

Supplemental Type Certificate

Number **SE4985NM**

This certificate, issued to

**P. Ponk Aviation
1212 North Moore Road
Camano Island, WA 98292**

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 13 of the Civil Air Regulations.

Original Product—Type Certificate Number: E-273-35
Make: Teledyne Continental Motors
Model: O-470-K, -L, -M, -R, -S, & -U

Description of the Type Design Change: Increase engine displacement in accordance with P. Ponk Aviation O-470-50 Engine Report No. 2, Revision D, dated January 3, 2001, or later FAA approved revision.

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

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.

(See Continuation Sheet Page 3)

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: March 10, 1986

Date reissued:

Date of issuance: October 25, 1990

Date amended: March 22, 2001

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.

DepartmentofTransportation_FederalAviationAdministration

Supplemental Type Certificate

(Continuation Sheet)

Number **SE4985NM**

Issued to: **P. Ponk Aviation**

Revised:

Amended: March 22, 2001

Limitations and Conditions: (continued)

The conditions and limitations of Type Certificate Data Sheet No. E-273-35 apply except where superseded by the following:

This Supplemental Type Certificate Addendum, which is part of STC SE4985NM, 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 record for the modified aircraft.

Teledyne Continental engine models O-470-K, -L, -M, -R, -S, and -U as modified by STC SE4985NM

Engine Model:	O-470-50	
Rating, Takeoff 5 Minutes (NOTE 1):	235 HP @ 2700 RPM	
Maximum Continuous (NOTE 1):	235 HP @ 2700 RPM	
Fuel, aviation gasoline min. grade:	100/100LL	
Lubricating Oil:	Per TCM specification MHS-24B for TSIO-520-C.	
Bore and Stroke:	5.25 in. * 4.00 in.	
Displacement:	520 cu. in.	
Compression Ratio:	7.5 : 1	
Weight (dry):	416 lbs.	
Carburetion:	Marvel Schebler MA4-5 modified per P. Ponk Aviation O-470-50 Engine Report No. 2.	
Ignition, dual magnetos.	Two Bendix S6RN-25	0 lbs.
Eligible models and weight change:	One ea. Bendix S6RN-201 & -205	-1 lbs.
	Two Slick 662 or 680	0 lbs.
	Two Slick 6210	-5 lbs.

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Department of Transportation Federal Aviation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number **SE4985NM**

Issued to: **P. Ponk Aviation**

Revised:

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Limitations and Conditions: (continued)

Timing:	22° BTC
Spark Plugs:	AC 273, 283, 283IR, 293 Champion RHB32E, RHB32N, RHB32P, RHB32S, REB32W, RHB33E Auto Lite SL350 Red Seal LJ360
Fuel Pressure Limits:	0.5 p.s.i. min. 6.0 p.s.i. max.

NOTE 1: Rating at sea level, ICAO standard atmosphere, all accessories unloaded, and horsepower measured at the propeller shaft.

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