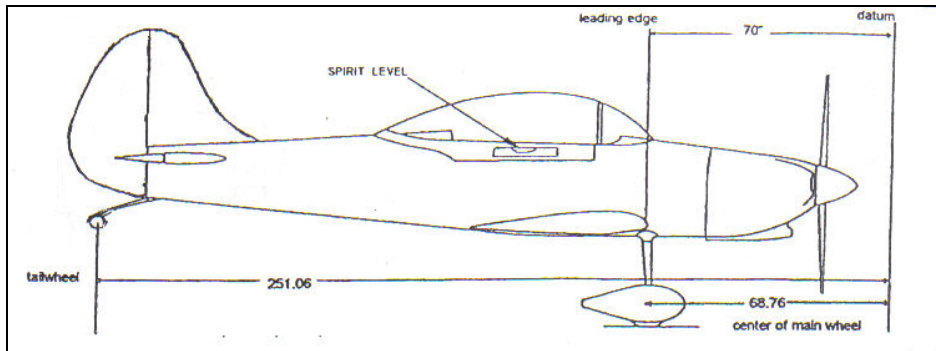


SAMPLE WEIGHT AND BALANCE RECORD FORM (IMPERIAL)



WEIGHT AND BALANCE RECORD

FORM LAA/WB (IMPERIAL)
Date: JUNE 2009

Aircraft Type LAA SPORTSTER Serial No. LAA 002 Reg G-XLAA

Datum 70' FWD OF WING LEADING EDGE Levelling Reference CANOPY RAIL

CofG: Fwd Limit 78.0 Inches. Aft Limit. 86.0 Inches. *Fwd/Aft of datum
(Delete as required)

MTOW 1800 lbs Max Empty Weight _____ lbs (Microlights only)

Cockpit placards regarding loading limitations MAX BAGGAGE 50 LBS

EMPTY WEIGHT CALCULATIONS

ITEM	SCALE READING (lbs)	CORRECTION (lbs)	NET WEIGHT (lbs)	ARM (inches)	MOMENT (lb.inches)
LEFT WHEEL	514.0	+2	516.0	68.76	35480.16
RIGHT WHEEL	512.0	-3	509.0	68.76	34998.84
NOSE/TAILWHEEL	44.0	0	44.0	251.06	11046.64
LESS USABLE FUEL	-	-	-	-	-
FIXED BALLAST	-	-	-	-	-
			EMPTY WEIGHT	TOTAL MOMENT	
			1069.0	81525.64	

EMPTY CofG = $\frac{\text{TOTAL MOMENT}}{\text{EMPTY WEIGHT}} = \frac{81525.64}{1069.0} = \underline{76.26}$ Inches *Fwd/Aft of Datum
(Delete as required)

OPTIONAL EQUIPMENT INSTALLED AT TIME OF WEIGHING

(For example: Ballistic parachute, Fire Extinguisher, First Aid Kit etc.)

ITEM	TYPE	WEIGHT	ARM	MOMENT
FIRE EXTINGUISHER	HALIDE	5.0	162.91	764.5

Aircraft Weighed By: J ANYBODY

Scales Calibration Date: 6th SEPT 2008

Supervising LAA Inspector: P.SOMEONE
or Licensed Engineer

Signature: P Someone

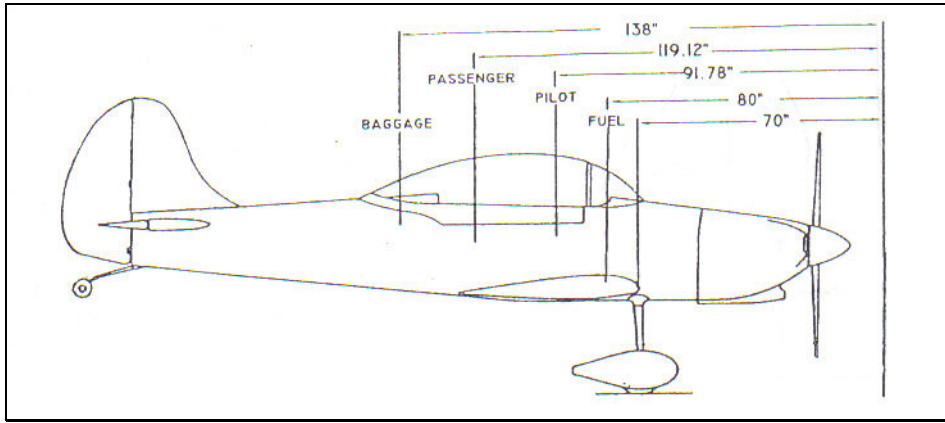
LAA Inspectors Number: LAA 123
or CAA Approval No.

