

MODEL C-97  
C.F. 554

UNITED AVIATION LIMITED

EDMONTON, ALTA.

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REPORT NO. 1  
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TO CALCULATE TAKE-OFF WEIGHT (TW) (IN STYING POSITION)

EMO C.G.  $R_M (a.m.w.) = R_T (W_T + (C.M.W.))$

$R_M (a.m.w.) = R_T (W_T + a)$

BUT  $R_M C.G. = W_T \quad R_M + W - R_T$

$(W - R_T) (a + W) = R_T (W_T + a)$

$W_T - R_T a + W W - W a + R_T a = R_T W_T + R_T a$

$W_T + W W = 442 R_T + 442 R_T$

$\therefore R_T = \frac{W_T + W W}{442} = \underline{730}$

$R_M - W - R_T = \underline{15,560}$

Load Main wheel -  $\frac{R_T}{2} = \underline{7180}$

\_\_\_\_\_  $R_T$

\_\_\_\_\_  $R_M$