United States of America

Department of Transportation — Federal Aviation Administration

Supplemental Type Certificate

Number SA1772NM

This certificate, issued to S.A.E. Inc.

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 3 *of the* Civil Air *Regulations.* Effective November 13, 1945.

Original Product — Type Certificate Number: A-769

Make: Republic

Model: RC-3

Description of Type Design Change:

Installation of Lycoming GSO-480-B2G6 engine, Hartzell HC-A3VF-( )/LV8433N propeller, new nacelle, engine mount, modified rear spar, modified aileron cable routing and associated systems in accordance with S.A.E., Inc., Installation Instructions Model 2-LE and Drawing List Report No. 2, dated September 25, 1981, or later FAA approved revisions.

Limitations and Conditions:

Data pertaining to this modification are considered inadequate for duplication in other aircraft. This approval is limited to the installation in Republic RC-3, Serial Number 310 only. A copy of this Certificate, Addendum No. SA1772NM, and S.A.E., Inc., FAA Approved Airplane Flight Manual Supplement dated July 8, 1986, 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: February 8, 1986

Date of issuance: July 8, 1986

Date reissued:

Date amended:

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 SA1772NM

SUPPLEMENTAL TYPE CERTIFICATE ADDENDUM NO. SA1772NM

The conditions and limitations of Type Certificate Data Sheet No. A-769 apply except as follows:

The Supplemental Type Certificate Addundum, which is part of STC prescribes the conditions and limitations under which the product for which the STC was issued meets the airworthiness requirements of the Civil Air 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: S.A.E. Inc.

I. MODELS RC-3, 4PCLM (NORMAL CATEGORY) AS MODIFIED BY STC SA1772NM

Engine: Lycoming GSO-480-B2G6

FUEL: See Engine Data Sheet as follows:

Engine	TC Data Sheet
GSO-480-B2G6	P6EA

Propeller: Hartzell HC-A3VF-1( )/LV8433N (Data Sheet No. P-913-11)

Propeller-Engine Combinations:

The maximum and minimum propeller diameters that can be used from a vibration standpoint are shown below. No reduction below the minimum diameter listed is permissible, since this figure includes the diameter reduction allowable for repair purposes.

(Continued on next Page)

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

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Supplemental Type Certificate

(Continuation Sheet)

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SUPPLEMENTAL TYPE CERTIFICATE ADDENDUM NO. SA1772NM

(Continued from previous page)

HUB MODEL	BLADE MODEL	ENGINE MODEL	MAX DIA. (INCHES)	MIN DIA. (INCHES)	PLACARDS
HC-A3VF-( )	LV8433N	LYC.GSO-480-B2G6	84 5/8	84 5/8	**

**AVOID CONTINUOUS OPERATION ON THE GROUND BETWEEN 1300 & 1650 RPM AND BETWEEN 2100 & 2500 RPM.

Maximum Weight: 3150 lbs.

Powerplant Instrument Markings: Refer to Airplane Flight Manual Supplement

Placards: The following placard is to be in front of and full view of the pilot:

"OPERATION IN NORMAL CATEGORY ONLY"

"IT IS THE RESPONSIBILITY OF THE PILOT TO INSURE OPERATION WITHIN THE APPROVED WEIGHT AND CENTER OF GRAVITY LIMITS AT ALL TIMES. REFER TO THE APPROVED LOADING SCHEDULE."

SERIAL NUMBER ELIGIBLE: 310 only.

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