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US Department
of Transportation
Federal Aviation
Administration

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

B. Description of Work Accomplished (If more space is required, attach additional sheets.	Identify with aircraft nationality and registration mark and da	te work completed.)
	Socata	TB-21
	N12WZ	24 October 2016
	Nationality and Registration Mark	Date

Installation of AeroLED Landing/Taxi, Nav/Strobe and Recognition lights.

- A. Landing and Taxi Lights Installation
- Removed OEM installed incandescent Landing and Taxi lights.
- 2. Mounted AeroLED Landing and Taxi LED bulbs into original housings using all original hardware and wiring. P/N's 01-1030-4587(Taxi) and 01-1030-4596(Landing) both FAA PMA. Original circuit breakers were retained with original markings. Lights were aimed as per originals and in accordance with Socata Maintenance Manual. Lights were installed in accordance with AeroLED installation guide 0019-0004 and AC43.13-1B.
- 3. Weight differential negligable.
- 4. Instructions for continued Airworthineness are contained in the AeroLED installation guide, document number 0019-0004.
  - B. Nav/Position/Strobe Light Installation
- 1. Removed OEM installed Whelen Light Assembly from both left and right wing tip.
- 2. Mounted AeroLED Nav/Position/Strobe assembly into the original locations using all original hardware and wiring. P/N's 11-1100-R and 11-1100-L both FAA PMA. Lights were installed in accordance with AeroLED Installation guide 0011-0005 Rev A and AC43.13-1B. Removed Strobe Power supply from aircraft and connected wires as specified in installation guide 011-0005 Rev A.
- 3. Weight and Balance modification due to power supply removal.
- 4. Instructions for continued Airworthineness are contained in the AeroLED installation guide, document number 0011-0005 Rev A.
  - C. Recognition Lights Installation
- 1. Removed OEM installed Whelen light assembly from both left and right forward wing tip.
- 2. Mounted AeroLED MicroSun into original locations using AeroLED mounting kit 800-101-PA46-L mounting bracket and original wiring. P/N 01-1170-A. Lights were installed in accordance with AeroLED installation guide 0104-0003 and AC43.13-1B.
- 3. Weight differential negligable.
- 4. Instructions for continued Airworthineness are contained in the AeroLED installation guide, document number 0104-0003 Rev A.

This modification was found to not interfere with any other system, or equipment and does not exceed 80% of Alternator output. RFI output was found to not interfere with radios or avionics.

All modifications are to be maintained IAW Socata TB-21 Maintenance Manual & AC43.13-1B, CH 11, Sec8.

Aircraft Weight and Balance / Equipment list revised.

Additional Shee	ets Are Attached
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# ICA for AeroLED Recognition Light Installation

# N12WZ Socata TB-21 S/N: 2206

- Introduction: Replaced existing Wing Mounted Recognition light assembly with AeroLED Microsun light assembly in both left and right wings.
- 2. Description: Replaced existing recognition light assembly with new AeroLED's MicroSun light assembly, PN 01-1170. Mounted in original location using AeroLED mounting kit 800-101-PA46-L The recognition lights are operated with the existing light control circuit and switches and is protected with an existing breaker located on the main breaker panel in the aircraft. All existing wiring was used. All wires have been connected as per the AeroLED installation Guide. Installation was performed IAW AeroLED's installation guide, 0104-0003 Rev: A, Socata TB-21 Maintenance Manual, AC43.13-1B and FAA form 337 Dated October 24, 2016. Installation was tested and found to meet all lighting requirements found in CAR 3.700 through CAR 3.703 including light angles, intensity, color and wiring. Aircraft bus voltage is 28 volts.
- 3. Control and Operation: No Change
- 4. Servicing Information: Socata TB 21 Maintenance Manual
- 5. Maintenance Instructions: Socata TB 21 Maintenance Manual, AeroLED Installation Guide, AC43.12-1B Ch.11
- 6. Troubleshooting Information: Not Applicable
- 7. Removal and Replacement Information Socata TB 21 Maintenance Manual
- 8. Diagrams: AeroLED Installation Guide and Socata TB 21 Wiring diagram.
- 9. Special Instructions: None.
- 10. Application of Protective Treatments: None
- 11. Data: AeroLED Installation Guide and Socata TB 21 Wiring Diagrams
- 12. List of Special Tools: None.
- 13. Commuter Category Aircraft: Non Applicable
- 14. Recommended Overhaul Periods: Not Applicable
- 15. Airworthiness Limitations: None.
- 16. Revision: If a revision is required, the revision will be submitted to the local FAA FSDO in writing including the referenced FAA Form 337 and proposed changes to said document.
- 17. Weight and Balance: Changes negligible.

# ICA for AeroLED Landing And Taxi Light Installation

# N12WZ Socata TB-21 S/N: 2206

- 1. Introduction: Replaced existing Wing Mounted Taxi / Landing light bulb with AeroLED SunSpot 36 4596 and 4587 LED Landing Light Bulbs
- 2. Description: Replaced existing incandescent taxi/landing light bulb with new AeroLED's Sunspot Landing and Taxi lights. The Existing mounting bracket was used. The lights are operated with the existing Taxi / Landing light control circuit and switches and is protected with an existing breaker located on the main breaker panel in the aircraft. All existing wiring was used. The new bulbs produce an acceptable and improved level of light for night operations and ground taxi operations. Installation was performed IAW AeroLED's installation guide, 0019-004 Rev: IR, Socata TB-21 Maintenance Manual, AC43.13-1B and FAA form 337 Dated October 24, 2016.
- 3. Control and Operation: No Change
- 4. Servicing Information: Socata TB 21 Maintenance Manual
- Maintenance Instructions: Socata TB 21 Maintenance Manual, AeroLED Installation Guide, AC43.12-1B Ch.11
- 6. Troubleshooting Information: Not Applicable
- 7. Removal and Replacement Information Socata TB 21 Maintenance Manual
- 8. Diagrams: AeroLED Installation Guide and Socata TB 21 Wiring diagram.
- 9. Special Instructions: None.
- 10. Application of Protective Treatments: None
- 11. Data: AeroLED Installation Guide and Socata TB 21 Wiring Diagrams
- 12. List of Special Tools: None.
- 13. Commuter Category Aircraft: Non Applicable
- 14. Recommended Overhaul Periods: Not Applicable
- 15. Airworthiness Limitations: None.
- 16. Revision: If a revision is required, the revision will be submitted to the local FAA FSDO in writing including the referenced FAA Form 337 and proposed changes.
- 17. Weight and Balance: Changes negligible.

