

DEPARTMENT OF TRANSPORTATION  
 FEDERAL AVIATION ADMINISTRATION

Form Approved  
 Budget Bureau No. 04-R060.1

**MAJOR REPAIR AND ALTERATION**  
 (Airframe, Powerplant, Propeller, or Appliance)

FOR FAA USE ONLY  
 OFFICE IDENTIFICATION STA FSDO  
 3-0-62

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.

|             |   |   |
|-------------|---|---|
| 1. AIRCRAFT | MAKE<br><b>Republic Seabee</b>  | MODEL<br><b>BC-3</b>  |
|             | SERIAL NO.<br><b>97</b>   | NATIONALITY AND REGISTRATION MARK<br><b>U.S.A. N87537</b>                   |
| 2. OWNER    | NAME (As shown on registration certificate)<br><b>Ploeger, Raymond L.</b> | ADDRESS (As shown on registration certificate)<br><b>1714 Richcreek Rd.</b> |
|             | <b>Ploeger, Martha S.</b>   | <b>Austin, Texas 78757</b>  |

3. FOR FAA USE ONLY  
 This section identified herein complies with applicable airworthiness requirements and is approved only for the above described aircraft subject to conformity inspection by a person authorized in FAR 43.7.

(Data) - Gen'l Maintenance Insp.

| 4. UNIT IDENTIFICATION |  |                    |              | 5. TYPE  |            |  |
|------------------------|--|--------------------|--------------|----------|------------|--|
| UNIT                   | MAKE                                       | MODEL              | SERIAL NO.   | REPAIR   | ALTERATION |  |
| AIRFRAME               | ***** (As described in item 1 above) ***** |                    |              |          |            |  |
| POWERPLANT             | <b>Franklin</b>                            | <b>6AB-215-B9P</b> | <b>23780</b> | <b>X</b> | <b>X</b>   |  |
| PROPELLER              |  |                    |              |          |            |  |
| APPLIANCE              | TYPE                                       |                    |              |          |            |  |
|                        | MANUFACTURER                               |                    |              |          |            |  |

6. CONFORMITY STATEMENT

|  |  |   |
|--|--|---|
| A. AGENCY'S NAME AND ADDRESS<br><b>Raymond L. Ploeger<br/>1333 Schulte Rd.<br/>Creve Coeur, MO 63141</b> | B. KIND OF AGENCY<br><input checked="" type="checkbox"/> U.S. CERTIFICATED MECHANIC<br><input type="checkbox"/> FOREIGN CERTIFICATED MECHANIC<br><input type="checkbox"/> CERTIFICATED REPAIR STATION<br><input type="checkbox"/> MANUFACTURER | C. CERTIFICATE NO.<br><b>A&amp;P<br/>#2260855</b> |
|--|--|---|

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

|                              |  |
|------------------------------|--|
| DATE<br><b>Dec. 15, 1976</b> | SIGNATURE OF AUTHORIZED INDIVIDUAL<br><i>R. L. Ploeger</i> |
|------------------------------|--|

7. APPROVAL FOR RETURN TO SERVICE

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is  APPROVED  REJECTED

|    |  |                |  |                 |
|----|--|----------------|--|-----------------|
| BY | <input checked="" type="checkbox"/> FAA FLT. STANDARDS INSPECTOR | MANUFACTURER   | INSPECTION AUTHORIZATION                               | OTHER (Specify) |
|    | <input type="checkbox"/> FAA DESIGNEE                            | REPAIR STATION | CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT |                 |

|  |   |   |
|--|---|---|
| DATE OF APPROVAL OR REJECTION<br><b>6-7-77</b> | CERTIFICATE OR DESIGNATION NO.<br><b>3-0-62</b> | SIGNATURE OF AUTHORIZED INDIVIDUAL<br><i>R. D. Labman</i> |
|--|---|---|



**NOTICE**

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

**B. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)**

Repaired cracked aluminum prop shaft housing by heliarc welding in area of tach mounting pad and milling to shape, dye penetrant check for cracks. O.K. Added Fram HPK 2 oil filter adaptor (automotive) and HPI filter (automotive); see attached sketch for bracket. Filter and bracket installed above case parting line between generator and starter. One AN 844-10D and AN842-10D fitting on adaptor Mil-H-6000-2075-5/8" hose and AN737TW type clamps used. Chrome oil control rings with spring backing obtained from Heinley Engines (former Franklin field service rep.) installed per Mr. Heinley's instructions i.e. spring toward combustion chamber; Bendix blue shielded ignition wires; distributor and coil covers installed Champion REL 38B shielded spark plugs installed.

NOTE: Two (2) spark plug copper crushwashers under each plug required for proper insertion depth. Bronze exhaust valve guides installed all cyls. Oil drain routed to right wing root fairing ahead of gas collector. Two AN842-14D elbows, Mil-H-6000 hose and stainless coupling with attachment flange welded in place used. Oil cooler cleaned, soldered and pressure tested. O.K. Oil temperature sensor moved to outlet of cooler; adaptor inserted in line to accommodate new sensor. Sensor similar to MS28034 but with pipe thread mounting; electrically identical. Crankshaft ground -.020 mains, -.010 rods, magnifluted nitrided and polished. Installed hand fabricated cylinder head temperature thermocouple (cyl. #6) iron/constant.

ALL WORK IN ACCORDANCE WITH AC43.13-1A WEIGHT AND BAL UPDATED TO AGREE.

-END-

ADDITIONAL SHEETS ARE ATTACHED