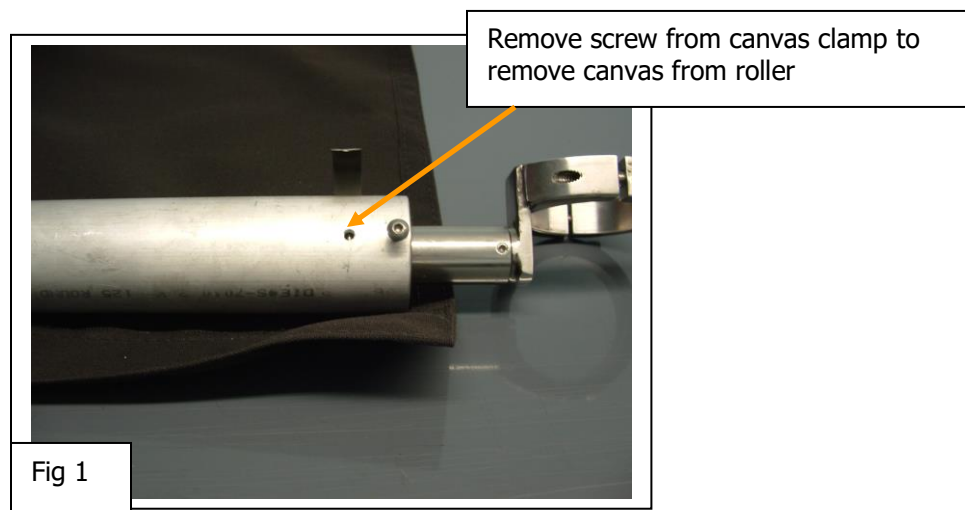


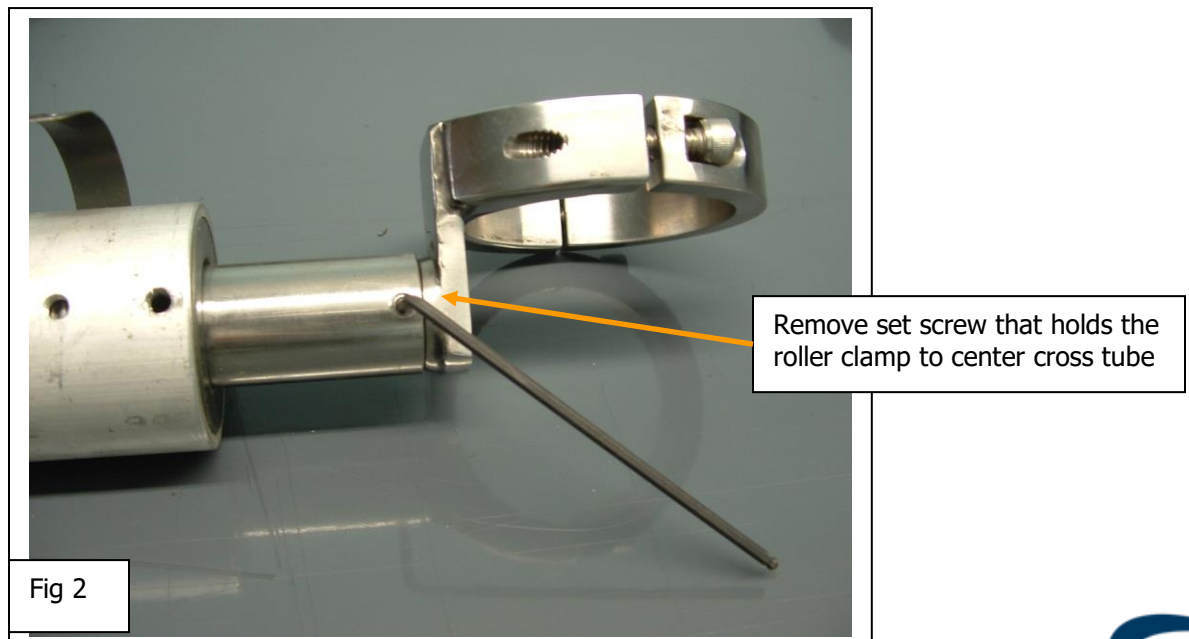
## **SureShade Roller Disassembly**

This document will explain how to disassemble the roller assembly for inspection of internal parts when the canvas is not rolling up properly. Improper roll-up of the canvas could be caused by the roller's internal components separating from each other which would happen if the roller was rotated in the wrong direction.

