

Department of Transportation—Federal Aviation Administration

**Supplemental Type Certificate***Number* SA2162NM

*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 thereof as specified herein meets the airworthiness requirements of Part 21 of the Regulations.*

*Original Product—Type Certificate Number:*

\*See attached FAA Approved Model List (AML)

*Make:*

No. SA2162NM for list of approved airplane models

*Model:*

and applicable airworthiness regulations

*Description of the Type Design Change:* Installation of Precise Flight, Inc. Stand-By Vacuum System (SVS) in accordance with the appropriate Precise Flight, Inc. Engineering Drawing listed on FAA Approved Model List No. SA2162NM, dated April 14, 2000, or later FAA approved revision.

NOTE: As a prerequisite to this change, the engine must be modified in accordance with Precise Flight, Inc. STC No. SE1779NM or SE1780NM, dated December 28, 1982, or later FAA approved revision. Also, modified aircraft must be equipped with a vacuum indicator.

*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, AML No. SA2162NM and the appropriate FAA Approved Flight Manual Supplement (AFMS) listed on AML No. SA2162NM 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:* October 31, 1983*Date received:**Date of issuance:* November 7, 1983*Date amended:*

December 16, 1983; December 7, 1984;

July 25, 1990; April 14, 2000



*By Director of the Administrator*  
  
 (Signature)

Acting Manager, Seattle Aircraft Certification Office

(Title)

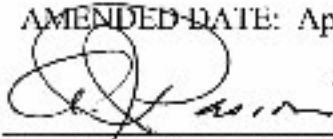
Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

FAA APPROVED MODEL LIST NO. SA2162NM  
PRECISE FLIGHT STANDBY VACUUM SYSTEM  
LIST OF ACTIVE PAGES

| PAGE | AMENDMENT DATE |
|------|----------------|
| 2    | April 14, 2000 |
| 3    | April 14, 2000 |
| 4    | April 14, 2000 |
| 5    | April 14, 2000 |
| 6    | April 14, 2000 |
| 7    | April 14, 2000 |
| 8    | April 14, 2000 |
| 9    | April 14, 2000 |
| 10   | April 14, 2000 |
| 11   | April 14, 2000 |

AMENDED DATE: April 14, 2000

FAA Approved:

  
Acting Manager, Seattle Aircraft  
Certification Office

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For

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Issue Date: May 23, 1988

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|------|---------------|----------------|----------------------------------|------------------------------------|--|--|---|----------------|
|      |               |                |                                  |                                    |  | Number   | REV   |                |
| 1    | Cessna        | 120, 140       | A768                             | CAR 4a                             | Supplemental Flight Manual for SA2162NM dated 8/11/99. (SVS III)   | SVS III Engineering Drawing 000V0000<br>And<br>Installation Report No. 50050 | Rev.-, dated 3/10/2000<br><br>Rev. 25, dated 8/26/99  | 4/14/2000      |
| 2    | Cessna        | 120, 140       | A768                             | CAR 4a                             | Supplemental Flight Manual for Push Operated Cable Valve dated 2/4/2000. (SVS V)<br>OR<br>Supplemental Flight Manual for Pull Operated Cable Valve dated 2/4/2000. (SVS V) | SVS V Engineering Drawing 000V0000<br>And<br>Installation Report No. 08072   | Rev.-, dated 3/10/2000<br><br>Rev.-, dated 12/22/1999 | 4/14/2000      |
| 3    | Cessna        | 140A           | 5A2                              | CAR 3,<br>(CAR 4a)                 | Supplemental Flight Manual for SA2162NM dated 8/11/99. (SVS III)   | SVS III Engineering Drawing 000V0000<br>And<br>Installation Report No. 50050 | Rev.-, dated 3/10/2000<br><br>Rev. 25, dated 8/26/99  | 4/14/2000      |
| 4    | Cessna        | 140A           | 5A2                              | CAR 3,<br>(CAR 4a)                 | Supplemental Flight Manual for Push Operated Cable Valve dated 2/4/2000. (SVS V)<br>OR<br>Supplemental Flight Manual for Pull Operated Cable Valve dated 2/4/2000. (SVS V) | SVS V Engineering Drawing 000V0000<br>And<br>Installation Report No. 08072   | Rev.-, dated 3/10/2000<br><br>Rev.-, dated 12/22/1999 | 4/14/2000      |

