



MAG SERIES

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RECALL NOTICES

Item: Crowns on some 92 Mag 30 and Mag 20.

Defect: Cracking from corrosion, resulting in failure.

Identification: Forks with serial numbers between 27266-158841, with polished (not anodized) crown.

PARIS-ROUBAIX

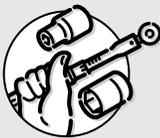
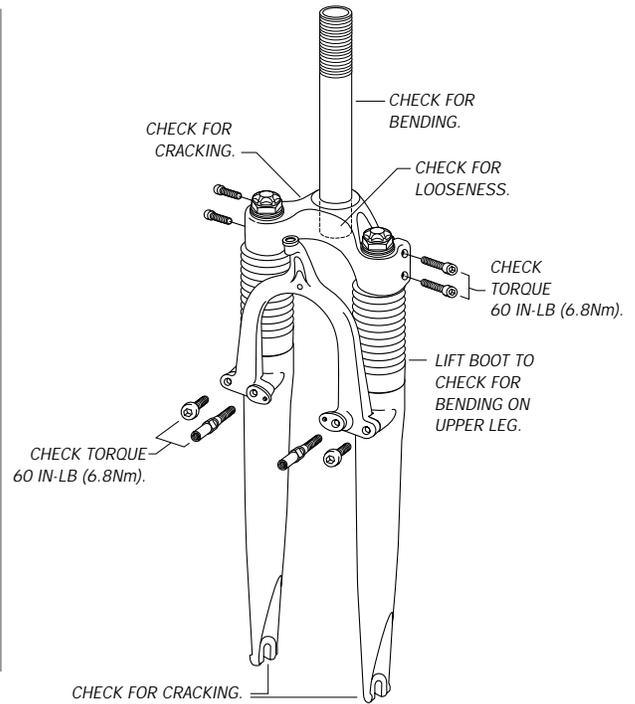


MAG SERIES SERVICE CHARTS



Maintenance Interval Checklist

Frequency	Task
Every ride (Inspection)	Check front wheel and quick release
	Check brake system attachments and function
	Check headset adjustment
	Check for fork structure damage (cracking: crown, forkends; bending: upper tubes, steerer; looseness: steerer/crown attachment)
8 hours of riding / Every week	Clean fork boots
	Clean and oil upper tubes, resiwiper
	Check bolt torque (crown, brace bolts, brake pivots, reflector bracket)
	Check top cap torque
Every 2 weeks	Check and adjust air pressure
100 hours of riding / 1 Year	Disassemble and clean fork
	Inspect springs for compression set
	Clean, inspect and grease bushings and resiwiper
	Clean and inspect upper tubes for bending, wear, discoloration
	Check air spring for proper pressure
	Clean fork boots
	Replace oil



Torque Tightening Table

Year	Model	Top Cap	Brake pivot post	Fork Brace Bolts	Crown bolt	Valve Body	Valve Bolt Assembly
92	Mag 20	see note 1	60 in-lb (6.8Nm)	60 in-lb (6.8Nm)	60 in-lb (6.8Nm)	420 in-lb (47.4Nm)	none
	Mag 30	see note 2					35 in-lb (4.0Nm)
93	Mag 10	see note 1					none
	Mag 21						none
94-97	All						

Note 1: Hand tighten air caps into upper tubes (stanchions), install upper tube to crown assembly and tighten. Compression of upper tube to crown keeps air caps in place.

Note 2: Seated by air pressure, retained by circlip installed before pressurization.



Lubrication Chart

Year	Model	Original Oil	Tuning Option Oil	Quantity or height (per leg).	External Oil (reswiper)	Grease
92	Mag 20	SAE 8 wt or ATF	2.5 - 8 wt	32-35mm from top of compressed leg, ~60cc	Teflon fortified (Pedro's, TriFlow, Finish Line, etc., chain lubes)	Judy Butter (or Teflon fortified grease)
	Mag 30			45-50mm from top of compressed leg, ~60cc		
93	Mag 10	SAE 5 wt		45-50mm from top of compressed leg, ~60cc		
93	Mag 21			40-45mm from top of compressed leg		
94	Mag 10			45-50mm from top of compressed leg		
94-97	Mag 21, 21 SL/Ti			35-40mm from top of compressed leg		
	95-96	Paris-Roubaix		40mm from top of compressed leg		

Note 1: ATF = automatic transmission fluid.

Note 2: See Mag Tuning Chart for customization and tuning tips for oil type, quantity, and port valving.

Note 3: 5 wt oil thins less with temperature variation (is more consistent than 8 wt).



