

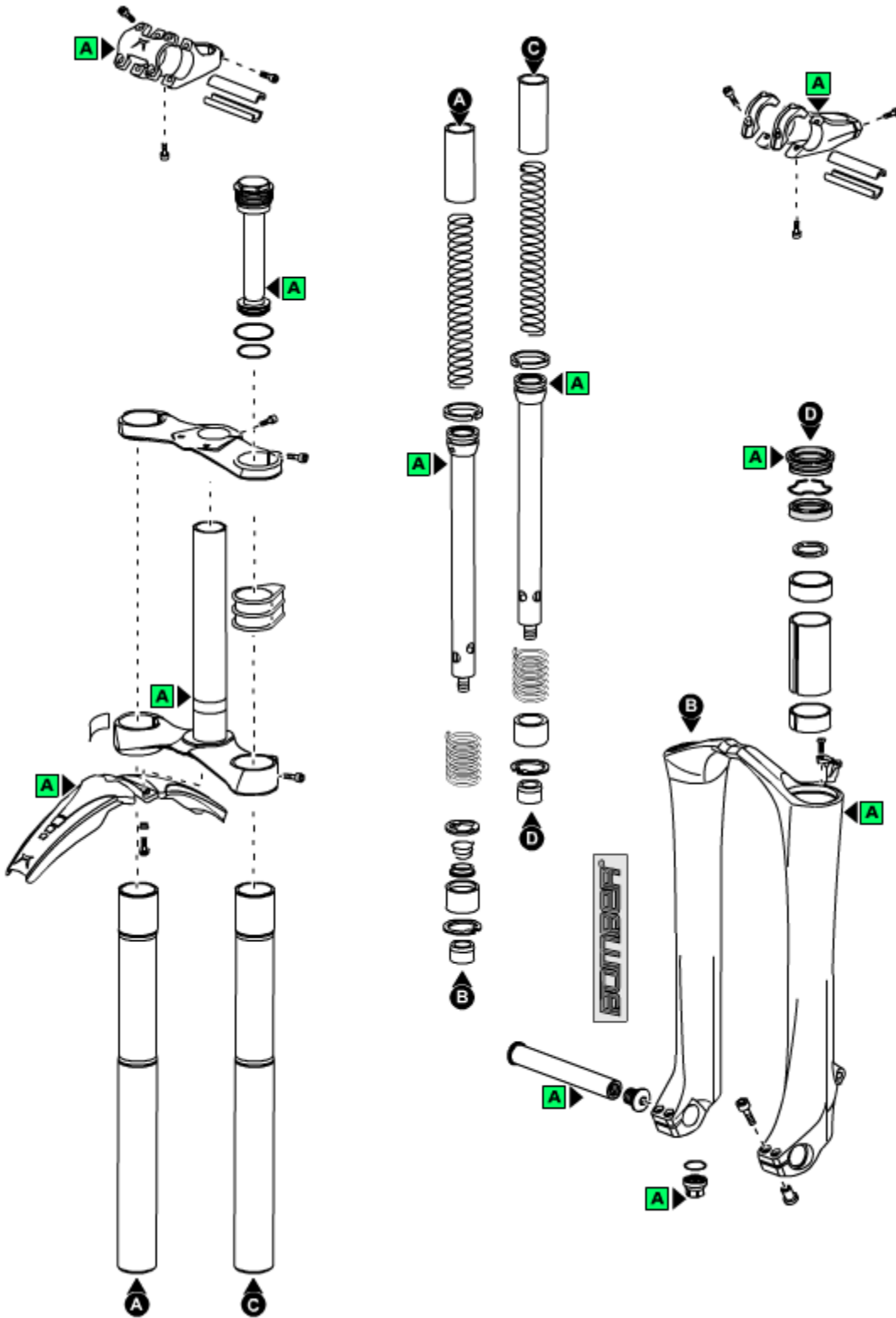
marzocchi
WWW.MARZOCCHI.COM



2006 - 888 VF

Technical instructions

Exploded view - 888 VF - 170



Rif. Code	Quantity
2 528260	2
8 810052AC/R	2
9 501536LA	1
11 7051210/R	1
12 533167	2
13 523236	2
14 528034>B	2
16 538038>A	2
17 529194	2
18 538124	2
19 522406	2
20 547717	1
20 547665	1
20 547701	1
21 520341	1
22 5321153>A	1
23 850956/C	1
24 520349LA	1
25 5181254	1
26 5141398/C	1
32 528154	2
33 516107	1
34 509135	1
35 5321193SS/R>A	1
35 5321193RS/R>A	1
35 5321193RR/R>A	1
35 5321193TD/R>A	1
35 5321193TI/R>A	1
36 520344PN	14
37 507665/C	2
38 528051	2
39 520178PN	11
40 8031486/C	1
41 524180	2
42 5141294/C	1
43 522415	1
44 5141303	1
46 509149	1
47 523078	2
48 512101	2
51 531072	2
52 526145>A	4
53 502587LA	1
54 508998CD/C	1
55 8501031/C	1
56 526262RX	2
57 520396AR	2
58 505084LA	1
59 5321199AC	2
61 505108LA	1
62 505085LA	1
63 505107LA	1
64 526157KR	1
65 526158KR	1
66 8501030/C	1
70 8031307/K/C	1
71 5181226	1
72 505083LA	1
73 850881/C	1
90 547705	1
90 547709	1

888 VF - 170 - Oil levels

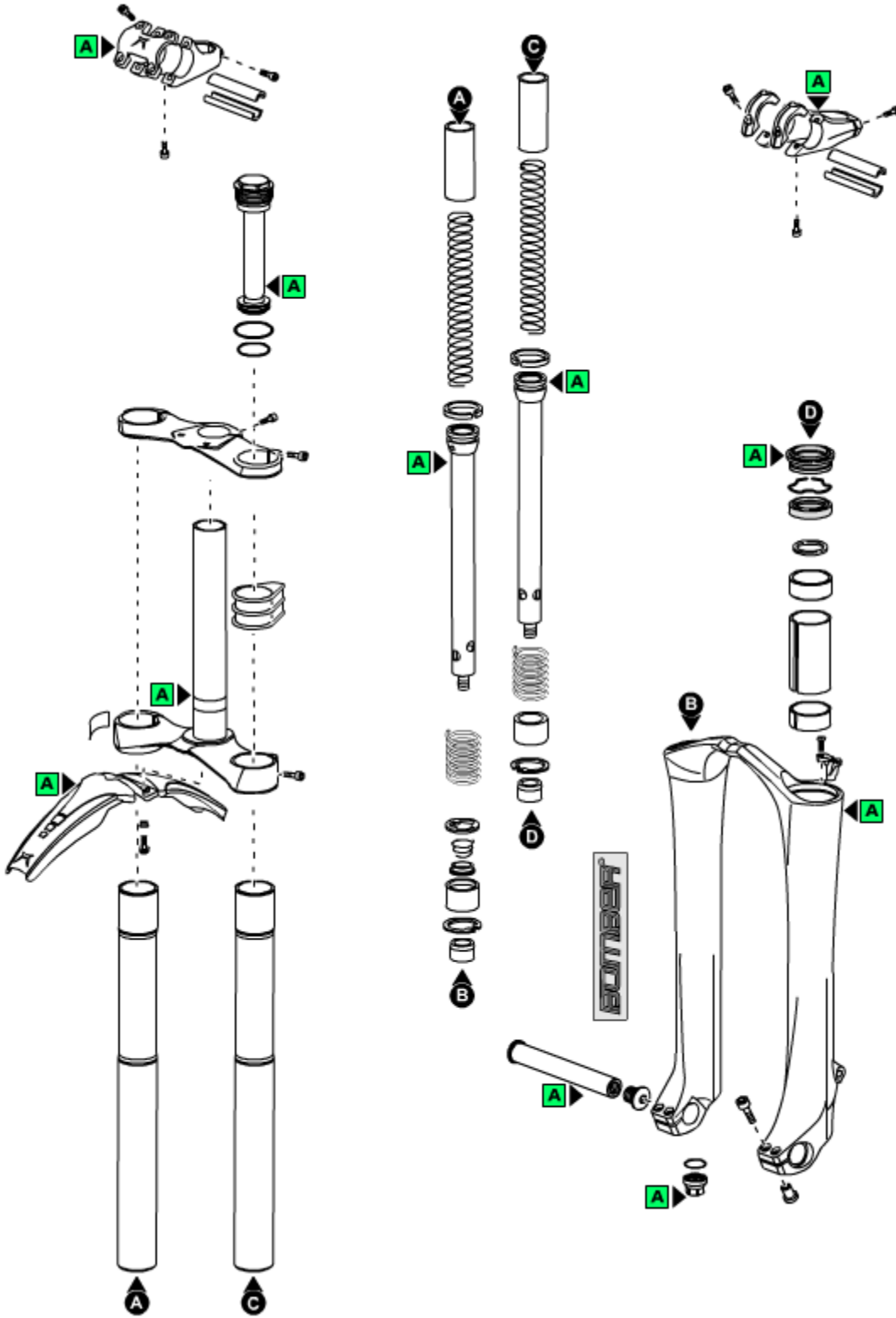
Position	Oil type	Quantity (cc)
Right fork leg	SAE 7,5 - 550013	240
Left fork leg	SAE 7,5 - 550013	240

