

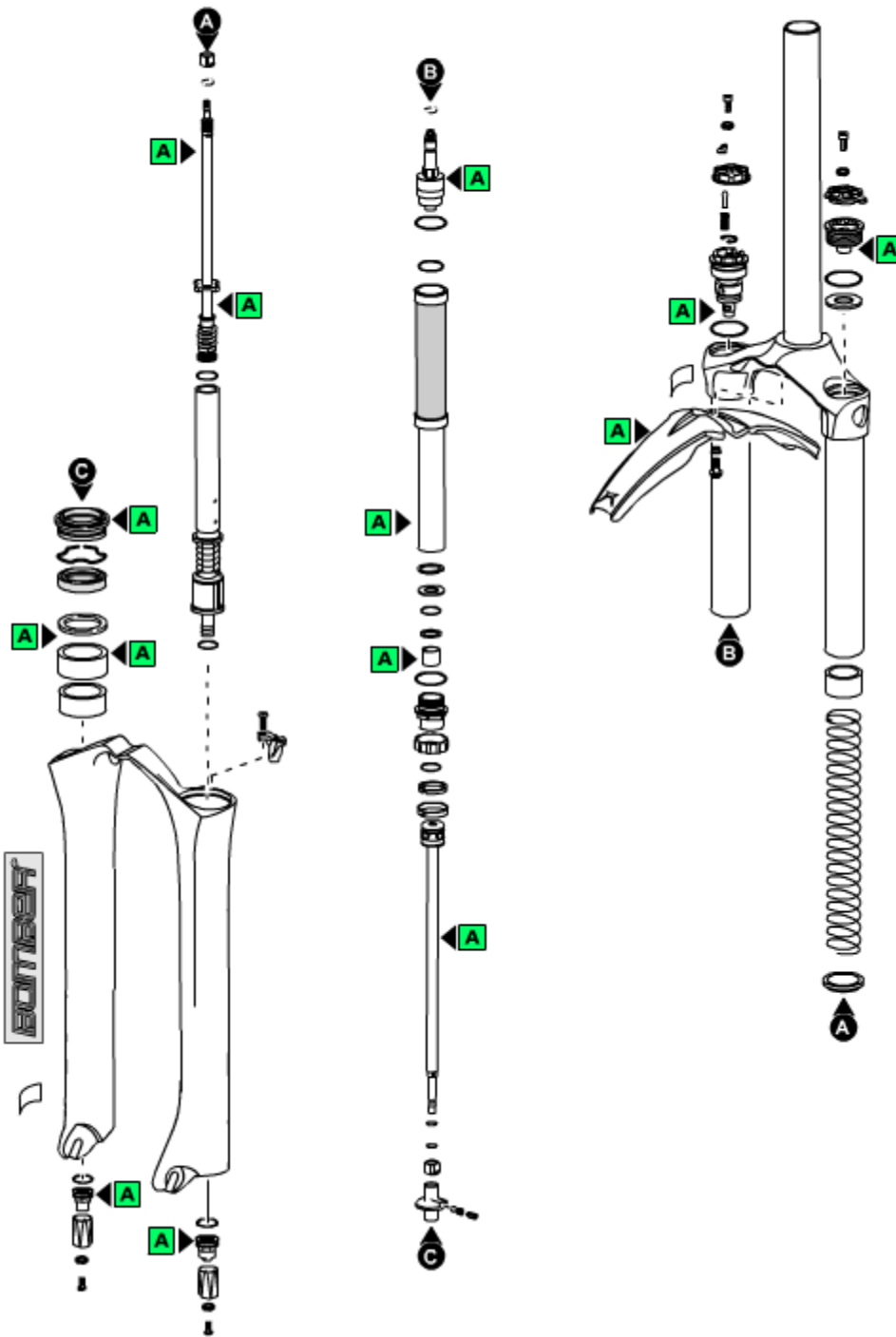
**marzocchi**  
WWW.MARZOCCHI.COM



# 2006 - All Mountain I

Technical instructions

Exploded view - All Mountain 1



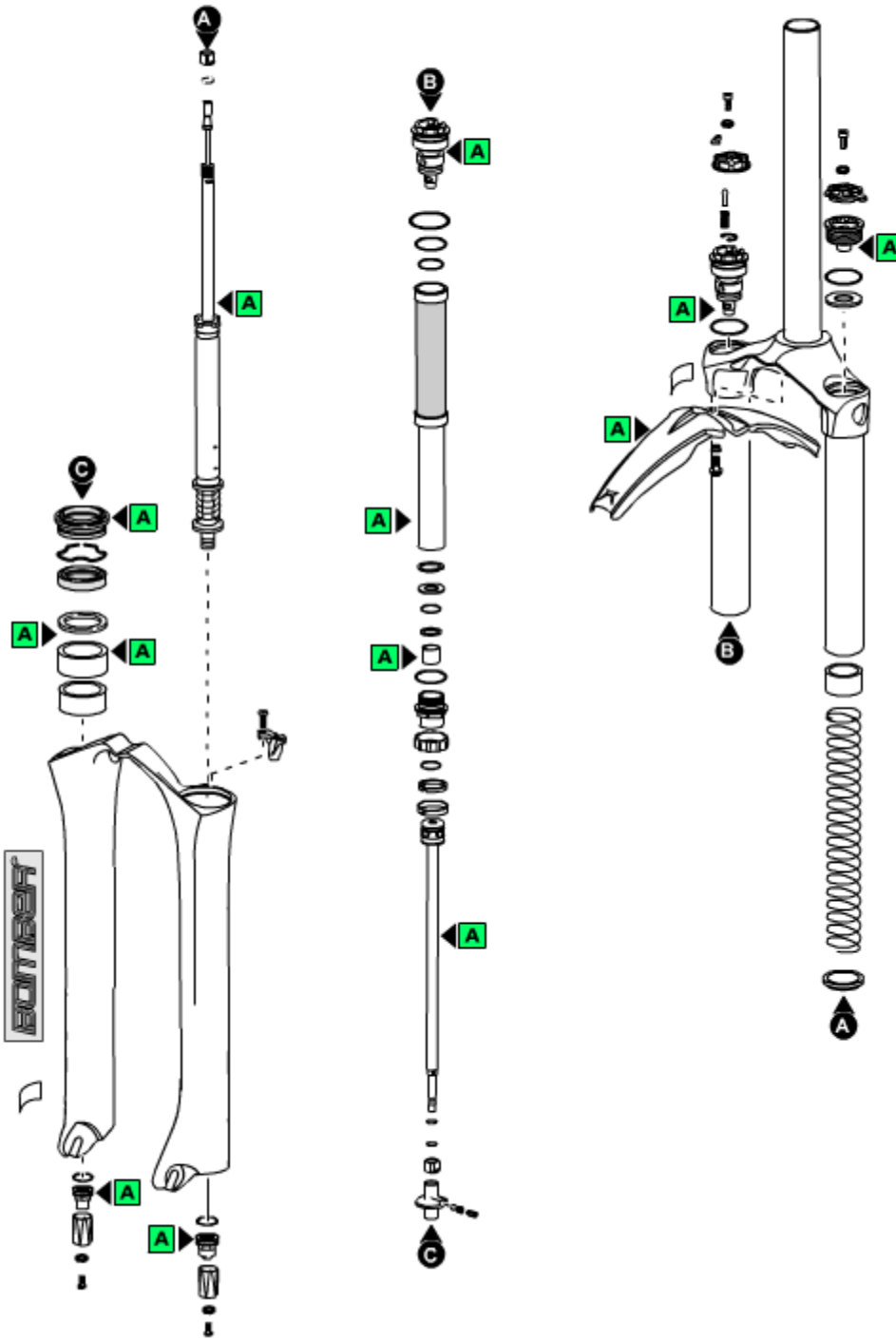
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7	523295	1
8	701294/C	1
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12	5141137>A	2
13	726024/C	1
15	523294	1
17	528278	1
18	522449	1
19	538065	1
20	528018	2
21	522244AA	4
22	703766/C	1
23	524189	1
24	524185	1
25	309775/R	1
26	804094/R	1
27	5321408	1
28	528193	1
29	528223	1
30	5211421W>A	1
31	5321264	1
32	520220KV	1
34	525007	1
35	547705	1
35	547707	1
35	547715	1
36	528243	1
37	547713	1
37	547714	1
38	5181335LA/R	1
40	521209	1
42	703780LA/C	1
43	520342AR	2
44	5181224	1
45	5141278/C	1
46	531085	1
47	549102KR	1
48	520362	1
49	5321262	1
51	549100KR	1
53	701532/C	1
54	522445	1
55	818350/E	1
55	818350/R	1
56	533297	2
57	523261	2
58	528230>A	2
59	538115	2
60	538114	2
63	5321365SS/C	1
63	5321365RR/C	1
63	5321365SR/C	1
63	5321365RS/C	1
64	536122	1
67	547689	1
68	528046	2
69	5321270	1
70	549085LA>A	2
71	520278	2
72	8501029/C	1
73	528030	1
74	5181347/R	1
75	526143RX	2
81	556620/R	1
82	528239>A	1
83	528051	1
92	5321296	1
95	520341	1
96	5321153>A	1
97	522403>A	2
98	522447	1