MAG SERIES SERVICE CHARTS (CONTINUED)

 <p>Spring Wear and Replacement Chart (Compression Set)</p>	Year	Model	Top-out Spring		<p>Service Tip If an element on one side needs replacement, replace its match as well.</p>
			Optimum Length (mm)	Replacement Length (mm)	
	92	All	none	none	
	93-97	All	25	21	

 <p>Tuning Chart</p> <p>Note 1: Valve springs in 1993 were 40 lb, from 1994-97 25lb. The softer spring improves responsiveness and is a tuning variable.</p> <p>Note 2: Valve spring preload is set by the number of washers used (thickness).</p> <p>Note 3: Valve plates are a tuning variable. The .005" relief step machined into plates used from 1994-97 improves small bump response.</p> <p>Note 4: The bleed holes (compression and rebound) are tuning variables.</p>	CROSS COUNTRY: Settings, Travel, 46mm (standard)									<p><i>Mag Series Tuning Chart (continued)</i></p> <p>Note 5: The 1994-97 valve body gives a "pusher" ride as it has more holes. Bodies are a tuning variable for models between 1993-97.</p> <p>Note 6: Oil Height actually means height from the top of the oil to the top of the compressed upper tube assembly. In effect, you measure the height the oil does not occupy.</p> <p>Note 7: 60mm travel can be made with Long Travel Kit #59030 or Performance Tuning Kit #59025 for 1993-97 models shown.</p>
	Year	Model	Rider Weight (lbs)	Air Pressure (psi)	Oil Height (mm)	Oil Weight (SAE)	Valve Spring Preload (mm)	Rebound Bleed Hole(s) (mm)	Compression Bleed Hole (mm)	
	93-97	MAG 21, 21 SL/Ti	< 140lb (64kg)	35 - 40psi (2.4 - 2.8bar)	45 - 50	5	0 - .5	none	1.5	
			140 - 180lb (64 - 82kg)	38 - 42psi (2.6 - 2.9bar)	40 - 45	5	0 - .5		1	
			> 180lb (82kg)	42 - 48psi (2.9 - 3.3bar)	35 - 40	8	.5 - 1.0		1	
	93-94	MAG 10	< 140lb (64kg)	35 - 40psi (2.4 - 2.8bar)	50 - 55	5	0 - .5		1	
			140 - 180lb (64 - 82kg)	38 - 42psi (2.6 - 2.9bar)	45 - 50	5	0 - .5		1	
			> 180lb (82kg)	42 - 48psi (2.9 - 3.3bar)	40 - 45	8	.5 - 1.0		1	
	92	MAG 20	< 140lb (64kg)	35 - 40psi (2.4 - 2.8bar)	32 - 35	5	0 - .5		1	
			140 - 180lb (64 - 82kg)	38 - 42psi (2.6 - 2.9bar)		8	1 - .5		none	
> 180lb (82kg)			42 - 48psi (2.9 - 3.3bar)	8		.5 - 1	none			
92	MAG 30	< 140lb (64kg)	35 - 40psi (2.4 - 2.8bar)	45 - 50	8	n/a		n/a		
		140 - 180lb (64 - 82kg)	38 - 42psi (2.6 - 2.9bar)		8					
		> 180lb (82kg)	42 - 48psi (2.9 - 3.3bar)		8					
DOWN HILL: Settings (Continued on next page)										
<p>Tuning Tips: The air chamber size directly affects the force/travel relationship. A small chamber gives a rapidly rising spring rate, while in a bigger chamber the air is compressed during a "hit" at a more gradual rising rate. Chamber size is adjusted by oil height; more oil means less space to put the air and visa versa. Damping is hydraulic: higher viscosity oil dampens more. Mag forks have high "stiction" due to tight seal tolerances needed to hold air, and the need to have high enough initial air pressure to resist bottoming out on big bumps. Later models (starting from 1993) featured progressively improved response to small bumps using negative springs, weaker valve springs and machined valve plates to reduce stiction force and give quicker response. Damping became more clever too, so besides oil viscosity, revised porting (holes) allowed a partial bypass of the system both in compression and damping for more supple response to conditions and rider weight. Many of these parts or modifications are tuning variables.</p>										

PARIS-ROUBAIX



MAG SERIES SERVICE CHARTS (CONTINUED)



Tuning Chart
(continued)

Note 1: Valve springs in 1993 were 40 lb, from 1994-97 25lb. The softer spring improves responsiveness and is a tuning variable.

Note 2: Valve spring preload is set by the number of washers used (thickness).

Note 3: Valve plates are a tuning variable. The .005" relief step machined into plates used from 1994-97 improves small bump response.

Note 4: The bleed holes (compression and rebound) are tuning variables.