N12WZ Socata TB-21 S/N: 2206

- 1. Introduction: Replaced existing Wing Mounted Nav/Strobe/Position light assembly with AeroLED Pulsar Nav/Strobe/Position light assembly in both left and right wings.
- 2. Description: Replaced existing incandescent and Xenon Nav/Strobe/Position light assembly with new AeroLED's Pulsar Nav/Strobe/Position light assembly. The new light assembly requires installation of a new mounting assembly. The NAV lights are operated with the existing light control circuit and switches and is protected with an existing breaker located on the main breaker panel in the aircraft. The Strobe lights are operated with the existing light control circuit and switches and is protected with an existing breaker located on the main breaker panel in the aircraft. All existing wiring was used. All wires have been connected as per the AeroLED installation Guide. The Strobe power supply is no longer required and was removed. Installation was performed IAW AeroLED's installation guide, 0011-0005 Rev: A, Socata TB-21 Maintenance Manual, AC43.13-1B and FAA form 337 Dated October 24, 2016.
  Installation was tested and found to meet all lighting requirements found in CAR 3.700 through CAR 3.703 including light angles, intensity, color and wiring. Aircraft bus voltage is 28 volts.
- 3. Control and Operation: No Change
- 4. Servicing Information: Socata TB 21 Maintenance Manual
- 5. Maintenance Instructions: Socata TB 21 Maintenance Manual, AeroLED Installation Guide, AC43.12-1B Ch.11
- 6. Troubleshooting Information: Not Applicable
- 7. Removal and Replacement Information Socata TB 21 Maintenance Manual
- 8. Diagrams: AeroLED Installation Guide and Socata TB 21 Wiring diagram.
- 9. Special Instructions: None.
- 10. Application of Protective Treatments: None
- 11. Data: AeroLED Installation Guide and Socata TB 21 Wiring Diagrams
- 12. List of Special Tools: None.
- 13. Commuter Category Aircraft: Non Applicable
- 14. Recommended Overhaul Periods: Not Applicable
- 15. Airworthiness Limitations: None.
- 16. Revision: If a revision is required, the revision will be submitted to the local FAA FSDO in writing including the referenced FAA Form 337 and proposed changes to said document.
- 17. Weight and Balance: Weight and Balance amendment required.

Manufactured under TSO by: AeroLEDs LLC 8475 West Elisa St. Boise, ID 83709 (208) 859-1603

Distributed by AeroLEDs LLC: Phone: (208) 850-3294 www.aeroleds.com sales@aeroleds.com

Installation Guide: AeroLEDs Pulsar P/N 11-1100-( )-( ) Pulsar

The first -() indicates the mounting location, with -L being the left (red) and -R being the right (green) mounting location. The second -() indicates minor changes

**LED Position and** Anti-Collision Lights



The conditions and tests required for TSO approval of this article are minimum performance standards. It is the responsibility of those installing this article either on or within a specific type or class of aircraft to determine that the aircraft installation conditions are within the TSO standards. TSO articles must have separate approval for installation in aircraft. The article may be installed only if performed under 14 CFR part 43 or the applicable airworthiness requirements.

# TSO C-30c Type I, Type II, and Type III and TSO C-96a Class II approved

Deviations: Tested to DO-160E instead of DO-160B as called out in TSO-C-30c and TSO C-96a

# **Operating Instructions:**

Below current values are for each individual light:

Operational Voltage: Position Input Current: 14 & 28 Volt Systems

Strobe Average Current: 0.8A at 14V, 0.4A at 28V

0.4A at 14V, 0.2A at 28V

Strobe Peak Current:

2.5A at 28V for 0.2 seconds

5.0A at 14V for 0.2 seconds

# **EQUIPMENT LIMITATIONS:**

# All aircraft:

Mounting bracket p/n 01-1109 must be used to install the lights to the mounting surface to provide the required crossside cutoff for the red and green position lights as shown in the diagram on page 3.

# Aircraft for which type certificate was applied for after April 1, 1957 to August 11,1971:

The anti-collision system must produce a minimum of 100 effective candelas in Aviation Red or White, 360° around the vertical axis, 30° above and below the horizontal plane.

# Aircraft for which type certificate was applied for after August 11, 1971:

The anti-collision system must produce a minimum of 400 effective candelas in Aviation Red or White, 360° around the vertical axis, 30° above and below the horizontal plane.

# Rotorcraft for which type certificate was applied for after February 5, 1976:

The anti-collision system must produce a minimum of 150 effective candelas in Aviation Red, 360° around the vertical axis, 30° above and below the horizontal plane.

# CONTINUED AIRWORTHINESS:

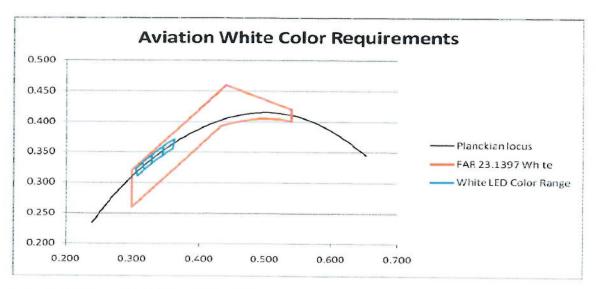
The Pulsar LED navigation and anticollision light assembly is designed with 4 forward navigation LEDs, 2 rear position LEDs, and 18 LEDs mounted beneath the anticollision lens. Should any one LED fail, the unit must be repaired or replaced. View LEDs with welding goggles for eye safety.

# INSTALLATION PROCEDURES:

- The installation procedure described in the following text is for a single light installation, but the procedure is identical for multiple light installations. Ensure that the proper part number, left (-L) or right (-R) is installed on the correct side of the aircraft.
- Print out the installation template (the page 3 of this document), however be sure to set up the printer driver to NOT use Page

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- Scaling so the printer will replicate the template to the proper 1:1 scale, otherwise the template will be too small. The proper scaling can be verified by placing the included Mounting Bracket over the printout to ensure a 1:1 fit.
- By design, the Mounting Bracket locks into the product body.
- Print the template as described above and confirm a 1:1 scaling of the printout.
- Attach the template to the wingtip (mounting) position and mark the screw and wire hole locations.
- 6. Mount the bracket using three 6-32 100 degree countersunk screws. Ensure that the mounting bracket is grounded to structure via the mounting screws. If necessary, route a ground strap from one mounting screw to structure ground or terminate the ground shield from the shielded wire bundle to a mounting screw. Proper chassis ground is required for protection from direct lightning effects.
- 7. Connect the red wire to switched power for the position lights, connect the yellow wire to switched power for the strobe lights, connect the black wire to the same structure ground used to ground the mount, and connect the green wire to the synchronization wire from the other installed light(s). It is recommended that the attached wiring diagram be followed for minimum RFI. WARNING: Do not connect the strobe power wire to a Xenon strobe power pack. This can damage the light and voids the warranty.
- Attach the light to the mounting bracket and anchor in place with the 8-32 hex head set screw (provided) that inserts into the rear of the light.
- Check all avionics systems for interference from this installation.
- 10. A flight check should be performed by a properly certified pilot.
- Update aircraft records, complete Form 337 and obtain FAA field approval for installation, or install per approved STC or TC.

