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SERVICE BULLETIN NO. 165A  
"FAA (DER) APPROVED"

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DATE: 9 NOVEMBER 1979

SUBJECT: AILERON INSPECTION OR MODIFICATION

SERIALS AFFECTED: AA5-0001 and subsequent, AA5A-0001 and subsequent,  
and AA5B-0001 and subsequent

TIME OF COMPLIANCE: Within the next twenty-five (25) hours of flight time  
accumulated subsequent to 9 November 1979

NOTE

THIS SERVICE BULLETIN SUPERSEDES IN ITS  
ENTIRETY SERVICE BULLETIN NO. 165 DATED  
3 AUGUST 1979.

GENERAL

Reports of aileron oscillation have been received from some owners and operators of the AA-5 series aircraft. As a result of these reports, Service Bulletin No. 165 and A.D. 79-16-05, both dated 3 August 1979, were issued to provide for modification of the ailerons in accordance with Service Kit SK-150.

A.D. 79-16-05 has now been amended, with an effective date of 9 November 1979, to permit either a repetitive inspection program or modification in accordance with Service Kit SK-150. The first inspection is required within twenty-five (25) hours of flight time accumulated subsequent to 9 November 1979 and every one-hundred (100) hours thereafter. The repetitive inspection program is not required if the ailerons are modified in accordance with Service Kit SK-150.

This Bulletin includes the new inspection requirements, repeats information pertinent to Service Kit SK-150, and indicates the course of action required if it is desired to replace Service Kit SK-150 modified ailerons with ailerons of the original configuration.

NOTE

AILERONS ON EACH AIRCRAFT MAY BE OF THE  
MODIFIED OR UNMODIFIED CONFIGURATION BUT  
THEY MUST BE A MATCHED PAIR OF THE SAME  
CONFIGURATION.

INSPECTION PROCEDURE

To be conducted within twenty-five (25) hours of flight time accumulated subsequent to 9 November 1979 and every one hundred (100) hours thereafter.

- (1) Inspect aileron trim tabs for loose rivets and general condition. Replace or repair as necessary.
- (2) Inspect the aileron for damage or delamination. Repair and re-balance as necessary per GAC AA-5 series Maintenance Manual.
- (3) Inspect aileron bearings and stops for wear, damage, and secure mounting. Repair per GAC AA-5 series Maintenance Manual.
- (4) Inspect and adjust rigging and cable tension per GAC AA-5 series Maintenance Manual.
- (5) Inspect aileron torque tubes for wear and loose joints. Repair per GAC AA-5 series Maintenance Manual and Service Bulletin No. 163.
- (6) Make appropriate maintenance record entry.

MODIFICATION ALTERNATIVE

If the repetitive inspection program is not conducted, the ailerons of the affected aircraft must be modified in accordance with Service Kit SK-150 within twenty-five (25) hours of flight time accumulated subsequent to 9 November 1979.

Essentially, Service Kit SK-150 provides the instructions to remove the trailing beveled edge of each aileron, rivet the aileron skin to the rear spar, relocate the trim tab, and refinish to match the existing paint on the aircraft.

NOTE

MODIFICATION OF THE AILERONS WILL RESULT IN A CHANGE OF STICK FORCES NECESSITATING RECERTIFICATION OF THE AUTOPILOT. ON THOSE AIRCRAFT WITH AN AUTOPILOT INSTALLED, THE AUTOPILOT MUST BE DEACTIVATED AND PLACARDED IN ACCORDANCE WITH SERVICE KIT SK-150 INSTRUCTIONS. THIS LIMITATION WILL BE LIFTED AND AUTOPILOT ADJUSTMENT AND/OR MODIFICATION INSTRUCTIONS PROVIDED SUBSEQUENT TO AUTOPILOT RECERTIFICATION.

PARTS INFORMATION

The parts necessary for this modification are contained in Service Kit SK-150. The Kit may be obtained from your Gulfstream American Dealer or International Distributor at no cost.

<u>PART NUMBER</u>	<u>DESCRIPTION</u>
SK-150	Service Kit

CREDIT INFORMATION

1. No labor credit will be provided to conduct the indicated inspection inasmuch as the inspection steps are consistent with routine maintenance requirements.
2. A labor allowance of 6.0 hours at the Gulfstream American Dealer/International Distributor's prevailing shop rate will be available for each aircraft modified in accordance with Service Kit SK-150, if the aircraft was in warranty as of 3 August 1979.
3. New or remanufactured ailerons of the original design will be available to replace Service Kit SK-150 modified ailerons on Domestic aircraft on a no-cost exchange basis as outlined below:
  - (a) AA-5 series owners with SK-150 modified ailerons that desire the original design must place their order with an authorized Gulfstream American Dealer.
  - (b) The Gulfstream American Dealer will order the replacement ailerons from Gulfstream American and will be charged the prevailing price.
  - (c) Upon receipt and inspection of the SK-150 modified ailerons, Gulfstream American will issue credit in the amount paid for the replacement ailerons.
  - (d) For aircraft within the warranty period as of the date of this Bulletin, a labor allowance of 3.0 hours at the prevailing shop rate will be available to remove the SK-150 ailerons and install the original design configuration. An additional 0.5 hour will be available to reconnect the autopilot on those aircraft so equipped.

NOTE

SINCE THIS IS AN EXCHANGE PROGRAM, A SMALL NUMBER OF NEW AILERONS WILL BE PRODUCED TO "PRIME THE PUMP". INITIAL ORDERS WILL BE FILLED FROM THIS "POOL", BUT IT IS IMPORTANT THAT THE MODIFIED AILERONS BE RETURNED TO GULFSTREAM AMERICAN

NOTE (Continued)

WITHOUT DELAY TO PERMIT REMANUFACTURE AND REPLENISHMENT OF THE "POOL". DEPENDING UPON THE RATE OF RETURN OF MODIFIED AILERONS, THERE MAY BE A DELAY IN FILLING ALL ORDERS. DEALERS SHOULD REQUEST SPECIFIC SHIPPING DATES OF THE REPLACEMENT AILERONS. ALL ORDERS WILL BE TAKEN ON A FIRST-COME, FIRST-SERVED BASIS.

4. Replacement ailerons will also be available for Export aircraft on the same basis as outlined above except that SK-150 modified ailerons that are replaced by the original design will be retained by the applicable International Distributor for disposition at a later date. Credit will be issued for the price of the replacement ailerons upon receipt by Gulfstream American Light Aircraft Customer Service of a legible copy of the logbook entry showing that the replacement ailerons were installed, the date, and the aircraft serial number.

5. All work must be performed or authorized by a Gulfstream American Corporation Dealer/International Distributor. A completed Warranty Claim, Form GAA 740, must be submitted to the factory for credit allowance prior to July 30, 1980 for Domestic Dealers, and October 31, 1980 for International Distributors.

GULFSTREAM AMERICAN CORPORATION



R. E. Belles, Director  
Light Aircraft Customer Service

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