

Weight and Balance Report

C-FWBE

Amendment to Aircraft Weight & Balance

Aircraft Information

Registration	C-FWBE
Aircraft Manufacturer (Builder)	C.R. Goguillot
Owner Address	4103 104 Street, Delta, BC V4K 3N3
Aircraft Model	Druine Turbi D5

Amendment Details

	Weight	Arm	Moment
Original Configuration (see attached)	953	28.08	26763
Minus – McCauley Metal Propellor	-24	-42.75	1026
Plus – Ed Sterba Wood Propellor	11	-41.75	-459
New Configuration	940	29.07	27330

New C of G Location is 29.07 inches aft of aircraft datum (firewall)

New Sample CG Calculations

Station (inches)	73 Pilot	42 Pass	11 Fuel	91 Baggage	CG
Forward CG	162	0	128	0	33.0
Aft CG	240	0	0	0	38.0
Aft CG – No Fuel	180	180	0	25	38.0
Gross – 1500lb	198	198	128	35	36.5

I certify that to the best of my knowledge represent the true empty weight and center of gravity of this aircraft at the date and shown below.

Date 2011-09-04

Signature 

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Aircraft Manufacturer (Builder)	C.R. Goguillot
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Aircraft Model	Druine Turbi D5
Aircraft Serial Number	

Weighing Data

Weighing Point	Scale Reading (lb)	Tare (lb)	Net Weight (lb)	Arm (in)	Moment (lb*in)
Left Wheel	512.0	0	512	24	12288
Right Wheel	494.0	0	494	24	11856
Tail Wheel	16.0	0	16	211	3376
LESS:					
Fuel		43 L	69	11	757
Totals			953		26763

Weighing	Date	2011-04-17
	Place	Delta, BC

Levelling Reference Datum	Canopy Rail Aircraft Firewall
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Total Moment	26763 lb*in
Total Weight	953 lb
Empty C.G.	28.1 in. aft to the datum

CG Range	Forward	33.0 in
	Rear	38.0 in

I certify that this data has been prepared in accordance with AC43.13 1B and to the best of my knowledge represent the true empty weight and center of gravity of this aircraft at the date and place of weighing shown above.

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Operational Additional Weights and Arms

Seats	Passenger	192 lb	42 in
	Pilot	192 lb	73 in
Fuel	Forward	128 lb	11 in
	Aft	35 lb	91 in
Oil Capacity		6 L	
	(incl. in empty weight)	36 lb	-21.5 in
Total Additional Weights		547 lb	
Plus Empty Weight		953 lb	
Equals Aircraft Gross Weight		1500 lb	

Equipment items included in the Empty Weight: See Equipment List Sheet 4

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Examples of aircraft loading, while keeping within the loading envelope.

Loaded Center of Gravity Limits	Forward	33.0 in
	Aft	38.0 in

1 / Loading condition that results in most forward center of gravity

Item	Weight	Arm	Moment
Aircraft Empty	953	28.1	26763.2
Pilot	188	73.0	13724.0
Passenger	0	42.0	0.0
Fuel	128	11.0	1408.0
Baggage	0	91.0	0.0
Totals	1269		41895.2
Total Moment / Total Weight		33.0 in	

2 / Loading condition that results in most rearward center of gravity

Aircraft Empty	953	28.1	26763.2
Pilot	217	73.0	15841.0
Passenger	0	42.0	0.0
Fuel	0	11.0	0.0
Baggage	35	91.0	3185.0
Totals	1205		45789.2
Total Moment / Total Weight		38.0 in	

3 / Loading condition at Gross Weight

Aircraft Empty	953	28.1	26763.2
Pilot	192	73.0	14016.0
Passenger	192	42.0	8064.0
Fuel	128	11.0	1408.0
Baggage	35	91.0	3185.0
Totals	1500		53436.2
Total Moment / Total Weight		35.6 in	

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Appendix 1 – Equipment items included in the empty weight

Item	Weight (lb)	Arm (in)	Moment (lb-in)
Firewall Forward			
Lycoming O-235 Engine			
McCauley Propellor			
Starter			
Alternator			
Battery			
Regulator			
Oil Cooler			
Oil Filter			
Full Canopy			
Cowling			
Instruments			
Airspeed (2)			
Altimeter (2)			
Compass			
Rate of Climb			
Turn & Bank			
Tachometer			
Ammeter			
Fuel gauge			
Oil Temperature			
Oil Pressure			
Hobbs Meter			
Radio			
Transponder			
ELT			
Other Equipment			
Hydraulic Brakes			
Wheels, Tubes, Tires			
Lights, Wiring, and Switches			
Fire Extinguisher			
Dual Shoulder Harnesses			
Antennae (2)			

All equipment measured in-place as part of this Weight and Balance report.

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