United States of America

Department of Transportation — Federal Aviation Administration

Supplemental Type Certificate

Number SA1767NM

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-5A

Description of Type Design Change: Alteration of the oil cooler and air induction system of a Gulfstream American Model AA-5A airplane equipped with an Avco Lycoming 0-360-A4K engine and Sensenich 76EM8S10-0-63 propeller in accordance with STC No. SA1186NW. The alterations were accomplished in accordance with Ameromod Corporation Descriptive Data List No. AM-100XX, dated December 3, 1982.

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 Number AA5A-0101, R/N N9701U, only. A copy of this Certificate and Addendum No. SA1767NM shall be maintained as part of the permanent records for the modified aircraft. (Continued on Pages 3 and 4)

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: October 19, 1982

Date reissued: April 29, 1991

Date of issuance: December 3, 1982

Date amended:

By direction of the Administrator

David G. Hinie

(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)

United States of America
Department of Transportation—Federal Aviation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number SA1767NM

SUPPLEMENTAL TYPE CERTIFICATE ADDENDUM NO. SA1767NM

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

This Addendum, which is part of Supplemental Type Certificate SA1767NM, prescribes the 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

1. MODEL AA-5A (NORMAL/UILITY CATEGORY) AS MODIFIED BY STC SA1767NM

Engine:	Lycoming 0-360-A4K
Fuel:	100/130 minimum grade aviation gasoline Capacity: 51 gallons useable
Engine Limits:	For all operations: 2700 RPM (180 HP)
Propeller and Propeller Limits:	Sensenich 76EM8S10-0-63 Diameter: 76" maximum; 76" minimum Placards: None Static RPM: Maximum 2275, Minimum 2125
C.G. Range:	Same as Type Certificate Data Sheet No. A16EA
Maximum Weight:	2200 pounds (Same as TCDS A16EA)
Instrument Markings:	Oil Temperature: 245° Oil Inlet (red line) maximum Oil Pressure: 60 to 90 PSI (green arc) normal operating range Cylinder Head Temperature (Bayonet Thermocouples): 500°F (red line) maximum

NOTE 1: Current weight and balance report including a list of the 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:

CAUTION
USE 100/130 OCTANE FUEL OR HIGHER ONLY

(CON'T ON PAGE 4)

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.

United States of America
Department of Transportation—Federal Aviation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number SA1767NM

SUPPLEMENTAL TYPE CERTIFICATE ADDENDUM NO. SA1767NM

NOTE 2: (Continued)

b. In full view of the pilot on the instrument panel.

NOTICE
AIRCRAFT MODIFIED WITH LYCOMING O-360-A4K ENGINE (180 HP @ 2700 RPM) CONSULT AA-5B OPERATOR'S HANDBOOK FOR PERFORMANCE DATA

NOTE 3: With the described engine and propeller installation, performance will be at least equal to or better than that given in the original FAA Approved Airplane Flight Manuals for the Gulfstream American (Grumman) AA-5A 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.)

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

FAA FORM 8110-2-1 (10-69)

This certificate may be transferred in accordance with FAR 21.47.