



US Department
of Transportation
Federal Aviation
Administration

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

OMB No. 2120-0020
Exp. 01/31/2023

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 N47815	Serial No. 34-7870004
	Make Piper	Model PA-34-200T
2. Owner	Name (As shown on registration certificate) Fino Plane Co.	Address (As shown on registration certificate) Address 34730 Oakland St. City Farmington State MI Zip 48335-3337 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	Piper	(As described in Item 1 above)	34-7870004
<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 Caleb J. Parker		<input checked="" type="checkbox"/> U. S. Certificated Mechanic	Manufacturer
Address 2392 15th St.		<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.
City Cuyahoga Falls State OH		<input type="checkbox"/> Certificated Repair Station	3441383
Zip 44223 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 Caleb Parker 02/21/2023
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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	<input checked="" type="checkbox"/> Inspection Authorization	

Certificate or Designation No. 3441383	Signature/Date of Authorized Individual Caleb Parker 02/21/2023
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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.)

N47815

February 21, 2023

Nationality and Registration Mark

Date

Installed Aeronautical Testing Services Inc. vortex generator kit, Option 1, 2.0 Installation (vortex generators only) per manufacturers instructions document No. IM94-3, Rev. A , dated June 20, 1994. and STC#SA00109SE.

Weight and balance change is negligible.

AFMS/POHS not required for Option 1.

☐ Additional Sheets Are Attached



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

OMB No. 2120-0020
Exp. 5/31/2018

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 N47815	Serial No. 34-7870004	
	Make Piper	Model PA34	Series 200T
2. Owner	Name (As shown on registration certificate) Fino Plane Co		Address (As shown on registration certificate)
			Address 34730 OAKLAND ST
			City FARMINGTON State MI
			Zip 48335-3337 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	<u>Piper</u>	(As described in Item 1 above)	<u>34-7870004</u>
<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 Matt Lahti		<input checked="" type="checkbox"/> U. S. Certified Mechanic	Manufacturer
Address 6259 Elizabeth Lake Rd		<input type="checkbox"/> Foreign Certified Mechanic	C. Certificate No.
City Waterford State MI		<input type="checkbox"/> Certified Repair Station	2725134
Zip 48327 Country USA		<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  7/16/2019
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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 Flt. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee	Repair Station <input checked="" type="checkbox"/>	Inspection Authorization	Other (Specify)

Certificate or Designation No. 2725134	Signature/Date of Authorized Individual  7/16/2019
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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.)

N47815

7/16/2019

Nationality and Registration Mark

Date

Installation of J.P. Instruments (JPI) EDM-960 Primary Engine Data Management System in accordance with the Installation Manual for the EDM-960, Report No. 909, Revision NC, dated February 22, 2009 or later FAA approved revision. Installed IAW STC SA01828SE. Removal of the Insight G4 engine analyzer including all probes, wiring harness. No change in weight and balance.

END

☐ 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
2/28/2011

Electronic Tracking Number

For FAA Use Only

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

1. Aircraft	Nationality and Registration Mark USA N47815	Serial No. 34-7870004	
	Make Piper	Model PA-34-200T	Series
2. Owner	Name (As shown on registration certificate) Fino Plane Co.	Address (As shown on registration certificate) Address 34730 Oakland St.	
		City Farmington	State Mi
		Zip 48335-3337	Country USA

THE DATA IDENTIFIED HEREIN CONFORMS
WITH THE APPLICABLE AIRWORTHINESS REQUIREMENTS
AND IS APPROVED FOR THE ABOVE DESCRIBED
AIRCRAFT SUBJECT TO CONFORMITY INSPECTION BY A
PERSON AUTHORIZED BY CFR PART 43, SECTION 43.7

DATE: 5-22-2017

FAA INSPECTOR

EMIT DOA/CLE

COORDINATED WITH CHICAGO ACO,
SCOTT FOLZMAN, 5-16-17.

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 Nu Sky Aviation		<input checked="" type="checkbox"/> U. S. Certificated Mechanic
Address 4313 Stockemer		Foreign Certificated Mechanic
City White Lake	State Mi	Certificated Repair Station
Zip 48383	Country USA	Certificated Maintenance Organization
		C. Certificate No. 369544480

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 <i>Gregory E. Smith</i> 5/19/2017
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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	Persons Approved by Canadian Department of Transport
	FAA Designee	Repair Station	Inspection Authorization	Other (Specify)
Certificate or Designation No. 369544480		Signature/Date of Authorized Individual <i>Gregory E. Smith</i> 5/24/2017		

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.)

USA N47815

5/19/2017

Nationality and Registration Mark

Date

Removal of the 7th seat and seat belt if they exist and install placard

" MAXIMUM NUMBER OF OCCUPANTS 6 "

END



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

OMB No. 2120-0020
Exp: 5/31/2018

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 N47815	Serial No. 34-7870004
	Make Piper	Model PA34-200T Series Seneca II
2. Owner	Name (As shown on registration certificate) Fino Plane Co.	Address (As shown on registration certificate)
		Address 34730 Oakland Street
		City Farmington State Michigan
		Zip 48335 Country United States


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	<u>Piper</u>	(As described in Item 1 above)	<u>34-7870004</u>
<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 Eric J. Jaroch		<input checked="" type="checkbox"/> U. S. Certificated Mechanic	Manufacturer
Address 5218 E. Houghton Lake Drive		<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.
City Houghton Lake State Michigan		<input type="checkbox"/> Certificated Repair Station	385847988
Zip 48629 Country United States		<input type="checkbox"/> Certificated Maintenance Organization	

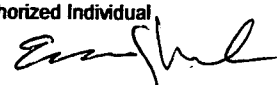
D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and 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  3-19-17
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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 Ft. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee	Repair Station	<input checked="" type="checkbox"/> Inspection Authorization	

Certificate or Designation No. 385847988	Signature/Date of Authorized Individual  3-19-17
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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.)

N47815

3-19-2017

Nationality and Registration Mark

Date

Removed original engine cowl nosebowls. Installed LoPresti Speed Merchants Seneca Nosebowls, Part Number: LSM-200-400-1(2 each) and Part Number: LSM-200-400-2(2 each) issued under Supplemental Type Certificate Number SA1206AT. Installation was performed in accordance with Seneca Nosebowl Installation Instructions LSM-200-402, Revision F, Dated 02/03/10 and LoPresti Speed Merchants Master Drawing List Report No. 37, Revision F, Dated 12-17-12 and AC43.13-2A and 1B. Instructions for Continued Airworthiness were installed in the aircraft permanent records. There is no change in weight and balance with this alteration.

END

☐ 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 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 N47815	Serial No 34-7870004	
	Make PIPER	Model PA-34-200T	Series
2. Owner	Name (As shown on registration certificate) FINO PLANE COMPANY	Address (As shown on registration certificate) 34730 OAKLAND ST FARMINGTON, MI 48335 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 PREFERRED AVIONICS & INSTRUMENTS LLC 3679 Bowen Road Howell, MI 48855 USA	B Kind of Agency <table><tr><td><input type="checkbox"/> U.S. Certificated Mechanic</td><td><input type="checkbox"/> Manufacturer</td></tr><tr><td><input type="checkbox"/> Foreign Certificated Mechanic</td><td><input type="checkbox"/> C Certificate No</td></tr><tr><td><input checked="" type="checkbox"/> Certificated Repair Station</td><td>YPCR724X - RADIO 1, 2, 3 LIM A/F - INST 1, 2, 3, 4</td></tr><tr><td><input type="checkbox"/> Certificated Maintenance Organization</td><td></td></tr></table>	<input type="checkbox"/> U.S. Certificated Mechanic	<input type="checkbox"/> Manufacturer	<input type="checkbox"/> Foreign Certificated Mechanic	<input type="checkbox"/> C Certificate No	<input checked="" type="checkbox"/> Certificated Repair Station	YPCR724X - RADIO 1, 2, 3 LIM A/F - INST 1, 2, 3, 4	<input type="checkbox"/> Certificated Maintenance Organization	
<input type="checkbox"/> U.S. Certificated Mechanic	<input type="checkbox"/> Manufacturer								
<input type="checkbox"/> Foreign Certificated Mechanic	<input type="checkbox"/> C Certificate No								
<input checked="" type="checkbox"/> Certificated Repair Station	YPCR724X - RADIO 1, 2, 3 LIM A/F - INST 1, 2, 3, 4								
<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 RANDALL WELLER 05-May-2016
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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

FAA Flt. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
BY <input type="checkbox"/> FAA Designee	<input checked="" type="checkbox"/> Repair Station	Inspection Authorization	Other (Specify)

Certificate or Designation No. YPCR724X	Signature/Date of Authorized Individual RANDALL WELLER 05-May-2016
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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.)

N47815

Nationality and Registration Mark

May-05-2016

Date

INSTALLED EQUIPMENT

-SANDIA SAI-340 ARTIFICIAL HORIZON

The customer supplied equipment was installed using Sandia Install Manual P/N 306181-00 Rev. 2 dated 1/22/2016 and FAA AC43 13 1B Chapters 7, 10, 11, 12 and FAA AC43 13 2B Chapter 11 and current FARS

Weight & Balance Change Negligible

A complete functional test was performed in accordance with manufacturers installation manual: Sandia Aerospace SAI-340 Install Manual Doc # 306181-00 Rev. 2 dated 1-22-16. The equipment performed satisfactorily and did not adversely effect existing components or systems in the aircraft.

Sandia FAA Approved AFMS was given to customer.

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS.

To insure the system accuracy, all equipment listed above must be checked in accordance with the latest revision Sandia Install Manual P/N 306181-00 Rev. 2 dated 1/22/2016 Reference Section 4 - ICAW. This section is to be utilized by approved mechanics and are required to ensure proper unit functionality and performance on an on-going basis.

-----end-----

☐ ADDITIONAL SHEETS ARE ATTACHED



U.S. Department
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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 N47815	Serial No. 34-7870004	
	Make PIPER	Model PA-34-200T	Series
2. Owner	Name (As shown on registration certificate) FINO PLANE CO	Address (As shown on registration certificate) 34730 OAKLAND ST. FARMINGTON, MI 48335 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	
Huron Avionics, Inc. 140 N. AIRPORT DR. H4NR191N KIMBALL, MI 48074 USA		<input type="checkbox"/> U. S. Certified Mechanic	<input type="checkbox"/> Manufacturer
		<input type="checkbox"/> Foreign Certified Mechanic	C. Certificate No.
		<input checked="" type="checkbox"/> Certified Repair Station	H4NR191N
		<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 WILLIAM C MCKELVEY 08-October-2015
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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

FAA Fit. Standards Inspector	Manufacturer	Maintenance Organization	Persons' Approved by Canadian Department of Transport
BY <input type="checkbox"/> FAA Designee	<input checked="" type="checkbox"/> Repair Station	Inspection Authorization	Other (Specify)

Certificate or Designation No. H4NR191N	Signature/Date of Authorized Individual WILLIAM C MCKELVEY 08-October-2015
--	---

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.)

N47815

Oct-08-2015

Nationality and Registration Mark

Date

A.1. REMOVED THE EXISTING GARMIN GTX32 MODE C TRANSPONDER.

B.1. INSTALLED GARMIN GDL88 ADS-B UAT TRANSCEIVER WIRED TO THE EXISTING GARMIN GTN750/650 GPS/NAV/COM'S TO DISPLAY TRAFFIC AND WEATHER ALL I.A.W. STC# SA02119SE.

2. INSTALLED GARMIN FLIGHTSTREAM 210 WIRED TO THE GARMIN GTN750/650 GPS/NAV/COM'S AND THE GDL88 ADS-B TRANSCEIVER.

3. INSTALLED GARMIN GTX33ES MODE S TRANSPONDER I.A.W. STC# SA0714WI AND WIRED TO THE EXISTING TRANS-CAL SSD120-30A ALTITUDE ENCODER.

C.1. ALL WORK COMPLETED I.A.W. AC43-13-1B CH 11-12 ALL APPLICABLE PARAGRAPHS, AC43.13-2A CH 02-03 ALL APPLICABLE PARAGRAPHS, AC20-138A AND MANUFACTURERS INSTALLATION MANUALS.

2. CONDUCTED ELECTRICAL LOAD ANALYSIS AND THE INSTALLED EQUIPMENT HAS NO EFFECT ON THE INTEGRITY OF THE AIRCRAFT ELECTRICAL SYSTEM.

3. INCLUDED GARMIN DOCUMENTS: INSTRUCTIONS FOR CONTINUED AIRWORTHINESS AND SYSTEM CONFIGURATION / CHECK OUT LOGS IN THE AIRCRAFT MAINTENANCE RECORDS.

4. NEW AIRCRAFT WEIGHT AND BALANCE COMPUTED AND EQUIPMENT LIST REVISED..

*****END*****

☐ ADDITIONAL SHEETS ARE ATTACHED



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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 N47815	Serial No. 34-7870004
	Make Piper	Model PA34-200T Series Seneca II
2. Owner	Name (As shown on registration certificate) Fino Plane Co.	Address (As shown on registration certificate)
		Address 34730 Oakland St.
		City Farmington State Michigan
		Zip 48335 Country United States


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	<u>Piper</u>	(As described in Item 1 above)	<u>34-7870004</u>
<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 Eric J. Jaroch		<input checked="" type="checkbox"/> U. S. Certificated Mechanic	Manufacturer
Address 10850 Sparrow Road		<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.
City Houghton Lake State Michigan		<input type="checkbox"/> Certificated Repair Station	385847988
Zip 48629 Country United States		<input type="checkbox"/> Certificated Maintenance Organization	

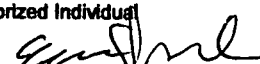
D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and 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  6-11-15
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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 Ft. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee	Repair Station	<input checked="" type="checkbox"/> Inspection Authorization	Other (Specify)

Certificate or Designation No. 385847988	Signature/Date of Authorized Individual  6-11-15
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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.)

N47815

June 11, 2015

Nationality and Registration Mark

Date

Installed new Knots 2U, Ltd. Left and right wing root fairings issued under Supplemental Type Certificate No. SA1238GL. Installation was performed in accordance with Knots 2U, Ltd. Manual No. 34WR-M, Issue Date: 7-4-87, Rev. D, Rev. Date: 3-31-10 and AC43.13 1B and 2A. Inserted Knots 2U, Ltd. Piper PA-34 Wing Root Fairing Installation and Maintenance Manual with aircraft records. Instructions for Continued Airworthiness were inserted into the aircraft records. The aircraft weight and balance records were updated to reflect this alteration

END

☐ Additional Sheets Are Attached



US Department
of Transportation
Federal Aviation
Administration

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

OMB No. 2120-0020
Exp: 5/31/2018

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 N47815	Serial No. 34-7870004	
	Make Piper	Model PA34-200T	Series Seneca II
2. Owner	Name (As shown on registration certificate) Fino Plane Co.		Address (As shown on registration certificate)
			Address 34730 Oakland St.
			City Farmington State Michigan
			Zip 48335 Country United States

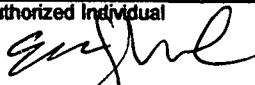
3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	<u>Piper</u>	(As described in Item 1 above)	<u>34-7870004</u>
<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	Eric J. Jaroch		<input checked="" type="checkbox"/>	U. S. Certified Mechanic	Manufacturer
Address	10850 Sparrow Road		<input type="checkbox"/>	Foreign Certified Mechanic	C. Certificate No.
City	Houghton Lake	State Michigan	<input type="checkbox"/>	Certificated Repair Station	385847988
Zip	48629	Country United States	<input type="checkbox"/>	Certificated Maintenance Organization	

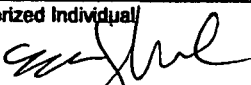
D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and 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  6-11-15
--	--

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 Flt. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee	Repair Station	<input checked="" type="checkbox"/> Inspection Authorization	Other (Specify)

Certificate or Designation No. 385847988	Signature/Date of Authorized Individual  6-11-15
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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.)