Date of Weighing: 4th JUNE 2009

Next Weighing due: MAY 2019

IT IS MANDATORY THAT MICROLIGHTS ARE RE-WEIGHED AT INTERVALS NOT EXCEEDING 5 YEARS.
IT IS RECOMMENDED THAT GROUP "A" AIRCRAFT ARE RE-WEIGHED AT INTERVALS NOT EXCEEDING 10 YEARS.
AIRCRAFT MUST BE RE-WEIGHED AND A NEW WEIGHT AND BALANCE SHEET SHOULD BE CREATED AFTER SIGNIFICANT MODIFICATION OR AFTER RECOVERING OR PAINTING AND AT INTERVALS TO MONITOR WEIGHT GROWTH.

SAMPLE LOADING EXAMPLES (IMPERIAL)



VARIABLE LOAD ITEMS

ITEM	QTY	WEIGHT (lbs)	ARM (inches)	MOMENT (lb.inches)
PILOT	1	-----	91.78	-----
PASSENGER	1	-----	119.12	-----
PASSENGER	-	-----	-	-----
MAXIMUM FUEL - MAIN TANK	32.25	IMP GALL	232	80.0
MAXIMUM FUEL - Aux. TANK(S)		IMP GALL	-	-
MAXIMUM ALLOWED BAGGAGE	1	50	138.0	6900
MAXIMUM ALLOWED BAGGAGE	-	-	-	-
OTHER	-	-	-	-

WEIGHT AND BALANCE CHANGES IN SERVICE	WEIGHT (lbs)	CG/ARM (inches)	MOMENT (lb.inches)
DATA FROM LAST WEIGHING =	1069.0	76.26	81525.64
CHANGE DUE TO: NEW TAILWHEEL ASSEMBLY	(± wt change) + 3.0	(item CG position) X 251.06	= 753.18
CHANGE DUE TO: REMOVE BATTERY FROM AFT POSITION	(± wt change) - 6.0	(item CG position) X 130.0	= - 780.0
CHANGE DUE TO: ADD HEAVIER BATTERY TO FWD POSITION	(± wt change) + 9.0	(item CG position) X 65.0	= 585.0
REVISED EMPTY WEIGHT =	1075.0	REVISED TOTAL MOMENT =	82083.82

REVISED EMPTY CofG = $\frac{\text{TOTAL MOMENT}}{\text{EMPTY WEIGHT}} = \frac{82083.82}{1075.0} = 76.357$ Inches *Fwd/Aft of Datum (Delete as required)

LOADING EXAMPLES

NOTE: For loading examples to show compliance with CS-VLA or BCAR Section S a pilot weight of between 121lbs and 189lbs, and a passenger weight of 0 to 189lbs must be able to be accommodated with a minimum of 1 hour's fuel. See Guidance on Weight and Balance and example sheets.

ITEM	MOST FORWARD CofG LOADING		
	WEIGHT (lbs)	ARM (inches)	MOMENT (lb.inches)
A/C EMPTY WEIGHT	1075.0	76.36	82083.82
PILOT	121	91.78	11105.38
PASSENGER	0	-	-
BAGGAGE	0	-	-
OTHER	-	-	-
ZERO FUEL TOTALS	1196.0	 	93189.20
ZERO FUEL CG =	MOMENT =	77.92	
	WEIGHT		
FUEL (TO GROSS WEIGHT MAX)	232	80.0	18559.87
TOTALS	1428.0	 	111749.07
LOADED CofG =	MOMENT =	78.26	
	WEIGHT		

ITEM	MOST REARWARD CofG LOADING		
	WEIGHT (lbs)	ARM (inches)	MOMENT (lb.inches)
A/C EMPTY WEIGHT	1075.0	76.36	82083.82
PILOT	189	91.78	17346.42
PASSENGER	189	119.12	22513.68
BAGGAGE	50	138.0	6900
OTHER	-	-	-
ZERO FUEL TOTALS	1503.0	 	128843.92
ZERO FUEL CG =	MOMENT =	85.72	
	WEIGHT		
FUEL (TO GROSS WEIGHT MAX)	232	80.0	18559.87
TOTALS	1735.0	 	147403.79
LOADED CofG =	MOMENT =	84.96	
	WEIGHT		

SIGNATURE *J Anybody*
DATE *4th June 2009*