

N13839

1970 Piper Turbo Aztec D

FAA Form 337s

MSN: 27-4480



Prepared by the worldwide aviation specialists at RidgeAir, Inc.



U.S. 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 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 N13839	Serial No. 27-4480	
	Make Piper	Model PA-23-250	Series Aztec
2. Owner	Name (As shown on registration certificate) Deaton John G	Address (As shown on registration certificate)	
		Address PO Box 7007	
		City Petaluma	State CA
		Zip 94955-7007	Country USA

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME		(As described in item 1 above)	
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency	
Name	Michael Tillman C/O Mangon Aircraft Inc.	<input checked="" type="checkbox"/> U.S. Certificated Mechanic	Manufacturer
Address	501 Sky Ranch Dr.	Foreign Certificated Mechanic	C. Certificate No.
City	Petaluma State CA	Certificated Repair Station	2845176
Zip	94954 Country USA	Certificated Maintenance Organization	

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	<input type="checkbox"/>	Signature/Date of Authorized Individual	Michael Tillman 8/13/2014
--	--------------------------	---	---------------------------

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 <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA Flt. Standards Inspector	Manufacturer	Maintenance Organization	Person Approved by Canadian Department of Transport	
	FAA Designee	Repair Station	<input checked="" type="checkbox"/> Inspection Authorization	Other (Specify)	
Certificate or Designation No.		Signature/Date of Authorized Individual			
2845176		Michael Tillman 8/13/2014			

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.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N13839

Nationality and Registration Mark

8/13/2014

Date

CONCORDE BATTERY INSTALLATION

1. Removed OEM Gill battery.
2. Installed Concorde VRSLA series battery in original location per the approved FAA STC number SA1147WI and Piper Aircraft installation instructions.
3. Weight & balance recorded and made part of the aircraft records.
4. Instructions for Continued Airworthiness made part of aircraft records.

*****NOTHING FOLLOWS*****

☐ Additional Sheets Are Attached



U.S. 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 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 N13839	Serial No. 27-4480	
	Make Piper	Model PA-23-250	Series Aztec
2. Owner	Name (As shown on registration certificate) Deaton John G	Address (As shown on registration certificate) Address PO Box 7007 City Petaluma State CA Zip 94955-7007 Country USA	

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME		(As described in item 1 above)	
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type Manufacturer		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency	
Name	Michael Tillman C/O Mangon Aircraft Inc.	<input checked="" type="checkbox"/> U.S. Certificated Mechanic	<input type="checkbox"/> Manufacturer
Address	501 Sky Ranch Dr.	<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.
City	Petaluma State CA	<input type="checkbox"/> Certificated Repair Station	2845176
Zip	94954 Country USA	<input type="checkbox"/> Certificated Maintenance Organization	

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 Michael Tillman 8/13/2014

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 <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA Flt. Standards Inspector	Manufacturer	Maintenance Organization	Person Approved by Canadian Department of Transport	
	FAA Designee	Repair Station	Inspection Authorization	Other (Specify)	
Certificate or Designation No. 2845176		Signature/Date of Authorized Individual <u>Michael Tillman</u> 8/13/2014			

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.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N13839

Nationality and Registration Mark

8/13/2014

Date

INSTALLATION OF DOOR STEWARD DOOR ASSIT GAS SPRING

1. Removed OEM door slide guide system.
2. Installed Door Steward door assit gas spring modification IAW FAA approved STC number SA1120SE per Door Steward instruction sheet # MVA-B40C10M&O section A2, 1 thru 18, on aircraft main cabin door.
3. Item added to aircraft equipment list.
4. Weight & Balance change negligible.
5. Instructions for Continued Airworthiness made part of aircraft records.

*****NOTHING FOLLOWS*****

☐ Additional Sheets Are Attached



US Department
of Transportation
Federal Aviation
Administration

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

Form Approved
OMB No. 2120-0020
11/30/2007

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 US N13839	Serial No. 27-4480	
	Make Piper	Model PA-23-250	Series
2. Owner	Name (As shown on registration certificate) Deaton, John G.	Address (As shown on registration certificate) Address P.O. Box 7007	
		City Petaluma	State CA
		Zip 94955	Country USA

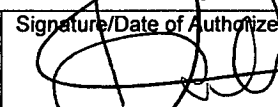
3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	_____	(As described in Item 1 above)	_____
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement


A. Agency's Name and Address		B. Kind of Agency	
Name _____	City _____ State _____ Zip _____ Country _____	<input type="checkbox"/> U.S. Certified Mechanic	<input type="checkbox"/> Manufacturer
Address _____		<input type="checkbox"/> Foreign Certified Mechanic	<input type="checkbox"/> C. Certificate No. _____
		<input type="checkbox"/> Certified Repair Station	
		<input type="checkbox"/> Certified Maintenance Organization	

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 <input type="checkbox"/>	Signature/Date of Authorized Individual  8-12-10
--	--

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	X Inspection Authorization	Other (Specify)
Certificate or Designation No.		Signature/Date of Authorized Individual  8-12-10		

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.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

US N13839

Nationality and Registration Mark

8-12-10

Date

A summary of the alteration done to the aircraft is as follows:

This alteration performed I.A.W. STC SA09123AC-D dated 10/12/1995 and last amended 8/29/2007, listing this particular Model 23-250 Piper.

Equipment Installed:

Installed S-Tec System 55X Autopilot I.A.W. S-Tec Installation manuals listed in Documentation section below.

The system is composed of the following components:

ST-607-55X System, including:

P/N	Name	Certification	Installed at
TK-607	Autotrim	TSO C9c	N/A
0105-T8	Trim Servo	TSO C9c	f.s. 171.37
64121-01	Indicating Encoder	TSO C10b, C88	f.s. 65
ST-645	LCD Annunciator	TSO C9c, C52s	f.s. 65
01192-6-8T	Prgmr/Computer	TSO C9c, C52a	f.s. 65
0105-R9	Roll Servo	TSO C9c	f.s. 91.50, right engine nacelle
0107-P1	Pitch Servo	TSO C9c	f.s. 192.37
6405-14L	Turn Coordinator	TSO C3b	f.s. 65
0111	Absolute Pressure Transducer (PMA)		f.s. 211.0
ST-1000	Altitude Selector	TSO C9c	f.s. 65

and install kits and cable assemblies supplied by the manufacturer for this installation.

Performed an electrical load analysis, and the total current draw by all equipment does not exceed 80% of the supply current available.

Interfaces:

Connected System 55X power input to a new 5A circuit breaker for power source.

Interfaced 55X to existing GNS 430W GPS/Comm, p/n 013-00235-00, GNS 530W GPS/Comm p/n 011-01065-00 and existing KI 525A through existing Nav select relay for steering information. Interfaced S-Tec Indicating Encoder and SA-200 Altitude Selector to the 55X for altitude information.

Performed post installation configuration and test procedures I.A.W. Installation Manual listed below.

Applicable alteration documentation:

See next sheet.

☒ Additional Sheets Are Attached

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.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

US N13839

Nationality and Registration Mark

8-12-10

Date

Applicable alteration documentation:

S-Tec System 55X STC Installation Manual p/n ST-607, Rev. 3
S-Tec SA-200 Altitude Selector Installation Bulletin p/n ST-1000 Rev. 4
S-Tec ST-645 Annunciator Installation Bulletin p/n ST-645, Rev 9
Garmin 400W Series Installation Manual p/n 190-00356-02 Rev. G

Radio Strapping - AC 43.13-2B Chapter 2 Section 201, 202, 203
Structural Data - AC 43.13-2B Chapter 1 Section 103, 105, 108, 109, 111, 112
Weight and Balance - AC 43.13-1B Chapter 10 Section 1 Par 10-2
Wire is inspected to conform to AC 43.13-1B Chapter 11 Sect 1 11-1, 2, 3
Equipment Installation AC 43.13-1B Chapter 11 Section 3 Par 11-30 - 32
Electrical Load Determination AC 43.13-1B Chapter 11 Sect 3 Par 11-36
Circuit Breaker Selection AC 43.13-1B Chapter 11 Section 4 Par 11-47-51
Wire Size AC 43.13-1B Chapter 11 Section 5 Par 11-66 through 69
Environmental Protection AC 43.13-1B Chapter 11 Section 9, Section 10

Documents for aircraft records:

The aircraft was weighed after alterations were completed.
Updated Aircraft Equipment List
Inserted Instructions for Continued Airworthiness, S-Tec Report 81258, for the System 55X and 01282-(01)-(01) p/n 81620, for the Altitude Selector and inserted in aircraft records.
Attached STC Permission Letter
Inserted Airplane Flight Manual Supplements for 55X (p/n ST-607), and SA-200 (p/n ST-1000) into aircraft records

☐ Additional Sheets Are Attached



US Department
of Transportation
Federal Aviation
Administration

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

Form Approved
OMB No. 2120-0020
11/30/2007

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 US N13839	Serial No. 27-4480	
	Make Piper	Model PA23-250	Series
2. Owner	Name (As shown on registration certificate) Deaton, John G.	Address (As shown on registration certificate)	
		Address P.O. Box 7007	
		City Petaluma	State CA
		Zip 94955	Country USA

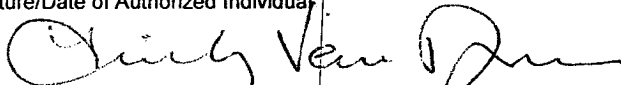
3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME		(As described in Item 1 above)	
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency	
Name Timothy Vernon Rogers DBA Calibro Avionics		U.S. Certificated Mechanic	
Address 561 Sky Ranch Dr Suite I Hangar A18		Foreign Certificated Mechanic	
City Petaluma State CA		X	Certificated Repair Station
Zip 94954 Country USA			Certificated Maintenance Organization
		V94R452Y	

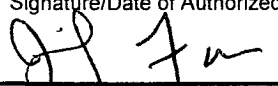
D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and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

Extended range fuel per 14 CFR Part 43 App. B <input type="checkbox"/>	Signature/Date of Authorized Individual  19 AUG 10
--	---

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	X Inspection Authorization	Other (Specify)

Certificate or Designation No. 2755590	Signature/Date of Authorized Individual  Aug. 19 2010
---	---

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.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

US N13839

17 Aug 2010

Nationality and Registration Mark

Date

A summary of the alteration done to the aircraft is as follows:

Equipment installed:

Garmin GNS 430W GPS-WAAS/Com/Nav/MFD PN 011-00433-00:

Com Transmitter TSO C37d Class 4&6
Glideslope TSO C34e
VOR TSO C40c
MFD TSO C113

Com Receiver TSO C38d Class C&E
Localizer TSO C36e
GPS/WAAS TSO C146a

Qty. 2 Garmin GA35 Antennas PN 013-00235-00

TSO C146a

Garmin GI106A p/n 013-00049-01

TSO C40c, C36e, C34e

Garmin GNS 530W GPS-WAAS/Com/Nav/MFD PN 011-01065-00:

Com Transmitter TSO C37d Class 4&6
Glideslope TSO C34e
VOR TSO C40c
MFD TSO C113

Com Receiver TSO C38d Class C&E
Localizer TSO C36e
GPS/WAAS TSO C146a

Garmin GDL 69A

PMA

Garmin GA 55

PMA

Attached documentation:

GNS430W and GNS530W installed I.A.W. 400W/500W Series STC SA01933LA -D and Approved Model List

GDL 69/69A installed I.A.W. STC SA 01487SE-D and Approved Model List

GA 35 installed I.A.W. STC SA01695SE and Approved Model List

See attached manufacturer's letters -

Permission to use STC for Garmin 400W/500W Series GPS-WAAS Navigation System

Permission to use STC for Garmin GDL 69A.

Permission to use STC for Garmin Aviation Antennas.

Equipment interfaced to:

Avionics buss using Klaxon MS 26574-X PN 7274-2—X circuit breakers throughout. All breaker amperage ratings are as specified in appropriate installation manuals for 14 VDC supply voltage.

GNS 530W interfaced to:

Existing Bendix/King KI 525A HSI

Existing Garmin 340 Audio Panel for Audio functions.

An existing S-TEC 55X Autopilot via Nav1 source switch and associated switching relay I.A.W. 500W Series

Installation Manual Page H-42 Fig. H-27.

The Garmin 430W is connected to the S-TEC 55X as Nav2 source.

An existing KI229 RMI via Nav1 source select switch I.A.W. 500W Series Installation Manual Page H-34 Fig. H-20.

The Garmin 430W is connected to the KI229 as Nav2 source.

GNS 430W interfaced to:

S-TEC 55X, KI 229, as described above.

Garmin GI106A for CDI information I.A.W. 400W Series Installation Manual Page H-14 Fig. H-7.

Existing Garmin 340 Audio Panel for Audio functions.

The 430W and 530W were both interfaced to GA 35 antennas installed at FS 88.4 to right and left of center line utilizing doublers I.A.W. STC Antenna Installation Manual and AC 43.13-2B.

GNS 430W and GNS 530W installed in the center radio stack at FS 62.

The 430W and 530W meet the requirement of TSO 146a annunciations field of view as outlined in Garmin 400W Series Installation Manual Section 2.5.1.1, 2.5.1.2.

☒ Additional Sheets Are Attached

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.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

US N13839

Nationality and Registration Mark

17 Aug. 2010

Date

The GDL 69A was installed at FS 23 in the nose on an original equipment shelf.

The GDL 69A was installed I.A.W. Installation Manual listed below and interfaced to the GNS 530W for weather information and the Garmin GMA 340 Audio Panel for music.

The GDL 69A GA55 antenna was installed utilizing a doubler I.A.W. STC Antenna Installation Manual and AC43.13-2B.

Radios in the stack were strapped together and the straps secured at the top to a flange on the underside of the glare shield.

Compass swing performed.

Electrical load analysis performed and the equipment in the airplane including newly installed did not exceed 80% of the total available supply current.

Applicable alteration documentation:

400W Series Installation Manual No. 190-00356-02 Rev. G Dec 2008

500W Series Installation Manual No. 190-00357-02 Rev. G Dec 2008

GDL 69/69A Installation Manual No. 190-00355-02 Rev. J Jun 2009

STC Antenna Installation Manual PN 190-00569-00 Rev. E Nov 2006

Garmin GI106A Installation Manual PN 190-00180-00 Rev C Apr 01

Radio Strapping - AC 43.13-2B Chapter 2 Section 201, 202, 203

Structural Data - AC 43.13-2B Chapter 1 Section 103, 105, 108, 109, 111, 112

Antenna installation - AC 43.13-2B Chapter 3 Section 303 - 309

Weight and Balance - AC 43.13-1B Chapter 10 Section 1 Par 10-2

Wire is inspected to conform to AC 43.13-1B Chapter 11 Sect 1 11-1, 2, 3

Equipment Installation AC 43.13-1B Chapter 11 Section 3 Par 11-30 - 32

Electrical Load Determination AC 43.13-1B Chapter 11 Sect 3 Par 11-36

Circuit Breaker Selection AC 43.13-1B Chapter 11 Section 4 Par 11-47-51

Wire Size AC 43.13-1B Chapter 11 Section 5 Par 11-66 through 69

The aircraft was weighed after alterations were completed.

Equipment List revised.

Instructions for Continued Airworthiness prepared for installed equipment and inserted in aircraft records.

Airplane Flight Manual Supplements prepared and inserted into aircraft records.

A functional ground test and functional flight evaluation was performed in accordance with AC 138A Par. 22 and 23.

GPS Flight test accomplished on 20 AUG 2010. Inserted Calibro Avionics Form CA026 - GPS

Functional Ground and Flight Evaluation in aircraft records.

☐ Additional Sheets Are Attached

United States of America
Department of Transportation -- Federal Aviation Administration

Supplemental Type Certificate

Number SA01933LA-D

This certificate issued to Garmin International, Inc.
1200 East 151st Street
Olathe, KS 66062

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 the Federal Aviation Regulations.*

Original Product Type Certificate Number: *See attached Approved Model List (AML)
Make No. SA01933LA-D for list of approved aircraft
Model Models and applicable airworthiness regulations.

Description of Type Design Change. Installation of Garmin Model 400W / 500W Series GPS-WAAS Navigation System in accordance with FAA Approved Garmin 400W Series Master Data List, Drawing No.: 005-C0221-00, Revision "B", dated October 1, 2007, or later FAA approved revision; or FAA Approved Garmin 500W Series Master Data List, Drawing No.: 005-C0221-01, Revision "B", dated October 1, 2007, or later FAA approved revision. Use applicable FAA approved 400W Series Airplane Flight Manual Supplement, document No. 190-00356-03, Rev. "Original", dated November 20, 2007 or later FAA approved revision; FAA Approved 500W Series Airplane Flight Manual Supplement document No. 190-00357-03, Rev. "Original", dated November 20, 2007 or later FAA approved revision; or FAA approved Airplane Flight Manual supplement as defined in Master Data List 005-C0221-00 or 005-C0221-01 defined above.

Limitations and Conditions. This approval should not be incorporated in any aircraft unless it is determined that the interrelationship between this installation and any previous approved configuration will not introduce any adverse effect upon the airworthiness of the 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: January 31, 2006

Date received: July 31, 2009

Date of issuance: November 6, 2006

Date amended: November 20, 2007



By direction of the Administrator

David G. Armstrong
(Signature)

David Armstrong
ODA/STC Unit Administrator
ODA-240087-CE
Garmin International, Inc.

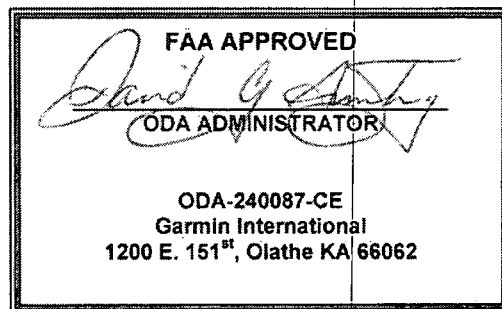
(Title)

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 (AML)

STC Number SA01933LA-D

Installation of Garmin 400W / 500W Series GPS-WAAS Navigation System



Issued Date: November 6, 2006

Revised Date: July 31, 2009

FAA Approved Model List (AML) STC SA01933LA-D

Aircraft Make (TCDS Holder) [common name or previous make]	Aircraft Model	Type Certificate Number	TC Certification Basis	Master Drawing List		AML Revision Date
				Document Number	Revision (or later FAA approved revision)	
Morane Saulnier (SOCATA - Groupe Aerospatiale)	Rallye Series – 100S, Rallye 150ST, Rallye 150T, Rallye 235E, Rallye 235C, MS880B, MS885, MS894A, MS893A, MS892A-150, MS892E-150, MS893E, MS894E	7A14	CAR 3	005-C0221-00 005-C0221-01	A	11/6/2006 Original
Morane Saulnier (SOCATA - Groupe Aerospatiale)	M.S.760, M.S.760A, M.S.760B	7A3	CAR 3	005-C0221-00 005-C0221-01	A	11/6/2006 Original
Moravan (Moravan a.s.)	ZLIN Z-242L, Z-143L	A76EU	FAR 23	005-C0221-00 005-C0221-01	A	11/6/2006 Original
Moravan (Moravan National Corporation)	ZLIN 526L	A30EU	FAR 23	005-C0221-00 005-C0221-01	A	11/6/2006 Original
Navion (Sierra Hotel Aero, Inc.) [Navion]	Navion (L-17A), Navion A (L-17B, L-17C), Navion B, Navion D, Navion E, Navion F, Navion G, Navion H	A-782	CAR 3	005-C0221-00 005-C0221-01	A	11/6/2006 Original
Piaggio (Piaggio Aero Industries S.p.A)	P-180	A59EU	FAR 23	005-C0221-00 005-C0221-01	A	11/6/2006 Original
PILATUS (Pilatus Aircraft Ltd.)	PC-6, PC-6-H1, PC-6-H2, PC-6/350, PC-6/350-H1, PC-6/350-H2, PC-6/A, PC-6/A-H1, PC-6/A-H2, PC-6/B-H2, PC-6/B1-H2, PC-6/B2-H2, PC-6/B2-H4, PC-6/C-H2, PC-6/C1-H2	7A15	CAR 3	005-C0221-00 005-C0221-01	A	11/6/2006 Original
Pilatus (Pilatus Aircraft Ltd.)	PC-7	A50EU	FAR 23	005-C0221-00 005-C0221-01	A	11/6/2006 Original
PILATUS (PILATUS AIRCRAFT LTD.)	PILATUS PC-12, PILATUS PC-12/45, PILATUS PC-12/47	A78EU	FAR 23	005-C0221-00 005-C0221-01	A	11/6/2006 Original
Piper Aircraft Inc. (Piper Aircraft Inc.)	PA-23, PA-23-160, PA-23-235, PA-23-250, PA-E23-250	1A10	CAR 3	005-C0221-00 005-C0221-01	A	11/6/2006 Original
Piper Aircraft Inc. (Piper Aircraft Inc.)	PA-24, PA-24-250, PA-24-260, PA-24-400	1A15	CAR 3	005-C0221-00 005-C0221-01	A	11/6/2006 Original
Piper Aircraft Inc. (Piper Aircraft Inc.)	PA-18, PA-18S, PA-18 "105", PA-18S "105", PA-18A, PA-18 "125", PA-18S "125", PA-18AS "125", PA-18 "135", PA-18A "135", PA-18S "135", PA-18AS "135", PA-18 "150", PA-18A "150", PA-18S "150", PA-18AS "150", PA-19, PA19S	1A2	CAR 3	005-C0221-00 005-C0221-01	A	11/6/2006 Original
Piper Aircraft Inc. (Piper Aircraft Inc.)	PA-20, PA-20S, PA-20 "115", PA-20S "115", PA-20 "135", PA-20S "135"	1A4	CAR 3	005-C0221-00 005-C0221-01	A	11/6/2006 Original



August 19, 2009

Subject: STC Permission to use STC SA01933LA-D for
Garmin Model 400W / 500W Series GPS-WAAS Navigation System
(See AML)

Consistent with Order 8110.4B and AC 21-40, Garmin International grants permission to Garmin dealers, installers, and owners of the Garmin Model 400W / 500W Series GPS-WAAS Navigation System units to use STC SA01933LA-D and the data associated with it, for the sole and express purpose of installation and approval of the installation of the Garmin Model 400W / 500W Series GPS-WAAS Navigation System, and associated interfaces to other previously approved equipment.