Spare part list - 888 VF - 170

Rif.	Code	Description	Q.ty in the model
2	528260	O-RING	2
8	810052AC/R	PRELOAD SPRING PLUG-888 VF'06	2
9	501536LA	UPPER CROWN-888 '06	1
11	7051210/R	LOWER CROWN+STEEL STEM-888 '06	1
12	533167	DUST SEAL DIA.35	2
13	523236	STOP RING	2
14	528034>B	OIL SEAL DIA.35	2
16	538038>A	UPPER BUSHING DIA.35	2
17	529194	SLEEVE	2
18	538124	LOWER BUSHING	2
19	522406	WASHER	2
20	547717 (replaces 547631)	FATTY 2006 LABEL-CHROME	1
20	547665	FATTY LABEL 2006-BLACK	1
20	547701	RH+LH 888VF'06 LABELS BLK+RED	1
21	520341	SCREW	1
22	5321153>A	CABLE GUIDE	1
23	850956/C (replaces R5127LA)	AXLE+SCREW KIT-66/888	1
24	520349LA	AXLE SCREW -QR 20	1
25	5181254	PRELOAD SLEEVE 44MM	1
26	5141398/C	SPRINGS KIT K=3,1 888'06	1
32	528154	O-RING	2
33	516107	VALVE 20,3 DIA.35	1
34	509135	FERRULE	1
35	5321193SS/R>A	MAGNUM GREY MONOL.DIA.35	1
35	5321193RS/R>A	MONOLITE D.35- GLOSS ECO BLACK	1
35	5321193RR/R>A	MONOLITE D.35-FLAT BLACK	1
35	5321193TD/R>A	OLIMPIC PINK MONOL.DIA.35	1
35	5321193TI/R>A	PURE WHITE MONOL.DIA.35	1
36	520344PN	SCREW	14
37	507665/C	888 STANCHION	2
38	528051	O-RING	2
39	520178PN	SCREW	11
40	8031486/C	REB.PISTON ROD 888VF'06 TR.170	1
41	524180	PISTON RING DIA.35	2
42	5141294/C	REBOUND SPRINGS KIT K=2.5	1
43	522415	WASHER	1
44	5141303	SPRING	1
46	509149	COMPR.FERRULE-888/66 VF '06	1
47	523078	STOP RING	2
48	512101	FOOT BUFFER	2
51	531072	RUBBER	2
52	526145>A	BUSHING	4
53	502587LA	LOWER CROWN 888 '06	1
54	508998CD/C	STEEL STEM	1
55	8501031/C	FENDER KIT- 888 '06	1
56	526262RX	FENDER BUSHING- 888 '06	2

57	520396AR	SCREW	2
58	505084LA	RH CLAMP -888	1
59	5321199AC	NUT UNIT - 66 /888 FORKS	2
61	505108LA	CLAMP 888'06	1
62	505085LA	LH CLAMP -888	1
63	505107LA	LOWER HANDLEBAR CLAMP 888 '06	1
64	526157KR	BUSHING	1
65	526158KR	BUSHING	1
66	8501030/C	HANDLEBAR CLAMP KIT - 888 '06	1
70	8031307/K/C	COMPR.PIST.ROD 888VF'06 TR.170	1
71	5181226	PRELOAD SLEEVE	1
72	505083LA	LOWER HANDLEBAR CLAMP- 888	1
73	850881/C	HANDLEBAR CLAMP KIT - 888 '04	1
90	547705	ALLOY STEM -LABELS	1
90	547709	INTERNAL REBOUND- LABEL	1

Exploded view - 888 VF - 200



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2 528260	2
8 810052AC/R	2
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24 520349LA	1
25 5181254	1
26 5141398/C	1
32 528154	2
33 516107	1
34 509135	1
35 5321193SS/R>A	1
35 5321193RS/R>A	1
35 5321193RR/R>A	1
35 5321193TD/R>A	1
35 5321193TI/R>A	1
36 520344PN	14
37 507665/C	2
38 528051	2
39 520178PN	11
40 8031409/C	1
41 524180	2
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44 5141303	1
46 509149	1
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51 531072	2
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56 526262RX	2
57 520396AR	2
58 505084LA	1
59 5321199AC	2
61 505108LA	1
62 505085LA	1
63 505107LA	1
64 526157KR	1
65 526158KR	1
66 8501030/C	1
70 8031212/C	1
71 5181226	1
72 505083LA	1
73 850881/C	1
90 547705	1
90 547709	1

888 VF - 200 - Oil levels

Position	Oil type	Quantity (cc)
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56	526262RX	FENDER BUSHING- 888 '06	2

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65	526158KR	BUSHING	1
66	8501030/C	HANDLEBAR CLAMP KIT - 888 '06	1
70	8031212/C	PUMPING ROD 888 RT '04	1
71	5181226	PRELOAD SLEEVE	1
72	505083LA	LOWER HANDLEBAR CLAMP- 888	1
73	850881/C	HANDLEBAR CLAMP KIT - 888 '04	1
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Technical characteristics: Technical characteristics

Dual-crown fork with \varnothing 35mm legs.

Available travels: 170 mm, 200 mm.

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Right fork leg damping element: spring.

Right fork leg damping element: spring.

Left fork leg damping element: spring.

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Right fork leg damping system: SSVF pumping element with internal rebound adjustment.

Left fork leg damping system: pumping element.

The stanchion tubes are joined with screws to the steering crown.

Lubrication and cooling of the parts subject to friction with a specially formulated oil.

Steer tube: steel or (optional) reinforced aluminium, 1-1/8", threadless.

Crown: aluminium alloy forged and CNC machined.

Top crown: aluminium alloy forged and CNC machined.

Stanchions: anodised aluminium.

One-piece assembly: made of magnesium alloy cast and CNC machined for lighter weight and more stiffness.

Sliding bushings: made of friction-free and wear-free material.

Seals: computer designed oil seals that guarantee maximum seal in any condition.

Oil: specially formulated oil that prevents foam and keeps the viscosity unchanged while offering high performance; free from static friction.

Dropout type: motocross type wheel axle support, with advanced axle and double screw locking system on both dropouts (specific wheel axle, \varnothing 20 mm, supplied).

Disk brake mount: XC International Standard for 6" disk (fitting the special adapter supplied by the brake system manufacturer you can install the 8" disk).

Max wheel size: 2.8" x 26".

Integrated fender: available as optional.

Handlebar with direct clamp on top crown: available as option.

Warnings: Instructions for use

MARZOCCHI forks are based on an advanced technology coming from the company's years long experience in the professional mountain bike industry.

For the best results, we recommend inspecting and cleaning the area below the dust seal and the stanchion tube after every use and lubricating the parts with some silicone oil.

MARZOCCHI forks usually offer the best performances since the very first rides. Notwithstanding this, a short running-in period may be necessary (5-10 hours) to adjust the internal couplings. This precaution will lengthen your fork's life and guarantee its best performances.

We recommend changing the oil at least every 100 hours.

The forks with a polished finish must be treated periodically with polishing paste to keep the exterior shining like new.

Warnings: General safety rules

After disassembling the forks, always use new, original Marzocchi seals when reassembling.

To tighten two bolts or nuts that are near each other, always follow the sequence 1-2-1, and tighten to the required tightening torque.

Before reassembly, wash all new and old components and dry them with some compressed air, making sure there are neither breaks nor burrs.

Never use flammable or corrosive solvents when cleaning the forks, as these could damage the fork's seals. If you must use a solvent, use biodegradable detergents that are not corrosive, non-flammable, or have a high flash point.

Before reassembling, always lubricate those components that are in contact with the fork's oil.

If you are planning not to use your forks for a long period of time, always lubricate those components that are in contact with the fork's oil.

Always collect and keep any lubricants, solvents, or detergents, which are not completely biodegradable in the environment. These materials should be kept in appropriate containers, and disposed of according to local laws.

Always grease the seal lips before reassembling.

All of the components of Marzocchi forks require the use of metric tools. Use only metric tools. Imperial (US) tools may have similar sizes, but can damage the bolts, making them impossible to loosen or tighten.

When using a screwdriver to assemble or disassemble metal stop rings, O-rings, sliding bushings, or seal segments, avoid scratching or cutting the components with the screwdriver tip.

Do not carry out any maintenance and / or adjustment operations that are not explained in this manual.

Only use original Marzocchi spare parts.

Before servicing the fork, we recommend washing the fork thoroughly.

Work in a clean, organized, and well-lit place. If possible, avoid servicing your forks outdoors.

Carefully check to see that your work area is free of dust and metal shavings from any component of the forks.

