

Republic Seabee

Model RC-3

Serial Number 615

N6386K

Lycoming GO-480-G2D6

Serial Number L-1510-34

Weight and Balance

**BOSHART ENTERPRISES**

AND AIRCRAFT SERVICES, INC.

F.A.A. CRS # B2ER144J

GENESEE COUNTY AIRPORT

BATAVIA, NY 14020

(585) 344-1749

(585) 344-4192

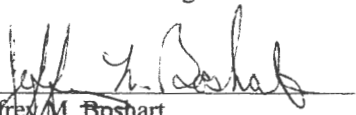
WEIGHT AND BALANCE**DATED: 7/17/02****PREPARED FOR: N6386K**

<u>ITEM</u>	<u>WEIGHT</u>	<u>ARM</u>	<u>MOMENT</u>
NOSE	610	238.0	145180
LEFT MAIN	1080	88.0	95040
RIGHT MAIN	1033	88.0	90904
SUBTOTAL	2723		
LESS USEABLE FUEL -186		116.0	-21576

NEW EMPTY WEIGHT C.G. AND MOMENT 122.0 IN 309548 IN/LB**GROSS WEIGHT..... 3150 LBS.****EMPTY WEIGHT..... 2537 LBS****USEFUEL LOAD..... 613 LBS.**

This aircraft was weighed using calibrated electronic scales, calibration date 6/02.

The aircraft was weighed full of fuel with all seats in



Jeffrey M. Boshart
Certified Repair Station #B2ER144J

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17 July, 2002

Owner Bardin G. William
Address 2203 Redman Road
 Brockport, N.Y. 14420

MANUFACTURER	MODEL	SERIAL #		REG#
Republic	RC-3	615		USA N6386K
	DATED	WEIGHT	ARM	MOMENT
Previous Weight & Balance				
EQUIPMENT REMOVED				
Narco UGR-2 Glideslope Rsvr				
Narco T-24 Power/Audio Unit				
TKM MS-12 Nav/Com				
King KA134 Audio Panel				
Narco VOA-9 CDI				
Naarco CLC60 RNAV				
Sigtronics SPO-20 Intercom				
EQUIPMENT LIST				
King KY196 Comm		3.2	34.0	
Garmin GNC300XL GPS/Com		2.55	37.5	
Garmin GI-102A CDI		1.4	38.2	
PS Engineering PMA7000S Audio Panel		1.5	37.0	
Eaton 155XL Annunciators		-.65	39	
Astron 2412-12 Converter		3.6	20.0	
King KT76A Transponder		5.1	34.0	
TOTALS				

GROSS WEIGHT =
EMPTY WEIGHT =
EMPTY WEIGHT C.G. =
USEFUL LOAD =

REPAIR STATION # B2ER144J

X

EQUIPMENT LIST
REPUBLIC RC-3 SEABEE

ITEM	Spec.769-1 DESCRIPTION	POUNDS	STATION
1a Propeller	Hartzell Controllable, Reversible HC-D2MV20-3	72	178.0
2 Engine	Aircooled motors 6A8B9F	426	139.1
101 Fuel Pumps(2)	A.C. Spark Plug Corp.	4.2	148.0
102 Oil Cooler	U6130 Copper Oil Cooler	12.5	139.8
103 Air-Oil Separator	D'shannon Aviation	2.0	157.0

LANDING GEAR - MAIN

200	Wheels & Brakes	Goodrich 6056 or 605AD		
	Tire (2)	Goodyear 7.00 x 8 6pr	51.6	93.3

LANDING GEAR - AUX

	Goodyear Model PD-173 Tail Wheel with 4-ply Channel Tread Tire	6.8	241.4
300	Battery (2) Concord G-25	52.0	13.7
301	Alternator & Regulator Internav 60 Amp.	11.0	125.0
302	Geared Starter Tilton	10.5	128.3
304	Cross Country Instrument Panel	2.4	40.0
305a	Radio King KX170B	9.8	35.3
305b	Transponder King KT-76	2.0	35.3
305c	Lake & Air Gear Advisory System	1.0	35.3
306a	Landing Light	3.0	102.0

