



WHELEN AEROSPACE TECHNOLOGIES

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**Installation Guide/ICA:  
 Aviation model 9048200  
 P/N 01-0790482-00**

**LED Tail Position / Ground Recognition /  
 Anti-Collision Light Assembly**

TSO-C30c TSO-C96a  
 TYPES III CLASS II  
 APPROVED APPROVED

*The conditions and tests required for TSO approval of this article are minimum performance standards. Those installing this article either on or within a specific type or class of aircraft must determine that the aircraft installation conditions are within the TSO standards which include any accepted integrated non-TSO functions. TSO articles and any accepted integrated non-TSO function(s) must have separate approval for installation in an aircraft. The article may be installed only according to 14 CFR part 43 or the applicable airworthiness requirements.*

**SPECIFICATIONS:**

**Nominal Operational Voltage:** .....28 VDC  
**Input Current (with 7123403 Flasher):**  
 LED Tail Position Light: .....0.25 Amps  
 LED Anti-Collision Light (Average): .....0.53 Amps  
 LED Anti-Collision Light (Peak@0.25 sec.): .....2.8 Amps  
 LED Ground Recognition Light (Average): .....0.13 Amps  
 LED Ground Recognition Light (Peak@0.25 sec.):...0.7 Amps  
 Flashrate .....45± 5 per min.

**EQUIPMENT LIMITATIONS:** An approved lighting system consists of three lights, one located on the tail and one located on each wingtip. The baseplate must be mounted parallel to the vertical and horizontal centerlines of the aircraft to project the patterns properly. The light assembly must be connected to flasher assembly, model 7123403.

Certain types of installations may require additional testing.

**AIRWORTHINESS LIMITATIONS:** The Airworthiness Limitations section is FAA approved and specifies inspections and other maintenance required under §43.16 and §91.403 of the Federal Aviation Regulations, unless an alternative program has been approved.

No airworthiness limitations are associated with the installation of the LED tail position/ground recognition/anti-collision light.

**CONTINUED AIRWORTHINESS:** The tail position light is designed with 4 LEDs. The anti-collision light is designed with 28 LEDs. The ground recognition light is designed with 4 LEDs. **Note:** To reduce eye strain, use an optical filter (such as dark glasses or blue covering dome) during LED inspection.

If any one LED fails, the unit must be repaired or replaced. Inspect the lens, replace if there is excessive scratching, pitting, discoloration or cracking. For additional lens maintenance detail see SAE ARP5637.

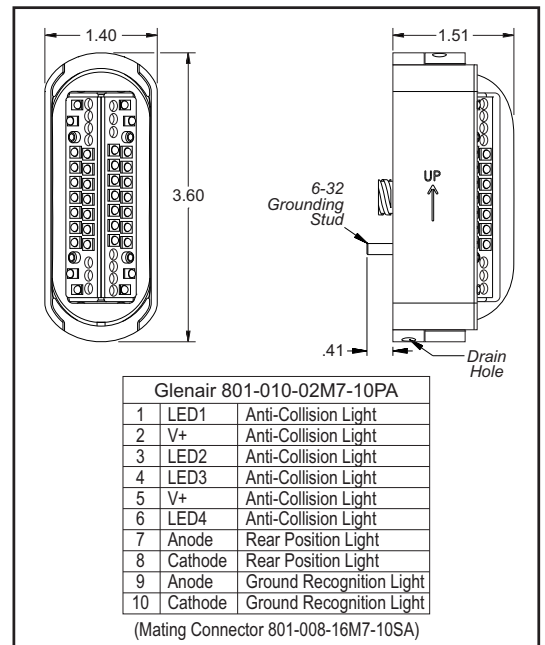
**Note:** The anti-collision light will automatically shut-off after 9-10 flashes if a failure is detected.

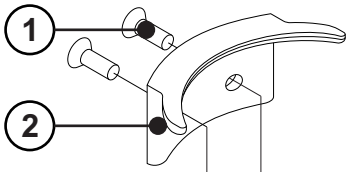
**PERIODIC INSPECTIONS:** An annual inspection shall be performed unless the OEM specifies a shorter interval.

**INSTALLATION PROCEDURES:**

- Using the mounting detail information on page 2, prepare the aircraft for means to secure the LED light assembly. Remove any existing mounting adapters.
- Connect the light inputs according to the chart shown. Connections to be in accordance with FAA approved methods.

- Remove 4 (2-56) screws to remove retainers. Carefully remove lens. Remove 3 (4-40) screws to remove mounting plate. CAUTION! Do not touch the LEDs with either fingers or sharp objects. This could soil and/or damage the LEDs and affect the optical performance of the light.
- Install the mounting baseplate by securing to the aircraft using appropriate, approved hardware (refer to page 2). Attach the light assembly using three screws. Insure that all leads are clear of any obstructions, and secure as required
- Reinstall lens, confirm proper gasket fit and secure using retainers and screws.
- When necessary, waterproof the lightbase to aircraft. Apply single-part Silicone (RTV) or equivalent around any open area where water could get in. Do not cover the drain holes.
- Check all avionics systems for interference from this installation.
- A flight check should be performed by a properly certified pilot.
- If required, update aircraft records utilizing FAA Field Approval (Form 337) or equivalent.





QTY	ITEM	PART NUMBER	DESCRIPTION
*		01-0790482-00	ASS'Y, TAIL/AC MODEL 9048200
4	1	14-026116-04P	SCREW, 2-56 X 1/4 PFHMS SS
1	2	19-171306-000	RETAINER, TOP
1	3	19-171306-100	RETAINER, BOTTOM
1	4	68-3990484A30	LENS, HARDCOATED
1	5	38-0271320-00	GASKET, LENS
3	6	14-040116-060	SCREW, 4-40 X 3/8 PFHMS
1	7		ASS'Y, LIGHTHEAD MODEL 9048200
1	8	06-171345-100	BASE PLATE, MOUNTING MODEL 9048200