N47815

June 11, 2015

Nationality and Registration Mark

Date

Installed new LoPresti SpeedMerchants Speed Spats kit LSM-200-006 issued Under Supplemental Type Certificate No. SA00073AT. Installation was performed in accordance with LoPresti Master Drawing List, Report No. 6, dated July 31, 1992 or later FAA approved Revision and Rev. C, 09-09-13 and AC43.13 1B and 2A. Speed Spats kit includes the following: LSM-200-005-1 Left forward fairing(1 each), LSM-200-005-2 Right forward fairing(1 each), LSM-200-005-3 Left aft fairing(1 each), LSM-200-005-4 Right aft fairing(1 each). Instructions For Continued Airworthiness were inserted into the aircraft records. The aircraft weight and balance records were updated to reflect this alteration.

END

☐ Additional Sheets Are Attached



US Department
of Transportation
Federal Aviation
Administration

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

OMB No. 2120-0020
Exp: 8/31/2014

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 N47815	Serial No. 34-7870004	
	Make Piper	Model PA34-200T	Series Seneca II
2. Owner	Name (As shown on registration certificate) Fino Plane Co.		Address (As shown on registration certificate)
			Address 34730 Oakland St.
			City Farmington State Michigan
			Zip 48335 Country United States

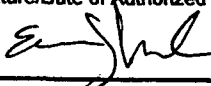
3. For FAA Use Only

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 Eric J. Jaroch	Address 10650 Sparrow Road City Houghton Lake State Michigan Zip 49829 Country United States	<input checked="" type="checkbox"/> U. S. Certificated Mechanic	Manufacturer
		<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.
		<input type="checkbox"/> Certificated Repair Station	385847988
		<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  4-2-15
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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	Persons Approved by Canadian Department of Transport	
	FAA Designee	Repair Station	<input checked="" type="checkbox"/> Inspection Authorization	Other (Specify)	
Certificate or Designation No. 385847988		Signature/Date of Authorized Individual  4-2-15			

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.)

N47815	April 2, 2015
Nationality and Registration Mark	Date

Removed aircraft battery Part Number: 450-035 and installed new Concorde Battery Part Number: Rg35AXC, Serial Number: 40712533 issued under Supplemental Type Certificate No. SA01147WI and FAA/PMA Supplement No. 50, dated 03/07/03. Installation was performed in accordance with Concorde Drawing: 5-0142, Revision J, dated February 20, 2007 and AC 43.13, 1B and 2A. Instructions for Continued Airworthiness were inserted in the aircraft records.

-----END-----

☐ Additional Sheets Are Attached



US Department
of Transportation
Federal Aviation
Administration

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

OMB No. 2120-0020
Exp: 8/31/2014

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 N47815	Serial No. 34-7870004		
	Make Piper	Model PA34-200T	Series Seneca II	
2. Owner	Name (As shown on registration certificate) Fino Plane Co.		Address (As shown on registration certificate)	
			Address 34730 Oakland St.	
			City Farmington	State Michigan
			Zip 48335	Country United States

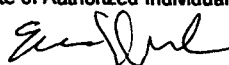
3. For FAA Use Only

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 Eric J. Jaroch	Address 10650 Sparrow Road City Houghton Lake State Michigan Zip 48829 Country United States	<input checked="" type="checkbox"/> U. S. Certificated Mechanic	Manufacturer
		<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.
		<input type="checkbox"/> Certificated Repair Station	385847988
		<input type="checkbox"/> Certificated Maintenance Organization	

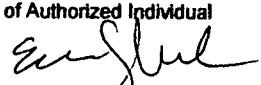
D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and 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  4-2-15
--	--

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 Ftl. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee	Repair Station	<input checked="" type="checkbox"/> Inspection Authorization	

Certificate or Designation No. 385847988	Signature/Date of Authorized Individual  4-2-15
---	--

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.)

N47815

April 2, 2015

Nationality and Registration Mark

Date

Removed Brackett engine air filter assemblies BA-104 from left and right engines. Installed new Challenger Aviation Products, Inc. air filter assembly Part Number: CPE1957(2 each) and gasket Part Number: CP2102(2each). Installation was performed in accordance with Challenger Installation Instructions #0402, Issue Date: May 5, 2010, Revision O and AC43.13 !b and 2A. Challenger Air Filter Instructions for Continued Airworthiness, Issue Date: May 5, 2010, Revision E, Document No. 4003 were inserted into the aircraft records. There is no change in weight and balance with this alteration.

-----END-----

☐ Additional Sheets Are Attached



US Department
of Transportation
Federal Aviation
Administration

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

OMB No. 2120-0020
Exp: 8/31/2014

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 N47815	Serial No. 34-7870004
	Make Piper	Model PA34-200T
2. Owner	Name (As shown on registration certificate) Fino Plane Co.	Series Seneca
	Address (As shown on registration certificate) Address 34730 Oakland Street City Farmington State Michigan Zip 48335 Country United States	

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 Eric J. Jaroch	Address 10650 Sparrow Road City Houghton Lake State Michigan Zip 48629 Country United States	<input checked="" type="checkbox"/> U. S. Certificated Mechanic	Manufacturer
		<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.
		<input type="checkbox"/> Certificated Repair Station	385847988
		<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 <i>E. Jaroch</i> 2-15-15
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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	Persons Approved by Canadian Department of Transport	
	FAA Designee	Repair Station	<input checked="" type="checkbox"/> Inspection Authorization	Other (Specify)	
Certificate or Designation No. 385847988		Signature/Date of Authorized Individual <i>E. Jaroch</i> 2-15-15			

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.)

N47815

2-15-2015

Nationality and Registration Mark:

Date

Removed original pilot and co-pilot sun visors. Installed FAA approved Rosen sun visors P/N RPE-300-2 issued under Supplemental Type Certificate Number SA00072SE. Installation was performed in accordance with FAA approved Rosen sun visor Drawing List Number RPF-00DL, revision C, dated March 3, 2005 or later FAA approved revision and AC 43.13 1B and 2A. There are no airworthiness limitations with this installation. There is no change in weight and balance with this installation.

END

☐ 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 47815	Serial No. 34-7870004	
	Make PIPER	Model PA34-200T	Series
2. Owner	Name (As shown on registration certificate) FINO PLANE CO	Address (As shown on registration certificate) Address 34730 OAKLAND	
		City FARMINGTON	State MI
		Zip 48335	Country

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	CONTINENTAL	TSIO 360-EB	1009404
<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	AVANTGARDE AVIATION	<input checked="" type="checkbox"/> U.S. Certificated Mechanic	Manufacturer
Address	6250 N SERVICE DR	<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.
City	WATERFORD State MI	<input type="checkbox"/> Certificated Repair Station	3699192
Zip	48327 Country	<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  11-13-14 RICHARD LAVOIE 11-7-2014

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 ☒ APPROVED ☐ REJECTED

BY	FAA Flt. Standards Inspector	Manufacturer	Maintenance Organization	Persons 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

1519936



JOHN F. JOHNS 11-7-2014

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.)

47815

Nationality and Registration Mark

11-7-2014

Date

REMOVED SIX CONTINENTAL FUEL NOZZLES P/N GT360-12D AND INSTALLED GENERAL AVIATION MODIFICATIONS INC
TURBOGAMIJECTORS KIT # GT360-12D S/N 24131 STC #SEO9401SC PMA # PQ821SW PER INSTALLATION PROCEDURE # IP-
97-003 [REV NC] DATED 5 DEC 1997, NO CHANGE IN WEIGHT OR
BALANCE*****

*****END*****

☐ 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 47815	Serial No. 34-7870004		
	Make PIPER	Model PA34-200T	Series	
2. Owner	Name (As shown on registration certificate) FINO PLANE CO	Address (As shown on registration certificate) Address 34730 OAKLAND		
		City FARMINGTON	State MI	Zip 48335

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	CONTINENTAL	LTSIO-360-EB	1009579
<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	AVANTGARDE AVIATION	<input checked="" type="checkbox"/> U.S. Certificated Mechanic	Manufacturer
Address	6250 N SERVICE DR	Foreign Certificated Mechanic	C. Certificate No.
City	WATERFORD State MI	Certificated Repair Station	3690287
Zip	48327 Country	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	JOSEPH STEWART	11/13/2014
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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	Persons Approved by Canadian Department of Transport	
	FAA Designee	Repair Station	<input checked="" type="checkbox"/> Inspection Authorization	Other (Specify)	
Certificate or Designation No. 1519936		Signature/Date of Authorized Individual JOHN F JOHNS 11-7-2014			

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.)

47815

Nationality and Registration Mark

11-7-2014

Date

REMOVED SIX CONTINENTAL FUEL NOZZLES P/N 633608-12D AND INSTALLED GENERAL AVIATION MODIFICATIONS INC
TURBOGAMIJECTORS KIT # GT360-12D S/N 24164 STC #SE09401SC PMA #PQ821SW PER INSTALLATION PROCEDURE # IP-
97-003 [REV NC] DATED 5 DEC 1997. NO GHANGE IN WEIGHT OR
BALANCE*****

*****END*****

☐ 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 47815	Serial No. 34-7870004	
	Make PIPER	Model PA34-200T	Series
2. Owner	Name (As shown on registration certificate) FINO PLANE CO	Address (As shown on registration certificate) Address 34730 OAKLAND	
		City FARMINGTON	State MI
		Zip 48335	Country

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	AVANTGARDE AVIATION JOHN F JOHNS	<input checked="" type="checkbox"/> U.S. Certificated Mechanic	Manufacturer
Address	6250 N SERVICE DR	<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.
City	WATERFORD State MI	<input type="checkbox"/> Certificated Repair Station	1519936
Zip	48327 Country	<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 <i>John F Johns</i> JOHN F JOHNS 8-28-2014
---	---

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	Persons Approved by Canadian Department of Transport	
	FAA Designee	Repair Station	<input checked="" type="checkbox"/> Inspection Authorization	Other (Specify)	
Certificate or Designation No. 1519936		Signature/Date of Authorized Individual <i>John F Johns</i> JOHN F JOHNS 8-28-2014			

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.)

47815

Nationality and Registration Mark

8-28-2014

Date

REMOVED INSIGHT EGT/CHT SYSTEM AND INSTALLED INSIGHT GEM P/N 210C-001 MODEL G4 TURBO IAW STC SA09-30NY
AND INSTALLATION MANUAL DOCUMENT #070906, WEIGHT CHANGE NEGLEGABLE

*****END*****

☐ 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

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 \$1,000.00 for each such violation (Section 901 Federal Aviation Act of 1958).

1. Aircraft	Make PIPER	Model PA34-200T
	Serial No. 78-70004	Nationality and Registration Mark 47815
2. Owner	Name (As shown on registration certificate) FINO PLACE CO	Address (As shown on registration certificate) 34730 OAKLAND FARMING, MI 48335

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.
Avantgarde Aviation Inc 6250 N SERVICE DR OAKLAND COUNTY INTERNATIONAL A WATERFORD, MI 48327	<input checked="" type="checkbox"/> U.S. Certificated Mechanic	3599823
	<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 02/21/2012	Signature of Authorized Individual BRAIN SCOTT <i>Brian Scott</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	<input checked="" type="checkbox"/>	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station	<input type="checkbox"/>	Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 02/21/2012		Certificate or Designation No. 1519936	Signature of Authorized Individual JOHN F JOHNS <i>John F Johns</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.)

2/21/2012

N47815

INSTALLED RAPCO VACUUM PUMP COOLING KIT RA40A IAW STC 1015GL INSTALLATION INSTRUCTIONS DATED 3/91 AND
DRAWING 1 AND DRAWING (M).

WEIGHT CHANGE IS NEG

*****END*****

☐ 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 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 USA N47815	Serial No. 34-7870004	
	Make PIPER	Model PA-34-200T	Series
2. Owner	Name (As shown on registration certificate) FINO PLANE COMPANY INC	Address (As shown on registration certificate) 34730 OAKLAND ST FARMINGTON MICHIGAN 48335-3337 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 Huron Avionics, Inc. 140 North Airport Drive Kimball, MI 48074 USA	B. Kind of Agency <table><tr><td><input type="checkbox"/> U. S. Certified Mechanic</td><td><input checked="" type="checkbox"/> Manufacturer</td></tr><tr><td><input type="checkbox"/> Foreign Certified Mechanic</td><td>C. Certificate No.</td></tr><tr><td><input type="checkbox"/> Certified Repair Station</td><td>H4NR191N</td></tr><tr><td><input type="checkbox"/> Certified Maintenance Organization</td><td>RADIO I, II</td></tr></table>	<input type="checkbox"/> U. S. Certified Mechanic	<input checked="" type="checkbox"/> Manufacturer	<input type="checkbox"/> Foreign Certified Mechanic	C. Certificate No.	<input type="checkbox"/> Certified Repair Station	H4NR191N	<input type="checkbox"/> Certified Maintenance Organization	RADIO I, II
<input type="checkbox"/> U. S. Certified Mechanic	<input checked="" type="checkbox"/> Manufacturer								
<input type="checkbox"/> Foreign Certified Mechanic	C. Certificate No.								
<input type="checkbox"/> Certified Repair Station	H4NR191N								
<input type="checkbox"/> Certified Maintenance Organization	RADIO I, II								

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 WILLIAM C MCKELVEY 19-May-2011
--	--

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

FAA Flt. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
BY <input type="checkbox"/> FAA Designee	<input checked="" type="checkbox"/> Repair Station	Inspection Authorization	Other (Specify)

Certificate or Designation No. H4NR191N	Signature/Date of Authorized Individual WILLIAM C MCKELVEY 19-May-2011
--	--

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.)

USA N47815

May-19-2011

Nationality and Registration Mark

Date

PIPER PA-34-200T S/N 34-7870004

A SUMMARY OF THE MODIFICATIONS DONE TO THE AIRCRAFT IS AS FOLLOWS:

A. REMOVED EXISTING ITEMS:

1. GARMIN GNS530W WAAS GPS/NAV/COM SYSTEM
2. GARMIN GNS430W WAAS GPS/NAV/COM SYSTEM
3. GARMIN GMA340 AUDIO PANEL
4. GARMIN GTX327 TRANSPONDER

B. INSTALLED ITEMS:

1. GARMIN GTN750 GPS/NAV/COM I.A.W. STC# SA02019SE-D. #1 SYSTEM WIRED TO EXISTING GA35 WAAS GPS ANTENNA
2. GARMIN GTN650 GPS/NAV/COM I.A.W. STC# SA02019SE-D. #2 SYSTEM WIRED TO EXISTING GA35 WAAS GPS ANTENNA
3. GARMIN GMA35 REMOTE AUDIO PANEL
4. GARMIN GTX32 MODE C TRANSPONDER
5. GARMIN GDL69 XM WEATHER DATALINK.
6. S-TEC GPSS CONVERTER w/REMOTE SWITCH I.A.W. S-TEC INSTALLATION MANUAL ST-901.

C. LOCATION OF INSTALLED ITEMS:

1. ITEM B.1. INSTALLED IN LEFT CENTER RADIO STACK.
2. ITEM B.2. INSTALLED IN RIGHT CENTER RADIO STACK
3. ITEM B.3. INSTALLED WITH GTN750.
4. ITEM B.4, B.5 AND B.6. INSTALLED BEHIND THE RIGHT RADIO STACK.

D.1. THE GARMIN GTN750 AND GTN650 UNITS ARE WIRED TO THE EXISTING KING KI 525A HSI AND THE EXISTING GARMIN GI106A RESPECTIVELY FOR LEFT/RIGHT, TO/FROM, OBS AND NAV VALID

INFORMATION. IT IS ALSO WIRED TO THE GARMIN GTX32 TRANSPONDER FOR ALTITUDE DATA AND THE EXISTING S-TEC SYSTEM 60-2 AUTOPILOT FOR STEERING INFORMATION. THE GTX32 TRANSPONDER AND GDL69A DATALINK ARE WIRED TO BOTH THE GTN750 AND GTN650 FOR CONTROL AND DISPLAY INFORMATION.

2. ALL WORK DONE PER: AC43.13-2B CH 11-12 ALL APPLICABLE PARAGRAPHS, AC43.13-2A CH 02-03 ALL APPLICABLE PARAGRAPHS,

AC20-138B ALL APPLICABLE PARAGRAPHS AND MANUFACTURER'S INSTALLATION MANUALS.

3. CONDUCTED ELECTRICAL LOAD ANALYSIS & INSTALLED EQUIPMENT HAS NO EFFECT ON THE INTEGRITY OF AIRCRAFT ELECTRICAL SYSTEM.

