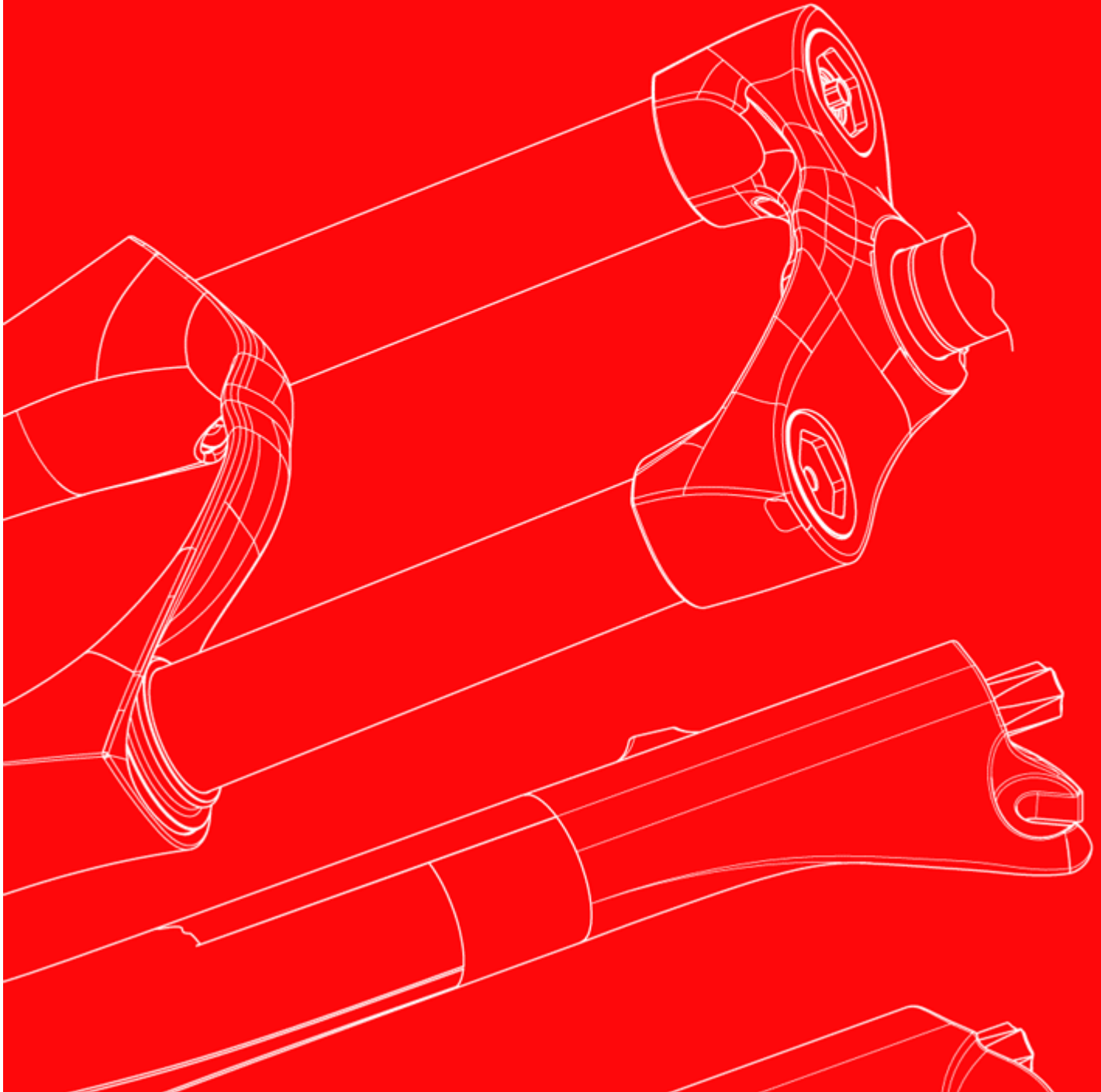


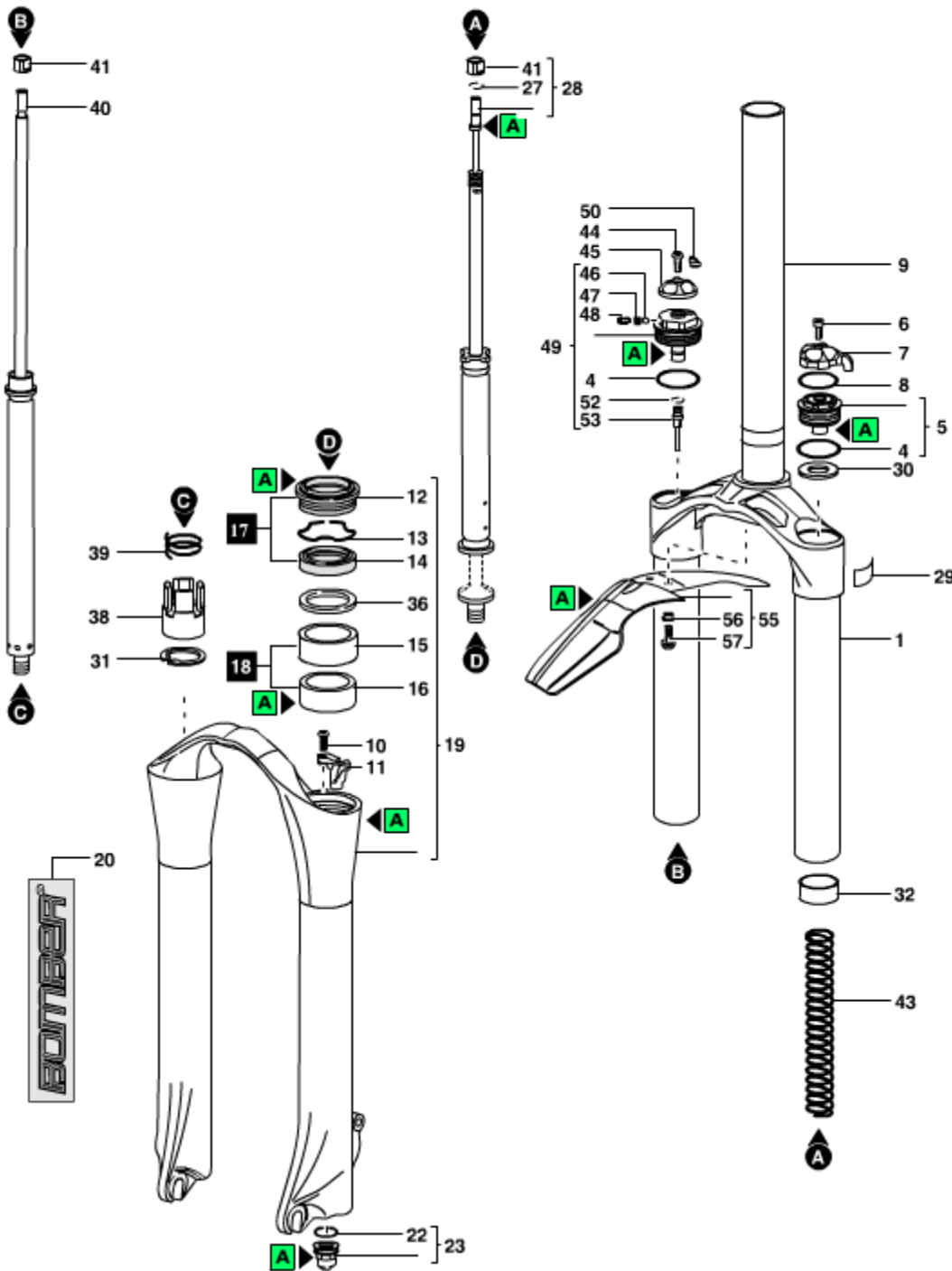
**marzocchi**  
WWW.MARZOCCHI.COM



# 2005 - All Mountain 2 HSCV ETA

Technical instructions

**Exploded view - All Mountain 2 HSCV+ETA 150**



Rif. Code	Quantity
1 818255/E	1
1 818255/A	1
1 818255/R	1
4 528226	2
5 701255/C	1
6 520363	1
7 549077AQ	1
8 528149	1
9 508995/C	1
9 508963CD/R	1
10 520341	1
11 5321153>A	1
12 533297	2
13 523261	2
14 528230>A	2
15 538115	2
16 538114	2
19 5321202SW/AM>A	1
19 5321202RS/AM>A	1
19 5321202RR/AM>A	1
19 5321202RP/AM>A	1
19 5321202RA/AM>A	1
19 5321202RB/AM>A	1
19 5321202ST/AM>A	1
19 5321202SS/AM>A	1
19 5321202RT/AM>A	1
19 5321202SR/AM>A	1
20 547608	1
22 528046	2
23 5321130>B	2
27 528243	1
28 703700KM/C	1
29 547640	1
29 547637	1
29 547636	1
30 522387	1
31 523300	1
32 5181224	1
36 522403>A	2
38 509145	1
39 5141123/C	1
40 703737LA/C	1
41 521142IW>A	2
43 5141278	1
44 520313	1
45 549081AQ	1
46 525007	1
47 5141137>A	1
48 520220AA	1
49 701275/C	1
50 531076	1
52 528180	1
53 5321188	1
55 850760/C	1
56 526143RX	2
57 520342AR	2

**All Mountain 2 HSCV+ETA 150 - Oil levels**

Position	Oil type	Quantity (cc)
Right fork leg	SAE 7,5 - 550013	155
Left fork leg	SAE 7,5 - 550013	170

**Spare part list - All Mountain 2 HSCV+ETA 150**

Rif.	Code	Description	Q.ty in the model
1	818255/E	<b>CROWN+STANCH+ALLOY STEM AM 05</b>	1
1	818255/A	<b>CROWN+STANCH+STEEL STEM AM 05</b>	1
1	818255/R	<b>CROWN+STANCHION ALL M.05</b>	1
4	528226	<b>O-RING</b>	2
5	701255/C	<b>ETA PLUG UNIT Z150 04</b>	1
6	520363	<b>SCREW</b>	1
7	549077AQ	<b>KNOB</b>	1
8	528149	<b>O-RING</b>	1
9	508995/C (replaces 508993/C)	<b>REINFORCED ALLOY STEM+++</b>	1
9	508963CD/R	<b>STEEL STEER TUBE D.30</b>	1
10	520341	<b>SCREW</b>	1
11	5321153>A	<b>CABLE GUIDE</b>	1
12	533297	<b>DUST SEAL DIA.32</b>	2
13	523261	<b>STOP RING</b>	2
