



THE SHADOW CONSPIRACY

Raptor Cassette Hub Axle Installation Guide



This guide will help with the removal of your old Raptor axle and the installation of your new replacement Raptor axle. If you have any further questions feel free to e-mail us at info@sparkysdistribution.com.



1. Before getting started, you will need your wheel, a hammer or rubber mallet, two 23mm cone wrenches, the replacement axle, & a 6mm hex wrench.



2. Remove the axle nuts from the axle.



3. Insert the 6mm hex wrench into the 6mm axle broach on the non-drive side.



4. While holding the axle from moving with the 6mm hex wrench, break the drive side cone nut free with the 23mm cone wrench.



5. Remove the drive-side cone nut.



6. Gently pull the driver out of the hub shell. Be careful not to lose any springs or pawls.



7. Remove the driver spacer from the axle. This spacer may come out when removing the driver.



8. Insert the 6mm hex wrench into the non-drive side axle broach and break the non-drive side lock nut free with a 23mm cone wrench.



9. Remove the non-drive side lock nut.



10. Remove the non-drive side cone nut. If snug, repeat the process for the non-drive side lock nut to loosen.



11. Gently tap axle on the non-drive side with hammer. The axle and drive-side bearing should start to slide out.



12. What you will be left with is the old axle and the drive-side bearing. Remove the drive-side bearing.



13. You should have the new axle, axle nuts & washers, driver, driver spacer, drive-side cone nut & bearing, and non-drive side lock nut & cone nut to be installed.



14. Slide bearing on the drive-side of new axle.



15. Slide axle and bearing into the drive-side of the hub shell. Push bearing with your finger as far as you can into the hub shell.



16. Flip wheel over and thread non-drive side cone nut on the axle. Gently snug with 23mm cone wrench.



17. Thread non-drive side lock nut onto the axle. Hold cone nut with one 23mm cone wrench as you snug the lock nut against the cone nut with the other 23mm cone wrench.



18. Flip wheel over and slide driver spacer onto the axle. Apply light lubricant if dry.



19. Slide driver onto axle and spin clockwise until pawls start to engage and driver slides into the hub shell about halfway.



20. Thread drive-side cone nut onto axle.



21. Insert 6mm hex wrench into 6mm axle broach to keep axle from moving. Using the 23mm cone wrench, Gently tighten the cone nut until driver is pressed into the hub completely. You will feel a sudden resistance once this has happened.



22. Thread your axle nuts back onto your axle and you are ready to rip and shred.