E-Moto Coil Shock

Service Manual –

This manual is meant for authorized Formula Service Centers.

The manual contains information regarding the complete servicing of the E-Moto coil shock.

Ammortizzatore con bladder
Shock with bladder

Ammortizzatore con IFP
Shock with IFP

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Important Information and Maintenance Intervals:

IMPORTANT	
	Products used repeatedly in extreme conditions will require more frequent servicing. The use of high-pressure washing methods, non-original spare parts and non-recommended solvents and lubricants reduces the lifespan of our products.

IMPORTANT	
	⚜ Formula recommends only ORIGINAL spare parts and lubricant products. ⚜ Formula recommends consulting servicing technicians for these activities.

SAFETY INFORMATION	
	Always wear nitrile gloves and safety glasses when working on the shock absorber. Ensure correct disposal of waste materials and liquids. Always ensure the shock absorber is fully depressurized when specified in the manual. Servicing the shock absorber whilst pressurized can cause severe or fatal injuries.

To keep the rear shock absorber efficient during normal usage and ensure proper maintenance, follow the maintenance intervals specified by ⚜ Formula:

Procedure	Prima e Dopo Ogni Uscita	Ogni 8 Ore 1 Mese	Ogni 35 Ore 3 Mesi	Ogni 100 Ore 1 Anno
Wash with water and mild soap. Visual inspection	X			
Check sag and air pressure		X		
Check piggyback reservoir pressure			X	
Oil change and complete inspection				X

- Items marked with ■ in the exploded view are part of the Kit 100h.

Use the table below to keep track of the spring preload measurement and return to the pre-service settings once the servicing has been completed:

Date	Spring Preload Measure	Notes

Parts list

Position	Customer	Fork Code	Description	Part number
1	Electric Motion	280014181	Kit Cap	F260063
1	Artic Leopard	280014261	Kit Cap	F260063
1	Talaria	280014292	Kit Cap	F260063
1	Sur Ron	280014301	Kit Cap	F260063
1	Sur Ron	280014302	Kit Cap	F260063
1	AM - (TA)	280014900	Kit Cap	F260063
1	AM - (TA)	280014901	Kit Cap	F260063
1	AM - (SU)	280014902	Kit Cap	F260063
1	AM - (SU)	280014903	Kit Cap	F260063
1	AM - (AL)	280014904	Kit Cap	F260063
2	Electric Motion	280014181	Rebound Head	100019201
2	Artic Leopard	280014261	Rebound Head	100018201
2	Talaria	280014292	Rebound Head	100031201
2	Sur Ron	280014301	Rebound Head	100024201
2	Sur Ron	280014302	Rebound Head	100031201
2	AM - (TA)	280014900	Rebound Head	100031201
2	AM - (TA)	280014901	Rebound Head	100031201
2	AM - (SU)	280014902	Rebound Head	100031201
2	AM - (SU)	280014903	Rebound Head	100024201
2	AM - (AL)	280014904	Rebound Head	100018201
7	Electric Motion	280014181	Body Cylinder	082024801
7	Artic Leopard	280014261	Body Cylinder	082028801
7	Talaria	280014292	Body Cylinder	082034801
7	Sur Ron	280014301	Body Cylinder	082035801
7	Sur Ron	280014302	Body Cylinder	082034801
7	AM - (TA)	280014900	Body Cylinder	082034801
7	AM - (TA)	280014901	Body Cylinder	082034801
7	AM - (SU)	280014902	Body Cylinder	082034801
7	AM - (SU)	280014903	Body Cylinder	082035801
7	AM - (AL)	280014904	Body Cylinder	082028801
8	Electric Motion	280014181	Spring Regulation Ring	050035201
8	Artic Leopard	280014261	Spring Regulation Ring	050035201
8	Talaria	280014292	Spring Regulation Ring	050035201
8	Sur Ron	280014301	Spring Regulation Ring	050035201
8	Sur Ron	280014302	Spring Regulation Ring	050035201
8	AM - (TA)	280014900	Spring Regulation Ring	050035201
8	AM - (TA)	280014901	Spring Regulation Ring	050035201
8	AM - (SU)	280014902	Spring Regulation Ring	050035201
8	AM - (SU)	280014903	Spring Regulation Ring	050035201
8	AM - (AL)	280014904	Spring Regulation Ring	050035201

9	Electric Motion	280014181	Tank for Bladder	AM-C025-05
9	Artic Leopard	280014261	IFP Reservoir	AM-C103-05
9	Talaria	280014292	IFP Reservoir	AM-C103-05
9	Sur Ron	280014301	IFP Reservoir	AM-C103-05
9	Sur Ron	280014302	IFP Reservoir	AM-C103-05
9	AM - (TA)	280014900	IFP Reservoir	AM-C103-05
9	AM - (TA)	280014901	IFP Reservoir	AM-C103-05
9	AM - (SU)	280014902	IFP Reservoir	AM-C103-05
9	AM - (SU)	280014903	IFP Reservoir	AM-C103-05
9	AM - (AL)	280014904	IFP Reservoir	AM-C103-05
12	Electric Motion	280014181	Tech Suspension Sticker	071013000
12	Artic Leopard	280014261	Tech Suspension Sticker	071013000
12	Talaria	280014292	Tech Suspension Sticker	071013000
12	Sur Ron	280014301	Tech Suspension Sticker	071013000
12	Sur Ron	280014302	Tech Suspension Sticker	071013000
12	AM - (TA)	280014900	Tech Suspension Sticker	071013000
12	AM - (TA)	280014901	Tech Suspension Sticker	071013000
12	AM - (SU)	280014902	Tech Suspension Sticker	071013000
12	AM - (SU)	280014903	Tech Suspension Sticker	071013000
12	AM - (AL)	280014904	Tech Suspension Sticker	071013000
13	Electric Motion	280014181	End Stroke Bumper	065015000
13	Artic Leopard	280014261	End Stroke Bumper	065015000
13	Talaria	280014292	End Stroke Bumper	065015000
13	Sur Ron	280014301	End Stroke Bumper	065015000
13	Sur Ron	280014302	End Stroke Bumper	065015000
13	AM - (TA)	280014900	End Stroke Bumper	065015000
13	AM - (TA)	280014901	End Stroke Bumper	065015000
13	AM - (SU)	280014902	End Stroke Bumper	065015000
13	AM - (SU)	280014903	End Stroke Bumper	065015000
13	AM - (AL)	280014904	End Stroke Bumper	065015000
14	Electric Motion	280014181	Ring Support Spring	050034201
14	Artic Leopard	280014261	Ring Support Spring	050034201
14	Talaria	280014292	Ring Support Spring	050034201
14	Sur Ron	280014301	Ring Support Spring	050034201
14	Sur Ron	280014302	Ring Support Spring	050034201
14	AM - (TA)	280014900	Ring Support Spring	050034201
14	AM - (TA)	280014901	Ring Support Spring	050034201
14	AM - (SU)	280014902	Ring Support Spring	050034201
14	AM - (SU)	280014903	Ring Support Spring	050034201
14	AM - (AL)	280014904	Ring Support Spring	050034201
15	Electric Motion	280014181	Seeger Cap Compression	051007000
15	Artic Leopard	280014261	Seeger Cap Compression	051007000
15	Talaria	280014292	Seeger Cap Compression	051007000
15	Sur Ron	280014301	Seeger Cap Compression	051007000
15	Sur Ron	280014302	Seeger Cap Compression	051007000

15	AM - (TA)	280014900	Seeger Cap Compression	051007000
15	AM - (TA)	280014901	Seeger Cap Compression	051007000
15	AM - (SU)	280014902	Seeger Cap Compression	051007000
15	AM - (SU)	280014903	Seeger Cap Compression	051007000
15	AM - (AL)	280014904	Seeger Cap Compression	051007000
16	Electric Motion	280014181	Cap for Head	050033201
16	Artic Leopard	280014261	Cap for Head	050033201
16	Talaria	280014292	Cap for Head	050033201
16	Sur Ron	280014301	Cap for Head	050033201
16	Sur Ron	280014302	Cap for Head	050033201
16	AM - (TA)	280014900	Cap for Head	050033201
16	AM - (TA)	280014901	Cap for Head	050033201
16	AM - (SU)	280014902	Cap for Head	050033201
16	AM - (SU)	280014903	Cap for Head	050033201
16	AM - (AL)	280014904	Cap for Head	050033201
29	Electric Motion	280014181	Nut M12x1,25	037003000
29	Artic Leopard	280014261	Nut M12x1,25	037003000
29	Talaria	280014292	Nut M12x1,25	037003000
29	Sur Ron	280014301	Nut M12x1,25	037003000
29	Sur Ron	280014302	Nut M12x1,25	037003000
29	AM - (TA)	280014900	Nut M12x1,25	037003000
29	AM - (TA)	280014901	Nut M12x1,25	037003000
29	AM - (SU)	280014902	Nut M12x1,25	037003000
29	AM - (SU)	280014903	Nut M12x1,25	037003000
29	AM - (AL)	280014904	Nut M12x1,25	037003000
30	Electric Motion	280014181	PIGGIBACK	083001221
30	Artic Leopard	280014261	PIGGIBACK	083003201
30	Talaria	280014292	PIGGIBACK	083003201
30	Sur Ron	280014301	PIGGIBACK	083003201
30	Sur Ron	280014302	PIGGIBACK	083003201
30	AM - (TA)	280014900	PIGGIBACK	083003201
30	AM - (TA)	280014901	PIGGIBACK	083003201
30	AM - (SU)	280014902	PIGGIBACK	083003201
30	AM - (SU)	280014903	PIGGIBACK	083003201
30	AM - (AL)	280014904	PIGGIBACK	083003201
31	Electric Motion	280014181	PIGGIBACK'S Screw KIT	F260147
31	Artic Leopard	280014261	PIGGIBACK'S Screw KIT	F260147
31	Talaria	280014292	PIGGIBACK'S Screw KIT	F260147
31	Sur Ron	280014301	PIGGIBACK'S Screw KIT	F260147
31	Sur Ron	280014302	PIGGIBACK'S Screw KIT	F260147
31	AM - (TA)	280014900	PIGGIBACK'S Screw KIT	F260147
31	AM - (TA)	280014901	PIGGIBACK'S Screw KIT	F260147
31	AM - (SU)	280014902	PIGGIBACK'S Screw KIT	F260147
31	AM - (SU)	280014903	PIGGIBACK'S Screw KIT	F260147
31	AM - (AL)	280014904	PIGGIBACK'S Screw KIT	F260147

33	Electric Motion	280014181	KIT CTS ORANGE (MEDIUM)	AM40041-00
33	Electric Motion	280014181	KIT CTS GREEN (FIRM)	AM40042-00
33	Electric Motion	280014181	KIT CTS GOLD (SOFT)	AM40043-00
33	Artic Leopard	280014261	KIT CTS ORANGE (MEDIUM)	AM40041-00
33	Artic Leopard	280014261	KIT CTS GREEN (FIRM)	AM40042-00
33	Artic Leopard	280014261	KIT CTS GOLD (SOFT)	AM40043-00
33	Talaria	280014292	KIT CTS ORANGE (MEDIUM)	AM40041-00
33	Talaria	280014292	KIT CTS GREEN (FIRM)	AM40042-00
33	Talaria	280014292	KIT CTS GOLD (SOFT)	AM40043-00
33	Sur Ron	280014301	KIT CTS ORANGE (MEDIUM)	AM40041-00
33	Sur Ron	280014301	KIT CTS GREEN (FIRM)	AM40042-00
33	Sur Ron	280014301	KIT CTS GOLD (SOFT)	AM40043-00
33	Sur Ron	280014302	KIT CTS ORANGE (MEDIUM)	AM40041-00
33	Sur Ron	280014302	KIT CTS GREEN (FIRM)	AM40042-00
33	Sur Ron	280014302	KIT CTS GOLD (SOFT)	AM40043-00
33	AM - (TA)	280014900	KIT CTS ORANGE (MEDIUM)	AM40041-00
33	AM - (TA)	280014900	KIT CTS GREEN (FIRM)	AM40042-00
33	AM - (TA)	280014900	KIT CTS GOLD (SOFT)	AM40043-00
33	AM - (TA)	280014901	KIT CTS ORANGE (MEDIUM)	AM40041-00
33	AM - (TA)	280014901	KIT CTS GREEN (FIRM)	AM40042-00
33	AM - (TA)	280014901	KIT CTS GOLD (SOFT)	AM40043-00
33	AM - (SU)	280014902	KIT CTS ORANGE (MEDIUM)	AM40041-00
33	AM - (SU)	280014902	KIT CTS GREEN (FIRM)	AM40042-00
33	AM - (SU)	280014902	KIT CTS GOLD (SOFT)	AM40043-00
33	AM - (SU)	280014903	KIT CTS ORANGE (MEDIUM)	AM40041-00
33	AM - (SU)	280014903	KIT CTS GREEN (FIRM)	AM40042-00
33	AM - (SU)	280014903	KIT CTS GOLD (SOFT)	AM40043-00
33	AM - (AL)	280014904	KIT CTS ORANGE (MEDIUM)	AM40041-00
33	AM - (AL)	280014904	KIT CTS GREEN (FIRM)	AM40042-00
33	AM - (AL)	280014904	KIT CTS GOLD (SOFT)	AM40043-00
34	Electric Motion	280014181	CTS KNOB KIT	AM40027-00

