



SERVICE BULLETIN

No. 693

Piper Aircraft Corporation
FAA Approved

Lock Haven, Pennsylvania, U.S.A.
July 28, 1980 M

Subject: Engine Baffle Seals Inspection/Modification

Models Affected:

PA-31, 31-325, 31-300 Navajo
PA-31-350 Chieftain

Serial Numbers Affected:

31-2 through 31-8012089
31-5001 through 31-8052199

Compliance Time:

Within the next fifty (50) hours of operation or at the next scheduled maintenance event, whichever occurs first, and every fifty (50) hours thereafter until the reinforcements are installed.

Purpose:

Reports have been received of engine baffle seals blowing back and not properly sealing the baffles to the cowling. This condition may contribute to high engine operating temperatures.

This service release provides instructions for inspection of baffle seals for proper placement and for reinforcement to baffle seals.

Instructions:

A. Inspection:

1. Look in air inlets and access doors to determine if forward and aft seals are in proper position, i.e., all seals must face forward.
2. If seals are in place, make logbook entry of inspection per this Service Bulletin.
3. If any seal is blown back, proceed to B., Reinforcement, below, before further flight.

NOTE: Compliance with B., Reinforcement, below, relieves the fifty (50) hour recurring inspection requirement of this Service Release.

B. Reinforcement:

1. Remove upper and lower cowling.
2. Remove any small reinforcing patches from the front baffle seals.
3. Clean the surfaces of front and rear baffle seals with MEK.

(over)

Instructions: (continued)

B. Reinforcement: (continued)

4. Bond reinforcing strips, Part Number 71646-04 and 71646-05 to rear face of existing forward baffle seals using Carboline Neoprene Adhesive F-1 or equivalent. Allow adhesive to set for 30 minutes before bonding surfaces. Alignment of edges of reinforcing strips must match edges of existing seals.

NOTE: Contour of modified seal must match contour of cowl.

5. Install pop rivets Part Number 422 998 and AN960-4 washers, Part Number 407 561, with head of rivets on outside of seals. See Sketch 1.
6. Bond reinforcing strips Part Number 71646-06 to rear baffle seals at each slit with adhesive as described above.

NOTE: Contour of modified seal must match contour of cowl.
Do not reinforce slits provided for clearance to cowl channels at separation line.

7. Install pop rivets Part Number 422 998 and AN960-4 washers, Part Number 407 561 as required per Sketch 2.
8. Insuring baffle seals are cleaned with MEK at rear of air filter, bond the overlapping corners with adhesive as described above.
9. Install one pop rivet Part Number 422 998 and one AN960-4 washer, Part Number 407 561 at each overlap area per Sketch 3.
10. Install cowling. Insure all baffle seals are facing forward.
11. Make appropriate logbook entry of compliance with this Service Release.

Material Required:

1. Two (2) each of 71646-04 and 71646-05 reinforcing strips per aircraft.
2. As required 71646-06 reinforcing patches. (Approximately 12 per aircraft.)
3. As required rivets, Part Number 422 998, USM AK42ABS-100.
4. As required AN960-4 washers, Part Number 407 561.
5. Carboline Neoprene Adhesive F-1, Piper Part Number 911 026.

NOTE: Equivalent adhesives are Proco Adhesive No. 6205-1 (Piper Part Number 911 037), Scotch Grip 2210 or Contact Adhesive B-10161 (Piper Part No. 179 853.)

Availability of Parts:

