



# BRACKETT AERO FILTERS, INC.



## INSTRUCTIONS

ASSEMBLY PART NO. BA-151

APPROVED ON AIRCRAFT MODELS: Twin Commander formerly  
Gulfstream Commander Model 500-A, 500-B,  
500-U, 560-F, 680-F, 680FL, 680FL(P)

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.

## 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-151E between 2 ea. screen assemblies PN 151-00. 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 and place decal so it is readable.
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.

SERVICING: Under normal conditions, replace filter element, PN BA-151E, 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.

### Kit parts list:

2 ea.	Screen Assembly	PN 151-00
1 ea.	Element	PN BA-151E
4 ea.	Screw	MS24693-S26
4 ea.	Nut	MS20365-632
1 ea.	Decal	PN 151-04

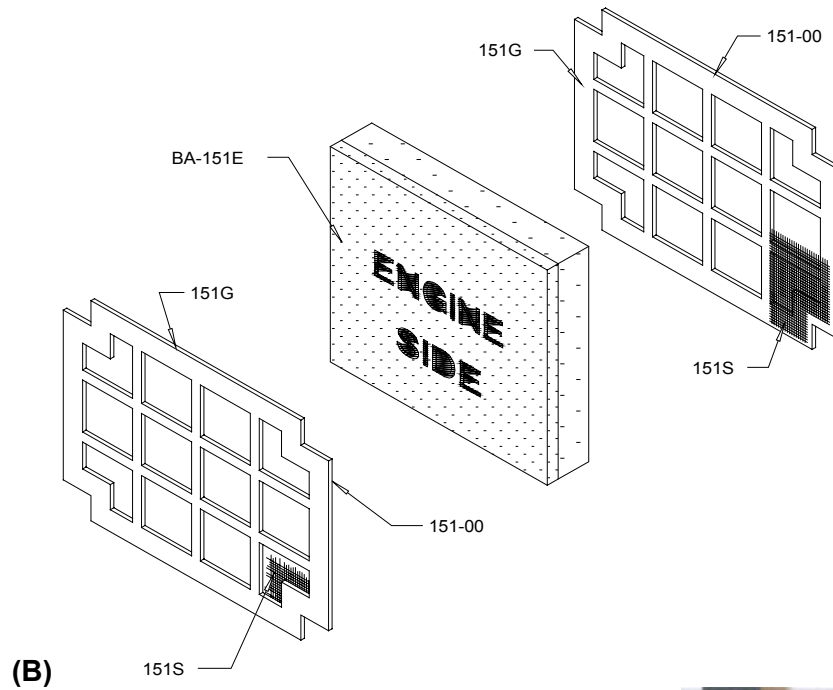
Page 1 of 2



# BRACKETT AERO FILTERS, INC.



(A)



(B)



(C)

**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					
58	BA-8710	BA-8710	A 3/27/85	Cessna	P210N, P210R	3A21	CAR 3	-----
*** END OF DATA ***								
59	BA-8810	BA-8810	A 10/4/91	Univair	(Mooney) 415-C, 415-CD	A-718	CAR 4a	-----
				Univair	415D, (ERCO)E, (ERCO)G	A-787	CAR 3	-----
*** END OF DATA ***								
60	BA-8910	BA-8910	B 6/5/95	Dynac	(Aero Commander) 100, 100A	1A21	CAR 3	7/12/95
				*** END OF DATA ***				
61	BA-S108K	BA-S108K	N/C 7/14/88	Univair	(Stinson) 108, 108-1, 108-2, 108-3	A-767	CAR 3	-----
				*** END OF DATA ***				
62	BA-151	BA-151	A 12/1/93	Twin Commander	500-A, 500-B, 500-U	6A1	CAR 3	-----
				Twin Commander	560F, 680-F, 680FL, 680FL(P)	2A4	CAR 3	-----
*** END OF DATA ***								

# 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