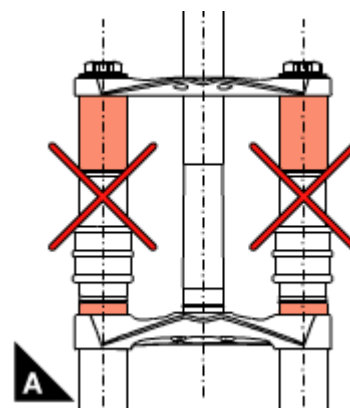
Never modify your fork in any way.

We recommend overhauling one fork leg at a time.

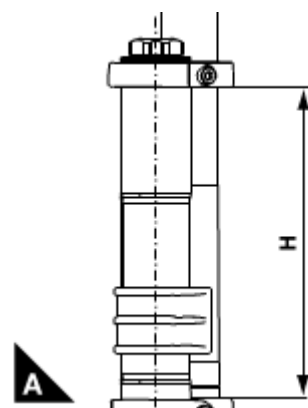
We recommend overhauling one fork leg at a time.

Warnings: Fitting the fork onto the frame

In case of oversized diameter areas on the stanchions or sliders, the crowns clamping can only be done in the shaded area shown in Picture **A**.



For a correct installation of the fork onto the frame, check that distance **H**, corresponding to the length of the steer tube between the two crowns, is less than **158 mm**.



A different position of the crowns can result in damage to the fork and in serious personal injury.

Warnings: Installing the disk brake

Installing the brake system is a delicate and critical operation that must be carried out by an authorized Marzocchi Service Center.

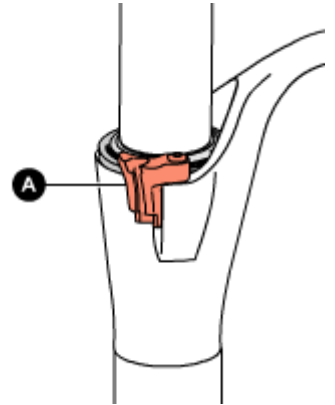
Marzocchi is not responsible for the installation and accepts no liability for damage and/or accidents arising from this operation.

Improper installation of a disk brake system can overstress the caliper mountings, which may cause the caliper mountings to break, resulting in loss of control of the bicycle, an accident, personal injury, or death. Be sure that the brake system installation is also performed in strict compliance with the instructions provided by the brake system manufacturer.

Improper installation can result in an accident, personal injury, or death.

Use only brake systems that comply with the forks specifications.

Make sure, after installation, that the brake cable of the brake system is correctly connected to the proper mounting (A).

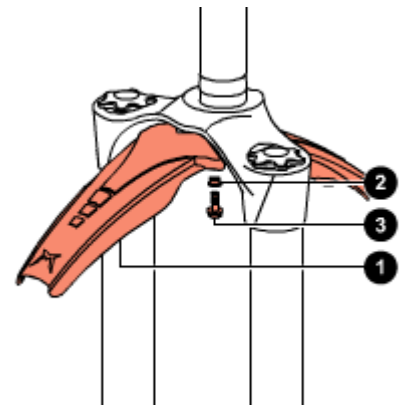


The brake cable must never touch the crown and stanchions.

Warnings: Assembling the fender

The fender can be supplied with the fork or purchased separately.

Fender (1) must be assembled by placing the small support bush (2) between the screw and the fender as shown and by tightening screws (3) with an 8mm fixed spanner to the recommended tightening torque (**6 Nm ± 1**).



Warnings: Assembling the wheel

For a correct operation of the fork, install the wheel as explained below:

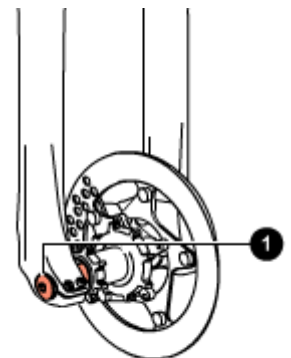
Align the center of the wheel with each wheel axle clamp.

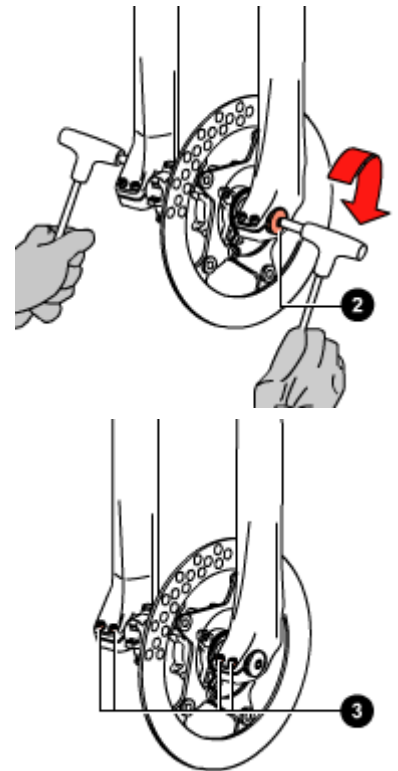
Insert the wheel axle (1) through the right dropout, the wheel and the left dropout.

With the 6mm Allen wrench act on cap (2) and tighten the wheel axle to the recommended tightening torque (**15 Nm ± 1**).

Check for the proper fork-wheel alignment. To do this, begin by fully compressing the fork a few times. The wheel should not make contact with, or come close to any portion of the fork.

Then lift the front of the bicycle and spin the wheel a few times to verify the correct alignment with the disk brake. The wheel should not wobble from side to side or up and down. Check the owner's manual of the brake system for the proper specifications.





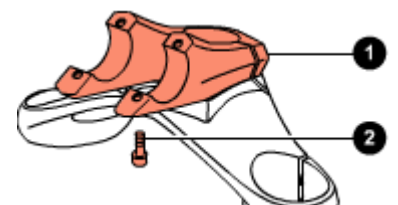
With a 4mm Allen wrench, tighten screws (3) on both dropouts to the recommended tightening torque (**6 Nm ±1**) following the sequence 1-2-1.

Warnings: Installing the handlebar mount

For a correct installation of the handlebar mount, follow the instructions below:

Install the bottom handlebar mount (1) onto the top crown so that the fixing holes match.

With a 4mm Allen wrench, lock the handlebar mount tightening screws (2) to the recommended tightening torque (**6 Nm ±1**).

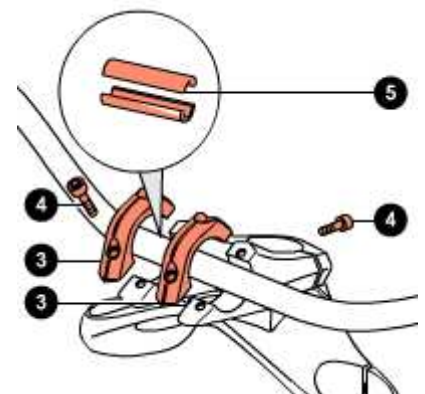


Fit the handlebar right in the middle of the mount.

Lock the handlebar in position with the special U-bolts (3).

With a 4mm Allen wrench, tighten screws (4) to the recommended tightening torque (**6 Nm ±1**).

On request, special adapters (5) are available to install handlebars with a different diameter.

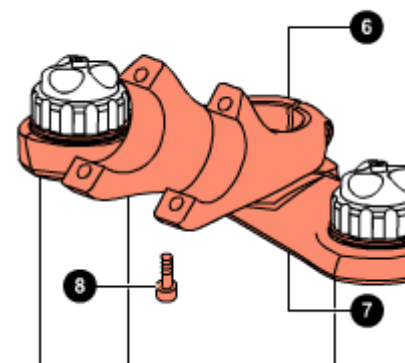


Warnings: Installing the handlebar mount

To install the handlebar clamp, please carefully follow the instructions below:

Place the lower mounting segment (6) of the handlebar clamp on the upper crown (7) of the fork and align the corresponding holes from each of these components.

Secure the lower mounting segment of the handlebar clamp by tightening the screws (2) to the required torque (**6 Nm ± 1**) using a 4mm Allen key.

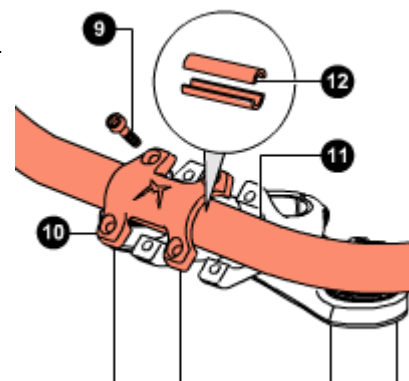


Place the handlebar (**11**) into the lower mounting segment of the handlebar clamp, being sure that it is centered.

Place the upper segment (**10**) of the handlebar clamp over the handlebar and align the holes of the upper segment with the corresponding holes of the lower mounting segment.

Secure the handlebar in place by tightening each screw (**9**) to the required torque (**6 Nm ±1**) using a 4mm Allen key.

