

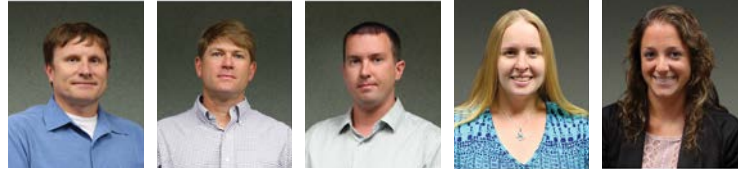


**WHELEN<sup>®</sup>**  
MANUFACTURED IN AMERICA

**2017 AVIATION LIGHTING CATALOG**

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Greg Ginnetti   Jeff Argersinger   Bryan Bochinski   Jessie Bernier   Trish Wille

## WHERE IT ALL BEGAN.....

It All Started 1952 in a Garage with the First Rotating Beacon. A privately owned company, Whelen has experienced positive growth for over 60 years. The pride and commitment of its work force, whose employment longevity averages over 22 years, is rewarded through a profit sharing plan established by the Whelen family since the company was founded. The development of the first aviation light helped launch Whelen into the automotive safety lighting industry as well.

Whelen currently provides safety lighting for Police, Fire, EMS, and DOT professionals as well as many other industries. The production volumes seen in the automotive sector have allowed Whelen to invest in the latest automated assembly equipment in order to compete world-wide. Last year Whelen purchased over 60 million LEDs for use in their extensive family of products. In the 1970s Whelen introduced the Outdoor Warning Siren ... totally electronic and capable of not just warning tones but also high-powered voice messages. The Mass Notification Division has saved lives around the world.

At Whelen Engineering, our goal is to bring innovative, life saving products to market more quickly while maintaining strict quality control throughout the process. We have accomplished this through a vertical manufacturing initiative to eliminate or reduce out-sourcing; the use of robotics and state-of-the-art production equipment; and, perhaps most importantly, a motivated workforce of over 1400 employees. This allows us to meet and adapt to our customer's changing needs in the shortest amount of time.



Original location of Whelen Engineering



First rotating beacon

- Two manufacturing facilities totaling over 1 million square feet.
- Largest staff of Design Engineers in the industry.
- Research and development.
- Partnering with OEMs on new vehicle design and product integration.
- Plastics injection molding machines from 30 to 2000 tons capacity.
- In-house plastics, hard-coating, metallizing, & sheet metal fabrication.
- On-site test lab for environmental dust, moisture, vibration, etc, acoustic anechoic sound chamber, industry certifications (SAE, AMECA, FAA to name a few).
- Sales and Technical Personnel are trained at the factory training center and return for updates on a regular schedule.
- Worldwide network of Sales, Service and Training.

## MANUFACTURING FACILITIES



Connecticut plant



New Hampshire plant



Makers of Aviation, Automotive and Industrial Safety Lighting since 1952 Whelen Aviation Warning Products are all designed, assembled, tested and manufactured in the United States of America.  
CONTACT US: [WWW.WHELEN.COM](http://WWW.WHELEN.COM) or [AVIATION@WHELEN.COM](mailto:AVIATION@WHELEN.COM)

## REQUIREMENTS, LOCATIONS, & DISTRIBUTION PATTERNS

All aircraft must have an approved anti-collision light and position light system for nighttime operations. The position lights consist of an Aviation Red on the left side, an Aviation Green on the right and an Aviation White Taillight (REF. FAR 23.1389).

The anti-collision lighting system is required under FAR PART 91.205(c). There are different requirements affecting different aircraft. These aircraft are categorized by the date of application for type certificate. Home built aircraft are determined by the date of issuance of the Experimental Operating Limitations. The different categories are as follows:

**Aircraft for which type certificate was applied for After April 1, 1957 to August 10, 1971:**

These anti-collision systems must produce a minimum of 100 effective candela in Aviation Red or White (REF. FAR 23.1397), 360° around the aircraft's vertical axis, 30° above and below the horizontal plane (REF. FAR 23.1401).

**Aircraft for which type certificate was applied for After August 11, 1971 to July 18, 1977:**

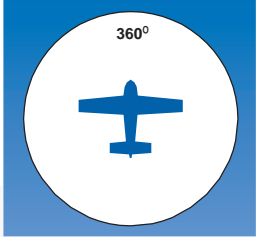
These anti-collision systems must produce a minimum of 400 effective candela in Aviation Red or White (REF. FAR 23.1397), 360° around the aircraft's vertical axis, 30° above and below the horizontal plane (REF. FAR 23.1401).

**Aircraft for which type certificate was applied for After July 18, 1977:**

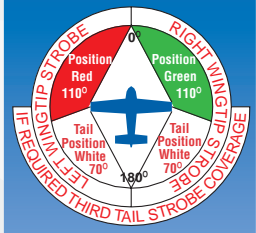
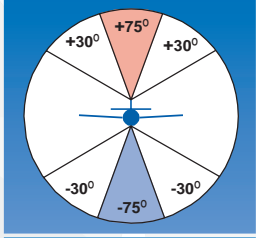
These anti-collision systems must produce a minimum of 400 effective candela in Aviation Red or White (REF. FAR 23.1397), 360° around the aircraft's vertical axis, 75° above and below the horizontal plane (REF. FAR 23.1401).

**Note:** The position lights must be wired independently of anti-collision lights.

An approved anti-collision strobe light system must project light 360° around the aircraft's vertical axis. One or more strobe lights can be used.



An approved anti-collision strobe light system must project light + or - 30° above and below the horizontal plane of the aircraft. One or more strobe lights can be used. The + or - 75° projected light is required since July 18, 1977.

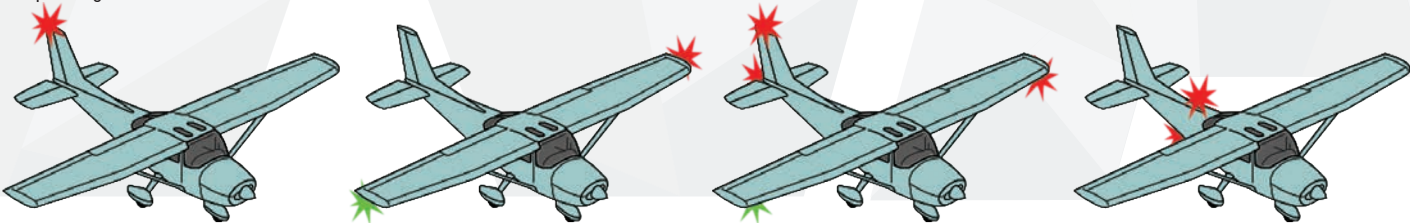


## INSTALLATION LOCATIONS

**Wingtip/Enclosed Wingtip:** The major difference in systems is the location of the strobe power supplies which can be mounted locally, one in each wingtip, or a single power supply can be mounted in the fuselage. Installation time can be greatly reduced if done in conjunction with an annual or one hundred-hour inspection. Properly installed power supplies & cabling are necessary for the safe operation of Whelen or any light systems.

**Fuselage:** Fuselage mounted units can be either self-contained with the power supply and lighthouse as one unit, or remote lighthouses run off a separate power supply. To meet the field of coverage, one must be on the top of the fuselage and one on the bottom.

**Vertical Fin:** Finally, if applicable, a single anti-collision light can be mounted on the vertical stabilizer. It can be either a self-contained or remote lighthouse depending on the aircraft.



**Vertical Fin:** One anti-collision strobe light mounted on the vertical fin will meet the minimum requirements on most aircraft. A half Red and half White lens is recommended.

**Wingtip:** Two wingtip strobe lights that protrude beyond the wingtip.

**Enclosed Wingtip:** Enclosed wingtip anti-collision strobe lights, require a third strobe light on the tail or vertical fin, to fill in the required light envelope. This is an approved anti-collision system.

**Fuselage:** In a fuselage mounted anti-collision strobe light system, a minimum of two strobe lights are necessary to get the required vertical coverage. This is an approved anti-collision system.

## TECHNOLOGIES

**Halogen Lamp:** A halogen lamp is an incandescent lamp with a tungsten filament contained within an inert gas.



**Strobe Tube:** Strobe light consist of a tube containing an inert gas, such as Xenon. Capacitors inside the light are charged up to a relatively high voltage, roughly 300 volts for small strobes, then discharged via a trigger to create a bright burst of light.



**LED:** LEDs are solid-state devices and are subject to very limited wear and tear if operated at low currents and low temperatures. A square wavelength creates higher visibility with longer on time.



## LEGEND



STC Approved Product



FAA PMA Approved Product



TSO/ETSO-C96a & TSO/ETSO-C30c approved



Night Vision Goggle Friendly Lighting



Infra-Red Lighting



Ground Recognition Lighting



FAR SPEC Compliant

# SELF-CONTAINED POSITION/ANTI-COLLISION LIGHTHEADS



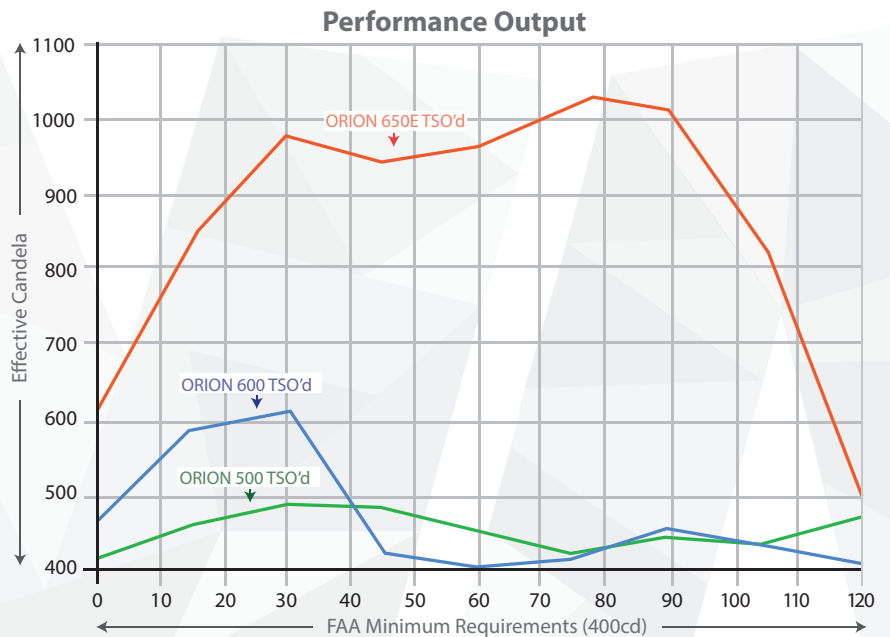
“...THE LATEST STATE-OF-THE-ART LED TECHNOLOGY AVAILABLE IN AN ALL INCLUSIVE PACKAGE.”

## ORION™ SERIES

Whelen Engineering is proud to introduce the ORION Series of TSO/ETSO approved LED aviation lighting. Incorporating the latest state-of-the-art LED Technology available in an all-inclusive package, the ORION series eliminates the need for external flasher boxes. Flush mountable for a wide variety of applications with minimal integration and easily retrofitable to the Whelen legacy strobe products. The ORION series is quite simply the brightest form of LED Anti-collision and Position lighting available.



### ORION 500



| Model   | Part#         | Description             | Drawing# | Weight           | Dimensions                      | Lens  | Approvals   |
|---------|---------------|-------------------------|----------|------------------|---------------------------------|---|---|
| OR5001V | 01-0771774V01 | Taillight White, 12 VDC | 71774    | 0.29 lbs (132gm) | 2.38" (60mm) x 1.75" (44mm) Dia | Clear Hard-coated Polycarbonate (Field Replaceable) | STC / TSO/ETSO-C96a Class II TSO/ETSO-C30c Type III |
| OR5002V | 01-0771774V02 | Taillight White, 28 VDC |          |                  |                                 |   |   |

**Lens Part#** 68-3951061A-31 **Supplement: STC SA800EA**

### FAR SPEC

A Technical Standard Order (TSO) is a minimum performance standard and does not equal compliance with the applicable Federal Aviation Regulations. In fact other manufacturers produce TSO approved items with operational characteristics that contradict the FARs. Whelen designs products as FAR-SPEC, Federal Aviation Regulations – Specified Lighting. FAR-SPEC is compliant with all applicable FAR's making your installation legal.

\* Installers must follow the approved guidance for installation of the product to be FAR-SPEC compliant

# SELF-CONTAINED POSITION/ANTI-COLLISION LIGHTHEADS



## ORION™ 600

| Model   | Part#         | Description            | Drawing# | Weight              | Dimensions  | Colors   | Lens  | Approvals                                    |
|---------|---------------|------------------------|----------|---------------------|---|--|---|--|
| OR6001G | 01-0771733-01 | Wingtip, Green, 12 VDC | 71733    | 0.5 lbs.<br>(227gm) | 2.04" (52mm) x<br>1.78" (45mm) x<br>5.65" (144mm) | Aviation Red<br>Aviation Green<br>Aviation White | Clear Polycarbonate<br>Hard-coat<br>(Field Replaceable) | FAA TSO-C96a, TSO-C30c Types II & III, E-TSO |
| OR6001R | 01-0771733-02 | Wingtip, Red, 12 VDC   |          |                     |   |  |   | FAA TSO-C96a, TSO-C30c Types I & III, E-TSO  |
| OR6002G | 01-0771733-11 | Wingtip, Green, 28 VDC |          |                     |   |  |   | FAA TSO-C96a, TSO-C30c Types II & III, E-TSO |
| OR6002R | 01-0771733-12 | Wingtip, Red, 28 VDC   |          |                     |   |  |   | FAA TSO-C96a, TSO-C30c Types I & III, E-TSO  |

Lens Part# 02-0371773-03

## ORION 650

| Model   | Part#         | Description           | Drawing# | Weight             | Dimensions  | Colors   | Lens  | Approvals                               |
|---------|---------------|-----------------------|----------|--------------------|---|--|---|---|
| OR6501G | 01-0790725-01 | Wingtip 12 VDC, Green | 90725    | .3 lbs.<br>(136gm) | 1.79" (45mm) x<br>3.95" (100mm) x<br>1.68" (43mm) | Aviation Red (left),<br>Aviation Green (right)<br>Aviation White | Clear Polycarbonate<br>Hard-coat<br>(Field Replaceable) | TSO/ETSO-C96a Class III / TSO/ETSO-C30c |
| OR6501R | 01-0790725-02 | Wingtip 12 VDC, Red   |          |                    |   |  |   | TSO/ETSO-C96a Class III / TSO/ETSO-C30c |
| OR6502G | 01-0790725-11 | Wingtip 28 VDC, Green |          |                    |   |  |   | TSO/ETSO-C96a Class III / TSO/ETSO-C30c |
| OR6502R | 01-0790725-12 | Wingtip 28 VDC, Red   |          |                    |   |  |   | TSO/ETSO-C96a Class III / TSO/ETSO-C30c |

Lens Part# 01-0251094-00

Supplement: STC SA800EA

## ORION 650E

| Model    | Part#         | Description            | Drawing# | Weight              | Dimensions                                       | Colors   | Lens | Approvals                                      |
|----------|---------------|------------------------|----------|---------------------|--|--|------|--|
| OR6501GE | 01-0790701-01 | Embedded 12 VDC, Green | 90701    | .26 lbs.<br>(118gm) | 1.67" (42mm) x<br>3.85" (98mm) x<br>2.20" (56mm) | Aviation Red (left),<br>Aviation Green (right)<br>Aviation White | -    | TSO/ETSO-C96a Class II / TSO/ETSO-C30c Type II |
| OR6501RE | 01-0790701-02 | Embedded 12 VDC, Red   |          |                     |  |  |      | TSO/ETSO-C96a Class II / TSO/ETSO-C30c Type I  |
| OR6502GE | 01-0790701-11 | Embedded 28 VDC, Green |          |                     |  |  |      | TSO/ETSO-C96a Class II / TSO/ETSO-C30c Type II |
| OR6502RE | 01-0790701-12 | Embedded 28 VDC, Red   |          |                     |  |  |      | TSO/ETSO-C96a Class II / TSO/ETSO-C30c Type I  |

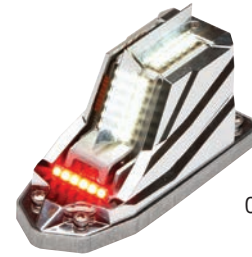
Supplement: STC SA800EA

**NOTE:** All non-FAA approved parts in this catalog are signified by a (—) in the approval column. Parts without FAA approval may still be purchased, however, installation of these parts on U. S. Type Certificated products will require additional FAA approvals.

# SELF-CONTAINED POSITION/ANTI-COLLISION LIGHTHEADS

## ORION™ SERIES CROSSOVER CHART

| Legacy Product Part Number | Legacy Product Model Number | Mounting Location | Orion Replacement Model Number  |
|----------------------------|-----------------------------|-------------------|---|
| 01-0770054-01              | A650PG28                    | Within Faring     | 01-0790701-11 / 01-0790701-12<br>OR6502GE / OR6502RE<br><br>*NOTE Not to be mounted on exterior of aircraft |
| 01-0770054-03              | A650PR28                    |                   |   |
| 01-0771110-03              | 7111003                     |                   |   |
| 01-0771110-04              | 7111004                     |                   |   |
| 01-0770001-42              | W1285PG28                   |                   |   |
| 01-0770001-52              | W1285PR28                   |                   |   |
| 01-0771105-03              | 7110503                     |                   |   |
| 01-0771105-04              | 7110504                     | Within Faring     | 01-0790701-01 / 01-0790701-02<br>OR6501GE / OR6501RE<br><br>*NOTE Not to be mounted on exterior of aircraft |
| 01-0770054-00              | A650PG14                    |                   |   |
| 01-0770054-02              | A650PR14                    |                   |   |
| 01-0771110-01              | 7111001                     |                   |   |
| 01-0771110-02              | 7111002                     |                   |   |
| 01-0770001-41              | W1285PG14                   |                   |   |
| 01-0770001-51              | W1285PR14                   |                   |   |
| 01-0771105-01              | 7110501                     | Wingtip Mounted   | 01-0790725-11 / 01-0790725-12<br>OR6502G/ OR6502R   |
| 01-0771105-02              | 7110502                     |                   |   |
| 01-0770054-01              | A650PG28                    |                   |   |
| 01-0770054-03              | A650PR28                    |                   |   |
| 01-0771110-03              | 7111003                     |                   |   |
| 01-0771110-04              | 7111004                     |                   |   |
| 01-0770001-42              | W1285PG28                   |                   |   |
| 01-0770001-52              | W1285PR28                   | Wingtip Mounted   | 01-0790725-01 / 01-0790725-02<br>OR6501G/ OR6501R   |
| 01-0771105-03              | 7110503                     |                   |   |
| 01-0771105-04              | 7110504                     |                   |   |
| 01-0770054-00              | A650PG14                    |                   |   |
| 01-0770054-02              | A650PR14                    |                   |   |
| 01-0771110-01              | 7111001                     |                   |   |
| 01-0771110-02              | 7111002                     |                   |   |
| 01-0770001-41              | W128514                     | Wingtip Mounted   | 01-0771733-11 / 01-0771733-12<br>OR6002G/ OR6002R   |
| 01-0770001-51              | W128514                     |                   |   |
| 01-0771105-01              | 7110501                     |                   |   |
| 01-0771105-02              | 7110502                     |                   |   |
| 01-0790006-03              | A600PR28                    |                   |   |
| 01-0790006-01              | A600PG28                    |                   |   |
| 01-0790340-03              | 9034003                     |                   |   |
| 01-0790340-04              | 9034004                     | Wingtip Mounted   | 01-0771733-01 / 01-0771733-02<br>OR6001G/ OR6001R   |
| 01-0790006-02              | A600PR14                    |                   |   |
| 01-0790006-00              | A600PG14                    |                   |   |
| 01-0790340-01              | 9034001                     |                   |   |
| 01-0790340-02              | 9034002                     |                   |   |
| 01-0770024-00              | A500AV14                    |                   |   |
| 01-0770034-00              | A555AV14                    |                   |   |
| 01-0770024-01              | A500AV28                    |                   |   |
| 01-0770034-01              | A555AV28                    | Tail Mounted      | 01-0771774V01<br>OR5002V  |



ORION650E



ORION650



ORION600



ORION500

NOTE: Any highlighted RED ITEMS will require extra wiring for Anti-Collision function of Orion Series



# ANTI-COLLISION / POSITION LIGHTS



## 7110 SERIES

7110 Series is a Wingtip mounted Strobe Anti-Collision/Position light assembly utilizing LEDs for the Forward Position lights. The LEDs provide a significant reduction in current draw over conventional position light bulbs. The strobe light lens assembly is radio-shielded for maximum EMI/RFI protection. Navigation light portion is wired with flying leads.



| Model   | Part#         | Description            | Drawing# | Weight            | Dimensions  | Lens   | Approvals                            |
|---------|---------------|------------------------|----------|-------------------|---|--|--------------------------------------|
| 7111001 | 01-0771110-01 | Position Green, 14 VDC | 71110    | 0.45 lbs. (204gm) | Exposed Height: 2.35" (60.69mm) x 1.78" (45.21mm) x 3.88" (98.55mm) | Clear RFI coated glass: strobe<br>Clear Polycarbonate: Navigation Lights | TSO-C96a Class II / TSO-C30c Type II |
| 7111002 | 01-0771110-02 | Position Red, 14 VDC   |          | 14 VDC            |   |  | TSO-C96a Class II / TSO-C30c Type I  |
| 7111003 | 01-0771110-03 | Position Green, 28 VDC |          | 0.50 lbs. (227gm) |   |  | TSO-C96a Class II / TSO-C30c Type II |
| 7111004 | 01-0771110-04 | Position Red, 28 VDC   |          | 28 VDC            |   |  | TSO-C96a Class II / TSO-C30c Type I  |

## 90340 & 90375 SERIES

90340 Series is an all inclusive Wingtip mounted Strobe Anti-Collision/Position Light assembly utilizing LEDs for both the Forward & Tail Position lights, eliminating the need for a tail mounted position light. The LED's provide a significant reduction in current draw over conventional position light bulbs. The strobe light lens assembly is radio-shielded for maximum EMI/RFI protection.

Direct replacement (exact footprint) for Whelen Model A600PG/PR Series (photo left) without replacing the current strobe power supply. Single set of flying leads operates both Forward and Tail Nav on 28 VDC version, and one set each of flying leads for the Forward and Tail Nav on the 14 VDC version.



| Model   | Part#         | Description                                       | Drawing# | Weight                      | Current Draw  | Dimensions  | Lens   | Approvals                                   |
|---------|---------------|---|----------|-----------------------------|---|---|--|---|
| 9034001 | 01-0790340-01 | Position Green, 14 VDC                            | 90340    | 0.60 lbs. (272gm)<br>14 VDC | LED Navigation Light Power Consumption: 0.5 amps @ 14 VDC, 0.25 amps @ 28 VDC | Exposed Height: 2.70" (69mm) x 1.87" (47.49mm) x 5.69" (144.52mm) | Clear RFI coated glass on strobe<br>Clear polycarbonate on Navigation lights | TSO-C96a Class II / TSO-C30c Types II & III |
| 9034002 | 01-0790340-02 | Position Red, 14 VDC                              |          |                             |   |   |  | TSO-C96a Class II / TSO-C30c Types I & III  |
| 9034003 | 01-0790340-03 | Position Green, 28 VDC                            |          |                             |   |   |  | TSO-C96a Class II / TSO-C30c Types II & III |
| 9034004 | 01-0790340-04 | Position Red, 28 VDC                              |          |                             |   |   |  | TSO-C96a Class II / TSO-C30c Types I & III  |
| 9037501 | 01-0790375-01 | Position Green, 28 VDC with shield. Cirrus Design | 90375    | 0.65 lbs. (295gm)<br>28 VDC |   |   |  | TSO-C96a Class II / TSO-C30c Types II & III |
| 9037502 | 01-0790375-02 | Position Red, 28 VDC with shield. Cirrus Design   |          |                             |   |   |  | TSO-C96a Class II / TSO-C30c Types I & III  |

**NOTE:** All non-FAA approved parts in this catalog are signified by a (—) in the approval column. Parts without FAA approval may still be purchased, however, installation of these parts on U. S. Type Certificated products will require additional FAA approvals.

# ANTI-COLLISION / POSITION LIGHTS



## A650 PG/PR SERIES

Wingtip with anti-collision & forward position lights. Can be used to convert non-Whelen position lights into a position/anti-collision light system. The small size allows for mounting into a wingtip enclosure. Available in 14 or 28 VDC and in a radio-shielded version. The forward position lamp is 26 watts.

| Model    | Part#         | Description                            | Drawing# | Weight           | Dimensions   | Lens                    | Approvals |
|----------|---------------|--|----------|------------------|--|-------------------------|-----------|
| A650P14  | 01-0770054-00 | Position Green, 14 VDC                 | 70054    | 0.6 lbs. (272gm) | Exposed Height:<br>2.4" (61 mm) x<br>1.75" (44.45mm) x<br>4.0" (102mm) | Heat resistant<br>glass | FAA/PMA   |
| A650PR14 | 01-0770054-02 | Position Red, 14 VDC                   |          |                  |  |                         |           |
| A650PGD1 | 01-0770054-04 | Position Green, radio shielded, 14 VDC |          |                  |  |                         |           |
| A650PRD1 | 01-0770054-06 | Position Red, radio shielded, 14 VDC   |          |                  |  |                         |           |
| A650PG28 | 01-0770054-01 | Position Green, 28 VDC                 |          |                  |  |                         |           |
| A650PR28 | 01-0770054-03 | Position Red, 28 VDC                   |          |                  |  |                         |           |
| A650PGD2 | 01-0770054-05 | Position Green, radio shielded, 28 VDC |          |                  |  |                         |           |
| A650PRD2 | 01-0770054-07 | Position Red, radio shielded, 28 VDC   |          |                  |  |                         |           |

Supplement: STC SA800EA  
PMA 8



## A600 PG/PR SERIES

Wingtip anti-collision, forward position and tail position lights, all in one compact unit. Tail position light eliminates the need for a tail mounted position light. Available in 14 or 28 VDC and in a radio-shielded version. The forward position lamp is 26 watts and the taillight lamp is 25 watts.

| Model    | Part#         | Description   | Drawing# | Weight              | Dimensions   | Available Colors               | Lens                    | Approvals                |
|----------|---------------|---|----------|---------------------|--|--------------------------------|-------------------------|--------------------------|
| A600PG14 | 01-0790006-00 | Position Green, 14 VDC  | 90006    | 0.8 lbs.<br>(363gm) | Exposed Height:<br>2.4" (61mm) x<br>1.7" (43mm) x<br>5.63" (143mm) | Aviation Green<br>Aviation Red | Heat resistant<br>glass | FAA TSO-C30b/<br>FAA/PMA |
| A600PGD1 | 01-0790006-04 | Position Green, radio shielded, 14 VDC                        |          |                     |  |                                |                         |                          |
| A600PR14 | 01-0790006-02 | Position Red, 14 VDC  |          |                     |  |                                |                         |                          |
| A600PR28 | 01-0790006-03 | Position Red, 28 VDC  |          |                     |  |                                |                         |                          |
| A600PG28 | 01-0790006-01 | Position Green, 28 VDC  |          |                     |  |                                |                         |                          |
| A600PGD2 | 01-0790006-05 | Position Green, radio shielded, 28 VDC                        |          |                     |  |                                |                         |                          |
| A600PGD2 | 01-0790006-05 | Position Green, radio shielded, 28 VDC                        |          |                     |  |                                |                         |                          |
| A600PRD2 | 01-0790006-07 | Position Red, radio shielded, 28 VDC                          |          |                     |  |                                |                         |                          |
| 9000612  | 01-0790006-12 | Position Green, radio shielded, used on Cirrus Design, 28 VDC |          |                     |  |                                |                         | FAA TSO-C30b             |
| 9000613  | 01-0790006-13 | Position Red, radio shielded, used on Cirrus Design, 28 VDC   |          |                     |  |                                |                         |                          |

Supplement: PMA 9 (except A600PGD1)



Uses flasher 7123403.  
Purchased separately.

