



United States of America
Department of Transportation
Federal Aviation Administration

Supplemental Type Certificate

Number: SA1161SW

THIS COPY OF STC
FOR AIRCRAFT RECORDS
OF PIPER PA 31-350
(AIRCRAFT MAKE/MODEL)
NHASM SIN 31-8152002
AND NO OTHER

This certificate issued to: O&N Aircraft Modifications, Inc.
210 Windsock Lane
Factoryville, PA 18419

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 3 of the Civil Air Regulations.

Original Product - Type Certificate Number:
A8EA

Make: Piper
Model: PA-31; PA-31-325; PA-31-350

Description of Type Design Change:

1. Installation of nacelle fuel tanks in accordance with: (1) Drawing List "A", dated May 15, 1997, for the Model PA-31; (2) Drawing List "B" dated December 3, 1999, for the Model PA-31-325 and PA-31-350, and (3) Drawing List "C", dated December 3, 1999, for the Model PA-31-325 and PA-31-350, or Later FAA approved drawing revisions.

Limitations and Conditions:

1. The installer must determine whether this design change is compatible with previously approved modifications.
2. If the holder agrees to permit another person to use this certificate to alter a product, the holder must give the other person written evidence of that permission.
3. Baggage limited to 50-lb capacity when nacelle tanks carry full fuel.

(See Limitations and Conditions continued on Page 3 of 4)

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, and revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of Application: June 23 1970

Date Reissued: March 5, 2004, June 8, 2015, October 15, 2015

Date of Issuance: June 24, 1970

Date Amended: August 16, 2002 Rev 16

By Direction of the Administrator

KIT SERIAL NO. 35-106
35-107

Signature

Title

Anthony Gallo
Acting Manager
New York Aircraft Certification Office

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).



United States of America
Department of Transportation
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Supplemental Type Certificate

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: SA1161SW

To (Name and address of transferee)

O&N Aircraft Mods, Inc

[REDACTED]
Tunkhannock, PA 18657

From (Name and address of grantor)

O&N Aircraft Modifications, Inc.

[REDACTED]
Factoryville, PA 18419

Extent of Authority (if licensing agreement):

Date of transfer:

June 22, 2016

Signature of grantor: _____

[REDACTED]

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Department of Transportation
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Supplemental Type Certificate

(Continuation Sheet)

Number: SA1161SW

Date Reissued: October 15, 2015

Limitations and Conditions (continued):

Item No.	Serial No.	Luggage Locker	FAA Approved Supplements to Pilot's Operating Handbook and/or FAA Approved Airplane Flight manual	Basic Airplane Flight Manual	Weight and Balance Plot Change Dwg.
1	Model PA-31, 31-2 thru 31-711	STC SA986 SW	25135 dated 6/23/70, 1/11/71, 11/3/76, or 4/8/98	Revised as of 5/25/70	25128 Chg. A
2	Model PA-31 31-712 thru 31-751	STC SA986 SW	25135-4 dated 12/15/72 or 11/3/76	Piper Report 1655	25128 Chg. A
3	Model PA-31 31-712 thru 31-751	Piper	25135-3 dated 12/15/72 or 11/3/76	Piper Report 1686	25242-2
4	Model PA-31 31-752 and up	Piper	25135-2 dated 11/22/72; 11/8/76; or 4/8/98	Piper Report 1702	25242-2
5	Model PA-31-350; 31-5001 and up	Piper	25135-5 dated 2/26/73; 11/3/76; or 4/8/98	Piper Report 1750	25242-2
6	Model PA-31-325; 31-7300932 and up	Piper	26135-6 dated 12/7/76 or 4/8/98	Piper Report 1860	25242-2
7	Model PA-31-350; 31-5001 and up	Piper	25135-5A dated 2/26/73 revised 2/8/80 Bladder Tanks	NA	25345
8	Model PA-31-325; 31-7300932 and up	Piper	25135-6A dated 12/7/76 revised 2/8/80 Bladder Tanks	NA	25347
9	Model PA-31, S/N 31-2 and up	Nayak STC SA986 SW	25135 dated 1/21/82 or 4/8/98, to be used in lieu of Item No. 1 and No. 2	NA	25128 Chg. A

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United States of America
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Supplemental Type Certificate

(Continuation Sheet)

Number: SA1161SW

Date Reissued: October 15, 2015

Limitations and Conditions (continued):

10	Model PA-31, S/N 31-712 and up	Piper	25135-2 dated 1/21/82 or 4/8/98 to be used in lieu of Item No. 3 and No. 4.	NA	25242-2
11	Model PA-31, 350, S/N 31-5001 and up	Piper	25135-5 dated 1/21/82 or 4/8/98 to be used in lieu of Item No. 5.	NA	25242-2
12	Model PA-31- 325; S/N 31- 7300932 and up	Piper	25135-6 dated 1/21/82 or 4/8/98, to be used in lieu of Item No. 6.	NA	25242-2
13	Model PA-31- 350; S/N 51- 5001 and up	Piper	25135-5A dated 1/21/82; to be used in lieu of Item No. 7, Bladder Tanks	NA	25345
14	Model PA-31- 325; S/N 31- 7300932 and up	Piper	25135-6A dated 1/21/82; to be used in lieu of Item No. 8, Bladder Tanks	NA	25347

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US Department
of Transportation
Federal Aviation
Administration

MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

Form Approved
OMB No. 2120-0020
2/28/2011

Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. §44701). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a))

