



**Gulfstream American**

Gulfstream American Corporation  
P.O. Box 2206 Savannah, Georgia 31402

SERVICE BULLETIN NO. 116  
Supersedes Service Letter No. 69-6

DATE: January 9, 1970  
TO: Owners and Operators of Yankee Aircraft  
SUBJECT: Exhaust System Inspection  
MODELS AFFECTED: AA1-0001 through AA1-0159 (See Note 1)

TIME OF COMPLIANCE: Prior to but no later than the next 10 hours of operation and thereafter at each 50 hour interval.

Service Letter No. 69-6, dated December 19, 1969, recommended that the muffler assembly and muffler shroud be inspected for cracks and the rigid tailpipe brace be checked for alignment.

Field reports indicate that certain aircraft within the above serial number range are still experiencing muffler cracks. It is felt that these cracks were present but undetected at the time the muffler was inspected and the rigid brace installed. Further expansion and contraction of the muffler during normal operation may cause the cracks to propagate.

To insure that exhaust fumes are not being introduced into the cabin heat system due to undetected cracks in the muffler, the following must be accomplished on all aircraft listed above as soon as possible but no later than within 10 hours of operation and thereafter at each 50 hour interval.

1. Inspect muffler assembly and muffler shroud for cracks particularly in the area adjacent to the welds inside the shroud at the transition between the muffler and tailpipe. If cracks are found in the muffler or tailpipe, they should be heli-arc welded. (Muffler material is 321 stainless steel). If cracks are found in the muffler shroud, they should be stop drilled or heli-arc welded. (Shroud material is 304 stainless steel). Inspect and repair in accordance with AC43.13-1, Chapter 14, Section 3, Paragraphs 387 and 388 respectively. If thorough visual inspection is not possible, pressure test for leaks in accordance with AC43.13-1, Chapter 14, Section 3, Paragraph 387d.
2. Check alignment between rigid brace and tailpipe and correct as necessary to insure that the tailpipe is not stressed when the brace is installed.
3. Complete attached service reply card showing aircraft hours and repair required and mail card.

A labor allowance of 1.0 hours at the dealer's prevailing shop rate will be credited for performance of the initial inspection only, provided the work is performed or authorized by an authorized American Aviation Corporation Dealer or Representative.

Work must be completed and Warranty Claim Form No. AA-740 submitted to the factory prior to March 16, 1970 for credit allowance.

NOTE 1

ANY AIRCRAFT LISTED ABOVE THAT HAS BEEN MODIFIED BY INSTALLATION OF A NEW OR REMANUFACTURED MUFFLER TOGETHER WITH THE RIGID BRACE MUST BE INSPECTED WITHIN 10 HOURS OF OPERATION. HOWEVER, THE INSPECTION AT 50 HOUR INTERVALS IS NOT MANDATORY PROVIDING A LOG BOOK ENTRY COVERING THE MODIFICATION HAS BEEN MADE.

Aircraft Serial No. AA1-0160 and up are not affected by this Service Bulletin, as no reports have been received indicating cracks in mufflers that were rigidly braced since new. However, routine inspection of all Yankee aircraft should include a thorough inspection of the exhaust system as outlined in the Service Manual

AMERICAN AVIATION CORPORATION

Enclosure: Service Reply Card

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