4. INCLUDED INSTRUCTIONS FOR CONTINUED AIRWORTHINESS IN AIRCRAFT MAINTENANCE RECORDS.

5. A CHECKOUT LOG WAS COMPLETED AND IS INCLUDED IN THE AIRCRAFT MAINTENANCE RECORDS.

6. ALL AIRCRAFT ELECTRICAL SYSTEMS TESTED AND GPS DOES NOT INTERFERE WITH ANY SYSTEM.

7. NEW AIRCRAFT WEIGHT AND BALANCE COMPUTED AND AIRCRAFT EQUIPMENT LIST REVISED.

*****END*****

☐ ADDITIONAL SHEETS ARE ATTACHED

UNITED STATES OF AMERICA
DEPARTMENT OF TRANSPORTATION-FEDERAL AVIATION ADMINISTRATION
STANDARD AIRWORTHINESS CERTIFICATE

Accepted RJA Apr/25/2011

1 NATIONALITY AND REGISTRATION MARKS	2 MANUFACTURER AND MODEL	3 AIRCRAFT SERIAL NUMBER	4 CATEGORY
N47815	PIPER PA34-200T	34-7870004	NORMAL

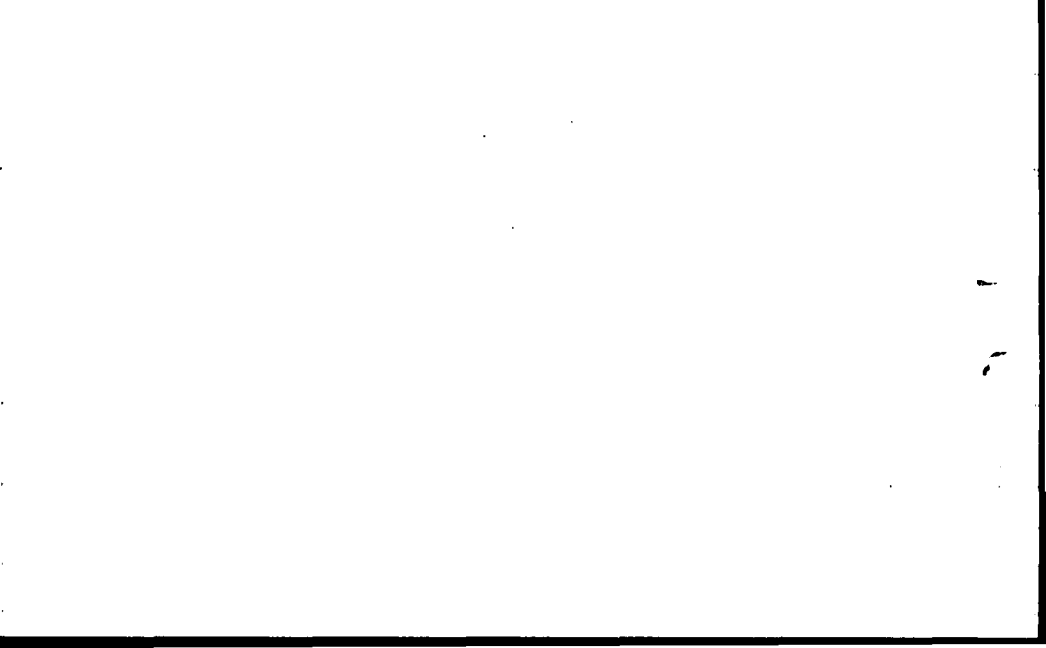
5 AUTHORITY AND BASIS FOR ISSUANCE: This airworthiness certificate is issued pursuant to the Federal Aviation Act of 1958 and certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to conform to the type certificate therefor, to be in condition for safe operation, and has been shown to meet the requirements of the applicable comprehensive and detailed airworthiness standards as provided by Annex 8 to the Convention on International Civil Aviation, except as noted herein. Exceptions:

NONE

6 TERMS AND CONDITIONS: Unless sooner surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator, this airworthiness certificate is effective as long as the maintenance, preventative maintenance, and alterations are performed in accordance with Parts 21, 43, and 91 of the Federal Aviation Regulations, as appropriate, and the aircraft is registered in the United States.

DATE OF ISSUANCE	FAA REPRESENTATIVE	DESIGNATION NUMBER
R 10/17/1977	 RICHARD D. ANDERSON JR.	AGL-23

Any alteration, reproduction, or misuse of this certificate may be punishable by a fine not exceeding \$1,000 or imprisonment not exceeding 3 years or both.
THIS CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT IN ACCORDANCE WITH APPLICABLE FEDERAL AVIATION REGULATIONS.



4/8/11

I CERTIFY THAT THE
AIRWORTHINESS CERTIFICATE
FOR N47815 HAS BEEN LOST

Jy A Fin

[illegible]



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 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 USA N47815	Serial No. 34-7870004	
	Make PIPER	Model PA-34-200T	Series
2. Owner	Name (As shown on registration certificate) LITTLE DREAMS AVIATION LLC	Address (As shown on registration certificate) 29900 LORRAINE AVE STE 350 WARREN, MI 48093-5269 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 Huron Avionics, Inc. 140 North Airport Drive Kimball, MI 48074 USA	B. Kind of Agency <table><tr><td><input type="checkbox"/> U. S. Certified Mechanic</td><td>Manufacturer</td></tr><tr><td><input type="checkbox"/> Foreign Certified Mechanic</td><td>C. Certificate No.</td></tr><tr><td><input checked="" type="checkbox"/> Certified Repair Station</td><td>H4NR191N</td></tr><tr><td><input type="checkbox"/> Certified Maintenance Organization</td><td>RADIO I, II</td></tr></table>	<input type="checkbox"/> U. S. Certified Mechanic	Manufacturer	<input type="checkbox"/> Foreign Certified Mechanic	C. Certificate No.	<input checked="" type="checkbox"/> Certified Repair Station	H4NR191N	<input type="checkbox"/> Certified Maintenance Organization	RADIO I, II
<input type="checkbox"/> U. S. Certified Mechanic	Manufacturer								
<input type="checkbox"/> Foreign Certified Mechanic	C. Certificate No.								
<input checked="" type="checkbox"/> Certified Repair Station	H4NR191N								
<input type="checkbox"/> Certified Maintenance Organization	RADIO I, II								

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 WILLIAM C MCKELVEY 07-March-2008
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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

FAA Fit. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
BY FAA Designee <input checked="" type="checkbox"/>	Repair Station	Inspection Authorization	Other (Specify)

Certificate or Designation No. H4NR191N	Signature/Date of Authorized Individual WILLIAM C. MCKELVEY 07-March-2008
--	---

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.)

USA N47815

Mar-07-2008

Nationality and Registration Mark

Date

PIPER PA-34-200T S/N 34-7870004

A. INSTALLATION OF GNS430W / 530W WAAS GPS/NAV/COMS

VALIDATED THAT THE PREVIOUS INSTALLATION OF ONE GNS430 AND ONE GNS530 WAS INSTALLED IAW WITH GARMIN INSTRUCTIONS AND APPROVED VIA FAA-FORM 337 DATED MARCH 29, 2001. VERIFIED THIS AIRCRAFT AND ALL INTERFACE EQUIPMENT ARE COVERED UNDER THE STC AML. THE GNS430 & GNS530 UNITS WERE REMOVED AND UPGRADED TO GNS430W & GNS530W. THE EXISTING LOCATIONS OF THE GNS430 & GNS530 WERE DETERMINED TO MEET THE FIELD-OF-VIEW REQUIREMENTS WITHOUT NEED FOR EXTERNAL ANNUNCIATION. THE EXISTING WIRING AND SHIELDING WAS INSPECTED AND DETERMINED TO BE IAW THE STC AML INSTALLATION DATA. ONE (1) OF TWO (2) EXISTING GA56 ANTENNAS WAS REMOVED AND REPLACED WITH A GA35 ANTENNA USING THE APPROVED MOUNTING PROVISIONS OF THE PREVIOUS INSTALLATION. A SECOND GA35 ANTENNA WAS ALSO INSTALLED. A SUMMARY OF THE MODIFICATIONS DONE TO THE AIRCRAFT IS AS FOLLOWS:

A1. REMOVED GARMIN GA56 ANTENNA P/N 011-00134-00 AND INSTALLED 2 NEW GA35 GPS/WAAS ANTENNA P/N 013-00235-00, USING THE PROVISION LEFT BEHIND FROM THE STANDARD ANTENNA AND IAW WITH GARMIN UPGRADE MANUAL P/N 190-00356-02 REV.B STC SA01933LA.

A2. REMOVED GARMIN GNS430 P/N 011-00280-01 & GNS530 P/N 010-00182-11 AND INSTALLED GARMIN GNS430W P/N 010-00412-40 / GNS530W P/N 010-00416-40, USING THE PROVISIONS LEFT BEHIND FROM THE STANDARD 430 / 530 UNIT. INSTALLATION DONE IAW WITH GARMIN UPGRADE INSTALLATION MANUAL P/N 190-00356-02 REV.B STC SA01933LA.

A3. THE GNS430W / 530W WAS CONFIGURED IDENTICAL TO THE ORIGINAL 430 / 530 UNIT. EACH INTERFACE WAS CHECKED OUT IAW THE 430W / 530W INSTALLATION MANUAL P/N 190-00356-02 SECTION 5. A COPY OF THE CHECKOUT LOG WAS COMPLETED AND INCLUDED THE PILOT'S AIRCRAFT MAINTENANCE RECORDS.

A4. REMOVED THE AIRCRAFT FLIGHT MANUAL SUPPLEMENT FOR THE GNS430 / GNS530 AND INSTALLED A GNS430W / GNS530W AFMS P/N 190-00356-03 REV. A / 190-00357-03 REV. A, FAA APPROVED DATE NOVEMBER 20, 2007, INTO THE AIRCRAFT FLIGHT MANUAL.

A5. UPDATED THE AIRCRAFT EQUIPMENT LIST AND WEIGHT AND BALANCE TO REFLECT THE NEW WAAS UNITS. THE CURRENT ELECTRICAL LOAD ANALYSIS REMAINS VALID SINCE THE NEW UNITS DRAW THE SAME OR LESS CURRENT THAN THE ORIGINAL UNITS.

B. INSTRUCTIONS FOR CONTINUED AIRWORTHINESS (ICA)

B1. GNS430W / GNS530W - INCLUDED GARMIN DOCUMENT P/N 190-00356-03 REV. A / 190-00357-03 REV. A, GNS430W / GNS530W INSTRUCTIONS FOR CONTINUED AIRWORTHINESS IN THE AIRCRAFT MAINTENANCE RECORDS. NOTE: THESE SUPERSEDE ICAD DATA FOR THE PREVIOUSLY INSTALLED GNS430 / GNS530.

C. INSTALLATION ALTITUDE PRESELECT & ALTITUDE ENCODER

C1. INSTALLED S-TEC ST-360 ALTITUDE PRE-SELECT OPTION TO EXISTING S-TEC SYSTEM 60-2 AUTOPILOT I.A.W. WITH THE S-TEC MANUALS #ST-360 AND STC SA5165SW-D.

C2. INSTALLED TRANS-CAL SSD120-30A SOLID STATE ALTITUDE ENCODER BEHIND THE PILOT PANEL.

*****END*****

☐ 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 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 1958)

1. Aircraft	Nationality and Registration Mark N47815	Serial No. 34-7870004	
	Make Piper	Model PA34-200T	Series Seneca
2. Owner	Name (As shown on registration certificate) Little Dreams Aviation LLC	Address (As shown on registration certificate) 29900 Lorraine Ave., Suite 350	
		City Warren	State Michigan
		Zip 48093	Country United States

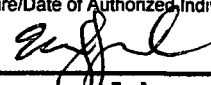
3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial Number
<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 Eric Jaroch		<input checked="" type="checkbox"/> U.S. Certificated Mechanic	<input type="checkbox"/> Manufacturer
Address 10650 Sparrow Rd.		<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.
City Houghton Lake State Michigan		<input type="checkbox"/> Certificated Repair Station	385847988
Zip 48629 Country United States		<input type="checkbox"/> Certificated Maintenance Organization	

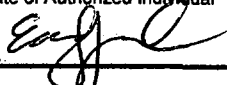
D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and 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  2-18-08
--	---

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. 385847988	Signature/Date of Authorized Individual  2-18-08
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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.)

N47815

Nationality and Registration Mark

2-18-2008

Date

Installed Bob Fields Aerocessories upgrade pump kit P/N: 54-1000 in accordance with Bob Fields Service Bulletin No. BFA-001 dated 11-3-1998, drawing No.: 3920-revision 3, dated 6-1-1980 and AC 43.13-1B and 2A. This action satisfies the AMOC for AD 98-21-21. Installed rear door inflatable seal in accordance with STC No.: SA4324WE, drawing No.: 3920 revision D, dated 10-1-1982 and AC 43.13-1B and 2A. There is no change in weight and balance with these installations Aircraft records were updated to reflect these changes.

END

☐ Additional Sheets Are Attached

Department of Transportation — Federal Aviation Administration
Supplemental Type Certificate

Number SA4234WE

certificate issued to Bob Field Aerocessories

*has that the change in the type design for the following product with the limitations and conditions
 for as specified herein meets the airworthiness requirements of Part 23 of the Federal Aviation
 Regulations. *See Type Certificate Data Sheet A750 for complete certification basis.*

and Product — Type Certificate Number A750
Make Piper
Model PA-34-200, PA-34-200T, PA-34-220T

description of Type Design Change. Installation of inflatable door seal in accordance
 with FAA sealed Bob Fields Aerocessories Drawing No. 3920, "D" revision, dated
 October 1, 1982, or later FAA approved revision.

Limitations and Conditions. The approval of this change in type design applies to
 the basic aircraft of the specified models that are otherwise unmodified. This
 approval should not be extended to other aircraft of these models in 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
 ordered suspended, revoked or a termination date is otherwise established by the Administrator of the
 Federal Aviation Administration.*

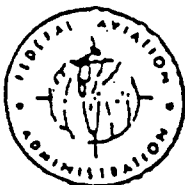
Date of application August 14, 1980

Date received

Date of issuance September 18, 1980

Date amended May 16, 1983

By direction of the Administrator



Lydia C. Davis
 (Signature)

acting 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 21.12

JAN 18 2002



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

GL03

INSTRUCTIONS: Print or type all entries. See FAR 43.9 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 PA34-200T
	Serial No. 34-7870004	Nationality and Registration Mark N47815
2. Owner	Name (As shown on registration certificate) AV CHICAGO, INC	Address (As shown on registration certificate) 3407B N RIDGE AVE ARLINGTON HEIGHTS, IL 60004

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 43.7.

JAN 17 2002

Date

FAA Inspector DPA/FEDO

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 Signature Flight Support - PWK Palwaukee Municipal Airport Wheeling, Illinois 60090	B. Kind of Agency <input type="checkbox"/> U.S. Certified Mechanic <input type="checkbox"/> Foreign Certified Mechanic <input checked="" type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer	C. Certificate No. UD2D209L Class 1, 2 and 3
--	--	--

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 1/14/02	Signature of Authorized Individual Jack Skoczek <i>Jack R. Skoczek</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 Fit. 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 JAN 17 2002		Certificate or Designation No. UD2D209L	Signature of Authorized Individual Jack Skoczek <i>Jack R. Skoczek</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.

B. Description of Work Accomplished

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

Piper PA34-200T, S/N 34-7870004
FAA Form 337 Page 1 of 1

1. Removed the following equipment and components:

- a. 3M WX-1000 Stormscope Antenna p/n 78-8051-9200-8 s/n UWA12902556.
- b. 3M WX-1000 Stormscope Processor p/n 78-8060-5723-4 s/n UWP12902556.
- c. 3M WX-1000 Stormscope Display p/n 78-8051-9170-3 s/n UWD12902556.

Installed Goodrich WX500 Stormscope system (TSO C110a) consisting of:

- a. WX-500 Stormscope Processor p/n 805-11500-001 s/n 80880.
- b. NY-163 Stormscope Antenna p/n 805-10930-001 s/n 80799.