34	Artic Leopard	280014261	CTS KNOB KIT	AM40027-00
34	Talaria	280014292	CTS KNOB KIT	AM40027-00
34	Sur Ron	280014301	CTS KNOB KIT	AM40027-00
34	Sur Ron	280014302	CTS KNOB KIT	AM40027-00
34	AM - (TA)	280014900	CTS KNOB KIT	AM40027-00
34	AM - (TA)	280014901	CTS KNOB KIT	AM40027-00
34	AM - (SU)	280014902	CTS KNOB KIT	AM40027-00
34	AM - (SU)	280014903	CTS KNOB KIT	AM40027-00
34	AM - (AL)	280014904	CTS KNOB KIT	AM40027-00
39	Electric Motion	280014181	CAP TANK	AM-T011-05
40	Electric Motion	280014181	AIR VALVE PROTECTION CAP	AM-T023-05
41	Artic Leopard	280014261	IFP	AM-S057-05
41	Talaria	280014292	IFP	AM-S057-05
41	Sur Ron	280014301	IFP	AM-S057-05
41	Sur Ron	280014302	IFP	AM-S057-05
41	AM - (TA)	280014900	IFP	AM-S057-05
41	AM - (TA)	280014901	IFP	AM-S057-05
41	AM - (SU)	280014902	IFP	AM-S057-05
41	AM - (SU)	280014903	IFP	AM-S057-05
41	AM - (AL)	280014904	IFP	AM-S057-05
42	Artic Leopard	280014261	BODY GAS VALVE IFP	AM-T054-05
42	Talaria	280014292	BODY GAS VALVE IFP	AM-T054-05
42	Sur Ron	280014301	BODY GAS VALVE IFP	AM-T054-05
42	Sur Ron	280014302	BODY GAS VALVE IFP	AM-T054-05
42	AM - (TA)	280014900	BODY GAS VALVE IFP	AM-T054-05
42	AM - (TA)	280014901	BODY GAS VALVE IFP	AM-T054-05
42	AM - (SU)	280014902	BODY GAS VALVE IFP	AM-T054-05
42	AM - (SU)	280014903	BODY GAS VALVE IFP	AM-T054-05
42	AM - (AL)	280014904	BODY GAS VALVE IFP	AM-T054-05
45	Artic Leopard	280014261	Cap Valve	SB-T100-05
45	Talaria	280014292	Cap Valve	SB-T100-05
45	Sur Ron	280014301	Cap Valve	SB-T100-05
45	Sur Ron	280014302	Cap Valve	SB-T100-05
45	AM - (TA)	280014900	Cap Valve	SB-T100-05
45	AM - (TA)	280014901	Cap Valve	SB-T100-05
45	AM - (SU)	280014902	Cap Valve	SB-T100-05
45	AM - (SU)	280014903	Cap Valve	SB-T100-05
45	AM - (AL)	280014904	Cap Valve	SB-T100-05
46	Electric Motion	280014181	Washer Spring Registration Ring	042026000
46	Artic Leopard	280014261	Washer Spring Registration Ring	042026000
46	Talaria	280014292	Washer Spring Registration Ring	042026000
46	Sur Ron	280014301	Washer Spring Registration Ring	042026000

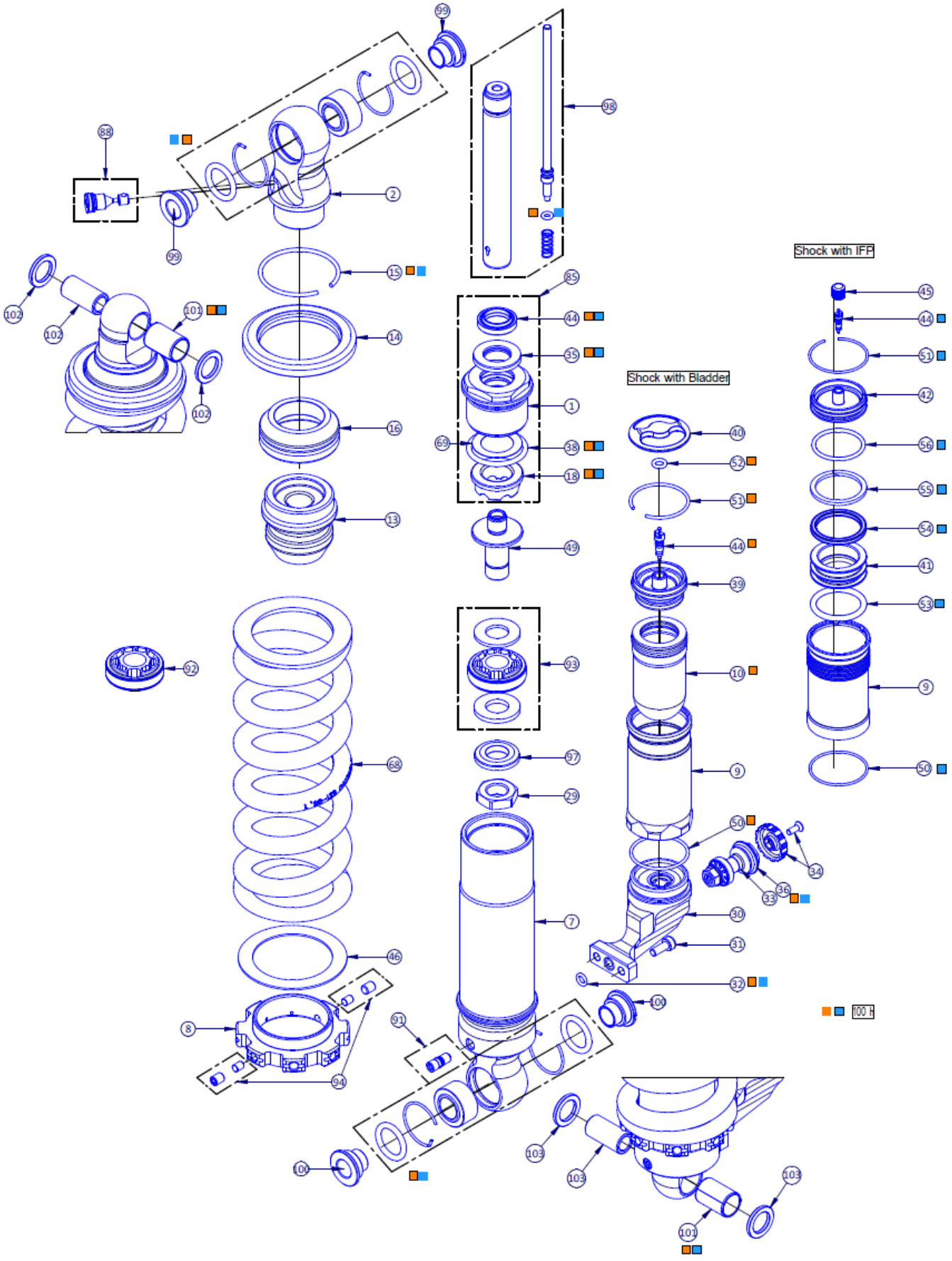
46	Sur Ron	280014302	Washer Spring Registration Ring	042026000
46	AM - (TA)	280014900	Washer Spring Registration Ring	042026000
46	AM - (TA)	280014901	Washer Spring Registration Ring	042026000
46	AM - (SU)	280014902	Washer Spring Registration Ring	042026000
46	AM - (SU)	280014903	Washer Spring Registration Ring	042026000
46	AM - (AL)	280014904	Washer Spring Registration Ring	042026000
49	Electric Motion	280014181	Piston Pin	056007300
49	Artic Leopard	280014261	Piston Pin	056007300
49	Talaria	280014292	Piston Pin	056007300
49	Sur Ron	280014301	Piston Pin	056007300
49	Sur Ron	280014302	Piston Pin	056007300
49	AM - (TA)	280014900	Piston Pin	056007300
49	AM - (TA)	280014901	Piston Pin	056007300
49	AM - (SU)	280014902	Piston Pin	056007300
49	AM - (SU)	280014903	Piston Pin	056007300
49	AM - (AL)	280014904	Piston Pin	056007300
68	Electric Motion	280014181	Anthracite Spring (K 98,1)	090961631
68	Artic Leopard	280014261	Anthracite Spring (K 78,8)	091002101
68	Artic Leopard	280014261	Anthracite Spring (K 105,6)	091102101
68	Talaria	280014292	Anthracite Spring (K 78,8)	091002101
68	Talaria	280014292	Anthracite Spring (K 105,6)	091102101
68	Sur Ron	280014301	Anthracite Spring (K 78,8)	091002101
68	Sur Ron	280014301	Anthracite Spring (K 105,6)	091102101
68	Sur Ron	280014302	Anthracite Spring (K 78,8)	091002101
68	Sur Ron	280014302	Anthracite Spring (K 105,6)	091102101
68	AM - (TA)	280014900	Anthracite Spring (K 78,8)	091002101
68	AM - (TA)	280014900	Anthracite Spring (K 105,6)	091102101
68	AM - (TA)	280014901	Anthracite Spring (K 78,8)	091002101
68	AM - (TA)	280014901	Anthracite Spring (K 105,6)	091102101
68	AM - (SU)	280014902	Anthracite Spring (K 78,8)	091002101
68	AM - (SU)	280014902	Anthracite Spring (K 105,6)	091102101
68	AM - (SU)	280014903	Anthracite Spring (K 78,8)	091002101
68	AM - (SU)	280014903	Anthracite Spring (K 105,6)	091102101
68	AM - (AL)	280014904	Anthracite Spring (K 78,8)	091002101
68	AM - (AL)	280014904	Anthracite Spring (K 105,6)	091102101
69	Electric Motion	280014181	Anti Extrusion Spacer for Rebound Bumper (18) (MY24)	061172603
69	Artic Leopard	280014261	Anti Extrusion Spacer for Rebound Bumper (18) (MY24)	061172603
69	Talaria	280014292	Anti Extrusion Spacer for Rebound Bumper (18) (MY24)	061172603
69	Sur Ron	280014301	Anti Extrusion Spacer for Rebound Bumper (18) (MY24)	061172603
69	Sur Ron	280014302	Anti Extrusion Spacer for Rebound Bumper (18) (MY24)	061172603
69	AM - (TA)	280014900	Anti Extrusion Spacer for Rebound Bumper (18) (MY24)	061172603
69	AM - (TA)	280014901	Anti Extrusion Spacer for Rebound Bumper (18) (MY24)	061172603
69	AM - (SU)	280014902	Anti Extrusion Spacer for Rebound Bumper (18) (MY24)	061172603
69	AM - (SU)	280014903	Anti Extrusion Spacer for Rebound Bumper (18) (MY24)	061172603
69	AM - (AL)	280014904	Anti Extrusion Spacer for Rebound Bumper (18) (MY24)	061172603
85	Electric Motion	280014181	Kit Oil Seals Cap	F260069

85	Artic Leopard	280014261	Kit Oil Seals Cap	F260069
85	Talaria	280014292	Kit Oil Seals Cap	F260069
85	Sur Ron	280014301	Kit Oil Seals Cap	F260069
85	Sur Ron	280014302	Kit Oil Seals Cap	F260069
85	AM - (TA)	280014900	Kit Oil Seals Cap	F260069
85	AM - (TA)	280014901	Kit Oil Seals Cap	F260069
85	AM - (SU)	280014902	Kit Oil Seals Cap	F260069
85	AM - (SU)	280014903	Kit Oil Seals Cap	F260069
85	AM - (AL)	280014904	Kit Oil Seals Cap	F260069
88	Electric Motion	280014181	Kit Rebound Adjuster	F260103
88	Artic Leopard	280014261	Kit Rebound Adjuster	F260103
88	Talaria	280014292	Kit Rebound Adjuster	F260103
88	Sur Ron	280014301	Kit Rebound Adjuster	F260103
88	Sur Ron	280014302	Kit Rebound Adjuster	F260103
88	AM - (TA)	280014900	Kit Rebound Adjuster	F260103
88	AM - (TA)	280014901	Kit Rebound Adjuster	F260103
88	AM - (SU)	280014902	Kit Rebound Adjuster	F260103
88	AM - (SU)	280014903	Kit Rebound Adjuster	F260103
88	AM - (AL)	280014904	Kit Rebound Adjuster	F260103
91	Electric Motion	280014181	Kit Oil Cap Screw	F260074
91	Artic Leopard	280014261	Kit Oil Cap Screw	F260074
91	Talaria	280014292	Kit Oil Cap Screw	F260074
91	Sur Ron	280014301	Kit Oil Cap Screw	F260074
91	Sur Ron	280014302	Kit Oil Cap Screw	F260074
91	AM - (TA)	280014900	Kit Oil Cap Screw	F260074
91	AM - (TA)	280014901	Kit Oil Cap Screw	F260074
91	AM - (SU)	280014902	Kit Oil Cap Screw	F260074
91	AM - (SU)	280014903	Kit Oil Cap Screw	F260074
91	AM - (AL)	280014904	Kit Oil Cap Screw	F260074
92	Electric Motion	280014181	Kit Main Piston	F260075
92	Artic Leopard	280014261	Kit Main Piston	F260075
92	Talaria	280014292	Kit Main Piston	F260075
92	Sur Ron	280014301	Kit Main Piston	F260075
92	Sur Ron	280014302	Kit Main Piston	F260075
92	AM - (TA)	280014900	Kit Main Piston	F260075
92	AM - (TA)	280014901	Kit Main Piston	F260075
92	AM - (SU)	280014902	Kit Main Piston	F260075
92	AM - (SU)	280014903	Kit Main Piston	F260075
92	AM - (AL)	280014904	Kit Main Piston	F260075
93	Electric Motion	280014181	Kit Main Piston with Shims	F260148
93	Artic Leopard	280014261	Kit Main Piston with Shims	F260149
93	Talaria	280014292	Kit Main Piston with Shims	F260149
93	Sur Ron	280014301	Kit Main Piston with Shims	F260150
93	Sur Ron	280014302	Kit Main Piston with Shims	F260149
93	AM - (TA)	280014900	Kit Main Piston with Shims	F260149
93	AM - (TA)	280014901	Kit Main Piston with Shims	F260149

