



US Department
of Transportation
Federal Aviation
Administration

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

OMB No. 2120-0020
Exp: 07/31/2026

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 N64160	Serial No. 17265054
	Make CESSNA	Model 172M
2. Owner	Name (As shown on registration certificate) Waggoner David	Address (As shown on registration certificate) Address 23115 Airport Rd NE #8 City Aurora State OR Zip 97002 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	CESSNA	(As described in Item 1 above)	17265054
<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 AVID AVIONICS		U. S. Certificated Mechanic	Manufacturer
Address 2800 25TH ST SE		Foreign Certificated Mechanic	C. Certificate No.
City SALEM State OR		<input checked="" type="checkbox"/> Certificated Repair Station	AVDR404E
Zip 97302 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 <i>[Signature]</i> 912512025
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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	<input checked="" type="checkbox"/>	Repair Station	Inspection Authorization
Certificate or Designation No. AVDR404E		Signature/Date of Authorized Individual <i>[Signature]</i> 912512025		

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 N64160

9/25/2025

Nationality and Registration Mark

Date

Removed STC SA01933LA-D including Garmin GNS 430W GPS/Nav/Com (p/n: 011-01060-00 s/n: 23427666).

Installed STC SA02019SE-D including Garmin GTN 650Xi GPS/Nav/Com and Garmin GCO 14 CO Detector in accordance with Garmin GTN Xi Series Part 23 STC Installation Manual 190-01007-C0 Rev 13, dated June 2025. Interfaced GTN 750Xi to existing Com, GPS, and Nav antennas.

Installed Garmin G5 HSI, GMU 11 magnetometer, GAD 29D ARINC Adapter, GAD 13 OAT adapter, GTP 59 OAT Probe, and two VFR glareshield GPS antennas. Interfaced equipment to existing Garmin G5 attitude indicator previously installed under Garmin G5 STC SA01818WI.

Provided GTN Xi Series Airplane Flight Manual Supplement 190-01007-C2 Rev 9, Dated June 2025 and provided G5 Airplane Flight Manual Supplement 190-01112-13 Rev 9, dated May 2023, placed both in aircraft flight manual.

Provided ICA from Maintenance Manual w/ICA - STC Part 23, GTN Xi Series 190-01007-C1 Rev 7, Dated June 2025 and provided ICA from G5 Electronic Flight Instrument Maintenance Manual 190-01112-11, Rev 10, Dated December 2021, placed both with aircraft records.

Filed FAA Form 337 and placed copy with aircraft records.

Provided STCs, STC Permission Letters, and 8130s and placed with aircraft records.

Verified the maximum continuous electrical load does not exceed 80% of the charging system's rated capacity per AC43.13-2B, chapter 2, paragraph 208, (b.) and ASTM F2490-05.

Updated weight and balance by calculation.

End

Additional Sheets Are Attached



US Department
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1. Aircraft	Nationality and Registration Mark N64160	Serial No. 17265054	
	Make Cessna	Model 172	Series M
2. Owner	Name (As shown on registration certificate) Waggoner David	Address (As shown on registration certificate) Address 23115 Airport RD NE ste.8 City Aurora Zip 97002	State OR Country USA

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input type="checkbox"/>	AIRFRAME	Cessna	(As described in Item 1 above)	17265054
<input type="checkbox"/>	<input checked="" type="checkbox"/>	POWERPLANT	Lycoming	O-360-A4M	L-37349-36A
<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	Alec Baines		<input checked="" type="checkbox"/> U. S. Certificated Mechanic	Manufacturer
Address	937 NE Webster St.		<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.
City	Portland	State OR	<input type="checkbox"/> Certificated Repair Station	4563300
Zip	97211	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 <i>Alec Baines 7/11/2022</i>
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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	<input type="checkbox"/> Persons Approved by Canadian Department of Transport
	FAA Designee	Repair Station	<input checked="" type="checkbox"/> Inspection Authorization	Other (Specify)
Certificate or Designation No. 3436574		Signature/Date of Authorized Individual <i>Rey Prindle 7/11/2022</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.)

Nationality and Registration Mark

Date

Removed Oil filter and installed Challenger Aviation Products Challenger Oil Filter CP-48110C IAW Installation instructions #1124 Rev. B dated 10/31/2009. Ops and leak check good.

STC # SE02352CH

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 N64160	Serial No. 17265054	
	Make Cessna	Model 172	Series M
2. Owner	Name (As shown on registration certificate) Waggoner David	Address (As shown on registration certificate) Address 23115 Airport RD NE #8 City Aurora Zip 97002	State OR 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	Cessna	(As described in Item 1 above)	17265054
<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	Alec Balnes		<input checked="" type="checkbox"/> U. S. Certificated Mechanic	Manufacturer	
Address	937 NE Webster St.		<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.	
City	Portland	State OR	<input type="checkbox"/> Certificated Repair Station	4563300	
Zip	97211	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 <i>Alec Balne</i> 7/11/2022
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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. 3436574		Signature/Date of Authorized Individual <i>Rey Prindle</i> 07/11/2022					

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.)

STC # SA00897CH

Nationality and Registration Mark

Date

Removed LH/RH windows from A/C and installed Bubble Windows from Great Lakes Aero, P/N W-2903-2 IAW Great Lakes Aero Instructions A-9 & A-9B. Installed placard PN W-2910.

Additional Sheets Are Attached



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1. Aircraft	Nationality and Registration Mark N64160	Serial No. 17265054
	Make Cessna	Model 172
2. Owner	Name (As shown on registration certificate) Waggoner David	Address (As shown on registration certificate) Address 23115 Airport RD NE ste.8 City Aurora Zip 97002
		State OR 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>Cessna</u>	(As described in Item 1 above)	<u>17265054</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	Alec Baines		<input checked="" type="checkbox"/> U. S. Certificated Mechanic	Manufacturer
Address	937 NE Webster St.		<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.
City	Portland	State OR	<input type="checkbox"/> Certificated Repair Station	4563300
Zip	97211	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 <i>Alec Baines</i> <i>7/12/2022</i>
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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	Other (Specify)
Certificate or Designation No. 3436574		Signature/Date of Authorized Individual <i>By Prindle</i> <i>07/12/2022</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.)

Nationality and Registration Mark

Date

Removed old beacon assembly from A/C. Installed Whelen LED Anti-Collision light assembly P/N 01-0772010-70, M/O: OR36S1N, S/N:240047 IAW STC SA615EA and form 14B91B installation guide



Additional Sheets Are Attached



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1. Aircraft	Nationality and Registration Mark N64160	Serial No. 17265054	
	Make Cessna	Model 172M	Series 172
2. Owner	Name (As shown on registration certificate) Willamette Aviation Service	Address (As shown on registration certificate) Address <u>23115 Airport Rd NE #8</u> City <u>Aurora</u> State <u>OR</u> Zip <u>97002</u> Country <u>U.S.A.</u>	Willamette Aviation

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>Cessna</u>	(As described in Item 1 above)	<u>17265054</u>
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
<input type="checkbox"/>	<input type="checkbox"/>		Manufacturer		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency		
Name <u>Shane Elrod</u>			<input checked="" type="checkbox"/> U. S. Certificated Mechanic	Manufacturer
Address <u>14209 SW Tewkesbury Drive</u>			Foreign Certificated Mechanic	C. Certificate No.
City <u>Portland</u>	State <u>OR</u>		Certificated Repair Station	4434698
Zip <u>97224</u>	Country <u>USA</u>		Certificated Maintenance Organization	