14	528230>A	<b>OIL SEAL DIA.32</b>	2
15	538115	<b>UPPER BUSHING DIA.32</b>	2
16	538114	<b>LOWER BUSHING DIA.32</b>	2
19	5321202SW/AM>A	<b>DESERT STORM BEIGE-MONOL.UNIT</b>	1
19	5321202RS/AM>A	<b>ECO BLACK -MONOLITE UNIT</b>	1
19	5321202RR/AM>A	<b>FLAT BLACK- MONOLITE UNIT</b>	1
19	5321202RP/AM>A	<b>FLAT TITAN- MONOLITE UNIT</b>	1
19	5321202RA/AM>A	<b>GUN MET.GREY-MONOLITE UNIT</b>	1
19	5321202RB/AM>A	<b>GUN-MET.GREY-FLAT.MONOL.UNIT</b>	1
19	5321202ST/AM>A	<b>MAGNUM GREY FLAT-MONOL.UNIT</b>	1
19	5321202SS/AM>A	<b>MAGNUM GREY GLOSS-MONOL.UNIT</b>	1
19	5321202RT/AM>A	<b>SILVER -MONOLITE UNIT</b>	1
19	5321202SR/AM>A	<b>SILVER DUST -MONOLITE UNIT</b>	1
20	547608	<b>RH+LH LABELS ALL MOUNT.2 05</b>	1
22	528046	<b>O-RING</b>	2
23	5321130>B	<b>FOOT NUT UNIT</b>	2
27	528243	<b>O-RING</b>	1
28	703700KM/C	<b>ETA CARTRIDGE Z150/04</b>	1
29	547640	<b>ETA 2005 EXTERNAL LABEL</b>	1
29	547637	<b>ETA 2005 LABELS-TOP</b>	1
29	547636 (replaces 547585)	<b>REBOUND ADJUSTER STICKER 05</b>	1
30	522387	<b>WASHER</b>	1
31	523300	<b>STOP RING</b>	1
32	5181224	<b>PRELOAD SLEEVE</b>	1
36	522403>A	<b>WASHER</b>	2
38	509145	<b>FERRULE</b>	1
39	5141123/C	<b>REBOUND SPRING KIT</b>	1
40	703737LA/C	<b>REBOUND CARTRIDGE TR.130</b>	1
41	521142IW>A	<b>NUT</b>	2
43	5141278	<b>SPRING</b>	1
44	520313	<b>SCREW</b>	1
45	549081AQ	<b>ADJUSTER KNOB</b>	1

46	525007	<b>SET SCREW, REAR SHOCK</b>	1
47	5141137>A	<b>SPRING</b>	1
48	520220AA	<b>SCREW</b>	1
49	701275/C	<b>ALL MOUNTAIN PLUG UNIT</b>	1
50	531076	<b>AIR RUBBER</b>	1
52	528180	<b>OR 2015 (D3.69 S1.78)</b>	1
53	5321188	<b>ADJUSTER PIN</b>	1
55	850760/C	<b>FENDER UNIT</b>	1
56	526143RX	<b>FENDER BUSHINGS</b>	2
57	520342AR	<b>FENDER SCREW</b>	2

**Technical characteristics: Technical characteristics**

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Single-crown fork with  $\varnothing$  32mm legs.

