FORK SERVICE MANUAL REBOUND TYPE I

 Tel:
 +44 (0) 1784 557 300

 Web:
 www.frogbikes.com

 Email:
 info@frogbikes.com

January 2024





REBOUND TYPE I



Ensure forks are cleaned after every ride. We recommend they are serviced, lubed, and tuned by your local bike shop after 100 hours of riding, or 6 months (whichever is earlier). Do not apply pressure from a water jet directly onto wiper seals or frame bearings.

This manual is for the Type I fork rebound, as illustrated by the photographs to the left and below. If you are servicing a different Frog Bikes MTB fork, please see the Fork Service Manual for Rebound Type II.



DISASSEMBLE



1. Set fork in locked out position and remove from frame.



5. Remove red lockout adjustment lever. N.B Lever should be in locked out position.



2. Remove blue air valve dust cap.

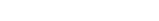


6. Remove circlip.

3. De-pressurise fork via air valve.







8. Remove 3 Ball bearings and springs using a magnetic pick.



4. Frog 69/72 MTB Only. Remove Rebound control knob using 1.5mm Allen key. N.B Under the grub screw is a small bearing and spring. Take care not to lose these parts.





9. Undo lower stanchion bottom bolts. 6mm/5mm. N.B Compress forks & make an initial sharp twist to break thread seal.



10. Slide inner and outer stanchions apart.



11. Unscrew alloy lockout top cap using 22mm socket.



14. Remove rubber top out buffer from inner air rod.



15. Slide inner air rod up and use a 24mm socket to undo and remove alloy bottom air cap. Then slide out air valve piston assembly.

12. Slide out oil cartridge from inner stanchions.



16. Unscrew alloy air valve seal top cap using 24mm socket.



13. Holding the oil cartridge firmly undo the top bolt inside the alloy top cat.



18. Degrease/Clean all parts, Check for damage or wear and lay out in order of re-assembly.

17. Remove wiper seal from outer Legs. **N.B Use a large tyre lever to pry out seal. New wiper seals**

must be used.



 Attach alloy lockout top cap to oil cartridge using the lockout assembly bolt.
 N.B. This bolt should be threaded locked using Locktite 242 or similar.



5. Re-fit circlip, locating correctly into the recess.



2. Add a small amount of grease to each of the 3 holes in the lockout assembly bolt.



6. Lightly grease lockout top cap thread and outer surface of the oil cartridge.



3. Carefully relocate the springs and ball bearings.



7. Relocate cartridge into the lockout side of the Inner stanchions.



4. Relocate the lockout control rod. **N.B take care not** to dislodge the ball bearings.



8. Tighten using 22mm socket. 18Nm



9. Grease air valve piston assembly.



10. Relocate into the inner stanchion from the bottom.



14. Add approx. 6ml of 5W fork oil down the Air side inner stanchion.

15. Re-fit the alloy air valve seal top cap using 24mm socket. 18Nm

16. Soak each NEW foam ring in 80W gearbox oil until saturated.



11. Grease the thread on the bottom alloy air cap





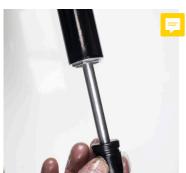
12. Re-tighten in the inner stanchions. 18Nm





17. Slide NEW wiper seals & soaked foam rings onto the Inner stanchion legs and lightly grease.

18. Apply grease over the foam rings.



13. Pull out inner air rod and fit rubber top out buffer.



19. Grease the outer stanchion bushes and foam rings using a dowel rod.



20. Slide the inner and outer stanchions back together. **N.B. The fork brace is on the back of the outer stanchions!**



23. Re-assemble Rebound control knob. Apply a small amount of grease to hold spring and bearing in place. Insert back into bolt and tighten the grub screw in place using 1.5mm Allen key.



21. With the forks upside down and compressed, relocate the Inners rods. The threads will become visible. Re-tighten the bottom bolts taking care to use the correct bolt per side. 6Nm



24. Re-fit red lockout adjustment lever. The fork should be in locked out position with cap in the appropriate position.



22. Push wiper seals back down into position.

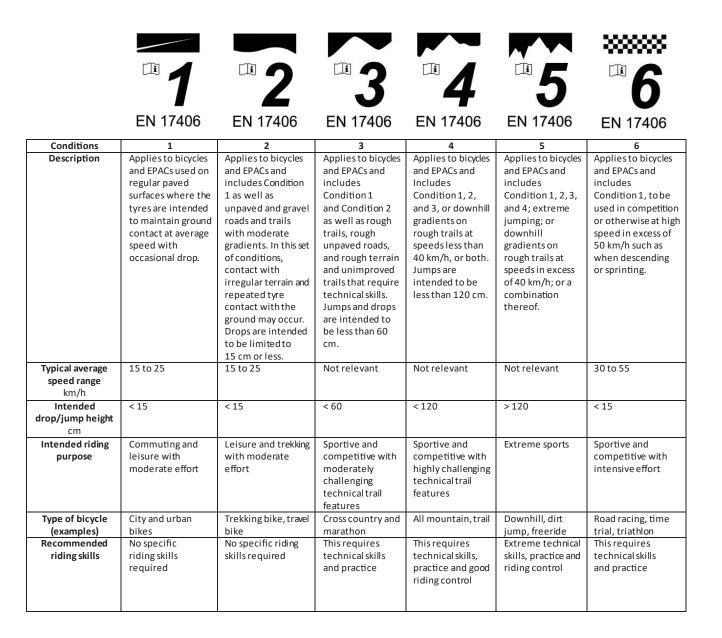


25. Pressurise the fork using a shock pump to approx. 50psi. (0271) N.B. Correct pressure can be set for rider afterwards.

26. Finally, re-fit the blue air valve dust cap. Test fork the correct way up on a soft surface. Re-fit forks to frame.

Frog Mountain Bikes fall into Condition 3 specified in EN17406 (see table below for details).

As such, it is not intended for aggressive downhill riding, jumps, dirt jumps or freeride. Improper use can result in failure of the fork, which could cause accidents or even death. Disregarding these instructions will void the warranty of the fork.





WARNING: The use of the bikes outside of their recommended riding condition will void any manufacturer's warranty.

NOTE: Once the forks are serviced, extra grease may seep through the seals within the next couple of rides. This is completely normal, and a sign of a lubricated & serviced fork.