93	AM - (SU)	280014902	Kit Main Piston with Shims	F260149
93	AM - (SU)	280014903	Kit Main Piston with Shims	F260150
93	AM - (AL)	280014904	Kit Main Piston with Shims	F260149
94	Electric Motion	280014181	Kit Preload Nut	F260078
94	Artic Leopard	280014261	Kit Preload Nut	F260078
94	Talaria	280014292	Kit Preload Nut	F260078
94	Sur Ron	280014301	Kit Preload Nut	F260078
94	Sur Ron	280014302	Kit Preload Nut	F260078
94	AM - (TA)	280014900	Kit Preload Nut	F260078
94	AM - (TA)	280014901	Kit Preload Nut	F260078
94	AM - (SU)	280014902	Kit Preload Nut	F260078
94	AM - (SU)	280014903	Kit Preload Nut	F260078
94	AM - (AL)	280014904	Kit Preload Nut	F260078
97	Electric Motion	280014181	Upper Disc Ring	042022000
97	Artic Leopard	280014261	Upper Disc Ring	042022000
97	Talaria	280014292	Upper Disc Ring	042022000
97	Sur Ron	280014301	Upper Disc Ring	042022000
97	Sur Ron	280014302	Upper Disc Ring	042022000
97	AM - (TA)	280014900	Upper Disc Ring	042022000
97	AM - (TA)	280014901	Upper Disc Ring	042022000
97	AM - (SU)	280014902	Upper Disc Ring	042022000
97	AM - (SU)	280014903	Upper Disc Ring	042022000
97	AM - (AL)	280014904	Upper Disc Ring	042022000
98	Electric Motion	280014181	Kit Complete Stem	F260151
98	Artic Leopard	280014261	Kit Complete Stem	F260152
98	Talaria	280014292	Kit Complete Stem	F260152
98	Sur Ron	280014301	Kit Complete Stem	F260152
98	Sur Ron	280014302	Kit Complete Stem	F260152
98	AM - (TA)	280014900	Kit Complete Stem	F260152
98	AM - (TA)	280014901	Kit Complete Stem	F260152
98	AM - (SU)	280014902	Kit Complete Stem	F260152
98	AM - (SU)	280014903	Kit Complete Stem	F260152
98	AM - (AL)	280014904	Kit Complete Stem	F260152
99	Electric Motion	280014181	Kit Head Spacers	F260094
99	Artic Leopard	280014261	Kit Head Spacers	F260096
99	Sur Ron	280014301	Kit Head Spacers	F260130
99	AM - (SU)	280014903	Kit Head Spacers	F260130
99	AM - (AL)	280014904	Kit Head Spacers	F260096
100	Electric Motion	280014181	Kit Body Cylinder spacers	F260094
100	Artic Leopard	280014261	Kit Body Cylinder spacers	F260096
100	Sur Ron	280014301	Kit Body Cylinder spacers	F260130
100	AM - (SU)	280014903	Kit Body Cylinder spacers	F260130
100	AM - (AL)	280014904	Kit Body Cylinder spacers	F260096
102	Talaria	280014292	KIT Head Hardwares	F260156
102	Sur Ron	280014302	KIT Head Hardwares	F260156

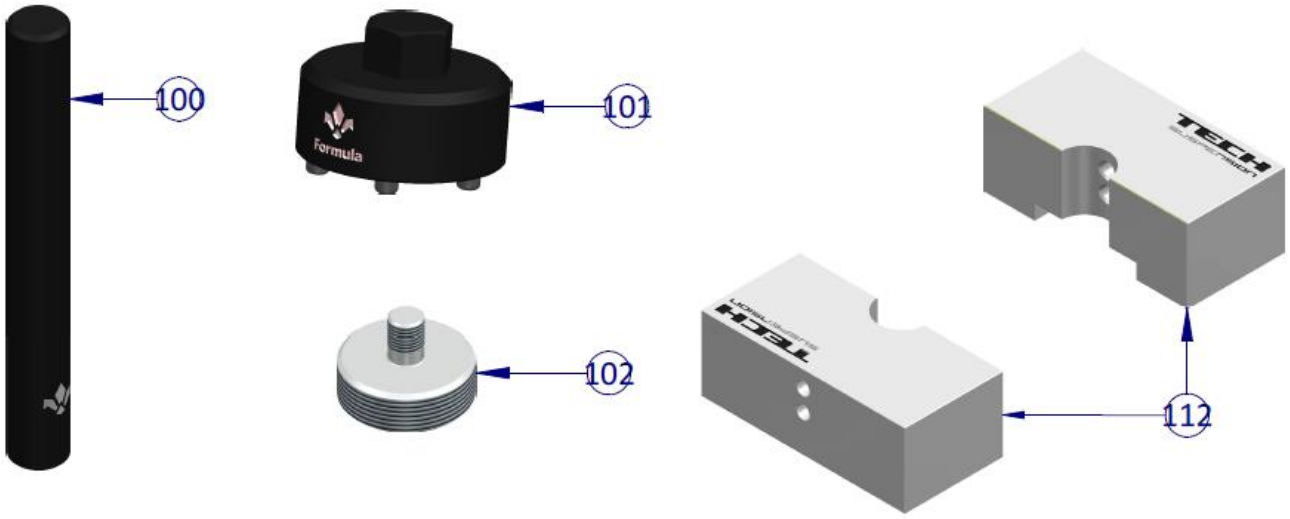
102	AM - (TA)	280014900	KIT Head Hardwares	F260156
102	AM - (TA)	280014901	KIT Head Hardwares	F260156
102	AM - (SU)	280014902	KIT Head Hardwares	F260156
103	Talaria	280014292	KIT Body Cylinder Hardwares	F260157
103	Sur Ron	280014302	KIT Body Cylinder Hardwares	F260157
103	AM - (TA)	280014900	KIT Body Cylinder Hardwares	F260157
103	AM - (TA)	280014901	KIT Body Cylinder Hardwares	F260157
103	AM - (SU)	280014902	KIT Body Cylinder Hardwares	F260157
	Electric Motion	280014181	KIT 100h for Shock with Bladder	F260153
	Artic Leopard	280014261	KIT 100h for Shock with IFP	F260154
	Talaria	280014292	KIT 100h for Shock with IFP	F260155
	Sur Ron	280014301	KIT 100h for Shock with IFP	F260154
	Sur Ron	280014302	KIT 100h for Shock with IFP	F260155
	AM - (TA)	280014900	KIT 100h for Shock with IFP	F260155
	AM - (TA)	280014901	KIT 100h for Shock with IFP	F260155
	AM - (SU)	280014902	KIT 100h for Shock with IFP	F260155
	AM - (SU)	280014903	KIT 100h for Shock with IFP	F260154
	AM - (AL)	280014904	KIT 100h for Shock with IFP	F260154

Exploded View



Required Tools

Description	Position	Q.ty	Part Number
BLADDER ASSEMBLY TOOL	100	1	AM-U003-05
PIGGYBACK ASSEMBLY TOOL	101	1	AM40079-00
IFP SYSTEM ASSEMBLY TOOL	102	1	080064000
STEM VISE TOOL	112	1	F260090



- Hex keys:
  - 2, 2,5 mm, 3 mm, 4 mm, 6 mm.
- Combined wrench:
  - 19 mm, 30 mm.
- Torque wrench from 4 to 35 Nm;
- Valve stem removal tool with tightening torque of 0,5 Nm.
- Formula grease;
- Bench vise.

IFP Position Sheet

Shock Code	IFP Position - X (0/+2) [mm]
280014261	40
280014262	40
280014291	13
280014292	40
280014301	40

End Stroke Bumper Replacement

Required items:

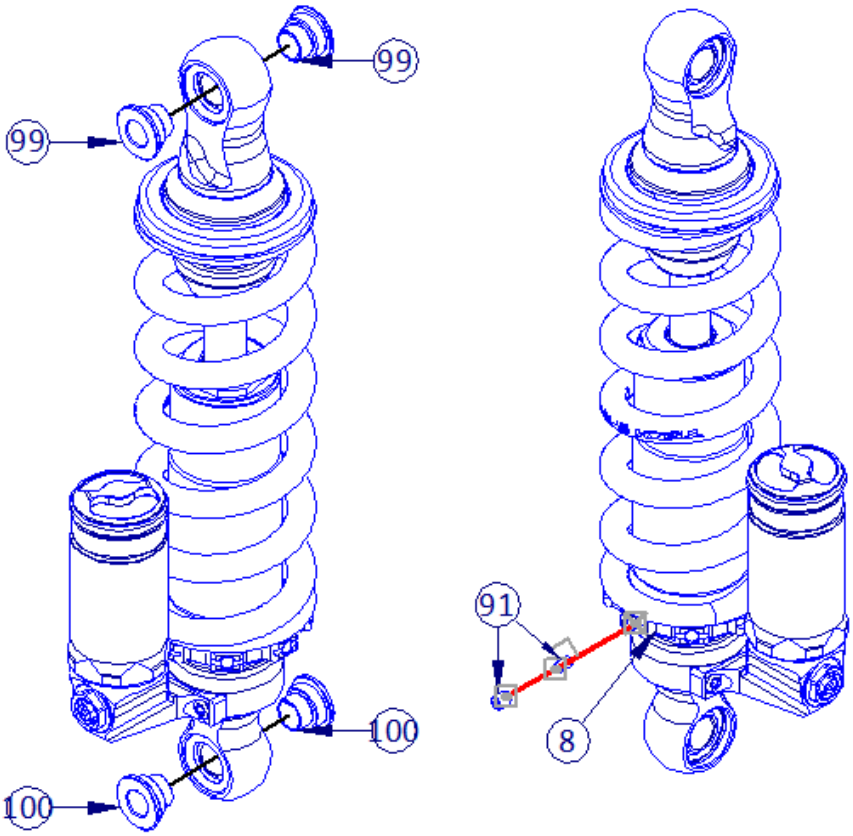
Position	Customer	Fork Code	Description	Part number
13	ALL	ALL	End Stroke Bumper	065015000

Required tools:

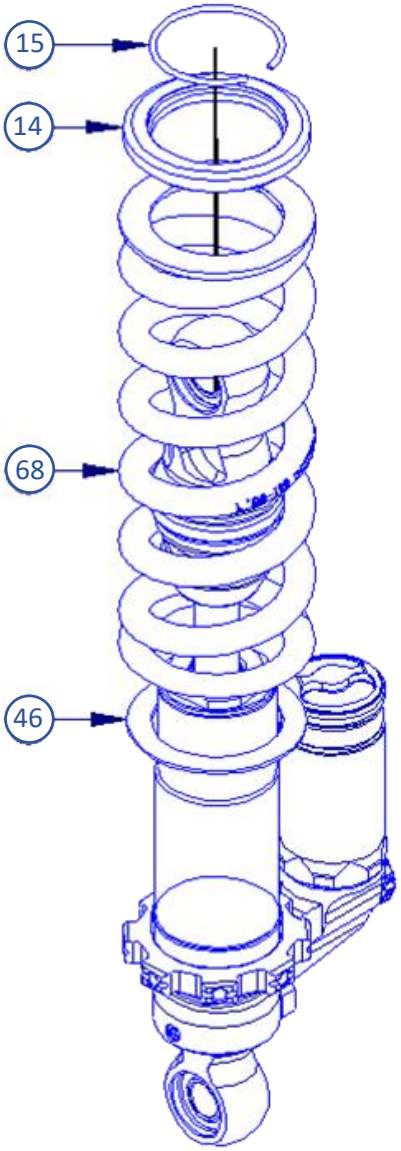
Bench vise, Formula Grease, Hex key 2, Combined wrench 19 mm.

