



racingbros

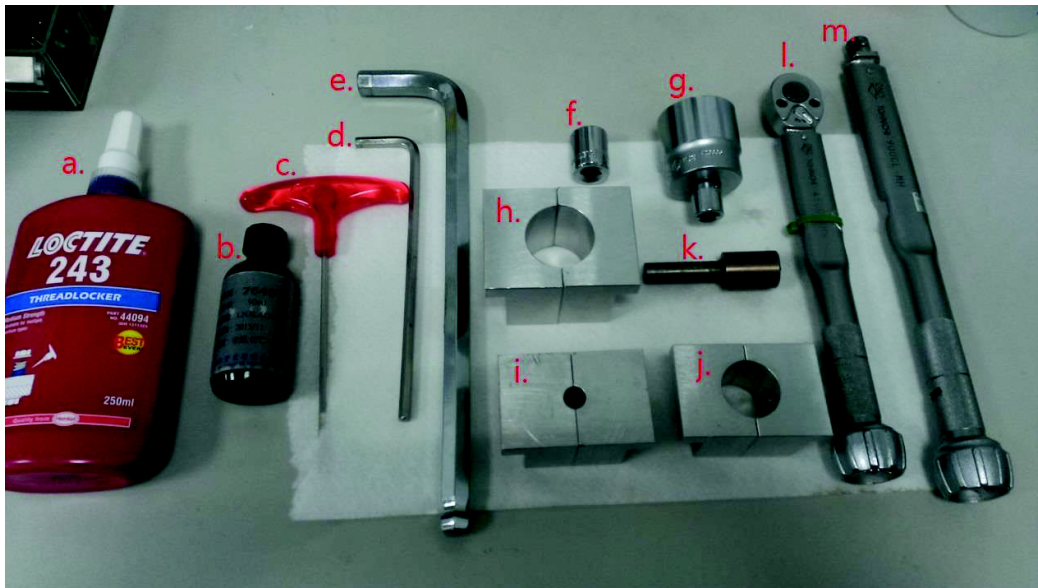
MSX Front Fork Upgrade kits

Installation SOP



Tools

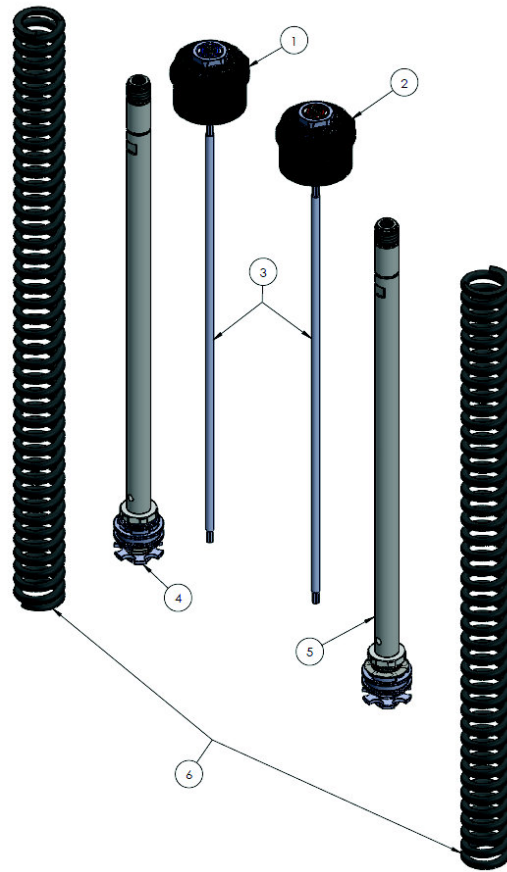
- a. Loctite243 or Loctite2701 (Thread Locker)
- b. Loctite7649 (Activator)
- c. 3mm Hex Key
- d. 6mm Hex Key
- e. 14mm Hex Key
- f. 17mm Hex Socket
- g. 35mm Hex Socket
- h. Outer Tube Fixture (Outer Diameter 39.15mm)
- i. Shaft Fixture (Outer Diameter 12mm)
- j. Inner Tube Fixture (Outer Diameter 31mm With 8mm Pin)
- k. Torque Wrench Jig Tool (Inner Diameter 12mm)
- l. Torque Wrench (250kg-cm)
- m. Torque Wrench (700kg-cm)



Tools

Front Fork Kits Assembly Introduction

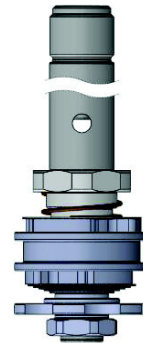
1. Racingbros MSX Front Fork Compression Adjustable Sealhead (Blue)
2. Racingbros MSX Front Fork Rebound Adjustable Sealhead (Red)
3. Racingbros Damping Adjust Rod
4. Racingbros MSX Front Fork Compression Piston Assembly
5. Racingbros MSX Front Fork Rebound Piston Assembly
6. Racingbros MSX Front Fork Spring



