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**Double
Obstruction
Light**

L-810 Obstruction Light Installation Manual

Table of Contents

| Section | Description |
|----------------|---------------------------|
| 1.0 | Introduction |
| 2.0 | Parts Layout |
| 3.0 | Parts List |
| 4.0 | Installation Instructions |
| 5.0 | Maintenance Instructions |

Section 1.0 - Introduction

This manual provides the information to install and troubleshoot a Flight Light Incorporated L-810 light fixture.

Flight Light L-810 obstruction lights are used on buildings, antennas, towers, cranes, and any other kind of obstacle which occupies airspace. Each fixture includes a glass Fresnel globe which is colored red for most applications. The fixtures are either a single or double lamp housing and made with 3/4" or 1" internally threaded housing. A side-mounted option is also available. These obstruction lights operate on a 120V or 230V circuit. The fixture is illuminated with a 116W, A21 medium screw base lamp.

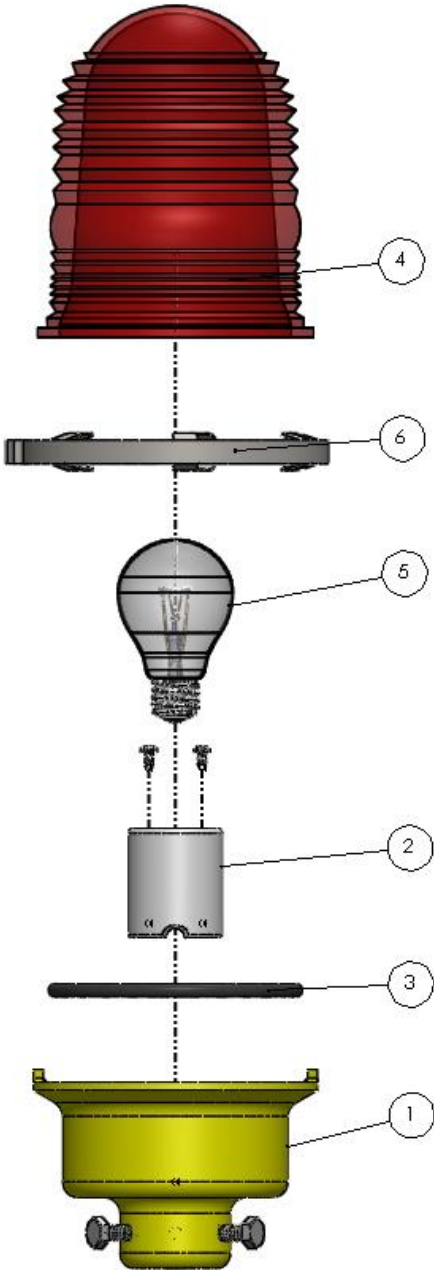
Features

- FAA approved L-810, certified and tested by ETL with a red lens and 116W lamp #32B.
- Direct installation into existing voltage power circuit.
- Direct mounting to conduit, bottom or side mounting options available.

FAA Advisory Circulars are presently available online at:
http://www.faa.gov/regulations_policies/advisory_circulars/

Section 2 – Parts Layout

The following exploded view depicts the components which comprise the Flight Light L-810 light fixture.



| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|----------------------------|--|------|
| 1 | 61-80003 | Fixture Head | 1 |
| 2 | 61-80004 | Medium Base Light Socket | 1 |
| 3 | 61-80002 | Rubber O-Ring | 1 |
| 4 | 61-861R | Red Fresnel Lens | 1 |
| 5 | LA-22483-2 LA-116W/230V | 116W Incandescent Bulb 120V 116W Incandescent Bulb 240V | 1 |
| 6 | 61-80001 | Stainless Steel Clamp Band | 1 |

Section 3 - L-810 Parts List

The following table lists the parts shown in section 2. All parts are supplied by Flight Light, Inc.; located at 2708 47th Ave. Sacramento, California.

