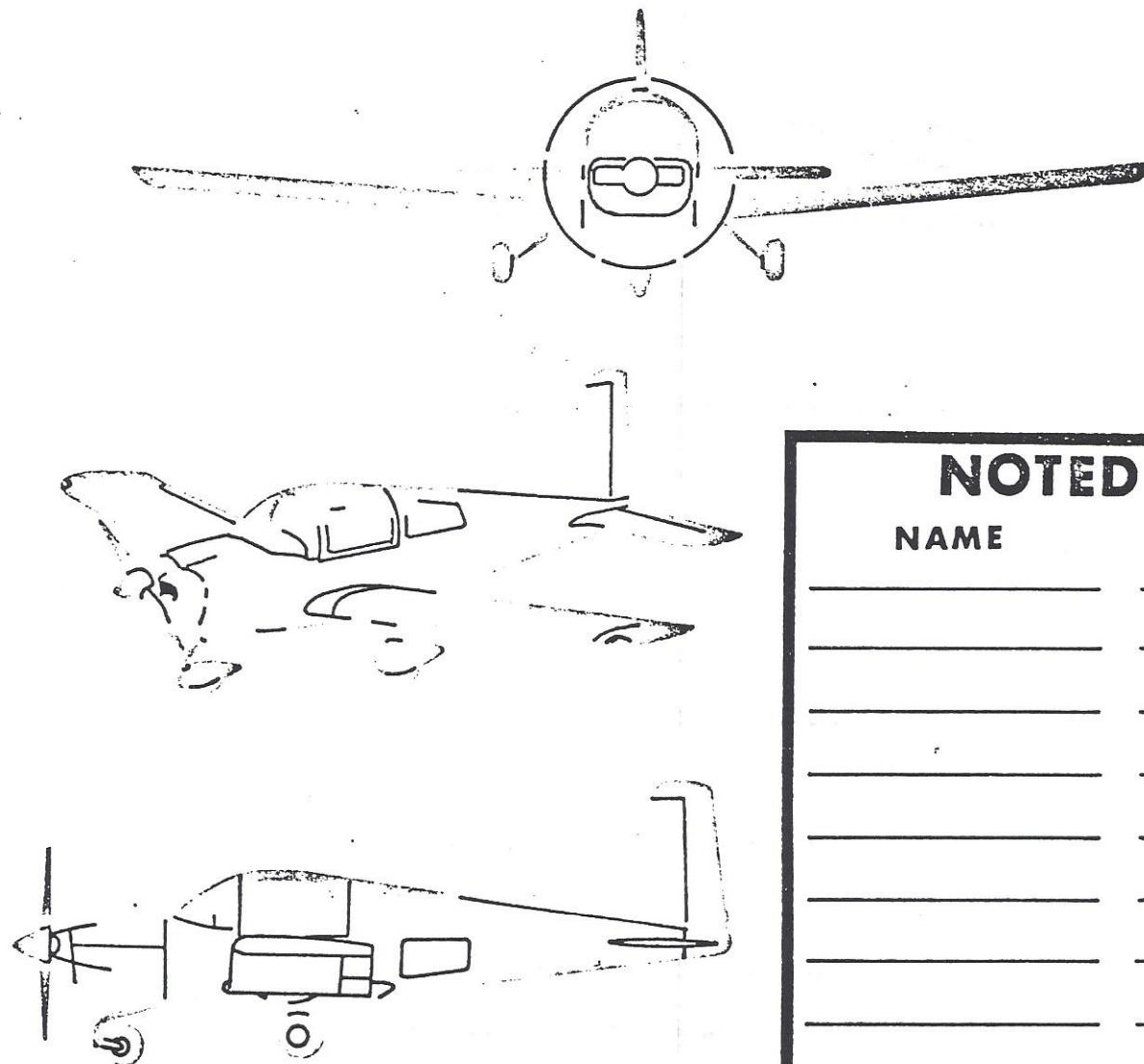


SINGLE ENGINE AIRCRAFT SERVICE KIT NO. 143

SUBJECT: PROPELLER (ATA No. 61) SPINNER,
REPLACEMENT OF



NOTED BY

NAME

DATE

March 2, 1979



Gulfstream American

GULFSTREAM AMERICAN SINGLE ENGINE AIRCRAFT SERVICE KIT NO. 143.

SUBJECT: Propeller (ATA No. 61) Spinner, Replacement of.

