

# AVIATION

## 2012 CATALOG

MANUFACTURED  
**WHELEN**  
IN AMERICA



**American Employees, American Manufacturing, American Pride!**



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Makers of Aviation, Automotive and Industrial Safety Lighting since 1953

Whelen Aviation Warning Products are all designed, assembled, tested and manufactured in the United States of America.

## CONTACT US:

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## WHERE IT ALL BEGAN...

*IT ALL STARTED 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 etc. The production volumes seen in the automotive industry have allowed Whelen to invest in the latest automated assembly equipment. Our aviation division capitalizes on our state-of-the-art manufacturing equipment, even with typically low volume production runs. Last year Whelen purchased over 44 million LEDs for use in their extensive family of products. This purchasing volume allows Whelen to stay current with the latest technological advances in LED lighting and remain cost competitive in both industries.



OFFICE: BRYAN, JEFF, GREG, CARL, BOB, JESSICA, & SHARON



CORPORATE HEADQUARTERS IN CHESTER, CT



CORPORATE PILOTS: JIM & DENNIS



MANUFACTURING FACILITIES IN CHARLESTOWN, NH

# Whelen Corporate Capabilities

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 outsourcing; the use of robotics and state-of-the-art production equipment; and, perhaps most importantly, a motivated workforce of over 1100 employees. This allows us to meet and adapt to our customer's changing needs in the shortest amount of time.

- Two manufacturing facilities totaling over 450,000 square feet.
- Largest staff of Design Engineers in the industry.
- Research and development.
- Partnering with OEM's on new vehicle design and product integration.
- Plastics injection molding machines from 30 to 2000 tons capacity.
- In house plastics hard coating, metallizing, and 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.

## ELECTRONIC MANUFACTURING



SMT line

### PRINTED CIRCUIT BOARDS

- Through hole
- Surface mount
- Wave solder
- Automatic insertion
- In-Circuit Testing



Robotic Solder machine



SMT Screen Printer

## INJECTION MOLDING

- 20 MILLION PARTS PRODUCED ANNUALLY
- 90 TON THRU 1500 TON



1500 Ton Injection Molding machine



90 Ton Injection Molding machine



Injection Mold

## Whelen Corporate Capabilities (Cont'd)

### FABRICATION



ROBOTICS

- ROBOTIC CUTTING AND DRILLING
- VACUUM FORM MOLDING

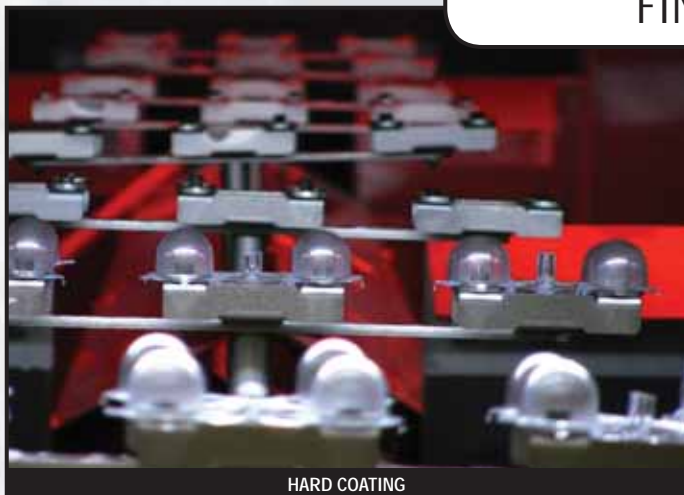


VACUUM MOLDING



ROBOTICS

### FINISHING PROCESSES



HARD COATING

- HARD COATING OF POLYCARBONATE LENSES
- METALLIZATION OF REFLECTORS



METALLIZING



UV COATING

### PHOTOMETRICS

- 3 FULLY CERTIFIED CHAMBERS



PHOTOMETRIC CHAMBER



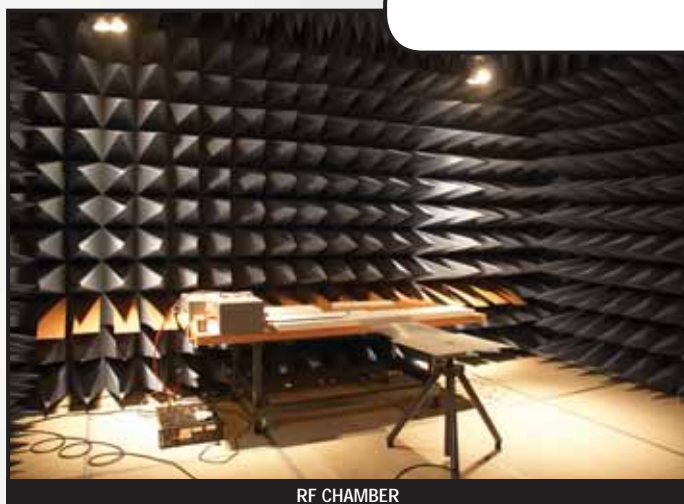
GONIOMETER



PHOTOMETRIC EYE

## TESTING

• CERTIFIED RTCA D0-160 TESTING LAB



RF CHAMBER



RF



RAIN



ALTITUDE



CORROSION



DUST



VIBRATION



ENVIRONMENTAL

## WORLD AVIATION MARKETS SERVED



BUSINESS/CORPORATE



GENERAL AVIATION



MILITARY



ROTOCRAFT



LIGHT SPORT/EXPERIMENTAL



UAV

## Light 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).

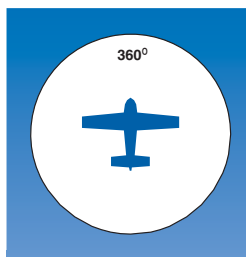
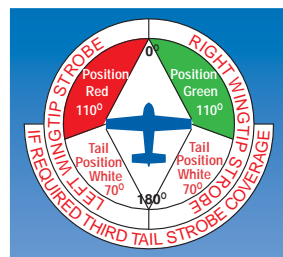
Aircraft for which type certificate was applied for After August 11, 1971 to July 18, 1977:

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).

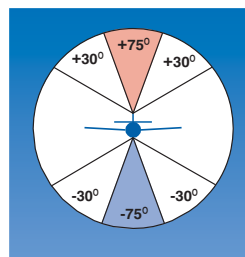
Aircraft for which type certificate was applied for After July 18, 1977:

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.

## Lighting Installation Locations

**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 and 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.

## Lighting Technologies

### Lighting Technology Glossary

#### 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.



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## 71110 Series - Strobe Anti-Collision/LED Position Light Assembly



71110 Series is a Wingtip mounted Strobe Anti-Collision/Position light assembly utilizing LED's for the Forward Position lights. 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 the Whelen Model A650PG/PR Series without replacing the current strobe power supply. Navigation light portion is wired with flying leads.

Drawing #	Weight	Dimensions H x W x L	Current Draw	Available LED colors	Lenses
71110	0.45 lbs. (204gm) 14 VDC	Exposed Height: 2.70" (69mm) x 1.78" (45.21mm) x 3.88" (98.55mm)	LED Navigation Light Power Consumption: 0.25 amps @ 14 VDC or 28 VDC	Aviation Red Aviation Green	Clear RFI coated glass: strobe Clear Polycarbonate: Navigation Lights
	0.50 lbs. (227gm) 28 VDC				

Model #	Part #	Description	Approvals
7111001	01-0771110-01	Position Green, 14 VDC	FAA TSO-C96a Class II / TSO-C30c Type II
7111002	01-0771110-02	Position Red, 14 VDC	FAA TSO-C96a Class II / TSO-C30c Type I
7111003	01-0771110-03	Position Green, 28 VDC	FAA TSO-C96a Class II / TSO-C30c Type II
7111004	01-0771110-04	Position Red, 28 VDC	FAA TSO-C96a Class II / TSO-C30c Type I

## A650 PG/PR Series - Strobe Anti-Collision/Halogen Position Light Assy. (NSN 6210-12908385/-86)



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.

Drawing #	Weight	Dimensions H x W x L	Current Draw	Available colors	Lenses
70054	0.6 lbs. (272gm)	Exposed Height: 2.4" (61mm) x 1.75" (44.45mm) x 4.0" (102mm)	Position Lamp Power Consumption: 2 amps @14 VDC; 1 Amp @28 VDC	Aviation Red Aviation Green	Heat Resistant Glass

Model #	Part #	Description	Approvals
A650PG14	01-0770054-00	Position Green, 14 VDC	FAA/PMA
A650PG28	01-0770054-01	Position Green, 28 VDC <b>NSN (-85)</b>	FAA/PMA
A650PR14	01-0770054-02	Position Red, 14 VDC	FAA/PMA
A650PR28	01-0770054-03	Position Red, 28 VDC <b>NSN (-86)</b>	FAA/PMA
A650PGD1	01-0770054-04	Position Green, 14 VDC, radio-shielded	FAA/PMA
A650PGD2	01-0770054-05	Position Green, 28 VDC, radio-shielded	FAA/PMA
A650PRD1	01-0770054-06	Position Red, 14 VDC, radio-shielded	FAA/PMA
A650PRD2	01-0770054-07	Position Red, 28 VDC, radio-shielded	FAA/PMA

## 90453-( ) Series - LED Redundant Lighting - Anti-Collision/Position Light Assembly (patented)



**With Onboard Diagnostix™!** 90453-( ) Series is Whelen's patented "two lights in one" with Diagnostix indication (Wingtip POS/ACL). The most modern inner wing lighting solution on the market today, designed to comply with FAA TSO-C96a Class II (400 ecp) anti-collision light requirements and TSO-C30c forward position light requirements. The LED's provide a significant reduction in current draw over conventional position light bulbs and strobe power supplies. Whelen LED designs virtually eliminate EMI/RFI interference. Model 90453-( ) analyzes circuit condition and can automatically compensate for any given partial circuit failure. Diagnostix indicator is viewable by ground personnel indicating the assembly is operating in redundant mode. Light remains FAA/TSO compliant during operation in a redundant mode! All current source and flasher circuitry is contained within the current source/flasher box located in the wing (see Model 90456, call factory). Item ships with D38999 Series close out connector. 28 VDC Only.

Drawing #	Weight	Dimensions H x W x L	Current Draw	Available colors	Lenses
90453	0.48 lbs (218gm)	3.94" (100mm) x 2.10" (53mm) x 4.10" (104mm)	Flasher POS: 0.25amps / ACL 0.6 Average, 3.0 amps Peak	Red or Green	none

Model #	Part #	Description	Color	Approvals
9045301	01-0790453-01	Redundant LED POS/ACL, 28 VDC	Green	FAA TSO-C96a Class II / TSO-C30c Type II
9045302	01-0790453-02	Redundant LED POS/ACL, 28 VDC	Red	FAA TSO-C96a Class II / TSO-C30c Type I

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# 71170 Series - LED Anti-Collision/LED Position Light Assembly

## Now with Integrated Ground Recognition Light

71170 Series is upgraded! 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 intended for use as a system with 9048200 and 7123403 Series lighthead and flasher/current sources. Unit complies with TSO-C96a Class II (400 ecp) anti-collision light requirements, and TSO-C30c forward position light requirements. Input connector: MIL D38999 attached to a 24 inch harness attached to the rear of the assembly.



Drawing #	Weight	Dimensions H x W x L	Current Draw	Available LED colors	Lenses
71170	0.8 Lbs (363gm)	Exposed Height: 2.33" (59mm) x 1.77" (50mm) x 3.86" (98mm)	ACL: 0.60 amps average, 3.0a Peak / POS: 0.25a / GND REC: 0.15a, 7.5a Peak	Red, Green and White	—

Model #	Part #	Description	Approvals
7117001	01-0771170-01	LED POS (Green) / ACL (White), GND REC (Red), 28 VDC	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
7117007	01-0771170-07	LED POS (Green)/ ACL (White), GRN REC (Red)	FAA TSO-C96a Class II / TSO-C30c Type II
7117008	01-0771170-08	LED POS (Red)/ ACL (White), GRN REC (Red)	FAA TSO-C96a Class II / TSO-C30c Type I
7117051	01-0771170-51	LED POS (Green)/ ACL (White)	FAA TSO-C96a Class II / TSO-C30c Type II
7117052	01-0771170-52	LED POS (Red)/ ACL (White)	FAA TSO-C96a Class II / TSO-C30c Type I
7117053	01-0771170-53	LED POS (Green)/ ACL (White)	FAA TSO-C96a Class II / TSO-C30c Type II
7117054	01-0771170-54	LED POS (Red)/ ACL (White)	FAA TSO-C96a Class II / TSO-C30c Type I



## MATRIX

Model 7123403



powers ..... Model 71170



..... or Model 90482



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## 90340 & 90375 Series - Strobe Anti-Collision/LED Position Light Assembly



90340 Series is an all inclusive Wingtip mounted Strobe Anti-Collision/Position light assembly utilizing LED's 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 the Whelen Model A600PG/PR Series without replacing the current strobe power supply. 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.

Drawing #	Weight	Dimensions H x W x L	Current Draw	Available LED colors	Lenses
90340	0.60 lbs. (272gm) 14 VDC 0.65 lbs. (295gm) 28 VDC	Exposed Height: 2.70" (69mm) x 1.87" (47.49mm) x 5.69" (144.52mm)	LED Navigation Light Power Consumption: 0.5 amps @ 14 VDC, 0.25 amps @ 28 VDC	Aviation Red, Aviation Green & Aviation White 1.1 Lbs. (499gm)	Clear RFI coated glass on strobe Clear polycarbonate on Navigation lights
90375	Model 90375 Series, same as 90340 Series assembly with addition of 3 feet of braided bonded protection. <b>NOTE:</b> For composite wingtip structure.				

Model #	Part #	Description	Approvals
9034001	01-0790340-01	Position Green, 14 VDC	FAA TSO-C96a Class II / TSO-C30c Types II & III
9034002	01-0790340-02	Position Red, 14 VDC	FAA TSO-C96a Class II / TSO-C30c Types I & III
9034003	01-0790340-03	Position Green, 28 VDC	FAA TSO-C96a Class II / TSO-C30c Types II & III
9034004	01-0790340-04	Position Red, 28 VDC	FAA TSO-C96a Class II / TSO-C30c Types I & III
9037501	01-0790375-01	Position Green, 28 VDC with shield	FAA TSO-C96a Class II / TSO-C30c Types II & III
9037502	01-0790375-02	Position Red, 28 VDC with shield	FAA TSO-C96a Class II / TSO-C30c Types I & III

## A600 PG/PR Series - Strobe Anti-Collision/Position Light Assembly (NSN 6220-15638384/-85)



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.

Drawing #	Weight	Dimensions H x W x L	Current Draw	Available colors	Lenses
90006	0.8 lbs. (363gm)	Exposed Height: 2.4" (61mm) x 1.7" (43mm) x 5.63" (143mm)	4 amps @ 14 VDC; 2 amps @ 28 VDC	Aviation Green Aviation Red	Heat Resistant Glass

Model #	Part #	Description	Approvals
A600PG14	01-0790006-00	Position Green, 14 VDC	FAA TSO-C30b/FAA/PMA
A600PG28	01-0790006-01	Position Green, 28 VDC, <b>NSN (-84)</b>	FAA TSO-C30b/FAA/PMA
A600PR14	01-0790006-02	Position Red, 14 VDC	FAA TSO-C30b/FAA/PMA
A600PR28	01-0790006-03	Position Red, 28 VDC, <b>NSN (-85)</b>	FAA TSO-C30b/FAA/PMA
A600PGD1	01-0790006-04	Position Green, 14 VDC, radio-shielded	FAA TSO-C30b/FAA/PMA
A600PGD2	01-0790006-05	Position Green, 28 VDC, radio-shielded	FAA TSO-C30b/FAA/PMA
A600PRD1	01-0790006-06	Position Red, 14 VDC, radio-shielded	FAA TSO-C30b/FAA/PMA
A600PRD2	01-0790006-07	Position Red, 28 VDC, radio-shielded	FAA TSO-C30b/FAA/PMA
9000612	01-0790006-12	Position Green, 28 VDC, radio-shielded, used on Cirrus Design	FAA TSO-C30b
9000613	01-0790006-13	Position Red, 28 VDC, radio-shielded, used on Cirrus Design	FAA TSO-C30b



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## 90569 Series - All LED Forward & Aft Position/ACL Assembly



Flush Mount

### Smallest TSO Approved All LED 400 Effective POS/ACL Assembly In The World!

90569 Series is a Forward and Aft LED POS/ACL assembly with Integrated Red LED Ground Recognition lights. 90569 is an 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 (5.61" Long x 1.77" Wide) is a direct mechanical replacement for A600/90340 (with adapter). 90569 has an overall 2" exposed height. Unit ships with 12" of cable wiring into an amp connector. Available in 28 VDC only.

Drawing #	Weight	Dimensions H x W x L	Current Draw	Available colors	Lenses
90569	0.5 lbs (227gm)	Exposed Height: 2.01" (50.8mm) x 1.77" (44.96mm) x 5.61" (142.49mm)	(See 71457) 0.3 Amps Fwd & Aft Pos 0.85 Amps Average ACL	Aviation Green Aviation Red	Clear Polycarbonate

Model #	Part #	Description	Approvals
9056901	01-0790569-01	LED FWD/AFT POS/ACL, Green, Ground/Rec, 28 VDC	FAA TSO-C96a Class II / TSO-C30c Types II & III
9056902	01-0790569-02	LED FWD/AFT POS/ACL, Red, Ground/Rec, 28 VDC	FAA TSO-C96a Class II / TSO-C30c Types I & III
9056903	01-0790569-03	LED POS (Green)/ACL (White)	FAA TSO-C96a Class II / TSO-C30c Types II & III
9056904	01-0790569-04	LED POS (Red)/ACL (White)	FAA TSO-C96a Class II / TSO-C30c Types I & III
9056951	01-0790569-51	LED POS (Green)/ACL (White), GRN REC (IR)	FAA TSO-C96a Class II / TSO-C30c Types II & III
9056952	01-0790569-52	LED POS (Red)/ACL (White), GRN REC (IR)	FAA TSO-C96a Class II / TSO-C30c Types I & III



## 90612 Series - All LED Forward & Aft Position/Red ACL/IR Assembly



Flush Mount

### Smallest TSO Approved All LED 150 Effective POS/ACL Assembly In The World!

Same as Model 90569, the 90612 is a Forward and Aft LED POS/Red ACL assembly with Infrared LED Ground Recognition light. Uses Flasher 71550. Available in 28 VDC only.

