

**Product**

Exploded View

Disassembly & assembling



Frontfork

# 5060 Extreme

Introduction	2
Exploded view	3
Disassembly forkleg	4
Disassembly cartridge	17
Disassembly rod tap rebound / compression	22
Assembling rod tap rebound / compression	25
Disassembly tap compression	26
Assembling tap compression	30
Disassembly screw-cap	31
Assembling screw-cap	32
Assembling cartridge	33
Assembling forkleg	38

## Workshop manual

5060 Extreme

Product

Exploded View

Disassembly & Assembling



## Introduction

### General notice

Pay attention to the following notes, when you are working with WP Suspension products as described in this workshop manual.

Always use clean and professional tools.  
Regular you need next to the general equipment, the special tools of WP Suspension.  
These tools with a unique "T" number (available by WP Suspension) protect you from damaging the parts.

Use always aluminium protector-plates.

Replace always damaged or worn parts.

Clean all parts before assembling.

#### **Caution:**

Many times it is necessary to assemble parts with T131, T132 and T163.

These parts must to dry for at least four hours!!



## Disassembly forkleg

Note the position of rebound / compression.



Clamp the inner-tube in the vice with T903S.





Disassemble the screw-cap.



Remove the screw-cap.



Check the rubber sealing ring inside.



Let the inner-tube down into the outer-tube.



Remove the spring retainer, preload spacers and steel washer.



- steel washer
- preload spacers
- springretainer



Remove the spring.



Check the oil level with T137S.  
Slide the O-ring on level with the edge of  
the compressed inner-tube.



Drain the oil out the forkleg.



Clamp the axle-clamp in the vice so that the forkleg is about a 45 degrees angle.



Unscrew the bolt out of the axle-clamp.



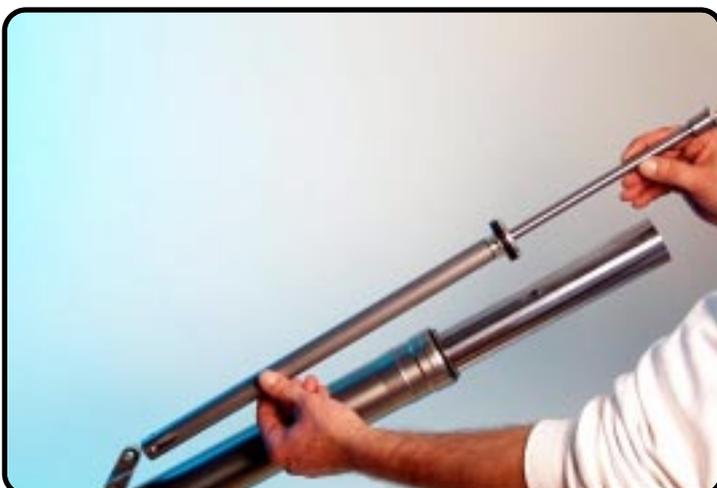
Copper washer and bolt.



1. Pull out the cartridge.



2.



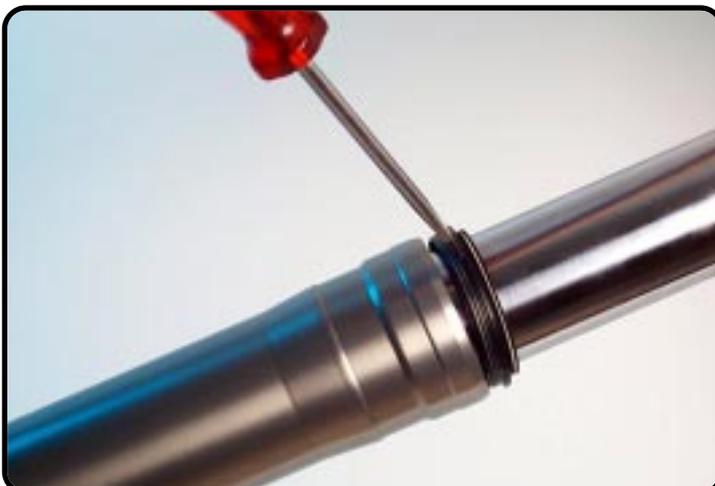
3.



Remove the steel washer.  
**Pay attention to the assembling direction!!!**



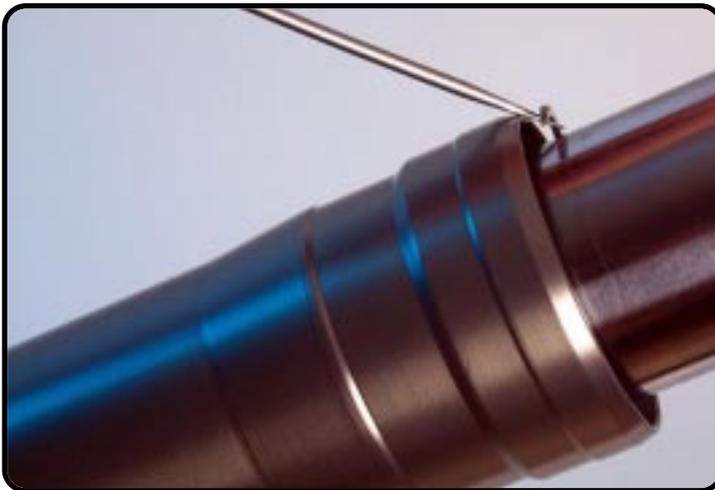
Hold forkleg up side down and remove the house hydraulic stop.