For installation of handlebars having different diameters, "reduction sleeves" (**12**) may be placed around the handlebar (between the handlebar and each segment of the handlebar clamp) to ensure the handlebar is held in place.



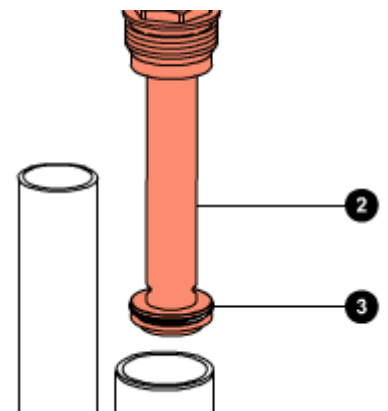
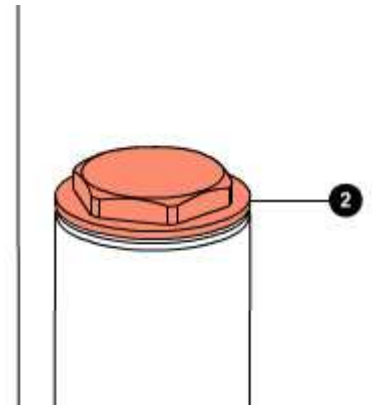
Dismantling: Removing the top caps

Put the fork in the vice in vertical position, fixing it by the dropouts.

Put the fork in the vice in vertical position, fixing it by the dropouts.

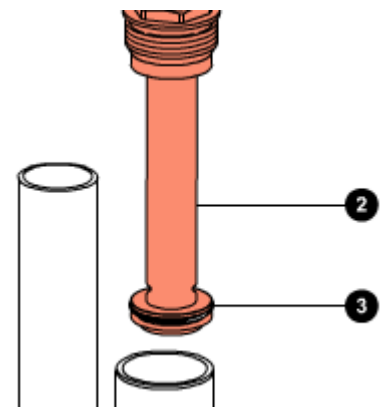
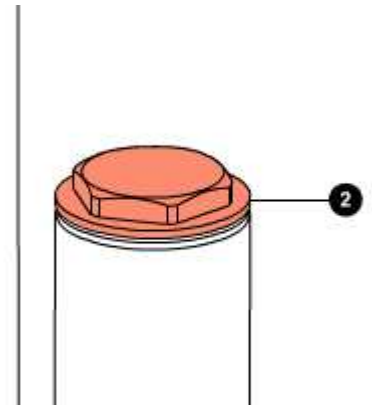
Fully unscrew lock cap (2), with a 26mm fixed spanner.

Remove lock cap (2) being careful not to damage the O-ring (3).



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Remove lock cap (2) being careful not to damage the O-ring (3).



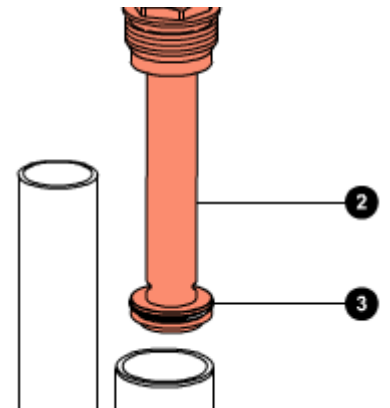
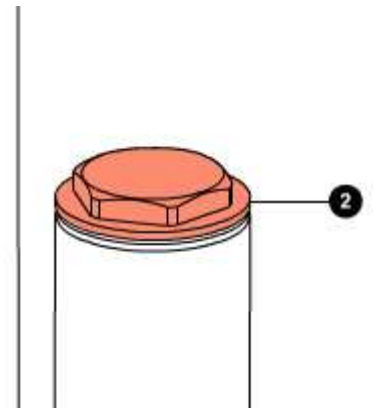
Dismantling: Removing the top caps

Put the fork in the vice in vertical position, fixing it by the dropouts.

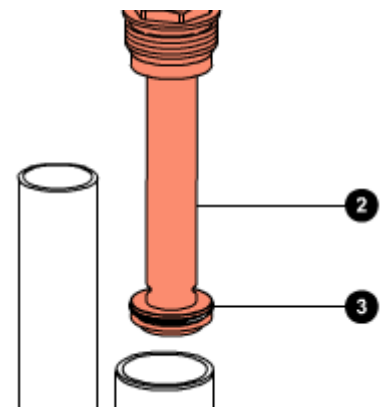
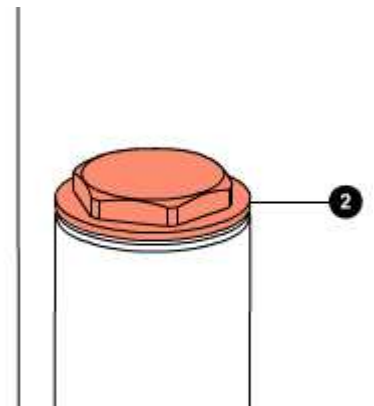
Put the fork in the vice in vertical position, fixing it by the dropouts.

Fully unscrew lock cap (2), with a 26mm fixed spanner.

Remove lock cap (2) being careful not to damage the O-ring (3).

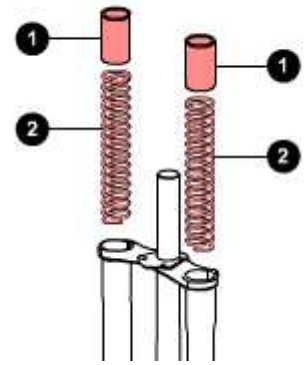


Fully unscrew lock cap (2), with a 26mm fixed spanner.
Remove lock cap (2) being careful not to damage the O-ring (3).

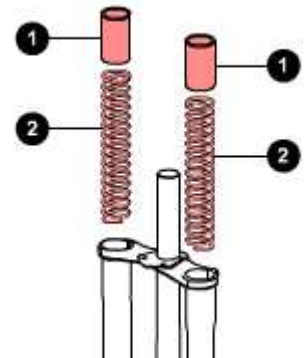


Dismantling: Draining the oil

Block the fork in the vice, in perfectly vertical position.
Block the fork in the vice, in perfectly vertical position.
Remove the preload tube (1) and spring (2) from both legs.

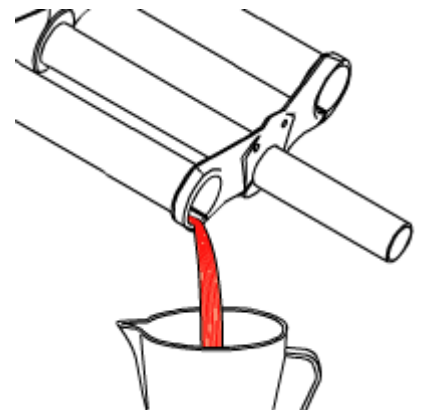


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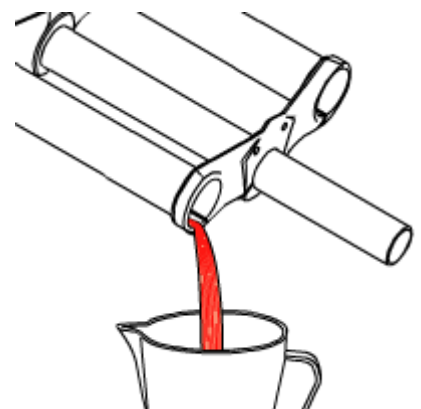
Free the fork from the vice and tip it into a container of a suitable size to drain the oil; compress the fork a few times to help the oil flow out.

Do not pour used oils on the ground.



Free the fork from the vice and tip it into a container of a suitable size to drain the oil; compress the fork a few times to help the oil flow out.

Do not pour used oils on the ground.

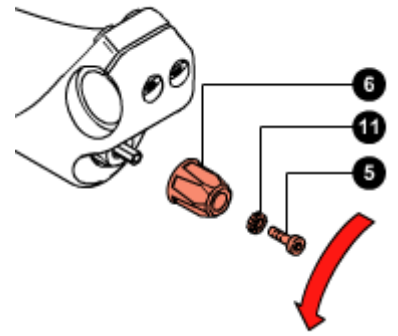


Dismantling: Breaking down the steering crown unit / arch-slider assembly

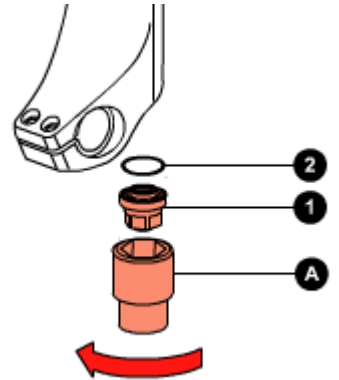
Use the special spanner to remove the bottom nuts. Do not use other tools.

Turn the arch-slider assembly upside down.