GARMIN AT, INC.

A handwritten signature in black ink, appearing to read "Emmett Griffith".

Emmett Griffith
Engineering Manager



October 3, 2006

RE: STC Permission to use STC SA01695SE for Garmin Antennas

Consistent with Order 8110.4B and AC 21-40, Garmin AT, Inc. grants permission to Garmin dealers, installers, and owners of the Garmin antennas listed in the STC Installation Manual (190-00569-00) to use STC SA01695SE and the data associated with it, for the sole and express purpose of installation and approval of installation of the Garmin antennas listed in the STC Installation Manual (190-00569-00).

A handwritten signature in cursive script, appearing to read "John Macnab".

John Macnab, General Manager
Garmin AT, Inc.

United States of America
Department of Transportation—Federal Aviation Administration
Supplemental Type Certificate

Number SA01695SE

This certificate, issued to **Garmin AT, Inc.
2345 Turner Road SE
Salem, OR 97302**

*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 * of the * Regulations.*

Original Product—Type Certificate Number:

*See attached Approved Model List (AML)

Make:

No. SA01695SE for list of approved aircraft

Model:

models and applicable airworthiness regulations.

Description of the Type Design Change: Installation of antenna models identified in the Master Data List in accordance with Garmin Supplemental Type Certificate Master Data List, P/N 005-C0373-00, Revision D, dated August 21, 2006, or later Federal Aviation Administration approved revision.

Limitations and Conditions: Compatibility of this design change with previously approved modifications must be determined by the installer. A copy of this certificate must be maintained as part of the permanent records for the modified aircraft. This STC is for physical installation only. For operational Airworthiness approval refer to data for the interfaced receiving equipment.

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: March 3, 2006

Date reissued:

Date of issuance: August 31, 2006

Date amended: February 15, 2007



By direction of the Administrator

[Signature]
(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.

FAA Approved Model List (AML) No. SA01695SE

FOR INSTALLATION OF GARMIN GA ANTENNA SERIES

<u>Aircraft Make and Model Designation</u>	<u>Type Certificate Number</u>	<u>Certification Basis</u>	<u>Required Approved Data & Added Model Specific Limitations*</u>	<u>AML Revision Date</u>
Aermacchi S.p.A (Siai Marchetti)				
S.205-18/F, S.205-18/R, S.205-20/F, S.205-20/R S.205-22/R, S.208, S.208A	A9EU	FAR 23		
F.260, F.260B, F.260C, F.260D, F.260E, F.260F	A10EU	CAR 3		
S.211A	A86EU	FAR 23		
Aero Commander (Dynac Aerospace Corp)				
10, 10A, 100, 100A, 100-180	1A21	CAR 3		
Aeronautica Macchi S.p.A (Macchi)				
AL 60, AL 60-B, AL 60-F5, AL 60-C5	7A12	CAR 3		
AM-3	A19EU	FAR 23		
Aerostar Aircraft Corp. (Piper Aerostar)				
PA-60-600, PA-60-601 (Aerostar 601), PA-60-601P Aerostar 601P), PA-60-602P (Aerostar 602P), PA-60- 700P (Aerostar 700P)	A17WE	FAR 23		
360, 400	A11WE	FAR 23		
American Champion				
402	A3CE	CAR 3		
7GCA, 7GCB, 7KC, 7GCBA, 7GCAA, 7GCBC, 7KCAB	A-759	CAR 4a		
8KCAB, 8GCBC	A21CE	FAR 23		
Aviat (Sky International)				
A-1, A-1A, A-1B	A22NM	FAR 23		
S-1S, S-1T, S-2, S-2A, S-2B, S-2C, S-2S	A8SO	FAR 23		
Bellanca (Alexandria Aircraft LLC)				
14-13, 14-13-2, 14-13-3, 14-13-3W	A-773	CAR 4a		

FAA Approved Model List (AML) No. SA01695SE

FOR INSTALLATION OF GARMIN GA ANTENNA SERIES

<u>Aircraft Make and Model Designation</u>	<u>Type Certificate Number</u>	<u>Certification Basis</u>	<u>Required Approved Data & Added Model Specific Limitations*</u>	<u>AML Revision Date</u>
PC-12, PC-12/45	A78EU	FAR 23		
PC-6, PC-6-H1, PC-6-H2, PC-6/350, PC-6/350-H1, PC-6/350-H2, PC-6/A, PC-6/A-H1, PC-6/A-H2, PC- 6/B-H2, PC-6/B1-H2, PC-6/B2-H2, PC-6/B2-H4, PC- 6/C-H2, PC-6/C1-H2	7A15	CAR 3		
PC-7	A50EU	FAR 23		
Piper (New Piper)				
PA-12, PA-12S	A-780	CAR 3		
PA-18, PA-18S, PA-18-105, PA-18S-105, PA-18A, PA-18-125, PA-18S-125, PA-18AS-125, PA-18-135, PA-18A-135, PA-18S-135, PA-18AS-135, PA-18- 150, PA-18A-150, PA-18S-150, PA-18AS-150, PA- 19, PA19S	1A2	CAR 3		
PA-20, PA-20S, PA-20-115, PA-20S-115, PA-20-135, PA-20S-135	1A4	CAR 3		
PA-22, PA-22-108, PA-22-135, PA-22S-135, PA-22- 150, PA-22S-150, PA-22-160, PA-22S-160	1A6	CAR 3		
PA-23, PA-23-160, PA-23-235, PA-23-250, PA-E23-250	1A10	CAR 3		
PA-24, PA-24-250, PA-24-260, PA-24-400	1A15	CAR 3		
PA-28-140, PA-28-150, PA-28-151, PA-28-160, PA- 28-161, PA-28-180, PA-28-235, PA-28S-160, PA- 28R-180, PA-28S-180, PA-28-181, PA-28R-200, PA- 28R-201, PA-28R-201T, PA-28RT-201, PA-28RT- 201T, PA-28-201T, PA-28-236	2A13	CAR 3		
PA-30, PA-39, PA-40	A1EA	CAR 3		
PA-31, PA-31-300, PA-31-325, PA-31-350	A20SO	CAR 3		
PA-31P, PA-31T, PA-31T1, PA-31T2, PA-31T3, PA-31P-350	A8EA	CAR 3		



U.S. Department
of Transportation
Federal Aviation
Administration

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

Form Approved
OMB No. 2120-0020
11/30/2007

Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See Title 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 N13839	Serial No. 27-4480	
	Make Piper	Model PA-23-250	Series Aztec
2. Owner	Name (As shown on registration certificate) Deaton John G	Address (As shown on registration certificate)	
		Address P.O. Box 7007	
		City Petaluma	State CA
		Zip 94955-7007	Country USA

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME		(As described in item 1 above)	
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type Manufacturer		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency	
Name	Michael TillmanC/OMangon Aircraft Inc.	<input checked="" type="checkbox"/> U.S. Certificated Mechanic	Manufacturer
Address	501 Sky Ranch Dr.	Foreign Certificated Mechanic	C. Certificate No.
City	Petaluma State CA	Certificated Repair Station	AP2845176IA
Zip	94954 Country USA	Certificated Maintenance Organization	

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 <input type="checkbox"/>	Signature/Date of Authorized Individual Michael Tillman 7/21/2009
---	--

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 <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA Fit. Standards Inspector	Manufacturer	Maintenance Organization	Person Approved by Canadian Department of Transport	
	FAA Designee	Repair Station	<input checked="" type="checkbox"/> Inspection Authorization	Other (Specify)	
Certificate or Designation No. AP2845176IA		Signature/Date of Authorized Individual Michael Tillman 7/21/2009			

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.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N13839

Nationality and Registration Mark

7/21/2009

Date

Installation of Fuel Cell Drain Kit

1. Remove bladders (4 each) from aircraft.
2. Removed inboard aft attach point bracket and drilled 3/4" hole in center of 4 rivet pattern.
3. Installed new modified bladders (4 each) in original locations per Eagle Technologies Company installation instruction manual Pn. 720P, Rev. M, dated 1/25/2001 steps 1 thru 15 and FAA STC number SA01237AT.
4. Instructions for Continued Airworthiness added to aircraft records.
5. No change to Weight and Balance.

***** NOTHING FOLLOWS *****

☐ Additional Sheets Are Attached



U.S. Department
of Transportation
Federal Aviation
Administration

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

Form Approved
OMB No. 2120-0020
11/30/2007

Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See Title 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 N13839	Serial No. 27-4480	
	Make Piper	Model PA23-250	Series Aztec
2. Owner	Name (As shown on registration certificate) John G Deaton	Address (As shown on registration certificate)	
		Address P.O. Box 7007	
		City Petaluma	State CA
		Zip 94955	Country USA

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME		(As described in item 1 above)	
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type Manufacturer		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency		C. Certificate No. 2845176
Name	Michael Tillman C/O Mangon Aircraft Inc.	<input checked="" type="checkbox"/>	U.S. Certificated Mechanic	
Address	501 Sky Ranch Dr.		Foreign Certificated Mechanic	
City	Petaluma State CA		Certificated Repair Station	
Zip	94954 Country USA		Certificated Maintenance Organization	

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

Michael Tillman 5/26/2009

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	Person Approved by Canadian Department of Transport
	FAA Designee	Repair Station	<input checked="" type="checkbox"/> Inspection Authorization	Other (Specify)
Certificate or Designation No. 2845176		Signature/Date of Authorized Individual Michael Tillman 5/26/2009		

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.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N13839

Nationality and Registration Mark

5/26/2009

Date

INSTALLATION OF ALTERNATOR CONTROL UNITS

1. Removed voltage regulators, filters, and over-voltage relays for main and auxiliary systems.
2. Installed new Zeftronics Alternator Control Units per FAA/STC number SA8431SW and Zeftronics installation instructions steps 1 thru 6 for Dwg. No. ZOOPEC. Rev. A1, dated 01/2004.
3. Installed new OEM noise filters in original locations.
4. No change to weight and balance.

***** NOTHING FOLLOWS *****

☐ Additional Sheets Are Attached



U.S. Department
of Transportation
Federal Aviation
Administration

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

Form Approved
OMB No. 2120-0020
11/30/2007

Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See Title 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 N13839	Serial No. 27-4480	
	Make Piper	Model PA-23-250	Series Aztec
2. Owner	Name (As shown on registration certificate) Deaton John G	Address (As shown on registration certificate)	
		Address P.O. Box 7007 City Petaluma State CA Zip 94955-7007 Country USA	

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME		(As described in item 1 above)	
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type Manufacturer		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency	
Name	Michael TillmanC/OMangon Aircraft Inc.	<input checked="" type="checkbox"/> U.S. Certificated Mechanic	Manufacturer
Address	501 Sky Ranch Dr.	<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.
City	Petaluma State CA	<input type="checkbox"/> Certificated Repair Station	AP2845176IA
Zip	94954 Country USA	<input type="checkbox"/> Certificated Maintenance Organization	

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	<input type="checkbox"/>	Signature/Date of Authorized Individual	Michael Tillman
--	--------------------------	---	-----------------

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 <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA Flt. Standards Inspector	Manufacturer	Maintenance Organization	Person Approved by Canadian Department of Transport	
	FAA Designee	Repair Station	<input checked="" type="checkbox"/> Inspection Authorization	Other (Specify)	
Certificate or Designation No. AP2845176IA		Signature/Date of Authorized Individual Michael Tillman 4/2009			

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.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N13839

Nationality and Registration Mark

4/8/2009

Date

INSTALLATION OF OILAMATIC PREOILER SYSTEM

1. Installed oilamatic Preoiler System on engine left Pn. 2100A, Sn. 0503017 and engine right Pn. 2100A, Sn. 0503018 per STC Number SA00448DE and Oilamatic Preoiler Installation Instructions with drawing list # PA23400 issued 2/14/2001, pages 1 through 6.
2. Placard installed at control switch for system limitations.
3. Installed aircraft supplement into POH.
4. Aircraft weight and balance revised and added to aircraft records.

***** NOTHING FOLLOWS *****

☐ Additional Sheets Are Attached



U.S. Department
of Transportation
Federal Aviation
Administration

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

Form Approved
OMB No. 2120-0020
11/30/2007

Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See Title 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 N13839	Serial No. 27-4480	
	Make Piper	Model PA-23-250	Series Aztec
2. Owner	Name (As shown on registration certificate) Deaton John G	Address (As shown on registration certificate)	
		Address P.O. Box 7007 City Petaluma State CA Zip 94955-7007 Country USA	

3. For FAA Use Only

--	--	--	--	--	--

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input type="checkbox"/>	AIRFRAME	_____	(As described in item 1 above)	_____
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type _____ Manufacturer _____	_____	_____

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency	
Name	Michael TillmanC/OMangon Aircraft Inc.	<input checked="" type="checkbox"/> U.S. Certificated Mechanic	Manufacturer
Address	501 Sky Ranch Dr.	<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.
City	Petaluma State CA	<input type="checkbox"/> Certificated Repair Station	AP2845176IA
Zip	94954 Country USA	<input type="checkbox"/> Certificated Maintenance Organization	

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 <input type="checkbox"/>	Signature/Date of Authorized Individual Michael Tillman
---	--

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 <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA Fit. Standards Inspector	Manufacturer	Maintenance Organization	Person Approved by Canadian Department of Transport	
	FAA Designee	Repair Station	<input checked="" type="checkbox"/> Inspection Authorization	Other (Specify)	
Certificate or Designation No. AP2845176IA		Signature/Date of Authorized Individual Michael Tillman 4/2009			

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.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N13839

Nationality and Registration Mark

4/8/2009

Date

INSTALLATION OF TRIM TAB ON LEFT AILERON

1. Installed trim tab, actuator, wiring harness and indicator per STC Number SA1044SO and per Aero-Trim Installation Instructions items 1 through 23.
2. Aileron removed and a balance check performed.
3. Inserted POH supplement into flight manual.

***** NOTHING FOLLOWS *****

☐ Additional Sheets Are Attached



U.S. Department
of Transportation
Federal Aviation
Administration

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

Form Approved
OMB No. 2120-0020
11/30/2007

Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See Title 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 N13839	Serial No. 27-4480	
	Make Piper	Model PA-23-250	Series
2. Owner	Name (As shown on registration certificate) Deaton John G	Address (As shown on registration certificate) Address P.O. Box 7007 City Petaluma State CA Zip 94955-7007 Country USA	

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input type="checkbox"/>	AIRFRAME		(As described in item 1 above)	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	POWERPLANT	Lycoming	TIO-540-C1A	L-1532-61
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type Manufacturer		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency	
Name	Michael Tillman C/O Mangon Aircraft Inc.	<input checked="" type="checkbox"/> U.S. Certificated Mechanic	Manufacturer
Address	501 Sky Ranch Dr.	<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.
City	Petaluma State CA	<input type="checkbox"/> Certificated Repair Station	AP2845176IA
Zip	94954 Country USA	<input type="checkbox"/> Certificated Maintenance Organization	

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

Michael Tillman

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	Person Approved by Canadian Department of Transport
	FAA Designee	Repair Station	<input checked="" type="checkbox"/> Inspection Authorization	Other (Specify)
Certificate or Designation No. AP2845176IA		Signature/Date of Authorized Individual Michael Tillman 4/2009		

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.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N13839

Nationality and Registration Mark

4/8/2009

Date

INSTALLATION OF turboGAMjector NOZZLES

1. Removed 6 each Textron Lycoming fuel nozzles Pn. LW18854.
2. Installed General Aviation Modifications Inc. turboGAMjector nozzle kit # GLT20, Sn. 18566 per STC Number SE09445SC and per turboGAMjector Installation Procedure # IP-98-002, Rev. D, dated 8/11/1998.
3. No change to weight and balance.

***** NOTHING FOLLOWS *****

☐ Additional Sheets Are Attached



U.S. Department
of Transportation
Federal Aviation
Administration

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

Form Approved
OMB No. 2120-0020
11/30/2007

Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See Title 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 N13839	Serial No. 27-4480	
	Make Piper	Model PA-23-250	Series
2. Owner	Name (As shown on registration certificate) Deaton John G	Address (As shown on registration certificate)	
		Address P.O. Box 7007	
		City Petaluma	State CA
		Zip 94955-7007	Country USA

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input type="checkbox"/>	AIRFRAME		(As described in item 1 above)	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	POWERPLANT	Lycoming	TIO-540-C1A	L-1533-61
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency	
Name	Michael Tillman/C/O Mangon Aircraft Inc.	<input checked="" type="checkbox"/> U.S. Certificated Mechanic	Manufacturer
Address	501 Sky Ranch Dr.	<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.
City	Petaluma State CA	<input type="checkbox"/> Certificated Repair Station	AP2845176IA
Zip	94954 Country USA	<input type="checkbox"/> Certificated Maintenance Organization	

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

Michael Tillman

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	Person Approved by Canadian Department of Transport
	FAA Designee	Repair Station	<input checked="" type="checkbox"/> Inspection Authorization	Other (Specify)
Certificate or Designation No. AP2845176IA		Signature/Date of Authorized Individual Michael Tillman 4/2009		

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.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N13839

Nationality and Registration Mark

4/8/2009

Date

INSTALLATION OF turboGAMjector NOZZLES

1. Removed 6 each Textron Lycoming fuel nozzles Pn. LW18854.
2. Installed General Aviation Modifications Inc. turboGAMjector nozzle kit # GLT 20, Sn. 18565 per STC Number SE09445SC and per turboGAMjector Installation Procedure # IP-98-002, Rev. D, dated 8/11/1998.
3. No change to weight and balance.