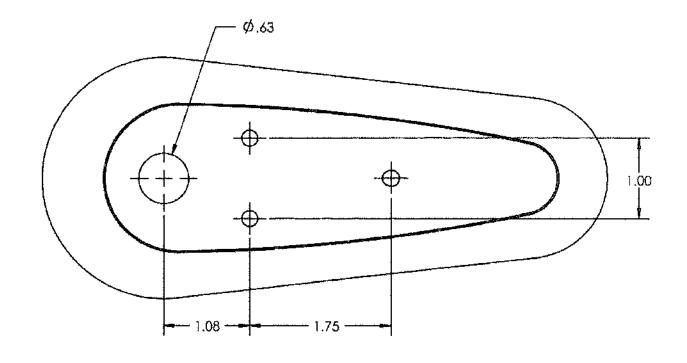


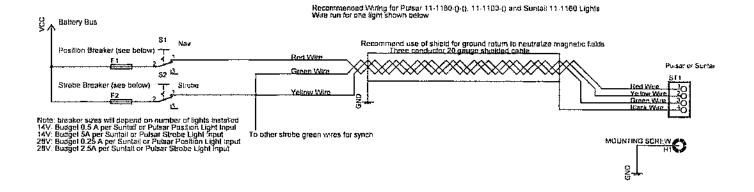
Red Position Light Chromaticity (typical): x=0.695, y=0.303

Green Position Light Chromaticity (typical): x=0.081, y=0.469

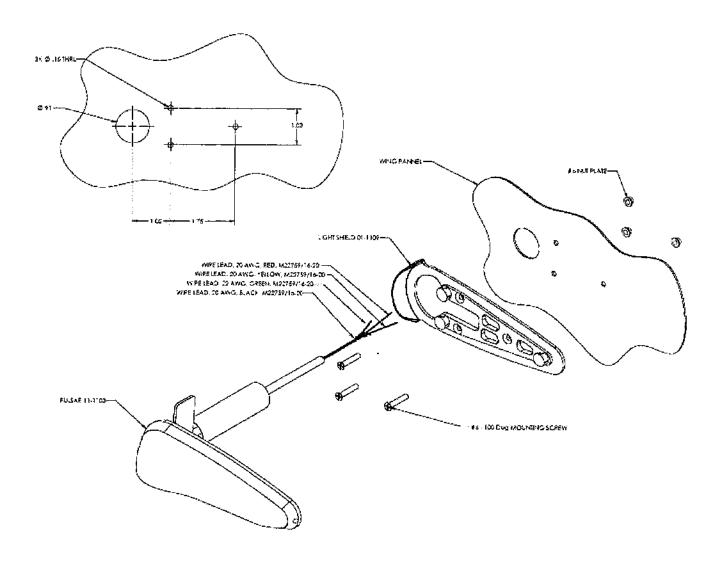
DO-160E Section	Compliance Level
4	F2
5	F2
6	С
8	U
9	Н
10	S
11	F
12	D
14	S
15	A
16	Z
17	Α
18	Z
19	ZC
20	RR
21	М
22	A2E2

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Document 0019-0004 AeroLEDs LLC 8475 W. Elisa St. Boise, ID 83709 Phone: (208) 850-3294

www.aeroleds.com sales@aeroleds.com Installation Guide: Sunspot 36 4596 and 4587 P/N 01-1030-4596 or P/N 01-1030-4587 LED Landing or Taxi light



# Operating Instructions:

Operational Voltage: 28 Volt Systems

Input Current: 3.5A at 28V

# **EQUIPMENT LIMITATIONS:**

Mount in approved PAR36 bulb holder with circuit breaker or fuse appropriate for rated current. For retrofit installation existing circuit breaker or fuse can typically be used. The procedures contained herein are not intended to conflict with the procedures set forth by aircraft and engine manufacturers, nor do they supersede the FAA approved manuals and FAA regulations. If necessary, consult AC 43.13-1B for guidance on acceptable methods, techniques, and practices.

# AIRWORTHINESS LIMITATIONS:

The Airworthiness Limitations section is FAA approved and specifies maintenance required under Secs. 43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved. There are no new (or additional) airworthiness limitations associated with this equipment and/or installation.

The Sunspot 36 LED landing or taxi light assembly is designed with 15 high power LEDs mounted behind a lens. The lights contain no user repairable items; should more than two LEDs fail, the unit must be replaced.

Interval	Description	Notes
50 hr. after initial installation	<ul> <li>Perform function check on all light(s)</li> <li>Replace components as required</li> </ul>	Landing and taxi lights are not field repairable and should be sent to manufacturer for repair/replacement if defective
100 hr. after initial installation	<ul> <li>Perform function check on landing light(s) / replace unit if defective</li> <li>Inspect mounting for security</li> <li>Inspect all connectors for good engagement</li> <li>Replace components as required</li> </ul>	Landing and taxi lights are not field repairable and should be sent to manufacturer for repair/replacement if defective
Annually	SAME AS 100 HOUR	Landing and taxi lights are not field repairable and should be sent to manufacturer for repair/replacement if defective

**Troubleshooting:** Check for bus voltage at power input wire to the light, reestablish power if inadequate power is found. Check for excessive resistance at light ground and repair if necessary. Remove and bench check light if wiring is verified good.

# INSTALLATION PROCEDURES:

- The installation procedure described in the following text is for a single light installation, and multiple light installations. Wiring diagrams are provided for single light installations, typically existing wire and switches and breakers will be utilized.
- Refer to the aircraft manufacturer's service manual and/or illustrated parts catalog: Locate the landing and/or taxi light system installed in your aircraft. This will provide details on the location of the components and the assembly details.
- 3. WARNING: If the aircraft being modified incorporates a remote sensor (flux gate) compass: DO NOT mount the LED light within 24 inches of the remote compass components. After installation of the LED lighting system, a compass swing MUST be performed with the landing/taxi lights ON & OFF and the position error card must be annotated accordingly.
- WARNING: DO NOT mount the LED light with less than 4 inches clearance to exhaust system components unless an adequate heat shield is utilized to block radiant heat.
- 5. WARNING: On all aircraft that are being modified it is IMPORTANT to check the size of the power supply wire to the landing lights. Confirm that wire of sufficient wire gauge is installed for the wire length: 24 Volts: 16GA for up to 100 feet, 18GA for up to 80 feet, 20GA for up to 50 feet. If the aircraft power supply wire is undersize it MUST be removed and a new wire installed in its place. Reference: AC43.13-18 Paragraph 11-66(d) and Figure 11-2. Ensure appropriately rated breaker or fuse is used for the wire gauge.