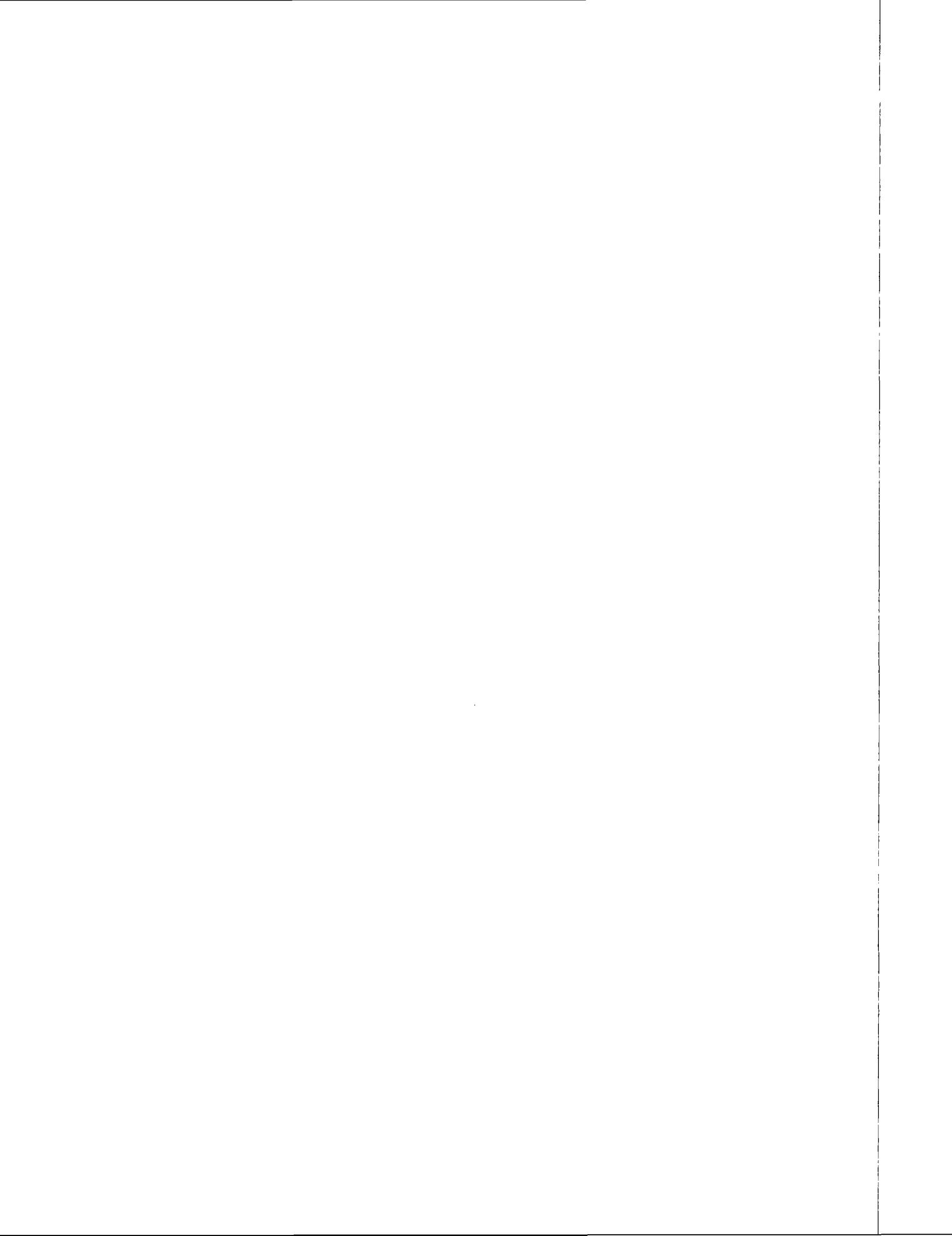
D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and 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		
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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. 3436574			Signature/Date 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.)

N64160

July 26 2021

Nationality and Registration Mark

Date

Installed the Door Steward door assist gas spring modification in accordance with STC# SA01120SE, instructions MVA-200C10M&O, on both the cabin doors. Weight change negligible. Item added to the aircraft equipment list.

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

There are NO MANDATORY replacement items, structural inspection intervals or related structural inspection procedures.

ATA Chapter 05 Time Limits/Maintenance Checks

05-00 General

The Door Steward™ installation should be inspected during scheduled airframe periodic inspections that cover the door and door frame areas.

05-20 Scheduled Maintenance

Inspection of the installation will consist of the following:

1. Security of attachment of both airframe and door brackets to the associated structure.
2. Security of the gas spring attachment to the ball stud(s).
3. Security of the rod end to the airframe bracket and ball stud to the door bracket.
4. Smooth operation of the gas spring. Inspect for evidence of end seal leakage or loss of gas spring pressure.

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

Additional Sheets Are Attached





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

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

Electronic Tracking Number

For FAA Use Only

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1. Aircraft	Nationality and Registration Mark N64160		Serial No. 17265054
	Make CESSNA	Model 172M	Series
2. Owner	Name (As shown on registration certificate) MARKANN LLC		Address (As shown on registration certificate) 21111 S REDLAND RD OREGON CITY, OREGON 97045-8603
			UNITED STATES

3. For FAA Use Only

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

6. Conformity Statement

A. Agency's Name and Address Pacific Coast Avionics Corporation 22783 Airport Road NE Aurora Oregon, 97002	B. Kind of Agency		C. Certificate No. OPXR455L
	U.S. Certificated Mechanic		
	Foreign Certificated Mechanic		
	XXX Certificated Repair Station 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>Frank Palmer</i>	May 16, 2018
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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	Person Approved by Transport Canada Airworthiness Group
	FAA Designee	X	Repair Station	Inspection Authorization	Other (Specify)

Certificate or Designation No. OPXR455L	Signature/Date of Authorized Individual <i>Frank Palmer</i>	May 16, 2018
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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 aircraft nationality and registration mark and date work completed.)

N64160

May 16, 2018

Nationality and Registration Mark

Date

Description of Type Design Change:

Installation of the Garmin G5 Electronic Flight Instrument in accordance with FAA approved Garmin STC SA01818WI and Master Documents List 005-01112-01 Rev 12, dated Feb 2018, or later FAA approved revision.

The FAA approved Garmin G5 Airplane Flight Manual Supplement P/N 190-01112-13 Rev 5, dated Nov 2017 is required for in flight operation of this unit and has been placed in the Aircraft.

Alteration Notes:

The Garmin G5 Electronic Flight Instrument has been installed in the instrument panel at F.S. 12.5. It receives power from the Main buss using a newly installed 5 amp circuit breaker labeled "G5/ATT". The G5 was installed, inspected, configured and tested IAW the FAA approved STC SA01818WI and the Garmin G5 document P/N 190-01112-10 Rev 13, dated Feb 2018.

The aircraft weight and balance, equipment list, and flight manual have been amended to reflect changes made to the aircraft. An electrical load analysis required by 14 CFR 23.1351(a)(2) was performed in accordance with AC 43.13-2B, Chapter 2, paragraph 208(b) and ASTM F2490-05 and the continuous load of the alternator system was found not to exceed 80% of its capacity.

Instructions for Continued Airworthiness:

The FAA approved Garmin G5 Instructions for Continued Airworthiness P/N 190-01112-11 Rev 4, dated Nov 2017 has been included with the aircraft maintenance records.

End-

 Additional Sheets Are Attached



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1. Aircraft	Nationality and Registration Mark N64160	Serial No. 17265054
	Make Cessna	Model 172M
2. Owner	Name (As shown on registration certificate) MARKANN LLC	Address (As shown on registration certificate) Address 21111 S REDLAND RD City OREGON CITY State OREGON zip 97045-8603 Country UNITED STATES

3. For FAA Use Only

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

6. Conformity Statement

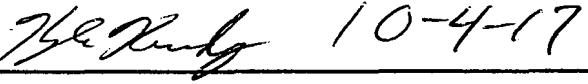
A. Agency's Name and Address		B. Kind of Agency		
Name <u>Kyle Kennedy</u> Address <u>2232 S. Pacific Ave.</u> City <u>Kelso</u> State <u>WA</u> Zip <u>98626</u> Country <u>United States</u>		<input checked="" type="checkbox"/> U. S. Certificated Mechanic <input type="checkbox"/> Manufacturer <input type="checkbox"/> Foreign Certificated Mechanic <input type="checkbox"/> C. Certificate No. <input type="checkbox"/> Certificated Repair Station <input type="checkbox"/> A&P 3425292 <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 Kyle Kennedy	
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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. 3425292		Signature/Date of Authorized Individual Kyle Kennedy 		

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.

N64160

10/4/17

8. Description of Work Accomplished

Nationality and Registration Mark Date

Repaired crack in bulkhead channel after stop drilling it at Station 108.0 near baggage door latch. Consulted Cessna Technical support and after determining that there was not a Service Bulletin or Service Kit available for the area, decided to use the structural repair section of Cessna 172M Service Manual. Made repair WRT paragraph 18-57 and Figure 18-5. Used an 8 inch portion of similar bulkhead channel to match radius and degree of bend for doubler made of 2024-T3 .040 inch thickness. Used MS20470AD4 rivets with a spacing of .75 of an inch with an edge distance on .25 of an inch per figure instructions.