***** NOTHING FOLLOWS *****

☐ Additional Sheets Are Attached



U.S. Department
of Transportation
Federal Aviation
Administration

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

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification

WPM/gd

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 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. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

1. Aircraft	Make Piper	Model PA23-250 - 6PCLM
	Serial No. 27-4480	Nationality and Registration Mark N13839
2. Owner	Name (As shown on registration certificate) John G Deaton	Address (As shown on registration certificate) P. O. Box 7007 Petaluma, CA 94955.

3. For FAA Use Only

--	--	--	--	--	--

4. Unit Identification				5. Type	
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	(As described in item 1 above)				
POWERPLANT	Lycoming	TIO-540-C1A	L-1532-61		X
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

6. Conformity Statement

A. Agency's Name and Address	B. Kind of Agency	C. Certificate No.
Walter Mangon Petaluma Municipal Airport 501 Sky Ranch Drive Petaluma, CA 94954-3908	<input checked="" type="checkbox"/> U.S. Certificated Mechanic	1570369
	<input type="checkbox"/> Foreign Certificated Mechanic	
	<input type="checkbox"/> Certificated Repair Station	
	<input type="checkbox"/> Manufacturer	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 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.

Date 10/05/06	Signature of Authorized Individual <i>Walter Mangon</i> Walter Mangon
------------------	---

7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA Fit. Standards Inspector	Manufacturer	<input checked="" type="checkbox"/>	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station		Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 10/05/06		Certificate or Designation No. 1570369		Signature of Authorized Individual <i>Walter Mangon</i> Walter Mangon	

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.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N13839

10/05/06

Installation of Aviation Development Engine External Oil Filter .

1. Piper PA23-250 -6PCLM Aztec Sn: 27-4440
2. Engine TIO-540-C1A, Sn. L-1532-61. (AML listed)
3. Installed STC SE5743NM Adapter for externally mounted oil filter. (
4. Installation in accordance with Aviation Development Corporation Drawing List DL003, Dater May 8, 1992.

***** NOTHING FOLLOWS *****

☐ Additional Sheets Are Attached

United States of America
Department of Transportation—Federal Aviation Administration
Supplemental Type Certificate

Number SE5743NM

This certificate, issued to Aviation Development Corporation

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: See attached FAA Approved Model List (AML)
Make: No. SE5743NM for list of approved airplane models
Model: and applicable airworthiness regulations.

Description of the Type Design Change: Installation of adapter for externally mounted oil filter in accordance with Aviation Development Corporation Drawing List, DL 003, dated May 8, 1992, or later FAA approved revisions.

Aircraft Model

Registration No.

Serial No.

PA 23
N13839
23-4480

Limitations and Conditions: Approval of this change in type design applies to the models of engines only. This approval should not be extended to other engines of these models on which other previously approved modifications are incorporated unless it is determined 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 engine. A copy of this Certificate dated July 18, 1992, must be maintained as part of the permanent records for the modified aircraft.

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: April 29, 1992

Date of issuance: July 20, 1992

Date reissued:

Date amended:

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.

APPROVED MODEL LIST (AML) NUMBER SES743NM
FOR
ENGINE ADAPTER FOR EXTERNALLY MOUNTED ENGINE OIL FILTER

ITEM	ENGINE MAKE	ENGINE MODEL	TYPE CERTIFICATE NUMBER	CERTIFICATION BASIS FOR ALTERATION	FAA SEALED DRAWING LIST		AFM SUPPLEMENT NO. AND DATE	AML REVISION DATE
					NUMBER	REV		
1	Continental	O-200/C-90	E-252	CAR 13	700116	I/R	N/A	I/R 7/20/92
2	Continental	O-300/C-145	E-253	CAR 13	700115	I/R	N/A	I/R 7/20/92
3	Continental	O-470	E-269/E273	CAR 13	700111	Rev 2	N/A	I/R 7/20/92
4	Continental	IO-360	E-1CE	CAR 13	700110, 700115	I/R	N/A	I/R 7/20/92
5	Continental	IO-520	E-5CE	CAR 13	700110 or 700111	I/R Rev 2	N/A	I/R 7/20/92
6	Continental	E-165, E-185	E-246	CAR 13	700113	I/R	N/A	I/R 7/20/92
7	Continental	E-225	E-267	CAR 13	700113	I/R	N/A	I/R 7/20/92
8	Continental	TSIO-360	E9CE	FAR 33	700110, 700115	I/R I/R	N/A	I/R 7/20/92
9	Lycoming	O-235	E-223	CAR 13	700112	I/R	N/A	I/R 7/20/92
10	Lycoming	O-320	E-274	CAR 13	700110 or 700117	I/R Rev 20	N/A	6/22/93
11	Lycoming	O-360	E-286	CAR 13	700110 or 700117	I/R Rev 20	N/A	6/22/93
12	Lycoming	O-540	E-295	CAR 13	700110 or 700117	I/R Rev 20	N/A	6/22/93

FAA



U.S. Department
of Transportation
Federal Aviation
Administration

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

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification

WPR 2/2/06

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 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. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

1. Aircraft	Make Piper	Model PA23-250 - 6PCLM
	Serial No. 27-4480	Nationality and Registration Mark N13839
2. Owner	Name (As shown on registration certificate) John G Deaton	Address (As shown on registration certificate) P. O. Box 7007 Petaluma, CA 94955.

3. For FAA Use Only

4. Unit Identification				5. Type	
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	(As described in item 1 above)				
POWERPLANT	Lycoming	TIO-540-C1A	L-1533-61		X
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

6. Conformity Statement

A. Agency's Name and Address	B. Kind of Agency	C. Certificate No.
Walter Mangon Petaluma Municipal Airport 501 Sky Ranch Drive Petaluma, CA 94954-3908	<input checked="" type="checkbox"/> U.S. Certificated Mechanic	1570369
	<input type="checkbox"/> Foreign Certificated Mechanic	
	<input type="checkbox"/> Certificated Repair Station	
	<input type="checkbox"/> Manufacturer	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 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.

Date 10/05/06	Signature of Authorized Individual <i>Walter Mangon</i> Walter Mangon
------------------	---

7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA Fit. Standards Inspector	Manufacturer	X	Inspector Authorization	Other (Specify)
	FAA Designee	Repair Station		Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 10/05/06		Certificate or Designation No. 1570369		Signature of Authorized Individual <i>Walter Mangon</i> Walter Mangon	

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.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N13839

10/05/06

Installation of Avation Development Engine External Oil Filter .

1. Piper PA23-250 -6PCLM Aztec Sn: 27-4440
2. Engine TIO-540-C1A, Sn. L-1533-61. (AML listed)
3. Installed STC SE5743NM Adapter for externally mounted oil filter.
4. Installation in accordance with Aviation Development Corporation Drawing List DL003, Dater May 8, 1992.

***** NOTHING FOLLOWS *****

☐ Additional Sheets Are Attached

United States of America
Department of Transportation—Federal Aviation Administration
Supplemental Type Certificate

Number SE5743NM

This certificate, issued to Aviation Development Corporation

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 19 of the Civil Air Regulations.

Original Product—Type Certificate Number: See attached FAA Approved Model List (AML)
Makes: No. SE5743NM for list of approved airplane models
Model: and applicable airworthiness regulations.

Description of the Type Design Change: Installation of adapter for externally mounted oil filter in accordance with Aviation Development Corporation Drawing List, DL 003, dated May 8, 1992, or later FAA approved revisions.

Aircraft Model

Registration No.

Serial No.

PA 23
N 13839
23-4480

Limitations and Conditions: Approval of this change in type design applies to the models of engines only. This approval should not be extended to other engines of these models on which other previously approved modifications are incorporated unless it is determined 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 engine. A copy of this Certificate dated July 18, 1992, must be maintained as part of the permanent records for the modified aircraft.

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: April 29, 1992

Date reissued:

Date of issuance: July 20, 1992

Date amended:



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.

**APPROVED MODEL LIST (AML) NUMBER SE5743NM
FOR
ENGINE ADAPTER FOR EXTERNALLY MOUNTED ENGINE OIL FILTER**

ITEM	ENGINE MAKE	ENGINE MODEL	TYPE CERTIFICATE NUMBER	CERTIFICATION BASIS FOR ALTERATION	FAA SEALED DRAWING LIST		AFM SUPPLEMENT NO. AND DATE	AML REVISION DATE
					NUMBER	REV		
1	Continental	O-200/C-90	E-252	CAR 13	700116	I/R	N/A	I/R 7/20/92
2	Continental	O-300/C-145	E-253	CAR 13	700115	I/R	N/A	I/R 7/20/92
3	Continental	O-470	E-269/E273	CAR 13	700111	Rev 2	N/A	I/R 7/20/92
4	Continental	IO-360	E-1CE	CAR 13	700110, 700115	I/R I/R	N/A	I/R 7/20/92
5	Continental	IO-520	E-5CE	CAR 13	700110 or 700111	I/R Rev 2	N/A	I/R 7/20/92
6	Continental	E-165, E-185	E-246	CAR 13	700113	I/R	N/A	I/R 7/20/92
7	Continental	E-225	E-267	CAR 13	700113	I/R	N/A	I/R 7/20/92
8	Continental	TSIO-360	E9CE	FAR 33	700110, 700115	I/R I/R	N/A	I/R 7/20/92
9	Lycoming	O-235	E-223	CAR 13	700112	I/R	N/A	I/R 7/20/92
10	Lycoming	O-320	E-274	CAR 13	700110 or 700117	I/R Rev 20	N/A	6/22/93
11	Lycoming	O-360	E-286	CAR 13	700110 or 700117	I/R Rev 20	N/A	6/22/93
12	Lycoming	O-540	E-295	CAR 13	700110 or 700117	I/R Rev 20	N/A	6/22/93

FAA



U.S. Department
of Transportation
Federal Aviation
Administration

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

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification

WP27 82

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 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. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

1. Aircraft	Make Piper	Model PA23-250 - 6PCLM
	Serial No. 27-4480	Nationality and Registration Mark N13839
2. Owner	Name (As shown on registration certificate) John G Deaton	Address (As shown on registration certificate) P. O. Box 7007 Petaluma, CA 94955.

3. For FAA Use Only

The data identified herein complies with all the applicable airworthiness requirements and is approved for the above described aircraft, subject to conformity inspection by a person authorized in FAR 43, section 43.7.

Date *10/24/06*

Signature *[Signature]*

OAK-FSDO, WP27

4. Unit Identification

5. Type

Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	(As described in item 1 above)				X
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

6. Conformity Statement

A. Agency's Name and Address Walter Mangon Petaluma Municipal Airport 501 Sky Ranch Drive Petaluma, CA 94954-3908	B. Kind of Agency <input checked="" type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer	C. Certificate No. 1570369
--	---	--

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 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.

Date 10/24/06	Signature of Authorized Individual <i>[Signature]</i> Walter Mangon
------------------	---

7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA Fit. Standards Inspector	Manufacturer	X	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station		Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 10/24/06		Certificate or Designation No. 1570369		Signature of Authorized Individual <i>[Signature]</i> Walter Mangon	

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.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N13839

10/24/06

Conversion of Two Blade Ring Gear to Three Blade Operation.

1. Piper PA23-250 -6PCLM Aztec Sn: 27-4440
2. Converted original propeller ring gear from two blade de-ice to capable operation for three blade de-ice operation. Wired propeller de-ice system for previously installed three blade propeller that were installed in accordance with STC SA 441NW as follows:
Original two blade propeller ring gear/slip ring assembly retained and wired per concept drawing from Gary Garcia, Manager Product Support, BF Goodrich Corporation, Dtd., Jun. 28, 01.
Change as follows. (Made part of aircraft records.)
Wiring connections for two and three blade propellers are basically the same, except three blade installation using two blade ring gear/slip ring assembly requires that two blade de-ice boot lead sets be connected to one set of studs on slip ring, reference BF Goodrich drawing for installation of three blade propeller on Piper PA46-350P using original two blade ring gear/slip assembly.
3. Control and operation: No change from original two blade operation..
4. Servicing: No change from original two blade operation
5. Maintenance Instructions: No change from original two blade operation
6. Troubleshooting: No change from original two blade operation. Hartzell Propeller Manual.
7. Removal and replacement information: No change from original two blade operation.
8. Diagrams: See attached BF Goodrich Letter and Drawings.
9. Special instructions: None
10. Application of protective coatings: None.
11. Data: Hartzell Propeller Service Manual and BF Goodrich Drawings made part of aircraft records.
12. List of special tools: Non applicable.
13. For commuter category aircraft: Not applicable Part 91 use.
14. Recommended overhaul periods: On condition
15. Airworthiness limitations: Aviation Development Corporation Report FM 020M, Supplement Flight Information for Aircraft Equipped with Aviation Development Corporation Oil Filter, included to and made part of aircraft POH.
16. Revisions: For revisions to this FAA 337 ICA submit a letter to local FSDO with copy of revised FAA 337 ICA. See also FAA order 8300.10 Attachment ICA checklist item 16.

***** NOTHING FOLLOWS *****

☐ Additional Sheets Are Attached



U.S. Department
of Transportation
Federal Aviation
Administration

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

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification

WP27 28

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 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. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

1. Aircraft	Make Piper	Model PA23-250 - 6PCLM
	Serial No. 27-4480	Nationality and Registration Mark N13839
2. Owner	Name (As shown on registration certificate) John G Deaton	Address (As shown on registration certificate) P. O. Box 7007 Petaluma, CA 94955.

3. For FAA Use Only

--	--	--	--	--	--

4. Unit Identification

5. Type

Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	(As described in item 1 above)				X
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

6. Conformity Statement

A. Agency's Name and Address	B. Kind of Agency	C. Certificate No.
Walter Mangon Petaluma Municipal Airport 501 Sky Ranch Drive Petaluma, CA 94954-3908	<input checked="" type="checkbox"/> U.S. Certificated Mechanic	1570369
	<input type="checkbox"/> Foreign Certificated Mechanic	
	<input type="checkbox"/> Certificated Repair Station	
	<input type="checkbox"/> Manufacturer	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 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.

Date 10/20/06	Signature of Authorized Individual <i>Walter Mangon</i>	Walter Mangon
------------------	--	---------------

7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA Fit. Standards Inspector	Manufacturer	<input checked="" type="checkbox"/>	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station		Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 10/20/06		Certificate or Designation No. 1570369		Signature of Authorized Individual <i>Walter Mangon</i> Walter Mangon	

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.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N13839

10/20/06

Installation of Two Hartzell (2), Three Bladed Propellers and Spinner:

1. Installation of STC SA441NW, Dtd. 03/14/77, Rev. 07/22/88. AAR Aircraft Services-Oklahoma, 6611 South Meridian, OklahomaCity, OK 73159-1104.
2. Installation of of two (2) Hartzell Three Blade Propeller with De Ice Boots, Pn. HC-E3YR-2ATF/FC7663-2R and Piper Navajo Spinner assembly Pn. 43940-00 in accordance with Westen Skyways Installation Instructions No. WS-601.
3. Continued Airworthines same as original Maintenance Manual for PA23-250 aircraft/

***** NOTHING FOLLOWS *****

☐ Additional Sheets Are Attached

United States Of America
Department of Transportation - Federal Aviation Administration

Supplemental Type Certificate

Number SA441NW

This Certificate issued to AAR Aircraft Services, Inc.
DBA: AAR Aircraft Services-Oklahoma
6611 South Meridian
Oklahoma City, OK 73159-1104

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 3 of the Civil Air Regulations, dated November 11, 1949.

Original Product Type Certificate Number: 1A10
Make: Piper
Model: PA 23-250

Description of Type Design Change:

Installation of two Hartzell HC-E3YR-2ATF/FC7663-2R three-bladed propellers, and Piper Navajo spinner assembly (P/N 43940-00) and associated systems in accordance with Western Skyways Installation Instructions No. WS-601.

Limitations and Conditions:

(See continuation sheet 3 of 4)

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 14, 1977

Date reissued: 7/22/88; 3/5/99

Date of issuance: April 26, 1977

Date amended: January 12, 1978



By direction of the Administrator

S. Frances Cox
(Signature)

S. Frances Cox, Manager
Special Certification Office,
Southwest Region

(Title)

United States Of America
Department of Transportation - Federal Aviation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number SA441NW

Date of Issuance: April 26, 1977

Reissuance Date: March 5, 1999

Limitations and Conditions (Continued):

Approval of this change in type design applies to the above model aircraft only. This approval should not be extended to aircraft of this model on which other previously approved modifications are incorporated unless it is determined that the interrelationship between this change and any of those other previously approved modifications will introduce no adverse effect upon the airworthiness of that aircraft. This approval is intended for installation in the above model with the Lycoming IO-540 series and TIO-540-C1A engines. A copy of this Certificate, Addendum No. SA441NW, FAA Approved Flight Manual Supplement, and Installation Instructions No. WS-601 shall be maintained as part of the permanent records for the modified aircraft.

SUPPLEMENTAL TYPE CERTIFICATE ADDENDUM NUMBER SA441SW

The conditions and limitations of Type Certificate Data Sheet No. 1A10 apply except as follows:

This STC Addendum, which is part of Supplemental Type Certificate No. SA441SW, prescribes 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 modified aircraft's permanent records.

SUPPELEMENTAL TYPE CERTIFICATE HOLDER: AAR Aircraft Services, Inc.
DBA: AAR Aircraft Services-Oklahoma

I. PIPER MODEL PA-23-250 5 PCLM (NORMAL CATEGORY) OR 6 PCLM (NORMAL CATEGORY)
WHEN ITEM 603(b) IS INSTALLED

Serial Nos. Eligible: 27-2505 through 27-7654001

Required Equipment: (Serial No. 27-2505 through 27-3836, 27-3838
through 27-3943 at 4800 lbs. maximum weight)
Add 1 (o).

(Serial No. 27-2505 through sy-3836, 27-3838
through 27-3943 at 5200 lbs. maximum weight)
Add 1 (o).

(Serial No. 27-3837, 27-3944 through 27-4425,
27-4427 through 27-4573) Add 1(o).

(Serial No. 27-4426, 27-4574 through 27-7654001)
Add 1(o).

United States Of America
Department of Transportation - Federal Aviation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number SA441NW

Date of Issuance: April 26, 1977
Reissuance Date: March 5, 1999

Limitations and Conditions (Continued):

Production Basis: None. Parts manufactured under this STC may have been produced without an FAA approved quality control procedure. Prior to installation, such parts must be inspected for conformity and airworthiness in accordance with FARs 21 and 43. Prior to returning modified aircraft to service, conformity with approved installation data must be determined.

Propeller and Propeller Accessories:

1. (o) Hartzell HC-E3YR-2ATF with FC7663-2R blades. 81.0 lbs. ea. (+24)
Pitch settings at 30" Sta:
Low: 13.0; High: 80.0° (feathered)
Diameter: Not over 76.0"; Not under 75.0"

NOTE: Eligible only on PA-23-250, Serial Numbers 27-2505 through 27-7654001 when installed in accordance with STC SA441NW. NOT TO BE INTERMIXED WITH OTHER PROPELLERS.

2. (a) Piper spinner consisting of: Cap assembly, Part No. 43929-00; Bulkhead assembly, Part No. 43933-00; and Spinner assembly, Part No. 43940-00.

Interior Equipment:

401 (CR) WE602 dated April 26, 1977, is the FAA Approved Flight Manual Supplement and is required on Piper PA-23-250, Serial Number 27-2505 through 27-7654001 when Item 1 (c) and 2 (a) are installed in accordance with STC SA441NW.

-END-

Western Skyways Instructions for the installation of Hartzell 3-blade propellers on a Piper Aztec. Model PA 23-250. (land planes) Serial numbers 27-2505 thru and including 27-7405471.

