

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

FOR FAA USE ONLY
OFFICE IDENTIFICATION

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	CESSNA	MODEL	A185F
	SERIAL NO.	18502213	NATIONALITY AND REGISTRATION MARK	N3946Q
2. OWNER	NAME (As shown on registration certificate)		ADDRESS (As shown on registration certificate)	
	PAUL MENNEN		1452 OWEN SOUND DR. SUNNYVALE, CA. 94087	

3. FOR FAA USE ONLY

4. UNIT IDENTIFICATION				5. TYPE	
UNIT	MAKE	MODEL	SERIAL NO.	REPAIR	ALTERATION
AIRFRAME	***** (As described in item 1 above) *****				X
POWERPLANT					
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				

6. CONFORMITY STATEMENT

A. AGENCY'S NAME AND ADDRESS	B. KIND OF AGENCY	C. CERTIFICATE NO.
VERN MILLER AVIATION 208 FORD RD. SP.#254 ONE JOSE, CA 95138	<input checked="" type="checkbox"/> U.S. CERTIFICATED MECHANIC	1938774
	<input type="checkbox"/> FOREIGN CERTIFICATED MECHANIC	
	<input type="checkbox"/> CERTIFICATED REPAIR STATION	
	<input type="checkbox"/> MANUFACTURER	

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	SIGNATURE OF AUTHORIZED INDIVIDUAL
11-4-89	Vern R Miller

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	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	<input checked="" type="checkbox"/> INSPECTION AUTHORIZATION	OTHER (Specify)
	FAA DESIGNEE	REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT	
DATE OF APPROVAL OR REJECTION	CERTIFICATE OR DESIGNATION NO.	SIGNATURE OF AUTHORIZED INDIVIDUAL		
11-4-89	1938774	Vern R Miller		

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.

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

Installed Brackett BA8110 air filter assembly in accordance with STC SA 716L.

Installed TSO Shoulder Harness and BAS, Inc. Harness System in accordance with STC SA 2067 NM.

Weight and balance and equipment list revised.

ADDITIONAL SHEETS ARE ATTACHED

United States of America
Department of Transportation — Federal Aviation Administration
Supplemental Type Certificate

Number SA71GL

This certificate, issued to Brackett Aircraft Company, Inc.

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part Specified under certification basis on the applicable Data Sheets or Aircraft Specifications.
Regulations.

Original Product — Type Certificate Number:

Make: AS shown on Approved Model List(s)

Model:

Description of Type Design Change:

Replace existing engine air filter frame assembly with Brackett Aircraft Specialties frame assembly in accordance with Approved Model List.

NOTE: FAA- Approved Model List(s) form a part of this certificate.

Limitations and Conditions: This approval should not be extended to other aircraft of this model on which other previously approved modifications are incorporated unless it is determined by the installer that the interrelationship between this change and any of those other previously approved modifications will introduce no adverse effect upon the airworthiness of that aircraft.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: January 9, 1975

Date issued: March 3, 1983

Date of issuance: February 21, 1975

Date amended:



By direction of the Administrator

James A. Krueger
(Signature)

Supervisor, Aircraft Modification Section

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

This certificate may be transferred in accordance with FAR 21.47.

BRACKETT FILTER MODEL		BA-8110	APPLICABILITY LIST		
AIRPLANE MODEL	T.C. NO.	DESCRIPTION OF TYPE DESIGN CHANGE	APPROVED DATE		
BELLANCA 1-1, 19-17-30	A 1A1	Install BA-8110 filter assembly in accordance with installation instructions No. BA-8105 dated October 20, 1976 or later FAA Approved Revision.	April 25, 1979		
BELLANCA 7GCAA 7GCBC, 7KCAH 7ECA	A759		April 25, 1979		
CESSNA 180A, 1800	5A6		April 25, 1979		
CESSNA 182, 182A	3A13		April 24, 1979		
CESSNA 810C, 1800 7E, 7F, 7G, 7H, 7I, 7J, and 180K SEAPLANE VERSIONS	5A6		Dec. 29, 1977		
CESSNA 180C, 1800 180E, 180F, 180G, 180H, 180J, 180K LANDPLANE ONLY.	5A6		Dec. 23, 1976		
CESSNA 1820, 1820 1820, 182E, 182F, 182G, 182H, 182J, 182K, 182L, 182M, 182N, 182P, 182Q, 182R.	3A13		Dec. 23, 1976		
CESSNA 185, 185A 185B, 185C, 185D, 185E, A185E, A185F	3A24		Dec. 21, 1976		
BELLANCA BKCAH BGDC	A21CE		Install BA-8110 filter assembly in accordance with installation instructions No. BA-8105 dated October 20, 1976 or later FAA Approved Revision.	Jan. 29, 1980	



