



Deep Drop Roller Guides

We all know what can happen to any material in a salt-water environment, corrosion and mineral deposits will plague all equipment. The metals and materials used in all WT Roller Guides are among the highest quality available for fighting this harsh and corrosive environment. Our stainless steel rollers and deep drop bushings are shielded from the elements, but water intrusion may occur over time and servicing will inevitably be required at some stage during their life. Especially monitor the rollers of stripper guides (1st guide) and the tip-top (last guide) as these do most of the rolling.

The process below applies to all Winthrop Deep Drop assemblies including tops and guides.

1. Using two hex keys in the appropriate sizes, back-off the screws from the roller cartridge. Only one screw will be fully removed.
2. Carefully remove the Delrin End Cap and remove the roller assembly from the frame.
3. Break down the roller assembly by inserting a thin blade in the small gap between the roller and End Cap. Apply pressure in the direction shown below to avoid damage to the Delrin End Cap and pry off the cap. Now the shaft should be exposed. The bushings may be securely seated into the roller, do not attempt to remove them.
4. With a drill chuck (or small pliers if necessary) grab the shaft. Remove the remaining screw that is intact with the other end cap. (Be careful not to burr the shaft if using pliers, this will not let the bushing fit back onto the shaft properly). The second cap can now be removed from the shaft.
5. Wipe clean all the old grease from all components. Penetrating oils and/or compressed air may help this process.
6. Inspect the bushings for damage.
7. Re-assemble the shaft and ball bearings into the roller. If the bushings have been removed, evenly press the bushings until fully seated into the roller cavity.
8. Using a waterproof marine grease, apply a small amount to the bushings on each side of the assembly. Note that too much grease will not allow the rollers to function properly.
9. Re-assemble the End Caps and roller into the frame. Squeeze the end caps together to ensure the cartridge components are aligned and fully seated in place.
10. Re-insert the screws and use two hex wrenches to secure the end caps to the roller assembly. Hand tighten until the caps can no longer spin and the roller spins freely.

Breaking down the roller assembly