2. The Goodrich WX-500 Stormscope processor was installed at FS 209.0 in accordance with (i/a/w) Goodrich WX-500 Installation Manual P/N 009-11500-001 Rev. D, dated November 9, 2001 and with reference to AC43.13-1B chapters 10, 11, 12 and AC43.13-2A chapters 2 and 11. The WX-500 Stormscope is powered from the 14VDC avionics bus through a 5 amp pullable circuit breaker labeled STORMSCOPE. The WX-500 Stormscope is interfaced and controlled by the existing Garmin GNS530 Transceiver. The Goodrich NY-163 Stormscope Antenna was installed on the bottom of the aircraft at FS 173.2 i/a/w Goodrich WX-500 Installation Manual P/N 009-11500-001 Rev. D, dated November 9, 2001 and with reference to AC43.13-2A chapter 3. Relocated existing STEC System 60-2 Autopilot Programmer from the pilot's lower left subpanel to the pilot's instrument panel above the No. 2 CDI. The aircraft weight and balance and equipment list have been updated to include these changes. Electrical load does not exceed 80% of capacity.
3. Control / Operation Information: N/A
4. Servicing Information: N/A
5. Maintenance Instructions: N/A
6. Trouble Shooting Information: N/A
7. Removal / Replacement Information: N/A
8. Diagrams: N/A
9. Special Inspection Requirements: None
10. Application of Protective Treatments: N/A
11. Data: N/A
12. List of Special Tools: N/A
13. Commuter Category Aircraft Additional Information: N/A
14. Recommended Overhaul Periods: No additional overhaul time limitations.
15. Airworthiness Limitations Section: No additional airworthiness limitations.
16. Revision: A letter will be submitted to the local FSDO with a copy of the revised FAA Form 337 and revised ICA.

-----END-----



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

GL03

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 PA-34-200T
	Serial No. 34-7870004	Nationality and Registration Mark N47815
2. Owner	Name (As shown on registration certificate) AV Chicago, Inc.	Address (As shown on registration certificate) 3407B N. Ridge Ave Arlington Heights, IL 60004

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.
Priester Aviation 26 E. Palatine Road, Hgr# 4 Pal-Waukee Municipal Airport Wheeling Illinois 60090-6391	<input type="checkbox"/> U.S. Certificated Mechanic	CRS # PRIR248H Class 1, 2 & 3
	<input type="checkbox"/> Foreign Certificated Mechanic	
	<input checked="" 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 06/26/01	Signature of Authorized Individual Jack R. Skoczek <i>Jack R. Skoczek</i>
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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	Inspection Authorization	Other (Specify)
	FAA Designee	<input checked="" type="checkbox"/> Repair Station	Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection JUN 26 2001		Certificate or Designation No. PRIR248H	Signature of Authorized Individual Jack R. Skoczek <i>Jack R. Skoczek</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.)

Piper PA34-200T, s/n 34-7870004
FAA 337 Page 1 of 4

1] Removed:

- Edo-Aire / Mitchell AltiMatic-IIIC autopilot system with electric pitch-trim.

Installed:

- Two axis S-TEC autopilot System 60-2 (TSO C9c, C52A) consisting of:
Electric Turn Coordinator p/n 6405-14L; Pitch Computer p/n 0110-51; Roll Computer p/n 0109;
Absolute Pressure Transducer p/n 0111; Roll Servo p/n 0105-R9; Pitch Servo p/n 0107-1-P2;
Programmer / Annunciator p/n 0103-1.
- The electric pitch-trim has been changed to a Piper TC'd manual pitch-trim system by removing the Edo-Aire pitch trim servo & bracket, wiring, yoke & panel mounted switches, Trim circuit breaker and pitch-trim control surface cable. Piper p/n 62701-077 pitch-trim control surface cable for manual pitch-trim has been installed.

- 2] This autopilot installation was performed in accordance with (i/a/w) STC SA5165SW-D and with reference to AC 43.13-1B chapters 10, 11 & 12, and AC 43.13-2A chapters 2 & 11. The manual pitch-trim cable has been installed and rigged per the Piper PA34-200T Maintenance Manual. The aircraft Weight & Balance / Equipment List has been revised to include this change. Electrical load does not exceed 80% of capacity. The S-TEC autopilot is powered from the 14vdc avionics bus through a 5 amp pullable circuit breaker labeled: Autopilot. This installation has been tested and certified for return to service i/a/w the STC installation instructions. A Pilot's Operating Handbook for System 60 Autopilots, p/n 8684 dated 12-99 has been provided.

Use of this autopilot requires FAA Approved Supplement To Pilot's Operating Handbook and/or FAA Approved Airplane Flight Manual for Piper Models PA-34-200T and PA-34-220T with S-TEC System 60 Two Axis Automatic Flight Guidance System (14 Volt System) [for] Reg. NO. N47815, Ser. NO. 34-7870004 be attached to the FAA Approved Airplane Flight Manual and be immediately available to the flight crew.

- 3] Refer to (attached) S-TEC document p/n 81443, Rev. 1 (or later revision) for Instructions for Continued Airworthiness of the S-TEC 60-2 autopilot.

-----END-----

File = PA34-34-7870004-STEC-AP-337.doc

☒ 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.)

FORM 86240, REV. B



INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

S-TEC System 20/30, 30 ALT, 40/50, 40X/50X, 55/55X, 60-1, 60-2, PSS, 65 Autopilots
and Yaw Damper/Trim Systems

1. Introduction

This modification was performed on Piper models PA-34-200, PA-34-200T, and PA-34-220T. The following information, in conjunction with the STC Installation Bulletin (S-TEC P/N) 135, Master Drawing List 9271 and 9272, dated 3-13-01 and AFM Supplement(s) 8982-2, Rev. 2, dated 7-27-87, and 891106, dated 9-12-94 provide adequate guidance to determine that these systems are airworthy.

2. Description

This STC involves the installation of an S-TEC flight control system (System 20/30, 30ALT, 40/50, 40X/50X, 55/55X, 60-1, 60-2, PSS, 65 Autopilot and/or Yaw Damper/Trim Systems). The installation may include one or all of the following installations:

- Roll servo
- Pitch servo
- Trim servo (elevator)
- Yaw servo
- Panel or remotely mounted pitch/roll/yaw computers
- Panel mounted controllers, indicators, switches, and breakers
- Barometric pressure transducer/static source
- Flap motion sensor
- Optional systems (flight director/steering horizon, autotrim system, annunciator, altitude selector/alerter, GPSS converter (has separate ICAW), directional gyro, HSI, and/or other optional systems)

Servo installations utilize aluminum bracketry to secure the servos to the airframe. Attachment to the aircraft primary flight controls and trim systems is accomplished through cable, push-rod, and/or chain assemblies. Installation data for all components listed in the STC are included in the Installation Bulletin 135. Approved interconnections to navigation systems and heading systems are detailed in the Bulletin as well.

3. Controls, Operation Information

Operation of the autopilot and other systems is described in the FAA Approved Flight Manual Supplement(s) (S-TEC P/N) 8982-2, Rev. 2, dated 7-27-87, and 891106, dated 9-12-94. Specialized controls, annunciation, operation and interpretation are covered in this required document and in S-TEC Pilot's Operating Handbooks that supplement the approved AFMS.

4. Servicing Information

All servicing of items included in this STC must be accomplished by approved S-TEC dealers using S-TEC Dealer Maintenance Manuals and S-TEC Test Equipment. Locations and access to the components installed under this STC are described and depicted in the installation drawings and Installation Manual. Removal and replacement of components should be determined by functional checks indicated in the AFM Supplement and the Ground Checks and Flight Adjustment section of the Installation Bulletin for Model ST-032.

Part No. 81443, Rev. 1

Piper PA34-200T, s/n 34-7870004

FAA Form 337 Page 2 of 4

S-TEC 60-2 Instructions for Continued Airworthiness Page 1 of 3

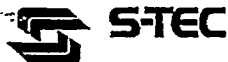
☒ Additional Sheets Are Attached

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.)
FORM 86240, REV. B



INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

S-TEC System 20/30, 30 ALT, 40/50, 40X/50X, 55/55X, 60-1, 60-2, PSS, 65 Autopilots
and Yaw Damper/Trim Systems

5. Maintenance Instructions

Condition and/or airworthiness inspections required under FAR Part 43, or other FAA approved programs, should include several items regarding the S-TEC autopilot System installed in the aircraft.

1. Perform functional checks indicated in the AFM Supplement and the Ground Checks and Flight Adjustment section of the Installation Bulletin for Model ST-032.
2. Component installations should be checked against Installation Bulletin for Model ST-032 to confirm integrity and condition.
3. In servo installations utilizing bridle cables, tension should be verified against values indicated on the Roll/Pitch/Trim/Yaw Servo Installation drawing(s) (found in the Bulletin Master Drawing List) 9271 and 9272, dated 3-13-01. Check for frayed or misaligned bridle cables and excess wear or looseness of any associated idler pulleys.
4. Servo installations utilizing push-rod or chain actuation should be inspected for condition.

6. Trouble Shooting Information

Trouble-shooting this equipment should only be accomplished by authorized S-TEC Dealers with required test equipment and service data. System function should be determined through functional checks indicated in the AFM Supplement(s) 8982-2, Rev. 2, dated 7-27-87, and 891106, dated 9-12-94 and the Ground Checks and Flight Adjustment section of the Installation Bulletin for Model ST-032.

7. Removal and Replacement Information

All components can be removed with common tools and practices. Installation of components required for this alteration must be in accordance with the approved data contained in the Installation Bulletin for Model ST-032.

8. Diagrams

See Installation Bulletin for Model ST-032.

9. Special Inspection

N/A

10. Application of Protective Treatments

Servos, transducers, flap position sensors should be removed prior to application of corrosion (or other) treatments. Panel mounted components should not be exposed to these treatments.

11. Structural Fasteners

See parts list in the Installation Bulletin for Model ST-032 for TSO, PMA, and standard hardware information.

12. Special Tools

N/A

13. The following additional information is being supplied (required for Commuter category airplanes):

Electrical loads are described in the Component Weights and Current Drain section of the Installation Bulletin for Model ST-032.

Part No. 81443, Rev. 1

Piper PA34-200T, s/n 34-7870004

FAA Form 337 Page 3 of 4

S-TEC 60-2 Instructions for Continued Airworthiness Page 2 of 3

☒ Additional Sheets Are Attached

1

2

3

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.)

FORM 86240, REV. B



INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

S-TEC System 20/30, 30 ALT, 40/50, 40X/50X, 55/55X, 60-1, 60-2, PSS, 65 Autopilots
and Yaw Damper/Trim Systems

14. Overhaul Time Limitations

N/A

15. Airworthiness Limitations

None.

16. Revisions

The S-TEC Service Letter/Bulletin program will be utilized to inform aircraft operators of significant changes to this ICA. Contact S-TEC Corporation at 1-800-USA-STECC.

Part No. 81443, Rev. 1

Piper PA34-200T, s/n 34-7870004

FAA Form 337 Page 4 of 4

S-TEC 60-2 Instructions for Continued Airworthiness Page 3 of 3

☐ 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

For FAA Use Only

Office Identification

GLOS

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 PA-34-200T
	Serial No. 34-7870004	Nationality and Registration Mark N47815
2. Owner	Name (As shown on registration certificate) Audio Visual Rentals By Wizdum LTD	Address (As shown on registration certificate) 3353 N Ridge Ave Arlington Heights, IL 60004

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 Priester Aviation 26 E. Palatine Road, Hgr# 4 Pal-Waukee Municipal Airport Wheeling Illinois 60090-6391	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. CRS # PRIR248H Class 1, 2 & 3
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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 03/21/01	Signature of Authorized Individual Jack R. Skoczek <i>Jack R. Skoczek</i>
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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	X Repair Station	Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection MAR 28 2001		Certificate or Designation No. PRIR248H	Signature of Authorized Individual Jack R. Skoczek <i>Jack R. Skoczek</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.)

Piper PA34-200T, s/n 34-7870004

- 1] Removed the following equipment / systems: Collins transponder model TDR-950 p/n 622-2092-001 s/n 5495 and L-band antenna p/n AV-22.
Installed the following equipment / systems: Garmin Transponder system model GTX-327 (TSO C74c Class 1A) p/n 011-00490-00 with KA-60 blade type L-band antenna p/n 071-0159-0001 s/n 50766.
- 2] The GTX-327 installation was done i/a/w manufacturer's installation manuals and conforms to AC43.13-1B chapters 10, 11 & 12 and AC43.13-2A chapters 2 and 3. The GTX-327 is interfaced with the existing Narco AR-850 blind encoder s/n 29076. The GTX-327 is powered from the avionics DC bus through a 5 amp pullable circuit breaker labeled TRANSPONDER. The transponder, altimeter, and encoder systems have been tested and certified as required by FAR 91.411 i/a/w FAR 43 appendix E(a)(b)(c) and FAR 91.413 i/a/w FAR 43 appendix F. The installed system was ground checked per manufacturer's instructions for return to service and found to operate properly with no interference with or from other installed systems. The weight & balance / equipment list was revised to include this installation. Electrical load does not exceed 80% of capacity. The Garmin GTX-327 Mode A/C Transponder Pilot's Guide p/n 190-00187-00, Rev. A has been provided.
- 3] Control / Operation Information for this item: None
- 4] Servicing Information: N/A
- 5] Maintenance Instructions: Other than for regulatory periodic functional checks, maintenance of the GTX-327 transponder is "on condition" only.
- 6] Trouble Shooting Information: N/A
- 7] Removal / Replacement Information: N/A
- 8] Diagrams: N/A
- 9] Special Inspection Requirements: None
- 10] Application of Protective Treatments: N/A
- 11] Data: N/A
- 12] List of Special Tools: N/A
- 13] Commuter Category Aircraft Additional Information: N/A
- 14] Recommended Overhaul Periods: No additional overhaul time limitations.
- 15] Airworthiness Limitation Section: No additional airworthiness limitations.
- 16] Revision: A letter will be submitted to the local FSDO with a copy of the revised FAA Form 337 and revised ICA.

-----END-----

FILE: PA34-34-7870004-GTX327-337.doc

Page 1 of 1

☐ 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

For FAA Use Only
Office Identification

GL03

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 PA-34-200T
	Serial No. 34-7870004	Nationality and Registration Mark N47815
2. Owner	Name (As shown on registration certificate) Audio Visual Rentals By Wizdum LTD	Address (As shown on registration certificate) 3353 N Ridge Ave Arlington Heights, IL 60004

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 43.7.

MAR 09 2001
Date

FAA Inspector DPA FSDO

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 Priester Aviation 26 E. Palatine Road, Hgr# 4 Pal-Waukee Municipal Airport Wheeling Illinois 60090-6391	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. CRS # PRIR248H Class 1, 2 & 3
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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 03/21/01	Signature of Authorized Individual Jack R. Skoczek <i>Jack R. Skoczek</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 Fit. 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 MAR 09 2001		Certificate or Designation No. PRIR248H	Signature of Authorized Individual Jack R. Skoczek <i>Jack R. Skoczek</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.)

Piper PA-34-200T, s/n 34-7870004

FAA 337 Page 1 of 2

- 1] Removed: Collins #2 VHF-251 VHF Com, #2 VIR-351 VHF Nav, #2 IND-351 CDI, GLS-350 Glideslope Receiver, IND-650 ADF Indicator, RCR-650 ADF Receiver, TDR-950 Transponder, and AV-22 L-band antenna.

Installed: Garmin GPS/Nav/Com/Color Moving Map system model GNS-530 as the #1 system (TSO C129a, C40c, C38d, C37d, C36e, C34e) consisting of: Garmin GNS-530 GPS/Nav/Com p/n 011-00550-10, Garmin GA-56 GPS Antenna p/n 011-00134-00, #2 Garmin GI-106A Nav CDI p/n 013-00049-11; #2 Mid-Continent GPS Switching / Annunciator p/n MD41-1464A (TSO C129), KA-118 Demodulator p/n 071-1095-00 (TSO C9c), KA-60 L-band antenna p/n 071-0159-0001 and autopilot relay p/n AIS80-1. Relocated the existing KA-83 Loran-C antenna from top fuselage station 99.0" to 102.0". Moved the existing GNS-430 system from the #1 position to the #2 position. The initial installation and approval of the GNS-530 was accomplished in a Piper PA32 under STC # SA00864WI. The existing GNS-430 was installed by Avionics Place, Rockford, Illinois on FAA 337 dated: March 28, 2000.