**Available travels:** 150 mm.

**Right fork leg damping element:** air.

**Left fork leg damping element:** spring.

**Right fork leg damping system:** HSCV cartridge with external rebound adjustment.

**Left fork leg damping system:**ETA cartridge.

The stanchion tubes are pressed into the crown with a cryogenic process.

New sliding system to improve stiffness and operation.

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

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

**Crown:** BAM® 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.

**Springs:** constant pitch.

**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:** standard.

**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.

**BAM® : Bomber Aerospace Material: special alloy coming from the aerospace industry.**

## Warnings: Instructions for use

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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

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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.

## Warnings: Installing the disk brake

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

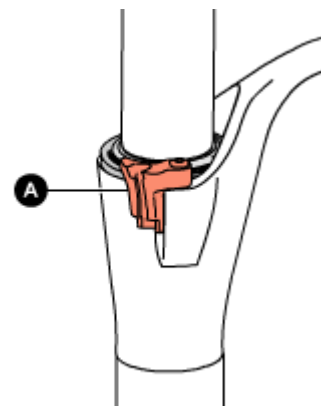
Marzocchi is not responsible for the installation and accepts no liability for damage and/or accidents arising from this operation.

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).**



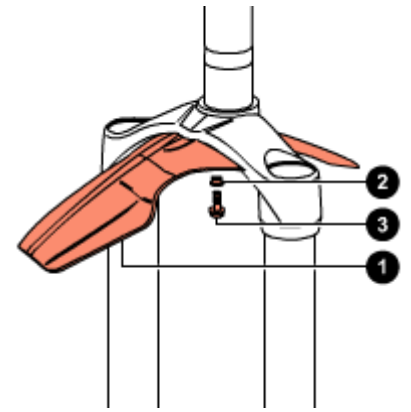
**The brake cable must never touch the crown and stanchions.**

## Warnings: Assembling the fender

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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  $\pm$ 1).



### Warnings: Assembling the wheel

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#### **Install the wheel following the instructions of the manufacturer.**

For a correct operation of the fork, install the wheel and proceed with the following checks:

Check the correct fork-wheel alignment by fully compressing the fork a few times. The wheel should not come into contact with any parts of the fork.

Lift the front wheel above the ground; turn the wheel a few times to verify the correct alignment and the distance from the disk brake. Read the instructions of the brake system manufacturer for the correct specifications.

### Dismantling: Removing the top caps

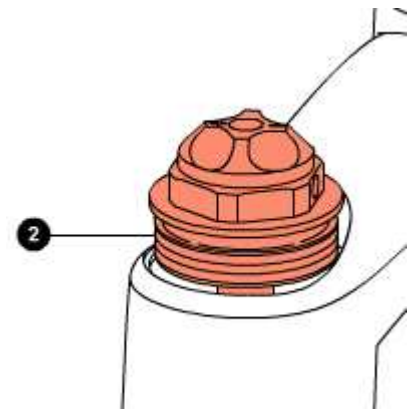
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Put the fork in the vice in vertical position, fixing it by the dropouts.

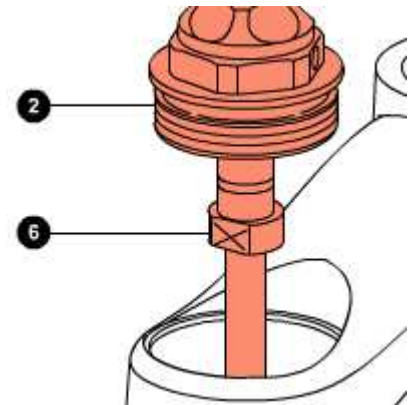
### Dismantling: Removing the top right cap

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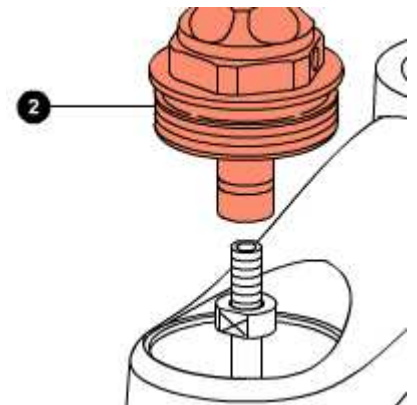
Fully unscrew lock cap (2) using a 21mm socket spanner.  
Lift out lock cap (2).



Holding locknut (6) with the 10mm key, use the 21mm key to unscrew lock cap (2).



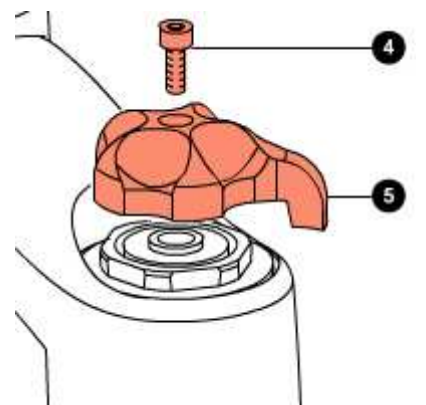
Remove lock cap (2).



### Dismantling: Removing the top left cap

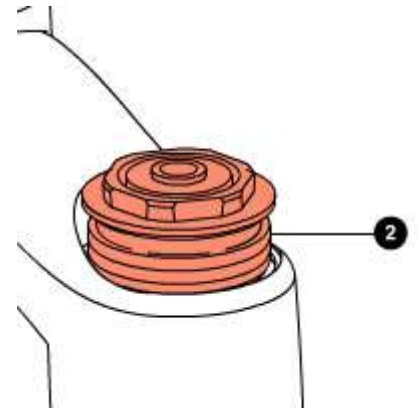
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With a 2mm Allen wrench loosen screw (4).  
Remove first the screw (4), then the ETA control knob (5).

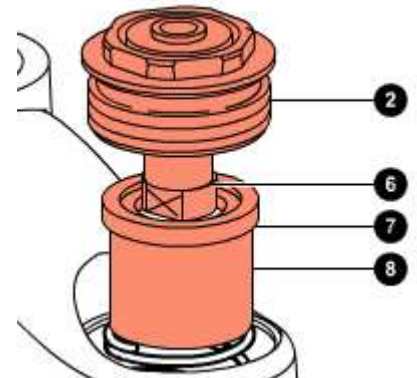




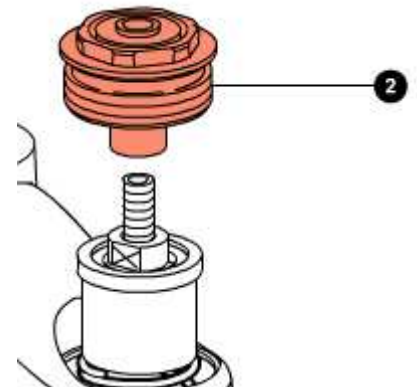
Fully unscrew lock cap (2) using a 21mm socket spanner.  
Lift out lock cap (2).