Instructions #WS601

- A. Removal of the propellers.
 - 1. Remove the cowling.
 - 2. Remove the original propellers and spinners
 - (a) Disconnect all de-ice boot wires if applicable.
 - 3. Remove the original starter ring gear.
 - 4. Remove the original brush block assembly if applicable.
- B. Preparing the propellers for installation.
 - 1. Remove the propellers from the shipping crates and inspect for shipping damage and conformity to the S.T.C.
 - 2. Install the spinner rear bulk head.
 - 3. If applicable install the de-ice boots in accordance with Piper Drawing 32001 or B.F. Goodrich STC No. SA 195EA.
 - (a) Ascertain that the boots match the aircraft electrical system.
 - 4. Service the accumulator in accordance with the manufacturer's specs.
- C. Installation of the propellers.
 - 1. Install new brush block assembly if required.
 - 2. Install the starter ring gear.
 - 3. Installed the propellers.
 - (a) Torque to 60-70 ft. lbs. and safety.
 - 4. Installed de-ice boot connections if applicable.
 - 5. Install the spinner.
 - 6. Install the cowling.
 - 7. Make the required log book entries.
 - 8. Correct the weight and balance forms.
 - 9. Insert the applicable forms in the AFM.



U.S. Department
of Transportation
Federal Aviation
Administration

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

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification

WP 27 909

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 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. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

1. Aircraft	Make Piper	Model PA23-250 - 6PCLM
	Serial No. 27-4480	Nationality and Registration Mark N13839
2. Owner	Name (As shown on registration certificate) John G Deaton	Address (As shown on registration certificate) P. O. Box 7007 Petaluma, CA 94955.

3. For FAA Use Only

--	--	--	--	--	--

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

6. Conformity Statement

A. Agency's Name and Address	B. Kind of Agency	C. Certificate No.
Walter Mangon Petaluma Municipal Airport 501 Sky Ranch Drive Petaluma, CA 94954-3908	<input checked="" type="checkbox"/> U.S. Certificated Mechanic	1570369
	<input type="checkbox"/> Foreign Certificated Mechanic	
	<input type="checkbox"/> Certificated Repair Station	
	<input type="checkbox"/> Manufacturer	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 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.

Date 10/20/06	Signature of Authorized Individual Walter Mangon
------------------	---

7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA Fit. Standards Inspector	Manufacturer	<input checked="" type="checkbox"/>	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station		Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 10/20/06		Certificate or Designation No. 1570369		Signature of Authorized Individual Walter Mangon	

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.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N13839

10/20/06

Installation of Masten Products On-Board Engine Analyzer:

1. Installation of STC SA1532GL, Dtd. 06/25/90, Rev. 11/14/06. Masten Products Incorporated, 713 W. Ellsworth Road Ste A, Ann Arbor, Michigan, 48108,
2. Installation of On-Board Engine Analyzer in accordance with Masten Products Inc., Installation Manual, Edition 1, Revision B, Dtd. 9/12/90
3. Continued Airworthiness instructions check for security of installation. Clean instrument face using mild detergent and soft cotton cloth.

***** NOTHING FOLLOWS *****

☐ Additional Sheets Are Attached

United States of America
Department of Transportation — Federal Aviation Administration
Supplemental Type Certificate

Number SA1532GL

This certificate, issued to Masten Products Incorporated
713 W. Ellsworth Road, Suite A
Ann Arbor, Michigan 48108

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 3 of the Civil Air Regulations. See Aircraft Specification No. 1A10 for complete certification basis.

Original Product — Type Certificate Number: 1A10

Make: Piper

Model: PA-23, -23-160, -23-235, -23-250, -E23-250

Description of Type Design Change:

Installation of On-Board Engine Analyzer System in accordance with Masten Products Incorporated Installation Manual, Edition 1, Revision B, dated 9/12/90, or later FAA Approved revision.

Limitations and Conditions:

1. This instrument is approved as optional equipment only and shall not replace any other required instrument. 2. FAA Approved Airplane Flight Manual Supplement dated November 14, 1990, or later FAA approved revisions required. 3. Fuel flow transducers and Exhaust Gas Temperature and Cylinder Head Temperature thermocouple installations must be previously FAA approved for this installation. (See STC 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: June 25, 1990

Date issued:

Date of issuance: November 14, 1990

Date amended:



By direction of the Administrator

Donald P. Michal

(Signature)
Donald P. Michal, Manager
Chicago 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 SA1532GL

Limitations and Conditions: (Continued)

Date of Issuance: November 14, 1990

4. 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 interrelationship between this change and any of the other previously approved modifications will introduce no adverse effect upon the airworthiness of that aircraft.

. . . . END

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

FAA FORM 8110-2-1 (10-69)

This certificate may be transferred in accordance with FAR 21.47.



U.S. Department
of Transportation
Federal Aviation
Administration

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

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification

WP 27 98

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 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. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

1. Aircraft	Make Piper	Model PA23-250 - 6PCLM
	Serial No. 27-4480	Nationality and Registration Mark N13839
2. Owner	Name (As shown on registration certificate) John G Deaton	Address (As shown on registration certificate) P. O. Box 7007 Petaluma, CA 94955.

3. For FAA Use Only

--	--	--	--	--	--

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

6. Conformity Statement

A. Agency's Name and Address	B. Kind of Agency	C. Certificate No.
Walter Mangon Petaluma Municipal Airport 501 Sky Ranch Drive Petaluma, CA 94954-3908	<input checked="" type="checkbox"/> U.S. Certificated Mechanic	1570369
	<input type="checkbox"/> Foreign Certificated Mechanic	
	<input type="checkbox"/> Certificated Repair Station	
	<input type="checkbox"/> Manufacturer	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 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.

Date 10/20/06	Signature of Authorized Individual Walter Mangon
------------------	---

7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA Fit. Standards Inspector	Manufacturer	<input checked="" type="checkbox"/>	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station		Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 10/20/06		Certificate or Designation No. 1570369		Signature of Authorized Individual Walter Mangon	

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.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N13839

10/20/06

Installation of Bob Fields Inflatable Door Seals:

1. Installation of STC SA4237WE, Dtd. 08/14/80, Rev. 09/25/80. Bob Fields Aerocessories, 340 E. Santa Maria Street, Santa Paula, CA. 93060-3819, 805-525-6236
2. Installation of Bob field Inflatable Door Seals in accorcance with Bob Fields Installation Instructions, Report BFA 310, Dtd. 8/16/90. P. 7 of 7.
3. Continued Airworthines instructions check for security of installation. Clean seal using mild detergent and soft cotton cloth. Repair damage clean with MEK and repair with RTV sealant.

***** NOTHING FOLLOWS *****

☐ Additional Sheets Are Attached

United States of America
Department of Transportation — Federal Aviation Administration
Supplemental Type Certificate

Number 3442370E

This certificate issued to Bob Fields Aerocessories

certifies that the change in the type design for the following product with the limitations and conditions
therein as specified herein meets the airworthiness requirements of Part 3 of the Civil Air
*Regulations. *See Aircraft Specification 1A10 for complete certification basis.*

Original Product — Type Certificate Number: 1A10

Make: Piper

Model: PA-23, PA-23-160, -235, -250, PA-E23-250

Description of Type Design Change: Installation of inflatable door seal in accordance
with FAA sealed Aerocessories Drawing No. 3950 dated July 2, 1980, or later FAA
approved revision.

Limitations and Conditions: The approval of this change in type design applies to
the basic aircraft of the specified model only that is otherwise unmodified.
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 interrelationship between this change and any of those
other previously approved modifications will introduce no adverse effect upon
the airworthiness of that aircraft.

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

Date of application: August 14, 1980

Date received:

Date of issuance: September 25, 1980

Date recorded:



By signing of the Administrator

Chief, Aircraft Modification Branch

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.
Page 1 of 2 Pages *This certificate may be transferred in accordance with F.A.R. 24.17*



U.S. Department
of Transportation
Federal Aviation
Administration

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

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification

WP27 SE

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 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. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

1. Aircraft	Make Piper	Model PA23-250 - 6PCLM
	Serial No. 27-4480	Nationality and Registration Mark N13839
2. Owner	Name (As shown on registration certificate) John G Deaton	Address (As shown on registration certificate) P. O. Box 7007 Petaluma, CA 94955.

3. For FAA Use Only

The data identified herein complies with all the applicable airworthiness requirements and is approved for the above described aircraft, subject to conformity inspection by a person authorized in FAR 43, section 43.7.

Date 10/05/06

Signature

OAK-FSDO, WP27

4. Unit Identification

5. Type

Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	(As described in item 1 above)				X
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

6. Conformity Statement

A. Agency's Name and Address	B. Kind of Agency	C. Certificate No.
Walter Mangon Petaluma Municipal Airport 501 Sky Ranch Drive Petaluma, CA 94954-3908	<input checked="" type="checkbox"/> U.S. Certificated Mechanic	1570369
	Foreign Certificated Mechanic	
	Certificated Repair Station	
	Manufacturer	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 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.

Date
10/05/06

Signature of Authorized Individual

Walter Mangon

7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED

BY	FAA Fit. Standards Inspector	Manufacturer	<input checked="" type="checkbox"/>	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station		Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 10/05/06		Certificate or Designation No. 1570369		Signature of Authorized Individual Walter Mangon	

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.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N13839

10/05/06

Installation of Aviation Development Engine Oil Filter and Chip Warning Light.

1. Piper PA23-250 -6PCLM Aztec Sn: 27-4440
2. Installed to Lt. & Rt. Engine compartment Aviation Development Oil Filter, with Chip Detector. Installation procedures completed with only changes to installation of alignment of hoses and mounting bracket to provide proper clearances and bend radius of hoses.
3. Control and operation: Not applicable.
4. Servicing: Aviation Development Corporation Report FM 020M.
5. Maintenance Instructions: Aviation Development Corporation Report FM 020M.
6. Troubleshooting: Contact Aviation Development Corporation, 1305 NW 200th Street, Seattle, WA 98177, (206 546 3011
7. Removal and replacement information: Not applicable.
8. Diagrams: None applicable.
9. Special instructions: Not applicable:
10. Application of protective coatings: Not Applicable.
11. Data: None available
12. List of special tools: Non applicable.
13. For commuter category aircraft: Not applicable Part 91 use.
14. Recommended overhaul periods: Not applicable.
15. Airworthiness limitations: Aviation Development Corporation Report FM 020M, Supplement Flight Information for Aircraft Equipped with Aviation Development Corporation Oil Filter, included to and made part of aircraft POH.
16. Revisions: For revisions to this FAA 337 ICA submit a letter to local FSDO with copy of revised FAA 337 ICA. See also FAA order 8300.10 Attachment ICA checklist item 16.

***** NOTHING FOLLOWS *****

☐ Additional Sheets Are Attached



U.S. Department
of Transportation
Federal Aviation
Administration

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

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification

WP27-SE

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 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. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

1. Aircraft	Make Piper	Model PA23-250 - 6PCLM
	Serial No. 27-4480	Nationality and Registration Mark N13839
2. Owner	Name (As shown on registration certificate) John G Deaton	Address (As shown on registration certificate) P. O. Box 7007 Petaluma, CA 94955.

3. For FAA Use Only

The data identified herein complies with all the applicable airworthiness requirements and is approved for the above described aircraft, subject to conformity inspection by a person authorized in FAR 43, section 43.7.

Date 10/05/06

Signature

[Signature]

OAK-FSDO, WP27

4. Unit Identification

5. Type

Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	(As described in item 1 above)				X
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

6. Conformity Statement

A. Agency's Name and Address	B. Kind of Agency	C. Certificate No.
Walter Mangon Petaluma Municipal Airport 501 Sky Ranch Drive Petaluma, CA 94954-3908	<input checked="" type="checkbox"/> U.S. Certificated Mechanic	1570369
	<input type="checkbox"/> Foreign Certificated Mechanic	
	<input type="checkbox"/> Certificated Repair Station	
	<input type="checkbox"/> Manufacturer	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 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.

Date
10/05/06

Signature of Authorized Individual

[Signature]

Walter Mangon

7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED

BY	FAA Fit. Standards Inspector	Manufacturer	<input checked="" type="checkbox"/>	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station		Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 10/05/06		Certificate or Designation No. 1570369		Signature of Authorized Individual <i>[Signature]</i> Walter Mangon	

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.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N13839

10/05/06

Installation of Sun Visors (Rosen)

1. Piper PA23-250 (Six Place), 1970, Sn. 27-4480, 2213.0 Hrs.
2. Removal of existing Piper Pn. 31390-02 (Cardboard Vinyl Covered installed sun visors and replacement with Rosen Products Sun Visors Pn. RPAZ-400 .
Installed to original mounting tube using original mounting bracketts using Rosen Installation Instructions Drawing RPAZ-400.
3. Control and operation: Not applicable.
4. Servicing: Clean with mild detergent and a soft linen cloth.
5. Maintenance Instructions: No Rosen Instructions, Inspections as per Piper Maintenance Manual.
6. Troubleshooting: None.
7. Removal and replacement information: Not applicable.
8. Diagrams: Not applicable.
9. Special instructions: Not applicable:
10. Application of protective coatings: Not Applicable.
11. Data: None
12. List of special tools: Non applicable.
13. For commuter category aircraft: Not applicable Part 91 use.
14. Recommended overhaul periods: Not applicable.
15. Airworthiness limitations: Not applicable.
16. Revisions: For revisions to this FAA 337 ICA submit a letter to local FSDO with copy of revised FAA 337 ICA.
See also FAA order 8300.10 Attachment ICA checklist item 16.
17. For continued airworthiness a copy of Precision Aviation Inc, Bulletin 1C-102 Installation and
Compensatio made part of aircraft records.

***** NOTHING FOLLOWS *****

☐ Additional Sheets Are Attached

Preciler

FAA



U.S. Department
of Transportation
Federal Aviation
Administration

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

Form Approved
OMB No.2120-0020

For FAA Use Only

Office Identification

WP2742

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 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. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

1. Aircraft	Make Piper	Model PA23-250 - 6PCLM
	Serial No. 27-4480	Nationality and Registration Mark N13839
2. Owner	Name (As shown on registration certificate) John G Deaton	Address (As shown on registration certificate) P. O. Box 7007 Petaluma, CA 94955.

3. For FAA Use Only

--	--	--	--	--	--

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

6. Conformity Statement

A. Agency's Name and Address	B. Kind of Agency	C. Certificate No.
Walter Mangon Petaluma Municipal Airport 501 Sky Ranch Drive Petaluma, CA 94954-3908	<input checked="" type="checkbox"/> U.S. Certificated Mechanic	1570369
	<input type="checkbox"/> Foreign Certificated Mechanic	
	<input type="checkbox"/> Certificated Repair Station	
	<input type="checkbox"/> Manufacturer	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 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.

Date 10/05/06	Signature of Authorized Individual <i>Walter Mangon</i> Walter Mangon
------------------	---

7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA Fit. Standards Inspector	Manufacturer	<input checked="" type="checkbox"/>	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station		Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 10/05/06		Certificate or Designation No. 1570369		Signature of Authorized Individual <i>Walter Mangon</i> Walter Mangon	

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.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N13839

10/05/06

Installation of Preoiler System

1. Installed STC SA00448DE Oilamatic Inc. P. O. Box 5284, Englewood, CO 80115.
2. Installed in accordance with FAA Approved Oilamatic, Inc. Drawing List No. PA23400, Jun 01, 2000.
3. Continued Airworthiness see Oilamatic, Inc. Drawing List No. PA23400, Jun 01, 2000, made part of aircraft records.
4. FAA Approved Flight Manual Supplement made part of aircraft flight manual.

***** NOTHING FOLLOWS *****

☐ Additional Sheets Are Attached

United States of America
Department of Transportation—Federal Aviation Administration
Supplemental Type Certificate

Number SA00448DE

This certificate, issued to Ollamatic, Inc.
P.O. Box 5284
Englewood, CO 80155

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 3 of the Civil Air Regulations.

Original Product—Type Certificate Number: 1A10
Make: Piper Aircraft Corporation
Model: PA-23, PA-23-160, PA-23-235, PA-23-250, & PA-E23-250

Description of the Type Design Change:

Installation of Oilamatic Preoiler system in accordance with FAA approved Oilamatic, Inc. Drawing List No. PA23400 initial release, dated June 1, 2000, or later FAA approved revision.

Limitations and Conditions:

1. FAA approved Airplane Flight Manual Supplement Engine Proiler Piper PA-23, Rev. No. N/C, dated February 14, 2001, or later FAA approved revision is required.
2. This approval should not be extended to aircraft of this model on which other previously approved modifications are incorporated unless it is determined that the interrelationship 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.
3. A copy of this Certificate and Flight Manual Supplement must be maintained as part of the permanent records for the modified aircraft.

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: August 6, 2000
Date of issuance: February 14, 2001

Date reissued:

Date amended:



By direction of the Administrator

Roger A. Caldwell
Roger A. Caldwell (Signature) Acting Manager
Denver Aircraft Certification Office
Northwest Mountain Region, Denver, Colorado
(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.



U.S. Department
of Transportation
Federal Aviation
Administration

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

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification

WP22 82

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 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. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

1. Aircraft	Make Piper	Model PA23-250 - 6PCLM
	Serial No. 27-4480	Nationality and Registration Mark N13839
2. Owner	Name (As shown on registration certificate) John G Deaton	Address (As shown on registration certificate) P. O. Box 7007 Petaluma, CA 94955.

3. For FAA Use Only

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

6. Conformity Statement

A. Agency's Name and Address Walter Mangon Petaluma Municipal Airport 501 Sky Ranch Drive Petaluma, CA 94954-3908	B. Kind of Agency <input checked="" type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer	C. Certificate No. 1570369
--	---	--

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 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.

Date 10/05/06	Signature of Authorized Individual <i>Walter Mangon</i> Walter Mangon
------------------	---

7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA Fit. Standards Inspector	Manufacturer	X	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station		Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 10/05/06		Certificate or Designation No. 1570369		Signature of Authorized Individual <i>Walter Mangon</i> Walter Mangon	

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.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N13839

10/05/06

Installation of Whelen Strobe Light System.

1. Installed STC SA615EA Whelen Stroble Light Systems, Dated 06/17/2005
2. Installed Wing Strobe Light system , A413A, HDA, CF 14-28 in accordance with Whelen Anti-Collision Light Systems Installation and Service Manual, May 2005.
3. Installed Tail (Rudder) Self Contained Strobe, HR CFA 14-28, Sn, 02981, Wt. 1.5 Lbs. (Removed WRM14VDC, 1.51 Lbs) in accordance with Whelen Anti-Collision Light Systems Installation and Service Manual, May 2005.
4. Continued Airworthiness Whelen Flow Chart made part of aircraft records.

***** NOTHING FOLLOWS *****

☐ Additional Sheets Are Attached

APPENDIX A

United States Of America
Department of Transportation - Federal Aviation Administration

Supplemental Type Certificate

Number SA615EA

This Certificate issued to Whelen Engineering Company, Inc.
Route 145, Winthrop Road
Chester, Connecticut 06412-0684

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 3, 6, 23, 27 of the Civil Air/Federal Aviation Regulations.

Original Product Type Certificate Number : See Attached Eligibility List dated June 18, 1999

Makes :

Model :

Description of Type Design Change:

Installation of Whelen Anti-Collision Strobe Light Systems, Part Number 01-0770006(-), 01-0770028(-), 01-0770029(-), 01-0770062(-), and 01-0770900(-), as replacement for originally installed anti-collision lights, when installed in accordance with Whelen Anti-Collision Light Systems Installation and Service Manual, May 2005, Document No. 05131, Rev -, or later FAA-approved revision.

Limitations and Conditions:

(See continuation sheet 2 of 6)

The STC holder will provide each person it permits to use this certificate to alter the product written evidence of the agreement in a form acceptable to the Administrator.

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 : February 19, 1968

Date reissued :

Date of issuance : May 14, 1968

Date amended : June 17, 2005

See page 2 for amendment history.