DOWN HILL: Settings, Travel, 60mm except 92 Mag 20 (46mm)

Year	Model	Rider Weight (lbs)	Air Pressure (psi)	Oil Height (mm)	Oil Weight (SAE)	Valve Spring Preload (mm)	Rebound Bleed Hole(s) (mm)	Compression Bleed Hole (mm)
93-97	MAG 21, 21 SL/Ti	< 140lb (64kg)	38 - 42psi (2.6 - 2.9bar)	40 - 45	5	0 - .5	2 x 1.0	2
		140 - 180lb (64 - 82kg)	40 - 45psi (2.8 - 3.1bar)	35 - 40	5	1 - .5	1 x 1.0	2
		> 180lb (82kg)	42 - 50psi (2.9 - 3.5bar)	30 - 35	8	2 - .5	none	1.5
93-94	MAG 10	< 140lb (64kg)	38 - 42psi (2.6 - 2.9bar)	45 - 50	5	3 - .5	2 x 1.0	2
		140 - 180lb (64 - 82kg)	40 - 45psi (2.8 - 3.1bar)	40 - 45	5	4 - .5	1 x 1.0	2
		> 180lb (82kg)	42 - 50psi (2.9 - 3.5bar)	30 - 35	8	5 - .5	none	1.5
92	MAG 20	< 140lb (64kg)	38 - 42psi (2.6 - 2.9bar)	32 - 35	5	0 - .5	none	2 x 1.0
		140 - 180lb (64 - 82kg)	40 - 45psi (2.8 - 3.1bar)	27 - 32	8	1 - .5	1 x 1	
		> 180lb (82kg)	42 - 50psi (2.9 - 3.5bar)	22 - 32	8	0 - .5	none	

Tuning Tips: The air chamber size directly affects the force/travel relationship. A small chamber gives a rapidly rising spring rate, while in a bigger chamber the air is compressed during a "hit" at a more gradual rising rate. Chamber size is adjusted by oil height; more oil means less space to put the air and visa versa. Damping is hydraulic: higher viscosity oil dampens more. Mag forks have high "stiction" due to tight seal tolerances needed to hold air, and the need to have a high enough initial air pressure to resist bottoming out on big bumps. Later models (starting from 1993) featured progressively improved response to small bumps using negative springs, weaker valve springs and machined valve plates to reduce stiction force and give quicker response. Damping became more clever too, so besides oil viscosity, revised porting (holes) allows a partial bypass of the system both in compression and damping for more supple response to conditions and rider weight. Many of these parts or modifications are tuning variables.

Tuning Chart
(continued)

Note 5: The 1994-97 valve body gives a "plusher" ride as it has more holes. Bodies are a tuning variable for models between 1993-97.

Note 6: Oil Height actually means height from the top of the oil to the top of the compressed upper tube assembly. In effect, you measure the height the oil does not occupy.

Note 7: 60mm travel can be made with Long Travel Kit #59030 or Performance Tuning Kit #59025 for 1993-97 models shown.



MAG SERIES SERVICE CHARTS (CONTINUED)

 <p>Tools Useful for Working on Forks</p> <p><i>Note 1:</i> (✓) means that for certain models this tool is useful as final option, but otherwise not required.</p> <p><i>Note 2:</i> Specific RockShox tools usually for more complex operations have RockShox numbers.</p> <p><i>Note 3:</i> For 95-96 Paris-Roubaix, we don't have a specific list. Use the 94-97 Mag 21 list as a guideline.</p>	Description	RockShox Part #	92		93		94	94-97
			Mag 30	Mag 20	Mag 10	Mag 21	Mag 10	Mag 21, 21 SL/Ti
	football needle	56991	✓	✓	✓	✓	✓	✓
	seal separator	70113	✓	✓	✓	✓	✓	✓
	upper tube clamping blocks	70101	✓	✓	✓	✓	✓	✓
	valve body tool	70105	✓	✓	✓	✓	✓	✓
	seal/lower bushing installer	70103	✓	✓	✓	✓	✓	✓
	bushing removal tool (as last resort)	70106					(✓)	(✓)
	dropout vise blocks	70107	✓	✓	✓	✓	✓	✓
	air pump w/gauge	20109	✓	✓	✓	✓	✓	✓
	4mm hex wrench	common shop tools	✓	✓	✓	✓	✓	✓
	8mm open end wrench		✓	✓	✓	✓	✓	✓
	flat screwdriver		✓	✓	✓	✓	✓	✓
	19mm socket and ratchet or box wrench			✓		✓	(✓)	(✓)
	22mm socket and ratchet or box wrench						✓	
	6mm bolt			✓				
	8mm hex wrench					✓		
	32mm headset wrench (as last resort)		✓	✓	✓	✓	(✓)	
	36mm headset wrench (as last resort)		✓	✓	✓	✓	(✓)	
	small tip internal snap ring pliers				✓	✓	✓	
	small tip external snap ring pliers		✓	✓	✓	✓	✓	
	vernier calipers		✓	✓	✓	✓	✓	
	metric tape measure/ruler >150mm		✓	✓	✓	✓	✓	
	torque wrench		✓	✓	✓	✓	✓	
	#1 Phillips screwdriver					✓		
	safety glasses	other tools	✓	✓	✓	✓	✓	
	bench vise		✓	✓	✓	✓	✓	
	medium strength thread lock		✓	✓	✓	✓	✓	
	cup/beaker		✓	✓	✓	✓	✓	