**Spare part list - All Mountain 1**

Rif.	Code	Description	Q.ty in the model
2	508995/C (replaces 508993/C)	<b>REINFORCED ALLOY STEM+++</b>	1
5	528247	<b>O-RING</b>	1
6	520363	<b>SCREW</b>	1
7	523295	<b>STOP RING</b>	1
8	701294/C	<b>PLUG UNIT-AM1 TST '06</b>	1
11	5321084	<b>SPIN</b>	1
12	5141137>A	<b>SPRING</b>	2
13	726024/C	<b>COMPRESS.ADJUSTER UNIT 2005</b>	1
15	523294	<b>STOP RING</b>	1
17	528278	<b>SEAL</b>	1
18	522449	<b>WASHER</b>	1
19	538065	<b>BUSHING</b>	1
20	528018	<b>O-RING</b>	2
21	522244AA	<b>WASHER</b>	4
22	703766/C	<b>TST CARTRIDGE- AM 1 '06</b>	1
23	524189	<b>PISTON RING</b>	1
24	524185	<b>PISTON RING</b>	1
25	309775/R	<b>TST SHAFT AM1 '06</b>	1
26	804094/R	<b>TST BUSHING UNIT</b>	1
27	5321408	<b>REB.INNER ROD TST CART. AM'06</b>	1
28	528193	<b>O-RING</b>	1
29	528223	<b>O-RING</b>	1
30	521142IW>A	<b>NUT</b>	1
31	5321264	<b>BOTTOM PLUG</b>	1
32	520220KV	<b>ALLEN BOLT</b>	1
34	525007	<b>SET SCREW, REAR SHOCK</b>	1
35	547705	<b>ALLOY STEM -LABELS</b>	1
35	547707	<b>ETA 06- LABEL</b>	1
35	547715	<b>TST '06 LABEL</b>	1
36	528243	<b>O-RING</b>	1
37	547713	<b>EXT.REBOUND ADJ.MTB'06 LABEL</b>	1
37	547714	<b>TAS '06 LABEL</b>	1
38	5181335LA/R	<b>TAS'06 BODY UNIT-TR.130-150</b>	1
40	521209	<b>NUT</b>	1
42	703780LA/C	<b>TAS'06 CARTR.AM2 TR.130-150</b>	1
43	520342AR	<b>FENDER SCREW</b>	2
44	5181224	<b>PRELOAD SLEEVE</b>	1
45	5141278/C	<b>SPRING K=5,0 ETA'06 130-150</b>	1
46	531085	<b>AIR VALVE CAP '06</b>	1
47	549102KR	<b>PLUG UNIT-MARAT'06</b>	1
48	520362	<b>SCREW</b>	1
49	5321262	<b>TAS NUT UNIT</b>	1
51	549100KR	<b>ETA KNOB</b>	1
53	701532/C	<b>TAS PLUG UNIT- ALL MOU.2'06</b>	1
54	522445	<b>WASHER</b>	1
55	818350/E	<b>CROWN+STANC+ALLOY STEM AM1 '06</b>	1
55	818350/R	<b>CROWN+STANCHION AM1 '06</b>	1

56	533297	<b>DUST SEAL DIA.32</b>	2
57	523261	<b>STOP RING</b>	2
58	528230>A	<b>OIL SEAL DIA.32</b>	2
59	538115	<b>UPPER BUSHING DIA.32</b>	2
60	538114	<b>LOWER BUSHING DIA.32</b>	2
63	5321365SS/C	<b>ALL MOU.'06 MONOL-MAGNUM GREY</b>	1
63	5321365RR/C	<b>ALL MOU.'06 MONOL.-FLAT BLACK</b>	1
63	5321365SR/C	<b>ALL MOU.'06 MONOL.-SILVER DUST</b>	1
63	5321365RS/C	<b>ALL MOU.'06 MONOLITE-ECO BLACK</b>	1
64	536122	<b>SPRING CAP</b>	1
67	547689	<b>RH+LH 66RC2X LABELS 06 BLK+RED</b>	1
68	528046	<b>O-RING</b>	2
69	5321270	<b>NUT UNIT</b>	1
70	549085LA>A	<b>ADJUSTER KNOB</b>	2
71	520278	<b>SCREW</b>	2
72	8501029/C	<b>ALL MOUNTAIN '06 FENDER UNIT</b>	1
73	528030	<b>O-RING</b>	1
74	5181347/R	<b>TST BODY ALL.M.05</b>	1
75	526143RX	<b>FENDER BUSHINGS</b>	2
81	556620/R	<b>TAS SHAFT '06 TR.130-150</b>	1
82	528239>A	<b>O-RING</b>	1
83	528051	<b>O-RING</b>	1
92	5321296	<b>SPACER</b>	1
95	520341	<b>SCREW</b>	1
96	5321153>A	<b>CABLE GUIDE</b>	1
97	522403>A	<b>WASHER</b>	2
98	522447	<b>WASHER</b>	1