----- END -----



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

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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 N64160	Serial No. 17265054
	Make Cessna	Model 172M
2. Owner	Name (As shown on registration certificate) MARKANN LLC	Address (As shown on registration certificate) Address 21111 S REDLAND RD City OREGON CITY State OREGON Zip 97045-8603 Country UNITED STATES

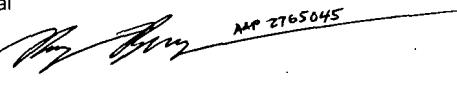
3. For FAA Use Only

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	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>		Manufacturer		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency		
Name Roger Burgoyne		<input checked="" type="checkbox"/> U. S. Certificated Mechanic		
Address 2232 S. Pacific Ave.		Manufacturer		
City Kelso State WA		<input type="checkbox"/> Foreign Certificated Mechanic		
Zip 98626 Country United States		<input type="checkbox"/> Certificated Repair Station		
		<input type="checkbox"/> Certificated Maintenance Organization		
		A&P 2765045		

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 Roger Burgoyne / 10-4-2017	 AP 2765045
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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	Other (Specify)
Certificate or Designation No. 3425292		Signature/Date of Authorized Individual Kyle Kennedy / 10-4-2017		

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

N64160

10/4/2017

Nationality and Registration Mark

Date

Removed pilot & co-pilot shoulder harnesses & lap seat belts. Installed BAS Inc. inertia reel shoulder harness assemblies at both pilot & co-pilot positions in accordance with STC SA2067NM. Amended aircraft weight & balance records accordingly.----- END -----



US Department
of Transportation
Federal Aviation
Administration

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

Form Approved
ONB 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 N64160	Serial No. 17265054
	Make CESSNA	Model 172M
2. Owner	Name (As shown on registration certificate) MARKANN LLC	Address (As shown on registration certificate) 21111 S REDLAND RD OREGON CITY, OREGON 97045-8603
3. For FAA Use Only		

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

6. Conformity Statement

A. Agency's Name and Address Pacific Coast Avionics Corporation 22783 Airport Road NE Aurora Oregon, 97002	B. Kind of Agency	Manufacturer
	U.S. Certificated Mechanic	C. Certificate No. OPXR455L
	Foreign Certificated Mechanic	
	XXX Certificated Repair Station	
	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 Christopher A Brand	July 9, 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 APPROVED REJECTED

BY	FAA Fit. Standards Inspector		Manufacturer	Maintenance Organization	Person Approved by Transport Canada Airworthiness Group
	FAA Designee	X	Repair Station	Inspection Authorization	Other (Specify)

Certificate or Designation No. OPXR455L	Signature/Date of Authorized Individual Christopher A Brand	July 9, 2014
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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 aircraft nationality and registration mark and date work completed.)

N64160

July 9, 2014

Nationality and Registration Mark

Date

Description of Type Design Change:

Installation of the GARMIN GDL 88 DATA RECEIVER in accordance with FAA approved GARMIN STC SA02119SE and MASTER DOCUMENTS LIST 005-00645-02 REV 4, dated Jan 2014, or later FAA approved revision.

The FAA approved GARMIN GDL 88 AIRPLANE FLIGHT MANUAL SUPPLEMENT P/N 190-01310-02 REV 1, dated Dec 2012 is required for in flight operation of this unit and has been placed in the Aircraft.

Alteration Notes:

A GARMIN GDL 88 DATA RECEIVER has been installed on the aft avionics shelf at F.S. 112. It receives power from the MAIN BUSS using a newly installed 3 amp Klixon 7277-2-X series circuit breaker labeled ADS-B. The GDL 88 is interfaced to the a newly installed Comant CI-105 L-band blade antenna via RG-142 coaxial cable to send and receive ADS-B interrogation replies; a newly installed ACK A-30.9 pressure altitude encoder via RS-232 connections to receive altitude data; and an existing GNS 430W via RS-232 connections to receive GPS telemetry data and control inputs and to send system status data, and ARINC 429 connections to send traffic data. The GDL 88 was installed, inspected, configured and tested IAW the FAA approved GARMIN GDL 88 document P/N 190-01310-00 REV-3, dated Jan 2014 approved under STC SA02119SE.

The aircraft weight and balance, equipment list, and flight manual have been amended to reflect changes made to the aircraft. An electrical load analysis required by 14 CFR 23.1351(a)(2) was performed in accordance with AC 43.13-2B, Chapter 2, paragraph 208(b) and ASTM F2490-05 and the continuous load of the alternator system was found not to exceed 80% of its capacity.

Instructions for Continued Airworthiness:

The FAA approved GARMIN GDL 88 INSTRUCTIONS FOR CONTINUED AIRWORTHINESS P/N 190-01310-01 REV-1, dated Nov 2012 is included with the aircraft maintenance records.

End



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 N64160	Serial No. 17265054
	Make Cessna	Model 172M
2. Owner	Name (As shown on registration certificate) MARKANN LLC	Address (As shown on registration certificate) Address 21111 S Redland Rd
		City Oregon City State OR Zip 97045-8603 Country USA

3. For FAA Use Only

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

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency		
Name Roger Burgoyne	Address 5216B Asher Ln	<input checked="" type="checkbox"/> U. S. Certificated Mechanic	Manufacturer	
City Ooltewah	State TN	Foreign Certificated Mechanic	C. Certificate No.	
Zip 37363	Country USA	Certificated Repair Station	2765045 A&P	
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 Roger Burgoyne 06-21-2013	
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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. 3196889		Signature/Date of Authorized Individual Mike Houtchens 06-21-2013		



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.

N64160

06-21-2013

8. Description of Work Accomplished

Nationality and Registration Mark

Date

Installed Concorde RG-25 battery in accordance with STC SA01118WI. END





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))

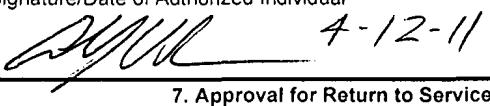
1. Aircraft	Nationality and Registration Mark N64160	Serial No. 17265054
	Make Cessna	Model 172M
2. Owner	Name (As shown on registration certificate) FERREE STEVEN M	Address (As shown on registration certificate) Address 21111 S. REDLAND RD City OREGON CITY State OR Zip 97045-8603 Country USA

3. For FAA Use Only

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

6. Conformity Statement	
A. Agency's Name and Address	
Name Andrew J. Vohs Address 2215C Parrott Way City Kelso State WA Zip 98626 Country USA	
B. Kind of Agency	
<input checked="" type="checkbox"/> U. S. Certificated Mechanic Manufacturer <input type="checkbox"/> Foreign Certificated Mechanic C. Certificate No. <input type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Certificated Maintenance Organization 2714112	

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  4-12-11
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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 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	<input checked="" type="checkbox"/> Inspection Authorization	Other (Specify)	

Certificate or Designation No. 2714112	Signature/Date of Authorized Individual Andrew J. Vohs  4-12-11
--	---

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.)

N64160

4-12-11

Nationality and Registration Mark

Date

Installed Zeftronics Alternator Controller Unit P/N R15V00 Rev A in accordance with STC# SA8031SW.

Additional Sheets Are Attached



US Department
of Transportation
Federal Aviation
Administration

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

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

Electronic Tracking Number

For FAA Use Only

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

1. Aircraft	Nationality and Registration Mark N64160	Serial No. 17265054
	Make Cessna	Model 172M
2. Owner	Name (As shown on registration certificate) Ferree, Steven M	Address (As shown on registration certificate) Address 21111 S Redland Rd
		City Oregon City
	Zip 97045-8603	Country USA

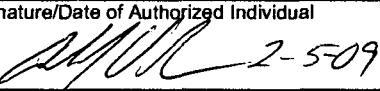
3. For FAA Use Only

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

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency		
Name Andrew J. Vohs		<input checked="" type="checkbox"/> U. S. Certificated Mechanic		
Address 2215C Parrott Way		Manufacturer		
City Kelso		<input type="checkbox"/> Foreign Certificated Mechanic		
State WA		<input type="checkbox"/> C. Certificate No.		
Zip 98626		<input type="checkbox"/> Certificated Repair Station		
Country USA		<input type="checkbox"/> 2714112		
<input type="checkbox"/> Extended range fuel per 14 CFR Part 43		Certificated Maintenance Organization		

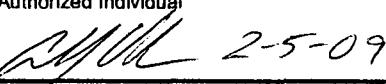
D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and 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  2-5-09
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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. 2714112	Signature/Date of Authorized Individual Andrew J. Vohs  2-5-09
---	--

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.

N64160

2-5-09

8. Description of Work Accomplished

Nationality and Registration Mark Date

Installed Electronics International digital RPM instrument in accordance with STC SA5924NM. END

Additional Sheets Are Attached



US Department
of Transportation
Federal Aviation
Administration

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

Form Approval
ONB 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 Cessna	Model 172M
	Serial No. 17265054	Nationality and Registration Mark N64160
2. Owner	Name (As shown on registration certificate) Ferree, Steven M	Address (As shown on registration certificate) 7054 SW Glenwood CT Wilsonville OR 97070-7726

3. For FAA Use Only

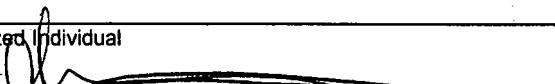
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5. Unit Identification				4. Type	
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	(As described in item 1 above)				XXX
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

6. Conformity Statement

A. Agency's Name and Address	B. Kind of Agency	C. Certificate No.
Pacific Coast Avionics Corp. 22783 Airport Rd. N.E. Aurora OR. 97002	<input type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input checked="" type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer	OPXR455L Radio Class I II L-R L-A L-I

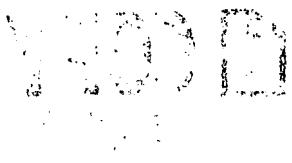
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation regulations and that the information furnished herein is true and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

Date December 5, 2007 12-5-2007	Signature of Authorized Individual Christopher Brand 
---------------------------------------	--

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

	FAA Flt. Standards Inspector		Manufacturer	Inspection Authorization	Other (Specify)
BY	FAA Designee	XX XX	Repair Station	Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection December 5, 2007 12-5-2007		Certificate or Designation No. 3083970		Signature of Authorized Individual Christopher Brand 	



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 aircraft nationality and registration mark and date work completed.)

