



BRACKETT AERO FILTERS, INC.



INSTRUCTIONS

ASSEMBLY PART NO. BA-4106

APPROVED ON AIRCRAFT MODELS: SEE FAA APPROVED APPLICABILITY LIST

FAA APPROVAL DATA: STC-S71GL List No. 1
FAA-PMA Supplement No. 1

Your new polyurethane air filter element has been designed to provide maximum dust collecting efficiency, non-restrictive air flow, and economical element replacement, while maintaining a lightweight filter. The element has been treated with a distinctive treatment called a wetted agent and is approximately 98% efficient. The wetted agent is an accompaniment in the efficient capturing of dust. In addition, the element has received a fire retardant treatment. For the above reasons, replace the element each 100 hours of use/12 months or when 50% covered with foreign material. DO NOT WASH AND REUSE.

INSTALLATION INSTRUCTIONS

- STEP 1. Remove existing filter and gasket from carburetor heat box and discard.
- STEP 2. Inspect heat box for condition making sure valve shaft and bushing is not worn. If un-airworthy, repair with kit or replace worn carburetor heat box.
- STEP 3. Snip or file off cam lock stops. These may be worn or broken off already.
- STEP 4. Attach filter frame to carburetor heat box with 4 ea. screws, nuts and 8 ea. washers, one on each side (furnished). Torque each nut to where the neoprene gasket is compressed to 1/2 of its original thickness.
- STEP 5. Install filter element, PN BA-4108 into frame, making sure the taper of element is the same as the taper of the frame and contact is being made on all sides.
- STEP 6. Install grill with the 2 short screws AN526-832-6. Place the grill so the grill is pressed against the element. The smooth part of the tabs will be facing forward. Use 2 ea. MS35333-38 internal lock washers under screws.
- STEP 7. NOTE: After initial installation of filter assembly, fill out FAA form 337 for return to service. On future replacement of parts this form will not be required.

SERVICING: Under normal conditions, replace filter element PN BA-4108, after 100 hours use or 1 year intervals. Under severely dusty condition, check daily and replace when element is 50% covered with foreign material. For Continued Airworthiness Instructions, see Form I-194.

FAA APPROVED MODEL LIST (AML) NO. SA71GL
BRACKETT AERO FILTERS, INC.

FOR
INSTALLING AIR FILTERS

Issue Date: April 17, 1995

ITEM	AIR FILTER MODEL NUMBER	TOP DRAWING		AIRCRAFT MAKE	AIRCRAFT MODEL	ORIGINAL TYPE CERTIFICATE NUMBER	CERT. BASIS	AML AMENDMENT DATE
		NUMBER	REVISION & DATE					
29	BA-4106	BA-4106	D 6/15/95	Cessna	120, 140	A-768	CAR 4a	7/12/95
				Cessna	140A	5A2	CAR 3	7/12/95
				Cessna	150/A/B/C/D/E/F/G/H/J/K/L/M, A150M, 152, A152	3A19	CAR 3	7/12/95
				American Champion	Bellanca (Champion) (Aeronca) 7ACA, 7ECA, 7FC	A-759	CAR 4a	7/12/95
				Aviat Inc.	(Christen) A-1	A22NM	FAR 23	7/12/95
				Luscombe	8/A/B/C/D/E/F, T-8F	A-694	CAR 4a	7/12/95
				Piper	PA-22, PA-22-135, PA-22-150, PA-22-160, PA-22-108	1A6	CAR 3	7/12/95
				Piper	PA-20-115, PA-20-135	1A4	CAR 3	7/12/95
				Piper	PA-38-112	A18SO	FAR 23	7/12/95
				Piper	J-3, J3C-65, J3C-65S, PA-11, PA-11S	A-691	CAR 4a	7/12/95
				Piper	J4A, J4A-S	A-703	CAR 4a	7/12/95
				Piper	J4E	A-740	CAR 4a	7/12/95
				Piper	J5A, J5A-80	A-725	CAR 4a	7/12/95
				Piper	PA-12, PA-12S	A-780	CAR 3	7/12/95
Piper	PA-16	1A1	CAR 3	7/12/95				
Piper	PA-17	A-805	CAR 3	7/12/95				
Piper	PA-18, PA-18A, PA-18S, PA-18-"125" (Army L-21A), PA-18AS-"125", PA-18S-"125", PA-18-"135" (Army L-21B), PA-18A-"135", PA-18AS-"135", PA-18S-"135"	1A2	CAR 3	7/12/95				

