

JUN 1 1959

U. S. DEPARTMENT OF COMMERCE
CIVIL AERONAUTICS ADMINISTRATION

Form approved.
Budget Bureau No. 41-R0524.

MAJOR REPAIR AND ALTERATION FORM (AIRFRAME, POWERPLANT, PROPELLER OR APPLIANCE)

1. AIRCRAFT	MAKE Republic SeaBee	MODEL HC-3	SERIAL NO. 97	NATIONALITY AND REGISTRATION MARK USA N 87537
2. OWNER	NAME (First, middle, last) Roland A. Redner		ADDRESS (Street and number, city, zone and State) 2510 Le Roy Lane Orchard Lake, Michigan	

3. COMPLETE ONLY FOR UNIT REPAIRED AND/OR ALTERED. DESCRIBE WORK ACCOMPLISHED ON REVERSE IN ACCORDANCE WITH CIVIL AERONAUTICS MANUAL 18.

UNIT	MAKE	MODEL	SERIAL NO.	NATURE OF WORK (Check)	
				MAJOR REPAIR	MAJOR ALTERATION
a. AIRFRAME	***** (As described in item 1 above) *****				
b. POWERPLANT					
c. PROPELLER	Hartzell	HD-12 x 20 -3E	Hub P-526		XXI
d. APPLIANCE	TYPE AND MANUFACTURER				

AIRCRAFT WEIGHT AND BALANCE DATA. This item must be completed by repair or alteration agency. However, in the case of a spare component, it will not be completed until such component is installed in an aircraft. At this time, it will be completed by the installing agency, if applicable.

CATEGORY	EMPTY WEIGHT (Pounds)*	EMPTY CENTER OF GRAVITY (Inches from datum)*	USEFUL LOAD (Pounds)*
Normal & Utility	2100.7	121.29	N 950.3 U 610.3

5. CONFORMITY STATEMENT (Complete and check)

a. AGENCY'S NAME AND ADDRESS John Hudolin	b. KIND OF AGENCY <input checked="" type="checkbox"/> U. S. Certificated Mechanic. <input type="checkbox"/> Foreign Certificated Mechanic. <input type="checkbox"/> Certificated Repair Station. <input type="checkbox"/> Manufacturer. <input type="checkbox"/> (Check if repair or alteration was made under delegation option procedures.)	c. CERTIFICATE NO. A&P 11975
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I certify that the repair and/or alteration made to the unit(s) identified under item 3 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 18 of the U. S. Civil Air Regulations and that the information furnished herein is true and correct to the best of my knowledge.

May 29, 1959

(Date repair and/or alteration completed)

John Hudolin

(Signature of authorized individual)

6. APPROVAL FOR RETURN TO SERVICE (Check and complete appropriate items)

Pursuant to the authority specified below the unit identified in item 3 was inspected in the manner prescribed by the Administrator and is

APPROVED } BY { CAA Designee Manufacturer Canadian Department of Transport Inspector of Aircraft
 REJECTED } CAA Aviation Safety Agent Repair Station Other (Specify) **Inspection Authorization.**

May 29, 1959

(Date of approval or rejection)

John Hudolin

(Signature of authorized individual; title or identification number)

7. TO BE COMPLETED ONLY BY CAA PERSONNEL

a. Forwarded for engineering comment See attached memorandum
b. Accepted **June 1-1959** (Date) Reinspected (Date) Spot Checked (Date)

(CAA designation number)

Robert J. Rooster
(Signature Aviation Safety Agent)

**Reg. 3 KB
ASDO 5**

69-8

INSTRUCTIONS

This form must be completed in duplicate each time a major repair and/or alteration is made of an aircraft, airframe, power-plant, propeller or appliance. After the repair and/or alteration has been inspected and item 6 completed, the original copy of this form will be made available to the aircraft owner for retention as part of the aircraft records. The duplicate copy is retained by the CAA for administrative purposes.

See CAM 18 for detailed instructions concerning the information to be furnished with this form and instructions concerning its preparation.

8. DESCRIPTION OF WORK ACCOMPLISHED.*

Installation Of; HC 12 X 20-3E Propeller.

Replacement Of; HC 12 X 20-2E Propeller.

Model HC 12 X 20 -3E Propeller has metal blades, Weight of both propellers are the same. But at a previous date Engine was changed from a 6A8-215-98F (small cylinder) to a 6A8-215-89F of which there is an increase of 3 lbs. to airplane empty weight.

Removed Item 1.a HC 12 X 20 -2E

Added Item 1.b HC 12 X 20 -3E propeller.

	<u>Weight</u>	<u>Arm</u>	<u>Moment</u>
Airplane.	2,196.7	121.22	266,285.6
Added	3.	178	534
	<u>2,199.7</u>		<u>266,819.6</u>
	<u>266,819.6</u>	<u>121.29</u>	
	2,199.7		

When engine 6A8-215-89F was installed the large hydraulic cylinder came on engine of which the serial NO is 23780. The large Diameter cylinder was standard, but additional weight of 3 lbs. must be considered. Both propeller weights are the same. New weight sheet attached.

*If additional space is needed attach additional sheets bearing aircraft nationality and registration mark and date work completed.

Check block if additional sheets are attached.

6-9-9

NORMAL CATEGORY

	Most forward C.G.			Most Aft C.G.		
	Weight	Arm	Moment	Weight	Arm	Moment
Weight Empty	2199.7	121.29	266,819.6	2199.7	121.29	266,819.6
Pilot	170.0	62.0	10,540	170.0	62.0	10,540
Passenger-Front	170.0	62.0	10,540			
Passenger-Rear (2)	340.0	96.0	32,640			
Oil	22.1	136.0	3,006	22.1	136.0	3,006
Fuel-Min. 17.9 gal.	107.4	116.0	12,458	107.4	116.0	12,458
Wheels up Diff.						2,820
Total	3,009.2	111.65	336,003.6	2,499.2	118.29	295,643.6

Approved Forward C.G. Limit -- 111.5 Inches Aft of Datum

Approved Aft C.G. Limit -- 118.3 Inches Aft of Datum

UTILITY CATEGORY

	Most Forward C.G.			Most Aft C.G.		
	Weight	Arm	Moment	Weight	Arm	Moment
Weight Empty	2,199.7	121.29	266,819.6	2199.7	121.29	266,819.6
Pilot & Chute	190.0	62.0	11,780	190.0	62.0	11,780
Pass. & Chute-Front	190.0	62.0	11,780			
Oil	22.1	136.0	3,006	22.1	136.0	3,006
Fuel-Min. 17.9 gal.	107.4	116.0	12,458	107.4	116.0	12,458
Wheels up Diff.						2,820
Total	2,709.2	112.89	305,843.6	2,519.2	117.84	296,883.6

Approved Forward C.G. Limit -- 111.5 Inches Aft of Datum

Approved Aft C.G. Limit -- 118.3 Inches Aft of Datum

This sheet must be attached to ACA-337 dated May 29, 1959.

Republic SeaBee RC-3 Serial NO.97. Registration N 87537

69-10