Drawing #	Weight	Dimensions H x W x L	Current Draw	Available colors	Lenses
90612	0.5 lbs (227gm)	Exposed Height: 2.01" (50.8mm) x 1.77" (44.96mm) x 5.61" (142.49mm)	(See 71457) 0.3 Amps Fwd & Aft Pos 0.85 Amps Average ACL	Aviation Green Aviation Red	Clear Polycarbonate

Model #	Part #	Description	Approvals (Pending)
9061201	01-0790612-01	LED POS (Green)/ ACL (Red), GRN REC (IR), 28 V	FAA TSO-C96a Class II / TSO-C30c Types II & III
9061202	01-0790612-02	LED POS (Red)/ ACL (Red), GRN REC (IR), 28 V	FAA TSO-C96a Class II / TSO-C30c Types I & III

## Model 71457 - Current Source/Flasher (Models 90569 & 71495)




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.

Drawing #	Weight	Mounting Dimensions H x W x L	Current Draw
71457	0.58 lbs (263.08gm)	1.38" (35.05mm) x 3.67" (93.22mm) x 4.6" (116.84mm)	See 71457 (0.2 Amps Fwd & Aft Pos), (0.8 Amps Average ACL)

Model #	Part #	Description	Approvals
7145700	01-0771457-00	LED Flasher/Current Source, 28 VDC	FAA TSO-C96a TSO-C30c*
See Flasher/Current Source Photo Diagram at the top of next page			* with Model 90569

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## LED Wingtip Light Matrix

 90569	Part Number	Anti-Collision White	Anti-Collision Red	Ground Recognition Function	IR Function	Remote Flasher	Self-Contained
	90569 (01/02)	X	—	X	—	71457	—
	90569 (51/52)	X	—	—	X	71457	—
	90569 (03/04)	X	—	—	—	71457	—


 90400 90610 90612 90613	Part Number	Anti-Collision White	Anti-Collision Red	Ground Recognition Function	IR Function	Remote Flasher	Self-Contained
	90603 (01/02)	X	—	—	X	—	X
	90400 (91/92)	X	—	—	—	X	X
	90613 (01/02)	X	—	X	—	—	X
	90610	—	X	—	X	—	X
	90612	—	X	—	X	71550	—
	90613 (91/92)	X	—	—	X	—	—



Photo: Reid Kasprovicz

## 90615 LED Anti-Collision Light



90615 is a drop-in replacement for Grimes 30-1-12-5 (Northrup Grumman RC-12/King Air, also found on other military aircraft), comes standard with 5-1/4 inch round five hole mounting, producing 400 Effective Candela in White and 100 Effective Candela in Red. DUAL MODE with independent controls for Red and White LED packages. Unit ships with MS3112E14-5P Series Connector into the self-contained assembly. 28 VDC Only.

Drawing #	Weight	Dimensions H x Dia.	Current Draw	Available LED colors	Lenses
90615	1.4 lbs (635gm)	Exposed Height: 2.87" (72.90mm) x Mounting Diameter: 5.14" (130.56mm)	0.9 Amps Average	Aviation White Aviation Red	Clear Hardcoated Polycarbonate

Model #	Part #	Description	Approvals
9061500	01-0790615-00	LED Anti-Collision Upper, 28 VDC	FAA TSO-C96a Class II (white) FAA TSO-C96a Class III (red)
9061501	01-0790615-01	LED Anti-Collision Lower, 28 VDC	

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## 90325 Series - LED Forward & Aft Navigation & LED Anti-Collision



90325 Series and 71120 (Current Source) are an all LED solution to Cessna Citation Wingtip strobe legacy products manufactured by Whelen. A direct replacement for Whelen's 90206 & 90159 wingtip products. The 90325 will retrofit Models 550, S550, 560 or is able to be modified to fit other wings of similar design. See 90358 for smaller overall footprint. 90358 ships with a 24" (61cm) cable harness that mate to 71120. 28 VDC Only.



Drawing #	Weight	Dimensions H x W x L	Current Draw (with 71120)	Available LED colors	Lenses
90325	1.2 lbs (544gm)	Exposed Height: 2.61" (66mm) x 3.11" (79mm) x 10.24" (6mm)	LED Forward/Tail Position .25a	FOR/Tail POS: Red, Green, White	Clear Poly- carbonate Hardcoat
			LED Anti-Collision 0.85a Average, 4.5a Peak	Anti-Collision: White	

Model #	Part #	Description	Approvals
9032501	01-0790325-01	LED Position/Anti-Coll. (Green), 28 VDC	FAA TSO-C96a Class II / TSO-C30c Types I & III
9032502	01-0790325-02	LED Position/Anti-Coll. (Red), 28 VDC	FAA TSO-C96a Class II / TSO-C30c Types II & III

## 71120 Series - LED Current Source



71120 Series (Current Source) drives lighthouse Model 90325. 71120 are designed to fit the strobe power supply footprint used in Citation wingtips. 28 VDC Only.

Drawing #	Weight	Dimensions H x W x D	Current Draw (with 71120)	Flashrate
71120	0.95lbs (431gm)	2.53" (64mm) x 5.6 (142mm) x 4.63" (118mm)	LED Forward/Tail Position: .25a	45+/-5 fpm
			LED Anti-Collision: 0.85a Average, 4.5a Peak	

Model #	Part #	Description	VDC	Approvals
7112000	01-0771120-00	LED Flasher/Current Source	28	FAA TSO-C96a Class II/TSO-C30c

## 90159 Series - Wingtip Strobe Anti-Collision & Navigation Light Assembly



90159 Series Wingtip Strobe Anti-Collision & Navigation light assembly, STC #ST22BO for Cessna Citation Models 550, S550, and 560. Can be installed on other aircraft with minor modifications. Unit will replace 30-1085 assemblies..

Drawing #	Weight	Dimensions H x W x L	Current Draw	Available colors	Lenses
90159	1.9 lbs. (862gm)	Exposed Height: 3.65" (92.71mm) x 3.06" (78mm) x 11.03" (280mm)	Forward Position lamp: 2 amps @ 28 VDC Tail Position lamp: 2 amps @ 28 VDC	Aviation Red Aviation Green Aviation White	Glass

Model #	Part #	Description	VDC	Approvals
9015905	01-0790159-05	Left Wingtip (Red Position lens), no Tail Position light	28	FAA TSO-C96a Class II / FAA TSO-C30c Type I
9015906	01-0790159-06	Right Wingtip (Green Position lens), no Tail Position light		FAA TSO-C96a Class II / FAA TSO-C30c Type II
9015907	01-0790159-07	Left Wingtip with Tail Position light		FAA TSO-C96a Class II / FAA TSO-C30c Type I & III
9015908	01-0790159-08	Right Wingtip with Tail Position light		FAA TSO-C96a Class II / FAA TSO-C30c Type II & III



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## 90206 Series - Wingtip Strobe Anti-Collision & Navigation Light Assembly



90206 Series Wingtip Strobe Anti-Collision & Navigation light assembly, STC #ST00101B0 for Cessna Citation Model 560, serial numbers 257 & up. Unit will replace 30-1085 assemblies.

Drawing #	Weight	Dimensions H x W x L	Current Draw	Available colors	Lenses
90206	1.9 lbs. (862gm)	Exposed Height: 3.6" (91mm) x 3.06" (78mm) x 11.03" (280mm)	Forward Position lamp: 2 amps @ 28 VDC Tail Position lamp: 2 amps @ 28 VDC	Aviation Red Aviation Green Aviation White	Glass

Model #	Part #	Description	VDC	Approvals
9020603	01-0790206-03	Left Wingtip (Red Position lens), no Tail Position light	28	FAA TSO-C96a Class II / FAA TSO-C30c Type I
9020604	01-0790206-04	Right Wingtip (Green Position lens), no Tail Position light		FAA TSO-C96a Class II / FAA TSO-C30c Type II
9020607	01-0790206-07	Left Wingtip with Tail Position light		FAA TSO-C96a Class II / FAA TSO-C30c Type I & III
9020608	01-0790206-08	Right Wingtip with Tail Position light		FAA TSO-C96a Class II / FAA TSO-C30c Type II & III

## A625 Series - Wingtip/Tail Strobe Anti-Collision & Tip-Tank Light Assembly (NSN 6220-14835571)



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.

Drawing #	Weight	Dimensions H x W x L	Available colors	Lenses
70058	0.3 lbs. (136gm)	Exposed Height: 1.7" (43.18mm) x 2.12" (53.84mm) x 2.80" (71.12mm)	Aviation White	Radio-Shielded Glass

Model #	Part #	Description	Approvals
A625	01-0770058-03	Standard unit, Clear lens	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	



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## A650 Series - Wingtip Strobe Anti-Collision & Position Light Assembly



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.

Drawing #	Weight	Dimensions H x W x L	Available colors	Lenses
70053	0.2 lbs. (91gm)	Exposed Height: 2.4" (61mm) x 1.75" (44.45mm) x 2.70" (60.58mm)	Clear Aviation White	Glass

Model #	Part #	Description	Approvals
A650	01-0770053-00	Standard unit	FAA/PMA
A650D	01-0770053-13	Radio-shielded	

## 70821 Series - Wingtip Strobe Anti-Collision



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.

Drawing #	Weight	Dimensions H x W x L	Available colors	Lenses
70821	0.3 lbs. (136gm)	Exposed Height: 1.8" (46mm) x 1.8" (46mm) x 3.5 (89mm)	Aviation Red Aviation White	Glass

Model #	Part #	Description	Approvals
7082100	01-0770821-00	Standard unit, Clear lens	—
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 - Strobe Tube Assembly

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



Model #	Part #	Description	Used on
5062600	36-0050626-00	Strobe tube assembly, 6" long	Model 9011102
5062601	36-0050626-01	Strobe tube assy. 6" long w/grommet	Model 9034000 thru 07, 20, 21 Model 7111001 thru 04
5062602	36-0050626-02	Strobe tube assy. 12.5" long w/grommet	Model 9034008, 09
5062603	36-0050626-00	Strobe tube assy. 2" long w/grommet	Model 9037501, 02



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## A610 - Flash Tube & A612 - Glass Lens (NSN 6210-13555564)



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.

Drawing #	Weight	Dimensions H x W x L	Dimensions H x W x L	Lenses
A610: 50276 A612: 90005	A610 Flash Tube 0.09 lbs. (41gm) A612 Lens 0.08 lbs. (36gm)	A610: 1.6" (40.64mm) x 1.12" (28.39mm) x 1.56" (39.64mm)	A612: 1.68" (42.67mm) x 1.17" (29.71mm) x 1.75" (44.45mm)	A612: RF Coated Clear & Aviation Red

Model #	Part #	Description	Approvals
A610	02-0250276-00	Standard unit, 6" leads <b>NSN</b>	—
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	
A612C	68-2290005-34	Radio-shielded, Clear lens	
A612R	68-2290005-50	Standard Red lens	
A612RC	68-2290005-54	Radio-shielded, Red lens	

## Model A450 - 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.

Drawing #	Weight	Dimensions H x Dia.	Available colors	Lenses
70032	0.3 lbs. (136gm)	Exposed Height: 2.25" (57mm) x 2.5" (64mm)	Clear	Clear Pyrex® Glass

Model #	Part #	Description	Approvals
A450	01-0770032-00	Standard assembly, Clear lens	<b>FAA/PMA</b>

## 90111 Series - Remote Strobe - Wingtip/Tail



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

Drawing #	Weight	Dimensions H x W x L	Available colors	Lenses
90111	0.5 lbs. (227gm)	Exposed Height: 2.20" (55.88mm) x 1.75" (44.45mm) x 2.5" (63.50mm)	Aviation Red Clear	Glass

Model #	Part #	Description	Approvals
9011100	01-0790111-00	Shielded, Clear lens (BeechJet)	—
9011102	01-0790111-02	Shielded, masked Red lens (Piper)	<b>FAA/PMA</b>



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## 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.

Drawing #	Weight	Dimensions Exposed Height x Depth	Available colors	Lenses
90028	0.4 lbs. (181gm)	1.87" (48mm) x 2.25" (57mm)	Clear	N/A



Model #	Part #	Description	Approvals
9002800	01-0790028-00	Replacement flash tube assembly, unpainted	—
9002801	01-0790028-01	Replacement flash tube assembly, painted (White)	
D900283	01-0790028-03	Wingtip light assembly, 45° mounting bracket	
D900285	01-0790028-05	Taillight assembly, 90° mounting bracket	
D900287	01-0790028-07	Wingtip light assembly, 45° mtg. bracket, MS connector	
D900289	01-0790028-09	Taillight assembly, 90° mounting bracket, MS connector	

## Model 90102 - Dual Radio-Shielded Wingtip Strobe Light



Model 90102 Dual Radio-Shielded Wingtip Strobe light is designed with two lights for wingtip strobe redundancy. It is used on DeHavilland Dash 8 aircraft.

Drawing #	Weight	Dimensions H x W x L	Available colors	Lenses
90102	1.0 lbs. (454gm)	2.78" (71mm) x 2.4" (61mm) x 5.7" (145mm)	Clear	Glass

Model #	Part #	Description	Approvals
9010200	01-0790102-00	Dual radio-shielded Wingtip strobe light	FAA/PMA

## Model 90104 - Dual Radio-Shielded Tail Strobe Light



Model 90104 Dual Radio-Shielded Tail Strobe light is designed with two lights for tail strobe redundancy for DeHavilland Dash 8 aircraft.

Drawing #	Weight	Dimensions H x W x L	Available colors	Lenses
90104	1.0 lbs. (454gm)	2.78" (71mm) x 2.9" (74mm) x 6.7" (170mm)	Clear	Glass

Model #	Part #	Description	Approvals
9010400	01-0790104-00	Dual radio-shielded Tail strobe light	FAA/PMA



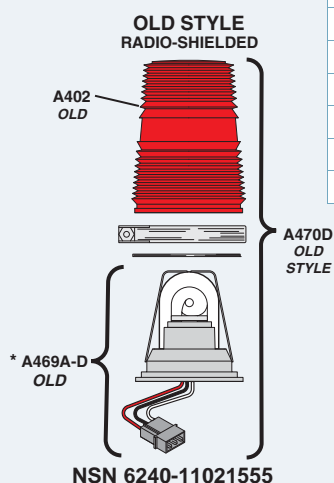
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## A470A Series - Remote Strobe Light (NSN 6220-14807344\*)



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.

Drawing #	Weight	Dimensions H x Dia.	Available colors	Lenses
70019	0.3 lbs. (136gm)	3.50" (88.90mm) x 2.58" (66.53mm)	Red, White Split (Red/White)	Polycarbonate

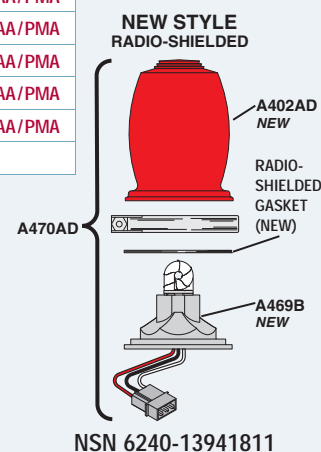


Model #	Part #	Description	VDC	Approvals
A470AR	01-0770019-18	Standard assembly, Red lens <b>NSN (a)</b>	—	<b>FAA/PMA</b>
A470AW	01-0770019-19	Standard assembly, White lens <b>NSN (b)</b>		<b>FAA/PMA</b>
A470AS	01-0770019-20	Standard assembly, split Red/White lens <b>NSN (*)</b>		<b>FAA/PMA</b>
A470ADR	01-0770019-21	Radio-shielded assembly, Red lens		<b>FAA/PMA</b>
A470ADW	01-0770019-22	Radio-shielded assembly, White lens		<b>FAA/PMA</b>
A470ADS	01-0770019-23	Radio-shielded ass'y, split Red/White lens <b>NSN (c)</b>		<b>FAA/PMA</b>
(a) 6220-14851001, (b) 6340-14331362, (c) 6220-13844609				

**NOTE - \* THE A469AD SHIELDED FLASH TUBE ASSEMBLY CAN NOT BE USED WITH:**  
The new A470AD Remote Strobe Head Assembly as shown, the new A402AD Lens, or the new HR,DFA Self-Contained Strobe Light Assembly.

**Note:** 06-190125 is not the part number for the A469B but a mold number, order A469B

See Aviation Installation Guide for more information.



## 10621R - Infrared Strobe Light Lens



10621R is an Infrared Strobe Light Lens only designed to replace multiple Whelen remote strobe and self-contained strobe products. 10621R filters visible light from the conventional Xenon strobe making your ACL product covert for video or night vision viewing. Product applications include Whelen HRCFA, 70285 and A470(A). Dimensions: 3.5" (88.90mm) H x 2.62 (66.54mm) Dia. Contact Factory to order.

Model #	Part #	Description	Approvals
10621R	68-2130024-90	Infrared Strobe Light Lens	—

## H102 & H103 - Adapters (NSN 6220-12099972)



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.

Drawing #	Weight	Dimensions H x W	Dimensions H x W
H102: 30068 H103: 30079	—	H102: 0.15" (3.8mm) x 2.49" (66.24mm)	H103: 1.38" (35.05mm) x 3.69" (93.82mm)

Model #	Part #	Description	Approvals
H102	07-730068-000	Flush mount adapter <b>NSN</b>	FAA/PMA
H103	11-230079-000	Rotating beacon mount adapter	—

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## Model 90482 - LED Anti-Collision/Tail Position Integrated Ground Recognition Light



Model 90482 is a compact and feature added 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 intended for use as a system with 71170 series lighthoods and Model 7123403 Flasher/Current source for complete aircraft coverage. Item does not include interconnect cable for Flasher/Current source.

