United States of America

Department of Transportation — Federal Aviation Administration

Supplemental Type Certificate

Number SA2601NM

This certificate, issued to Josef G. Brewer

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 23 *of the* Federal Aviation *Regulations.*

Original Product — Type Certificate Number: A16EA

Make: Gulfstream American

Model: AA-5A

Description of Type Design Change:

Installation of AVCO Lycoming IO-360-A1B6 engine, McCauley propeller Model 2D34C215/90DJA-14, Stewart Warner 486 oil cooler, Bendix RSA-5AD1 fuel pump and Wing Tip Landing Light Installation per Ameromod photographs (1) through (9), and installation of Inboard Spar P/N 5102310-502, with gross weight increase to 2400 lbs per Ameromod Corporation Installation Instructions No. AM-100, Item B. Installed 35 amp Teledyne "Gill" G35PS6-11 battery and relocated it to F. S. 181.00. Replaced exhaust system, increased cowl air outlet openings and relocated oil cooler per A.M.E.S. photos 1-12 dated November 21, 1986.

Limitations and Conditions:

Data pertaining to this modification are considered inadequate for duplication in other aircraft. This approval is limited to the installation in Gulfstream American AA-5A, Serial No. AA5A-0342 only. A copy of this Certificate and Addendum No. SA2601NM shall be maintained as part of the permanent records for the modified aircraft. The Model AA-5B Approved Flight Manual shall be used with this aircraft.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: August 6, 1982

Date reissued: December 3, 1987

Date of issuance: June 7, 1984

Date amended April 10, 1986; April 24, 1987

By direction of the Administrator

(Signature)

Acting Manager, Seattle
Aircraft Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding $1,000, or imprisonment not exceeding 3 years, or both.

This certificate may be transferred in accordance with FAR 21.47.

FAA Form 8110-2 (10-68)

United States of America
Department of Transportation—Federal Aviation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number

SUPPLEMENTAL TYPE CERTIFICATE ADDENDUM NO. SA2601NM

The conditions and limitations of Type Certificate Data Sheet No. A16EA apply except where superseded by the following:

This Supplemental Type Certificate Addendum, which is part of STC SA2601NM, precribes the conditions and limitations under which the product for which the STC was issued meets the airworthiness requirements of the Federal Aviation Regulations. A copy of this STC Addendum is required to be maintained as part of the permanent records for the modified aircraft.

SUPPLEMENTAL TYPE CERTIFICATE HOLDER: Josef G. Brewer

I. GULFSTREAM AMERICAN MODEL AA-5A, 4 PCLM (NORMAL AND UTILITY) AS MODIFIED BY STC SA2601NM

Engine:	Avco Lycoming IO-360-A1B6
Fuel:	100/100LL Octane Minimum Grade Aviation Gasoline
Engine Limits:	Takeoff (5 min.) 2700 rpm (200 Hp) @ sea level Maximum Continuous Power - 2700 rpm full throttle
Propeller and Propeller Limits:	McCauley 2D34C215/90DJA-14 Diameter: 78" Maximum; 72" Minimum
Powerplant Instrument Markings:	Oil Temperature: Red Line 245 °F - Maximum Oil Pressure: Green Arc 60 to 90 psi - Normal Operating Range Red Line 90 psi Maximum Tachometer: Red Line 2700 rpm - Maximum Fuel Pressure: Red Line 35 psi - Maximum at sea level

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United States of America
Department of Transportation—Federal Aviation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number

SUPPLEMENTAL TYPE CERTIFICATE ADDENDUM NO. SA2601NM

Powerplant Instrument		Cylinder Head Temperature (Well-Type Thermocouple): Red Line 500°F - Maximum
Wing:		Optional long range wing required
C. G. Range:	Normal:	(+89.0) to (+92.50) at 2,400 lbs. (+81.0) to (+92.50) at 1,920 lbs.
	Utility:	(+83.17) to (+85.32) at 2,050 lbs. (+81.0) to (+85.32) at 1,520 lbs. Straight line variation between points given.
Maximum Weight:		2400 lbs
Tires:		6 ply tires required on main wheels

Placards: The following placards are to be in front and in full view of the pilot:

-NOTICE-

AIRCRAFT MODIFIED WITH LYCOMING
IO-360-A1B6 ENGINE (200 @ 2700 RPM)
CONSULT APPROVED STC ADDENDUM SA2601NM

AVOID CONTINUOUS OPERATION BETWEEN
1400 & 1750 RPM WITH POWER SETTING
BELOW 15" HG MANIFOLD PRESSURE

Approved Battery: Teledyne "Gill" G35PS6-11

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(Continuation Sheet)

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Remove the Operating Limitations Placard and replace with:

THE MARKINGS AND PLACARDS INSTALLED IN THIS AIRPLANE CONTAIN OPERATING LIMITATIONS WHICH MUST BE COMPLIED WITH WHEN OPERATING THIS AIRPLANE IN THE NORMAL CATEGORY. OTHER OPERATING LIMITATIONS WHICH MUST BE COMPLIED WITH WHEN OPERATING THIS AIRPLANE IN THIS CATEGORY OR IN THE UTILITY CATEGORY ARE CONTAINED IN THE MODEL AA-5B AIRPLANE FLIGHT MANUAL

Install placard by fuel filler ports to read:

100/100LL OCTANE MINIMUM GRADE AVIATION GASOLINE

- END -

Any alteration of this certificate is punishable by a fine of not exceeding $1,000, or imprisonment not exceeding 3 years, or both.