

MEASUREMENTS	
L _{MH}	70.75 INCHES/CM.
L _{ML}	72.25 INCHES/CM.

SCALE POSITION AND SYMBOL	SCALE READING	TARE	NET WEIGHT
Nose Wheel (W _N)	648		648
Right Main Wheel (W _R)	768		768
Left Main Wheel (W _L)	698		698
Basic Empty Weight, as Weighed (W _T)			2115

a. CG Forward of Main Wheels:

$$\frac{648 \text{ LBS/KG} \times 72.25 \text{ IN/CM}}{\text{Weight of Nose} \quad \text{Distance Between Main and Nose Wheel Axle Centers}} \rightarrow \frac{2115 \text{ LBS/KG}}{\text{Total Weight of Aircraft}} = \frac{22.13 \text{ IN/CM}}{\text{CG Forward of Main Wheels}}$$

(W_N)
(L_{MH})
(W_T)
(L_M)

a. CG Aft of Datum (Station 0):

$$\frac{70.75 \text{ IN/CM}}{\text{Distance from Center Nose Gear Trunion to Center of Main Wheel Axles (Horizontal)}} - \frac{5 \text{ IN (12.7 CM)}}{\text{Distance from Nose Gear Trunion to Datum}} - \frac{22.13 \text{ IN/CM}}{\text{Result of Computation Above}} = \frac{43.62 \text{ IN/CM}}{\text{CG (FUS. STA.) Distance Aft of Datum (Empty Weight CG)}}$$

(L_{MH})
Constant
(L_M)
(L_{CG})

HORTON AERO SERVICE, INC.
915 KENT ROAD
LUBBOCK, TX. 79403
ARS AB2R684K

ADDITIONAL EQUIPMENT LIST / REVISED WEIGHT AND BALANCE

REG NO: 57055
A/C MAKE: MOONEY
A/C MODEL: M 20 K
A/C S/N: 0784

DATE: 6-28-97
TACH: 1122.4
WORK ORDER #: 45450
SUPERCEDED DATE: 6-20-97

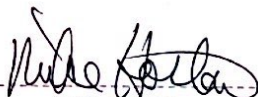
1749.8
1122.4
727.4

	WEIGHT	ARM	MOMENT
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PREVIOUS A/C EMPTY	2041.10	38.13	77827.14
REMOVED ITEMS			

HARTZELL PROP - 3 Blade	74.00	-45.01	-3330.74
INSTALLED ITEMS			

MC CAULEY PROP - 2 Blade	60.00	-45.01	-2700.60

NEW A/C EMPTY	2027.10	38.70	78457.28
NEW A/C E.W. :	2027.10		
NEW A/C C.G. :	38.70		
NEW USEFUL LOAD :	872.90		



MIKE HORTON

ABOVE INSTALLATION PERFORMED
IN ACCORDANCE WITH MANUFACTURERS
SPECIFICATIONS AND IS APPROVED
FOR RETURN TO SERVICE

AUTHORIZED SIGNATURE
HORTON AERO SERVICE, INC.
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