PURPOSE/DISCUSSION: The purpose of this Service Kit is to provide a new spinner and an aft and forward bulkhead to prevent cracking of the spinner.

DESCRIPTION: This Service Kit consist of removing the old spinner, the Lexan bulkhead and the existing backplate and installing a new aft bulkhead and a new forward bulkhead, and a new spinner.

SPECIALTOOLS/
EQUIPMENT REQUIRED: Soft Metal (Brass) 3/8 in. Drift Punch.

EFFECTIVITY:	<u>MODEL</u>	<u>SERIAL NUMBER</u>
	AA5	1 and Subsequent
	AA5A	0001 through 0801
	AA5B	0001 through 1047

WEIGHT AND BALANCE:	<u>Weight</u>	<u>Arm</u>	<u>Moment</u>
Now	4.90	6.04	30
Was	2.67	4.32	12

This is a Design Improvement. No Parts or Labor Credit Will Be Given.

PRICE: Prices are subject to change without notice.

(B)
Price \$ 78.33

MODIFICATION INSTRUCTIONS:

A. Prepare the aircraft for safe ground maintenance as follows:

- A-1 Insure that the Master Switch is OFF and all aircraft System Switches are OFF.
- A-2 Insure the aircraft is grounded.
- A-3 Comply with all safe maintenance practices as recommended in the Maintenance Manual and FAA Regulations.

B. Removal Instructions:

- B-1 Remove the screws from the spinner and slide spinner forward off the propeller.
- B-2 Remove the forward bulkhead and shims from the spinner.
- B-3 Cut the safety wire from the propeller bolts and remove the bolts.
- B-4 Pull propeller forward to remove from aircraft.

NOTE

When the propeller is removed, the spacer, backplate assembly and dowel pins will remain with it.

CAUTION

When removing spacer insure that propeller is supported as close to backplate assembly as possible. Supporting it near the tips may result in damage.

- B-5 Place the propeller on two padded supports, with the spacer down.
- B-6 Use a soft metal (Brass) 3/8 in. drift punch to drive dowel pins from the propeller.

CAUTION

Alternate between the two dowel pins to prevent damage.

- B-7 Remove the backplate assembly from the spacer. Discard backplate.

C. Installation Instruction

NOTE

Propeller and spacer are matched during manufacturing. Align propeller serial number stamped on spacer with number 1 propeller blade for best balance. Propeller blade number 1 can be identified by "#1" stamped on blade."

- C-1 Place propeller on spacer so that the dowel holes in the propeller are aligned with the dowel pins. Insure that the bolt holes in the propeller are aligned with the bolt holes in the spacer.
- C-2 Place a padded wooden block on the propeller hub, lightly tap the block with a hammer to seat the dowel pins in the propeller.
- C-3 Install the 5506008—503 Aft Bulkhead Assy (—505 for AA5B) on the Starter Ring Gear Assy. See Figure 1.
- C-4 Install the propeller and spacer on the Starter Ring Gear Assy. See Figure 1.
- C-5 Install the 5506010—501 Forward Bulkhead Assy (—503 for AA5B) and the 5506011—1 Doubler (—3 for AA5B) under the head of the propeller bolts.

NOTE

Do not use any washers under the propeller bolts.

- C-6 Torque propeller bolts to 540 in. lbs. for AA5A torque to 750 ± 30 in. lbs. for AA5B safety wire bolts.
- C-7 Install the 5506009—3 spinner over the propeller and align holes in spinner with those in the aft bulkhead. Install the four screws as shown in Figure 1 first.

NOTE

Use NAS1515J3L washers only.

NOTE

Retorque all screw after installation to prevent torque loss by compression of the non-metallic washers.

