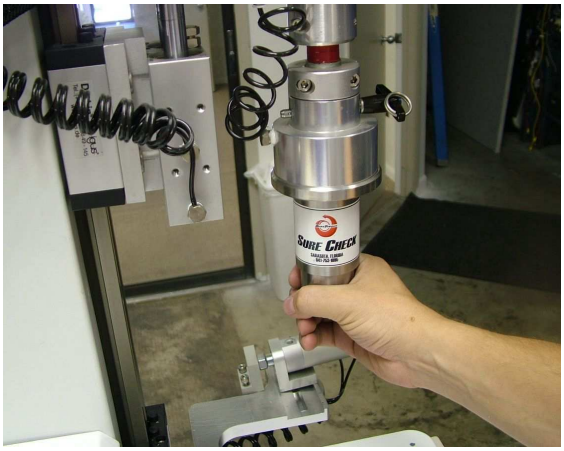
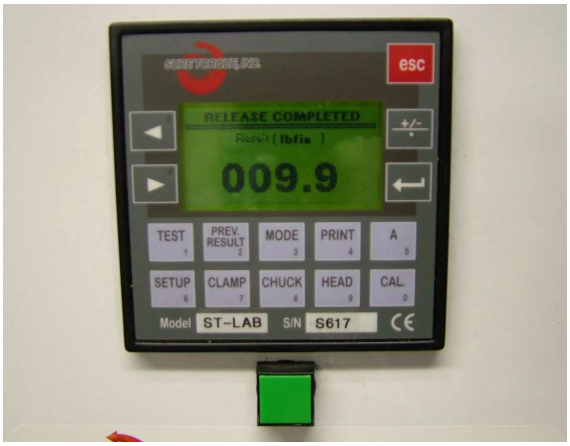
Checking SureCheck Calibration / Recalibration

(v20090409)

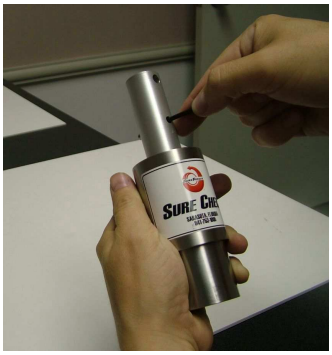
Step by step instructions:



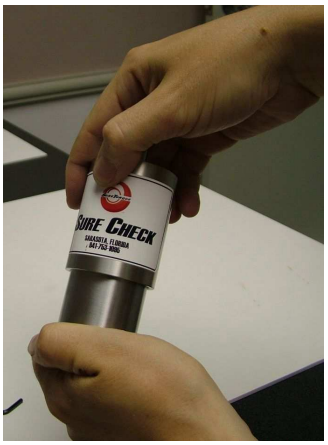


Check calibration of reference ST-LAB with the dead weight method, then insert the SureCheck in the chuck.
When the SureCheck mode is available in the machine, select it and run a test.
Otherwise, make sure pinchpoints are eliminated (orient clamp cylinder to point backward and lift head assembly to the top of the slide) then start a release test. Use the appropriate fixture (preferred) or your hand to hold the bottom of the SureCheck steady during the test.

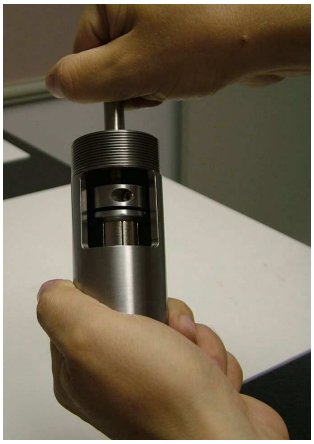
Unless the customer specified otherwise, the SureCheck is calibrated to produce 10lbfin breakaway torque.
Check all magnetic break peaks (4). If peaks are within 10+/-0.2lbfin the device is acceptable.
Follow the instructions below only if recalibration to a different break torque is required.

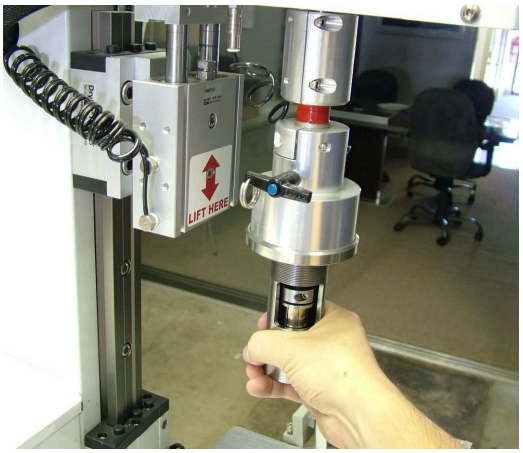


Remove pin from the chuck adapter shaft, then pull the SureCheck shaft out of the adapter.



Unscrew the upper part to recover the torque adjustment window.





Orient rotor until clamp setscrew is visible.
Release setscrew and rotate shaft intuitively to set required break torque. A full revolution results in approx 1 lbfin change in break torque. The more you engage the magnets in the stationary part the higher the breakaway torque will be.

Assemble chuck adapter and SureCheck, then slide it in the chuck, secure it with the quick release pin and check break torque in release mode. If peak is within +/- 0.1 lbfin of the required break torque, take SureCheck out of the chuck, if adjustment is required, repeat previous step.

When the measured peak is within +/- 0.1lbfin, assemble SureCheck, write SO# on a decal and stick it on the device where the upper shield will hide it.
Loctite threads and tighten the “screw-on shield” to bottom part.
Slide the chuck adapter on rotor shaft.
Attach calibration sticker between shield/bottom to provide tamper evidence then prepare calibration certificate.