Exploded view - All Mountain 1 RC



Rif. Code	Quantity	
2	508995/C	1
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12	5141137>A	2
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17	528278	1
18	522449	1
19	538065	1
20	528018	2
21	522444AA	4
22	703778/C	1
23	524189	1
24	524185	1
25	309775/R	1
26	804094/R	1
27	5321408	1
28	528193	1
29	528223	1
30	5211421W>A	1
31	5321264	1
32	520220KV	1
33	528313	1
34	525007	1
35	547705	1
35	547707	1
35	547715	1
36	528243	1
37	547713	1
37	547714	1
38	5181335LA/R	1
40	521209	1
42	703780LA/C	1
43	520342AR	2
44	5181224	1
45	5141278/C	1
46	531085	1
47	549108KR	1
48	520362	1
49	5321262	1
51	549100KR	1
53	701532/C	1
54	522445	1
55	818350/E	1
55	818350/R	1
56	533297	2
57	523261	2
58	528230>A	2
59	538115	2
60	538114	2
61	850768/C	0
62	850776/C	0
63	5321365SS/C	1
63	5321365RR/C	1
63	5321365SR/C	1
63	5321365RS/C	1
64	536122	1
67	547689	1
68	528046	2
69	5321270	1
70	549085LA>A	2
71	520278	3
72	8501029/C	1
73	528030	1
74	5181347/R	1
75	526143RX	2
81	556620/R	1
82	528239>A	1
83	528051	1
92	5321296	1
95	520341	1
96	5321153>A	1
97	522403>A	2
98	522447	1

**Spare part list - All Mountain 1 RC**

Rif.	Code	Description	Q.ty in the model
2	508995/C (replaces 508993/C)	<b>REINFORCED ALLOY STEM+++</b>	1
5	528247	<b>O-RING</b>	1
11	5321084	<b>SPIN</b>	1
12	5141137>A	<b>SPRING</b>	2
13	726028/C	<b>REM.CON.COMPR.ADJUSTER D.32 06</b>	1
15	523294	<b>STOP RING</b>	1
17	528278	<b>SEAL</b>	1
18	522449	<b>WASHER</b>	1
19	538065	<b>BUSHING</b>	1
20	528018	<b>O-RING</b>	2
21	522244AA	<b>WASHER</b>	4
22	703778/C	<b>REM.CONT.ALL MO.CARTRIDGE 06</b>	1
23	524189	<b>PISTON RING</b>	1
24	524185	<b>PISTON RING</b>	1
25	309775/R	<b>TST SHAFT AM1 '06</b>	1
26	804094/R	<b>TST BUSHING UNIT</b>	1
27	5321408	<b>REB.INNER ROD TST CART. AM'06</b>	1
28	528193	<b>O-RING</b>	1
29	528223	<b>O-RING</b>	1
30	521142IW>A	<b>NUT</b>	1
31	5321264	<b>BOTTOM PLUG</b>	1
32	520220KV	<b>ALLEN BOLT</b>	1
33	528313	<b>O-RING</b>	1
34	525007	<b>SET SCREW, REAR SHOCK</b>	1
35	547705	<b>ALLOY STEM -LABELS</b>	1
35	547707	<b>ETA 06- LABEL</b>	1
35	547715	<b>TST '06 LABEL</b>	1
36	528243	<b>O-RING</b>	1
37	547713	<b>EXT.REBOUND ADJ.MTB'06 LABEL</b>	1
37	547714	<b>TAS '06 LABEL</b>	1
38	5181335LA/R	<b>TAS'06 BODY UNIT-TR.130-150</b>	1
40	521209	<b>NUT</b>	1
42	703780LA/C	<b>TAS'06 CARTR.AM2 TR.130-150</b>	1
43	520342AR	<b>FENDER SCREW</b>	2
44	5181224	<b>PRELOAD SLEEVE</b>	1
45	5141278/C	<b>SPRING K=5,0 ETA'06 130-150</b>	1
46	531085	<b>AIR VALVE CAP '06</b>	1
47	549108KR	<b>TST REM.CONT.06 KNOB</b>	1
48	520362	<b>SCREW</b>	1
49	5321262	<b>TAS NUT UNIT</b>	1
51	549100KR	<b>ETA KNOB</b>	1
53	701532/C	<b>TAS PLUG UNIT- ALL MOU.2'06</b>	1
54	522445	<b>WASHER</b>	1
55	818350/E	<b>CROWN+STANC+ALLOY STEM AM1 '06</b>	1
55	818350/R	<b>CROWN+STANCHION AM1 '06</b>	1
56	533297	<b>DUST SEAL DIA.32</b>	2
57	523261	<b>STOP RING</b>	2

58	528230>A	<b>OIL SEAL DIA.32</b>	2
59	538115	<b>UPPER BUSHING DIA.32</b>	2
60	538114	<b>LOWER BUSHING DIA.32</b>	2
61	850768/C	<b>OIL SEALS DIA.32 KIT</b>	0
62	850776/C	<b>BUSHINGS DIA 32 KIT</b>	0
63	5321365SS/C	<b>ALL MOU.'06 MONOL-MAGNUM GREY</b>	1
63	5321365RR/C	<b>ALL MOU.'06 MONOL.-FLAT BLACK</b>	1
63	5321365SR/C	<b>ALL MOU.'06 MONOL.-SILVER DUST</b>	1
63	5321365RS/C	<b>ALL MOU.'06 MONOLITE-ECO BLACK</b>	1
64	536122	<b>SPRING CAP</b>	1
67	547689	<b>RH+LH 66RC2X LABELS 06 BLK+RED</b>	1
68	528046	<b>O-RING</b>	2
69	5321270	<b>NUT UNIT</b>	1
70	549085LA>A	<b>ADJUSTER KNOB</b>	2
71	520278	<b>SCREW</b>	3
72	8501029/C	<b>ALL MOUNTAIN '06 FENDER UNIT</b>	1
73	528030	<b>O-RING</b>	1
74	5181347/R	<b>TST BODY ALL.M.05</b>	1
75	526143RX	<b>FENDER BUSHINGS</b>	2
81	556620/R	<b>TAS SHAFT '06 TR.130-150</b>	1
82	528239>A	<b>O-RING</b>	1
83	528051	<b>O-RING</b>	1
92	5321296	<b>SPACER</b>	1
95	520341	<b>SCREW</b>	1
96	5321153>A	<b>CABLE GUIDE</b>	1
97	522403>A	<b>WASHER</b>	2
98	522447	<b>WASHER</b>	1

**Technical characteristics: Technical characteristics**

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

**Available travels:** 130/150 mm (TAS adjustment).

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

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

**Right fork leg damping system:** TST cartridge.

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

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

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

**Steer tube:** reinforced aluminium, 1-1/8", threadless.

**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:** standard.

**Disk brake mount:** Post Mount for 6" disk.

**Max wheel size:** 2.8" x 26".

## 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: Fitting the fork onto the frame

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The fork is supplied with "A-Head Set" steer tube to be cut to size according to frame being used.