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|      |               |  |                                  |                                    |  | Number   | REV   |                |
| 5    | Cessna        | 150, 150A, 150B, 150C, 150D, 150E, 150F, 150G, 150H, 150J, 150K, 150L, A150L, 150M, 152, A152, A150K, 150M | 3A19                             | CAR Part 3                         | Supplemental Flight Manual for SA2162NM dated 8/11/99. (SVS III)   | SVS III Engineering Drawing 000V0000<br>And<br>Installation Report No. 50050 | Rev.-, dated 3/10/2000<br><br>Rev. 25, dated 8/26/99  | 4/14/2000      |
| 6    | Cessna        | 150, 150A, 150B, 150C, 150D, 150E, 150F, 150G, 150H, 150J, 150K, 150L, A150L, 150M, 152, A152, A150K, 150M | 3A19                             | CAR Part 3                         | Supplemental Flight Manual for Push Operated Cable Valve dated 2/4/2000. (SVS V)<br>OR<br>Supplemental Flight Manual for Pull Operated Cable Valve dated 2/4/2000. (SVS V) | SVS V Engineering Drawing 000V0000<br>And<br>Installation Report No. 08074   | Rev.-, dated 3/10/2000<br><br>Rev.-, dated 12/22/1999 | 4/14/2000      |

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|      |               |   |                                  |                                    |  | Number   | REV   |                |
| 7    | Cessna        | 170, 170A, 170B   | A799                             | CAR Part 3                         | Supplemental Flight Manual for SA2162NM dated 8/11/99. (SVS III)   | SVS III Engineering Drawing 000V0000<br>And<br>Installation Report No. 50050 | Rev.-, dated 3/10/2000<br><br>Rev. 25, dated 8/26/99  | 4/14/2000      |
| 8    | Cessna        | 170,170A, 170B  | A799                             | CAR Part 3                         | Supplemental Flight Manual for Push Operated Cable Valve dated 2/4/2000. (SVS V)<br>OR<br>Supplemental Flight Manual for Pull Operated Cable Valve dated 2/4/2000. (SVS V) | SVS V Engineering Drawing 000V0000<br>And<br>Installation Report No. 08072   | Rev.-, dated 3/10/2000<br><br>Rev.-, dated 12/22/1999 | 4/14/2000      |
| 9    | Cessna        | 172, 172A, 172B, 172C, 172D, 172E, 172F, (USAF T-41A) 172I, K, L, M, N, P, 172Q | 3A12                             | Part 23                            | Supplemental Flight Manual for SA2162NM dated 8/11/99. (SVS III)   | SVS III Engineering Drawing 000V0000<br>And<br>Installation Report No. 50050 | Rev.-, dated 3/10/2000<br><br>Rev. 25, dated 8/26/99  | 4/14/2000      |
| 10   | Cessna        | 172, 172A, 172B, 172C, 172D, 172E, 172F, (USAF T-41A) 172I, K, L, M, N, P, 172Q | 3A12                             | Part 23                            | Supplemental Flight Manual for Push Operated Cable Valve dated 2/4/2000. (SVS V)<br>OR<br>Supplemental Flight Manual for Pull Operated Cable Valve dated 2/4/2000. (SVS V) | SVS V Engineering Drawing 000V0000<br>And<br>Installation Report No. 08072   | Rev.-, dated 3/10/2000<br><br>Rev.-, dated 12/22/1999 | 4/14/2000      |

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|      |               |   |                                  |                                    |  | Number   | REV   |                |
| 11   | Cessna        | 175, 175A, 175B, 175C, P172D, R172E, (USAFT-41B, USAFT41-3,-41D) R172F, (USAFT-41D, -41C) R172G, (USAFT-41D), R172H, (USAFT-41D), R172J, R172K, 172RG | 3A17                             | CAR Part 3                         | Supplemental Flight Manual for SA2162NM dated 8/11/99. (SVS III)   | SVS III Engineering Drawing 000V0000<br>And<br>Installation Report No. 50050 | Rev.-, dated 3/10/2000<br>Rev. 25, dated 8/26/99  | 4/14/2000      |
| 12   | Cessna        | 175, 175A, 175B, 175C, P172D, R172E, (USAFT-41B, USAFT41-3,-41D) R172F, (USAFT-41D, -41C) R172G, (USAFT-41D), R172H, (USAFT-41D), R172J, R172K, 172RG | 3A17                             | CAR Part 3                         | Supplemental Flight Manual for Push Operated Cable Valve dated 2/4/2000. (SVS V)<br>OR<br>Supplemental Flight Manual for Pull Operated Cable Valve dated 2/4/2000. (SVS V) | SVS V Engineering Drawing 000V0000<br>And<br>Installation Report No. 08072   | Rev.-, dated 3/10/2000<br>Rev.-, dated 12/22/1999 | 4/14/2000      |
| 13   | Cessna        | 177,177A,177B<br><br>177RG  | A13CE<br><br>A20CE               | FAR 23                             | Supplemental Flight Manual for SA2162NM dated 8/11/99. (SVS III)   | SVS III Engineering Drawing 000V0000<br>And<br>Installation Report No. 50050 | Rev.-, dated 3/10/2000<br>Rev. 25, dated 8/26/99  | 4/14/2000      |
| 14   | Cessna        | 177, 177A, 177B<br><br>177RG  | A13CE<br><br>A20CE               | FAR 23                             | Supplemental Flight Manual for Push Operated Cable Valve dated 2/4/2000. (SVS V)<br>OR<br>Supplemental Flight Manual for Pull Operated Cable Valve dated 2/4/2000. (SVS V) | SVS V Engineering Drawing 000V0000<br>And<br>Installation Report No. 08072   | Rev.-, dated 3/10/2000<br>Rev.-, dated 12/22/1999 | 4/14/2000      |