PARIS-ROUBAIX

TROUBLESHOOTING GUIDE

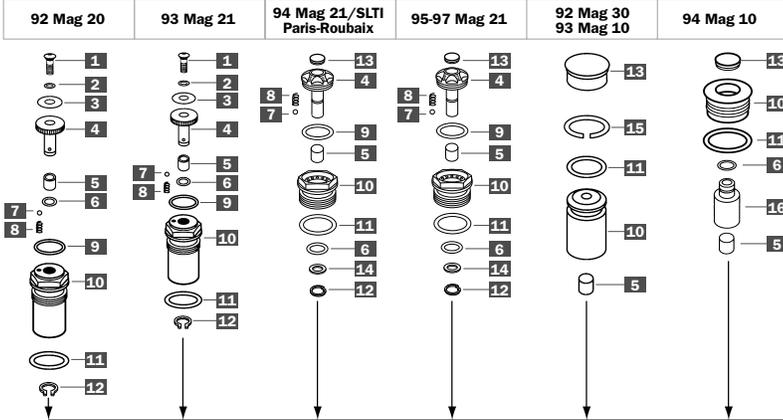
In addition to this guide, use the general chart, *Troubleshooting*, in the *General Service* section which has a list of many generic problems. If your problem is not listed on either chart, solve by opening up the fork in the problem area to uncover the root causes and possible solutions. Mechanical problems usually give good visual clues and telltale evidence such as wear or deformation. Reassemble with corrected or replaced parts to test your solution. If the problem persists, repeat, looking for overlooked factors.

 <p>Troubleshooting Chart</p>	Symptom	Cause	Solution
		Fork doesn't spring back	No air pressure.
Valving holes may be clogged.			Clean and overhaul fork.
	Damping is inconsistent	Too little oil.	Add oil.
		Oil is foaming.	Use different formulation oil.
		Oil dirty or damping holes blocked.	Overhaul and clean, replace oil.
	Always loses air pressure	Air valve worn.	Replace rubber valve parts.
		Seal leak.	Inspect upper seals, O-rings and check upper tubes for scratches.
	Oil is leaking	Seal is bad.	Inspect all seals and O-rings; replace as necessary.
		Upper tubes are worn.	Measure and replace.
		Bottom plate O-ring seal failed.	Rebuild internals, reseal O-ring or replace.
	Seals have blown out	Seals are old.	Replace seals.
		Seal retaining ring or circlip is not seated properly, or is missing.	Make sure the retaining ring or circlip is located in its groove and seated properly.