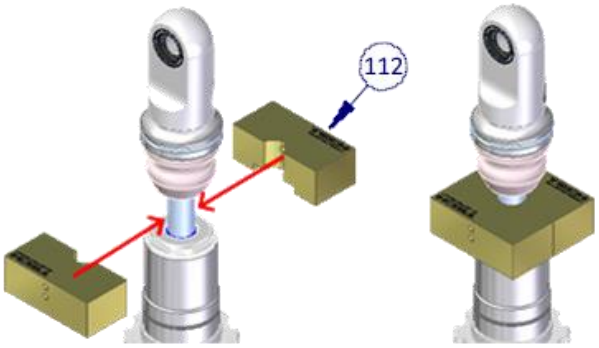
Procedure:

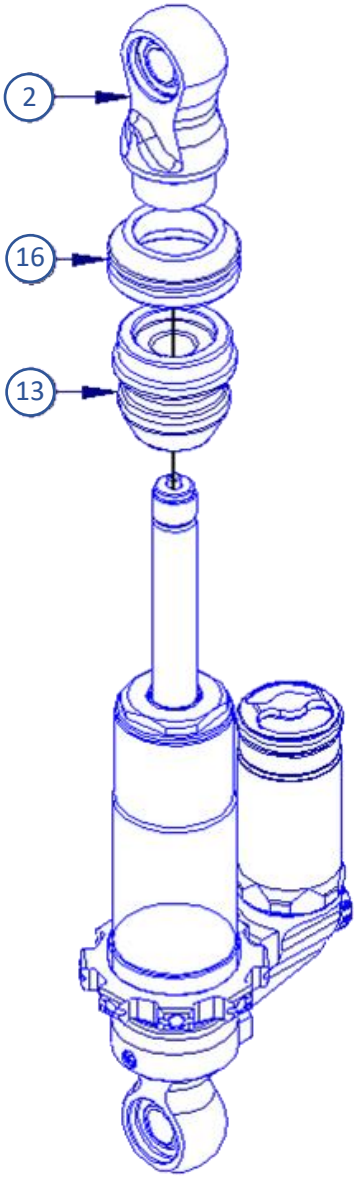
1. Remove the spacers and o-rings from the uniball (99, 100). Check the state of spacers and o-rings before proceeding. Place the shock absorber in a bench vise with plastic jaws to prevent damage. Measure and track the preload spring;
2. Unscrew the preload ring grub screws (91) with a 2 mm hex key and unscrew the spring regulation ring (8) to remove the preload on the spring;



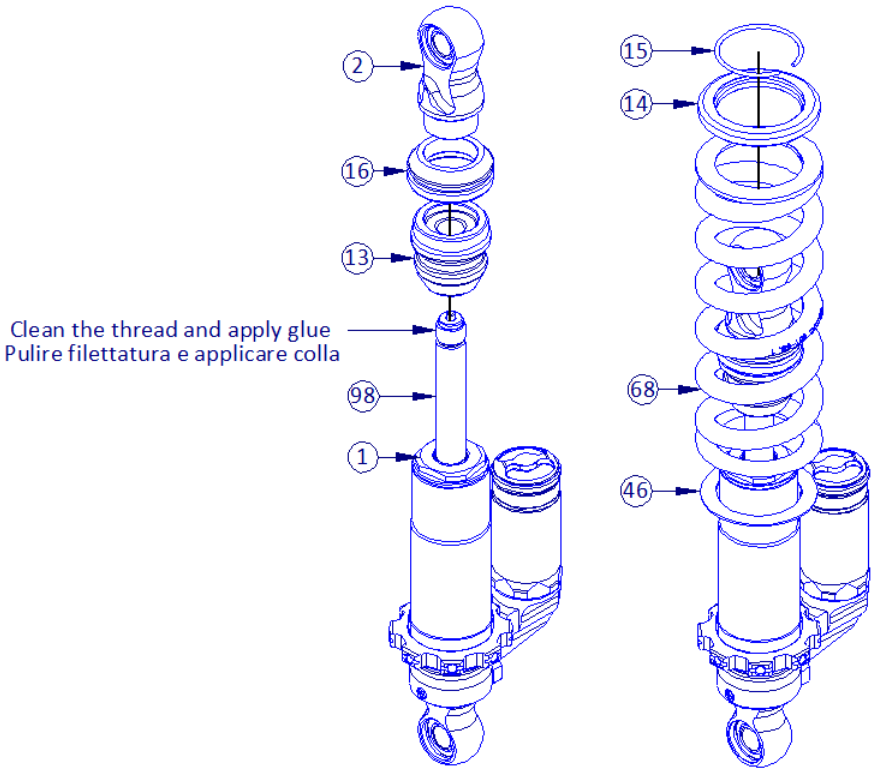
3. Remove the seeger ring (15) and remove from the shock the support disk ring (14), spring (68) and spring spacer (46). Clean the shock absorber with isopropyl alcohol and ensure there are no oil leaks or damage. Get in touch with customer support if there are anomalies;
4. Tighten the shock absorber's stem on a bench vise with tool 112. Push down from the rebound head (2) the bumper support (16) and the end stroke bumper (13) and push them towards the shock absorber cap;
5. Heat the shock absorber's rebound head (2) for 60 seconds to ease the Loctite on the thread;
6. Unscrew the rebound head (2) with a Knipex wrench, then remove the bumper support (16) and bumper (13);
7. Clean off the Loctite from the threads of the stem (98) and the rebound head (2), ensure there are no damages;



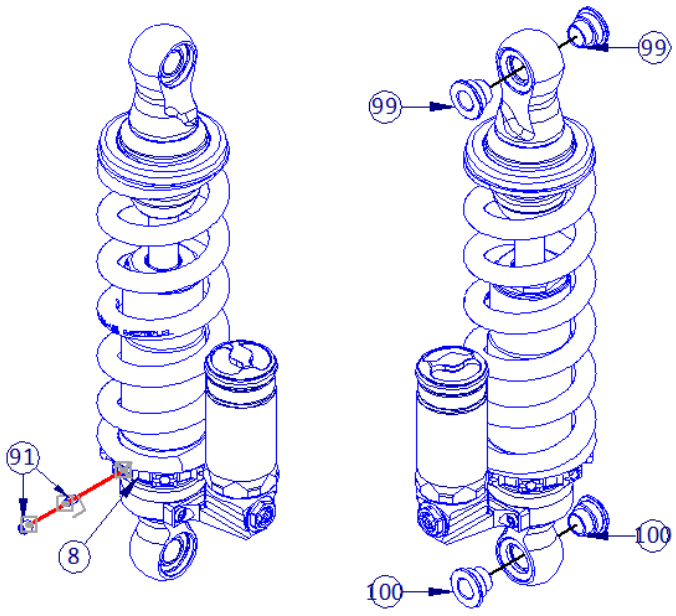




8. Insert the bumper (13) and the bumper support (16) on the stem and put them in contact with the cap (1);
9. Apply Loctite 270 on the stem's thread (98) and screw the head (2) with a Knipex wrench. Remove eventual Loctite residues;
10. Couple together the bumper support (16) and the bumper (13) on the rebound head (2);
11. Assemble in the same order of disassembly the spring spacer (46), spring (68), support disk rink (14) and seeger ring (15);



12. Set the spring preload with the measure recorded in step n°1. Screw the preload ring grub screws with a 2 mm hex key;
13. Install the spacers and o-rings on the uniball (99, 100).



-End of Procedure-

Group Cap Replacement

Required tools:

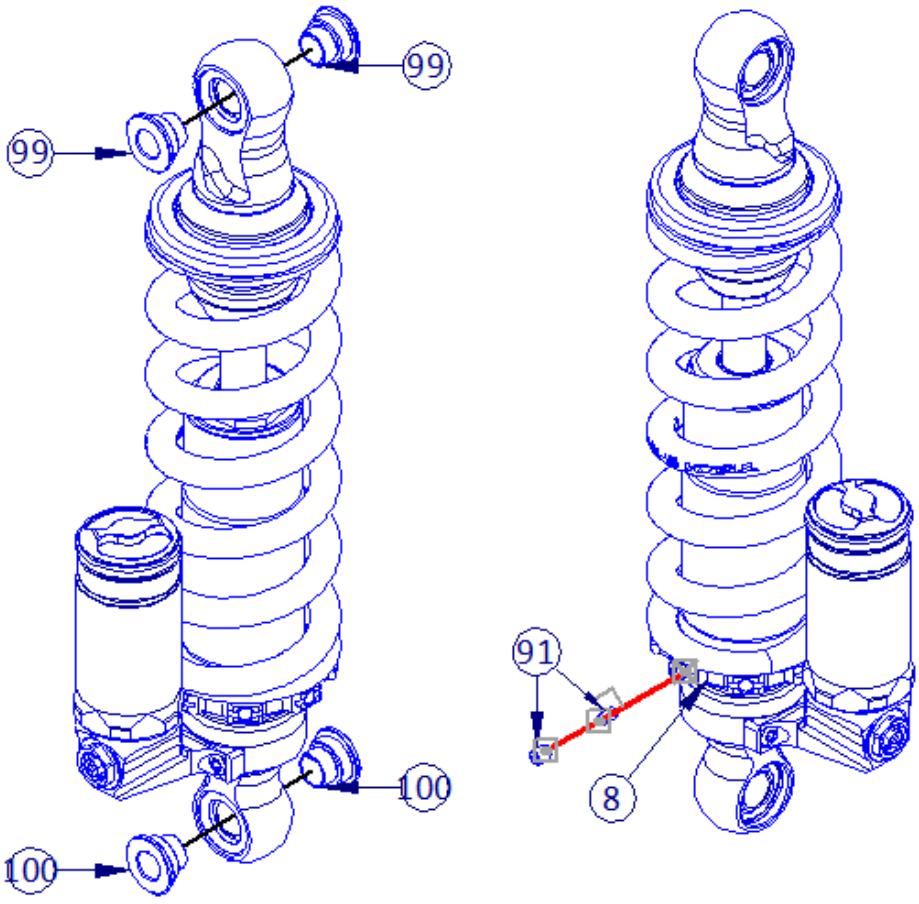
Position	Customer	Fork Code	Description	Part number
1	ALL	ALL	Kit Cap	F260063
85	ALL	ALL	Kit Oil Seals Cap	F260069

Required tools:

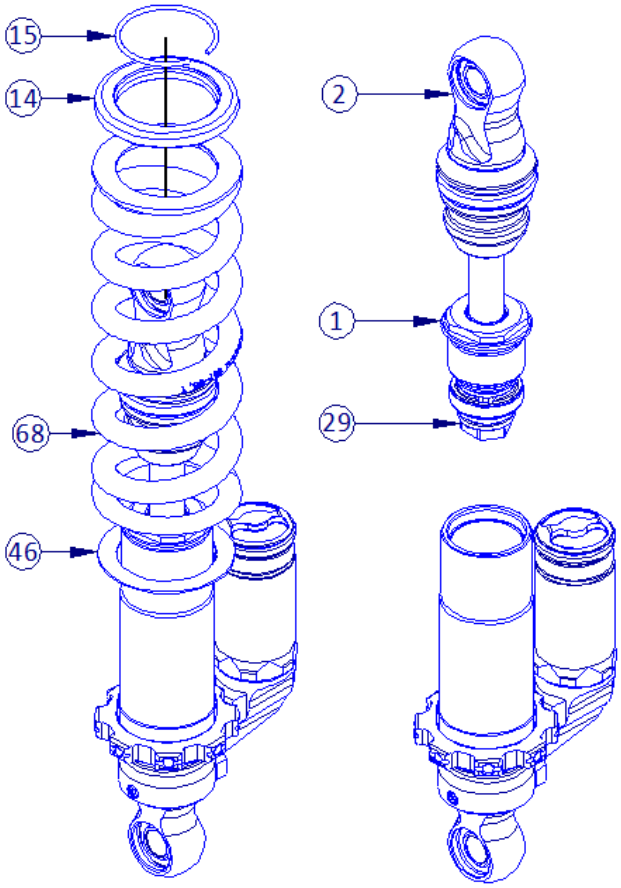
Bench vise, Formula Grease, Hex key 2 mm, Combined wrench 6 mm, 19 mm and 30 mm

Procedure:

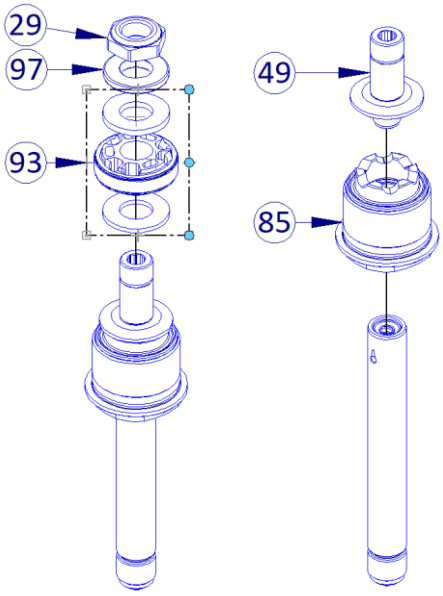
1. Remove the spacers and o-rings from the uniball (99, 100). Check the state of spacers and o-rings before proceeding. Place the shock absorber in a bench vise with plastic jaws to prevent damage. Measure and track the preload spring;
2. Unscrew the preload ring grub screws (91) with a 2 mm hex key and unscrew the spring regulation ring (8) to remove the preload on the spring;



