

Item Description	VPN	Barcode	Size	First Available
Ascend II 105mm Dropper Seatpost	BRNDXDRPA02272390105	5056201550078	27.2mm x 390mm 105mm	Sep-18
Ascend II 125mm Dropper Seatpost	BRNDXDRPA02316400125	1234560007103	31.6mm x 400mm 125mm	Sep-17
Ascend II 125mm Dropper Seatpost	BRNDXDRPA02309400125	1234560007110	30.9mm x 400mm 125mm	Sep-17

## Brand-X Ascend II 105, 125 External Route Dropper Post Disassembly, Maintenance and Reassembly

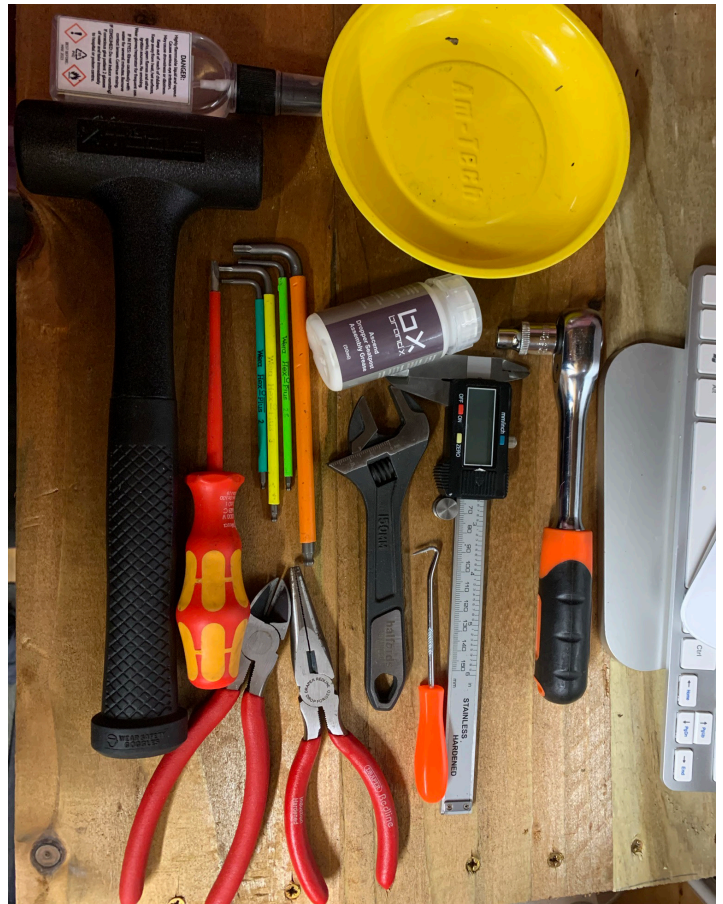
Thanks for buying a Brand-X Ascend External Route dropper post. Regular maintenance is important to ensure continued function and longevity of your post. This guide will take you through the steps required to fully disassemble and then reassemble your external route dropper post. We used a 31.6/125mm travel external route dropper post to demonstrate the steps.

### Disassembly

#### **IMPORTANT – BEFORE YOU START: HALF COMPRESS YOUR SEATPOST**

#### Tools you'll need:

- 2mm, 2.5mm, 3mm, 5mm hex key
- 8mm spanner or socket
- Torque wrench
- Vernier callipers
- Small flat head screwdriver
- Long nose pliers
- Side cut pliers
- Assembly Grease
- A pick
- Hammer
- Isopropyl alcohol and cloth
- Workstand



## Disassembly



1. Remove cable cover cap.



2. Remove seat clamp bolts.



3. Remove cap on bottom of post using 28mm spanner.



4. Undo nut on the bolt which is holding string in place.



5. Push down on the stanchion to compress the post and reveal the full actuator.



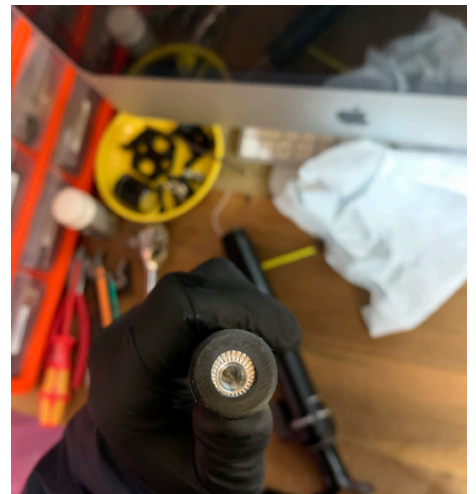
6. Undo and remove bolt on actuator using 2mm hex key then remove actuator from the bottom of the cartridge.



7. Pull pin out from the cartridge – use long nose pliers if you can't grip it with your finger.



8. Undo bolt on the top of the stanchion using 3mm hex key which is holding the cartridge in place.  
**Note: you may also need to hold the cartridge with your hand.**



9. Remove the cartridge  
**Note: there is a washer which sits on top of the cartridge so do not lose this part.**



10. Remove bump stop and washer from bottom of cartridge.



11. Pull the metal cable guide and string out from the post.



12. Loosen bolt on the collar using 2.5mm hex key.

**Now clamp your seatpost in a workstand with the side actuator facing upwards**



13. Carefully pull the collar to slide it up the stanchion and remove it from the lower part of the post.



14. Note the position of the bushing and actuator – remove the stanchion from the lower part of the post by carefully pulling it out.



