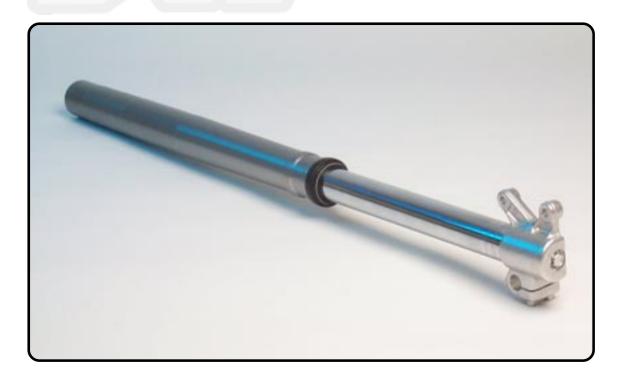
4054 MXTA



Product Exploded View

Disassembly & Assembling



Frontfork

4054 MX Top Adjuster

Introduction 2	
Exploded view 3	
Disassembly forkleg 4	
Disassembly cartridge 19	3
Disassembly rod tap renound/compression 24	1
Assembling rod tap rebound compression 27	7
Disassembly tap compression 28	3
Assembling tap compression 32	2
Disassembly screw sleeve 33	3
Assembling screw sleeve 35	5
Assembling cartridge 37	7
Assembling forkleg 42	2

4054 MXTA

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.

Always use aluminium protector-plates, when clamping our products or parts in the vice.

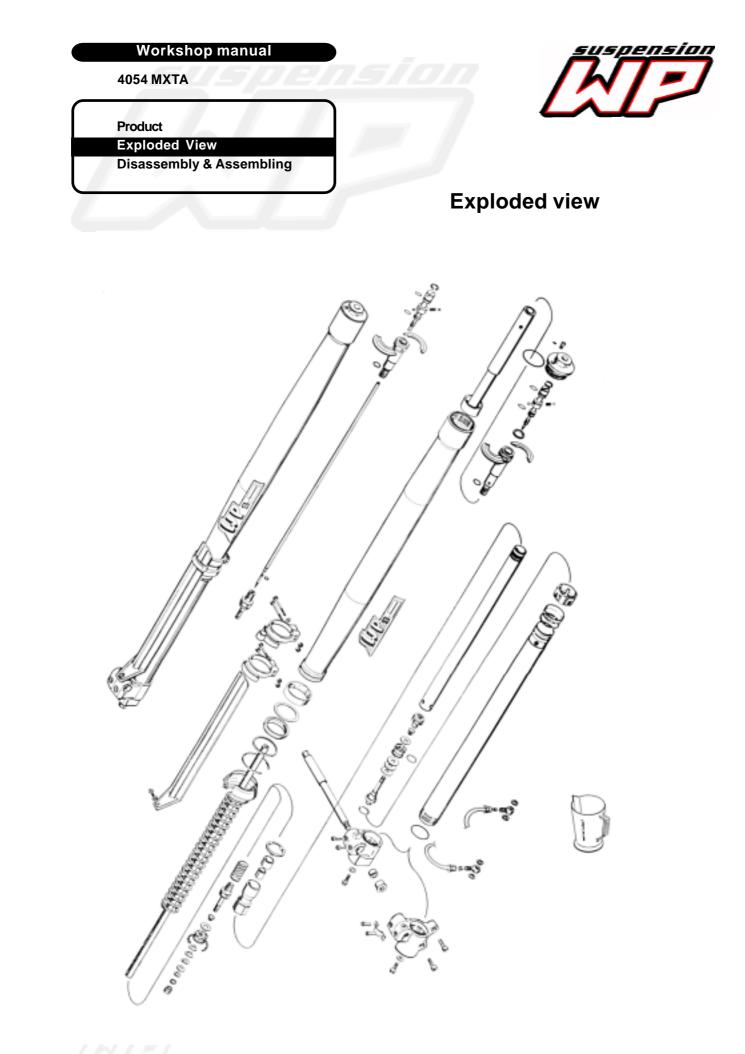
Replace always damaged or worn parts.