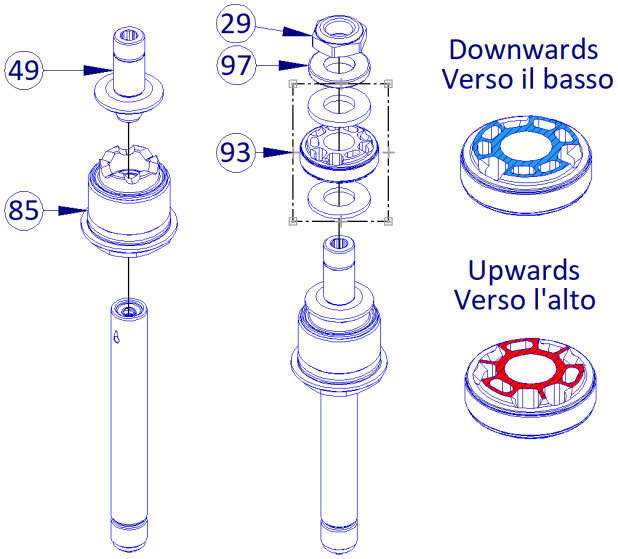
3. Remove the seeger ring (15) and remove from the shock the support disk ring (14), spring (68) and spring spacer (46). Clean the shock absorber with isopropyl alcohol and ensure there are no oil leaks or damage. Get in touch with customer support if there are anomalies;
4. ⚠ Completely depressurize the reservoir;
5. Heat the shock absorber's cap (1) for 60 seconds to ease the Loctite on the thread and unscrew the kit cap with a Knipex wrench and remove the stem group from the shock's body cylinder. Tighten the shock absorber's head on a bench vise with tool 112 with the nut (29) facing upwards;



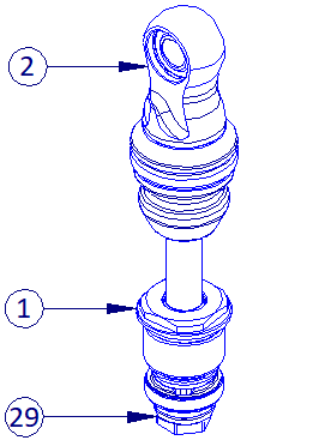
6. Unscrew the nut (29) with a 19 mm wrench and remove the spacer (97) and the kit piston with shims (93). Unscrew with a 6 mm hex key the piston screw (49). <u>Pay attention to the disassembly sequence and the orientation of the components</u>. Remove the kit cap (85) and replace it;

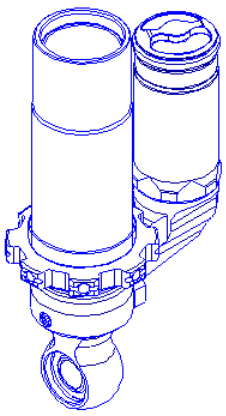


7. Clean the stem (98) with isopropyl alcohol and ensure there are no damages;
8. Carefully insert the new cap kit (85) and ensure there's no damage to the cap's seals when sliding through the stem's threads and holes. Apply Loctite 243 on the piston screw (49) and screw it on the stem with a 6 mm hex key and 18 Nm of tightening torque;
9. Insert the kit piston with shims (93), in the same order and orientation seen during disassembly in step n°9. Ensure the piston is assembled as shown: the blue face downwards, the red face upwards. Then insert the spacer (97) and screw the nut (29) with a 19 mm hex key and 24 Nm of tightening torque;

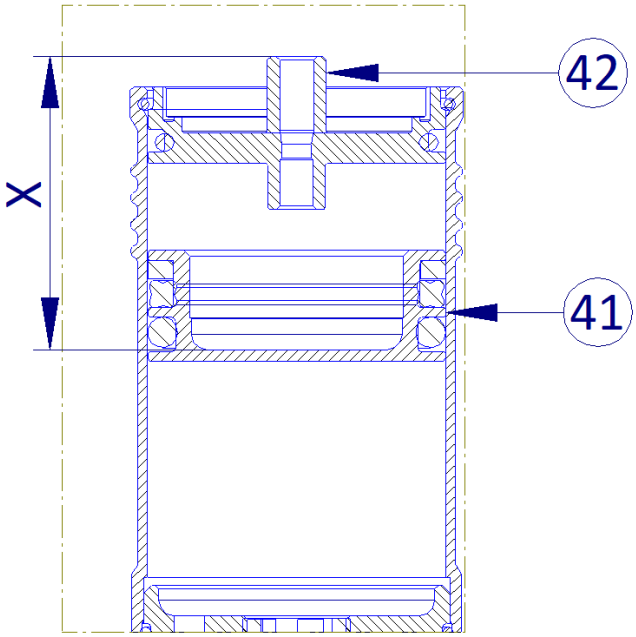


10. Apply grease on the piston's outer diameter and on the cap's o-ring. Insert the stem group with head inside the body shock and screw it with a 30 mm hex key and 28 Nm of tightening torque;

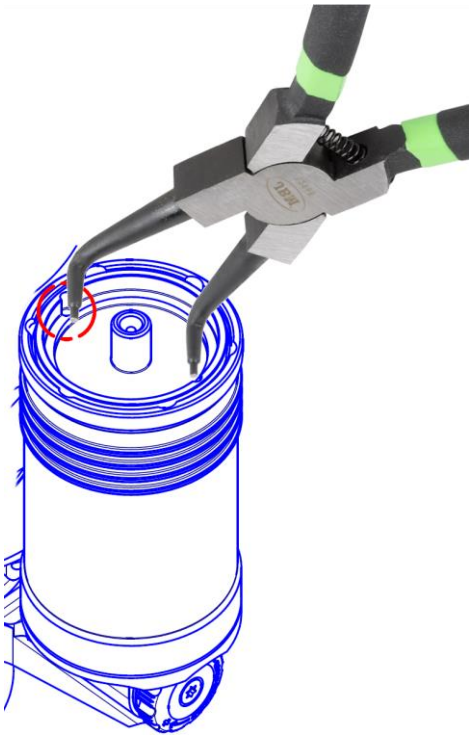




11. Bleed the shock absorber twice through the bleeding valve (44), unscrew it with a 2 mm hex key. Once the shock absorber is bled, put it on ambient pressure;
12. With a caliper, position the IFP to the required depth by measuring from the valve hole to the IFP piston. The “X” value can be found in the dedicated paragraph depending on the shock code;

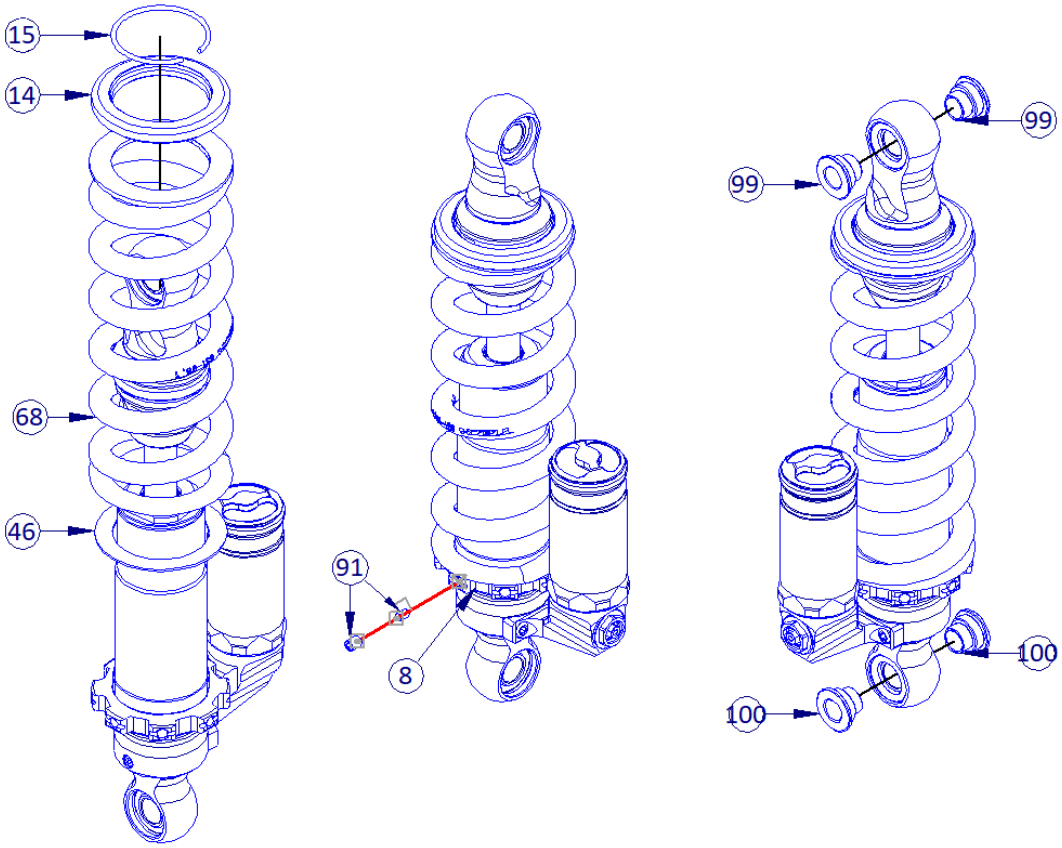


13. Once the IFP has been correctly positioned, block the cap (42) with a seeger clamp and screw the valve (44) on the cap (42) with a valve tool and a tightening torque of 0,4 ÷ 0,6 Nm. Close the bleeding valve;



14. Pressurise the shock absorber at 150 PSI/10 BAR and screw the valve cap (45);

15. Assemble in the same order of disassembly the spring spacer (46), spring (68) support disk ring (14) and the seeger ring (15);
16. Set the spring preload with the measure recorded in step n°1. Screw the preload ring grub screws with a 2 mm hex key;
17. Install the spacers and o-rings on the uniball (99, 100).



-End of Procedure-

Stem group replacement

Required tools:

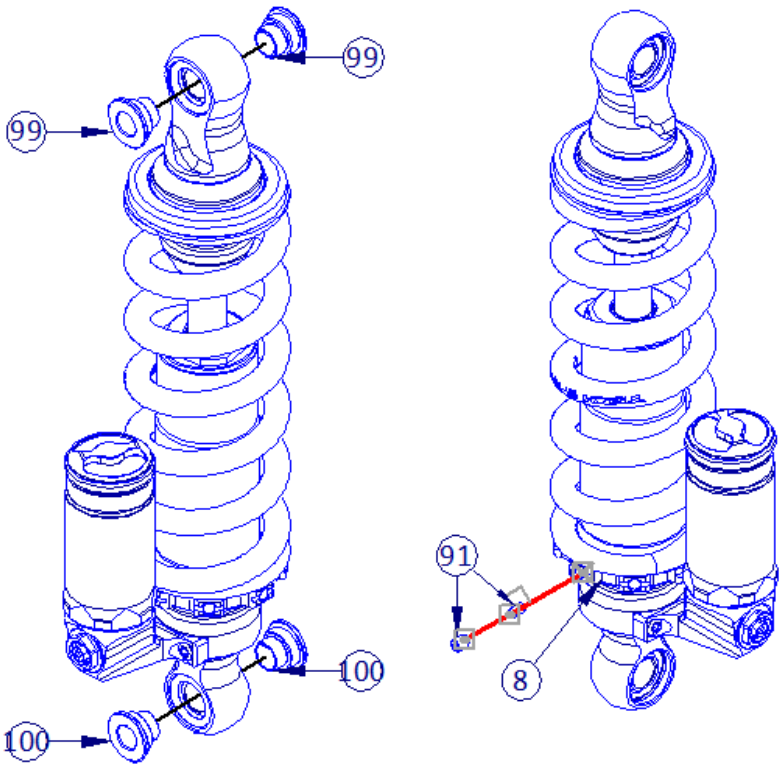
Position	Customer	Fork Code	Description	Part number
98	Electric Motion	280014181	Kit Complete Stem	F260151
98	Artic Leopard	280014261	Kit Complete Stem	F260152
98	Talaria	280014292	Kit Complete Stem	F260152
98	Sur Ron	280014301	Kit Complete Stem	F260152
98	Sur Ron	280014302	Kit Complete Stem	F260152
98	AM - (TA)	280014900	Kit Complete Stem	F260152
98	AM - (TA)	280014901	Kit Complete Stem	F260152
98	AM - (SU)	280014902	Kit Complete Stem	F260152
98	AM - (SU)	280014903	Kit Complete Stem	F260152
98	AM - (AL)	280014904	Kit Complete Stem	F260152

Required tools:

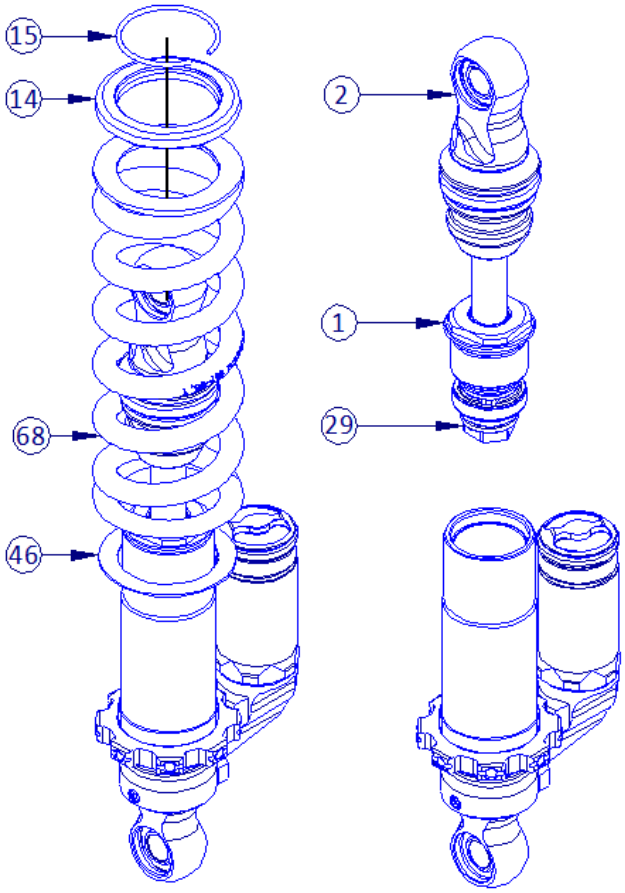
Bench vise, Formula Grease, Hex key 2 mm, 4mm and 6 mm, Combined wrench 19 mm and 30 mm