Drawing #	Weight	Dimensions H x W x D	Current Draw	Available colors	Lenses
90482	0.35 lbs. (159gm)	Exposed Height: 3.60" (91mm) x 1.25" (32mm) x 1.78" (45mm)	Current (7123403): ACL: 0.53A Average, 2.5 a Peak / POS: 0.25a // Ground Rec. 0.15a	Aviation White	Clear Polycarbon- ate

Model #	Part #	Description	Approvals
9048200	01-0790482-00	Aft POS/ACL (White) with GND REC (Red)	FAA TSO C96a / TSO-C30c Type III

## Model 90450 - LED Patented Technology: Redundant Lighting & Onboard Diagnostix™



**With Onboard Diagnostix!** Model 90450 is Whelen's patented "two lights in one" with Diagnostix indication (Tail POS/ACL Light). The most modern inner wing lighting solution on the market today, designed to comply with TSO-C96a Class II (400 ecp) anti-collision light requirements, and TSO-C30c Type III aft position light requirements. The LED's provide a significant reduction in current draw over conventional position light bulbs and strobe power supplies. Whelen LED designs virtually eliminate EMI/RFI interference. Model 90450 analyzes circuit condition and can automatically compensate for any given partial circuit failure. Diagnostix indicator is viewable by ground personnel indicating the assembly is operating in redundant mode. Light remains FAA/TSO compliant during operation in a redundant mode! **All current source and flasher circuitry is contained within the lighthouse.**

Drawing #	Weight	Dimensions H x W x D	Current Draw	Available colors	Lenses
90541	1.3 lbs. (590gm)	5.38" (137mm) x 1.60" (41mm) x 7.17" (182mm)	Current: POS: 0.25 amps / ACL: 0.6 amps Avg, 3.20 amps Peak	Aviation White	None

Model #	Part #	Description	Approvals
904500	01-0790541-00	Redundant LED Aft POS/ACL, 28 VDC	FAA TSO-C96a Class II / TSO-C30c Type III

## 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.

Drawing #	Weight	Dimensions Exposed Height x Diameter	Available colors	Lenses
70024	0.3 lbs. (136gm)	1.7" (43mm x 1.5" (38mm)	Aviation White	Glass

Model #	Part #	Description	VDC	Approvals
A500AV14	01-0770024-00	Vertical mount	14	FAA/PMA, FAA TSO-C30b
A500AV28	01-0770024-01	Vertical mount	28	FAA/PMA, FAA TSO-C30b
A500AH14	01-0770024-02	Horizontal mount	14	FAA/PMA, FAA TSO-C30b
A500AH28	01-0770024-03	Horizontal mount	28	FAA/PMA, FAA TSO-C30b
A500AVD1	01-0770024-04	Vertical mount, radio-shielded	14	FAA/PMA, FAA TSO-C30b
A500AVD2	01-0770024-05	Vertical mount, radio-shielded	28	FAA/PMA, FAA TSO-C30b
A500AHD1	01-0770024-06	Horizontal mount, radio-shielded	14	FAA/PMA, FAA TSO-C30b
A500AHD2	01-0770024-07	Horizontal mount, radio shielded	28	—
A500ASP2	01-0770024-25	Vertical mount, 50" cables	28	no connectors
A500ABV1	01-0770024-16	Beech Special, MS connector	14	—
A500ABV2	01-0770024-15	Beech Special, MS connector	24	—

VERTICAL  
MOUNTING

HORIZONTAL  
MOUNTING



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## Strobe Power Supply Replacement Listing

Old Part Number	Old Model Number	Description	Current Replacement
A413,HS-41-14	HS, 41	Single strobe unit, SingleFlash, 14 VDC, 33 joule	Model HDACF P/N 01-0770028-05
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 A490ATSC P/N 01-0770062-03
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	
A490,TS-28	HTS	Single strobe unit, SingleFlash, 28 VDC	
A490A,TS,DF	HTS-DF	Single strobe unit, DoubleFlash, 14 or 28 VDC	
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	Model A490TCF P/N 01-0770006-08
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	Model A490TCCF P/N 01-0770006-09
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 P/N 01-0770029-( ) Specify lens color R=Red, W=White S=Split Red/White
	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)	

**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 FAA approvals.

## How to Choose a Power Supply and about COMETFLASH®

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 lighthouse 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 lighthouse 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.

## Strobe Power Supplies

### Model HDACF - Strobe Power Supply (NSN 6210-14456688)



Model HDACF Series provides simultaneous flashing, alternate flashing or both. It will operate one, two or three strobe lighthouses. 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 simultaneously 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.

Drawing #	Weight	Dimensions H x W x L	Current Draw
70028	2.1 lbs. (953gm)	2.37" (60mm) x 5.0" (127mm) x 5.50" (140mm)	7.0 amps @ 14 VDC; 3.5 amps @ 28 VDC

Model #	Part #	Description	Approvals
HDACF	01-0770028-05	A413AHDACF power supply	FAA/PMA



### Model A490ATSC - Strobe Power Supply



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.

Drawing #	Weight	Dimensions H x W x L	Current Draw
70062	1.7 lbs. (771gm)	3.06" (78mm) x 3.12" (79mm) x 5.0" (127mm)	4.0 amps @ 14 VDC; 2.0 amps @ 28 VDC

Model #	Part #	Description	Approvals
A490ATSC	01-0770062-03	A490ATSCF power supply	FAA/PMA

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## A490TCF Series - Strobe Power Supplies (NSN 6130-10071195)



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).

Drawing #	Weight	Dimensions H x W x L	Current Draw
70006	1.2 lbs. (544gm)	2.38" (60mm) x 3.12" (79mm) x 5.0" (127mm)	1.7 amps @ 14 VDC; 0.85 amps @ 28 VDC

Model #	Part #	Description	Approvals
A490TCF	01-0770006-08	Standard unit, 20" leads, amp connectors	FAA/PMA
A490TCFM	01-0770006-14	20" leads, Molex connectors	—
7000615	01-0770006-15	20" leads, no connectors	

## A490TCCF Series - Strobe Power Supplies



Before replacement

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.

Drawing #	Weight	Dimensions H x W x L	Current Draw
70006	1.2 lbs. (544gm)	2.38" (60mm) x 3.12" (79mm) x 5.0" (127mm)	1.7 amps @ 14 VDC; 0.85 amps @ 28 VDC

Model #	Part #	Description	Approvals
A490TCCF	01-0770006-09	Standard unit, 20" leads, amp connectors	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)	



After Whelen  
A490TCCF  
replacement

## 90101 Series - Strobe Power Supplies



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

Drawing #	Weight	Dimensions H x W x L	Current Draw
90101	1.7 lbs. (771gm)	3.50" (89mm) x 3.12" (79mm) x 5.0" (127mm)	4 amps @ 14 VDC; 2 amps @ 28 VDC

Model #	Part #	Description	Approvals
9010100	01-0790101-00	24 joule, SingleFlash	FAA TSO-C96a
9010101	01-0790101-01	24 joule, SingleFlash, old style mounting plate	FAA TSO-C96a
9010102	01-0790101-02	24 joule, SingleFlash, w/add on mounting plate	FAA TSO-C96a
9010104	01-0790101-04	34 joule, CometFlash, replaces Grimes 60-2799 when used with mounting brackets	FAA TSO-C96a
9010105	01-0790101-05	34 joule, CometFlash	FAA TSO-C96a

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## 90079 Series - Strobe Power Supplies



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.

Drawing #	Weight	Dimensions H x W x L	Current Draw
90079	2.3 lbs. (1043gm)	2.40" (61mm) x 5.0" (127mm) x 5.50" (140mm)	7 amps @14 VDC; 3.5 amps @28 VDC

Model #	Part #	Description	Approvals
9007904	01-0790079-04	42 joule, CometFlash, replaces Grimes 60-1750-1 & 3	FAA/PMA
9007906	01-0790079-06	42 joule, CometFlash, socket outputs, with add on mounting brackets	—

## Model 90192 - Strobe Power Supply



Model 90192 produces 34 joules of energy in CometFlash®, and can be synchronized with up to 5 other like units by connecting with 18 gauge wire.

Drawing #	Weight	Dimensions H x W x L	Current Draw
90192	2.1 lbs. (953gm)	1.9" (48mm) x .54" (90mm) x 10.13" (257mm)	4 amps @ 14 VDC; 2 amps @ 28 VDC

Model #	Part #	Description	Approvals
9019201	01-0790192-01	Used on JPATS program, replaces Hella #8ES 007 046-01	FAA TSO-C96a

## Model HDHCF - Strobe Power Supply



Model HDHCF provides simultaneous flashing, alternate flashing or both (see HDACF for functions). It directly replaces factory installed units on Hughes 500 Series Helicopters. Unit can directly replace 60-1431 -1 & -3 power supplies without wiring or baseplate modifications. This power supply will operate from 10 to 30 VDC.

Drawing #	Weight	Dimensions H x W x L	Current Draw
70117	2.1 lbs. (953gm)	2.37" (60mm) x 5.0" (127mm) x 5.50" (140mm)	7.0 amps @ 14 VDC; 3.5 amps @ 28 VDC

Model #	Part #	Description	Approvals
HDHCF	01-0770117-01	Power supply A414AHDHCF	FAA/PMA

## Model HDS - Strobe Power Supply



Model HDS produces 20 joules of energy, SingleFlash, alternating between two light assemblies. The SingleFlash allows for a low current draw. This power supply will operate from 10 to 30 VDC.

Drawing #	Weight	Dimensions H x W x L	Current Draw
70169	2.0 lbs. (907gm)	2.37" (60mm) x 5.0" (127mm) x 5.50" (140mm)	4.0 amps @ 14 VDC; 2 amps @ 28 VDC

Model #	Part #	Description	Approvals
HDS1428	01-0770169-03	Power supply A413AHDS	—

## Model C701881 - Strobe Power Supply



Model C701881 produces 15 joules of energy, SingleFlash. It can be synchronized with other like units by connecting with 18 gauge wire. This power supply operates from 10 to 30 VDC. **Beech/ Raytheon P/N - 100-384118-21.**

Drawing #	Weight	Dimensions H x W x L	Current Draw
70188	1.8 lbs. (816gm)	3.06" (78mm) x 3.12" (79mm) x 5.0" (127mm)	1.5 amps @ 14 VDC; 0.75 amps @ 28 VDC

Model #	Part #	Description	Approvals
C701881	01-0770188-00	Power supply	—

## Model C70178 - Strobe Power Supply (NSN 6130-13016144)



Model C70178 produces 20 joules of energy, SingleFlash. This power supply operates from 10 to 30 VDC.

Drawing #	Weight	Dimensions H x W x L	Current Draw
70178	1.5 lbs. (680gm)	3.06" (78mm) x 3.12" (79mm) x 5.0" (127mm)	1.75 amps @ 14 VDC; 0.8 amps @ 28 VDC

Model #	Part #	Description	Approvals
C701781	01-0770178-00	Power supply	—

## Model A1610 - Strobe Power Supply



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

Drawing #	Weight	Dimensions H x W x L	Current Draw
70168	1.5 lbs. (680gm)	4.15" (105mm) x 2.18" (55mm) x 5.18" (132mm)	4 amps @ 14 VDC; 2 amps @ 28 VDC

Model #	Part #	Description	Approvals
A1610TSC	01-0770168-01	Power supply	FAA/PMA

## Model 90099 - Strobe Power Supply



90099 Series produces 24 joules of energy, SingleFlash, to one light assembly. It flashes simultaneously with up to three other like units by connecting with 18 gauge wire. This power supply operates at 28 VDC. It is used on the DeHavilland Dash 8 aircraft.

Drawing #	Weight	Dimensions H x W x L	Current Draw
90099	1.7 lbs. (771gm)	3.12" (79mm) x 3.12" (79mm) x 5.0" (127mm)	2.0 amps @ 28 VDC

Model #	Part #	Description	Approvals
9009900	01-0790099-00	Power supply	FAA/PMA

## Model 70879 - Strobe Power Supply



70879 Series operates up to three (3) strobe lighthead at 36 joules each in CometFlash®. This will provide the light intensity required to meet the current FAA requirement of 400 effective candle-power when used in conjunction with the Whelen A612 lens/flashtube configuration. It can also flash two (2) strobe lights in either alternate or simultaneous mode.

Drawing #	Weight	Dimensions H x W x L	Current Draw
70879	2.6 lbs. (1179gm)	3.00" (76mm) x 5.03" (128mm) x 5.42" (138mm)	2.6 amps average Input Voltage: 28 VDC Nominal

Model #	Part #	Description	Approvals
7087900	01-0770879-00	Strobe power supply	FAA TSO-C96a Class II, III

## Model 70899 - Strobe Power Supply



70899 Series can operate up to two (2) strobe lighthead at 36 joules each in CometFlash. Lights flash alternately.

Drawing #	Weight	Dimensions H x W x L	Current Draw
70899	1.8 lbs. (816gm)	3.00" (76mm) x 5.03" (128mm) x 5.42" (138mm)	2.4 amps avg. Input Voltage: 28 VDC Nominal

Model #	Part #	Description	Approvals
7089900	01-0770899-00	Strobe power supply	FAA TSO-C96a Class II, III

## Model 70888 - Strobe Power Supply



Model 70888 operates one (1) strobe lighthead 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.

Drawing #	Weight	Dimensions H x W x L	Current Draw
70888	1.3 lbs. (590gm)	3.00" (76mm) x 3.12" (79mm) x 5.00" (127mm)	1.6 amps average Input Voltage: 28 VDC Nominal

Model #	Part #	Description	Approvals
7088800	01-0770888-00	Strobe power supply	FAA TSO-C96a Class II, III



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## 90613 Series - All LED Position/ACL/GND REC Light Assembly



Cessna Caravan mounting

90613 Series is an LED POS/ACL/GND REC assembly with Integrated Red LED Ground Recognition lights or IR Covert Mode. Model 90613 ships with 12" cable wiring into an amp connector. Available in 28 VDC only.

Drawing #	Weight	Dimensions H x W x L	Current Draw	LED Colors	Lenses
90613	0.81 lbs (367gm) & 0.77 lbs (349gm)	Exposed Height: 2.01" (50.8mm) x 1.77" (44.96mm) x 5.61" (142.49mm)	(See 71457) 0.3 Amps Fwd & Aft Pos 0.85 Amps Average ACL	POS: Red, Green & White ANTI-COL: White GRD REC: Red	Clear Hardcoated Polycarbonate

Model #	Part #	Description	Approvals
9061301	01-0790613-01	LED FWD/AFT POS/ACL, Green, GND/REC, 28 VDC	FAA TSO-C96a Class II / TSO-C30c Types II & III
9061302	01-0790613-02	LED FWD/AFT POS/ACL, Red, GND/REC, 28 VDC	FAA TSO-C96a Class II / TSO-C30c Types I & III
9061303	01-0790613-03	LED FWD/AFT POS/ACL, Green, GND/REC, 28 VDC	FAA TSO-C96a Class II / TSO-C30c Types II & III
9061304	01-0790613-04	LED FWD/AFT POS/ACL, Red, GND/REC, 28 VDC	FAA TSO-C96a Class II / TSO-C30c Types I & III
9061391	01-0790613-91	Caravan Cessna mounting, Green	FAA TSO-C96a Class II / TSO-C30c Types I & III
9061392	01-0790613-92	Cessna Caravan mounting, Red	FAA TSO-C96a Class II / TSO-C30c Types I & III

## 90400 Series - All LED Position/ACL Light Assembly



White LED's with Clear Lens



90400 Series is a Self-Contained, all LED Forward & Aft Position and White Anti-Collision light (POS/ACL) assembly. Interconnect with standard Amp Mate-N-Lock® connectors (A447 Style). Designed as the smallest, all-LED, fixed wing compliant POS/ACL light in the market. Models -91 & -92 available to fit hole pattern of Cessna Caravan (below). Models available in 14 and 28 VDC. Lighthouse Dimensions: 6.60" (168mm) Long, 1.83 (46mm) Wide, Exposed Height, 2.22" (56mm)

Drawing #	Weight	Dimensions H x W x L	Current Draw	Current Source	Lenses
90400	1.0 lbs. (454gm)	3.50 (89mm) x 1.11" (28mm) x 3.59" (91mm)	ACL: 0.87A Average, 4.0 a Peak // POS: 0.5a	Current Source / Flasher Box (Attached)	Clear Polycarbonate

Model #	Part #	Description	Approvals
9040011	01-0790400-11	LED Position/Anti-Coll, 14 VDC (Green)	FAA TSO-C96a Class II / FAA TSO-C30c Types II & III
9040012	01-0790400-12	LED Position/Anti-Coll, 14 VDC (Red)	FAA TSO-C96a Class II / FAA TSO-C30c Types I & III
9040021	01-0790400-21	LED Position/Anti-Coll, 28 VDC (Green)	FAA TSO-C96a Class II / FAA TSO-C30c Types II & III
9040022	01-0790400-22	LED Position/Anti-Coll, 28 VDC (Red)	FAA TSO-C96a Class II / FAA TSO-C30c Types I & III
9040091	01-0790400-91	LED Pos./Anti-Coll, 28 VDC, Cessna Caravan (Green)	FAA TSO-C96a Class II / FAA TSO-C30c Types II & III
9040092	01-0790400-92	LED Pos./Anti-Coll, 28 VDC, Cessna Caravan (Red)	FAA TSO-C96a Class II / FAA TSO-C30c Types I & III

## 90588 - LED Wingtip Anti-Collision Light



90588 is a drop-in replacement for Goodrich GE16846-1 (Citation 680 & Citation X style) producing 400 Effective Candela and 180 degrees of coverage. Unit recesses into Wingtip for a flush mounting. Unit ships with MS27508EA98P Connector integrated into the self-contained assembly. 28 VDC Only.

