

United States of America
Department of Transportation — Federal Aviation Administration
Supplemental Type Certificate

Number SA4387NM

This certificate, issued to Air Mods NW

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 Air Regulations, dated February 1, 1965

Original Product — Type Certificate Number: A11EA

Make: Gulfstream American

Model: AA-1, AA-1A, AA-1B, and AA-1C

Description of Type Design Change: Installation of Lycoming O-320-A, C or E Series engine and a Sensenich 74DM6-0-58/64 or 74DM7-0-58/64 propeller, in accordance with Drawing List No. KD-320-DL, dated January 20, 1989, or later FAA approved revision, together with a 5% increase in take off gross weight for each model aircraft. An option of this modification is the installation of main gear fairings in accordance with Supplemental Drawing List KD-320-FO which is a part of Drawing List KD-320-DL.

Limitations and Conditions: Approval of this change in type design applies to the above model aircraft only. This approval should not be extended to other aircraft of this model on which other previously approved modifications are incorporated unless it is determined that the relationship between this change and any of those other previously approved modifications, including changes in type design, will introduce no adverse effect upon the airworthiness of that aircraft. A copy of this Certificate, Continuation Sheet must 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 26, 1987

Date issued:

Date of issuance: February 28, 1989

Date extended: June 4, 1991; June 13, 1991

By direction of the Administrator



(Signature)
Acting 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.

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LIMITATIONS AND CONDITIONS: (continued)

The weight/center of gravity envelope KD-320-LG-1, -2, -3, or -4 must be attached to the permanent weight and balance data for the Model AA-1, AA-1A, AA-1B, and AA-1C aircraft, respectively.

The conditions and limitations of Type Certificate Data Sheet (TCDS) No. A11EA are applicable except where superseded by the following:

This Supplemental TCDS, which is part of STC No. SA4387NM, prescribes the conditions and limitations under which the product for which the STC was issued meets the airworthiness requirements of the Federal Air Regulations.

SUPPLEMENTAL TYPE CERTIFICATE HOLDER: Air Mods NW

Models AA-1 and AA-1A, (Normal/Utility Category) and Models AA-1B and AA-1C Utility Category) as modified by sTC No. SA4387NM

Engine: Lycoming O-320-A, C, or E Series

Fuel: 80/87 minimum grade aviation gasoline

Engine Limits: 2700 RPM (150 Hp) for all operations

Propeller and
 Propeller Limits: Sensenich 74DM6-0-58/64 or 74DM7-0-58/64 fixed pitch propeller. Static RPM at maximum permissible throttle setting: 58" pitch - not over 2225, not under 2075; 64" pitch - not over 2075, not under 1900. Diameter: Not over 74"; not under 72".

C.G. Range: No change.

Maximum Gross Weight:

Model	Landing	Takeoff
AA-1	1500 lb.	1579 lb.
AA-1A	1500 lb.	1579 lb.
AA-1B	1560 lb.	1642 lb.
AA-1C	1600 lb.	1684 lb.

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Oil Capacity: 8 quarts

Instrument Markings: Oil Pressure - No change
Oil Temp. - No change
Cylinder Head Temp. - No change
Tachometer (Red radial) - AA-1, -1A, -B; @ 2700 RPM
- AA-1C; No change

Placards: (a) Aft of fuel filter (AA-1C only):

Fuel
Min. 80/87 OCT

(b) In full view of the pilot (for specified airplane)

TAKEOFF GROSS WEIGHT FOR THE AA-1 WITH STC
SA4387NM INSTALLED, NORMAL CATEGORY, IS 1579
POUNDS. LANDING WEIGHT - 1500 POUNDS.

-OR-

TAKEOFF GROSS WEIGHT FOR THE AA-1A WITH STC
SA4387NM INSTALLED, NORMAL CATEGORY, IS 1579
POUNDS. LANDING WEIGHT - 1500 POUNDS.

-OR-

TAKEOFF GROSS WEIGHT FOR THE AA-1B WITH STC
SA4387NM INSTALLED, NORMAL CATEGORY, IS 1642
POUNDS. LANDING WEIGHT - 1560 POUNDS.

-OR-

TAKEOFF GROSS WEIGHT FOR THE AA-1C WITH STC
SA4387NM INSTALLED, NORMAL CATEGORY, IS 1684
POUNDS. LANDING WEIGHT - 1600 POUNDS.

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