- 2] This installation has been accomplished in accordance with (i/a/w): Garmin International GNS-500 Series Installation Manual p/n 190-00181-02 Rev. C, dated September 2000; GNS-400 Series Installation Manual p/n 190-00140-02 Rev. H, dated September 2000; Garmin GI-102A/106A Installation manual p/n 190-00180-00, Rev. B, dated July 1999; Mid-Continent MD41-() Installation manual p/n 9010778 Rev. O, dated May 2000; Standard Avionics Industry practices; AC20-138 Paragraphs 8c, 8c(2), and Appendix 1(2); AC 43.13-1B Chapters 10, 11, 12; AC43.13-2A Chapters 2 and 3. The new GPS antenna has been installed on top of the aircraft at fuselage station 99.0. Re-interfaced the existing GNS-430 to the newly installed GI-106A CDI and the #1 GNS-530 to the existing King KI-525A HSI. The GNS-530 is located in the left-center avionics panel and requires no external switching or annunciators. The existing GNS-430 has been re-located to the right-center avionics panel and has been interfaced with a newly installed remote mounted GPS annunciator switching unit located on the pilot's instrument panel. Steering information from either system can be provided to the existing Century III Autopilot and is selected by a miniature toggle switch labeled AP - Nav1/Nav2. Altitude data for each GPS is derived from the existing Narco AR-850 blind encoder. The GNS-530 is interfaced directly with the AR-850 using Gillham code and the GNS-430 derives its AR-850 altitude information via the RS-232 output of the Garmin GTX-327 transponder. Encoder bit check performed as required by FAR 91.411 i/a/w FAR 43 appendix "E(c)". The existing KLN-88 Loran-C installation has been changed so that the Loran-C no longer is interfaced with any external CDI or autopilot. A placard stating: LORAN-C VFR ONLY has been installed on the aircraft instrument panel. The existing KLN-88 and GNS-430 FAA approved flight manual supplements have been removed from the Pilot's Operating Handbook and retained for reference with their original FAA 337 forms. The aircraft weight & balance / equipment list has been revised to reflect this change. Electrical load does not exceed 80% of capacity. The GNS-530 is powered from the avionics DC bus through a 10 amp pullable circuit breaker labeled COM 1 and 5 amp pullable circuit breaker labeled GPS 1. The #2 MD41-1464A is powered from the avionics DC bus through a 2 amp in-line fuse labeled GPS ANN 2. The autopilot switching relay p/n AIS80-1 is powered from the avionics DC bus through a 1 amp in-line fuse labeled AP NAV.

- 3] This installation function checked per procedures found in the Garmin Post Installation Configuration & Checkout Procedures. Ground checks include verification of conformity to airworthiness criteria i/a/w AC 20-138, paragraph 8b. Each Garmin GPS unit has been placarded "GPS NOT APPROVED FOR NAVIGATION". Completion of paragraph [4] below removes "GPS NOT APPROVED FOR NAVIGATION" placard.

- 4] The GNS-530 and GNS-430 installation has been flight-checked i/a/w AC 20-138, Appendix 1(2)(d), on MARCH 30, 2001 (date), by John R. Skogel, Certificate # PRIR248H, and found to meet the requirements for supplemental IFR enroute, terminal, and non-precision approach flight using GPS as set forth by paragraph 9c2(iv). Results are recorded on Priester Aviation form # GPSCHK-1 and on file with work order # 48811.

This installation requires FAA APPROVED AIRPLANE FLIGHT MANUAL SUPPLEMENT FOR PIPER PA34-200T, SERIAL NUMBER 34-7870004, WITH SINGLE / DUAL GARMIN INTERNATIONAL GNS-530 / GNS-430 GPS/NAV/COM SYSTEM, FAA approved FAA 337 2001 (date). This Airplane Flight Manual Supplement must be attached to the FAA Approved Airplane Flight Manual. For system Limitations, Normal, and Emergency operating instructions, refer to the aircraft AFM.

- 5] See attached document # ICA-GNS430-530 Rev. "A" for Instructions for Continued Airworthiness (ICA) of the dual GNS system.

-----END-----

☒ Additional Sheets Are Attached

FILE = PA34-34-7870004-DualGarmin-337.doc

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.)

Priester Aviation
Palwaukee Municipal Airport
Wheeling, Illinois, USA

Garmin GNS-430 / GNS-530 CMM/GPS/NAV/COM
Piper PA-34-200T, s/n 34-7870004

Instructions for Continued Airworthiness (ICA)

- 1] Introduction: The Garmin GNS-430 / GNS-530 CMM/GPS/NAV/COM system is comprised of the following components: Single or dual GNS-430 Color Moving Map/GPS/NAV/COM p/n 010-00280-10, Single or dual GNS-530 Color Moving Map/GPS/NAV/COM p/n 011-00550-10, Single or dual GA-56 GPS antenna p/n 010-00134-00, and none, single, or dual GI-106A Nav CDI p/n 013-00049-11.
- 2] Description: The Garmin GNS-430 & GNS-530 Color Moving Map/GPS/NAV/COM is/are IFR certified airborne VHF communications transceiver and Navigation Management System (NMS). The NMS includes GPS sensor, VOR/Localizer, and Glideslope receivers. The GNS-()30 includes two removable data cards, one with a Jeppesen database, and the second being an optional custom data card. GPS signals for each system are received by a Garmin GA-56 low profile GPS antenna. Nav steering information is displayed each on the King KI-525A and Garmin GI-106A CDI.
- 3] Control, Operation Information: N/A
- 4] Servicing Information: N/A
- 5] Maintenance Instructions: Maintenance of the GNS-430, GNS-530 GA-56, and GI-106A is "on-condition" only.
- 6] Trouble Shooting Information: N/A
- 7] Removal And Replacement Information: N/A
- 8] Diagrams: N/A
- 9] Special Inspection Requirements: N/A
- 10] Application of Protective Treatments: N/A
- 11] Data: N/A
- 12] List of Special Tools: N/A
- 13] Commuter Category Aircraft: N/A
- 14] Recommended Overhaul Periods: No additional overhaul time limitations.
- 15] Airworthiness Limitation Section: No additional airworthiness limitations.
- 16] Revision: A letter will be submitted to the local FSDO with a copy of the revised FAA Form 337 and revised ICA.

NOTES:

- 1] Initial release of this document begins with revision "A".

Document # ICA-GNS430-530
REV. A
File = PA34-34-7870004-DualGarmin-ICA.doc

FAA 337 Page 2 of 2

☐ 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

For FAA Use Only

Office Identification
DPA-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. 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 PA34-200T
	Serial No. 34-7870004	Nationality and Registration Mark N47815
2. Owner	Name (As shown on registration certificate) Ed Gomboz	Address (As shown on registration certificate) 4510 Kirchoff Rd. Rolling Meadow, IL 60008

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 43.7.

MAR 28 2000

Date

FAA Inspector, DPA-FSDO

3. For FAA Use Only

4. Unit Identification

5. Type

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

6. Conformity Statement

A. Agency's Name and Address	B. Kind of Agency	C. Certificate No.
AVIONICS PLACE 5257 Falcon Road Rockford, IL 61109-2917	<input type="checkbox"/> U.S. Certificated Mechanic	FQ5R866M Radio Limited-Instruments
	<input type="checkbox"/> Foreign Certificated Mechanic	
	<input checked="" 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 28-FEB-00	Signature of Authorized Individual <i>Geoffrey Heberlein</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 <input checked="" type="checkbox"/>	Repair Station	Person Approved by Transport Canada Airworthiness Group	

Date of Approval or Rejection 3-28-00	Certificate or Designation No. FQ5R866M	Signature of Authorized Individual <i>Geoffrey Heberlein</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.)

1. Introduction: A. Installed Garmin GNS-430 s/n 96305587 in left side of radio rack below PM-6000M and above VIR-351/VHF-251 in clear view of pilot.
B. Antenna mounted on top at station #95.
2. Description: A. Installed I.A.W. manufacturers instructions p/n 190-00140-02 Rev. C, dated 11-11-98, AC 43.13-1B Chap 4, 11 & 12, AC 43.13-2A Chap 2 & 3, AC 23.1309-1A, and AC 20-138 Chap 7 (VFR).
B. Supporting data on STC #SA00705WI.
C. Installed 5 amp C/B labeled GPS.
D. GPS does not interfere with any other avionics or instruments in A/C.
E. GNS-430 is directly connected to encoder, PM-6000M, and Digiflow, also connected to KI-525A through RS-008 relay system.
F. System ground checked good.
G. GPS is limited and placarded "GPS Not Approved For Navigation" pending successful completion of functional check at which time GPS will be placarded "GPS Not Approved For IFR".
H. Flight operation check was performed in accordance with manufacturer specifications and the functional flight evaluation requirements of AC 20-138, PAR 7c(1)(iv).

Flight check satisfactory:

Repair Station Certificate #: FQ5R866M

Date of Flight Check:

3. Control, operation information: N/A
4. Servicing information: N/A
5. Maintenance instructions: N/A
6. Trouble shooting information: N/A
7. Removal and replacement information: N/A
8. Diagrams: N/A
9. Special inspection requirements: N/A
10. Application of protective treatments: N/A
11. Data: N/A
12. List of special tools: N/A
13. Commuter category A/C: N/A
14. Recommended overhaul periods: N/A
15. Airworthiness Limitations Section: N/A
16. Revision: A letter will be submitted to the local FSDO with a copy of the revised FAA Form 337 and revised ICA.

END

PA-34-200T
3/2
N47815
3-10-00

☐ 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

For FAA Use Only

Office Identification

8917 **DPA-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. 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 PA34-200T
	Serial No. 34-7870004	Nationality and Registration Mark N47815
2. Owner	Name (As shown on registration certificate) Ed Gomboz	Address (As shown on registration certificate) 4510 Kirchoff Rd. Rolling Meadow, IL 60008

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 43.7.

MAR 28 2000
Date
Scott J. [Signature]
FAA Inspector, DPA-FSDO

3. For FAA Use Only

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

6. Conformity Statement

A. Agency's Name and Address	B. Kind of Agency	C. Certificate No.
AVIONICS PLACE 5257 Falcon Road Rockford, IL 61109-2917	<input type="checkbox"/> U.S. Certificated Mechanic	FQ5R866M Radio Limited-Instruments
	<input type="checkbox"/> Foreign Certificated Mechanic	
	<input checked="" type="checkbox"/> XXX 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-MAR-00	Signature of Authorized Individual <i>Jeffrey [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 Fit. 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 3-28-00		Certificate or Designation No. FQ5R866M	Signature of Authorized Individual <i>Jeffrey [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.)

1. Introduction: A. Previously installed Garmin GNS-430 s/n 96305587 located above VIR-351/VHF-251 and below PM-6000M in clear view of pilot.
- B. GPS antenna is mounted on top at station #95.
2. Description: A. Installed I.A.W. manufacturers instructions p/n 190-00140-02 Rev C, dated 11-11-98, AC 43.13-1B Chap 4, 11, & 12, AC 43.13-2A Chap 2 & 3, AC 23.1309-1A, and AC 20-138 PAR 8(c)(1)(iv) (IFR install).
- B. GPS is directly connected to encoder, PM-6000M, and Digiflow, also connected to KI-525A through RS-008 relay system.
- C. GPS does not interfere with other equipment, (electromagnetic compatibility), and other equipment in A/C does not interfere with GPS unit.
- D. GPS is connected to 5 amp C/B, and labeled GPS.
- E. Electrical load analysis was performed. GNS-430 does not produce excessive load on systems per A/C specifications.
- F. See supporting STC data #SA00705WI for GNS-430 initial approval.
- G. IFR flight test was performed in accordance with AC 20-138 PAR 8(c)(2)(IV) on 3-10-00 by Ed Gomboz "Pilot" and Anthony Polemarkis of Avionics Place. Details are on file W.O. #9079.
- H. This installation requires Airplane Flight Manual Supplement (AFMS) for PA34-200T with GNS-430 GPS Navigation Approved MAR 28 2000. Operation must be conducted in accordance with the provisions of this AFMS. AFMS and pilot's operating handbook has been placed in the aircraft and is readily available to the pilot.
3. Control, operation information: N/A
4. Servicing information: N/A
5. Maintenance instructions: N/A
6. Trouble shooting information: N/A
7. Removal and replacement information: N/A
8. Diagrams: N/A
9. Special inspection requirements: N/A
10. Application of protective treatments: N/A
11. Data: N/A
12. List of special tools: N/A
13. Commuter category A/C: N/A
14. Recommended overhaul periods: N/A
15. Airworthiness Limitations Section: N/A
16. Revision: A letter will be submitted to the local FSDO with a copy of the revised FAA Form 337 and revised ICA.

END

PA34-200T
s/n
N47815
3-10-00

☐ Additional Sheets Are Attached

JUL 23 1997



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 **PA-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. 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 PA-34
	Serial No. 34-7870004	Nationality and Registration Mark USA-N47815
2. Owner	Name (As shown on registration certificate) AUDIO VISUAL RENTALS BY WIZDUM LTD	Address (As shown on registration certificate) 3353 N. RIDGE AVE ARLINGTON HEIGHTS, ILL. 60004

3. For FAA Use Only

4. Unit Identification

5. Type

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

6. Conformity Statement

A. Agency's Name and Address PRIESTER AVIATION SERVICES, INC. 26E. PALITINE ROAD WHEELING, IL. 60090	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. PRIR248H
--	--	---------------------------------------

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 7/21/97	Signature of Authorized Individual
------------------------	--

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	Inspection Authorization	Other (Specify)
	FAA Designee	<input checked="" type="checkbox"/> Repair Station	Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 7/21/97		Certificate or Designation No. PRIR248H	Signature of Authorized Individual 	

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.)

REMOVED ORIGINAL MAIN WHEEL HUB CAPS ON BOTH MAIN WHEELS AND INSTALLED LOPRETI
SPEED MERCHANTS MAIN WHEEL HUB CAP MOD P#LSM-200-700-1 IAW APPROVED STC SA1224AT
DATED 12/10/96 AND USING ENCLOSED INSTRUCTION P# LSM-200-701 DATED 8/20/96 AND
REVISED 4/2/97. WEIGHT CHANGE NEGLEGABLE.-----END-----

☐ Additional Sheets Are Attached

JUN 12 1998

WJL



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

DPA-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. 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 PA34-200T
	Serial No. 34-7870004	Nationality and Registration Mark N47815
2. Owner	Name (As shown on registration certificate) Audio Visual Rentals by Wizdum LTD	Address (As shown on registration certificate) 3353 N. Ridge Ave Arlington Hts., Illinois 60004

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 Priester Aviation 26 E. Palatine Road, Hgr# 4 Pal-Waukee Municipal Airport Wheeling Illinois 60090-6391	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. CRS # PRIR248H Class 1, 2 & 3
--	--	--

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 06/10/98	Signature of Authorized Individual <i>Jack R. Skogel</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	<input checked="" type="checkbox"/> Repair Station	Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 06/10/98		Certificate or Designation No. PRIR248H	Signature of Authorized Individual <i>Jack R. Skogel</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.)

Piper PA-34-200T, s/n 34-7870004, N47815

- 1] Removed Piper Fuel Pressure Gauge p/n 6221 s/n 103761.
Installed Shadin Company Incorporated Fuel Flow Indicating System model Digiflo-L consisting of Digiflo Indicator/Computer p/n 910532P, s/n 3168 (TSO C44a) and fuel flow transducers p/n 680501X s/n 94008 and 97161.

- 2] The Digiflo Fuel Flow Indicating System has been installed i/a/w Shadin STC # SA641GL for the Indicator and STC # SE624GL for the fuel flow transducers. The Digiflo is not interfaced with any external Loran or GPS unit at this time but wiring has been installed, capped, and stowed for provisionary puposes. Weight & balance / equipment list revised to reflect this change. System checked per Shadin instructions for return to service and found to operate properly with no interference with/from other aircraft systems. Shadin Digiflo-L operating manual p/n OP91053B provided.

