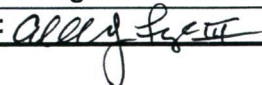


Blairstown AVIATION



36 Lambert Rd, Blairstown NJ 07825 • 908-362-0104

EQUIPMENT CHANGE - WEIGHT & BALANCE

REG. NO.	MODEL	Serial No.	
N1500N	J3C	23031	
Items: (Description / P/N / S/N)	Weight Pounds	Arm Inches	Moments Inch/Pounds
Previous Aircraft Empty Weight:	788	60.87	47962
Remove Sensenich M74CK (metal prop)	-21	-53	1113
Install Sensenich W74CK-42 AK6476 with hub flange TCDS A-691 p10 of 12	10	-51	-510
Totals	777		48565
A. Old Empty Weight		788 Pounds	
B. Old Empty CG		60.87 Inches	
C. Old Empty Weight CG Moment		47962 Inch/Pounds	
D. Max Gross Weight		1220 Pounds	
E. Old Useful Load		432 Pounds	
A. New Empty Weight		777 Pounds	
B. New Empty CG		62.50322 Inches	
C. New Empty Weight CG Moment		48565 Inch/Pounds	
D. Max Gross Weight		1220 Pounds	
E. New Useful Load		443 Pounds	
This new weight & balance information supersedes all previous weight and balance data.			
For aircraft loading, see instructions in Weight & Balance Section of Aircraft Flight Manual.			
FAA Form 337 Completed?	Y	N	
Equipment List Amended?	Y	N	
By: Albert J Fuge III IA 3335869	Date:	6-10-2016	
Signature: 			

ACTUAL WEIGHTS AND BALANCE

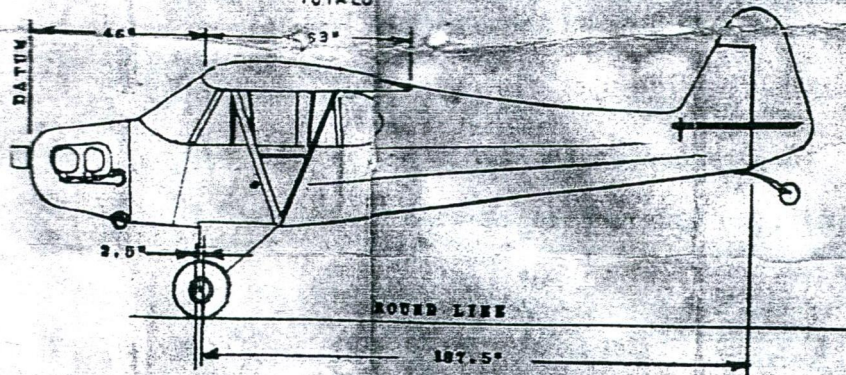
MODEL J3C

Serial No. 23031

NC 1500N

EMPTY WEIGHT "As Weighed"

	Scale Reading	Tare	Net
Left Wheel	323	---	323
Right Wheel	329	---	329
Tail Post	62½	14½	48
TOTALS			700



C. G. Empty "As Weighed" is aft of Wheel C.L. = $\frac{187.5 \times 48}{700} = 12.9"$

Distance from Datum to Wheel C.L. = $46 + .5 = 46.5"$

C. G. Empty "As Weighed" is aft of Datum = $46.5 + 12.9 = 59.4"$

	WEIGHT	ARM	M-MOM.	WEIGHT	ARM	M-MOM.
Empty Weight "As Weighed"	700	61.4	43000	700	61.4	43000
Oil (1 Gallon)	8	17	136	8	17	136
Fuel (12 Gallons)	72	28	2016			
Fuel (4.17 Gallons)				25	28	700
Pilot (Front Seat)	180	55	10450			
Pilot & Chute (Rear Seat)				190	82	15580
Baggage				20	95	1900
TOTAL	970	57.3	55602	943	65.0	61316

Most Forward C.G. Location = 11.3" Aft of wing L. E.

Approved Most Forward C.G. Limit = 10.6" aft of Wing L.E.

Most Rearward C.G. Location = 19.0" Aft of wing L. E.

Approved Most Rearward C.G. Limit = 22.7" aft of Wing L.E.

Approved By: [Signature]
Weight & Balance Engineer

PIPER AIRCRAFT CORPORATION

PONCA CITY, OKLAHOMA

Date February 17, 1947

IV. - Model J3C-65, L-4H, L-4J (cont'd)

<u>Engine</u>	Continental A-65-1 (See Item 311C for optional engines)
<u>Fuel</u>	73 minimum octane aviation gasoline
<u>Engine limits</u>	For all operations, 2350 r.p.m. (65 hp)
<u>Airspeed Limits (CAS)</u>	Level flight or climb 90 mph (78 knots) Glide or dive 122 mph (106 knots)
<u>Propeller Limits</u>	Static r.p.m. at maximum permissible throttle setting (No additional tolerance permitted): (a) With A-65-1 engine: Not over 2300, not under 1900. (b) With optional engines (Item 311C) and propeller items 2 or 101: Not over 2300, not under 1950. Diameter: Not over 81 inches, not under 69.7 inches (with fixed pitch wood propeller). Not over 74 inches, not under 72 inches (with propeller item 2).
<u>C. G. Range</u>	(+10.6) to (-22.7) See NOTE 3 for restricted limits on certain Serial Nos. below 4500
<u>Empty Weight C. G. Range</u>	If placard "Solo flying in rear seat only" is installed (See NOTE 2): (+8.5) to (-20.3) When empty weight C. G. falls within range given, computation of critical fore and aft C. G. positions is unnecessary. Range is not valid for non-standard arrangements.
<u>Maximum Weight</u>	Serial Nos. 7842, 7845 through 7883, and 7912 and up are eligible for 1170 lb. maximum weight. These airplanes are also eligible for 1220 lb. maximum weight provided the landing gear is revised in accordance with Piper Dwgs. 31472 and 31423. Serial Nos. prior to 7912, and not listed above, are eligible for 1100 lb. maximum weight. These airplanes are also eligible for 1170 lb. maximum weight provided the lift struts and attachments are revised in accordance with Piper Dwgs. No. 12352, 13233 and 21642 and for further increase to 1220 lb. upon revision of the landing gear in accordance with Piper Dwgs. No. 31472 and 31423. Serial Nos. 10339 and up and 2356-A and up of Model J3C-65 eligible for 1220 lb. maximum weight.
<u>Number of Seats</u>	2 (one at +9 and one at +36)
<u>Maximum Baggage</u>	20 lb. (+49)
<u>Fuel Capacity</u>	12 gallons (-18)
<u>Oil Capacity</u>	1 gallon (-29)
<u>Control Surface Movements</u>	Elevator 34° Up 29° Down Rudder 30° Left 30° Right Aileron 18° Up 18° Down Stabilizer 2.5° Up 4° Down
<u>Serial Numbers Eligible</u>	2325, 2327, 2339, 2340, 2342, 2344, 2345, 2347, 2349, 2351, 2355 and up; 2356-A and up; and 8277-1 through 8277-40.
<u>Required Equipment</u>	In addition to the pertinent required basic equipment specified in CAR 4a, the following items of equipment must be installed: Items 101, 102, 103 and 104(a).