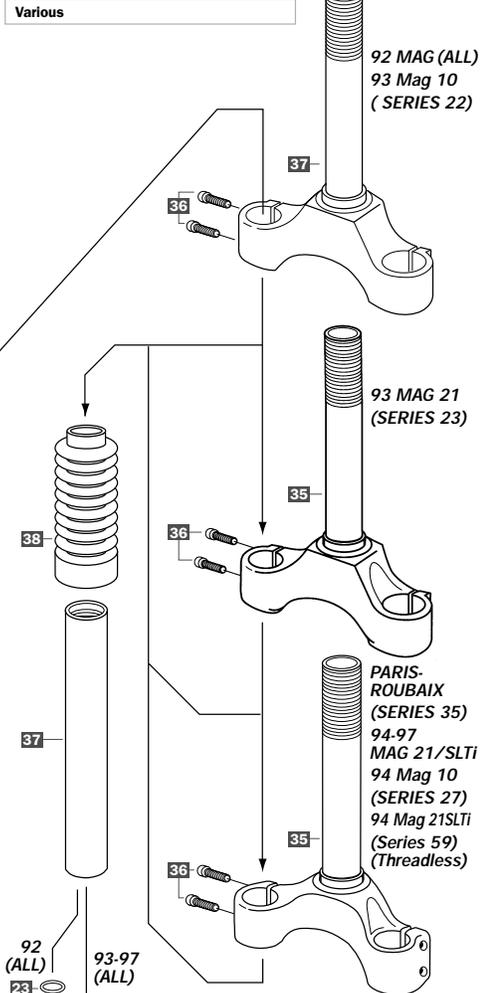


MAG SERIES 1992-97

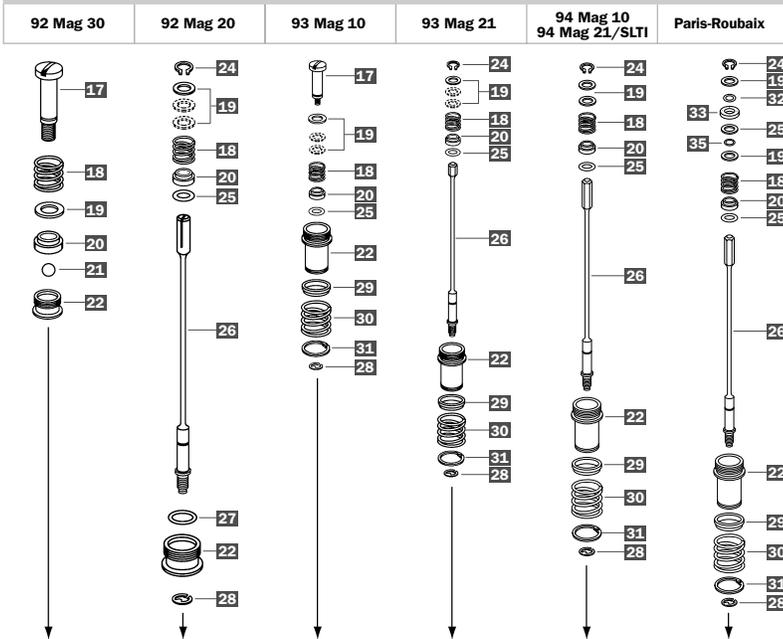
AIR CAP ASSEMBLIES



CROWN/STEERERS

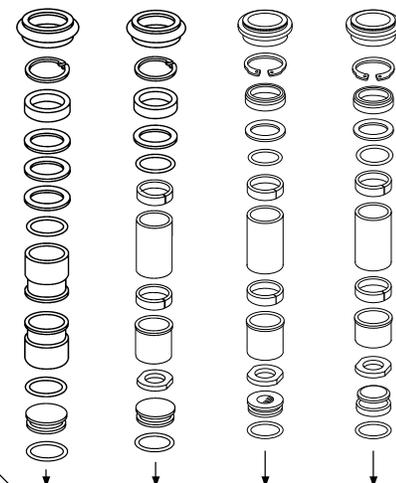


AIR VALVE ASSEMBLIES



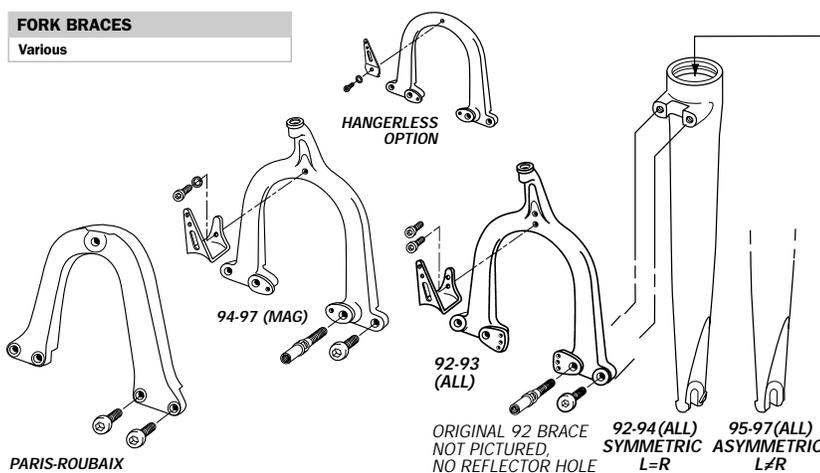
BUSHING ASSEMBLIES

92 Mag (All)	93 Mag (All)	94-97 (All)	Paris-Roubaix
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FORK BRACES

Various



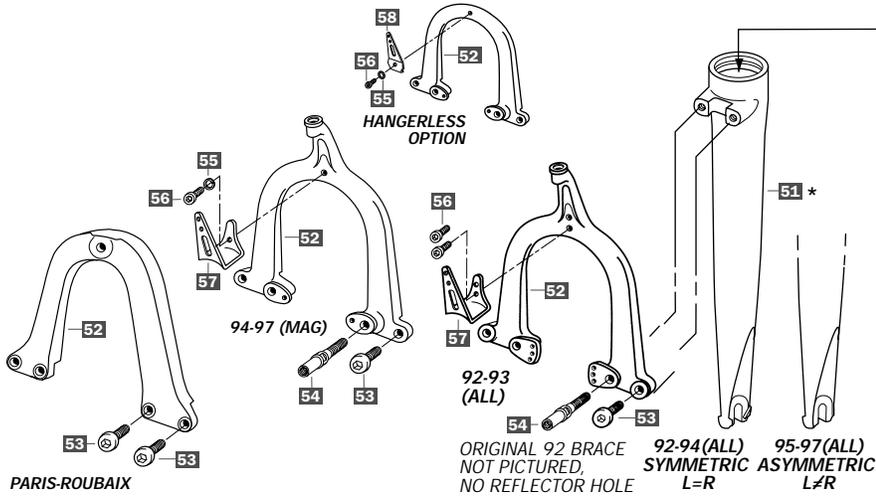
PARIS-ROUBAIX



MAG SERIES 1992-97

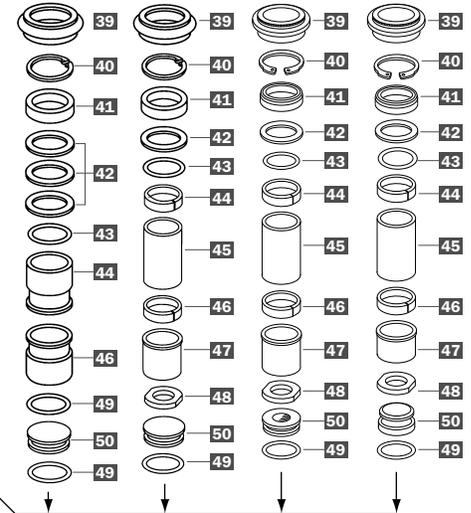
FORK BRACES

Various



BUSHING ASSEMBLIES

92 Mag (All) 93 Mag (All) 94-97 (All) Paris-Roubaix



NOTE: Available as an assembly only, includes whichever items 48-50 pertain to a given casting.