Clean all parts before assembling.

Caution:

Many times it is necessarry to assemble parts with T131, T132 and T163. These parts must to dry for at least four hours!!!





Frontfork 4054 MXTA 03/2002

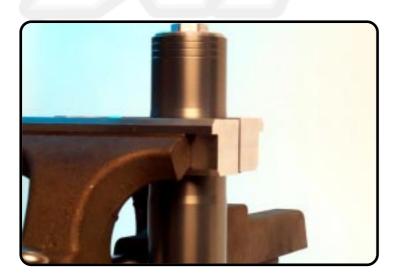
4054 MXTA

Product Exploded View Disassembly & Assembling



Disassembly forkleg

Clamp the forkleg in the vice with T501S.



Note the position of rebound/compression by turning the adjustment screw to the right.





4054 MXTA

Product Exploded View Disassembly & Assembling





Unscrew the screw-cap. (size 24)



Remove the screw-cap.

Check the rubber sealing ring inside.



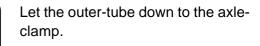
4054 MXTA

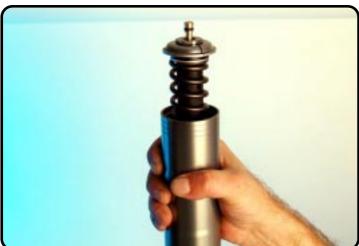
Product Exploded View Disassembly & Assembling

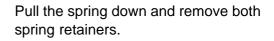




Clamp the axle-clamp in the vice.









4054 MXTA

Product Exploded View Disassembly & Assembling



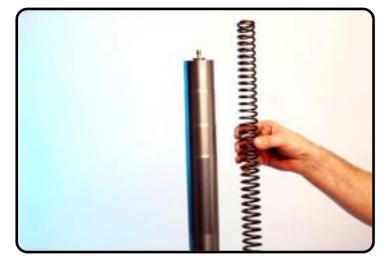


Remove the preload spacers and the steel washer.

- steel washer
- preload spacers
- spring retainer half



Take the spring out.



4054 MXTA

Product Exploded View Disassembly & Assembling





Check and note the oil level with T137S. Slide the O-ring to the fully compressed outer-tube to the edge.



Drain the oil out the forkleg. Move the piston-rod up and down several times and drain the rest of the oil out the forkleg.



8

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

Frontfork 4054 MXTA 03/2002

4054 MXTA

Product Exploded View Disassembly & Assembling



Unscrew the bolt out the axle-clamp.



J.

Bolt and copper washer.



4054 MXTA

Product Exploded View Disassembly & Assembling





Pull the cartridge out the forkleg.



Remove the cartridge.

The cartridge.



4054 MXTA

Product Exploded View Disassembly & Assembling

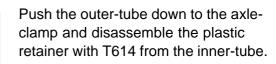




Extend the outer-tube ± 10 cm from the axle-clamp.



Disassemble the bush out the outer-tube.





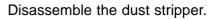
4054 MXTA

Product Exploded View Disassembly & Assembling





Remove the plastic retainer.







Pull slowly the outer- from the innertube.





4054 MXTA

Product Exploded View Disassembly & Assembling



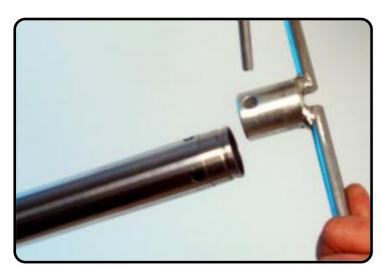


Remove the dust stripper.



Heat the axle-clamp.

Use T601S (with T605) to disassemble the inner-tube from the axle-clamp.



4054 MXTA

Product Exploded View Disassembly & Assembling





Unscrew the inner-tube.



Remove the inner-tube.