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|      |               |   |                                  |                                    |  | Number   | REV   |                |
| 15   | Cessna        | 180, 180A, 180B, 180C, 180D, 180E, 180F, 180G, 180H, 180J, 180K   | 5A6                              | CAR Part 3                         | Supplemental Flight Manual for SA2162NM dated 8/11/99. (SVS III)   | SVS III Engineering Drawing 000V0000<br>And<br>Installation Report No. 50050 | Rev.-, dated 3/10/2000<br>Rev. 25, dated 8/26/99  | 4/14/2000      |
| 16   | Cessna        | 180, 180A, 180B, 180C, 180D, 180E, 180F, 180G, 180H, 180J, 180K   | 5A6                              | CAR Part 3                         | Supplemental Flight Manual for Push Operated Cable Valve dated 2/4/2000. (SVS V)<br>OR<br>Supplemental Flight Manual for Pull Operated Cable Valve dated 2/4/2000. (SVS V) | SVS V Engineering Drawing 000V0000<br>And<br>Installation Report No. 08072   | Rev.-, dated 3/10/2000<br>Rev.-, dated 12/22/1999 | 4/14/2000      |
| 17   | Cessna        | 182, 182A, 182B, 182C, 182D, 182E, 182F, 182G, 182H, 182J, 182K, 182L, 182M, 182N, 182P, 182Q, 182R, 182RG, T182, T182RG, T182R | 3A13                             | CAR Part 3                         | Supplemental Flight Manual for SA2162NM dated 8/11/99. (SVS III)   | SVS III Engineering Drawing 000V0000<br>And<br>Installation Report No. 50050 | Rev.-, dated 3/10/2000<br>Rev. 25, dated 8/26/99  | 4/14/2000      |
| 18   | Cessna        | 182, 182A, 182B, 182C, 182D, 182E, 182F, 182G, 182H, 182J, 182K, 182L, 182M, 182N, 182P, 182Q, 182R, 182RG, T182, T182RG, T182R | 3A13                             | CAR Part 3                         | Supplemental Flight Manual for Push Operated Cable Valve dated 2/4/2000. (SVS V)<br>OR<br>Supplemental Flight Manual for Pull Operated Cable Valve dated 2/4/2000. (SVS V) | SVS V Engineering Drawing 000V0000<br>And<br>Installation Report No. 08072   | Rev.-, dated 3/10/2000<br>Rev.-, dated 12/22/1999 | 4/14/2000      |