-----END-----

FILE: 47815-1.wpd

☐ Additional Sheets Are Attached



US Department
of Transportation
Federal Aviation
Administration

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

JUN 17 1998

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification

DPA-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. 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 PA34-200T
	Serial No. 34-7870004	Nationality and Registration Mark USA N47815
2. Owner	Name (As shown on registration certificate) AUDIO AND VISUAL	Address (As shown on registration certificate) 3553 NORTH RIDGE ARLINGTON HEIGHTS, ILLINOIS 60004

3. For FAA Use Only

4. Unit Identification

5. Type

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

6. Conformity Statement

A. Agency's Name and Address	B. Kind of Agency	C. Certificate No.
PRIESTER AVIATION SERVICES, INC. 26 EAST PALATINE ROAD WHEELING, ILLINOIS 60090	<input type="checkbox"/> U.S. Certificated Mechanic	PRIR248H
	<input type="checkbox"/> Foreign Certificated Mechanic	
	<input checked="" 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 6/10/98	Signature of Authorized Individual
-----------------	--

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	<input checked="" type="checkbox"/> Repair Station	Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 6/10/98		Certificate or Designation No. PRIR248H	Signature of Authorized Individual 	

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 SHADIN COMPANY, INC. DIGITAL FUEL FLOW INDICATING SYSTEM IAW STC
SA641GL DATED 8/9/82 AND AMENDED 6/6/86. INSTALLED INDICATOR P# 910532P
SERIAL # 3168 AND TWO TRANSDUCERS P#680501X SERIAL # 94008 ON LEFT ENGINE
AND SERIAL # 97161 ON THE RIGHT ENGINE. INSTALLED USING INSTRUCTIONS INCLUDED
WITH KIT, REPORT #4057 DATED 5/14/82, REVISED 5/22/86 AND FAA APPROVED 6/6/86.
WEIGHT AND BALANCE CHANGE NEGLEGIBLE. COPY OF REPORT #4057 TO BE USED AND FLIGHT
MANUAL SUPPLEMENT. _____
END

☐ Additional Sheets Are Attached

MAY 30 1997



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

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 PA34-200T
	Serial No. 34-7870004	Nationality and Registration Mark N47815
2. Owner	Name (As shown on registration certificate) AUDIO VISUAL RENTALS BY WIZDUM LTD	Address (As shown on registration certificate) 3353 N RIDGE AVE ARLINGTON HEIGHTS, IL 60004

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 AMCORP FLIGHT CENTER P.O. BOX 553 LANSING MUNICIPAL AIRPORT LANSING, IL 60438	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. CG-QR817C
--	--	--

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 5-6-97	Signature of Authorized Individual <i>Doug Berner</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 Fit. Standards Inspector	Manufacturer	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station	Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 5-6-97		Certificate or Designation No. CGQR817C	Signature of Authorized Individual <i>A. R. L. L. L.</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.)

- 1) INSTALLED FLAP GAP SEALS PER STC #SAC00162 AT AND
LOPRESTI MASTER DRAWING LIST, REPORT NO. 19 AND
INSTALLATION MANUAL DATED JANUARY 18, 1993.
- 2) SEE WEIGHT & BALANCE FORM DATED 5-6-97 THAT
REFLECTS CURRENT INFORMATION.

END

JUN 04 1996



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

DPA-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. 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 <i>PIPER</i>	Model <i>PA34-200T</i>
	Serial No. <i>34-7870004</i>	Nationality and Registration Mark <i>N 47815</i>
2. Owner	Name (As shown on registration certificate) <i>AUDIO VISUAL RENTALS BY WIZDOM LTD</i>	Address (As shown on registration certificate) <i>3353 N. RIDGE AVE. ARLINGTON HEIGHTS, IL 60004</i>

3. For FAA Use Only

4. Unit Identification

Unit	Make	Model	Serial No.	5. Type	
				Repair	Alteration
AIRFRAME	~~~~~ (As described in Item 1 above) ~~~~~				<i>XXX</i>
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

6. Conformity Statement

A. Agency's Name and Address <i>AIRCRAFT FLIGHT CENTER P.O. Box 553 LANSING, IL 60438</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>CGOR 817C</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>5/31/96</i>	Signature of Authorized Individual <i>Benny Bernson</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 Fit. 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 <i>5/31/96</i>		Certificate or Designation No. <i>CGOR 817C</i>	Signature of Authorized Individual <i>A. R. Anderson</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 VORTEX GENERATOR KIT PER STC # SA001095E
INSTALLATION MANUAL DATED JUNE 20, 1994. P.O.H.
SUPPLEMENT WAS SUPPLIED WITH AIRCRAFT RECORDS
SEE WEIGHT & BALANCE FORM DATED 5/31/96 THAT REFLECTS
CURRENT INFORMATION.

— END —

☐ Additional Sheets Are Attached

JUN 04 1996



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

DPA-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. 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 PA34-200T
	Serial No. 34-7870004	Nationality and Registration Mark N 47815
2. Owner	Name (As shown on registration certificate) AUDIO VISUAL RENTALS BY WIZDOM LTD	Address (As shown on registration certificate) 3353 N. RIDGE AVE ARLINGTON HEIGHTS, IL 60004

3. For FAA Use Only

4. Unit Identification

5. Type

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

6. Conformity Statement

A. Agency's Name and Address AIRCORP FLIGHT CENTER P.O. Box 553 LAKEVIEW, IL 60438	B. Kind of Agency <input type="checkbox"/> U.S. Certified Mechanic <input type="checkbox"/> Foreign Certified Mechanic <input checked="" type="checkbox"/> Certified Repair Station <input type="checkbox"/> Manufacturer	C. Certificate No. CGOR 817C
--	---	--

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 5/31/96	Signature of Authorized Individual <i>Danny Brown</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 <input checked="" type="checkbox"/>	Repair Station	Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 5/31/96		Certificate or Designation No. CGOR 817C	Signature of Authorized Individual <i>A. Kurlander</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 VORTEX GENERATOR KIT PER STC # SA00109SE
INSTALLATION MANUAL DATED JUNE 20, 1994. P.O.H.
SUPPLEMENT WAS SUPPLIED WITH AIRCRAFT RECORDS.
SEE WEIGHT & BALANCE FORM DATED 5/31/96 THAT REFLECTS
CURRENT INFORMATION.

— END —

☐ Additional Sheets Are Attached

MAY 19 1994

U.S. 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	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.				OFFICE IDENTIFICATION <i>EDP</i> DPA-ESDO	
1. AIRCRAFT	MAKE	PIPER		MODEL	PA34-200T
	SERIAL NO.	34-7870004		NATIONALITY AND REGISTRATION MARK	N47815
2. OWNER	NAME (As shown on registration certificate)			ADDRESS (As shown on registration certificate)	
	Audio & Visual Rentals By Wizdum			4510 Kirchoff Road Rolling Meadows, Il. 60008	
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	***** (As described in item 1 above) *****				X
PROPELLER	***** (As described in item 1 above) *****				
APPLIANCE	TYPE				
	MANUFACTURER				
6. CONFORMITY STATEMENT					
A. AGENCY'S NAME AND ADDRESS			B. KIND OF AGENCY		C. CERTIFICATE NO.
Robert W. Sommers for Service Aviation 1120 S. Milwaukee Ave., Hangar One Pal-Waukee Airport Wheeling, Il. 60090-6392			X U.S. CERTIFICATED MECHANIC FOREIGN CERTIFICATED MECHANIC CERTIFICATED REPAIR STATION MANUFACTURER		348566832
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 May 17, 1994			SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Robert W. Sommers</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 PLY. STANDARDS INSPECTOR	MANUFACTURER	X	INSPECTION AUTHORIZATION	OTHER (Specify)
	FAA DESIGNEE	REPAIR STATION		CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT	
DATE OF APPROVAL OR REJECTION May 17, 1994		CERTIFICATE OR DESIGNATION NO. 348566832		SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Robert W. Sommers</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.)

- Installation of R.M.D. Lighted Wing Tips -

Installed 2 ea. lighted wing tips, R.M.D. kit part # RMD-00150-PS, serial # 253 in accordance with installation instructions part # 5025-PS and Piper PA34-200T installation drawings, dated March 20, 1985, included in the installation instructions. Lighted wing tips approved for installation under S.T.C. SA1401NW. Wiring was accomplished using # 12 ga. wire included in kit and power was supplied through a 25 Amp circuit breaker also provided with kit. All work accomplished in accordance with practices set forth in AC 43.13-1A & 2A/3. The weight and balance has been revised to indicate an increase of 4 Lbs.

END

DESCRIPTION OF WORK ACCOMPLISHED			
<p>1. AIRCRAFT NATIONALITY AND REGISTRATION MARK</p> <p>2. DATE WORK COMPLETED</p> <p>3. NAME OF PERSON OR FIRM</p> <p>4. ADDRESS</p> <p>5. CITY</p> <p>6. STATE</p> <p>7. ZIP CODE</p> <p>8. SIGNATURE OF AUTHORIZED REPRESENTATIVE</p> <p>9. TITLE</p> <p>10. SIGNATURE OF PERSON OR FIRM</p> <p>11. TITLE</p> <p>12. SIGNATURE OF PERSON OR FIRM</p> <p>13. TITLE</p> <p>14. SIGNATURE OF PERSON OR FIRM</p> <p>15. TITLE</p> <p>16. SIGNATURE OF PERSON OR FIRM</p> <p>17. TITLE</p> <p>18. SIGNATURE OF PERSON OR FIRM</p> <p>19. TITLE</p> <p>20. SIGNATURE OF PERSON OR FIRM</p> <p>21. TITLE</p> <p>22. SIGNATURE OF PERSON OR FIRM</p> <p>23. TITLE</p> <p>24. SIGNATURE OF PERSON OR FIRM</p> <p>25. TITLE</p> <p>26. SIGNATURE OF PERSON OR FIRM</p> <p>27. TITLE</p> <p>28. SIGNATURE OF PERSON OR FIRM</p> <p>29. TITLE</p> <p>30. SIGNATURE OF PERSON OR FIRM</p> <p>31. TITLE</p> <p>32. SIGNATURE OF PERSON OR FIRM</p> <p>33. TITLE</p> <p>34. SIGNATURE OF PERSON OR FIRM</p> <p>35. TITLE</p> <p>36. SIGNATURE OF PERSON OR FIRM</p> <p>37. TITLE</p> <p>38. SIGNATURE OF PERSON OR FIRM</p> <p>39. TITLE</p> <p>40. SIGNATURE OF PERSON OR FIRM</p> <p>41. TITLE</p> <p>42. SIGNATURE OF PERSON OR FIRM</p> <p>43. TITLE</p> <p>44. SIGNATURE OF PERSON OR FIRM</p> <p>45. TITLE</p> <p>46. SIGNATURE OF PERSON OR FIRM</p> <p>47. TITLE</p> <p>48. SIGNATURE OF PERSON OR FIRM</p> <p>49. TITLE</p> <p>50. SIGNATURE OF PERSON OR FIRM</p> <p>51. TITLE</p> <p>52. SIGNATURE OF PERSON OR FIRM</p> <p>53. TITLE</p> <p>54. SIGNATURE OF PERSON OR FIRM</p> <p>55. TITLE</p> <p>56. SIGNATURE OF PERSON OR FIRM</p> <p>57. TITLE</p> <p>58. SIGNATURE OF PERSON OR FIRM</p> <p>59. TITLE</p> <p>60. SIGNATURE OF PERSON OR FIRM</p> <p>61. TITLE</p> <p>62. SIGNATURE OF PERSON OR FIRM</p> <p>63. TITLE</p> <p>64. SIGNATURE OF PERSON OR FIRM</p> <p>65. TITLE</p> <p>66. SIGNATURE OF PERSON OR FIRM</p> <p>67. TITLE</p> <p>68. SIGNATURE OF PERSON OR FIRM</p> <p>69. TITLE</p> <p>70. SIGNATURE OF PERSON OR FIRM</p> <p>71. TITLE</p> <p>72. SIGNATURE OF PERSON OR FIRM</p> <p>73. TITLE</p> <p>74. SIGNATURE OF PERSON OR FIRM</p> <p>75. TITLE</p> <p>76. SIGNATURE OF PERSON OR FIRM</p> <p>77. TITLE</p> <p>78. SIGNATURE OF PERSON OR FIRM</p> <p>79. TITLE</p> <p>80. SIGNATURE OF PERSON OR FIRM</p> <p>81. TITLE</p> <p>82. SIGNATURE OF PERSON OR FIRM</p> <p>83. TITLE</p> <p>84. SIGNATURE OF PERSON OR FIRM</p> <p>85. TITLE</p> <p>86. SIGNATURE OF PERSON OR FIRM</p> <p>87. TITLE</p> <p>88. SIGNATURE OF PERSON OR FIRM</p> <p>89. TITLE</p> <p>90. SIGNATURE OF PERSON OR FIRM</p> <p>91. TITLE</p> <p>92. SIGNATURE OF PERSON OR FIRM</p> <p>93. TITLE</p> <p>94. SIGNATURE OF PERSON OR FIRM</p> <p>95. TITLE</p> <p>96. SIGNATURE OF PERSON OR FIRM</p> <p>97. TITLE</p> <p>98. SIGNATURE OF PERSON OR FIRM</p> <p>99. TITLE</p> <p>100. SIGNATURE OF PERSON OR FIRM</p>			
<p>1. AIRCRAFT NATIONALITY AND REGISTRATION MARK</p> <p>2. DATE WORK COMPLETED</p> <p>3. NAME OF PERSON OR FIRM</p> <p>4. ADDRESS</p> <p>5. CITY</p> <p>6. STATE</p> <p>7. ZIP CODE</p> <p>8. SIGNATURE OF AUTHORIZED REPRESENTATIVE</p> <p>9. TITLE</p> <p>10. SIGNATURE OF PERSON OR FIRM</p> <p>11. TITLE</p> <p>12. SIGNATURE OF PERSON OR FIRM</p> <p>13. TITLE</p> <p>14. SIGNATURE OF PERSON OR FIRM</p> <p>15. TITLE</p> <p>16. SIGNATURE OF PERSON OR FIRM</p> <p>17. TITLE</p> <p>18. SIGNATURE OF PERSON OR FIRM</p> <p>19. TITLE</p> <p>20. SIGNATURE OF PERSON OR FIRM</p> <p>21. TITLE</p> <p>22. SIGNATURE OF PERSON OR FIRM</p> <p>23. TITLE</p> <p>24. SIGNATURE OF PERSON OR FIRM</p> <p>25. TITLE</p> <p>26. SIGNATURE OF PERSON OR FIRM</p> <p>27. TITLE</p> <p>28. SIGNATURE OF PERSON OR FIRM</p> <p>29. TITLE</p> <p>30. SIGNATURE OF PERSON OR FIRM</p> <p>31. TITLE</p> <p>32. SIGNATURE OF PERSON OR FIRM</p> <p>33. TITLE</p> <p>34. SIGNATURE OF PERSON OR FIRM</p> <p>35. TITLE</p> <p>36. SIGNATURE OF PERSON OR FIRM</p> <p>37. TITLE</p> <p>38. SIGNATURE OF PERSON OR FIRM</p> <p>39. TITLE</p> <p>40. SIGNATURE OF PERSON OR FIRM</p> <p>41. TITLE</p> <p>42. SIGNATURE OF PERSON OR FIRM</p> <p>43. TITLE</p> <p>44. SIGNATURE OF PERSON OR FIRM</p> <p>45. TITLE</p> <p>46. SIGNATURE OF PERSON OR FIRM</p> <p>47. TITLE</p> <p>48. SIGNATURE OF PERSON OR FIRM</p> <p>49. TITLE</p> <p>50. SIGNATURE OF PERSON OR FIRM</p> <p>51. TITLE</p> <p>52. SIGNATURE OF PERSON OR FIRM</p> <p>53. TITLE</p> <p>54. SIGNATURE OF PERSON OR FIRM</p> <p>55. TITLE</p> <p>56. SIGNATURE OF PERSON OR FIRM</p> <p>57. TITLE</p> <p>58. SIGNATURE OF PERSON OR FIRM</p> <p>59. TITLE</p> <p>60. SIGNATURE OF PERSON OR FIRM</p> <p>61. TITLE</p> <p>62. SIGNATURE OF PERSON OR FIRM</p> <p>63. TITLE</p> <p>64. SIGNATURE OF PERSON OR FIRM</p> <p>65. TITLE</p> <p>66. SIGNATURE OF PERSON OR FIRM</p> <p>67. TITLE</p> <p>68. SIGNATURE OF PERSON OR FIRM</p> <p>69. TITLE</p> <p>70. SIGNATURE OF PERSON OR FIRM</p> <p>71. TITLE</p> <p>72. SIGNATURE OF PERSON OR FIRM</p> <p>73. TITLE</p> <p>74. SIGNATURE OF PERSON OR FIRM</p> <p>75. TITLE</p> <p>76. SIGNATURE OF PERSON OR FIRM</p> <p>77. TITLE</p> <p>78. SIGNATURE OF PERSON OR FIRM</p> <p>79. TITLE</p> <p>80. SIGNATURE OF PERSON OR FIRM</p> <p>81. TITLE</p> <p>82. SIGNATURE OF PERSON OR FIRM</p> <p>83. TITLE</p> <p>84. SIGNATURE OF PERSON OR FIRM</p> <p>85. TITLE</p> <p>86. SIGNATURE OF PERSON OR FIRM</p> <p>87. TITLE</p> <p>88. SIGNATURE OF PERSON OR FIRM</p> <p>89. TITLE</p> <p>90. SIGNATURE OF PERSON OR FIRM</p> <p>91. TITLE</p> <p>92. SIGNATURE OF PERSON OR FIRM</p> <p>93. TITLE</p> <p>94. SIGNATURE OF PERSON OR FIRM</p> <p>95. TITLE</p> <p>96. SIGNATURE OF PERSON OR FIRM</p> <p>97. TITLE</p> <p>98. SIGNATURE OF PERSON OR FIRM</p> <p>99. TITLE</p> <p>100. SIGNATURE OF PERSON OR FIRM</p>			

