## Scott Franz



If friction is neglected, a 0.473 in-oz torque on the sear loadimgsorawis necessary to result in a 11.4 pound force at the sear (the load I calculated earlier).

With a thread coefficient of friction of 0.2 , the necessary tonquesgses to 1.79 in-0z.
Assuming no changes in geometry, a linear relationstig between scievitorque and sear force exists -- a $5 \%$ deviation in torque will result in a $5 \%$ deviation $\%$ s. sear force.

Does the 0.473 in-oz torque sound low? I calculated that thes screwinust supply a 3.72 pound horizontal force to result in a 11.4 pound vertical force. Cofsiderthysforce-mivilitiplying wedge and that the wedge face is twice as far from the pivot as the sear force winiss.and $3.7 \%$. \%ounds seems reasonable.

## -- Brian

