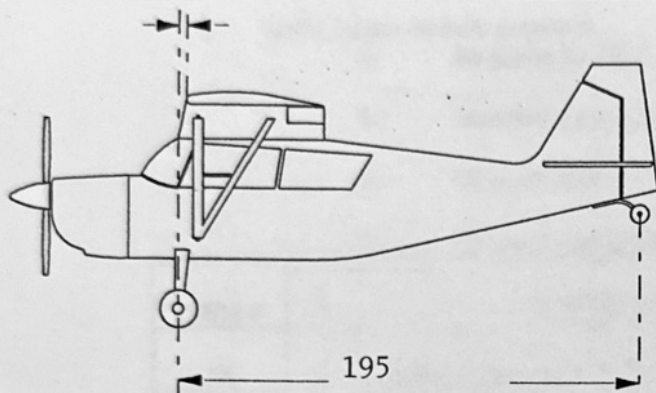


AMERICAN CHAMPION AIRCRAFT CORPORATION
ROCHESTER, WISCONSIN 53167

WEIGHT AND BALANCE WORKSHEET



MODEL NUMBER 7GCAA
SERIAL NUMBER 461-2002
IDENTIFICATION NUMBER N67BE
DATE 03-18-2002
SIGNED _____

Aircraft Leveling Means: Drop plumb line from wing leading edge so that it is 10.18 inches forward of front face fuselage wing strut fitting.

Weight Actual 1224

1. Left Wheel Weight: 568 lbs. Right Wheel Weight: 577 lbs.
2. Tail Wheel Weight 79 lbs.
3. Total Aircraft Weight (Full Oil): 1224 lbs.

$$\text{C.G.} = \frac{(\text{195 in.}) \times (\text{79 lbs.})}{(\text{1224 lbs.})} - (\text{0.06 in.}) = \text{12.53 in Aft L.E.}$$

	WEIGHT (lbs.)	ARM (in.)	MOMENT (in. lbs.)
Aircraft Weight With Full Oil	1224	12.53	15336.72
Subtract Drainable Oil	-15	-36	+540
Add 1 Gallon Unuseable Fuel	+6	+15	+90
TOTALS	1215	XXXXXXXX	15966.72

Aircraft Empty C.G. 13.14 in. aft datum

Useful Load 535 lbs.

Datum: Wing Leading Edge

CENTER OF GRAVITY LIMITS: (+ 14.2 in.) To (+18.2 in.) At 1750 lbs.
NORMAL CATAGORY (+ 10.5 in.) To (+18.2 in.) At 1325 lbs or less

ACROBATIC CATAGORY (+ 14.2 in.) To (+16.3 in.) At 1750 lbs. or less
(+ 10.5 in.) To (+16.3 in.) At 1325 lbs or less

Straight line variation between points given

AMERICAN CHAMPION AIRCRAFT - MODEL 7GCAA

EQUIPMENT LIST

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updated 10/15/14 PS

Suffix letters on item numbers:

R: Required for FAA certification

S: Standard equipment

A: Optional equipment not required

O: Optional equipment replacing standard or required item

ITEM #	X	DESCRIPTION	WT. LB.	ARM IN.
1R	x	Engine, Lycoming O-320-B2B	292.44	-41.22
2R	x	Propeller, Sensenich 74DM6S8-1-56	48.00	-58.58
3R	x	Spinner Installation	3.82	-60.61
4R	x	Oil Cooler	2.95	-29.16
5R	x	Filter—Carburetor Air	0.50	-45.00
6R	x	Tachometer—Recording	0.66	-5.00
7A		Manifold Pressure	1.19	-5.00
8R	x	Altimeter--Sensitive	1.40	-5.00
9R	x	Airspeed Indicator	0.58	-5.00
10A	x	Rate of Climb	0.58	-5.00
11A		Turn and Bank	2.00	-5.00
12A	x	Turn Coordinator	2.00	-5.00
13A		Artificial Horizon	2.19	-5.00
14A		Directional Gyro	2.63	-5.00
15A		Suction Gauge	0.22	-5.00
16A		Vacuum Pump	2.81	-28.31
17A	x	Accelerometer	1.00	-5.00
18R	x	Oil Temperature Gauge	0.57	-5.00
19R	x	Oil Pressure Gauge	0.57	-5.00
20R	x	Ammeter	0.26	-5.00
21A		Engine Hour Meter	0.80	-5.00

updated 10/15/14
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EQUIPMENT LIST

