



WHELEN AEROSPACE TECHNOLOGIES

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**Installation Guide/ICA:**  
**Aviation model: 7106502**  
**P/N: 01-0771065-02**

## LED Ground Recognition Light Assembly

### SPECIFICATIONS:

**Nominal Operational Voltage:** .....28VDC  
**Input Current:** .....0.53 Amps  
**Pulse @ 0.2 Sec.:** .....2.0 Amps  
**Flashrate:** .....80± 10% per min.

**EQUIPMENT LIMITATIONS:** The baseplate must be mounted parallel to the vertical and horizontal center-lines of the aircraft to project the patterns properly.

**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 ground recognition light assembly.

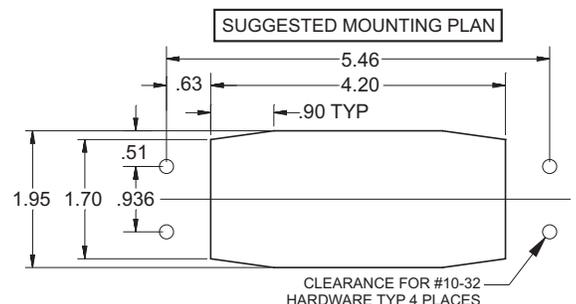
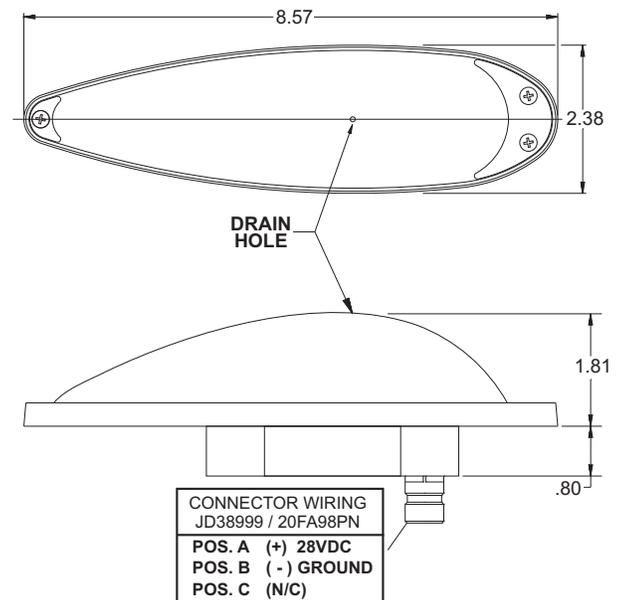
**CONTINUED AIRWORTHINESS:** The Ground Recognition Light, Model 7106502, consists of two banks of eight LEDs, for a total of 16 LEDs. If one LED fails as a short, the other 15 will continue to operate. If an LED fails open, all eight LEDs in that bank will be off, the other bank will operate normally. There is no FAR requirement for this light. Inspect the lens. Replace if there is excessive scratching, pitting, discoloration or cracking.

