

# **N7737T**

## **2008 Harmon Rocket II**

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# **Weight and Balance**

**Aircraft S/N: 185**



*Prepared by the worldwide aviation specialists at RidgeAire, Inc.*

# WEIGHT AND BALANCE FOR HARMON ROCKET II

REGISTRATION # N7737T

SERIAL # 185

FUEL WEIGHT _____		0
RIGHT WHEEL WEIGHT _____		585
LEFT WHEEL WEIGHT _____		595
TAIL WHEEL WEIGHT _____		38
DISTANCE FROM TAIL WHEEL CENTER LINE TO MAIN CENTER LINE _____		180
DISTANCE BACK FROM LEADING EDGE OF WING TO WHEEL CENTER LINE _____		0.5
GROSS WEIGHT _____		2000
DATUM IS 80.0 FOWARD OF WING LEADING EDGE		
D=DISTANCE FROM DATUM TO MAIN WHEEL CENTERLINE _____		80.5
T=TAIL WHEEL WEITGHT _____		38
L=DISTANCE FROM TAIL WHEEL CENTER LINE TO MAIN CENTERLINE _____		180
W=TOTAL WEIGHT OF AIRCRAFT AS WEIGHED _____		1218

C.G. as weighed:  $D + \frac{T \times L}{W}$

**C.G. AS WEIGHT 86.12 INCHES AFT OF THE DATUM**

ITEM	WEIGHT	ARM	MOMENT
AIRCRAFT AS WEIGHTI	1218	86.12	104889
FUEL	0	90	0
EMPTY WEIGHT C.G.	1218	86.12	104889

EMPTY WEIGHT C.G.: 86.12 INCHES AFT OF THE DATUM

USEFUL LOAD \_\_\_\_\_ **782**

Center of Gravity forward and aft C.G. range 86.7 to 97.4 aft of datum.

## Forward Check

ITEM	WEIGHT	ARM	MOMENT
AIRCRAFT	1218	86.12	104889
PILOT	240	105	25200
FUEL GAL	58    348	90	31320
	1806	89.37	161409

## Aft Check

ITEM	WEIGHT	ARM	MOMENT
AIRCRAFT	1218	86.12	104889
PILOT	240	105	25200
PASSENGER	200	136	27200
FUEL GAL	5.0    30	90	2700
BAGGAGE	65	164	10660
	1753	97.35	170649

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