ITEM #	X	DESCRIPTION	WT. LB.	ARM IN.
22A		Quartz Clock	0.22	-5.00
23A		Outside Air Temperature Gauge	0.17	6.00
24R		Compass, Airpath	0.77	-4.00
25A	x	Compass, Vertical Card	0.77	-4.00
26A		Cylinder Head Temperature Gauge	1.29	-5.00
27A		Carburetor Air Temperature Gauge	0.80	-5.00
28A		Exhaust Gas Temperature Gauge	0.50	-5.00
29A	x	Smartscan SR-8	1.20	-5.00
30A		EAC-1-CHT/OAT/EGT	0.90	-5.00
31R	x	Stall Warning	0.85	-1.74
32O	x	Starter—Skytech	9.00	-46.44
33R	x	Alternator—Electro Systems	10.63	-50.36
34R	x	Voltage Regulator	0.65	86.00
35R	x	Battery—RG25 Concorde	30.81	86.00
36R	x	Cabin Light	0.57	24.00
37R	x	Tail Light	0.41	200.80
38R	x	Landing Light	0.47	-54.32
39A	x	Wing Tip Strobe	4.25	-2.00
40R	x	Position Lights-Wing	4.25	-2.00
41R	x	Brake Cylinder Cleveland 10-54 (toe)	1.00	-21.38
42R	x	Wheel & Brake, Cleveland 40-28 30-19a (both sides)	25.78	-0.93
43R	x	Tire & Tube 600x6, Type III 4 or 6 Ply (both sides)	37.50	0.25
44R	x	Tailwheel—Scott 3200	8.25	195.50
45A	x	Wheel Pants (Cleveland Wheels)	10.00	2.00
46R	x	Seat Installation Front--Adjustable	15.63	16.00

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EQUIPMENT LIST

ITEM #	X	DESCRIPTION	WT. LB.	ARM IN.
47R		Seat Installation Rear	13.63	47.00
48O	x	Seat Installation Rear--Wide	18.44	47.00
49A		Rear Seat Heater	2.25	-9.00
50R	x	Hooker Harness Front	2.81	20.00
51R	x	Hooker Harness Rear	2.81	60.00
52S	x	Cargo Net	1.00	60.00
53A	x	Cabin Speaker	1.36	33.00
54S	x	Microphone Telex TEL-66T Front	0.38	9.00
55A		Glider Tow	4.00	111.00
56A	x	Landing Gear Step L/R	1.50	1.00
57A		Fire Extinguisher	5.38	-5.30
58A		Seaplane Corrosion Proofing	5.00	92.00
59A		Seaplane Package (lifting rings & vertical fins)	7.88	123.10
60A	x	Remote Oil filter--Airwolf	5.00	-24.50
61A	x	Aileron Spades	2.25	46.00
62A	x	Speed Fairings	1.00	10.18
63A		External Battery Charger	0.25	-23.40
64A		Power Receptacle	0.25	-3.00
65A	x	Greenhouse Roof	3.00	24.00
66A		Tanis Heater	1.06	-41.22
67A	x	Antenna, Transponder	0.50	-3.00
68A	x	Antenna, Broad Band (com #1)	0.50	92.00
69A		Antenna, Broad Band (2 nd com)	0.50	64.00
70A		Antenna, Nav Meriden OD-1	1.19	101.00
71A	x	Antenna, GPS	0.50	7.50

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EQUIPMENT LIST

ITEM #	X	DESCRIPTION	WT. LB.	ARM IN.
72A		Antenna, Marker Beacon	0.50	-3.00
73A	x	Encoder—Ameriking AK 350	0.80	-5.00
74R	x	ELT—Ameriking AK 450	3.30	68.38
75A		Power Converter—Ameriking AK550-6	2.30	-24.00
76A		Flitecom 403 Intercom	1.90	-5.00
77A	x	PSE 1000II Intercom	1.90	-5.00
78A		PSE PM 6000 Audio Panel	1.90	-5.00
79A		Intervox Nat Intercom	1.90	-5.00
80A		King KX 155 Nav/Com	5.30	-5.00
81A		King KY 97A Com	2.82	-5.00
82A		King KT 76A Transponder	3.25	-5.00
83A		King KLX 135A GPS/Com	5.00	-5.00
84A		King KI 208 Nav Head	1.00	-5.00
85A		King KI 209 Nav Head	1.00	-5.00
86A		Garmin GTX327 Transponder	2.28	-5.00
87A		Garmin GNC 250XL GPS/Com	3.18	-5.00
88A		Garmin GNS 430 GPS/Com/Nav	4.00	-5.00
89A		Garmin GI 106A Nav Head	1.00	-5.00
90A		Garmin GMA 340	1.50	-5.00
91A		F200 Icebox Cooling Fan	1.20	-24.40
92A	x	APOLLA GX-65 GPS\COM	3.1	-5.00
93A	X	APOLLO SL-70 TRANSPONDER	2.64	-5.00
94A	X	Baggage Door	5.50	75.00