



Gulfstream American

# SERVICE

SERVICE BULLETIN NO. 167  
"FAA (DER.) APPROVED"

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DATE: 9 November 1979

SUBJECT: MC CAULEY PROPELLER HUB INSPECTION

SERIALS AFFECTED: All AA-5B aircraft equipped with McCauley Propeller Model Part Number 1A170/FFA7563 Serial Number P79742 through P80086

TIME OF COMPLIANCE: Before further flight if the propeller model and serial number are within the affected serial block, unless the inspection requirements contained in this Service Bulletin have been complied with.

## GENERAL

This Service Bulletin requires an immediate inspection of the affected aircraft to determine if cracks exist in the propeller hub. The propeller model and serial number may be found in either the aircraft logbook or directly on the propeller hub.

## INSPECTION

Remove the propeller from the aircraft. The spacer must be removed from the propeller in accordance with the procedures contained in Section 61 (PROPELLERS) of the AA-5 series Maintenance Manual.

Using dye penetrant inspection methods, inspect both sides of the entire propeller hub for cracks.

If NO CRACKS are found during inspection, the propeller may be re-installed on the aircraft utilizing the procedures contained in Section 61 (PROPELLERS) of the AA-5 series Maintenance Manual for the Part Number 5506002-2 spinner installation. If the aircraft is equipped with the new Part Number 5506009-3 spinner, the propeller should be re-installed in accordance with the directions in Service Kit SK-143.

If cracks are discovered during the inspection process, the propeller must be replaced before further flight.

Upon completion of this inspection, the following information must be provided by either telex or telegram:

1. Aircraft Serial Number
2. Propeller TOTAL TIME
3. Spinner Configuration (P/N 5506002-2 or  
P/N 5506009-3 (SK-143))
4. Inspection Results

This information shall be sent directly to:

GULFSTREAM AMERICAN CORPORATION  
LIGHT AIRCRAFT CUSTOMER SERVICE  
P.O. BOX 2206, TRAVIS FIELD  
SAVANNAH, GEORGIA 31402

Telex No. 54670 GULFAM SAV  
Telephone: (912) 964-3229

CREDIT INFORMATION

A labor allowance of 1.5 hours at the Gulfstream American Dealer/International Distributor's Prevailing Shop Rate will be available for each affected aircraft within warranty as of the date of this Service Bulletin. No labor credit will be available for aircraft beyond the warranty period.

All work must be performed or authorized by a Gulfstream American Dealer or International Distributor. A completed Warranty Claim Form GAA 740 must be submitted to Gulfstream American Corporation prior to March 1, 1980 for labor credit allowance.

GULFSTREAM AMERICAN CORPORATION



R. E. Belles, Director  
Light Aircraft Customer Service

REB/canb



SERVICE BULLETIN NO. 167A  
'FAA (DER) APPROVED'