Front Fork Kits



Compression Piston Assembly (4)



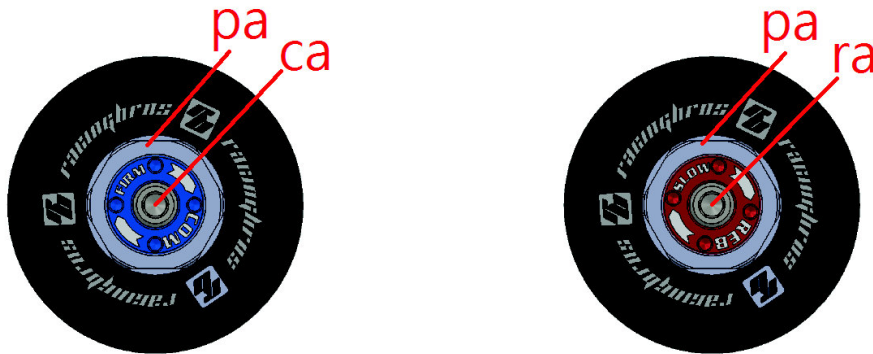
Rebound Piston Assembly (5)

Racingbros Seal Head Adjuster

pa: Spring Preload Adjuster (17mm Hex)

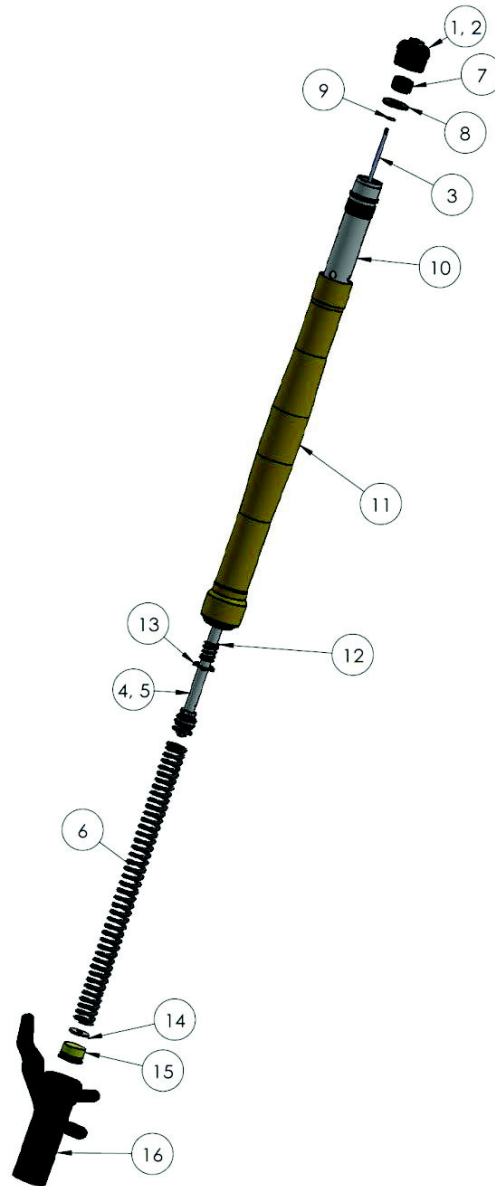
ca: Compression Adjuster (3mm Hex)

ra: Rebound Adjuster (3mm Hex)

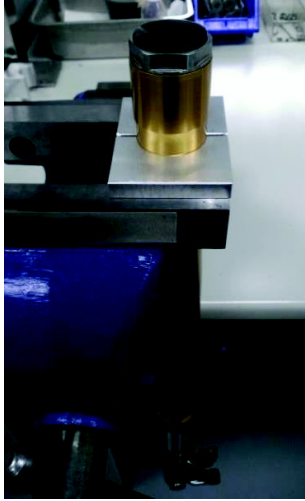
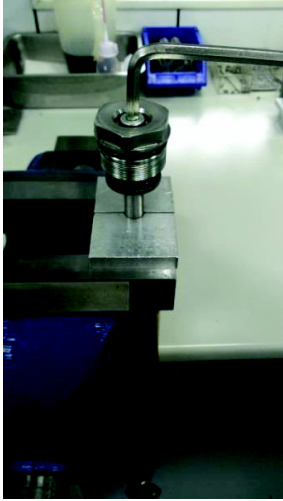