Procedure:

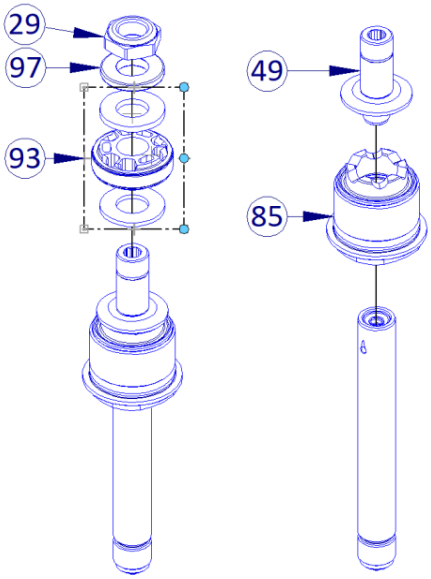
1. Remove the spacers and o-rings from the uniball (99, 100). Check the state of spacers and o-rings before proceeding. Place the shock absorber in a bench vise with plastic jaws to prevent damage. Measure and track the preload spring;
2. Unscrew the preload ring grub screws (91) with a 2 mm hex key and unscrew the spring regulation ring (8) to remove the preload on the spring;



3. Remove the seeger ring (15) and remove from the shock the support disk ring (14), spring (68) and spring spacer (46). Clean the shock absorber with isopropyl alcohol and ensure there are no oil leaks or damage. Get in touch with customer support if there are anomalies;
4. ⚠ Completely depressurize the reservoir;
5. Heat the shock absorber's cap (1) for 60 seconds to ease the Loctite on the thread and unscrew the kit cap with a Knipex wrench and remove the stem group from the shock's body cylinder. Tighten the shock absorber's head on a bench vise with the tool 112 with the nut (29) facing upwards;



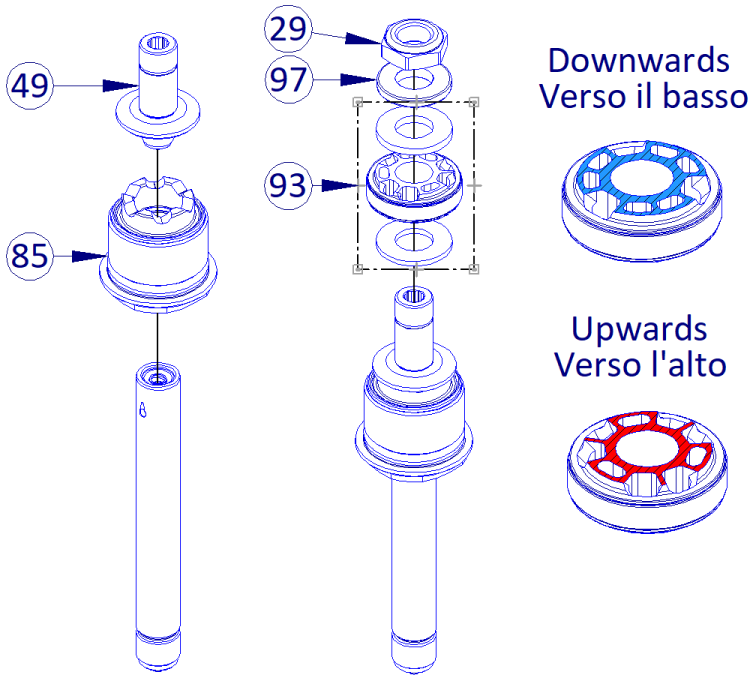
6. Unscrew the nut (29) with a 19 mm wrench and remove the spacer (97) and the kit piston with shims (93). Unscrew with a 6 mm hex key the piston screw (49). Pay attention to the disassembly sequence and the orientation of the components. Remove the kit cap (85) and replace it;



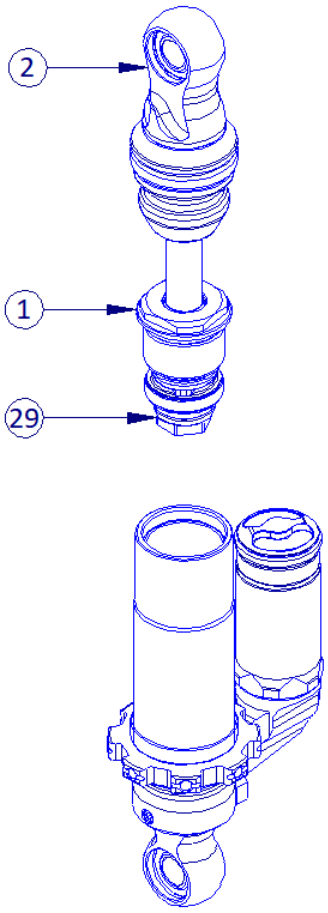
7. Remove from the shock head (2) the bumper support (16) and the bumper (13). Heat the shock absorber's rebound head (2) for 60 seconds to ease the Loctite on the thread and unscrew the rebound head (2) with a Knipex wrench. Clean the Loctite off from the threads of the stem (98) and head (2) and ensure there are no damages;

8. Replace the stem group (98). Apply Loctite on the stem's thread (98) and screw the head (2) with a Knipex wrench. Remove eventual Loctite residues;

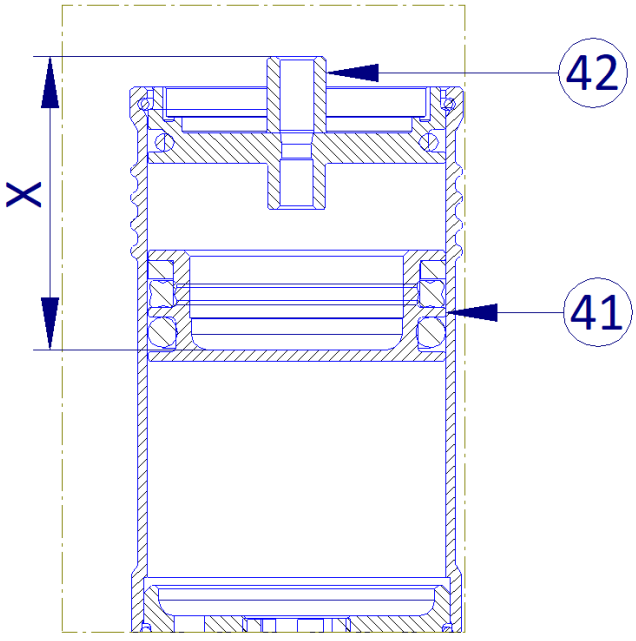
9. Carefully insert the cap kit (85) and ensure there's no damage to the cap's seals when sliding through the stem's threads and holes. Apply Loctite 243 on the piston screw (49) and screw it on the stem with a 6 mm hex key and 18 Nm of tightening torque;
10. Insert the kit piston with shims (93), in the same order and orientation seen during disassembly in step n°9. Ensure the piston is assembled as shown: the blue face downwards, the red face upwards. Then insert the spacer (97) and screw the nut (29) with a 19 mm hex key and 24 Nm of tightening torque;



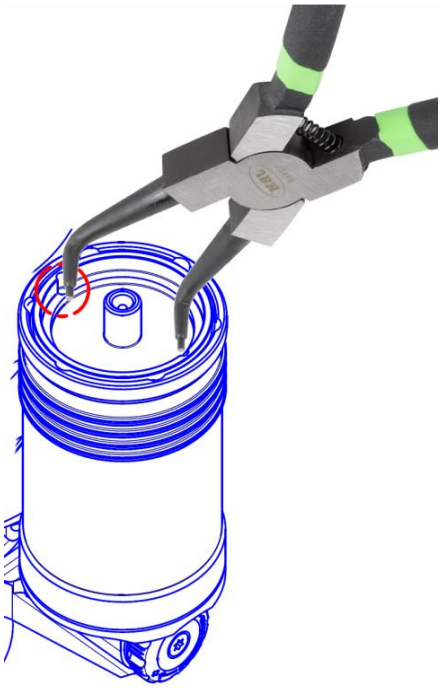
18. Apply grease on the piston's outer diameter and on the cap's o-ring. Insert the stem group with head inside the body shock and screw it with a knipex wrench and 28 Nm of tightening torque;
19. Bleed the shock absorber twice through the bleeding valve (44), unscrew it with a 2 mm hex key. Once the shock absorber is bled, put it on ambient pressure;



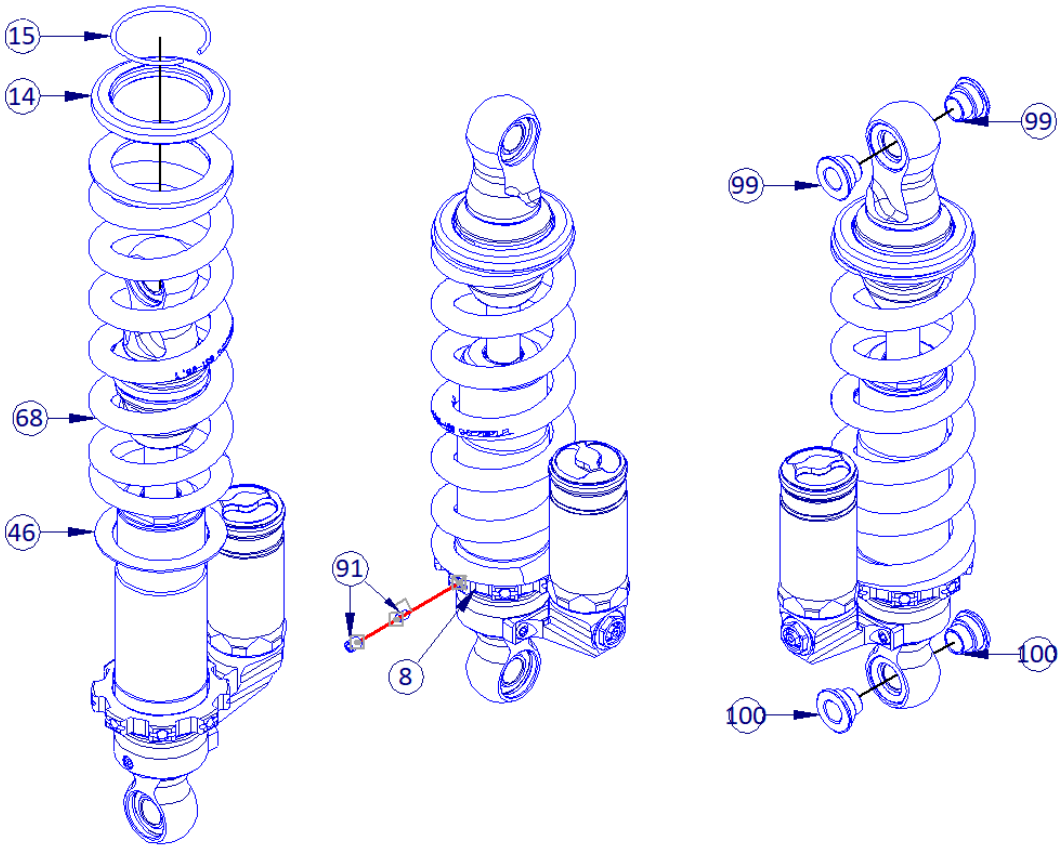
20. With a caliper, position the IFP to the required depth by measuring from the valve hole to the IFP piston. The "X" value can be found in the dedicated paragraph depending on the shock code;



21. Once the IFP has been correctly positioned, block the cap (42) with a seeger clamp and screw the valve (44) on the cap (42) with a valve tool and a tightening torque of 0,4 ÷ 0,6 Nm. Close the bleeding valve;



22. Pressurise the shock absorber at 150 PSI/10 BAR and screw the valve cap (45);
23. Assemble in the same order of disassembly the spring spacer (46), spring (68) support disk ring (14) and the seeger ring (15);
24. Set the spring preload with the measure recorded in step n°1. Screw the preload ring grub screws with a 2 mm hex key;
25. Install the spacers and o-rings on the uniball (99, 100).