Fitting the fork onto the bike frame is a very delicate operation that must be carried out at one of our service centres only.

The assembling on the frame and the adjustment of the steer tube must be carried out following the instructions of the steering set manufacturer.

**A wrong installation can be dangerous for the rider.**

**Marzocchi does not guarantee the assembly and accepts no liability for damage and/or accidents arising from a wrong installation.**

The steer tube must be pressed into the crown; its replacement must be carried out by one of our service centres using the adequate tools.

**A wrong installation of the steer tube into the crown may cause the rider to lose the control of the bike and lead to serious personal injury.**

## 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.

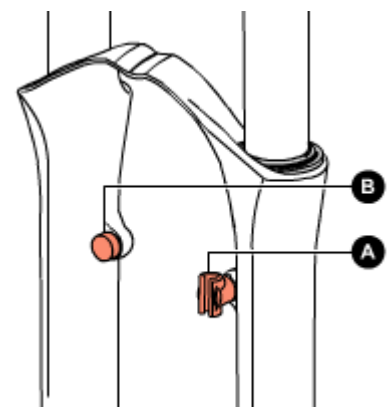
Improper installation of a disk brake system can overstress the caliper mountings, which may cause the caliper mountings to break, resulting in loss of control of the bicycle, an accident, personal injury, or death. Be sure that the brake system installation is also performed in strict compliance with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

**If the fork comes standard with V-brake mounts, remove such mounts and install the cable guide (A) on the left side and cap (B) on the right side.**

**After installation always check that the brake tube is correctly fixed to the special mount (A).**



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

### **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 or the V-brake pads. Read the instructions of the brake system manufacturer for the correct specifications.

### Dismantling: Removing the top caps

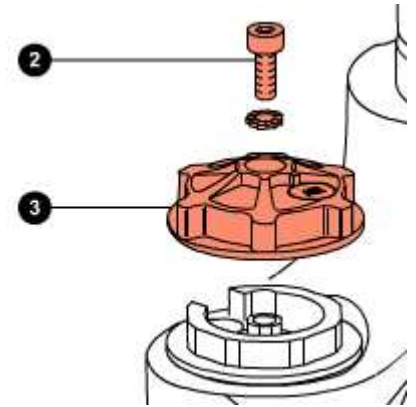
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Put the fork in the vice in vertical position, fixing it by the dropouts.

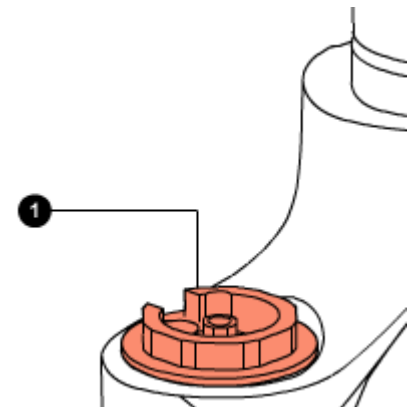
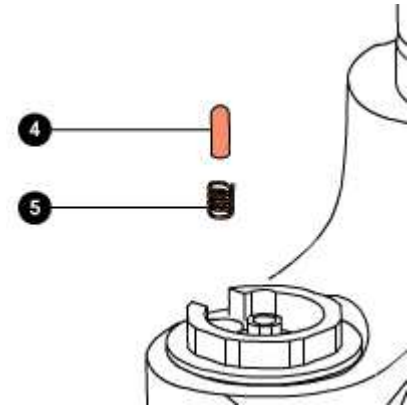
### Dismantling: Removing the top right cap

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With a 2mm Allen wrench, loosen the screw (2) of the TST control knob.  
Remove the TST control knob (3).



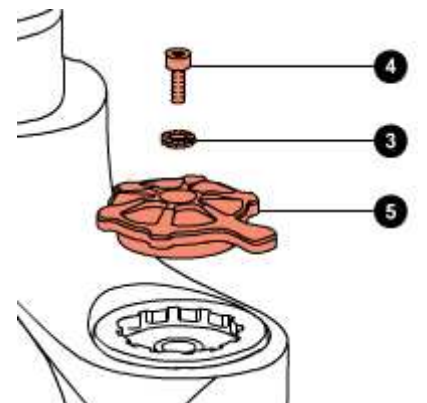
Remove pin (4) and spring (5).



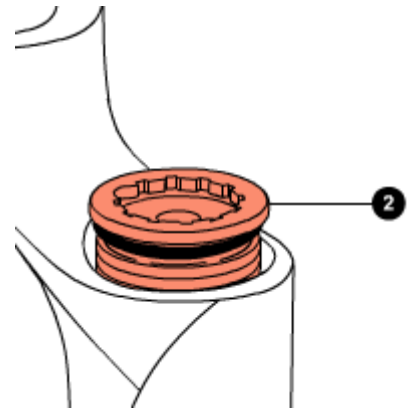
### Dismantling: Removing the top left cap

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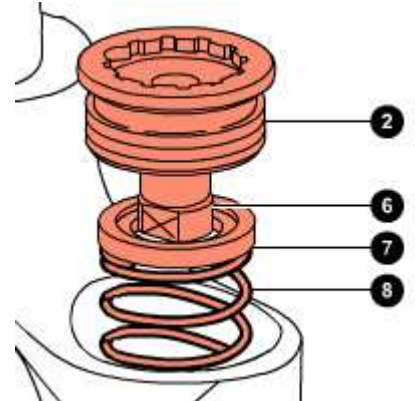
With a 2mm Allen key loosen screw (4).  
Remove screw (4), washer (3) and the ETA control knob (5).



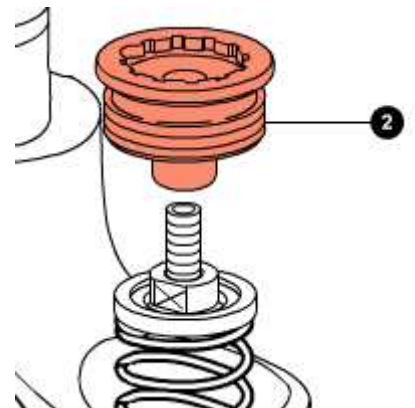
Fully unscrew lock cap (2) using the Shimano TL-LR10 locking tool.  
Lift out lock cap (2).



