



Installation Instructions

Sunspot 64-4559 (01-2250-4559)



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Approval	Name	Intent	
Author	Jennifer Blanchfield	Installation Instructions for the Sunspot 64-4559 Par 64 landing light	
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REVISION RECORD

Rev	Description	Date	Author
C	Remove references to pulse capability and placarding; Modify system description; Rename document to reflect the exact part number.	09/01/2020	M. McCormack
B	Add Airworthiness Limitations section 4	08/10/2020	M. McCormack
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1 System Description

The SunSpot 64-4559 is a PAR 64 LED light assembly consisting of 60 LED's surface mounted to a printed circuit assembly. This PCA is attached to an aluminum housing/heatsink. Bonded to the heatsink and over the PCA is a transparent polycarbonate lens. The light is powered via two screw terminals located on the back of the aluminum housing.

2 Model Numbers

Model	Part Number	Description	Voltage (V)	Current (Amps)	Power (W)	Weight (oz)
SunSpot 64-4559	01-2250-4559	Landing	28	7.2	200	48

3 Instructions for Continued Airworthiness

Sunspot series LED landing light assembly contains no user serviceable items. Should any LED fail, unit may still function but it will do so at a reduced level of performance. The light must be replaced at the earliest opportunity.

Interval	Description
50 hr.	<ul style="list-style-type: none">• Perform functional check on landing light(s)• Replace components as required
100 hr.	<ul style="list-style-type: none">• Perform functional check on landing light(s)• Inspect for discoloration of lens• Inspect mounting for security• Inspect all connections to ensure good conductivity• Inspect wiring for chaffing / defects• Replace components as required
Annually	--SAME AS 100 HOUR--

4 Airworthiness Limitations

The Airworthiness Limitations section is FAA-approved and specifies maintenance required under Sec. 43.16 and 91.403 of the Federal Aviation Regulations, unless an alternative program has been FAA approved. There are no additional airworthiness limitations.

5 Installation

Consult **14CFR, §43.13-1B** for guidance on acceptable methods, techniques, and practices. Procedures contained herein are not intended to conflict with procedures set forth by aircraft OEM, nor do they supersede FAA approved manuals and FAA regulations.

5.1 Installation Procedures

1. Refer to aircraft manufacturer's service manual and/or illustrated parts catalog to identify landing light system installed in the aircraft. This will provide information on location of components and assembly details
2. Refer to the wiring diagram in Figure 6-1 for the correct wiring of this light. Note that the connection screw terminals are not polarity sensitive.
3. Remove light covers and access panels to lamp assembly and mounting bracket

4. Remove old light
5. Ensure that the SunSpot 64-4559 light will not be mounted less than 4-inches from exhaust system components unless adequate heat shielding is installed to block radiant heat.
6. Reference airframe manufacturer's maintenance manual and install LED light in brackets using existing hardware
7. Ensure alignment key is fitted to bracket
8. Install suitable aircraft approved connectors or splices to connect landing light assembly to wires routed from switch in accordance with wiring diagram in Figure 6-1
9. Screw terminals are not polarity sensitive
10. Verify proper operation of LED light(s)
11. Reinstall any remaining hardware in accordance with aircraft maintenance manual
12. Record installation in appropriate maintenance documents

Note: The use of shielded cable is recommended although not required for installation. It is recommended that ground connections for all lights be made at a single location on aircraft central ground bus. This "single point ground" scheme helps to eliminate ground loops and ground bounce that can occur when using airframe as a ground.