DATE: 7 JANUARY 1980

SUBJECT: MC CAULEY PROPELLER HUB INSPECTION

SERIALS AFFECTED: AA5B-0001 thru AA5B-0940, AA5B-0942 thru AA5B-0975, AA5B-0977, AA5B-0978, AA5B-0979, AA5B-0981, AA5B-0982, AA5B-0983, AA5B-0984, AA5B-0985, AA5B-0987 thru AA5B-0995, AA5B-0997 thru AA5B-1025, AA5B-1027, AA5B-1029, AA5B-1030, AA5B-1031, AA5B-1032, AA5B-1034, AA5B-1035, AA5B-1036, AA5B-1037, AA5B-1038, AA5B-1040, AA5B-1042, AA5B-1043, AA5B-1045 thru AA5B-1053, AA5B-1055 thru AA5B-1065, AA5B-1068, AA5B-1069, AA5B-1071, AA5B-1073 thru AA5B-1078, AA5B-1080 thru AA5B-1087, AA5B-1088, AA5B-1089, AA5B-1090, AA5B-1092, thru AA5B-1098, AA5B-1100, AA5B-1101, AA5B-1103, AA5B-1105, AA5B-1106, AA5B-1107, AA5B-1108, AA5B-1109, AA5B-1111, AA5B-1114, AA5B-1115, AA5B-1117, AA5B-1118, AA5B-1119, AA5B-1121, AA5B-1124, AA5B-1126, AA5B-1127, AA5B-1128, AA5B-1130, AA5B-1131, AA5B-1132, AA5B-1134, AA5B-1135, AA5B-1136, AA5B-1137, AA5B-1138, AA5B-1140, AA5B-1141, AA5B-1143, AA5B-1144, AA5B-1146, AA5B-1147, AA5B-1149, AA5B-1151, AA5B-1154 thru AA5B-1159, AA5B-1162, AA5B-1163, AA5B-1164, AA5B-1165, AA5B-1168, AA5B-1169, AA5B-1171, AA5B-1173, AA5B-1176, AA5B-1178, AA5B-1180, AA5B-1183, AA5B-1186, AA5B-1191 thru AA5B-1201, AA5B-1204, AA5B-1210, AA5B-1211, AA5B-1216, AA5B-1217, AA5B-1220 thru AA5B-1225, AA5B-1235, AA5B-1238, AA5B-1248, AA5B-1251, AA5B-1253, AA5B-1255, AA5B-1257, AA5B-1258, AA5B-1259, AA5B-1260, AA5B-1264, AA5B-1266, AA5B-1295, AA5B-1307, and AA5B-1310.

TIME OF COMPLIANCE: Within the next ten (10) flight hours for all affected aircraft, except those aircraft that have previously complied with the initial inspection requirements contained in Service Bulletin No. 167. The inspection procedures contained in this Service Bulletin are to be repeated every one hundred (100) hours on ALL the affected aircraft with eight hundred (800) hours time-in-service or more on the propeller.

NOTE

THIS SERVICE BULLETIN SUPERSEDES IN ITS ENTIRETY  
SERVICE BULLETIN NO. 167 DATED 9 NOVEMBER 1979.

GENERAL

This Service Bulletin requires an inspection of the affected aircraft to determine if cracks exist in the propeller hub of the McCauley Propeller model/part number 1A170/FFA 7563. The propeller model and serial number may be found in either the aircraft logbook or directly on the propeller hub.

INSPECTION

Remove the propeller from the aircraft. The spacer must be removed from the propeller in accordance with the procedures contained in Section 61 (PROPELLERS) of the AA-5 Series Maintenance Manual.

Using dye penetrant inspection methods, inspect both sides of the entire propeller hub for cracks.

If NO CRACKS are found during inspection, the propeller may be re-installed on the aircraft utilizing the procedures contained in Section 61 (PROPELLERS) of the AA-5 Series Maintenance Manual for the Part Number 5506002-2 spinner installation. If the aircraft is equipped with the new Part Number 5506009-3 spinner, the propeller should be re-installed in accordance with the directions in Service Kit SK-143.

If cracks are discovered during the inspection process, the propeller must be replaced before further flight.

Upon completion of this inspection, the following information must be provided by either telex, telegram, or telephone:

1. Aircraft Serial Number
2. Propeller Serial Number
3. Propeller TOTAL TIME
4. Spinner Configuration (P/N 5506002-2 or  
P/N 5506009-3 (SK-143))
5. Inspection Results

This information should be sent directly to:

GULFSTREAM AMERICAN CORPORATION  
LIGHT AIRCRAFT CUSTOMER SERVICE  
P.O. BOX 2206, TRAVIS FIELD  
SAVANNAH, GEORGIA 31402

Telex No. 54670      GULFAM SAV  
Telephone: (912) 964-3229

CREDIT INFORMATION

A labor allowance of 1.5 hours at the Gulfstream American Dealer/International Distributor's Prevailing Shop Rate will be available for each affected aircraft within warranty as of the date of this Service Bulletin. No labor credit will be available for aircraft beyond the warranty period.

All work must be performed or authorized by a Gulfstream American Dealer or International Distributor. A completed Warranty Claim Form GAA 740 must be submitted to Gulfstream American Corporation prior to April 1, 1980 for labor credit allowance.

GULFSTREAM AMERICAN CORPORATION



R. E. Belles, Director  
Light Aircraft Customer Service

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SERVICE BULLETIN NO. 167B

Gulfstream American considers  
this Service Bulletin mandatory.

