

BRACKETT AERO FILTERS, INC.



## **INSTRUCTIONS**

ASSEMBLY PART NO. BA-3810

APPROVED ON AIRCRAFT MODELS: SEE FAA APPROVED APPLICABILITY LIST

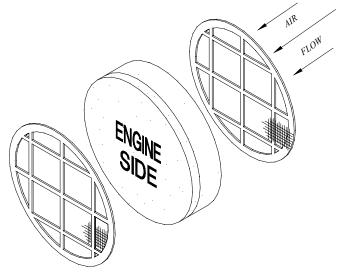
REPLACES: Cessna Filter AM105-389000-3

FAA APPROVAL DATA: STC-SA71GL 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 200 hours of use, 12 months or when 50% covered with foreign material. DO NOT WASH AND REUSE.

## **INSTALLATION INSTRUCTIONS**

- Step 1. Remove element PN BA-3805 from bag, sandwich element between 2 each frame assemblies PN 3810-00. Be sure the screen hardware cloth side is placed next to foam element. Your foam element has "ENGINE SIDE" painted on the foam. Place this side toward the engine when installing filter.
- Step 2. Apply service decal to the filter canister. PLACE SO IT IS READABLE.
- Step 3. 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-3805, after 200 hours use or 1 year intervals. Under severely dusty conditions, <u>check daily</u> and replace when element is 50% covered with foreign material. For Continued Airworthiness Instructions, see Form I-194.

Instruction Sheet Part No. 3810-04 Date Rev: 08-13-04 Mfg. by: BRACKETT AERO FILTERS, INC. Kingman, AZ United States Of America Bepartment of Transportation - Federal Abiation Administration



Number SATIGL

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 Deduct 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.

*Bimitations 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 of issuance February 21, 1975



Date reissued March 3, 1983, June 20, 2000

Date amended . April 17, 1995

By direction of the Administrator

Hm Liza Mal

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

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.

Issue Date: April 17, 1995	ORIGINAL TYPE		PA-24-250 (SN 24-1, 24-103 thru 1A15 CAR 3	*** END OF DATA ***	PA-31P, PA-31P-350 A8EA CAR 3	*** END OF DATA ***	PA-23-250, PA-E23-250 (with Lyc. TIO-540 engine P/N 32330) 1A10 CAR 3 (SN 27-4426, 27-4574 and UP)	PA-44-180T A19SO FAR 23	*** END OF DATA	411/A A7CE CAR3	*** END OF DATA ***	ler 112, 112A, 112B A12S0 CAR 3	(Aero Commander) 100-180 1A21 CAR 3	*** END OF DATA ***	der   112TC, 112TC-A, 114, 114A   A12S0   CAR 3	*** END OF DATA ***
		AIRCRAFT AIRC MAKE MC			Piper Piper PA-31P, I		Piper TIO-540 eng (SN 27-4426,	Piper PA-4		Cessna 4		Commander 112, 1	Dynac (Aero Comm		Commander 112TC, 1121	
	TOP DRAWING	REVISION AIF & DATE		B 11/7/85		N/C 2/28/91	B 12/4/94			N/C 2/26/91		N/C 10/7/91		N/C 7/29/91		
		NUMBER		BA-3210		BA-3310	BA-3510			BA-3810		BA-3910		BA-4010		
	AIR FILTER	MODEL NUMBER		BA-3210		BA-3310	BA-3510			BA-3810		BA-3910			BA-4010	
		ITEM 23			24	25			26			27			28	

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

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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.

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