PARIS-ROUBAIX



PARTS LIST (CONTINUED)

Bushings and seals:	Ref	Part Name	92		93		94			95	96-97	95-96
			Mag 30	Mag 20	Mag 10	Mag 21	Mag 10	Mag 21	21SL/Ti	Mag 21	Mag 21	Paris-Roubaix
1994-97 uses a bigger diameter upper bushing. If changing lower assemblies or bushings, pay attention to this point. Use dust wipers with boots for extra contamination protection wherever possible, though 1994-97 (except Mag 10) did not originally come with a wiper.	39	Dust Wiper	56107	56107	56107	56107	56107	56107	56107	56107	56107	56107
	40	Main Seal Retaining Ring	50107	50107	50107	50107	50107	50107	50107	50107	50107	50107
	41	Main Seal	56403	56403	56403	56403	56403	56403	56403	56403	56403	56403
	42	Bushing Washer	52201	52201	52201	52201	52201	52201	52201	52201	52201	52201
	43	Main Seal O-ring	51104	51104	51104	51104	51104	51104	51104	51104	51104	51104
	44	Upper Bushing	42400	42400	54131	54131	54125	54125	54125	54125	54125	54125
	45	Bushing Spacer			53130	53130	53130	53130	53130	53130	53130	53130
	46	Lower Bushing	42400	42400	54131	54131	54131	54131	54131	54131	54131	54131
	47	Top Out Sleeve (standard travel)			53124	53124	53124	53124	53124	53124	53124	53124
	47	Top Out Sleeve (long travel)			53123	53123	53123	53123	53123	53123	53123	53123
48	Bottom Washer			56305	56305	56305	56305	56305	56305	56305	56305	
49	Bottom Plate O-ring	51107	51107	51117	51117	51117	51117	51117	51117	51117	51129	
50	Bottom Molded Plate	42210	42210	42212	42212	42222	42222	42222	42222	42222	42221	
Lower Tube assemblies: Lower Tube assemblies: 1: When replacing pre-1994 with 1994 or later, use the newer upper bushing (different dimension). 2: Note that pre-1995 legs have dropout tabs on both sides (L & R). 3: 1994 models are pictured with 1994 style legs, but numbers shown below are for available 1995 style replacements. Example: The M21SL had greenish-gold symmetrical legs part #40732; The M21SLTi translucent gold part #40737. Both replaced by numbers below.	51	Lower Tube Assembly, Champagne (R)									20527	20526
	51	Lower tube assembly, Champagne (L)									20528	20525
	51	Lower Tube Assembly, Gold (R)					20517	20517	20523	20517		
	51	Lower Tube Assembly, Gold (L)					20518	20518	20524	20518		
	51	Lower Tube Assembly, Gold (L & R)	20207	20207	20207	20207						
Fork Braces and bolts: Original 1992 braces and brace bolts are not shown. Braces shown can accept boots and all are interchangeable.	52	Fork Brace, Champagne									49001	
	52	Fork Brace (hangerless option), Champagne									48950	
	52	Fork Brace (hangerless option), Black									48954	
	52	Fork Brace, Gold (1995)							48987			
	52	Fork Brace, Black ('93 version w/2 ref brkt holes)	48998	48998	48998	48998	48998	48998			48998	
	52	Fork Brace, Magnesium							48990			
	52	Fork Brace, Champagne (Road)										48988
	53	Brace Bolt (Ti=46172)	46169	46169	46169	46169	46169	46169	46172	46169	46169	46172
54	Brake Post (Ti=49129)	48125	48125	48125	48125	48125	48125	48129	48123	48123		
Reflector Mounts: Original 1992 braces can be replaced as above. Bracket 60337 is good for hangerless brace.	55	Lock Reflector Bracket Washer					52222	52222	52222	52222	52222	uses non-RockShox reflector bracket
	56	Reflector Bracket Screw	47171	47171	47171	47171	47171	47171	47171	47171	47171	
	57	Reflector Bracket	60335	60335	60335	60335	60335	60335	60335	60335	60335	
	58	Ref. Brkt. F/Hangerless Brace (option)									60337	

PARIS-ROUBAIX



MAG SERIES ASSEMBLY & DISASSEMBLY

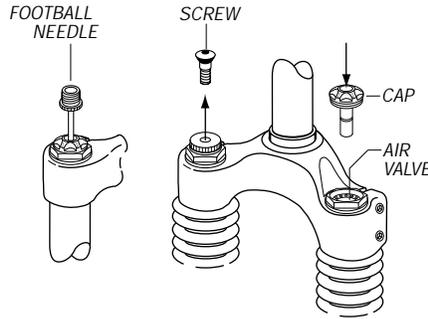
PRESSURIZATION

Drawings may not match the exact model on which you are working. See the schematics and parts lists for individual model details.

