Z125 Front Fork Upgrade kits

Installation SOP

Revision: 1

Tools

a. Loctite243 or Loctite2701 (Thread Locker)
b. Loctite7649 (Activator)
c. 33mm Hex Socket
d. 17mm Hex Socket
e. Shaft Clamping Tool (12mm)
f. Shaft Clamping Tool (15mm)
g. Aluminum Outer Tube Clamping Tool (39mm)
h. Chrome Inner Tube Clamping Tool (30mm)
i. Torque Wrench Jig Tool (Inner Diameter 12mm)
j. 17mm Allen Key
k. 3mm Allen Key
l. 2mm Allen Key
m. Torque Wrench (250kg-cm)
n. Torque Wrench (700kg-cm)

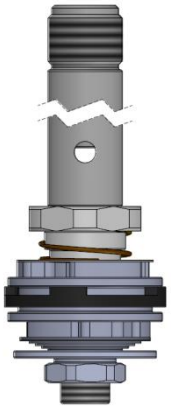
Tools

Revision: 1

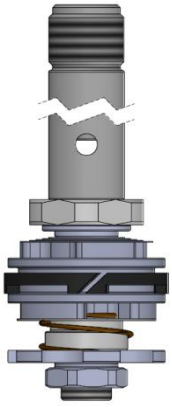
Front Fork Kits Contents Introduction

No.	Description	Qty.
I	Compression Seal Head	1
II	Rebound Seal Head	1
III	Reb. Piston Assembly	1
IV	Comp. Piston Assembly	1
V	Damping Adjust Rod	2
VI	Front Fork Spring	2
VII	C-Clip	2
VIII	Upper Spring Retainer	2
IX	End Spring Retainer	2
X	FPV Spacer	2
XI	Travel Limiter	2
XII	Bumper	6

Front Fork Kits



Rebound Piston Assembly (III)



Compression Piston Assembly (IV)

Revision: 1

Racingbros Seal Head Adjuster

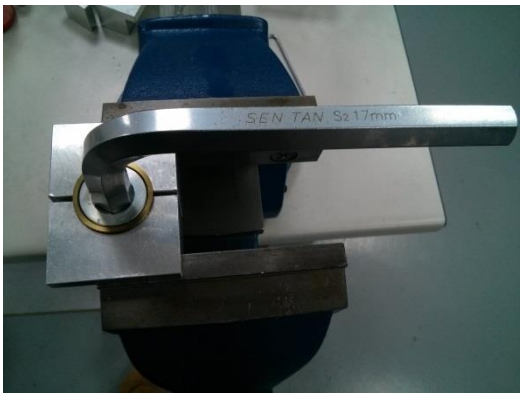
pa: Spring Preload Adjuster (17mm Hex)

ca: Compression Adjuster (3mm Hex)

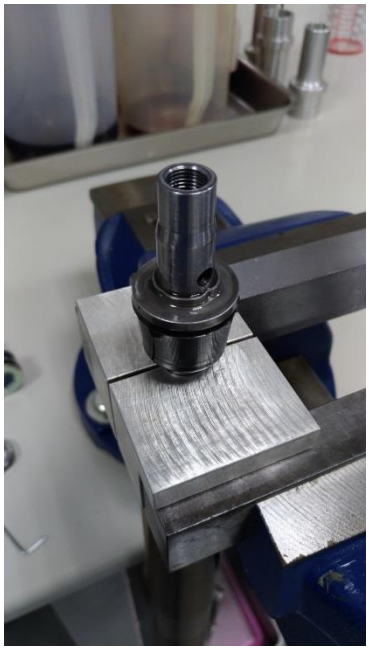
ra: Rebound Adjuster (3mm Hex)

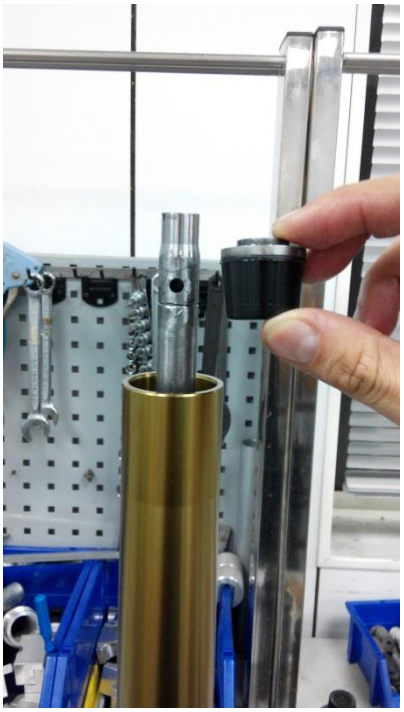
Racingbros Z125 Front Fork Exploded View

1. Racingbros Seal Head	7. Racingbros Piston Assembly
2. Racingbros Bumper	8. Original Chrome Tube
3. Racingbros Limiter Spacer	9. Racingbros Top-Out Spring Assembly
4. Racingbros C-Clip	10. Racingbros Fork Spring
5. Racingbros Adjust Rod	11. Original Outer Tube
6. Racingbros FPV Spacer	12. Original Fork Bottom

Step 1. Clamp the outer tube (11) by 39mm clamping tool (g.), and loosen the original seal head by 17mm Allen key (j.).	Step 2. Clamp the original shaft by the 15mm clamping tool (f).
	

Step 3. Loosen the set screw by 2mm Allen key (l.).	Step 4. Loosen the seal head by 17mm Allen key (j.).
	

Step 5. Remove the ring with a set screw.	Step 6. Open the rivet part with an appropriate tool.
	