Disassemble the dust wiper.



Remove the dust wiper.



Disassemble the lock washer.



Remove the lock washer.



Heat the outer-tube near the oilseal.



Pull with both hands the inner- out the outer-tube.



Remove the oilseal.



Remove the support ring.



Remove the DU-bush outer-tube.



Disassemble the DU-bush of the inner-tube.



- dust wiper
- circlip
- oilseal
- support ring
- DU-bush outer-tube
- DU-bush inner-tube



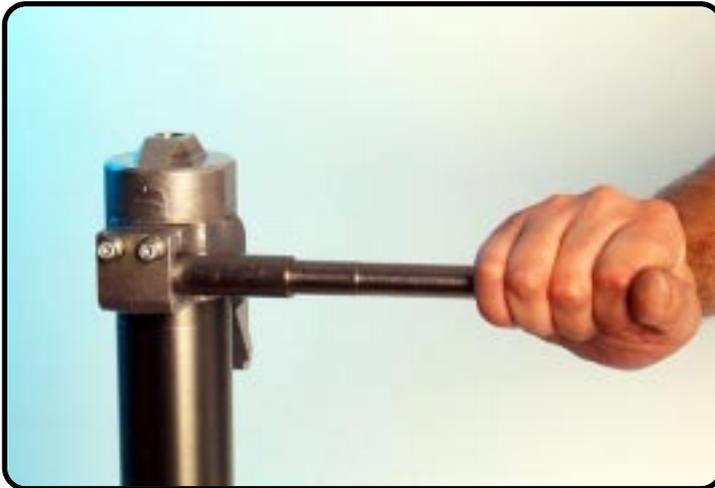
Assemble T904S into the outer-tube.



Clamp the outer-tube in the vice and heat the axle-clamp.



Place a fitting axle-rod in the axle-clamp and tighten both bolts.



Unscrew the axle-clamp.



Remove the axle-clamp.

**Workshop manual**

5060 Extreme

Product

Exploded View

**Disassembly & Assembling**



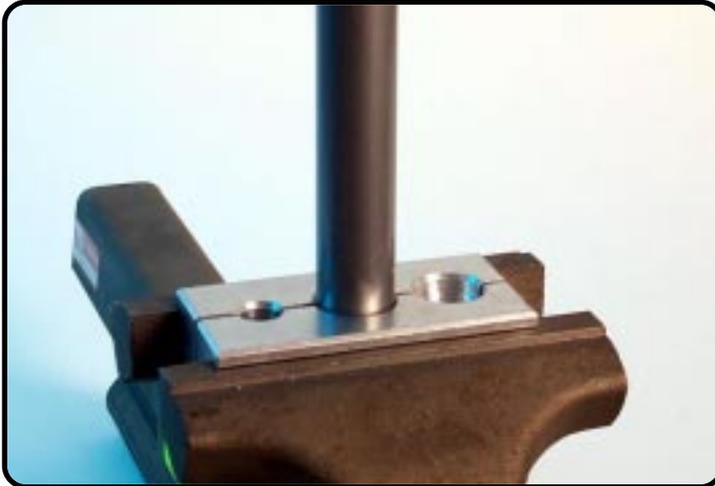
Lift the O-ring out the groove of the axle-clamp.

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Frontfork 5060 Extreme



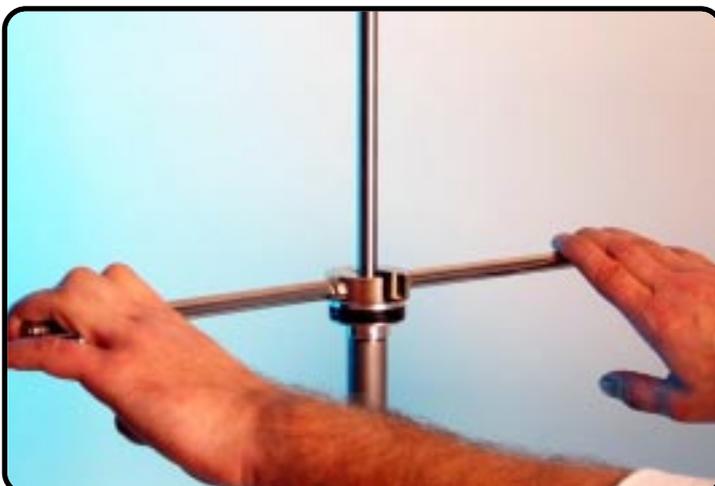
## Disassembly cartridge



Clamp the tube of the cartridge in T639S.



