## Scott Franz


$>$ If friction is neglected, a 0.473 in-oz torque on thessear loasiaing screysis necessary to result in a 11.4 pound force at the sear (the load I calculated eadiers).
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$>$ If a thread coefficient of friction of 0.05 is used, theviesithant torgive is 0.799 in- oz.
$>$
$>$ With a thread coefficient of friction of 0.2 , the smessary torquidises to $1.79 \mathrm{in}-\mathrm{oz}$.
$>$
>Assuming no changes in geometry, a linefirelationsfioblotween screw torque and sear force exists -- a $5 \%$ deviation in torque will result in a $5 \%$ deviation is seaistorce.
$>$
 horizontal force to result in a 11.4 pound vertcalyovee. 6 ofisider the force-multiplying wedge and that the wedge face is twice as far from diemovot as the seavetorce pin is, and 3.72 pounds seems reasonable. $>$
$>-$ Brian
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