Push washer (7) and spring (8) downwards so you can reach locknut (6) with the 10mm key.  
Holding locknut (6) with the 10mm key, use the Shimano TL-LR10 locking tool to fully unscrew lock cap (2).

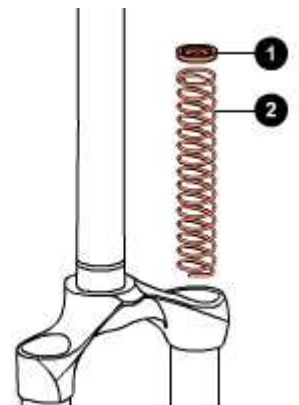


Remove lock cap (2).



### Dismantling: Draining the oil

Remove washer (1) and spring (2) 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.**

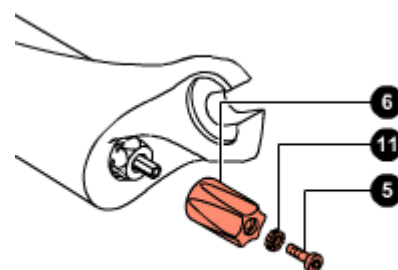


### Dismantling: Breaking down the steering crown unit / arch-slider assembly

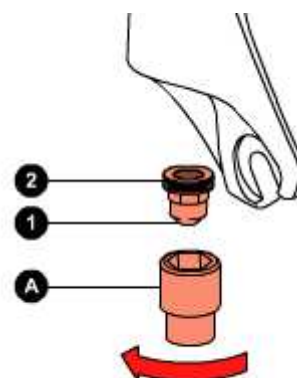
**Use the special spanner to remove the bottom nuts. Do not use other tools.**

Turn the arch-slider assembly upside down.

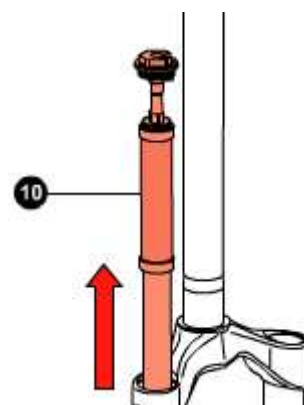
Loosen the screw (5) fixing the rebound adjustment knob (6) on the right leg using a 2mm Allen key. Remove screw (5), washer (11) and the adjustment knob (6).



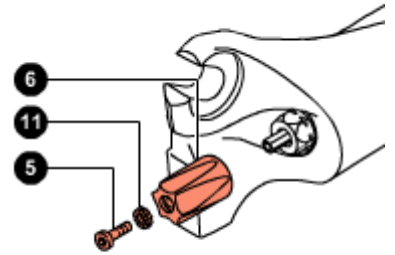
Using the special 12mm spanner (A), loosen the right bottom nut (1). Pull out the right bottom nut (1) complete with O-ring (2).



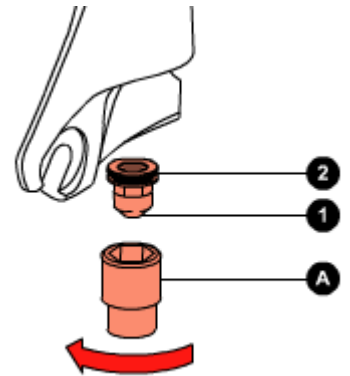
Pull the complete TST cartridge (10) off the right leg.



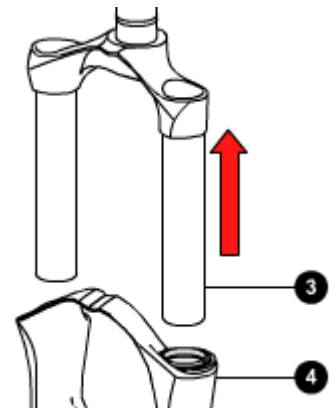
With a 2mm Allen key loosen the screw (5) fixing the TAS adjustment knob (6) on the left leg. Remove screw (5), washer (11) and adjustment knob (6).



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 TST cartridge**

[Click here to view the video instructions.](#)

### **Dismantling: Dismantling the TAS cartridge**

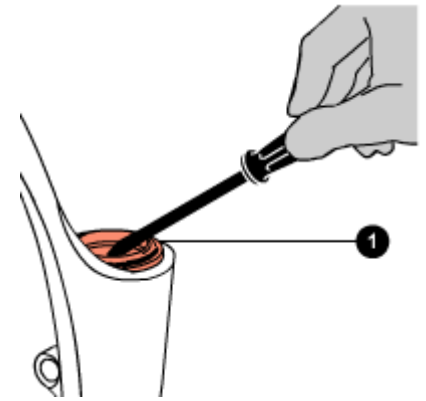
**TAS:** [Click here to view the video instructions.](#)

**ETA:** [Click here to view the video instructions.](#)

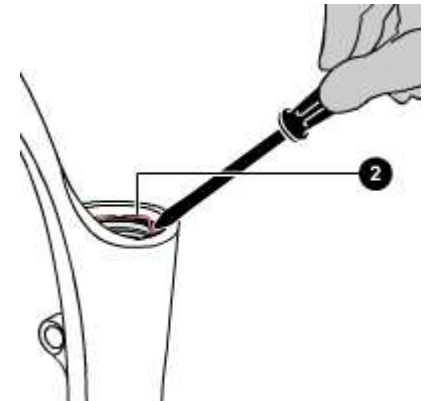
### **Dismantling: Removing the seals**

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.**



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.**



**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 smaller diameter towards the edge opposite to striker (D).

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

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

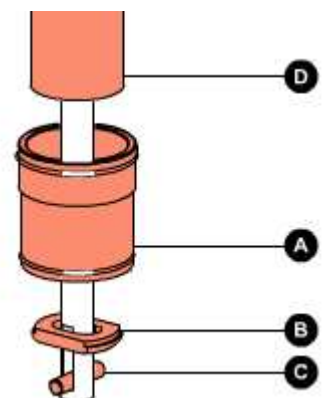
**Remove first the top bushes, then the bottom bushes.**

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

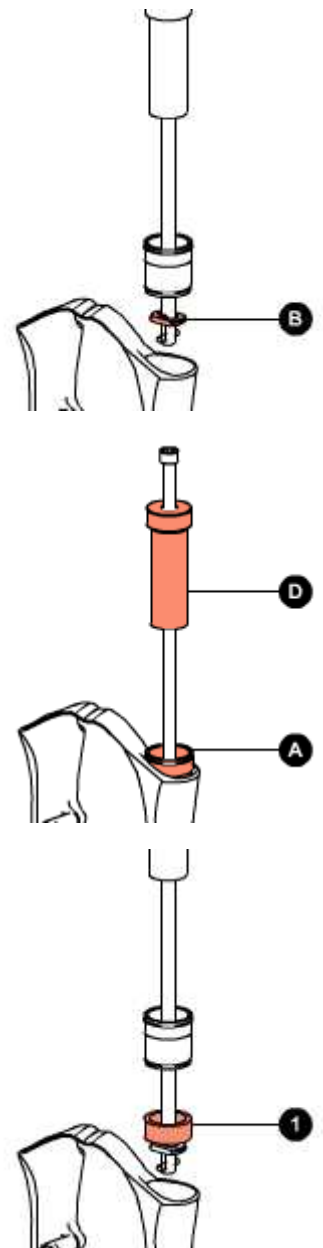
The slot in the rod lets the extraction washer swing inside the rod itself.

