



# Installation Instructions

## Pulsar Series (Experimental)



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Approval	Name	Intent	
Author	Jennifer Blanchfield	Installation instructions for Experimental Pulsar light assemblies (01-1100)	
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# 1 System Description

The Pulsar N-Series LED lights offer the capability to have three functions in one unit: Navigation, Anti-Collision Strobe, and Position. These lights are designed for installation on any aircraft wingtip, aft stabilizer, or fuselage.

TSO-C30c TYPE I, II & III – APPROVED

TSO-C96a CLASS II – APPROVED

# 2 Model Numbers

Model	Part Number	Description	Voltage (V)	Current (Amps)			Power (W)	Weight (oz)
				Strobe		Nav		
				AVG	Peak			
Pulsar (12V) 01-1100-12	01-1100-12-L	Navigation, Position, Anti-collision	14	1.2	9.9	1.6	39.2	8
	01-1100-12-R							
Pulsar (24V) 01-1100-24	01-1100-24-L	Navigation, Position, Anti-collision	28	0.8	6.3	0.8	44.8	
	01-1100-24-R							

All listed specifications shown are per pair

# 3 Instructions for Continued Airworthiness

Pulsar light assemblies contains no user serviceable items. Should any LED fail, unit must be replaced.

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

## **4 Installation**

Consult **14CFR, §43.13-1B** for guidance on acceptable methods, techniques, and practices. Pulsar lights mount onto a supplied bracket, which mounts into existing holes on aircraft (see mounting diagram). For retrofit installation existing circuit breaker or fuse may typically be used. Procedures contained herein are not intended to conflict with procedures set forth by aircraft OEM, nor do they supersede FAA manuals and FAA regulations.

### **4.1 Installation Procedures**

1. Reference airframe manufacturer's maintenance manual and remove light covers to gain access to lamp assembly(s) and bracket(s)
2. This procedure is for light pair installations. See wiring diagram provided.
3. Refer to aircraft manufacturer's service manual and/or illustrated parts catalog to identify light system installed in your aircraft. This will provide information on location of components and assembly details
4. Reference airframe manufacturer's current maintenance manual and install LED light(s) in brackets using retained hardware
5. Install suitable aircraft approved connectors or splices to connect landing light assemblies to wires routed from switch in accordance with wiring diagram(s).
6. Placard switches appropriately.
7. Verify proper operation of LED light(s), as appropriate to installation
8. Reinstall associated light hardware IAW aircraft maintenance manual
9. Record installation with appropriate logbook entry

### **4.2 Troubleshooting**

1. Check for proper voltage at power input wire to light
2. Ensure light is adequately grounded
3. Check for continuity in wiring and connections
4. If wiring is verified, remove light and bench-check with appropriately sized power supply