Drawing #	Weight	Dimensions H x W x L	Current Draw	Available LED colors	Lenses
90588	1.0 lbs (454gm)	1.07" (27.18mm) (Exposed) x 3.85" (97.79mm) (Recessed) x 4.41" (112.01mm) (Recessed) Mounting Face Dimensions: 5.75" x 2.18" (140 x 55mm)	0.85 Amps Average	Aviation White	Clear Polycarbonate

Model #	Part #	Description	Approvals
9058800	01-0790588-00	LED Anti-Collision Light, 28 VDC	FAA TSO-C96a Class II

# STROBE to LED REPLACEMENT

**Model A470AS  
Strobe**



2.65"  
(67mm)

**Model A470AR  
Strobe**



2.65"  
(67mm)

**LEDs**  
LEDs have direct  
DC voltage hook-up,  
without any need  
for a power supply!

**mounting  
position  
fits**



**Model 90520  
LED**  
01-0790520-01 (28 VDC)  
01-0790520-51 (14 VDC)  
Fixed wing  
Class III

or



**Model 71080  
LED**  
01-0771080-01 (28 VDC)  
01-0771080-51 (14 VDC)  
All Red Helicopter  
Class I  
and  
Fixed Wing Aircraft  
Class III

2.6"  
(66mm)

**Model HR,CFA  
Strobe**  
(with integrated  
"self-contained"  
strobe power  
supply)



3.7"  
(94mm)

**mounting  
position  
fits**



**Model 90520  
LED**  
01-0790520-05 (28 VDC)  
01-0790520-55 (14 VDC)



**Model A440  
19-130074-009**  
Ring usually  
installed  
inward

or



**Model 71080  
LED**  
01-0771080-05 (28 VDC)  
01-0771080-55 (14 VDC)  
All Red Helicopter  
and others

3.74"  
(95mm)

**WHELEN®**

ENGINEERING COMPANY, INC.

AVIATION DIVISION

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90361 Series - Call Factory



90433, 71141 -HBC



90406, 71125 - LED Landing System



71125 - G-IIB



71265, 71080, 71110, A109



71105 - Learjet



71141, 71110 - RMD Wingtip



71170 - Diamond



71011, B206



90352 - S76D



71141, 90349 - Evektor



71110, 71080, B206



LED "Specialized Landing/Taxi"



71125 Flight Design



LED "Wing Leading Edge Landing/Taxi"



90400 - Cessna 162



90358 - Cirrus



70513, 70875, Firescout

# Self-Contained Fuselege/Tail Section

## 90520 Series - LED Flashing Beacon (Red & White LED's)



90520 Series Beacons are FAA TSO compliant 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 7090004, -05 Series LED beacons.

Drawing #	Weight	Dimensions H x Dia.	Current Draw	Available <i>Split</i> LED Color	Lenses
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

Model #	Part #	Description	Approvals
9052001	01-0790520-01	LED Red/White, 28 VDC, 2.75" mount	FAA TSO-C96a Class III
9052051	01-0790520-51	LED Red/White, 14 VDC, 2.75" mount	FAA TSO-C96a Class III
9052004	01-0790520-04	LED Red/White, 28 VDC & 5 hole mount	FAA TSO-C96a Class III
9052014	01-0790520-14	LED Red/White, 28 VDC & 5 hole, lower mount	FAA TSO-C96a Class III
9052005	01-0790520-05	LED Red/White, 28 VDC, 3.75" adapter	FAA TSO-C96a Class III
9052015	01-0790520-15	LED Red/White, 28 VDC, 3.75" adapter, lower mount	FAA TSO-C96a Class III
9052007	01-0790520-07	LED Red/White, 28 VDC, 3.75" adapter, MS Connector	FAA TSO-C96a Class III
9052017	01-0790520-17	LED Red/White, 28 VDC, 3.75" adapter, lower mount, MS Connector	FAA TSO-C96a Class III
9052008	01-0790520-08	LED Red/White, 28 VDC & 5 hole mount	FAA TSO-C96a Class III
9052018	01-0790520-18	LED Red/White, 28 VDC & 5 hole, lower mount	FAA TSO-C96a Class III
9052055	01-0790520-55	LED Red/White beacon, 14 VDC (3.75" adapt., flying leads)	FAA TSO-C96a Class III

## HRCFA Series - Strobe Anti-Collision Light (NSN 6220-13639713)



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° 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" (95mm) 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.

Drawing #	Weight	Dimensions H x Dia.	Current Draw	Available Colors & <i>Split</i> Color	Lenses
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	Hardcoated Polycarbonate

Model #	Part #	Description	Approvals
HRCFAR	01-0770029-29	Standard assembly, Red lens <b>NSN</b>	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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## 71080 Series - LED Beacon for Rotorcraft



71080 Series has Red LED's with Clear Lens



71080 Series Beacons are FAA TSO compliant 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, -14, -15, -20, -51, -55: 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.

Drawing #	Weight	Dimensions H x Dia.	Current Draw	Available LED Color	Lenses
71080	0.65 lbs. (295gm) (-01 & -51)	Exposed height, 3.74" (95mm) (-01 & 51) x 2.6" (66mm)	0.87 amps average, 3.0 amps peak 150 eff. Cd 14 VDC & 28 VDC	Aviation Red	Clear polycarbonate

Model #	Part #	Description	Approvals
7108001	01-0771080-01	LED Red, 28 VDC, 2.6" mount	FAA TSO-C96a Class I
7108051	01-0771080-51	LED Red, 14 VDC, 2.6" mount	FAA TSO-C96a Class I
7108004	01-0771080-04	LED Red, 28 VDC & 5-Hole mount	FAA TSO-C96a Class I
7108014	01-0771080-14	LED Red, 28 VDC & 5-Hole, lower mount	FAA TSO-C96a Class I
7108005	01-0771080-05	LED Red, 28 VDC, 3.75" adapter	FAA TSO-C96a Class I
7108055	01-0771080-55	LED Red, 14 VDC, 3.75" adapter, Flying Leads	FAA TSO-C96a Class I
7108015	01-0771080-15	LED Red, 28 VDC, 3.75" adapter, lower mount	FAA TSO-C96a Class I
7108007	01-0771080-07	LED Red, 28 VDC, 3.75" adapter, MS Conn.	FAA TSO-C96a Class I
7108017	01-0771080-17	LED Red, 28 VDC, 3.75" adapter, lower mount, MS Conn.	FAA TSO-C96a Class I
7108008	01-0771080-08	LED Red, 28 VDC & 5 hole mount, MS Conn.	FAA TSO-C96a Class I
7108018	01-0771080-18	LED Red, 28 VDC & 5 hole, lower mount, MS Conn.	FAA TSO-C96a Class I



## 71485 Series - Covert IR / Red LED Combination Beacon



White LED's with Clear Lens



71485 Series is a combination Aviation Red visible and IR (Infrared) flashing beacon. Produced as a derivative of our Models 71080 & 90520, there is no TSO available for this product. 71485 can be surface mounted in an area as small as 2.6" or has an adapter to drop into a 3.75" recessed mount commonly found. Nominal IR LEDs at 875nm. Unit ships with 18" flying leads and independent control for Red and IR LED packages. Surface mount unit & additional models are not listed, contact factory. Complies with FAA TSO C96a Class III.

Drawing #	Weight	Dimensions H x W	Current Draw	Available LED colors	Lenses
7148500	0.760 lbs (345gm) (with 3.75" Adapter)	Exp. Height (-00): 3.92" (99.56mm) x Base Width (-00): 3.66" (92.96mm)	0.3 Amps Avg. Red / 0.12 Amps Average IR	Aviation Red & IR	Clear Hardcoated Polycarbonate
7148501	0.65 lbs (295gm)	Exp. Height (-01): 3.74" (94.99mm) x Base Width (-01): 2.6" (66.04mm)			

Model #	Part #	Description	Approvals
7148500	01-0771485-00	LED Red & IR Special ACL, 28 VDC	—
7148501	01-0771485-01	LED Red & IR Special ACL, 28 VDC	
7148502	01-0771485-02	LED Red & IR Special ACL, 28 VDC	
7148503	01-0771485-03	LED Red & IR Special ACL, 28 VDC	
7148504	01-0771485-04	LED Red & IR Special ACL, 9-Hole, 28 VDC	

**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 FAA approvals.

## 71055 Series LED Beacon



71055 Series Beacons are FAA TSO compliant 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.

Drawing #	Weight	Dimensions H x Dia.	Current Draw	Lens	Lens
71055	0.52 lbs. (236gm)	Exposed Height: 3.09" (78mm) x Exposed Diameter: 2.60" (66mm)	01-0771055-00 - 1.2 amps Avg. / 01-0771055-01 - 0.6 amps Avg.	Aviation Red	Clear Polycarbonate

Model #	Part #	Description	Approvals
7105500	01-0771055-00	LED beacon, 14 VDC, Red	FAA TSO-C96a Class III
7105501	01-0771055-01	LED beacon, 28 VDC, Red	FAA TSO-C96a Class III

## 71410 Series - (15 & 05) White LED Anti-Collision Beacon



71410 LED White Anti-Collision Beacons are FAA TSO compliant and self-contained (unit meets rotorcraft minimum ACL standards Class I, 150 effective Cd). They are designed to replace 3-3/4" 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 28VDC only. (TSO-C96a, Class III Approved)

Drawing #	Weight	Dimensions H x Dia.	Current Draw	LED Color	Lens
71410	0.75lbs (340.19gm)	Exposed Height: 3.4" (86.36mm) x 3.60" (91.44mm)	0.32Amps	Aviation White	Clear Polycarbonate

Model #	Part #	Description	Approvals
7141005	01-0771410-05	LED Anti-Collision, White Upper 3.75" Mount, 28 VDC	FAA TSO-C96a Class III
7141015	01-0771410-15	LED Anti-Collision, White Lower 3.75" Mount, 28 VDC	FAA TSO-C96a Class III
7141001	01-0771410-01	LED Anti-Collision, White Upper 2.5" Mount, 28 VDC	FAA TSO-C96a Class III
7141007	01-0771410-07	LED Anti-Collision, White 3.75" with MS Connector, Upper Mount, 28 VDC	FAA TSO-C96a Class III
7141017	01-0771410-17	LED Anti-Collision, White 3.75" with MS Connector, Lower Mount, 28 VDC	FAA TSO-C96a Class III
7141008	01-0771410-08	LED Anti-Collision, White 5" Plate with MS Connector, Upper Mount, 28 VDC	FAA TSO-C96a Class III
7141018	01-0771410-18	LED Anti-Collision, White 5" Plate with MS Connector, Lower Mount, 28 VDC	FAA TSO-C96a Class III

## Model 71460 - Blue LED Flashing Identification Beacon



Model 71460 is a Blue LED flashing beacon that fits the 5-hole mounting pattern common to rotorcraft. Unit is designed and follows the manufacturing/quality practices of 71080 and 90520 TSO'd Anti-Collision lights. No FAA certifications for blue beacons. Unit ships with D38999 Series connector integrated.

Drawing #	Weight	Dimensions H x Dia.	Current Draw	LED Color	Lens
71460	0.84 lbs (381gm)	Exposed Height: 3.74" (95mm) x Mounting Diameter: 5.14" (130.56mm)	0.67Amps	Blue	Clear Polycarbonate

Model #	Part #	Description	Approvals
7146001	01-0771460-01	Blue LED Identification Light, 28 VDC	—

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## Model 71670 - Red LED Anti-Collision (RO)



Model 71670 is a dual-mode red Anti-Collision Light with a reduced output feature. In 'normal' mode the beacon will flash at 100% output and functions much like model 71080. In "reduced output power" mode the LED flashing is pulse-width modulated to less than 20% light output.

Drawing #	Weight	Dimensions H x Dia.	Current Draw	LED Color	Lens
71670	0.65lbs (295gm)	Exposed Height: 3.74" (95mm) x Base Diameter: 2.6" (66.04mm)	0.67 Amps Avg	Aviation Red	Clear Polycarbonate

Model #	Part #	Description	Approvals
7167001	01-0771670-01	LED Red ACL with reduced output & Sync, 28 VDC	—

## Model SACF - CometFlash® Anti-Collision Strobe Light



SACF Series Self-Contained CometFlash Strobe Anti-Collision light which utilizes the same power supply & housing as the Model HRCFA. It uses an Aviation White glass lens only, ideal for agricultural applications where chemicals are used. Because the lens has no optics built-in, it produces 300 effective candlepower. It uses a 3-3/4" dia. mounting hole. Fuselage installation requires the A440 mounting adapter. Operates between 10 to 30 VDC.

Drawing #	Weight	Dimensions H x Dia.	Current Draw	Color	Lens
70030	1.5 lbs. (680gm)	5.50" (140mm) x 3.7" (94mm)	3.2 amps @ 14 VDC, 1.6 amps @ 28 VDC	Clear	Clear Polycarbonate

Model #	Part #	Description	Approvals
SACF	01-0770030-01	Aviation White lens	—

## A440 - Mounting Adapter



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

Drawing #	Model #	Part #	Description	Approvals
30074	A440	19-130074-009	Mounting adapter	FAA/PMA

## 90081 Series - Halogen Flashing Anti-Collision Light



90081 Series is a Self-Contained, 150 Watt, Halogen Flashing Anti-Collision light. It uses a 3-3/4" (95mm) diameter rotating beacon mounting hole. -01 and -02 units are supplied with the A440 mounting adapter. 28 VDC Only.

Drawing #	Weight	Dimensions H x Dia.	Current Draw	Available colors	Lenses
90081	1.3 lbs. (590gm)	4.0" (102mm) x 3.7" (94mm)	5.5 amps @ 28 VDC	Aviation Red	Polycarbonate

Model #	Part #	Description	Approvals
9008100	01-0790081-00	Vertical fin mount	FAA/PMA
9008101	01-0790081-01	Upper fuselage mount	FAA/PMA
9008102	01-0790081-02	Lower fuselage mount	FAA/PMA

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## 70509 Series - Halogen Flashing Anti-Collision Light



50519



70509 Series is a Self-Contained Halogen Flashing Anti-Collision light with the same mounting pattern as the factory installed beacon on single engine Cessnas 1967 & later. Available in three different lens colors: Aviation Red, Aviation White and split Aviation Red/White. When used in conjunction with the Model 50519 mounting adapter, it can replace rotating beacons with the 3-3/4" (95mm) dia. mounting hole. **Note:** Not recommended for installation on helicopters or twin engine aircraft.

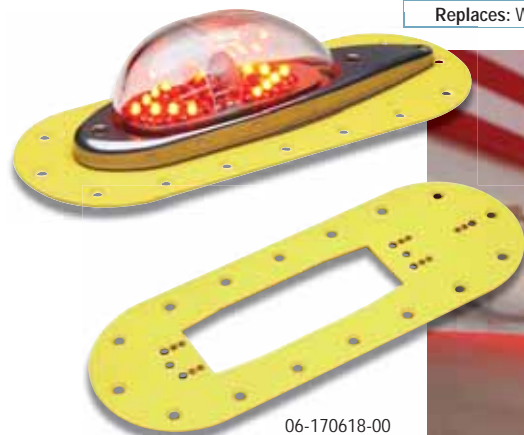
Drawing #	Weight	Dimensions H x Dia.	Current Draw	Available Colors & Split Colors	Lenses
70509	0.27 lbs. (122gm)	3.75" (95mm) x 2.65" (67mm)	2.7 amps @ 14 VDC, 1.3 amps @ 28 VDC	Aviation Red Aviation White Aviation Red/White	Hardcoat Polycarbonate

Model #	Part #	Description	Approvals
7050900	01-0770509-00	14 VDC, Red lens	FAA TSO-C96a
7050901	01-0770509-01	14 VDC, White lens	FAA TSO-C96a
7050902	01-0770509-02	14 VDC, Red/White lens	FAA TSO-C96a
7050903	01-0770509-03	28 VDC, Red lens	FAA TSO-C96a
7050904	01-0770509-04	28 VDC, White lens	FAA TSO-C96a
7050905	01-0770509-05	28 VDC, Red/White lens	FAA TSO-C96a
7050907	01-0770509-07	Cessna single engines	FAA TSO-C96a
50519001	11-350519-001	Optional mounting adapter	—

## 90088 Series - LED Anti-Collision Light



Red LED's  
with Clear Lens



06-170618-00

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.

Drawing #	Weight	Dimensions Exposed H x W x L	Current Draw	Available colors	Lenses
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) -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

Model #	Part #	Description	Approvals
9008811	01-0790088-11	Lower, 5 hole, standard assembly, cable pigtail, 28 VDC	FAA TSO-C96a Class III
9008812	01-0790088-12	Upper, 5 hole, standard assembly, cable pigtail, 28 VDC	FAA TSO-C96a Class III
9008813	01-0790088-13	Upper, 5 hole, 2.25 lbs. rudder mount (Citations), 28 VDC	FAA TSO-C96a Class III
9008814	01-0790088-14	Upper, 5 hole, 2.25 lbs. cable pigtail (Beech Barons), 28 VDC	FAA TSO-C96a Class III
9008815	01-0790088-15	Lower, 5 hole, (MS27508E10A-5P connector), 28 VDC	FAA TSO-C96a Class III
9008816	01-0790088-16	Upper, 5 hole, (MS27508E10A-5P connector), 28 VDC	FAA TSO-C96a Class III
9008817	01-0790088-17	Lower, 5 hole, 2 drain holes (Hawker 800), 28 VDC	FAA TSO-C96a Class III
9008818	01-0790088-18	Upper, 8 hole, 1.9 lbs, cable pigtail, 28 VDC	FAA TSO-C96a Class III
9008819	01-0790088-19	Lower, 8 hole, 1.9 lbs, cable pigtail, 28 VDC	FAA TSO-C96a Class III

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



## 90044 Series - Quartz Halogen Flashing Anti-Collision Light



5-HOLE



8-HOLE

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 H x W x L	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) 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-()

To determine model required for replacement, the following information is needed: Lens color (Red or White), upper or lower mounting location, number of mounting holes (5, 8, or 9), weight and Position installed. Beacons installed on the rudder, (example: Citations and Barons) require a 2.25 lb. assembly. Top replacement on GII and GIII require 9004401 or 9004402 in conjunction with the 16 hole mounting plate, P/N 06-170618-00 (shown on page 32, bottom left).