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.

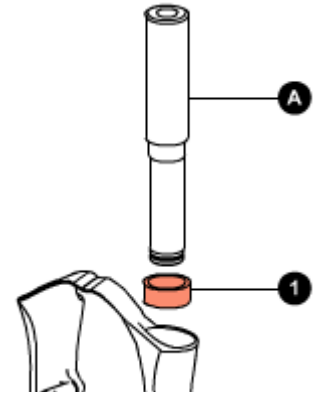


### Assembling: Assembling the guide bushes

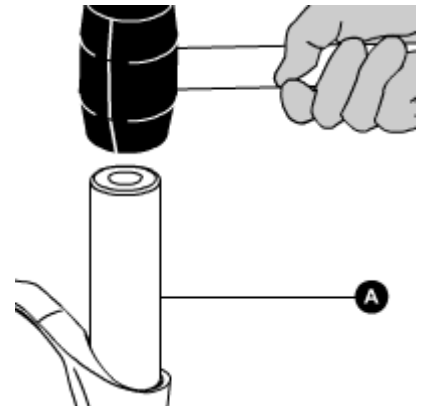
Insert the guide bushes using the special introducers (short type for the top bush and long type for the bottom bush, both with a black finish). Do not use other tools.

Fit first the bottom bushes, then the top bushes.

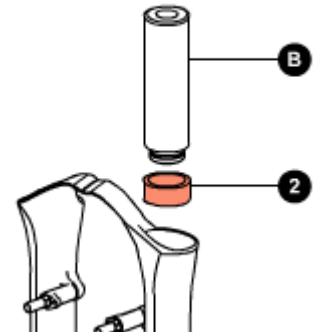
Using the long introducer (A) fit the bottom bush (1).



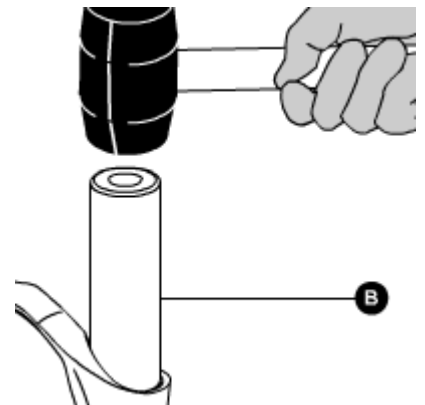
Using a hammer knock the introducer (A) into the arch-slider assembly.



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



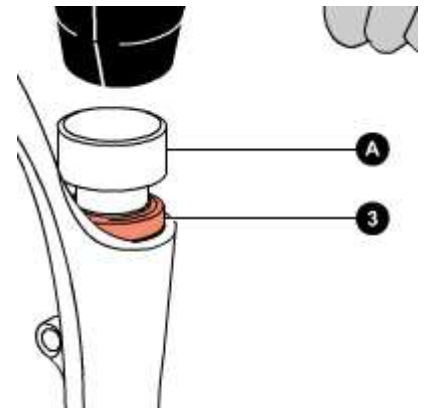
Using a hammer knock the introducer (B) into the arch-slider assembly.



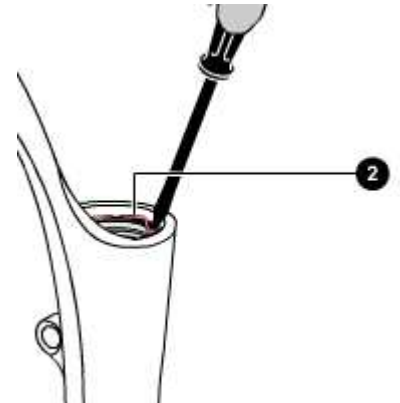
### Assembling: Assembling the seals

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:

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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).

The pumping element operating the hydraulic rebound braking (that can be recognised by the segment) must be installed in the right leg.

### Assembling: Assembling the TST cartridge

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[Click here to view the video instructions.](#)

### Assembling: Assembling the TAS cartridge

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[TAS: Click here to view the video instructions.](#)

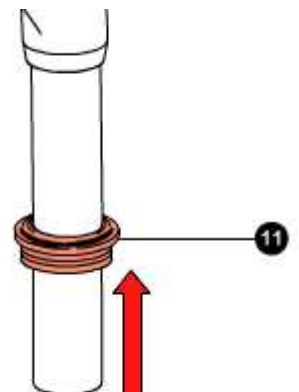
[ETA: Click here to view the video instructions.](#)

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

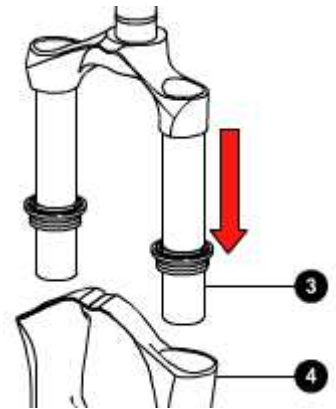
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A special spanner shall be used to assemble the bottom nuts. Do not, at any times, use other tools.

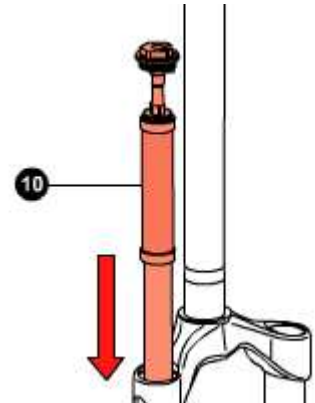
Fit both dust seals (11) to the stanchions.



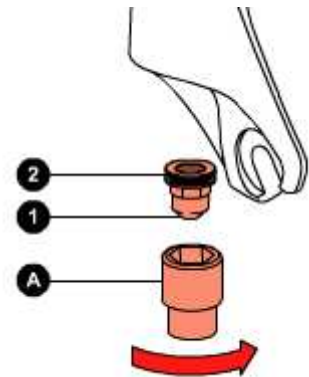
Insert the crown-stanchion unit (3) in the arch-slider assembly (4).