## 71170 SERIES

An all LED Forward Position and Anti-Collision light assembly includes a Red flashing portion to be used as a Ground Recognition light. Red "Ground Recognition Light" cannot be activated simultaneously with White ACL light. This light is intended for use as a system with 9048200 and 7123403 Series lighthead and flasher/current sources.

| Model   | Part#         | Description  | Drawing# | Weight              | Dimensions  | Available Colors        | Approvals                                |
|---------|---------------|--|----------|---------------------|---|-------------------------|--|
| 7117001 | 01-0771170-01 | LED POS (Green)/ACL (White), GND REC (Red), 28 VDC | 71170    | 0.8 lbs.<br>(363gm) | Exposed Height:<br>2.33" (59mm) x<br>1.77" (50mm) x<br>3.86" (98mm) | Red, Green<br>and White | FAA TSO-C96a Class II / TSO-C30c Type II |
| 7117002 | 01-0771170-02 | LED POS (Red)/ACL (White), GND REC (Red), 28 VDC   |          |                     |   |                         | FAA TSO-C96a Class II / TSO-C30c Type I  |

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# ANTI-COLLISION / POSITION LIGHTS

## 90325 SERIES

Model 90325 and 71120 (current source) are an all LED upgrade to Cessna Citation wingtip strobe legacy products manufactured by Whelen. A direct replacement for Whelen's 90206 wingtip products. Will not work for 900159. The 90325 will retrofit Models 550, S550, 560 or is able to be modified to fit other wings of similar design. 90325 ships with a 24" cable harness that mate to 71120. Available in 28V Only.



| Model   | Part#         | Description                                 | Drawing# | Weight              | Dimensions   | Lens                               | Approvals                                      |
|---------|---------------|---|----------|---------------------|--|------------------------------------|--|
| 9032501 | 01-0790325-01 | LED Position/Anti-Collision (Green), 28 VDC | 90325    | 1.2 lbs.<br>(544gm) | Exposed Height:<br>2.61" (66 mm) x<br>3.11" (79mm) x<br>10.24" (6mm) | Clear<br>Polycarbonate<br>Hardcoat | FAA TSO-C96a Class II /TSO C30c Types I & III  |
| 9032502 | 01-0790325-02 | LED Position/Anti-Collision (Red), 28 VDC   |          |                     |  |                                    | FAA TSO-C96a Class II /TSO C30c Types II & III |

## 71120 SERIES

Model 71120 (current source) drives light head model 90325. 71120 are designed to fit the strobe power supply footprint used in Citation wingtips. Available in 28V Only.



| Model   | Part#         | Description                          | Drawing# | Weight               | Current Draw   | Dimensions  | Approvals                                |
|---------|---------------|--------------------------------------|----------|----------------------|--|---|--|
| 7112000 | 01-0771120-00 | LED flasher / Current source, 28 VDC | 71120    | 0.95 lbs.<br>(431gm) | LED Forward/Tail Position: 25a<br>LED Anti-collision: 0.85a Average, 4.5a Peak | 2.53" (64mm) x<br>5.6" (142mm) x<br>4.63" (118mm) | TSO-C96a TSO-C30c*<br>* with Model 90325 |



**"...AN ALL LED UPGRADE TO  
CESSNA CITATION WINGTIP STROBE  
LEGACY PRODUCTS "**

# ANTI-COLLISION / POSITION LIGHTS



## 90569 SERIES

90569 Series is a Forward and Aft LED POS/ACL assembly with Integrated Red LED Ground Recognition lights. 90569 is a LED head assembly only, powered by Whelen Model 71457 Flasher/Current Source designed to be mounted within 12 inches of the lighthouse assembly. Unit complies with TSO-C96a Class II (400 ecp) anti-collision light requirements, and TSO-C30c forward position light requirements. Model 90569 is a direct mechanical replacement for A600/90340 (with adapter). Ships with 12" of cable wiring into an amp connector. Available in 28 VDC.

| Model   | Part#         | Description                                    | Drawing# | Weight             | Dimensions   | Lens                   | Approvals                                  |
|---------|---------------|--|----------|--------------------|--|------------------------|--|
| 9056901 | 01-0790569-01 | LED FWD/AFT POS/ACL, Green, Ground/Rec, 28 VDC | 90569    | 0.5 lbs<br>(227gm) | Exposed Height:<br>2.01" (50.8mm) x<br>1.77" (44.96mm) x<br>5.61" (142.49mm) | Clear<br>Polycarbonate | TSO-C96a Class II /TSO-C30c Types II & III |
| 9056902 | 01-0790569-02 | LED FWD/AFT POS/ACL, Red, Ground/Rec, 28 VDC   |          |                    |  |                        | TSO-C96a Class II /TSO-C30c Types I & III  |
| 9056903 | 01-0790569-03 | LED POS (Green)/ACL (White)                    |          |                    |  |                        | TSO-C96a Class II /TSO-C30c Types II & III |
| 9056904 | 01-0790569-04 | LED POS (Red)/ACL (White)                      |          |                    |  |                        | TSO-C96a Class II /TSO-C30c Types I & III  |
| 9056905 | 01-0790569-05 | LED AC/POS (Green) - Cirrus                    |          |                    |  |                        | TSO-C96a Class II /TSO-C30c Types II & III |
| 9056906 | 01-0790569-06 | LED AC/POS (Red) - Cirrus                      |          |                    |  |                        | TSO-C96a Class II /TSO-C30c Types I & III  |
| 9056951 | 01-0790569-51 | LED POS (Green)/ACL (White), Ground/Rec, (IR)  |          |                    |  |                        | TSO-C96a Class II /TSO-C30c Types II & III |
| 9056952 | 01-0790569-52 | LED POS (Red)/ACL (White), Ground/Rec, (IR)    |          |                    |  |                        | TSO-C96a Class II /SO-C30c Types I & III   |



## MODEL 71457

Model 71457 is our combination Flasher and Current source for 90569 Series (and other applications) Forward and Aft POS/ACL assembly with integrated Red LED Ground Recognition lights. Model 71457 LED Flasher/Current source is designed to be mounted within 12" of the lighthouse assembly. Unit complies with TSO-C96a Class II (400 ecp) anti-collision light requirements, and TSO-C30c forward position light requirements. Power Input Connector sold separately, entry level unit (shown) uses CPC 205841-1 connectors. Available in 28 VDC only.

| Model   | Part#         | Description                                    | Drawing# | Weight                 | Dimensions  | Current Draw  | Approvals                                |
|---------|---------------|--|----------|------------------------|---|---|--|
| 7145700 | 01-0771457-00 | LED Flasher/Current Source, 28 VDC             | 71457    | 0.58 lbs<br>(263.08gm) | 1.38" (35.05mm) x<br>3.67" (93.22mm) x<br>4.6" (116.84mm) | See 71457 (0.2 Amps Fwd & Aft Pos),<br>(0.8 Amps Average ACL) | TSO-C96a TSO-C30c*<br>* with Model 90569 |
| 7145701 | 01-0771457-01 | LED Flasher/Current Source, 28 VDC<br>(Cirrus) |          |                        |   | 0.23 Amps Pos<br>0.73 Amps Average Anti-collision             | TSO-C96a TSO-C30c                        |

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# ANTI-COLLISION / POSITION LIGHTS

## 90159 & 90206 SERIES

90159 Series Wingtip strobe anti-collision & navigation light assembly, STC #ST22B0 for Cessna Citation models 550, S550, and 560. Can be installed on other aircraft with minor modifications. Unit will replace 30-1085 assemblies. 90206 Series Wingtip strobe anti-collision & navigation light assembly, STC #ST00101B0 for Cessna Citation Model 560, Serial Numbers 257 and up. Unit will replace 30-1085 assemblies.



| Model   | Part#         | Description                            | Drawing# | Weight              | Dimensions   | Colors   | Lens  | Approvals  |
|---------|---------------|--|----------|---------------------|--|--|-------|--|
| 9015905 | 01-0790159-05 | Left Wingtip, no Tail Position Light   | 90159    | 1.9 lbs.<br>(862gm) | Exposed Height:<br>3.6" (91mm) x<br>3.06" (78mm) x<br>11.03" (280mm) | Aviation Red<br>Aviation Green<br>Aviation White | Glass | FAA TSO-C96a Class II /FAA TSO-C30c Types I        |
| 9015906 | 01-0790159-06 | Right Wingtip, no Tail Position Light  |          |                     |  |  |       | FAA TSO-C96a Class II /FAA TSO-C30c Types II       |
| 9020603 | 01-0790206-03 | Left Wingtip, no Tail Position Light   | 90206    |                     |  |  |       | FAA TSO-C96a Class II /FAA TSO-C30c Types I        |
| 9020604 | 01-0790206-04 | Right Wingtip, no Tail Position Light  |          |                     |  |  |       | FAA TSO-C96a Class II /FAA TSO-C30c Types II       |
| 9020607 | 01-0790206-07 | Left Wingtip with Tail Position Light  |          |                     |  |  |       | FAA TSO-C96a Class II /FAA TSO-C30c Types I & III  |
| 9020608 | 01-0790206-08 | Right Wingtip with Tail Position Light |          |                     |  |  |       | FAA TSO-C96a Class II /FAA TSO-C30c Types II & III |

## A625 SERIES

A625 Series has many different applications. It can be used for aircraft with tip-tanks with enclosed Position lights (under a fairing), or as an add-on strobe on the wing or the tail. Available in a radio-shielded version.



| Model   | Part#         | Description                                      | Drawing# | Weight              | Dimensions  | Colors            | Lens                    | Approvals |
|---------|---------------|--|----------|---------------------|---|-------------------|-------------------------|-----------|
| A625    | 01-0770058-03 | Standard unit, Clear lens                        | 70058    | 0.3 lbs.<br>(136gm) | Exposed Height: 1.7"<br>(43.18mm) x 2.12"<br>(53.84mm) x<br>2.80" (71.12mm) | Aviation<br>White | Radio-Shielded<br>Glass | FAA/PMA   |
| A625D   | 01-0770058-13 | Radio-shielded, Clear lens <b>NSN</b>            |          |                     |   |                   |                         | FAA/PMA   |
| A625R   | 01-0770058-04 | Standard unit, Red lens                          |          |                     |   |                   |                         | -         |
| A625DR  | 01-0770058-14 | Radio-shielded, Red lens                         |          |                     |   |                   |                         | -         |
| 7005815 | 01-0770058-15 | Radio-shielded, 3/C cable, 12" ground braid      |          |                     |   |                   |                         | -         |
| 7005816 | 01-0770058-16 | Radio-shielded, 24" 3/C cable, with MS connector |          |                     |   |                   |                         | -         |

Supplement: PMA# 12

## A650 SERIES

A650 Series converts W1285 Position lights into a position/anti-collision system by removing the existing retainer & replacing it with the A650 assembly. Radio-shielded version available.



| Model | Part#         | Description    | Drawing# | Weight             | Dimensions   | Colors                  | Approvals |
|-------|---------------|----------------|----------|--------------------|--|-------------------------|-----------|
| A650  | 01-0770053-00 | Standard unit  | 70053    | 0.2 lbs.<br>(91gm) | Exposed Height: 2.4" (61mm) x<br>1.75" (44.45mm) x 2.70" (60.58mm) | Clear<br>Aviation White | FAA PMA   |
| A650D | 01-0770053-13 | Radio-shielded |          |                    |  |                         |           |

Supplement: PMA# 8

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# ANTI-COLLISION / POSITION LIGHTS



## 70821

70821 Series is a Remote Streamlined Strobe light assembly. Easily mounted on the wingtip for anti-collision or on the vertical fin for ground recognition. It is recommended for the wingtips on Cessna single engine aircraft 1970-71. Its sleek aerodynamic shape allows it to be mounted where surface area is at a premium, or to simply "clean-up" the look of the airplane. It can be added as a low profile ground recognition light when mounted on the vertical fin or fuselage. A mounting adapter plate facilitates mounting.

| Model   | Part#         | Description                | Drawing# | Weight           | Dimensions  | Colors                         | Lens  |
|---------|---------------|----------------------------|----------|------------------|---|--------------------------------|-------|
| 7082100 | 01-0770821-00 | Standard unit, Clear lens  | 70821    | 0.3 lbs. (136gm) | Exposed Height: 1.8"<br>(46mm) x<br>1.8" (46mm) x<br>3.5 (89mm) | Aviation Red<br>Aviation White | Glass |
| 7082101 | 01-0770821-01 | Radio-shielded, Clear lens |          |                  |   |                                |       |
| 7082102 | 01-0770821-02 | Standard unit, Red lens    |          |                  |   |                                |       |
| 7082103 | 01-0770821-03 | Radio-shielded, Red lens   |          |                  |   |                                |       |



## 50626 SERIES

50626 Series Strobe Tube assemblies are used with model numbers listed in chart below.

| Model   | Part#         | Description                             | Weight             | Dimensions                                       | Lens                 | Used On  |
|---------|---------------|---|--------------------|--|----------------------|--|
| 5062600 | 36-0050626-00 | Strobe tube assembly, 6" long           | 0.3lbs.<br>(136gm) | Exposed Height:<br>2.25" (57mm) x<br>2.5" (64mm) | Clear Pyrex<br>Glass | Model 9011102  |
| 5062601 | 36-0050626-01 | Strobe tube assembly, 6" long w/grommet |                    |  |                      | Model 9034000 thru 07, 20, 21<br>Model 7111001 thru 04 |
| 5062602 | 36-0050626-02 | Strobe tube assy, 12.5" long w/grommet  |                    |  |                      | Model 9034008, 09                                      |
| 5062603 | 36-0050626-03 | Strobe tube assy, 2" long w/grommet*    |                    |  |                      | Model 9037501, 02                                      |

\* = Cirrus 90375 replacment tube



## A610 FLASH TUBE & A612 GLASS LENS

A610 flash tube and A612 glass lens are used for installing wingtip strobes in single engine Cessnas 1972 and later. The existing position light retainer is modified to accommodate the lens, and the flash tube is mounted directly behind. The A612 lens unique magnifying design increases the horizontal plane's light intensity by two to three times. They are used for custom installations or spare parts for existing light assemblies. The A612 lens is available in Aviation Red and an RFI coated version. Lenses meet material requirements of MIL-C-7989B Class B.



| Model   | Part#         | Description                 | Drawing# | Weight           | Dimensions   | Lens                                       |
|---------|---------------|-----------------------------|----------|------------------|--|--|
| A610    | 02-0250276-00 | Standard unit, 6" leads NSN | 50276    | 0.09 lbs. (41gm) | A610:<br>1.6" (40.64mm) H x<br>1.12" (28.39mm) W<br>x 1.56" (39.64mm) L<br>A612:<br>1.6" (40.64mm) H x<br>1.75" (44mm) Dia | A612:<br>RF Coated Clear<br>& Aviation Red |
| A610M   | 02-0250276-03 | Molex connector, 6" leads   | -        | -                |  |  |
| 5027601 | 02-0250276-01 | 14" leads                   | -        | -                |  |  |
| 5027602 | 02-0250276-02 | 12.5" leads                 | -        | -                |  |  |
| A612    | 68-2290005-30 | Standard Clear lens         | 90005    | 0.08 lbs. (36gm) |  |  |
| A612C   | 68-2290005-34 | Radio-shielded, Clear lens  | -        | -                |  |  |
| A612R   | 68-2290005-50 | Standard Red lens           | -        | -                |  |  |
| A612RC  | 68-2290005-54 | Radio-shielded, Red lens    | -        | -                |  |  |

## A450 SERIES - REMOTE STROBE - FUSELAGE/VERTICAL

Model A450 remote strobe light assembly is compatible with all Whelen power supplies. It can be installed on the fuselage or the vertical fin. The Pyrex® Glass lens (Clear only) makes the assembly suitable for use in severe vibration, chemical and moisture conditions (i.e. agricultural aircraft). Requires either the Model H102 or Model H103 mounting adapter.



| Model | Part#         | Description                   | Drawing# | Weight          | Dimensions                                    | Lens              |
|-------|---------------|-------------------------------|----------|-----------------|---|-------------------|
| A450  | 01-0770032-00 | Standard assembly, Clear lens | 70032    | 0.3lbs. (136gm) | Exposed Height:<br>2.25" (57mm) x 2.5" (64mm) | Clear Pyrex Glass |

## 71560 SERIES - LED VERTICAL FIN GROUND RECOGNITION

7156000 Replaces 7078600 & 7105000 and is utilized on Cessna single engine restart aircraft.



| Model   | Part#         | Description                       | Drawing# | Weight          | Dimensions                                       | Colors | Lens                |
|---------|---------------|-----------------------------------|----------|-----------------|--|--------|---------------------|
| 7156000 | 01-0771560-00 | 28 V LED ground recognition light | 71560    | 0.2 lbs. (97gm) | 1.39" (35mm) x<br>2.47" (63mm) x<br>2.09" (53mm) | Red    | Clear Polycarbonate |

## 90111 SERIES - REMOTE STROBE - TAIL

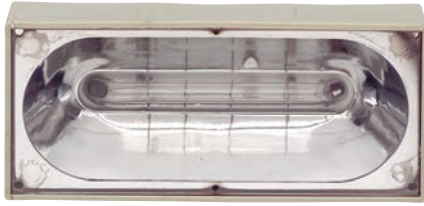
90111 Series Remote Strobe light assembly is compatible with all Whelen power supplies. Can be installed on the wingtip or the tail.



| Model   | Part#         | Description                       | Drawing# | Weight           | Dimensions   | Colors                | Lens  |
|---------|---------------|-----------------------------------|----------|------------------|--|-----------------------|-------|
| 9011100 | 01-0790111-00 | Shielded, Clear lens (BeechJet)   | 90111    | 0.5 lbs. (227gm) | 2.20" (55.88mm) x<br>1.75" (44.45mm) x<br>2.5" (63.50mm) | Aviation Red<br>Clear | Glass |
| 9011102 | 01-0790111-02 | Shielded, masked Red lens (Piper) |          |                  |  |                       |       |

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# ANTI-COLLISION / POSITION LIGHTS



## 90028 SERIES - WINGTIP STROBE LIGHT

90028 Series Wingtip Strobe light is used on Beech aircraft with commonality wingtip 1974 & later. It is a direct replacement for 30-0467-( ), 30-1331-( ) and the 30-1467-( ) Series.

| Model   | Part#         | Description  | Drawing# | Weight              | Dimensions                                 | Colors | Lens |
|---------|---------------|--|----------|---------------------|--|--------|------|
| 9002800 | 01-0790028-00 | Replacement flash tube assembly, unpainted             | 90028    | 0.4 lbs.<br>(181gm) | Exposed:<br>1.87" (48mm) x<br>2.25" (57mm) | Clear  | -    |
| 9002801 | 01-0790028-01 | Replacement flash tube assembly, painted (White)       |          |                     |  |        |      |
| D900283 | 01-0790028-03 | Wingtip light assembly, 45° mounting bracket           |          |                     |  |        |      |
| D900285 | 01-0790028-05 | Tailight assembly, 90° mounting bracket                |          |                     |  |        |      |
| D900287 | 01-0790028-07 | Wingtip light assembly, 45° mtg. bracket, MS connector |          |                     |  |        |      |
| D900289 | 01-0790028-09 | Tailight assembly, 90° mounting bracket, MS connector  |          |                     |  |        |      |



## A470A SERIES - REMOTE STROBE LIGHT

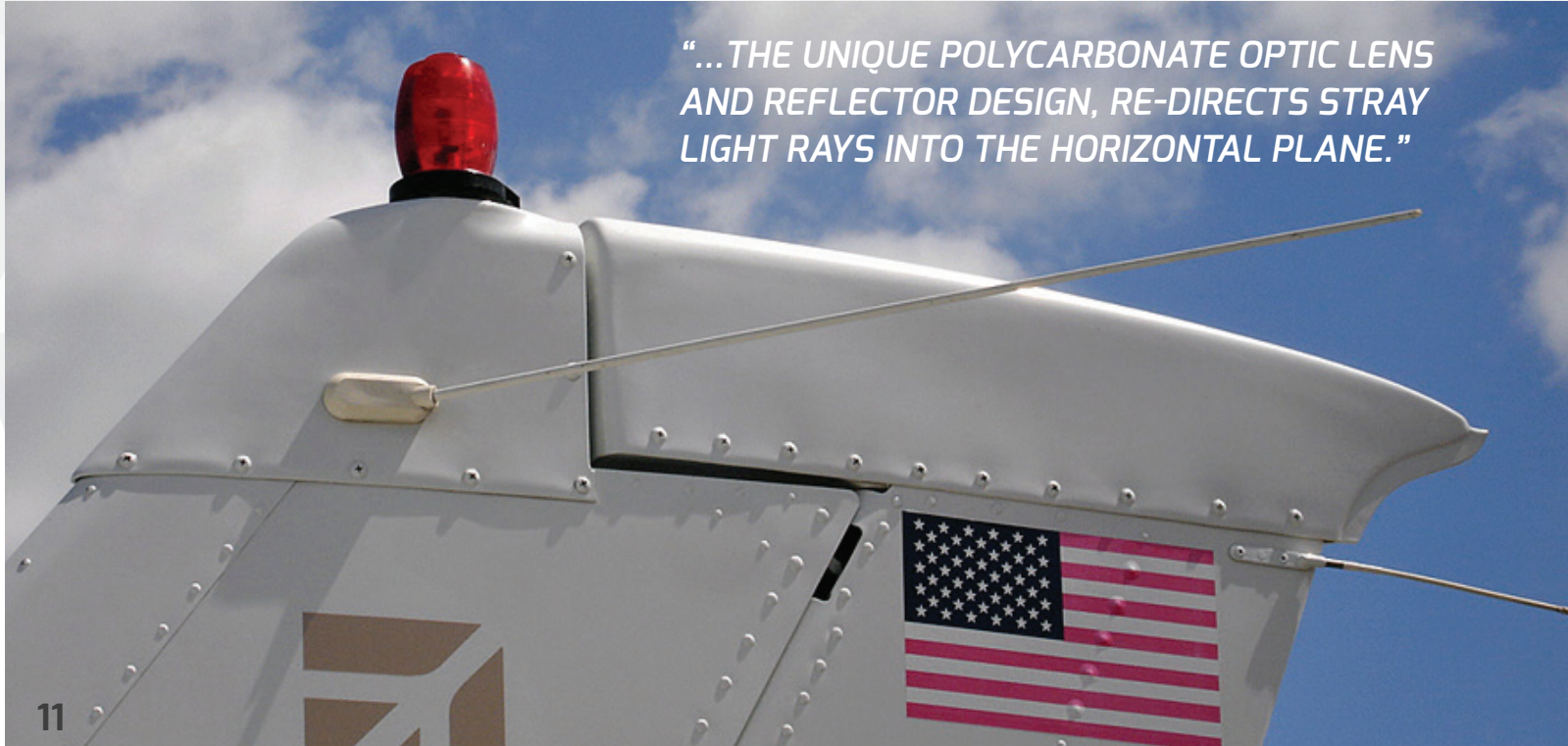
A470A Series Remote Strobe Light assembly is compatible with all Whelen power supplies. It can be installed on the fuselage or the vertical fin. The unique polycarbonate optic lens and reflector design re-directs stray light rays into the horizontal plane to provide the maximum 360° of uniform light coverage possible. Available in three different lens colors, Aviation Red, Aviation White and split Aviation Red/White. Available in radio-shielded configurations. All assemblies require either the Model H102 or H103 mounting adapter.

| Model   | Part#         | Description  | Drawing# | Weight              | Dimensions                           | Colors                          | Lens          | Approvals |
|---------|---------------|--|----------|---------------------|--------------------------------------|---------------------------------|---------------|-----------|
| A470AR  | 01-0770019-18 | Standard assembly, Red lens NSN (a)                | 70019    | 0.3 lbs.<br>(136gm) | 3.50" (88.90mm) x<br>2.58" (66.53mm) | Red, White<br>Split (Red/White) | Polycarbonate | FAA/PMA   |
| A470AW  | 01-0770019-19 | Standard assembly, White lens NSN (b)              |          |                     |                                      |                                 |               | FAA/PMA   |
| A470AS  | 01-0770019-20 | Standard assembly, split Red/White lens NSN (*)    |          |                     |                                      |                                 |               | FAA/PMA   |
| A470ADR | 01-0770019-21 | Radio-shielded assembly, Red lens                  |          |                     |                                      |                                 |               | FAA/PMA   |
| A470ADW | 01-0770019-22 | Radio-shielded assembly, White lens                |          |                     |                                      |                                 |               | FAA/PMA   |
| A470ADS | 01-0770019-23 | Radio-shielded ass'y, split Red/White lens NSN (c) |          |                     |                                      |                                 |               | FAA/PMA   |

(a) 6220-14851001, (b) 6340-14331362, (c) 6220-13844609

Supplement: PMA# 2

*"...THE UNIQUE POLYCARBONATE OPTIC LENS AND REFLECTOR DESIGN, RE-DIRECTS STRAY LIGHT RAYS INTO THE HORIZONTAL PLANE."*



# ANTI-COLLISION / POSITION LIGHTS



## H102 & H103 - ADAPTERS

Designed for the Model A470A or Model A450 Series Remote Strobe lighthouse assemblies. The Model H102 allows flush mounting of the lighthouse to the skin of the fuselage or the vertical stabilizer on later model Cessna Single engines. The H103 is designed for strobe assemblies to be installed in the standard 3-3/4" (95mm) dia. rotating beacon mounting hole.



| Model | Part#         | Description                   | Drawing# | Weight | Dimensions                        | Approvals |
|-------|---------------|-------------------------------|----------|--------|-----------------------------------|-----------|
| H102  | 07-730068-000 | Flush mount adapter NSN       | 30068    | -      | 0.15" (3.8mm) x 2.49" (66.24mm)   | FAA/PMA   |
| H103  | 11-230079-000 | Rotating beacon mount adapter | 30079    | -      | 1.38" (35.05mm) x 3.69" (93.82mm) | -         |

Supplement: PMA# 13

## A440 SERIES

A440 mounting adapter is for fuselage installations for the HRCFA Series LED Beacons, and SACF Series Beacons.



| Model | Part#         | Description      | Drawing# | Approvals |
|-------|---------------|------------------|----------|-----------|
| A440  | 19-130074-009 | Mounting adapter | 30079    | -         |

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# ANTI-COLLISION / POSITION LIGHTS



## A500A SERIES - COMBINATION STROBE/TAIL NAVIGATION LIGHT

A500A Series Combination Strobe/Tail Navigation Light is used when the wingtip anti-collision lights are mounted in an enclosure and can't provide 360° of strobe coverage. It is a direct replacement for the standard tail position light. Available in a radio-shielded version. Voltage (14 or 28) and mounting (horizontal or vertical) must be specified when ordering.

| Model    | Part#         | Description                            | Drawing# | Weight              | Dimensions                           | Color             | Lens  | Approvals         |
|----------|---------------|--|----------|---------------------|--------------------------------------|-------------------|-------|-------------------|
| A500AV14 | 01-0770024-00 | Vertical mount, 14 VDC                 | 70024    | 0.3 lbs.<br>(136gm) | Exposed:<br>1.7" (43mm x 1.5" (38mm) | Aviation<br>White | Glass | FAA/PMA, TSO-C30b |
| A500AH14 | 01-0770024-02 | Horizontal mount, 14 VDC               |          |                     |                                      |                   |       | FAA/PMA, TSO-C30b |
| A500AV28 | 01-0770024-01 | Vertical mount, 28 VDC                 |          |                     |                                      |                   |       | FAA/PMA, TSO-C30b |
| A500AVD2 | 01-0770024-05 | Vertical mount, radio-shielded, 28 VDC |          |                     |                                      |                   |       | FAA/PMA, TSO-C30b |
| A500ASP2 | 01-0770024-25 | Vertical mount, 50" cables, 28 VDC     |          |                     |                                      |                   |       | No connector      |
| A500ABV2 | 01-0770024-15 | Beech Special, MS connector, 24 VDC    |          |                     |                                      |                   |       | -                 |

Supplement: PMA# 7



Uses flasher 7123403,  
purchased separately.