Lift the O-ring out the groove of the axleclamp.





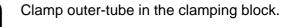
4054 MXTA

Product Exploded View Disassembly & Assembling





Hold the outer-tube up side down, and remove the washer and DU-bush.





Disassemble the circlip.





4054 MXTA

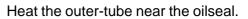
Product Exploded View Disassembly & Assembling

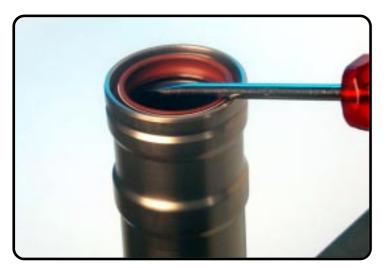




Remove the spacer ring.







Pitch a screwdriver just below the oilseal...

Frontfork 4054 MXTA 03/2002



4054 MXTA

Product Exploded View Disassembly & Assembling





...and lift the oilseal out the tube.



Remove the support ring.

Disassembly the DU-bush: Clamp T604 in the vice.



4054 MXTA

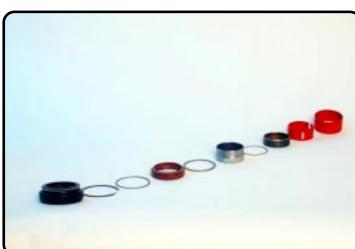
Product Exploded View Disassembly & Assembling





Slide the outer-tube over the tool and push or tap the DU-bush out the outer-tube.





- dust stripper
- circlip
- spacer ring
- oilseal
- support ring
- DU-bush outer-tube
- washer
- DU-bush inner-tube
- plastic retainer
- bush



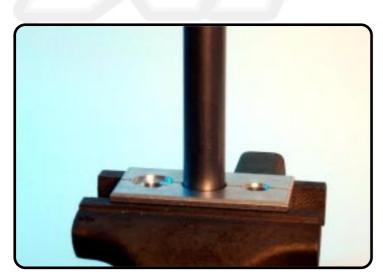
4054 MXTA

Product Exploded View Disassembly & Assembling



Disassembly cartridge

Clamp the tube of the cartridge in T616S.



Unscrew the screw sleeve. (size 27)





4054 MXTA

Product Exploded View Disassembly & Assembling





Pull the piston-rod out the tube.



By removing of the piston-rod pay attention on the piston ring.

Clamp the piston-rod in T616S. Keep sufficient distance with the vice.



4054 MXTA

Product Exploded View Disassembly & Assembling

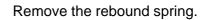




Unscrew the rod tap (size 17).



Remove the rod tap "complete".





4054 MXTA

Product Exploded View Disassembly & Assembling



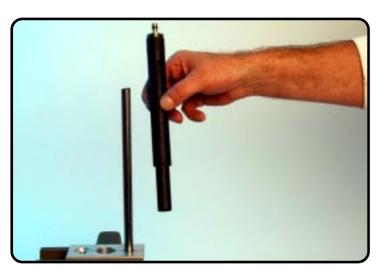


Remove the screw sleeve with spring retainer.



Clamp piston-rod in on the otehr side and unscrew the stop "complete" (size 22).

"Stop complete" (Compression side)

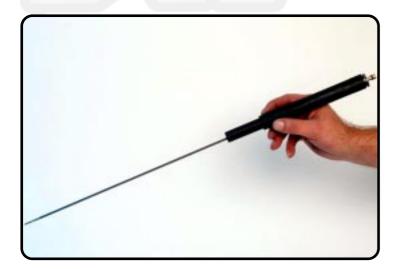




Exploded View

Disassembly & Assembling





"Stop complete" (Rebound side)





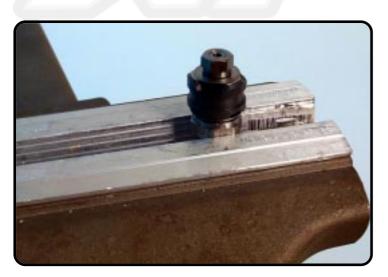
4054 MXTA

Product Exploded View Disassembly & Assembling



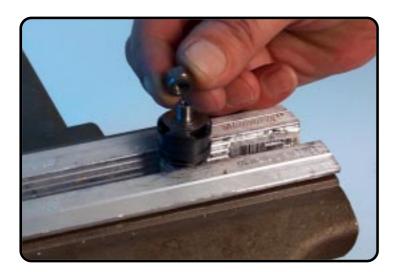
Disassembly rod tap

Clamp 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!!

