INSTRUCTIONS

ASSEMBLY PART NO. BA-121

APPROVED ON AIRCRAFT MODELS: PA-30, PA-39, Twin Commanche with Ray Jay Turbocharger STC No. SA787WE

REPLACES: Ray Jay Filter PN 201-485, PN HRJ0633-1-2

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 existing filter and discard.

STEP 2. Clean inlet area and inspect for any irregularities.

STEP 3. Install filter using the same procedure as with the original filter. NOTE: Verify element is seated to screen around total circumference.

STEP 4. Apply service decal to the filter canister. PLACE SO IT IS READABLE.

STEP 5. 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-27, 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.
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 therefore as specified herein meets the airworthiness requirements of Part 33 of the
Regulations.

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

Model: *(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 issued: February 21, 1975

Date reissued: March 3, 1983, June 20, 2000

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 Form 8110-2 (19-68) Page 1 of 2 This certificate may be transferred in accordance with FAR 21.47.
## FAA APPROVED MODEL LIST (AML) NO. SA71GL
### BRACKETT AERO FILTERS, INC.
#### FOR
##### INSTALLING AIR FILTERS

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<th>Item</th>
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<th>Top Drawing Revision &amp; Date</th>
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***END OF DATA***

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FAA Approved: Thomas A. Enyart  
Manager, Propulsion Branch

Date: 2/18/05

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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.

<table>
<thead>
<tr>
<th>PART</th>
<th>REPLACE</th>
<th>REWORK</th>
<th>INSTRUCTIONS</th>
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<tr>
<td>FRAME</td>
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<td>COMPLETE NEW ASSEMBLY</td>
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<tr>
<td>GASKET</td>
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<td>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.</td>
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<tr>
<td>GRILL</td>
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<td>REPLACE WITH NEW GRILL</td>
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<td>REPLACE UNSERVICEABLE WITH NEW</td>
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DATE: 3-16-94
CHART 1