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DATE: October 19, 1981

SUBJECT: MC CAULEY PROPELLER HUB INSPECTION

SERIALS AFFECTED: All AA5B Aircraft with McCauley 1A170/FAA 7563 Propellers installed.

TIME OF COMPLIANCE: Within the next ten (10) flight hours for all AA5B aircraft with 800 or more flight hours on the affected propellers or upon reaching 800 flight hours on the affected propeller whichever occurs first. The inspection procedures contained in this Service Bulletin are to be repeated every one hundred (100) flight hours on ALL affected aircraft propellers with 800 or more flight hours on the propeller.

NOTE

THIS SERVICE BULLETIN SUPERSEDES IN ITS ENTIRETY  
SERVICE BULLETIN NO. 167A DATED 7 JANUARY 1980.

GENERAL:

This Service Bulletin requires an inspection of the affected aircraft to determine if cracks exist in the propeller hub of the McCauley Propeller model/part number 1A170/FAA 7563 installed on AA5B aircraft. The propeller model and serial number may be found in either the aircraft logbook or directly on the propeller hub. All AA5B aircraft were delivered with this model propeller.

INSPECTION:

Remove the propeller from the aircraft. The spacer must be removed from the propeller in accordance with the procedures contained in Section 61 (PROPELLERS) of the AA-5 Series Maintenance Manual.

Using dye penetrant inspection methods, inspect both sides of the entire propeller hub for cracks.

If NO CRACKS are found during inspection, the propeller may be re-installed on the aircraft utilizing the procedures contained in Section 61 (PROPELLERS) of the AA-5 Series Maintenance Manual for the Part Number 5506002-2 spinner installation. If the aircraft is equipped with the new Part Number 5506009-3 spinner, the propeller should be re-installed in accordance with the direction in Service Kit SK-143.

INSPECTION (continued)

If cracks are discovered during the inspection process, the propeller must be replaced before further flight.

Upon completion of the initial 800 hour inspection, or on discovery of any cracks, the following information must be provided by either telex, telegram or telephone :

1. Aircraft Serial Number
2. Propeller Serial Number
3. Propeller TOTAL TIME
4. Spinner Configuration (P/N 5506002-2 or  
P/N 5506009-3 (SK-143))

This information should be sent directly to:

GULFSTREAM AMERICAN CORPORATION  
LIGHT AIRCRAFT CUSTOMER SERVICE  
P.O. BOX 2206  
SAVANNAH, GEORGIA 31402

TELEX NO. 54670 GULFAM SAV  
TELEPHONE: (912) 964-3229

CREDIT INFORMATION:

A labor allowance of 1.5 hours at the Gulfstream American Service Center's Prevailing Shop Rate will be available for each affected aircraft within warranty as of the date of this Service Bulletin. No labor credit will be available for aircraft beyond the warranty period.

A completed Warranty Claim Form GAA 740 must be submitted to Gulfstream American prior to December 1, 1981 for labor allowance.

GULFSTREAM AMERICAN CORPORATION

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**Gulfstream Aerospace Corporation**

P.O. Box 2208, Savannah, Georgia 31402-2208  
Telephone: (912) 964-3000 Telex: 546470

# SERVICE

SERVICE BULLETIN NO. 167C

Any change in Gulfstream Aerospace Corporation design made by this Document is FAA Approved. This service release is considered mandatory by Gulfstream Aerospace Corporation.

**DATE:** May 12, 1983

**SUBJECT:** MCCAULEY PROPELLER HUB INSPECTION

**SERIALS AFFECTED:** All AA-5B aircraft with McCauley 1A170/FFA 7563 propellers installed.

**TIME OF COMPLIANCE:** Within the next ten (10) hours time in service for all affected propellers upon reaching 490 or more hours time in service and over 90 hours time in service since having a dye penetrant type inspection, or before reaching 500 hours time in service. The inspection procedures contained in this Service Bulletin are to be repeated every one hundred (100) hours time in service thereafter on the affected propellers.