# 6. REMOVAL:

 Prepare the aircraft for maintenance: Make sure all switches are in the OFF/NORMAL position, attach maintenance warning tags, pull landing/taxi light circuit breakers.

- Reference airframe manufacturers current maintenance manual to remove any light covers to gain access to lamp assembly(s) and bracket(s).
- c. Disconnect connection to positive aircraft power.
- d. Disconnect ground from aircraft power.
- Remove existing lamp(s) from brackets, mark and retain hardware.
- f. Record weight of removed lamps.

#### INSTALLATION:

- Reference airframe manufacturer's current maintenance manual and install LED light(s) in brackets using retained hardware.
- b. Connect the power and ground wires to the screw terminals using #6 ring terminals. The screw terminals are not polarized, so the power and ground can be connected to them in either order.
- c. Original landing light switch/switches may be used.
- d. Placard switches appropriately.
- Power up aircraft and verify proper operation of LED light(s).
- f. Using the appropriate aircraft maintenance manual, verify that the light angle has not changed, and is oriented & aimed in accordance with manufacturer's instructions.
- Perform EMI test to verify there is no interference caused by light installation.
- h. Reinstall any light cover(s) removed to gain access to lamp assembly(les) and bracket(s).
- Enter appropriate logbook entry detailing work, and if necessary fill out and submit appropriate form 337 for work accomplished.
- Perform an operational check of the landing/taxi light(s) in accordance with 14CFR 91.407 (b) and/or (c) to determine that the installed landing/taxi light(s) provide enough light for night operations in accordance with 14CFR 23.1383.
- Weight & balance change from standard position light assemblies to LED landing light assemblies is considered negligible.

DO-160E Section	Compliance Level
4	F2
5	S2
6	В
7	Α
8	U
9	Н
10	S
11	F
12	S
13	F
14	Т
15	Α
16	Z
17	A
18	Z
19	ZC
20	RR
21	Н
22	A3E3
24	С

# INSTALLATION INSTRUCTIONS REVISION RECORD SHEET

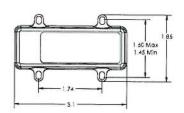
Revision Number	Effective Date	Inserted By	Page Numbers Revised
IR	06/30/2016	Dean Wilkinson	All

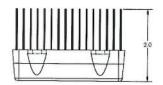


Document 0104-0003 AeroLEDs LLC 8475 W. Elisa Street Boise, Idaho 83709 Phone: (208) 850-3294

www.aeroleds.com sales@aeroleds.com Installation Guide:
Microsun
P/N 01-1170
LED light with
built-in pulse recognition mode







# Operating Instructions:

Operational Voltage: 14 & 28 Volt Systems Input Current: 1.5A at 14V, 0.75A at 28V

# **EQUIPMENT LIMITATIONS:**

Mount in bezel mounting plate with circuit breaker or fuse appropriate for rated current. The procedures contained herein are not intended to conflict with the procedures set forth by aircraft and engine manufacturers, nor do they supersede the FAA approved manuals and FAA regulations. If necessary, consult AC 43.13-1B for guidance on acceptable methods, techniques, and practices.

# **CONTINUED AIRWORTHINESS:**

The Microsun LED light assembly is designed with 3 high power LEDs mounted behind a lens. Should any one LED fail, the unit must be replaced.

Interval	Description	Notes
50 hr.	<ul> <li>Perform function check on landing light(s)</li> </ul>	Landing lights are not field repairable and should be sent to manufacturer for repair/replacement if defective

100 hr.	•	Perform function check on landing light(s) / replace unit if defective Inspect for discoloration of lens Inspect mounting for security Inspect all connectors for good engagement Inspect wiring for chaffing / defects	Landing lights are not field repairable and should be sent to manufacturer for repair/replacement if defective
Annually	•	Perform function check on landing light(s) / replace unit if defective	Landing lights are not field repairable and should be sent to manufacturer for repair/replacement if defective

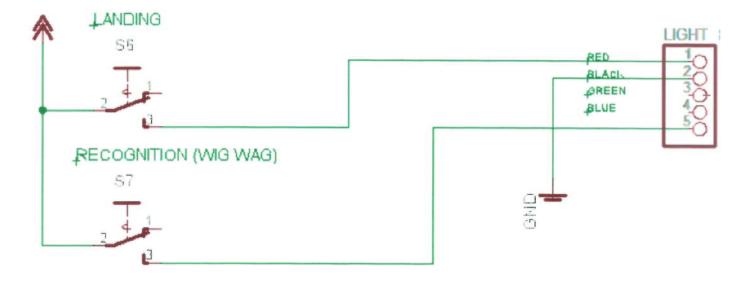
•	Inspect for discoloration of lens	
•	Inspect mounting for security	
•	Inspect all connectors for good engagement	
	Inspect wiring for chaffing / defects	

### INSTALLATION PROCEDURES:

- The installation procedure described in the following text is for a single light installation, but the procedure is identical for multiple light installations. The pulsing function of the light(s) is a selfcontained feature, and does not require the use of an externally mounted pulse light controller.
- Remove cowlings and/or landing light lens to gain access to light assemblies.

- Route wire (minimum 20 AWG) from switch location to LED light assemblies through wings and/or cowling, securing as needed using tie-wraps or equivalent means to secure wire bundles.
- Install suitable aircraft approved connecters to wires coming from landing light assemblies and wires routed from switch using wiring diagram shown on page 2.
- Install an appropriate aircraft approved switch and circuit breaker
  of correct rating for the lights installed for the pulse function.
  Original landing light switch/switches may be used, however, the
  circuit breakers are to be replaced with one(s) of appropriate
  rating for the lights installed.
- 6. Placard switches appropriately.
- Power up aircraft and verify proper operation of Microsun LED light, in both pulsing and steady functions (as appropriate to the installation)
- Using the appropriate aircraft maintenance manual, verify that the light angle has not changed, and is oriented & aimed in accordance with manufacturer's instructions.
- Perform EMI test to verify there is no interference caused by light installation.
- 10. Reinstall cowlings or lens covers as needed.
- Fill out and submit appropriate form 337 for work accomplished (unless installed under STC), and enter appropriate logbook entry detailing work for certified aircraft.
- 12. Weight & balance change from standard position light assemblies to LED landing light assemblies is considered negligible. However, if additional power supplies or pulse function controllers were removed at this time, the weight & balance is to reflect those changes, and actual weight and locations are to be used for calculating changes.