Push washer (7) and the preload tube (8) downwards so you can reach locknut (6) with the 10mm spanner.  
Holding locknut (6) with the 10mm spanner, use the 21mm spanner to unscrew lock cap (2) completely.

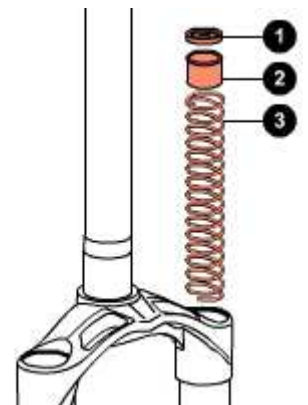


Remove lock cap (2).



### Dismantling: Draining the oil

Remove washer (1), the preload tube (2) and spring (3) from the left leg.



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.**

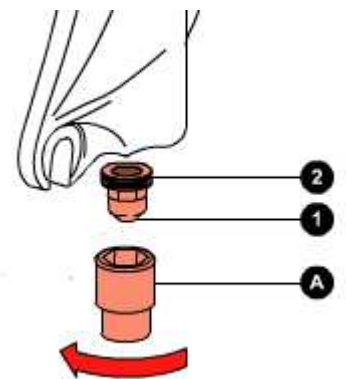


### Dismantling: Breaking down the steering crown unit / arch-slider assembly

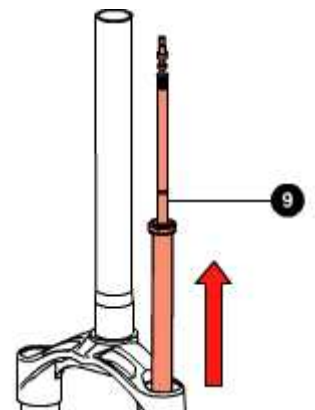
**Use the special spanner to remove the bottom nuts. Do not use other tools.**

Turn the arch-slider assembly upside down.

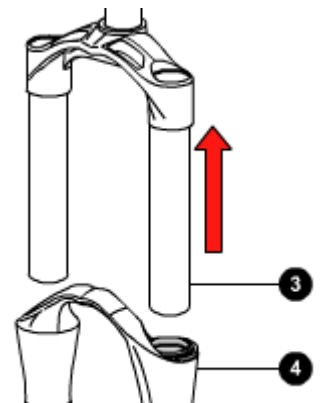
Using the special 12mm spanner (**A**), loosen the bottom nuts (**1**) of both legs.  
Pull the bottom nuts (**1**) complete with O-rings (**2**) out of both legs.



Pull the complete ETA cartridge (**9**) off the left leg.

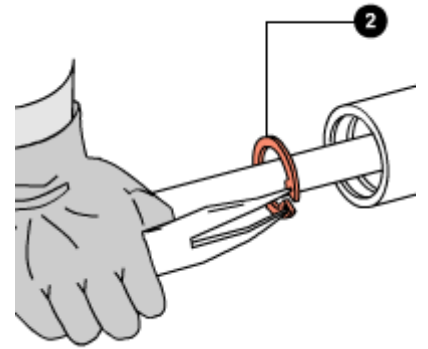


Pull the crown-stanchion unit (**3**) off the arch-slider assembly (**4**).

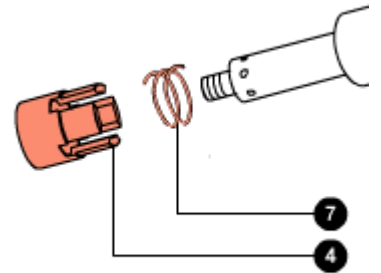


### Dismantling: Dismantling the right pumping element and valve

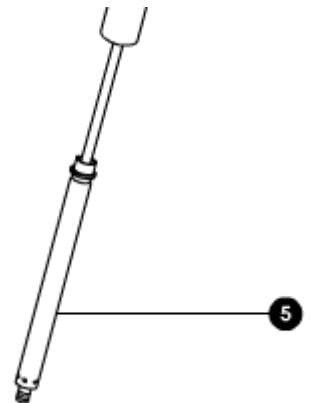
Using the special round-nose pliers, remove stop ring (**2**).



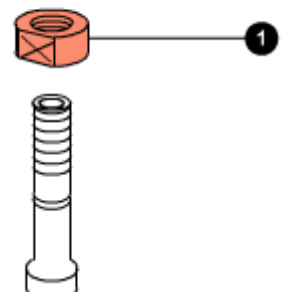
Remove bushing (4) and rebound spring (7) from the stanchion tube.



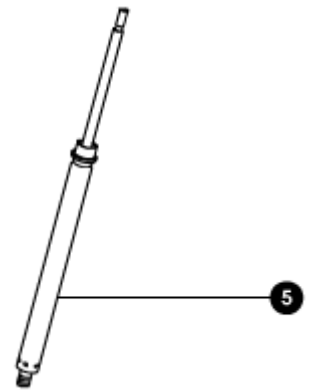
Remove the complete hydraulic cartridge (5) from the stanchion tube.



Loosen and remove nut (1) with a 10mm fixed spanner.



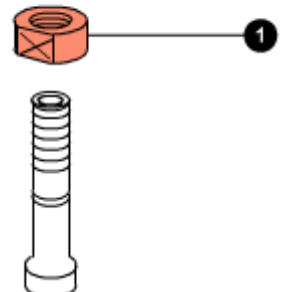
**The hydraulic cartridge (5) has been sealed through machining and cannot be overhauled. In the case of faults or a malfunctioning, this cartridge must be replaced.**



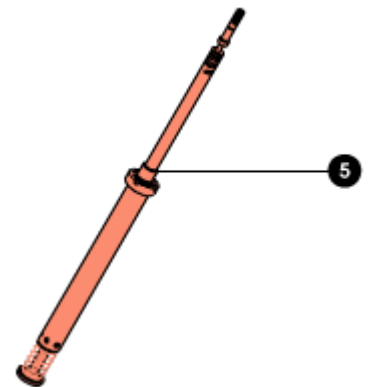
### Dismantling: Dismantling the ETA cartridge

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Loosen and remove nut (1) with a 10mm fixed spanner.



The ETA cartridge (5) has been sealed through machining and cannot be overhauled. In the case of faults or a malfunctioning, this cartridge must be replaced.

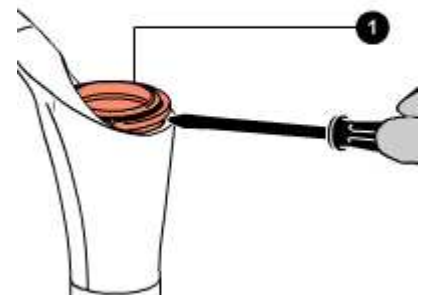


### Dismantling: Removing the seals

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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.**

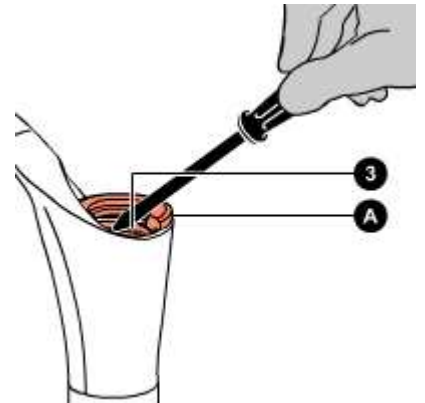


Protect the upper part of the slider with the special tool (A).