Aircraft Make: Cessna Model: 172M Serial: 17265054 Registration: N64160

Description of Type Design Change:

The upgrade of a Garmin Model 430 to a **Garmin Model 430W GPS-WAAS Navigation System** in accordance with FAA Approved Garmin 400W Series Master Data List, Drawing No: 005-C0221-00, Revision "A", dated October 31, 2006, or later FAA approved revision. (STC# **SA01933LA**)

The existing GNS 430 Flight Manual Supplement has been removed from the Aircraft Flight Manual and the new FAA Approved **Garmin 400W Series Airplane Flight Manual Supplement, Document No: 190-00356-63, Revision "Original"**, dated November 6, 2006, or later FAA approved revision has been placed in the Aircraft Flight Manual.

Alteration Notes:

Removed the Garmin GA 56 GPS Antenna, P/N 011-00134-00 and installed a new GA 35 GPS/WAAS Antenna P/N 013-00235-00 using the provisions left behind from the standard antenna in accordance with Garmin Upgrade Manual P/N 190-00357-06 Rev B and STC no. **SA01933LA**.

Inspected and tested coax for correct type and attenuation in accordance with Garmin STC Upgrade Manual P/N 190-00357-06 Rev. B.

The Garmin GNS 430, P/N 011-00134-00 was removed from the aircraft and replaced with a Garmin GNS 430W, P/N 011-01060-45. The new 430W uses the provisions left behind from the standard 430 installation and is configured in the same manner as the removed unit.

The "WAAS" upgrade installation was performed, inspected, and certified in accordance with the requirements listed in the Garmin 400W/500W STC Upgrade Installation Manual P/N 190-00357-06

The aircraft flight manual has been updated to reflect the changes that have been made to the aircraft. A new electrical load analysis has been performed in accordance with AC 21-38 and the aircraft was found to be in compliance with 14 CFR 23.1351.

A placard stating "GNS 430W NOT APPROVED FOR IFR NAVIGATION" has been affixed to the instrument panel in plain view of the pilot. This placard is to be removed upon satisfactory completion of an IFR certification flight and the GPS has been shown to meet the criteria listed in AC 20-138A

Instructions for Continued Airworthiness:

Garmin Document P/N 109-00356-65, GNS 430W Instructions for Continued Airworthiness has been included in the aircraft maintenance records.

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 NM-FSDO-02FEE

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 civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

1. Aircraft	Make CESSNA	Model 172M
	Serial No. 17265054	Nationality and Registration Mark N64160
2. Owner	Name (As shown on registration certificate) FERREE STEVEN M	Address (As shown on registration certificate) 23288 FLORENCE ACRES RD MONROE WA 98272-8621

3. For FAA Use Only

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

6. Conformity Statement

A. Agency's Name and Address MICHAEL HOUTCHENS NW AIRTECH 2215C PARROTT WAY KELSO WA 98526	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. AP 516789350
--	--	---

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 6-14-00	Signature of Authorized Individual MICHAEL HOUTCHENS
------------------------	--

7. Approval for Return To Service

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

APPROVED REJECTED

BY	FAA Fit. Standards Inspector	Manufacturer	<input checked="" type="checkbox"/> Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station	Person Approved by Transport Canada Airworthiness Group	

Date of Approval or Rejection 6-14-00	Certificate or Designation No. 516789350	Signature of Authorized Individual MICHAEL HOUTCHENS
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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.)

1. INSTALLED O-360-A4M ENGINE IAW STC SA4428SW.
2. INSTALLED GROSS WEIGHT INCREASE IAW STC SA2196CE.
3. INSTALLED ELECTRONICS INTERNATIONAL SR-8A EGT / CHT SCANNER IAW STC SA4302NM.
4. REMOVED KR-85 ADF RECEIVER AND TRAY.
5. REMOVED PETERSON AUTO FUEL STCS SE1931CE AND SA1948CE BY REMOVAL OF O-320 ENGINE, DATA TAG (CLAMP) AND PLACARDS.

WEIGHT AND BALANCE AND EQUIPMENT LIST DATA AMENDED ACCORDINGLY. END.

JUN 30 2000

|| Additional Sheets Are Attached

* U.S.G.P.O. 1990-761-753



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
FAA-FSDO-09-REE

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 civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

1. Aircraft	Make CESSNA	Model 172M
	Serial No. 17265054	Nationality and Registration Mark N64160
2. Owner	Name (As shown on registration certificate) FERREE STEVEN M	Address (As shown on registration certificate) 23288 FLORENCE ACRES RD MONROE WA 98272-8621

3. For FAA Use Only

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

6. Conformity Statement

A. Agency's Name and Address	B. Kind of Agency	C. Certificate No.
MICHAEL HOUTCHENS NW AIRTECH 2215C PARROTT WAY KELSO WA 98626	<input checked="" type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer	AP 516789350

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 6-14-00	Signature of Authorized Individual MICHAEL HOUTCHENS	
------------------------	--	--

7. Approval for Return To Service

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

BY	FAA Fit. Standards Inspector	Manufacturer	<input checked="" type="checkbox"/> Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station	Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 6-14-00		Certificate or Designation No. 516789350	Signature of Authorized Individual MICHAEL HOUTCHENS	

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 O-360-A4M ENGINE IAW STC SA4428SW.
2. INSTALLED GROSS WEIGHT INCREASE IAW STC SA2196CE.
3. INSTALLED ELECTRONICS INTERNATIONAL SR-8A EGT / CHT SCANNER IAW STC SA4302NM.
4. REMOVED KR-85 ADF RECEIVER AND TRAY.
5. REMOVED PETERSON AUTO FUEL STCS SE1931CE AND SA1948CE BY REMOVAL OF O-320 ENGINE, DATA TAG (CLAMP) AND PLACARDS.

WEIGHT AND BALANCE AND EQUIPMENT LIST DATA AMENDED ACCORDINGLY. END.

|| Additional Sheets Are Attached

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

US Department
of Transportation
Federal Aviation
Administration

Form Approval
ONB No. 2120-0020

For FAA Use Only

Office Identification

✓ NM-FSDO-09

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 Cessna	Model 172M
	Serial No. 17265054	Nationality and Registration Mark N64160
2. Owner	Name (As shown on registration certificate) FERREE STEVEN M	Address (As shown on registration certificate) 23288 FLORENCE ACRES RD MONROE WA 98272-8621

3. For FAA Use Only

The date/alteration identified herein complies with the applicable airworthiness requirements and is approved for the above described aircraft, subject to conformity inspection by a person authorized in FAR 43, Section 43.7

JAN 04 2000

DATE

SIGNATURE

PDX-FSDO

Unit	Make	Model	Serial No.	5. Type	
				Repair	Alteration
AIRFRAME	<i>012712000</i> (As described in item 1 above)				XXX
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

6. Conformity Statement

A. Agency's Name and Address Pacific Coast Avionics 22783 Airport Road NE Aurora, OR 97002	B. Kind of Agency		C. Certificate No. OPXR455L Radio Class I, II L-R, L-I, L-SS
		U.S. Certificated Mechanic	
		Foreign Certificated Mechanic	
	XXX	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 12/21/99	Signature of Authorized Individual <i>✓ R. Forman</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	XX	Repair Station	Person Approved by Transport Canada Airworthiness Group	

Date of Approval or Rejection <i>01/27/2000</i>	Certificate or Designation No. OPXR455	Signature of Authorized Individual <i>✓ R. Forman</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 aircraft nationality and registration mark and date work completed.)

Removed from the aircraft the existing Bendix/King KX 170B NAV/COM & KI 201C NAV IND.

Installed in the aircraft a Garmin TSO'D GNS 430 GPS/NAV/COM in the radio stack at frame station 9.5, in the No. 1 radio position. Installed the GA 56 GPS antenna at frame station 36, using the manufacturer's supplied doubler. The GNS 430 receives DC power via two separate 5 amp circuit breakers mounted at frame station 15, that are fed by the AK-550-6 14v to 28 volt converter. The converter was installed at frame station 108 in the rear of the aircraft. It receives DC power via a 15 amp circuit breaker, that is fed from the existing avionics buss. The circuit breaker is mounted on the instrument panel at frame station 15. The circuit breakers are labeled as follows: the 15 amp as (CONV), One 5 amp as (NAV/COM 1) and the second 5amp as (GPS). The circuit breakers are Potter & Brumfield P/N W58-XC4C12A-X (x identifies amperage of circuit breakers listed above). These circuit breakers have been determined to be approved parts based on UL file No. E69543 and CSA file No. LR15734. This installation provides course deviation information, Nav validity, omni bearing information, and "GPS" or "VLOC" annunciation to an installed Garmin GI 106A CDI, located on the pilots instrument panel at frame station 15. The GNS 430 has been interfaced to the existing Bendix/King KMA 20 Audio Panel. The GNS 430 is also interfaced to the existing altitude encoder. The GNS 430 is not interfaced to any external GPS switches or autopilot systems. The GPS system has previously been approved for installation into a Piper PA-32 under STC# SA00705WI.