Figure 1
Wiring Diagram for single LED Microsun light



<u>Figure 2</u>
Wiring Diagram for dual LED Microsun lights

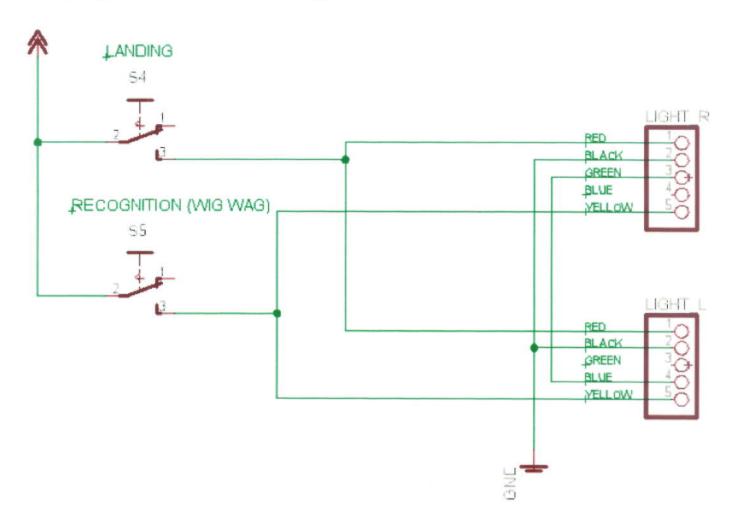
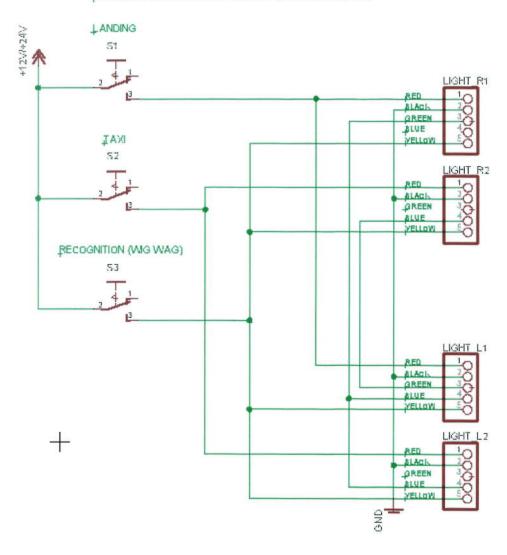


Figure 3
Wiring Diagram for four LED Microsun light assemblies

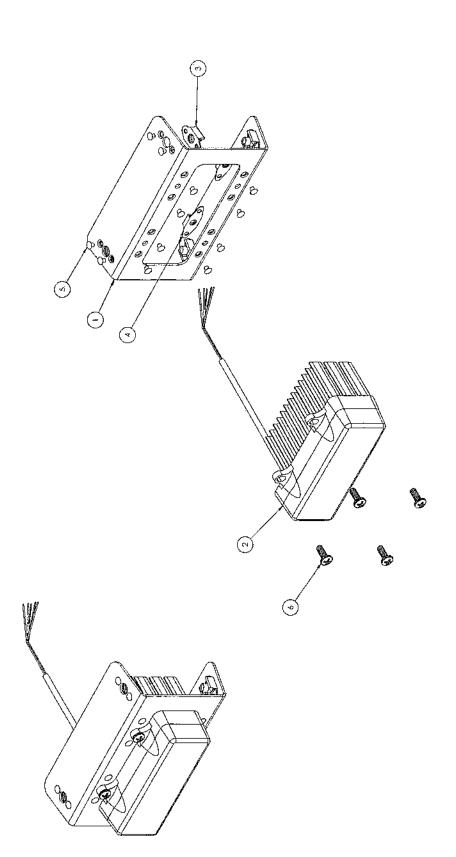
# SUGGESTED WIRING DIAGRAM FOR FOUR LIGHTS



DO-160E Section	Compliance Level
4	F2
5	F2
6	С
8	U
9	Н
10	S
11	F
12	D
13	F
14	S
15	A
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# INSTALLATION INSTRUCTIONS REVISION RECORD SHEET

Revision Number	Effective Date	Inserted By	Page Numbers Revised
IR	08/16/2012	Dean Wilkinson	All
A	10/07/2016	Dean Wilkinson	1



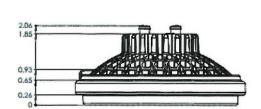
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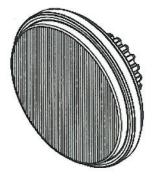
ΔĬ	-	_	4	4	2	4	<u></u> ₹Œ
Material	ALUM	ŀ	CARBON STEE HEAT TREATED	STEEL HARDENED	SOLID ALUM		DEDS c drawns 46-L 7-PA46-L
StockSize			#6-32	#6-32	3/32 DIA 3/16 LENGTH	#6-32	AERC ENGINERALM PA PA C 800-100
DESCRIPTION	PIPER BRACKET LEFT	MICROSUM	ANCHOR NUT	ANCHOR NUT	COUNTERSINK RIVET	SCREW, PH PH, 375 LENGTH	Agent Present 2018.  Agent Pre
PARTNUMBER	800-101-PA46-L	01-1170; MicroSun Surface Model	71N4D37Q	TIN40031	Malibu River	90272A146	The state of the s
NO.	_	£4	w :	7	5	9	The day work on J was taken of the control of the c

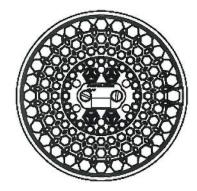


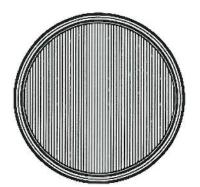
# Product Datasheet SunSpot 36-4587 Taxi Light

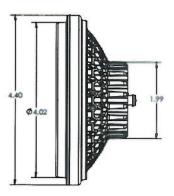
01-1030-4587











Voltage Range: 28 VDC

Current Draw at 28VDC: 3.5 Amps Max Power Consumption: 100 Watts Thermal Protection: Built In

Landing Lens Candela: 55,000+

Landing Beam Angle: 10x30 Degrees

Total LED Lumens: 6000+ LED Count: 15 Height: 4.4" Diameter (round)
Width: 4.4" Diameter (round)

Depth: 1.86" Weight: 10 Oz

Heat Sink Material: Black Powder Coated

Aluminum

Lens Material: Polycarbonate

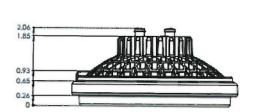
Lens Protection: UV Resistant Hard Coat
Clamp Mount: PAR 36 Ring Clamp

Rated Life: 50,000 Hours

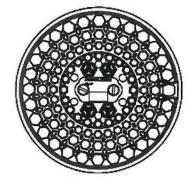


# Product Datasheet SunSpot 36-4596 Landing Light

01-1030-4596











Voltage Range: 28VDC

Current Draw at 28VDC: 3.5 Amps Max Power Consumption: 100 Watts Thermal Protection: Built In