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

### WHELEN 90088 CROSS REFERENCE LIST

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

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## 90033 Series - Self-Contained Light Assemblies

90033 Series is a 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.



2 HOLE MOUNTING



5 HOLE ROUND MOUNTING

5 HOLE MOUNTING



8 HOLE MOUNTING



Model #	Part #	Lens Color	Mount	Base	Description / Remarks	Approvals
900331	01-0790033-01	Red	lower	2 hole	Standard unit, 18" cable, no connector	FAA TSO-C96a
900332	01-0790033-02	White	lower	2 hole	Standard unit, 18" cable, no connector	FAA TSO-C96a
900333	01-0790033-03	Red	lower	8 hole	18" cable, AMP #207846-1, 2 Position connector	FAA TSO-C96a
900334	01-0790033-04	White	lower	8 hole	18" cable, AMP #207846-1, 2 Position connector	FAA TSO-C96a
900335	01-0790033-05	Red	upper	5 hole	18" cable, AMP #207846-1, 2 Position connector	FAA TSO-C96a
900336	01-0790033-06	White	upper	5 hole	18" cable, AMP #207846-1, 2 Position connector	FAA TSO-C96a
900335D	01-0790033-5D	Red	lower	5 hole	18" cable, AMP #207846-1, 2 Position connector	FAA TSO-C96a
900336D	01-0790033-6D	White	lower	5 hole	18" cable, AMP #207846-1, 2 Position connector	FAA TSO-C96a
900337	01-0790033-07	Red	lower	round	5.12" dia. mounting base, MS3102R10SL-3P connector	FAA TSO-C96a
900338	01-0790033-08	White	lower	round	5.12" dia. mounting base, MS3102R10SL-3P connector	FAA TSO-C96a
900339	01-0790033-09	Red	lower	8 hole	18" cable, AMP #208530-1, 8 Position connector	FAA TSO-C96a
9003310	01-0790033-10	White	lower	8 hole	18" cable, AMP #208530-1, 8 Position connector	FAA TSO-C96a
9003311	01-0790033-11	Red	upper	5 hole	AMP #1-480698-0, 2 Position connector	FAA TSO-C96a
9003312	01-0790033-12	White	upper	5 hole	AMP #1-480698-0, 2 Position connector (Beech 1900)	FAA TSO-C96a
9003313	01-0790033-13	Red	upper	2 hole	No connector, 13" leads (Cessna CJ1, CJ2)	FAA TSO-C96a
9003314	01-0790033-14	White	upper	2 hole	No connector, 13" leads	FAA TSO-C96a
9003317	01-0790033-17	Red	upper	2 hole	AMP #207846-1, 2 Position connector with masked lens	FAA TSO-C96a
9003319	01-0790033-19	Red	lower	2 hole	AMP #207846-1, 2 Position connector	FAA TSO-C96a
9003323	01-0790033-23	Red	lower	8 hole	AMP #207567-1, 3 Position connector	FAA TSO-C96a
9003324	01-0790033-24	White	lower	8 hole	AMP #207567-1, 3 Position connector (Beech 1900)	FAA TSO-C96a
9003325	01-0790033-25	Red	upper	5 hole	MS3102R10SL-3P connector on mounting bracket (Beech Jet)	FAA TSO-C96a
9003326	01-0790033-26	White	upper	5 hole	MS3102R10SL-3P connector on mounting bracket (Beech Jet)	FAA TSO-C96a
9003329	01-0790033-29	Red	upper	5 hole	Master unit, no connector	FAA TSO-C96a
9003330	01-0790033-30	White	upper	5 hole	Master unit, no connector (Fairchild)	FAA TSO-C96a
9003332	01-0790033-32	White	lower	2 hole	Slave unit, no connector (Fairchild)	FAA TSO-C96a
9003333	01-0790033-33	Red	upper	5 hole	18" cable, no connector	FAA TSO-C96a
9003334	01-0790033-34	White	upper	5 hole	18" cable, no connector	FAA TSO-C96a
9003338	01-0790033-38	White	upper	2 hole	Slave unit, masked (Beech Baron) used with 90044-53 master unit	FAA TSO-C96a
9003344	01-0790033-44	White	upper	2 hole	AMP #207846-1, 2 Position connector	FAA TSO-C96a

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## 90350 Series - Self-Contained **LED** Ground Recognition Light Assembly



Red LED's  
with Red Lens



90350 Series is a Self-Contained All LED Ground Recognition light assembly. The design is intended to provide a solution to the needs for ground recognition lighting on a wide variety of aircraft. All current source and flasher circuitry is contained within the base plate. Unit is flush mounted to aircraft surface eliminating the need for large cutouts in the aircraft structure. Item ships with flying leads.

Drawing #	Weight	Dimensions H x W x L	Current Draw	Available LED colors	Lenses
90350	0.2 lbs. (91gm)	Exposed Height: 1.48" (38mm) x Exposed Width: 1.64" (42mm) x Exposed Length: 4.61" (117mm)	0.28 amps Avg. @ 28 VDC	Red	Red, Hardcoated Polycarbonate

Model #	Part #	Description	Approvals
9035000	01-0790350-00	Red, 28 VDC	—

Self-Contained Fuselage/Tail Section



**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 FAA approvals.

## Forward/Rear Position & Tail Section

### 71105 Series - LED Position Light Assembly



71105 Series are fully FAA TSO compliant Forward Position lights. LED's provide a significant reduction in electrical current draw over conventional light bulbs. Direct replacement for Whelen Model W1285 Series (Version STC'd on Learjet Aircraft).

Drawing #	Weight	Dimensions H x W x L	Current Draw	Available LED colors	Lenses
71105	0.20 lbs. (91gm) 14 VDC 0.25 lbs. (113gm) 28 VDC	Exposed Height: 1.08" (27.43mm) x 1.77" (44.95mm) x 3.88" (98.55mm)	0.25 amps @ 14 VDC or 28 VDC	Aviation Red, Aviation Green	Clear Polycarbonate

Model #	Part #	Description	Approvals
7110501	01-0771105-01	Position Green, 14 VDC	FAA TSO-C30c Type II
7110502	01-0771105-02	Position Red, 14 VDC	FAA TSO-C30c Type I
7110503	01-0771105-03	Position Green, 28 VDC	FAA TSO-C30c Type II
7110504	01-0771105-04	Position Red, 28 VDC	FAA TSO-C30c Type I

### W1285 Series - Wingtip Position Light (NSN 6220-13900750/-330)



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.

Drawing #	Weight	Dimensions H x L	Current Draw	Available colors	Lenses
70001	0.2 lbs. (91gm)	1.25" (32mm) x 4" (102mm)	2 amps @ 14 VDC 1 amp @ 28 VDC	Aviation Red Aviation Green	Glass

Model #	Part #	Description	Approvals
W1285PG1	01-0770001-41	14 VDC, Position Green	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 Red NSN (-330)	FAA TSO-C30b Type I

### 71015 Series - LED Forward Position Lights



71015 Series are FAA TSO approved 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.

Drawing #	Weight	Dimensions H x L	Current Draw	Available LED colors	Lenses
71015	0.2 lbs. (91gm)	Exposed Height: 1.33" (34mm) x 2.41" (61mm)	0.3 amps @ 28 VDC	Aviation Red Aviation Green	—

Model #	Part #	Description	Approvals
7101501	01-0771015-01	Green Position light, 28 VDC	FAA TSO-C30c Type II
7101502	01-0771015-02	Red Position light, 28 VDC	FAA TSO-C30c Type I

## 71379 Series - LED Forward Position Light



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

Drawing #	Weight	Dimensions H x W x L	Current Draw	Available LED colors	Lenses
71379	0.5lbs (227gm)	Exposed Height: 1.25" (31.75mm) x 1.75" (44.45mm) x 2.31" (58.67mm)	0.3 Amps @28 VDC	Aviation Red, Aviation Green	Clear Polycarbonate

Model #	Part #	Description	Approvals
7137901	01-0771379-01	LED Forward POS (Green), 28 VDC	FAA TSO-C96a, TSO-C30c Types II
7137902	01-0771379-02	LED Forward POS (Red), 28 VDC	FAA TSO-C96a, TSO-C30c Types I
7137911	01-0771379-11	LED Forward POS (Green), 14 VDC	FAA TSO-C96a, TSO-C30c Types II
7137912	01-0771379-12	LED Forward POS (Red), 14 VDC	FAA TSO-C96a, TSO-C30c Types I

## W1250 Series - Wingtip Position Light (NSN 6220-14639825/-24)



W1250 Series Wingtip Position light is designed for use under a wingtip fairing. It uses a 26 Watt incandescent lamp and is a direct replacement for the brand "G" A1815A Series. Specify 14 or 28 VDC.

Drawing #	Weight	Dimensions H x L	Current Draw	Available colors	Lenses
70082	0.3 lbs. (136gm)	1.25" (32mm) x 2.75" (70mm)	2 amps @ 14 VDC, 1 amp @ 28 VDC	Aviation Red, Aviation Green	Glass

Model #	Part #	Description	Approvals
W1250PR1	01-0770082-00	Position Red, 14 VDC	FAA TSO-C30b Type I
W1250PR2	01-0770082-01	Position Red, 28 VDC NSN (-24)	FAA TSO-C30b Type I
W1250PG1	01-0770082-02	Position Green, 14 VDC	FAA TSO-C30b Type II
W1250PG2	01-0770082-03	Position Green, 28 VDC NSN (-25)	FAA TSO-C30b Type II

## 70963 Series - LED Forward Position Lights



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.

Drawing #	Weight	Dimensions H x Dia.	Current Draw	Available LED colors	Lenses
70963	0.25 lbs. (113gm)	Exposed Height: 1.98" (50mm) x 2.10" (53mm)	0.3 amps @ 28 VDC Input Voltage: 22-30 VDC	Aviation Red, Aviation Green	—

Model #	Part #	Description	Approvals
7096303	01-0770963-03	Green Position light	FAA TSO-C30c Type II
7096304	01-0770963-04	Red Position light	FAA TSO-C30c Type I

CONTACT FACTORY FOR CUSTOM CONFIGURATIONS



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## 90377 Series LED Position Light Assembly



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. 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.

Drawing #	Weight	Dimensions H x W x L	Current Draw	Available Lens colors	Lenses
90377	0.35 lbs. (159gm)	Exposed Height: 1.08" (27mm) x Exposed Width: 1.87" (47mm) x Exposed Length: 5.69" (145mm)	0.5 amps @14 VDC 0.25 amps @28 VDC	Aviation Red, Aviation Green and Aviation White	Clear Hardcoated Polycarbonate

Model #	Part #	Description	Approvals
9037701	01-0790377-01	Position Green, 14 VDC	FAA TSO-C30c Types II & III
9037702	01-0790377-02	Position Red, 14 VDC	FAA TSO-C30c Types I & III
9037703	01-0790377-03	Position Green, 28 VDC	FAA TSO-C30c Types II & III
9037704	01-0790377-04	Position Red, 28 VDC	FAA TSO-C30c Types I & III

## A675 Series



A675 Series Wingtip Position (red/green) and Taillight (white) is designed to eliminate the need for a tail mounted position light. It uses a 26 Watt incandescent lamp for the Forward Position light and a 25 Watt halogen for the Tail Position light. Specify 14 or 28 VDC.

Drawing #	Weight	Dimensions H x W x L	Current Draw	Available Lens colors	Lenses
90009	0.5 lbs. (227gm)	Exposed Height: 1.08" (27.43mm) x Exposed Width: 1.83" (46.48mm) x Exposed Length: 5.63" (143mm)	4 amps @ 14 VDC 2 amps @ 28 VDC	Aviation Red, Aviation Green and Aviation White	Glass

Model #	Part #	Description	Approvals
A675PG14	01-0790009-01	Position Green, 14 VDC	FAA TSO-C30b Type II & III
A675PR14	01-0790009-02	Position Red, 14 VDC	FAA TSO-C30b Type I & III
A675PG28	01-0790009-03	Position Green, 28 VDC	FAA TSO-C30b Type II & III
A675PR28	01-0790009-04	Position Red, 28 VDC	FAA TSO-C30b Type I & III



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## 71554 Series

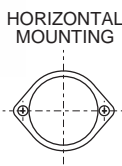


71554 Series in our newest LED Tail Position Light. Exact Footprint for Whelen Models A555A and 71011 Tail lights. Available in horizontal or vertical mount. Models -01 and -02 come with flying leads. Model -03 has a pin and a ring terminal for connections.

Drawing #	Weight	Dimensions H x W x L	Current Draw	Available LED colors	Lenses
71554	.14 lbs. (64gm)	Exposed Height: 1.4" (35.56mm) x 1.59" (40.38mm) x 2.07" (52.57mm)	.13 A @ 28 VDC	Aviation White	Clear Hardcoated Polycarbonate

Model #	Part #	Description	Approvals (Pending)
7155401	01-0771554-01	Horizontal mount, 28 VDC	FAA TSO-C30c Type III
7155402	01-0771554-02	Vertical mount, 28 VDC	FAA TSO-C30c Type III
7155403	01-0771554-03	Vertical mount (Cessna), 28 VDC	FAA TSO-C30c Type III
7155411	01-0771554-11	Horizontal mount, 14 VDC	—
7155412	01-0771554-12	Vertical mount (Cessna), 14 VDC	—

## A555A Series - Tail Position Light (NSN 6220-14639826)



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 VDC or 28 VDC. Replaces the brand "G" A2064 Series.

Drawing #	Weight	Dimensions H x W x D	Current Draw	Available Colors	Lenses
70034	0.1 lbs. (45gm)	Exposed Height: 1.4" (35.36mm) x 1.71" (43.43 mm) x 2.17" (55.11mm) Mounting Hole Pattern: 1.75" (45mm)	2 amps @ 14 VDC, 1 amp @ 28 VDC	Aviation White	Glass

Model #	Part #	Description	Approvals
A555AV14	01-0770034-00	Vertical mounting, 14 VDC	FAA TSO-C30b Type III
A555AV28	01-0770034-01	Vertical mounting, 28 VDC <b>NSN</b>	FAA TSO-C30b Type III
A555AH14	01-0770034-02	Horizontal mounting, 14 VDC	FAA TSO-C30b Type III
A555AH28	01-0770034-03	Horizontal mounting, 28 VDC	FAA TSO-C30b Type III

## 70966 Series - LED Tail Position Light



70966 Series LED Tail Position light, is a high quality, long lasting, modern alternative to incandescent & halogen tail position lights. It offers significant technological upgrades over previous products. Utilizing LED technology, the following advantages are offered: Long Life (approx. 20,000 hours); Reduced Power Consumption (compared to alternative light sources); Shock & Vibration Resistant (no fragile filament to burn out); Light (produces bright White light) and No EMI or RFI Interference. 3 Year Warranty.

Drawing #	Weight	Dimensions H x W x L	Current Draw	Available LED colors	Lenses
70966	0.3 lbs. (136gm)	Exposed Height: 1.64" (42mm) x 1.74" (44mm) x 2.60" (66mm)	0.3 amps @ 28 VDC	Aviation White	Clear Hardcoated Polycarbonate

Model #	Part #	Description	Approvals
7096600	01-0770966-00*	28 VDC - no connectors	FAA TSO-C30c Type III
*Note - Replaces 01-0770805-00			
7096601	01-0770966-01*	28 VDC - connectors, case ground used on Beechjet	FAA TSO-C30c Type III
*Note - Replaces 01-0770805-01			

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## Infrared Lighthouse

## 71485 Series - Covert IR / Red LED Combination Beacon (Supplemental Anti-Collision)



71485 Series is a combination Aviation Red visible and IR flashing beacon. Produced as a derivative of our Models 71080 & 90520, there is no TSO available for this product. 71485 can be surface mounted in an area as small as 2.75" or has an adapter to drop into a 3.75" recessed mount commonly found. Nominal IR LEDs at 875nm. Unit ships with 18" flying leads, independent control for Red and IR LED packages. Surface mount unit and additional models are not listed, contact factory.

Drawing #	Weight	Dimensions H x W	Current Draw	Available LED colors	Lenses
71485	0.670 lbs (304gm) (with 3.75" Adapter)	Exposed Height: 3.5" (88.9mm) x Base Width: 3.66" (92.96mm)	0.3 Amps Avg. Red / 0.12 Amps Average IR	Aviation Red & IR	Clear Polycarbonate

Model #	Part #	Description	Approvals
7148500	01-0771485-00	LED Red & IR Special ACL	—

\* Note: Also on page 27

## 70980 Series - Self-Contained (Infrared) LED Light Assembly (NSN 6210-014143540)



70980 Series is a Self-Contained IR LED Anti-Collision light. This light is currently used on several military aircraft platforms as well as marine use, and can be easily adapted to suit a variety of applications for use in the NVG environment. Product has been tested to RTCA/DO-160 environmental standards. Shipped with flying leads. Lower mount has drain hole in lens.

Drawing #	Weight	Dimensions H x Dia.	Current Draw	Available LED colors	Lenses
70980	1.0 lbs. (454gm)	Exposed Height: 4.04" (103mm) x Exposed Diameter 3.66" (93mm)	0.1 amps @ 28 VDC LED: Infrared (875 nm)		Clear hard coated polycarbonate

Model #	Part #	Description	Approvals
7098000	01-0770980-00	Upper mount, 28 VDC	—
7098001	01-0770980-01	Lower mount, 28 VDC	—

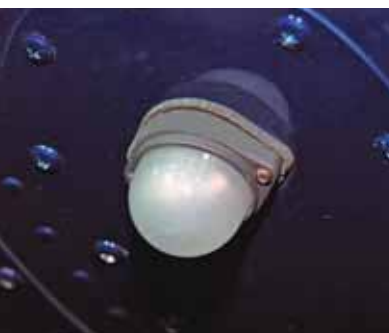
## 70513 Series - Infrared LED Emitter



70513 Series is an IR Emitter used to identify aircraft or vehicles in the non visible light spectrum. A good choice when viewing objects with video or light amplification devices. Product produces good visibility through GEN III/GEN IV NVG from 800 - 1000 meters and marginal visibility out to 1500 meters. Models available in a choice of 30 or 2 hertz. Assembly ships with a set of 36" flying leads.

