

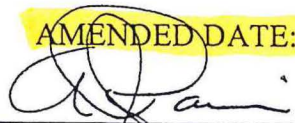


FAA APPROVED MODEL LIST NO. SA2083NM  
PRECISE FLIGHT STANDBY VACUUM SYSTEM  
LIST OF ACTIVE PAGES

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2	March 17, 2000
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27	March 17, 2000

AMENDED DATE: June 29, 2001

FAA Approved:

  
Acting Manager, Seattle Aircraft  
Certification Office

FAA APPROVED MODEL LIST (AML) NO. SA2683NM  
PRECISE FLIGHT, INC.

For  
INSTALLATION OF PRECISE FLIGHT STANDBY VACUUM SYSTEM

Issue Date: May 23, 1988

Item	Aircraft Make	Aircraft Model	Original Type Certificate Number	Certification Basis for Alteration	FAA Approved Airplane Flight Manual Supplement*	FAA Approved Drawing*		AML Amdt. Date
						Number	REV	
49	Great Lakes Aircraft Co. (Chapparral Motors, Inc.)	2T-1A-1 2T-1A-2	A18EA	Aero Bul. 7A (FAR 23)	Supplemental Flight Manual for SA2683NM dated 6/8/98. (SVS III)	SVS III Engineering Drawing 000V0000 And Installation Report No. 50050	Rev.-, dated 3/10/2000 Rev. 25, dated 8/26/99	3/17/2000
50	Great Lakes Aircraft Co. (Chapparral Motors, Inc.)	2T-1A-1 2T-1A-2	A18EA	Aero Bul. 7A (FAR 23)	Supplemental Flight Manual for Push Operated Cable Valve dated 2/4/2000. (SVS V) OR Supplemental Flight Manual for Pull Operated Cable Valve dated 2/4/2000. (SVS V)	SVS V Engineering Drawing 000V0000 And Installation Report No. 08072	Rev.-, dated 3/10/2000 Rev.-, dated 12/22/1999	3/17/2000
51	Grumman Amer. Aviation (AgCat Corp.)	G-164, G-164A, G-164B	1A16	CAR 8.10(a)(a) (CAM 8)	Supplemental Flight Manual for SA2683NM dated 6/8/98. (SVS III)	SVS III Engineering Drawing 000V0000 And Installation Report No. 50050	Rev.-, dated 3/10/2000 Rev. 25, dated 8/26/99	3/17/2000
	Grumman American Aviation (American General Aircraft Holding Co.)	AA-1, AA-1A, AA-1B, AA-1C	A11EA	FAR 23				
		AA-5, AA-5A, AA-5B	A16EA	FAR 23				
52	Grumman Amer. Aviation (AgCat Corp.)	G-164, G-164A, G-164B	1A16	CAR 8.10(a)(a) (CAM 8)	Supplemental Flight Manual for Push Operated Cable Valve dated 2/4/2000. (SVS V) OR Supplemental Flight Manual for Pull Operated Cable Valve dated 2/4/2000. (SVS V)	SVS V Engineering Drawing 000V0000 And Installation Report No. 08072	Rev.-, dated 3/10/2000 Rev.-, dated 12/22/1999	3/17/2000
	Grumman American Aviation (American General Aircraft Holding Co.)	AA-1, AA-1A, AA-1B, AA-1C	A11EA	FAR 23				
		AA-5, AA-5A, AA-5B	A16EA	FAR 23				

\* or later FAA Approved Revision

Department of Transportation—Federal Aviation Administration

# Supplemental Type Certificate

Number **SE1779NM**

This certificate, issued to **Precise Flight, Inc.**  
**63120 Powell Butte Rd.**  
**Bend, OR 97701**

*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 33 of the Federal Aviation Regulations.*

*Original Product—Type Certificate Number:*  
*Make:*  
*Model:*

\*See attached FAA Approved Model List (AML) No. SE1779NM for list of approved airplane models and applicable airworthiness regulations

*Description of the Type Design Change:* Installation of Precise Flight, Inc. **Standby Vacuum System SVS III**, in accordance with Engineering Drawing 000V0000, Revision -, dated March 10, 2000, and Installation Reprot No. 50050, Revision 25, dated August 26, 1999, or later approved revision. Or Installation of Precise Flight, Inc. SVS V, in accordance with Precise Flight, Inc. Engineering Drawing 000V0000, Revision -, dated March 10, 2000 and Installation Instructions 08072, Revision -, dated December 12, 1999, or later FAA approved revision.