By direction of the Administrator

Richard B. Noll
(Signature)

Richard B. Noll
Manager, Boston 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 Form 3110-2(10-68)

Page 1 of 6

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 SA615EA
Date Amended: June 17, 2005

Limitations and Conditions (Continued):

1. These lights comply with the anti-collision light standards of the FARs as follows:
 - a. With the red or combined red/white lens; those effective on or prior to August 10, 1971.
 - b. With the white lens; those effective on August 11, 1971.
2. Install the following placard Whelen Part No. A421, or other FAA approved equivalent:

WARNING

TO AVOID OPTICAL ILLUSION AND SEVERE VERTIGO, TURN
ANTI-COLLISION LIGHTS OFF UPON ENTERING CLOUDS, FOG OR HAZE

3. The aircraft listed on the Eligibility List are those which have had both the physical installation of the lights substantiated and the field of coverage checked including the 20° mask. Aircraft not included in the list can use these lights when the physical installation and field of coverage is substantiated as indicated in the Whelen Anti-Collision Light Systems Installation and Service Manual, May 2005, Document No. 05131, Rev -, or later FAA-approved revision, section titled "Aircraft Not Specifically Mentioned on the Eligibility List".
4. The approval of this change in type design applies basically to aircraft listed on the attached eligibility list. This approval should not be extended to other aircraft of these models on which other previously approved modifications are incorporated unless it is determined by the installer that the interrelationship between this change and any of those other previously approved modifications will introduce no adverse effect upon the airworthiness of the aircraft. This determination should include a night flight check as specified in AC 43.13-2, Chapter 4, Paragraph 42a.

NOTE: Aircraft whose application for type certificate was made before April 1, 1957, may, but need not, comply with the field of coverage requirements of FAR 23(27).1401(b). Compliance with FAR 91.33(c) may be shown provided the light installation is in accordance with data approved prior to August 11, 1971, and the applicable criteria of Advisory Circular 43.13-2 are met.

AMENDMENT HISTORY:

This STC has been previously amended on the following dates:

7/15/68, 7/19/68, 11/25/68; 1/17/69, 2/18/69, 4/18/69; 3/3/70, 12/10/70; 4/21/71, 9/14/71; 5/18/72, 9/22/72, 11/7/72; 7/21/76;
10/4/78; 3/26/81, 8/5/81, 8/25/81; 5/21/82; 7/16/91; 6/7/99; 6/18/99

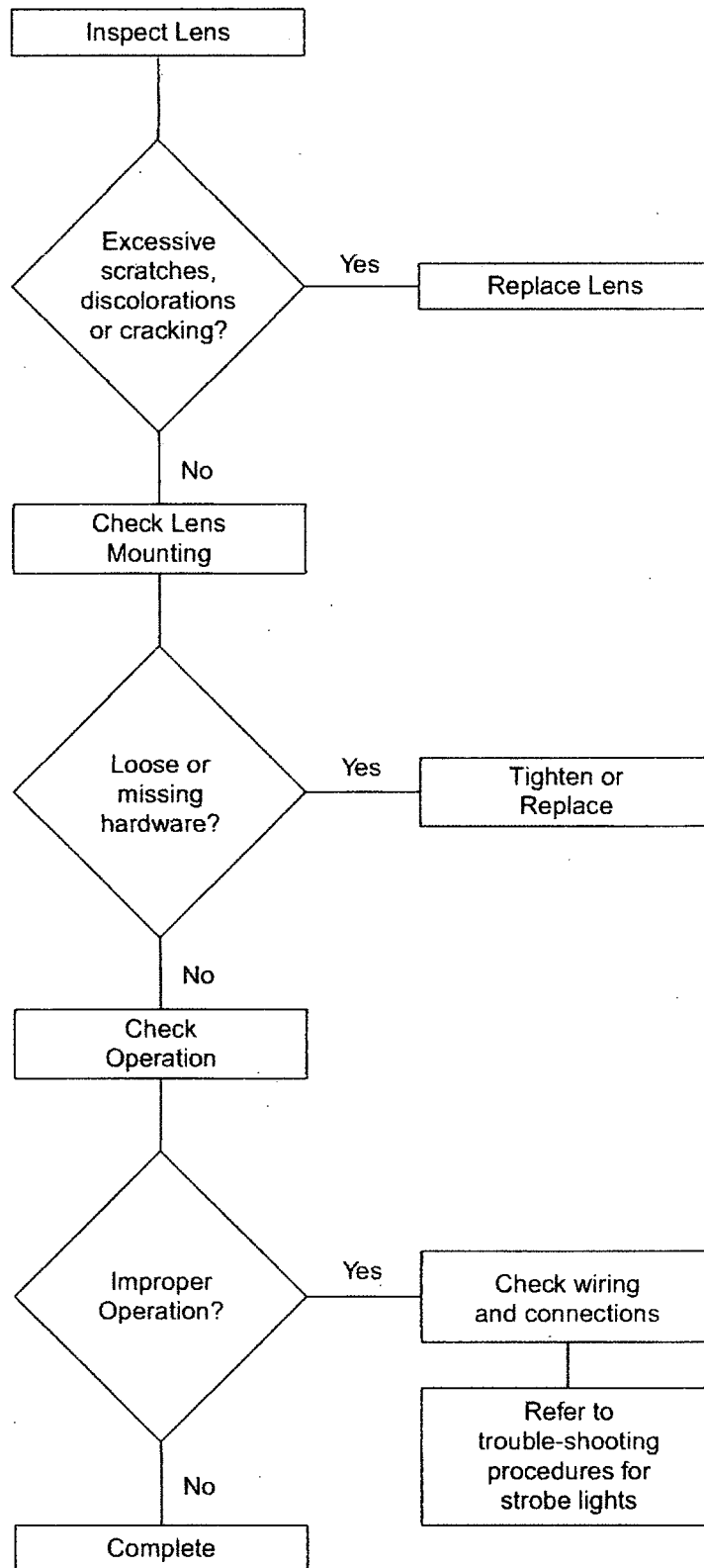
Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

FAA Form 8110-2-1(10-69)

Page 2 of 6

This certificate may be transferred in accordance with FAR 21.47.

CONTINUED AIRWORTHINESS FLOW CHART



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

Number SA615EA

Date Amended: June 17, 2005

ELIGIBILITY LIST June 18, 1999

AIRCRAFT MANUFACTURER	MODEL	TYPE CERTIFICATE
Piper	**PA-11	A-691
	**PA-12	A-780
	**PA-14	A-797
	**PA-15	A-800
	**PA-16	1A1
	**PA-17	A-805
	**PA-18 Series, PA-19	1A2
	**PA-20	1A4
	**PA-22 Series	1A6
	**PA-25 Series	2A8
	PA-23, PA-23-160, *PA-23-235 *PA-23-250, *PA-E23-250	1A10
	PA-24, -24-250, -24-260, -24-400	1A15
	PA-28-140, -28-150, -28-151, -28-160, -28-161, -28-180, -28-235, -28S-160, -28R-180, -28S-180, -28-181, -28R-200, -28R-201, -28R-201T, -28RT-201, -28RT-201T, -28-201T, -28-236	2A13
	PA-30, PA-39	A1EA
	PA-31P	A8EA
	PA-31, PA-31-300, 325, 350	A20SO
	PA-32-260, -300, -32S-300	A3SO

NOTES TO ELIGIBILITY LIST:

- *1. Aircraft as marked require specific attention to proper balancing of the rudder. Refer to the Manufacturer's Service Manual for balancing instructions.
- **2. Installations on these aircraft require prior or concurrent installation of STC SA4-977.
- ***3. The Model HS-24 replaces the Anti-Collision beacon supplied in Bell's Night Flying Kit, P/N 206-706-303 on Models 206A and 206B.

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

FAA Form 8110-2-1(10-69)

Page 6 of 6

This certificate may be transferred in accordance with FAR 21.47.



U.S. Department
of Transportation
Federal Aviation
Administration

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

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification

WP2784

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 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. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

1. Aircraft	Make Piper	Model PA23-250 - 6PCLM
	Serial No. 27-4480	Nationality and Registration Mark N13839
2. Owner	Name (As shown on registration certificate) John G Deaton	Address (As shown on registration certificate) P. O. Box 7007 Petaluma, CA 94955.

3. For FAA Use Only

--	--	--	--	--	--

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

6. Conformity Statement

A. Agency's Name and Address	B. Kind of Agency	C. Certificate No.
Walter Mangon Petaluma Municipal Airport 501 Sky Ranch Drive Petaluma, CA 94954-3908	<input checked="" type="checkbox"/> U.S. Certificated Mechanic	1570369
	<input type="checkbox"/> Foreign Certificated Mechanic	
	<input type="checkbox"/> Certificated Repair Station	
	<input type="checkbox"/> Manufacturer	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 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.

Date 10/05/06	Signature of Authorized Individual Walter Mangon
------------------	---

7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA Flt. Standards Inspector	Manufacturer	<input checked="" type="checkbox"/>	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station		Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 10/05/06		Certificate or Designation No. 1570369		Signature of Authorized Individual Walter Mangon	

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.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N13839

10/05/06

Installation of Brackett Engine Air Filter.

1. Installed to Lt. & Rt. Engine compartment Bracket Engine Air Filter Assembly BA-3510, with Filter Element BA3505 in accordance with Federal Aviation Administration Supplemental Type Certificate Number SA71GL, List 1.
2. Installation in accordance with the instructions as provided in Brackett instruction sheet BA-3510-04, Rev. Dtd. 3/7/90. Steps 1 thru 5 completed.
3. Continued Airworthiness requirements instructions, Brackett Air filter Document I-194, dated 03/16/1994 made part of aircraft operation records. (Filter Assembly BA3510, uses Filter Element BA3505.

***** NOTHING FOLLOWS *****

☐ Additional Sheets Are Attached

BRACKETT FILTER MODEL <u>BA-3310</u> APPLICABILITY LIST			
AIRPLANE MODEL	T.C. NO.	DESCRIPTION OF TYPE DESIGN CHANGE	APPROVED DATE
Piper PA-31P, PA-31P-350	A8EA	Install BA-3310 Filter Assembly in accordance with installation instructions PN BA-3310-06 dated March 3, 1991 or later FAA approved revision.	March 12, 1991
BRACKETT FILTER MODEL <u>BA-3510</u> APPLICABILITY LIST			
Piper PA-23-250, PA-E23-250 with Lycoming T10540- (engine eligible SN's 27-4426, 27-4574 and up).	1A10	Install BA-3510 Filter Assembly in accordance with installation instructions PN BA-3510-04 dated October 9, 1985 or later FAA approved revision.	July 31, 1986
<p style="text-align: center;">FAA APPROVED</p> <p style="text-align: center;">JUN 1 8 1992</p> <p style="text-align: center;">LOS ANGELES AIRCRAFT CERTIFICATION OFFICE INITIALS: <u>R am</u></p>			
BRACKETT FILTER MODEL <u>BA-3810</u> APPLICABILITY LIST			
Cessna 411, 411A	A7CE	Install BA-3810 Filter Assembly in accordance with installation instructions PN BA-3810-04 dated June 26, 1991 or later FAA approved revision.	Mar. 19, 1992

United States of America
Department of Transportation — Federal Aviation Administration
Supplemental Type Certificate

Number SA71GL

This certificate is issued to Brackett Aircraft Company, Inc.

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified herein meets the airworthiness requirements of Part Specified under certification basis on the applicable Data Sheets or Aircraft Specifications.
Regulations.

Original Product — Type Certificate Number:

Make: As shown on Approved Model List(s)
Model:

Description of Type Design Change:

Replace existing engine air filter frame assembly with Brackett Aircraft Specialties frame assembly in accordance with Approved Model List.

NOTE: FAA- Approved Model List(s) form a part of this certificate.

Limitations and Conditions: 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 interrelationship between this change and any of those other previously approved modifications will introduce no adverse effect upon the airworthiness of that aircraft.

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: January 9, 1975

Date issued: March 3, 1983

Date of issuance: February 21, 1975

Date amended:



By direction of the Administrator

James A. Bridger
(Signature)

Supervisor, Aircraft Modification Section

(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.

BRACKETT AIR FILTERS

INSTRUCTIONS

713938

ASSEMBLY PART NO. BA-3510

27-4480

APPROVED ON AIRCRAFT MODELS: SEE FAA APPROVED APPLICABILITY LIST.

REPLACES: PIPER 26874-00
P11-4419

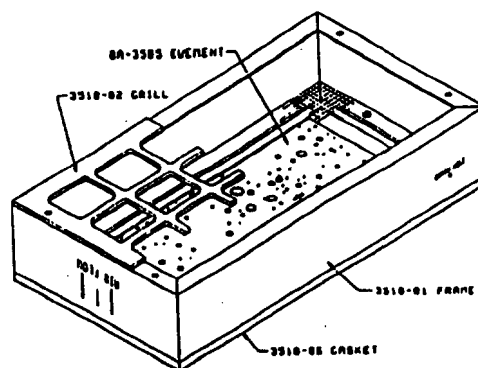
BRACKETT AIR FILTERS
PA-23-250 TURBO
FILTER BA-3510 BRACKET
FILTER BA-3505 ELEMENT
INSTALLED NOV. 11, 1995

FAA APPROVAL DATA: STC-SA71GL LIST NO. 1
FAA-PMA SUPPLEMENT NO. 1

Your new polyurethane air filter has been designed to give maximum dust collecting efficiency, good air flow, lightweight, and economical element replacements. The element has been treated with a special treatment called a wetted agent and is approximately 98% efficient. The special wetted agent is the secret to the efficiency of capturing dust and repelling water. The element has also been treated with a fire retardant. For the above reasons, replace the element each 200 hours of use or every 12 months or when 50% covered with foreign material. Do NOT wash and reuse.

INSTALLATION INSTRUCTIONS

- Step 1. Remove and discard original filter.
- Step 2. Remove BA-3505 element from poly bag and insert into frame.
- Step 3. Screw grill onto frame with the 4 screws & 4 internal lock-washers provided.
- Step 4. Install filter assembly in the same manner as the original.
NOTE: Make sure the hold down clamps press firmly against the filter frame.
- Step 5. NOTE: After initial installation of filter assembly fill out FAA form 337 for return to service. On future replacement of parts this form will not be required.



Servicing: Under normal conditions, replace filter element, P.N. BA-3505, after 200 hours use or 1 year intervals. Under severely dusty conditions, check daily and replace when element is 50% covered with foreign material.

Instruction Sheet
Part No. BA-3510-04
Date: Rev. 3-7-90

Mfg. by:
Brackett Aircraft Co., Inc.
Kingman, AZ 86401

TACH



U.S. Department
of Transportation
Federal Aviation
Administration

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

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification

WP21 Jt

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 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. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

1. Aircraft	Make Piper	Model PA23-250 - 6PCLM
	Serial No. 27-4480	Nationality and Registration Mark N13839
2. Owner	Name (As shown on registration certificate) John G Deaton	Address (As shown on registration certificate) P. O. Box 7007 Petaluma, CA 94955.

3. For FAA Use Only

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

6. Conformity Statement

A. Agency's Name and Address	B. Kind of Agency	C. Certificate No.
Walter Mangon Petaluma Municipal Airport 501 Sky Ranch Drive Petaluma, CA 94954-3908	<input checked="" type="checkbox"/> U.S. Certificated Mechanic	1570369
	<input type="checkbox"/> Foreign Certificated Mechanic	
	<input type="checkbox"/> Certificated Repair Station	
	<input type="checkbox"/> Manufacturer	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 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.

Date 10/05/06	Signature of Authorized Individual <i>Walter Mangon</i> Walter Mangon
------------------	---

7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA Flt. Standards Inspector	Manufacturer	<input checked="" type="checkbox"/>	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station		Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 10/05/06		Certificate or Designation No. 1570369		Signature of Authorized Individual <i>Walter Mangon</i> Walter Mangon	

United States Of America
Department of Transportation - Federal Aviation Administration

Supplemental Type Certificate

Number SA00621LA

This Certificate issued to HORIZON INSTRUMENTS, INC.
600 S. Jefferson St., Unit C
Placentia, California 92870

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 3 of the Civil Aviation Regulations including Amendments 3-1 through 3-9, and 3-10.

Original Product Type Certificate Number: 1A10

Make: Piper

Model: * See Page 3

Description of Type Design Change: Installation of an electronic Digital Engine Tachometer, Horizon Model P-1000 in accordance with Horizon Master Drawing List No. P100075, Rev. N/C dated May 1, 1998, or later FAA approved revisions. Horizon Airplane Flight Manual Supplement No. 1 dated May 4, 1998, or later FAA approved revisions is required.

Limitations and Conditions: The approval of the change in type design applies to the basic airplane of the specified models that are otherwise unmodified. The installation should not be incorporated in any engines of these models unless it is determined that the interrelationship between this installation and any previously approved configuration will not introduce any adverse effect upon the airworthiness of the aircraft. The approval of this modification applies to the above noted airplane model series only. 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

Date of application: April 13, 1998

Date received: January 14, 2002

Date of issuance: May 4, 1998

Date amended:

Aviation Administration



By director of the Administrator

[Signature]
(Signature)

Manager, Technical & Administrative Support
Staff Los Angeles 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.

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

Number SA00621LA

•Models: (Continued)

<u>Aircraft Model</u>	<u>Eligible Aircraft</u>	<u>Horizon Tachometer Part Number</u>
PA-23	All serial numbers	P100075-001
PA-23	Aircraft modified per SA899SW	P100075-003
PA-23-160	All serial numbers	P100075-001
PA-23-160	Aircraft modified per SA899SW	P100075-003
PA-23-235	All serial numbers	P100075-002
PA-23-250	Serial numbers 27-3943 and earlier excluding 27-3837	P100075-002
PA-23-250	Serial numbers 27-3837, and 27-3944 and later	P100075-004
PA-E23-250	Serial numbers 27-3943 and earlier, excluding 27-3837	P100075-002
PA-E23-250	Serial numbers 27-3837, and 27-3944 and later	P100075-004

-END-

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

Wingshield - Vent Windows



U.S. Department
of Transportation
Federal Aviation
Administration

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

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification

WP 2284

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 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. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

1. Aircraft	Make Piper	Model PA23-250 - 6PCLM
	Serial No. 27-4480	Nationality and Registration Mark N13839
2. Owner	Name (As shown on registration certificate) John G Deaton	Address (As shown on registration certificate) P. O. Box 7007 Petaluma, CA 94955.

3. For FAA Use Only

--

4. Unit Identification				5. Type	
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	(As described in item 1 above)				X
POWERPLANT	Lycoming	TIO-540-C1A	L-1532-61		X
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

6. Conformity Statement

A. Agency's Name and Address Walter Mangon Petaluma Municipal Airport 501 Sky Ranch Drive Petaluma, CA 94954-3908	B. Kind of Agency <input checked="" type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer	C. Certificate No. 1570369
--	---	--

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 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.

Date 10/05/06	Signature of Authorized Individual <i>Walter Mangon</i> Walter Mangon
------------------	---

7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA Fit. Standards Inspector	Manufacturer	X	Inspection Authorization	
	FAA Designee	Repair Station		Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 10/05/06			Certificate or Designation No. 1570369		Signature of Authorized Individual <i>Walter Mangon</i> Walter Mangon

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.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N13839

10/05/06

Installation of One Piece Windshield and Forward Side Vented Windows:

1. Installation of Great Lakes Aero Products, 2412 Davidson Road, Flint Michigan 48506, STC 585GL, dtd.
01/05/82 One Piece Windshield, Pn. W/T-2080. Installed using Great Lakes Aero Products Installation Procedure
Inst A8, P. 2, Items 1 through 14.
2. Installation of Great Lakes Aero Products, 2412 Davidson Road, Flint Michigan 48506, STC 731GL, dtd.
2/27/84, Lt Foward Side window WT2085 and Rt Forward Door Window WT2086 . Installed using Great Lakes
Aero Products Installation Procedure A-5.
3. Continued Airworthines instructions remain as Piper PA23-250 Service Manual for inspection for condition and
security of istallation. Clean using mild detergent and soft cotton cloth.

***** NOTHING FOLLOWS *****

☐ Additional Sheets Are Attached

United States of America
Department of Transportation — Federal Aviation Administration
Supplemental Type Certificate

Number SA585GL

This certificate, issued to Great Lakes Aero Products
2412 Davison Road
Flint, Michigan 48506

*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 3 of the Civil Air
Regulations.* (See T. C. Data Sheet No. 1A10 for complete certification basis..)

