

AERO COMMANDER 100
N4104 SN: 201
Weight and Balance Data

Weight and Balance Data Used:

1. Aero Commander Type Certificate Data Sheet 1A21 Section II
2. Darter Commanders Owners Manual – Aero Commander Division, Model 100
Page 2, Penciled April 1, 2016 Empty Weight and CG (used aircraft weights and chalk dimensions only).

Weight and Balance Part 1

Aircraft Scale Weights:

Nose Wheel	335 lbs.
Left Main	591 lbs.
Right Main	600 lbs.
Total	1526 lbs.

Weight and Balance Part 2

Aircraft Datum: Leading Edge of Wing

Data Table:

Item	Weight	Arm	Moment
Nose Wheel	335 lbs.	35.5	12,602
Left Main Wheel	591 lbs.	100	59,100
Right Main Wheel	600 lbs.	100	60,000
Fuel (unusable)	24 lbs.	50.6	576
Oil (unusable)	6 lbs.	-21	-242
Total	1556		131568

Aircraft Total Empty Weight = 1,556 lbs.

Aircraft Total Moments = 131568 inch lbs.

New Aircraft Empty Weight CG = $131568 / 1550 = 84.5 = 85$

Center of Gravity = 100 inches (Wing Leading Edge) – 85 = 15 inches behind the Datum

Weight and Balance calculated using aircraft weights and measurements provided in April 2016, and utilizing unusable fuel and oil.

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