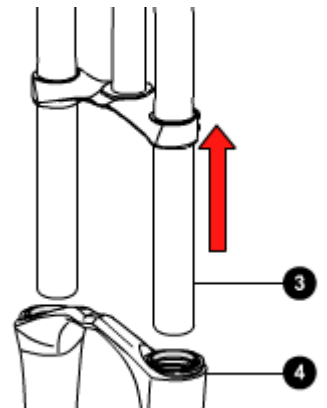
Loosen the screw (5) fixing the rebound adjustment knob (6) on the right leg using a 2mm Allen key.
Remove screw (5), washer (11) and the adjustment knob (6).



Using the special 12mm spanner (A), loosen the left bottom nut (1).
Pull out the left bottom nut (1) complete with O-ring (2).

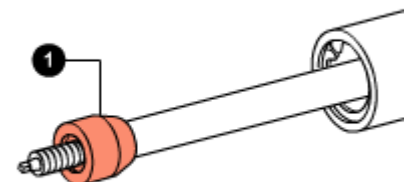


Pull the crown-stanchion unit (3) off the arch-slider assembly (4).

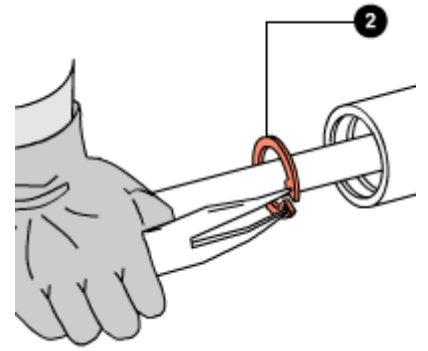


Dismantling: Dismantling the right pumping element and valve

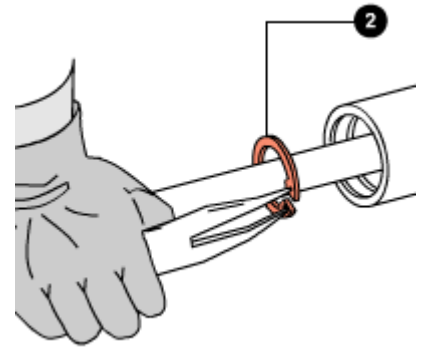
Remove the bottom pad (1).



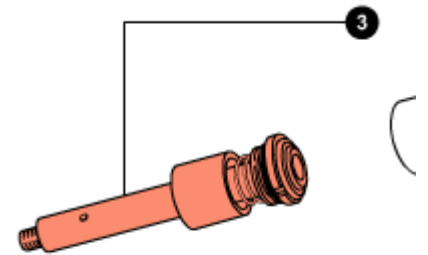
Using the special round-nose pliers, remove stop ring (2).



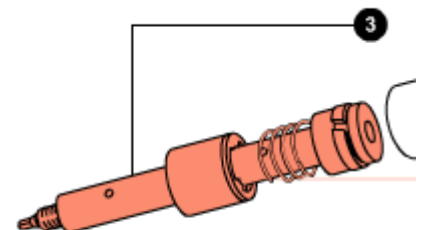
Using the special round-nose pliers, remove stop ring (2).



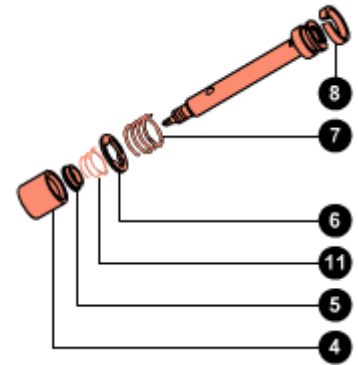
Pull out the pumping element (3) complete with rebound spring and valve.



Pull out the pumping element (3) complete with rebound spring and valve.

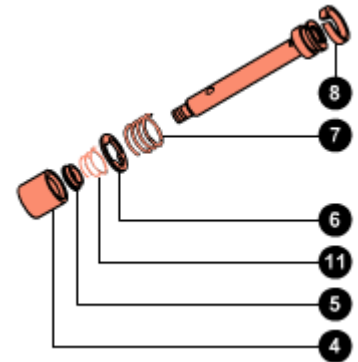


Remove bushing (4), valve (5), the conical spring (11) and the three-point ring (6) from the pumping element.
Remove the rebound spring (7).



Remove bushing (4), valve (5), the conical spring (11) and the three-point ring (6) from the pumping element.

Remove the rebound spring (7).

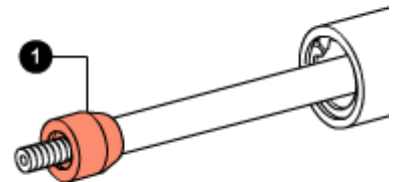


If the piston segment (8) is damaged, you can prize it off with a small flat-tip screwdriver.

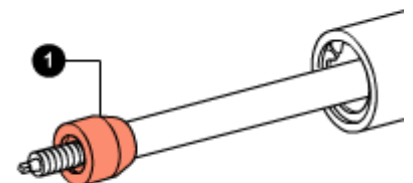
If the piston segment (8) is damaged, you can prize it off with a small flat-tip screwdriver.

Dismantling: Removing the left pumping element

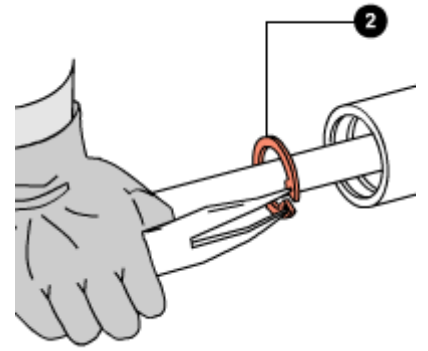
Remove the bottom pad (1).



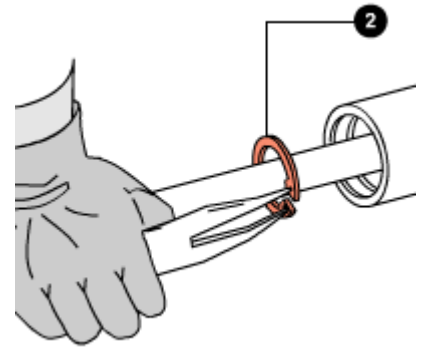
Remove the bottom pad (1).



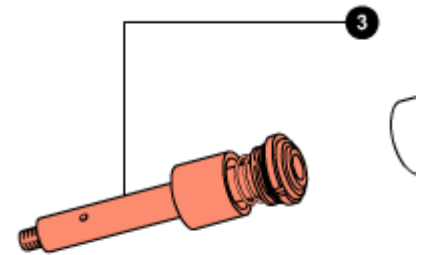
Using the special round-nose pliers, remove stop ring (2).



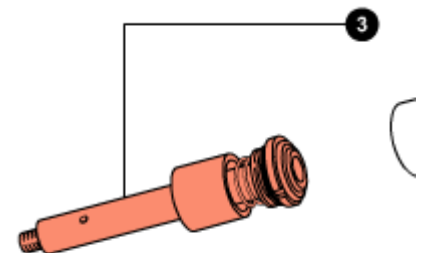
Using the special round-nose pliers, remove stop ring (2).



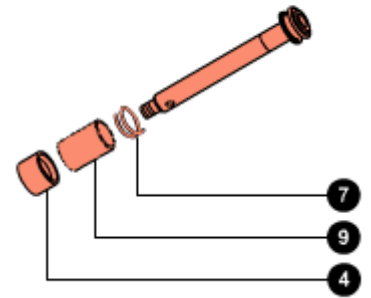
Pull out the pumping element (3) complete with rebound spring and bushing.



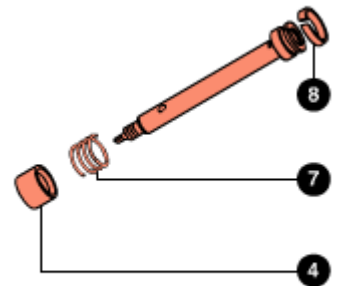
Pull out the pumping element (3) complete with rebound spring and bushing.



Remove in this order: bushing (4), preload tube (9) (*only on models with 130mm travel*) and rebound spring (7) from the pumping element.



Remove bushing (4) and rebound spring (7) from the pumping element.



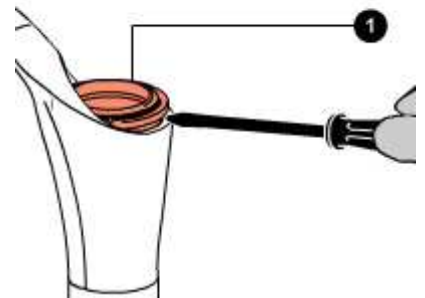
If the piston segment (8) is damaged, you can prize it off with a small flat-tip screwdriver.

If the piston segment (8) is damaged, you can prize it off with a small flat-tip screwdriver.