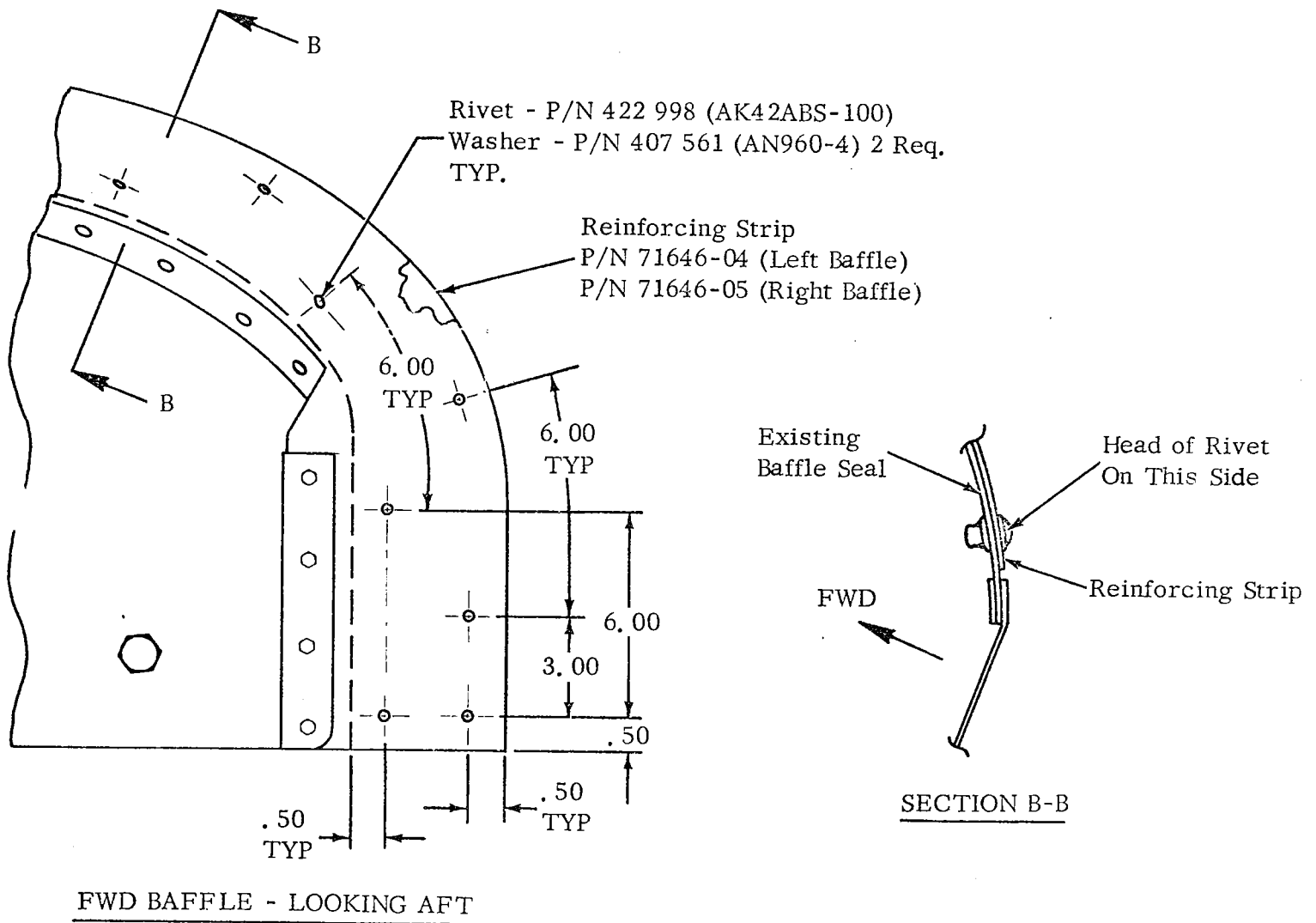
Your Piper Field Service Facility.

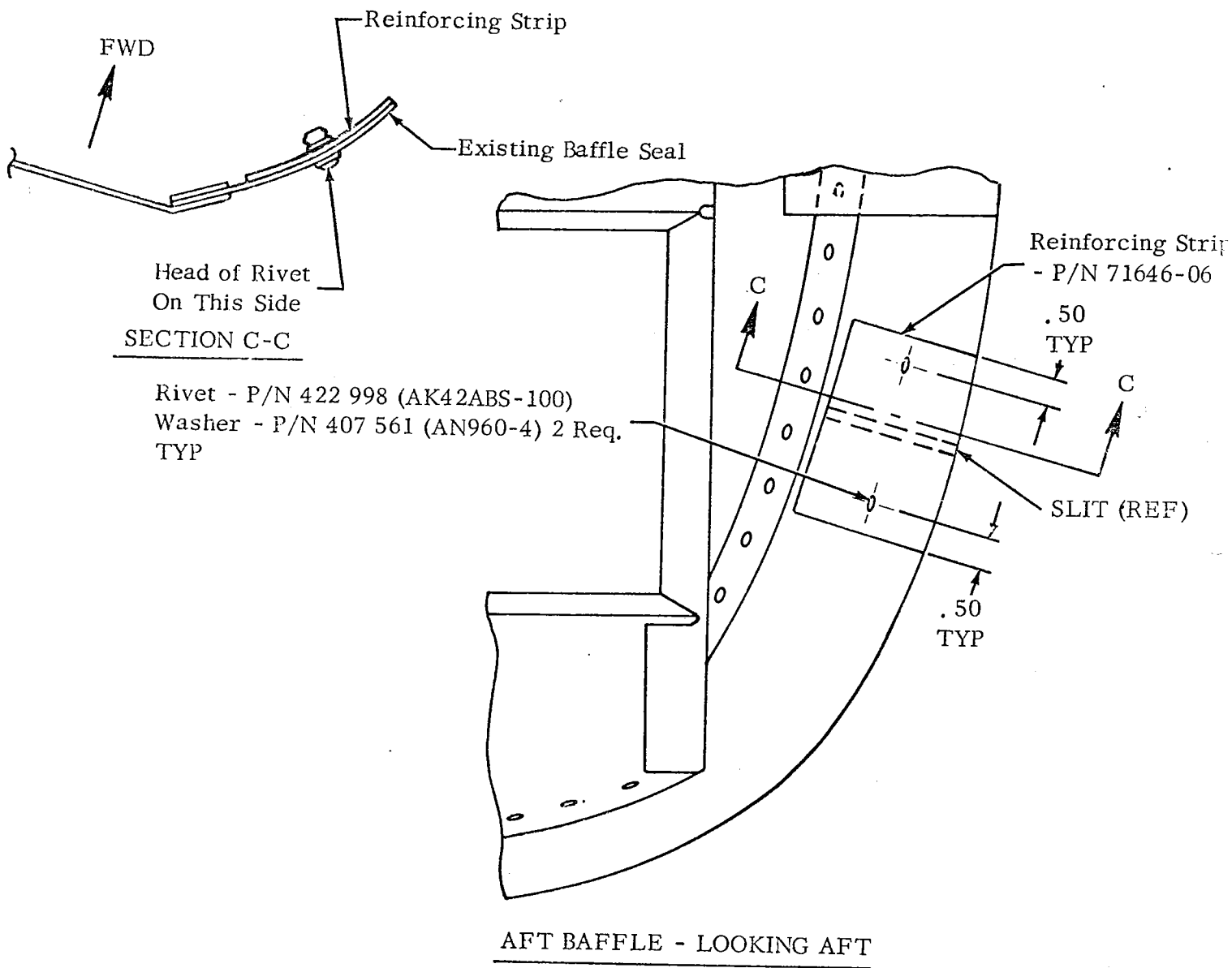
Effectivity Date:

This Service Release is effective upon receipt.

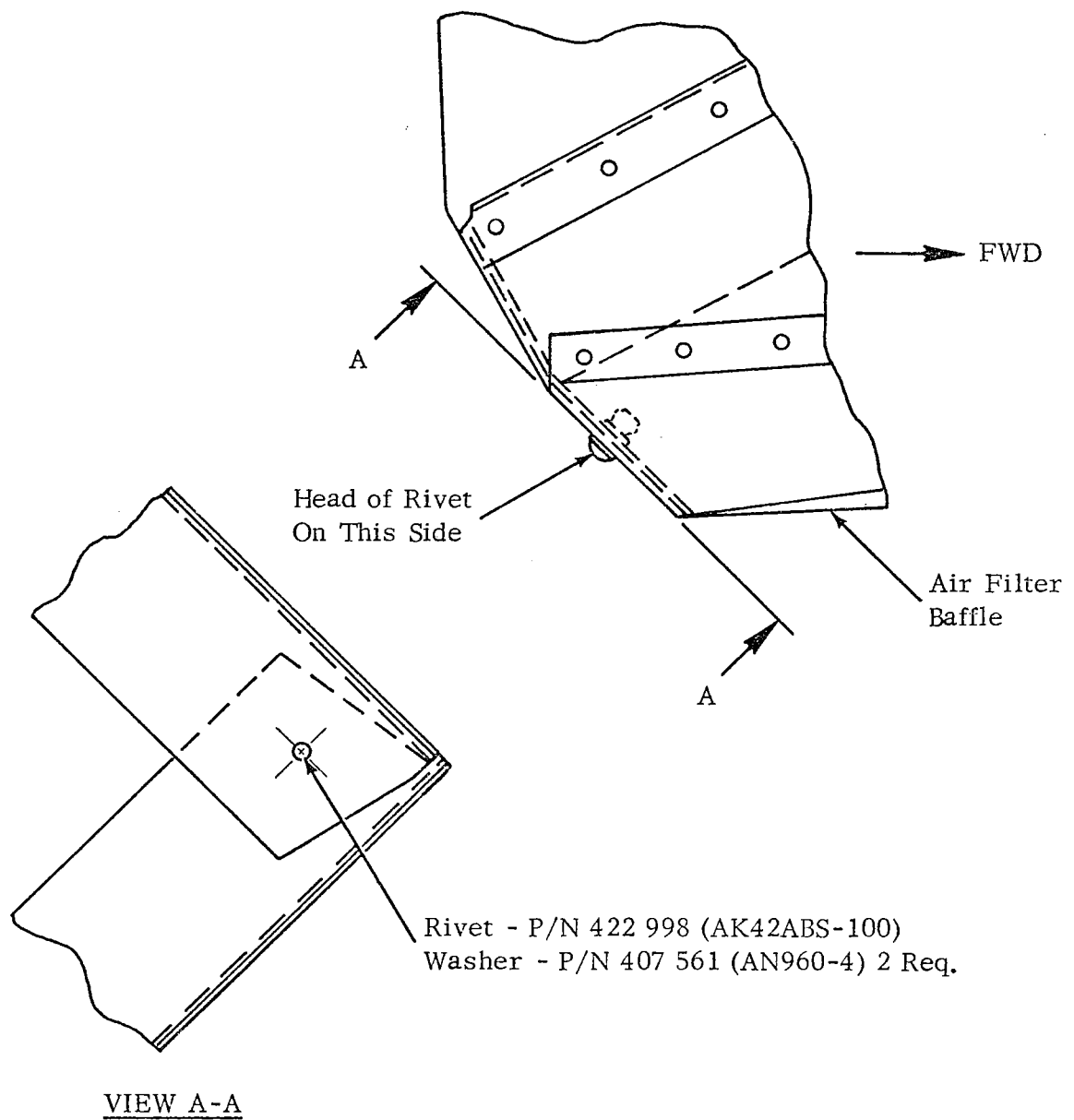
Summary:

Please contact your Piper Field Service Facility to arrange for compliance with the provisions of this Service Release in accordance with Compliance Time, above.

SKETCH 1



SKETCH 2



SKETCH 3