A FAA approved flight manual supplement for the GNS 430 dated JAN 04 2000 has been completed for IFR use of the GPS system and installed in the aircraft flight manual.

A placard stating "GPS NOT APPROVED FOR IFR NAVIGATION" has been affixed to the instrument panel in plain view of the pilot. This placard is to be removed upon satisfactory completion of an IFR test flight (reference the flight test data sheet) and the GPS has been shown to meet the criteria listed in par 8c(2) of AC 20-138. This installation will then be approved for IFR Enroute, terminal and non-precision approach operations within the limitations listed in the FAA approved flight manual supplement for the Garmin GNS 430 GPS dated JAN 04 2000. Limitations and procedures listed in this manual must be followed to ensure continued airworthiness. The GPS is certified under TSO C129 Class A-1.

IAW AC 20-138 appendix 1, this is a follow on installation reference STC# SA00705WI. Performed a ground test IAW AC 20-138 par 7(b)(1-11), and the Garmin installation manual.

This installation was performed IAW The Garmin GNS 430 installation manual P/N 190-00140-02 Rev. E, Dated 25 June 1999, GI 106A installation manual P/N 190-00180-00 Rev. A Dated April 1999, GA 56 Antenna Installation Instructions manual P/N 190-00094-00 Rev. C Dated April 22, 1999, & Ameri-King AK-550-6 installation Document IM-550 The physical aspects of this installation meet or exceed the criteria inclusive to FAA AC 43.13-1B/2A dated September 1998.

The GPS is not the sole source of navigation information in this aircraft.

Conducted an electrical load analysis and determined the A/C electrical system can support the equipment installed.

The aircraft weight and balance has been amended to reflect this installation.

Instructions for continued airworthiness: Upon removal and replacement, perform a post installation ramp test IAW the manufacturers installation/maintenance manuals. GNS 430 reference installation manual PN#190-00140-002, Rev. E or later Appendix A

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

Number SA00705WI

This certificate is issued to Garmin International
1200 E 51st St.
Olathe, KS 66062

*certifies that the change in the type design for the following product with the limitations and conditions
hereinafter specified herein meets the airworthiness requirements of Part 3 of the Civil Air Regulations.*

Original Product - Type Certificate Number: A3S0
Model: Piper
Model: PA-32

Description of Type Design Change:

Installation of GARMIN GNS 430 VHF Communication Transceiver / VOR/ILS Receiver / GPS Receiver in accordance with (1) Garmin Corporation Master Drawing List, Drawing No. 005-00051-00, Revision H, dated September 22, 1998, and (2) FAA Approved Airplane Flight Manual Supplement for Piper PA32 with GARMIN GNS 430 VHF Communication Transceiver / VOR/ILS Receiver / GPS Receiver, Document No. 190-00140-03, Revision A, dated October 2, 1998, or later FAA approved revision to (1) or (2).

Limitations and Conditions:

Compatibility of this design change with previously approved modifications must be determined by the installer.

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

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

Date of application: November 26, 1997

Date reissued:

Date of issuance: October 02, 1998

Date amended:



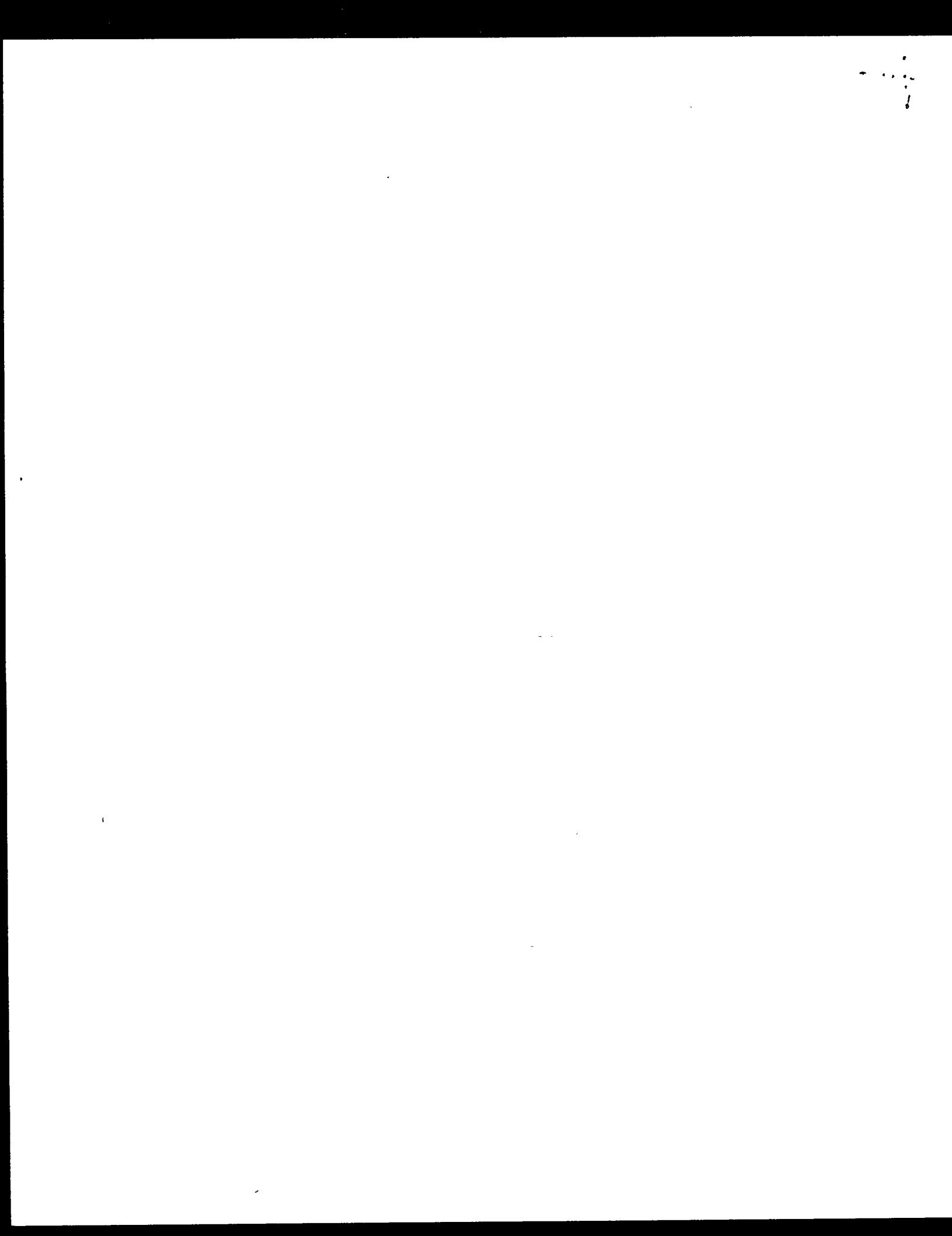
By direction of the Administrator

C. Dale Bleakney
(Signature)

C. Dale Bleakney
Program Manager
Wichita Aircraft Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.
FAA Form 8110-2 (10-68) PAGE 1 of 1 PAGES *This certificate may be transferred in accordance with FAR 21.47.*





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

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification

Sea-PSOO - JAT

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>CESSNA</i>	Model <i>172M</i>
	Serial No. <i>17315054</i>	Nationality and Registration Mark <i>N44160 APR 24 1997</i>
2. Owner	Name (As shown on registration certificate) <i>Campbell, Jim D. Campbell, SHARON C.</i>	Address (As shown on registration certificate) <i>1914 King St Bellingham, WA 98225</i>

3. For FAA Use Only

THE AIRCRAFT 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.

4/18/97 *Mark H. Cason*

Date

FAA Inspector NM-FCC90-01

4. Unit Identification

5. Type

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

6. Conformity Statement

A. Agency's Name and Address	B. Kind of Agency	C. Certificate No.
<i>CHARLOTTE UTAHIA 2052 Airport Way Bellingham, WA 98224</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>410218824</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>4/18/97</i>	Signature of Authorized Individual <i>Mark H. Cason</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	<input checked="" type="checkbox"/> Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station	Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection <i>4/18/97</i>		Certificate or Designation No. <i>410218824</i>	Signature of Authorized Individual <i>Mark H. Cason</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 ATEX ECT 110-4 Per ATEX ECT
Installation And Operational Manual
Document # 570-1015 Rev. D. Section 3.

All work done in accordance with FAR-AC 43.13-2A
Chapters 1 through 3, 11 and 13. All wiring installed
in accordance with 43.13-1A.

Weight and Balance Negl.
Equipment list revised.