Assemble T907S on the screw-cap.



Unscrew the screw-cap.



Pull the piston-rod out of the tube.



By removing, pay attention to the piston ring.



Clamp the piston-rod in T639S.  
Keep sufficient distance with the vice.



Unscrew the rod tap from the piston-rod.



Remove the rod tap.



Remove the rebound spring.



Remove the screw-cap.



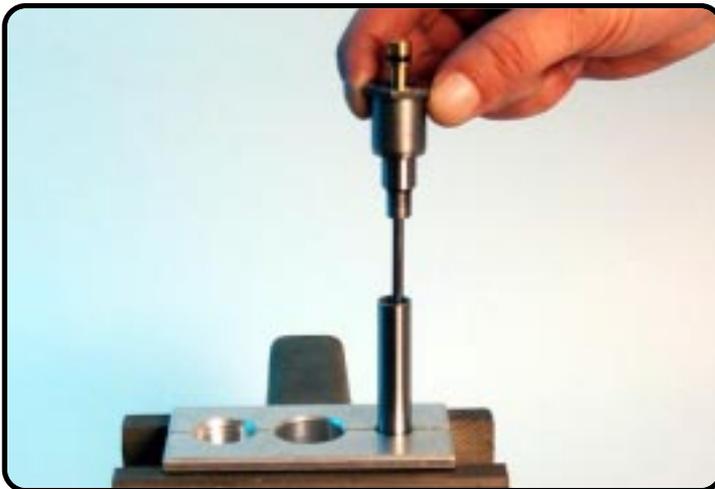
Clamp the piston-rod in, on the other side in the vice.



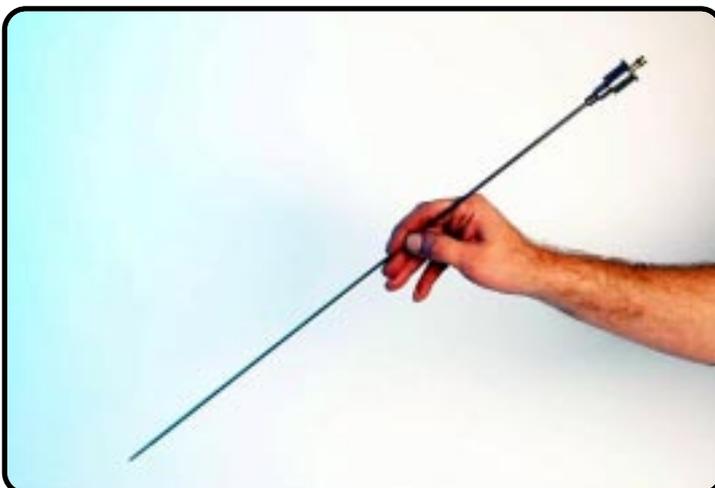
Unscrew the piston-rod adaptor.  
(size 22)



The piston-rod adaptor compression.



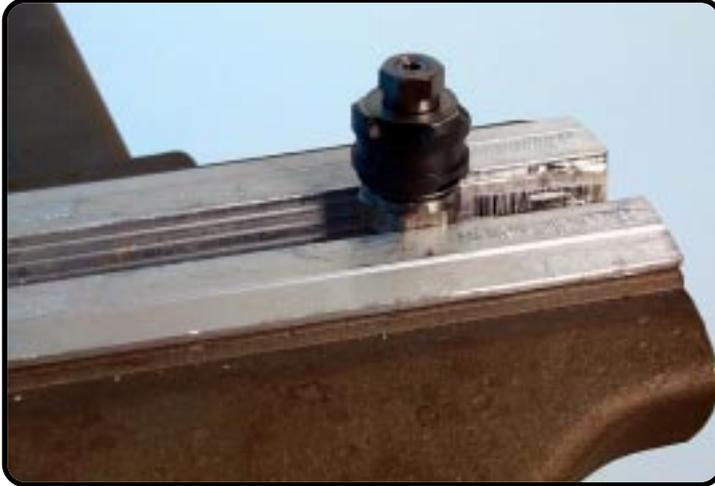
Unscrew the piston-rod adaptor.



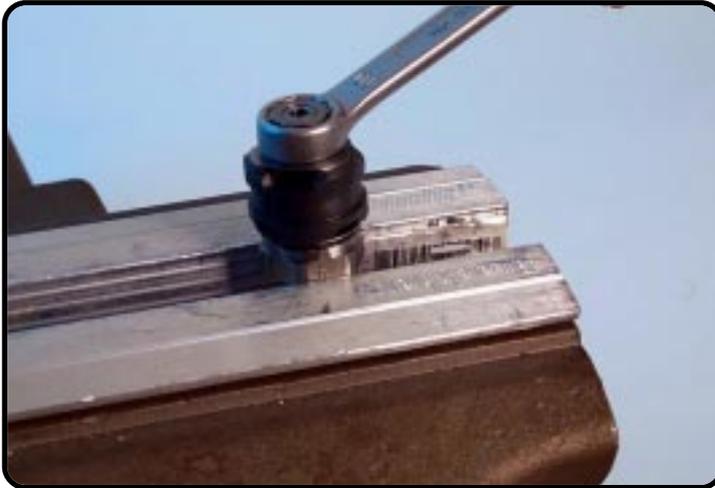
The piston-rod adaptor rebound.