-End of Procedure-

Bladder and reservoir replacement

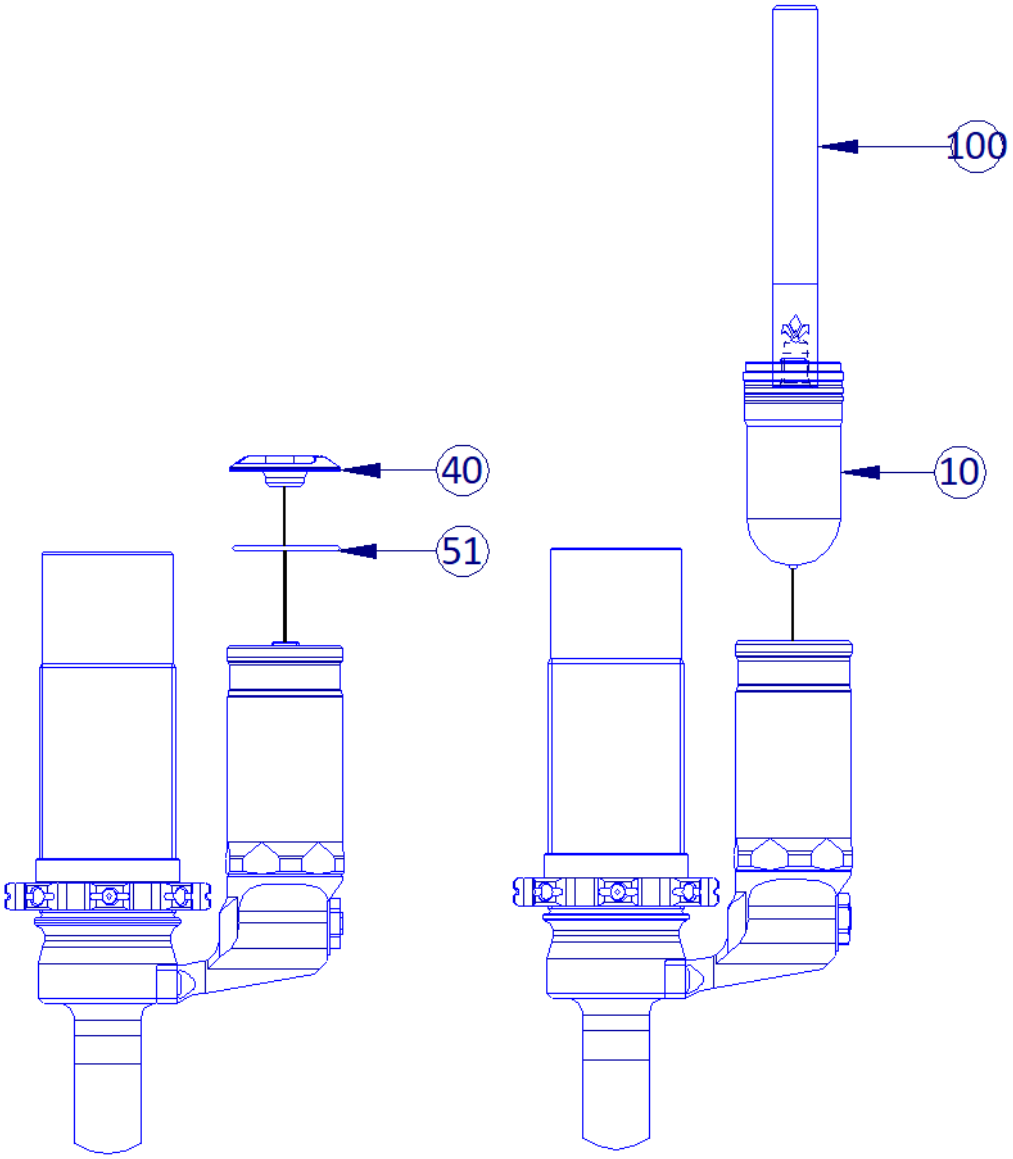
Required tools:

Bench vise, Formula grease, Hex key 2 mm, Combined wrench 30 mm, Valve tool.

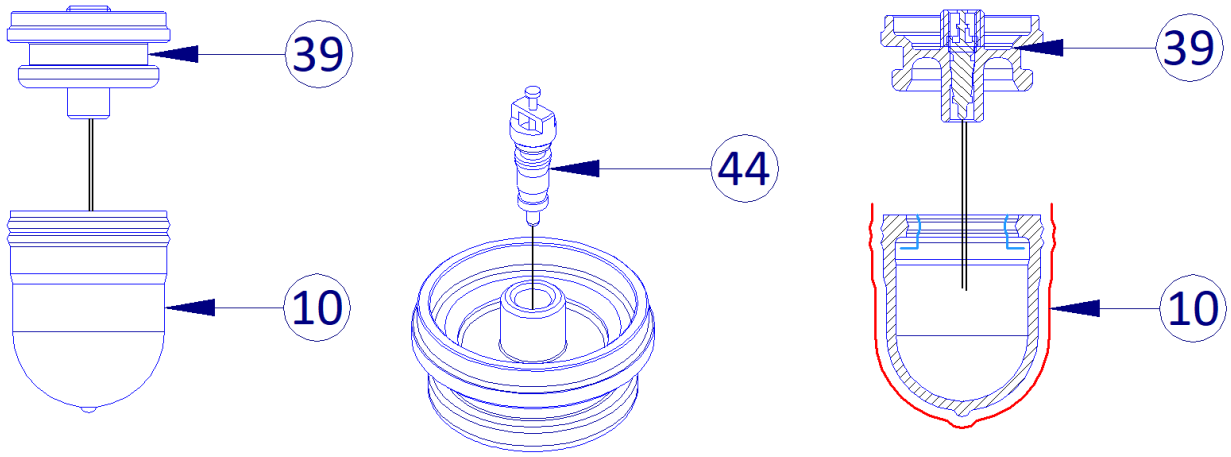
Procedure:

To replace the bladder and the reservoir it's not necessary to disassemble the stem

1. ⚠ Completely depressurize the reservoir;
2. Place the shock absorber body (7) in a bench vise with plastic jaws to prevent damage. Manually unscrew the piggyback's cap (40). Screw the tool (100) on the cap's screw (30) and push downwards the bladder group (10) to remove the seeger ring (51). Pull out from the reservoir the bladder (10). Uscrew the tool (100);

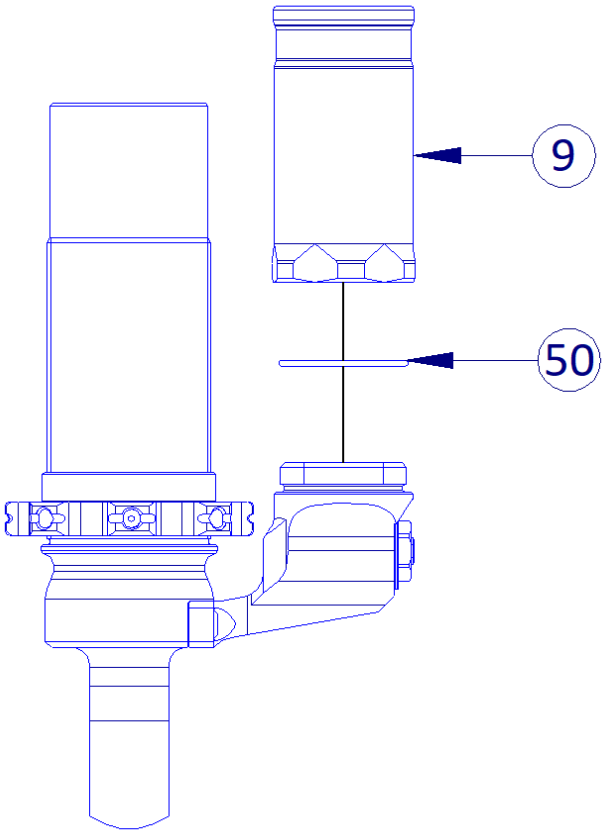


3. Remove the cap (39) from the bladder (10). With a valve tool, unscrew the valve (44) and replace it with a new one by screwing it with a 0,4/0,6 Nm tightening torque. Ensure the valve is positioned as shown and doesn't come out of the bladder's cap. Replace the bladder (10) and apply Formula grease on the outer areas (highlighted in red) and the inner areas (highlighted in blue). Insert the cap (39) inside the bladder (10);
4. Remove the cap (39) from the bladder (10). With a valve removal tool, unscrew the valve (44) and replace it with a new one with a tightening torque of 0,4/0,6 Nm.

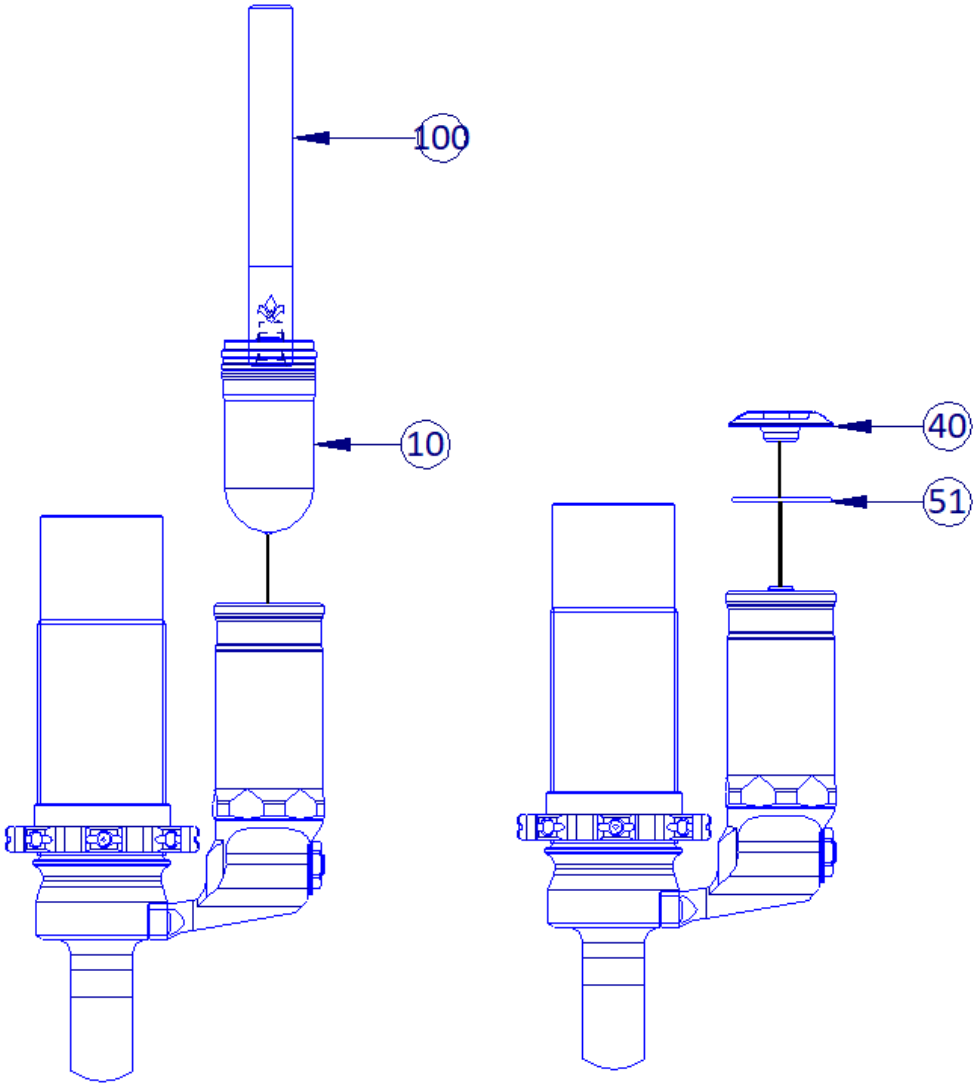


Follow the next steps if the reservoir needs to be replaced.
If only the bladder needs to be replaced, go to step n° 5.

5. Unscrew the reservoir (piggyback) (9) with a knipex wrench and replace the o-ring (50). Insert the new o-ring (50) with Formula grease. Apply Loctite 243 on the reservoir thread and tighten the reservoir (9) with a knipex wrench;



6. Screw the tool (100) on the cap's thread (39) and insert the bladder (10) inside the reservoir by pushing it inside with the tool. Then insert the seeger ring (51) and pull upwards the bladder group (10) so that it touches the seeger ring (51). Unscrew the tool (100) and manually screw the cap (40);



7. Bleed the shock absorber twice through the bleeding valve (44), unscrew it with a 2 mm hex key. Once the shock absorber is bled, put it on ambient pressure;
8. Pressurize the shock absorber at 150 PSI/10 BAR and screw the valve cap (40);

-End of Procedure-

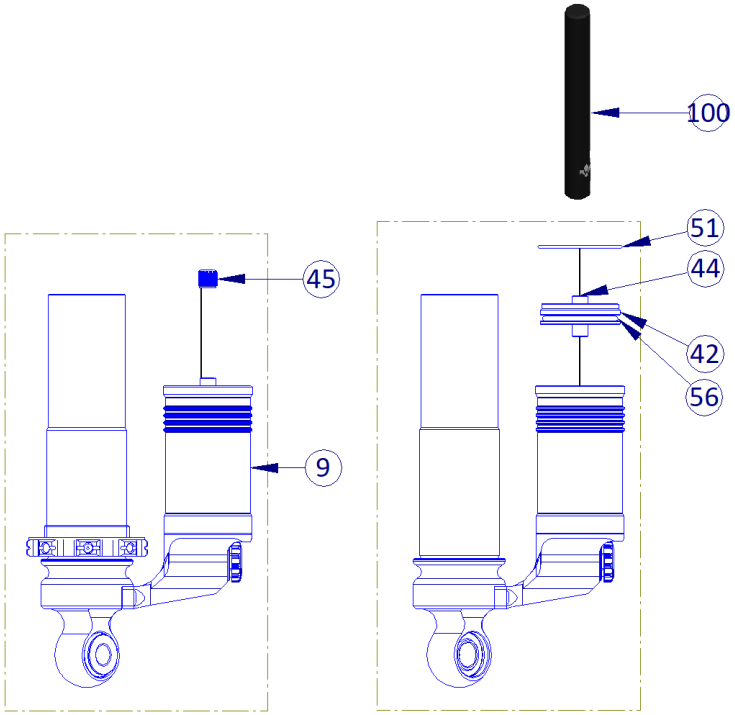
IFP System Replacement (Floating Piston)

Required tools:

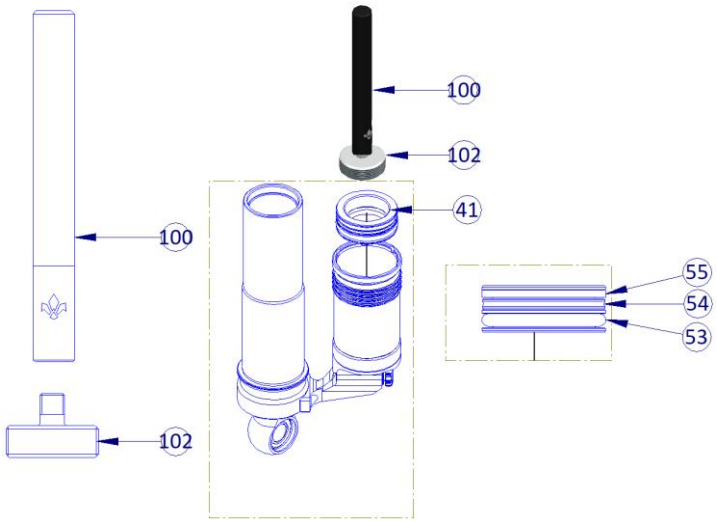
Bench vise, Formula grease, Hex key 2 mm, combined wrench 30 mm, Valve tool.