Step 7. Push the bumper down, and then remove the c-clip.	Step 8. Remove the bumper.
	

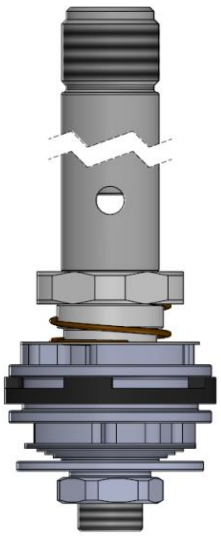
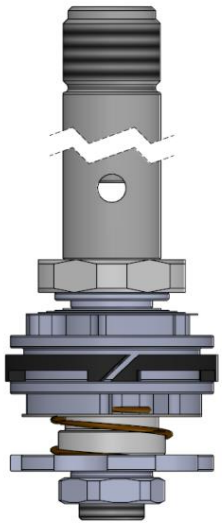
Step 9. Drain the oil from the fork.	Step 10. Loosen the set screw of the fork bottom (12.) by 3mm Allen key (k.).
	

Step 11. Clamp the chrome tube (8.) by 30mm clamping tool (h.), and remove the fork bottom.	Step 12. Remove the spring.
	

Step 13. Remove the shaft and the top-out spring.	Step 14. Basically, these original parts (spring, shaft, seal head, ring with a set screw, c-clip ring and bumper) won't be used again.
	

Step 15. And keep the chrome tube (8.), aluminum tube (11), fork bottom (12.), top-out spring and set screw of the fork bottom.	Step 16. Punch the Racingbros FPV spacer into the top hole of the chrome tube; make sure the direction is the same as the pic shows (The wider diameter is on the top).
	 

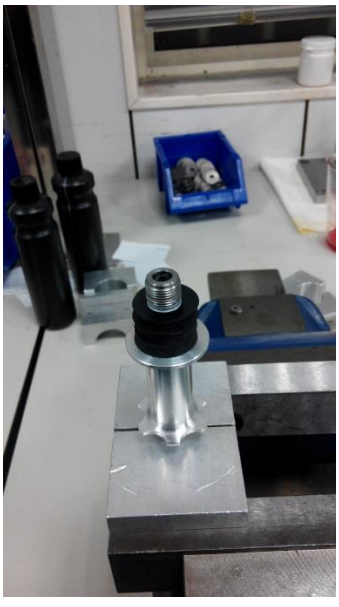
Step 17. Assemble the upper retainer (VIII.), top-out spring and end retainer (IX.) into one part.	Step 18. Drop the top-out spring assembly (9.) into the chrome tube (8.), and make sure the direction is the same as the pic shows.
	

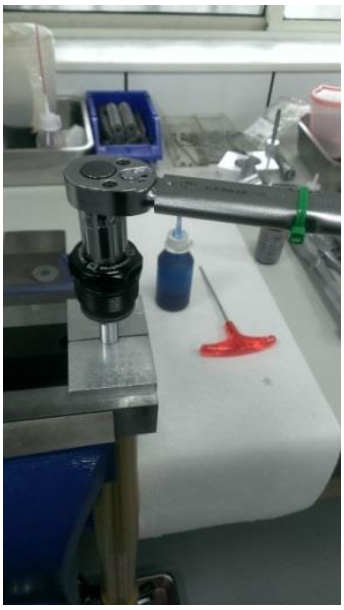
Note: Before dropping the Racingbros piston assembly into the chrome tube, please check that the stepped side of the glide ring is oriented to the spring side of the piston assembly. Please see the pic below.	
	
Rebound Piston Assembly	Compression Piston Assembly

Step 19. Drop the Racingbros piston assembly (7.) into the chrome tube (8.).	Step 20. Drop the Racingbros fork spring (10.) into the chrome tube (8.).
	

Step 21. Apply the thread locker (a.) and the activator (b.) on the end thread of the chrome tube (8.). Tighten the fork bottom (12.) on the chrome tube with 700 kg-cm torque values.	Step 22. Tighten the set screw on the fork bottom (12.) with activator (b.) and thread locker (a.).
	

Step 23. Clamp the shaft of Racingbros piston assembly by 12mm clamping tool (e.). And then install the Racingbros c-clip (4.) on the shaft.	Step 24. Set the Racingbros limiter spacer (3.) on the c-clip; please make sure the direction is the same as the pic shows.
	

Step 25. Set three Racingbros Bumpers (2.) on the shaft.	Step 26. Drop the Racingbros adjust rod (5.) into the shaft.
	

Step 27.	Step 28.
Install Racingbros seal head (1.) on the shaft. Tighten the preload adjuster (pa.) with shaft in clockwise direction by 17mm wrench, in the same time, use the 3mm allen key (k.) rotate the compression/rebound adjuster (ca, ra.) in counter-clockwise direction, to prevent the **damage** of the adjust rod (5.).	Tighten the preload adjuster (pa.) with the shaft by using the 17mm socket (j.) and torque wrench (d.). To prevent the **damage** of the adjust rod (5.), please make sure that compression/rebound adjuster (ca, ra.) is not in full close setting. Tighten it with 250kg-cm torque value.
	

Step 29.	Step 30.
Fill the front fork with fork oil around 190~210ml (Depend on the riding style).	Apply the Slick Bunny on the O-ring of the Racingbros seal head (1.).
	

Step 31. Clamp the outer tube (11) by using the fixture (h). Tighten the Racingbros seal head (1.) with the outer tube (11) with 250kg-cm torque value by using 33mm hex socket (c.) and torque wrench (m.).	Step 32. The installation is complete! Racingbros always set the rebound on the right leg and set the compression on the left leg just for consistency.