## Disassembly rod tap

Clamp the rod tap in the vice.

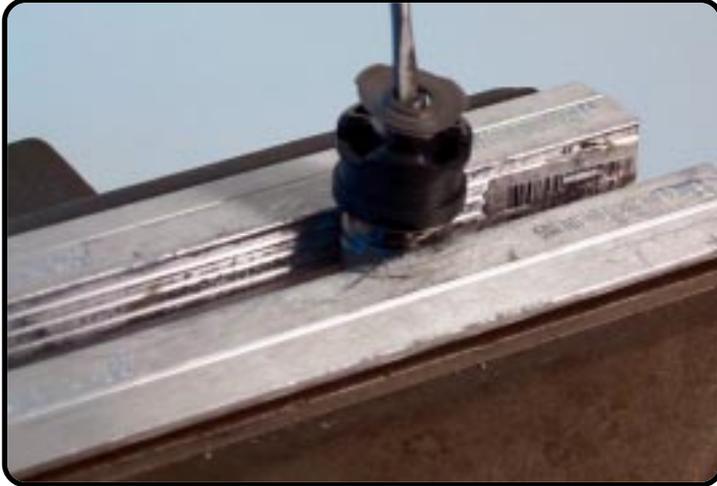


Unscrew the nut. (size 10)  
Pay attention to the position of the  
triangular shims and the assembling  
direction of the nut!!!

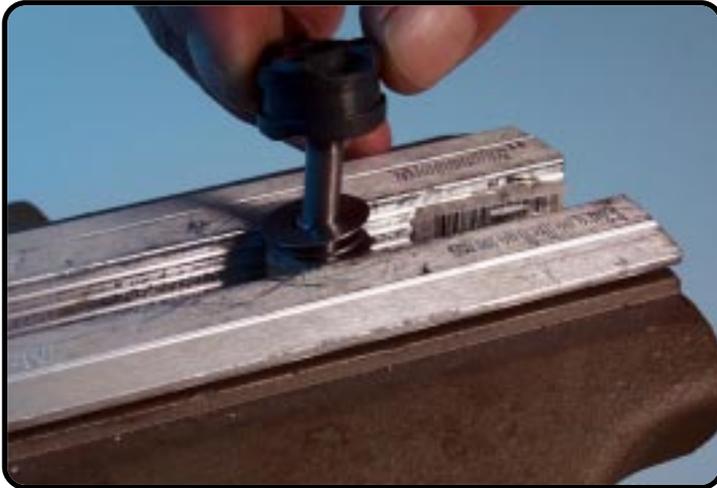


Remove the nut.





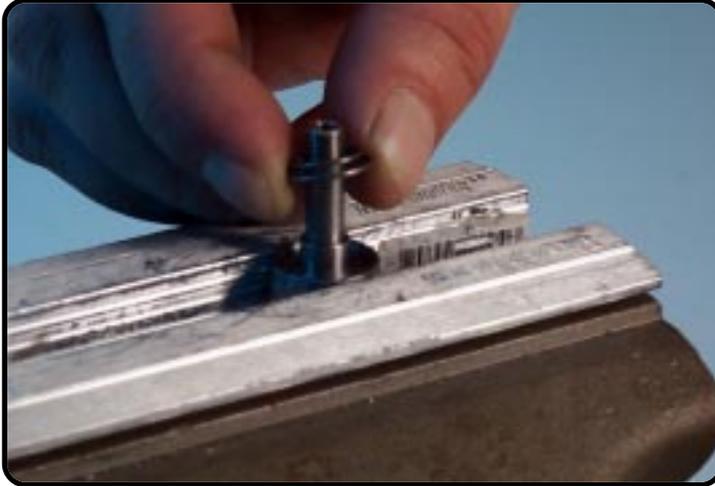
Place a screwdriver on top of the rod tap and remove the entire shim packet.



Remove the piston.  
Pay attention to the assembling direction!!!



Disassemble the shim for check-valve.



Remove the spring for check-valve.  
Pay attention to the assembling  
direction!!!



- rod tap rebound / compression
- spring for check-valve
- shim for check-valve
- piston
- piston ring
- rebound shims
- nut M6x0.5 rebound.

