

Aircraft Basic Empty Weight and Balance

Date: January 5, 2021
Model: Piper PA28-161
Aircraft Serial: 28-7916077
Registration: N30117

Aircraft weighed this date IAW section VI weight and balance section of Piper Cherokee Turbo Arrow III POH, AC43.13-1B section 2, TCDS 2A13 utilizing calibrated wheel weighing scales as the aircraft was equipped this date.

Scale S1 reading = 657 lbs. Right main wheel	Tare = 0 lbs.	Net weight = 657 lbs.
Scale S2 reading = 647 lbs. Left main wheel	Tare = 0 lbs.	Net weight = 647 lbs.
Scale S3 reading = 503 lbs. Nose wheel	Tare = 0 lbs.	Net weight = 503 lbs.

Aircraft weighed with **full fuel (50 gallons)**, 7 qt. Indicated Engine Oil, no fire extinguisher installed, no other portable equipment installed. 4 seats total. Front seats in full forward position. Aircraft leveled longitudinally and laterally as specified in AFM.

Scale S1 arm = 110.3
Scale S2 arm = 110.3
Scale S3 arm = 31.2

Total weight **as stated** = 1807
CG empty weight = 88.28
Total moment = 159527.8

Less usable fuel 50 gallons = (300) lbs @ arm 95 (28500 moment)
Unusable full added 12lbs @ arm 103 = moment 1236

Total **empty weight** = 1519 lbs.
CG empty weight = 87.07
Total moment = 132263.8

Center of Gravity Range - Normal Category

(+83.0)	to (+93.0)	at 1950 lb. or less
(+87.0)	to (+93.0)	at 2325 lb.

It is the responsibility of the airplane owner and pilot to assure that the airplane is properly loaded. Maximum allowable gross weight is 2325 pounds take-off weight in normal category. See "weight and balance section" for loading instructions.

David Beaver



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