United States of America

Department of Transportation — Federal Aviation Administration

Supplemental Type Certificate

Number SA2354NM

This certificate, issued to James F. Adkins

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 4a *of the* Civil Air *Regulations*, as amended to April 7, 1950.

Original Product — Type Certificate Number A-759

Make Bellanca (Champion)

Model 7KCAB

Description of Type Design Change:

Installation of a Lycoming O-360-C1A engine, Hartzell HC-C2YK-4CF/FC7666A-2 propeller, and associated systems in accordance with James F. Adkins Assembly and Installation Instructions #7KCAB.

NOTE: The Model 8K CAB (180 H.P.) engine mount, cowling, baffling, and exhaust system were utilized for this installation.

Limitations and Conditions: Approval of this change in type design applies to the above model aircraft only. This approval should not be extended to 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 previouly approved modifications, including thances in type design, will introduce no adverse effect upon the airworthiness of that aircraft. A copy of this Certificate and Addendum dated March 14, 1984, or later FAA Approved Revision, 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: November 14, 1983

Date reissued:

Date of issuance: March 14, 1984

Date amended: November 14, 1984

By direction of the Administrator

(Signature)

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)

November 14, 1984 *Number* SA2354NM-S

SUPPLEMENTAL TYPE CERTIFICATE ADDENDUM NO. SA2354NM

The conditions and limitations of Type Certificate Data Sheet No. A-759 apply except where superseded by the following:

This Supplemental Type Certificate Addendum, which is part of the STC SA2354NM, 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: James F. Adkins

I. MODEL BELLANCA (CHAMPION) 7KCAB (NORMAL CATEGORY) AS MODIFIED BY STC SA2354NM

Engine:	Lycoming O-360-C1A
Fuel:	91/96 or 100/130 minimum grade aviation gasoline.
Oil Capacity:	8 quarts
Engine Limits:	Rated RPM: 2700 (180 hp) (see placard for RPM restriction)
Propeller:	Hartzell HC-C2YK-4CF/FC7666A-2 Diameter: 74 inches maximum 72 inches minimum Pitch: At 30" STA Low 13.5° High 25.2° No other additional tolerance permitted.
Powerplant Instrument Markings:	Same as specified in Engine Data Sheet E286. EXCEPT RED ARC ON TACHOMETER BETWEEN 2000 & 2250 RPM.
Maximum Weight:	1650 lbs.
Placards:	The following placard shall be placed in full view of the pilot:

AVOID CONTINUOUS OPERATION BETWEEN
2000 AND 2250 RPM

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.*