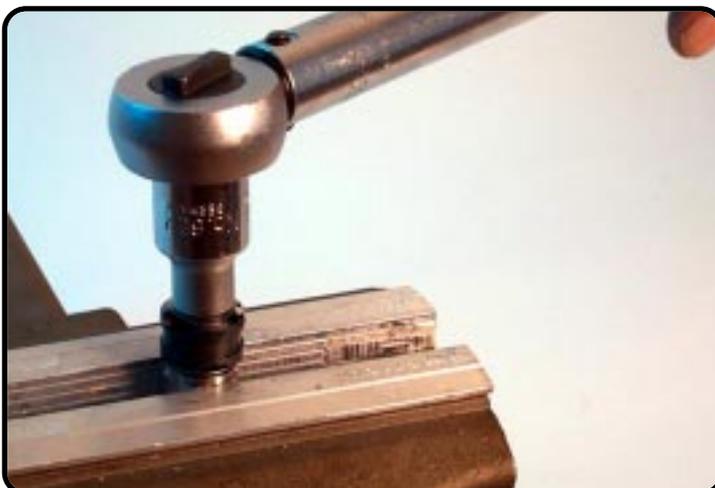
## Assembling rod tap



Assemble the spring for check-valve in the chamber of the rod tap.



Assemble the shim for checke-valve, piston and rebound shims.



Tighten the nut to a torque of 5Nm.

## Disassembly tap compression

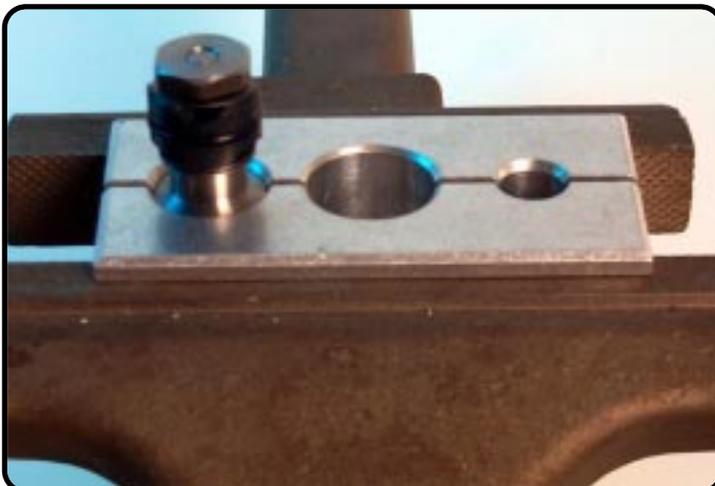
Push the tap compression out the tube with support of the piston-rod.



Tap compression.



Clamp the tap compression in the clamping block.





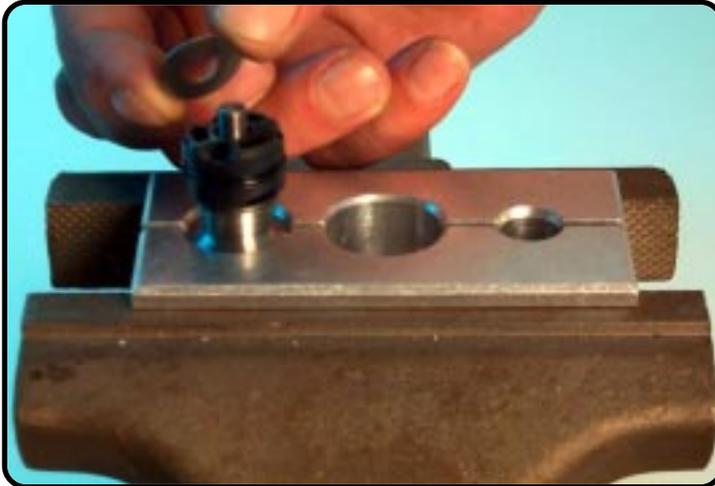
Unscrew the check-valve nut (size 17).



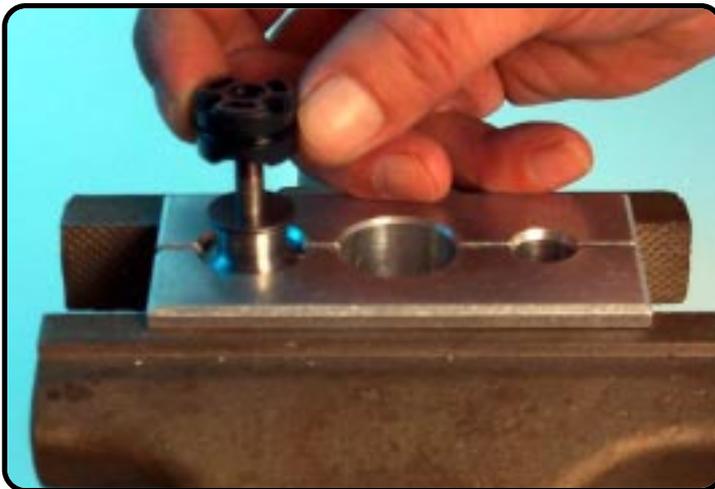
Remove the check-valve nut.