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

For FAA Use Only

Office Identification
SEA-F502

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>CESSNA</i>	Model <i>172M</i>
	Serial No. <i>17265054</i>	Nationality and Registration Mark <i>N64160 KFJWEN</i>
2. Owner	Name (As shown on registration certificate) <i>Campbell, Jim D. Campbell, Sharon C.</i>	Address (As shown on registration certificate) <i>1914 King St. Bellingham, WA. 98225</i>
3. For FAA Use Only		

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

6. Conformity Statement					
A. Agency's Name and Address		B. Kind of Agency		C. Certificate No.	
<i>Charlotte Vaughn 2052 Airport Way Bellingham, WA. 98226</i>		<input checked="" type="checkbox"/> U.S. Certificated Mechanic	<input type="checkbox"/> Foreign Certificated Mechanic	<i>410218824</i>	
		<input type="checkbox"/> Certificated Repair Station	<input type="checkbox"/> Manufacturer		
		<input type="checkbox"/>	<input type="checkbox"/>		
		<input type="checkbox"/>	<input type="checkbox"/>		

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>4/21/97</i>	Signature of Authorized Individual <i>Charlotte Vaughn</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	<input checked="" type="checkbox"/> Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station	Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection <i>4/21/97</i>		Certificate or Designation No. <i>410218824</i>		Signature of Authorized Individual <i>Charlotte Vaughn</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 BRACKETT AIR FILTER ASSY. BA-5110 Rev. H.

INSTALLATION PERFORMED IN ACCORDANCE WITH
STC #5AN16L PER INSTALLATION INSTRUCTIONS.

WEIGHT AND BALANCE NEG'L.

Equipment list revised.

END

Additional Sheets Are Attached

BRACKETT AIR FILTERS

INSTRUCTIONS

ASSEMBLY PART NO. BA-5110

APPROVED ON AIRCRAFT MODELS: SEE FAA APPROVED APPLICABILITY LIST.

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

Your new polyurethane air filter has been designed to provide maximum dustcollecting efficiency, non-restrictive air flow and economical element replacement while maintaining a lightweight filter. The element has been treated with a special treatment called a wetted agent and is approximately 98% efficient. The special wetted agent is the secret to the efficiency of capturing dust and repelling water. In addition the element has received a fire retardant treatment. For the above reasons, replace the element each 100 hours/12 months or when 50% covered with foreign material. DO NOT WASH AND REUSE.

INSTALLATION INSTRUCTIONS

- Step 1. Remove existing filter and gasket from carburetor heat box and discard.
- Step 2. Inspect heat box for condition making sure valve shaft and bushing is not worn. If unairworthy, repair with kit or replace worn carburetor heat box.
- Step 3. Snip or file off cam lock stops. These may be worn or broken off already.
- Step 4. Attach filter frame to carburetor heat box with 4 ea. screws, nuts and 8 ea. washers, one on each side(furnished). Torque each nut to where the gasket is compressed to 1/2 of its original thickness.
- Step 5. Install filter element PN BA-6108 into frame, making sure the taper of element is the same as the taper of the frame and contact is being made on all sides.
- Step 6. Install grill with the 2 short screws AN526-832-6 and lockwashers. Place the grill so the grill is pressed against the element. The smooth part of the tabs will be facing forward.
- Step 7. NOTE: After initial installation of filter assembly fill out FAA form 337 for return to service. On future replacement of parts this form will not be required.

SERVICING: Under normal conditions, replace filter element, P.N. BA-6108, after 100 hours use or 1 year intervals. Under severely dusty conditions, check daily and replace when element is 50% covered with foreign material. For Continued Airworthiness, see I-194 Document.

Instruction Sheet
Part No. BA-5105
Date: Rev. 5-8-95

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



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

Number SA71GL

This certificate, issued to Brackett Aircraft Company, Inc.
7045 Flightline Drive
Kingman, Arizona 86401

certifies that the change in the type design for the following product with the limitations and conditions
therefor as specified herein meets the airworthiness requirements of Part * of the *
Regulations

Original Product — Type Certificate Number: * See attached FAA Approved Model List (AML)
Make: * No. SA71GL for list of approved aircraft
Model: * models and applicable airworthiness regulations.

Description of Type Design Change: Installation of air filters in accordance with AML No. SA71GL,
dated April 17, 1995, or later FAA approved revision.

Limitations and Conditions: Approval of this change in type design applies to the above aircraft
model(s) only. This approval should not be extended to aircraft of this model on which other
previously approved modifications are incorporated unless it is determined that the interrelationship
between this change and any of those other previously approved modifications will introduce no
adverse effect upon the airworthiness of that aircraft. A copy of this Certificate and FAA Approved
Model List (AML) No. SA71GL dated April 17, 1995, or later FAA approved revision must
be maintained as part of the permanent records for the modified aircraft.

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

Date of application: January 9, 1975

Date awarded: March 3, 1983

Date of issuance: February 21, 1975

Date amended: April 17, 1995

By direction of the Administrator


(Signature)

Manager, Propulsion Branch
Los Angeles Aircraft Certification Office
(Title)

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

This certificate may be transferred in accordance with FAR 21.47.

FAA APPROVED MODEL LIST (AML) NO. SA71GL
 BRACKETT AIRCRAFT CO., INC.
 FOR
 INSTALLING AIR FILTERS

Issue Date: April 17, 1995

ITEM	AIR FILTER MODEL NUMBER	TOP DRAWING NUMBER	REVISION & DATE	AIRCRAFT MAKE	AIRCRAFT MODEL	ORIGINAL TYPE CERTIFICATE NUMBER	CERT. BASIS	AML AMENDMENT DATE
34	BA-5110	BA-5110	H 5/5/95	Cessna Reims Aviation	170/AB 172/AB/CC/DE/EF/G/H/K/L/M M-18C (Cessna) F172D/E/F/G/H/K/L/M	A799 3A12 A-803 A4EU	CAR 3 CAR 3 CAR 3 CAR 10	7/12/95 7/12/95 7/12/95 7/12/95
						*** END OF DATA ***		
35	BA-5110A	BA-5110A	D 5/5/95	Cessna Reims Aviation	172N, P (Cessna) F172N, P	3A12 A4EU	CAR 3 CAR 10	7/12/95 7/12/95
						*** END OF DATA ***		
36	BA-5210	BA-5210	NC 7/22/88	Cessna	T303	A34CE	FAR 23	-----
						*** END OF DATA ***		
37	BA-5710	BA-5710	C 6/3/88	Cessna Reims Aviation	177/AB 177RG (Cessna) F177RG	A13CE A20CE A26EU	FAR 23 FAR 23 FAR 23	----- ----- -----
						*** END OF DATA		



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
SEA-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>Cessna</i>	Model <i>172M</i>
	Serial No. <i>172165054</i>	Nationality and Registration Mark <i>24 1997 N64160 APPROVED</i>
2. Owner	Name (As shown on registration certificate) <i>Campbell, Jim D. Campbell, SHARON C.</i>	Address (As shown on registration certificate) <i>1914 King St Bellingham, WA 98225</i>

<p>3. For FAA Use Only THE AIRCRAFT 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.</p> <p><i>4/18/97 + Charles H. Cason</i></p>					
Date <i>4/18/97</i>		FAA Inspector NM-FSDO-01		4. Unit Identification	
Unit	Make	Model	Serial No.	5. Type	
AIRFRAME	<i>.....(As described in Item 1 above).....</i>			Repair	Alteration
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

6. Conformity Statement					
A. Agency's Name and Address <i>CHARLOTTE VITASHE</i> <i>2052 Airport Way</i> <i>Bellingham, WA 98224</i>		B. Kind of Agency		C. Certificate No.	
<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>410218824</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>4/18/97</i>	Signature of Authorized Individual <i>Markie Vaugh</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 <i>4/18/97</i>		Certificate or Designation No. <i>410218824</i>		Signature of Authorized Individual <i>Markie Vaugh</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 AFTEX ECT 110-4 FOR AFTEX ECT
Installation and Operational Manual
Document # 570-1015 Rev. D. Section 3.

All work done in accordance with FAR-AC 43.13-2A
Chapters 1 through 3, 11 and 13. All wiring installed
in accordance with 43.13-1A.

Weight and Balance Negl.

Equipment list revised.

END

Summers
Collected

 MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)				Form Approved OMB No. 2120-0020 For FAA Use Only Office Identification: 100-201094 <i>FD-302 (Rev. 10-74)</i>	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereto) 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	Model			
	CESSNA	172 M			
	Serial No.	Nationality and Registration Mark			
	172 65054	N64160			
2. Owner	Name (As shown on registration certificate)	Address (As shown on registration certificate)			
	JOHN T MADDEN DIANNE L MADDEN	8225 SE 24th MERCER ISLAND WA 98040			
3. For FAA Use Only					
4. Unit Identification					
5. Type					
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	(As described in Item 1 above)				
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				
6. Conformity Statement					
A. Agency's Name and Address RONALD T WORRELL 7529 OLD HIWAY 99 SE OLYMPIA WA 98501		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. AP 536726276	
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				
1-3-94	<i>Ronald T. Worrell</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 1-3-94		Certificate or Designation No. 1A 1373551	Signature of Authorized Individual <i>Cal A. Pearson</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.)