Drawing #	Weight	Dimensions H	Current Draw	Available LED colors	Lenses
70513	0.2lbs. (91gm)	Exposed Height: 1.4" (36mm)	19ma @ 28 VDC	Infrared, 890nm Wavelength	Heat Resistant glass (frosted)

Model #	Part #	Description	Approvals
7051300	01-0770513-00	IR LED emitter (30hz), 28 VDC	—
7051301	01-0770513-01	IR LED emitter (30hz), 14 VDC	—
7051302	01-0770513-02	IR LED emitter (2hz), 28 VDC	—
7051303	01-0770513-03	IR LED emitter (2hz), 14 VDC	—
7051304	01-0770513-04	IR LED emitter (2hz), 28 VDC, Steady On	—



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## Model 71499 - LED Infrared Identification Light



Model 71499 is a surface mounted LED IR Flasher assembly nearly 30 times the intensity of our Model 70513. Product is designed to be easily identified at distances approaching 2km (depending on conditions and equipment). IR signature is optimized along the 'length' axis, LED output listed at 875nm. Product ships with 12 inches of teflon flying leads.

Drawing #	Weight	Dimensions H x W x L	Current Draw	Available LED colors	Lenses
71499	0.22 lbs (100gm)	Exposed Height: 1.41" (35.81mm) x 1.64" (41.65mm) x 4.61" (117.09mm)	50mA @ 28 VDC	IR	Clear Polycarbonate

Model #	Part #	Description	Approvals
7149900	01-0771499-00	IR LED Flasher, 28 VDC	—

## Model 90540 (Call Factory)



Model 90540 is an Infrared illumination product that produces a 24 degree beam. Model 90540 has demonstrated effectiveness for helicopters and reciprocating engine airplanes during takeoff, landing and off-airport locations. Enhances the effectiveness of NVG goggles by producing IR illumination at 875nm nominal. Specifications: On Request

Drawing #	Weight	Dimensions Diameter x U Bracket	Current Draw	Available LED colors	Lenses
90540	1.5 lbs (00gm)	4.70" (119.38mm) x 1.86" (47.24mm)	2 amps @ 28 VDC	IR	Clear Polycarbonate

Model #	Part #	Description	Approvals
9054000	—	IR LED Flasher with 24 degree beam, 28 VDC	—



Photo Courtesy: Matt Younkin

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# Parmetheus™ Series PAR-36 Super-LED® Lighting

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 PAR-36 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.

- First FAA/PMA Approved PAR-36 Super-LED for Aviation applications.
- Moisture resistant providing stable light output for thousands of trouble-free operating hours.
- Direct replacement for outdated PAR-36 Halogen & HID lamps.
- Available in Landing and Taxi versions.
- Convenient “drop-in” design for ease of installation:
  - Power wiring attaches to brass screw terminals.
  - Weight is virtually identical to previous PAR-36 lamps.
  - Assembly design includes clocking notch.
- Polycarbonate, replaceable, hard-coated outer lens.
- Low current and lightweight.
- Metal, heat dissipating coated housing.
- Whelen TIR™ (Total Internal Reflector) technology, combining spot and flood optical combination, resulting in superior in intensity and effectiveness.
- Proudly designed and manufactured in the USA.
- Three year warranty.



PARMETHEUS

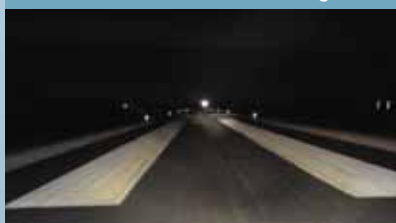
PAR-36



**Note:** Brackets and mounting will vary from aircraft to aircraft; FAA Field Approval (Form 337) may be required to use this product.



PAR-36 Halogen Lamp GE4594 (28V/100W)



First Cone 210' Target 300'



Close-up View

Whelen PARMETHEUS (PLED2L)



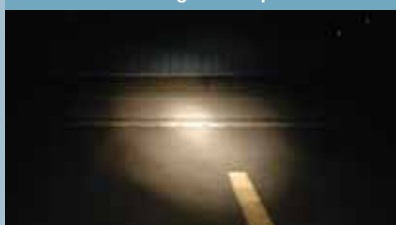
First Cone 210' Target 300'



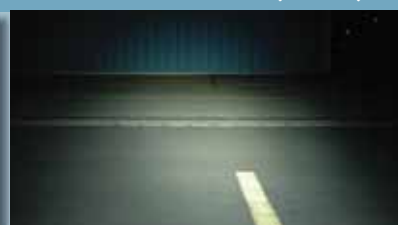
Close-up View

PAR-36 Halogen Lamp GE4509

Whelen PARMETHEUS (PLED2L)



1/15th ISO 1600



f/5 1/15th ISO 1600

Model	Part Number	Weight	Description	Type	Amps @ Volts	Size	LED Color	Optic Lens
PLED2L	01-0771424-20	0.6 lbs. (272gm)	PAR-36 Super-LED drop-in replacement	Landing (Spot Light, 10°)	.6 Amps @ 28 VDC	4.38" Round x 1.75" Face to Screw terminal	White LED	Clear Hardcoated Polycarbonate
PLED2T	01-0771424-25			Taxi (Spreader Optic, 40°)				
PLED1L	01-0771424-10			Landing (Spot Light, 10°)	1.2 Amps @ 14 VDC			
PLED1T	01-0771424-15			Taxi (Spreader Optic, 40°)				
Replacement Outer Lens: 68-3971486A30				Whelen Drawing Number: 71424		Approvals: <b>FAA PMA</b>		

**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.

# Parmetheus™ Series PAR-46 Super-LED® Lighting

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 PAR-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.

- Moisture resistant providing stable light output for thousands of trouble-free operating hours.
- Direct replacement for outdated PAR-46 Halogen & HID lamps.
- Available in a Landing version.
- Convenient “drop-in” design for ease of installation:
  - Power wiring attaches to brass screw terminals.
  - Weight is virtually identical to previous PAR-46 lamps.
  - Assembly design includes clocking notch.
- Polycarbonate, replaceable, hard-coated outer lens.
- Low current and lightweight.
- Metal, heat dissipating coated housing.
- Whelen TIR™ (Total Internal Reflector) technology, combining spot and flood optical combination, resulting in superior in intensity and effectiveness.
- Proudly designed and manufactured in the USA.
- Three year warranty.



Landing Light  
PLED462L



Photo Courtesy: Reid Kasprovicz

Parmetheus PAR-46 (PLED462L)



300' LED

GE4553 Landing Light (28V/250W)



50' Halogen

Parmetheus PAR-46 (PLED462L)



50' LED

**Note:** It is the responsibility of the installer to determine suitability & installation approval for the use of (PLED461L/PLED462L) products in certified aircraft.

Model	Part Number	Weight	Description	Type	Amps @ Volts	Size	LED Color	Optic Lens
PLED462L	01-0790623-20	1.0 lbs. (454 gm)	PAR-46 Super-LED drop-in replacement	Landing (Spot Light, 10° Horizontal and 10° Vertical)	1.3 Amps @ 28 VDC	5.65" Round x 2.25" Face to Screw terminal	White LED	Clear Hardcoated Polycarbonate
PLED461L	01-0790623-10				2.6 Amps @ 14 VDC			
Replacement Outer Lens: 68-3971577A30				Whelen Drawing Number: 90623			Approvals: <b>FAA PMA</b>	

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## Exterior Lighthead Models

### 90361 Series - LED Landing Light PAR-36 Style (External Mount)



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.

Drawing #	Weight	Dimensions Dia. x D	Current Draw	LED Color	Lens
90361	1.3 lbs. (590gm)	Exposed Diameter: 4.70" (119mm) x Overall Depth: 2.87" (73mm)	1.5 amps @ 28 VDC	Aviation White	Clear Polycarbonate

Model #	Part #	Description	Approvals
9036110	01-0790361-10	LED Landing, 14 VDC with "U" bracket	—
9036115	01-0790361-15	LED Taxi, Spreader optic, 14 VDC with "U" bracket	
9036120	01-0790361-20	LED Landing, 28 VDC with "U" bracket	
9036125	01-0790361-25	LED Taxi, Spreader optic, 28 VDC with "U" bracket	

### 71141 Series - LED Landing Light PAR-36 Style (Internal Mount)



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.

Drawing #	Weight	Dimensions Dia. x D	Current Draw	LED Color	Lens
71141	1.0 lbs. (454gm)	Exposed Diameter: 4.46" (113mm), x Overall Depth: 1.90" (48mm)	2.0 amps @ 14 VDC; 1.3 amps @ 28 VDC	Aviation White	Clear Polycarbonate

Model #	Part #	Description	Approvals
7114112	01-0771141-12	LED Landing/Taxing light internal mount, 14 VDC	—
7114122	01-0771141-22	LED Landing/Taxing light internal mount, 28 VDC	

### 90352 Series - LED Landing Light PAR-46 Style (External Mount)



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 "externally (in the airstream)". Special models available with MS power input connector vs. flying leads as standard option. Contact your OEM for installation eligibility on your aircraft.

Drawing #	Weight	Dimensions Dia. x D	Current Draw	LED Color	Lens
90352	2.2 lbs. (998gm)	Exposed Diameter: 5.90" (150mm), x Overall Depth: 3.18" (81mm)	3 amps @ 28 VDC	Aviation White	Clear Polycarbonate

Model #	Part #	Description	Approvals
9035200	01-0790352-00	LED Landing/Taxing light (natural finish)	—
9035220	01-0790352-20	LED Landing/Taxing light (black finish)	

**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.

## Model 90433 - Interior **LED** Landing Light



Model 90433 is a 6 inch round, internal (non-weatherized) LED illumination product. It is styled after a PAR-46 lamp & 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.

Drawing #	Weight	Dimensions Dia. x D x D	Current Draw	LED Color	Lens
90433	1.7 lbs. (771gm)	5.75" (146mm) x 1.11" (28mm) Outer Ring Depth x, 2.61" (66mm) Overall Depth	2.00 amps	Aviation White	Clear Polycarbonate

Model #	Part #	Description	Approvals
9043300	01-0790433-00	6 Inch LED Landing light	—

## Model 90465 - Interior **LED** Landing Light

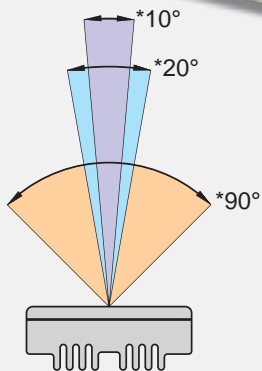


Model 90465 is a 6 inch round, internal (non-weatherized) LED illumination product. It is designed to fit where a Grimes B-5325A-4-24 housing (PAR-46 lamp) is being used. Modeled after the 90433 internal LED above, the 90465 has an integrated mounting bracket. 28 VDC Only. Contact your OEM for installation eligibility on your aircraft.

Drawing #	Weight	Dimensions Dia. x D	Current Draw	LED Color	Lens
90465	1.8 lbs. (816gm)	5.75" (146mm) x 2.65" (67mm) Overall Depth	3.0 amps	Aviation White	Clear Polycarbonate

Model #	Part #	Description	Approvals
9046500	01-0790465-00	LED Landing light	—

## 71125 Series - **LED** Recognition Light



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 with an integrated MS connector also available. Can be used in conjunction with 71115 Flasher control assembly. Contact your OEM for installation information.

Drawing #	Weight	Dimensions H x W x D	Current Draw	LED Color	Lens
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

Model #	Part #	Description	Approvals
7112510	01-0771125-10	10 degree beam pattern, 14 VDC	—
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



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## 71246 Series - Interior LED Illumination, (See 71125 output & mount)



71246 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 10 inch, 18 ga. leads and terminates with an A444 style connector. 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.

Drawing #	Weight	Dimensions H x W x D	Current Draw	LED Color	Lens
71246	0.3 lbs. (136gm)	3.25" (83mm) x 1.95 (50mm) x 2.05" (52mm)	0.5a	White	Clear Polycarbonate

Model #	Part #	Description	Approvals
7124611	01-0771246-11	LED T/R light, 10 degree	—
7124633	01-0771246-33	LED T/R light, 30 degree	

## 71259 Series - Interior LED Illumination Landing / Taxi / Recognition Light (see also 71246)



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 inch, 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.

Drawing #	Weight	Dimensions H x W x D	Current Draw	LED Color	Lens
71259	0.65 lbs. (295gm)	3.25" (83mm) x 3.90" (99mm) x 2.05" (52mm)	1.25a	White	Clear Polycarbonate

Model #	Part #	Description	Approvals
7125900	01-0771259-00	LED landing/taxi light, 20 degree taxi	—
7125901	01-0771259-01	LED landing/taxi light, 30 degree taxi	

## Model 71245 - Interior LED Illumination Landing / Taxi / Recognition Light



71245 is an interior LED illumination product that is designed provide landing/taxi or recognition lighting behind an aircraft outer lens. Assembly ships with 10 inch, 18 ga. leads and terminates with A444 style connector. 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.

Drawing #	Weight	Dimensions H x W x D	Current Draw	LED Color	Lens
71245	0.7 lbs (316gm)	3.25" (83mm) x 5.15" (130.81mm) x 2.05" (52mm)	1.5a	White	Clear Polycarbonate

Model #	Part #	Description	Approvals
7124511	01-0771245-11	LED landing/taxi light, 10 degree	—

## Model 71210 - Interior LED Landing Taxi



71210 is designed to replace Model 90131. It utilizes a state-of-the-art LED technology and Whelen's ultra efficient TIR optic design. Light output 45% greater than the Quartz light it will replace and a fraction of the current. Contact your OEM for installation eligibility on your aircraft.

Drawing #	Weight	Dimensions H x W x D	Current Draw	LED Color	Lens
71210	1.33 lbs. (603gm)	3.25" (83mm) x 7.687" (195mm) x 3.6" (91mm, on the long side)	1.5A (Landing), .5A (Taxi), @ 28 VDC	White	Clear Polycarbonate

Model #	Part #	Description	Approvals
7121000	01-0771210-00	Landing/Taxi LED assembly	—

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## 71265 Series - Interior **LED** Illumination Landing / Taxi / Recognition Light



71265 Series is an LED illumination product designed provide landing/taxi or recognition lighting behind an aircraft outer lens and with the attachment mounting points found in the A109 Sponson. Assembly is 20% brighter (effective Cd) and draws 60% less current than the system originally installed at the factory. Deck angle is not field adjustable. Assembly ships with two 10 inch, 18 ga. leads and terminates with A441 style connectors for direct aircraft replacement. There are choices of 10, 20 and 30 degree optic lighting spreads for these assemblies. 28 VDC Only. Contact your OEM for installation eligibility on your aircraft.

Drawing #	Weight	Dimensions H x W x D	Current Draw	LED Color	Lens
71265	1.43 lbs (649gm)	3.25" (83mm) Height x 7.10" (180mm) Wide x 3.42" (87mm) Deep Mounting Bracket is 3.87" (98mm)	1.8a	White	Clear Polycarbonate

Model #	Part #	Description	Approvals
7126511	01-0771265-11	LED landing/taxi light, left	—
7126521	01-0771265-21	LED landing/taxi light, right	—

## 90406 - Interior **LED** Illumination Landing / Taxi / Recognition Light



90406 is an LED illumination product designed to provide landing/taxi or recognition lighting behind an aircraft outer lens. Assembly ships with 24 inch, 20 gauge (with abrasion protection) flying leads. There are choices of 10 and 30 degree optic lighting spreads for this assembly (S76, Contact Sikorsky). 28 VDC Only. Contact your OEM for installation eligibility on your aircraft.

Drawing #	Weight	Dimensions H x W x D	Current Draw	LED Color	Lens:
90406	1.11 lbs (503gm)	8.20" (208mm) x 3.15" (80mm) x 1.35" (34mm)	2.1a	White	Clear Polycarbonate

Model #	Part #	Description	Approvals
9040600	01-0290406-00	LED landing/recognition light	—

## Model 71325 - **LED** Recognition Light



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 inch wires into A447 style pin connector. Optimized for 28 VDC, will operate from 14-28VDC.

Drawing #	Weight	Dimensions H x W x D	Current Draw	LED Color	Lens:
71325	0.17 lbs. (77gm)	1.45" (37mm) Center to Center Mounting Holes (Height) x 2.56" (65mm) x 1.38" (35mm)	0.25a	Aviation White	Clear Polycarbonate

Model #	Part #	Description	Approvals
7132500	01-0271325-00	LED Recognition light	—

## Model 71674/71665 - Interior **LED** Illumination Landing/Taxi/Recognition Light



Model 71674 is an Interior mounted LED Landing/Taxi/Recognition light. The unit comes with equipped with 6 inch flying leads. Unit available in 14 and 28 VDC. Contact Whelen factory for installation eligibility on your aircraft.

Drawing #	Weight	Dimensions H x W x L	Current Draw	LED Color	Lens:
71674	1.4 lbs (64 gm)	3.25" (82.5mm) x 2.19" (55.62mm) x 5.40" (137mm)	Landing 3 amps, taxi 1 amps, 28 VDC	White	Clear Polycarbonate with UV inhibitor
71665			14 VDC		

## Model 71186 - LED Illumination / Downwash / Recognition



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 28VDC, will operate from 14-28VDC.

