

N512

Serial No. M-11-1388

Date 04-01-2026

61.75

Datum used is Fuselage Station ZERO. Station Zero is located 47.75" forward of the firewall.

Location of Main Wheel weighing point is Sta. 69.375

Location of Tail Wheel weighing point is Sta. 245.375

AIRCRAFT WEIGHTS AS FOLLOWS

	Scale Reading	Tare	Net	Station	Moment
Left Wheel	610			69.375	42,318.75
Right Wheel	622			69.375	43,151.25
Tail Wheel	68			245.375	16,685.50
TOTALS	Empty Aircraft Weight		1300	78.58	102,155.5

Total Moment
EMPTY WEIGHT C.G. = $\frac{\text{Total Moment}}{\text{Total Weight}}$ = Sta. 78.58 (typ. sta 64.5)

Most FORWARD C.G. Determination

ITEM	WEIGHT	STATION	MOMENT
Aircraft Empty Wt.	1300	78.58	102,155.5
Oil (max. qts.)	-	-	-
Fuel Header (max gal)	32	69.25	2,214.0
Pilot	136	103.75	14,110.0
TOTALS	1468	80.71	118,481.5

Total Moment
FORWARD C.G. = $\frac{\text{Total Moment}}{\text{Total Weight}}$ = Sta. _____

Most REARWARD C.G. Determination

ITEM	WEIGHT	STATION	MOMENT
Aircraft Empty Wt.	1300	78.58	102,155.5
Oil (min. Included)	-	-	-
Fuel Header (min.)	32	69.25	2,214.0
Fwd Cont. Fuel	36	79.75	2,871.0
Pilot CA	174	103.75	18,053.0
Pilot FO	169	103.75	17,534.0
Passenger			
Baggage	75	136.75	10,256.0
Aft Cont. Fuel	84	98.75	8,295.0
TOTALS	1870	86.32	161,380.0

Total Moment
REARWARD C.G. = $\frac{\text{Total Moment}}{\text{Total Weight}}$ = Sta. 86.32

CENTER OF GRAVITY LIMITS are STA. 80.75 - 86.75 (16% to 28% MAC)

USEFUL LOAD = $\frac{1870}{\text{(Gross Wt.)}} - \frac{1300}{\text{(Empty Wt.)}} = \frac{570}{\text{(Useful Load)}} \text{ lb.}$

A list of all equipment included in the Empty Weight is to be attached to this form.

7/15/97 CKT