Insert the complete TST cartridge (10) in the right leg.

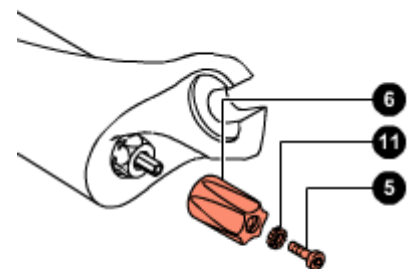


With the special 12mm spanner (A), tighten the right bottom nut (7) complete with O-ring (8) to the recommended tightening torque ( $10 \text{ Nm} \pm 1$ ).

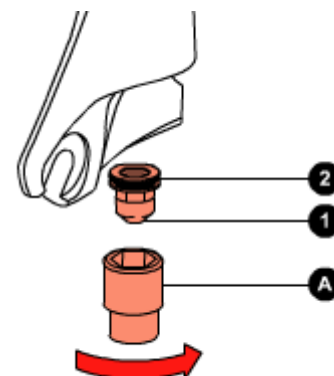


Fit the rebound adjusting knob (6) to the right leg.

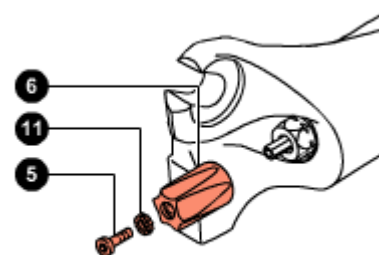
**Take great care not to damage the O-ring fitted to the end of the pumping element rod.**  
 Tighten the fixing screw (5) of the adjusting knob to the recommended tightening torque ( $2 \text{ Nm} \pm 0.5$ ).



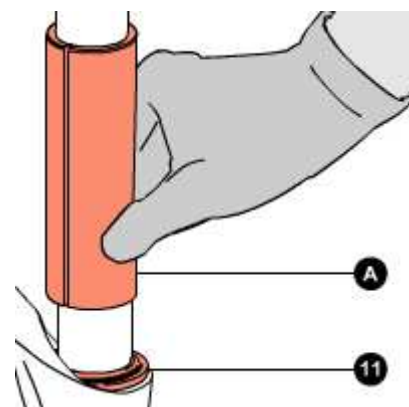
Using the special 12mm spanner, tighten the left bottom screw (1) complete with O-ring (2) to the recommended tightening torque ( $10 \text{ Nm} \pm 1$ ).



Fit the TAS adjustment knob (6) to the left leg.  
 Be careful not to damage the O-ring at the end of the pumping rod.  
 Tighten the fixing screw (5) of knob (6) to the recommended torque ( $2 \text{ Nm} \pm 0.5$ ).

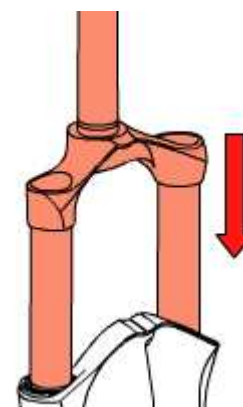


Using introducer (A) insert the dust seals (11) in their seats.

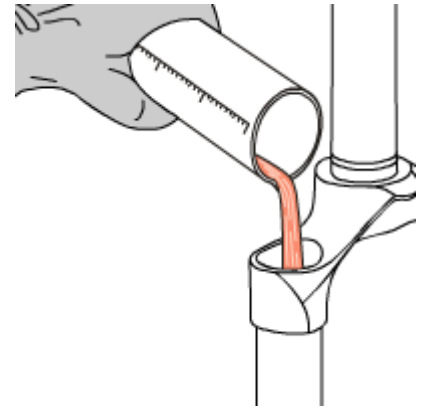


### Assembling: Filling with oil

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

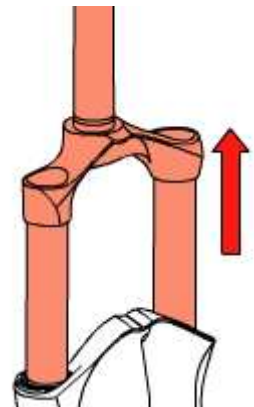


In a graduated recipient, prepare the quantity of oil to pour into the fork leg (see table).  
 Pour roughly 1/3 of the oil required into each stanchion, then pump the fork a few times to eliminate any traces of air.  
 Pour the rest of oil in.

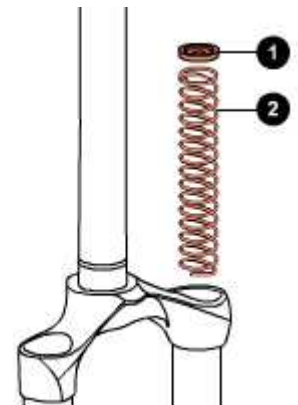


**A lower or higher volume or a type of oil other than the one recommended can change the behaviour of the fork in every phase.**

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



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

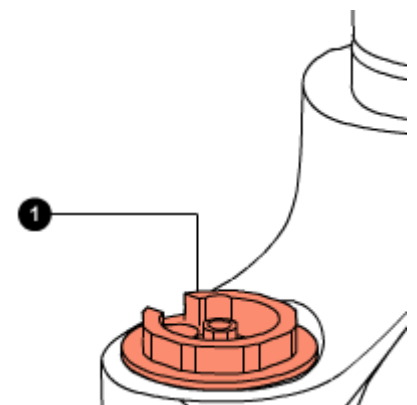


### **Assembling: Mounting the top caps**

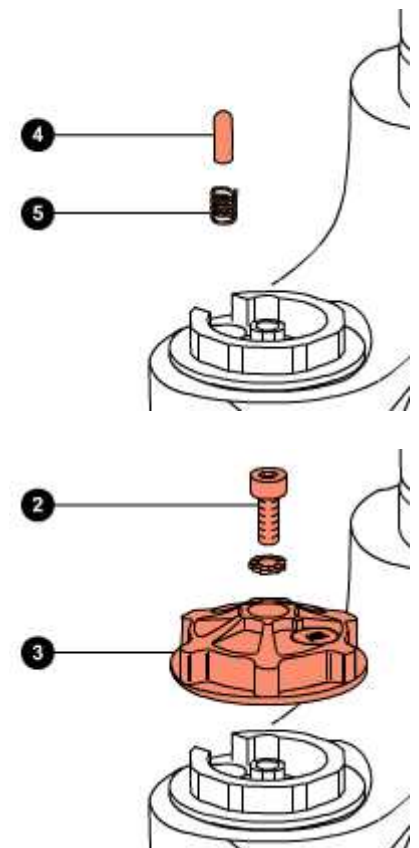
Put the fork in the vice in vertical position, fixing it by the dropouts.

### **Assembling: Assembling the top right cap**

Fit lock cap (1) and, with a 21mm socket spanner, tighten to the recommended tightening torque (**10 Nm  $\pm$  1**).