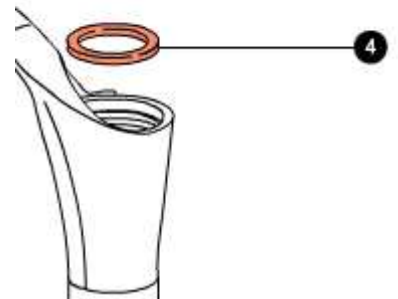
With a screwdriver, prize off the sealing ring (3).

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).



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

### Dismantling: Removing the guide bushes

**Use the special extractor to remove the guide bushes. Do not use other tools.**

Fit the aluminium bush (A) to the extractor keeping the side with larger diameter towards the edge opposite to striker (D).

Fit the extraction washer (B) with a black finish to the extractor.

**During use, remove the non-used washer from the extractor.**

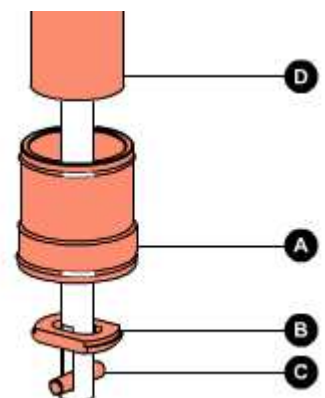
**Remove first the top bushes, then the bottom bushes.**

Fit the extraction washer keeping the blunt side towards the threaded grub screw (C) fixed crosswise on to the main rod as shown.

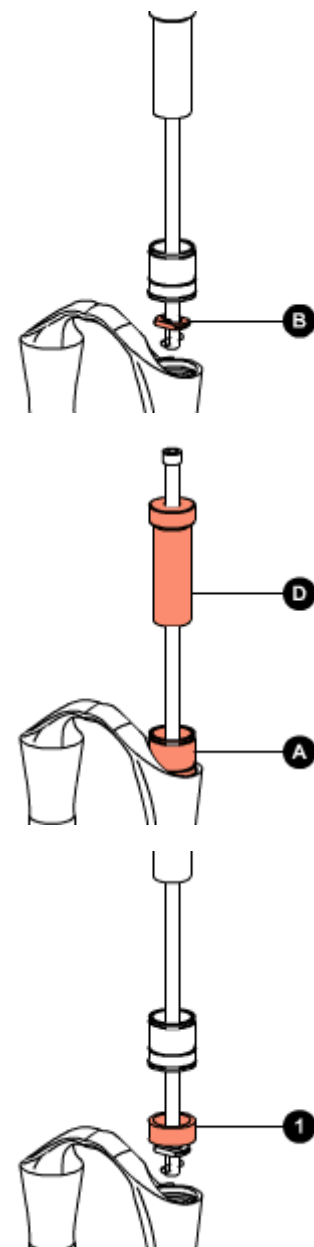
The slot in the rod lets the extraction washer swing inside the rod itself.

Insert the extractor in the arch-slider assembly from the side of washer (B) as shown.

The slot in the extractor rod will let the washer pass underneath the bush to be extracted.



Pull the extractor rod so that the upper face of the washer stops against the lower face of the guide bush.  
Insert the aluminium bush (A) in the seat of the sealing ring.  
While holding the main rod in position, the aluminium bush will drive the guide bushes during extraction.  
Using striker (D) knock out and extract the guide bush (1).  
Remove the guide bush (1) from the extractor.  
Repeat the steps above to remove the bottom guide bush.

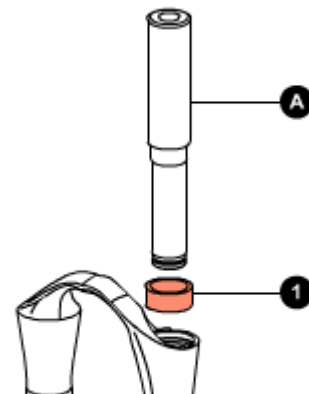


### Assembling: Assembling the guide bushes

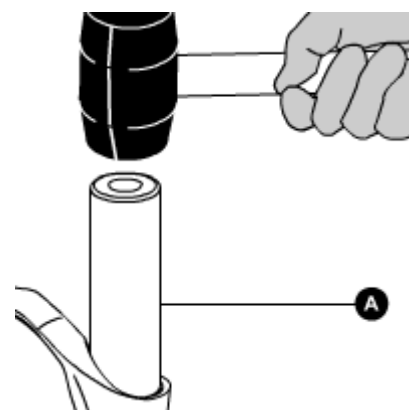
Insert the guide bushes using the special introducers (short type for the top bush and long type for the bottom bush, both with a white finish). Do not use other tools.

Fit first the bottom bushes, then the top bushes.

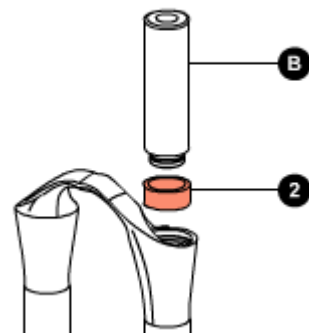
Using the long introducer (A) fit the bottom bush (1).



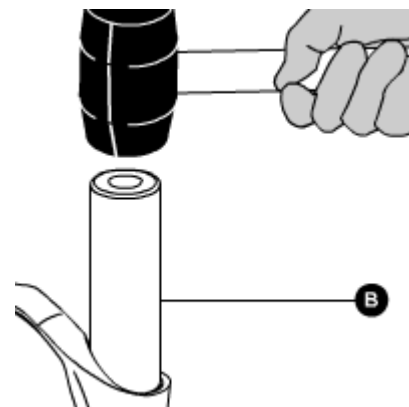
Using a hammer knock the introducer (A) into the arch-slider assembly.



Using the short introducer (B) fit the top bush (2).



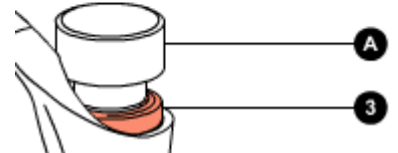
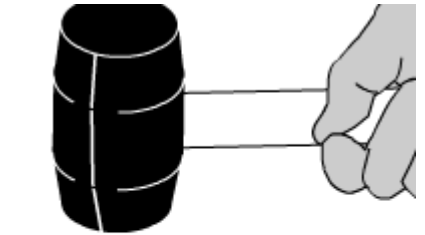
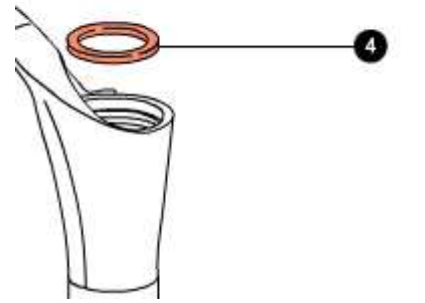
Using a hammer knock the introducer (B) into the arch-slider assembly.



