

BRACKETT AERO FILTERS, INC.



INSTRUCTIONS

ASSEMBLY PART NO. BA-152

APPROVED ON AIRCRAFT MODELS: Twin Commander formerly

Gulfstream Commander Model 500.

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.

INSTALLING INSTRUCTIONS

- 1. Drill out rivets on opposite corners to open or separate frame (See Fig A, over).
- 2. Remove original pleated filter material and discard.
- 3. Clean frame thoroughly.
- 4. Sandwich foam element PN BA-152E between 2 ea. screen assemblies PN 152-00. Place the hardware cloth part of the screen against the foam (See Fig B, over).
- 5. Insert the screen assembly and foam into the filter housing. *Note* if the frame has arrows showing air flow, place the dense foam marked "Engine Side" to the point of the arrow (downstream).
- 6. Install the MS24693-S26 screws and MS20365-632 nuts in place where the rivets were removed (See Fig C, over).
- 7. Install filter assembly in aircraft with the "Engine Side" facing downstream.
- 8. 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.

Kit Parts List:

2 Ea. Screen Asm. PN 152-00
1 Ea. Element PN BA-152E
4 Ea. Screw MS24693-S26
4 Ea. Nut MS20365-632

SERVICING: Under normal conditions, replace filter element, PN BA-152E, after 200 hours use or 1 year intervals. Under severely dusty conditions, check daily and replace when element is 50% covered with foreign material. For Continued Airworthiness Instructions, see Form I-194.

Instruction Sheet Part No. 152-03 Date Rev: 06-30-04 Mfg. by: BRACKETT AERO FILTERS, INC. Kingman, AZ

United States Of America

Bepartment of Transportation - Federal Abiation 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.

Similations 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

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

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

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

FOR INSTALLING AIR FILTERS

Issue Date: April 17, 1995	ORIGINAL	AIRCRAFT CERTIFICATE CERT. AME MODEL NUMBER BASIS	500 6A1 CAR3	*** END OF DATA ***	per PA-30, PA-39 (with STC SA787WE) A1EA CAR 3	*** END OF DATA ***	enavia truzioni P68, P68B, P68C, P68 "Observer" A31EU FAR 23	*** END OF DATA ***	iper PA-23-250, PA-E23-250 (with STC 1A1D CAR 3	*** END OF DATA ***	500-A, 500-B, 500-U, 500-S 6A1 CAR 3	win mander 560-F, 680F, 680FL, 680FL(P) 2A4 CAR 3	
		AIRCRAFT AIRCRAFT MODEL		QNB ***	Piper PA-30, PA-39 (with STC SA787WE)	*** ENI	Partenavia Costruzioni Aeronautiche P68, P68B, P68C, P68 "Observer"	*** ENI		N3 ***	Twin Commander 500-A, 500-B, 500-U, 500-S		
		REVISION AIF & DATE	N/C 7/14/92			B 12/5/94	A Aet 12/5/94		A 11/22/94		S	၁	4/08/01
	TOP DRAWING	NUMBER		BA-152		BA-121	BA-162		BA-8610				BA-153
	AIR FILTER MODEL NUMBER BA-152				BA-121	BA-162		BA-8610			-	BA-153	
	ITEM		63		64		65		99				29

FAA Approved: Thomas A. Enyart

Manager, Propulsion Branch

Date: 2/18/05

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	RED	REU ACE	INSTRUCTIONS
FRAME	Χ		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	Χ		REPLACE WITH NEW GRILL
HARDWARE	Χ		REPLACE UNSERVICEABLE WITH NEW
SCREEN	Χ		COMPLETE NEW ASSEMBLY
SCREEN/GASKET	Χ		COMPLETE NEW ASSEMBLY (ASSEMBLIES USING SCREEN GASKETS PRE 1981; BA-4106, BA-5110 AND BA-8110.)
ELEMENT	X		REPLACE ELEMENT

DATE: 3-16-94 CHART 1