Racingbros MSX Front Fork Exploded View

7. Original Bumper
8. Original Bumper Washer
9. Original Shaft Clip
10. Original Inner Tube Assembly
11. Original Outer Tube Assembly
12. Original Top-Out Spring
13. Original Piston Glide Ring
14. Original Pre-load Washer
15. Original Inner Tube Bolt Assembly
16. Original Front Fork Bottom



Racingbros MSX Front Fork Exploded view

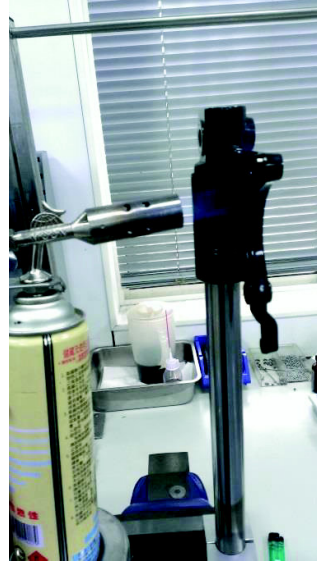
<p>Step 1. Clamp the outer tube (11) by using the fixture (h), and loosen the original seal head.</p>	<p>Step 2. Clamp the shaft with fixture (i), and loosen the bolt by using the 6mm hex key (d).</p>
	

<p>Step 3. Remove the parts from the shaft, and keep the bumper (7), the Washer (8) and the clip (9).</p>	<p>Step 4. Drain original suspension oil from the fork.</p>
	

Step 5.
Clamp the inner tube (10) by using the fixture (j).



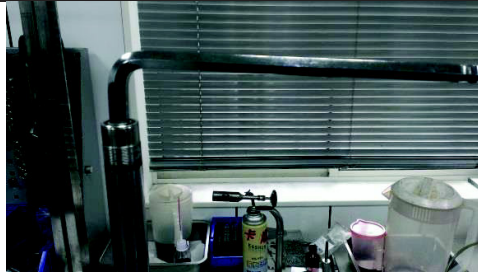
Step 6.
Heat up the front fork bottom (16) to melt the thread locker.





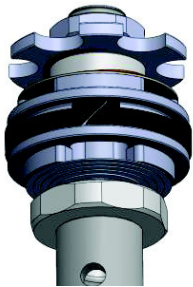

Step 7.
Loosen the front fork bottom in clockwise direction (Left-handed screw thread).



Step 8.
Loosen the inner tube bolt assembly (15) by using the 14mm hex key (e).



<p>Step 9. Remove the original spring and the original piston assembly from the fork. Keep the inner tube bolt assembly (15), Washer (14), glide ring (13), top-out spring (12).</p>	<p>Step 10. Install the glide ring (13) to the Racingbros piston assembly (4, 5). Make sure that the direction of installation is right!</p>
	

<p>Install the glide ring to the Racingbros piston assembly</p>	
<p>Please make sure that the stepped side of the glide ring is oriented to the spring side of the Racingbros assembly (as pic.).</p>	
 <p>Compression Piston Assembly</p>	 <p>Rebound Piston Assembly</p>

Step 11.

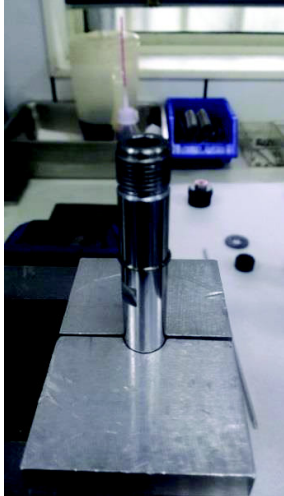

Insert the top-out spring (12), Racingbros piston assembly (4, 5), Racingbros fork spring (6) and the washer (14) into the inner tube (10). Apply activator (b) and thread locker (a) on the thread of the bolt assembly (15), and tighten it by using 14mm hex key (e).

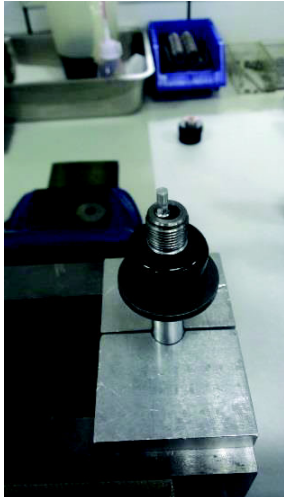





Step 12.



Apply the thread locker (a) on the thread, tighten the fork bottom (16) with the inner tube (10) by using the jig tool (k) and torque wrench (m). Tight it with 700kg-cm torque value.