Original Product — Type Certificate Number: 1A10
Make: Piper
Model: PA-23-250, PA-E23-250

Description of Type Design Change:
Installation of Great Lakes Aero Products windshield P/Ns W-2080, W/T-2080, and
W/G-2080 in accordance with Great Lakes Aero Products Installation Instructions
A-8, dated November 10, 1981 or later approved revisions.

Limitations and Conditions:

Compatibility of this modification with other previously approved modifications
must be determined by the installer.

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

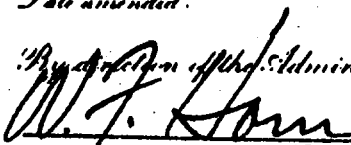
Date of application: November 10, 1981

Date issued: June 26, 1984

Date of issuance: January 5, 1982

Date amended:



By 
W. F. HORN (Signature)

Manager, Chicago Aircraft Cert. Office, ACE-115C
Central Region
(Title)

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

United States of America
Department of Transportation — Federal Aviation Administration
Supplemental Type Certificate

Number SA731GL

This certificate, issued to: Great Lakes Aero Products
2412 Davison Road
Flint, Michigan 48506

*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 3 of the Civil Air*

Regulations: (See Type Certificate Data Sheet 1A10 for complete certification basis.)

Original Product — Type Certificate Number: 1A10

Make: Piper

Model: PA-23-250, S/N 27-2349 and up
PA-E23-250, S/N 27-2349 and up

Description of Type Design Change:
Installation of the Great Lakes Aero Products left hand forward side window (pilot's)
part number W-2085, W/T-2085, W/G-2085, and/or right hand forward side window (door)
part number W-2086, W/T-2086, or W/G-2086 as per instructions A-5, revised
December, 1980 or later approved revisions.

Limitations and Conditions:

The compatibility of this modification with previously approved modifications
must be determined by the installer.

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

Date of application: December 9, 1983

Date issued: June 26, 1984

Date of issuance: February 27, 1984

Date amended:



Signature of the Administrator

W. F. HORN (Signature)

Manager, Chicago Aircraft Cert. Office, ACE-115C
Central Region

Any person who knowingly falsifies or attempts to falsify this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 1 year, or both.

This certificate may be transferred in accordance with § 16.119.

BATTERY Box + Cables



U.S. Department
of Transportation
Federal Aviation
Administration

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

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification

WP21 J24

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 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. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

1. Aircraft	Make Piper	Model PA23-250 - 6PCLM
	Serial No. 27-4480	Nationality and Registration Mark N13839
2. Owner	Name (As shown on registration certificate) John G Deaton	Address (As shown on registration certificate) P. O. Box 7007 Petaluma, CA 94955.

3. For FAA Use Only

4. Unit Identification				5. Type	
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	(As described in item 1 above)				X
POWERPLANT	Lycoming	TIO-540-C1A	L-1532-61		X
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

6. Conformity Statement

A. Agency's Name and Address	B. Kind of Agency	C. Certificate No.
Walter Mangon Petaluma Municipal Airport 501 Sky Ranch Drive Petaluma, CA 94954-3908	<input checked="" type="checkbox"/> U.S. Certificated Mechanic	1570369
	<input type="checkbox"/> Foreign Certificated Mechanic	
	<input type="checkbox"/> Certificated Repair Station	
	<input type="checkbox"/> Manufacturer	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 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.

Date 10/05/06	Signature of Authorized Individual <i>Walter Mangon</i> Walter Mangon
------------------	---

7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA Fit. Standards Inspector	Manufacturer	<input checked="" type="checkbox"/>	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station		Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 10/05/06		Certificate or Designation No. 1570369		Signature of Authorized Individual <i>Walter Mangon</i> Walter Mangon	

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.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N13839

10/05/06

Installation of Battery Box Modification and Copper Cables.

1. Installed STC SA4008NM 08/17/87, Bogert Aviation, battery box modification in accordance with Bogert Aviation Installation Instructions 1-1 dtd. 7/9/87, 1 through 19.
2. Installed STC SA3531NM, 07/15/86, Bogert Aviation Copper Cable Assemblies in accordance with Bogert Aviation Installation Instructions 1 through 9 as listed on AML SA3531. Cables remove #1 Aluminum, replaced with #1 Copper Cables. Replacement of the cable meet the requirements of Piper Service Bulliten 836A.
3. Continued Airworthines remain as per original, inspections for condition, security and proper routing.

***** NOTHING FOLLOWS *****

☐ Additional Sheets Are Attached

United States of America
Department of Transportation — Federal Aviation Administration
Supplemental Type Certificate

Number SA4008NM

This certificate, issued to Bogert Aviation

*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 * of the * Regulations.*

Original Product — Type Certificate Number: * *See attached Master Eligibility List (MEL)
Make: * Number SA4008NM for List of Approved Airplane
Model: * Models and Applicable Airworthiness Regulations.

Description of Type Design Change:

Installation of removable panels on the battery box sides in accordance with Bogert Aviation Installation Instructions Number 1-1, revised July 9, 1987.

NOTE: This is compatible with STC SA3531NM.

Limitations and Conditions: Approval of this change in type design applies basically 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 that the interrelationship 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 and Master Eligibility List (MEL) shall be maintained as part of the permanent records for the modified aircraft.

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: May 23, 1986

Date reissued:

Date of issuance: August 17, 1987

Date amended:



By direction of the Administrator

David G. Smith
(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 MASTER ELIGIBILITY LIST (MEL) SA4008NM

FOR

INSTALLATION OF BATTERY BOX REMOVABLE PANELS

Issue Date: August 17, 1990

ITEM	AIRCRAFT MAKE	AIRCRAFT MODEL	ORIGINAL TYPE CERTIFICATE NUMBER	CERTIFICATION BASIS FOR ALTERATION	FAA SEALED DRAWING LIST		AFM SUPPLEMENT NO. AND DATE	ME AMEND DA
					NUMBER	REVISION NO. AND DATE		
1	PIPER	PA-23 SERIES	1A10	CAR 3 Dated 11/1/49 and Amendments 3-1 thru 3-6 dated 12/15/52, and TCDS 1A10.	1-1	7/09/87	N/A	
2	PIPER	PA-20-115/-135, and PA-20S-115/-135	1A4	CAR 3 and TCDS 1A4.	1-1	7/09/87	N/A	
3	PIPER	PA-22-108/-135/-150/-160 and PA-22S-135/-150/-160	1A6	CAR 3 Dated 11/1/49 and Amendments 3-1 thru 3-6 dated 6/4/51.	1-1	7/09/87	N/A	
4	PIPER	PA-24 SERIES	1A15	CAR 3 Dated 11/1/49 and Amendments 3-1 thru 3-12.	1-1	7/09/87	N/A	
5	PIPER	PA-28-140/-150/-160/-180 and PA-28R-180/-200 and PA-28S-235	2A13	CAR 3 Dated 5/15/56 and Amendments as given in TCDS 2A13.	1-1	7/09/87	N/A	3/2

Page 1 of 2

Issue Date: August 17, 1990

ITEM	AIRCRAFT MAKE	AIRCRAFT MODEL	ORIGINAL TYPE CERTIFICATE NUMBER	CERTIFICATION BASIS FOR ALTERATION	FAA SEALED DRAWING/ DRAWING LIST		AFM SUPPLEMENT NO. AND DATE	ME AMEND D
					NUMBER	REVISION NO. AND DATE		
6	PIPER	PA-25 SERIES	2A8	CAR 3 Dated 5/15/56 and Amendment 3-1 dated 4/1/57.	1-1	7/09/87	N/A	
7	PIPER	PA-30 and PA-39	A1EA	CAR 3 Dated 5/15/56 thru Amendment 3-6 dated 9/13/61, and Par. 3.705(a) of Amendment 3-7 dated 5/3/62, and FAR 23.1557(e)(1) of Amendment 23-7 dated 9/14/69.	1-1	7/09/87	N/A	
8	PIPER	PA-32-260/-300/-301/ and PA-32R-300	A3S0	CAR 3 Dated 5/15/56	1-1	7/09/87	N/A	
9	PIPER	PA-18 SERIES	1A2	CAR 3 and TCDS 1A4.	1-1	2/12/90	N/A	3/2

FAA Approved: Stewart H. M. 200
Assistant Manager, Seattle
Aircraft Certification Office

Amendment Date: March 23, 1990

United States of America
Department of Transportation — Federal Aviation Administration
Supplemental Type Certificate

Number SA3531NM

BOGERT AVIATION
Rt. 1 Box 1676
Prosser, WA 99350

This certificate, issued to Bogert Aviation

*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 * of the **
Regulations.

Original Product — Type Certificate Number: * *See attached FAA Approved Model List (AML) No. SA3531NM for list of approved airplane models and applicable airworthiness regulations.
Make: *
Model: *

Description of Type Design Change: Installation of copper electrical cables in accordance with Bogert Aviation Installation Instructions as listed on AML No. SA3531NM, 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 aircraft of this model which other previously approved modifications are incorporated unless it is determined 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 and FAA Approved Model List (AML) No. SA3531NM amended April 10, 1989, or later FAA approved revision, must be maintained as part of the permanent records for the modified aircraft.

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: May 27, 1986

Date issued:

Date of issuance: July 15, 1986

Date amended: April 10, 1989

By direction of the Administrator



Steven E. MacLean
(Signature)

Acting Assistant 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 (AML) NO. SA3531WH

BOGERT AVIATION

FOR

INSTALLING COPPER ELECTRICAL CABLES

Issue Date: July 15, 1986


ITEM	AIRCRAFT MAKE	AIRCRAFT MODEL	ORIGINAL TYPE CERTIFICATE NUMBER	CERTIFICATION BASIS FOR ALTERATION	INSTALLATION INSTRUCTIONS		AFM SUPPLEMENT NUMBER/DATE	AML AMENDMENT DATE
					NUMBER	REVISION NO. AND DATE		
9	Piper	PA-31, PA-31-300, PA-31-325, PA-31-350	A20S0	CAR 3 dated 5/15/56 thru Amendment 3-8 dated 12/18/62 & TCDS A20S0.	2-5	9/20/86	N/A	9/29/86
10	Piper	PA-31P	A8EA	CAR 3 dated 5/15/56 thru Amendment 3-8 dated 12/18/62 & TCDS A8EA.	2-5	9/20/86	N/A	9/29/86
11	Piper	PA-31T, & PA31T1	A8EA	CAR 3 dated 5/15/56 thru Amendment 3-8 dated 12/18/62 & TCDS A8EA.	2-7	9/20/86	N/A	9/29/86
12	Piper	PA-44-180, PA-44-180T	A19S0	FAR 23 dated 2/1/65 thru Amendment 23-16 & TCDS A19S0.	2-8	9/20/86	N/A	9/29/86
13	Piper	PA-23-250, PA-23-250, PA-23 and PA-23-160	A110	CAR 3 dated 11/1/49 thru Amendment 3-9 dated 12/18/62 & TCDS A110.	2-11	10/16/86	N/A	7/16/87

Page 3 of 7

Issue Date: July 15, 1986

ITEM	AIRCRAFT MAKE	AIRCRAFT MODEL	ORIGINAL TYPE CERTIFICATE NUMBER	CERTIFICATION BASIS FOR ALTERATION	INSTALLATION INSTRUCTIONS		AFM SUPPLEMENT NUMBER/DATE	AML AMENDMENT DATE
					NUMBER	REVISION NO. AND DATE		
14	Piper	PA-38-112	A18S0	FAR 23 thru Amendment 23-16 dated 2/14/75, FAR 36 thru Amendment 36-7 plus equivalent safety finding made for FAR 23.1545(a).	2-6	10/16/86	N/A	11/20/85
15	Piper	PA-25 Series	2AB	CAR 3 dated 5/15/56, and Amendment 3-1.	2-12	05/27/87	N/A	07/16/87
16	Champion (Bellanca, Aeronca)	7GCBC	A-759	CAR 4a as Amended to 4/7/50 except Paragraph 4a.532(m). FAR 23.25 and 23.959 dated 2/1/65 are included.	CH2-1	12/01/88	N/A	04/10/89
17	Luscombe (Larson Luscombe)	8E (SN 833 and up when converted IAW Luscombe Service Dept. Letter of 8/4/47.)	A-694	CAR 4a and TCDS No. A-694 issued 8/11/38.	LU2-1	10/22/88	N/A	04/10/89

Page 4 of 7

 US Department of Transportation Federal Aviation Administration		MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)		Form Approved OMB No. 2120-0020 For FAA Use Only Office Identification	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 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. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).					
1. Aircraft	Make Piper		Model PA23-250		
	Serial No. 27-4480		Nationality and Registration Mark N13839		
2. Owner	Name (As shown on registration certificate) Deaton, John G.		Address (As shown on registration certificate) P.O. Box 163 Vineburg, CA 95487		
	3. For FAA Use Only The data identified herein complies with the applicable airworthiness requirements and is approved for the above described aircraft, subject to conformity inspection by a person authorized in FAR 43, Section 43.7. 10/28/94 <i>[Signature]</i> DATE SIGNATURE OAK-PSDO				
4. Unit Identification					
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	(As described in Item 1 above)				XX
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				
5. Type					
6. Conformity Statement					
A. Agency's Name and Address		B. Kind of Agency		C. Certificate No.	
Bay Avionics, Inc.		U.S. Certificated Mechanic		HS WK3R948L	
Oakland Int'l Airport		Foreign Certificated Mechanic		Inst. Class 1,3,4	
Oakland, CA 94603		<input checked="" type="checkbox"/> Certificated Repair Station		Radio Class 1,2,3	
		Manufacturer		Limited A/F	
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 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.					
Date 10-28-94		Signature of Authorized Individual <i>[Signature]</i>			
7. Approval for Return to Service					
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA Flt. Standards Inspector	Manufacturer	Inspection Authorization	Other (Specify)	
	FAA Designee <input checked="" type="checkbox"/>	Repair Station	Person Approved by Transport Canada Airworthiness Group		
Date of Approval or Rejection 10-28-94		Certificate or Designation No. WK3R948L	Signature of Authorized Individual <i>[Signature]</i>		

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.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

Oct 25, 1994

Piper PA23-250

John G. Deaton

The existing 52 D54 Directional Gyro, KI-209 VOR/ ILS Indicator, KR-86 ADF Receiver, and KA-42B ADF Antenna were removed from this aircraft.

A Bendix/King KCS-55A Compass System with KG-102A Gyro, KI-525A HSI Indicator, KA-51B Slaving Accessory, and KMT-112 Flux Valve, a KR-87 ADF Receiver, KA44B ADF Antenna, KI-229 RMI Indicator, KN-72 VOR Converter, KA-57 Autopilot Adapter, IIMorrow 428-0014 Altitude Alert Indicator, Comant CI 401-3KIC GPS Antenna, KA-33 Cooling Fan, and a Northern Airborne Technology RS08 switching relay and a Ground Clearance / Emergency Radio Master were installed in this aircraft.

This installation was conducted in accordance with Bendix/King Installation Manuals 006-00111-0005, 006-00184-0004, 006-00192-0002, 006-00142-0001, 006-01069-0003, Northern Airborne Technology RS08 Installation Manual Rev. 2.0, IIMorrow ALTI-TRAK Installation Manual 560-4019A Rev1 Comant Installation Instructions A010001 Rev A, A010028, and within the guidelines set forth by FAA AC 34.13-1A chapter 11 and AC43.13-2A chapters 2 and 3.

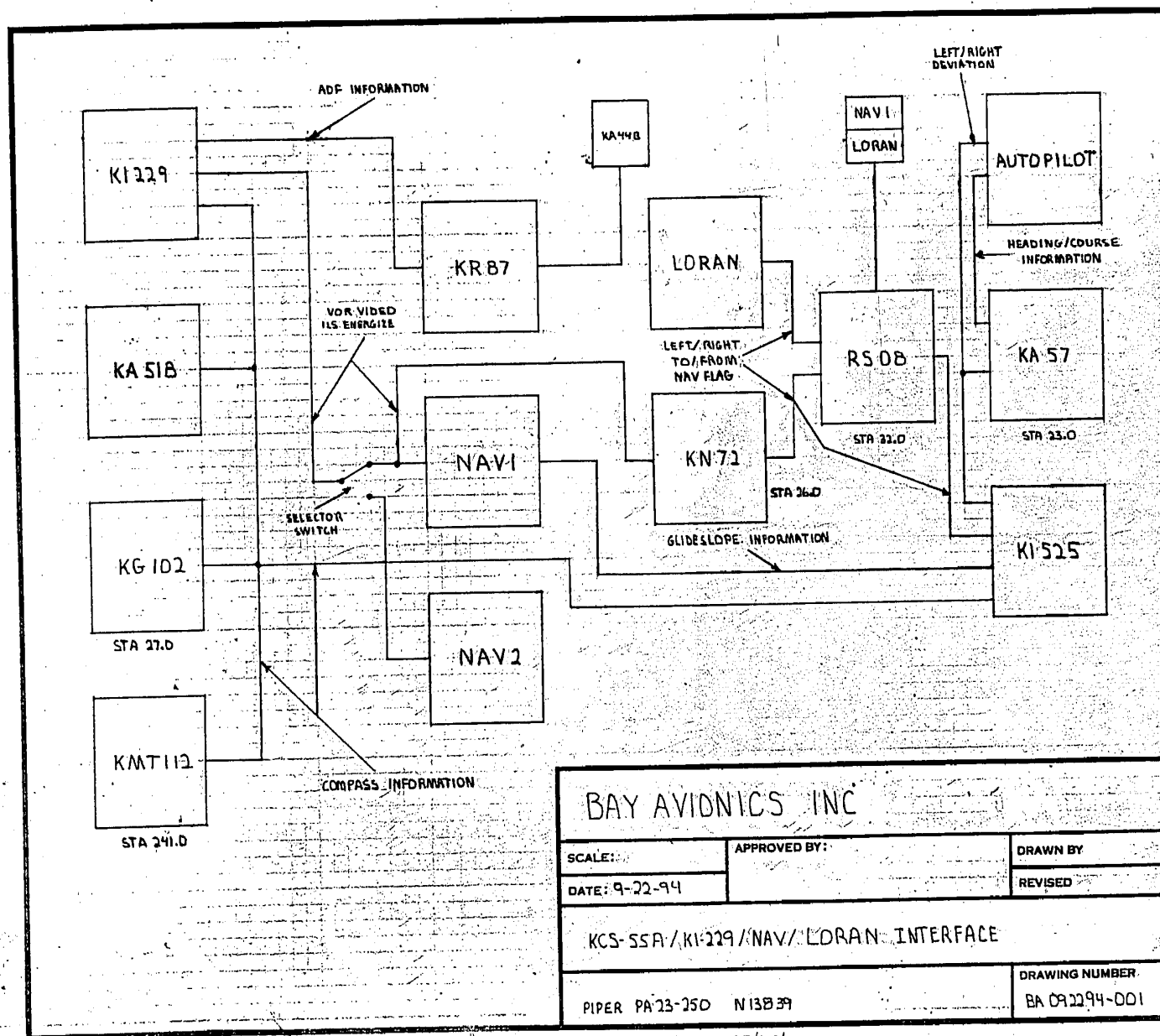
See attached Bay Avionics Inc. drawings number BA092294-001, BA092294-002, BA 090794-001, BA041993-01, BA092994-001 for detailed mounting and installation data.

The continuous electrical load does not exceed 80% of alternator capacity.

The aircraft Weight and Balance and Equipment List has been revised to reflect this change.