Note: Wear safely glasses. Contents under pressure and oil may shoot out.

1 DISASSEMBLY

- 1 Remove caps or screws covering air valves.
- 2 Lubricate football needle, then insert it into the valves to depressurize legs, taking care to point it away from your face.



Tip: Lubricating the valve needle reduces valve wear, extending valve life. Judy Butter or Slick Honey are two good lubricant choices.

- 1 After 1 hour at 80 to 100 psi, release air and pump to final setting (see tuning charts).
- 2 Attach air valve covers or screws.

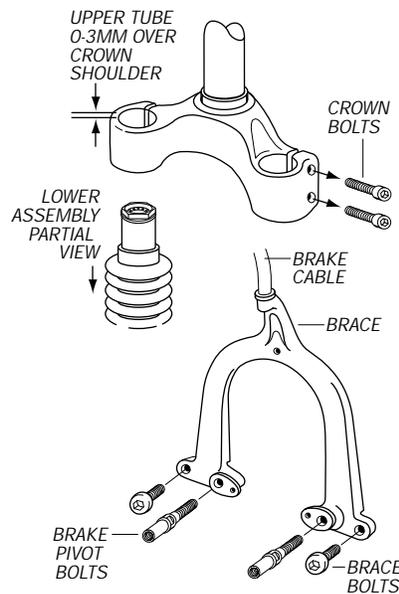
12 ASSEMBLY



CROWN & BRACE

2 DISASSEMBLY

- 1 Disconnect brake cable.
- 2 Remove crown bolts.
- 3 Remove lower assembly from crown.
- 4 Remove brace by removing brakes, brace and brake pivot bolts



- 1 Place brace on lower legs and attach bolts using blue Loctite and torque to 60 in-lb (6.8Nm). Install brakes to manufacturer's specs.
- 2 Install lower leg assembly onto crown, setting height 0-3mm above crown shoulder, twist upper tubes to align first adjuster marking with crown slot (if with adjuster knob) and torque to 60 in-lb (6.8Nm).
- 3 Reinstall brake cable, confirm brake function.

11 ASSEMBLY



PARIS-ROUBAIX

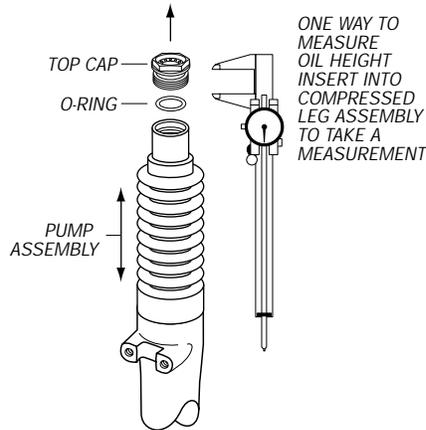


Note: Dropouts have a small hole leading to the inside of the lower legs. If the seal (bottom plate O-ring) fails, oil will leak through the hole, and a full disassembly (through step 5) is needed for gaining access to the O-rings to replace them.



3 DISASSEMBLY

- 1 Remove top caps:
92 Mag 30, 93 Mag10 - Circlip type: Push cap down into tube to access clip. Pry out clip, then pull out cap using a 6mm hex wrench.
All other Mag - Threaded type: Unthread, typically with 19mm or 22mm wrench (8mm hex wrench for 94 Mag 10). Hold steady to avoid parts below cap.
- 2 Drain oil responsibly.
- 3 Check dropouts carefully, as they can break off when worn out.



- 1 Add oil (per chart). *Slowly* pump assembly 10+ times through the *full* range to remove air pockets, without disturbing the bottom plate, and then set final oil height level. Note: If oil is visible in the dropout hole, the leg must be completely disassembled and the bottom plate reinstalled.
- 2 Before installing top caps be sure the O-rings are greased and that caps (most models) engage adjuster rod with bottom of adjuster head.
- 3 After caps are attached, pressurize legs to 80-100 psi to seat parts (one hour).



10 ASSEMBLY

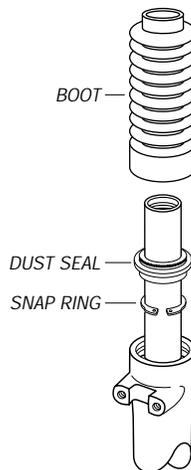
RETAINING RINGS

Note: some models may or may not have boots or dust seals. Both are recommended for maximum contaminant protection. The reduction in "stiction" by omitting the dust seal is minor in relation to protection this affords.