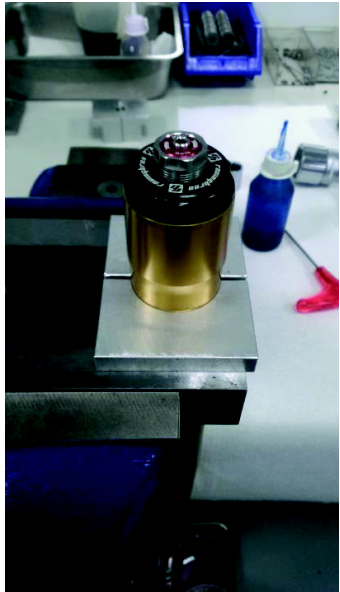


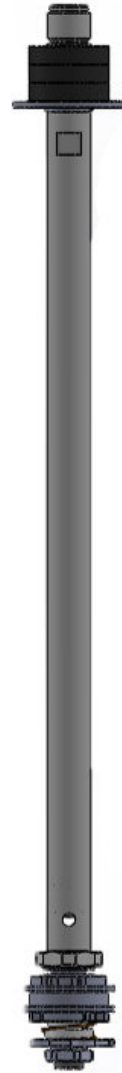
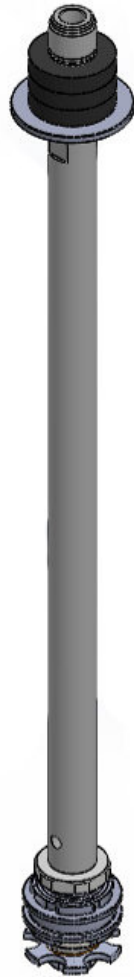
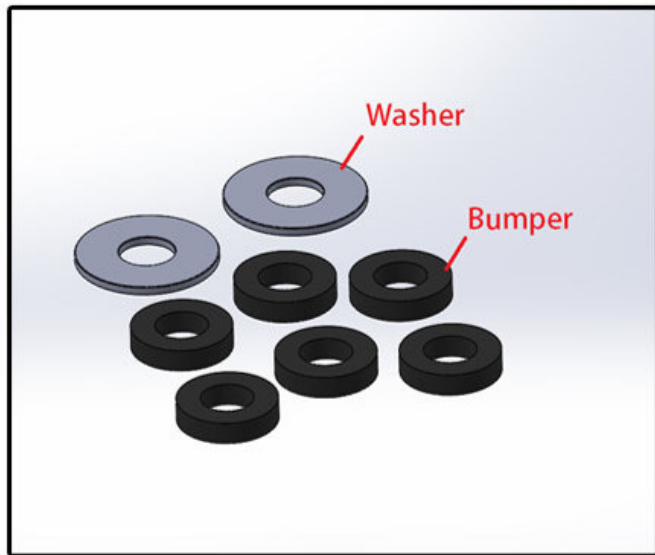
<p>Step 13. Clamp the shaft by using the fixture (i), and install the clip (9) on it.</p>	<p>Step 14. Install the washer (9) and bumper (8) on the shaft.</p>
	

<p>Step 15. Install the adjust rod (3) inside the shaft. Apply activator (b) and thread locker (a) on the thread of the shaft.</p>	<p>Step 16. Install Racingbros seal head (1, 2) on the shaft. Use the 3mm hex key (c) rotate the compression/rebound adjuster (ca, ra) in counter-clockwise direction, while tighten the preload adjuster (pa) with shaft in clockwise direction to prevent the damage of the adjust rod (3).</p>
	

<p>Step 17. Tighten the preload adjuster (pa) with the shaft by using the 17mm socket (f) and torque wrench (l). To prevent the damage of the adjust rod (3), please make sure that compression/rebound adjuster (ca, ra) is not in full close setting. Tighten it with 250kg-cm torque value.</p>	<p>Step 18. Apply the Slick Bunny on the O-ring of the Racingbros seal head (1, 2).</p>
	

<p>Step 19. Fill the front fork with 230ml of Racingbros H2R front fork oil</p>	<p>Step 20. Clamp the outer tube (11) by using the fixture (h). Tighten the Racingbros seal head (1, 2) with the outer tube (11) with 250kg-cm torque value by using 35mm hex socket (g) and torque wrench (l).</p>
	

<p>Step 21.</p> <p>The installation is complete! It's no matter for installing the rebound or compression on which side, but Racingbros always put the rebound on the right leg (the bottom with caliper brake) and the compression on the left leg just for consistency.</p>	
	



For 2017 Honda Grom SF ONLY
Use provided washer and rubber bumper as shown during for installation.

*NOTE:
THIS ONLY APPLIES TO 2016-2017
Honda Grom 125 SF only. This
does not apply to first
generation 2014-2015 Honda Grom*