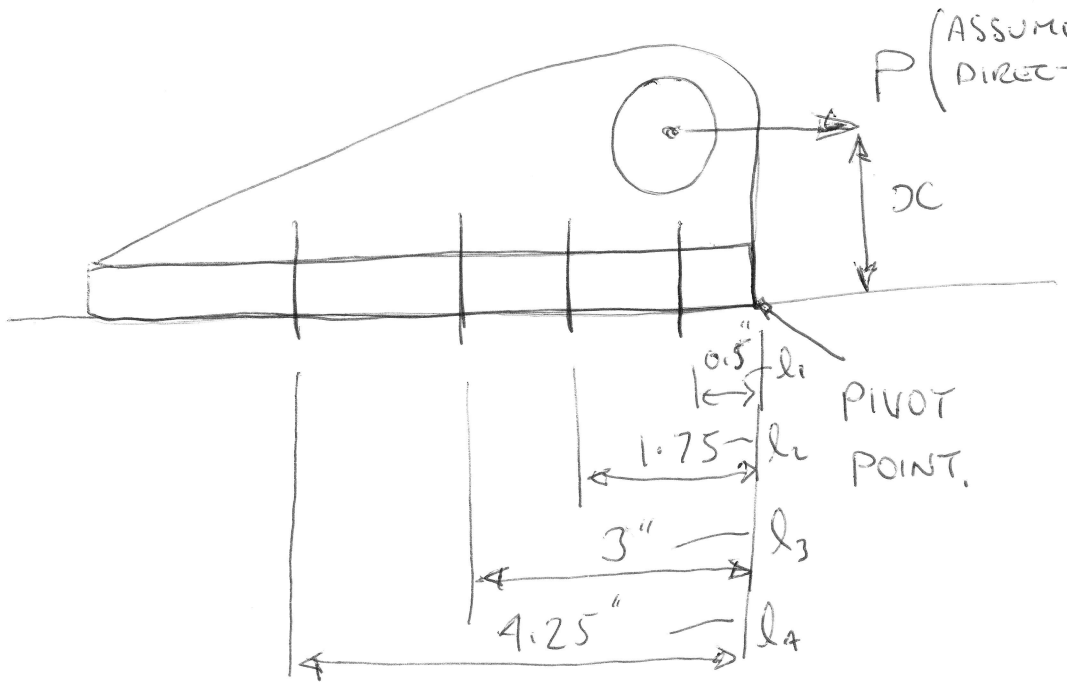

ASSUME BRACKET TO BE RIGID NOW THERE 2 BOLTS AT EVERY DIMENSION POINT FROM THE PIVOT.

LET μ = FORCE PER UNIT LENGTH OF BOLT.

$$\therefore P_{DC} = 2\mu l_1^2 + 2\mu l_2^2 + 2\mu l_3^2 + 2\mu l_4^2$$

$$P_{DC} = 2\mu\left(l_1^2 + l_2^2 + l_3^2 + l_4^2\right)$$

$$\frac{P_{DC}}{2\times\left(l_1^2 + l_2^2 + l_3^2 + l_4^2\right)} = \mu$$

SOLVE FOR μ AND THEN TENSILE FORCE FOR EACH BOLT IS :-

$$\mu \times l_1 =$$
$$\mu \times l_2 =$$
$$\mu \times l_3 =$$
$$\mu \times l_4 =$$