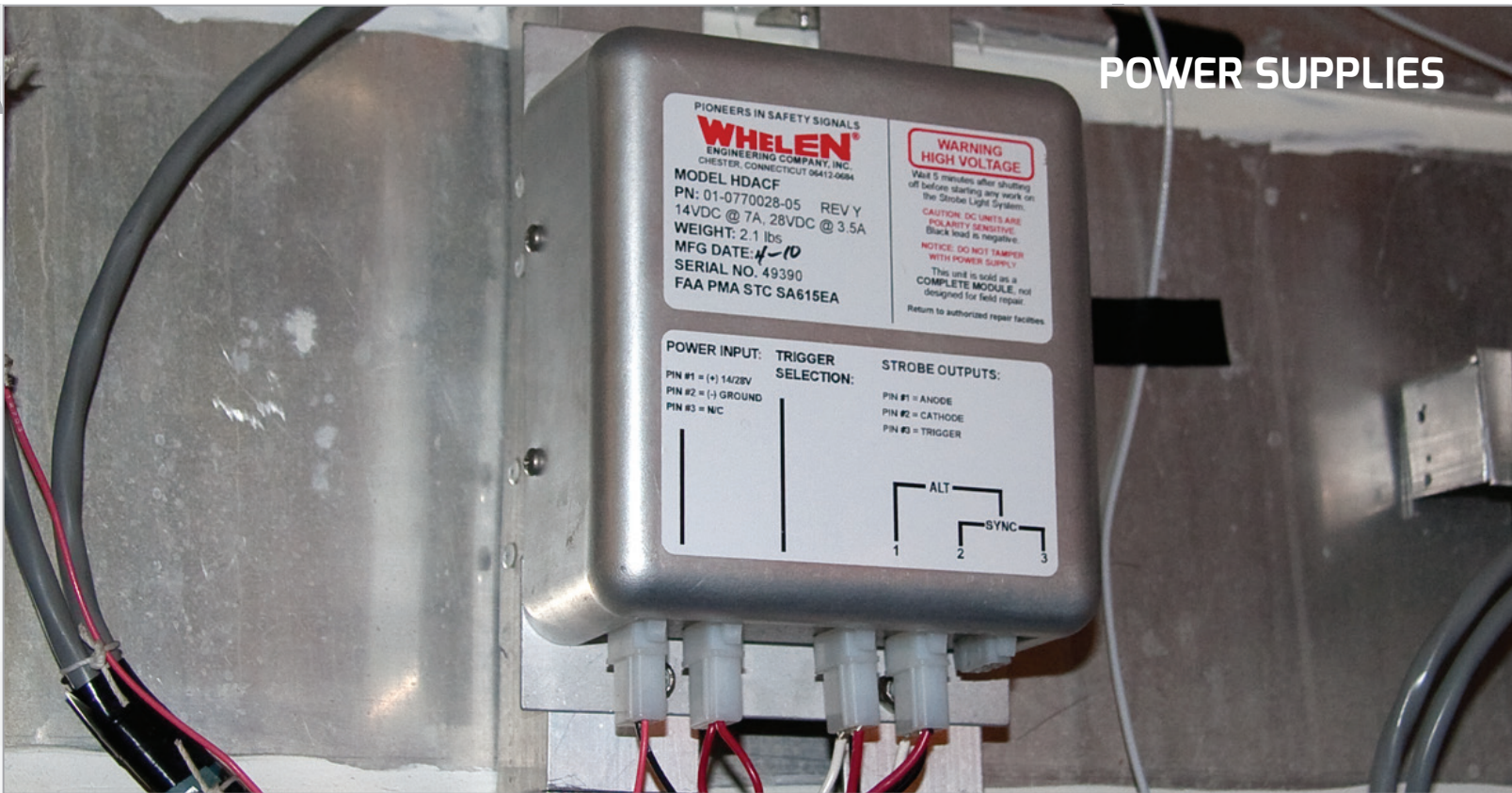
## 90482 SERIES

Model 90482 is a compact upgraded version of the 90354 Tail assembly (shown in 2008 catalog). Aft Position light with White Anti-Collision light combination includes a Red flashing portion used as a Ground Recognition light. Red Ground Recognition and White Anti-Collision lighting can not be activated simultaneously. This light is intended for use as a system with 71170 series lighthead and Model 7123403 Flasher/Current source for complete aircraft coverage. Item does not include interconnect cable for Flasher/Current source.

| Model   | Part#         | Description  | Drawing# | Weight               | Dimensions   | Color             | Lens                   | Approvals                       |
|---------|---------------|--|----------|----------------------|--|-------------------|------------------------|---------------------------------|
| 9048200 | 01-0790482-00 | Aft Position/ACL (White) with ground recognition (Red) | 90482    | 0.35 lbs.<br>(159gm) | Exposed Height:<br>3.60" (91mm) x 1.25"<br>(32mm) x 1.78" (45mm) | Aviation<br>White | Clear<br>Polycarbonate | FAA TSO-C96a/ TSO-C30c Type III |
| 9048202 | 01-0790482-02 | LED tail nav/ground recognition anti-collision light   |          |                      | Exposed Height:<br>3.60" (91mm) x 1.40"<br>(36mm) x 1.56" (40mm) |                   |                        | TSO-C96a/ TSO-C30c              |







## CHOOSING A POWER SUPPLY....

The power supply needed depends on the application, and the mounting location. Model HDACF Series is a fuselage mounted power supply that will power two or three lights. Model A490ATSC Series is designed for installation adjacent to the strobe lighthead and will power one light assembly. Model A490TCF Series is the most economical power supply when adding only one light. It mounts adjacent to the strobe lighthead assembly (not legal for light output with Red strobe light).

Most other Whelen power supplies are application specific, contact factory for details. Unless otherwise noted, all power supplies are CometFlash. Whelen Engineering is proud to have introduced the CometFlash CF, a major advancement in the field of safety lighting. By pulsing the flash tube four times in rapid succession, the effective “on-time” of the strobe is increased from 2/1000 of a second to 4/10 of a second. This increases your airplane’s visibility. The development of the CometFlash reflects Whelen’s dedication to safety.

## HDACF SERIES - STROBE POWER SUPPLY

Model HDACF Series provides simultaneous flashing, alternate flashing or both. It will operate one, two or three strobe lighthead. Operating the wingtip strobes in the alternating mode will provide an accumulated 42 joules of power to each light. When in the simultaneous mode, the accumulated power to each light is 21 joules. In the three light mode, the wingtips will flash simultaneous at an accumulated 21 joules each, they alternate with a third light operating at an accumulated 42 joules. On the trigger selector outlet, a switch mounted in place of the jumper will allow wingtip outlets 2 & 3 to be turned off, while the tail outlet 1 will remain on. This function is commonly used when the third light is for ground operations. This power supply will operate from 10 to 30 VDC.








| Model | Part#         | Description             | Drawing# | Weight           | Dimensions                                  | Current Draw                            |
|-------|---------------|-------------------------|----------|------------------|---|---|
| HDACF | 01-0770028-05 | A413AHDACF power supply | 70028    | 2.1 lbs. (953gm) | 2.37" (60mm) x 5.0" (127mm) x 5.50" (140mm) | 7.0 amps @ 14 VDC;<br>3.5 amps @ 28 VDC |

Supplement: **STC SA615EA**  
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# STROBE POWER SUPPLY REPLACEMENT GUIDE

| Old Part#          | Old Model#    | Description   | Current replacement   |   |
|--------------------|---------------|---|---|---|
| A413,HS-41-14      | HS, 41        | Single strobe unit, SingleFlash, 14 VDC, 33 joule                 | Model HDACF<br>P/N 01-0770028-05<br>   |   |
| A413,HS-41-28      | HS, 41        | Single strobe unit, SingleFlash, 28 VDC, 33 joule                 |   |   |
| A413,HD-14         | HD            | Dual strobe unit, SingleFlash, 14 VDC, alternating                |   |   |
| A413,HD-28         | HD            | Dual strobe unit, SingleFlash, 28 VDC, alternating                |   |   |
| A413,HD-42-14      | HD, 42        | Dual strobe unit, SingleFlash, 14 VDC, alternating, 33 joule      |   |   |
| A413,HD-42-28      | HD, 42        | Dual strobe unit, SingleFlash, 28 VDC, alternating, 33 joule      |   |   |
| A413,T2-14         | HD, T2        | Dual strobe unit, SingleFlash, 14 VDC, simultaneous, 16 joule     |   |   |
| A413,T2-28         | HD, T2        | Dual strobe unit, SingleFlash, 28 VDC, simultaneous, 16 joule     |   |   |
| A413,T2-DF-14      | HD, T2, DF    | Dual strobe unit, DoubleFlash, 14 VDC, simultaneous, 16 joule     |   |   |
| A413,T2-DF-28      | HD, T2, DF    | Dual strobe unit, DoubleFlash, 28 VDC, simultaneous, 16 joule     |   |   |
| A413,T3-14         | HD, T3        | 3 strobe unit, SingleFlash, 14 VDC, w/trigger function            |   |   |
| A413,T3-28         | HD, T3        | 3 strobe unit, SingleFlash, 28 VDC, w/trigger function            |   |   |
| A413,HD,DF-14      | HD, DF        | 3 strobe unit, DoubleFlash, 14 VDC                                |   |   |
| A413,HD,DF-28      | HD, DF        | 3 strobe unit, DoubleFlash, 28 VDC                                |   |   |
| A413,T3-DF-14      | HD, T3, DF    | 3 strobe unit, DoubleFlash, 14 VDC, w/trigger function            |   |   |
| A413,T3-DF-28      | HD, T3, DF    | 3 strobe unit, DoubleFlash, 28 VDC, w/trigger function            |   |   |
| A413A,HDA-DF-14    | HDA, DF-14    | 4 strobe unit, DoubleFlash, 14 VDC                                |   |   |
| A413A,HDA-DF-28    | HDA, DF-28    | 4 strobe unit, DoubleFlash, 28 VDC                                |   |   |
| A413A,HDA-DF-14/28 | HDA, DF-14/28 | 4 strobe unit, DoubleFlash, 14 or 28 VDC                          |   |   |
| A413A,HDA-CF-14/28 | HDA, CF-14/28 | 4 strobe unit, CometFlash®, 14 or 28 VDC                          |   |   |
| A412A,HS-14        | HS,14         | Single strobe unit, SingleFlash, 14 VDC                           |   | Model A490TCF<br>P/N 01-0770006-08<br> |
| A412A,HS-28        | HS,28         | Single strobe unit, SingleFlash, 28 VDC                           |   |   |
| A412A,HS,DF-14     | HS,DF-14      | Single strobe unit, DoubleFlash, 14 VDC                           |   |   |
| A412A,HS,DF-28     | HS,DF-28      | Single strobe unit, DoubleFlash, 28 VDC                           |   |   |
| A490,TS-14         | HTS           | Single strobe unit, SingleFlash, 14 VDC                           | Model A490TCF<br>P/N 01-0770006-09<br>  |   |
| A490,TS-28         | HTS           | Single strobe unit, SingleFlash, 28 VDC                           |   |   |
| A490A,TS,DF        | HTS-DF        | Single strobe unit, DoubleFlash, 14 or 28 VDC                     | Model A490ATSC<br>P/N 01-0770062-03<br>  |   |
| A490A,TS,CF-14/28  | HTS-CF        | Single strobe unit, CometFlash, 14 or 28 VDC                      |   |   |
| A490,T-14          | HT            | Single strobe unit, SingleFlash, 14 VDC                           |   |   |
| A490,T-28          | HT            | Single strobe unit, SingleFlash, 28 VDC                           |   |   |
| A490,T,DF-14       | HT, DF        | Single strobe unit, DoubleFlash, 14 VDC                           |   |   |
| A490,T,DF-28       | HT, DF        | Single strobe unit, DoubleFlash, 28 VDC                           |   |   |
| A490,T,DF-14/28    | HT, DF        | Single strobe unit, DoubleFlash, 14 or 28 VDC                     |   |   |
| A490,T,CF-14/28    | HT, CF        | Single strobe unit, CometFlash, 14 or 28 VDC                      |   |   |
| A490,TC,DF-14      | HTC, DF       | Single strobe unit, DoubleFlash, 14 VDC with mounting plate       |   |   |
| A490,TC,DF-28      | HTC, DF       | Single strobe unit, DoubleFlash, 28 VDC with mounting plate       |   |   |
| A490,TC,DF-14/28   | HTC, DF       | Single strobe unit, DoubleFlash, 14 or 28 VDC with mounting plate |   |   |
| A490,TC,CF-14/28   | HT, CF        | Single strobe unit, CometFlash, 14 or 28 VDC with mounting plate  |   |   |
|                    | HR,14         | Self-Contained strobe, 14 VDC                                     | Model HRCFA<br>P/N 01-0770029-(-)<br>Specify lens color<br>R=Red, W=White<br>S=Split Red/White<br> |   |
|                    | HR,28         | Self-Contained strobe, 28 VDC                                     |   |   |
|                    | HR,DF,14      | Self-Contained strobe, DoubleFlash 14 VDC                         |   |   |
|                    | HR,DF,28      | Self-Contained strobe, DoubleFlash 28 VDC                         |   |   |
|                    | HR,DF,14/28   | Self-Contained strobe, DoubleFlash 14 or 28 VDC                   |   |   |
|                    | HR,DFA,14/28  | Self-Contained strobe, DoubleFlash 14 or 28 VDC (A402A lens)      |   |   |



## A490ATSC SERIES

Model A490ATSC operates one strobe lighthouse. Its compact size allows mounting in the wingtip and/or the tail, adjacent to the lighthouse. It produces an accumulated 34 joules of power and can be equipped to flash simultaneously with up to 5 other like units by connecting an 18 gauge wire between outlet 3 on the input power connector. This power supply will operate from 10 to 30 VDC.



| Model    | Part#         | Description            | Drawing# | Weight           | Dimensions                                 | Current Draw  | Approvals |
|----------|---------------|------------------------|----------|------------------|--|---|-----------|
| A490ATSC | 01-0770062-03 | A490ATSCF power supply | 70062    | 1.7 lbs. (771gm) | 3.06" (78mm) x 3.12" (79mm) x 5.0" (127mm) | 4.0 amps @ 14 VDC;<br>2.0 amps @ 28 VDC<br>& Aviation Red | FAA/PMA   |

Supplement: STC SA615EA  
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## A490TCF SERIES

A490TCF series operates one strobe lighthouse. It is our most compact unit and can be mounted in the wingtip and/or the tail adjacent to the lighthouse. It produces an accumulated 19 joules of power. It will only meet 400 CP when used with the A470A-W. This unit cannot be synchronized. This power supply operates from 10 to 30 VDC (not approved for use with Red strobe light).



| Model    | Part#         | Description                              | Drawing# | Weight           | Dimensions                                 | Current Draw                             | Approvals |
|----------|---------------|--|----------|------------------|--|--|-----------|
| A490TCF  | 01-0770006-08 | Standard unit, 20" leads, amp connectors | 70006    | 1.2 lbs. (544gm) | 2.38" (60mm) x 3.12" (79mm) x 5.0" (127mm) | 1.7 amps @ 14 VDC;<br>0.85 amps @ 28 VDC | FAA/PMA   |
| A490TCFM | 01-0770006-14 | 20" leads, Molex connectors              |          |                  |  |  | -         |
| 7000615  | 01-0770006-15 | 20" leads, no connectors                 |          |                  |  |  | -         |

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## A490TCCF SERIES

A490TCCF Series is the same as the A490TCF but has a mounting plate with additional holes that directly replaces factory installed systems on single engine Cessnas, Aero Commanders, and Grumman Americans.



| Model    | Part#         | Description   | Drawing# | Weight           | Dimensions                                 | Current Draw                             | Approvals |
|----------|---------------|---|----------|------------------|--|--|-----------|
| A490TCCF | 01-0770006-09 | Standard unit, 20" leads, amp connectors                      | 70006    | 1.2 lbs. (544gm) | 2.38" (60mm) x 3.12" (79mm) x 5.0" (127mm) | 1.7 amps @ 14 VDC;<br>0.85 amps @ 28 VDC | FAA/PMA   |
| 7000612  | 01-0770006-12 | 9" output, 7" input, leads (CESSNA 172)                       |          |                  |  |  | -         |
| 7000616  | 01-0770006-16 | 20" leads, ms connector on output lead                        |          |                  |  |  | -         |
| 7000617  | 01-0770006-17 | 3" output, 7" input & 4 pos. amp connector (CESSNA) (182,206) |          |                  |  |  | -         |

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# POWER SUPPLIES



## 90101 SERIES

90101 Series is similar to the HDCF but has military connectors. It is available in SingleFlash or CometFlash®. Several different configurations are available for application specific installations.

| Model   | Part#         | Description  | Drawing# | Weight              | Dimensions                                       | Current Draw                        | Approvals |
|---------|---------------|--|----------|---------------------|--|-------------------------------------|-----------|
| 9010100 | 01-0790101-00 | 24 joule, SingleFlash  | 90101    | 1.7 lbs.<br>(771gm) | 3.50" (89mm) x<br>3.12" (79mm) x<br>5.0" (127mm) | 4 amps @ 14 VDC;<br>2 amps @ 28 VDC | TSO-C96a  |
| 9010101 | 01-0790101-01 | 24 joule, SingleFlash, old style mounting plate                                |          |                     |  |                                     | TSO-C96a  |
| 9010102 | 01-0790101-02 | 24 joule, SingleFlash, w/add on mounting plate                                 |          |                     |  |                                     | TSO-C96a  |
| 9010104 | 01-0790101-04 | 34 joule, CometFlash, replaces Grimes 60-2799 when used with mounting brackets |          |                     |  |                                     | TSO-C96a  |
| 9010104 | 01-0790101-05 | 34 joule, CometFlash   |          |                     |  |                                     | TSO-C96a  |



## 90079 SERIES

90079 Series is similar to the HDACF Series, but has military connectors. Connectors 2 & 3 (wingtips) will operate simultaneously and will alternate with connector 1 (tail). When operating two lights, use connectors 1 & 2 to operate in the alternating mode.

| Model   | Part#         | Description   | Drawing# | Weight               | Dimensions  | Current Draw                        | Approvals |
|---------|---------------|---|----------|----------------------|---|-------------------------------------|-----------|
| 9007904 | 01-0790079-04 | 42 joule, CometFlash, replaces Grimes 60-1750-1 & 3                 | 90079    | 2.3 lbs.<br>(1043gm) | 2.40" (61mm) x<br>5.0" (127mm) x<br>5.50" (140mm) | 7 amps @14 VDC;<br>3.5 amps @28 VDC | FAA/PMA   |
| 9007906 | 01-0790079-06 | 42 joule, CometFlash, socket outputs, with add on mounting brackets |          |                      |   |                                     | -         |

Supplement: PMA 33



## MODEL A1610

A1610 Series produces 22 joules of energy. This wingtip mounted power supply will operate from 10 to 30 VDC. **Piper P/N 481-228.**

| Model    | Part#         | Description  | Drawing# | Weight           | Dimensions                                      | Current Draw                        | Approvals |
|----------|---------------|--------------|----------|------------------|---|-------------------------------------|-----------|
| A1610TSC | 01-0770168-01 | Power supply | 70168    | 1.5 lbs. (680gm) | 4.15" (105mm) x 2.18" (55mm) x<br>5.18" (132mm) | 4 amps @ 14 VDC;<br>2 amps @ 28 VDC | FAA/PMA   |

Supplement: PMA 27



## MODEL 70888

Model 70888 operates one (1) strobe lighthouse at 36 joules in CometFlash. It is equipped to flash simultaneously with up to 5 other like units by connecting an 18 gauge wire between outlet 3 on the input connector.

| Model   | Part#         | Description         | Drawing# | Weight           | Dimensions  | Current Draw   | Approvals              |
|---------|---------------|---------------------|----------|------------------|---|--|------------------------|
| 7088800 | 01-0770888-00 | Strobe power supply | 70888    | 1.3 lbs. (590gm) | 3.00" (76mm) x<br>3.12" (79mm) x<br>5.00" (127mm) | 1.6 amps average<br>Input Voltage: 28 VDC<br>Nominal | TSO-C96a Class II, III |

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# SELF-CONTAINED ANTI-COLLISION



## 90520 SERIES

90520 Series Beacons are TSO approved self-contained LED Anti-Collision lights (Ref. Class III - 100 effective candlepower). They are designed to replace strobe lighthoods as small as the A470A with available models to replace HR self-contained beacons (HRCFA) or our legacy 70900 LED beacon. Mounting plate included with assembly. See models below.

Models -01, -04, -05, -14, -15, -51, -55: Ship with 12" Flying Leads

Models -07, -17, -08, -18: MS3102R10SL-3P Connector

Models -04, -14, -08, -18, -55: 3-3/4" opening designed to fit inside an A440 mounting adapter, mounting designed to replace existing beacons utilizing a 5-Hole mounting pattern on 4.656 dia. bolt circle (Whelen 70285 Series/7090501 Series or 70900 with A440 adapter).

Models -05, -15, -07, -17: 3-3/4" opening designed to fit inside an A440 mounting adapter, mounting holes to fit in place of rotating beacons, Whelen Model HRCFA, or 70900004, -05 Series LED beacons.



| Model   | Part#         | Description   | Drawing# | Weight                        | Dimensions  | Current Draw                  | Color              | Lens                | Approvals          |
|---------|---------------|---|----------|-------------------------------|---|-------------------------------|--------------------|---------------------|--------------------|
| 9052051 | 01-0790520-51 | LED Red/White, 14 VDC, 2.75" mount                              | 90520    | 0.65 lbs. (295gm) (-01 & -51) | Exp. Height 3.74" (95mm) (-01 & 51) x 2.6" (66mm) | 0.67 amps Avg., 3.0 amps Peak | Aviation Red/White | Clear polycarbonate | TSO-C96a Class III |
| 9052055 | 01-0790520-55 | LED Red/White beacon, 14 VDC (3.75" adapt., flying leads)       |          |                               |   |                               |                    |                     | TSO-C96a Class III |
| 9052001 | 01-0790520-01 | LED Red/White, 28 VDC, 2.75" mount                              |          |                               |   |                               |                    |                     | TSO-C96a Class III |
| 9052004 | 01-0790520-04 | LED Red/White, 28 VDC & 5-Hole mount                            |          |                               |   |                               |                    |                     | TSO-C96a Class III |
| 9052014 | 01-0790520-14 | LED Red/White, 28 VDC & 5-Hole, lower mount                     |          |                               |   |                               |                    |                     | TSO-C96a Class III |
| 9052005 | 01-0790520-05 | LED Red/White, 28 VDC, 3.75" adapter                            |          |                               |   |                               |                    |                     | TSO-C96a Class III |
| 9052015 | 01-0790520-15 | LED Red/White, 28 VDC, 3.75" adapter, lower mount               |          |                               |   |                               |                    |                     | TSO-C96a Class III |
| 9052007 | 01-0790520-07 | LED Red/White, 28 VDC, 3.75" adapter, MS Connector              |          |                               |   |                               |                    |                     | TSO-C96a Class III |
| 9052017 | 01-0790520-17 | LED Red/White, 28 VDC, 3.75" adapter, lower mount, MS Connector |          |                               |   |                               |                    |                     | TSO-C96a Class III |
| 9052008 | 01-0790520-08 | LED Red/White, 28 VDC & 5-Hole mount                            |          |                               |   |                               |                    |                     | TSO-C96a Class III |
| 9052018 | 01-0790520-18 | LED Red/White, 28 VDC & 5-Hole, lower mount                     |          |                               |   |                               |                    |                     | TSO-C96a Class III |

Supplement: STC SA615EA

## 71410 SERIES

71410 LED White Anti-Collision Beacons are FAA TSO compliant self-contained LED Anti-Collision Lights. (Unit meets rotorcraft minimum ACL standards Class I, 150 effective Cd) They are designed to replace 3/4 opening found with our HRCFA/SACF style Strobe units and to replace rotating beacons, they also come with a narrow base allowing replacement of A470(A) and similar remote strobes (Contact Factory). 71410 Ships with 12" long flying leads, available in 28V only (TSO-C96a, CLASS III).



| Model   | Part#         | Description                     | Drawing# | Weight             | Dimensions  | Current Draw   | Color          | Lens                | Approvals              |
|---------|---------------|---------------------------------|----------|--------------------|---|----------------|----------------|---------------------|------------------------|
| 7141001 | 01-0771410-01 | LED Anti-Collision Light 28 VDC | 71410    | 0.75lbs (340.19gm) | Exp. Height 3.4" (86.36mm) x Dia: 3.60" (91.44mm) | 0.32 amps Avg. | Aviation White | Clear polycarbonate | FAA TSO-C96a Class III |

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# SELF-CONTAINED ANTI-COLLISION



## 71080 SERIES

71080 Series Beacons are TSO approved self-contained LED Anti-Collision lights (Ref. Class I - 150 effective candlepower). They are designed to replace a range of products. Refer to models and descriptions below.  
 Models -01, -04, -05, -13, -14, -15, -20: Ship with 12" Flying Leads  
 Models -07, -17, -08, -18: MS3102R10SL-3P Connector  
 Models -04, -14, -08, -18: designed to replace existing beacons using 5-Hole mounting pattern on a 4.656 dia. bolt circle (Whelen 70285 Series/7090501 Series or 70900 with A440 adapter).  
 Models -05, -15, -07, -17: 3 3/4" opening designed to fit inside an A440 mounting adapter, mounting holes to fit in place of rotating beacons, Whelen Model HRCFA, or 7090004, -05 Series LED beacons.

| Model   | Part#         | Description   | Drawing#         | Weight                        | Dimensions  | Current Draw  | Color        | Lens                | Approvals        |
|---------|---------------|---|------------------|-------------------------------|---|---|--------------|---------------------|------------------|
| 7108051 | 01-0771080-51 | LED Red, 14 VDC, 2.6" mount                           | 71080            | 0.65 lbs. (295gm) (-01 & -51) | Exposed height, 3.74" (95mm) (-01 & 51) x 2.6" (66mm) | 0.67 amps average, 2.0 amps peak 150 eff. Cd 28 VDC | Aviation Red | Clear polycarbonate | TSO-C96a Class I |
| 7108055 | 01-0771080-55 | LED Red, 14 VDC, 3.75" adapter, Flying Leads          |                  |                               |   |   |              |                     | TSO-C96a Class I |
| 7108001 | 01-0771080-01 | LED Red, 28 VDC, 2.6" mount                           |                  |                               |   |   |              |                     | TSO-C96a Class I |
| 7108004 | 01-0771080-04 | LED Red, 28 VDC & 5-Hole mount                        |                  |                               |   |   |              |                     | TSO-C96a Class I |
| 7108014 | 01-0771080-14 | LED Red, 28 VDC & 5-Hole, lower mount                 |                  |                               |   |   |              |                     | TSO-C96a Class I |
| 7108005 | 01-0771080-05 | LED Red, 28 VDC, 3.75" adapter                        |                  |                               |   |   |              |                     | TSO-C96a Class I |
| 7108015 | 01-0771080-15 | LED Red, 28 VDC, 3.75" adapter, lower mount           |                  |                               |   |   |              |                     | TSO-C96a Class I |
| 7108007 | 01-0771080-07 | LED Red, 28 VDC, 3.75" adapter, MS Conn.              |                  |                               |   |   |              |                     | TSO-C96a Class I |
| 7108017 | 01-0771080-17 | LED Red, 28 VDC, 3.75" adapter, lower mount, MS Conn. |                  |                               |   |   |              |                     | TSO-C96a Class I |
| 7108008 | 01-0771080-08 | LED Red, 28 VDC & 5-Hole mount, MS Conn.              |                  |                               |   |   |              |                     | TSO-C96a Class I |
| 7108018 | 01-0771080-18 | LED Red, 28 VDC & 5-Hole, lower mount, MS Conn.       | TSO-C96a Class I |                               |   |   |              |                     |                  |

Supplement: STC SA615EA



## HRCFA SERIES

Model HRCFA series is a self-contained CometFlash® strobe anti-collision light. The unique polycarbonate optic lens and reflector design re-directs stray light rays into the horizontal plane to provide maximum 360 degrees of uniform light coverage. Available in three different lens colors, Aviation Red, Aviation White and Split Aviation Red/White and in radio-shielded configurations. FAA approved as a direct replacement for any rotating beacon that uses a 3-3/4 dia. mounting hole. Can be installed in the vertical fin or the fuselage. Fuselage installation requires the A440 mounting adapter. Operates between 10 to 30 VDC.

| Model   | Part#         | Description                             | Drawing# | Weight           | Dimensions                  | Current Draw                         | Color   | Lens                      | Approvals |
|---------|---------------|---|----------|------------------|-----------------------------|--------------------------------------|---|---------------------------|-----------|
| HRCFAR  | 01-0770029-29 | Standard assembly, Red lens <b>NSN</b>  | 70029    | 1.5 lbs. (680gm) | 7.25" (184mm) x 3.7" (94mm) | 3.2 amps @ 14 VDC, 1.6 amps @ 28 VDC | Aviation Red, Aviation White and Aviation Red/White | Hard-coated Polycarbonate | FAA/PMA   |
| HRCFAW  | 01-0770029-30 | Standard assembly, White lens           |          |                  |                             |                                      |   |                           | FAA/PMA   |
| HRCFAS  | 01-0770029-31 | Standard assembly, split Red/White lens |          |                  |                             |                                      |   |                           | FAA/PMA   |
| HRCFADR | 01-0770029-32 | Radio-shielded, Red lens                |          |                  |                             |                                      |   |                           | FAA/PMA   |
| HRCFADW | 01-0770029-33 | Radio-shielded, White lens              |          |                  |                             |                                      |   |                           | FAA/PMA   |
| HRCFADS | 01-0770029-34 | Radio-shielded, split Red/White lens    |          |                  |                             |                                      |   |                           | FAA/PMA   |

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# SELF-CONTAINED ANTI-COLLISION



## 71055 SERIES

71055 Series Beacons are TSO approved self-contained LED anti-collision lights. They are designed to replace existing quartz halogen flasher beacons installed as original equipment on single engine Cessnas from 1967 and later (contact factory for details). They can also replace remote mounted strobe lights (ref. Whelen A470 Series) allowing for removal of the strobe power supply. Internal mounting plate provided with choice of mounting holes to retrofit most existing mounting patterns. STC SA615EA approved.

| Model   | Part#         | Description             | Drawing# | Weight           | Dimensions  | Current Draw  | Color        | Lens                | Approvals          |
|---------|---------------|-------------------------|----------|------------------|---|---|--------------|---------------------|--------------------|
| 7105500 | 01-0771055-00 | LED beacon, 14 VDC, Red | 71055    | 0.5 lbs. (226gm) | Exposed Height: 3.09" (78mm) x Exposed Diameter: 2.60" (66mm) | 01-0771055-00 - .75 amps Avg.<br>01-0771055-01 - 0.56 amps Avg. | Aviation Red | Clear Polycarbonate | TSO-C96a Class III |
| 7105501 | 01-0771055-01 | LED beacon, 28 VDC, Red |          |                  |   |   |              |                     | TSO-C96a Class III |

