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United States of America

Department of Transportation — Federal Aviation Administration

Supplemental Type Certificate

Number SA2580NM

This certificate, issued to Alan L. Buchner
970 W. Chandler Ave.
Fresno, CA 93706

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 * *of the* Civil Air *Regulations.* * See page 4 for complete certification basis.

Original Product — Type Certificate Number: 3A15
Make: Beech
Model: H35, S/N D-5310 (Utility Category) N8220D

Description of Type Design Change: Installation of Continental IO-470-N engine and McCauley 2A36C23/84B-0 constant speed propeller in accordance with Buchner Airplane & Engine Co. Report No. 3 dated December 1, 1983.

See Continuation Sheets 3 and 4. FAA Approved Alan L. Buchner Airplane Flight Manual Supplement dated June 19, 1985 is required with this installation.

Limitations and Conditions: Data not suitable for reproduction of installation in other aircraft; therefore, they are satisfactory for Beech K35, Serial No. D-5310 only. No additional modifications of this type are to be approved solely by reference to this Supplemental Type Certificate or to the data submitted therefor. Supplemental Type Certificate Addendum No. SA2580NM is a part of the certificate. A copy of this certificate and Buchner Airplane & Engine Co Report No. 3 shall be maintained as part of the permanent records for this 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: August 31, 1983
Date of issuance: June 19, 1985
Date reissued:
Date amended:

By direction of the Administrator

Marvin F. Rammelsberg
(Signature)
FOR CHARLES I. BLOMER, Manager
Western Aircraft Certification Office
(Title)

FEDERAL AVIATION ADMINISTRATION

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)

(I) 19 June 1985 *Number* SA2580NM

SUPPLEMENTAL TYPE CERTIFICATE ADDENDUM NO. SA2580NM

The conditions and limitations of Aircraft Specification No. 3A15 apply except as follows:

This Addendum, which is part of Supplemental Type Certificate No. SA2580NM, prescribes conditions and limitations under which the product for which the Supplemental Type Certificate was issued meets the airworthiness requirements of the Civil Air Regulations. A copy of this Addendum shall be maintained as part of the modified aircraft's permanent records.

Supplemental Type Certificate Holder: Alan L. Buchner

I - Models H35, (Utility Category), as modified by STC SA2580NM.

Engine	Continental IO-470-N	
Fuel	100/130 Min. Grade Aviation Gasoline	
Engine Limits	Takeoff 2600 RPM, 258HP, Full throttle (one minute) Maximum Continuous 2600 RPM, 240 HP, 26.8" M.P. @ S.L. 2600 RPM, 240 HP, 25.6" M.P. @ 3000 ft. Straight line variation between points given.	
Propeller and Propeller Limits	McCauley	2A36C23E/S84B-0
	Hub Model:	2A36C23E
	Blade Model:	84B-0
	Diameter:	84" Maximum 82" Minimum
	Pitch settings	at 30 inch station: low 13.3° high 29.7°
	Governor:	Woodward 210452
Oil Capacity	10 quarts at Station (+26)	
Powerplant Instrument Markings	Tachometer:	2600 RPM Maximum (Red Radial) 1600 to 2600 RPM (Normal Green Arc)
	Manifold Pressure:	Maximum 29.8" Hg (Red Radial) Caution 26.8" to 29.8" (Yellow Arc) Normal 15" to 26.8" (Green Arc)
	Metered Fuel Pressure (Fuel Flow) Gage:	Minimum - 1.5 psi (Red Radial) Maximum - 17.5 psi (Red Radial) Normal - 6.9 to 21.6 gph (Green Arc)

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Supplemental Type Certificate

(Continuation Sheet)

(I) 19 June 1985 *Number* SA2580NM

SUPPLEMENTAL TYPE CERTIFICATE ADDENDUM NO. SA2580NM

Serial Numbers Eligible: D-5310

Required Equipment: In addition to the equipment applicable and required by Aircraft Specification No. 3A15, the equipment specified by Buchner Airplane & Engine Co. Report No. 3 must be installed as a result of the incorporation of this STC.

Certification Basis: Part 3 of the Civil Air Regulations as amended to May 15, 1956 and FAR 23.955(c) effective December 20, 1973 in lieu of CAR 3435.

NOTE 1: Current weight and balance report including list of equipment included in certificated empty weight, and loading instructions when necessary, must be in the aircraft.

NOTE 2: The following placards must be installed:

In full view of the pilot - Engine Power Limits:

"TAKEOFF 2600 RPM, 258 HP, FULL THROTTLE (one minute)
MAXIMUM CONTINUOUS 2600 RPM, 240 HP, 26.8" H.P. @ S.L.
2600 RPM, 240 HP, 25.6" H.P. @ 3000 ft.
STRAIGHT LINE VARIATION BETWEEN POINTS GIVEN."

On fuel filler caps:

"USE 100/130 OCTANE FUEL ONLY"

At alternator switch/circuit breaker:

"DO NOT TURN OFF ALTERNATOR IN FLIGHT EXCEPT IN CASE OF EMERGENCY"

- END -

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.