-----END-----

☒ Additional Sheets Are Attached



BAY AVIONICS INC

SCALE:

APPROVED BY:

DRAWN BY

DATE: 9-22-94

REVISED

KCS-SSA/KI-229/NAV/LORAN INTERFACE

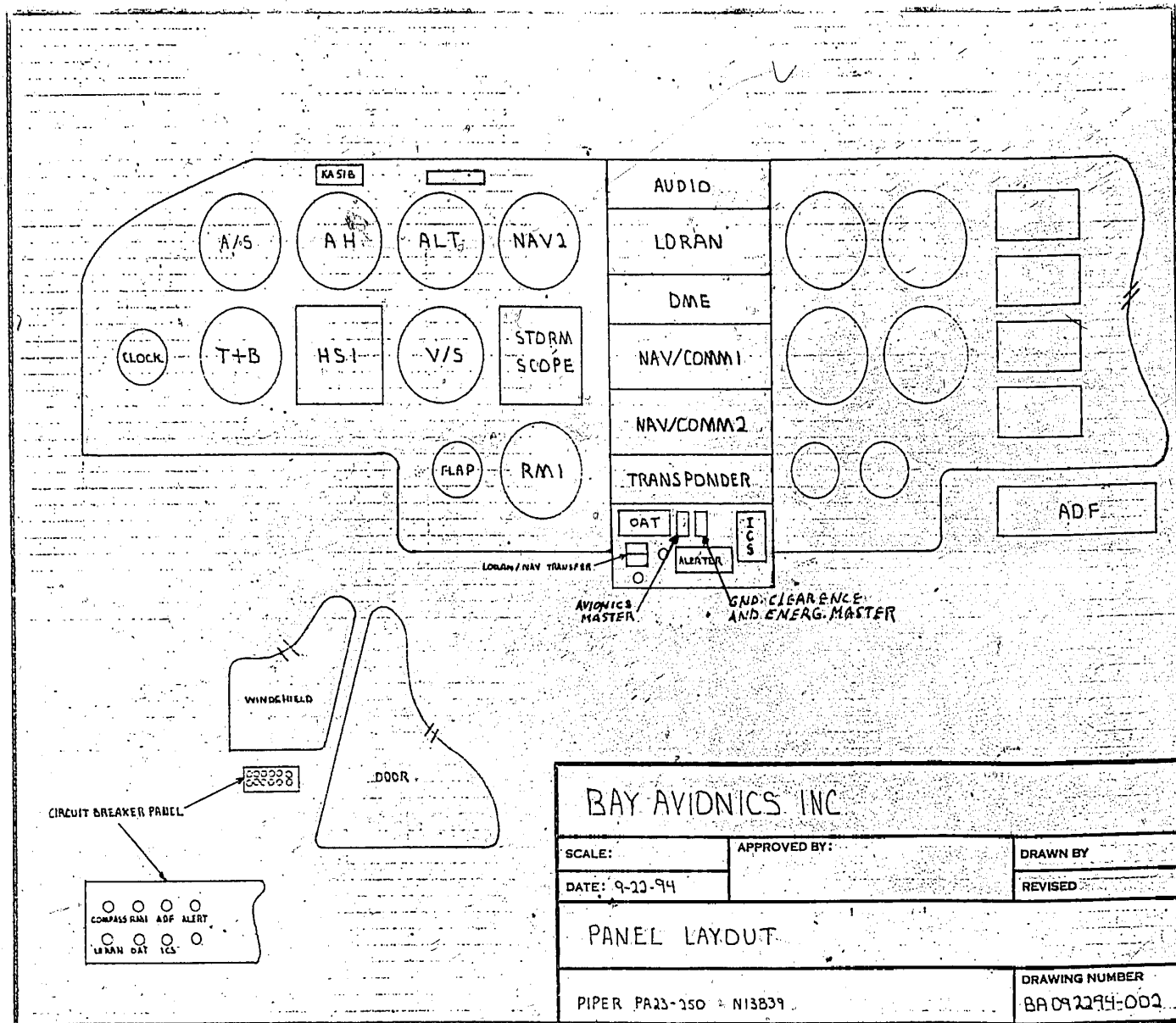
PIPER PA-23-250 N13839

DRAWING NUMBER

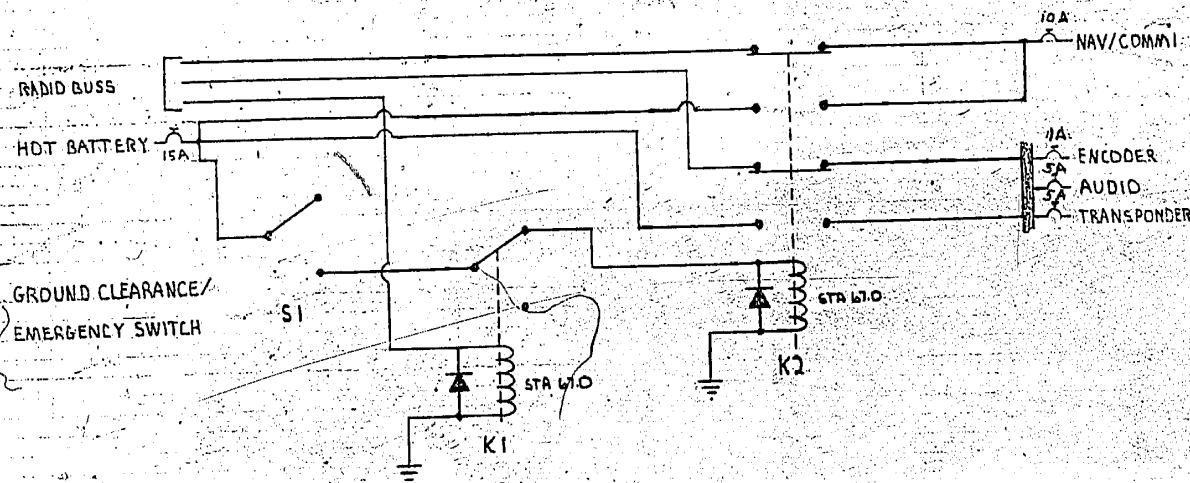
BA 092294-001

8142 11 PRINTED ON NO. 1000H CLEARPRINT

10/29/94



PRINTED ON NO. 1000H CLEARPRINT



NOTES

1. S1 P/N MTA106D
- K1 P/N ER-WKJX-35B
- K2 P/N WUD3402R-631
- DIODES 1N4005
- ALL WIRE MIL 22759-16-XX

BAY AVIONICS INC

SCALE:

APPROVED BY:

DRAWN BY:

DATE: 9-07-94

REVISED

GROUND CLEARANCE/EMERGENCY RADIO MASTER

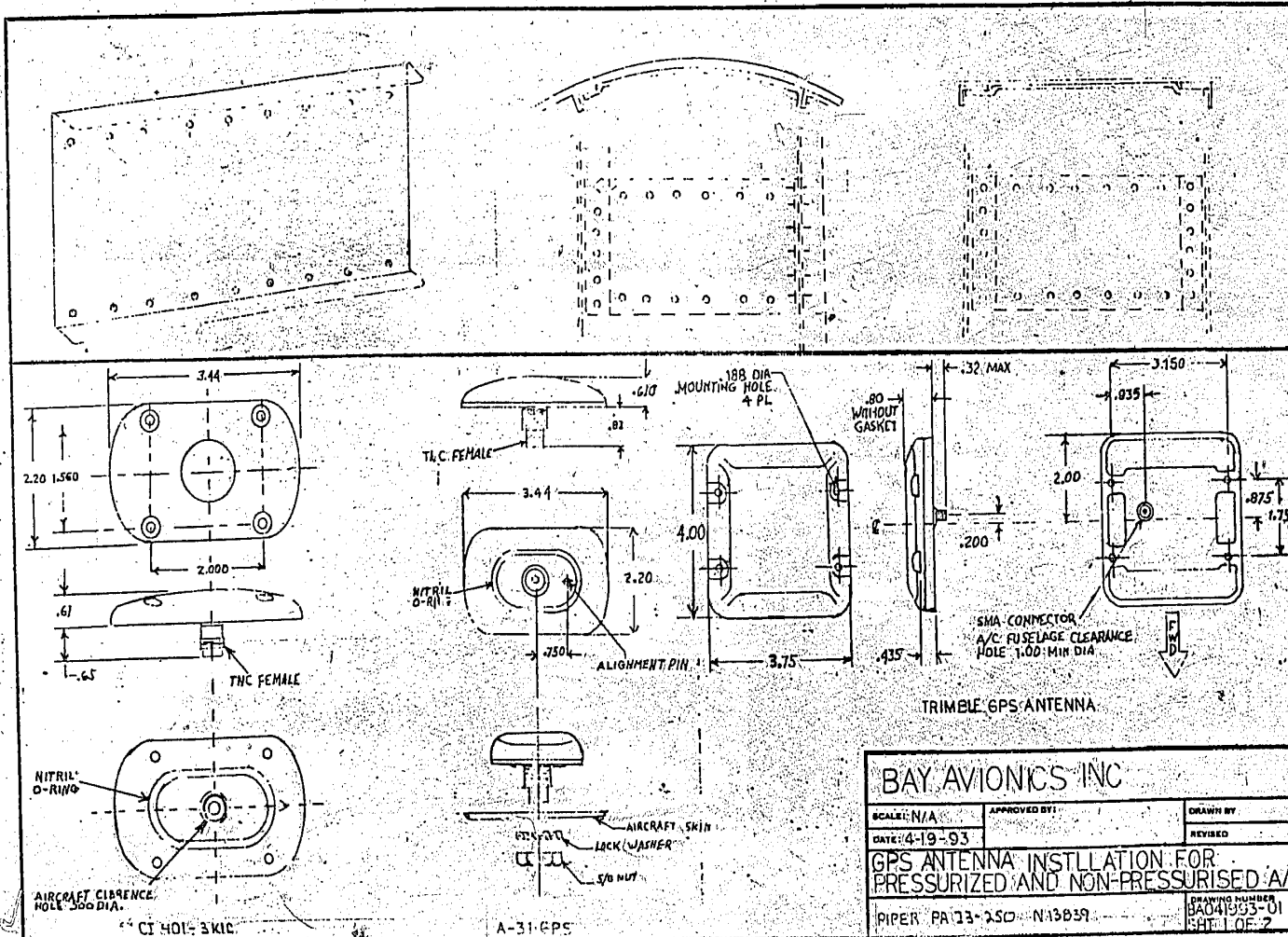
PIPER PA-23-250

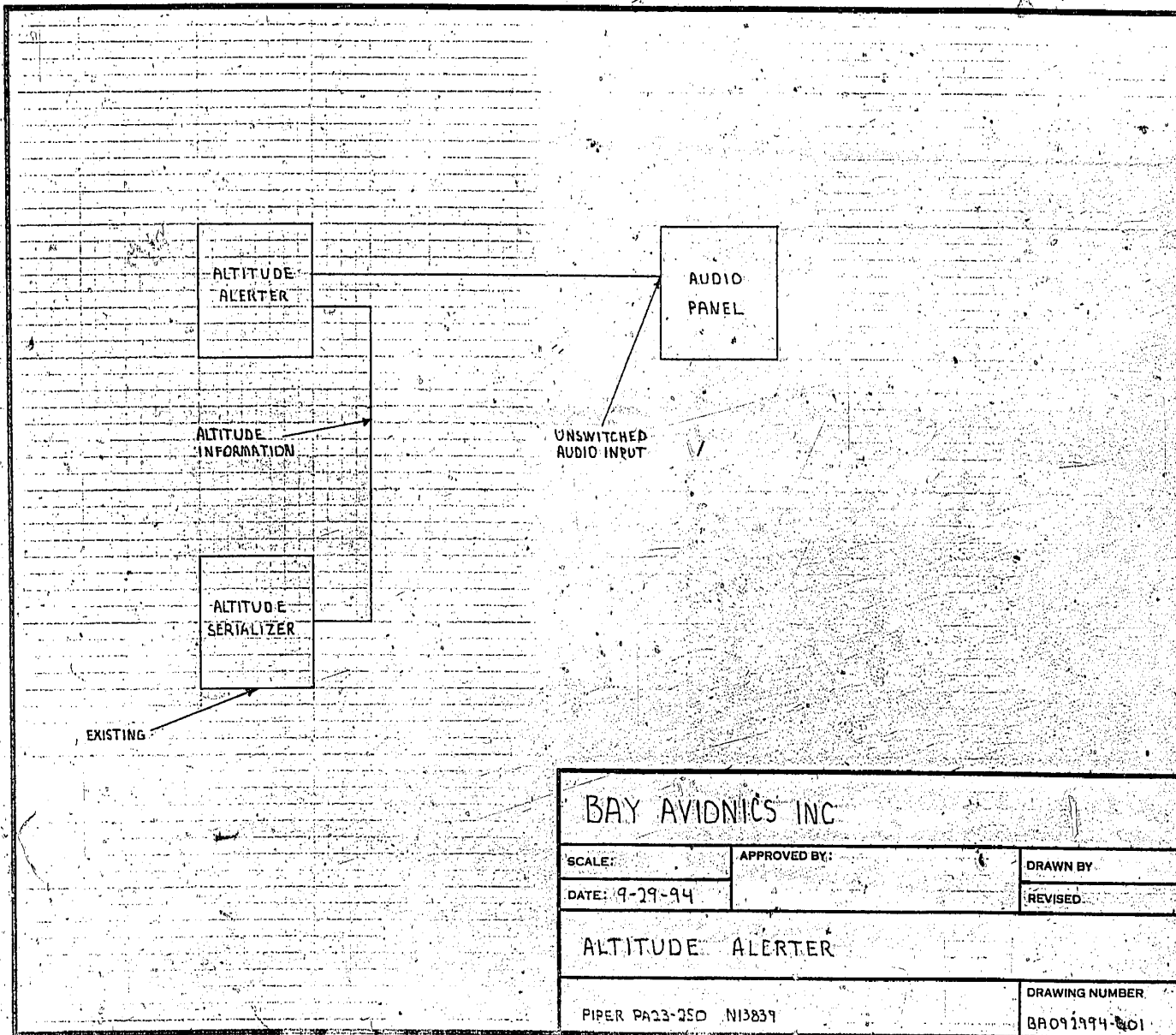
N13839

DRAWING NUMBER

BAD90194-001

10/28/94





DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				Form approved Budget Bureau No. 04-R060.1 FOR FAA USE ONLY	
MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)				OFFICE IDENTIFICATION FSDO16	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.					
1. AIRCRAFT	MAKE PIPER	MODEL PA23-250 (SIX PLACE)		NATIONALITY AND REGISTRATION MARK N13839	
	SERIAL NO. 27-4480				
2. OWNER	NAME (As shown on registration certificate) DIXIE SERVICES, INC.		ADDRESS (As shown on registration certificate) 117 CARRIAGE LANE WAY PONTE VEDRA, FL. 32082		
3. FOR FAA USE ONLY					
4. UNIT IDENTIFICATION					
UNIT	MAKE	MODEL	SERIAL NO.	5. TYPE	
AIRFRAME	***** (As described in item 1 above) *****			REPAIR	ALTERATION
POWERPLANT					
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				
6. CONFORMITY STATEMENT					
A. AGENCY'S NAME AND ADDRESS			B. KIND OF AGENCY		C. CERTIFICATE NO.
RONALD E. CARNER 524 GENTIAN RD. ST. AUGUSTINE, FL 32086			<input checked="" type="checkbox"/> U.S. CERTIFICATED MECHANIC		AP313586855
			<input type="checkbox"/> FOREIGN CERTIFICATED MECHANIC		
			<input type="checkbox"/> CERTIFICATED REPAIR STATION		
			<input type="checkbox"/> MANUFACTURER		
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 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.					
DATE Sept 9, 1991			SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Ronald E. Carner</i>		
7. APPROVAL FOR RETURN TO SERVICE					
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY:	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	<input checked="" type="checkbox"/> INSPECTION AUTHORIZATION <input type="checkbox"/> CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT		OTHER (Specify)
	FAA DESIGNEE	REPAIR STATION			
DATE OF APPROVAL OR REJECTION Sept 9, 1991		CERTIFICATE OR DESIGNATION NO. 313586855 IA	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Ronald E. Carner</i>		

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.

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

INSTALLED MET-CO-AIRL. INTEGRAL 24GAL. AUX. FUEL TANKS
ON EACH WING TIP, CHECK VALVES AND PLUMBING IN ACCORDANCE WITH
STC 1480 WE, DRAWING #11055, SD 1018, AND SD 1025.
INSERTED FLIGHT MANUAL SUPPLEMENT TO FLIGHT MANUAL.
REVISED EQUIPMENT LIST.
REVISED WEIGHT & BALANCE DATA.
NO ELECTRICAL LOAD CHANGE.

END

DATE

NAME OF PERSON OR FIRM
WHICH HAS DONE THE WORK

NAME OF PERSON OR FIRM
WHICH HAS DONE THE WORK

DATE

NAME OF PERSON OR FIRM
WHICH HAS DONE THE WORK

NAME OF PERSON OR FIRM
WHICH HAS DONE THE WORK

☒ ADDITIONAL SHEETS ARE ATTACHED

Federal Aviation Agency

Supplemental Type Certificate

Number SA 1480 WE

This certificate, issued to: Met-Co-Aire, P. O. Box 2216, Fullerton, California 92633

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified herein meets the airworthiness requirements of Part 3 of the ~~Federal Aviation Regulations~~ Regulations effective Nov. 1, 1949 with amendments 3-1 to 3-8 inclusive

Original Product — Type Certificate Number: 1A10
Make: Piper
Model: PA 23, PA 23-160, PA 23-235 and PA 23-250

Description of Type Design Change:

Installation of an integral 24 gal. aux. fuel tank in each wing tip of Piper Models PA 23 and PA 23-160 and 24 or 26 gal. aux. fuel tank in each wing tip of Piper Models PA 23-235 and PA 23-250 per FAA scaled Met-Co-Aire Drawing 11055

Limitations and Conditions:

See Attached Page.

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 Agency.

Date of application: November 17, 1966

Date received:

Date of issuance: August 24, 1967

Date amended: October 19, 1967



By direction of the Administrator:

Robert L. Lippert
(Signature)

Acting Chief, Aircraft Engineering Division
(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$5,000, or imprisonment not exceeding 3 years, or both.

FAA Form 8110-2 (1-66)

This certificate may be inspected in accordance with FAR 21.47.

0052-657-6000

**DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION**

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

Form Approved
Budget Bureau No. 04-R060.1
FOR FAA USE ONLY
OFFICE IDENTIFICATION
SO-FSDO-15

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.

1. AIRCRAFT	MAKE <i>Piper</i>	MODEL <i>PA-23-250</i>
	SERIAL NO. <i>27-4480</i>	NATIONALITY AND REGISTRATION MARK <i>N13839</i>
2. OWNER	NAME (As shown on registration certificate) <i>DIXIE SERVICES</i>	
	ADDRESS (As shown on registration certificate) <i>117 CARRIAGE LANE PONTE VEDRA FL 32082</i>	

3. FOR FAA USE ONLY

4. UNIT IDENTIFICATION				5. TYPE	
UNIT	MAKE	MODEL	SERIAL NO.	REPAIR	ALTERATION
AIRFRAME	***** (As described in item 1 above) *****				<input checked="" type="checkbox"/>
POWERPLANT					
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				

6. CONFORMITY STATEMENT

A. AGENCY'S NAME AND ADDRESS <i>BRAGG AVIATION ELECTRONICS CRAIG AIRPORT JAX FL 32225</i>	B. KIND OF AGENCY <input type="checkbox"/> U.S. CERTIFICATED MECHANIC <input type="checkbox"/> FOREIGN CERTIFICATED MECHANIC <input checked="" type="checkbox"/> CERTIFICATED REPAIR STATION <input type="checkbox"/> MANUFACTURER	C. CERTIFICATE NO. <i>UV1R546K</i>
---	---	--

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 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.

DATE <i>8-5-91</i>	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>[Signature]</i>
-----------------------	--

7. APPROVAL FOR RETURN TO SERVICE

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED

BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	INSPECTION AUTHORIZATION	OTHER (Specify)
	FAA DESIGNEE	REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT	

DATE OF APPROVAL OR REJECTION <i>8-5-91</i>	CERTIFICATE OR DESIGNATION NO. <i>UV1R546K</i>	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>[Signature]</i>
--	---	--

(8320)

FAA Form 337 (7-87)

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.

