

WHELEN[®]

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Installation Guide: Aviation model(s) OR6002G, OR6002R P/N 01-0771733-11, 01-0771733-12 Orion 600 Wingtip PTA

TSO-C30c
 TYPE I, II & III;
 APPROVED



TSO-C96a
 CLASS II;
 APPROVED

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.

SPECIFICATIONS:

Nominal Operational Voltage:28VDC
 (Operational from 22-32VDC)
Input Current:
 Position Lights0.17 Amps
 Anti-Collision Light (Avg.)0.5 Amps
 Anti-Collision Light (Pulse)2.6 Amps
 Flashrate45 ± 5 FPM

EQUIPMENT LIMITATIONS:

An approved forward position 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.

CONTINUED AIRWORTHINESS:

The forward position light is designed with Green LEDs or Red LEDs. The tail position light is designed with 2 White LEDs. The anti-collision light is designed with 24 White LEDs. 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.

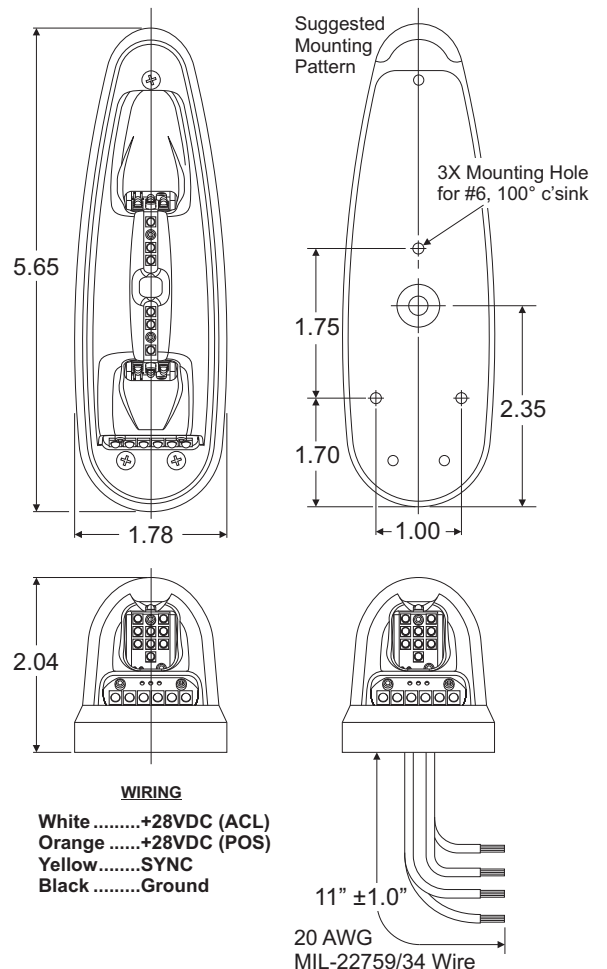
Note: To reduce eye strain, use an optical filter such as dark glasses or a blue covering dome during LED inspection.

INSTALLATION PROCEDURES:

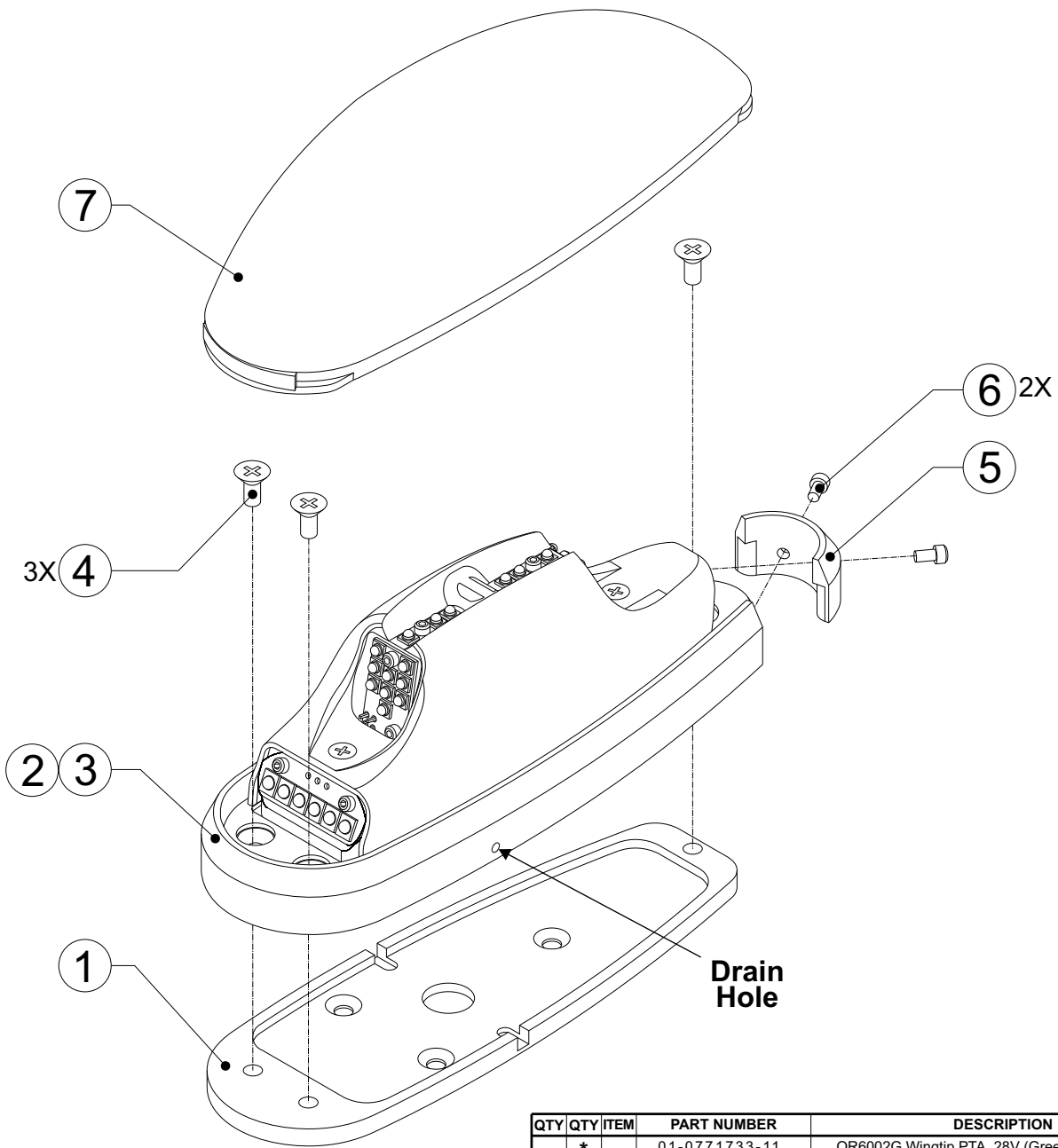
The following information is to assist you in installing a Whelen light system. The installation procedure described in the following text will be confined to a single light installation, but is identical for multiple light installations.

- Choose the appropriate light assembly.
- Using the mounting detail information provided, prepare the aircraft for means to secure the light assembly.
- Carefully remove the #2 cap head screws and lens retainer. Remove the lens from the light assembly by lifting the rear of the lens approximately 1/2". Now slide the lens rearward approximately 1/2" and lift upwards to remove. **CAUTION! Do not touch the LED lens surface with either fingers or sharp objects. This could soil and/or damage the lens and affect the optical performance of the LEDs.** Remove the 3 black Phillips head screws securing the baseplate to the light assembly. Remove baseplate.
- Using the appropriate hardware install the baseplate to the aircraft.
- Connect the light inputs according to the chart shown. Connect the power lead to an appropriately sized breaker. Connections to be according to FAA approved methods.
 Note: SYNC is a low-power, bi-directional control signal. Connecting to the synchronize signal of any Whelen LED anti-collision assembly to another Whelen anti-collision assembly will cause the lights to flash at the same time. If Synchronization is not necessary, the connection may be left open.
- Re-install the light assembly on to 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 hole down.

- Install lens in the reverse order as removal, return the lens retainer to its installed location, re-insert #2 cap head screw and tighten firmly. Confirm proper gasket fit.
- When necessary, waterproof the light base to aircraft. Apply single-part Silicone (RTV) or equivalent around any open area where water could get in. Do not cover the drain hole.
- Check all avionics systems for interference from this installation.
- A flight check should be performed by a properly certified pilot.
- Update aircraft records, complete Form 337 and obtain FAA field approval for installation, as required.



Aviation



QTY	QTY	ITEM	PART NUMBER	DESCRIPTION
	*		01-0771733-11	OR6002G Wingtip PTA, 28V (Green)
*			01-0771733-12	OR6002R Wingtip PTA, 28V (Red)
1	1	1	06-171708-001	Baseplate
-	1	2	01-0271759-11	OR6002 Assembly (GREEN)
1	-	3	01-0271759-12	OR6002 Assembly (RED)
3	3	4	14-0050581B03	Screws, 4-40 x 5/16 P100FH MS24693-3B
1	1	5	19-171730-00	Retainer, Lens
2	2	6	14-026A36-04M	Screws, 2-56 x 1/4 Socket HP Cap
1	1	7	02-0371773-30	Lens, Clear, Hardcoated