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29 (Cont)	BA-4106	BA-4106	D 6/15/95	Piper	PA-18-"150", PA-18A-"150" (SN 18-1 thru 18-6963), PA-18S-"150", PA-19	1A2	CAR 3	7/12/95
				Piper	PA-18A (Restricted), PA-18A-"135" (Restricted), PA-18A-"150" (Restricted) (SN 18-1 thru 18-6963)	AR-7	CAR 8.10(b)	7/12/95
				Taylorcraft	BC65, BCS-65, BC12-65, BCS12-65, BC12-D, BCS12-D1, BC12D85, BCS12D85, BC12D-4-85, BCS12D-4-85	A-696	CAR 4	7/12/95
				Taylorcraft	19, F19, F21	1A9	CAR 3	7/12/95
				Taylorcraft	DC-65, DCO-65	A-746	CAR 4a	7/12/95
				Univair	(Alon) A-2, A2-A, (Forney) F-1, F-1A, (Mooney) M10	A787	CAR 3	7/12/95
				Swift				
				Museum	(Globe) GC-1A, GC-1B	A-766	CAR 4a	7/12/95
				Augustair	Varga (Morrisey) 2150A	4A19	CAR 3	7/12/95
				Aeronca	65-CA	A-675	AB 7a	7/12/95
				American Champion	7ECA (with Cont. O-200-A engine), 7ACA	A-759	CAR 4a	7/12/95
				Reims Aviation	(Cessna) F150G/H/J/K/L/M, FA150KL, F152, FA152	A13EU	FAR 21.29	7/12/95

*** END OF DATA ***

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

Number SA71GL

This Certificate issued to BRACKETT AERO FILTERS, INC.
7052 Government Way
Kingman, Arizona 86401

*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 * of the * Regulations.*

Original Product Type Certificate Number: * *See attached Approved Model List (AML)

Make: *(AML) No. SA71GL for list of approved aircraft

Model: *models and applicable airworthiness regulations.

Description of Type Design Change: Installation of air filters in accordance with AML No. SA71GL dated April 17, 1995, or later FAA approved revision.

Limitations and Conditions: Approval of this change in type design applies to the above aircraft model(s) only. This approval should not be extended to aircraft of this model on which other previously approved modifications are incorporated unless it is determined 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. A copy of this Certificate and FAA Approved Model List (AML) No. SA71GL dated April 17, 1995, or later FAA approved revision must be maintained as part of the permanent records for the modified 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 reissued: March 3, 1983, June 20, 2000

Date of issuance: February 21, 1975

Date amended: April 17, 1995



By direction of the Administrator

for Jim Liza Phalabanan
(Signature)

Manager, Tech. and Admin. Support Staff
Los Angeles Aircraft Certification Office
(Title)

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

BRACKETT AIR FILTER DOCUMENT I-194

PLACE IN AIRCRAFT RECORDS

CONTINUED AIRWORTHINESS INSPECTION
 REQUIREMENTS AS PER FAR 23.1529
 AND GENERAL PROCEDURES OF PART 43

INSPECTION INTERVALS: Pre-flight inspections, engine backfire inspection, 100 hour inspections, annual inspections, filter element replacements.

INSPECTION PROCEDURES

- A. Pre-flight inspection: Per Pilots Operating Handbook, check filter assembly for security, damage or 50% contamination of element face. If found report to maintenance personnel prior to flight.
- B. Engine start-up backfire inspection: Prior to flight, check the entire intake system for security or damage. If a fire was present, the downstream face of the foam element will show erosion. If any irregularities are found see Chart I and also refer to the Aircraft Maintenance Manual for the intake system.
- C. At element replacement intervals: With the element removed, inspect the filter grill, filter frame, filter mountings and entire intake system for security, wear and any deformation. Note: On filter assemblies with gaskets, visually inspect inside and outside of frame for any signs of gasket looseness, movement or deterioration. If found refer to Chart I or the proper maintenance manual for your aircraft or component.

PART			INSTRUCTIONS
	REPLACE	REWORK	
FRAME	X		COMPLETE NEW ASSEMBLY
GASKET	X		ON FILTER FRAME, REMOVE OLD NEOPRENE GASKET AND ALL TRACES OF ADHESIVE DOWN TO A CLEAN ANODIZED FRAME SURFACE. USE ADHESIVE 3M#847 OR DOW CORNING RTV-732. COAT ENTIRE MATING SURFACE (GASKET TO FRAME). APPLY ADHESIVE FOLLOWING MANUFACTURER'S LABEL DIRECTIONS. WHEN FRAME AND GASKET ARE PLACED TOGETHER, CLAMP OR WEIGHT DOWN AT .75 LB./SQ. IN. OF CONTACT AREA. ALLOW TO CURE 24 HOURS PRIOR TO INSTALLATION. PRIOR TO REINSTALLATION OF FILTER, CHECK AIRBOX MATING SURFACE FOR IRREGULARITIES. IF FOUND, CORRECT PER MANUFACTURER'S REQUIREMENTS. UPON REINSTALLATION CHECK THAT THE GASKET MAKES 100% CONTACT. THE GASKET SHOULD BE COMPRESSED 50% FOR OPTIMUM SEAL.
GRILL	X		REPLACE WITH NEW GRILL
HARDWARE	X		REPLACE UNSERVICEABLE WITH NEW
SCREEN	X		COMPLETE NEW ASSEMBLY
SCREEN/GASKET	X		COMPLETE NEW ASSEMBLY (ASSEMBLIES USING SCREEN GASKETS PRE 1981; BA-4106, BA-5110 AND BA-8110.)
ELEMENT	X		REPLACE ELEMENT