Insert spring (5) and pin (4).



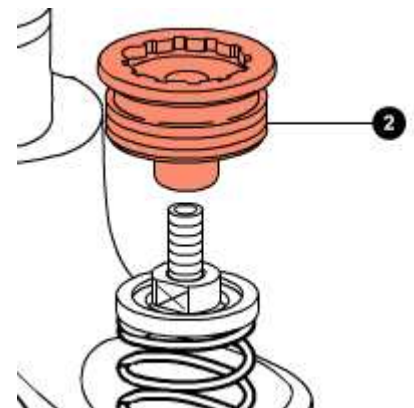
Fit the TST control knob (3).

Using the 2mm Allen wrench, tighten screw (2) of the TST control knob to the recommended tightening torque (**2 Nm ± 0.5**).

Restore the correct air pressure (see settings).

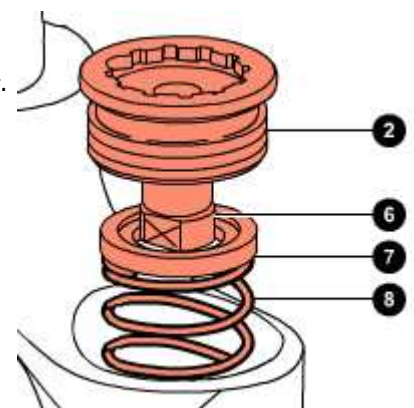
### Assembling: Assembling the top left cap

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.

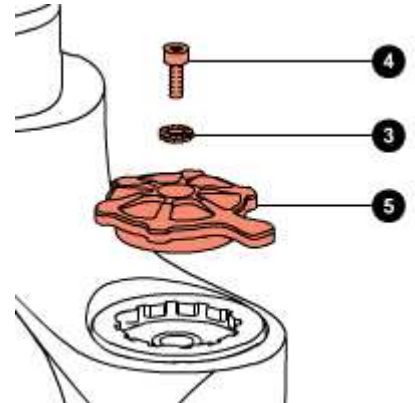
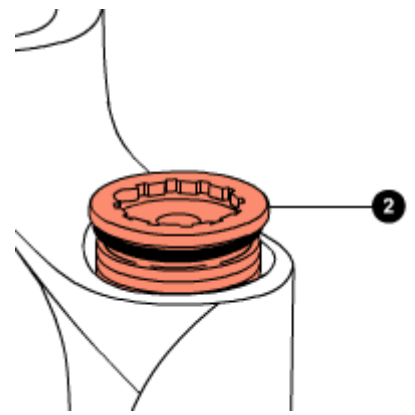
Push washer (7) and the preload tube (8) downwards so you can reach locknut (6) with a 10mm spanner. Using the 10mm and 21mm spanners, tighten locknut (6) on cap (2) to the recommended tightening torque (**6 Nm ± 1**).



Fit the control knob (5), washer (3) and screw (4).

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

Fit the ETA control knob (5), washer (3) and screw (4).  
Using a 2mm Allen key, tighten the knob fixing screw (4) to the recommended tightening torque (**2 Nm**  
 $\pm 0.5$ ).



## Setting: General rules for calibration

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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

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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**".

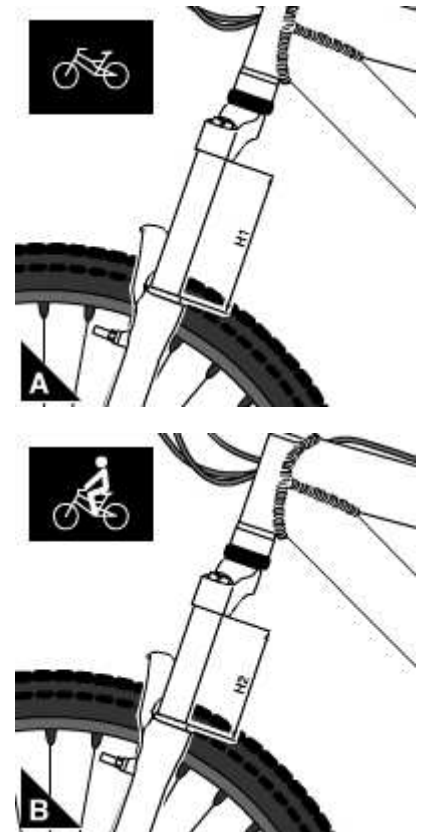
**SAG = H1 - H2**

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: TAS

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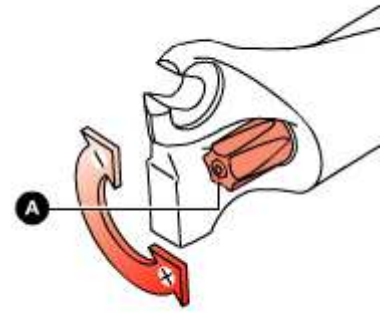
### Left fork leg:

The TAS cartridge lets you adjust the maximum travel and length to adapt the fork to the biker's need and to the geometry of the bike frame.

**Before adjusting the TAS cartridge, de-inflate the positive air chamber on the right leg. Restore the correct working pressure after the adjustment.**

Turning the knob clockwise lets you reduce the maximum travel and the fork length.

Turning the knob counter-clockwise lets you increase the max travel and the fork length.



**NEVER force the adjuster beyond its limit of travel. The fork could get damaged and become unsafe.**

### Setting: ETA

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#### Left fork leg:

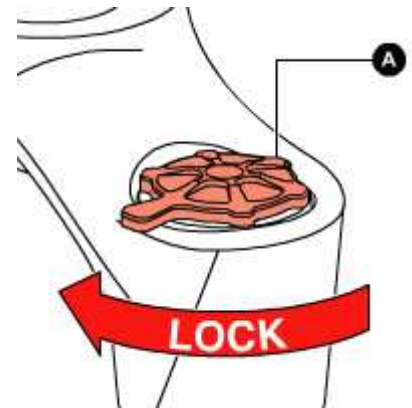
The ETA cartridge lets you adjust the rebound damping "on the fly" reducing the fork length down to a 30mm travel. The control has two positions:

##### 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 downhill. 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)
Adjuster locking screws	2±0,5
Fender fixing screws	6±1
Fork leg top caps	10±1
Pumping element/cartridge bottom nuts	10±1

**Air pressures****TST leg positive air pressure**

User weight		Air pressure	
kg.	lb.	bar	psi
55 - 70	121 - 154	<= 2,00	<= 2.900,00
70 - 80	154 - 176	2,00 - 2,75	2.900,00 - 3.987,50
80 - 95	176 - 209	2,75 - 3,40	3.987,50 - 4.930,00
95 - 110+	209 - 242	>= 4,20	>= 6.090,00

**All Mountain 1 -  
All Mountain 1 RC -**

**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 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