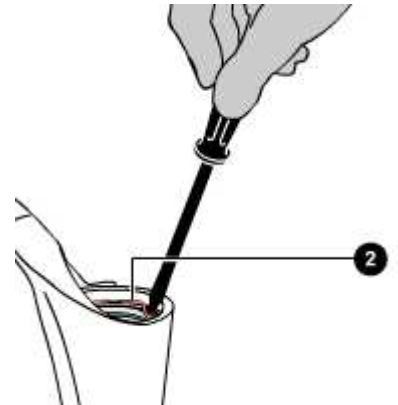
### Assembling: Assembling the seals

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.

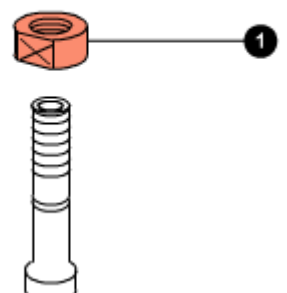


### Assembling:

During the assembly of the pumping unit, strictly obey the instructions below.  
Do not, at any times, reverse the position of the pumping elements in the fork legs (if you are unsure about anything, please refer to the relevant exploded view).

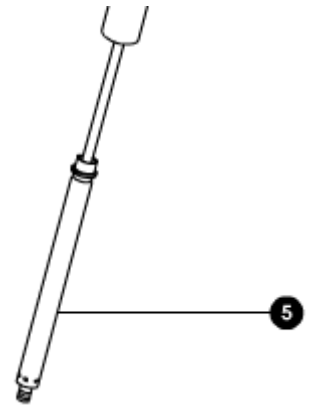
### Assembling: Assembling the right pumping element and valve

Screw down nut (1) without tightening.

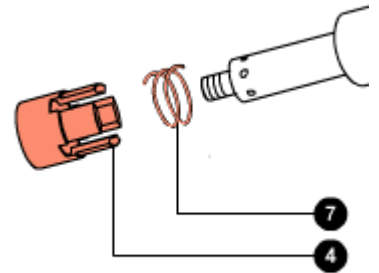




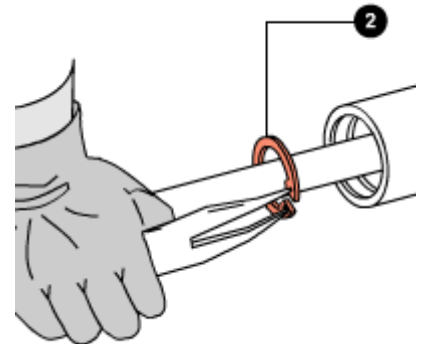
Insert the complete hydraulic cartridge (5) into the stanchion.



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



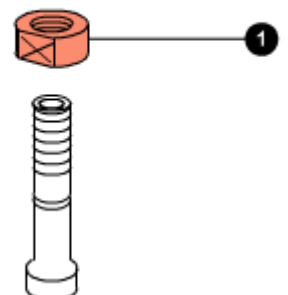
Using the special round-nose pliers, mount the stop ring (2) and check it fits perfectly into its groove.



### Assembling: Assembling the ETA cartridge

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Screw down nut (1) without tightening.



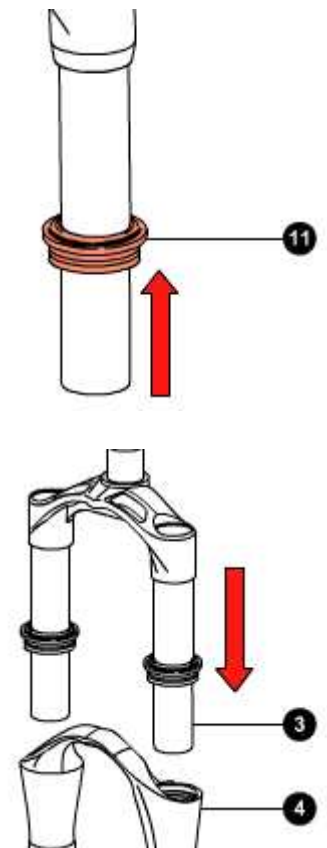
### Assembling: Reassembling the steering crown unit / arch-slider assembly

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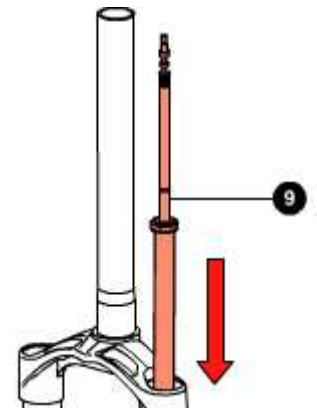
**A special spanner shall be used to assemble the bottom nuts. Do not, at any times, use other tools.**

Fit both dust seals (11) to the stanchions.

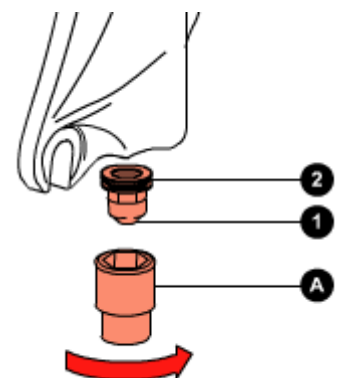
Insert the crown-stanchion unit (3) in the arch-slider assembly (4).



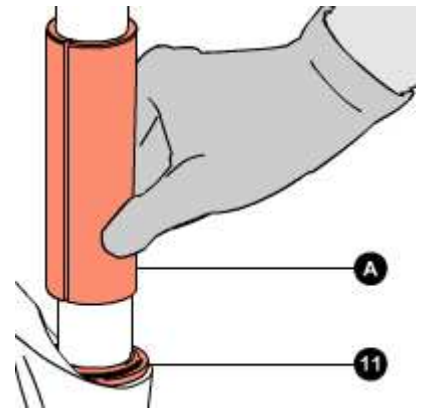
Insert the complete ETA cartridge (9) in the left leg.



Using the special 12mm spanner (A), tighten the bottom nuts (1) complete with O-rings (2) of both legs to the recommended tightening torque ( $10 \text{ Nm} \pm 1$ ).

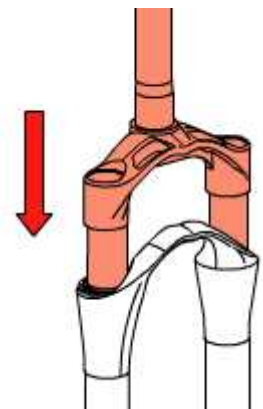


Using introducer (A) insert the dust seals (11) in their seats.

