

CH 14 HWK

ME 340

14.13 NORTON

11/19/98

TORQUE TO ACHIEVE DESIRED PRELOAD (70%)

$$F_i = 0.70 A_t S_p = 0.70 (0.1063 \text{ in}^2) 105 \text{ kpsi} = 7813 \text{ lb}$$

$$T = 0.2 F_i d = 0.2 (7813 \text{ lb}) \frac{7}{16} \text{ in} = 684 \text{ in}\cdot\text{lb} = 57 \text{ ft}\cdot\text{lb}$$