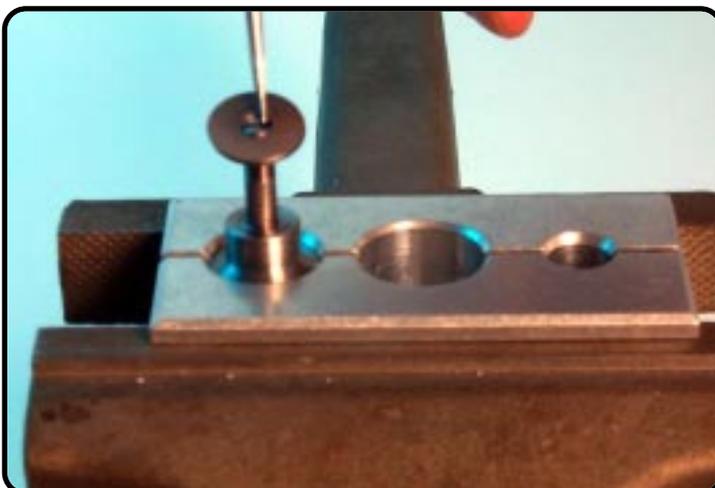
Remove the spring for check-valve.  
Pay attention to the assembling  
direction!!!



Remove the shim for check-valve.



Remove the piston and check the O-ring.  
Pay attention to the assembling direction!!!



Place a screwdriver on top and remove the entire shim packet.

**Workshop manual**

5060 Extreme

**Product**

**Exploded View**

**Disassembly & Assembling**



- tap compression
- compression shims
- piston with O-ring
- shim for check-valve
- spring for check-valve
- check-valve nut

## Assembling tap compression

Replace the piston with O-ring and the shims on the tap.



Assemble the shim and spring for check-valve.



Tighten the check-valve nut to a torque of 5Nm.

Check if the spring is assembled in the chamber of the nut.

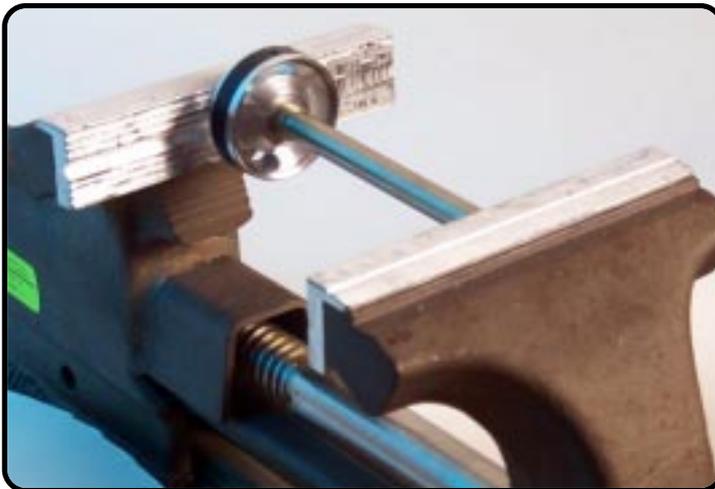


## Disassembly screw-cap

Use T619 to press the DU-bush out the screw-cap with support ...



...of the vice.



## Assembling screw-cap

Assembling the DU-bush with support of...



...the vice.



## Assembling cartridge



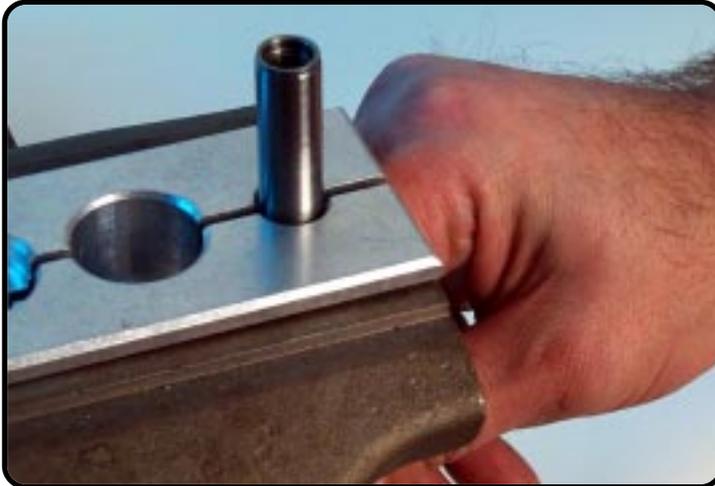
Grease the O-ring of the piston with frontfork oil.



Assemble the tap compression into the tube.