Drawing #	Weight	Dimensions	Current Draw	LED Color	Lens:
71186	0.2 lbs. (91gm)	1.95" (50mm) Inner Diameter, 2.15" (55mm) Outside Face, 1.0" (25mm) Overall Depth	0.25a	Aviation White	Clear Polycarbonate

Model #	Part #	Description	Approvals
711860101	01-0771186-01	LED Downwash light	—

## 71280 Series - LED Wing Inspection Light



71280 Series utilizes 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). Assembly deflects light in one direction (off-angle illumination), 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 from 14-28VDC.

Drawing #	Weight	Dimensions H x D x L	Current Draw	LED Color	Lens:
71280	0.3 lbs (136gm)	2.01" (51mm) x 2.7" (69mm) Deep x 4.28" (109mm)	0.25 amps	Aviation White	Polycarbonate

Model #	Part #	Description	Approvals
7128010	01-0771280-10	LED Ice Detection (LH)	—
7128020	01-0771280-20	LED Ice Detection (RH)	

## 71156 Series - Flasher Assembly



71156 Series is an electronic 'Pulse' Light Flasher for use with Whelen Taxi & Landing LED lighthouses (catalog and custom versions). 71156 is being integrated into aircraft model upgrades and new type certified aircraft. Flasher operates four outputs steady-burn 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.

Drawing #	Weight	Dimensions H x W x L	Current Draw	Flash Rate:	Lens:
71156	1.1lbs. (499gm)	Exposed Height: 1.8" (46mm) x 4.56" (116mm) x 5.0" (127mm)	20A max (all outputs) @ 28 VDC	90 fpm (combined)	—

Model #	Part #	Description	Approvals
7115604	01-0771156-04	Flasher assembly	—

## Model 71375 - LED Flasher Assembly



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. D38999 connectors pictured. Aluminum housing. Tested in accordance with RTCA/DO-160 Environmental standards.

Drawing #	Weight	Dimensions H x W x L	Current Draw	Flash Rate
71375	0.5lbs. (227gm)	Exposed Height: 1.56" (40mm) x 3.5" (89mm) x 4.5" (114mm)	5A max (all outputs) @ 28 VDC	90 fpm (combined)

Model #	Part #	Description	Approvals
7137500	01-0771375-00	LED Flasher Assembly	—

## PAR Lamp Series - Quartz Halogen Lamp Fixtures



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/Style	Drawing#	Voltage	Wattage	Candela	Approvals
Q5596	34-0750692-00	Par-36 Landing	50692	28 VDC	250	150,000	FAA/PMA
Q5587	34-0750707-00	Par-36 Taxi	50707	28 VDC	250	40,000	FAA/PMA
Q4509	34-0750748-00	Par-36 Landing	50748	14 VDC	100	140,000	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 - PAR-46 Lamp Fixtures



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

Drawing #	Weight	Dimensions	Current Draw
90095	0.42 lbs. (191gm) Weight less lamp	Depth: 2.9" (74mm) Diameter: 6.0" (152mm)	—

Model #	Part #	Description	Approvals
9009504	01-0790095-04	Right Side mounting w/4580 lamp	—
9009505	01-0790095-05	Left Side mounting w/4580 lamp	—
9009507	01-0790095-07	Housing only, less lamp	—

## 71685 Series - LED Recognition/Landing Light Assembly



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

Drawing #	Weight	Dimensions H x W x D	Current Draw (TBD)
71685	Weight with Lens 0.28 lbs. (127gm)	2.07" (53mm) x 3.64" (93mm) x Depth: 0.979" (25mm)	—

Model #	Part #	Description	Approvals
7168500	01-0771685-00	28 VDC	—
7168501	01-0771685-01	14 VDC	—

## A775 Series - Recognition light



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

Drawing #	Weight	Dimensions H x W x D	Current Draw	LED Color:	Lens:
70110	0.14 lbs. (64gm)	1.75" (44mm) x 3.25" (83mm) 2.25" (57mm)	2.5 amps @ 14 VDC, 1.25 amps @ 28 VDC	—	—

Model #	Part #	Description	Approvals
7011001	01-0770110-01	Molex connector (Piper), 14 VDC	FAA/PMA
7011002	01-0770110-02	Molex connector (Piper), 28 VDC	FAA/PMA
A77514	01-0770110-04	12" leads, 14 VDC	—
A77528	01-0770110-05	12" leads, 28 VDC	—

## A775-EXP Series - Explosion Proof Recognition Light



A775-EXP Series Explosion Proof version of the A775 Recognition light assembly which produces up to 22,000 beam candlepower using only a 35 Watt lamp.

Drawing #	Weight	Dimensions H x W x D	Current Draw
70111	0.2 lbs. (91gm)	2.4" (61mm) x 3.3" (84mm) x 2.4" (61mm)	2.5 amps @ 14 VDC, 1.25 amps @ 28 VDC

Model #	Part #	Description	Approvals
A775EXP1	01-0770111-00	12" leads, 14 VDC	—
A775EXP2	01-0770111-01	12" leads, 28 VDC	

## 70303 Series - Wingtip Recognition Light Assembly



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

Drawing #	Weight	Dimensions H x W x D	Current Draw	Lens Color:	Lens:
70303	0.1 lbs. (45gm)	1.25" (32mm) x 2.1" (53mm) x 1.8" (46mm)	2 amps @ 14 VDC, 1 amp @ 28 VDC	—	—

Model #	Part #	Description	Approvals
7030300	01-0770303-00	14 VDC	FAA/PMA
7030301	01-0770303-01	28 VDC	—

## 90093 Series - Ice Detection Light Assembly



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

Drawing #	Weight	Dimensions H x W x D	Current Draw	Lens Color:	Lens:
90093	0.2 lbs. (91gm)	2.0" (51mm) x 2.0" (51mm) x 1.87" (48mm)	1.8 amps @14 VDC, 0.9 amps @28 VDC	—	—

Model #	Part #	Description	Approvals
9009300	01-0790093-00	28 VDC	FAA/PMA
9009303	01-0790093-03	14 VDC	—

## 90195 Series - PAR-36 Housing and Lamps



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

Drawing #	Weight	Dimensions D x Dia.
90195	0.5 lbs. (227gm) (less lamp) 1.0 lbs. (454gm) (with lamp)	3.03" (77mm) x 4.88" (124mm)

Model #	Part #	Description	Approvals
9019500	01-0790195-00	Housing only, less lamp	—
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	

## A715-1 Series - PAR-36 Housing and Lamp



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

Drawing #	Weight	Dimensions D x Dia.
70155	1.0 lbs. (454gm) with lamp 0.4 lbs. (181gm) less lamp	2.12" (54mm) x 4.75" (121mm)

Model #	Part #	Description	Approvals
A7151	01-0770155-00	Housing only, less lamp	FAA/PMA
7015502	01-0770155-02	Housing with #Q5596 lamp	—



## Interior Lighthouse Models

### Model C70190 - 'Gooseneck' Light Assembly



Model C70190 Interior Gooseneck light assembly featuring a positive off position & rheostat controlled light intensity. Uses the #1495 lamp. 28 VDC Only.

Drawing #	Weight	Dimensions	Current Draw	Lamp	Available Color
70190	0.3 lbs. (136gm)	(See below Order Code)	0.3 amps @ 28 VDC	6 Watt	Clear Red & Blue

Model #	Part #	Description	Approvals
70190( )	01-0770190( )	As requested (see chart)	FAA/PMA (12" Only)

#### Ordering Code Example:

		70190 - B - 12
Model P/N	Lens Color	Arm Length in inches
70190	W = Clear	04 = 4", 06 = 6", 08 = 8",
	R = Red	10 = 10", 12 = 12", 14 = 14", 16 = 16", 18 = 18",
	B = Blue (Inst. White)	20 = 20", 22 = 22", 24 = 24"

### Model 71144 - 'Gooseneck' LED Light Assembly



71144 assembly features a positive off position and rheostat controlled light intensity. Models including 'side' mounted intensity control are which is designed for the S76D. 28 VDC Only.

Drawing #	Weight	Dimensions L	Current Draw	Available LED colors	Hood
71144	0.46 lbs. (209gm)	16" (406.40mm)	0.06 amps @ 28 VDC	Aviation White	Black Nylon Hood: fixed in Position

Model #	Part #	Description	Approvals
7114416	01-0771144-16	16 inch adjustable map light, 28 VDC	—

### 70348 Series - Post Lights



70348 Series Instrument Post light assemblies is 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. 28 VDC Only.

Drawing #	Weight	Dimensions	Current Draw	Available colors	Lenses
70348	0.037 lbs. (17gm)	Exposed Height: 0.856" (22mm)	0.04 amps @ 28 VDC	White Clear & Red	Polycarbonate

Model #	Part #	Description	Approvals
7034800	01-0770348-00	Instrument White, 28 VDC	—
7034801	01-0770348-01	Red with spacer, 28 VDC	
7034802	01-0770348-02	Clear, 28 VDC	
7034803	01-0770348-03	Red, 28 VDC	

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## 71434, 71440 & 71450 Series - LED Post Lights



28 VDC  
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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 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.

White LED P/N 34-0618060 - without Red LED 34-0618060-RO

Drawing #	Weight	Dimensions H	Current Draw	Available Colors	Lenses
71434, 71440 & 71450	0.037 lbs. (17gm)	Exposed Height: 0.95" (24mm) with spacer, 0.875" (22mm) without spacer	.10 mA @14 VDC & 28 VDC	—	—
Model 71434#	Part #	Description	Approvals		
01-0771434B11	71434B11	LED post light, 14 VDC, White long black	—		
01-0771434B13	71434B13	LED post light, 14 VDC, White short black			
01-0771434B20	71434B20	LED post light, 28 VDC, Red long black			
01-0771434B21	71434B21	LED post light, 28 VDC, White long black			
01-0771434B22	71434B22	LED post light, 28 VDC, Red short black			
01-0771434B23	71434B23	LED post light, 28 VDC, White short black			
01-0771434G11	71434G11	LED post light, 14 VDC, White long grey			
01-0771434G13	71434G13	LED post light, 14 VDC, White short grey			
01-0771434G20	71434G20	LED post light, 28 VDC, Red long grey			
01-0771434G21	71434G21	LED post light, 28 VDC, White long grey			
01-0771434G22	71434G22	LED post light, 28 VDC, Red short grey			
01-0771434G23	71434G23	LED post light, 28 VDC, White short grey			
Model 71440#	Part #	Description	Approvals		
01-0771440-00	7144000	LED post light, 28 VDC, Red with spacer	—		
01-0771440-01	7144001	LED post light, 28 VDC, White			
01-0771440-02	7144002	LED post light, 28 VDC, Red			
Model 71450#	Part #	Description	Approvals		
01-0771450B11	71450B11	LED post with nut, 14 VDC, White long black	—		
01-0771450B13	71450B13	LED post with nut, 14 VDC, White short black			
01-0771450B20	71450B20	LED post with nut, 28 VDC, Red long black			
01-0771450B21	71450B21	LED post with nut, 28 VDC, White long black			
01-0771450B22	71450B22	LED post with nut, 28 VDC, Red short black			
01-0771450B23	71450B23	LED post with nut, 28 VDC, White short black			
01-0771450G11	71450G11	LED post with nut, 14 VDC, White long grey			
01-0771450G13	71450G13	LED post with nut, 14 VDC, White short grey			
01-0771450G20	71450G20	LED post with nut, 28 VDC, Red long grey			
01-0771450G21	71450G21	LED post with nut, 28 VDC, White long grey			

## A350 & A350CN Series - Post Lights

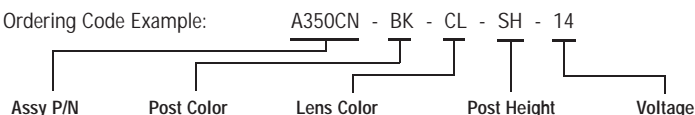
A350 and A350CN Series Instrument Post light assemblies are designed to illuminate the instrument panel and function as instrument mounting bolts. The A350 is identical to the A350CN, but without the connector nut.



Drawing #	Weight	Dimensions H	Current Draw	Colors	Lenses
A350: 70116 A350CN: 70119	0.037 lbs (17gm)	Exposed Height: .875" (22mm) without spacer, 1.00" (25mm) with spacer	0.2 amps @ 6 VDC, 0.08 amps @ 14 VDC, & 0.04 amps @ 28 VDC	—	—
Model #	Part #	Description	Approvals		
A350	01-0770116-(-)	Instrument post light assemblies	—		
A350CN	01-0770119-(-)	Instrument post light assemblies	FAA/PMA		
Lens Colors		Post Colors	Post Heights	Voltages	
IW = Instrument White CL = Clear RD = Red		BK = Black GR = Grey	SH = Short (1.875") LG = Long (2.375")	6 = (328 lamp) 14 = (330 lamp) 28 = (327 lamp)	

Ordering Options:

Ordering Code Example:



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## 70820 Series - Interior LED Map/Reading Light



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.

Drawing #	Weight	Dimensions H x W x Dia.	Current Draw	Available colors	Lenses
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 Blue White	—

Model #	Part #	Description	Approvals
7082000	01-0770820-00	White LED, natural aluminum finish, 14 VDC	—
7082001	01-0770820-01	White LED, natural aluminum finish, 28 VDC	
7082002	01-0770820-02	White LED, black anodized finish, 14 VDC	
7082003	01-0770820-03	White LED, black anodized finish, 28 VDC	
7082004	01-0770820-04	Red LED, black anodized finish, 14 VDC	
7082005	01-0770820-05	Red LED, black anodized finish, 28 VDC	
7082006	01-0770820-06	Blue LED, black anodized finish, 14 VDC	
7082007	01-0770820-07	Blue LED, black anodized finish, 28 VDC	

## A315-HI Series - Cockpit Utility Light Assembly (NSN 6220-13417718)



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.

Drawing #	Weight	Dimensions H x W x L	Current Draw	Available colors	Lenses
70113	0.07 lbs. (32gm)	2.2" (56mm) x 0.87" (22mm) x 0.93" (24mm)	0.46 amps @ 14 VDC 0.3 amps @ 28 VDC	Red Blue White	Polycarbonate

Model #	Part #	Description	Approvals
A315HIR1	01-0770113-00	Red lens, 14 VDC	—
A315HIR2	01-0770113-01	Red lens, 28 VDC	
A315HIW1	01-0770113-02	White lens, 14 VDC	
A315HIW2	01-0770113-03	White lens, 28 VDC	
A315HIB1	01-0770113-04	Instrument White lens, 14 VDC	
A315HIB2	01-0770113-05	Instrument White lens, 28 VDC NSN	

## A315-LO Series - Cockpit Utility Light Assembly



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.

Drawing #	Weight	Dimensions H x W x D	Current Draw	Available colors	Lenses
70106	0.06 lbs. (27gm)	2.18" (55mm) x 0.81" (21mm) x 0.81" (21mm)	0.33 amps @ 14 VDC 0.17 amps @ 28 VDC	White	—

Model #	Part #	Description	Approvals
A315LO14	01-0770106-00	14 VDC	—
A315LO28	01-0770106-01	28 VDC	

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## 70813 Series - LED Cabin Light



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.

Drawing #	Weight	Dimensions L x W x D	Available colors	Lenses
70813	0.1 lbs. (45gm)	4.0" (101mm) x 2.75" (70mm) x Mounting Depth: 0.25" (6mm)	Aviation White	Glass

Model #	Part #	Description	Current Draw	Candela	Approvals
7081300	01-0770813-00	28 VDC	.04 amps	7 CD	—
7081303	01-0770813-03	14 VDC	.08 amps	14 CD	
7081304	01-0770813-04	28 VDC	.08 amps	14 CD	
7081307	01-0770813-07	14 VDC	0.16 amps	28 CD	
7081308	01-0770813-08	28 VDC	0.16 amps	28 CD	
7081311	01-0770813-11	14 VDC	0.24 amps	42 CD	
7081312	01-0770813-12	28 VDC	0.24 amps	42 CD	

## 71414 - LED Inspection Light



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 an 'L' 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.

Drawing #	Weight	Dimensions H x W	Current Draw	LED Color	Lenses
71414	0.08 lbs (36.29gm)	1.19" (30.23mm) x 0.80" (20.32mm)	60 mA	Aviation White	Clear Polycarbonate

Model #	Part #	Description	Approvals
71414	01-0771414-00	With Viewing Angle up to 70 degrees, 24 VDC	—

## A360 Series - Interior Light



A360 Series Interior light assemblies designed for compartment flooding and general lighting. The A360SW is identical to the A360 but includes an On/Off slide switch. Suffix in model number indicates lamp required. Lamp desired determines the voltage.

Drawing #	Weight	Dimensions W x L x D	Current Draw	Available colors	Lenses
A360SW: 70143 A360: 70142	0.2 lbs. (91gm)	2.75" (70mm) x 4.0" (101mm) x Depth Behind Mounting Flange: 1.40" (36mm)	.67 amps	White	Glass

Model #	Part #	Description	Approvals
A360631	01-0770142-00	#631 lamp, 9 Watt, 14 VDC	—
A360303	01-0770142-01	#303 lamp, 9 Watt, 28 VDC	
A3601141	01-0770142-02	#1141 lamp, 18 Watt, 14 VDC	
A360307	01-0770142-03	#307 lamp, 18 Watt, 28 VDC	
A360S	01-0770143-00	#631 lamp, 9 Watt, 14 VDC with switch	
A360S303	01-0770143-01	#303 lamp, 9 Watt, 28 VDC with switch	
A360SW1	01-0770143-02	#1141 lamp, 18 Watt, 14 VDC with switch	
A360S307	01-0770143-03	#307 lamp, 18 Watt, 28 VDC with switch	

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## 71140 Series - LED Dome Light, Primary & Emergency Lighting



71140 Series is an LED alternative 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 28 VDC, an emergency circuit at 5 VDC 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 5 VDC line and a 28 VDC line.

Drawing #	Weight	Dimensions H	Current Draw	Available LED colors	Lenses
71140	0.35 lbs. (159mm)	Exposed Height: 0.45 (11mm)	125mA @ 28 VDC, 250mA @ 5 VDC	Aviation White	Translucent Polycarbonate

Model #	Part #	Description	Approvals
7114000	01-0771140-00	LED interior dome light	—

## A300 Series - Interior Map Light



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.

