United States of America

Department of Transportation — Federal Aviation Administration

Supplemental Type Certificate

Number SA3310NM

This certificate, issued to Mark L. Aarhaus

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: A691

Make: Piper

Model: J3C-65

Description of Type Design Change:

Installation of Teledyne-Continental Model O-200 engine with Univair engine mount (Part No. 7-U71163-00) and Wag-Aero 12 gallon wing tank to be used as the main fuel tank. The production fuselage (nose) tank becomes an auxiliary fuel tank to be used for level cruise only. Engine and fuel tank installations are in accordance with "INSTRUCTIONS MLA #1".

Limitations and Conditions:

Data pertaining to this modification are considered inadequate for duplication in other aircraft. This approval is limited to the installation in Piper J3C-65 aircraft, Serial Number 15173 only. A copy of this Certificate and Addendum No. SA3310NM 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 16, 1985

Date of issuance: December 31, 1985

Date reissued:

Date amended: March 6, 1986

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.

FAA Form 8110-2 (10-68)

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SUPPLEMENTAL TYPE CERTIFICATE ADDENDUM NO. SA3310NM

The conditions and limitations of original specifications apply except as follows:

This addendum, which is part of the Supplemental Type Certificate No. SA3310NM, prescribes conditions and limitations under which the STC was issued and meets the airworhtiness requirements of Civil Air Regulations Part 4a. A copy of this addendum shall be maintained as part of the modified aircraft permanent records.

SUPPLEMENTAL TYPE CERTIFICATE HOLDER: Mark L. Aarhaus

Piper Cub, Model J3C-65, 2 PCLM

Engine:	Teledyne Continental 0-200
Fuel:	Minimum Grade 80/87
Engine Limits:	100 HP at 2750 RPM at all times.
Propeller and Propeller Limits:	McCauley 1B90/CM as approved by Type Certificate P-842-13 for Continental 0-200 engine.

Engine Operating Limits, 0-200 Teledyne Continental, as installed in Piper Cub J3C-65, Serial Number 15173, Registration Number N42853.

MAXIMUM PERMISSIBLE TEMPERATURES:

Cylinder Head (Washer Type)	-	525 °F
Cylinder Barrel	-	290 °F
Oil Inlet	-	225 °F (Straight Mineral)
		240 °F (Detergent as approved by MHS-24, See Engine Type Certificate.)

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FAA FORM 8110-2-1 (10-69) *This certificate may be transferred in accordance with FAR 21.47.*

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The following placards are required with this installation:

USE WING TANK FOR
TAKE OFF, LANDING
AND CLIMBING

SOLO FROM REAR
SEAT ONLY

FUEL SYSTEM

Main-Wing Tank, 12 gallons capacity, 1 gallon unuseable.

Auxilliary-Fuselage Tank, 12 gallons capacity, unuseable quantity unchanged from production airplane.

The wing tank shall be used as a main tank and shall be calibrated in the level flight attitude. The fuselage (nose) tank shall be used in level flight only. Tank switching shall be accomplished by turning the desired tank "ON", then turning the other tank "OFF" to assure uninterrupted flow of fuel to the engine. Simultaneous operation of both tanks during normal operation is otherwise not allowed due to the possibility of backfilling the fuselage tank to the point of overflowing.

- END -

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.