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| 19   | Cessna        | 185, 185A, 185B, 185C, 185D, 185E, A185E, A185F | 3A24                             | CAR Part 3                         | Supplemental Flight Manual for SA2162NM dated 8/11/99. (SVS III)   | SVS III Engineering Drawing 000V0000<br>And<br>Installation Report No. 50050 | Rev.-, dated 3/10/2000<br>Rev. 25, dated 8/26/99  | 4/14/2000      |
| 20   | Cessna        | 185, 185A, 185B, 185C, 185D, 185E, A185E, A185F | 3A24                             | CAR Part 3                         | Supplemental Flight Manual for Push Operated Cable Valve dated 2/4/2000. (SVS V)<br>OR<br>Supplemental Flight Manual for Pull Operated Cable Valve dated 2/4/2000. (SVS V) | SVS V Engineering Drawing 000V0000<br>And<br>Installation Report No. 08072   | Rev.-, dated 3/10/2000<br>Rev.-, dated 12/22/1999 | 4/14/2000      |
| 21   | Cessna        | 188, 188A, 188B, A188A, A188B, T188C            | A9CE                             | FAR Part 21                        | Supplemental Flight Manual for SA2162NM dated 8/11/99. (SVS III)   | SVS III Engineering Drawing 000V0000<br>And<br>Installation Report No. 50050 | Rev. , dated 3/10/2000<br>Rev. 25, dated 8/26/99  | 4/14/2000      |
| 22   | Cessna        | 188, 188A, 188B, A188A, A188B, T188C            | A9CE                             | FAR Part 21                        | Supplemental Flight Manual for Push Operated Cable Valve dated 2/4/2000. (SVS V)<br>OR<br>Supplemental Flight Manual for Pull Operated Cable Valve dated 2/4/2000. (SVS V) | SVS V Engineering Drawing 000V0000<br>And<br>Installation Report No. 08072   | Rev.-, dated 3/10/2000<br>Rev.-, dated 12/22/1999 | 4/14/2000      |

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|      |               |   |                                  |                                    |  | Number   | REV   |                |
| 23   | Cessna        | 206, P206, -A, -B, -C, -D, -E, TP206A, -B, -C, -D, -E, U206-A, -B, -C, -D, -E, -F, -G, TU206A, -B, -C, -D, -E, -F | A4CE                             | CAR Part 3                         | Supplemental Flight Manual for SA2162NM dated 8/11/99. (SVS III)   | SVS III Engineering Drawing 000V0000<br>And<br>Installation Report No. 50050 | Rev.-, dated 3/10/2000<br><br>Rev. 25, dated 8/26/99  | 4/14/2000      |
| 24   | Cessna        | 206, P206, -A, -B, -C, -D, -E, TP206A, -B, -C, -D, -E, U206-A, -B, -C, -D, -E, -F, -G, TU206A, -B, -C, -D, -E, -F | A4CE                             | CAR Part 3                         | Supplemental Flight Manual for Push Operated Cable Valve dated 2/4/2000. (SVS V)<br>OR<br>Supplemental Flight Manual for Pull Operated Cable Valve dated 2/4/2000. (SVS V) | SVS V Engineering Drawing 000V0000<br>And<br>Installation Report No. 08072   | Rev.-, dated 3/10/2000<br><br>Rev.-, dated 12/22/1999 | 4/14/2000      |
| 25   | Cessna        | 207, 207A, T207, T207A  | A16CE                            | Part 23                            | Supplemental Flight Manual for SA2162NM dated 8/11/99. (SVS III)   | SVS III Engineering Drawing 000V0000<br>And<br>Installation Report No. 50050 | Rev.-, dated 3/10/2000<br><br>Rev. 25, dated 8/26/99  | 4/14/2000      |
| 26   | Cessna        | 207, 207A, T207, T207A  | A16CE                            | Part 23                            | Supplemental Flight Manual for Push Operated Cable Valve dated 2/4/2000. (SVS V)<br>OR<br>Supplemental Flight Manual for Pull Operated Cable Valve dated 2/4/2000. (SVS V) | SVS V Engineering Drawing 000V0000<br>And<br>Installation Report No. 08072   | Rev.-, dated 3/10/2000<br><br>Rev.-, dated 12/22/1999 | 4/14/2000      |

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|      |               |  |                                  |                                    |  | Number   | REV   |                |
| 27   | Cessna        | 210, 210A, 210B, 210C, 210D, 210E, 210F, 210-5 (205), -5A, (205A), T210F, 210G, T-210G, 210H, T-210H, 210J, 205P, T-210J, 210K, T210L, 210L, 210M, T210M, 210N, P210N, T210N, 205T, 210R | 3A21                             | CAR Part 3                         | Supplemental Flight Manual for SA2162NM dated 8/11/99. (SVS III)   | SVS III Engineering Drawing 000V0000<br>And<br>Installation Report No. 50050 | Rev.-, dated 3/10/2000<br><br>Rev. 25, dated 8/26/99  | 4/14/2000      |
| 28   | Cessna        | 210, 210A, 210B, 210C, 210D, 210E, 210F, 210-5 (205), -5A, (205A), T210F, 210G, T-210G, 210H, T-210H, 210J, 205P, T-210J, 210K, T210L, 210L, 210M, T210M, 210N, P210N, T210N, 205T, 210R | 3A21                             | CAR Part 3                         | Supplemental Flight Manual for Push Operated Cable Valve dated 2/4/2000. (SVS V)<br>OR<br>Supplemental Flight Manual for Pull Operated Cable Valve dated 2/4/2000. (SVS V) | SVS V Engineering Drawing 000V0000<br>And<br>Installation Report No. 08072   | Rev.-, dated 3/10/2000<br><br>Rev.-, dated 12/22/1999 | 4/14/2000      |

