



## Bushing 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 bushing assemblies are shielded from the elements, but salt build-up may occur over time and servicing will inevitably be required at some stage during their life. Especially monitor the rollers of stripper guides (1<sup>st</sup> guide) and the tip-top (last guide) as these do most of the rolling.

The process below applies to any Winthrop bushing assemblies including tops and guides.

1. Using two hex wrenches in the appropriate sizes, back-off the screws from the roller cartridge. Only one screw will be fully removed.
2. Insert the hex wrench into the open screw hole to push the cartridge out of the frame. You can now easily remove the remaining Delrin End Cap.
3. Break down the roller assembly by holding the Delrin End Cap pull of the roller with Bushing Sleeve. Now the shaft should be exposed and attached to one Delrin End Cap.
4. It is not necessary to disassemble the shaft from the Delrin End Cap.
5. Do not attempt to remove the Bushing Sleeve from the Roller, this will damage the Bushing Sleeve.
6. Wipe clean any old grease or salt residue from all components. A degreaser or solvent may be used if necessary.
7. With all clean components, Re-assemble the roller onto the shaft to ensure that it rolls smoothly.
8. Using a waterproof marine grease, apply a very small amount to the inside of each Delrin End Cap. Do not grease the bushing or shaft. 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 keys to secure the end caps to the roller assembly. Hand tighten until the caps can no longer spin and the roller spins freely.