Landing Lens Candela: 150,000+

Landing Beam Angle: 10 Degrees
Total LED Lumens: 6000+

LED Count: 15

Height: 4.4" Diameter (round)
Width: 4.4" Diameter (round)

Depth: 1.86" Weight: 10 Oz

Heat Sink Material: Black Powder Coated

Aluminum

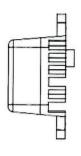
Lens Material: Polycarbonate

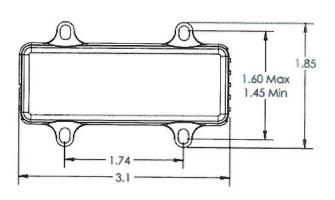
Lens Protection: UV Resistant Hard Coat
Clamp Mount: PAR 36 Ring Clamp

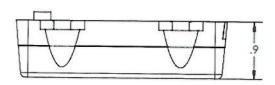
Rated Life: 50,000 Hours



# **Product Datasheet** MicroSun Taxi/Recognition Light 01-1170-A







Voltage Range: 9-36VDC

Current Draw at 14VDC: 1.5 Amps Max

Power Consumption: 21 Watts Max

Pulse Light Feature: Built In

Wig Wag Sync: Built In

Thermal Protection: Built In

Candela: 8,000+

Total LED Lumens: 1500+

Beam Angle: 30 Degrees

LED Count: 3

Height:

Width: 3.1"

Depth: 0.9"

Weight: 2.25 Oz

Heat Sink Material: Black Anodized Aluminum

1.2"

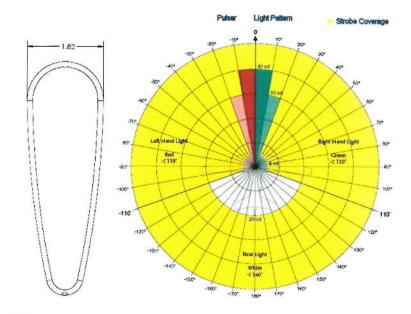
Lens Material: Polycarbonate

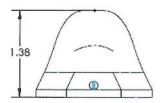
Screw Mount: 4x 6-32 Machine Screws

Rated Life: 50,000 Hours



# Product Datasheet Pulsar Nav/Position/Strobe Light 11-1100-()-() red and green





Voltage Range: 9-36VDC

Position Light Current: 0.4A:14V, 0.2A:28V

Strobe Peak Current: 5A:14V, 2.5A:28V for

0.19 seconds

Power Consumption: 17 Watts Avg

Strobe Power Supply: Built In

Strobe Synchronization: Built In Thermal Protection: Built In

Nav/Position Light: TSO C-30c Type I, Type

II, Type III

Strobe: TSO C-96a Class II

LED Count: 18

Length: 5.6" Width: 1.82" Depth: 1.38"

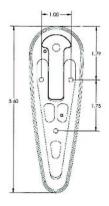
Weight: 4 Oz

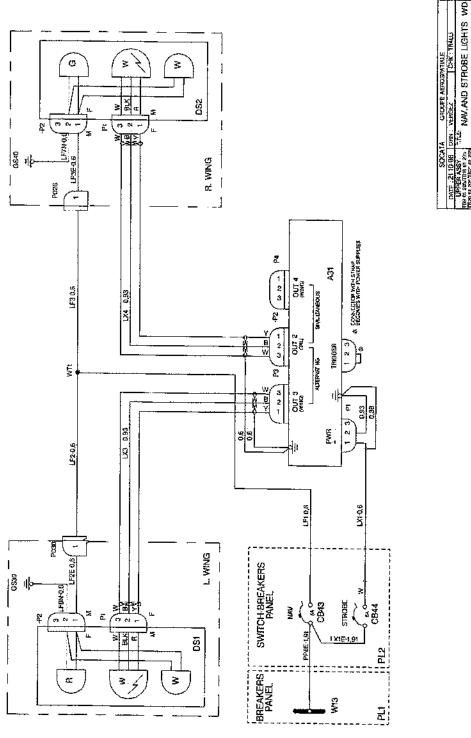
Heat Sink Material: Clear Anodized Aluminum

Lens Material: Polycarbonate

Screw Mount: 3x 6-32 Machine Screws

Rated Life: 50,000 Hours





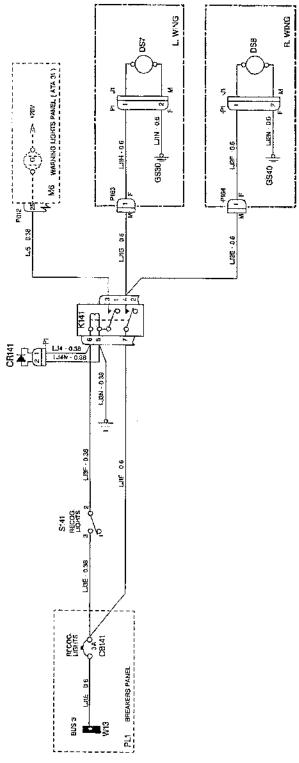
Feux de navigation Navigation lights

AFAD

Validité / Validity : Tous/All

33-00-06 (CE)

Page 2 OCT 01



Feux de reconnaissance Recognition lights

US Depart	amani	N	MAJOR REPAII	R ANI	o /	ALTERATIO	N		Form . OMB ! 2/28/2		Electronic Tracking Number For FAA Use Only
of Transpo Federal A Administr	ortation Aviation		me, Powerplan								PBF PAM USE ONLY
instructi	UCTIONS: Prin tions and dispos iolation. (49 U.S	isition of this	s form. This report	e 14 C is requ	FR	943.9, Pert 43 d by law (49 U.)	Appendix B S.C. §44701)	and / Fallur	AC 43.9 e to rep	)-1 (or subsport can res	sequent revision thereof) for sult in a civil penalty for each
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Repair	Alteration	Unit	-	Ma	ake	<u> </u>		Мо	odel		Serial No.
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204	KSBURG	untry USA	Elata MS		<u>_</u>	Certificated R					
D. I cert	tify that the repa	air and/or alt	teration made to th	ne unit(s	<u>{</u> s) k	dentified in item	aintenance Org 5 above and	docade	and an t	4262396 he reverse	ns attacked as a house
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				7. Apr	מינכ	val for Return	to Service *	-			· · · · · · · · · · · · · · · · · · ·
1 1		- Tildigi	persons specified Administration an	below. id is	th	le unit identifie	d in item 5 Approved	was	inspecte Rejecte	ed in the d	manner prescribed by the
, ,	FAA Fit. Standa	ards ,	Manufacturer	. ] ]	М	laintenance Org	anization		Person Depart	ns Approved ( tment of Trans	by Canadien sport
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FAA Form	71 337 (10-06)		10011/10	<u> </u>			10				12-12-09

