United States of America

Department of Transportation — Federal Aviation Administration

Supplemental Type Certificate

Number SA639NW

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.*

Original Product — Type Certificate Number: A-759

Make: Bellanca Champion

Model: 7ECA

Description of Type Design Change: Installation of a Lycoming O-320-A2D engine, Sensenich 74DM6S8-1-56 propeller, and larger carburetor fuel inlet lines installed in accordance with Bellanca Drawing No. 7-1289.

Limitations and Conditions: Data pertaining to this modification are considered inadequate for duplication in other aircraft. This approval is limited to the installation on Bellanca Champion 7ECA, Serial Number 443 only. A copy of this Certificate and Addendum No. SA639NW 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 July 5, 1978

Date reissued November 8, 1978

Date of issuance August 3, 1978

Date amended

By direction of the Administrator

Charles E. Schroeder

(Signature)

Chief, Engineering and Manufacturing Branch

(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 SA639NW

SUPPLEMENTAL TYPE CERTIFICATE ADDENDUM NO. SA639NW

The conditions and limitations of Type Certificate Data Sheet No. A-759 apply except where superseded by the following: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 SA639NW, 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 7ECA (NORMAL CATEGORY) AS MODIFIED BY STC SA639NW

Engine:	Lycoming O-320-A2D
Fuel:	80/87 minimum grade aviation gasoline
Oil Capacity:	8 quarts at (-36)
Engine Limits:	Rated RPM: 2700 (150 hp) for all operations
Airspeed Limits:	Level flight or climb 120 mph Glide or dive 162 mph
Propeller:	Sensenich 74DM6S8-1-56 Diameter: 74 inches maximum 72 inches minimum Pitch: 56 inch pitch Static RPM: 2700 maximum no minimum Spacer: 2 inch No other additional tolerance permitted
Powerplant Instrument Markings:	Same as specified in Engine Data Sheet E274-13
Control Surface Movements:	Elevator: Up -28°; Down 24° With items 404 (d) and (e) installed: Up 24°; Down 24°

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

Control Surface Movements Continued:	Elevator Trip Tab: Up 17.5°; Down 44°
	Ailerons: Up 27.5°; Down 19°
	Rudder: Right 25°; Left 25°
C. G. Limits:	(+14.2) to (+18.2) at 1650 lbs. (+10.5) to (+18.2) at 1325 lbs or less
Maximum Weight:	1650 lbs.
Serial Numbers Eligible:	443 only
Placards:	Same as specified in Data Sheet A-759

-END-