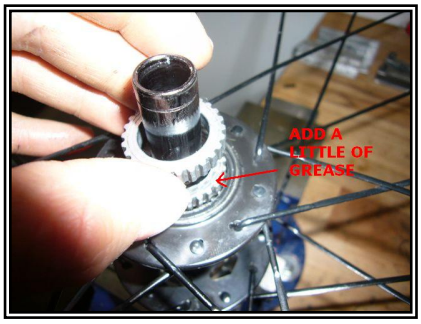

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7. Assemble the axle-ends

Assemble the hub-ends using a hammer