

WHELEN[®]

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Installation Guide: Aviation model 9065801, 9065802 P/N 01-0790658-01, 01-0790658-02 LED Position, Anti-Collision and Ground Recognition Light Assembly



MADE IN THE U.S.A.

TSO-C30c
 TYPE I & II;
 APPROVED

TSO-C96a
 CLASS II;
 APPROVED

SPECIFICATIONS:

Nominal Operational Voltage:28 VDC
 (Operation from 22-32 VDC)

Input Current:

LED Forward Position Light 0.23 Amps
LED Anti-Collision Light (Avg.) 0.73 Amps
LED Anti-Collision Light (Pulse@.25 Sec.) 3.9 Amps
LED Ground Recognition Light (Avg.) 0.13 Amps
LED Ground Recognition Light (Pulse@.25 Sec.)... 0.7 Amps

Flashrate 45 ± 5 / 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.

Per FAR 23.1401(d) or 25.1401(d), do not operate the anti-collision light and the ground recognition light at the same time.

The Ground Recognition Light is a non-TSO function.

This assembly does not provide rear position coverage as required by FAR 23.1385(c) or 25.1385(c).

Certain types of installations may require additional testing.

CONTINUED AIRWORTHINESS:

The forward position light is designed with 4 Green LEDs or 5 Red LEDs. The ground recognition light is designed with 8 LEDs. The anti-collision light is designed with 36 LEDs. If any one LED fails, the unit must be repaired or replaced. **Note: To reduce eye strain, use an optical filter such as dark glasses or a blue covering dome during LED inspection.** Inspect the lens. Replace if there is excessive scratching, pitting, discoloration or cracking.

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

INSTALLATION PROCEDURES:

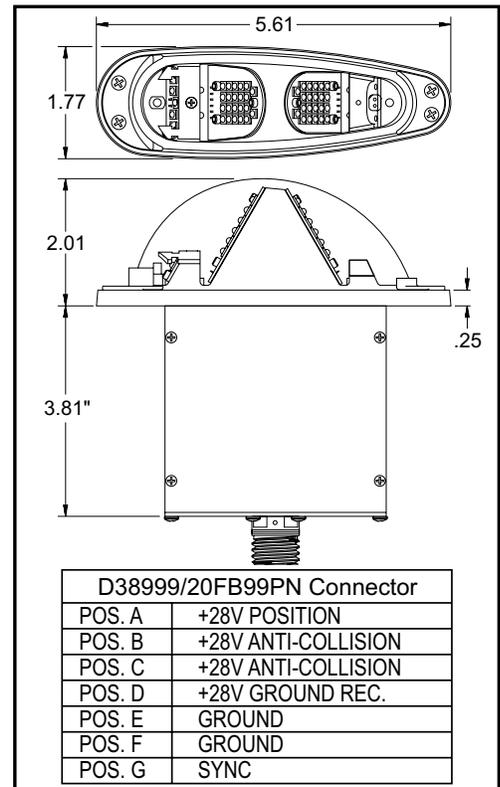
The following information is to assist you in installing a Whelen light system. The installation procedure described in the following text will be confined to a single light installation, but is identical for multiple light installations.

1. Choose the appropriate Model 90658() replacement light assembly.
2. Using the mounting detail information provided, prepare the aircraft for means to secure the LED light assembly.
3. Connect the inputs according to the chart shown. Connect the power leads to an appropriately sized breaker. Connections to be in accordance with FAA approved methods.
4. Carefully remove the lens retainers and lens from the assembly. CAUTION! Do not touch the LED surface with either fingers or sharp objects. This could soil or damage the lens and effect the optical performance of the LEDs.