Procedure:

1. Unscrew the reservoir's cap (45);
2. ⚠ Completely depressurize the reservoir;
3. Place the shock absorber body (7) in a bench vise with plastic jaws to prevent damage. Screw the tool (100) on the cap's thread (42) and push it downwards to remove the seeger ring (51). Remove the cap (42) by pulling it upwards and unscrew the tool (100). Replace the o-ring (56) and unscrew the valve (44) with the valve tool and do not reassemble it until it is requested in the manual;

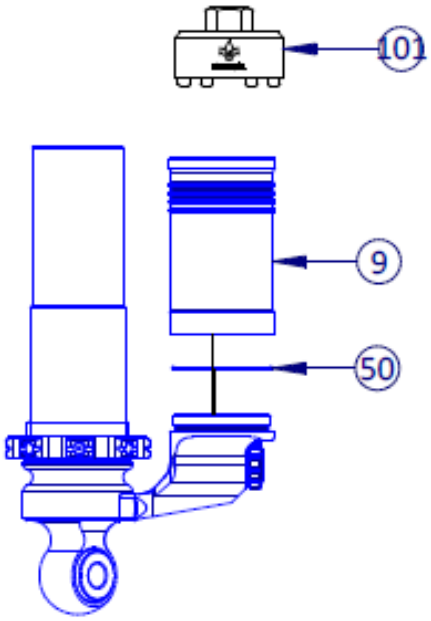


4. Screw together tools (100 and 102), then screw them on the IFP system (41) and pull it out of the reservoir (9). Replace all the internal components (53, 54, 55);

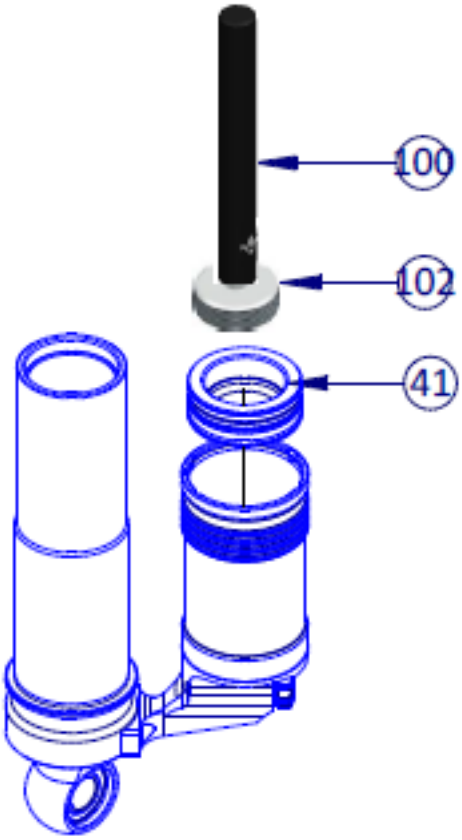


Follow the next steps if the reservoir needs to be replaced.
If only the IFP needs to be replaced, go to step n° 6.

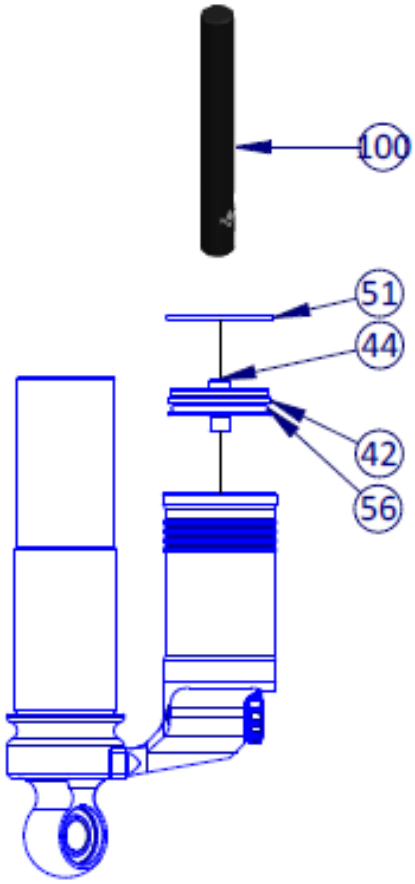
5. Unscrew the reservoir (piggyback) (30) with tool (101) and replace the o-ring (50). Insert the new o-ring (50) with Formula grease applied on it. Apply Loctite 420 on the body shock thread and tighten the reservoir with 10 Nm tightening torque;



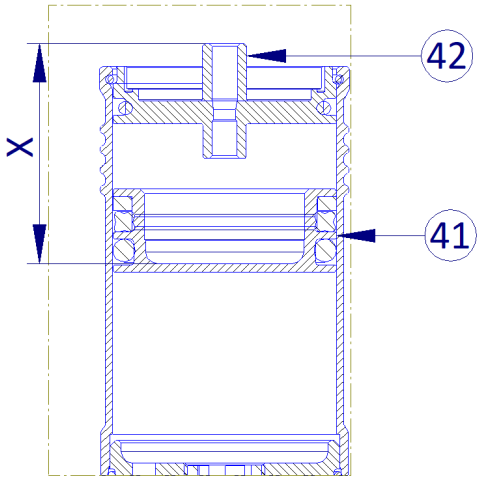
6. Screw tool (102) on the IFP thread (41) and insert it inside the reservoir while being careful not to damage the seals. Unscrew the tool;



7. Screw the tool (100) on the reservoir cap (42) and insert it inside the reservoir. Then insert the seeger ring (51), push upwards the cap (42) so that it touches the seeger ring (51). Unscrew the tool (100);



8. Bleed the shock absorber twice through the bleeding valve, unscrew it with a 2 mm hex key. Once the shock absorber is bled, put it on ambient pressure;
9. With a caliper, position the IFP to the required depth by measuring from the valve hole to the IFP piston. The “X” value can be found in the dedicated paragraph depending on the shock code;



10. Once the IFP has been correctly positioned, block the cap (42) with a seeger clamp and screw the valve (44) on the cap (42) with a valve tool and a tightening torque of 0,4 ÷ 0,6 Nm. Close the bleeding valve;
11. Pressurise the shock absorber at 150 PSI/10 BAR and screw the valve cap (45).

-End of Procedure-

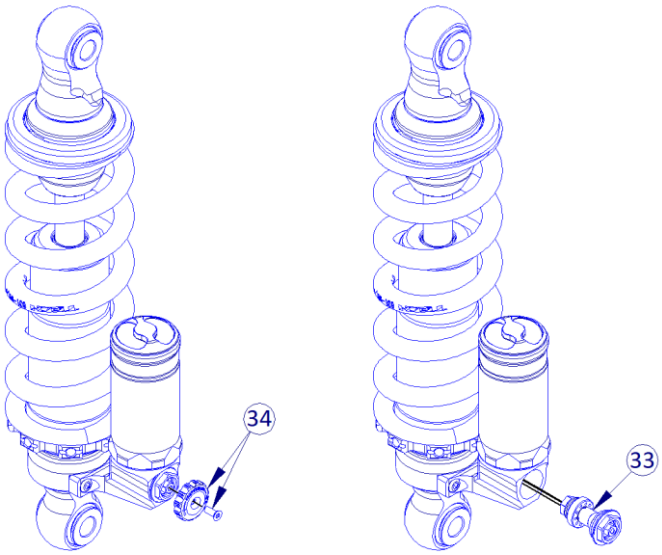
CTS Replacement

Required tools:

Bench Vise, Formula grease, Torx T10, 13 mm Socket Wrench.

Procedure:

1. Unscrew the piggyback cap (40) and press the air valve (44) to remove air from the shock absorber. Screw the piggyback cap (40) before proceeding
2. Keep the CTS facing upwards to avoid oil leaks during the procedure. Remove the CTS screw (34) with a Torx T10 and remove the adjuster (34). Unscrew the CTS (33) from the body with a 13 mm socket wrench;



3. Insert the desired CTS inside the body shock with a 13 mm socket wrench and a tightening torque of 7 Nm. Fix the CTS adjuster (34) with the screw (34) with a Torx T10;
4. Unscrew the piggyback cap (40) and pressurize the piggyback at 150 PSI from the air valve (44) with a Formula air pump and screw the piggyback cap (40).

Figura 1 Tutorial Installazione CTS

-End of Procedure-

Pressure check

Required tools:

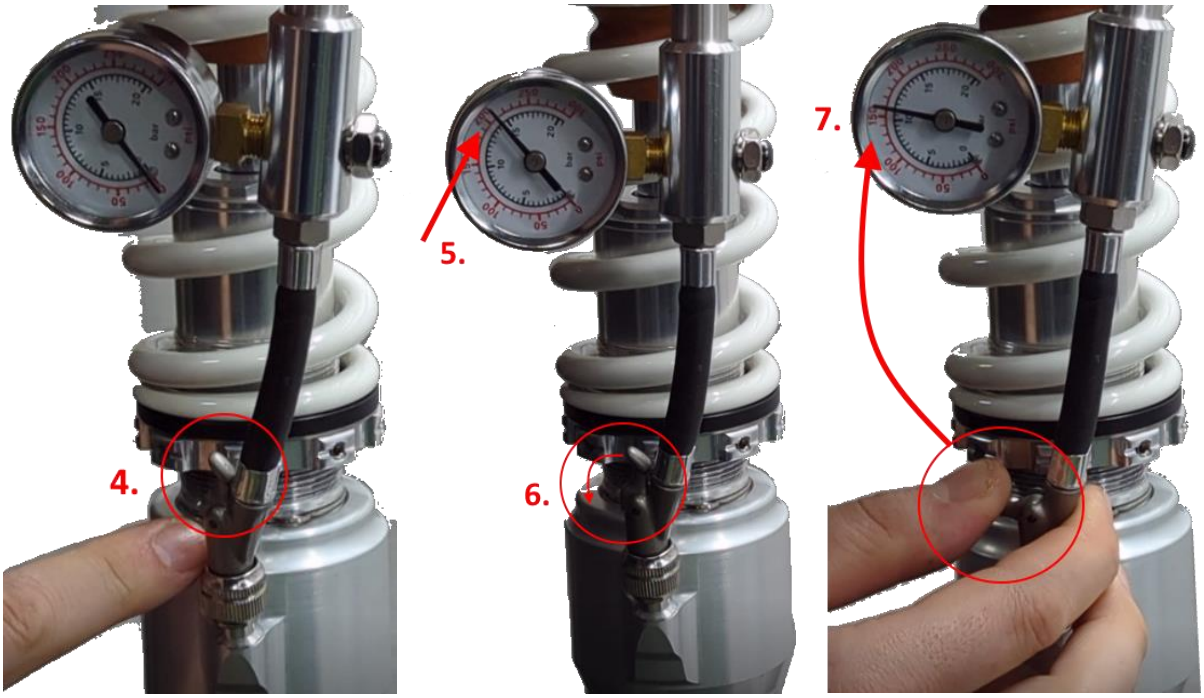
Bench vise, Formula Pump.

Procedure:

You can find the complete tutorial on ⚜ Formula's YouTube channel.

1. Remove the uniball spacers and place the shock absorber in a bench vise
2. ⚠ It's highly recommended to use a ⚜ Formula Pump. Using different tools could cause issues;

3. Unscrew the reservoir cap;
4. Screw the air pump to the reservoir valve without enabling the valve duct;
5. Pressurise the pump at 150 PSI;
6. Enable the valve duct and the pressure in the pump will be normalised with the pressure inside the reservoir;
7. Check the pressure and ensure it's between 10 and 12 bar;



⚠ If the pressure is lower than 10 bars, inflate the shock absorber with nitrogen. Do not use air to inflate the shock absorber as it could affect its performance and correct functioning.

8. If the pressure is correct, close the pump valve duct and remove the pump. Screw the reservoir cap;
9. Remove the shock absorber from the bench vise and reassemble the uniball spacers.

-End of Procedure-

https://www.rideformula.com/it/

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