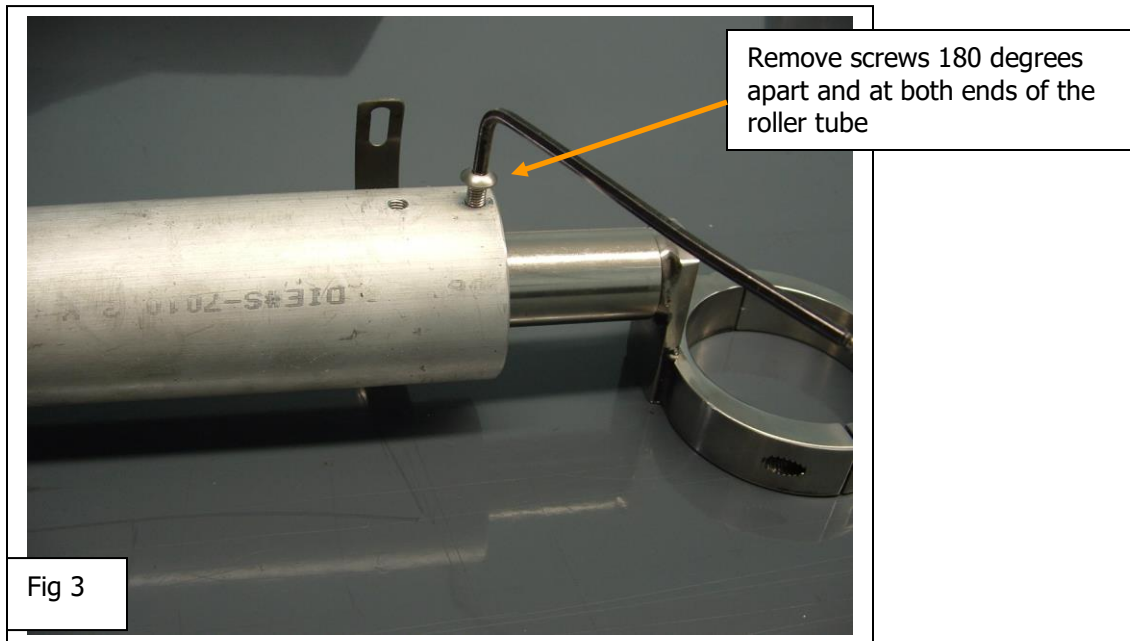
After removing the roller assembly from the actuators, remove the canvas from the roller by unscrewing the button screw from the canvas clamps (Fig 1).



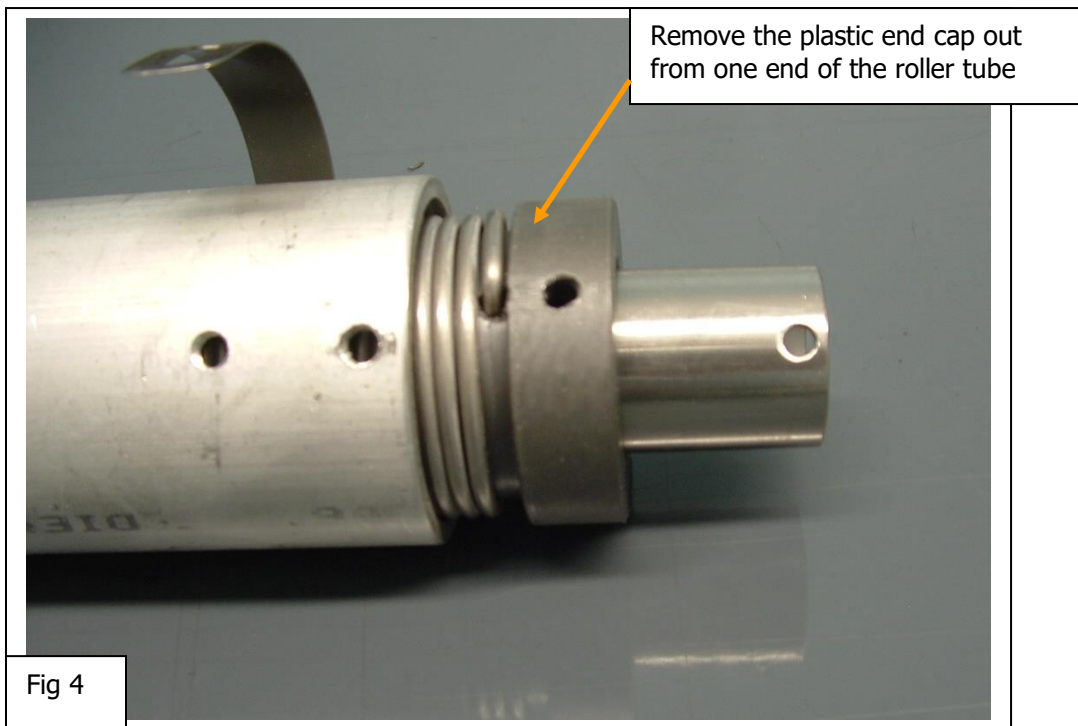
Remove the set screw that holds the roller clamp to the roller assembly (Fig 2).