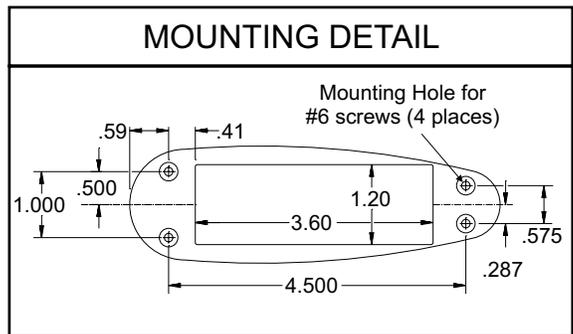
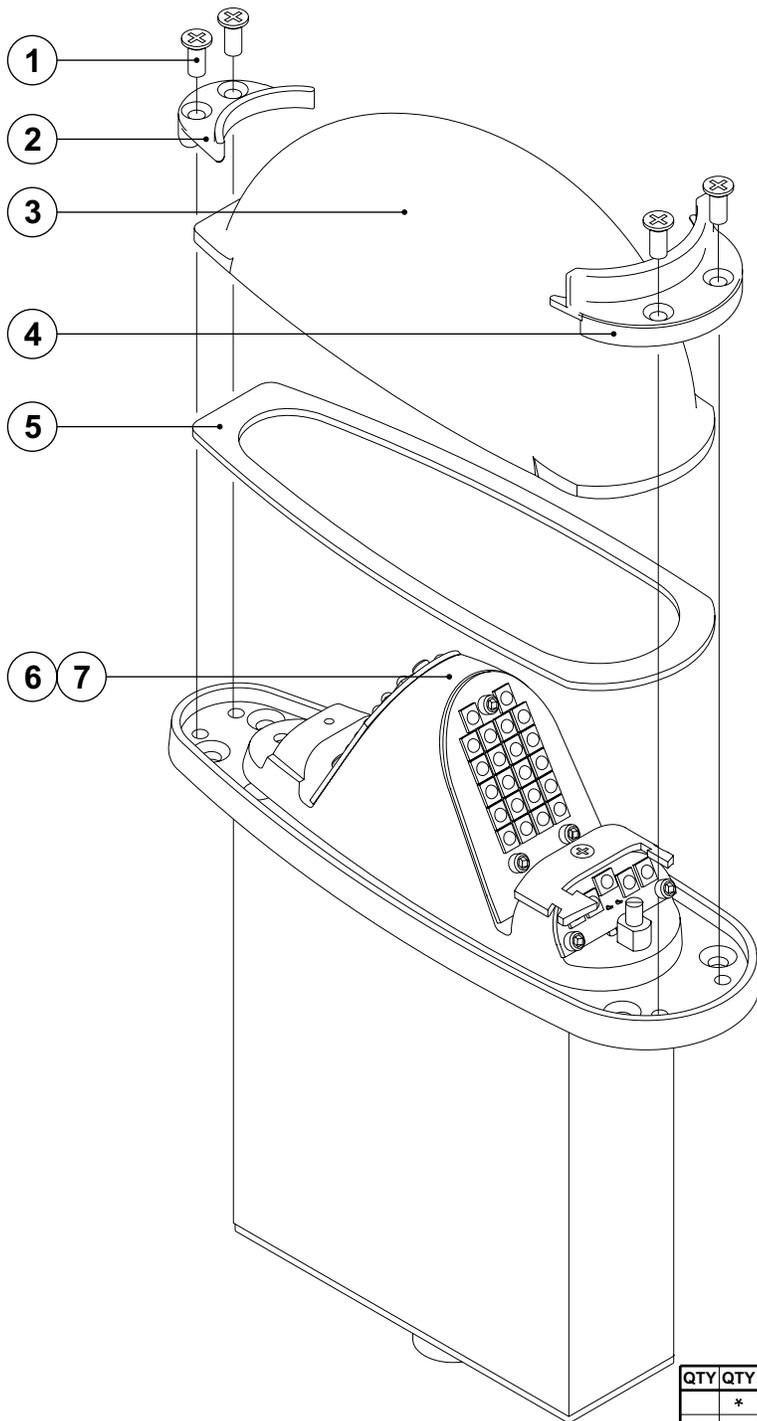
The conditions and tests required for TSO approval of this article are minimum performance standards. It is the responsibility of those installing this article either on or within a specific type or class of aircraft to determine that the aircraft installation conditions are within the TSO standards. TSO articles must have separate approval for installation in aircraft. The article may be installed only if performed under 14 CFR part 43 or the applicable airworthiness requirements.

5. Install the light assembly and insure that all leads are clear of any obstructions. Secure as required. Secure the light assembly using vibration-resistant threaded fasteners.
6. Carefully install the lens and retainers. Confirm proper gasket fit.
7. Waterproof the lightbase to aircraft. Apply single-part Silicone (RTV) or equivalent around any open area where water could get in.
8. Check all avionics systems for interference from this installation.
9. A flight check should be performed by a properly certified pilot.
10. Update aircraft records, complete Form 337 and obtain FAA field approval for installation, as required.

Note: SYNC is a low power, bi-directional control signal. Connecting to the synchronize signal of any Whelen LED anti collision assembly will cause the lights to flash at the same time. If synchronization is not necessary, the connection may be left open.



Aviation



QTY	QTY	ITEM	PART NUMBER	DESCRIPTION
	*		01-0790658-01	ASS'Y, GREEN POS. / A-C / GND. REC. LIGHT
*			01-0790658-02	ASS'Y, RED POS. / A-C / GND. REC. LIGHT
4	4	1	14-0050581B03	SCREW, 4-40 X 5/16 P100FH / CSK BLK
1	1	2	19-151003-100	RETAINER, REAR
1	1	3	68-3990574A30	LENS, HARDCOATED
1	1	4	19-171471-100	RETAINER, FRONT
1	1	5	38-0231219-00	GASKET, LENS
-	1	6	01-0290660-01	ASS'Y, LIGHTHEAD MODEL 9065801, GREEN
1	-	7	01-0290660-02	ASS'Y, LIGHTHEAD MODEL 9065802, RED