1. Aircraft	Nationality and Registration Mark N400JM	Serial No. 31-8152002		
	Make Piper	Model Navajo	Series PA31-350	
2. Owner	Name (As shown on registration certificate) Marc Inc	Address (As shown on registration certificate)		
		Address [REDACTED]	City [REDACTED]	State MS Country USA

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
☐	☒	AIRFRAME	_____	(As described in Item 1 above)	_____
☐	☐	POWERPLANT			
☐	☐	PROPELLER			
☐	☐	APPLIANCE	Type _____ Manufacturer _____		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency	
Name Billy H Miller Jr		☒ U. S. Certificated Mechanic	Manufacturer
Address [REDACTED]		☐ Foreign Certificated Mechanic	C. Certificate No.
City [REDACTED]	State MS	☐ Certificated Repair Station	
Zip 39041	Country USA	☐ Certificated Maintenance Organization	[REDACTED]

D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Extended range fuel
per 14 CFR Part 43
App. B ☐

Signature/Date of Authorized Individual
[REDACTED] 11/15/12

7. Approval for Return to Service

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is

☒ Approved ☐ Rejected

BY	FAA Fit. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee	Repair Station	Inspection Authorization	
Certificate or Designation No. 428-29-0395		Signature/Date of Authorized Individual [REDACTED]		

Work completed for [N400JM] on

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

N400JM

6/15/17

8. Description of Work Accomplished

Nationality and Registration Mark

Date

O&N nacelle fuel system installed left and right wing lockers. I/A/W SA1161SW Drw.list 1/28/80. SB number 2 mod for aux vent system C/W. FAA POH Supplement 25135-5A dated 1-21-82 placed in records and Pilot Flight Manual. All work performed I/A/W STC instructions and AC 41.13.1B as reference.

----- END -----

[] Additional Sheets Are Attached

O&N AIRCRAFT MODIFICATIONS, INC.
[REDACTED] Seamans Airport
Factoryville, PA 18419 USA
[REDACTED]

25135-5

AIRPLANE FLIGHT MANUAL SUPPLEMENT NO. 25135-5
FOR

Piper Model PA-31-350, S/N 31-5001 and Up

with

Nayak Auxiliary Nacelle Fuel Tanks

Registration No. N400JM

Serial No. 31-8152002

This supplement must be attached to the Piper PA-31 FAA approved Flight Manual when Nayak Auxiliary Nacelle Tanks have been installed in accordance with STC SA1161SW.

The information contained herein supplements or supersedes the information of the basic Airplane/Rotorcraft Flight Manual only in those areas listed.

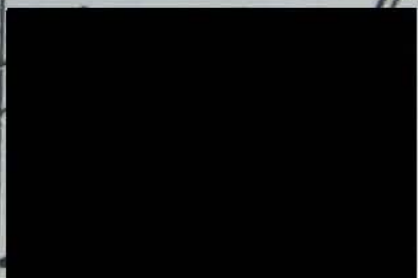
For Limitations, Procedures and Performance Data not contained in this supplement, consult the basic Airplane/Rotorcraft Flight Manual.

FAA APPROVED: [REDACTED]

Aircraft Certification Office
2601 Meacham Blvd.
Fort Worth, TX 76137

DATE: 6-4-2015

LOG OF REVISIONS

REV.	DESCRIPTION	PAGES REVISED	APPROVED BY	DATE
1R	Flight Manual Supplement	None	Jack E. Owens	02/26/1973
1	Installation of Piper Vent Information, Delete Piper Vent Part Nos.	Page 1	Jack E. Owens	11/03/1976
2	Revised Supplement Information, Delete Piper Vent Part Nos.	Page 1	Jack E. Owens	01/21/1982
3	Installation of Nayak Non-Icing Vents	Page 1	A. A. Mercer	04/08/1998
4	Change of Ownership Information and Address add "or left side of cockpit instrument panel" to transfer switch location listed under Normal Operating Procedures.	All		6-4-2015

FAA APPROVED

DATE: JUN 04 2015

Page 2 of 3

INTRODUCTION

Installation of Nayak Aviation Auxiliary Fuel Tanks on Piper PA31-350 aircraft.

OPERATING LIMITATIONS

- A. Do not transfer fuel until main tanks are at least one-half full or less.
- B. Previously approved operation in icing conditions prohibited unless Piper non-icing vents or Nayak non-icing vents are installed at Nayak vent locations under this STC.

NORMAL OPERATING PROCEDURES

Transfer control switches are located on left side of pedestal or left side of cockpit instrument panel.

Approximately 55 minutes are required to transfer all the fuel out of the nacelle tanks.

EMERGENCY PROCEDURES: NO CHANGE

PERFORMANCE: NO CHANGE

PLACARDS

- A. Adjacent to switches:
DO NOT TRANSFER UNTIL MAIN TANK IS BELOW HALF FULL
- B. Inside Nacelle locker door:
BAGGAGE LIMITED TO 50 POUNDS CAPACITY WHEN NACELLE TANKS CARRY FULL FUEL

WEIGHT AND BALANCE DATA

Additional position has been provided for regular Navajo weight and balance plotter to be used in convenient manner.

Nacelle tanks C.G. location: 144.7 in. aft datum

GALLONS	FUEL MOMENT	
	WEIGHT	MOMENT
54	324	46882
50	300	46410
40	240	34728
30	180	26046
20	120	17364

FAA APPROVED
JUN 04 2015

DATE: _____