



United States of America
Department of Transportation
Federal Aviation Administration

Supplemental Type Certificate

Number: SP04490AT

This certificate issued to: Sensenich Wood Propeller Co., Inc.
2008 Wood Court
Plant City, FL 33563-6305

Certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 23 of Federal Aviation Regulations.

Original Product
Type Certificate Number: 1A2

Make: Piper
Model: See page 4 of 5 on continuation sheet.

Description of Type Design Change:

Installation of Sensenich propeller model 2G0M8/C82BGF:

1. in accordance with Sensenich drawing C-2588, 2G0M8 C82BG Series Assembly, revision 0, or later FAA approved revision, and Sensenich document PA-18-150 2G0Mx C82BGF Installation Instructions Rev0, or later FAA accepted revision, containing Instructions for Continued Airworthiness and approved Airworthiness Limitations;

2. onto airplane models listed above modified with Lycoming O-360 or IO-360 engines (rated at a maximum continuous power output of 180 horsepower at 2700 RPM at sea level) and a fixed pitch or ground adjustable propeller. To provide adequate ground clearance for the propeller, the aircraft shall be equipped with at least one of the following: A) STC approved landing gear extended 3 or more inches from original type design, B) an approved wheel and tire set that provide at least 9 and 3/8 inches between the ground and center of the wheel axle. Specified configuration shall be in accordance with Piper TCDS 1A2 or FAA approved or validated supplemental type certificates.
Continued on page 3 of 5.

Limitations and Conditions:

See page 4 of 5.

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: October 30, 2019 *Date Reissued:*

Date of Issuance: January 7, 2021 *Date Amended:* February 25, 2022

By Direction of the Administrator

Signature:

Title: for Christina M. Underwood
Manager, Atlanta ACO Branch

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 or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).



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INSTRUCTIONS: The transfer endorsement below may be used to notify the appropriate FAA Aircraft Certification Office of the transfer of this Supplemental Type Certificate. The FAA will reissue the certificate in the name of the transferee and forward it to him.

Transfer Endorsement

Transfer the ownership of Supplemental Type Certificate Number: _____

To (Name and address of transferee):

From (Name and address of grantor):

Extent of Authority (if licensing agreement):

Date of transfer:

Signature of grantor: _____

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 or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).



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Supplemental Type Certificate

(Continuation Sheet)

Number: SP04490AT

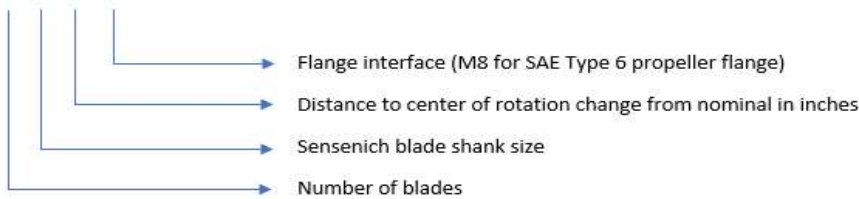
Description of Type Design Change (Continued from page 1 of 5):

Propeller Manufacturer: Sensenich Wood Propeller Co., Plant City, FL 33563
 Propeller Type: Ground Adjustable
 Engine Shaft: Flanged (see NOTE 1)
 Propeller Hub Material: Aluminum
 Blade Material: Composite Carbon-Epoxy and Glass-Epoxy
 Number of Blades: 2
 Hub Models: 2GM08 (see NOTE 1)

Blade Models (See Note 2)	Maximum Continuous		Takeoff		Diameter Limits	Approximate Max Propeller Weight
	HP	RPM	HP	RPM		
C82BGF	180	2700	180	2700	78" to 82"	20 lbs

Note 1: Hub Model Designation

2 G 0 M8



Note 2: Blade Model Designation

C 82 B G F _ - 2



NOTE 3: Pitch Control, Not applicable

NOTE 4: Feather and Reverse, Not applicable

NOTE 5: Left Hand Models, The left-hand version of an approved model propeller is approved at the same rating and diameter listed for right-hand models.

NOTE 6: Interchangability, Not applicable

NOTE 7: Accessories, Propeller may be installed with aluminum spacer and/or composite spinner.

NOTE 8: Shank Fairings, Not applicable

NOTE 9: Special Limits, Not applicable

NOTE 10: Installation, Installs on flanged crankshafts

NOTE 11: Retirement Time, Airworthiness limitations, life limitations, and required inspections are stated in applicable propeller installation instructions.

NOTE 12: Special Notes, Not applicable

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Model:

PA-18, -18S, -18 "105," -18S "105," -18A, -18 "125," -18S "125," -18AS "125," -18 "135," -18A "135," -18S "135," -18AS "135," -18 "150," -18A "150," -18S "150," -18AS "150," -19, -19S, L-18C, L-21A, L-21B

Limitations and Conditions:

1. Approval of this change in type design applies to the above make and model aircraft only and reclassifies the aircraft as level 1 and low speed per 14 CFR 23.2005.
2. This approval should not be extended to other aircraft of these models on which other previously approved modifications are incorporated unless it is determined 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 the aircraft.
3. This STC does not constitute a standalone propeller approval.
4. A copy of this certificate and Sensenich document PA-18-150 2G0Mx C82BGF Installation Instructions Rev0, or later FAA approved revision, must be maintained as part of the permanent records for the modified aircraft.
5. 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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Certification Basis

CAR Part 3, as amended to November 1, 1949;
14 CFR 23, amd 64, sections 23.1529, 23.2000, 23.2005, 2010, A23.1, A23.3, A23.3,
A23.4; and,
for propeller approval and installation aspects only: replace 3.81 with 23.2105, 3.84
with 23.2115(a)(3) and 3.416 with 23.2400(b) and (e).

The accepted propeller standards per §23.2400(b) are ASTM F2506-13, sections 1.1,
1.2, 1.3, 1.4, 4.1, 4.3, 4.4, 5.1, 5.2, 5.3, 5.5, 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 8.1, and 9.1, and
14 CFR 35, amd 10, sections 35.15, 35.35(c), 35.36, and 35.38.

Production Basis: Production Certificate No. 335ce

End

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