United States of America

Department of Transportation — Federal Aviation Administration

Supplemental Type Certificate

Number SA1169NW

This certificate, issued to Maynard C. Crosby

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* February 1, 1965, amended by 23-1 through 23-8

Original Product — Type Certificate Number: A16EA

Make: Gulfstream American

Model: AA-5

Description of Type Design Change: Installation of a Lycoming O-360-A4K engine and a Sensenich 76EM8S10-0-63 propeller in accordance with Ameromod Corporation photographs 1 through 5.

NOTE: The engine mount, controls, induction system, and the spinner are the same as those in the Model AA-5B. The battery is moved from the forward face of the firewall to the rear aft face of the baggage compartment.

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-5, Serial Number AA5-9766, only. A copy of this Certificate and Addendum No. SA1169NW shall be maintained as part of the permanent records for the modified 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: January 8, 1981

Date of issuance: February 4, 1981

Date reissued: April 29, 1991

Date amended:

By direction of the Administrator

David G. Daniel

(Signature)

Manager, Aircraft Modification Branch
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)

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Supplemental Type Certificate

(Continuation Sheet)

Number SA1169NW

SUPPLEMENTAL TYPE CERTIFICATE ADDENDUM NO. SA1169NW

The conditions and limitations of the original specification apply except as follows:

This Addendum, which is part of Supplemental Type Certificate No. SA1169NW, prescribes conditions and limitations under which the STC was issued and meets the airworthiness requirements of the Federal Aviation Regulation 23.

SUPPLEMENTAL TYPE CERTIFICATE HOLDER: Maynard C. Crosby

I. MODEL AA-5 4PCLM (NORMAL/UTILITY CATEGORY) AS MODIFIED BY STC SA1169NW

Engine:	Lycoming O-360-A4K
Fuel:	100/130 minimum grade aviation gasoline Capacity: 37 gallons useable
Engine Limits:	For all operations: 2700 rpm (180 Hp)
Propeller and Propeller Limits:	Sensenich 76EM8S10-0-63 Diameter: 76" maximum; 76" minimum Static Limits: 2275 rpm maximum; 2175 rpm minimum Placards: None
C. G. Range:	Same as Type Certificate Data Sheet No. A16EA.
Maximum Weight:	2200 pounds (Same as TCDS A16EA)
Instrument Markings:	Oil Temperature: 245°F Oil Inlet (red line) Oil Pressure: 60 to 90 psi (green arc) Cylinder head Temperature: 500°F (red line) (Bayonet Thermocouples)
Serial Number Eligible:	AA5-0766

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

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Number SA1169NW

SUPPLEMENTAL TYPE CERTIFICATE ADDENDUM NO. SA1169NW

NOTE 1: Current weight and balance report including list of equipment in the certified empty weight must be in the aircraft.

NOTE 2: In addition to the Placards and Markings required by Type Certificate Data Sheet A16EA, Note 2, apply the following:

a. Adjacent to the fuel filler cap:

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CAUTION

USE 100/130 OCTANE
FUEL OR HIGHER ONLY
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b. In full view of the pilot on the instrument panel:

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NOTICE

AIRCRAFT MODIFIED WITH LYCOMING O-360-A4K ENGINE
(180 HO @ 2700 RPM). CONSULT AA-5B OPERATOR'S
HANDBOOK FOR PERFORMANCE DATA
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NOTE 3: With the described engine and propeller installation, performance will be at at least equal to or better than that given in the original FAA Approved Airplane Flight Manuals for the Gulfstream American (Grumman) AA-5 airplane. (Performance data, EXCEPT for the range information, is similar to the model AA-5B airplane. Consult the Operator's Handbook for the AA-5B for takeoff, climb and cruise information).

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