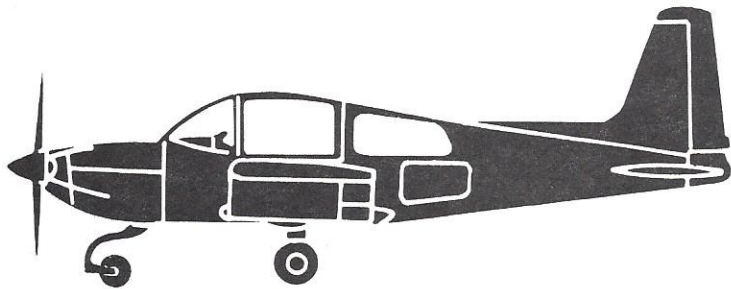
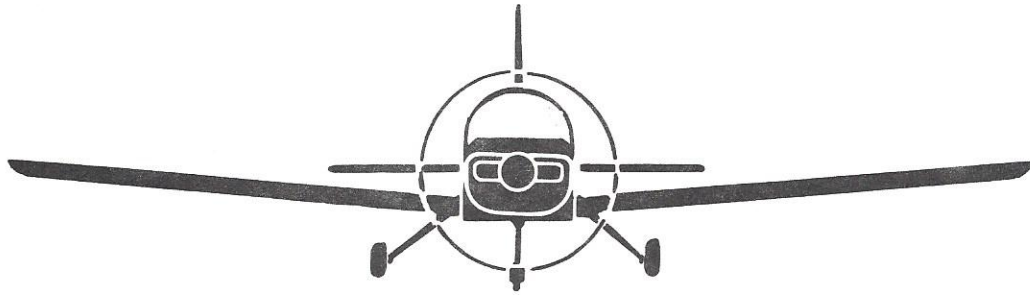


# SINGLE ENGINE AIRCRAFT SERVICE KIT NO. 148

**SUBJECT:** FLIGHT CONTROLS (ATA NO. 27) AILERON OUTBOARD SUPPORT BEARING ASSEMBLY, REPLACEMENT OF



<b>NOTED BY</b>	
<b>NAME</b>	<b>DATE</b>
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March 31, 1980



**Gulfstream American**

GULFSTREAM AMERICAN LIGHT SINGLE ENGINE AIRCRAFT SERVICE KIT NO. 148

SUBJECT: Flight Controls (ATA No. 27) Aileron Outboard Support Bearing Assembly, Replacement of.

PURPOSE/DISCUSSION: The purpose of this Service Kit is to provide the field with a new outboard aileron support bearing assembly.

DESCRIPTION: This service kit consist of removing and replacing the aileron outboard support bearing assembly.

SPECIAL TOOL/  
EQUIPMENT REQUIRED: None.

EFFECTIVITY:	<u>MODEL</u>	<u>SERIAL NUMBER</u>
	AA1	All AA1 series aircraft
	AA5	All AA5 aircraft
	AA5A	0001 through 0821*
	AA5B	0001 through 1110*

\* AA5A 0822 and subsequent will use a 902010-504  
\* AA5B 1111 and subsequent will use a 902010-504

WEIGHT AND BALANCE: Negligible

PRICE: Prices are subject to change without notice.  
Price SK148 18.85 (H code)

MODIFICATION INSTRUCTIONS

- A. Prepare 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 aircraft is grounded.
  - A-3 Comply with all safe maintenance practices as recommended in the Maintenance Manual and FAA Regulations.
- B. Rework Instructions.
- B-1 Remove wing tip.
  - B-2 Remove aileron counterbalance. Note location of bolt spacers inside aileron torque tube.
  - B-3 Remove aileron bearing support assembly and stop from rear wing spar. Slide the bearing assembly off the torque tube noting number and location of spacers.

NOTE

Note "top" marked on stop for correct reassembly.

- B-4 Position the spacers and the 902010-901 bearing support on the aileron torque tube.
- B-5 Align the support assembly on the spar. Insure that the leading edge of the aileron is aligned with the center line of the spar.
- B-6 Backdrill the support assembly using the existing holes in the rear spar as a guide.

NOTE

Spacer may have to be removed to insure good edge distance from the radius of the bearing support.

B-7 Install the support assembly and aileron stop using existing hardware.

NOTE

Lightly lubricate the inside surface of the bearing liner with Grease per MIL-G-7711.

B-8 Check the end play of the aileron.

NOTE

Spacers should be added or subtracted to give end play of 0. to .020 for the AA5 series aircraft and .020 to .060 for the AA1 series aircraft.

B-9 Install counterbalance to aileron. Note location of bolts and spacers.

B-10 Check aileron rigging as called out in Chapter 27 of the Maintenance Manual.

B-11 Install wing tip.

C. Return aircraft to flight status.

D. Record compliance in aircraft log book.

Parts Required Per Aircraft

<u>Part Number</u>	<u>Nomenclature</u>	<u>Quantity</u>
902010-901	Support Bearing Assy	1

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

FAA (DER) Approval of this Service Kit has been granted.