306b	Strobe Light	3.0	30.0
306c	ELT Pointer Model 3000	2.0	100.0

ITEM	DESCRIPTION	POUNDS	STATION
306d	Engine Analyser		
	Electronics International	1.0	40.0
400	Anchor & Line	8.5	40.0
402	Fire Extinguisher	7.2	66.5

2 elect trim

4 bilge pumps

wing tips 20.5 lbs ea

electro/hydro pump

pitot tube

6" chevrolet wheels & breaks minus w/ 8.00 x 6 ^{Michan}
x 8 ply

steerable tail wheel

4.5" tail wheel

canister oil filter

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WEIGHT & BALANCE

OCT 3 1961

REPUBLIC SEABEE ***** SERIAL NO 615 ***** N 6386 K

FIGURES COMPUTED FROM REPORT DATED, JULY 31, 1959. WEIGHT & BALANCE
SUBMITTED FOR ORIGINAL CERTIFICATION.

ITEM	WEIGHT	ARM	MOMENT
AIRCRAFT EMPTY WEIGHT.	2191	121.29	265.748
NON-STEERABLE TAIL WHEEL TOTAL WEIGHT.	38.5	225.6	8,658
STEERABLE TAIL WHEEL TOTAL WEIGHT.	41.9	235.73	9,877
OIL COOLER WEIGHT INCREASE.	3.0	137.	411
ADDITIONAL BALLAST.	7.0	4.5	32
	<u>2204.4</u>	<u>121.31</u>	<u>257,410.0</u>

COMPUTED MOST REARWARD C.G. EFFECTED (ONLY)

ITEM	WEIGHT	ARM	MOMENT
AIRPLANE EMPTY WEIGHT.	2204.4	121.31	267,410.
PILOT	170	62	10,540.
OIL	22.5	136	3,060.
MIN. FUEL.	107.5	116	12,470.
LANDING GEAR RETRACTED DIFFERENCE.			<u>2,900.</u>
	<u>2,504.4</u>	<u>118.3</u>	<u>296,380.</u>

MOST REARWARD C.G. RANGE 118.3

NOTE: THE WEIGHT OF THE APPROVED LIFE PRESERVERS REQUIRED FOR WATER WORK
TO BE INCLUDED IN THE USEFUL LOAD.

***** END*****



WEIGHT AND BALANCE REPORT

MAKE	MODEL	SERIAL NUMBER	REGISTRATION AND CLASSIFICATION	DATE OF REVISION
REPUBLIC	RG-3	615	N 6386 K	7/31/59

DATUM USED:

LEVELING MEANS

WEIGHTS USED ARE: ACTUAL YES COMPUTED YES STANDARD WEIGHT . 3150

(A) EMPTY WEIGHT AND ECG COMPUTATIONS

LIQUID CONTAINERS

WEIGHT POINT	SCALE READING	TARE	NET WEIGHT	
RIGHT				HYDRAULIC - FULL - EMPTY
LEFT				FUEL - FULL - EMPTY
NOSE				UNUSABLE
TOTAL				COOLANT RADIATOR
				FULL EMPTY
				OIL - FULL - RESIDUAL

ARM OF RIGHT WEIGHT POINT (MAIN WHEEL) EMPTY WEIGHT AND E.C.G. CARRIED FORWARD

ARM OF LEFT WEIGHT POINT - (MAIN WHEEL) FROM LAST WEIGHT AND BALANCE REPORT.

ARM OF NOSE OR TAIL WEIGHT POINT (NOSE OR TAIL WHEEL)

DISTANCE BETWEEN WEIGHT POINTS (WHEEL BASE)

NOSE OR TAIL WEIGHT X WHEEL BASE ÷ TOTAL NET WEIGHT = ECG, FROM MAIN WEIGHT POINTS

ECG, FROM MAIN WEIGHT POINTS =
ARM OF MAIN WEIGHT POINTS =
ECG FROM DATUM LINE E.C.G.

(B) COMPUTING NEW ECG, AND EMPTY WEIGHT FOR EQUIPMENT CHANGES

EQUIPMENT LIST	WEIGHT	ARM	MOMENT
1 AIRPLANE	2030	120.20	260122.
2 REMOVING OIL			
3 Add ballast	52	4.5	234.
4 Add back seat	40	96	3840.
5 Add door upholstery	8	62	496.
6 Add cabin "	11	96	1056.
7			
8			
9			
10			
TOTAL	2191		265748.

