Installation Guide:
Aviation model OR5002V
P/N 01-0771774V02
LED Tail Position / Anti-Collision
Light Assembly (28V)

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

Input Current:
Position Lights ........................................ 0.1 Amps
Anti-Collision Light (Avg.) ...................... 0.36 Amps
Anti-Collision Light (Pulse) ................... 1.9 Amps
Flashrate ............................................. 45 ± 5 FPM

EQUIPMENT LIMITATIONS:
An approved lighting system consists of three lights, one located the tail
and one on each wingtip. Model OR500( ) 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.

CONTINUED AIRWORTHINESS:
The tail position light is designed with 4 LEDs. The anti-collision light is
designed with 18 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.

1. Choose the appropriate light assembly.
2. Using the mounting detail information provided, prepare the
   aircraft for means to secure the light assembly.
3. 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. 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.
4. Proper installed orientation is achieved with the drain hole down.
   Note: The arrow on the label must point up. Install the light
   assembly on to the aircraft. Insure that all leads are clear of any
   obstructions and secured as required.
5. 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 or the back
   of the unit.
6. Check all avionics systems for interference from this installation.
7. A flight check should be performed by a properly certified pilot.
8. Update aircraft records, complete Form 337 and obtain FAA field
   approval for installation, if required.

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.

MADE IN THE U.S.A.
DO NOT TOUCH THE LED LENS SURFACE WITH EITHER FINGERS OR SHARP OBJECTS. THIS COULD SOIL AND/OR DAMAGE THE LENS AND EFFECT THE OPTICAL PERFORMANCE OF THE LEDs.

**CAUTION!**

<table>
<thead>
<tr>
<th>QTY</th>
<th>ITEM</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
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<tr>
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<td>14-040216-160</td>
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<td>19-151080-100</td>
<td>Retainer</td>
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<td>3</td>
<td>68-3951061A31</td>
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<td>4</td>
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<td>Gasket</td>
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<td>01-0280717-01</td>
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<td>13-040130-040</td>
<td>Nut, #4-40 x 1/4, Hex Brass</td>
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* For Shipping Purposes Only