Supplement: **STC SA615EA**

## 90088 SERIES

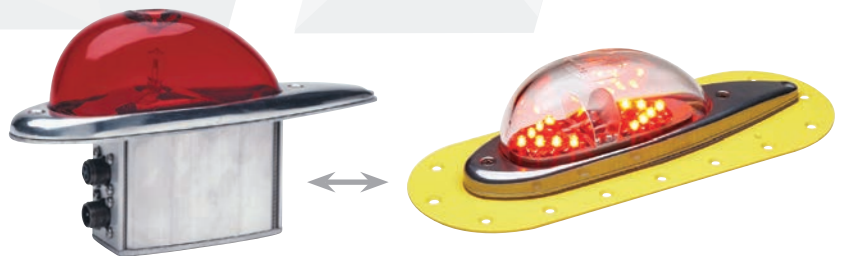
90088 Series is a Self-Contained LED Anti-Collision Beacon. It's solid-state circuitry and LED light source obsolete the "old style" mechanical oscillating beacons as well as the Whelen 90044 Series quartz halogen flashing beacons. Benefits include no moving parts, no EMI/RFI, no inrush current spikes and crisp on/off cycles. There are several models available to provide compatibility with existing mounting patterns and profiles, thus eliminating the need to alter the aircraft.



| Model   | Part#         | Description   | Drawing# | Weight                                    | Dimensions  | Current Draw       | Color        | Lens        | Approvals          |
|---------|---------------|---|----------|---|---|--------------------|--------------|-------------|--------------------|
| 9008811 | 01-0790088-11 | Lower, 5-Hole, standard assembly, cable pigtail, 28 VDC       | 90088    | 1.8 lbs. (816gm) (unless otherwise noted) | -11 thru -16: 2.70" (68.5mm) x 2.38" (60.45mm) x 9.87" (250.69mm)<br>-18 & -19: 2.84" (72.13mm) x 3.87" (98.92mm) x 11.43" (290.32mm) | 0.45 amps @ 28 VDC | Aviation Red | Clear glass | TSO-C96a Class III |
| 9008812 | 01-0790088-12 | Upper, 5-Hole, standard assembly, cable pigtail, 28 VDC       |          |   |   |                    |              |             | TSO-C96a Class III |
| 9008813 | 01-0790088-13 | Upper, 5-Hole, 2.25 lbs. rudder mount (Citations), 28 VDC     |          |   |   |                    |              |             | TSO-C96a Class III |
| 9008814 | 01-0790088-14 | Upper, 5-Hole, 2.25 lbs. cable pigtail (Beech Barons), 28 VDC |          |   |   |                    |              |             | TSO-C96a Class III |
| 9008815 | 01-0790088-15 | Lower, 5-Hole, (MS27508E10A-5P connector), 28 VDC             |          |   |   |                    |              |             | TSO-C96a Class III |
| 9008816 | 01-0790088-16 | Upper, 5-Hole, (MS27508E10A-5P connector), 28 VDC             |          |   |   |                    |              |             | TSO-C96a Class III |
| 9008817 | 01-0790088-17 | Lower, 5-Hole, 2 drain holes (Hawker 800), 28 VDC             |          |   |   |                    |              |             | TSO-C96a Class III |
| 9008818 | 01-0790088-18 | Upper, 8-Hole, 1.9 lbs., cable pigtail, 28 VDC                |          |   |   |                    |              |             | TSO-C96a Class III |
| 9008819 | 01-0790088-19 | Lower, 8-Hole, 1.9 lbs., cable pigtail, 28 VDC                |          |   |   |                    |              |             | TSO-C96a Class III |

**Replaces:** Whelen: 90044 Series & Grimes: G9950(-), 40-0100(-), 30-2140(-), 40-0117(-), 40-0127(-), 30-2647(-)

## WHELEN 90044-90088 CROSS REFERENCE LIST



| 90044 PART NUMBER | DESCRIPTION   | 90088 PART NUMBER |
|-------------------|---|-------------------|
| 01-0790044-39     | Ground recognition for Citation X (lower 5-Hole mount) Cessna exclusive part          | 01-0790088-03     |
| 01-0790044-37     | Ground recognition for Citation X (upper 5-Hole mount) Cessna exclusive part          | 01-0790088-04     |
| -                 | Ground recognition for Sovereign upper 5-Hole mount) Cessna exclusive part            | 01-0790088-06     |
| 01-0790044-03     | Anti-collision light (lower 5-Hole mount) cable pigtail                               | 01-0790088-11     |
| 01-0790044-01     | Anti-collision light (upper 5-Hole mount) cable pigtail                               | 01-0790088-12     |
| 01-0790044-33     | Anti-collision light (Citation 5-Hole rudder mount, 2.25 lbs.) with connector         | 01-0790088-13     |
| 01-0790044-57     | Anti-collision light (5-Hole rudder mount, Barons, 2.25 lbs.) cable pigtail           | 01-0790088-14     |
| 01-0790044-39     | Anti-collision light (lower 5-Hole mount) with MS27508E10A-5P connector               | 01-0790088-15     |
| 01-0790044-37     | Anti-collision light (upper 5-Hole mount) with MS27508E10A-5P connector               | 01-0790088-16     |
| 01-0790044-54     | Anti-collision light (lower 5-Hole mount) cable pigtail, 2 lens drain holes (Hawkers) | 01-0790088-17     |
| 01-0790044-17     | Anti-collision light (upper 8-Hole mount) cable pigtail                               | 01-0790088-18     |
| 01-0790044-19     | Anti-collision light (lower 8-Hole mount) cable pigtail                               | 01-0790088-19     |

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# SELF CONTAINED ANTI-COLLISION



## 90044 SERIES

90044 Series Self-contained quartz halogen flashing anti-collision light, 150 watt. Factory installed on Lear 31, Falcon 900 and Cessna Citation X. It is also a direct replacement for oscillating beacons on most corporate aircraft.

| Drawing# | Weight                                | Dimensions  | Current Draw       | Replaces   |
|----------|---------------------------------------|---|--------------------|--|
| 90044    | 1.6 lbs. (726gm) to 2.5 lbs. (1134gm) | 5-Hole: 2.70" (68.58mm) x 2.38" (60.45mm) x 9.87" (250.69mm)<br>8-Hole: 2.76" (70.10mm) x 3.87" (98.29mm) x 11.43" (290.32mm) | 3.25 amps @ 28 VDC | G9950(-), 40-0100(-), 30-2140(-), 40-0117(-), 40-0127(-), 30-2647(-) |

| Model   | Part#         | Description   | Lens  | Mount | Base   | Approvals    |
|---------|---------------|---|-------|-------|--------|--------------|
| 9004401 | 01-0790044-01 | Standard assembly   | Red   | Upper | 5 Hole | FAA-TSO-C96a |
| 9004402 | 01-0790044-02 | Standard assembly   | White | Upper | 5 Hole | FAA-TSO-C96a |
| 9004403 | 01-0790044-03 | Standard assembly   | Red   | Lower | 5 Hole | FAA-TSO-C96a |
| 9004404 | 01-0790044-04 | Standard assembly   | White | Lower | 5 Hole | FAA-TSO-C96a |
| 9004409 | 01-0790044-09 | Capable of synchronizing flash rate with other like units             | Red   | Upper | 5 Hole | FAA-TSO-C96a |
| 9004410 | 01-0790044-10 | Capable of synchronizing flash rate with other like units             | White | Upper | 5 Hole | FAA-TSO-C96a |
| 9004413 | 01-0790044-13 | Slave unit  | Red   | Upper | 5 Hole | FAA-TSO-C96a |
| 9004415 | 01-0790044-15 | Slave unit  | Red   | Lower | 5 Hole | FAA-TSO-C96a |
| 9004417 | 01-0790044-17 | Standard assembly   | Red   | Upper | 8 Hole | FAA-TSO-C96a |
| 9004418 | 01-0790044-18 | Standard assembly   | White | Upper | 8 Hole | FAA-TSO-C96a |
| 9004419 | 01-0790044-19 | Standard assembly   | Red   | Lower | 8 Hole | FAA-TSO-C96a |
| 9004420 | 01-0790044-20 | Standard assembly   | White | Lower | 8 Hole | FAA-TSO-C96a |
| 9004433 | 01-0790044-33 | 2.25 lbs. Rubber mount (Citations)                                    | Red   | Upper | 5 Hole | FAA-TSO-C96a |
| 9004434 | 01-0790044-34 | 2.25 lbs. Rubber mount (Citations)                                    | White | Upper | 5 Hole | FAA-TSO-C96a |
| 9004435 | 01-0790044-35 | 2.50 lbs. (Westwind)  | Red   | Upper | 8 Hole | FAA-TSO-C96a |
| 9004437 | 01-0790044-37 | 5 Position input connector (Citation X)                               | Red   | Upper | 5 Hole | FAA-TSO-C96a |
| 9004439 | 01-0790044-39 | 5 Position input connector (Citation X)                               | Red   | Lower | 5 Hole | FAA-TSO-C96a |
| 9004441 | 01-0790044-41 | Special 9 hole mounting plate   | Red   | Lower | 9 Hole | FAA-TSO-C96a |
| 9004444 | 01-0790044-44 | 5 Position input connector (Citation X)                               | White | Lower | 5 Hole | FAA-TSO-C96a |
| 9004453 | 01-0790044-53 | Masked lens (Factory installed on Beech Barons)                       | White | Lower | 8 Hole | FAA-TSO-C96a |
| 9004454 | 01-0790044-54 | Lens has 2 drain holes & bottom mounted input connector (Hawkers 800) | Red   | Lower | 5 Hole | FAA-TSO-C96a |
| 9004455 | 01-0790044-55 | Single input connector (Hawkers 800)                                  | Red   | Upper | 5 Hole | FAA-TSO-C96a |
| 9004456 | 01-0790044-56 | Lens has 2 drain holes & single input connector (older Hawkercs)      | Red   | Lower | 5 Hole | FAA-TSO-C96a |
| 9004457 | 01-0790044-57 | 2.25 lbs. Cable pigtail (Beech Barons)                                | Red   | Upper | 5 Hole | FAA-TSO-C96a |
| 9004458 | 01-0790044-58 | 2.25 lbs. Cable pigtail (Beech Barons)                                | White | Upper | 5 Hole | FAA-TSO-C96a |

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# SELF-CONTAINED ANTI-COLLISION

## 90033 SERIES

Self-contained, 150 watt, quartz halogen flashing anti-collision light which is factory installed on Beechcraft. It is also a direct replacement for oscillating beacons on most corporate aircraft.



| Drawing# | Weight                               | Dimensions   | Current Draw      | Color                          | Lens  |
|----------|--------------------------------------|--------------|-------------------|--------------------------------|-------|
| 90033    | 0.6 lbs. (272gm) to 0.9 lbs. (408gm) | 4.4" (112mm) | 5.5 amps @ 28 VDC | Aviation Red<br>Aviation White | Glass |

| Model   | Part#        | Description  | Lens  | Mount | Base   | Approvals    |
|---------|--------------|--|-------|-------|--------|--------------|
| 900331  | 01-079033-01 | Standard unit, 18" cable no connector                    | Red   | Lower | 2 Hole | FAA-TSO-C96a |
| 900332  | 01-079033-02 | Standard unit, 18" cable no connector                    | White | Lower | 2 Hole | FAA-TSO-C96a |
| 900333  | 01-079033-03 | 18" cable, AMP #207846-1, 2 Position connector           | Red   | Lower | 8 Hole | FAA-TSO-C96a |
| 900334  | 01-079033-04 | 18" cable, AMP #207846-1, 2 Position connector           | White | Lower | 8 Hole | FAA-TSO-C96a |
| 900335  | 01-079033-05 | 18" cable, AMP #207846-1, 2 Position connector           | Red   | Upper | 5 Hole | FAA-TSO-C96a |
| 900336  | 01-079033-06 | 18" cable, AMP #207846-1, 2 Position connector           | White | Upper | 5 Hole | FAA-TSO-C96a |
| 900335D | 01-079033-5D | 18" cable, AMP #207846-1, 2 Position connector           | Red   | Lower | 5 Hole | FAA-TSO-C96a |
| 900336D | 01-079033-6D | 18" cable, AMP #207846-1, 2 Position connector           | White | Lower | 5 Hole | FAA-TSO-C96a |
| 900337  | 01-079033-07 | 5.12" Dia. mounting base, MS3102R10SL-3P connector       | Red   | Lower | Round  | FAA-TSO-C96a |
| 900338  | 01-079033-08 | 5.12" Dia. mounting base, MS3102R10SL-3P connector       | White | Lower | Round  | FAA-TSO-C96a |
| 900339  | 01-079033-09 | 18" cable, AMP #208530-1, 8 Position connector           | Red   | Lower | 8 Hole | FAA-TSO-C96a |
| 9003310 | 01-079033-10 | 18" cable, AMP #208530-1, 8 Position connector           | White | Lower | 8 Hole | FAA-TSO-C96a |
| 9003311 | 01-079033-11 | AMP #1-480698-0, 2 Position connector                    | Red   | Upper | 5 Hole | FAA-TSO-C96a |
| 9003312 | 01-079033-12 | AMP #1-480698-0, 2 Position connector (Beech 1900)       | White | Upper | 5 Hole | FAA-TSO-C96a |
| 9003313 | 01-079033-13 | No connector, 13" leads (Cessna CJ1, CJ2)                | Red   | Upper | 2 Hole | FAA-TSO-C96a |
| 9003314 | 01-079033-14 | No connector, 13" leads                                  | White | Upper | 2 Hole | FAA-TSO-C96a |
| 9003317 | 01-079033-17 | AMP #207846-1, 2 Position connector with masked lens     | Red   | Upper | 2 Hole | FAA-TSO-C96a |
| 9003323 | 01-079033-23 | AMP #207567-1, 3 Position connector                      | Red   | Lower | 8 Hole | FAA-TSO-C96a |
| 9003324 | 01-079033-24 | AMP #207567-1, 3 Position connector (Beech 1900)         | White | Lower | 8 Hole | FAA-TSO-C96a |
| 9003325 | 01-079033-25 | MS3102R10SL-3P connector on mounting bracket (Beech Jet) | Red   | Upper | 5 Hole | FAA-TSO-C96a |
| 9003329 | 01-079033-29 | Master unit, no connector                                | Red   | Upper | 5 Hole | FAA-TSO-C96a |
| 9003330 | 01-079033-30 | Master unit, no connector (Fairchild)                    | White | Upper | 5 Hole | FAA-TSO-C96a |
| 9003332 | 01-079033-32 | Slave unit, no connector (Fairchild)                     | White | Lower | 2 Hole | FAA-TSO-C96a |



# POSITION LIGHTS



## 71105 SERIES

71105 Series are fully TSO approved Forward Position lights. LEDs provide a significant reduction in electrical current draw over conventional light bulbs.

| Model   | Part#         | Description            | Drawing# | Weight                     | Dimensions   | Current Draw                       | Color                           | Lens                        | Approvals        |
|---------|---------------|------------------------|----------|----------------------------|--|------------------------------------|---------------------------------|-----------------------------|------------------|
| 7110501 | 01-0771105-01 | Position Green, 14 VDC | 71105    | 0.20 lbs.<br>(91gm) 14 VDC | Exposed Height:<br>1.08" (27.43mm) x<br>1.77" (44.95mm) x<br>3.88" (98.55mm) | 0.25 amps<br>@ 14 VDC<br>or 28 VDC | Aviation Red,<br>Aviation Green | Clear<br>Polycarbon-<br>ate | TSO-C30c Type II |
| 7110502 | 01-0771105-02 | Position Red, 14 VDC   |          | TSO-C30c Type I            |  |                                    |                                 |                             |                  |
| 7110503 | 01-0771105-03 | Position Green, 28 VDC |          | TSO-C30c Type II           |  |                                    |                                 |                             |                  |
| 7110504 | 01-0771105-04 | Position Red, 28 VDC   |          | TSO-C30c Type I            |  |                                    |                                 |                             |                  |



## W1285 SERIES

Wingtip position light which uses a 26 watt incandescent lamp. It is a direct replacement for the brand G A1285 Series. Specify 14 or 28 VDC.

| Model    | Part#         | Description                       | Drawing# | Weight             | Dimensions                   | Current Draw                      | Color                                | Lens  | Approvals            |
|----------|---------------|-----------------------------------|----------|--------------------|------------------------------|-----------------------------------|--------------------------------------|-------|----------------------|
| W1285PG1 | 01-0770001-41 | 14 VDC, Position Green            | 70001    | 0.2 lbs.<br>(91gm) | 1.25" (32mm) x<br>4" (102mm) | 2 amps @ 14 VDC<br>1 amp @ 28 VDC | Aviation<br>Red<br>Aviation<br>Green | Glass | FAA TSO-C30b Type II |
| W1285PR1 | 01-0770001-51 | 14 VDC, Position Red              |          |                    |                              |                                   |                                      |       | FAA TSO-C30b Type I  |
| W1285PG2 | 01-0770001-42 | 28 VDC, Position Green NSN (-750) |          |                    |                              |                                   |                                      |       | FAA TSO-C30b Type II |
| W1285PR2 | 01-0770001-52 | 28 VDC, Position Green NSN (-330) |          |                    |                              |                                   |                                      |       | FAA TSO-C30b Type I  |



## W1250 SERIES

Wingtip position light designed for use under a wingtip fairing, it uses a 26 watt incandescent lamp. It is a direct replacement for the brand G A1815A Series. Specify 14 or 28 VDC.

| Model    | Part#         | Description                      | Drawing# | Weight              | Dimensions                     | Current Draw                      | Color                          | Lens  | Approvals            |
|----------|---------------|----------------------------------|----------|---------------------|--------------------------------|-----------------------------------|--------------------------------|-------|----------------------|
| W1250PR1 | 01-0770082-00 | Position Red, 14 VDC             | 70082    | 0.3 lbs.<br>(136gm) | 1.25" (32mm) x<br>2.75" (70mm) | 2 amps @ 14 VDC<br>1 amp @ 28 VDC | Aviation Red<br>Aviation Green | Glass | FAA TSO-C30b Type I  |
| W1250PG1 | 01-0770082-02 | Position Green, 14 VDC           |          |                     |                                |                                   |                                |       | FAA TSO-C30b Type II |
| W1250PR2 | 01-0770082-01 | Position Red, 28 VDC NSN (-24)   |          |                     |                                |                                   |                                |       | FAA TSO-C30b Type I  |
| W1250PG2 | 01-0770082-03 | Position Green, 28 VDC NSN (-25) |          |                     |                                |                                   |                                |       | FAA TSO-C30b Type II |

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**“...DESIGNED TO BE LOCATED UNDER A FAIRING, BUT IS SUITABLE FOR EXTERNAL MOUNTING AS WELL.”**

## 71379 SERIES

71379 Series is an LED Forward Position light designed to be located under a fairing, but is suitable for external mounting as well. **Replaces GRIMES A1815A and Whelen W1250 (right)**. Product ships with 6" flying leads A1825.



| Model   | Part#         | Description                     | Drawing# | Weight             | Dimensions   | Current Draw          | Color                           | Lens                   | Approvals        |
|---------|---------------|---------------------------------|----------|--------------------|--|-----------------------|---------------------------------|------------------------|------------------|
| 7137911 | 01-0771379-11 | LED Forward POS (Green), 14 VDC | 71379    | 0.23lbs<br>(104gm) | Exposed Height:<br>1.25" (31.75mm) x<br>1.75" (44.45mm) x<br>2.31" (58.67mm) | 0.25 Amps<br>@ 28 VDC | Aviation Red,<br>Aviation Green | Clear<br>Polycarbonate | TSO-C30c Type II |
| 7137912 | 01-0771379-12 | LED Forward POS (Red), 14 VDC   |          |                    |  |                       |                                 |                        | TSO-C30c Type I  |
| 7137901 | 01-0771379-01 | LED Forward POS (Green), 28 VDC |          |                    |  |                       |                                 |                        | TSO-C30c Type II |
| 7137902 | 01-0771379-02 | LED Forward POS (Red), 28 VDC   |          |                    |  |                       |                                 |                        | TSO-C30c Type I  |

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# POSITION LIGHTS



## 70963 SERIES

Model 70963 series is designed to replace existing incandescent & halogen position lights used on most business and commuter jets. The benefits of LED technology will drastically reduce operating costs and improve reliability over the existing lighting. The 70963 series are warranted to comply with FAA color & light output regulations for 5 years or 10,000 hours.

| Model   | Part#         | Description          | Drawing# | Weight               | Dimensions                                     | Current Draw                                 | Color                          | Lens | Approvals            |
|---------|---------------|----------------------|----------|----------------------|--|--|--------------------------------|------|----------------------|
| 7096303 | 01-0770963-03 | Green Position Light | 70963    | 0.25 lbs.<br>(113gm) | Exposed Height: 1.98"<br>(50mm) x 2.10" (53mm) | 0.3 amps @ 28 VDC<br>Input Voltage 22-30 VDC | Aviation Red<br>Aviation Green | -    | FAA TSO-C30c Type II |
| 7096304 | 01-0770963-04 | Red Position Light   |          |                      |  |  |                                |      | FAA TSO-C30c Type I  |



## 71015 SERIES

Model 71015 Series are FAA TSO'd forward position lights. They are compatible with the Whelen W1250 position light mounting as well as any other make that uses the same mounting pattern. Not intended for external mounting.

| Model   | Part#         | Description                          | Drawing# | Weight             | Dimensions  | Current Draw         | Color                          | Lens | Approvals            |
|---------|---------------|--------------------------------------|----------|--------------------|---|----------------------|--------------------------------|------|----------------------|
| 7101501 | 01-0771015-01 | Green Position Light, 28 VDC         | 71015    | 0.2 lbs.<br>(91gm) | Exposed Height:<br>1.33" (34mm) x<br>2.41" (61mm) | 0.3 amps @<br>28 VDC | Aviation Red<br>Aviation Green | -    | FAA TSO-C30c Type II |
| 7101502 | 01-0771015-02 | Red Position Light, 28 VDC           |          |                    |   |                      |                                |      | FAA TSO-C30c Type I  |
| 7101507 | 01-0771015-07 | Green Position Light, 28 VDC, Cessna |          |                    |   |                      |                                |      | FAA TSO-C30c Type II |
| 7101508 | 01-0771015-08 | Red Position Light, 28 VDC, Cessna   |          |                    |   |                      |                                |      | FAA TSO-C30c Type I  |



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## 90377 SERIES

90377 Series is a Wingtip mounted Position light assembly utilizing LED's for both the forward (Red/Green) & tail position (White) lights, eliminating the need for a tail mounted position light. The LED's provide a significant reduction in current draw over conventional position light bulbs.

Direct replacement (exact footprint) for the Whelen Model A675PG/PR Series (right). Single set of flying leads operates both Forward & Tail Nav on 28 VDC version, and one set each of flying leads for the Forward & Tail Nav on the 14 VDC version.



| Model   | Part#         | Description            | Drawing# | Weight               | Dimensions   | Current Draw                                 | Color   | Lens                                  | Approvals               |
|---------|---------------|------------------------|----------|----------------------|--|--|---|---------------------------------------|-------------------------|
| 9037701 | 01-0790377-01 | Position Green, 14 VDC | 90377    | 0.35 lbs.<br>(159gm) | Exposed Height: 1.08"<br>(27mm) x Exposed Width:<br>1.87" (47mm) x<br>Exposed Length: 5.69"<br>(145mm) | 0.5 amps<br>@14 VDC<br>0.25 amps<br>@ 28 VDC | Aviation Red,<br>Aviation<br>Green and<br>Aviation<br>White | Clear<br>Hard-coated<br>Polycarbonate | TSO-C30c Types II & III |
| 9037702 | 01-0790377-02 | Position Red, 14 VDC   |          |                      |  |  |   |                                       | TSO-C30c Types I & III  |
| 9037703 | 01-0790377-03 | Position Green, 28 VDC |          |                      |  |  |   |                                       | TSO-C30c Types II & III |
| 9037704 | 01-0790377-04 | Position Red, 28 VDC   |          |                      |  |  |   |                                       | TSO-C30c Types I & III  |

## 71554 SERIES

71554 Series in our newest LED Tail Position Light. Exact Footprint for Whelen Models A555A and 71011 Tailights. Available in horizontal or vertical mount. Models -01 and -02 come with flying leads. Model -03 has a pin and a ring terminal for connections.



| Model   | Part#         | Description                     | Drawing# | Weight             | Dimensions  | Current Draw                           | Color             | Lens                                  | Approvals                    |
|---------|---------------|---------------------------------|----------|--------------------|---|--|-------------------|---------------------------------------|------------------------------|
| 7155411 | 01-0771554-11 | Horizontal mount, 14 VDC        | 71554    | .14 lbs.<br>(64gm) | Exposed Height: 1.4"<br>(35.56mm) x<br>1.59" (40.38mm) x<br>2.07" (52.57mm) | .13 A @<br>28 VDC<br>.25 A @<br>14 VDC | Aviation<br>White | Clear<br>Hard-coated<br>Polycarbonate | STC / TSO/ETSO-C30c Type III |
| 7155412 | 01-0771554-12 | Vertical mount, 14 VDC          |          |                    |   |  |                   |                                       | STC / TSO/ETSO-C30c Type III |
| 7155401 | 01-0771554-01 | Horizontal mount, 28 VDC        |          |                    |   |  |                   |                                       | STC / TSO/ETSO-C30c Type III |
| 7155402 | 01-0771554-02 | Vertical mount, 28 VDC          |          |                    |   |  |                   |                                       | STC / TSO/ETSO-C30c Type III |
| 7155403 | 01-0771554-03 | Vertical mount (Cessna), 28 VDC |          |                    |   |  |                   |                                       | STC / TSO/ETSO-C30c Type III |

Supplement: STC'd SA800EA

## A555A SERIES

Tail Mounted Position Light which uses a 25 watt halogen lamp. The suffix "V" or "H" in the part number designates the aircraft mounting screw locations in respect to the light shield. "V" designates vertical mounting and "H" indicates horizontal mounting on the aircraft. Supplied with a 2 position AMP connector. Specify 14 or 28 VDC. Replaces the brand G A2064 series.



| Model    | Part#         | Description                   | Drawing# | Weight             | Dimensions   | Colors            | Lens  | Approvals             |
|----------|---------------|-------------------------------|----------|--------------------|--|-------------------|-------|-----------------------|
| A555AV14 | 01-0770034-00 | Vertical Mounting, 14 VDC     | 70034    | 0.1 lbs.<br>(45gm) | Exposed Height:<br>1.4" (35mm) x<br>1.71" (43mm) x<br>2.17" (55mm) | Aviation<br>White | Glass | FAA TSO-C30b Type III |
| A555AH14 | 01-0770034-02 | Horizontal Mounting, 14 VDC   |          |                    |  |                   |       | FAA TSO-C30b Type III |
| A555AV28 | 01-0770034-01 | Vertical Mounting, 28 VDC NSN |          |                    |  |                   |       | FAA TSO-C30b Type III |
| A555AH28 | 01-0770034-03 | Horizontal Mounting, 28 VDC   |          |                    |  |                   |       | FAA TSO-C30b Type III |

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# PARMETHEUS PLUS™ REPLACEMENT LIGHTHEADS



## PARMETHEUS PLUS SERIES

Introducing Parmetheus Plus PAR-36 and 46 Series from Whelen Engineering. Performance you can trust... NOW 40% BRIGHTER!

LED lighting is the ideal technology for aviation applications. Whelen LED lights are time and field-tested for reliability and long-life performance under the tough conditions required by Fire, Emergency, DOT and Law Enforcement professionals around the world. Parmetheus Plus PAR-36 and 46 Super-LED lights are a drop-in replacement for outdated Halogen or HID lamps. Lightweight, low-current and moisture resistant, they provide stable light output for thousands of operating hours.