Drawing #	Weight	Dimensions	Current Draw	Lamp Wattage	Lenses
70104	0.16 lbs. (73gm)	Depth Behind Mounting Flange: 1.06" (27mm)	0.46 amps @ 14 VDC 0.3 amps @ 28 VDC	6 Watts	Polycarbonate

Model #	Part #	Description	Approvals
A300W14	01-0770104-30	Instrument White, 14 VDC	—
A300W28	01-0770104-31	Instrument White, 28 VDC	
A300R14	01-0770104-50	Red, 14 VDC	
A300R28	01-0770104-51	Red, 14 VDC	

## 70339 Series - Interior Dome/Compartment Light



70339 Series Interior Dome/Compartment 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.

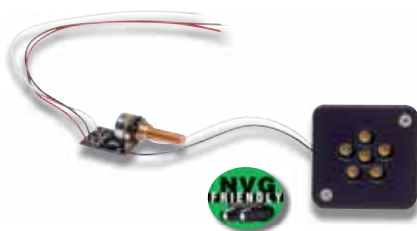
Drawing #	Weight	Dimensions	Current Draw	Lamp Wattage	Lenses
70339	0.16 lbs. (73gm)	Depth Behind Mounting Flange: 1.06" (27mm)	0.46 amps @ 14 VDC 0.3 amps @ 28 VDC	6 Watts	Polycarbonate

Model #	Part #	Description	Approvals
7033901	01-0770339-01	14 VDC	—
7033902	01-0770339-02	28 VDC	
7033903	01-0770339-03	14 VDC with switch	
7033904	01-0770339-04	28 VDC with switch	



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## Model 71154 - LED Reading/Cockpit Light



Model 71154 is an LED Reading/Cockpit light replacement for Grimes Model 22020 (typically found on S76 and GIV aircraft and others). Item ships as pictured with LED specific rheostat located ten inches from the lighthouse. Rheostat shaft is 0.25 inches in diameter. Steady On/Dimmable. 28 VDC Only.

Drawing #	Weight	Dimensions H x W x L	Current Draw	Housing	Lenses
71154	0.2 lbs. (91gm)	Exposed Height: 0.75" (19mm) x 2.25 (57mm) x 2.25" (57mm)	0.125a	Black Anodize Aluminum	—

Model #	Part #	Description	Approvals
7115400	01-0771154-00	LED series flood light	—

## Model 70985 - LED Interior Illumination Assembly



Model 70985 is an LED interior illumination assembly. It's .5 inches wide and is 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 inch flying leads. Will function normally from 24-30 Volts.

Drawing #	Weight	Dimensions	Current Draw	Available colors	Lenses
70985	0.18 lbs. (81.64gm)	2.45" (62mm) Long, 0.5 (13mm) Wide (-01 Version), 1.95" (50mm) Long, 0.5 (13mm) Wide (-00 Version)	0.06a Average Typ.	White	—

Model #	Part #	Description	Approvals
7098501	01-0770985-01	Interior 12 LED light strip	—



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## 90029 Series - Anti-Collision/Position/Recognition Light Assembly



90029 Series All-inclusive Anti-Collision/Position/Recognition light assembly. Used on Beech Barons, King Airs and Super King Airs. Replaces 30-1329-( ) Series.

Drawing #	Weight	Dimensions H x W x L	Current Draw	Available colors	Lenses
90029	2.5 lbs. (1134gm)	6.4" (163mm) x 3.1" (79mm) x 10.2" (259mm)	Position light - 1.0 amps @ 28 VDC Recognition light - 1.25 amps @ 28 VDC Power supply - 1.5 amps @ 28 VDC	—	—



Model #	Part #	Description	Approvals
900291	01-0790029-01	Position Red	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

## 71100 Series - LED Colored Identification Light



71100 Series are versions of our 71011 LED Taillight. Developed for applications requiring aircraft ground visibility, low light, at oblique angles for ground personnel. Item utilized White LEDs filtered with Blue, Green, Red or Amber colored outer lens.

Drawing #	Weight	Dimensions	Current Draw	Available LED colors	Lenses
71100	0.2lbs (91gm)	Exposed Height: 1.36" (35mm) Mounting Hole Pattern: 1.75" (44mm)	0.3A @ 28 V	White	Blue, Red, Green or Amber polycarbonate



Model #	Part #	Description	Approvals
7110001	01-0771100-01	Vertical mount amber	—
7110002	01-0771100-02	Vertical mount blue	
7110004	01-0771100-04	Vertical mount Green	
7110005	01-0771100-05	Vertical mount Red	
7110011	01-0771100-11	Horizontal mount amber	
7110012	01-0771100-12	Horizontal mount blue	
7110014	01-0771100-14	Horizontal mount Green	
7110015	01-0771100-15	Horizontal mount Red	

## Miscellaneous

### Model 7054400 - Ground Crew Call Warning Horn



Ground crew call warning horn designed for Boeing. It produces 108db (+10db, -3db) at a frequency of 25-20,000 Hz.

Drawing #	Weight	Dimensions H x D	Current Draw
70544	0.65 lbs. (295gm)	2.28" (58mm) x Horn Diameter: 3.56" (90mm)	55ma @ 28 VDC (typical)

Model #	Part #	Boeing #	Description	Approvals
7054400	01-0770544-00	10-62239-1	Ground crew call warning horn designed for Boeing	FAA/PMA

**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.

## Model 7066600 - Fire Warning Horn

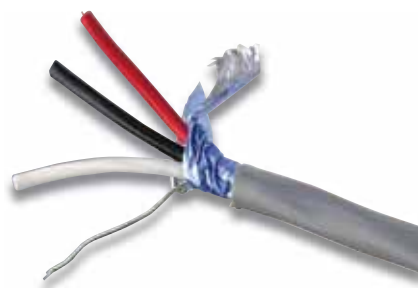


Auxiliary power unit, fire warning horn designed for Boeing. It produces 108db (+10db, -3db) at a frequency of 25-20,000 Hz.

Drawing #	Weight	Dimensions	Current Draw
70666	1.25 lbs. (567gm)	Overall Height: 2.28" (58mm) Horn Diameter: 5.12" (130mm) Mounting Depth: 1.71" (43mm)	55ma @ 28 VDC (typical)

Model #	Part #	Boeing #	Description	Approvals
7066600	01-0770666-00	10-62239-2	70666	FAA/PMA

## Installation Cable Kits (NSN 6080-14330778)



Cable kits include all required connectors for hooking up the strobe light to the power supply only. Warning placards and the Installation Service manual is included also. All cable is 16 gauge 3/C shielded. The cable diameter is .275" (7mm). Weight is .050 lbs. per linear foot. (Kits do not include switches or connectors)

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 ass'y	
A446	02-0230085-00	2 Position female connector with sockets ass'y	
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	—

Whelen does not have specific kits set up (Contact Authorized Whelen Distributor). The following are strobe 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.

## Raytheon/Beech Aircraft

### 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 strobes, the following is recommended:

Quantity	Model	Part #	Description
1 each	HDACF	01-0770028-05	Power supply
1 each	7111001	01-0771110-01	LED Wingtip light, 14 VDC, green
1 each	7111002	01-0771110-02	LED Wingtip light, 14 VDC, red
1 each	HD60	01-0750206-00	Installation package

**Note:** Model 7005400 and 7005402 can replace Model 71110 for a **Halogen** solution



### 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 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 strobes, the following is recommended:

Quantity	Model	Part #	Description
1 each	HDACF	01-0770028-05	Power supply
2 each	D900283	01-0790028-03	Wingtip strobe light
1 each as req.	A500AV14 or A500AV28	01-0770024-00 01-0770024-01	Tail strobe/position light
1 each	HDT390	01-0750205-00	Installation package





## 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.	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)

## 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 strobes, the following is recommended:

Quantity	Model	Part #	Description
1 each	HDACF	01-0770028-05	Power supply
1 each	7111001	01-0771110-01	LED Wingtip light, 14 VDC, green
1 each	7111002	01-0771110-01	LED Wingtip light, 14 VDC, red
1 each	HD60	01-0750206-00	Installation package

**Note:** Model A650PG14/A650PR14 can replace Model 711100( ) for a **strobe/halogen** solution



### Wingtip Strobes for Single Engine 1962 through 1969 –

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

Quantity	Model	Part #	Description
1 each	HDACF	01-0770028-05	Power supply
1 each	7111001	01-0771110-01	LED Wingtip light, 14 VDC, green
1 each	7111002	01-0771110-02	LED Wingtip light, 14 VDC, red
1 each	HD60	01-0750206-00	Installation package

**Note:** Model A650PG14 & A650PR14 can replace Model 711100( ) for a **strobe/halogen** solution



### 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 and Later –

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

#### Recommended Parts for Aircraft without Factory Installed Systems:

Quantity	Model	Part #	Description
2 each	A490TCCF	01-0770006-09	Wingtip strobe power supply
2 each	A610	02-0250276-00	Wingtip strobe tube assembly
2 each	A612	68-2290005-30	Wingtip strobe lens
1 each	HT	01-0750216-00	Installation package

**Note:** A small percentage of 1972 and later aircraft used the 1962-1969 wingtip.





## 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.	A440	19-130074-009	Mounting adapter (required for fuselage mounting)

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 (req. for fuselage mount)

## 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.	A470AR	01-0770019-18	Strobe light assembly, Red
1 as req.	A470AW	01-0770019-19	Strobe light assembly, White
1 as req.	A470AS	01-0770019-20	Strobe light assembly, split Red/White

**Note Option 1:** Model 71055 Self-Contained LED Beacon can replace Model A470AR for LED solution

1 each	A490ATSC	01-0770062-03	Power supply assembly
1 each	H102	01-0730068-00	Mounting adapter
1 each	HT10	01-0750218-00	Installation package
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.	A440	19-130074-009	Mounting adapter (required for fuselage mounting)

**Note Option 2:** Model 90520 Self-Contained LED Beacon can replace Model A470AR for LED solution

## 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

# Cessna Aircraft (cont'd)

## 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 #ST22B0 was for Citation 550, S550 & 560, Serial #128 thru 256. The following is recommended.

System P/N – 01-0716164-03, (STC #ST22B0) 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 #ST0010B0, 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 #ST0010B0) 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 #ST22B0 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)

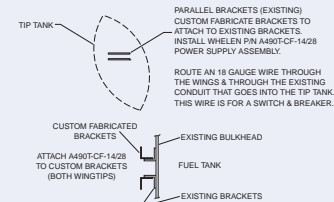
\*Note: Check existing mounting configuration before ordering. To convert the existing beacon to an **LED** flashing beacon:

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

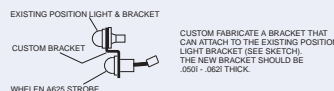
Quantity	Model	Part #	Description
1 as req.*	9004401	01-0790044-01	Upper mount, 5 hole (Red)
1 as req.*	9004433	01-0790044-33	Upper mount, Red, 5 hole, 2.25 lbs. (rudder mount)
1 as req.*	9004437	01-0790044-37	Upper mount, Red, 5 hole, (Citation X)

\*Note: Check existing mounting configuration before ordering. To convert the existing beacon to an **LED** flashing beacon:

### 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

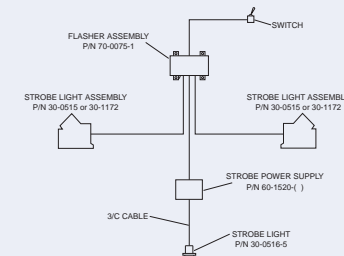


THIRD LIGHT INSTALLATION IN THE TAIL CONE  
IF A THIRD LIGHT IS REQUIRED, INSTALL THE WHELEN A490T-CF-1428 POWER SUPPLY, ADJACENT TO THE WHELEN COMBINATION STROBE AND LIGHT ASSEMBLY, P/N A500AV-28

ROTATING BEACON REPLACEMENT  
TO REPLACE THE ROTATING BEACON ON THE VERTICAL FIN, THE RECOMMENDED LIGHT ASSEMBLY IS A WHELEN HRCFA-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.





### Early Model Flat Wing with Exterior Position Light Mounting –

To convert to Whelen strobes, the following is recommended:

Quantity	Model	Part #	Description
1 each	HDACF	01-0770028-05	Power supply
1 each	7111001	01-0771110-01	LED Wingtip light, 14 VDC, green
1 each	7111002	01-0771110-02	LED Wingtip light, 14 VDC, red
1 each	HD60	01-0750206-00	Installation Package

**Note:** Model A650PG14/A650PR14 can replace Model 711100( ) for a **strobe/halogen** solution



### Enclosed Wingtip (New Installation) –

To convert to Whelen strobes, the following is recommended:

Quantity	Model	Part #	Description
1 each	HDACF	01-0770028-05	Power supply
1 each	7111001	01-0771110-01	LED Wingtip light, 14 VDC, green
1 each	7111002	01-0771110-02	LED Wingtip light, 14 VDC, red
1 each as req.	A500AV14 or A500AV28	01-0770024-00 01-0770024-01	Tail strobe/Position light assembly, 14 VDC Tail strobe/Position light assembly, 28 VDC
1 each	HDT390	01-0750205-00	Installation package

**Note:** Model A650PG14/A650PR14 can replace Model 711100( ) for a **strobe/halogen** solution



### 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 01-0770024-01	Tail strobe/Position light assembly, 14 VDC 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.	HRCFAR	01-0770029-29	Standard assembly, Red Lens
1 as req.	HRCFAW	01-0770029-30	Standard assembly, White Lens
1 as req.	HRCFAS	01-0770029-31	Standard assembly, split Red/White lens
1 as req.	A440	19-130074-009	Mounting adapter (required for new fuselage mounting)
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.	A440	19-130074-009	Mounting adapter (required for new fuselage mounting)

**Note Option 2:** Model 90520 Self-Contained LED Beacon can replace Model 70029-29, -30 & -31 for a **LED** solution



# Piper Aircraft

## 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	HDACF	01-0770028-05	Power supply
1 each	7111001	01-0771110-01	LED Wingtip light, 14 VDC, green
1 each	7111002	01-0771110-02	LED Wingtip light, 14 VDC, red
1 each	HD60	01-0750206-00	Installation package

**Note:** Model A650PG14/A650PR14 can replace Model 711100( ) for a **strobe/halogen** solution



## Piper Navajo –

System is as follows:

Quantity	Model	Part #	Description
1 each	HDACF	01-0770028-05	Power supply
1 each	7111003	01-0771110-03	LED Wingtip light, 28 VDC, green
1 each	7111004	01-0771110-04	LED Wingtip light, 28 VDC, red
1 each	A500AH28	01-0770024-03	Tail Position/strobe light assembly, 28 VDC
1 each	HDT390	01-0750205-00	Installation package

**Note:** Model A650PG14/A650PR14 can replace Model 711100( ) for a **strobe/halogen** solution



## 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.	A440	19-130074-009	Mounting adapter (required for new fuselage mounting)

**Note:** Model 7090004 & 7090005 Self-Contained Strobe Beacon can replace Model 9052055 and 9052005 for a **strobe** solution

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 (req. fuselage mount)



## 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	HDACF	01-0770028-05	Power supply
1 each	A600PG14	01-0790006-00	Wingtip strobe/position/taillight, 14 VDC
1 each	A600PR14	01-0790006-02	Wingtip strobe/position/taillight, 14 VDC
<b>Note:</b> Model 9034001 and 9034002 can replace Model A600 for a <b>LED</b> solution			
1 each	HD60	01-0750206-00	Installation package

## 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	HDACF	01-0770028-05	Power supply
1 each	7111001	01-0771110-01	LED Wingtip light, 14 VDC, green
1 each	7111002	01-0771110-02	LED Wingtip light, 14 VDC, red
1 each	A500AV14	01-0770024-00	Tail position/strobe light assembly
1 each	HDT390	01-0750205-00	Installation package
<b>Note:</b> Model A650PG14/A650PR14 can replace Model 711100( ) for a <b>strobe/halogen</b> solution			



## 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	A490ATSC	01-0770062-03	Power supply
1 each	7111001	01-0771110-01	LED Wingtip light, 14 VDC, green
1 each	7111002	01-0771110-02	LED Wingtip light, 14 VDC, red
1 each	A500AV14	01-0770024-00	Tail position/strobe light assembly, 14 VDC
3 each	HS5	01-0750215-00	Installation package
<b>Note:</b> Model A650PG14/A650PR14 can replace Model 711100( ) for a <b>strobe/halogen</b> solution			



## WHELEN/AEROFLASH/CESSNA CROSS REFERENCE LIST

WHELEN MODEL	WHELEN P/N	CESSNA P/N	WHELEN LED EQUIVALENT MODEL #	AEROFLASH P/N	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/TAILLIGHT ASSEMBLY 14 VDC, GREEN
A600PR14	01-0790006-02	—	9034002	073-0540R	STROBE/POSITION/TAILLIGHT 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 LIST

WHELEN MODEL	WHELEN P/N	SDI/HOSKINS P/N	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 (24V)
D900287	01-0790028-07	701148-7-2	—	REMOTE STROBE LIGHT FIXTURE W/MS CONNECTOR

## WHELEN/GRIMES CROSS REFERENCE LIST

WHELEN MODEL	WHELEN P/N	GRIMES P/N	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, 6.2V, 40W
A300( )	01-0770104-( )	15-0083-( )	—	MAP LIGHT
W1512	34-0070373-01	1512	—	REFLECTOR LAMP, 12V, 21W
W1524	34-0070373-03	1524	—	REFLECTOR LAMP, 24V, 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 68

## WHELEN/GRIMES CROSS REFERENCE LIST

WHELEN MODEL	WHELEN P/N	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, 6.2V, 40W
W628	34-0070373-02	628	—	REFLECTOR LAMP, 26.5V, 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

End of Whelen/Grimes Cross Reference List

# POST LIGHT CROSS REFERENCE CHART

Breakdown	Model Number	Part Number
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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