Dismantling: Removing the seals

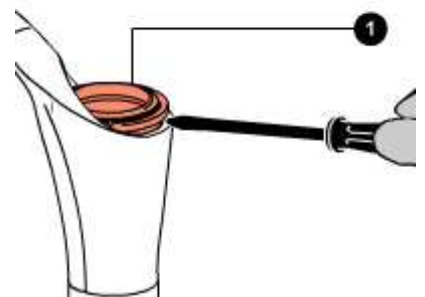
Prize the dust seal (1) off its seat with a small flat-tip screwdriver.

Take great care not to damage the internal surfaces of the one-piece assembly while removing the dust seal.



Prize the dust seal (1) off its seat with a small flat-tip screwdriver.

Take great care not to damage the internal surfaces of the one-piece assembly while removing the dust seal.

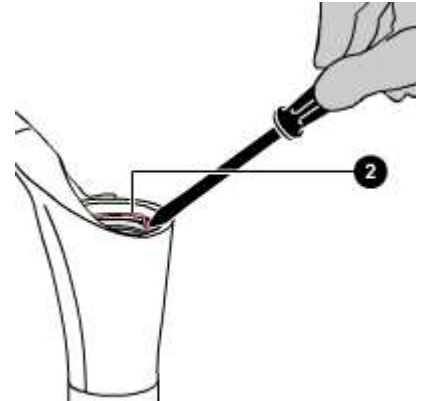


With the same screwdriver, prize off the metal stop ring (2).

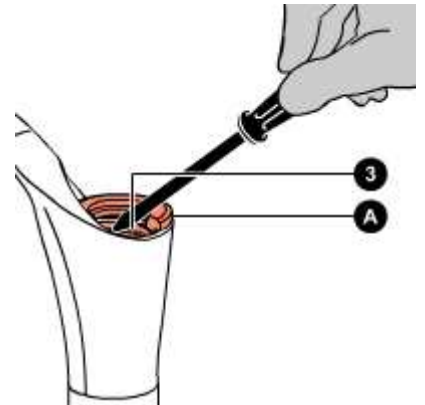
Take great care not to damage the internal surfaces of the one-piece assembly while removing the stop ring.



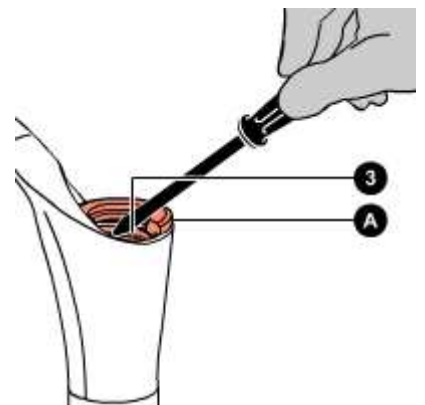
With the same screwdriver, prize off the metal stop ring (2).
Take great care not to damage the internal surfaces of the one-piece assembly while removing the stop ring.



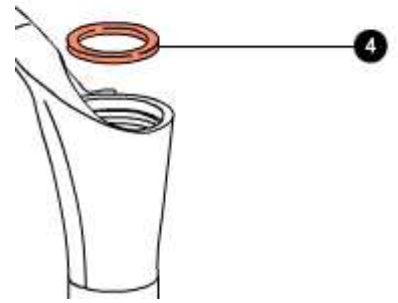
Protect the upper part of the slider with the special tool (A).
With a screwdriver, prize off the sealing ring (3).
Remove the sealing ring (3).
Take great care not to damage the internal surfaces of the one-piece assembly while removing the sealing ring.



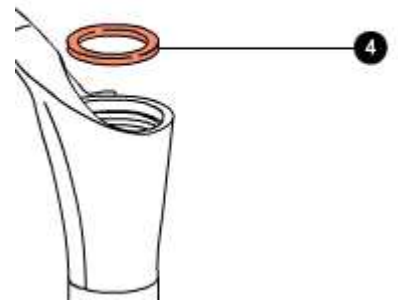
Protect the upper part of the slider with the special tool (A).
With a screwdriver, prize off the sealing ring (3).
Remove the sealing ring (3).
Take great care not to damage the internal surfaces of the one-piece assembly while removing the sealing ring.



Remove the spring cup (4).



Remove the spring cup (4).



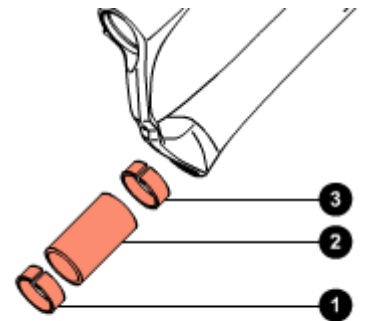
The old sealing rings and dust seals must not be used again.

The old sealing rings and dust seals must not be used again.

Dismantling: Removing the guide bushes

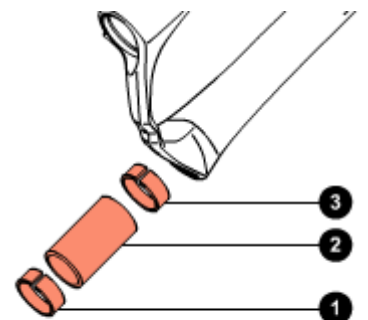
Knock the top end of the one-piece assembly against a wooden surface and remove the top guide bush (1), spacer (2) and the bottom guide bush (3).

Do this operation with extreme caution and hold the one-piece assembly perpendicular to the wooden surface.



Knock the top end of the one-piece assembly against a wooden surface and remove the top guide bush (1), spacer (2) and the bottom guide bush (3).

Do this operation with extreme caution and hold the one-piece assembly perpendicular to the wooden surface.



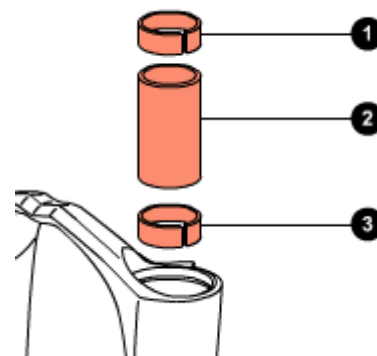
Assembling: Assembling the guide bushes

Fit the bottom guide bush (3).

With the help of spacer (2), press the bottom guide bush into the arch-slider assembly.

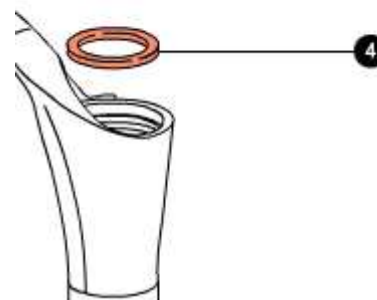
Insert the top guide bush (1) in its seat.

To help the bushes enter their seats you can use the special introducer.



Assembling: Assembling the seals

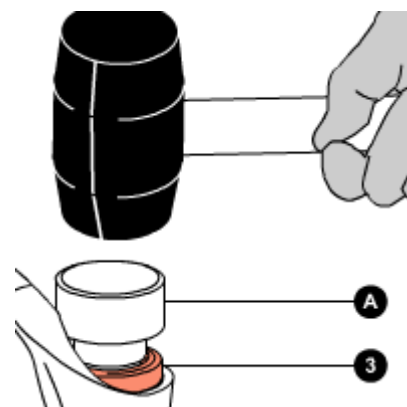
Insert the spring cup (4) in its seat.



Smear the dust seal and the sealing ring with some grease.

Insert the sealing ring (3) in its seat with the special introducer (A).

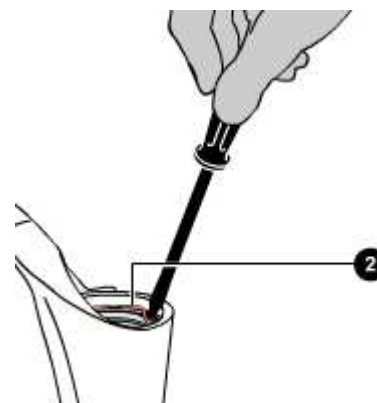
Using a hammer, knock in introducer (A) and drive the sealing ring home into the arch-slider assembly.



Using a small flat-tip screwdriver, fit the stop ring (2) and check that it fits perfectly into its groove.

Take great care not to damage the internal surfaces of the one-piece assembly when fitting the stop ring.

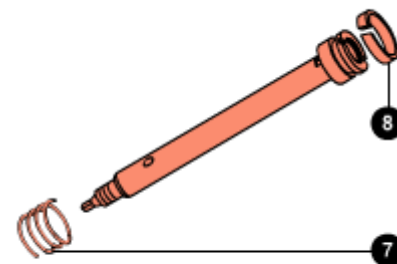
The dust seals shall be refitted when reassembling the crown-stanchion unit / arch-slider assembly.



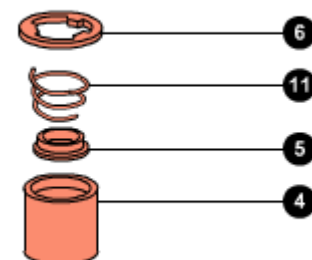
Assembling: Assembling the right pumping element and valve

Replace the segment (8) of the pumping element, if necessary.