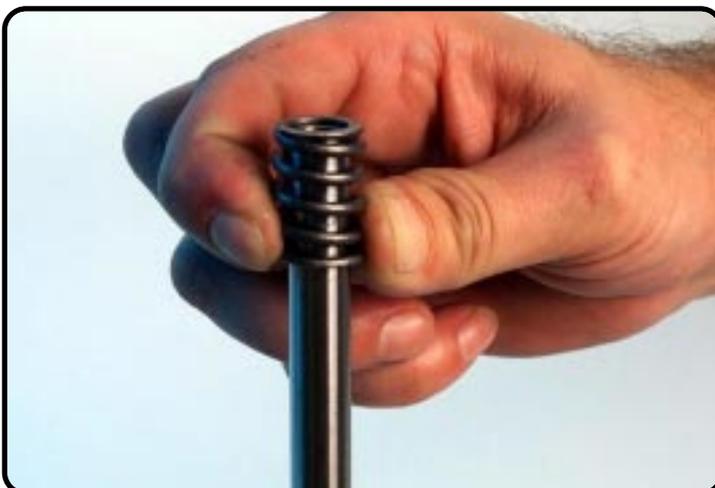
Push with support of the piston-rod the tap compression till the springing.



Clamp the piston-rod with the bevelled edge on top in the clamping block.



Assemble the screw-cap with steel washer.  
Pay attention to the assembling direction!!!



Replace the rebound spring.



Assemble the rod tap.



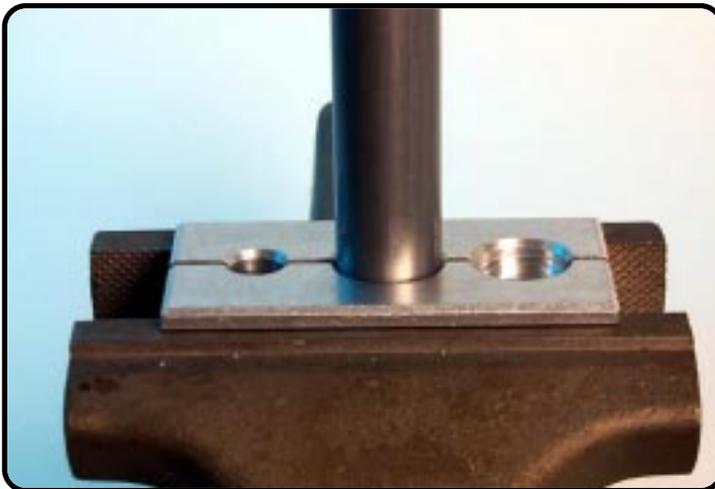
Tighten the rod tap.



Clamp the piston-rod in on the other side and screw in the piston-rod adaptor.



Tighten the piston-rod adaptor.



Clamp the tube in the clamping block.



Assemble the piston-rod "complete" with piston ring into the tube.



Assembling screw-cap.



Tighten the screw-cap.

## Assembling forkleg

Replace a new O-ring in the groove of the axle-clamp.



Wetting the thread of the inner-tube with T132.



Wetting the thread in the axle-clamp with T132.





Clamp the outer-tube with T904S inside in the clamping block and assemble the axle-clamp.



Assemble the axle rod and...



...tight firmly the axle-clamp.



Assemble the DU-bush on the inner-tube and clamp the (axle-clamp) outer-tube in the vice.



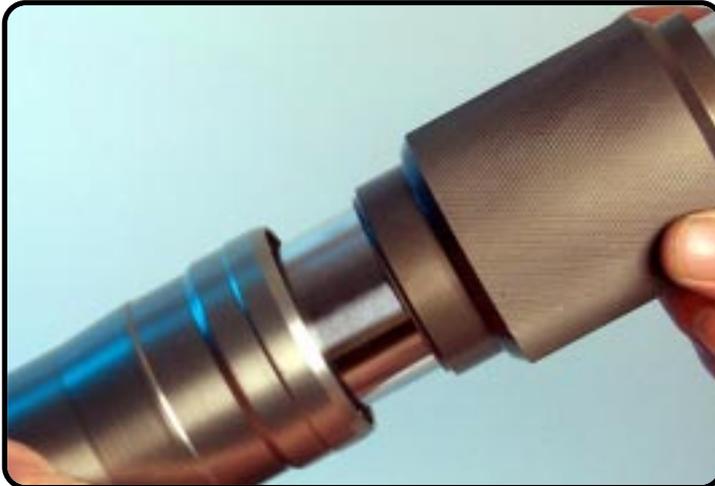
Slide the inner-tube slowly in the outer-tube.



Assemble the DU-bush outer-tube.



Use T902 -flat side- to tap or push the DU-bush in the outer-tube



Tapping the DU-bush into the outer-tube.



Replace the support ring.



Place T901 on top into the inner-tube.



Dip in oil or grease the entire oilseal with frontfork oil.



Slide the oilseal over the inner-tube.



Assemble the oilseal with the other side of T902 into the outer-tube.



1. Assemble the circlip into the groove.



2.



Grease the innerside of the dust wiper with frontfork oil.



Slide the dust wiper on the inner-tube.



