

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

*Number* SA37NW

*This certificate, issued to* FARMIN & BROWN

*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 and of the Civil Air Regulations.*

*Original Product — Type Certificate Number:* A759  
*Make:* Champion (Aeronca)  
*Model:* 7FC

*Description of Type Design Change:*  
Installation of a Continental O-200-A engine, a McCauley propeller and a Whelan strobe light on a Champion 7FC aircraft (N7556B). McCauley propeller is model 1B90-CM71-43. The strobe light is a model SA and is mounted on top of the rudder on hinge line.

*Limitations and Conditions:*  
Data not suitable for reproduction in other aircraft; therefore, they are satisfactory for Champion 7FC on a one-only airplane basis for Serial No. 58.

*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:* 5 March 1973

*Date issued:*

*Date of issuance:* 9 April 1973

*Date amended:*



*By direction of the Administrator*  
*James C. Johnson*  
Acting Chief, Engineering and Manufacturing Branch  
(Signature)

(Title)

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

United States of America  
Department of Transportation—Federal Aviation Administration  
**Supplemental Type Certificate**  
(Continuation Sheet)

*Number* SA37NW

SUPPLEMENTAL TYPE CERTIFICATE ADDENDUM NO. SA37NW

The conditions and limitations of the original specification apply except as follows:

This Addendum, which is part of Supplemental Type Certificate No. SA37NW, prescribes conditions and limitations under which the STC was issued and meets the airworthiness requirements of Part 4a and 3 of the Civil Air Regulations. A copy of this Addendum shall be maintained as part of the modified aircraft permanent records.

SUPPLEMENTAL TYPE CERTIFICATE HOLDER: FARMIN & BROWN

I. MODEL 7FC CHAMPION (LANDPLANE - NORMAL CATEGORY) AS MODIFIED BY STC SA37NW

Engine:	Continental O-200-A
Fuel:	80/87 Minimum Grade Aviation Gasoline
Engine Units:	100 hp. @ 2750 rpm - Sea Level
Propeller and Limits:	McCauley 1B90-CM71-43
	Diameter: 71"
	Static RPM: 2400
	Limitation: None
C. G. Range:	10.2" to 17.2" @ 1190#
	15.0" to 17.2" @ 1450#
Maximum Weight:	1450#
Datum:	Wing Leading Edge
Oil Capacity:	5 quarts
Instrument Markings:	Oil Temp: 225°F (Red Line)
	Oil Pressure: 30-60 psi

SERIAL NUMBERS ELIGIBLE:  
No. 58 only

REQUIRED EQUIPMENT: Strobe light shall be installed in accordance with Farmin/Brown Strobe Light Installation Drawing Sheet 1 of 2 dated 3-5-73. In addition, this installation will require the top of wing lift struts and aft face of propeller to be painted dull black.

NOTE 1. Current weight and balance report including list of equipment in the certified empty weight must be in the aircraft.

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