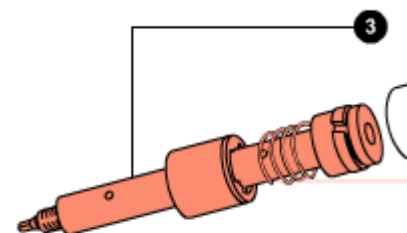
Insert the rebound spring (7) into the piston rod.



Assemble the valve unit in this order: bushing (4), valve (5), conical spring (11), three-point ring (6), and check that the parts are oriented as shown.

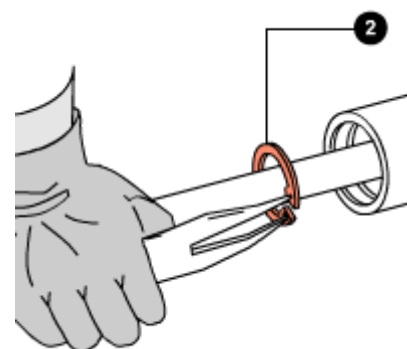


Insert the pre-assembled valve in the piston rod from the three-point ring side as shown. Insert the valve and the pumping element (3) into the stanchion.

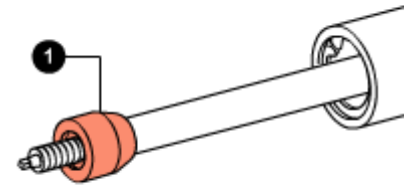


Take great care not to damage the segment and if necessary use a small flat-tip screwdriver to help the piston of the pumping element into the stanchion.

Using the special round-nose pliers, mount the stop ring (2) and check it fits perfectly into its groove.



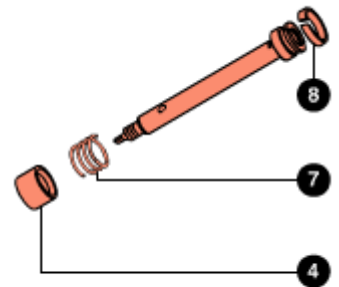
Fit the bottom pad (1) to the pumping element rod.



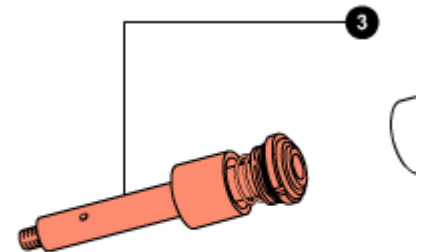
Assembling: Assembling the left pumping element

Replace the segment (8) of the pumping element, if necessary.

Insert the rebound spring (7) and bushing (4) into the stanchion.

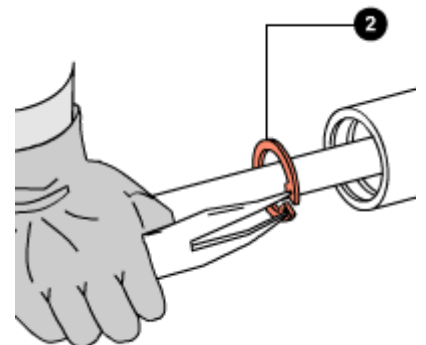


Insert the pumping element (3) into the stanchion.

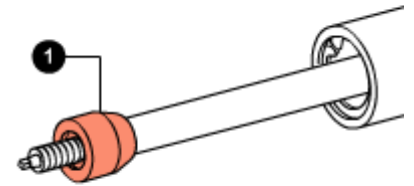


Take great care not to damage the segment and if necessary use a small flat-tip screwdriver to help the piston of the pumping element into the stanchion.

Using the special round-nose pliers, mount the stop ring (2) and check it fits perfectly into its groove.



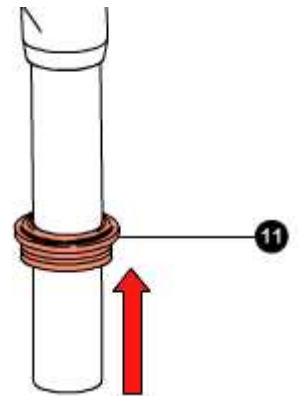
Fit the bottom pad (1) to the pumping element rod.



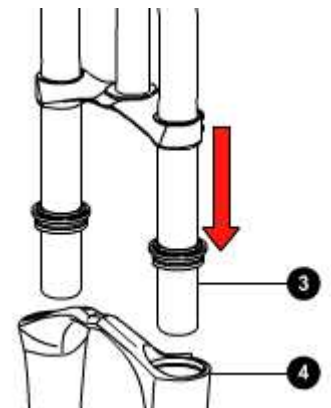
Assembling: Reassembling the steering crown unit / arch-slider assembly

A special spanner shall be used to assemble the bottom nuts. Do not, at any times, use other tools.

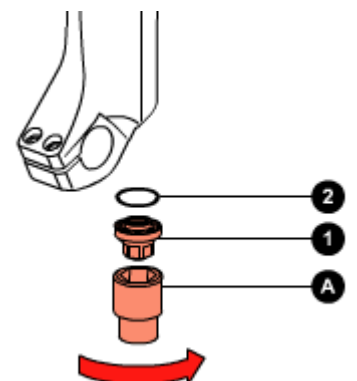
Fit both dust seals (11) to the stanchions.



Insert the crown-stanchion unit (3) in the arch-slider assembly (4).



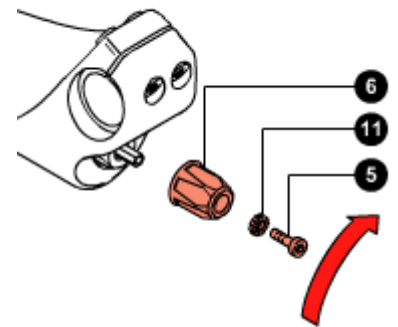
With the special 12mm spanner, tighten the right bottom nut (1) complete with O-ring (2) to the recommended tightening torque ($10 \text{ Nm} \pm 1$).



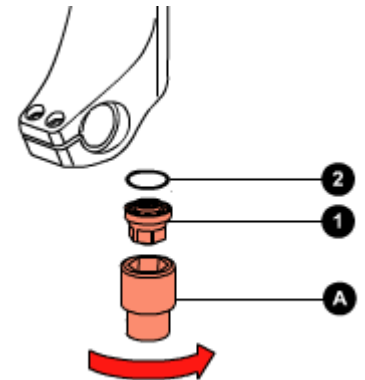
Fit the rebound adjusting knob (6) to the right leg.

Take great care not to damage the O-ring fitted to the end of the pumping element rod.

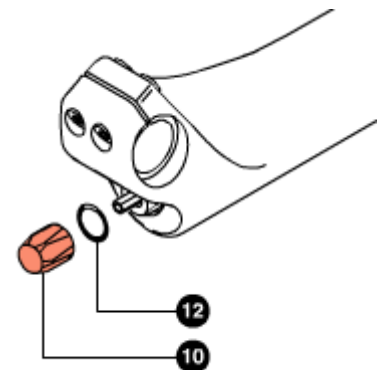
Tighten the fixing screw (5) of the adjusting knob to the recommended tightening torque ($2 \text{ Nm} \pm 0.5$).



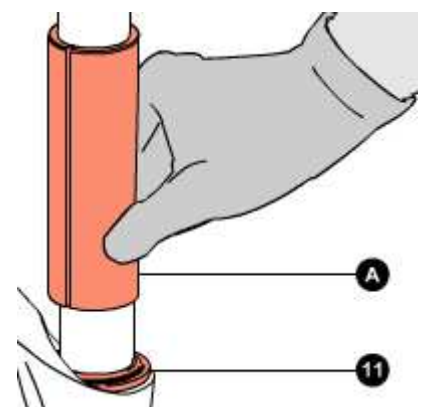
Using the special 12mm spanner, tighten the left bottom screw (1) complete with O-ring (2) to the recommended tightening torque (**10 Nm ± 1**).



Insert the O-ring (12) in its seat on the bottom nut. Refit the compression adjustment knob (10) to the bottom nut locking the same on the O-ring.

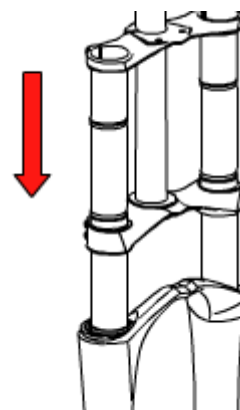


Using introducer (A) insert the dust seals (11) in their seats.

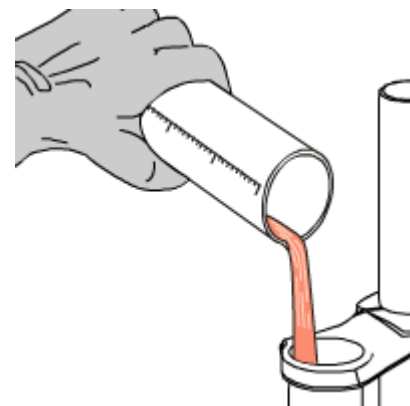


Assembling: Filling with oil

Block the fork in the vice, in perfectly vertical position.
Lower the crown-stanchion unit on the arch-slider assembly.