# 5 Installation and Wiring Diagrams

## 5.1 Mounting Diagram

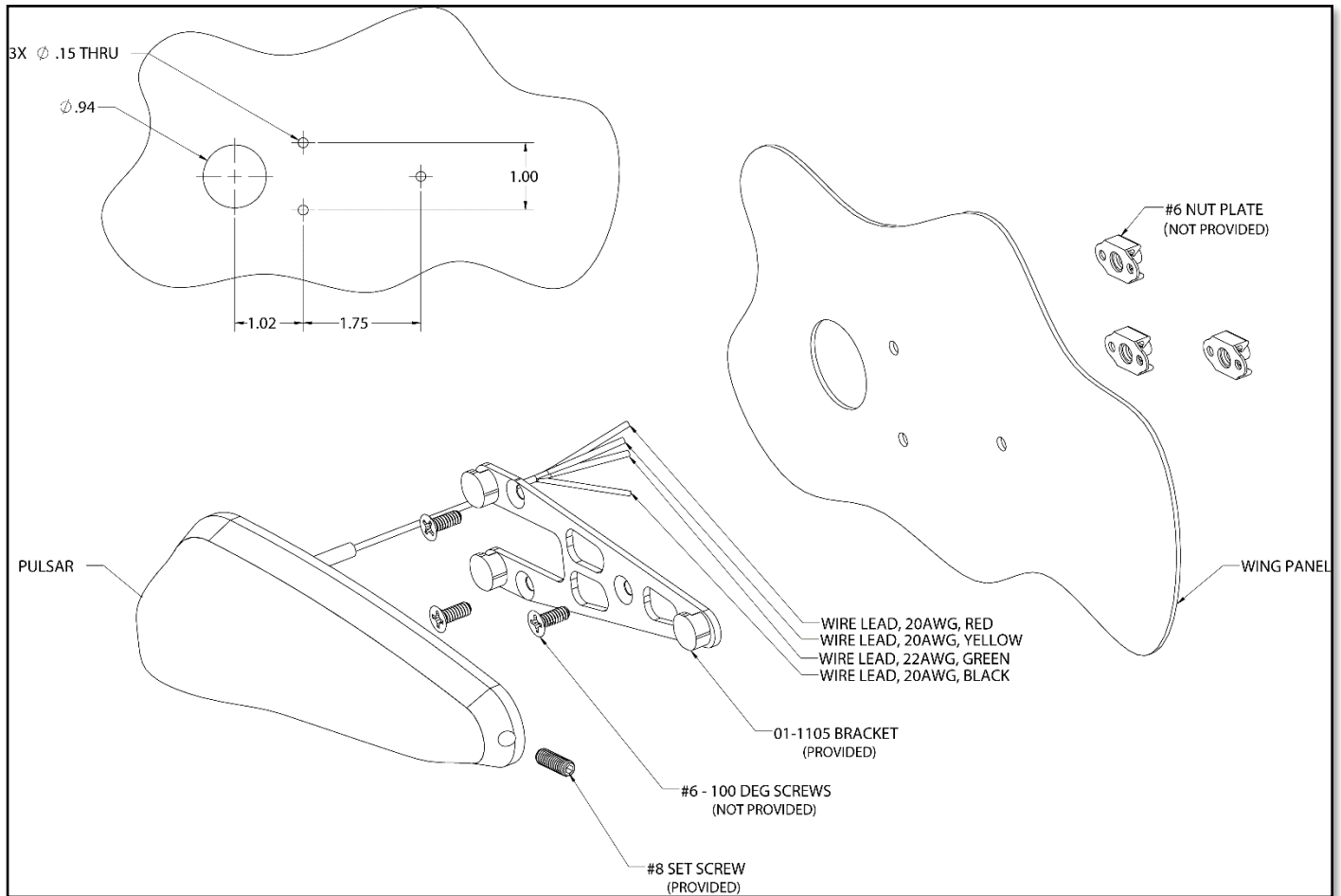


Photo 5-1

## 5.2 Bracket Reference

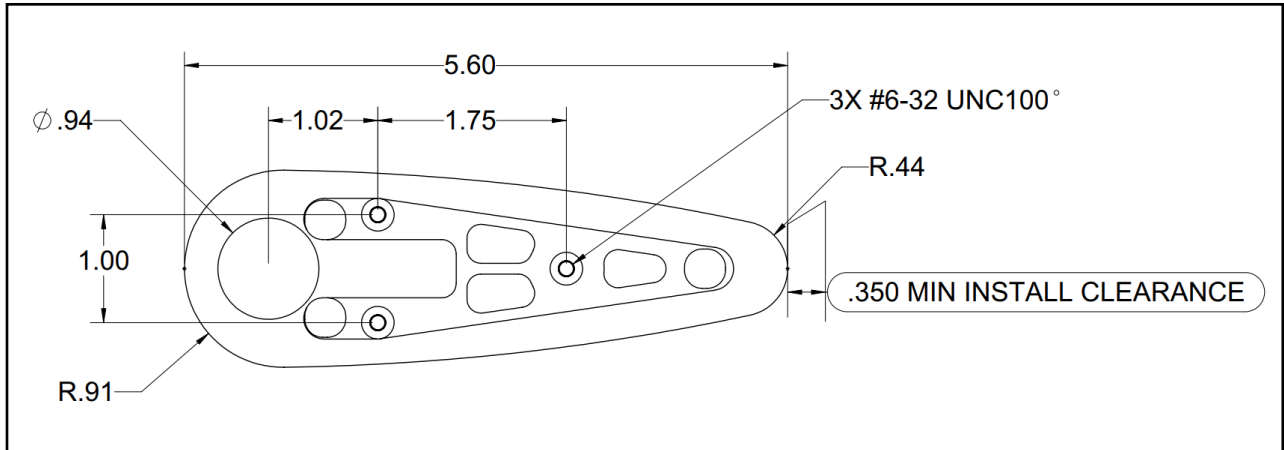


Photo 5-2

## 5.3 Wiring Diagram

**WARNING:** Do not connect strobe power wire to a Xenon strobe power pack. This will damage light and voids the warranty.