MAY 19 1994

U.S. 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	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 for instructions and disposition of this form.				OFFICE IDENTIFICATION DPA-FSDO	
1. AIRCRAFT	MAKE	PIPER	MODEL	PA34-200T	
	SERIAL NO.	34-7870004	NATIONALITY AND REGISTRATION MARK	N47815	
2. OWNER	NAME (As shown on registration certificate)		ADDRESS (As shown on registration certificate)		
	Audio & Visual Rentals By Wizdum		4510 Kirchoff Road Rolling Meadows, IL 60008		
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.	
Robert W. Sommers for Service Aviation 1120 S. Milwaukee Ave., Hangar One Pal-Waukee Airport Wheeling, IL 60090-6392		<input checked="" type="checkbox"/> U.S. CERTIFICATED MECHANIC <input type="checkbox"/> FOREIGN CERTIFICATED MECHANIC <input type="checkbox"/> CERTIFICATED REPAIR STATION <input type="checkbox"/> MANUFACTURER		348566832	
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			
May 17, 1994		Robert W. Sommers			
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 RT. STANDARDS INSPECTOR	MANUFACTURER	INSPECTION AUTHORIZATION		OTHER (Specify)
	FAA DESIGNEE	REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT		
DATE OF APPROVAL OR REJECTION		CERTIFICATE OR DESIGNATION NO.	SIGNATURE OF AUTHORIZED INDIVIDUAL		
May 17, 1994		348566832	Robert W. Sommers		

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.)

— Installation of Pulselite System —

Installed Precise Pulselite Model # 1210/2405-2A in accordance with installation instructions # PPRI-3000, Rev. 4, dated May 5, 1993. Pulselite control power supplied through 3 Amp circuit breaker using # 20 ga. wire, and was wired in accordance with Precise Flight, Inc. Drawing No. 000P055M, dated March 31, 1993. System approved for installation under S.T.C SA4005NM. All work done in accordance with practices set forth in AC 43.13-1A & 2A/3. Revised weight and balance

END

[illegible]

MAY 19 1994

U.S. 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	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9 for instructions and disposition of this form.				OFFICE IDENTIFICATION DPA-FSDO	
1. AIRCRAFT	MAKE	PIPER	MODEL	PA34-200T	
	SERIAL NO.	34-7870004	NATIONALITY AND REGISTRATION MARK	N47815	
2. OWNER	NAME (As shown on registration certificate)		ADDRESS (As shown on registration certificate)		
	Audio & Visual Rentals By Wizdum		4510 Kirchoff Road Rolling Meadows, IL 60008		
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.
Robert W. Sommers for Service Aviation 1120 S. Milwaukee Ave., Hangar One Pal-Waukee Airport Wheeling, IL 60090-6392			<input checked="" type="checkbox"/> U.S. CERTIFICATED MECHANIC <input type="checkbox"/> FOREIGN CERTIFICATED MECHANIC <input type="checkbox"/> CERTIFICATED REPAIR STATION <input type="checkbox"/> MANUFACTURER		348566832
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			
May 17, 1994		Robert W. Sommers			
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		CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT	
DATE OF APPROVAL OR REJECTION		CERTIFICATE OR DESIGNATION NO.		SIGNATURE OF AUTHORIZED INDIVIDUAL	
May 17, 1994		348566832		Robert W. Sommers	

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.)

— Installation of Inflatable Door Seal —

Installed Bob Fields Aerocessories inflatable door seal in accordance with installation instructions "Report BFA310, Rev. #2, dated Feb. 26, 1993. Power for compressor supplied through a 5 Amp circuit breaker and wired in accordance with installation instructions. Door seal approved for installation under S.T.C. SA4234WE. All work done in accordance with practices set forth in AC43.13-1A & 2A/3. Revised weight and balance.

END

C. CERTIFICATE NO.		D. KIND OF AGENCY		E. AGENCY NAME AND ADDRESS	
38000000		ADDITIONAL CERTIFICATES		1700 1st St. N. Suite 100 Minneapolis, MN 55412	
SIGNATURE OF AUTHORIZED REPRESENTATIVE		APPROVAL FOR RETURN TO SERVICE			
[Signature]		[Signature]			
DATE		DATE			
11/18/94		11/18/94			
FAA AC 72-4906		U.S. GOVERNMENT PRINTING OFFICE: 1986-659-121/40260			

MAY 19 1994

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

DEA-ESDO

INSTRUCTIONS: Print or type all entries for instructions and disposition of this form.

19, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof)

1. AIRCRAFT	MAKE	PIPER	MODEL	PA34-200T
	SERIAL NO.	34-7870004	NATIONALITY AND REGISTRATION MARK	N47815
2. OWNER	NAME (As shown on registration certificate)		ADDRESS (As shown on registration certificate)	
	Audio & Visual Rentals By		4510 Kirchoff Road Rolling Meadows, IL 60008	

3. FOR FAA USE ONLY

4. UNIT IDENTIFICATION

UNIT	MAKE	MODEL	SERIAL NO.	5. TYPE	
				REPAIR	ALTERATION
AIRFRAME (as described in item 1 above)				X
POWERPLANT					
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				

A. AGENCY'S NAME AND ADDRESS

Robert W. Sommers for Service Aviation
 1120 S. Milwaukee Ave., Hangar One
 Pal-Waukee Airport
 Wheeling, IL 60090-6392

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.

32

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

May 17, 1994

SIGNATURE OF AUTHORIZED INDIVIDUAL

Robert W. Sommers

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	<input checked="" type="checkbox"/> INSPECTION AUTHORIZATION	OTHER (Specify)
	FAA DESIGNER	REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT	

DATE OF APPROVAL OR REJECTION

May 17, 1994

CERTIFICATE OR DESIGNATION NO.
 348566832

SIGNATURE OF AUTHORIZED INDIVIDUAL

Robert W. Sommers

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.

3. (If more space is required, attach additional sheets.
(on work and date work completed.)

Installed 2 ea. light wing tips, R.M.D. kit part # RMD-00150-PS, serial # 253 in accordance with installation instructions part # 5025-PS and Pict PA34-200T installation drawings, dated March 20, 1985, included in the installation instructions. Lighted wing tips approved for installation under S.T.C. SA1401NW. Wiring was accomplished using # 12 ga. wire included in kit and power was supplied through a 25 Amp circuit breaker also provided with kit. All work accomplished in accordance with practices set forth in AC 43.13-1A & 2A/3. The weight and balance has been revised to indicate an increase of 4 Lbs.

END

C FAA ACT 77-1705

MAY 19 1994

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				Form Approved Budget Bureau No. 04-RQ60.1	
MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)				FOR FAA USE ONLY	
INSTRUCTIONS: Print or type all entries. See Part 43 of FAR and Appendix B, and AC 43-9-1 for subsequent revision, thereof.				OFFICE IDENTIFICATION DPA-FSDO	
1. AIRCRAFT	MAKE	PIPER	MODEL	PA34-200T	
	SERIAL NO.	34-7870004	NATIONALITY AND REGISTRATION MARK	N47815	
2. OWNER	NAME (As shown on registration certificate) Audio & Visual Rentals By Wizard		ADDRESS (As shown on registration certificate) 4510 Kirchhoff Road Rolling Meadows, Il. 60008		
	3. FOR FAA USE ONLY				
4. UNIT IDENTIFICATION					
UNIT	MODEL			SERIAL NO.	
AIRFRAME	***** (describe in item 1 above) *****			REPAIR	ALTERATION
POWERPLANT					
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				
6. CONFORMITY STATEMENT					
A. AGENCY'S NAME AND ADDRESS			B. KIND OF CHANGE		C. CERTIFICATE NO.
Robert W. Sommers for Service Aviation 1120 S. Milwaukee Ave., Hangar One Pal-Waukee Airport Wheeling, Il. 60090-6392			<input checked="" type="checkbox"/> U.S. CERTIFICATED MAINTENANCE <input type="checkbox"/> FOREIGN CERTIFICATED MAINTENANCE <input type="checkbox"/> CERTIFICATED REPAIR STATION <input type="checkbox"/> MANUFACTURER		32
D. I certify that the repair and/or alteration made to the unit(s) identified in item 1 and attachments hereto have been made in accordance with the requirements of Part 43 and that the information furnished herein is true and correct to the best of my knowledge and described on the reverse or U.S. Federal Aviation Regulations					
DATE May 17, 1994		SIGNATURE OF AUTHORIZED Robert W. Sommers			
7. APPROVAL FOR RETURN TO SERVICE					
Pursuant to the authority given persons specified below, the unit identified in item 1 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 AUTHORIZED	CITY (state)	
	FAA DESIGNER	REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT		
DATE OF APPROVAL OR REJECTION May 17, 1994		CERTIFICATE OR DESIGNATION NO. 348566832		SIGNATURE OF AUTHORIZED INDIVIDUAL Robert W. Sommers	

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.)

- Installation of Pulselite System -

Installed Precise Pulselite Model # 1210/2405-2A in accordance with installation instructions # PPRI-3000, Rev. 4, dated May 5, 1993. Pulselite control power supplied through 3 Amp circuit breaker using # 20 ga. wire, and was wired in accordance with Precise Flight, Inc. Drawing No. 000P055M, dated March 31, 1993. System approved for installation under S.T.C SA4005NM. All work done in accordance with practice set forth in AC 43.13-1A & 2A/3. Revised weight and balance

END

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MAY 19 1994

U.S. 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	
INSTRUCTIONS: Print or type all entries or instructions and disposition of this form. See FAR 33.9, FAR 43 Appendix II, and AC 43.9-1 for subsequent revision (thereof).				OFFICE IDENTIFICATION DPA-FSDO	
1. AIRCRAFT	MAKE PIPER	MODEL PA34-200T	NATIONALITY AND REGISTRATION MARK N47815		
2. OWNER	NAME (As shown on registration certificate) Audio & Visual Rentals By Wizdum		ADDRESS (As shown on registration certificate) 4510 Kirchhoff Road Rolling Meadows, IL 60008		
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.	
Port W. Sommer For Service Aviation 1120 S. Milwaukee Pal-Waukee A.rip Wheeling, IL 60090-6392		U.S. CERTIFICATED MECHANIC FOREIGN CERTIFICATED MECHANIC CERTIFICATED REPAIR STATION MANUFACTURER		34856832	
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 May 17, 1994		SIGNATURE OF AUTHORIZED INDIVIDUAL Robert W. Sommer			
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"/> DEFECTED					
BY	FAA FLT. STANDARD INSPECTOR	MANUFACTURER	X	INSPECTION AUTHORIZATION	OTHER (Specify)
	FAA DESIGNER	REPAIR STATION		CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT	
DATE OF APPROVAL OR REJECTION May 17, 1994		CERTIFICATE OR DESIGNATION NO. 348566832		SIGNATURE OF AUTHORIZED INDIVIDUAL Robert W. Sommer	

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.)

— Installation of Inflatable Door Seal —

Installed Bob Fields Aerocessories Inflatable door seal in accordance with installation instructions "Report BFA310, Rev. #2, dated Feb. 26, 1993. Power for compressor supplied through a 5 Amp circuit breaker and wired in accordance with installation instructions. Door seal approved for installation under S.T.C. SA4234WE. All work done in accordance with practices set forth in AC43.13-1A & 2A/3. Revised weight and balance.

END

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ADDITIONAL SHEETS ARE ATTACHED

JUN 22 1993

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 DPA-ESDO	
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 34-200T</i>		
	SERIAL NO. <i>34-7870004</i>		NATIONALITY AND REGISTRATION MARK <i>N 47815</i>		
2. OWNER	NAME (As shown on registration certificate) <i>Edward Gamboz</i>		ADDRESS (As shown on registration certificate) <i>4510 Kinchoff Rd. Rolling Meadows, ILL. 60008</i>		
	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.	
<i>Roger R. Shadick Pride Aircraft Inc. 1651 Gramman Dr. Rockford, ILL. 61109</i>		<input checked="" type="checkbox"/> U.S. CERTIFICATED MECHANIC <input type="checkbox"/> FOREIGN CERTIFICATED MECHANIC <input type="checkbox"/> CERTIFICATED REPAIR STATION <input type="checkbox"/> MANUFACTURER		<i>393665855</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>6-18-93</i>		SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Roger R. Shadick</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		OTHER (Specify)
	FAA DESIGNEE	REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT		
DATE OF APPROVAL OR REJECTION <i>6-18-93</i>		CERTIFICATE OR DESIGNATION NO. <i>393665855</i>		SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Roger R. Shadick</i>	

JUN 22 1993

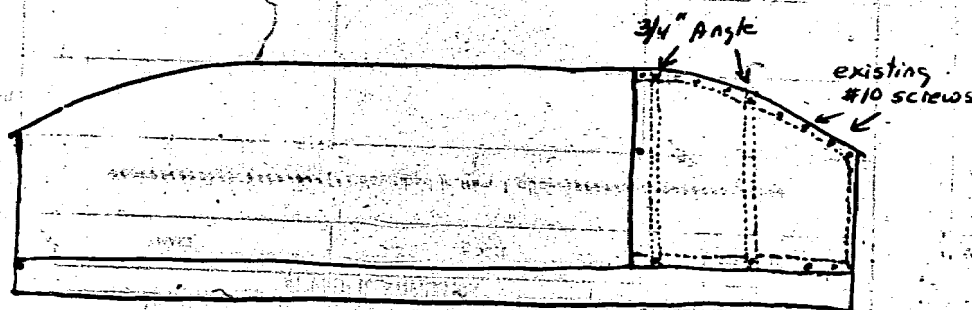
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				Form Approved Budget Bureau No. 04-R060.1	
MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)				FOR FAA USE ONLY	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.				OFFICE IDENTIFICATION DBA-ESDO	
1. AIRCRAFT		MAKE <i>Piper</i>	MODEL <i>PA34-200T</i>		
		SERIAL NO. <i>34-7870004</i>	NATIONALITY AND REGISTRATION MARK <i>N42E15</i>		
2. OWNER		NAME (As shown on registration certificate) <i>Edward G. ...</i>			
		ADDRESS (As shown on registration certificate) <i>4510 Kinchiff Rd. Rolling Meadows, Ill. 60008</i>			
3. FOR FAA USE ONLY					
4. UNIT IDENTIFICATION					
UNIT	MAKE	MODEL	SERIAL NO.	REPAIR	ALTERATION
AIRFRAME	As described in item 4 above				X
POWERPLANT					
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				
5. TYPE					
6. CONFORMITY STATEMENT					
A. NAME AND ADDRESS		B. KIND OF AGENCY		C. CERTIFICATE NO.	
<i>Piper Aircraft Co.</i>		<input checked="" type="checkbox"/> U.S. CERTIFICATED MECHANIC		<i>393665855</i>	
		<input type="checkbox"/> FOREIGN CERTIFICATED MECHANIC			
		<input type="checkbox"/> CERTIFICATED REPAIR STATION			
		<input type="checkbox"/> MANUFACTURER			
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>6-18-93</i>		SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Ray R. Shaduck</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 PT. STANDARDS INSPECTOR	MANUFACTURER	<input checked="" type="checkbox"/> INSPECTION AUTHORIZATION	OWNER (Specify)	
	FAA DESIGNEE	REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT		
DATE OF APPROVAL OR REJECTION <i>6-18-93</i>		CERTIFICATE OR DESIGNATION NO. <i>393665855</i>		SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Ray R. Shaduck</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.)


