



US Department
of Transportation
Federal Aviation
Administration

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

OMB No. 2120-0020
Exp: 6/30/2018

Electronic Tracking Number

For FAA Use Only

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

1. Aircraft	Nationality and Registration Mark N4891K	Serial No. NAV-4-1891	
	Make Ryan Navion	Model A	Series
2. Owner	Name (As shown on registration certificate) Stites, Charles H		Address (As shown on registration certificate)
	Address		
	City		State NC
	Zip		Country USA

3. For FAA Use Only

The data/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 Part 43, SECTION 43.7.

FSDO-GSO
District Office

01-11-2018
Date

[Signature]
Signature of FAA Inspector

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	Ryan Navion	(As described in item 1 above)	NAV-4-1891
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type Manufacture		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency	
Name	DANIEL L. REMBACH	<input checked="" type="checkbox"/> U. S. Certificated Mechanic	Manufacturer
Address	701 R.D. SULLIVAN RD.	<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.
City	SANFORD	<input type="checkbox"/> Certified Repair Station	
Zip	27330	<input type="checkbox"/> Certified Maintenance Organization	308767165
Country	USA		

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> 2/16/2018
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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	Persons Approved by Canadian Department of Transport
	FAA Designee	Repair Station	<input checked="" type="checkbox"/> Inspection Authorization	
Certificate or Designation No. 308767165		Signature/Date of Authorized Individual <i>[Signature]</i> 2/16/2018		

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.)

N4891K

Nationality and Registration Mark

Date

1. Description:

Replaced existing OEM landing light bulbs with Aero-Lites LED Landing Light assembly, Part # PAR36L202. IAW the Aero-Lites Installation Instructions, Doc. ALII-002 Rev. 1-5 Dated 10/17. Used existing OEM landing light circuit, which consists of a 20 amp circuit breaker/switch that is appropriately placarded. All circuit wiring was determined appropriate per AC 43.13-1 B Chapter 11, Section 5 & 6. Power and ground wires were terminated to new LED lamps with vendor-supplied MS51957-23 machine screws and MS35333-71 lock washers. The new LED landing lights were installed in the OEM landing light fixtures with original hardware without any modifications. Replaced the existing OEM NAV Lamps with Aero-Lites Stellar Series LED Replacement Aircraft NAV Position Lamps, Model 9SMD-NAV-RGW, Left Part # LED7512-R, Right Part # LED7512-G, and Tail Part # LEDBA15S, IAW the Aero-Lites Installation Instructions Doc. ALII-002 Rev. 1-0 Dated 5/17. Used existing OEM NAV light circuit, which consists of a 10 amp circuit breaker switch that is appropriately placarded that is appropriately placarded. The new LED NAV lamps were installed in the OEM NAV lamp fixtures with original hardware without any modifications. All circuit wiring was determined appropriate per AC 43.13-1 B Chapter 11, Section 5 & 6. Post installation test were found to meet all lighting requirements as published in the Civil Aviation Regulations: CAR 3.700-CAR 3.703.

2. Control & Operating Information: No change
 3. Servicing Information: Approved Ryan Navion A Service Manual
 4. Maintenance Instructions: Approved Ryan Navion Service Manual. Aero-Lites Installation Instructions. AC 43.13-1 B Chapter 11.
 5. Troubleshooting Information: Aero-Lites Installation Instructions.
 6. Removal and Replacement: Approved Navion A Service Manual.
 7. Diagrams: Aero-Lites Installation Instructions.
 8. Special Instructions: None Apply.
 9. Application of Protective Treatment: None Apply.
 10. Data: Approved Navion A Service Manual. Aero-Lites Installation Instructions.
 11. List of Special Tools: None Apply.
 12. Commuter Category Aircraft: Not Applicable.
 13. Recommended Overhaul Interval: No limitation. Replaceable on condition.
 14. Airworthiness Limitations: No additional Airworthiness Limitations.
 15. Revision: Required revisions are to be submitted to the local FAA Flight Standards Office in writing, including the referenced Form 337 and proposed changes to be made.
 16. The above modification was found not to interfere with other installed systems and/or modifications and does not exceed 80% of generator output. No adverse interference to radios and navigation systems from RFI was found while testing the LED landing and taxi lights in both the ON and OFF configuration.
 17. Change to Weight and Balance is negligible. Equipment list was revised.
- ***** NOTHING FOLLOWS *****

☐ Additional Sheets Are Attached