4 DISASSEMBLY

- 1 Remove boots.
- 2 Pry out and remove dust seals.
- 3 Unclip and remove snap rings. Sometimes removal is easier with a flathead screwdriver than snap ring pliers.
- 4 Clean, inspect and replace as needed.



- 1 Install snap rings, sharp edge up. Make sure they are seated completely into the groove.
- 2 Grease and install the dust seals.
- 3 Grease boots (internally) and install.

9 ASSEMBLY





MAG SERIES ASSEMBLY & DISASSEMBLY

SEALS & BUSHINGS

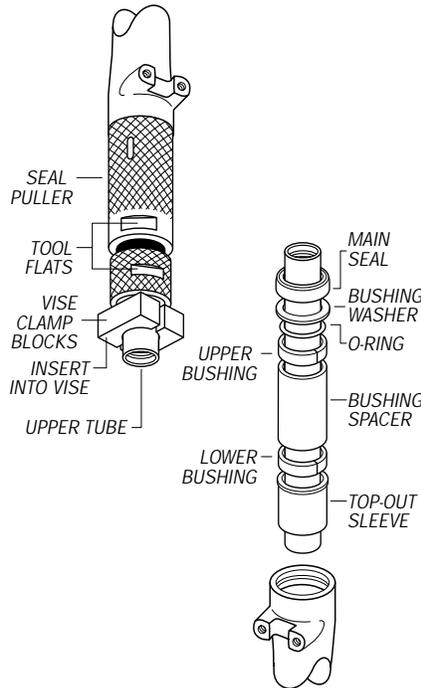
Note: See schematics for particular model parts differences. Also: upper bushings are bigger than lower ones on models from 1994. Don't mix.

5 DISASSEMBLY

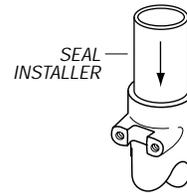
- 1 Telescope out upper tube in lower leg.
- 2 Slide on seal puller and clamp assembly in a vise using the vise clamp blocks.
- 3 Extract the upper tube assembly by hand, unthreading the seal puller.

Note: if hand unthreading fails, use a hair dryer (no open flame) to heat parts. If that fails, use 32mm and 36mm wrenches on tool flats. Sometimes, under the pressure the top-out snap ring breaks and the upper tube will pull out, leaving the bushings, etc., stuck in the lower leg. If this happens, use the

bushing removal tool following the Quadra Bushing and Seals procedure (page 5-12). Replace the broken snap ring.



- 4 After removing the tools, slide parts off the upper tubes noting their position.
- 5 Clean, inspect and replace as needed.



- 1 Reassemble upper tube assembly in the correct order.
- 2 Install assemblies into lower legs and seat parts by gently pressing down with the seal installer.
- 3 Grease main seal all over and install with small spring side downward. Press into place with seal installer tool with its large bore side facing the seal.

8 ASSEMBLY

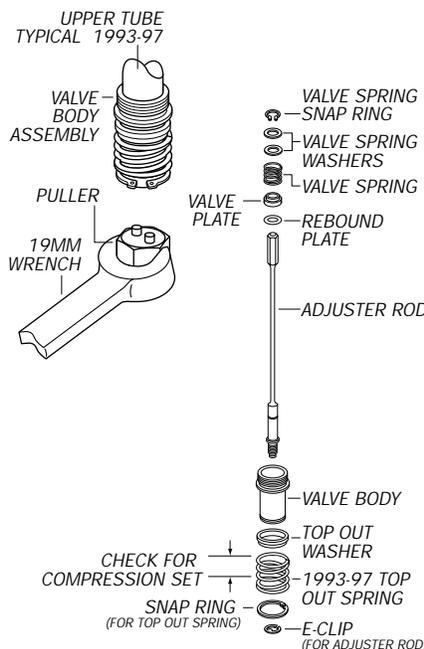
Tip: Alternative Bushing Assembly / Disassembly procedure shown, starting on page 3-16

VALVE PARTS

Note: See schematics for particular model parts arrangements. Tuning can be altered by changing some valve parts such as the body, valve plates, valve springs, and altering number of washers. See the tuning charts for assistance.

6 DISASSEMBLY

- 1 Remove valve body with puller (clamp in vise with blocks).
- 2 Check top-out compression set (93-97 only) by removing snap ring, then top-out spring. Replace if length is less than 21mm.
- 3 Remove adjusting rod or bolt by taking off e-clip (thread rod deeper into body to expose e-clip if needed). If there is no e-clip (92 only) simply unscrew out. Remove valve spring snap ring (some models only).
- 4 Clean, inspect and replace as needed.



Safety point: make sure snap ring is completely seated upon reinstallation, or fork will come apart.

- 1 Reassemble adjuster parts on valve body in the correct order and alignment. If in doubt, check with the schematics.
- 2 Reposition top-out spring and attach snap ring with sharp edge facing down on body.
- 3 Screw body assembly on to upper tubes using blue Loctite and 420 in-lb (47.4Nm).

7 ASSEMBLY

PARIS-ROUBAIX