## NOTE

THIS SERVICE BULLETIN SUPERSEDES IN ITS ENTIRETY SERVICE BULLETIN NO. 167B DATED OCTOBER 19, 1981 TO CHANGE THE TIME OF COMPLIANCE, TO CLARIFY THE INSPECTION PROCEDURE AND TO PROVIDE A REPLACEMENT PROPELLER NOT REQUIRING THIS INSPECTION.

## GENERAL

This Service Bulletin requires periodic inspection of the affected aircraft to determine if cracks exist in the propeller hub of the McCauley Propeller model/part number 1A170/FFA 7563 installed on AA-5B aircraft. The propeller model and serial number may be found in either the aircraft log book or directly on the propeller hub. All AA-5B aircraft were delivered with this model propeller. AA-5B aircraft subsequently equipped with McCauley Propeller model/part number 1A170/KFA 7563 or 1A170E/KFA 7563 are not affected by this inspection requirement.

## INSPECTION

Remove the propeller from the aircraft. The spacer must be removed from the propeller in accordance with the procedures contained in Chapter 61 (PROPELLERS) of the AA-5 Series Maintenance Manual.

Thoroughly remove and clean all paint materials down to the anodized surface and inspect the center relief bore (hole), the six (6) mounting bolt holes and all external surfaces in the entire propeller hub area within four (4) inches of the center of the propeller for cracks using dye penetrant inspection methods.

If NO CRACKS are found during inspection, the propeller may be reinstalled on the aircraft utilizing the procedures contained in Chapter 61 (PROPELLERS) of the AA-5 Series Maintenance Manual for the Part Number 5506002-2 spinner installation. If the aircraft is equipped with the new Part Number 5506009-3 spinner, the propeller should be reinstalled in accordance with the directions in Service Kit SK-143.

If cracks are discovered during the inspection process, the propeller must be replaced before further flight.

Upon discovery of any cracks, the following information must be provided by either telex, telegram or telephone.

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**INSPECTION (Cont'd)**

1. Aircraft Serial Number
2. Propeller Serial Number
3. Propeller TOTAL TIME
4. Spinner Configuration (P/N 5506002-2 or  
P/N 5506009-3 SK-143)

This information should be sent directly to:

GULFSTREAM AEROSPACE CORPORATION  
AIRWORTHINESS & CERTIFICATION  
P.O. BOX 2206  
SAVANNAH, GEORGIA 31402-2206

TELEX NO. 546470 GULFAM SAV  
TELEPHONE: (912) 964-3311

**REPLACEMENT PROPELLER**

The inspection requirements of this Service Bulletin for the McCauley model/part number 1A170/FFA 7563 propeller may be eliminated by replacing it with a McCauley model/part number 1A170/KFA 7563 or 1A170E/KFA 7563 propeller. This replacement propeller requires the use of the part number 5506009-3 spinner which was delivered on aircraft serial numbers AA5B-1049 and subsequent. This spinner was also made available for replacement on earlier serial number aircraft by Service Kit SK-143. Aircraft not having this spinner installed should order Service Kit SK-143 when ordering the replacement propeller. The propeller and spinner should be installed in accordance with either the procedure contained in Chapter 61 (PROPELLERS) of the AA-5 Series Maintenance Manual or the directions in Service Kit SK-143. The weight and arm are 40.22 pounds and 7.84 inches respectively for the 1A170/FFA 7563 propeller installation, and 43.47 pounds and 7.84 inches respectively for the 1A170/KFA 7563 or 1A170E/KFA 7563 propeller installation. Installation of the replacement propeller will require inserting Revision 2 into the Airplane Flight Manual for aircraft having serial numbers AA5B-0973, -0975, -1021, -1029, -1088, -1092, -1101, -1103, -1104, -1108 and subsequent. Installation of the replacement propeller should include inserting Revision 4 into the Pilot's Operating Handbook. Record the installation of the replacement propeller in the aircraft log book.

**PARTS INFORMATION**

Parts may be obtained from your local Gulfstream Aerospace Service Center.

PART NUMBER	DESCRIPTION	QTY. REQUIRED PER AIRCRAFT
1A170/KFA 7563 or 1A170E/KFA 7563	Propeller	1
SK-143	Service Kit	1 (as required)
	Airplane Flight Manual, Revision 2	1 (as required)
	Pilot's Operating Handbook, Revision 4	1