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|      |               |  |                                  |                                    |  | Number   | REV   |                |
| 29   | Cessna        | P210R, 205U, T210R, 210-5, 210-5A                              | 3A21                             | CAR Part 3                         | Supplemental Flight Manual for SA2162NM dated 8/11/99. (SVS III)   | SVS III Engineering Drawing 000V0000<br>And<br>Installation Report No. 50050 | Rev.-, dated 3/10/2000<br>Rev. 25, dated 8/26/99  | 4/14/2000      |
| 30   | Cessna        | P210R, 205U, T210R, 210-5, 210-5A                              | 3A21                             | CAR Part 3                         | Supplemental Flight Manual for Push Operated Cable Valve dated 2/4/2000. (SVS V)<br>OR<br>Supplemental Flight Manual for Pull Operated Cable Valve dated 2/4/2000. (SVS V) | SVS V Engineering Drawing 000V0000<br>And<br>Installation Report No. 08072   | Rev.-, dated 3/10/2000<br>Rev.-, dated 12/22/1999 | 4/14/2000      |
| 31   | Cessna        | 305A (USAF 0-1A)<br>305C(USAF 0-1E)<br>305D(USAF 0-1F)<br>305F | 5A5                              | Part 23                            | Supplemental Flight Manual for SA2162NM dated 8/11/99. (SVS III)   | SVS III Engineering Drawing 000V0000<br>And<br>Installation Report No. 50050 | Rev.-, dated 3/10/2000<br>Rev. 25, dated 8/26/99  | 4/14/2000      |
| 32   | Cessna        | 305A (USAF 0-1A)<br>305C(USAF 0-1E)<br>305D(USAF 0-1F)<br>305F | 5A5                              | Part 23                            | Supplemental Flight Manual for Push Operated Cable Valve dated 2/4/2000. (SVS V)<br>OR<br>Supplemental Flight Manual for Pull Operated Cable Valve dated 2/4/2000. (SVS V) | SVS V Engineering Drawing 000V0000<br>And<br>Installation Report No. 08072   | Rev.-, dated 3/10/2000<br>Rev.-, dated 12/22/1999 | 4/14/2000      |

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|      |               |   |                                  |                                    |  | Number   | REV   |                |
| 33   | Cessna        | 305B (USAF T0-1D)<br>305E (0-1D OR 01F) | 3A14                             | CAR Part 3                         | Supplemental Flight Manual for SA2162NM dated 8/11/99. (SVS III)   | SVS III Engineering Drawing 000V0000<br>And<br>Installation Report No. 50050 | Rev.-, dated 3/10/2000<br>Rev. 25, dated 8/26/99  | 4/14/2000      |
| 34   | Cessna        | 305B (USAF T0-1D)<br>305E (0-1D OR 01F) | 3A14                             | CAR Part 3                         | Supplemental Flight Manual for Push Operated Cable Valve dated 2/4/2000. (SVS V)<br>OR<br>Supplemental Flight Manual for Pull Operated Cable Valve dated 2/4/2000. (SVS V) | SVS V Engineering Drawing 000V0000<br>And<br>Installation Report No. 08072   | Rev.-, dated 3/10/2000<br>Rev.-, dated 12/22/1999 | 4/14/2000      |
| 35   | Cessna        | 321 (NAVY OE-2)                         | 3A11                             | Part 23                            | Supplemental Flight Manual for SA2162NM dated 8/11/99. (SVS III)   | SVS III Engineering Drawing 000V0000<br>And<br>Installation Report No. 50050 | Rev.-, dated 3/10/2000<br>Rev. 25, dated 8/26/99  | 4/14/2000      |
| 36   | Cessna        | 321 (NAVY OE-2)                         | 3A11                             | Part 23                            | Supplemental Flight Manual for Push Operated Cable Valve dated 2/4/2000. (SVS V)<br>OR<br>Supplemental Flight Manual for Pull Operated Cable Valve dated 2/4/2000. (SVS V) | SVS V Engineering Drawing 000V0000<br>And<br>Installation Report No. 08072   | Rev.-, dated 3/10/2000<br>Rev.-, dated 12/22/1999 | 4/14/2000      |

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