REPAIRS ASSOCIATED WITH NOSE GEAR COLLAPSE:

- ① FUSALAGE (ALL REPLACEMENT PARTS NEW OR SERVICEABLE USED): REPLACED: LOWER FIREWALL ASSY. AND RELATED STIFFENERS, FWD BELLY SKIN AND RELATED RIBS & STRINGERS BACK TO FUS STA 20.5, UPPER AND LOWER NOSE GEAR SUPPORT FITTINGS, FRONT TUNNEL AND RELATED STIFFENERS AND BRACKETS, UPPER AND LOWER ENGINE MOUNT STRINGERS, RUDDER "BAR" WELD ASSYS. AND RELATED BRAKE LINKAGE AND BEARINGS, ENGINE MOUNT, AND ALL LOWER COWL SKINS.
- ② (R) WING TIP: REPLACED UPPER SKIN W\$ 190.0 TO W\$ 208.0 (TIP), STRINGER SPLICES UPPER AND LOWER O.B. OF W\$ 172.0 AS NEEDED (1 PER STRINGER), LF. REPLACED W\$ 202.0 TO W\$ 208.0
- ③ (R) AILERON: INSTALL NEW SPAR AND O.B. RIB
- ④ (R) ELEVATOR: INSTALL NEW SPAR
- ⑤ INSPECT PAINTED A/C AND CHECK BALANCE OF ALL CONTROL SURFACES - ALL WITHIN LIMITS
- ALL REPAIRS, REPLACEMENTS, AND RIVETING ARE AS ORIGINAL AND/OR YAW APPLICABLE PARTS OF AC43.13-1A CH 2 SEC 3 AND/OR APPLICABLE PARTS OF MANUFACTURERS REPAIR SECTION OF SERVICE MANUAL.

END

Additional Sheets Are Attached

U.S.G.P.O. 1990-761-753

SW4
C&C

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)				Form Approved OMB No. 2120-0020	
				For FAA Use Only	
				Office Identification See T-500	
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	Model		17241	
	Serial No.	Nationality and Registration Mark		N64160	
2. Owner	Name (As shown on registration certificate)		Address (As shown on registration certificate)		
	JOHN T MADDEN DIANNE L MADDEN		8225 SE 24th MERCER ISLAND WA 98040		
3. For FAA Use Only					
4. Unit Identification					
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	(As described in Item 1 above)				
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				
6. Conformity Statement					
A. Agency's Name and Address		B. Kind of Agency	C. Certificate No.		
RONALD T WORRELL 7529 OLD HIWAY 99 SE OLYMPIA WA 98501		<input checked="" type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer	AP S36726276		
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				
1-3-94	Ronald T. Worrell				
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 Fil. Standards Inspector	Manufacturer	<input checked="" type="checkbox"/> Inspection Authorization <input type="checkbox"/> Person Approved by Transport Canada Airworthiness Group	Other (Specify)	
	FAA Designee	Repair Station			
Date of Approval or Rejection	Certificate or Designation No. 1A 1373551		Signature of Authorized Individual	E. M. Deana	
FAA Form 337 (12-88)					

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.)

INSTALL OPTIONAL SYSTEMS: PRECISE FLIGHT PULSE-LIGHT MODEL 1210-2405-2A CONTROL UNIT AND
INSTALL LIGHTS IN RMD A/C LIGHTING WINGTIPS
KIT# RMD-001100-C UNDER AUTHORITY OF STC
SA4005 NM (OPTION 1) AND STC SA4337 NM IAW
INSTALLATION INSTRUCTIONS INCLUDED IN
RMD KIT AND IAW INSTRUCTIONS FOR PRECISE
FLIGHT KIT # PPR1-3000RH. A/C W&B AND
EQUIPMENT LIST UPDATED. "PULSE" FUNCTION
OF THIS SYSTEM FOUND TO BE WITHIN
CONTINUOUS LOAD (ELECTRICAL) LIMITS OF A/C
SYSTEM. END

Additional Sheets Are Attached

U.S.G.P.O. 1990-761-753

1. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				RECEIVED	Form Approved Docket Bureau No. 04-R060-1	
MAJOR REPAIR AND ALTERATION JUN 30 1989 (Airframe, Powerplant, Propeller, or Appliance)				FOR FAA USE ONLY		
				OFFICE IDENTIFICATION		
				NM-FSDO-01		
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		MODEL			
	Cessna		172M			
SERIAL NO.	17265054		NATIONALITY AND REGISTRATION MARK N64160			
2. OWNER	NAME (As shown on registration certificate)		ADDRESS (As shown on registration certificate)			
	John T. Madden		8225 S.E. 24th Mercer Island, WA 98040			
3. FOR FAA USE ONLY						
4. UNIT IDENTIFICATION						
UNIT	MAKE	MODEL	SERIAL NO.	5. TYPE		
AIRFRAME	~~~~~ (As described in item 1 above)~~~~~			REPAIR	ALTERATION X	
POWERPLANT						
PROPELLER						
APPLIANCE	TYPE					
	MANUFACTURER					
6. CONFORMITY STATEMENT						
A. AGENCY'S NAME AND ADDRESS		B. KIND OF AGENCY		C. CERTIFICATE NO.		
Benair Aviation, Inc. 300 Airport Way REnton, WA 98055		U.S. CERTIFIED MECHANIC FOREIGN CERTIFIED MECHANIC <input checked="" type="checkbox"/> CERTIFIED REPAIR STATION MANUFACTURER		S61-86 Airframe		
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 <i>Stu M. Clark</i>					
6-28-89						
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 PLT. STANDARDS INSPECTOR <input type="checkbox"/> FAA DESIGNEE <input checked="" type="checkbox"/>	MANUFACTURER	INSPECTION AUTHORIZATION	OTHER (Specify)		
			CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT			
DATE OF APPROVAL OR REJECTION	CERTIFICATE OR DESIGNATION NO.	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Stu M. Clark</i>				
6-28-89	S61-86					

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 in aircraft 1 ea. TransCal Industries model D120-P2-T in space provided by airframe manufacturer. Plumbed unit to static system. Wired unit to existing transponder. All work was done I.A.W. manufactures install instructions. And AC43-13-1A chapter 11 and 16, AC43-13-2A chapter 2 and 11. Altimeter Static system and transponder were tested and found to comply with requirements set forth under FAR 91.171 and 91.172.

Power wires routed through circuit breaker.

Electrical load calculated and found to be acceptable.

Weight and balance change negligible.

Compass calibration checked.

END

ADDITIONAL SHEETS ARE ATTACHED

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATIONForm Approved
Budget Bureau No. 04-2060.1MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

FOR FAIR USE ONLY

MAR 29 1979

OFFICE IDENTIFICATION

NW FS20-61

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43-11 (or subsequent revision thereof) for instructions and disposition of this form.

1. AIRCRAFT	MAKE SERIAL NO.	MODEL 172M
2. OWNER	NAME (As shown on registration certificate) Skycraft, Inc.	NATIONALITY AND REGISTRATION MARK USA NC4160 ADDRESS (As shown on registration certificate) 3465 Perimeter Road Seattle, Washington 98108
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				

A. AGENCY'S NAME AND ADDRESS Washington Aircraft, Inc. 7201½ Perimeter Road Boeing Field Seattle, Washington 98108		B. KIND OF AGENCY U.S. CERTIFIED MECHANIC FOREIGN CERTIFIED MECHANIC CERTIFIED REPAIR STATION MANUFACTURER		C. CERTIFICATE NO. RCOS 4402 Radio Class I & II Instrument Autopilot	
--	--	--	--	--	--

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 3-23-79	SIGNATURE OF AUTHORIZED INDIVIDUAL John S. Channing		
-----------------	--	--	--

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	REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT
DATE OF APPROVAL OR REJECTION 3-23-79	CERTIFICATE OR DESIGNATION NO. RCOS 4402	SIGNATURE OF AUTHORIZED INDIVIDUAL John S. Channing	

FAA Form 337 (7-67)

(8320)

NOTICE

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

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

Equipment removed: EX-160 Nav/Com system
KS-505 Power supply
KI-211 Nav indicator
TR-661A Transponder

Equipment Installed: KMA-20 Audio Panel
KX-170 Nav/Com transceiver 2 ea.
KI-214 Nav indicator
KI-201 Nav indicator
KR-85 ADF receiver
KI-225 ADF indicator
KT-78 Transponder

Installation accomplished in accordance with King installation data and FAA AC43.13-1A chap. 11, 13 & 15, and AC43.13-2 chap. 2 & 3.

All power wires provided with proper value circuit breakers.

Electrical load calculated and found to be within aircraft limits.

Aircraft log book entries made.