- Retrofitting for PAR-36 & 46 Halogen and HID lamps
- “Drop-In” design offers easy installation and maintenance:
  - Power wiring attaches to brass screw terminals
  - Weight is virtually identical to previous lamps
  - Assembly design includes clocking notch
- First FAA Approved PAR-36 & 46 Super-LED for Aviation applications
- Optical spot and flood combinations via Whelen’s TIR™ (Total Internal Reflector) technology
- Replaceable, hard-coated, polycarbonate outer lens and metal, heat dissipating housing are moisture resistant
- PAR-36 available in Landing and Taxi versions
- Proudly designed and manufactured in the USA
- Five year warranty.



| Model  | Part#         | Description                                   | Type                       | Candle Power | Amps & Volts       | Size                         | Misc  |
|--------|---------------|---|----------------------------|--------------|--------------------|------------------------------|---|
| P36P1L | 01-0771833-10 | PAR-36 PLUS Super-LED®<br>Drop-In Replacement | Landing (Spot Light, 10°)  | 60,000       | 1.36 Amps @ 14 VDC | -                            | Replacement Outer Lens:<br>68-3971486A-30                             |
| P36P1T | 01-0771833-15 |   | Taxi (Spreader Optic, 40°) | 15,000       |                    | -                            |   |
| P36P2L | 01-0771833-20 |   | Landing (Spot Light, 10°)  | 60,000       | .68 Amps @ 28 VDC  | -                            |   |
| P36P2T | 01-0771833-25 |   | Taxi (Spreader Optic, 40°) | 15,000       | -                  | Whelen Drawing Number: 71833 |   |
| P46P1L | 01-0790750-10 | PAR-46 PLUS Super-LED®<br>Drop-In Replacement | Landing (Spot Light, 10°)  | 105,000      | 2.6 Amps @ 14 VDC  | -                            | Replacement Outer Lens: 68-3971577A30<br>Whelen Drawing Number: 90750 |
| P46P2L | 01-0790750-20 |   | Landing (Spot Light, 10°)  | 105,000      | 1.3 Amps @ 28 VDC  | -                            |   |

**Supplement:** PMA 43 (PAR36)  
PMA 44 (PAR46)  
PMA 45  
PMA 46

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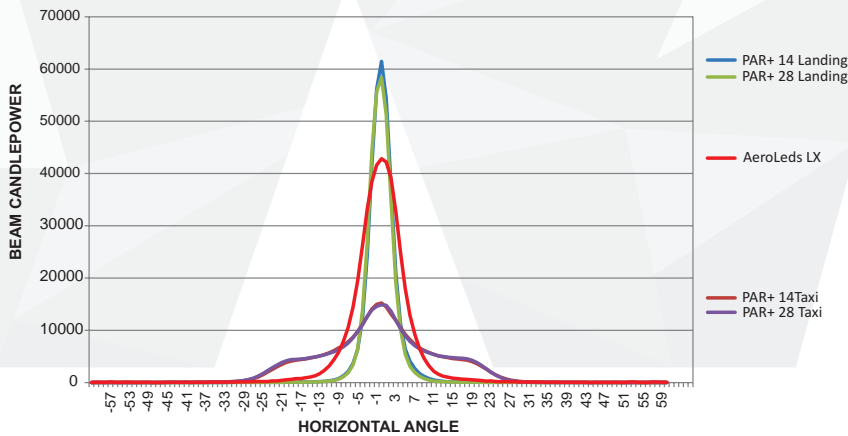
# PARMETHEUS PLUS™ REPLACEMENT LIGHTHEADS

LANDING

TAXI



## TESTING RESULTS



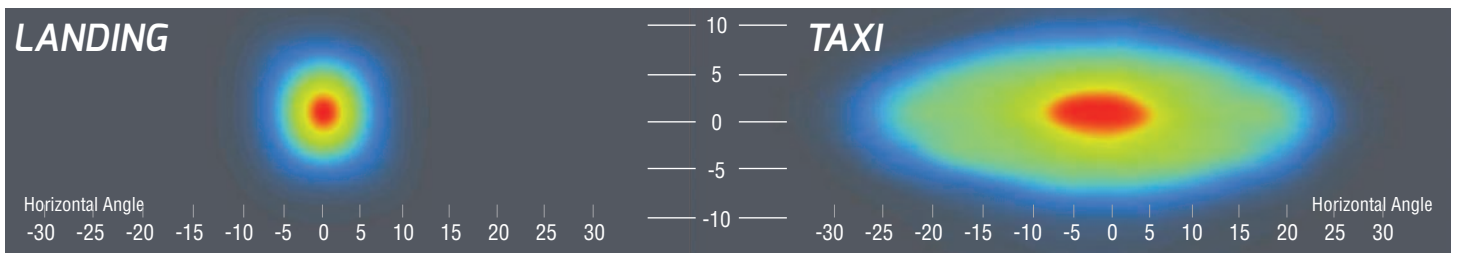
## BULB CHART

| GE Bulb # | Parmetheus Plus | Parmetheus Original |
|-----------|-----------------|---------------------|
| 4416      | P36P1L          | PLED1L              |
| 4505      | P36P2L          | PLED2L              |
| 4509      | P36P1L          | PLED1L              |
| 4587      | P36P2T          | PLED2T              |
| 4591      | P36P2L          | PLED2L              |
| 4593      | P36P2T          | PLED2T              |
| 4594      | P36P2L          | PLED2L              |
| 4595      | P36P1L          | PLED1L              |
| 4596      | P36P2L          | PLED2L              |
| 4623      | P36P2T          | PLED2T              |
| 4626      | P36P2T          | PLED2T              |
| 4627      | P36P2T          | PLED2T              |
| Q4631     | P36P1L          | PLED1L              |
| Q4632     | P36P1L          | PLED1L              |
| 4413      | P46P1L          | PLED461L            |
| 4421      | P46P1L          | PLED461L            |
| 4435      | P46P1L          | PLED461L            |
| 4522      | P46P1L          | PLED461L            |
| 4537      | P46P1L          | PLED461L            |
| 4551      | P46P2L          | PLED462L            |
| 4553      | P46P2L          | PLED462L            |
| 4554      | P46P2L          | PLED462L            |
| Q4554     | P46P2L          | PLED462L            |
| Q4566     | P46P2L          | PLED462L            |
| 4570      | P46P2L          | PLED462L            |
| 4571      | P46P2L          | PLED462L            |

DISCONTINUED

## USABLE LIGHT INTENSITIES

Luminous Intensity in units of Candela is the energy emitted in one direction perceived by the human eye, & Luminous Flux in units of Lumens is the total energy emitted in all directions perceived by the human eye. These isocandela plots show usable light intensities at horizontal and vertical angles up and down. The colors indicate intensities of the light output. The warmer the colors, the more intense the light output. Parmetheus Plus color temperatures reach 6,000 degree Kelvin, which simulates mid-day light.



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# EXTERIOR LIGHTHEAD MODULES



## 90361 SERIES

Model 90361 Series is a self-contained all LED Landing Light Assembly. The design is intended to provide a solution to the needs for a Taxi & Landing Light on a wide variety of aircraft. All current source and electronic circuitry is contained within the housing. Unit is available in several mounting configurations to retrofit existing typical PAR-36 lighting. Outer lens allows for mounting externally on aircraft, option of diffusion lens available upon request. Item ships with flying leads. Contact your OEM for installation eligibility on your aircraft.

| Model   | Part#         | Description  | Drawing# | Weight             | Dimensions   | Current Draw         | Color             | Lens                   | Approvals |
|---------|---------------|--|----------|--------------------|--|----------------------|-------------------|------------------------|-----------|
| 9036110 | 01-0790361-10 | LED Landing, 14 VDC with "U" bracket                     | 90361    | 1.3 lbs<br>(590gm) | Exposed Diameter:<br>4.70" (119mm) x<br>Overall Depth:<br>2.87" (73mm) | 1.5 amps<br>@ 28 VDC | Aviation<br>White | Clear<br>Polycarbonate | -         |
| 9036115 | 01-0790361-15 | LED Taxi, Spreader optic, 14 VDC with "U" bracket        |          |                    |  |                      |                   |                        |           |
| 9036120 | 01-0790361-20 | LED Landing, 28 VDC with "U" bracket, Spot               |          |                    |  |                      |                   |                        |           |
| 9036125 | 01-0790361-25 | LED Taxi, Spreader optic, 28 VDC with "U" bracket, Flood |          |                    |  |                      |                   |                        |           |



## 71141 SERIES

Model 71141 Series is a self-contained all LED Landing Light Assembly. The design is intended to provide a solution to the needs for a Taxi & Landing Light on a wide variety of aircraft. All current source and electronic circuitry is contained within the housing. Unit is available in several mounting configurations to retrofit existing typical PAR-36 lighting. Unit is designed to be mounted internally behind existing lens. Item ships with flying leads. Contact your OEM for installation eligibility on your aircraft.

| Model   | Part#         | Description                                   | Drawing# | Weight              | Dimensions  | Current Draw                           | Color             | Lens                   | Approvals |
|---------|---------------|---|----------|---------------------|---|--|-------------------|------------------------|-----------|
| 7114112 | 01-0771141-12 | LED Landing/Taxi light, internal mount 14 VDC | 71141    | 1.0 lbs.<br>(454gm) | Exposed Diameter:<br>4.46" (113mm) x<br>Overall Depth:<br>1.90" (48mm) (64mm) | 2.0 amps @ 14 VDC<br>1.3 amps @ 28 VDC | Aviation<br>White | Clear<br>Polycarbonate | -         |
| 7114122 | 01-0771141-22 | LED Landing/Taxi light, internal mount 28 VDC |          |                     |   |  |                   |                        |           |



## 90352 SERIES

Model 90352 Series is a self-contained all LED Landing Light Assembly. The design is intended to provide a solution to the needs for a Taxi & Landing Light on a wide variety of aircraft. All current source and electronic circuitry is contained within the housing. Unit is available in several mounting configurations to retrofit existing typical PAR-46 lighting. Unit is designed to be mounted internally behind existing lens. Special models available with MS power input connector vs. flying leads as standard option. Contact your OEM for installation eligibility on your aircraft.

| Model   | Part#         | Description                             | Drawing# | Weight             | Dimensions  | Current Draw       | Color             | Lens                   | Approvals |
|---------|---------------|---|----------|--------------------|---|--------------------|-------------------|------------------------|-----------|
| 9035200 | 01-0790352-00 | LED Landing/Taxi light (natural finish) | 90352    | 2.2 lbs<br>(998gm) | Exposed Diameter: 5.90"<br>(150mm) x Overall Depth:<br>3.18" (81mm) | 3 amps<br>@ 28 VDC | Aviation<br>White | Clear<br>Polycarbonate | -         |
| 9035220 | 01-0790352-20 | LED Landing/Taxi light (Black finish)   |          |                    |   |                    |                   |                        |           |

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# EXTERIOR LIGHTHEAD MODULES

## 90433 SERIES

Model 90433 is a 6 inch round, internal (non-weatherized) LED illumination product. It is styled after a PAR-46 lamp and housing internal combination. 90433 cannot "fit" in place of a 6 inch light bulb. Technology considerations require a stand alone approach requiring a degree of customization to the aircraft. Unit ships with 10" of 18ga flying leads. 28 VDC only. Contact your OEM for installation eligibility on your aircraft.



| Model   | Part#         | Description          | Drawing# | Weight           | Dimensions  | Current Draw | Color          | Lens                | Approvals |
|---------|---------------|----------------------|----------|------------------|---|--------------|----------------|---------------------|-----------|
| 9043300 | 01-0790433-00 | 6" LED Landing light | 90433    | 1.7 lbs. (771gm) | 5.75" (146mm) x 1.11" (28mm) outer ring depth, x 2.61" (66mm) overall depth | 2 amps       | Aviation White | Clear Polycarbonate | -         |

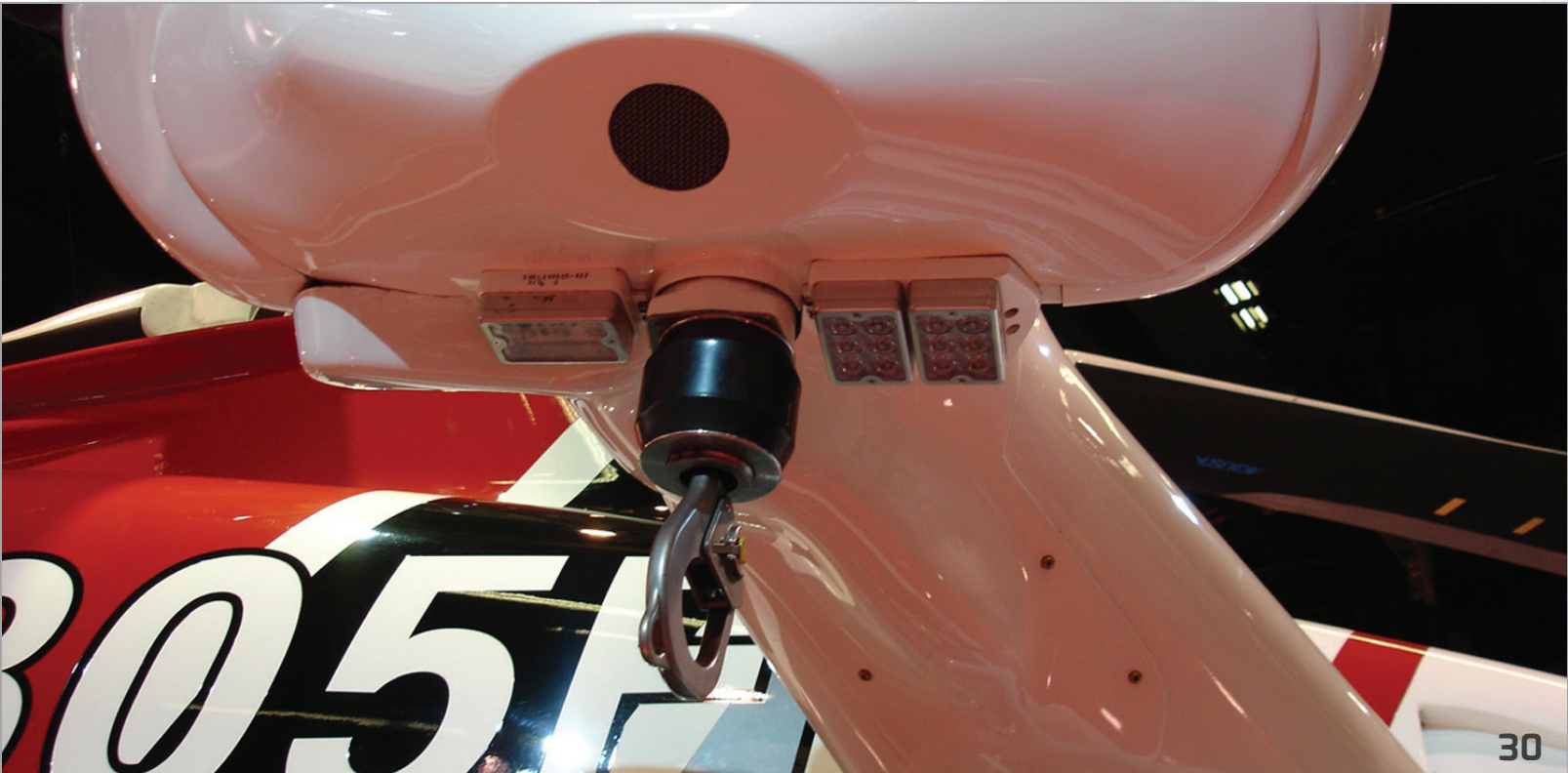
## 71125 SERIES

Model 71125 Series LED recognition light is designed to provide supplemental lighting for a wide variety of aircraft applications. Provides all of the advantages of LED's as a light source, no EMI/RFI, low current draw, low heat, long life. Perfect for vibration prone areas. Item ships with flying leads. Several different beam spreads available. Designed to replace the Whelen A775 Series. Version containing integrated MS connector also available. Can be used in conjunction with 71700 Flasher control assembly.



| Model   | Part#         | Description                    | Drawing# | Weight           | Dimensions   | Current Draw                          | Color          | Lens                | Candle Power |
|---------|---------------|--------------------------------|----------|------------------|--|---------------------------------------|----------------|---------------------|--------------|
| 7112510 | 01-0771125-10 | 10 degree beam pattern, 14 VDC | 71125    | 0.3 lbs. (136gm) | 1.95" (50mm) x 3.25" (83mm) x 1.25" (32mm) Overall Depth | 0.9 amps @ 14 VDC, 0.45 amps @ 28 VDC | Aviation White | Clear Polycarbonate | 30,000+      |
| 7112511 | 01-0771125-11 | 20 degree beam pattern, 14 VDC |          |                  |  |                                       |                |                     |              |
| 7112512 | 01-0771125-12 | 90 degree beam pattern, 14 VDC |          |                  |  |                                       |                |                     |              |
| 7112520 | 01-0771125-20 | 10 degree beam pattern, 28 VDC |          |                  |  |                                       |                |                     |              |
| 7112521 | 01-0771125-21 | 20 degree beam pattern, 28 VDC |          |                  |  |                                       |                |                     |              |
| 7112522 | 01-0771125-22 | 90 degree beam pattern, 28 VDC |          |                  |  |                                       |                |                     |              |

Order RECLENS to obtain a kit of 20, 30 and 90 degree Lens Optic Inserts



# EXTERIOR LIGHTHEAD MODULES



## 71685 SERIES

71685 Series LED Recognition/Landing light assembly. Available with a polycarbonate 30° optic spreader lens for taxiing.

| Model   | Part#         | Description                  | Drawing# | Weight               | Dimensions  | Current Draw                          | Color             | Lens                   | Candle Power |
|---------|---------------|------------------------------|----------|----------------------|---|---------------------------------------|-------------------|------------------------|--------------|
| 7168501 | 01-0771685-01 | LED recognition light 14 VDC | 71685    | 0.28 lbs.<br>(127gm) | 2.07" (53mm) x 3.64" (93mm)<br>x Depth: 0.979" (25mm) | 0.44 amps (28VDC)<br>1.0 amps (14VDC) | Aviation<br>White | Clear<br>Polycarbonate | 12,000       |
| 7168500 | 01-0771685-00 | LED recognition light 28 VDC |          |                      |   |                                       |                   |                        |              |



## 71259 SERIES

71259 Series is an Interior LED Illumination Product. It is designed as a stand alone or it can be attached to other Whelen LED lighting, to provide landing/taxi/recognition lighting behind an aircraft outer lens. Assembly ships with two sets of 10", 18 ga. leads and terminates with A444 style connectors. There are choices of 10, 20 & 30 degree optic lighting spreads for these assemblies. 28 VDC Only. Contact your OEM for installation eligibility on your aircraft.

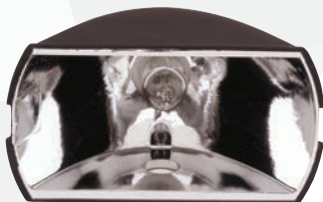
| Model   | Part#         | Description  | Drawing# | Weight              | Dimensions                                    | Current Draw | Color | Lens                   | Approvals |
|---------|---------------|--|----------|---------------------|---|--------------|-------|------------------------|-----------|
| 7125900 | 01-0771259-00 | Landing/taxi/recognition degree landing / 20 degree taxi | 71259    | 0.65 lbs<br>(295gm) | 3.25" (83mm) x 3.90"<br>(99mm) x 2.05" (52mm) | 1.25 amps    | White | Clear<br>Polycarbonate | -         |
| 7125901 | 01-0771259-01 | Landing/taxi 10 degree landing 30 degree taxi            |          |                     |   |              |       |                        |           |



## 71888 SERIES

LED Form / Fit / Function replacement to A775 & A775EXP series. Contact factory for more details.

| Model   | Ref Models | Part#         | Description                                | Drawing# | Weight              | Dimensions                                       | Current Draw | Color | Candela | Lens                   | Approvals |
|---------|------------|---------------|--|----------|---------------------|--|--------------|-------|---------|------------------------|-----------|
| 7188800 |            | 01-0771888-00 | New! LED Recognition Light Assembly 14 VDC | 71888    | 0.25 lbs<br>(113gm) | 3.16" (80mm) x<br>1.65" (42mm) x<br>1.47" (37mm) | 0.6 amps     | White | 30,000  | Clear<br>Polycarbonate | -         |
| 7188801 |            | 01-0771888-01 | New! LED Recognition Light Assembly 28 VDC |          |                     |  |              |       |         |                        | -         |
| 7187601 | A775EXP2   | 01-0771876-01 | GAC specific. GAC bracket 28 VDC           | 71876    |                     |  |              |       |         |                        | -         |
| 7189800 | 7045300    | 01-0771898-00 | Beech Specific. No paint. Amp 28 VDC       | 71898    | 0.24lbs<br>(109gm)  |  | 0.3 amps     |       |         |                        | -         |
| 71898P0 | 7045301    | 01-0771898-P0 | Beech Specific. Paint. Amp 28 VDC          |          |                     |  |              |       |         |                        | -         |
| 7189801 | 7042900    | 01-0771898-01 | Beech Specific. Terminals 28 VDC           |          |                     |  |              |       |         |                        | PMA       |



## A775 SERIES

A775 Series Recognition light assembly which produces up to 22,000 beam candlepower using only a 35 Watt lamp.

# Not Recommended

| Model   | Part#         | Description                     | Drawing# | Weight              | Dimensions                                       | Current Draw                             | Color | Approvals |
|---------|---------------|---------------------------------|----------|---------------------|--|--|-------|-----------|
| 7011001 | 01-0770110-01 | Molex connector (Piper), 14 VDC | 70110    | 0.14 lbs.<br>(64gm) | 1.75" (44mm) x<br>3.25" (83mm) x<br>2.25" (57mm) | 2.5 amps @ 14 VDC,<br>1.25 amps @ 28 VDC | -     | -         |
| A77514  | 01-0770110-04 | 12" leads, 14 VDC               |          |                     |  |  |       |           |
| 7011002 | 01-0770110-02 | Molex connector (Piper), 28 VDC |          |                     |  |  |       |           |
| A77528  | 01-0770110-05 | 12" leads, 28 VDC               |          |                     |  |  |       |           |

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# EXTERIOR LIGHTHEAD MODULES

## MODEL 71325

Model 71325 is an LED Recognition/Exterior illumination product. It is an updated version of Model 71092 recognition light (2008 Catalog). Model 71325 exceeds light output of 71092 three fold. Unit ships with 7" wires into A447 style pin connector. Will operate from 14-28VDC.



| Model | Part#         | Description           | Drawing# | Weight           | Dimensions  | Current Draw | Color          | Lens                | Candle Power |
|-------|---------------|-----------------------|----------|------------------|---|--------------|----------------|---------------------|--------------|
| 71325 | 01-0271325-00 | LED recognition light | 71325    | 0.17 lbs. (77gm) | 1.45" (37mm) Center to Center Mounting Holes (Height) x 2.56" (65mm) x 1.38" (35mm) | 0.25 amps    | Aviation White | Clear Polycarbonate | 12,000       |

## MODEL 71674 / 71665

Model 71674 is an Interior mounted LED Landing/Taxi/Recognition light. The unit comes with equipped with 8" flying leads. Unit available in 14 and 28 VDC. Contact Whelen factory for installation eligibility on your aircraft.



| Model | Part#         | Description                     | Drawing# | Weight          | Dimensions                                       | Current Draw                            | Color | Candela | Lens  | Approvals |
|-------|---------------|---------------------------------|----------|-----------------|--|---|-------|---------|-------|-----------|
| 71665 | 01-0771665-00 | Landing/taxi/recognition 14 VDC | 71665    | 1.4 lbs (64 gm) | 3.25" (82.5mm) x 2.19" (55.62mm) x 5.40" (137mm) | Landing 3 amps, taxi 1 amp, 14 VDC      | White | 140,000 | Clear | -         |
| 71674 | 01-0771674-00 | Landing/taxi/recognition 28 VDC | 71674    |                 |  | Landing 1.5 amps, taxi 0.5 amps, 28 VDC |       |         |       |           |

## 70303 SERIES

70303 Series Wingtip Recognition light assembly using a 25 watt halogen lamp. Used on Mooney Aircraft.



| Model   | Part#         | Description              | Drawing# | Weight          | Dimensions                               | Current Draw                    | Color | Lens | Approvals |
|---------|---------------|--------------------------|----------|-----------------|--|---------------------------------|-------|------|-----------|
| 7030300 | 01-0770303-00 | Recognition Light 14 VDC | 70303    | 0.1 lbs. (45gm) | 1.25" (32mm) x 2.1" (53mm) x 1.8" (46mm) | 2 amps @ 14 VDC, 1 amp @ 28 VDC | -     | -    | FAA/PMA   |
| 7030301 | 01-0770303-01 | Recognition Light 28 VDC |          |                 |  |                                 |       |      | -         |



# EXTERIOR LIGHTHEAD MODULES



## MODEL 71186

Model 71186 is a compact illumination solution that can be utilized in many lighting upgrade situations (see also 71325). 71186 ships with 6" flying leads. Optimized for 28 VDC, will operate from 14-28 VDC.

| Model | Part#         | Description        | Drawing# | Weight          | Dimensions   | Current Draw | Color             | Candela | Lens                   | Approvals |
|-------|---------------|--------------------|----------|-----------------|--|--------------|-------------------|---------|------------------------|-----------|
| 71186 | 01-0771186-01 | LED downwash light | 71186    | 0.2 lbs. (91gm) | 1.95" (50mm) Inner Dia,<br>2.15" (55mm) Outside face,<br>1.0" (25mm) Overall depth | 0.25a        | Aviation<br>White | 4,800   | Clear<br>Polycarbonate | -         |



## 71280 SERIES

71280 Series utilized Model 71325 hidden inside the optic housing. Optic lens is intended to be flush mounted to skin of aircraft (Black portion of assembly remaining inside aircraft), creating the 'hot' spot 20 degrees behind center viewing. Housing constructed from polycarbonate with an aluminum back plate (see 71325). Optimized for 28VDC, will operate form 14-28 VDC.