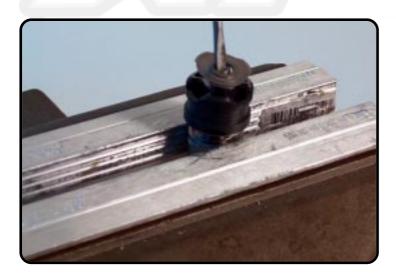
Remove the nut.



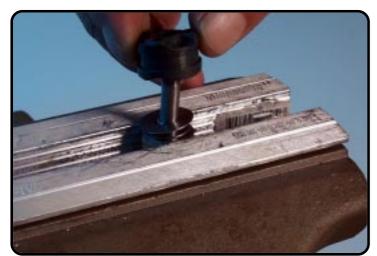
4054 MXTA

Product Exploded View Disassembly & Assembling



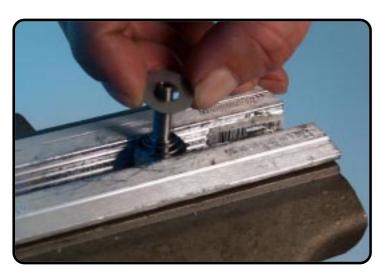


Place a screwdriver on top of the tap and remove the entire shim package.



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

Remove the shim for check-valve.

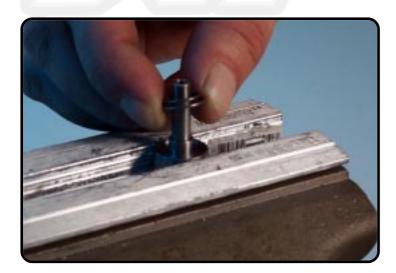




4054 MXTA

Product Exploded View Disassembly & Assembling





Remove the spring for check-valve.



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



4054 MXTA

Product Exploded View Disassembly & Assembling



Assembling rod tap

Assemble the spring for check-valve.



Assemble the shim for check-valve, piston and the shims. Pay attention to the postition of the triangular shims!!!

Tighte the nut to a torque of 5Nm.



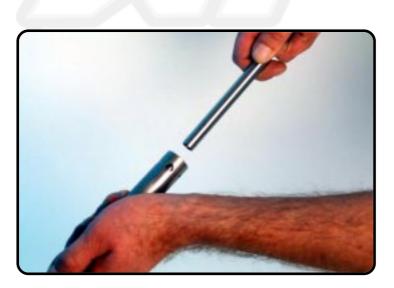
4054 MXTA

Product Exploded View Disassembly & Assembling



Disassembly tap compression

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



"Tap compression"



Clamp the tap in T639S.



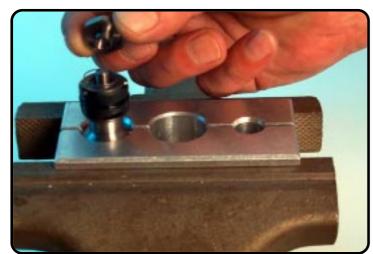
4054 MXTA

Product Exploded View Disassembly & Assembling





Unscrew the check-valve nut.



Remove the check-valve nut.