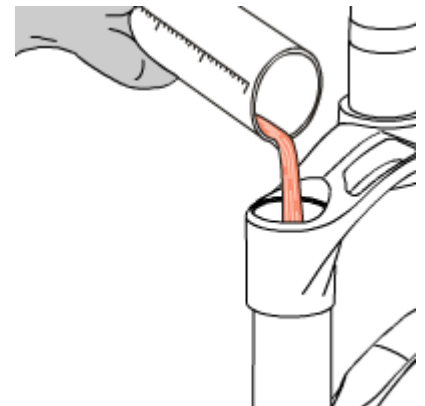


### Assembling: Filling with oil

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

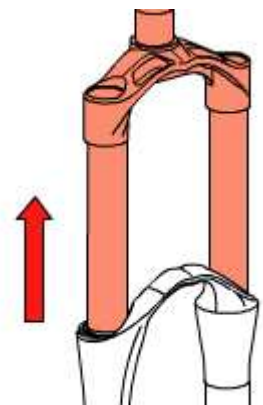


In a graduated recipient, prepare the quantity of oil to pour into the fork leg (see table).  
Pour roughly 1/3 of the oil required into each stanchion, then pump the fork a few times to eliminate any traces of air.  
Pour the rest of oil in.

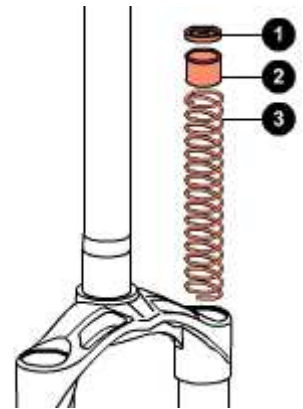


**A lower or higher volume or a type of oil other than the one recommended can change the behaviour of the fork in every phase.**

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



Insert spring (3), the preload tube (2) and washer (1) in the left leg.

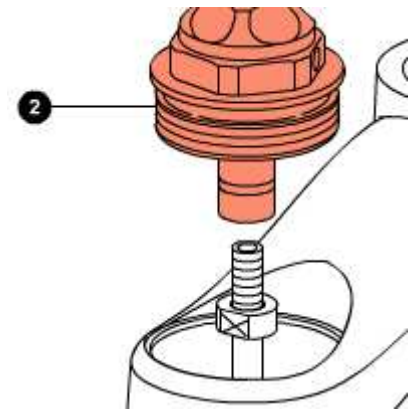


### Assembling: Mounting the top caps

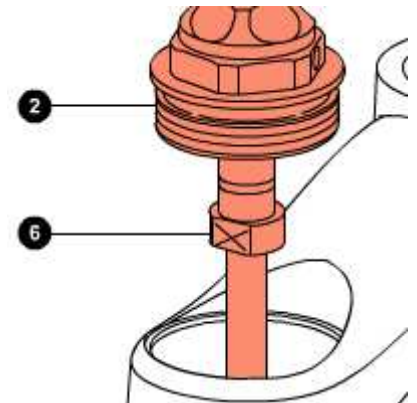
Put the fork in the vice in vertical position, fixing it by the dropouts.

### Assembling: Assembling the top right cap

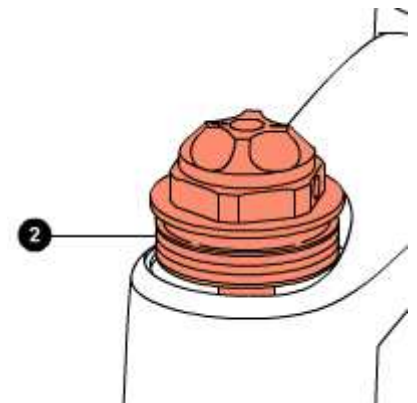
Screw the lock cap (2) down on the cartridge rod without tightening being very careful not to damage the O-ring.



Using the 10mm and 21mm spanners, tighten locknut (6) on cap (2) to the recommended tightening torque (**6 Nm ± 1**).

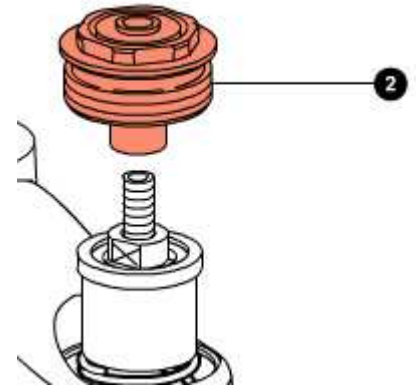


With the 21mm socket spanner, tighten the lock cap (2) on the steering crown to the recommended tightening torque (**10 Nm ± 1**).



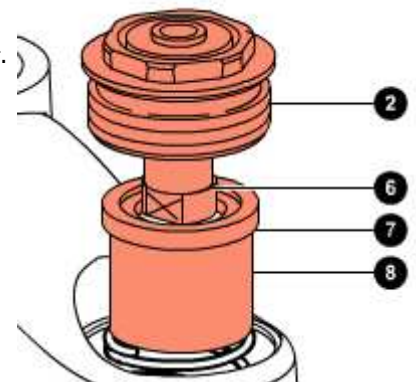
### Assembling: Assembling the top left cap

Screw the lock cap (2) down on the rod of the ETA cartridge without tightening being very careful not to damage the O-ring.

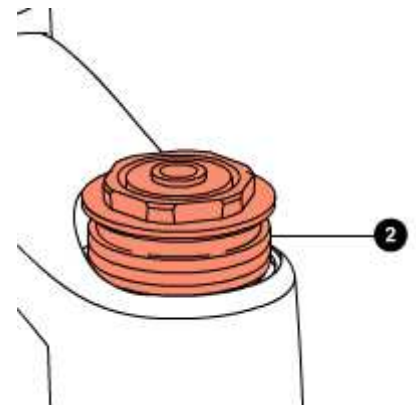


Screw the lock cap (2) down on the rod of the ETA cartridge without tightening being very careful not to damage the O-ring.

Push washer (7) and the preload tube (8) downwards so you can reach locknut (6) with a 10mm spanner. Using the 10mm and 21mm spanners, tighten locknut (6) on cap (2) to the recommended tightening torque (**6 Nm ± 1**).

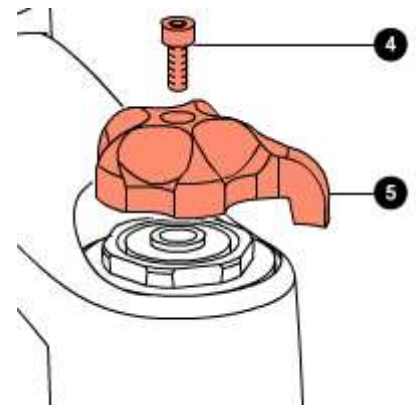


With the 21mm socket spanner, tighten the lock cap (2) on the steering crown to the recommended tightening torque (**10 Nm ± 1**).