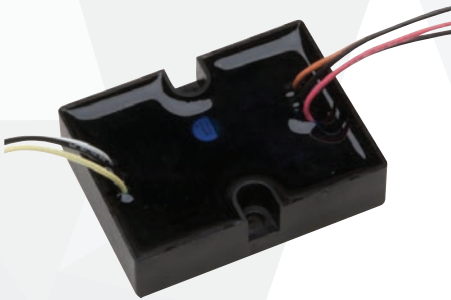
| Model   | Part#         | Description            | Drawing# | Weight              | Dimensions  | Current Draw | Color             | Lens          | Approvals |
|---------|---------------|------------------------|----------|---------------------|---|--------------|-------------------|---------------|-----------|
| 7128010 | 01-0771280-10 | LED Ice Detection (LH) | 71280    | 0.3 lbs.<br>(136gm) | 2.01" (51mm) H x 2.7" (69mm)<br>D x 4.28" (109mm) L | -            | Aviation<br>White | Polycarbonate | -         |
| 7128020 | 01-0771280-20 | LED Ice Detection (RH) |          |                     |   |              |                   |               |           |



## 71156 SERIES

Model 71156 Series is an electronic 'Pulse' light flasher for use with Whelen Taxi & Landing LED lighthoods (catalog and custom versions). 71156 is being integrated into aircraft model upgrades and new type certified aircraft. Flasher operates four outputs steady on or will allow two outputs to be flashed or steady independent of the other. MS Connectors with aluminum housing. Tested in accordance with RTCA/DO-160 Environmental Tests.

| Model   | Part#         | Description                    | Drawing# | Weight           | Dimensions                                 | Current Draw                   | Approvals |
|---------|---------------|--------------------------------|----------|------------------|--|--------------------------------|-----------|
| 7115604 | 01-0771156-04 | LED Flasher Assembly, 4 Output | 71156    | 1.1 lbs. (499gm) | 5.0 (127mm) x 1.8 (46mm) x<br>4.56 (116mm) | 20A max (all outputs)<br>@ 28V | -         |



## 71700 SERIES

Model 71700 is an electronic light flasher for use with Whelen LED Exterior lighting products. The flasher operates two outputs steady on or will flash outputs alternately. This has the operating ability to handle up to 4 amps of power.

| Model | Part#         | Description              | Drawing# | Weight          | Dimensions                                    | Current Draw            | Approvals |
|-------|---------------|--------------------------|----------|-----------------|---|-------------------------|-----------|
| 71700 | 01-0771700-00 | Electronic light flasher | 71700    | 0.14 lbs (64gm) | 0.54" (14mm) x 2.04" (52mm) x 2.74"<br>(70mm) | 4 amps max (all ouputs) | -         |

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# EXTERIOR LIGHTHEAD MODULES

## MODEL 71375

Model 71375 is an electronic light Flasher for use with Whelen LED Exterior Lighting products (catalog and custom versions). Flasher operates two outputs steady on or will flash outputs alternately. D389999 connectors pictured. Aluminum housing. Tested in accordance with RTCA/DO-160 Environmental standards.



| Model   | Part#         | Description          | Drawing# | Weight           | Dimensions   | Current Draw                     | Flash Rate           |
|---------|---------------|----------------------|----------|------------------|--|----------------------------------|----------------------|
| 7137500 | 01-0771375-00 | LED Flasher Assembly | 71375    | 0.5 lbs. (227gm) | Exposed height: 1.56" (40mm)<br>x 3.5" (89mm) x 4.5" (114mm) | 5A max (all outputs) @<br>28 VDC | 90 fpm<br>(combined) |

## PAR LAMP SERIES

Whelen's family of quartz halogen PAR lamps offer two distinct features over standard incandescent PAR lamps; sustained light intensity and 10 times the average life. Tests have shown 250 hours lab life versus 25 for standard off-the-shelf lamps. This dramatically reduces costs associated with replacement labor and parts. Where incandescent lamps decline in intensity (beam candlepower) over time due to filament deterioration, Whelen's family of lamps maintain their rated intensity throughout their life providing a constant level of visibility.



| Model   | Part#         | Description    | Drawing# | Voltage | Wattage | Candela | Approvals |
|---------|---------------|----------------|----------|---------|---------|---------|-----------|
| Q4509   | 34-0750748-00 | Par-36 Landing | 50748    | 14 VDC  | 100     | 140,000 | FAA/PMA   |
| Q5587   | 34-0750707-00 | Par-36 Taxi    | 50707    | 28 VDC  | 250     | 40,000  | FAA/PMA   |
| Q5596   | 34-0750692-00 | Par-36 Landing | 50692    | 28 VDC  | 250     | 150,000 | FAA/PMA   |
| Q4591   | 34-0750767-00 | Par-36 Landing | 50767    | 28 VDC  | 100     | 90,000  | FAA/PMA   |
| Q4566   | 34-0750810-00 | Par-46 Landing | 50810    | 28 VDC  | 450     | 150,000 | FAA/PMA   |
| Q4559XX | 34-0750820-00 | Par-64 Landing | 50820    | 28 VDC  | 600     | 765,000 | FAA/PMA   |
| Q4681   | 34-0850839-00 | Par-46 Landing | 50839    | 28 VDC  | 450     | 310,000 | -         |

## 90095 SERIES

90095 Series are fixtures that can accept a standard PAR-46 lamp, sold with/without a lamp.



| Model   | Part#         | Description                     | Drawing# | Weight                                | Dimensions                                     | Current Draw | Approvals |
|---------|---------------|---------------------------------|----------|---------------------------------------|--|--------------|-----------|
| 9009504 | 01-0790095-04 | Right Side mounting w/4580 lamp | 90095    | 0.42 lbs. (191gm)<br>Weight less lamp | Depth: 2.9" (74mm) x<br>Diameter: 6.0" (152mm) | -            | -         |
| 9009505 | 01-0790095-05 | Left Side mounting w/4580 lamp  |          |                                       |  |              |           |
| 9009507 | 01-0790095-07 | Housing only, less lamp         |          |                                       |  |              |           |

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# EXTERIOR LIGHTHEAD MODULES

**71080**



**P46P2L**



**71379**



**71055**



# EXTERIOR LIGHTHEAD MODULES

## 90093 SERIES

90093 Series Ice Detection light assembly which uses a 25 watt lamp and is sealed for a pressure differential of 10 psi.



| Model   | Part#         | Description                          | Drawing# | Weight          | Dimensions                               | Current Draw                         | Color | Lens | Approvals |
|---------|---------------|--------------------------------------|----------|-----------------|--|--------------------------------------|-------|------|-----------|
| 9009303 | 01-0790093-03 | ICE Detection Light assembly, 14 VDC | 90093    | 0.2 lbs. (91gm) | 2.0" (51mm) x 2.0" (51mm) x 1.87" (48mm) | 0.9 amps @28 VDC<br>1.8 amps @14 VDC | -     | -    | -         |
| 9009300 | 01-0790093-00 | ICE Detection Light assembly, 28 VDC |          |                 |  |                                      |       |      | FAA/PMA   |

## 71904 SERIES

71904 Series LED Ice Detection light assembly is sealed for a pressure differential of 10 psi. Led equivalent to 90093 Series. Contact factory for more info.



| Model | Part#         | Description                          | Drawing# | Weight          | Dimensions                               | Current Draw                         | Color | Lens | Approvals |
|-------|---------------|--------------------------------------|----------|-----------------|--|--------------------------------------|-------|------|-----------|
| 71904 | 01-0771904-00 | ICE Detection Light assembly, 28 VDC | 71904    | 0.2 lbs. (91gm) | 2.0" (51mm) x 2.0" (51mm) x 1.87" (48mm) | 1.8 amps @14 VDC<br>0.9 amps @28 VDC | -     | -    | -         |

## 90195 SERIES

90195 Series are fixtures that can accommodate a standard PAR-36 lamp, available with or without a lamp.



| Model   | Part#         | Description             | Drawing# | Weight                       | Dimensions                   | Approvals |
|---------|---------------|-------------------------|----------|------------------------------|------------------------------|-----------|
| 9019500 | 01-0790195-00 | Housing only, less lamp | 90195    | 0.5 lbs. (227gm) (less lamp) | 3.03" (77mm) x 4.88" (124mm) | -         |
| 9019501 | 01-0790195-01 | With #4596 lamp         |          |                              |                              |           |
| 9019502 | 01-0790195-02 | With #Q5596 lamp        |          |                              |                              |           |
| 9019503 | 01-0790195-03 | With #4587 lamp         |          |                              |                              |           |
| 9019504 | 01-0790195-04 | With #Q5587 lamp        |          | 1.0 lbs. (454gm) (with lamp) |                              |           |

## A715-1 SERIES

A715-1 Series are fixtures that can accommodate a standard PAR-36 lamp assembly, available with or without a lamp. Used on Beechcraft.



| Model   | Part#         | Description              | Drawing# | Weight                     | Dimensions                   | Approvals |
|---------|---------------|--------------------------|----------|----------------------------|------------------------------|-----------|
| A7151   | 01-0770155-00 | Housing only, less lamp  | 70155    | 0.4 lbs. (181gm) less lamp | 2.12" (54mm) x 4.75" (121mm) | FAA/PMA   |
| 7015502 | 01-0770155-02 | Housing with #Q5596 lamp |          | 1.0 lbs. (454gm) with lamp |                              | -         |

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# INTERIOR LIGHTING



## MODEL 71144

Features a positive off position & rheostat controlled light intensity. Available in 28VDC only. Models including 'side' mounted intensity control are available which is designed for the S76D.

| Model   | Part#         | Description                              | Drawing# | Weight              | Dimensions  | Current Draw       | Color             | Hood                                   | Approvals |
|---------|---------------|--|----------|---------------------|-------------|--------------------|-------------------|--|-----------|
| 7114416 | 01-0771144-16 | LED Adjustable (Gooseneck) Map Light 16" | 71144    | 0.46 Lbs<br>(209gm) | 16" (406mm) | 0.06 Amps<br>@ 28V | Aviation<br>White | Black Nylon Hood:<br>fixed in position | -         |

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## 70348 SERIES

Instrument post light assemblies designed to illuminate the instrument panel and function as instrument mounting bolts. The unit has a #10-32 mounting thread and uses the #327 lamp (available in 28 VDC only).



| Model   | Part#         | Description              | Drawing# | Weight            | Dimensions                    | Current Draw       | Color              | Lens          | Approvals |
|---------|---------------|--------------------------|----------|-------------------|-------------------------------|--------------------|--------------------|---------------|-----------|
| 7034800 | 01-0770348-00 | Instrument White, 28 VDC | 70348    | 0.037 lbs. (17gm) | Exposed Height: 0.856" (22mm) | 0.04 amps @ 28 VDC | White, Clear & Red | Polycarbonate | -         |
| 7034801 | 01-0770348-01 | Red with spacer, 28 VDC  |          |                   |                               |                    |                    |               |           |
| 7034802 | 01-0770348-02 | Clear, 28 VDC            |          |                   |                               |                    |                    |               |           |
| 7034803 | 01-0770348-03 | Red, 28 VDC              |          |                   |                               |                    |                    |               |           |

## 71434, 71440 & 71450 SERIES

The 71434, 71440, & 71450 Series LED (Light Emitting Diode) instrument post light assemblies are designed to illuminate the instrument panel and function as instrument mounting bolts. They are a high quality, long lasting modern alternatives to standard incandescent post lights. Benefits of upgrading to LED technology include: Long Life (approx. 20,000 hours); Reduced Power Consumption (compared to conventional light sources); Shock & Vibration Resistance (no fragile filament to burn out); Light Color & Temperature (produces bright, crisp light); and No EMI or RFI Interference

Model 71434 is identical to the 71450 without the connector nut. Both are available in Black and Grey. 14V version available with White LED, 28V version with White or Red. Made to replace existing A350 and A350CN assemblies.

Model 71440 has a #10-32 mounting thread. 28V version available with White or Red LED. Available in Black. Made to replace Model 70348.

28 VDC LED's Listed

- White 34-0618060-WO
- Red 34-0618060-RO
- Blue 34-0618060-BO
- NVIS Green A 34-0618417-GA
- NVIS Green B 34-0618417-GB

NVIS Model Post Lights Now Available. Contact Factory



| Model    | Part#          | Description                               | Drawing# | Weight            | Dimensions                               | Current Draw             | Color | Lens | Approvals |
|----------|----------------|---|----------|-------------------|--|--------------------------|-------|------|-----------|
| 71434b11 | 01-0771434b-11 | LED post light, 14 VDC, White long Black  | 71434    | 0.037 lbs. (17gm) | Exposed Height: 0.95" (24mm) with spacer | .10 mA @ 14 VDC & 28 VDC | -     | -    | -         |
| 71434b13 | 01-0771434b-13 | LED post light, 14 VDC, White short Black |          |                   |  |                          |       |      |           |
| 71434b20 | 01-0771434b-20 | LED post light, 28 VDC, Red long Black    |          |                   |  |                          |       |      |           |
| 71434b21 | 01-0771434b-21 | LED post light, 28 VDC, White long Black  |          |                   |  |                          |       |      |           |
| 71434b22 | 01-0771434b-22 | LED post light, 28 VDC, Red short Black   |          |                   |  |                          |       |      |           |
| 71434b23 | 01-0771434b-23 | LED post light, 28 VDC, White short Black |          |                   |  |                          |       |      |           |
| 71434g11 | 01-0771434g-11 | LED post light, 14 VDC, White long Grey   |          |                   |  |                          |       |      |           |
| 71434g13 | 01-0771434g-13 | LED post light, 14 VDC, White short Grey  |          |                   |  |                          |       |      |           |
| 71434g20 | 01-0771434g-20 | LED post light, 28 VDC, Red long Grey     |          |                   |  |                          |       |      |           |
| 71434g21 | 01-0771434g-21 | LED post light, 28 VDC, White long Grey   |          |                   |  |                          |       |      |           |
| 71434g22 | 01-0771434g-22 | LED post light, 28 VDC, Red short Grey    | 71450    | 0.037 lbs. (17gm) | 0.875" (22mm) without spacer             | .10 mA @ 14 VDC & 28 VDC | -     | -    |           |
| 71434g23 | 01-0771434g-23 | LED post light, 28 VDC, White short Grey  |          |                   |  |                          |       |      |           |
| 7144000  | 01-0771440-00  | LED post light, 28 VDC, Red with psacer   |          |                   |  |                          |       |      |           |
| 7144001  | 01-0771440-01  | LED post light, 28 VDC, White             |          |                   |  |                          |       |      |           |
| 7144002  | 01-0771440-02  | LED post light, 28 VDC, Red               |          |                   |  |                          |       |      |           |
| 71450b11 | 01-0771450b-11 | LED post light, 14 VDC, White long Black  |          |                   |  |                          |       |      |           |
| 71450b13 | 01-0771450b-13 | LED post light, 14 VDC, White short Black |          |                   |  |                          |       |      |           |
| 71450b20 | 01-0771450b-20 | LED post light, 28 VDC, Red long Black    |          |                   |  |                          |       |      |           |
| 71450b21 | 01-0771450b-21 | LED post light, 28 VDC, White long Black  |          |                   |  |                          |       |      |           |
| 71450b22 | 01-0771450b-22 | LED post light, 28 VDC, Red short Black   |          |                   |  |                          |       |      |           |
| 71450b23 | 01-0771450b-23 | LED post light, 28 VDC, White short Black |          |                   |  |                          |       |      |           |
| 71450g11 | 01-0771450g-11 | LED post light, 14 VDC, White long Grey   |          |                   |  |                          |       |      |           |
| 71450g13 | 01-0771450g-13 | LED post light, 14 VDC, White short Grey  |          |                   |  |                          |       |      |           |
| 71450g20 | 01-0771450g-20 | LED post light, 28 VDC, Red long Grey     |          |                   |  |                          |       |      |           |
| 71450g21 | 01-0771450g-21 | LED post light, 28 VDC, White long Grey   |          |                   |  |                          |       |      |           |

## A350 & A350CN SERIES

Instrument post light assemblies designed to illuminate the instrument panel and function as instrument mounting bolts. The A350 is identical to the A350CN, but without the connector nut.

Please refer to Pspot Light Cross Reference list in back for full details.



| Model  | Part#          | Description                      | Drawing# | Weight            | Dimensions   | Current Draw   | Colors | Lens | Approvals |
|--------|----------------|----------------------------------|----------|-------------------|--|--|--------|------|-----------|
| A350   | 01-0770116-( ) | Instrument post light assemblies | 70116    | 0.037 lbs. (17gm) | Exposed Height: 0.95" (24mm) with spacer<br>0.875" (22mm) without spacer | 0.2 amps @ 6 VDC<br>0.08 amps @ 14 VDC<br>0.04 amps @ 28 VDC | -      | -    | -         |
| A350CN | 01-0770119-( ) | Instrument post light assemblies | 70119    |                   |  |  |        |      |           |

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# INTERIOR LIGHTING



## 70820 SERIES

Model 70820 Series are LED (Light Emitting Diode) interior map/reading light assemblies. They are designed for cabin, or cockpit illumination. It has a 360° swivel base, allowing for infinite light angle adjustment. Utilizing LED technology, the following advantages are offered: Long Life (approx. 20,000 hours); Reduced Power Consumption (compared to alternative light sources) and Shock Vibration Resistant.

| Model   | Part#         | Description                                | Drawing# | Weight           | Dimensions  | Current Draw                           | Color     | Lens | Approvals |
|---------|---------------|--|----------|------------------|---|--|-----------|------|-----------|
| 7082000 | 01-0770820-00 | White LED, natural aluminum finish, 14 VDC | 70820    | 0.19 lbs. (86gm) | 1.13" (28.7mm, base) x 1.34" (34mm) x 2.66" (67.56mm swivel dia.) | 0.02 amps @ 14 VDC, 0.02 amps @ 28 VDC | Red White | -    | -         |
| 7082002 | 01-0770820-02 | White LED, Black anodized finish, 14 VDC   |          |                  |   |  |           |      |           |
| 7082004 | 01-0770820-04 | Red LED, Black anodized finish, 14 VDC     |          |                  |   |  |           |      |           |
| 7082001 | 01-0770820-01 | White LED, natural aluminum finish, 28 VDC |          |                  |   |  |           |      |           |
| 7082003 | 01-0770820-03 | White LED, Black anodized finish, 28 VDC   |          |                  |   |  |           |      |           |
| 7082005 | 01-0770820-05 | Red LED, Black anodized finish, 28 VDC     |          |                  |   |  |           |      |           |



## A315-HI SERIES

Cockpit utility light assembly which rotates for convenience in reading maps and illuminating instrument panels. Furnished with a right angle bracket for ease of mounting. Available with Instrument White (Blue) lens, Red or Clear. Uses a 14 VDC, #1414 or a 28 VDC, #1495 lamp.

| Model    | Part#         | Description                       | Drawing# | Weight           | Dimensions                             | Current Draw                            | Color                | Lens          | Approvals |
|----------|---------------|-----------------------------------|----------|------------------|--|---|----------------------|---------------|-----------|
| A315HIR1 | 01-0770113-00 | Red lens, 14 VDC                  | 70113    | 0.07 lbs. (32gm) | 2.2 (56mm) x 0.93 (24mm) x 0.87 (22mm) | 0.46 amps @ 14 VDC<br>0.3 amps @ 28 VDC | Red<br>Blue<br>White | Polycarbonate | -         |
| A315HIW1 | 01-0770113-02 | White lens, 14 VDC                |          |                  |  |   |                      |               |           |
| A315HIB1 | 01-0770113-04 | Instrument White lens, 14 VDC     |          |                  |  |   |                      |               |           |
| A315HIR2 | 01-0770113-01 | Red lens, 28 VDC                  |          |                  |  |   |                      |               |           |
| A315HIW2 | 01-0770113-03 | White lens, 28 VDC                |          |                  |  |   |                      |               |           |
| A315HIB2 | 01-0770113-05 | Instrument White lens, 28 VDC NSN |          |                  |  |   |                      |               |           |



## A315-LO SERIES

Cockpit utility light assembly which rotates for convenience in reading maps and illuminating instrument panels. Optional right angle bracket available for ease of mounting. Uses a 14 VDC, #1893 or a 28 VDC, #1864 lamp.

| Model    | Part#         | Description | Drawing# | Weight           | Dimensions                              | Current Draw                             | Color | Lens | Approvals |
|----------|---------------|-------------|----------|------------------|---|--|-------|------|-----------|
| A315LO14 | 01-0770106-00 | 14 VDC      | 70106    | 0.06 lbs. (27gm) | 2.18 (55mm) x 0.81 (21mm) x 0.81 (21mm) | 0.33 amps @ 14 VDC<br>0.17 amps @ 28 VDC | White | -    | -         |
| A315LO28 | 01-0770106-01 | 28 VDC      |          |                  |   |  |       |      |           |



## A360 SERIES

A610 flash tube and A612 glass lens are used for installing wingtip strobes in single engine Cessnas 1972 and later. The existing position light retainer is modified to accommodate the lens, and the flash tube.

| Model    | Part#         | Description                             | Drawing#                     | Weight          | Dimensions  | Current Draw | Color | Lens  | Approvals |
|----------|---------------|---|------------------------------|-----------------|---|--------------|-------|-------|-----------|
| A360631  | 01-0770142-00 | #631 lamp, 9 Watt, 14 VDC               | A360: 70142<br>A360SW: 70143 | 0.2 lbs. (91gm) | 4.0 (101mm) x 2.75 (70mm) x Depth Behind Mounting Flange: 1.40 (36mm) | .67 amps     | White | Glass | -         |
| A3601141 | 01-0770142-02 | #1141 lamp, 18 Watt, 14 VDC             |                              |                 |   |              |       |       |           |
| A360S    | 01-0770143-00 | #631 lamp, 9 Watt, 14 VDC with switch   |                              |                 |   |              |       |       |           |
| A360SW1  | 01-0770143-02 | #1141 lamp, 18 Watt, 14 VDC with switch |                              |                 |   |              |       |       |           |
| A360303  | 01-0770142-01 | #303 lamp, 9 Watt, 28 VDC               |                              |                 |   |              |       |       |           |
| A360307  | 01-0770142-03 | #307 lamp, 18 Watt, 28 VDC              |                              |                 |   |              |       |       |           |
| A360S303 | 01-0770143-01 | #303 lamp, 9 Watt, 28 VDC with switch   |                              |                 |   |              |       |       |           |
| A360S307 | 01-0770143-03 | #307 lamp, 18 Watt, 28 VDC with switch  |                              |                 |   |              |       |       |           |

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**“...DESIGNED FOR CABIN, OR COCKPIT ILLUMINATION.”**

## 71928 SERIES

Model 71928 series LED interior cabin light is a high quality, long lasting, dimmer controllable, modern alternative to the A360 series incandescent interior cabin lights. It offers significant technological upgrades over previous products.



| Model | Part#         | Description                       | Drawing# | Weight         | Dimensions                                 | Current Draw    | Color | Lens                            | Approvals |
|-------|---------------|-----------------------------------|----------|----------------|--|-----------------|-------|---------------------------------|-----------|
| 71928 | 01-0771928-00 | LED interior light, frosted Black | 71928    | 0.12lbs (54gm) | 4" (101.6mm) x 2.75" (70mm) x 0.44" (11mm) | 100 mA @ 28 VDC | White | Translucent white Polycarbonate | -         |

## 70813 SERIES

Model 70813 series LED interior cabin light is a high quality, long lasting, dimmer controllable, modern alternative to the A360 series incandescent interior cabin lights. It offers significant technological upgrades over previous products. Utilizing LED (Light Emitting Diode) technology, the following advantages are offered: Long Life (approx. 100,000 hours); Reduced Power Consumption (compared to alternative light sources); Shock & Vibration Resistant (no fragile filament to burn out); Light (produces bright White light); Small Profile (allows for shallow mounting depth) and No EMI or RFI Interference.



| Model   | Part#         | Description | Drawing# | Weight          | Dimensions                             | Current Draw | Color          | Lens  | Approvals |
|---------|---------------|-------------|----------|-----------------|--|--------------|----------------|-------|-----------|
| 7081303 | 01-0770813-03 | 14 VDC      | 70813    | 0.1 lbs. (45gm) | 0.25 (6mm) x 4.0 (101mm) x 2.75 (70mm) | .08 amps     | Aviation White | Glass | -         |
| 7081307 | 01-0770813-07 | 14 VDC      |          |                 |  | 0.16 amps    |                |       |           |
| 7081311 | 01-0770813-11 | 14 VDC      |          |                 |  | 0.24 amps    |                |       |           |
| 7081300 | 01-0770813-00 | 28 VDC      |          |                 |  | .04 amps     |                |       |           |
| 7081304 | 01-0770813-04 | 28 VDC      |          |                 |  | .08 amps     |                |       |           |
| 7081308 | 01-0770813-08 | 28 VDC      |          |                 |  | 0.16 amps    |                |       |           |
| 7081312 | 01-0770813-12 | 28 VDC      |          |                 |  | 0.24 amps    |                |       |           |

## 71414 SERIES

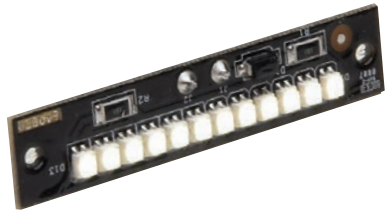
Model 71414 is an LED inspection light designed to replace GRIMES A5395-23 on the S76 Helicopter. The product comes standard with a Black anodize finish and a Clear polycarbonate lens. 71414 also comes with a bracket and has a hex head locking assembly to hold the light at the desired angle. 71414 produces more (>13) candela than the GRIMES light it replaces, unit comes with 12 flying leads.



| Model | Part#         | Description                                 | Drawing# | Weight            | Dimensions                                      | Current Draw | Color          | Lens                | Approvals |
|-------|---------------|---|----------|-------------------|---|--------------|----------------|---------------------|-----------|
| 71414 | 01-0771414-00 | With Viewing Angle up to 70 degrees, 24 VDC | 71414    | 0.08lbs (36.29gm) | 2.17(55.12mm) x 1.19 (30.23mm) x 0.80 (20.32mm) | 60 mA        | Aviation White | Clear Polycarbonate | -         |

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# INTERIOR LIGHTING



## MODEL 70985

Model 70985 is an LED interior illumination assembly. It's .5" wide and its available with a 2.45" or a 1.95" length. Designed to be used in conjunction with customer designed interior aircraft parts. Item ships with 7" flying leads. Will function normally from 24-30 Volts.

| Model   | Part#         | Description                 | Drawing# | Weight                 | Dimensions                 | Current Draw | Color | Lens | Approvals |
|---------|---------------|-----------------------------|----------|------------------------|----------------------------|--------------|-------|------|-----------|
| 7098501 | 01-0770985-01 | Interior 12 LED light strip | 70985    | 0.18 lbs.<br>(81.64gm) | 2.45" (62mm) x 0.5" (13mm) | 0.06 amps    | White | -    | -         |



## 71140 SERIES

Model 71140 is an LED alternative for to Grimes 34170 (Dome Light) used on Bombardier Global Express, Challenger 600, 601, 604; Gulfstream GIII, GIV; Learjet 54, 56, 60 and Sikorsky S76. Primary operating voltage is 28V, an emergency circuit at 5V is provided for long-life lighting on an alternate power source. Spun aluminum assembly 5.5 inches outer diameter, 3.83 inch recessed inner diameter with a 1 inch recessed depth. Item ships with three flying leads, a ground, a 5V line and a 28V line.

| Model   | Part#         | Description             | Drawing# | Weight             | Dimensions                   | Current Draw                 | Color          | Lens                         | Approvals |
|---------|---------------|-------------------------|----------|--------------------|------------------------------|------------------------------|----------------|------------------------------|-----------|
| 7114000 | 01-0771140-00 | LED interior dome light | 71140    | 0.35 Lbs<br>(159m) | Exposed Height:<br>0.45 (mm) | 125mA @ 28 VDC<br>250mA @ 5V | Aviation White | Translucent<br>Polycarbonate | -         |



## A300 SERIES

Interior map light assemblies designed for indirect cockpit illumination. Slide switch permits direct chart reading. Available with a Red or instrument White lens. Uses a 14 VDC, #1414 lamp or a 28 VDC, #1495 lamp.

| Model   | Part#         | Description              | Drawing# | Weight              | Dimensions                                    | Current Draw | Color | Lens          | Approvals |
|---------|---------------|--------------------------|----------|---------------------|---|--------------|-------|---------------|-----------|
| A300W14 | 01-0770104-30 | Instrument White, 14 VDC | 70104    | 0.16 lbs.<br>(73gm) | Depth Behind Mounting<br>Flange: 1.06" (27mm) | 6 Watts      | -     | Polycarbonate | -         |
| A300R14 | 01-0770104-50 | Red, 14 VDC              |          |                     |   |              |       |               |           |
| A300R28 | 01-0770104-51 | Red, 14 VDC              |          |                     |   |              |       |               |           |
| A300W28 | 01-0770104-31 | Instrument White, 28 VDC |          |                     |   |              |       |               |           |



## 70339 SERIES

Interior dome/compartament light assemblies designed for recessed overhead or wall mounting with minimal depth. An On/Off switch is optional. Uses a 14 VDC, #1414 lamp or a 28 VDC, #1495 lamp.

| Model   | Part#         | Description        | Drawing# | Weight              | Dimensions                                    | Current Draw                            | Color | Lens          | Approvals |
|---------|---------------|--------------------|----------|---------------------|---|---|-------|---------------|-----------|
| 7033901 | 01-0770339-01 | 14 VDC             | 70339    | 0.16 lbs.<br>(73gm) | Depth Behind Mounting<br>Flange: 1.06" (27mm) | 0.46 amps @ 14 VDC<br>0.3 amps @ 28 VDC | -     | Polycarbonate | -         |
| 7033903 | 01-0770339-03 | 14 VDC with switch |          |                     |   |   |       |               |           |
| 7033902 | 01-0770339-02 | 28 VDC             |          |                     |   |   |       |               |           |
| 7033904 | 01-070339-04  | 28 VDC with switch |          |                     |   |   |       |               |           |

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# INTERIOR LIGHTING

## 90029 SERIES

All-inclusive Anti-Collision/position/recognition light assembly. Used on Beech Barons, King Airs and Super King Airs. Replaces 30-1329-( ) series.



| Model  | Part#         | Description                            | Drawing# | Weight               | Dimensions                                    | Current Draw   | Color | Lens | Approvals |
|--------|---------------|--|----------|----------------------|---|--|-------|------|-----------|
| 900291 | 01-0790029-01 | Position Red                           | 90029    | 2.5 lbs.<br>(1135gm) | 6.4 (163mm) x<br>10.2 (259mm) x<br>3.1 (79mm) | Position light - 1.0 amps @ 28 VDC<br>Recognition light - 1.25 amps @ 28 VDC<br>Power supply - 1.5 amps @ 28 VDC | -     | -    | FAA/PMA   |
| 900292 | 01-0790029-02 | Position Green                         |          |                      |   |  |       |      | FAA/PMA   |
| 900293 | 01-0790029-03 | Position Red, with recognition light   |          |                      |   |  |       |      | FAA/PMA   |
| 900294 | 01-0790029-04 | Position Green, with recognition light |          |                      |   |  |       |      | FAA/PMA   |

## 90777 SERIES

LED Form / Fit / Functional replacement to the 90029 series. Contact factory for more details.