*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 this model on which other previously approved modifications are incorporated unless it is determined by the installer that the relationship between this change and any of those other previously approved modifications, including changes in type design, will introduce no adverse effect upon the airworthiness of that aircraft. A copy of this certificate, Addendum No. SE1779NM, and FAA approved AML No. SE1779NM, December 30, 1983, or later FAA approved revision, must be maintained as part of the permanent records for the modified aircraft.

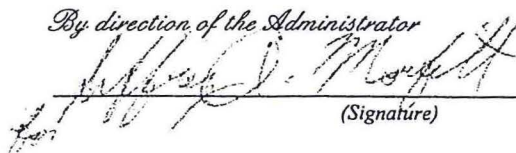
If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

*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:* December 13, 1982  
*Date of issuance:* December 28, 1982

*Date reissued:*  
*Date amended:* December 30, 1983; January 31, 1985;  
 July 25, 1990; January 31, 1991  
 April 21, 2000



*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.

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

*Number* SE1779NM

SUPPLEMENTAL TYPE CERTIFICATE ADDENDUM NO. SE1779NM

The conditions and limitations of Type Certificate Data Sheet as listed in the attached AML apply except where superseded by the following:

This Supplemental Type Certificate Data Sheet, which is part of STC SE1779NM, prescribes the conditions and limitations under which the product for which the STC was issued meets the airworthiness requirements of the Federal Aviation Regulations:

SUPPLEMENTAL TYPE CERTIFICATE HOLDER: Precise Flight, Inc.

Engines: Lycoming  
Fuel: See Type Certificate Data Sheet  
Engine Limits: See Type Certificate Data Sheet  
Placards: Placards and Operating Limits on appropriate Type Certificate Data Sheet apply except as noted herein:

The following placard is mandatory on aircraft that are required to have POH/AFM's and must be located near instrument suction gauge in full view of pilot:

STANDBY VACUUM SYSTEM:  
FOR OPERATING INSTRUCTIONS AND LIMITATIONS SEE SUPPLEMENT  
IN OWNER'S MANUAL OR PILOT'S OPERATING HANDBOOK

NOTE: This STC covers modification of the engine only. Installation of this system in an aircraft requires aircraft installations approval and associated Airplane Flight Manual and Pilot Operating Handbook Supplement for the installation.

For those airplanes which do not have an AFM/POH, the placards provided in each Precise Flight, Inc. Installation Kit must be installed with the modification.

-END-

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

APPROVED MODEL LIST NO. SE1779NM

PRECISE FLIGHT STANDBY VACUUM SYSTEM

LIST OF ACTIVE PAGES

<u>PAGE</u>	<u>AMENDMENT DATE</u>
1	08/22/90
2	12/28/82
3	12/28/82

FAA Approved:

*D. L. Riegin*  
for Assistant Manager, Seattle  
Aircraft Certification Office

Amended: September 9, 1990

FAA APPROVED MODEL LIST (AML) NO. SE1779NM

FOR

INSTALLATION OF STANDBY VACUUM SYSTEM (SVS)

ISSUE DATE: OCTOBER 31, 1989

ITEM	AIRCRAFT MAKE	AIRCRAFT MODEL	ORIGINAL TYPE CERTIFICATE NUMBER	CERTIFICATION BASIS FOR ALTERATION	FAA SEALED DRAWING/DRAWING LIST		AFM SUPPLEMENT NUMBER/DATE	AML AMENDMENT DATE
					NUMBER	REVISION NO. AND DATE		
1	LYCOMING	0-235 Series	E-223	CAR 13 and T.C. E-223	LYC. SVS 0010		12-28-82	4-11-83
2		0-290	E-229	CAR 13 and T.C. E-223	LYC. SVS 0010			
3		0-320	E-274	CAR 13 and T.C. E-274	LYC. SVS 0010			
4		10-320	1E12	CAR 13 and T.C. 1E12	LYC. SVS 0010			
5		0-340	E-277	CAR 13 and T.C. E-277	LYC. SVS 0010			
6		0-350	227	CAR 13 and T.C. 227	LYC. SVS 0010			
7		0-360, LO-360 10-360 L10-360	E-286 1E10	CAR 13 and T.C. E-286	LYC. SVS 0010			5-10-85
8		AE10-360	E1CE	CAR 13 and T.C. E1CE	LYC. SVS 0010			8-22-90
9		T10-360	E-16EA	CAR 13 and T.C. E-16EA	LYC. SVS 0010			
10		T0-360 LTO-360	E26EA	CAR 13 and T.C. E-26EA	LYC. SVS 0010			