

Title: **Fitloc Assembly Details For Warranty And Install**

Models: **SC2, SC3**

TSB Update Notice:

Initial Release

Introduction:

After production changes to the Fitloc assembly initiated in 2020, new units require additional consideration before being used as replacements for field units. Thread lock was added to the adjustment pin threads, which requires the service tech to overcome “breakaway torque” before normal adjustments can be made.

Model Applications:

New Fitloc units (000-5798) to be installed on field bikes as replacements for existing units are affected by this change. Generally, this applies to all SC2 and SC3 bikes when Fitloc units require replacement.

Service Condition:

Though the Fitloc assembly design has incorporated a 6mm hex key tool-adjust feature since 2018, it can actually still be adjusted by hand. The thread lock used on new Fitloc units significantly increases turning friction, so the assembly force-to-close can only be adjusted with a tool now.

For new units, the thread lock cures after packaging, so there is a larger initial torque (specified as “breakaway torque”, with a value of 50 in-lb) to be overcome before typical torque to adjust the unit (specified as “prevail torque”, with a value of 35 in-lb) can be applied. In order to create a consistent user experience, service personnel should overcome breakaway torque and adjust the Fitloc assembly force-to-close before completing service.

Service Action:

In most cases, the breakaway torque can be overcome with a 6mm hex key, then adjustment may proceed as usual.

In limited cases, the cure strength exceeds the expected value and use of a hex key may round the plastic adjustment knob. When the force to initially turn the adjustment knob feels excessive, breakaway torque can be overcome by gripping the Fitloc unit head with pliers and using the assembly body as a lever to advance 1 full thread in each direction. After this, the unit may be assembled to the bike frame and adjustment may proceed as usual.

This alternative method may also be used when handling large quantities of Fitloc units in preparation for a service call.

Service Tools & Materials:

Required tool(s): 6mm hex key

Optional tool(s): Adjustable or locking pliers.

Service Procedure:Standard Procedure

For Fitloc units already assembled to frame.

1. If locked, unlock the Fitloc by pulling the handle away from the frame



2. Bottom working face of hex key against the adjustment knob recessed face



3. Press the adjustment knob to its end-of-stroke position against the return spring
4. While maintaining axial force, gradually increase applied torque until turning initiates
5. Drive the adjustment knob 1 full rotation in both clockwise and anti-clockwise directions
6. Adjust Fitloc for appropriate force-to-close according to typical procedure

Alternate Procedure

For Fitloc units handled in batches or when use of additional force with the hex key would likely result in rounding the plastic adjustment knob.

This method requires the Fitloc unit *not* already be assembled to the frame.

1. Grasp the Fitloc head with pliers.
2. Using the body & handle of the Fitloc as a lever, rotate the Fitloc unit 1 full rotation in both clockwise and anti-clockwise directions
3. Assemble Fitloc unit to the frame with 4 x button head screws
4. Adjust Fitloc with 6mm hex key for appropriate force-to-close according to typical procedure