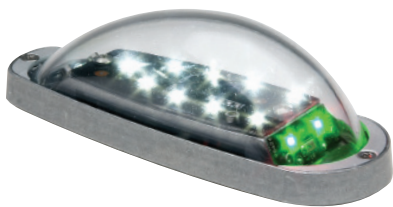
| Model   | Part#         | Description   | Drawing# | Weight          | Cross Ref     | Current Draw   | Approvals              |
|---------|---------------|---|----------|-----------------|---------------|--|------------------------|
| 90777L0 | 01-0790777-L0 | Red Position / Anti-collision assembly with recognition light 28 VDC      | 90777    | 1.9 lbs (862gm) | 01-0790029-01 | Position light<br>- 0.25 amps<br>Anti-collision light<br>- 0.47 amps<br>Recognition light<br>- 0.45 amps | TSO-C30C /<br>TSO-C96A |
| 90777L1 | 01-0790777-L1 | Red Position / Anti-collision light without recognition light 28 VDC      |          | 1.5 lbs (680gm) | 01-0790029-02 |  |                        |
| 90777R0 | 01-0790777-R0 | Green Position / Anti-collision assembly with recognition light 28 VDC    |          | 1.9 lbs (862gm) | 01-0790029-03 |  |                        |
| 90777R1 | 01-0790777-R1 | Green Position / Anti-collision assembly without recognition light 28 VDC |          | 1.5 lbs (680gm) | 01-0790029-04 |  |                        |

### BEECH MODELS FOR 90777 LIGHT

| Model  | Description                                | Model  | Description                    |
|--------|--|--------|--------------------------------|
| C90    | Serials LJ-1063 thru LJ-1846               | B200GT | Serials BY-001 (w/o Winglets)  |
| C90GT  | Serials LJ-1847 and After                  | 1900   | Serials UA-all, UB-all, UC-all |
| F90    | All Serial Numbers                         | 300    | Serials FA-001 and After       |
| B200*  | Serials BB-1133, BB1141, BB-1145 and After | E90    | Serials LW200 and After        |
| B200C* | Serial BL-69 thru BL-72, BL-124 and After  |        |                                |



# EXPERIMENTAL



## MICROBURST™ III

Forward & rear facing wingtip navigation light

| Model | Part#          | Description  | Drawing# | Weight           | Dimensions   | Current Draw       | Color      | Lens          | Approvals |
|-------|----------------|--|----------|------------------|--|--------------------|------------|---------------|-----------|
| MB3R  | 01-0771507-020 | Forward facing wingtip nav. with CometFlash® 180° LED-Strobe and rear facing white nav | 71507    | 0.21 lbs. (95gm) | 1.5" (38mm) exp. H x 1.6" (41mm) W x 4.6 (116mm) L | 0.45 amps @ 14 VDC | Red, Green | Polycarbonate | -         |
| MB3G  | 01-0771507-010 |  |          |                  |  |                    |            |               |           |



## MICROBURST II

Forward facing wingtip navigation light

| Model | Part#          | Description   | Drawing# | Weight           | Dimensions   | Current Draw       | Color      | Lens          | Approvals |
|-------|----------------|---|----------|------------------|--|--------------------|------------|---------------|-----------|
| MB2R  | 01-0771519-020 | Forward facing wingtip nav. with CometFlash 180° LED-Strobe | 71519    | 0.20 lbs. (90gm) | 1.5" (38mm) exp. H x 1.6" (41mm) W x 4.6 (116mm) L | 0.40 amps @ 14 VDC | Red, Green | Polycarbonate | -         |
| MB2G  | 01-0771519-010 |   |          |                  |  |                    |            |               |           |



## MICROBURST I

Navigation taillight

| Model | Part#          | Description   | Drawing# | Weight           | Dimensions                      | Current Draw       | Color | Lens          | Approvals |
|-------|----------------|---|----------|------------------|---------------------------------|--------------------|-------|---------------|-----------|
| MB1   | 01-0771490-000 | Nav taillight with CometFlash 180° LED-Strobe. Utilizes same mounting as all Whelen Legacy assemblies | 71490    | 0.15 lbs. (68gm) | 1.7" (43mm) H x 1.5 (38mm) Dia. | 0.45 amps @ 14 VDC | White | Polycarbonate | -         |



## VERTEX™ SERIES

LED Anti-Collision Light Assembly

| Model   | Part#         | Description          | Drawing# | Weight | Dimensions                       | Current Draw | Color      | Lens          | Approvals |
|---------|---------------|----------------------|----------|--------|----------------------------------|--------------|------------|---------------|-----------|
| VTX609R | 01-066B715-50 | Red Anti-collision   | 6B715    | -      | 1" (25mm) H x 1-5/8" (41mm) Dia. | 0.3 amps     | Red, White | Polycarbonate | -         |
| VTX609C | 01-066B715-30 | Clear Anti-collision |          |        |                                  |              |            |               |           |

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## MODEL 7054400

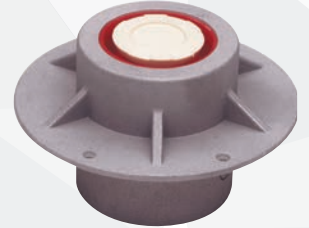
Ground crew call warning horn designed for Boeing. It produces 105db (+13db, -3db) at a frequency of 25-20,000 Hz.



| Model   | Part#         | Description   | Drawing# | Weight            | Dimensions                       | Current Draw            | Approvals |
|---------|---------------|---|----------|-------------------|----------------------------------|-------------------------|-----------|
| 7054400 | 01-0770544-00 | Ground crew call warning horn, designed for Boeing # 10-62239-1 | 70544    | 0.65 lbs. (295gm) | 2.28" (58mm) x 3.56" (90mm) Dia. | 55ma @ 28 VDC (typical) | FAA/PMA   |
| 7054401 | 01-0770544-01 | Ground crew call warning horn, designed for Embreair            |          |                   |                                  |                         |           |

## MODEL 7066600

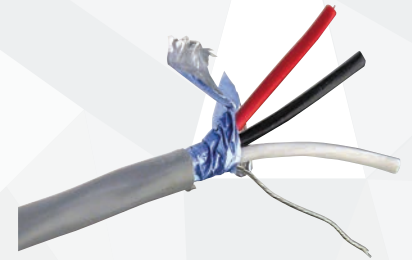
Auxiliary power unit, fire warning horn designed for Boeing. It produces 106db (+10db, -3db) at a frequency of 25-20,000 Hz.



| Model   | Part#         | Boeing#    | Description               | Drawing# | Weight            | Dimensions                    | Current Draw            | Approvals |
|---------|---------------|------------|---------------------------|----------|-------------------|-------------------------------|-------------------------|-----------|
| 7066600 | 01-0770666-00 | 10-62239-2 | APU horn assembly, Boeing | 70666    | 1.25 lbs. (567gm) | 3" (58mm) x 5.1h (130mm) Dia. | 55ma @ 28 VDC (typical) | FAA/PMA   |

## INSTALLATION CABLE KITS

All cable kits include all required connectors for hooking up the strobe light to the power supply only, warning placards and the Installation Service Manual. All cable is 16 gauge 3/c shielded. The cable diameter is .275 (7mm). The weight is .050 lbs. per linear foot (Kits do not include switches or breakers).



| Model  | Part#         | Description                              | Approvals |
|--------|---------------|--|-----------|
| HS5    | 01-0750215-00 | 5' Cable kit                             |           |
| HT10   | 01-0750218-00 | 10' Cable kit                            |           |
| HS30   | 01-0750214-00 | 30' Cable kit                            |           |
| HD60   | 01-0750206-00 | 60' Cable kit NSN                        |           |
| HDT390 | 01-0750205-00 | 90' Cable kit                            |           |
| HT     | 01-0750216-00 | Install kit only. No cable or connectors |           |

## REPLACEMENT CONNECTORS

Replacement connector kits and assemblies for cables.

| Model | Part#         | Description                                       | Approvals |
|-------|---------------|---|-----------|
| A441  | 01-0430011-00 | 3 Position male connector with pins kit           |           |
| A442  | 01-0410823-00 | 3 Position female connector with sockets kit      |           |
| A444  | 02-0230007-00 | 2 Position male connector with pins assembly      |           |
| A446  | 02-0230085-00 | 2 Position female connector with sockets assembly |           |
| A447  | 01-0417808-00 | 4 Position male connector with pins               |           |
| A448  | 01-0417808-01 | 4 Position female connector with sockets          |           |



## CRIMP TOOL

Pin and socket crimping tool.

| Model   | Part#         | Description                           | Approvals |
|---------|---------------|---------------------------------------|-----------|
| CRIMPAV | 01-0515361-00 | Pin/socket crimping tool, MILBAR #25E | -         |



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# RAYTHEON/BEECH AIRCRAFT

Whelen does not have specific kits set up (Contact Authorized Whelen Distributor). The following are LED system recommendations. The basic model/part numbers are given. In some cases the aircraft voltage and mounting location of the light are needed to specify the exact model/part number.



## EARLY MODEL TWIN ENGINE THROUGH 1969

The slanted wingtip requires custom fabricated brackets for mounting the strobe lights.

The following is recommended:

| Quantity   | Model | Part #        | Description                   |
|--|-------|---------------|-------------------------------|
| 1 each   | HDACF | 01-0770028-05 | Power supply                  |
| 2 each   | A625  | 01-0770058-03 | Wingtip strobe light assembly |
| 1 each   | HD60  | 01-0750206-00 | Installation package          |
| REF: All Barons (95-55, A55, B55, C55, D55) & All Travel Airs 1957 thru 1969 |       |               |                               |

## EARLY MODEL SINGLE ENGINE THROUGH 1966

Excluding any modified wingtip, use position lights at the wingtip extremity.

To convert to Whelen LEDs, the following is recommended:

| Quantity   | Model   | Part #        | Description                      |
|--|---------|---------------|----------------------------------|
| 1 each   | OR6501G | 01-0790725-01 | LED Wingtip light, 14 VDC, Green |
| 1 each   | OR6501R | 01-0790725-02 | LED Wingtip light, 14 VDC, Red   |
| <b>Note:</b> 7111001, 7111002, HDACF & HD60 are needed for Legacy option |         |               |                                  |

## SINGLE ENGINE 1967 THROUGH 1973

Use position lights installed under Clear fairings at the wingtips most forward position. Specify 14 or 28 VDC. To convert to Whelen strobes the following is recommended:

| Quantity       | Model                | Part #                         | Description  |
|----------------|----------------------|--------------------------------|--|
| 1 each         | HDACF                | 01-0770028-05                  | Power supply   |
| 2 each         | A625                 | 01-0770058-03                  | Wingtip strobe light   |
| 1 each as req. | A500AV14 or A500AV28 | 01-0770024-00<br>01-0770024-01 | Tail strobe/position light (lens may be removed to reduce heat build-up) |
| 1 each         | HDT390               | 01-0750205-00                  | Installation package   |

## SINGLE ENGINE 1974 AND LATER

Use a commonality wingtip, that enlarged the Clear fairing by approximately six inches. Specify 14 or 28 VDC. To convert to Whelen LEDs, the following is recommended:

| Quantity  | Model    | Part #        | Description  |
|---|----------|---------------|--|
| 1 each  | OR6501GE | 01-0790701-01 | Embedded position/anti-collision light Green, 14 VDC |
| 1 each  | OR6501RE | 01-0790701-02 | Embedded position/anti-collision light Red, 14 VDC   |
| 1 each  | OR5001V  | 01-0771774V01 | Tail PTA light, 14 VDC                               |
| <b>Note:</b> For Legacy options contact Whelen factory direct |          |               |  |

| Quantity | Model    | Part #        | Description  |
|----------|----------|---------------|--|
| 1 each   | OR6502GE | 01-0790701-11 | Embedded position/anti-collision light Green, 28 VDC |
| 1 each   | OR6502RE | 01-0790701-12 | Embedded position/anti-collision light Red, 28 VDC   |
| 1 each   | OR5002V  | 01-0771774V02 | Tail PTA light, 28 VDC                               |

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## BARON RUDDER MOUNT OSCILLATION BEACON REPLACEMENT

The mechanical oscillating beacon first appeared in 1970 on the then new E55, until 1982. All model 58's used it from 1970 thru 2000.

To convert the existing beacon to an LED flashing beacon:

| Quantity  | Model   | Part #        | Description                          |
|---|---------|---------------|--------------------------------------|
| 1 as req.   | 9008814 | 01-0790088-14 | Upper mount, 5-Hole, 2.25 lbs.       |
| To convert the existing beacon to a Quartz Halogen flashing beacon: |         |               |                                      |
| 1 as req.   | 9004457 | 01-0790044-57 | Upper mount, 5-Hole, 2.25 lbs. (Red) |



## DUKE OSCILLATION BEACON REPLACEMENT -

To convert the existing beacon to an LED flashing beacon:

| Quantity   | Model   | Part #        | Description         |
|--|---------|---------------|---------------------|
| 1 as req.*   | 9008812 | 01-0790088-12 | Upper mount, 5-Hole |
| 1 as req.*   | 9008818 | 01-0790088-18 | Upper mount, 8-Hole |
| *Note - Check existing mounting hole pattern before ordering (5 or 8-Hole) |         |               |                     |



## CONVERTING BEACON TO A QUARTZ HALOGEN FLASHING BEACON

To convert the existing beacon to a Quartz Halogen flashing beacon:

| Quantity   | Model   | Part #        | Description         |
|--|---------|---------------|---------------------|
| 1 as req.*   | 9004401 | 01-0790044-01 | Upper mount, 5-Hole |
| 1 as req.*   | 9004417 | 01-0790044-17 | Upper mount, 8-Hole |
| *Note - Check existing mounting hole pattern before ordering (5 or 8-Hole) |         |               |                     |



## ROTATING BEACON REPLACEMENT

The round mechanical rotating beacon was used on the vertical fin of all Barons from 1961 thru 1969. Models using this light are 95-55 (1961), A55 (1962-63), B55 (1964-82), C55 (1966-1967), D55 (1968-1969). Note: the B55 Baron continued to use this beacon until production stopped in 1982.



## CONVERTING BEACON TO A SELF-CONTAINED LED FLASHING BEACON

To convert the existing beacon to a Self-Contained LED Flashing Beacon:

| Quantity  | Model   | Part #        | Description                                       |
|-----------|---------|---------------|---|
| 1 as req. | 7108055 | 01-0771080-55 | 14 VDC, LED Red, 3.75" adapter, flying leads      |
| 1 as req. | 7108005 | 01-0771080-05 | 28 VDC, LED Red, 3.75" adapter                    |
| 1 as req. | 9052055 | 01-0790520-55 | 14 VDC, Red/White, 3.75" base                     |
| 1 as req. | 9052005 | 01-0790520-05 | 28 VDC, Red/White, 3.75" base                     |
| 1 as req. | A440    | 19-130074-009 | Mounting adapter (required for fuselage mounting) |



## CONVERTING BEACON TO A SELF-CONTAINED STROBE BEACON

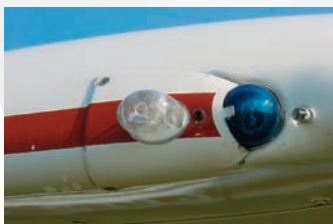
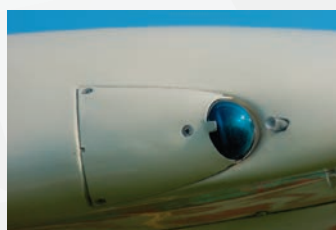
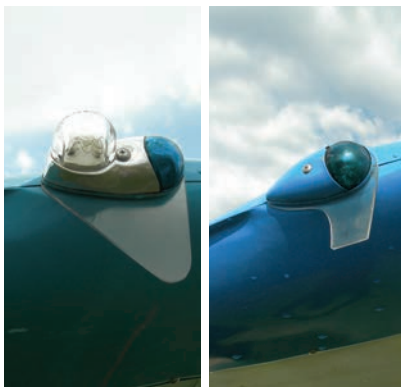
To convert the existing beacon to a Self-Contained Strobe Beacon:

| Quantity  | Model  | Part #        | Description                                       |
|-----------|--------|---------------|---|
| 1 as req. | HRCFAR | 01-0770029-29 | Standard assembly, Red lens                       |
| 1 as req. | HRCFAW | 01-0770029-30 | Standard assembly, Clear lens                     |
| 1 as req. | HRCFAS | 01-0770029-31 | Standard assembly, split Red/Clear lens           |
| 1 as req. | A440   | 19-130074-009 | Mounting adapter (required for fuselage mounting) |



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# CESSNA AIRCRAFT



## WINGTIP STROBES FOR EARLY MODEL SINGLE ENGINE THROUGH 1961

Excluding any modified wingtip, use position lights at the wingtip extremity. To convert to Whelen LEDs, the following is recommended:

| Quantity   | Model   | Part #        | Description               |
|--|---------|---------------|---------------------------|
| 1 each   | OR6501R | 01-0790725-02 | Wingtip PTA Red, 12 VDC   |
| 1 each   | OR6501G | 01-0790725-02 | Wingtip PTA Green, 12 VDC |
| <b>Note:</b> 7111001, 7111002, HDACF & HD60 are needed for Legacy option |         |               |                           |

## WINGTIP STROBES FOR SINGLE ENGINE 1962 THROUGH 1969

Requires modification to the factory wingtip to accommodate the light assemblies. To convert to Whelen LEDs, the following is recommended:

| Quantity   | Model   | Part #        | Description               |
|--|---------|---------------|---------------------------|
| 1 each   | OR6501R | 01-0790725-02 | Wingtip PTA Red, 12 VDC   |
| 1 each   | OR6501G | 01-0790725-02 | Wingtip PTA Green, 12 VDC |
| <b>Note:</b> 7111001, 7111002, HDACF & HD60 are needed for Legacy option |         |               |                           |

## WINGTIP STROBES FOR SINGLE ENGINE 1970 AND 1971

Excluding any modified wingtip, also use position lights at the wingtip extremity, however, the retainers are too short to accommodate a custom installation. The Model A625 strobe lights are mounted aft of the position light lens retainers. To convert to Whelen strobes, the following is recommended:

| Quantity | Model | Part #        | Description                   |
|----------|-------|---------------|-------------------------------|
| 1 each   | HDACF | 01-0770028-05 | Power supply                  |
| 2 each   | A625  | 01-0770058-03 | Wingtip strobe light assembly |
| 1 each   | HD60  | 01-0750206-00 | Installation package          |

## WINGTIP STROBES FOR SINGLE ENGINE 1972 THROUGH 1986

Excluding any modified wingtip, spare wires were installed at the factory from a switch position on the instrument panel to the farthest rib in each wingtip. This allows mounting of the power supplies adjacent to the strobe light, which reduces installation time significantly. Wingtip strobes were also an option in the early 70's. We estimate that 40-50% had factory installed systems.

### Replacement Parts for Aircraft with Factory Installed Systems:

| Quantity | Model    | Part #        | Description                 |
|----------|----------|---------------|-----------------------------|
| 2 each   | A490TCCF | 01-0770006-09 | Wingtip strobe power supply |
| 2 each   | A427     | 02-0250274-00 | Wingtip strobe tube         |
| 2 each   | A428     | 68-4290001-30 | Wingtip strobe lens         |

### LED upgrade which requires Wilco cover plates. Contact Whelen for more info:

| Quantity   | Model   | Part #        | Description                      |
|--|---------|---------------|----------------------------------|
| 1 each   | OR6501G | 01-0790725-01 | LED Wingtip light, 14 VDC, Green |
| 1 each   | OR6501R | 01-0790725-02 | LED Wingtip light, 14 VDC, Red   |
| <b>Note:</b> A small percentage of 1972 and later aircraft used the 1962-1969 wingtip.<br>- WIICO update cover plate to fit OR650 Series assemblies. Contact Whelen for or more info |         |               |                                  |

| Quantity   | Model   | Part #        | Description                    |
|--|---------|---------------|--------------------------------|
| 1 each   | OR6502G | 01-0790725-11 | LED Wingtip light, 28 V, Green |
| 1 each   | OR6502R | 01-0790725-12 | LED Wingtip light, 28 V, Red   |
| - WIICO update cover plate to fit OR650 Series assemblies. Contact Whelen for or more info |         |               |                                |

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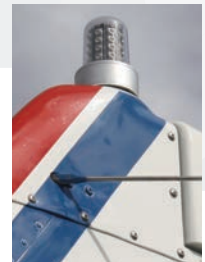
## ROTATING BEACON REPLACEMENT

The round mechanical rotating beacon was used on early model single engine Cessnas from the late 50's through 1966. Twin Engine Cessnas started using the round mechanical rotating beacon in the 50's. Later Model 400 Series used a teardrop beacon. Check existing beacon configuration before ordering.

To convert the existing beacon to a Self-Contained LED Flashing Beacon:

| Quantity  | Model   | Part #        | Description  |
|-----------|---------|---------------|--|
| 1 as req. | 9052055 | 01-0790520-55 | LED Red/White, 14 VDC (3.75" adapt., flying leads) |
| 1 as req. | 9052005 | 01-0790520-05 | LED Red/White, 28 VDC, 3.75" adapter               |
| 1 as req. | 7108055 | 01-0771080-55 | LED Red, 14 VDC, 3.75" adapter, Flying Leads       |
| 1 as req. | 7108005 | 01-0771080-05 | LED Red, 28 VDC, 3.75" adapter                     |
| 1 as req. | A440    | 19-130074-009 | Mounting adapter (required for fuselage mounting)  |

**Note:** For Legacy options contact Whelen factory direct



## QUARTZ HALOGEN FLASHER REPLACEMENT FOR SINGLE ENGINE VERTICAL FIN, 1967 & LATER

In 1967, Cessna changed from a rotating beacon to a quartz halogen Flasher beacon. This has a 150 watt, 28 VDC quartz halogen lamp, or a 125 watt, 14 VDC quartz halogen lamp, operated from a solid-state electronic module.

To convert to a Whelen strobe, the following is recommended:

| Quantity  | Model   | Part #        | Description                                       |
|-----------|---------|---------------|---|
| 1 as req. | 9052051 | 01-0790520-51 | LED Red/White, 14 VDC (2.6" flying leads)         |
| 1 as req. | 9052001 | 01-0790520-01 | LED Red/White, 28 VDC, (2.6" flying leads)        |
| 1 as req. | 7108051 | 01-0771080-51 | LED Red, 14 VDC, 2.6" mount                       |
| 1 as req. | 7108001 | 01-0771080-01 | LED Red, 28 VDC, 2.6" mount                       |
| 1 as req. | A440    | 19-130074-009 | Mounting adapter (required for fuselage mounting) |

**Note:** For Legacy options contact Whelen factory direct



## CESSNA 300A, B, C & D TWIN ENGINES

The system for these airplanes requires fabricated brackets for affixing the power supplies and for attaching the strobe to a new Position light bracket.

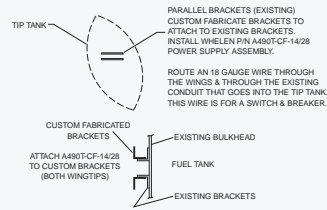
To convert to Whelen strobes, the following is recommended:

| Quantity | Model   | Part #        | Description                |
|----------|---------|---------------|----------------------------|
| 3 each   | A490TCF | 01-0770006-08 | Power supply               |
| 2 each   | A625    | 01-0770058-03 | Wingtip strobe light       |
| 1 each   | A500AV  | 01-0770024-01 | Tail strobe/Position light |
| 1 each   | HT      | 01-0750216-00 | Installation package       |

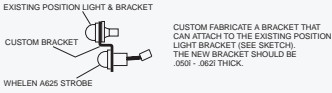


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## INSTALLATION OF A WHELEN TWO OR THREE LIGHT SYSTEM ON A CESSNA 300-400 SERIES WITH TIP TANKS



### RECOMMENDATION FOR THE WING-TIP STROBE LIGHT



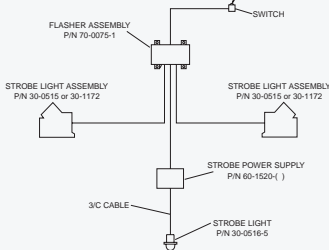
### THIRD LIGHT INSTALLATION IN THE TAIL CONE

IF A THIRD LIGHT IS REQUIRED, INSTALL THE WHELEN A490T-CF-1428 POWER SUPPLY, ADJACENT TO THE WHELEN COMBINATION STROBE P/N LIGHT ASSEMBLY, P/N A500AV-28

TO REPLACE THE ROTATING BEACON ON THE VERTICAL FIN, THE RECOMMENDED LIGHT ASSEMBLY IS A WHELEN HRCFV-RW-1428



## REPLACEMENT OF GRIMES THREE LIGHT STROBE SYSTEM INSTALLED ON CESSNA 300-400 SERIES WITH TIP TANKS



| EXISTING GRIMES PART NO. | WHELEN REPLACEMENT PART NO. |
|--------------------------|-----------------------------|
| 30-0515 or 30-1172       | A490T-CF-1428               |
| 30-0516-5                | A500AV-28                   |

REPLACE THE GRIMES PART NUMBERS WITH THE WHELEN PART NUMBERS AS LISTED ABOVE. REMOVE PIN 70-0075-1 AND EXTEND THE WIRES TO THE EXISTING SWITCH.



## THE REMAINING CESSNA 300-400 SERIES TWIN ENGINES

The system for these airplanes requires the same hardware as above, however, some had factory installed Grimes assemblies from approximately 1969 and later. To replace the existing system, all parts must be replaced and wiring must be changed. New fabricated brackets are required.

## CESSNA CITATION SERIES

Whelen has an STC compliant system to convert factory installed Grimes wingtip strobes. The initial STC #ST22BO was for Citation 550, S550 & 560, Serial #128 thru 256. The following is recommended:

**System P/N – 01-0716164-03, (STC #ST22BO) includes:**

| Quantity                             | Model   | Part #        | Description           |
|--------------------------------------|---------|---------------|-----------------------|
| 2 each                               | 9010104 | 01-0790101-04 | Power supply          |
| 1 each                               | 9015905 | 01-0790159-05 | Strobe light assembly |
| 1 each                               | 9015906 | 01-0790159-06 | Strobe light assembly |
| Brackets & hardware for Installation |         |               |                       |

The second system, STC #ST0010BO, covers Serial #257 & later, and any aircraft that installed Cessna Service Bulletin #SB560-33-08 from Serial #0001 thru #0256.

**System P/N – 01-0716164-05, (STC #ST0010BO) includes:**

| Quantity | Model   | Part #        | Description           |
|----------|---------|---------------|-----------------------|
| 2 each   | 9010104 | 01-0790101-04 | Power supply          |
| 1 each   | 9020603 | 01-0790206-03 | Strobe light assembly |
| 1 each   | 9020604 | 01-0790206-04 | Strobe light assembly |

Brackets & hardware for Installation

## CESSNA CITATION SERIES

Whelen has an STC compliant system to convert factory installed Grimes wingtip strobes. The initial STC #ST22BO was for Citation 550, S550 & 560, Serial #128 thru 256.