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

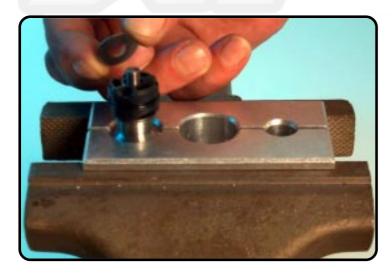




4054 MXTA

Product Exploded View Disassembly & Assembling



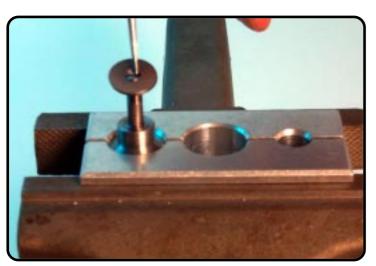


Remove the shim for check-valve.



Remove the piston and check the Oring. Pay attention to the assembling direction!!!

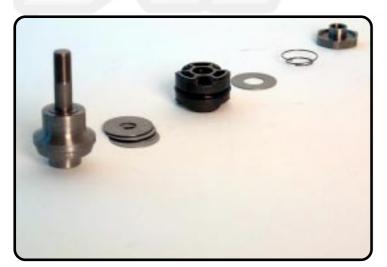
Place a screwdriver on top and remove the entire shim packet.



4054 MXTA

Product Exploded View Disassembly & Assembling





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



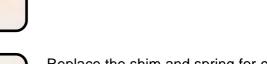
4054 MXTA

Product Exploded View Disassembly & Assembling



Assembling tap compression

Assemble the shims and the piston with O-ring.



Replace the shim and spring for check-valve.



Assemble the nut and tighten it to a torque of 5Nm. Check if the spring is placed into the chamber of the nut.



4054 MXTA

Product Exploded View Disassembly & Assembling



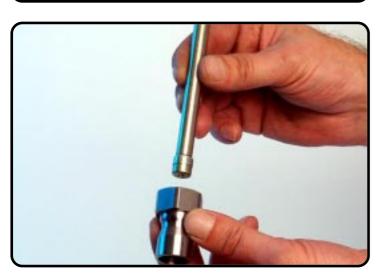
Disassembly screw sleeve

For disassembling the bump rubber use T109.



Lift the bump rubber out the screw sleeve.

Disassemble the DU-bush with T619.



4054 MXTA

Product Exploded View Disassembly & Assembling





Remove the DU-bush with support of the vice.



- spring retainer
- screw sleeve
- DU-bush
- bump rubber.



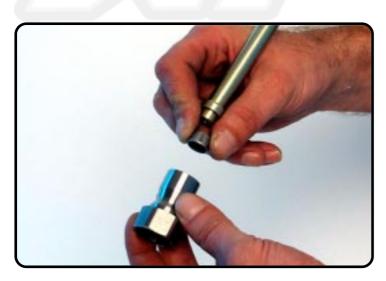
4054 MXTA

Product **Exploded View Disassembly & Assembling**



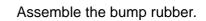
Assembling screw sleeve

Assembly DU-bush with T620.



Press the DU-bush in the screw sleeve.







Frontfork 4054 MXTA 03/2002

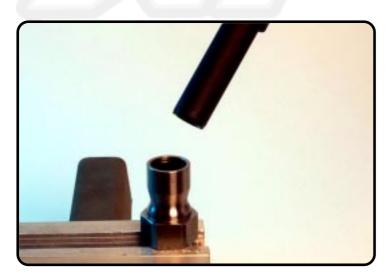




4054 MXTA

Product Exploded View Disassembly & Assembling





With support of the stop you can...



...push the bump rubber downwards.



4054 MXTA

Product Exploded View Disassembly & Assembling



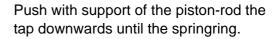
Assembling cartridge

Grease the O-ring with frontfork oil.



Assemble the compression tap into the tube.







37

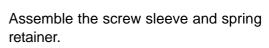
4054 MXTA

Product Exploded View Disassembly & Assembling

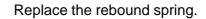




Clamp the piston-rod in the clamping block with the bevelled edge on top.