| Fig. # | P/N | Description |
|---------------------|--------------|--------------------------------|
| 1 | 61-80003 | Fixture Head |
| 2 | 61-80004 | Medium Base Light Socket |
| 3 | 61-861R | Red Fresnel Lens |
| 4 | 61-80001 | Clamp band - stainless steel |
| 5 | LA-22483-2 | 116W Incandescent Bulb 120V |
| | LA-116W/230V | 116W Incandescent Bulb 240V |
| 6 | 61-80002 | O-Ring Seal |
| Not Shown | 68-GRIP-1F | Strain Relief |
| Mounting Devices | 13-A5.5-14 | 5-1/2" riser for 14" fixture |
| | 13-FC1.5 | Frangible metal coupling, 1.5" |
| | 13-FC2.0 | Frangible metal coupling, 2.0" |

Section 4 - L-810 Obstruction Light Installation Instructions

Installation:

The L810 is provided with either ($\frac{3}{4}$ " x 14) or (1" x 11½) NPT(F) female internal threads for mounting.

Mechanical Dimensions:

- a. width = 14" (335.6mm)
- b. height = 19" (482.6mm)
- c. depth = 5" (127.0mm)

Electrical Installation:

There are three wires provided for the customer to connect:

- Black – 120VAC or 240VAC Line
- White – AC Neutral
- Green – Ground

Section 5 - Maintenance

REMOVE POWER FROM FIXTURE ELECTRICAL CIRCUIT AND DO LOCK OUT/TAG OUT PROCEDURES BEFORE PERFORMING MAINTAINENCE

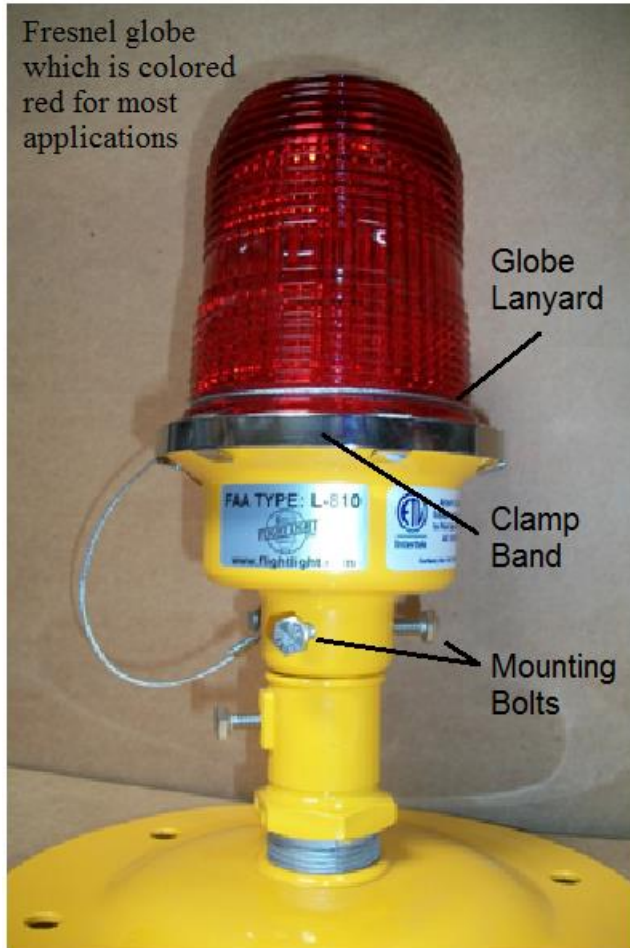


Fig 1: L-810 on Base Plate

1. Remove clamp band from head assembly. Gently lift the red globe and hang the clamp band and globe to the side. Replace medium screw base bulb (Attached to the bulb socket you will find a label showing part number, wattage and bulb voltage –see figure 2). Be sure to use the same type lamp matching wattage and voltage requirements. Install new bulb.
2. While red globe is removed, use a clean cloth to wipe inside surfaces of globe first, then the outer surface. Clean out any insect debris that might be in the head assembly.
3. Check the three mounting bolts to insure lamp fixture is secure.
4. Inspect the O-ring -it should be pliable and no evidence of leakage should be present. If the O-ring has become hard or brittle, or if there is evidence of leakage, replace the O-ring. (see parts list above)

5. Mount the red globe onto the head assembly, make sure to align nub of head assembly into the notch in the red globe. Re-install clamp band to secure red globe to head assembly.