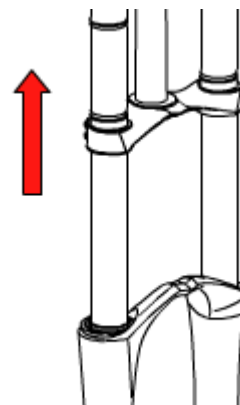


In a graduated recipient, prepare the quantity of oil to pour into the fork leg (see table).
Pour roughly 1/3 of the oil required into each stanchion, then pump the fork a few times to eliminate any traces of air.
Pour the rest of oil in.

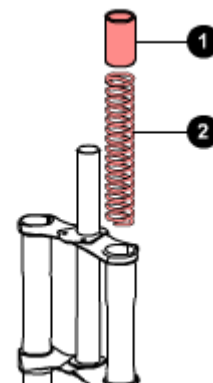


A lower or higher volume or a type of oil other than the one recommended can change the behaviour of the fork in every phase.

Lift the crown-stanchion unit on the arch-slider assembly.



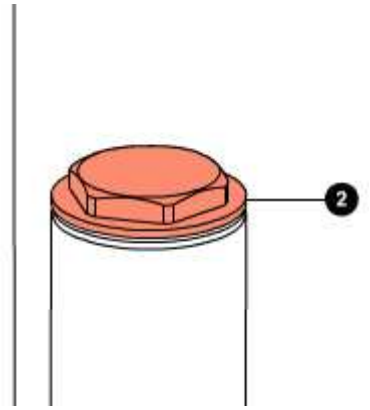
Insert spring (2) and the preload tube (1) in the left leg.



Assembling: Mounting the top caps

Put the fork in the vice in vertical position, fixing it by the dropouts.

Using the 26mm fixed spanner, tighten cap (1) to the recommended tightening torque (**10 Nm ± 1**).



Setting: General rules for calibration

By carefully calibrating the damping system you can get the maximum performance out of the same.

This paragraph indicates the sequence of operations to perform to set up the Marzocchi forks correctly.

In order to find the best settings for you, you will need to try several times to understand where and how to make adjustments. When doing so, please ride in an open area, free from traffic, obstacles and other hazards.

The optimal setting is influenced by the geometry of the frame of the mountain bike, the weight of the cyclist, the type of terrain the bike will be used on and the type of obstacles you have to deal with, but also by subjective factors associated with your riding style; therefore it is impossible to provide objective data on the desired settings.

Nevertheless by carefully following the instructions below you will soon be able to find the optimal setting for you.

The shock absorber must be calibrated simply by using one adjuster at a time, following the order explained, noting the operations and any result step-by-step.

During setting don't force the adjusters beyond their limit of travel and don't exceed the max recommended air pressure.

To keep the pressure inside the fork's legs, only use the special MARZOCCHI pump with pressure gauge.

The use of any other pump can compromise the inflating operation and cause malfunction or damage to the fork, resulting in an accident, personal injury or death.

Once the correct setting has been found, we recommend noting the number of clicks or turns of the adjuster with respect to the "fully closed" position (adjuster fully clockwise) for a faster re-setting of your fork in case of need.

Setting: SAG

SAG means the fork bottoming under the biker's weight.

How to measure the SAG:

Follow these simple steps to measure the SAG.

On the leg portion of the fork, measure the distance between the lower crown and the dust seal (see Picture **A**). Note this value as "**H1**".

While sitting on the bike, repeat the measurement (see picture **B**). Note this value as "**H2**".

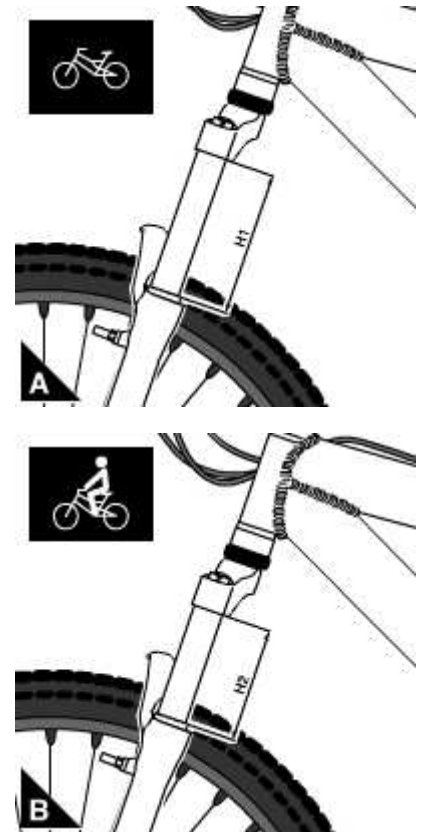
SAG = H1 - H2

How to find the best percent SAG:

The best percent SAG is 15-20% for Cross-country and All Mountain forks and 25-30% for Freeride and Downhill forks.

In order to calculate the best SAG for your own fork, you will need to make the following calculation:

SAG = T x S (**T** = total travel; **S** = suggested sinking percentage).



Setting: Rebound adjustment

Right fork leg:

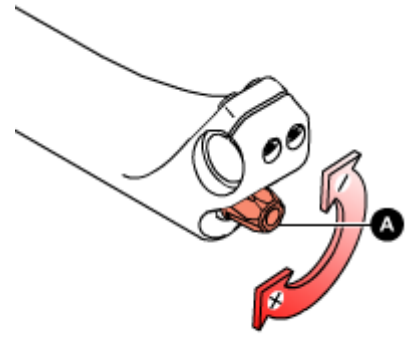
With the rebound adjuster you can control the return speed of the fork after compression.

The right rebound speed setting makes the bike stable letting it follow the variations in the terrain and any obstacles.

If the fork setting is too reactive this will make the rear suspension instable and the mountain bike will have a tendency to snake. A too slow setting however will cause problems when dealing with multiple obstacles where the suspension can't return to its fully extended position fast enough between one obstacle and the next.

Turning adjuster (**A**) clockwise increases the hydraulic damping making the fork slower during the rebound phase.

Turning adjuster (**A**) counter-clockwise decreases the hydraulic damping making the fork more reactive during the rebound phase.



Do not force the adjuster beyond its limit of travel.

Tightening torques

Components	Tightening torque (Nm)
Adjuster locking screws	2±0,5
Bottom crown fixing screws	6±1
Fender fixing screws	6±1
Fork leg top caps	10±1
Handlebar fixing screws	6±1
Pumping element/cartridge bottom nuts	10±1
Top crown fixing screws	6±1
Wheel axle Allen screws	6±1
Wheel axle screws	15±1

888 VF - 170 - Oil levels

Position	Oil type	Quantity (cc)
Right fork leg	SAE 7,5 - 550013	240
Left fork leg	SAE 7,5 - 550013	240

888 VF - 200 - Oil levels

Position	Oil type	Quantity (cc)
Right fork leg	SAE 7,5 - 550013	240
Left fork leg	SAE 7,5 - 550013	240

Diagnostics

Finding the problem	Finding the possible cause	Possible solutions proposed
Anomalous noise from TAS cartridge	TAS cartridge damaged	Overhaul or replace the TST cartridge
Fork doesn't get full travel	Oil level too high	Check oil levels
Fork extends too quickly; harsh top-out after impacts	Rebound damping is not enough	Increase rebound damping
Fork extends too quickly; harsh top-out after impacts	Rebound damping is not enough	Replace the oil (SAE 7.5) with one of higher viscosity index
Fork has too much sag	Oil is too fluid	Check oil levels
Fork is "sticky"; fork does not perform as new	Dirty sealing rings; fork needs to be serviced	Renew all seals
Fork is too soft, but the sag is the one recommended	Compression damping is not enough	Increase compression damping by changing oil volumes
Fork is too soft, needs more than the maximum preload	Oil is too fluid	Check oil levels
Fork stays down or "packs up" during multiple impacts	Rebound damping is too high	Decrease rebound damping with the relevant register
Front wheel tends to tuck under while turning left or right	Rebound damping is too high	Decrease rebound damping with the relevant register
Heavy amount of oil on stanchions; oil dripping down legs	Sealing rings damaged	Renew all seals
Heavy amount of oil on stanchions; oil dripping down legs	The stanchion tubes could be damaged	Have the stanchions be checked
Knocking sound during rebound, but no harsh top-out	Rebound damping is too high	Decrease rebound damping with the relevant register
Loss of sensitivity	Old oil	Change the oil
Loss of sensitivity	Sliding bushes worn	Renew the sliding bushes
Oil leaking from the bottom of the fork leg	Bottom nut/screw loose	Tighten the nut or screw
Oil ring on stanchions	Sealing rings dirty	Renew all seals
The TAS control turns during use	TAS cartridge damaged	Overhaul or replace the TST cartridge