BRACKETT AIR FILTERS

ASSEMBLY PART NO. BA-8110

FAA APPROVAL DATA:

STC - SA71G1 List No. 1
FAA-PMA Supplement No. 1

REPLACES FILTER PART NUMBERS:

0750038-1, -4
0750127-12, -14
0750146-1
P10-4145 and P10-6150

AIRCRAFT MODELS:

Cessna 180 A,B Use Instructions II
Cessna 180C thru K Use Instructions I
Cessna 182, 182A Use Instructions II
Cessna 182B thru Q Use Instructions I
Cessna 185 thru F Use Instructions I
Bellanca 14-19-13A Use Instructions III
Bellanca 17-30, 1730A Use Instructions III
Bellanca 7GCAA, &GCBB, 7KCAB
Use Instructions III
Bellanca 7ECA, 8KCAB, 8GCBC
Use Instructions III

I INSTRUCTIONS (For Cessna 180C,-K, 182B,-Q, 185-F)

- Step 1. Remove the original filter.
- Step 2. Install frame assembly the same as the original filter.
NOTE: Be sure frame is mounted tight. Bolt or screw down if necessary. THIS IS A MUST. Check entire induction system for cracks, leaks, loose heat doors, etc.
- Step 3. Install element PN BA-8103. Squeeze out excessive oil, blot off and then push element into frame, making sure you have made good contact with the frame on all sides. Note: If you desire, for extra precaution, you can coat the inside of the frame lightly with some grease. This insures an extra good seal between the side of the element and the frame.
- Step 4. Install grill PN BA-8102 or BA-8102-2 with the 4 each 8-32-8 screws.
- Step 5. For future element replacements remove the grill only and replace element PN BA-8103

II INSTRUCTIONS (For Cessna 180A,B and 182, 182A)

- Step 1. This kit No. 81 provided 4 ea. AN 526-832-8 screws, 4 ea. AN 960-8 washers and 4 ea. AN365-832 nuts. These are used to bolt the filter frame directly to the carburetor heat box.
- Step 2. Remove the airloc pins from the BA-8110 frame. These are used on the airplane where the filter fits into the cowling. We suggest you use side cutters to pull out the small pins.

OVER

II INSTRUCTIONS (Continued)

- Step 3. Hold the filter frame over the air box as close to center as possible by eyeballing. Next take a pencil and draw a line around the frame onto the air box. Remove the filter frame and check the area inside your pencil line to see if box was centered so that there is at least a 1/4" metal for the gasket to sit on.
- Step 4. Place frame back into position on carburetor heat box and clamp and locate the four holes for drilling.
- Step 5. Drill 4 ea. 3/16" dia. holes through the heat box as located.
- Step 6. Bolt frame tight with the 4 screws, nuts and washers provided. Torque to compress gasket 50%.
- Step 7. See steps 3, 4, and 5 of I Instructions above for further steps.

III INSTRUCTIONS (For Bellanca and Champion)

Remove the 4 each airloc pins from the frame assembly. Attach frame assembly to aircraft with the 4 each MS 35206-264 screws provided. Complete installation steps as outlined 3 thru 5 in INSTRUCTIONS I.

NOTE: Because your filter has been treated with a special wettant agent and a fire retardant it should not be washed out. We recommend replacing element BA-8103 after 200 hours use or each 12 months or whenever 50% covered with foreign material.

PRODUCT IMPROVEMENT

You will note a small hole on bottom side of filter frame. This hole is a water drain and should be kept open. The hole will not affect the filter efficiency. The purpose of the hole is to drain any water that may collect while aircraft is parked outside or during aircraft washing.