



WHELEN AEROSPACE TECHNOLOGIES

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Installation Guide/ICA:

Model 9035450

P/N 01-0790354-50

LED Tail Navigation and Anti-Collision Light Assembly

TSO-C30c
TYPE III
APPROVED

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.

WARNING: This product can expose you to chemicals including Methylene Chloride which is known to the State of California to cause cancer, and Bisphenol A, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

SPECIFICATIONS:

Nominal Operational Voltage:28 VDC
(operational from 24-32VDC)

With 7114801 Flasher

Anti-Collision

Average Current.....0.53 amps
Pulse Current:.....2.8 amps@250 ms
Flashrate.....45± 5 per min.

Navigation

Current.....0.16 amps

EQUIPMENT LIMITATIONS:

An approved lighting system consists of three lights, one located on the tail and one located on each wingtip. Model 9035450 is a tail position and anti-collision light. The assembly should be mounted as far aft on the aircraft as practicable on a thermally conductive surface. 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 light assembly.

CONTINUED AIRWORTHINESS:

The tail navigation light is designed with 4 LEDs. The anti-collision light is designed with 30 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. For additional lens maintenance detail, see SAE ARP5637.

Note: The anti-collision light has an internal diagnostic circuit that will shut-off after 20-25 flashes if a failure is detected.

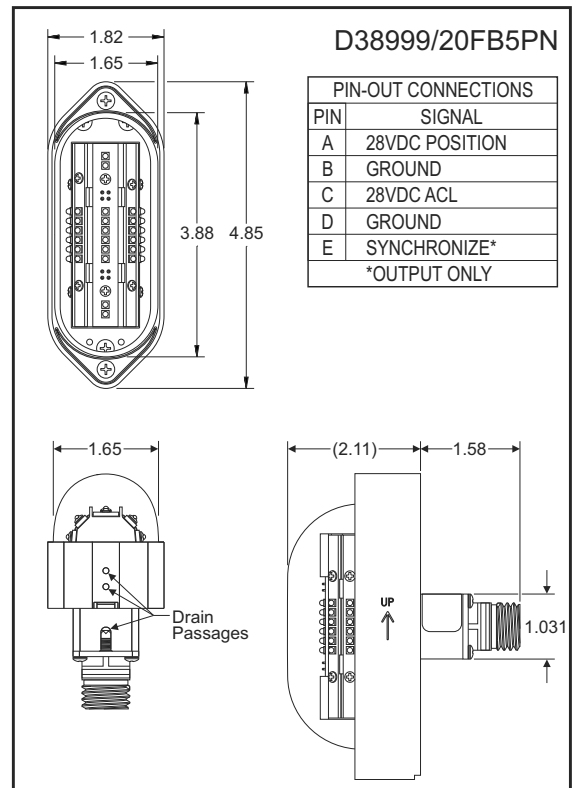
PERIODIC INSPECTIONS: An annual inspection shall be performed unless the OEM specifies a shorter interval.

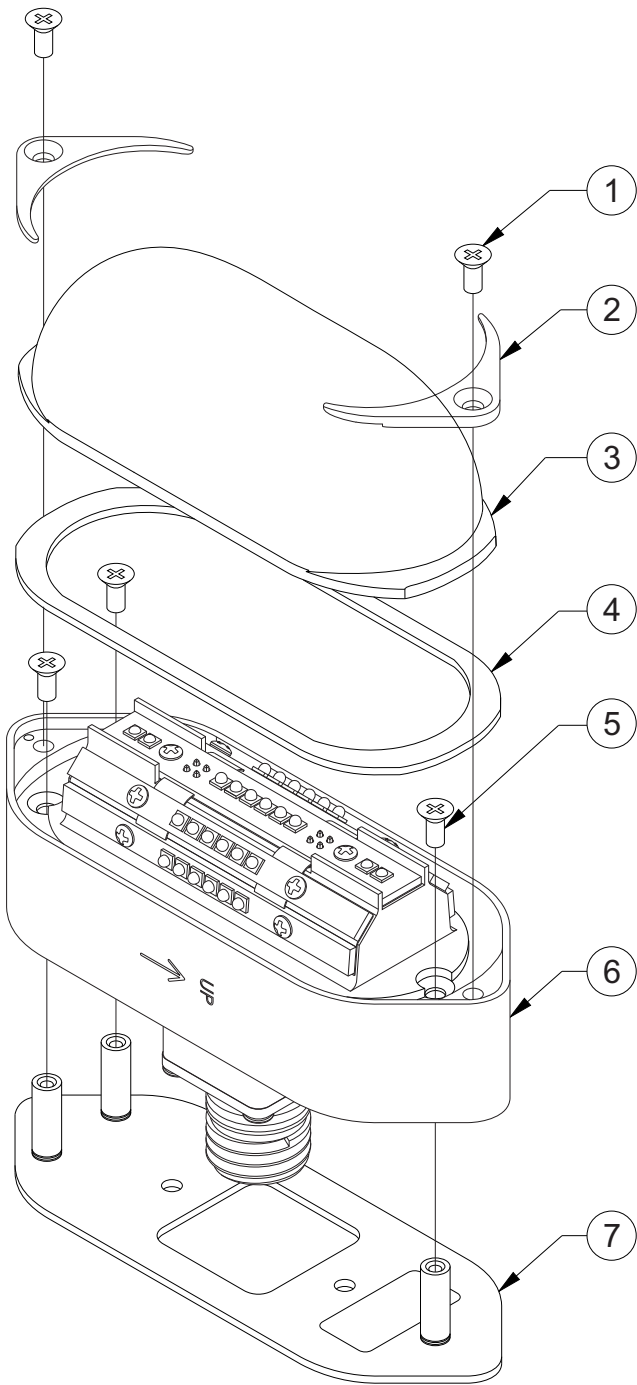
INSTALLATION PROCEDURES:

- Using the mounting detail information provided, prepare the aircraft for means to secure the light assembly.
- Remove the 2, #6 Phillips head screws and lens retainers. Carefully remove lens. Remove 3 Phillips head screws securing the baseplate to the light assembly. Remove the baseplate. **CAUTION:** Do not touch LEDs with either fingers or sharp objects. This could soil and/or damage the LED, effecting the optical performance of the light.
- Using the appropriate hardware, install the baseplate directly to the aircraft, making sure the single post end is up.
- Route the wires through the opening in the baseplate. Connect the light inputs according to the chart shown. Connect the power lead to an appropriately sized breaker. Connections to be in accordance with FAA approved methods.

Note: SYNC is a low-power, output control signal. Connecting to the synchronize signal of any WAT 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.

- Reinstall the light assembly onto the baseplate and insure that all leads are clear of any obstructions and secured as required. Note that proper orientation is achieved with the drain holes down.
- Reinstall the lens and secure using the retainers and screws. **Note:** Visually confirm that the lens, gasket and retainers are fully and properly seated.
- When necessary, waterproof the light base to the 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
*		01-0790354-50	ASS'Y, TAIL/AC MODEL 9035450
2	1	14-0050563-26	SCREW, 6-32 X 3/8 P100FH/CSNK MS24693C26
2	2	19-151138-001	RETAINER, LENS
1	3	68-3971137A30	LENS, NON-OPTIC
1	4	38-0250938-01	GASKET, LENS
3	5	14-062116-05M	SCREW, 6-32 X 5/16 PFHMS, SS 100° CSNK, PATCH
1	6		SUB-ASSY, MODEL 9035450
1	7	07-771956-100	PLATE, MOUNTING