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N 12839

INSTALL IN A/C 3m STORMSCOPE SYSTEM MODEL WK 10A. INDICATOR
INSTALLED IN A/C PANEL CENTER, LEFT. INSTALLED PROXESON
TO BOTTOM SKIN IN REAR FUSELAGE BEHIND REAR BAGGAGE.
INSTALL ANT. ON RAIL JUST AFT OF REAR FUSELAGE JUST
FORWARD OF PROXESON.

This installation was accomplished in accordance with A.C. 43.13-1A, Chapter 11, section 2, para. 428, 429, 430; section 3, para. 443, 445, 447, 448, 449, 450; A.C. 43.13-2A, chapter 2, para. 21, 22, 23, 24, chapter 3, para. 31 and 38.

Will not cause a hazard to other aircraft systems, operation of the aircraft or its occupants.

The calculated electrical load remains within 80% of the system capacity.

The aircraft equipment list and weight and balance data have been revised.

END

☐ ADDITIONAL SHEETS ARE ATTACHED

FAA AIRCRAFT REGISTRY CAMERA NO. 1N DATE 6-27-91		FOR FAA USE ONLY	
MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)		OFFICE IDENTIFICATION SO-ES00-15	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.			
1. AIRCRAFT	V P. PER 27-4480	MODEL	PA-23-250
2. OWNER	D SERVICES	NATIONALITY AND REGISTRATION MARK	N13839
		ADDRESS (As shown on registration certificate)	117 CARRIAGE LAMP WAY. PONTE VEDRA FL 32082
3. FOR FAA USE ONLY			
4. UNIT IDENTIFICATION			
UNIT	NAME	SERIAL NO.	5. TYPE
AIRFRAME	(As described in item 1)		REPAIR ALTERATION X
POWERPLANT			
PROPELLER			
APPLIANCE	TYPE		
	MANUFACTURER		
6. CERTIFICATION STATEMENT			
A. AGENCY'S NAME AND ADDRESS		B. KIND OF AGENCY	
BRUNY AVIATION ELECTRONICS CRAIG A/P JAX FL 32225		U.S. CERTIFICATED MECHANIC FOREIGN CERTIFICATED MECHANIC CERTIFICATED REPAIR STATION MANUFACTURER	
		C. CERTIFICATE NO.	
		12546K	
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 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.			
DATE		SIGNATURE OF AUTHORIZED INDIVIDUAL	
4-25-91		J. J. Dwyer	
7. APPROVAL FOR RETURN TO SERVICE			
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED			
BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	INSPECTION AUTHORIZATION
	FAA DESIGNER	REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT
			OTHER (Specify)
DATE OF APPROVAL OR REJECTION		SIGNATURE OF AUTHORIZED INDIVIDUAL	
4-25-91		J. J. Dwyer	
CERTIFICATE OR IDENTIFICATION NO.			
U012546K			

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

6. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

INSTALL 4/C POWER IN PLACE PROVIDED. WIRE K2-55, (KING
K1-205, KING KENS WIRE K2-6, WIRE K2-56, BATTERY
202. INSTALL K1-42-8 WIRE ON Gully 6. 4/C JUST
AFT OF FOOTWALL. INSTALL KING WIRE W-70A IN PANEL
IN PLACE PROVIDED

This installation was accomplished in accordance with A.C. 43.13-1A, Chapter 11, section 2, para. 429, 430; section 3, para. 443, 445, 447, 448, 449, 450; A.C. 43.13-2A, chapter 2, para. 21, 22, 23, 24, chapter 3, para. 31 and 38.

Will not cause a hazard to other aircraft systems, operation of the aircraft or its occupants.

The calculated electrical load remains within 80% of the system capacity.

The aircraft equipment list and weight and balance data have been revised.

DATE RECEIVED

10/11/12 (1) 10/11/12 (1) 10/11/12 (1) 10/11/12 (1) 10/11/12 (1)

25147 (10)

1946

459-12-08

YD 111111 111111 111111

1947 JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION

12005

WILLIAMS, LORRAINE, JR. 1941 101 Yuba Park

WILSON, RAYMOND VERNER

11-27-74 11:17 AM

CLASSIFICATION OF LITHOLOGY

20-4200-1

OFFICE OF THE ATTORNEY GENERAL

1974 1:4 1164 1974

1-11-58 10:00 AM

[illegible]

GERMANY MUST BE ATTACKED

PMH

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				Form Approved Budget Bureau No. 04-R060.1	
MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)				FOR FAA USE ONLY	
				OFFICE IDENTIFICATION SO-ESDO-15 JS	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.					
1. AIRCRAFT	MAKE	PIPER		MODEL	PA-23-250
	SERIAL NO.	27-4480		NATIONALITY AND REGISTRATION MARK	N13839
2. OWNER	NAME (As shown on registration certificate)			ADDRESS (As shown on registration certificate)	
	DIXIE SERVICES			117 CARRIAGE LANE WY. PONTE VEDRA FL 32082	
3. FOR FAA USE ONLY					
4. UNIT IDENTIFICATION					
UNIT	MAKE	MODEL	SERIAL NO.	5. TYPE	
AIRFRAME	(As described in item 1 above)			REPAIR	ALTERATION
POWERPLANT					X
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				
6. CONFORMITY STATEMENT					
A. AGENCY'S NAME AND ADDRESS			B. KIND OF AGENCY		C. CERTIFICATE NO.
BARRY AVIATION ELECTRONICS CRAIG WIP Box FL 32225			U.S. CERTIFICATED MECHANIC FOREIGN CERTIFICATED MECHANIC X CERTIFICATED REPAIR STATION MANUFACTURER		UUIR546K
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 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.					
DATE 4-25-91			SIGNATURE OF AUTHORIZED INDIVIDUAL J. J. Dwyer		
7. APPROVAL FOR RETURN TO SERVICE					
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	INSPECTION AUTHORIZATION		
	FAA DESIGNER	X REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT		
DATE OF APPROVAL OR REJECTION 4-25-91		CERTIFICATE OR DESIGNATION NO. UUIR546K	SIGNATURE OF AUTHORIZED INDIVIDUAL J. J. Dwyer		

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.

0. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N 13839

INSTALL IN A/C PANEL IN PLACE PROVIDED KING KX-05, KING KI-209, KING KRA 24, KING KNGF, KING KREK6, DARTON 202. INSTALL KING KA 42-B MAP ON BELLY OF A/C JUST AFT OF COPILOT SEAT. INSTALL KING RT-76A IN PANEL IN PLACE PROVIDED.

This installation was accomplished in accordance with A.C. 43.13-1A, Chapter 11, section 2, para. 428, 429, 430; section 3, para. 443, 445, 447, 448, 449, 450; A.C. 43.13-2A, chapter 2, para. 21, 22, 23, 24, chapter 3, para. 31 and 38.

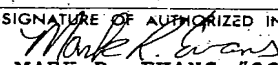

Will not cause a hazard to other aircraft systems, operation of the aircraft or its occupants.

The calculated electrical load remains within 80% of the system capacity.

The aircraft equipment list and weight and balance data have been revised.

END

☐ ADDITIONAL SHEETS ARE ATTACHED

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)				Form Approved Budget Bureau No. 04-R060.1 FOR FAA USE ONLY OFFICE IDENTIFICATION	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.					
1. AIRCRAFT	MAKE PIPER		MODEL PA-23-250D		
	SERIAL NO. 27-4480		NATIONALITY AND REGISTRATION MARK N13839		
2. OWNER	NAME (As shown on registration certificate) HAROLD ZIMMERMAN		ADDRESS (As shown on registration certificate) 1414 E. CENTER ALMA, MI 48801		
	3. FOR FAA USE ONLY				
4. UNIT IDENTIFICATION					
UNIT	MAKE	MODEL	SERIAL NO.	5. TYPE	
AIRFRAME	***** (As described in item 1 above) *****			REPAIR	ALTERATION
POWERPLANT					XX
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				
6. CONFORMITY STATEMENT					
A. AGENCY'S NAME AND ADDRESS			B. KIND OF AGENCY		C. CERTIFICATE NO.
AERO SERVICES TRI-CITY, INC. TRI-CITY AIRPORT FREELAND, MI 48623			U.S. CERTIFICATED MECHANIC		3036
			FOREIGN CERTIFICATED MECHANIC		
			<input checked="" type="checkbox"/> CERTIFICATED REPAIR STATION		
			MANUFACTURER		
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 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.					
DATE			SIGNATURE OF AUTHORIZED INDIVIDUAL		
JANUARY 12, 1987			 MARK R. EVANS #2321562		
7. APPROVAL FOR RETURN TO SERVICE					
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	INSPECTION AUTHORIZATION		OTHER (Specify)
	FAA DESIGNEE	REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT		
DATE OF APPROVAL OR REJECTION 1/12/87		CERTIFICATE OR DESIGNATION NO. 3036	SIGNATURE OF AUTHORIZED INDIVIDUAL		
			 MARK R. EVANS #2321562		

JAN 14 1987

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.

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

INSTALLED II MORROW 612B LORAN C SYSTEM PER II MORROW
INSTALLATION MANUAL #560-0023 REV. 03, AND STANDARD
GENERAL AVIATION PRACTICES.

INSTRUMENT PANEL PLACARDED "LORAN C SYSTEM FOR VFR
NAVIGATION ONLY."

WEIGHT AND BALANCE RE-COMPUTED, A LOGBOOK ENTRY WAS MADE.

A RAMP AND FLIGHT TEST PER FAR AC20-121 WAS PERFORMED.

-----END-----

☐ ADDITIONAL SHEETS ARE ATTACHED

TEST SHEET
BLIND ENCODING ALTIMETER CHECK
AC 43-6, PAR 7, TABLE 2

TEST ALTITUDE	D2	D4	A1	A2	A4	B1	B2	B4	C1	C2	C4	UP READING	OBSERVED ERROR	DOWN READING	OBSERVED ERROR
-1,000 FT.	0	0	0	0	0	0	0	0	0	1	0	-1100	50	-960	10
0 FT.	0	0	0	0	0	0	1	1	0	1	0	-100	50	40	10
500 FT.	0	0	0	0	0	0	1	0	0	1	0	400	50	500	50
1,000 FT.	0	0	0	0	0	1	1	0	0	1	0	900	50	1000	50
1,100 FT.	0	0	0	0	0	1	1	0	1	1	0	1000	50	1100	50
1,300 FT.	0	0	0	0	0	1	1	1	1	0	0	1200	50	1300	50
1,500 FT.	0	0	0	0	0	1	1	1	1	0	1	1400	50	1520	30
1,800 FT.	0	0	0	0	0	1	0	1	0	0	1	1700	50	1800	50
2,000 FT.	0	0	0	0	0	1	0	1	0	1	0	1900	50	2000	50
2,500 FT.	0	0	0	0	0	1	0	0	0	1	1	2500	50	2600	50
2,700 FT.	0	0	0	0	0	1	0	0	0	0	1	2600	50	2700	50
3,000 FT.	0	0	0	0	1	1	0	0	0	1	0	2900	50	3020	30
4,000 FT.	0	0	0	0	1	1	1	1	0	1	0	3900	50	4030	20
6,000 FT.	0	0	0	0	1	0	0	0	0	1	0	5900	50	6030	20
6,800 FT.	0	0	0	1	1	0	0	0	0	0	1	6700	50	6800	50
8,000 FT.	0	0	0	1	1	0	1	1	0	1	0	7900	50	8000	50
10,000 FT.	0	0	0	1	1	1	0	1	0	1	0	9900	50	10000	50
12,000 FT.	0	0	0	1	0	1	1	1	0	1	0	11900	50	12000	50
14,000 FT.	0	0	0	1	0	0	0	0	0	0	1	13880	70	14020	30
14,800 FT.	0	0	1	1	0	0	0	0	0	0	1	14680	70	14850	0
16,000 FT.	0	0	1	1	0	0	1	1	0	1	0	15900	50	16030	20
18,000 FT.	0	0	1	1	0	1	0	1	0	1	0	17900	50	18050	0
20,000 FT.	0	0	1	1	1	1	1	1	0	1	0	19900	50	20030	20
22,000 FT.	0	0	1	1	1	0	0	0	1	0	0				
25,000 FT.	0	0	1	0	1	1	1	0	0	1	0				
30,000 FT.	0	0	1	0	0	0	0	0	1	0	0				
30,800 FT.	0	1	1	0	0	0	0	0	0	0	1				
35,000 FT.	0	1	1	0	1	1	0	0	0	1	0				
40,000 FT.	0	1	1	1	1	0	1	1	0	1	0				
45,000 FT.	0	1	1	1	0	0	1	0	0	1	0				
50,000 FT.	0	1	0	1	0	1	0	1	0	1	0				

ENCODING ALTIMETER TYPE AND MODEL Aerosonic 3 Pt. (20,000)ALTIMETER S/N 21995MODEL TRANSPONDER Narco AT6-AINTERFACE YES x NO MODEL Trans-Cal (If Applicable)
DT20-F2-TA/C MAKE AND MODEL Piper Aztec A/C # N13839CHECK PERFORMED BY [Signature] CRS # 3535DATE PERFORMED 2 April 1975TEST EQUIPMENT USED IFR ATC-600CLASS OF TRANSPONDER Class I TSO'd

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)				Form Approved Budget Bureau No. 04-R060.1 FOR FAA USE ONLY OFFICE IDENTIFICATION 1202	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.					
1. AIRCRAFT	MAKE Piper		MODEL PA 23-250		
	SERIAL NO. 27-4480		NATIONALITY AND REGISTRATION MARK N13839		
2. OWNER	NAME (As shown on registration certificate) Swann Rentals Inc.		ADDRESS (As shown on registration certificate) P. O. Box 42 Sassamansville, Pa. 19472		
	3. FOR FAA USE ONLY				
THE DATA IDENTIFIED HEREIN COMPLIES WITH THE APPLICABLE AIRWORTHINESS REQUIREMENTS AND IS APPROVED FOR THE ABOVE DESCRIBED AIRCRAFT, SUBJECT TO CONFORMITY INSPECTION BY A PERSON AUTHORIZED IN FAR 43, SECTION 43.7.					
DATE <u>4/7/75</u> <u>Steve Klidonas</u> STEVE KLIDONAS, AEA-GADO-3					
4. UNIT IDENTIFICATION					5. TYPE
UNIT	MAKE	MODEL	SERIAL NO.	REPAIR	ALTERATION
AIRFRAME	***** (As described in item 1 above) *****				X
POWERPLANT					
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				
6. CONFORMITY STATEMENT					
A. AGENCY'S NAME AND ADDRESS		B. KIND OF AGENCY		C. CERTIFICATE NO.	
Reading Aviation Service, Inc. P. O. Box 1201 Reading, Pa. 19603		U.S. CERTIFICATED MECHANIC		3535 Airframe 1 & 3 Radio 1, 2, & 3	
		FOREIGN CERTIFICATED MECHANIC			
		X CERTIFICATED REPAIR STATION			
		MANUFACTURER			
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 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.					
DATE 1 April 1975		SIGNATURE OF AUTHORIZED INDIVIDUAL <u>Guy B. LaFollette</u> Rep. 1620876			
7. APPROVAL FOR RETURN TO SERVICE					
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	INSPECTION AUTHORIZATION		OTHER (Specify)
	FAA DESIGNEE	X REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT		
DATE OF APPROVAL OR REJECTION 1 April 1975		CERTIFICATE OR DESIGNATION NO. CRS 3535		SIGNATURE OF AUTHORIZED INDIVIDUAL <u>James H. Franklin</u> - Inspector	

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.

B. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

ITEM	WEIGHT	ARM	LOCATION
Installed: Trans-Cal D120-P2-T Blind Encoder TSO-C-88	1.2	22.0	Nose Compartment

Interface wiring in accordance with Narco AT6-A Installation Manual 3602-600, Figure 2 - 4.

Blind Encoder installed in accordance with Trans-Cal drawing E-100124 installation and AC43:13-2.

Ground checked in accordance with Table 1 of AC43-6

Equipment list revised and weight and balance computed.

All pertinent data referenced herein is on file at CRS 3535.

Work has been accomplished in accordance with AC43:13-1 Chapter 11 AC43:13-2 Chapters 1, 2, & 3.

Continuous electrical load does not exceed 80% of the total output of 140 amperes produced by two 70 ampere alternators.

See weight and balance section of Aircraft Flight Manual for changes reflected by this alteration.

A/C

5A

Original
harness

Narco AT6-A

6 ft.

Blind Encoder

22AWG

Buss

END

☐ ADDITIONAL SHEETS ARE ATTACHED

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)				Form Approved Budget Bureau No. 04-R060.1 FOR FAA USE ONLY OFFICE IDENTIFICATION HAR-FSDO	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.					
1. AIRCRAFT	MAKE Piper		MODEL PA-23-250		
	SERIAL NO. 27-4480		NATIONALITY AND REGISTRATION MARK N13839		
2. OWNER	NAME (As shown on registration certificate) Alaska Transportation Co.		ADDRESS (As shown on registration certificate) 1311 Airport Boulevard San Jose, California 95110		
	3. FOR FAA USE ONLY				
4. UNIT IDENTIFICATION					
UNIT	MAKE	MODEL	SERIAL NO.	5. TYPE	
AIRFRAME	***** (As described in item 1 above) *****			REPAIR	ALTERATION
POWERPLANT					
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				
6. CONFORMITY STATEMENT					
A. AGENCY'S NAME AND ADDRESS		B. KIND OF AGENCY		C. CERTIFICATE NO.	
Lock Haven Airmotive Co. P. O. Box 544 Lock Haven, Pa. 17745		U.S. CERTIFICATED MECHANIC		1764	
		FOREIGN CERTIFICATED MECHANIC			
		<input checked="" type="checkbox"/> CERTIFICATED REPAIR STATION			
		MANUFACTURER			
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 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.					
DATE April 1, 1970		SIGNATURE OF AUTHORIZED INDIVIDUAL <i>J. Lucas</i>			
7. APPROVAL FOR RETURN TO SERVICE					
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	INSPECTION AUTHORIZATION		OTHER (Specify)
	FAA DESIGNEE <input checked="" type="checkbox"/>	REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT		
DATE OF APPROVAL OR REJECTION 4/1/70		CERTIFICATE OR DESIGNATION NO. 1764		SIGNATURE OF AUTHORIZED INDIVIDUAL <i>J. Lucas</i>	

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.

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

THIS INFORMATION ON FILE UNDER WORK ORDER # 10433

1. Installed two Narco Mark 16's.
2. Removed two Narco Mark 12's.
3. Removed & Reinstalled ADF-T-12C. (no wt. change)
4. Installed Fire Extinguisher as per PAC Dwg. # 31989.
5. Installed Whelen Anti-Collision wingtip strobes as supplementary lighting in accordance with aircraft circular 20.30 and AC 43.13-2 and AC 43.13-1.
6. Installed Dual Toe Brakes in accordance with PAC Dwg. 30940.

OLD EMPTY WEIGHT	3309	90.2	298472
Add: Mark 16	7.2	58.0	417.6
Add: Second Mark 16	7.2	58.0	417.6
Remove: Mark 12	- 10.75	50.5	- 542.9
Remove: Second Mark 12	- 10.75	50.5	- 542.9
Add: Fire Extinguisher	5.0	89.0	445.0
Add: Wingtip Strobe Lights	.7	96	67.2
Add: HD-2 Power Supply	3.1	29	89.9
Add: Dual Toe Brakes	8	49	392
	<u>3318.7</u>	<u>90.2</u>	<u>299215.5</u>

BASIC WEIGHT

NEW EMPTY WEIGHT	3318.7	90.2	299215.5
Oil (6 Gal.)	45	55.0	2475
Unusable Fuel (4 Gal.)	24	113.0	2712
	<u>3387.7</u>	<u>89.9</u>	<u>304402.5</u>

Equipment list, weight and balance brought up to date and a satisfactory flight check has been performed.

☐ ADDITIONAL SHEETS ARE ATTACHED