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

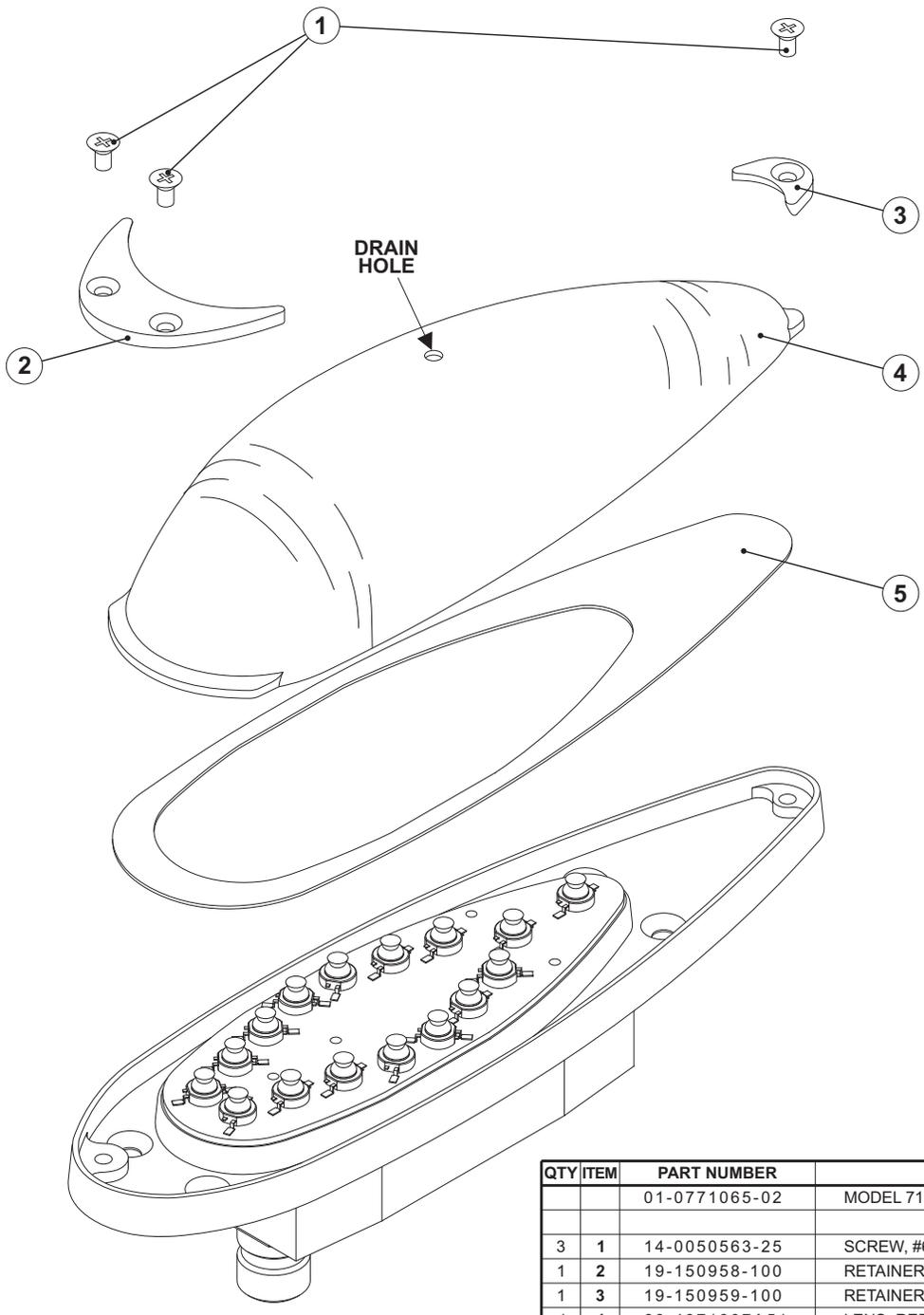
**INSTALLATION PROCEDURES:** The following information is to assist in the installation of a WAT Ground Recognition Light.

1. Using the mounting detail information provided, prepare the aircraft for means to secure the LED light assembly.
2. Connect the light inputs according to the chart shown. Connect the power lead to an appropriate sized breaker. Connections to be in accordance with FAA approved methods.
3. Remove the lens retainers and lens from the assembly CAUTION! Do not touch the LEDs with either fingers or sharp objects. This could soil and/or damage the LED and effect the optical performance of the LED assembly.
4. Using appropriate hardware, install light assembly and insure that all leads are clear of any obstructions and secured as required. Secure light assembly using vibration resistant threaded fasteners.

5. Reinstall the lens. Confirm proper gasket fit.
6. Install lens retainers. Re-insert #6 flat head screws and tighten firmly.
7. When necessary, waterproof the light base to aircraft. Apply single part silicone (RTV) or equivalent around any open area where water could get in, with the exception of the drain hole.
8. Check all avionics systems for interference from the installation.
9. A flight check should be performed by a properly certified pilot.
10. If required, update aircraft records utilizing FAA Field Approval (Form 337) or equivalent.



Aviation



QTY	ITEM	PART NUMBER	DESCRIPTION
		01-0771065-02	MODEL 7106502 FINAL ASSEMBLY LOWER MOUNT
3	1	14-0050563-25	SCREW, #6-32 X 5/16 PFHMS MS24693-25
1	2	19-150958-100	RETAINER, LENS - FRONT
1	3	19-150959-100	RETAINER, LENS - REAR
1	4	68-4971307A51	LENS, RED
1	5	38-0271342-00	GASKET, LENS