# 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.

8. Description of Work Accomplished (If more space is required, attach additional sheets, identify with aircraft management of the space is required, attach additional sheets.	ationality and registration mark and da	te work completed.)
·	N9294N	12-12.00
	Nationality and Registration Mark	
Replaced existing Nose Landing Gear mounted taxi / Landing light. The existing mounting bracket is used. The ligh Switch & is circuit protected using the existing 15 Amp Taxi / with wingtip mounted Landing / Taxi lights. Existing wiring is u level of light for night landing & taxiing. Installation was perfor PA-32R -301 Maintenance Manual & FAA Form 337 dated 12 system & therefore uses a GE 4591 bulb. The GE 4591 is ide The AeroSun SunSpot is designed for input voltage of 9 volt to the modification was found to act interfere with account.	nt is operated through the existing Land Light Circuit Breaker. This used. The new bulb produces a rmed i/a/w AeroLEDs installation 2/08/08. Note: This aircraft utilizantical in size, shape, if & function 28.8 volt.	ing Taxi / Landing Light s aircraft is also equipped an acceptable, improved, on instructions, Piper zes a 24 volt electrical con as the 12 volt GE 4509
This modification was found to not interfere with any o alternator output. RFI output was found to not interfere with ra on this aircraft.	adios or avionics. Wig Mig.flash	ner:system is not installed
Modification is to be maintained i/a/w Piper PA-32R-30	)1 Maintenance Manuals & AC/	43.13-1B, Ch. 11, Sec. 8,
Aircraft Weight & Balance / Equipment List revised.		
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✓ Additional Shee	ala Ana Alfa-k-J	1

# ICA for AeroLEDs AeroSun LED Light Bulb Installation N9294N Piper PA-32R-301 s/n 3246104

1) Introduction:

Replaced existing Nose Landing Gear mounted Taxi / Landing Light bulb with AeroLEDs AeroSun SunSpot landing light bulb.

2) Description:

Replaced existing Nose Landing Gear mounted taxi / landing light bulb with new AeroLEDs AeroSun SunSpot Landing light. The existing mounting bracket is used. The light is operated through the existing Taxi / Landing Light Switch & is circuit protected using the existing 15 Amp Taxi / Land Light Circuit Breaker. This aircraft is also equipped with wingtip mounted Landing / Taxi lights. Existing wiring is used. The new bulb produces an acceptable, improved, level of light for night landing & taxiing. Installation was performed i/a/w AeroLEDs' installation instructions, Piper PA-32R -301 Maintenance Manual & FAA Form 337 dated 12/08/08. Note: This aircraft utilizes a 24 volt electrical system & therefore uses a GE 4591 bulb. The GE 4591 is identical in size, shape, fit & function as the 12 volt GE 4509. The AeroSun SunSpot is designed for input voltage of 9 volt to 28.8 volt.

- Control & Operation: No change,
- Servicing Information:
   Piper PA-32R-301 Maintenance Manuals.
- Maintenance Instructions: Piper PA-32R-301 Service / Maintenance Manuals, AC43.13-1B Ch. 11.
- Troubleshooting Information: Not Applicable,
- Removal & Replacement Information: Piper PA-32R-301 Maintenance Manuals.
- Diagrams: AeroSun Installation Instructions & Piper PA-32R-301 Wiring Diagrams.
- 9) Special Instructions: None.
- 10) Application of Protective Treatments: None.
- 11) Data: AeroSun Installation Instructions & Piper PA-32R-301 Wiring Diagrams.

- 12) List of Special Tools: None.
- 13) Commuter Category Aircraft: Not applicable.
- 14) Recommended Overhaul Periods: Not Applicable
- 15) Airworthiness Limitations: None.
- 16) Revision: If a revision is required, revision will be submitted to the local FAA FSDO in writing, including the referenced FAA Form 337 & proposed changes to said document.

US Department
of Transportation

# MAJOR REPAIR AND ALTERATION

(Airframe, Powerplant, Propeller, or Appliance) Federal Aviation Administration 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)) Serial No. Nationality and Registration Mark 480 N97GG 1. Aircraft Series Model PILATUS PC-7 Name (As shown on registration certificate) Address (As shown on registration certificate) 165 TESUQUE VILLAGE RD ASTRA 7 LLC 2. Owner City SANTA FE State NM 87506-0023 USA Country Zip 3. For FAA Use Only THE LIDENTIFIED 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° DATE 3/12/20 FAA INSPECTOR 5. Unit Identification 4. Type Repair Alteration Unit Make Model Serial No. PILATUS 480 (As described in Item 1 above) AIRFRAME **POWERPLANT** PROPELLER APPLIANCE Manufacturer 6. Conformity Statement A. Agency's Name and Address B. Kind of Agency NEIL A. WEAVER U. S. Certificated Mechanic Manufacturer Address 2600 COLLEGE PARIOWAY HANGAR 34 Foreign Certificated Mechanic C. Certificate No. NEVADA City CARSON CITY Certificated Repair Station 2036732 Country USA 89706 Zip 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. Signature/Date of Authorized Individual Extended range fuel per 14 CFR Part 43 App. B 12 MARCH 201 7. Approval for Return to Service Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is × Approved Rejected FAA Fit. Standards Persons Approved by Canadian Manufacturer Maintenance Organization Department of Transport Inspector BY Other (Specify) **FAA Designee** Repair Station Inspection Authorization Certificate or Signature/Date of Authorized Individual Designation No. 2036732 DAMPERZON NEW WENGER

# NOTICE

Weight and batance 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.

Ð. I.	9. Description of Vierts Accomplished (If more opens is required, attach additional choice. Identity with elected nationally and registration mark and data work completed.)  Physics PC7								
	N97GG		3 March 2014						
	Nationally and Registra	tion Mark	Date						
	Installation of AEROLEDs Landing and Taxi LED bulbs								
1.	Removed OEM installed incandescent Landing and Taxi light bulbs.								
2.	Mounted AEROLEDs Landing and Taxi LED bulbs into original housings using all ori P/N's 01-1030-L-A and 01-1030-H-A both FAA PMA. Original 5 Amp circuit breakers markings. Lights were aimed as per originals and per Pilatus Maintenance Manual No. an acceptable amount of light for night operations. AEROLEDs Installation Manual 00	were reta 01715. Th	ined with original is installation produces						
3.	Weight differential negligable.	•							
4.	Instructions for Continued Airworthiness are contained in AEROLEDs Installation Mar There are no repairs for bulbs.	mai No. 0	003-0004 Rev. C.,						
5.	This modification to be maintained/inspected IAW Pilatus Manual 01715 and AEROLI No. 0003-0004 Rev. C.	EDs Install	ation Manuai						
-	Nothing Follows	<del></del>							
	and a superior of the superior								
	en e								
	Additional Streets Am Attached								

# ICA CHECKLIST FOR FIELD APPROVAL

N97GG PILATUS PC-7 s/n 480

# ICA ITEM #

1. Introduction

Replaced existing landing and tool light builbs with AeroLEDs sun spot builbs. P/N D1-1030-L-A and D1-1030-H-A.

