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 **2019000184**

For FAA Use Only

Electronically Submitted 337

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	Serial No.	
N 161KT	1144	
Make	**Model**	**Series**
CIRRUS DESIGN CORP	SR20	

2. Owner

Name *(As shown on registration certificate)*	Address *(As shown on registration certificate)*
TROWER CHARLES T	Address PO BOX 530
	City SCOBEY State MT
	Zip 592630530 Country UNITED STATES

3. For FAA Use Only

Inspector Signature _____

Authorization Number _____

Designee Signature _____

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

6. Conformity Statement

A. Agency's Name and Address	B. Kind of Agency	
Name Park Rapids Avionics Inc.	☐ U. S. Certificated Mechanic	☐ Manufacturer
Address 301 Airport Road	☐ Foreign Certificated Mechanic	C. Certificate No.
City Park Rapids State MN	☒ Certificated Repair Station	K15R981Y
Zip 56470 Country UNITED STATES	☐ Certificated Maintenance Organization	

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

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

Signature/Date of Authorized Individual

Thomas J Hass

Digitally signed by Thomas J Hass
Date: 2019.03.12 11:08:13 -05'00'

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	☐	Inspection Authorization		Other *(Specify)*

Certificate or Designation No.
K15R981Y

Signature/Date of Authorized Individual

Thomas J Hass

Digitally signed by Thomas J Hass
Date: 2019.03.12 11:09:20 -05'00'

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.)***

N161KT	03/12/2019
Nationality and Registration Mark	Date

Removed the following equipment:
a. ARNAV Systems ICDS 2000 MFD
b. Garmin GTX-327 Transponder
c. ACK A30 Encoder

Installed the following equipment:
a. Garmin GTX-345 Transponder p/n 011-03302-00
b. Garmin GAE-12 Altitude Encoder p/n 011-03080-01

Installed Garmin GTX-345 Transponder and Garmin GAE-12 Altitude Encoder in accordance with manufactures installation manual p/n 190-00734-10 Rev. 11 and STC # SA01714WI .

Installed equipment in accordance with AC 43.13-2B chapters 3,11, 2, sections 201,202,203,204,205,206, 207, 208,209, and 210, and reference to AC 43.13-1B chapters 4,7,11 and 12.

The continuous electrical load does not exceed 80% of the total alternators capacity.

All equipment was functional tested per manufactures installation manuals and interference tested with existing systems.

The installed ADS-B OUT system was shown to meet the equipment performance requirements of 14 CFR section 91.227.

A copy of the Garmin GTX-345 FAA approved flight manual supplement p/n 190-00734-15 Rev. 3 has been added to the FAA approved flight manual.

Computed new weight and balance and updated equipment list.

ICA's see Garmin Document p/n 190-00734-11 Rev.6 (GTX).

☐ Additional Sheets Are Attached

1. Approving Civil Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130–3, AIRWORTHINESS APPROVAL TAG	157802459-1
4. Organization Name and Address:	GARMIN International 1200 E. 151st St. Olathe, KS 66062 Certificate Number PT3742CE	5. Work Order/Contract/Invoice Number: 157802459

6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1	GTX345,Standard Kit	010-01216-01 Includes 011-03302-00	1	3EG026014	New

12. Remarks:
Airworthiness Approval
TSO C112e

13a. Certifies the items identified above were manufactured in conformity to:

- ☒ Approved design data and are in a condition for safe operation.
- ☐ Non-approved design data specified in Block 12.

14a. ☐ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 12

Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

13b. Authorized Signature:	13c. Approval/Authorization No.:	14b. Authorized Signature:	14c. Approval/Certificate No.:
Alice F. Inch	ODA-240087-CE		
13d. Name (Typed or Printed):	**13e. Date (dd/mmm/yyyy):**	**14d. Name (Typed or Printed):**	**14e. Date (dd/mmm/yyyy):**
Alice F. Inch	25/Feb/2019		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

U.S. Department of Transportation
Federal Aviation Administration

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

Form Approved
OMB No.2120-0020

For FAA Use Only

Office Identification

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed $1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

1. Aircraft	Make: Cirrus	Model: SR20
	Serial No.: 1144	Nationality and Registration Mark
2. Owner	Name (As shown on registration certificate): GRAMYK KEVIN	Address (As shown on registration certificate): 2010 GILES WAY EL DORADO HILLS CA 95762-7661

3. For FAA Use Only

4. Unit Identification / **5. Type**

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

6. Conformity Statement

A. Agency's Name and Address	B. Kind of Agency	C. Certificate No.
Woodland Aviation Inc P.O. Box 1157 Woodland CA, 95766	[ ] U.S. Certificated Mechanic [ ] Foreign Certificated Mechanic [X] Certificated Repair Station [ ] Manufacturer	AWKR 298C AF-1,3 RAD 1,2,3 L-PP,L-PRP,L-INS

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
9/26/2003	Shawn Matthies

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							Other *(Specify)*
	[ ]	FAA Flt. Standards Inspector	[ ]	Manufacturer	[ ]	Inspection Authorization	
	[ ]	FAA Designee	[X]	Repair Station	[ ]	Person Appoved by Transport Canada Airworthiness Group	

Date of Approval or Rejection	Certificate or Designation No.	Signature of Authorized Individual
9/26/2003	AWKR298C	Shawn Matthies

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.)

Installed M-20 Oil Separators Inc. air oil separator under STC# SA02033AT in accordance with Assembly Drawing 304 rev. E rev. 5/22/02. Instructions for continued airworthiness listed in the installation instructions, filed with the aircraft logbooks. Change in wieght and balance negligible.

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

☐ Additional Sheets Are Attatched

1. Approving National Aviation Authority/Country:	2. **AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	3. Form Tracking Number.:
FAA/United States		SAME AS BLOCK 5

4. Organization Name and Address	5. Work Order/Contract/Invoice Number:
Teledyne Continental Motors PC #508 P.O. Box 90 Mobile, Alabama 36601	P44629

6. Item	7. Description	8. Part Number:	9. Eligibility:*
1	ALTERNATOR	653344A1	LTSI0360KB
10. Quantity	**11. Serial/Batch Number**	**12. Status/Work:**	
1	H-230207	NEW	

13. Remarks

14. *Certifies the items identified above were manufactured in conformity to:*

[XX] Approved design data and are in a condition for safe operation.

[ ] Non-approved design data specified in Block 13.

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XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
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15. Authorized Signature	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate Number:
John R. Miller	DMIR#CE-142042	XXXXXXXXXXXXXXXXX	XXXXXXXXX
17. Name (Typed or Printed)	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
John R. Miller	09/16/2003	XXXXXXXXXXXXXXXXX	XXXXXXXXX

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in block 1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.