Equipment list and weight & balance records revised accordingly.

----- END -----

ADDITIONAL SHEETS ARE ATTACHED

★1975-G.P.O.-1703-M/673-900/175

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
N64160	Cessna 172M	17265054	Normal & Utility
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 designed and found to conform to the type certificate therefor, to be in condition for safe operation, and has been shown to conform to the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation, except as noted herein. Exemptions:			
NONE			
6. TERMS AND CONDITIONS Unless sooner surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator, this airworthiness certificate is valid so long as the maintenance, preventative maintenance, and alterations are performed in accordance with Parts 39, 43, and 91 of the Federal Aviation Regulations, as appropriate, and the aircraft is registered in the United States Civil Register.			
DATE OF ISSUANCE	FAA APPROVING OFFICER	DESIGNATION NUMBER	
4-3-75	By 	PC4	

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.

FAA Form 8100-2 (7-67) FORMERLY FAA FORM 1362

GOVT. PRINT. OFF. 1967 O-270 931

FAA AIRCRAFT REGISTRY
CAMERA NO. / DATE: 3 - 4 - 86

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. AIRCRAFT MARK N6416C	2. AIRCRAFT BUILDER'S NAME (Check) Cessna	3. AIRCRAFT MODEL DESIGNATION 172M	4. YR. MFG. 1975	FAA CODING 2872418		
5. AIRCRAFT SERIAL NO. 17265054		6. ENGINE BUILDER'S NAME (Check) Lycoming	7. ENGINE MODEL DESIGNATION O-320-E2D	8. PROPELLER BUILDER'S NAME (Check) McCauley		9. PROPELLER MODEL DESIGNATION 1C160/DTM7553		10. AIRCRAFT IS 11. AIRCRAFT IS IMPORT
12. NUMBER OF ENGINES One								
APPLICATION IS HEREBY MADE FOR: (Check applicable items)								
<input checked="" type="checkbox"/> STANDARD AIRWORTHINESS CERT. (Indicate category) <input checked="" type="checkbox"/> NORMAL <input type="checkbox"/> UTILITY <input type="checkbox"/> AEROBATIC <input type="checkbox"/> TRANSPORT <input type="checkbox"/> GLIDER <input type="checkbox"/> BALLOON								
B. SPECIAL AIRWORTHINESS CERTIFICATE (Check appropriate items)								
<input checked="" type="checkbox"/> LIMITED								
1. PROVISIONAL (Indicate class) <input type="checkbox"/> CLASS I <input type="checkbox"/> CLASS II								
2. RESTRICTED (Indicate operation(s) to be conducted) <input type="checkbox"/> AGRICULTURE & PEST CONTROL <input type="checkbox"/> 1 <input type="checkbox"/> AERIAL SURVEYING <input type="checkbox"/> 2 <input type="checkbox"/> AERIAL ADVERTISING <input type="checkbox"/> 3								
3. EXPERIMENTAL (Indicate operation(s) to be conducted) <input type="checkbox"/> FOREST (Wild life control) <input type="checkbox"/> 4 <input type="checkbox"/> PATROLLING <input type="checkbox"/> 5 <input type="checkbox"/> WEATHER CONTROL <input type="checkbox"/> 6								
4. SPECIAL FLIGHT PERMIT (Indicate operation(s) to be conducted over airports Section VII or VIII or as applicable to remote areas) <input type="checkbox"/> OTHER (Specify) <input type="checkbox"/> RESEARCH AND DEVELOPMENT <input type="checkbox"/> 1 <input type="checkbox"/> AMATEUR BUILT <input type="checkbox"/> 2 <input type="checkbox"/> EXHIBITION <input type="checkbox"/> 3								
5. DELIVERING OR EXPORT <input type="checkbox"/> RACING <input type="checkbox"/> 4 <input type="checkbox"/> CREW TRAINING <input type="checkbox"/> 5 <input type="checkbox"/> MKT. SURVEY <input type="checkbox"/> 6								
6. FERRY FLIGHT FOR REPAIRS, ALTERATIONS, MAINTENANCE OR STORAGE <input type="checkbox"/> TO SHOW COMPLIANCE WITH FAR <input type="checkbox"/> 1								
7. EVACUATE FROM AREA OF IMPENDING DANGER <input type="checkbox"/> 2								
8. OPERATION IN EXCESS OF MAX. CERTIFIED TAKE-OFF WEIGHT <input type="checkbox"/> 3								
9. DELIVERING OR EXPORT <input type="checkbox"/> PRODUCTION FLIGHT TESTING <input type="checkbox"/> 4								
C. MULTIPLE AIRWORTHINESS CERTIFICATE (Check appropriate Restricted Operation and Standard or Limited as applicable above)								
A. REGISTERED OWNER (As shown on Certificate of Aircraft Registration)				IF DEALER, CHECK HERE <input checked="" type="checkbox"/> X				
NAME Cessna Aircraft Company				ADDRESS 5800 East Pawnee Road Wichita, Kansas 67201				
B. AIRCRAFT CERTIFICATION BASIS (Check applicable blocks and complete items as indicated)								
<input checked="" type="checkbox"/> AIRCRAFT SPECIFICATION OR TYPE CERTIFICATION DATA SHEET (GCR No. 3A12 Rev. 37)				AIRWORTHINESS DIRECTIVES (Check if all applicable AD's complied with and give last AD No.) <input type="checkbox"/> 75-05				
AIRCRAFT LISTING (Check applicable)				SUPPLEMENTAL TYPE CERTIFICATE (List number of each STC incorporated)				
C. AIRCRAFT OPERATION AND MAINTENANCE RECORDS								
<input checked="" type="checkbox"/> COMPLIANCE WITH FAR 21.173		TOTAL AIRFRAME HOURS—		1.5		3. EXPERIMENTAL ONLY—Enter hours 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 3-14-75		NAME AND TITLE (Print or Type) Malcolm Harned, Vice President		SIGNATURE <i>Malcolm Harned</i>				
A. THE AIRCRAFT DESCRIBED ABOVE HAS BEEN INSPECTED AND FOUND AIRWORTHY BY: (Complete this section only if FAR 21.183 (d) applied)								
2. FAR PART 121 OR 127 CERTIFICATE HOLDER (GCR Certificate No.)		3. CERTIFIED MECHANIC (GCR Certificate No.)		6. CERTIFIED REPAIR STATION (GCR Certificate No.)				
B. AIRCRAFT MANUFACTURER (GCR 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 checked="" 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 4-3-75		DISTRICT OFFICE ICT EMDC 3-0-43		DEAVER'S SIGNATURE AND NO. Cessna Aircraft Co., Wichita, Kansas Deaver, 44-1000, 1000, 1000, 1000 By <i>L. P. Schaefer</i>		FAA INSPECTOR'S SIGNATURE		

EAA

SW-GADO-7

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATIONMAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

INSTRUCTIONS: Print or type all entries. See FAR 43-2, FAR 43 Appendix B, and AC43.8-1 (or subsequent revision thereof) for authority and disposition of this form.

LUBBOCK, TEXAS

1. AIRCRAFT		MAKE	MODEL	Form Approved Budget Item No. 164-011-1 FOR FAA USE ONLY OFFICE IDENTIFICATION (00000) 23-01	
		Cessna	172 Skyhawk		
2. OWNER		SERIAL NO.	NATIONALITY AND REGISTRATION MARK		
		17255058	N64160		
3. FOR FAA USE ONLY					
4. UNIT IDENTIFICATION					
UNIT	MAKE	MODEL	SERIAL NO.	5. TYPE	
AIRFRAME	***** (As described in item 1 above) *****			I	
POWERPLANT					
PROPELLER					
APPLIANCE	TYPE				
A. AGENCY'S NAME AND ADDRESS		B. KIND OF AGENCY		C. CERTIFICATE NO.	
Arthur D. Mitchell Route one Plainview, Texas 79072		<input checked="" type="checkbox"/> U.S. CERTIFICATED MECHANIC <input type="checkbox"/> FOREIGN CERTIFICATED MECHANIC <input type="checkbox"/> CERTIFICATED REPAIR STATION <input type="checkbox"/> MANUFACTURER		2140786	
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 Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.					
DATE		SIGNATURE OF AUTHORIZED INDIVIDUAL			
March 24, 1977		Arthur D. Mitchell			
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		
3/24/77		2140786	Arthur D. Mitchell		

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 the following Narco Radio Equip.: DME -190, ADF -140, COMIIIB, CP -125, AT50A, NavII, AR 500, MBT12, ADF Loop & Cable, and MXR. Beacon Ant.

Installed Bendix TR 661A Xponder in accordance with Bendix Installation instructions and applicable paragraphs of A.C. 43.13 - 1A&2 and A.C. 43.6. Xponder installed in existing radio racks. Bench test and in Aircraft ok. are both good.

Updated weight and balance this date and equipment list.

-The End-

ADDITIONAL SHEETS ARE ATTACHED

★1975-G.P.O.-1703-M/673-200 175