



US Department of Transportation  
Federal Aviation Administration

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

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

Electronic Tracking Number

For FAA Use Only

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

<b>1. Aircraft</b>	Nationality and Registration Mark <b>N79546</b>	Serial No. <b>17258165</b>	
	Make <b>CESSNA</b>	Model <b>172</b>	Series <b>K</b>
<b>2. Owner</b>	Name (As shown on registration certificate) <b>DIAKONIS EMMANUEL W</b>		Address (As shown on registration certificate)
			Address <b>PO BOX 8771</b>
			City <b>MAUMEE</b> State <b>OHIO</b>
			Zip <b>43537</b> Country <b>USA</b>

### 3. For FAA Use Only

"The technical data identified herein has been found to comply with the applicable airworthiness requirements and is hereby approved for use only on the above described aircraft, subject to conformity inspection by a person authorized in FAR Section 43.7

*Oct 10, 2017*  
DATE

*[Signature]*  
FAA INSPECTOR, GL25

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	<u>CESSNA</u>	<i>(As described in Item 1 above)</i>	<u>17258165</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	<b>EMMANUEL W. DIAKONIS</b>		<input checked="" type="checkbox"/>	U. S. Certificated Mechanic	Manufacturer
Address	<b>6852 SHOOTERS HILL RD.</b>		<input type="checkbox"/>	Foreign Certificated Mechanic	C. Certificate No.  <b>3170659</b>
City	<b>TOLEDO</b>	State <b>OHIO</b>	<input type="checkbox"/>	Certificated Repair Station	
Zip	<b>43617</b>	Country <b>USA</b>	<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
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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. <b>3170659</b>	Signature/Date of Authorized Individual
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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.)

N79546

6/10/2017

Nationality and Registration Mark

Date

1. Description:

Replaced existing OEM landing and Taxi light bulbs with Aero-Lites LED Landing Light assembly, Part # PAR36L201, and Taxi Light assembly Part # PAR36TR1, IAW the Aero-Lites Installation Instructions, Doc. ALII-001 Rev. 1-4 Dated 6/16. Used existing OEM landing light circuit, which consists of a 20 amp S1360-20 circuit breaker that is appropriately placarded and On/OFF switch that is appropriately placarded. All circuit wiring was determined appropriate per AC 43.13-1B 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 and taxi lights were installed in the OEM landing and taxi 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 S1360-10 circuit breaker that is appropriately placarded and On/OFF switch 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 43.13-1B 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 Cessna 172 Service Manual

4. Maintenance Instructions: Approved Cessna 172 Service Manual. Aero-Lites Installation Instructions. AC 43.13-1B Chapter 11.

5. Troubleshooting Information: Aero-Lites Installation Instructions.

6. Removal and Replacement: Approved Cessna 172 Service Manual.

7. Diagrams: Aero-Lites Installation Instructions.

8. Special Instructions: None Apply.

9. Application of Protective Treatment: None Apply.

10. Data: Approved Cessna 172 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