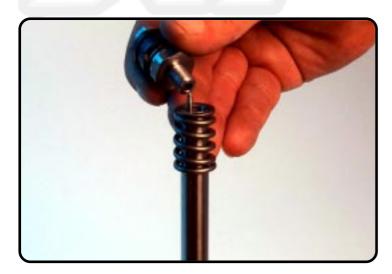




4054 MXTA

Product Exploded View Disassembly & Assembling



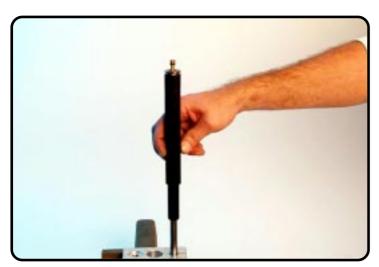


Assemble the rod tap...



...and tighten it.

Assemble the stop "complete".



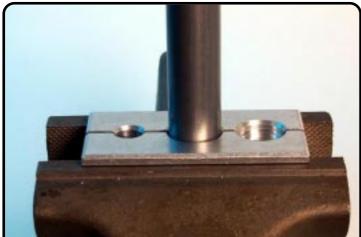


Workshop manual 4054 MXTA Product Exploded View Disassembly & Assembling





Tighten the stop.



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

Clamp the tube in the clamping block.



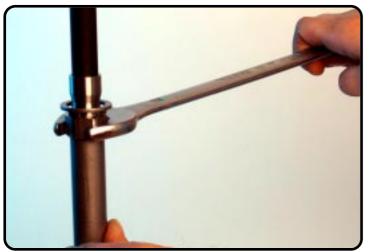
4054 MXTA

Product Exploded View Disassembly & Assembling





Assemble the screw sleeve on the tube.



Tighten the screw sleeve.



4054 MXTA

Product Exploded View Disassembly & Assembling



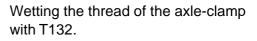
Assembling forkleg

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



Wetting the thread of the inner-tube with T132.







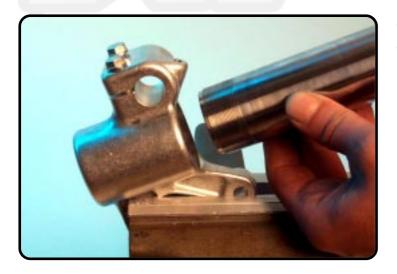




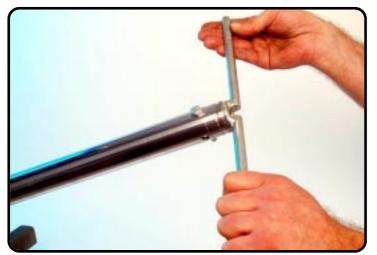
4054 MXTA

Product Exploded View Disassembly & Assembling





Clamp the axle-clamp in the vice and assemble the inner-tube.



Screw down the inner-tube with T601S.



4054 MXTA

Product Exploded View Disassembly & Assembling





Place T615 on top of the inner-tube.



Grease the innerside of the dust stripper with frontfork oil.



4054 MXTA

Product Exploded View Disassembly & Assembling





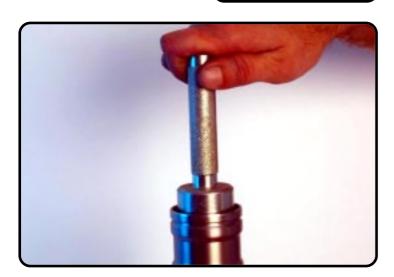
Slide the dust stripper over the innertube.



45

Place the outer-tube straight on the work-bench and use T610 to assemble the DU-bush in the outer-tube.

Push the DU-bush in the outer-tube..



4054 MXTA

Product Exploded View Disassembly & Assembling





Replace the support ring.



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

Use T603 to assemble the oilseal.





4054 MXTA

Product Exploded View Disassembly & Assembling





Push or tap the oilseal into the outer-tube.



Replace the spacer ring.