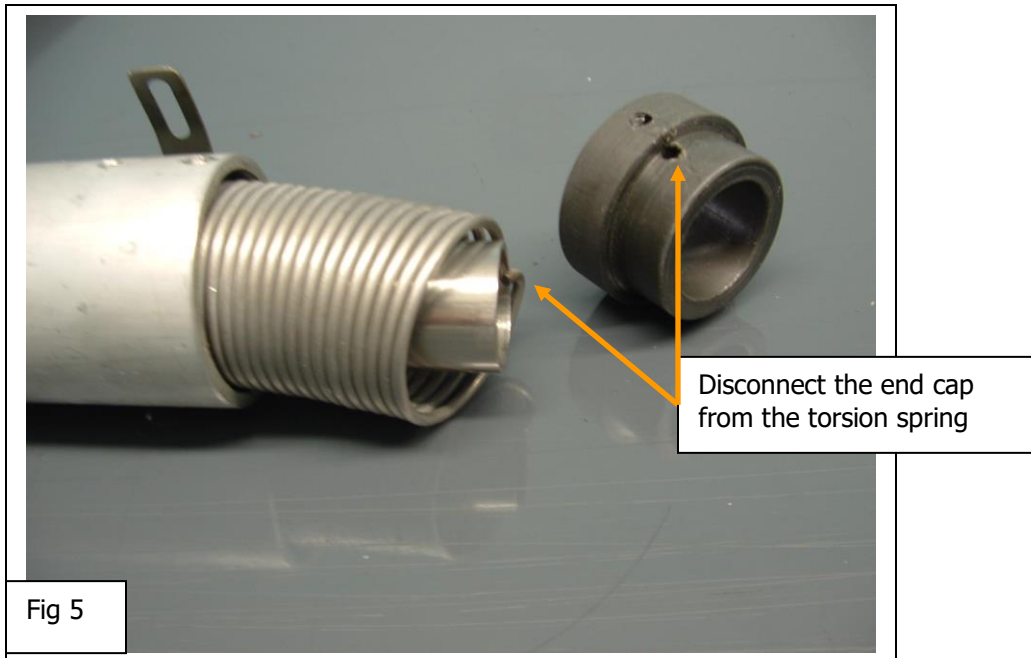
Remove the button screws from both ends of the roller that holds the roller tube to the plastic end caps (Fig 3)



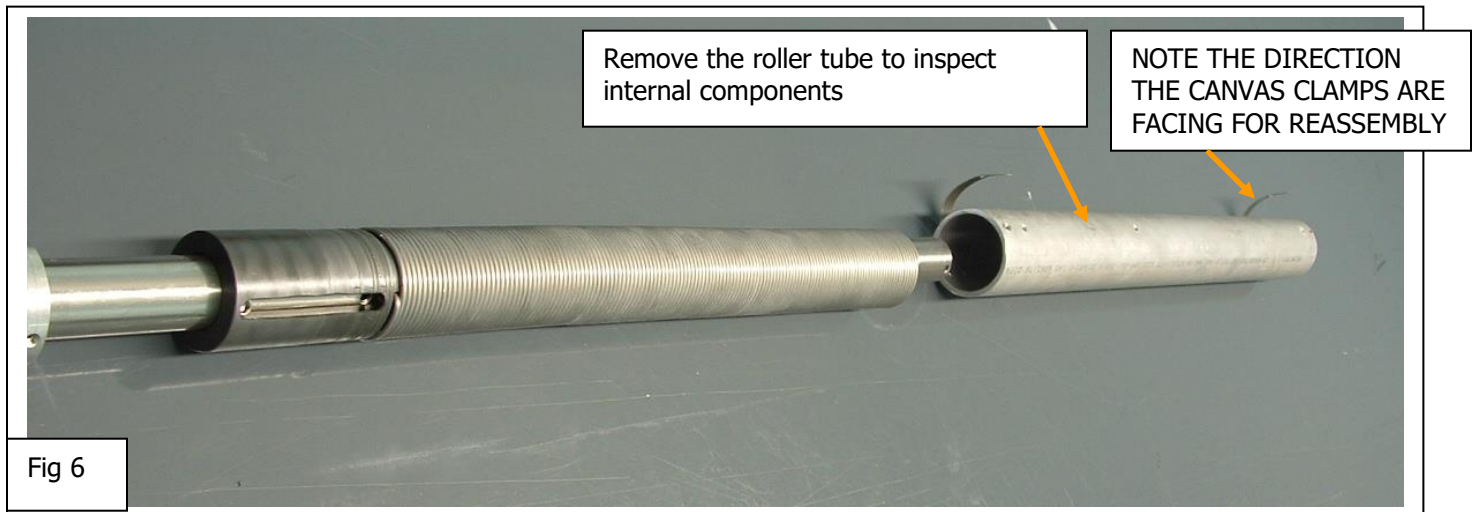
Pull the plastic end cap out from one end of the roller tube (Fig 4)