5.2 Troubleshooting

1. Check for proper voltage (28Vdc nominal) at power input screw terminal to light
2. Ensure light is adequately grounded at the screw terminal. The heatsink/housing is not connected to the internal circuitry and will not provide a ground return path for the light
3. Check for continuity in wiring and connections
4. If wiring is verified, remove light and bench-check with appropriately sized power supply

6 Wiring Diagram

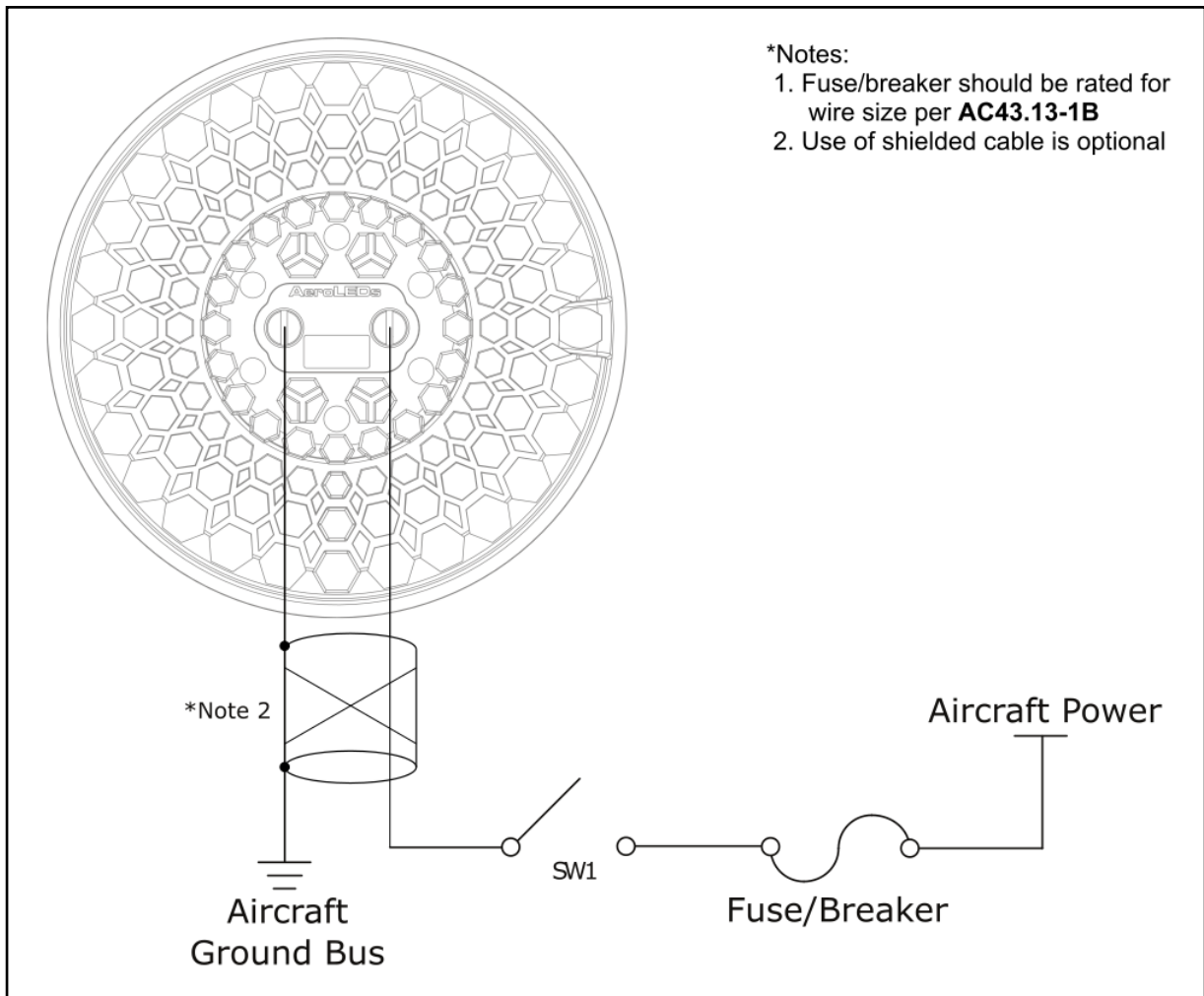


Figure 6-1 SunSpot 64-4559 Wiring Diagram