



WHELEN AEROSPACE TECHNOLOGIES

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**Installation Guide/ICA:**  
**Aviation model(s): 9058800**  
**P/N: 01-0790588-00**  
**LED Anti-Collision Light Assembly**

TSO-C96a  
CLASS II;  
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:**.....28VDC  
**(Operation from 22-32 VDC)**  
**Input Current (Average):** .....0.67 Amps  
**Pulse @ 0.25 Sec.:** .....3.9 Amps  
**Flashrate:** .....45± 5 per min.

**EQUIPMENT LIMITATIONS:** An approved lighting system consists of two lights, 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.

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 anti-collision light.

**CONTINUED AIRWORTHINESS:** The anti-collision light is designed with 36 LED's. 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.

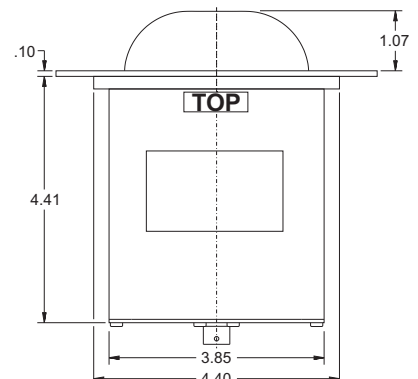
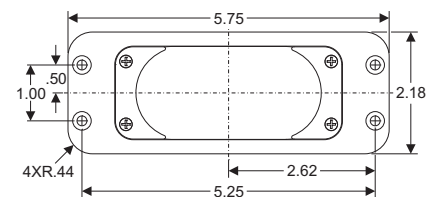
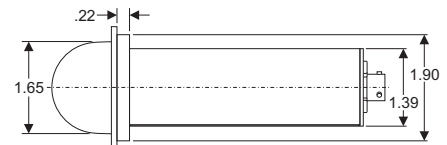
Note: The anti-collision light will automatically shut-off after 9-10 flashes if a failure is detected.

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

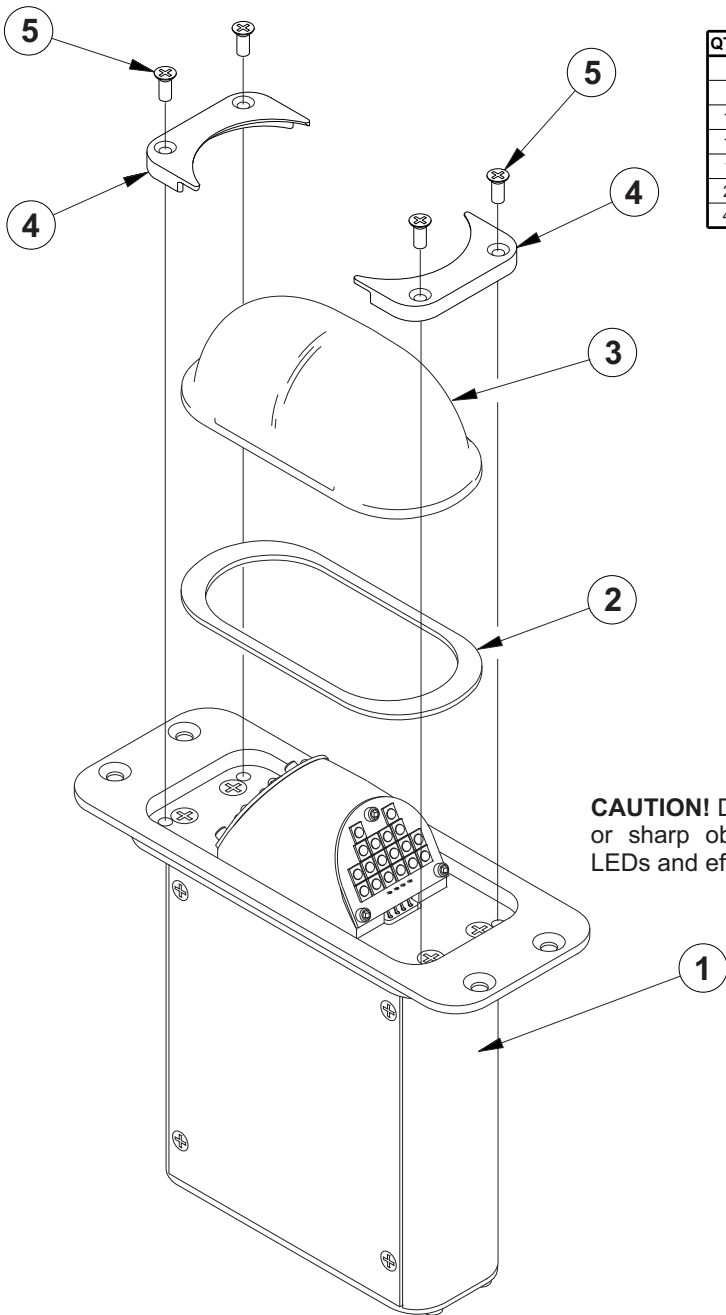
**INSTALLATION PROCEDURES:** The following information is to assist in the installation of a WAT Anti-Collision light system.

1. The installation procedure described in the following text will be confined to a single light installation, but is identical for multiple light installations.
2. Connect the anti-collision inputs according to the chart shown. Connect the power lead to an appropriately sized breaker. Connections to be in accordance with FAA approved methods.

3. Using appropriate hardware, install light assembly and insure that all leads are clear of any obstructions and ty-rap as required. Secure light assembly, using vibration resistant threaded fasteners. Note that proper orientation of the unit is achieved when the "TOP" label is facing up.
4. Check all avionics systems for interference from this installation.
5. A flight check should be performed by a properly certified pilot.
6. When necessary, waterproof the light base to aircraft. Apply single part silicone (RTV) or equivalent around any open area where water could get in.
7. If required, update aircraft records utilizing FAA Field Approval (Form 337) or equivalent.



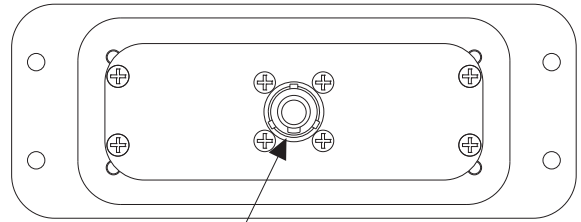
Aviation



QTY	ITEM	PART NUMBER	DESCRIPTION
		01-0790588-00	ASS'Y, ANTI-COLLISION LIGHT MODEL 9058800
1	1		ASS'Y, LIGHTHEAD, 9058800
1	2	38-0151009-00	GASKET, LENS
1	3	68-3971498A30	LENS, HARD COAT
2	4	19-151005-100	RETAINER, LENS
4	5	14-0050581-03	SCREW, 4-40 X 5/16 FHMS 100° COUNTERSINK

### REAR VIEW

MS27508E8F98P CONNECTOR  
 POSITION A = 28VDC  
 POSITION B = SYNC  
 POSITION C = GROUND



KEY ORIENTATION

**CAUTION!** Do not touch the LEDs with either fingers or sharp objects. This could soil or damage the LEDs and effect the optical performance of the light.