

WHELEN[®]

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Installation Guide: Aviation model 9035401 P/N 01-0790354-01 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. 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:..... 28 VDC
Weight..... 1.0 lbs.
With 7114801 Flasher:

Anti-Collision

Average Current 0.71 amps
 Pulse Current:..... 3.8 amps@25 seconds
 Flashrate..... 45± 5 per min.

Navigation

Current..... 0.25 amps

EQUIPMENT LIMITATIONS:

An approved lighting system consists of three lights, one located on the tail and 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:

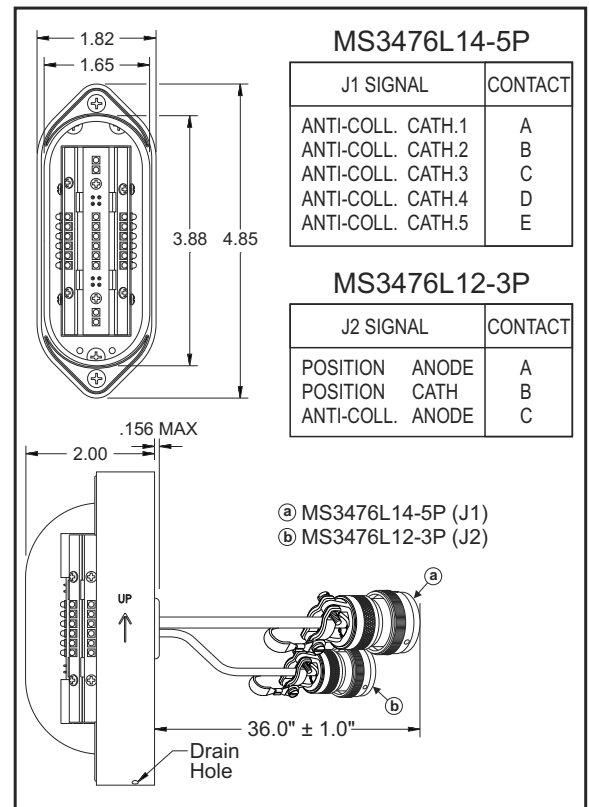
The tail navigation light is designed with 4 LEDs. The anti-collision light is designed with 30 LEDs. If any one LED fails, the unit must be repaired or replaced. **NOTE:** To reduce eye strain, use an optical filter such as dark glasses or a blue covering dome during LED inspection. Inspect the lens. Replace if there is excessive scratching, pitting, discoloration or cracking.

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

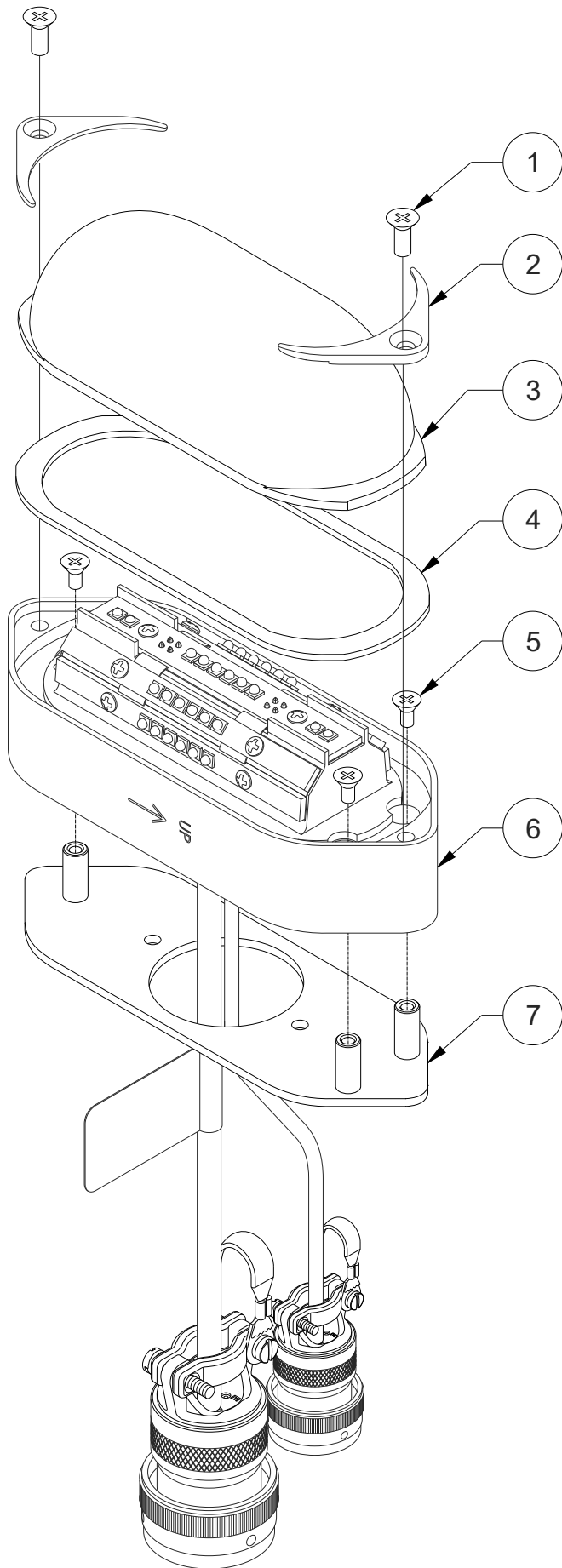
INSTALLATION PROCEDURES:

1. Connect the anti-collision light inputs and the navigation light inputs according to the chart shown. Connections to be in accordance with FAA approved methods.
2. Remove 2 screws to remove retainers. Carefully remove lens. Remove 3 screws to remove mounting plate. 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.
3. Using 2, #4 panhead screws, install the mounting plate to the aircraft. Attach the light assembly using the 3 screws, insuring that all leads are clear of any obstructions, and ty-wrap as required.
4. Reinstall lens and secure using retainers and screws.

5. Check all avionics systems for interference from this installation.
6. A flight check should be performed by a properly certified pilot.
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. Do not cover the drain holes.
8. Update aircraft records, complete Form 337 and obtain FAA field approval for installation, as required.



Aviation



| QTY | ITEM | PART NUMBER | DESCRIPTION |
|-----|------|---------------|---|
| * | | 01-0790354-01 | ASSY, TAIL/AC MODEL 9035401 |
| 2 | 1 | 14-0050508-28 | SCREW, 6-32 X 3/8 PFHMS, 82DEG (MS51959-28) |
| 2 | 2 | 19-150936-000 | RETAINER, LENS |
| 1 | 3 | 68-3971137A30 | LENS, CLEAR |
| 1 | 4 | 38-0250938-01 | GASKET, LENS |
| 3 | 5 | 14-062116-05M | SCREW, 6-32 X 5/16 P100FH CSINK w/NYLON PATCH |
| 1 | 6 | 01-0290801-01 | ASSY, MODEL 9035401 |
| 1 | 7 | 06-171252-100 | PLATE, MOUNTING MODEL 90354 |

