

Supplemental Type Certificate

Number SA1029WE

This certificate, issued to **Robert M. Mathews**
23299 Aldo Road NW
Poulsbo, WA 98370

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 4b of the Civil Air Regulations.

Original Product—Type Certificate Number: A-773
Make: Downer (Bellanca)
Model: 14-13, 14-13-2, -3, and -3W

Description of the Type Design Change: Installation of a McCauley 1A170/DM7654 propeller in accordance with McCauley Industrial Corporation Standard Installation Instructions for 1A170 Met-L-prop with #3 flanged crankshaft.

Limitations and Conditions: Approval of this change in type design applies to the above model aircraft only. This approval should not be extended to other aircraft of these models on which other previously approved modifications are incorporated, unless it is determined that the relationship between this change and any of those previously approved modifications, including changes in type design, will introduce no adverse effect upon the airworthiness of that aircraft. A copy of this Certificate must be maintained as part of the permanent records for the modified aircraft.

If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

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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: April 18, 1962 *Date reissued:* 9/26/00; 10/23/08
Date of issuance: August 10, 1965 *Date amended:* 9/26/00; 10/23/08



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.

Supplemental Type Certificate

(Continuation Sheet)

Number SA1029WE

Robert M. Mathews

Issued: August 10, 1965

Reissued: 9/26/00; 10/23/08

Amended: 9/26/00; 10/23/08

Limitations and Conditions: (cont'd) A copy of these limitations must be carried in the aircraft at all times.

<u>Engine:</u>	Franklin 6A4-165-B3
<u>Engine Limits:</u>	For all operations: 2800 RPM (165 H.P.)
<u>Propeller:</u>	McCauley 1A170-DM7654 Diameter: 76" Maximum 76" Minimum
	Static RPM Limits: 2300 RPM Maximum 2200 RPM Minimum
<u>Powerplant Instrument Markings:</u>	Tachometer: 2800 RPM (Radial Red Line) 2150 to 2250 RPM (Yellow Arc)

NOTE: The remaining instruments are to be marked in accordance with Aircraft Specification A-773, Item 110.

Placards Required: The following placard is required near the tachometer and in full view of the pilot:

“AVOID CONTINUOUS ENGINE OPERATION BETWEEN 2150 TO 2250 RPM.”

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