Assemble the circlip.







4054 MXTA

Product Exploded View Disassembly & Assembling





Slide with support of T615 the outer-tube over the inner-tube.



Assemble the dust stripper.

Remove T615.





4054 MXTA

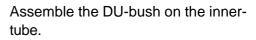
Product Exploded View Disassembly & Assembling





Assemble the washer on the inner-tube.





Assemble the retainer in the groove of the inner-tube and check if the retainer can be rotate.



49



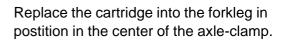
4054 MXTA

Product Exploded View Disassembly & Assembling





Extend the outer-tube to replace the bush.





Turn the bolt with a new copper washer.

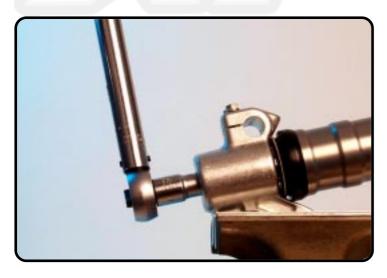


50

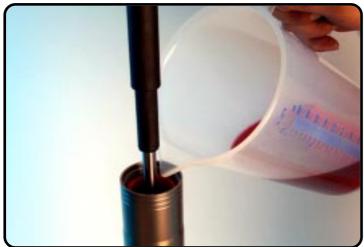
4054 MXTA

Product Exploded View Disassembly & Assembling





Tighten the bolt to a torque of 22Nm.



Clamp the forkleg (axle-clamp) in the vice and fill the leg just under the edge of the outer-tube with oil. Keep the outer-tube down.



4054 MXTA

Product Exploded View Disassembly & Assembling



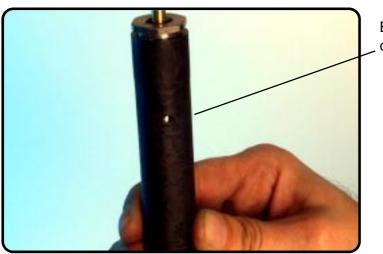


Move the outer-tube several times up and down. Not too high.

Move the piston-rod several times up and down, till you feel that all air is bled out.

(The damping is smooth over the entire stroke)





52

By the compression side the oil will come through this hole.



4054 MXTA

Product Exploded View Disassembly & Assembling



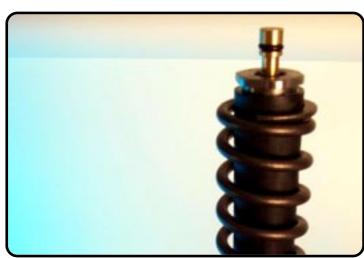


Adjust T137S.



Hold the upper side of the piston rod exactly level with the (fully compressed) outer-tube. Remove the oil till the correct level.

Assemble the spring.





4054 MXTA

Product Exploded View Disassembly & Assembling





Push the spring downwards and assemble the steel washer and preload spacers.











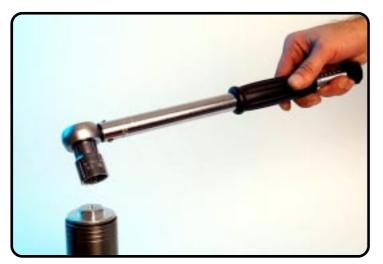
4054 MXTA

Product Exploded View Disassembly & Assembling





Clamp the outer-tube in the clamping block and assemble the screw-cap.



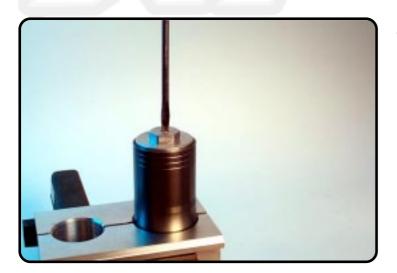
Tighten the screw-cap to a torque of 25Nm.



4054 MXTA

Product Exploded View Disassembly & Assembling





Adjust position rebound/compression.