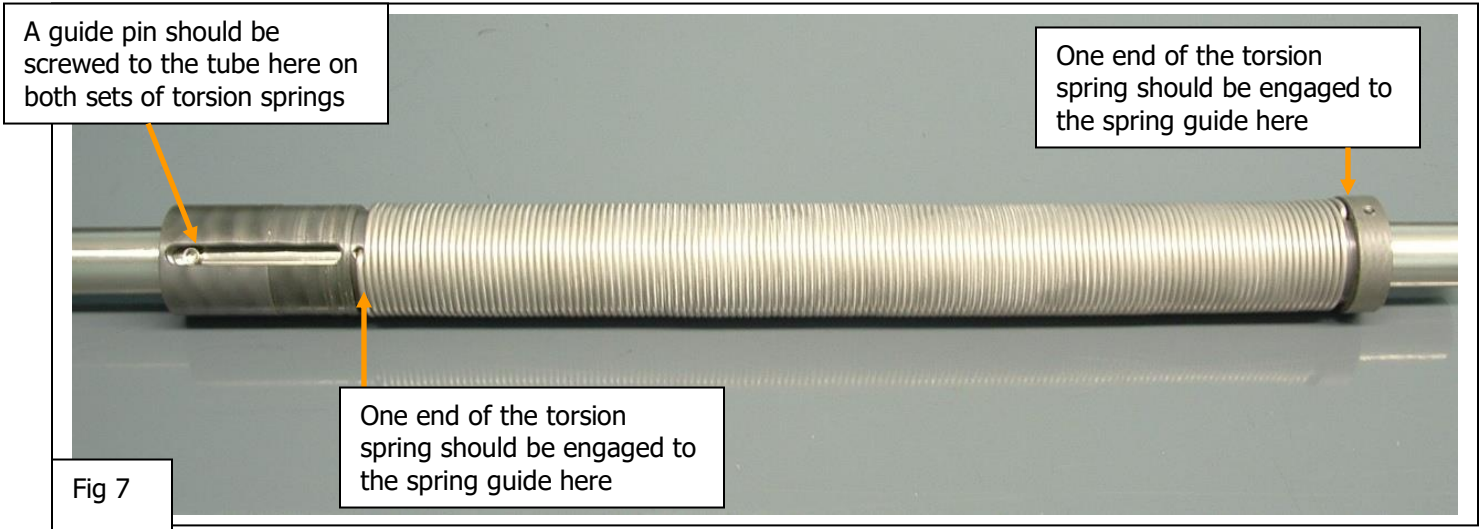
When you remove the plastic end cap from the roller tube, it should be connected to one end of a torsion spring. If it is connected to the torsion spring (as it should be), then disconnect the plastic end cap from the spring. If the end cap was NOT connected to the torsion spring, then the roller was rotated in the wrong direction causing the internal parts to disengage.



You should now be able to slide the roller tube off the assembly. When removing the roller tube, be sure to note how the canvas clamps are facing so you can reassemble the roller correctly later (the torsion springs only function correctly in one direction).



With the roller removed, check that the remaining internal components that are now exposed are properly engaged with their respective parts (Fig 7).



Reassemble the roller system and install back onto the actuators. Be sure that when you preload the roller that you only rotate the roller in the direction that the canvas comes off the roller.