NEW EMPTY WEIGHT 2191 NEW ECG. 121.29

ECG RANGE NONE TO

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(c) LOADING CONDITIONS

FORWARD, EXTREME WEIGHT & BALANCE

ITEM	WEIGHT	ARM	MOMENT
PLANE EMPTY	2191	121.29	265718
PILOT	170	62	10540
CREW MEMBER			
OIL	22.5	136	3060
FUEL	107.5	116	12470
PASSENGER	170	62	10540
PASSENGER	340	96	32640
BAGGAGE	RETRACTED GEAR DIFFERENCE		2900
TOTAL	3001	222.595	337698

CG = TOTAL MOMENT ÷ WEIGHT

APPROVED FORWARD EXTREME 111.5 H.P. 215

CONDITION: AIRWORTHY ☒ UNAIRWORTHY ☐ WEIGHT ☒ BALANCE ☒

REARWARD EXTREME WEIGHT & BALANCE CHECK

ITEM	WEIGHT	ARM	MOMENT
PLANE EMPTY	2191	121.29	265718
PILOT	170	62	10540
CREW MEMBER			
CREW MEMBER			
OIL	22.5	136	3060
FUEL	107.5	116	12470
PASSENGER			
PASSENGER	RETRACTED GEAR DIFFERENCE		2900
BAGGAGE			
TOTAL	2491	118.3	294718

CG = TOTAL MOMENT ÷ TOTAL WEIGHT

APPROVED REARWARD EXTREME 118.3

CONDITION: AIRWORTHY ☒ UNAIRWORTHY ☐ WEIGHT ☒ BALANCE ☒

GROSS WEIGHT CHECK

AIRCRAFT EMPTY	2191 2191
CREW	170
FUEL	450
OIL	22.5
PASSENGERS	510
BAGGAGE	200
TOTAL	3543.5

MAXIMUM APPROVED WEIGHT 3150#LBS

CONDITION CHECK

AIRWORTHY ☒
UNAIRWORTHY ☐

393.5 # lbs. overweight

See attached loading schedule.

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LOADING SCHEDULES

1

ITEM	WEIGHT	ARM	MOMENT
AIRCRAFT EMPTY	2191	121.29	265748
PILOT	170	62	10540
CREW			
OIL	22.5	136	3060
FUEL	256.5	116	29754
	GEAR RETRACTION DIFFERENCE		2900
PASSENGER	170	62	10540
PASSENGER	340	96	32640
TOTAL	3150		355182

CG---(112.7)

LOADING SCHEDULES

2

ITEM	WEIGHT	ARM	MOMENT
AIRCRAFT EMPTY	2191	121.29	265748
PILOT	170	62	10540
CREW			
OIL	22.5	136	3060
FUEL	350	116	40600
BAGGAGE	76.5	118	9027
	GEAR RETRACTION MOMENT		2900
PASSENGER	340	96	32640
TOTAL	3150		364515

CG---(115.7)

LOADING SCHEDULES

3

ITEM	WEIGHT	ARM	MOMENT
AIRCRAFT EMPTY	2191	121.29	265748
PILOT	170	62	10540
CREW			
OIL	22.5	136	3060
FUEL	400	116	46400
BAGGAGE	186.5	118	22007
PASSENGER	170	62	10540
	Gear Retraction Difference		2900
TOTAL	3150		362275

CG---(115.0)

LOADING SCHEDULE SUPPLY

THIS SUMMARY INCLUDES CREW AND CAPACITY OIL

PURCH. IN GALLONS	NUMBER OF PASSENGERS	POUNDS OF BAGGAGE
43	3	0
59	2 (1F & 1B)	76.5
75	1	147
75	NONE	0
71	2 (1F & 1B)	NONE

ENTER ALL ITEMS INCLUDED IN EMPTY WEIGHT, REQUIRED OR OPTIONAL
ITEM NUMBER

[illegible]

SPECIAL EQUIPMENT

[illegible]

DATE: 7/31/59 SIGNATURE:

CERTIFICATE NUMBER AND RATINGS:

John J. Piccione
A.P. 1311938