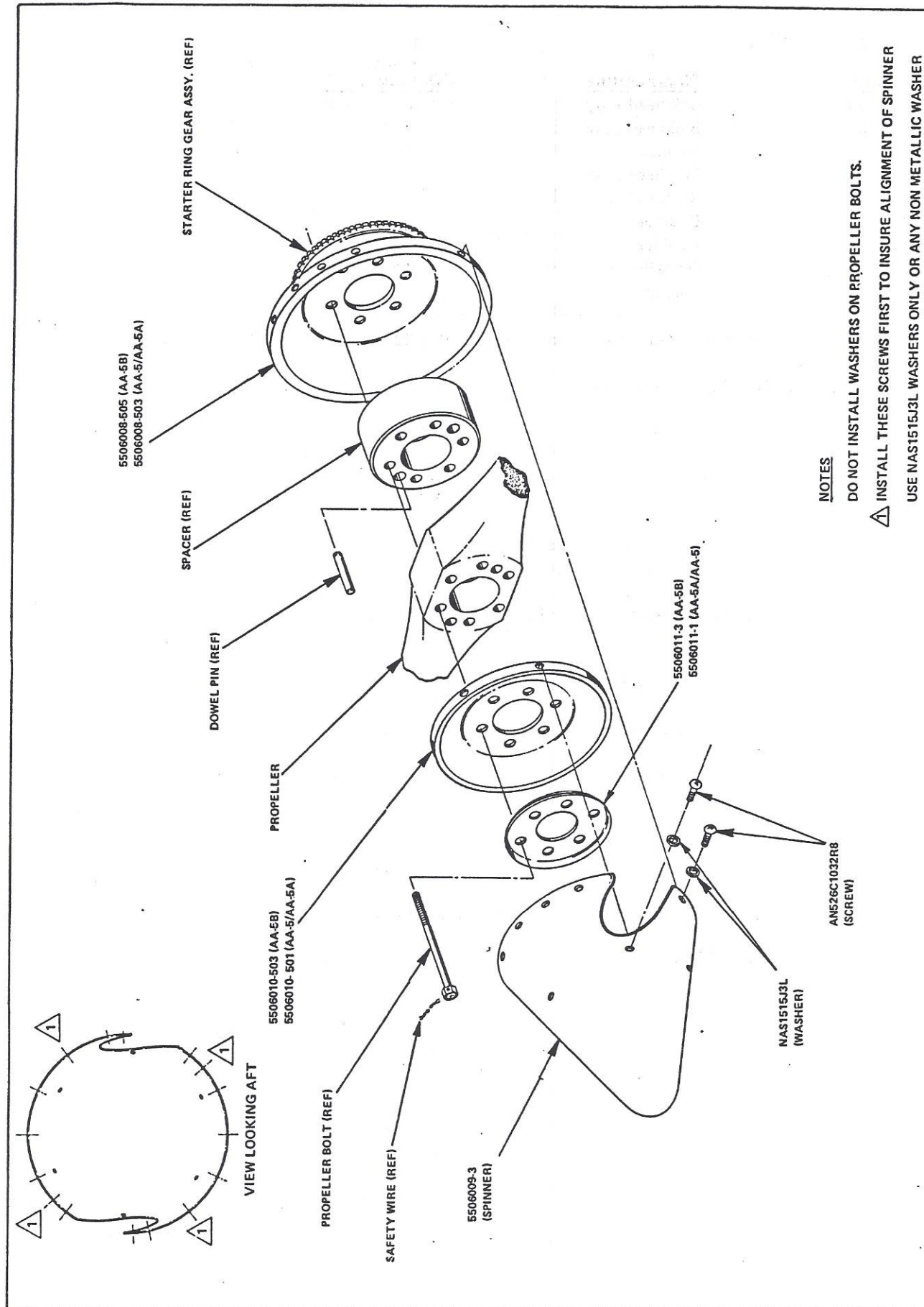
- D. Record compliance in the aircraft log book.
- E. Return aircraft to flight status.

Parts Required. Per Aircraft:

<u>Part Number</u>	<u>Nomenclature</u>	AA5 AA5A <u>Quantity Kit 1</u>	AA5B <u>Kit 2</u>
5506008-503	Bulkhead Assy	1	
5506008-505	Bulkhead Assy		1
5506009-3	Spinner	1	1
5506010-501	Bulkhead Assy	1	
5506010-503	Bulkhead Assy		1
5506011-1	Doubler	1	
5506011-3	Doubler		1
AN526C1032R8	Screw	22	22
NAS1515J3L	Washer	22	22

Service Kit prepared by Gulfstream American Corporation, P.O. Box 2206, Travis Field, Savannah, Georgia 31402

FAA (DER) Approval of this kit has been granted.

**NOTES**

DO NOT INSTALL WASHERS ON PROPELLER BOLTS.

▲ INSTALL THESE SCREWS FIRST TO INSURE ALIGNMENT OF SPINNER

USE NAS1515J3L WASHERS ONLY OR ANY NON METALLIC WASHER

FIGURE 1