The following is recommended:

### Oscillating Beacon Replacement -

To convert from the existing mechanical oscillating beacon used on some 400 Series as well as the entire family of Citations (excluding CJs).

| Quantity   | Model   | Part #        | Description                                   |
|--|---------|---------------|---|
| 1 as req.*   | 9008811 | 01-0790088-11 | Lower mount, 5-Hole                           |
| 1 as req.*   | 9008812 | 01-0790088-12 | Upper mount, 5-Hole                           |
| 1 as req.*   | 9008813 | 01-0790088-13 | Upper mount, 5-Hole, 2.25 lbs. (rudder mount) |
| *Note: Check existing mounting configuration before ordering. To convert the existing beacon to an <b>LED</b> flashing beacon: |         |               |   |

To convert the existing beacon to a **Quartz Halogen** flashing beacon:

| Quantity   | Model   | Part #        | Description  |
|--|---------|---------------|--|
| 1 as req.*   | 9004401 | 01-0790044-01 | Upper mount, 5-Hole (Red)                          |
| 1 as req.*   | 9004433 | 01-0790044-33 | Upper mount, Red, 5-Hole, 2.25 lbs. (rudder mount) |
| 1 as req.*   | 9004437 | 01-0790044-37 | Upper mount, Red, 5-Hole, (Citation X)             |
| *Note: Check existing mounting configuration before ordering. To convert the existing beacon to an <b>LED</b> flashing beacon: |         |               |  |

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## EARLY MODEL FLAT WING WITH EXTERIOR POSITION LIGHT MOUNTING

To convert to Whelen strobes, the following is recommended:

| Quantity  | Model   | Part #        | Description               |
|---|---------|---------------|---------------------------|
| 1 each  | OR6501R | 01-0790725-02 | Wingtip PTA Red, 12 VDC   |
| 1 each  | OR6501G | 01-0790725-02 | Wingtip PTA Green, 12 VDC |
| <b>Note:</b> 7111001, 7111002, HDACF & HD60 needed for Legacy options |         |               |                           |



## ENCLOSED WINGTIP (NEW INSTALLATION)

To convert to Whelen strobes, the following is recommended:

| Quantity  | Model    | Part #        | Description                      |
|---|----------|---------------|----------------------------------|
| 1 each  | OR6501GE | 01-0790701-01 | LED Wingtip light, 14 VDC, Green |
| 1 each  | OR6501RE | 01-0790701-02 | LED Wingtip light, 14 VDC, Red   |
| 1 each  | OR5001V  | 01-0771774V01 | Tail PTA light White             |
| <b>Note:</b> 7111001, 7111002, A500AV, HDACF & HDT390 needed for Legacy options |          |               |                                  |



| Quantity  | Model    | Part #        | Description                     |
|---|----------|---------------|---------------------------------|
| 1 each  | OR6502GE | 01-0790701-11 | LED Wingtip light, 28VDC, Green |
| 1 each  | OR6502RE | 01-0790701-12 | LED Wingtip light, 28 VDC, Red  |
| 1 each  | OR5002V  | 01-0771774V02 | Tail PTA light White            |
| <b>Note:</b> 7111003, 7111004, A500AV, HDACF & HDT390 needed for Legacy options |          |               |                                 |



## ENCLOSED WINGTIP (HOSKINS/SDI REPLACEMENT)

Slight modification required to convert to Whelen strobes, the following is recommended:

| Quantity       | Model                | Part #                         | Description  |
|----------------|----------------------|--------------------------------|--|
| 3 each         | A490TCF              | 01-0770006-08                  | Power supply   |
| 2 each         | A625                 | 01-0770058-03                  | Wingtip strobe light assembly  |
| 1              | HT                   | 01-0750216-00                  | Installation package   |
| 1 each as req. | A500AV14 or A500AV28 | 01-0770024-00<br>01-0770024-01 | Tail strobe/Position light assembly, 14 VDC<br>Tail strobe/Position light assembly, 28 VDC |



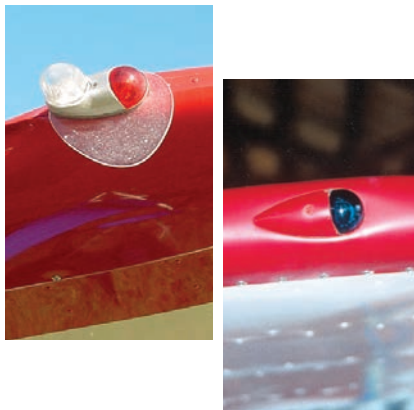
## ROTATING BEACON REPLACEMENT

To convert the existing rotating beacon to a Whelen LED or strobe, the following is recommended:

| Quantity  | Model   | Part #        | Description   |
|---|---------|---------------|---|
| <b>Note Option 1:</b> Model 70029 Self-Contained LED Beacon can replace Model A470AR for a <b>strobe</b> solution |         |               |   |
| 1 as req.   | 9052055 | 01-0790520-55 | LED Red/White, 14 VDC (3.75" adapter, flying leads)   |
| 1 as req.   | 9052005 | 01-0790520-05 | LED Red/White, 28 VDC, 3.75" adapter                  |
| 1 as req.   | 7108055 | 01-0771080-55 | LED Red, 14 VDC, 3.75" adapter, Flying Leads          |
| 1 as req.   | 7108005 | 01-0771080-05 | LED Red, 28 VDC, 3.75" adapter                        |
| 1 as req.   | A440    | 19-130074-009 | Mounting adapter (required for new fuselage mounting) |
| <b>Note:</b> HRCFA series can be utilized for Legacy options  |         |               |   |



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## SINGLE ENGINES & PIPER AZTEC

The same wingtip strobe system can be used on most Piper aircraft models. To convert to strobes, the recommendation is:

| Quantity  | Model   | Part #        | Description                      |
|---|---------|---------------|----------------------------------|
| 1 each  | OR6501G | 01-0790725-01 | LED Wingtip light, 14 VDC, Green |
| 1 each  | OR6501R | 01-0790725-02 | LED Wingtip light, 14 VDC, Red   |
| <b>Note:</b> 7111001, 7111002, HDACF & HD60 needed for Legacy options |         |               |                                  |

## PIPER NAVAJO

System is as follows:

| Quantity  | Model   | Part #        | Description                      |
|---|---------|---------------|----------------------------------|
| 1 each  | OR6502G | 01-0790725-11 | LED Wingtip light, 14 VDC, Green |
| 1 each  | OR6502R | 01-0790725-12 | LED Wingtip light, 14 VDC, Red   |
| <b>Note:</b> 7111003, 7111004, A500AH28, HDACF & HDT390 needed for Legacy options |         |               |                                  |



## PIPER CHEYENNE I, II, & IIXL

Factory equipped with Whelen strobes.



## ROTATING BEACON REPLACEMENT

To convert the existing beacon to a Self-Contained **LED** Flashing Beacon:

| Quantity  | Model   | Part #        | Description   |
|---|---------|---------------|---|
| 1 as req.   | 9052055 | 01-0790520-55 | LED Red/White, 14 VDC (3.75" adapt., flying leads)    |
| 1 as req.   | 9052005 | 01-0790520-05 | LED Red/White, 28 VDC, 3.75" adapter                  |
| 1 as req.   | 7108055 | 01-0771080-55 | LED Red, 14 VDC, 3.75" adapter, Flying Leads          |
| 1 as req.   | 7108005 | 01-0771080-05 | LED Red, 28 VDC, 3.75" adapter                        |
| 1 as req.   | A440    | 19-130074-009 | Mounting adapter (required for new fuselage mounting) |
| <b>Note:</b> HCRF Series can be utilized for Legacy options |         |               |   |



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## NIGHT FLIGHT CERTIFIED FOR AIRCRAFT WITH STANDARD WINGTIPS

The most widely used system on the market, this provides all of the components for anti-collision and position lights without the need for a taillight. The power supply is mounted in the fuselage and shielded cable is run to the strobe lights. The following is recommended:

| Quantity | Model   | Part #        | Description               |
|----------|---------|---------------|---------------------------|
| 1 each   | OR6001G | 01-0771733-01 | Wingtip PTA Green, 12 VDC |
| 1 each   | OR6001R | 01-0771733-02 | Wingtip PTA Red, 12 VDC   |



## FOR AIRCRAFT WITH ENCLOSED WINGTIP FAIRINGS

If the position and strobe lights are mounted under a Clear fairing, a third tail strobe is required. The following is recommended:

| Quantity   | Model    | Part #        | Description                      |
|--|----------|---------------|----------------------------------|
| 1 each   | OR6501GE | 01-0790701-01 | LED Wingtip light, 14 VDC, Green |
| 1 each   | OR6501RE | 01-0790701-02 | LED Wingtip light, 14 VDC, Red   |
| 1 each   | OR5001V  | 01-0771774V01 | Tail PTA light White             |
| <b>Note:</b> 7111001, 7111002, HDACF & HD60 can be utilized for Legacy options |          |               |                                  |

## DAYTIME VFR

### FOR AIRCRAFT WITH ENCLOSED WINGTIP FAIRINGS AND WINGTIP MOUNTED POWER SUPPLIES

If position and strobe lights are mounted under a Clear fairing, the need for a third tail strobe is required. The following is recommended:

| Quantity | Model | Part #        | Description                             |
|----------|-------|---------------|---|
| 2 each   | MB1WT | 01-0771490-00 | Nav taillight                           |
| 1 each   | MB2G  | 01-0771519-01 | Forward facing wingtip nav light, Green |
| 1 each   | MB2R  | 01-0771519-02 | Forward facing wingtip nav light, Red   |



MB2R



MB3R  
with rear navigation light

### EXPERIMENTAL AIRCRAFT WITH LIGHTS MOUNTED ON EXTERIOR OF WINGTIP

| Quantity | Model | Part #        | Description   |
|----------|-------|---------------|---|
| 1 each   | MB3G  | 01-0771507-01 | Forward facing wingtip nav light, Green, with rear facing White nav light |
| 3 each   | MB3R  | 01-0771507-02 | Forward facing wingtip nav light, Red, with rear facing White nav light   |



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# CROSS REFERENCE CHARTS

## WHELEN / AEROFLASH / CESSNA CROSS REFERENCE CHART

| WHELEN MODEL | WHELEN PART#   | CESSNA PART# | WHELEN LED EQUIVALENT MODEL # | AEROFLASH PART# | DESCRIPTION                                     |
|--------------|----------------|--------------|-------------------------------|-----------------|---|
| A427-3       | 38-0130106-00  | C622006-0105 | —                             | 80-0018         | Strobe Tube Gasket/Spacer                       |
| A427         | 02-0250274-00  | C622006-0106 | —                             | 073-0270        | Strobe Flash Tube Assembly                      |
| A427         | 02-0250274-00  | C622006-0108 | —                             | 073-0270        | Strobe Flash Tube Assembly                      |
| A428         | 68-4290001-30  | C622006-0103 | —                             | 111-0016        | Wingtip Strobe Lens (Clear)                     |
| A426         | 19-1900000-009 | —            | —                             | 101-0084        | Lens Retainer                                   |
| A650PG14     | 01-0770054-00  | —            | 7111001                       | 073-0530G       | Strobe/Position Light Assembly 14 VDC, Green    |
| A650PR14     | 01-0770054-02  | —            | 7111002                       | 073-0530R       | Strobe/Position Light Assembly 14 VDC, Red      |
| A600PG14     | 01-0790006-00  | —            | 9034001                       | 073-0540G       | Strobe/Position/Tailight Assembly 14 VDC, Green |
| A600PR14     | 01-0790006-02  | —            | 9034002                       | 073-0540R       | Strobe/Position/Tailight Assembly 14 VDC, Red   |
| A490TCCF     | 01-0770006-09  | C622008-0101 | —                             | 152-0007        | Strobe Power Supply, 14 VDC                     |
| A490TCCF     | 01-0770006-09  | C622007-0101 | —                             | 152-0008        | Strobe Power Supply, 14 VDC                     |
| A490TCCF     | 01-0770006-09  | C622008-0102 | —                             | 152-0009        | Strobe Power Supply, 28 VDC                     |
| A490TCCF     | 01-0770006-09  | C622007-0103 | —                             | 152-0010        | Strobe Power Supply, 28 VDC                     |
| A490TCCF     | 01-0770006-09  | -            | —                             | 152-0011        | Strobe Power Supply, 14 VDC, Double Flash       |
| 7050900      | 01-0770509-00  | C621001-0106 | 7105500                       | 151-0001        | Flasher Assembly (Red 14 VDC)                   |
| 7050903      | 01-0770509-03  | C621001-0102 | 7105501                       | 151-0004        | Flasher Assembly (Red 28 VDC)                   |
| SA406        | 02-0350053-00  | —            | —                             | 073-0141        | Strobe Flash Tube Assembly                      |
| 28VDC150W    | 34-0226010-91  | C17312-1     | —                             | 040-0003        | Halogen Lamp, 28 VDC 150W                       |
| 12V125W      | 34-0212010-97  | C17312-3     | —                             | 040-0028        | Halogen Lamp, 14 VDC 125W                       |

## WHELEN / SDI / HOSKINS CROSS REFERENCE CHART

| WHELEN MODEL | WHELEN PART#  | SDI/HOSKINS PART# | WHELEN LED EQUIVALENT MODEL # | DESCRIPTION  |
|--------------|---------------|-------------------|-------------------------------|--|
| A650         | 01-0770053-00 | 701303-1          | —                             | Wingtip Strobe Flash Tube Assembly, Left                                 |
| A650         | 01-0770053-00 | 701303-2          | —                             | Wingtip Strobe Flash Tube Assembly, Right                                |
| A430         | 01-0770031-00 | 30-0005-1         | —                             | Wingtip Strobe Flash Tube Assembly (Amp Conn.)                           |
| A625         | 01-0770058-00 | 30-0005-1         | —                             | Wingtip Strobe Flash Tube Assembly (Amp Conn.)                           |
| A625         | 01-0770058-00 | 30-0005           | —                             | Wingtip Strobe Flash Tube Assembly (MS Conn.)                            |
| A450         | 01-0770032-00 | 201803-1          | —                             | Remote Strobe Light Assembly, White Lens                                 |
| A470AR       | 01-0770019-18 | 201803-2          | —                             | Remote Strobe Light Assembly, Red Lens                                   |
| A470AW       | 01-0770019-19 | 201945-1          | —                             | Remote Strobe Light Assembly, White Lens                                 |
| A470AR       | 01-0770019-18 | 201945-2          | —                             | Remote Strobe Light Assembly, Red Lens                                   |
| A470AS       | 01-0770019-20 | 201945-7          | —                             | Remote Strobe Light Assembly, Red/White Lens                             |
| A500AV14     | 01-0770024-00 | 701557-1          | —                             | Combination Nav/Strobe Taillight 14 VDC                                  |
| A500AV28     | 01-0770024-01 | 701557-2          | —                             | Combination Nav/Strobe Taillight 28 VDC                                  |
| A500AV14     | 01-0770024-00 | 701557-1M         | —                             | Combination Nav/Strobe Taillight 14 VDC (Mooney)                         |
| A500AV14     | 01-0770024-00 | 701557-5          | —                             | Combination Nav/Strobe Taillight 14 VDC (Beech)                          |
| A500AV28     | 01-0770024-01 | 701557-6          | —                             | Combination Nav/Strobe Taillight 28 VDC (Beech)                          |
| HRCFAW       | 01-0770029-30 | 701620-1          | —                             | Bright Star 14 VDC, Self-Contained Strobe (Clear Lens)                   |
| HRCFAR       | 01-0770029-29 | 701620-2          | 71080 Series                  | Bright Star 14 VDC, Self-Contained Strobe (Red Lens)                     |
| HRCFAS       | 01-0770029-31 | 701620-3          | —                             | Bright Star 14 VDC, Self-Contained Strobe (Red/Clear Lens)               |
| HRCFAW       | 01-0770029-30 | 700801-1          | —                             | Silver Star 14-28 VDC, Self-Contained Strobe (Clear Lens)                |
| HRCFAR       | 01-0770029-29 | 700801-2          | 71080 Series                  | Silver Star 14-28 VDC, Self-Contained Strobe (Red Lens)                  |
| HRCFAS       | 01-0770029-31 | 700801-7          | —                             | Silver Star 14-28 VDC, Self-Contained Strobe (Red/Clear Lens)            |
| 7028523      | 01-0770285-23 | 700801-H-1        | —                             | Silver Star 14-28 VDC, Self-Contained Strobe (Clear Lens) Helicopter     |
| 7028525      | 01-0770285-25 | 700801-H-2        | 71080 Series                  | Silver Star 14-28 VDC, Self-Contained Strobe (Red Lens) Helicopter       |
| 7028524      | 01-0770285-24 | 700801-H-7        | —                             | Silver Star 14-28 VDC, Self-Contained Strobe (Red/Clear Lens) Helicopter |
| A490TCF      | 01-0770006-08 | 701295-3          | —                             | Strobe Power Supply (14 VDC)   |
| A490TCF      | 01-0770006-08 | 701295-4          | —                             | Strobe Power Supply (24 VDC)   |
| D900287      | 01-0790028-07 | 701148-7-2        | —                             | Remote Strobe Light Fixture w/MS Connector                               |

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## WHELEN / GRIMES CROSS REFERENCE LIST

| WHELEN MODEL | WHELEN PART#   | GRIMES PART#   | WHELEN LED EQUIVALENT MODEL # | DESCRIPTION                            |
|--------------|----------------|----------------|-------------------------------|--|
| W1284C       | 68-4230020-30  | A1280-1        | —                             | Position Light Lens, Clear             |
| W1284R       | 68-4230020-50  | A1280-2        | —                             | Position Light Lens, Red               |
| W1284G       | 68-4230020-40  | A1280-3        | —                             | Position Light Lens, Green             |
| W1285PG1     | 01-0770001-41  | A1285G-14      | —                             | Position Light Assembly, Green, 14 VDC |
| W1285PG2     | 01-0770001-42  | A1285G-28      | —                             | Position Light Assembly, Green, 28 VDC |
| W1285PR1     | 01-0770001-51  | A1285R-14      | —                             | Position Light Assembly, Red, 14 VDC   |
| W1285PR2     | 01-0770001-52  | A1285R-28      | —                             | Position Light Assembly, Red, 28 VDC   |
| A315LO-( )   | 01-0770106-( ) | A1719          | —                             | Cockpit Utility Light                  |
| W1250PG1     | 01-0770082-02  | A1815AG-14     | —                             | Position Light Assembly, Green, 14 VDC |
| W1250PG2     | 01-0770082-03  | A1815AG-28     | 7101501                       | Position Light Assembly, Green, 28 VDC |
| W1250PR1     | 01-0770082-00  | A1815AR-14     | —                             | Position Light Assembly, Red, 14 VDC   |
| W1250PR2     | 01-0770082-01  | A1815AR-28     | 7101502                       | Position Light Assembly, Red, 28 VDC   |
| A555AV14     | 01-0770034-00  | A2064-12 OR 14 | 7101112                       | Tail Position Light Assembly, 14 VDC   |
| A555AV28     | 01-0770034-01  | A2064-24 OR 28 | 7101102                       | Tail Position Light Assembly, 28 VDC   |
| WA4174-24    | 34-0070372-01  | A4174-24       | —                             | Reflector Lamp, 28 VDC, 40W            |
| WA4513-1     | 68-3670390-30  | A5413-1        | —                             | Lens, Aviation White                   |
| A315HI-( )   | 01-0770113-( ) | A5395          | —                             | Cockpit Utility Light                  |
| W6458        | 27-0270382-00  | A6458          | —                             | Motor, 28 VDC                          |
| W6532        | 27-0270381-00  | A6532          | —                             | Motor, 28 VDC                          |
| 70348( )     | 01-0770348-( ) | A6795          | —                             | Post Light                             |
| WA7079B-12   | 34-0070371-02  | A7079B-12      | —                             | Reflector Lamp, 14 VDC, 40W            |
| WA7079B-24   | 34-0070371-01  | A7079B-24      | —                             | Reflector Lamp, 28 VDC, 40W            |
| W1290-14     | 34-0414020-65  | A7512-12       | —                             | Reflector Lamp, 14 VDC, 26W            |
| W1290-28     | 34-0428020-65  | A7512-24       | —                             | Reflector Lamp, 28 VDC, 26W            |
| A350CNRD-( ) | 01-0770119-( ) | A8970          | —                             | Post Light                             |
| A350CNIW-( ) | 01-0770119-( ) | A8970B         | —                             | Post Light                             |
| A350CNCL-( ) | 01-0770119-( ) | A8970C         | —                             | Post Light                             |
| A350CNRD-( ) | 01-0770119-( ) | A8970IR        | —                             | Post Light                             |
| WA9906-7     | 34-0050315-01  | A9906-7        | —                             | Lamp, Miniature Threaded, 28 VDC       |
| A360-( )     | 01-0770142-( ) | B3550-( )      | 70813 SERIES                  | Cabin Light Assembly                   |
| A360S-( )    | 01-0770142-( ) | B3555-( )      | —                             | Cabin Light Assembly (w/Switch)        |
| A715-1       | 01-0770155-01  | B4150B         | —                             | Landing Light Housing (PAR-36)         |
| 90095-( )    | 01-0790095-( ) | D6490          | —                             | Landing Light Housing (PAR-46)         |
| HRCFA( )     | 01-0770029-( ) | D7080A-( )     | 71080/90520                   | Self-Contained Strobe Light            |
| HRCFA( )     | 01-0770029-( ) | G7740A-( )     | 71080/90520                   | Self-Contained Strobe Light            |
| HRCFA( )     | 01-0770029-( ) | G8400-( )      | 71080/90520                   | Self-Contained Strobe Light            |
| 90044( )     | 01-0790044-( ) | G9950-( )      | 90088 SERIES                  | Flashing Beacon                        |
| 70210( )     | 01-0770210-( ) | 10-0031-( )    | —                             | Threshold Light Assembly               |
| C702321      |                | 10-0035-( )    | —                             | Aisle Light                            |
| A325ML( )    | 01-0770061-( ) | 10-0644-1      | —                             | Map Light                              |
| A325FL( )    | 01-0770061-( ) | 10-0644-3      | —                             | Map Light                              |
| W11631       | 34-0070372-02  | 11631          | —                             | Reflector Lamp, 6.2 VDC, 40W           |
| A300( )      | 01-0770104-( ) | 15-0083-( )    | —                             | Map Light                              |
| W1512        | 34-0070373-01  | 1512           | —                             | Reflector Lamp, 12 VDC, 21W            |
| W1524        | 34-0070373-03  | 1524           | —                             | Reflector Lamp, 24 VDC, 21W            |
| W16870       | 34-0070371-03  | 16870          | —                             | Lamp                                   |
| W1982SP      | 34-0070403-00  | 1982SP         | —                             | Lamp, 28 VDC, 75W                      |
| SACF         | 01-0770030-01  | 30-0437-1      | 71080/90520                   | Self-Contained Strobe                  |

Continued on page 47

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# CROSS REFERENCE CHARTS

## WHELEN / GRIMES CROSS REFERENCE LIST CONTINUED

| WHELEN MODEL    | WHELEN PART#      | GRIMES P/N  | WHELEN LED EQUIVALENT MODEL # | DESCRIPTION  |
|-----------------|-------------------|-------------|-------------------------------|--|
| HRCFA( )        | 01-0770029-( )    | 30-0437-100 | 71080/90520                   | Self-Contained Strobe                                    |
| A450            | 01-0770032-00     | 30-0465-5   | —                             | Remote Strobe Head Assembly                              |
| D90028-7        | 01-0790028-07     | 30-0467-( ) | —                             | Wingtip Strobe Light                                     |
| D90028-9        | 01-0790028-09     | 30-0467-( ) | —                             | Tail Strobe Light  |
| A470AW          | 01-0770019-19     | 30-0504-1   | —                             | Remote Strobe Light Assembly, White                      |
| A470AR          | 01-0770019-18     | 30-0504-3   | —                             | Remote Strobe Light Assembly, Red                        |
| A500AV( )       | 01-0770024-( )    | 30-0516-( ) | —                             | Tail Strobe/Position Light Assembly                      |
| A625            | 01-0770058-03     | 30-0531-1   | —                             | Remote Strobe Light Assembly                             |
| A650PR14        | 01-0770054-02     | 30-0538-1   | 7111002                       | Strobe/Position Light Assembly, Red, 14 VDC              |
| A650            | 01-0770053-00     | 30-0538-11  | —                             | Strobe Assembly, Modification Required                   |
| A650PG14        | 01-0770054-00     | 30-0538-2   | 7111001                       | Strobe/Position Light Assembly, Green, 14 VDC            |
| A650PR28        | 01-0770054-03     | 30-0538-3   | 7111004                       | Strobe/Position Light Assembly, Red, 28 VDC              |
| A650PG28        | 01-0770054-01     | 30-0538-4   | 7111003                       | Strobe/Position Light Assembly, Green, 28 VDC            |
| A512A( )        | 01-0750139-( )    | 30-0815-( ) | —                             | Strobe Tube & Socket Assembly                            |
| 90029( )        | 01-0790029-( )    | 30-1329-( ) | —                             | Strobe/Position Light Assembly                           |
| 70239( )        | 01-0770239-( )    | 30-0863-1   | —                             | Strobe/Position Light Assembly                           |
| D90028( )       | 01-0790028-( )    | 30-1331-( ) | —                             | Strobe Lighthead   |
| D90028( )       | 01-0790028-( )    | 30-1467-( ) | —                             | Strobe Lighthead   |
| 7048601/7048602 | 01-0770486-01/-02 | 30-1661-( ) | —                             | Navigation Light/Position Light Used on Fairchild Metros |
| A427            | 02-0250274-00     | 31-2645-1   | —                             | Flash-Tube Assembly                                      |
| C70190( )       | 01-0770190-( )    | 36170-( )   | 71144 SERIES                  | Goose Neck Light   |
| 90044( )        | 01-0790044-( )    | 40-0100-( ) | 90088 SERIES                  | Flasher Beacon   |
| 90044( )        | 01-0790044-( )    | 40-0117-( ) | 90088 SERIES                  | Flasher Beacon   |
| 90044( )        | 01-0790044-( )    | 40-0127-( ) | 90088 SERIES                  | Flasher Beacon   |
| HRCFA( )        | 01-0770029-( )    | 40-0129-( ) | 71080/90520                   | Self-Contained Strobe Light                              |
| W55-0069-1      | 27-0270383-00     | 55-0069-1   | —                             | Motor, 28 VDC  |
| W55-0221-1      | 36-0170384-01     | 55-0221-1   | —                             | Strobe Tube, Pyrex                                       |
| W55-0221-5      | 36-0170384-02     | 55-0221-5   | —                             | Strobe Tube, Quartz                                      |
| W55-0331-3      | 36-0170386-01     | 55-0331-3   | —                             | Strobe Tube, Quartz                                      |
| W55-0681-7      | 36-0170387-01     | 55-0681-7   | —                             | Strobe Tube, Quartz                                      |
| W55-0723-1      | 36-0170388-01     | 55-0723-1   | —                             | Strobe Tube, Quartz                                      |
| HDACF           | 01-0770028-05     | 60-1431-1   | —                             | Power Supply   |
| HDACF           | 01-0770028-05     | 60-1431-3   | —                             | Power Supply   |
| HDACF           | 01-0770028-05     | 60-1592-5   | —                             | Power Supply   |
| HDACF           | 01-0770028-05     | 60-1592-11  | —                             | Power Supply   |
| 90079-04        | 01-0790079-04     | 60-1750-1   | —                             | Power Supply, MS Connectors                              |
| 90079-04        | 01-0790079-04     | 60-1750-3   | —                             | Power Supply, MS Connectors                              |
| 90080-01        | 01-0790080-01     | 60-2471-3   | —                             | Power Supply   |
| 90101-05        | 01-0790101-05     | 60-2799-( ) | —                             | Power Supply, Wingtip Mount                              |
| HDACF           | 01-0770028-05     | 60-2836-1   | —                             | Power Supply   |
| HDACF           | 01-0770028-05     | 60-2927-1   | —                             | Power Supply   |
| W626            | 34-0070389-00     | 626         | —                             | Reflector Lamp, 6.2 VDC, 40W                             |
| W628            | 34-0070373-02     | 628         | —                             | Reflector Lamp, 26.5 VDC, 26W                            |
| W632            | 34-0070375-01     | 632         | —                             | Lamp, Taillight, 28 VDC                                  |
| W674            | 34-0070374-01     | 674         | —                             | Lamp, Reading Light, 28 VDC                              |
| W678            | 34-0070391-01     | 678         | —                             | Lamp, Taillight, 28 VDC                                  |
| W68424          | 34-0070392-01     | 684-24      | —                             | Reflector Lamp, 28 VDC, 40W                              |
| W692            | 34-0270398-9H     | 692         | —                             | Lamp, D.C. Bayonet, 28 VDC, 25W                          |

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## POST LIGHT CROSS REFERENCE LIST

| BREAKDOWN          | MODEL    | PART#         |
|--------------------|----------|---------------|
| A350CN-IW-BK-LG-6  | A350CN00 | 01-0770119-00 |
| A350CN-RD-BK-LG-6  | A350CN01 | 01-0770119-01 |
| A350CN-CL-BK-LG-6  | A350CN02 | 01-0770119-02 |
| A350CN-IW-BK-SH-6  | A350CN03 | 01-0770119-03 |
| A350CN-RD-BK-SH-6  | A350CN04 | 01-0770119-04 |
| A350CN-CL-BK-SH-6  | A350CN05 | 01-0770119-05 |
| A350CN-IW-BK-LG-14 | A350CN06 | 01-0770119-06 |
| A350CN-RD-BK-LG-14 | A350CN07 | 01-0770119-07 |
| A350CN-CL-BK-LG-14 | A350CN08 | 01-0770119-08 |
| A350CN-IW-BK-SH-14 | A350CN09 | 01-0770119-09 |
| A350CN-RD-BK-SH-14 | A350CN10 | 01-0770119-10 |
| A350CN-CL-BK-SH-14 | A350CN11 | 01-0770119-11 |
| A350CN-IW-BK-LG-28 | A350CN12 | 01-0770119-12 |
| A350CN-RD-BK-LG-28 | A350CN13 | 01-0770119-13 |
| A350CN-CL-BK-LG-28 | A350CN14 | 01-0770119-14 |
| A350CN-IW-BK-SH-28 | A350CN15 | 01-0770119-15 |
| A350CN-RD-BK-SH-28 | A350CN16 | 01-0770119-16 |
| A350CN-CL-BK-SH-28 | A350CN17 | 01-0770119-17 |
| A350CN-IW-GR-LG-6  | A350CN18 | 01-0770119-18 |
| A350CN-RD-GR-LG-6  | A350CN19 | 01-0770119-19 |
| A350CN-CL-GR-LG-6  | A350CN20 | 01-0770119-20 |
| A350CN-IW-GR-SH-6  | A350CN21 | 01-0770119-21 |
| A350CN-RD-GR-SH-6  | A350CN22 | 01-0770119-22 |
| A350CN-CL-GR-SH-6  | A350CN23 | 01-0770119-23 |
| A350CN-IW-GR-LG-14 | A350CN24 | 01-0770119-24 |
| A350CN-RD-GR-LG-14 | A350CN25 | 01-0770119-25 |
| A350CN-CL-GR-LG-14 | A350CN26 | 01-0770119-26 |
| A350CN-IW-GR-SH-14 | A350CN27 | 01-0770119-27 |
| A350CN-RD-GR-SH-14 | A350CN28 | 01-0770119-28 |
| A350CN-CL-GR-SH-14 | A350CN29 | 01-0770119-29 |
| A350CN-IW-GR-LG-28 | A350CN30 | 01-0770119-30 |
| A350CN-RD-GR-LG-28 | A350CN31 | 01-0770119-31 |
| A350CN-CL-GR-LG-28 | A350CN32 | 01-0770119-32 |
| A350CN-IW-GR-SH-28 | A350CN33 | 01-0770119-33 |
| A350CN-RD-GR-SH-28 | A350CN34 | 01-0770119-34 |
| A350CN-CL-GR-SH-28 | A350CN35 | 01-0770119-35 |

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