15. Remove the silver cable guide from the lower part of the post.



16. Remove the lower bushing.



17. Carefully remove the brass keys using side cut pliers to grip them.



18. Remove the upper bushing.



19. Slide the metal retaining ring off the seal.



20. Remove the collar from the stanchion.



21. Remove the seal from the collar.



22. Remove the metal retaining ring from the stanchion.



23. Remove the o-ring from the lower part of the post.



Full disassembly is now complete. Clean all parts with isopropyl alcohol and inspect the component parts for wear. Exchange worn items for replacements from your maintenance kit. At this stage if required you can also replace your cartridge.

**Note - these are travel specific and so select based on your existing travel.**

## Assembly

Note – Before you start, **ensure that your cartridge has been compressed halfway**. You can do this by inserting the pin and then pushing down on the cartridge.

If the cartridge is at full travel, you will NOT be able to rebuild your seatpost.



24. Grease o-ring seat and replace o-ring on lower part of post.



25. Fit metal retaining ring onto the stanchion.



26. Grease inside of collar.



27. Refit seal into collar.



28. Slide collar onto stanchion ensuring seal does not get folded or damaged.



29. Refit top bushing.  
**Note: orientation of this to ensure it is fitted the correct way round.**



30. Grease seats for the brass keys.



31. Refit brass keys and use a hammer to hit into place.



32. Using Vernier calipers measure the diameter of the post around the brass keys to ensure they are fitted correctly.

**DO NOT** proceed past this step if the diameter does not fall within the following measurements:

30.9 / 31.6mm posts - 26.3mm-26.5mm

27.2mm posts - 23.9mm-24.0mm



33. Refit bottom bushing.



34. Rotate bushing so that the ridge is in line with one of the brass keys.



35. Grease and refit silver cable guide.



36. Refit string through the collar. Ensure the silver actuator is correctly orientated.



37. Refit bump stop and washer onto the bottom of the cartridge.



38. Double check your cartridge has been compressed halfway. If it is still at full extension insert the pin and push down on the end to compress.



39. Set rubber washer on top of cartridge then side both parts inside stanchion.



40. Loosely refit bolt to hold cartridge in place using 3mm hex key.

Clamp the lower part of your seatpost in a workstand



41. Rotate the collar, string and bushing so everything is lined up. The string should go through the slot in the bushing.



42. Feed excess string inside the cartridge, you can secure with an elastic band to added security.



43. You are now ready to slide the stanchion into the lower part of the post. Visually line up the rear of the stanchion (the side with the etching on the rear) with the rear of the lower part of the post. Rotate the collar, bushing and string so it lines up with the cable guide on the lower part of the post. Finally ensure the ridge on the bottom bushing is in line with a brass key.

With all of these checks done you can carefully slide the stanchion into the lower part of the post. If everything is lined up correctly it should all slide together with no resistance.



44. Gently grip the silver cable guide at the top and with your other hand hold the bottom of the string. Gently pull to and fro to make sure the string moves freely. If the string is stuck, remove the stanchion from the lower part of the post and repeat from step 41.



45. Tighten collar bolt using 2.5mm hex key to 4Nm.



46. Fully tighten bolt on top of stanchion to secure cartridge.



47. Ensure the string is inline and sits inside one of the machined slots inside the post.



48. Refit actuator and replace bolt using a 2mm hex key. **Note:** bolt will sit against the groove on the bottom of the cartridge so ensure it is correctly positioned.



49. Double check the actuator bolt is not poking out the other side. If it has, loosen so it remains inside the plastic housing.





50. Refit the cartridge pin – **Note:** the rounded end faces outwards.



51. Feed string through hole in bolt and washer then push through actuator, add the other washer and loosely tighten nut.



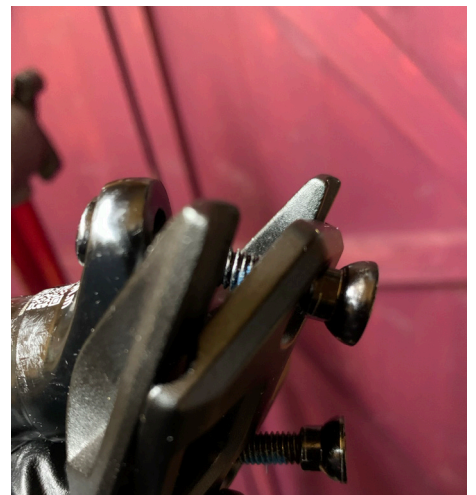
52. Using your Vernier calipers measure the height of the actuator and adjust string so that it is between 20.5mm and 21.5mm then tighten bolt to 4Nm  
**Note:** as you tighten be sure not to push on the pin as the seatpost will extend.



53. Neatly locate any excess string then replace bottom cap and tighten to 5Nm.



54. Refit metal retaining ring on the collar seal.



55. Refit seat clamp



56. Using a flat head screwdriver, push down on the silver cable guide to extend post, push the silver cable guide again and compress post to check function.

If the string is loose or post will not extend /compress, check cable tension is correct as per step 52. If it is still not working as expected, you will need to strip down and recheck the individual parts for wear and damage.



57. Replace cable cover.



Your post is now fully serviced and rebuilt. This can now be refitted to your bike.