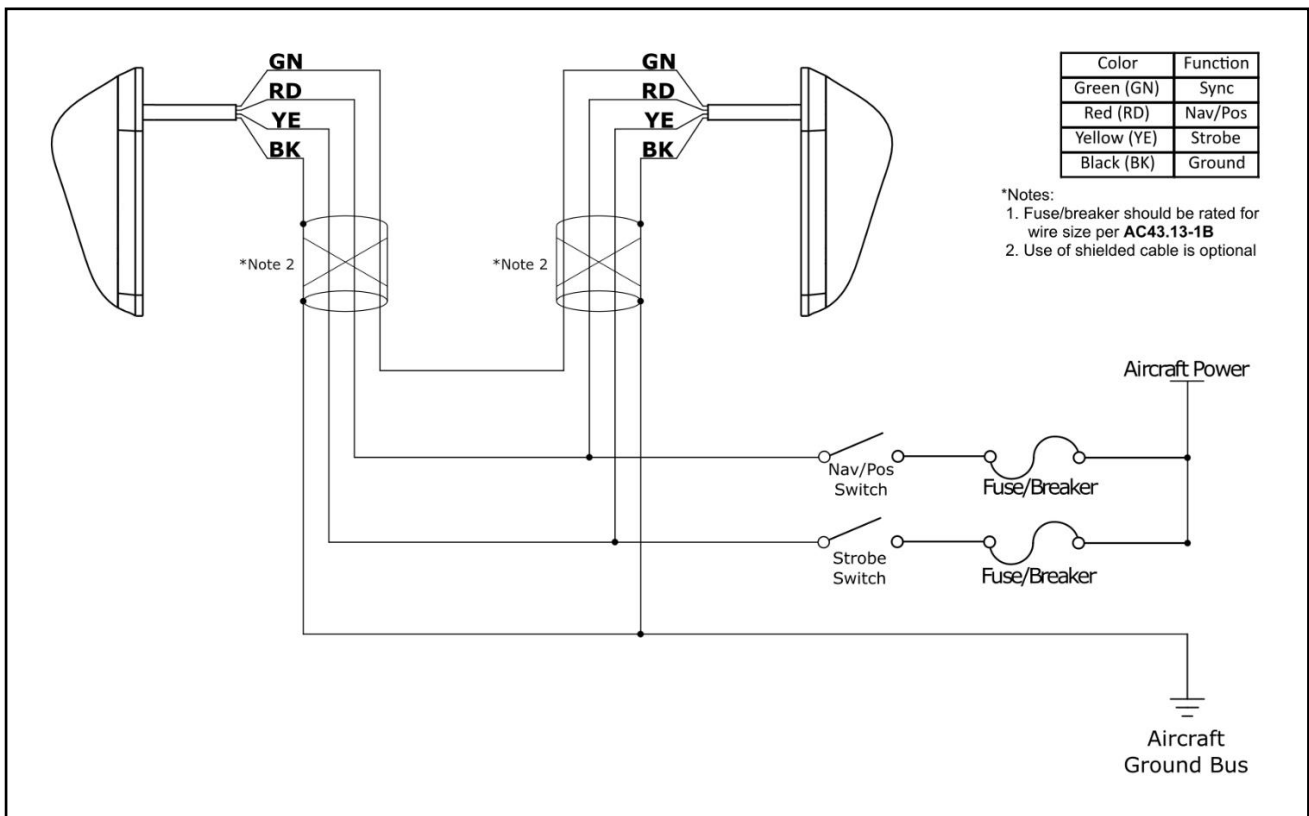


Photo 5-3