Fit the ETA control knob (5) and screw (4).

Using a 2mm Allen wrench, tighten the knob fixing screw (4) to the recommended tightening torque (**2 Nm ± 0.5**).



## 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**".

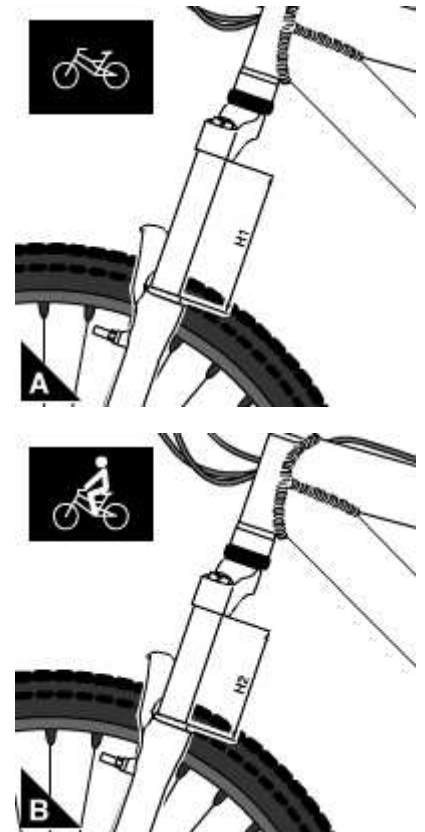
**SAG = H1 - H2**

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: Positive air

Positive air is the elastic element of air damped forks.

Use the MARZOCCHI pump with pressure gauge to inflate the fork legs.

**Using inadequate tools may lead to a wrong inflation and result in a malfunctioning or damage to the fork.**

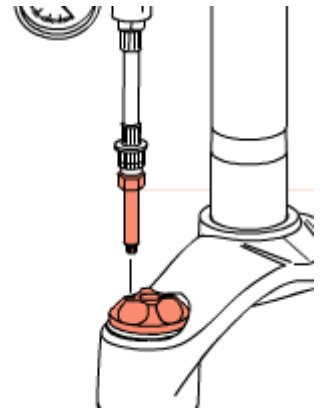
If you need to reduce the leg pressure, simply push the valve pin down with a pointed tool such as a small pin extractor.

### Right fork leg:

Remove the rubber protection cap marked with 'AIR' and turn the knob to reach the air valve.

Tighten the threaded pump adapter on the air valve and inflate till reaching the required pressure.

Refit the rubber protection cap and re-calibrate using the adjuster.



The pressure values in the table are given as a mere example and can be changed to meet the biker's riding style and the track condition.

### Setting: Rebound adjustment

#### Right fork leg:

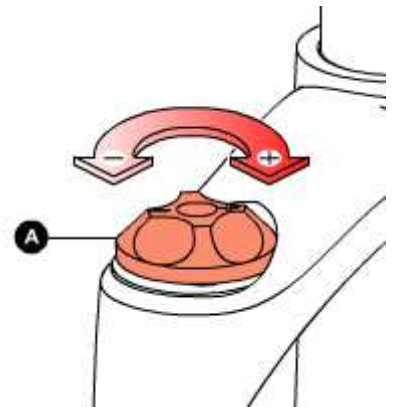
With the rebound adjuster you can control the return speed of the fork after compression.

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.**

### Setting: ETA

#### Left fork leg:

The ETA cartridge lets you adjust the rebound damping "on the fly" reducing the fork length down to a 30mm travel.

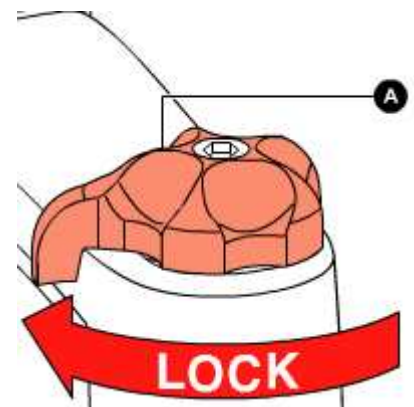
The control has two positions:

##### Pos: LOCK

Turning knob **(A)** clockwise activates the ETA cartridge function.

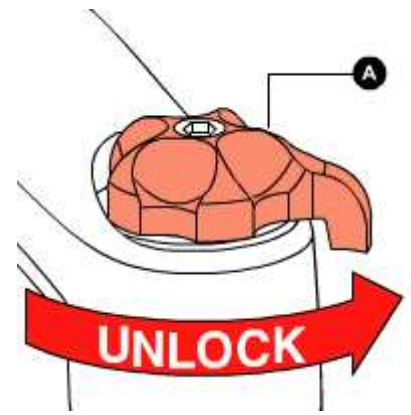
In this position, the fork legs stay down when hitting an obstacle; any other impact will lower the bike's geometry further.

This position is recommended to face steep and demanding uphill.



##### Pos: UNLOCK

Turning knob **(A)** counter-clockwise brings the fork back to normal function and deactivates the ETA cartridge.



**NEVER** use the "LOCK" position when riding on steep downhills. Failure to comply with these instructions could cause your fork not to react safely enough when hitting an obstacle, resulting in a loss of control of the bicycle, damage and serious or lethal injury.



## Tightening torques

Components	Tightening torque (Nm)
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## Air pressures

### Positive air pressure

User weight		Air pressure	
kg.	lb.	bar	psi
55 - 70	121 - 154	2,00 - 2,75	2.900,00 - 3.987,50
70 - 80	154 - 176	2,40 - 3,10	3.480,00 - 4.495,00
80 - 95	176 - 209	2,90 - 3,80	4.205,00 - 5.510,00
95 - 110+	209 - 242	3,60 - 4,50	5.220,00 - 6.525,00

## All Mountain 2 HSCV+ETA 150 - Oil levels

Position	Oil type	Quantity (cc)
Right fork leg	SAE 7,5 - 550013	155
Left fork leg	SAE 7,5 - 550013	170

**Diagnostics**

Finding the problem	Finding the possible cause	Possible solutions proposed
Fork doesn't get full travel	Oil level too high	Check oil levels
Fork doesn't get full travel	Spring rate too stiff	Change to softer spring rate
Fork doesn't get full travel	Spring rate too stiff	Decrease air pressure
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 has too much sag	Spring rate too soft	Change to stiffer spring rate
Fork has too much sag	Spring rate too soft	Increase air pressure
Fork has too much sag	Spring rate too soft	Increase spring preload by replacing the preload tube
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 is too soft, needs more than the maximum preload	Spring rate too soft	Change to stiffer spring rate
Fork is too soft, needs more than the maximum preload	Spring rate too soft	Increase air pressure
Front wheel tends to tuck under while turning left or right	Spring rate too soft	Change to stiffer spring rate
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
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