Removed glovebox and associated hardware. Made a new instrument panel out of original material and thickness. Panel was attached using existing hardware and attach points. A radio rack was installed with $3/4"$ aluminum angle. All work performed in accordance with AC 43.13-1A + 2.



Left hand angle attached with #10 screws - lock nuts.
 Right hand angle attached with #8 screws - locknuts.
 Front panel made from .040 2024 T3 - same as original.

☒ ADDITIONAL SHEETS ARE ATTACHED

APR 27 1992

 MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)				Form Approved OMB No. 2120-0020	
				For FAA Use Only Office Identification SBN ESDQ	
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 PA-34-200T		
	Serial No. 34-7870004		Nationality and Registration Mark N47815		
2. Owner	Name (As shown on registration certificate) GUMBOZ, EDWARD J.		Address (As shown on registration certificate) 4510 KIRCHOFF ROAD ROLLING MEADOWS, IL 60008		
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.	
GREAT NORTHERN AIRCRAFT, INC. 1705 E. MAIN STREET GRIFFITH, IN 46319		<input checked="" type="checkbox"/> U.S. Certificated Mechanic		A-P20337151A	
		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 4-20-92		Signature of Authorized Individual R.J. MELDE <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 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 4-20-92		Certificate or Designation No. A-P20337151A	Signature of Authorized Individual R.J. MELDE <i>[Signature]</i>		

SEMI 73 REVA

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.)

Date: 4-20-92 Registration #N47815 SN 34-7870004

Replaced the #1 aluminum cable assemblies between the battery and ground, battery to master solenoid, master solenoid to starter solenoid(s), starter solenoid(s) to starter(s) and engine to airframe return ground(s) as required by Piper Service Bulletin 836A. These cables were replaced with #1 gauge copper cable assemblies which were manufactured by BOGERT AVIATION for this aircraft in accordance with STC # SA3531NM, Drawing # (2-1) and Instructions (2-1 REVA). All cable assemblies are FAA/FMA approved.

END

☐ Additional Sheets Are Attached

MAY 10 1991 JUN 19 1991

U.S. 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 DPA-FSDQ <i>AN</i>	
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 PA34-200T		
	SERIAL NO. 34-7870004		NATIONALITY AND REGISTRATION MARK N47815		
2. OWNER	NAME (As shown on registration certificate) GOMBOZ, EDWARD J.		ADDRESS (As shown on registration certificate) 1809 NORTH MITCHELL STREET ARLINGTON HTS., IL 60004		
	3. FOR FAA USE ONLY The data identified herein complies with applicable airworthiness requirements and is approved only for the above described aircraft subject to conformity inspection by a person authorized in FAR 43.7. JUN 13 1991 <i>William L. Satter</i> Date FAA INSPECTOR AGL-FSDQ-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.	
PRIESTER AVIATION SERVICE PAL-WAUKEE MUNICIPAL AIRPORT WHEELING, ILLINOIS 60090		<input type="checkbox"/> U.S. CERTIFICATED MECHANIC <input type="checkbox"/> FOREIGN CERTIFICATED MECHANIC <input checked="" type="checkbox"/> CERTIFICATED REPAIR STATION <input type="checkbox"/> MANUFACTURER		PRIR248H CLASS 1, 2 & 3	
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 MAY 9, 1991		SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Jack R. Skogel</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		
	FAA DESIGNEE <input checked="" type="checkbox"/>	REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT		
DATE OF APPROVAL OR REJECTION June 18, 1991		CERTIFICATE OR DESIGNATION NO. PRIR248H	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Jack R. Skogel</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 BENDIX/KING KLN-88 LORAN, KA-83 LORAN ANTENNA AND CLINTON RELAY RSU-21.

SYSTEM INSTALLED USING MANUFACTURERS MOUNTING TRAY. WIRING FABRICATED BY PRIR248H. OVERALL INSTALLATION ACCOMPLISHED IN ACCORDANCE WITH BENDIX/KING INSTALLATION MANUAL, AC 43.13-1A CHAPTERS 11, 13 AND 15, AC 43.13-2A CHAPTERS 2 AND 3 AND AC 20-121A FOR IFR INSTALLATIONS.

THE KLN-88 LORAN IS INTERCONNECTED TO THE #2 CDI MODEL IND-350 AND CENTURY AUTOPILOT THROUGH A CLINTON RSU-21 RELAY SWITCHING ASSEMBLY. A PANEL MOUNTED PUSH BUTTON ANNUNCIATOR/SWITCH CONTROLS THE RSU-21 TO PROVIDE EITHER VOR/LOC OR LORAN DEVIATION INFORMATION TO THE CDI AND AUTOPILOT. IN THE UNACTUATED POSITION, THE ANNUNCIATOR/SWITCH "NAV" LAMP IS LIT AND VOR/LOC INFORMATION IS PROVIDED TO THE CDI AND AUTOPILOT. IN THE ACTUATED POSITION THE ANNUNCIATOR/SWITCH "LORAN" LAMP IS LIT AND LORAN STEERING INFORMATION IS PROVIDED TO THE CDI AND AUTOPILOT. WITH THE ANNUNCIATOR/SWITCH SELECTED TO "LORAN" AND AN ILS FREQUENCY CHanneled ON THE #2 NAV, THE CDI WILL DISPLAY LOC INFORMATION, THE "LORAN" LAMP WILL EXTINGUISH AND "NAV" WILL LIGHT AND LOC STEERING INFORMATION WILL BE PROVIDED TO THE AUTOPILOT.

A BENDIX/KING KLN-88 PILOTS GUIDE P/N 006-08458-0000 REV. ORS01 HAS BEEN PROVIDED TO THE AIRCRAFT OWNER/OPERATOR AND MUST BE CARRIED ON BOARD AND AVAILABLE WHEN NAVIGATING UNDER IFR WITH THE KLN-88. AN AIRPLANE FLIGHT MANUAL SUPPLEMENT HAS BEEN PROVIDED PER AC 20-121A APPENDIX 1, SECTION 2, PARAGRAPH C. KLN-88 SYSTEM LIMITED TO VFR OPERATION UNTIL FAA APPROVAL OF FLIGHT MANUAL SUPPLEMENT AT WHICH TIME THE SYSTEM MAY THEN BE OPERATED UNDER IFR. FLIGHT MANUAL SUPPLEMENT DATED JUN 13 1991 MUST BE CARRIED ON BOARD AND BE AVAILABLE WHEN NAVIGATING UNDER IFR WITH THE KLN-88.

AIRCRAFT EQUIPMENT LIST/WEIGHT & BALANCE HAVE BEEN REVISED TO REFLECT THIS INSTALLATION. ELECTRICAL LOAD CHECK DOES NOT EXCEED 80% OF CAPABILITY.

THE SYSTEM HAS BEEN GROUND AND FLIGHT CHECKED BY PRIR248H AND FOUND TO FUNCTION PROPERLY AND NOT TO INTERFERE WITH OTHER INSTALLED EQUIPMENT. THE KLN-88 SYSTEM MEETS THE MINIMUM ACCURACY REQUIREMENTS AS STATED IN AC 20-121A, SECTION 9 FOR TERMINAL AND ENROUTE OPERATIONS. FLIGHT TEST RESULTS ARE ON FILE AT THIS REPAIR STATION.

TEST PILOT SIGNATURE

DATE

PLACARD INSTALLED STATING "LORAN C NOT APPROVED FOR APPROACH".

END

☐ ADDITIONAL SHEETS ARE ATTACHED

U.S. 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 DPA-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-34-200T	
	SERIAL NO.	34-7870004		NATIONALITY AND REGISTRATION MARK	N 47815	
2. OWNER	NAME (As shown on registration certificate)			ADDRESS (As shown on registration certificate)		
	Edward J. Gomboz			1809 North Mitchell Street Arlington Heights, IL 60004		
3. FOR FAA USE ONLY						
4. UNIT IDENTIFICATION						
UNIT	MAKE	MODEL	SERIAL NO.	5. TYPE		
				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.	
Joliet Avionics DuPage Airport West Chicago, IL 60185			U.S. CERTIFICATED MECHANIC		Rating: Radio Class 1, 2, 3 NF2R029L	
			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			SIGNATURE OF AUTHORIZED INDIVIDUAL			
28 February 1990			Ernest F. Evinger <i>Ernest F. Evinger</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	REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT			
DATE OF APPROVAL OR REJECTION		CERTIFICATE OR DESIGNATION NO.		SIGNATURE OF AUTHORIZED INDIVIDUAL		
28 February 1990		NF2R029L		Ernest F. Evinger <i>Ernest F. Evinger</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 3M Ryan WX-1000 Stormscope Weather Mapping System in accordance with Installation Manual 78-8060-5820-8, dated May 1988, rev. 8/23/88. All work was also done in accordance with AC43.13-1A Chapter 11 and AC43.13-2A Chapter 2 & 3.

Weight and Balance was computed and entered in appropriate aircraft paperwork.

END

☐ ADDITIONAL SHEETS ARE ATTACHED

The information normally furnished in Section VIII is on file as part of the historical inspection record at Piper Aircraft Corporation.

Current Airworthiness Certificate issued I/A/W FAR 21.183(a) PER 21.273 Form Approved Budget Bureau No. 04-R0058

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION APPLICATION FOR AIRWORTHINESS CERTIFICATE		INSTRUCTIONS—Print or type. Do not write in shaded areas; these are for FAA use only. Submit original only to an authorized FAA Representative. If additional space is required, use an attachment. For special flight permits complete Sections II and VI or VII as applicable.	
I. AIRCRAFT DESCRIPTION	1. REGISTRATION MARK N47815	2. AIRCRAFT BUILDER'S NAME (make) Piper	3. AIRCRAFT MODEL DESIGNATION PA34-200T
	5. AIRCRAFT SERIAL NO. 34-7870004	6. ENGINE BUILDER'S NAME (make) Continental	7. ENGINE MODEL DESIGNATION TSIO-360-E/LTSIO-360-E
	8. NUMBER OF ENGINES 2	9. PROPELLER BUILDER'S NAME (make) Hartzell	10. PROPELLER MODEL DESIGNATION BHC-C2YF-2C1KUF
	11. AIRCRAFT IS <input checked="" type="checkbox"/> EXPORT <input type="checkbox"/> IMPORT		
APPLICATION IS HEREBY MADE FOR: (Check applicable items)			
A <input checked="" type="checkbox"/> STANDARD AIRWORTHINESS CERT. (Indicate category)			
B <input type="checkbox"/> SPECIAL AIRWORTHINESS CERTIFICATE (Check appropriate items)			
2. LIMITED			
5. PROVISIONAL (Indicate class)			
3. RESTRICTED (Indicate operation(s) to be conducted)			
4. EXPERIMENTAL (Indicate operation(s) to be conducted)			
8. SPECIAL FLIGHT PERMIT (Indicate operation to be conducted then complete Section VI or VII as applicable on reverse side)			
C <input checked="" type="checkbox"/> MULTIPLE AIRWORTHINESS CERTIFICATE (Check appropriate Restricted Operation and Standard or Limited as applicable above)			
A. REGISTERED OWNER (As shown on Certificate of Aircraft Registration)			
NAME Piper Aircraft Corporation			
IF DEALER, CHECK HERE <input checked="" type="checkbox"/>			
B. AIRCRAFT CERTIFICATION BASIS (Check applicable blocks and complete items as indicated)			
AIRCRAFT SPECIFICATION OR TYPE CERTIFICATION DATA SHEET (Give No. and Revision No.)			
A750 Rev. 5			
AIRCRAFT LISTING (Give page No(s).)			
SUPPLEMENTAL TYPE CERTIFICATE (List number of each STC incorporated)			
C. AIRCRAFT OPERATION AND MAINTENANCE RECORDS			
X CHECK IF RECORDS IN COMPLIANCE WITH FAR 91.173			
TOTAL AIRFRAME HOURS—416			
EXPERIMENTAL ONLY—Enter hours flown since last certificate issued or renewed			
D. CERTIFICATION—I hereby certify that I am the owner (or his agent) of the aircraft described above, that the aircraft is registered with the Federal Aviation Administration in accordance with Section 501 of the Federal Aviation Act of 1958, and applicable Federal Aviation Regulations, and that the aircraft has been inspected and is airworthy and eligible for the airworthiness certificate requested			
DATE OF APPLICATION 9/27/77			
NAME AND TITLE (Print or type) T.W. Reed, Jr. Agent			
SIGNATURE T.W. Reed, Jr.			
A. THE AIRCRAFT DESCRIBED ABOVE HAS BEEN INSPECTED AND FOUND AIRWORTHY BY: (Complete this section only if FAR 21.183(d) applies)			
2. FAR PART 121 OR 127 CERTIFICATE HOLDER (Give Certificate No.)			
3. CERTIFICATED MECHANIC (Give Certificate No.)			
6. CERTIFICATED REPAIR STATION (Give Certificate No.)			
5. AIRCRAFT MANUFACTURER (Give Name of Firm)			
DATE			
TITLE			
SIGNATURE			
(Check ALL applicable blocks) I find that the aircraft described in Section I or VII meets the requirements for <input checked="" type="checkbox"/> The certification requested, or <input type="checkbox"/> Amendment or modification of its current airworthiness certificate. Inspection for a special flight permit under Section VII was conducted by: <input type="checkbox"/> FAA Inspector; certificate holder under <input type="checkbox"/> FAR 65, <input type="checkbox"/> FAR 121 or 127, or <input type="checkbox"/> FAR 145.			
DATE OCT 1 7 1977			
DISTRICT OFFICE MIA-EMDO 7-0-43			
DESIGNEE'S SIGNATURE AND NO. JIMMIE A. LANFAIR 4			
FAA INSPECTOR'S SIGNATURE 1			

DATE: 2-13-85

Typed by # 38

UNITED STATES OF AMERICA
DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
STANDARD AIRWORTHINESS CERTIFICATE

1. NATIONALITY AND REGISTRATION MARKS	2. MANUFACTURER AND MODEL	3. AIRCRAFT SERIAL NUMBER	4. CATEGORY
N47815	Piper PA34-200T	24-7870004	Normal

5. AUTHORITY AND BASIS FOR ISSUANCE
This airworthiness certificate is issued pursuant to the Federal Aviation Act of 1958 and certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to conform to the type certificate therefor, to be in condition for safe operation, and has been shown to meet the requirements of the applicable comprehensive and detailed airworthiness code as prescribed by Annex 8 to the Convention on International Civil Aviation, except as noted herein.

6. TERMS AND CONDITIONS
Unless sooner surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator this airworthiness certificate is effective as long as the maintenance, preventive maintenance, and alterations are performed in accordance with Parts 21, 23, and 91 of the Federal Aviation Regulations, as appropriate, and the aircraft is registered in the United States.

DATE OF ISSUANCE	FAA REPRESENTATIVE	DESIGNATION NUMBER
OCT 17 1977	JIMMIE A. LANFAIR	DOA SO-1

Any alteration, reproduction, or misuse of this certificate may be punishable by a fine not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. THIS CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT IN ACCORDANCE WITH APPLICABLE FEDERAL AVIATION REGULATIONS.

CAMERA NO. 1W DATE: 2-13-85

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