Description

Replaced existing landing and taxi light buibs with AeroLEDs sun spot bulbs. All original mounting hardware, mounts and Wiring were utilized. Original discult breakers (2) of 5 amps were retained as were original placards. All wiring is factory Installed. The lights are almed per originals. The installation produces an acceptable amount of light for night operations AeroLEDs installation manual 0003-0004 is attached.

Control & Operation Information

(Optional) 3 position switch to replace original landing light switch which will allow selection of Wig-Wag function Labeled OH-OFF-FLASHING. EATON MS24659-29A or equivalent. Installation was found not to interfere with any Other equipment and does not exceed 80% of electrical output. RFI output was tested on pulse and found not to Interfere with radios/avionics.

4. Servicing Information

Pilatus Aircraft PC-7 Maintenance Manual Document No. 01715 and AeroLEDs Document 0003-0004 Rev. C. or later.

5. Maintenance Instructions

Pilatus Aircraft PC-7 Maintenance Manual Document No. 01715 and AeroLEDs Document 0063-0004 Rev. □ or later, and AC43.13-B.

6. Trouble Shooting Information

Aerol.EDs installation outde 0003-0004 Rev C. or later.

Removal & Replacement

Pilatus maintenance manual # 01715.

8. <u>Diagrams</u>

AeroLeds installation Document 0003-0004 and Pilatus Wiring Manual No. 01718.

9. Special Instructions

Attached.

10. Application of Preventive Treatments

None.

11. Data

Pliatus Aircraft PC-7 Maintenance Manual No. 01715 and AeroLeds Document 0003-0004.

12. List of Special Tools.

None.

13. Commuter Category Aircraft

Not Applicable.

14. Recommended Overhaul Period

No additional overhaul time limitations.

15. Altworthiness limitations

None

16. Revision Revisions must be submitted to local FSDO with proposed changes.

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

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

Electronic Tracking Number

Federal	Transportation (Affiliative, Power plants, Properties, Or Appliance) For FAA Use Only Federal Aviation Administration										
and	INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act 1958)										
		Nationa	lity and R	egistra	ation Mark	6047E	3		Serial No.	34	047
1. Aircraft Make						Cessna			Model 182		Series
Name (As shown on registration certifity Rumfield, Scott G.									Address (As shown on Address 14800 Zirco		n certificate)
Rumfield, Scott S. Rumfield, Linda J.									city Anchorage	State AK	
Zip 99516-4335 Country United States										Country United States	
The technical data identified herein has been found to comply with applicable airworthiness requirements and is hereby approved for use only on the above described aircraft, subject to conformity inspection by a person authorized in § 43.7											
	4. Type							6. l	Init Identification		
Repa	air Alte	eration		Un	it		P	Vlake	Model		Serial Number
		$\boxtimes$	AIRFRAME						(As described in Item 1 above)		. Marie and the same and the sa
			POWER	RPLA	LANT						
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Name Address	David M 4201 FI					-		Foreign Certificate			Manufacturer Certificate No.
City	Anchora			_	State AK			Certificated Repa		$\neg$	0.400.470
Zip	99502				d States			100000000000000000000000000000000000000	enance Organization		3489472
h	ave been r	nade in a	accordanc	e with	on made to the the requirement to the best of r	ents of Pa	rt 43 (	ed in item 5 above of the U.S. Federal	and described on the re Aviation Regulations ar	verse or a nd that the	ttachments hereto information
	Extended range fuel Signature/Date of Authorized Individual per 14 CFR Part 43										
Pursu	ant to the	authority	given per	sons s	specified below		-	proval for Return	to Service nspected in the manner	prescribe	ed by the
					ministration ar				EJECTED	proceno	,
BY	Inspi	Fit Standector			Manufacturer			Maintenance Org			Person Approved by Canadian Department of Transport (Specify)
Certifica	ite or	Designe	e	Sign	Repair Stationature/Date of A		X Indiv	Inspection Authoridual	ization		
Designa	Designation No. 3489472 Pavid Walker 7-1-2010										

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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 essure continued conformity with the applicable airworthiness requirements.

8.	Description of	Work Accomplished		······································		
	(If more space i	nark and date work completed.)				
			N6047B	7-1-2010		
			Nationality and Registration Mark	Date		
	1.)	SunTail fail nav light assemblies, circuit breaker switch which is app 10 amp circuit breaker switch lock wiring & wires used meet criteria installation instructions and assertions are installed in the same location linstallation was tested and found.	I assemblies with AeroLED Pulsar NS ser The installed nav lights are circuit protect propriately placarded. The strobe light fun ated adjacent to the nav light switch, and found in AC 43.13-1B Chapter 11, section ciated wiring diagrams which are attached in as the original assemblies using mount to meet all lighting requirements found in poor and wiring. Aircraft bus voltage is 14	ted through the use of a 1 amp actions were wired in and use a is appropriately placarded. All in 5 & 6, and AeroLED's I. The new nav light assemblies is included with light assemblies. CAR 3,700 through CAR 3,703		
	2.)	Control & Operation Information No Change				
	3.)	Servicing Information Appropriate Cessna 182 maintena	ance manual			
	4.)	Maintenence instructions Appropriate Cessna 182 maintena AC 43.13-1B Chapter 11				
5.) <u>Troubleshooting Information</u> Not applicable						
6.) Removal & Replacement Information Appropriate Cessna 182 maintenance manual						
	7.)	<u>Diagrams</u> AeroLED installation instructions a				
	8.)	Special Instructions None	4 2			
	9.)	Application of Protective Treatmer None	<u>nts</u>			
	10.)	<u>Data</u> Appropriate Cessna 182 maintena AeroLED installation instructions 8	ance manual 3 wiring diagram			
	11.)	List of Special Tools None	, and the second			
	12.)	Commuter Category Aircraft Not applicable				
	13.)	Recommended Overhaul Periods No additional overhaul limitations				
	14.)	Airworthiness Limitations No additional airworthiness limitati	ions	•		
	15.)	including the referenced 337 and	to be submitted to the local FAA Flight S proposed changes to said document	_		
	16.)	The above installed modification want exceed 80% of alternator outpowith radios or avionics.	vas found to not interfere with any other s ut. RFI output on strobe function was test	ystems or equipment and does ed and found to not interfere		
	17.)		negligible and the equipment list was revi			
			END	T-00 T-0-1		
		□Ac	dditional Sheets Are Attached			