Tapping the dust wiper into the outer-tube.



Release carefully the air between the assembled dust wiper and outer-tube with a small screwdriver.



Let inner-tube completely down in the outer-tube and assemble the hydraulic house.



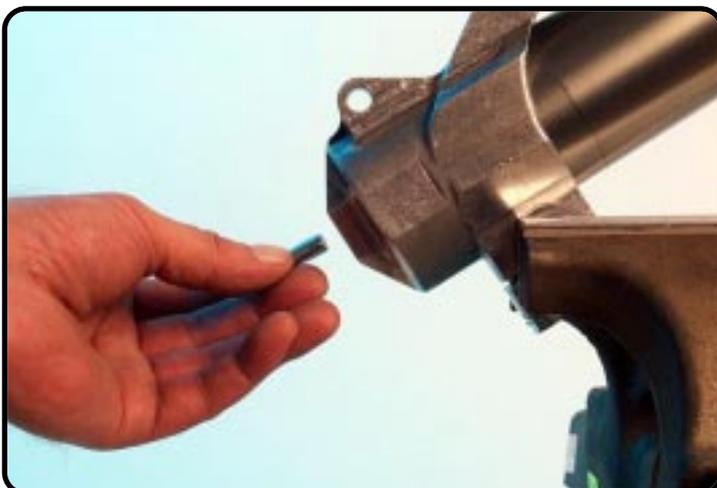
Replace the steel washer. Pay attention to the assembling direction!!!



Assemble the cartridge into the forkleg.



*In case of a older type of screw-cap, use T905 for assembling.*



Assemble the bolt with a new copper washer.



Tighten the bolt to a torque of 22Nm.



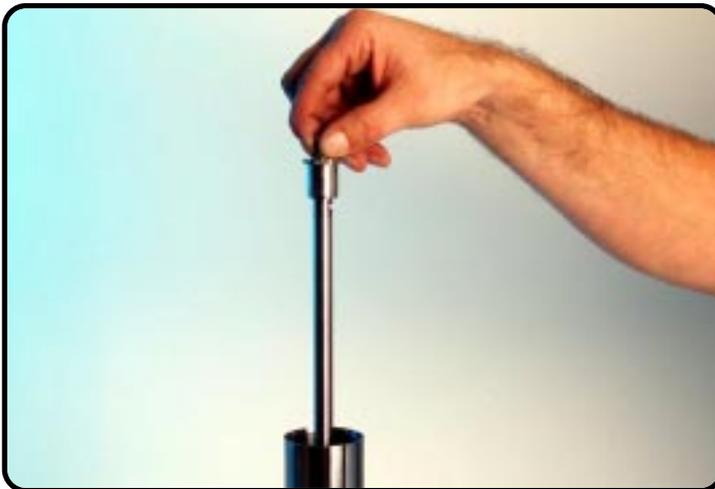
Assemble the forkleg in the vice.



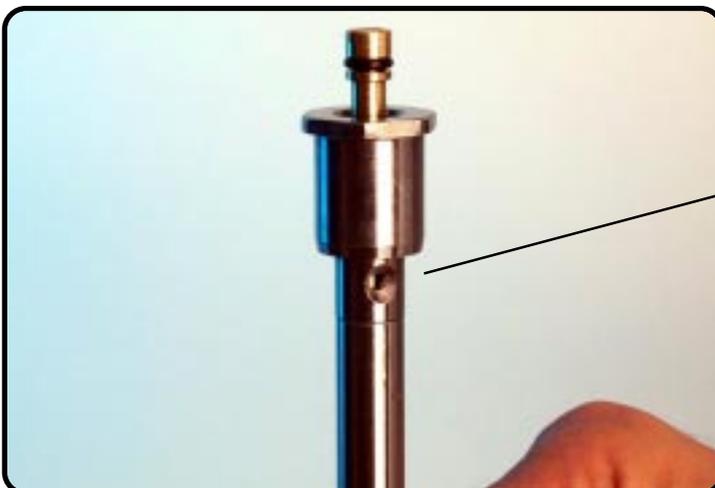
Fill the forkleg with oil just under the edge of the fully compressed inner-tube.



Moving the inner-tube 'not too high', up and down.



Move the piston-rod several times up and down, until you feel that all air is bled out.  
(The damping is smooth over the entire stroke)



Rebound side: Oil is coming through this hole.



Adjust T137S on level.



Hold the hexagonal upper side of the piston-rod exactly level with the edge of the fully compressed inner-tube. Also the O-ring of the bottle. Remove the oil till the correct level.



Replace the spring with the conical side under.



Assemble the spring.



Replace the steel washer and the preload spacers.



Assemble the spring retainer



Pull the inner-tube up.



Screw the screw-cap into the inner-tube.



And tighten the screw-cap to a torque of 25Nm.

**Workshop manual**

5060 Extreme

Product

Exploded View

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Position REB / COM!

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Frontfork 5060 Extreme

