

LIGHTING SYSTEMS

CATEGORIES OF ANTI-COLLISION STROBE SYSTEMS

CATEGORY NO. 1 Aircraft for which type certificate was applied for after April 1, 1957. These anti-collision light systems must produce a minimum of 100 effective candles in aviation red or aviation white (reference FAR 23.1397), 360° around the aircraft's vertical axis, + or -30° above and below the horizontal plane with a maximum of .5 steradians (1642 square degrees) of solid angle blockage (reference FAR 23.1401).

CATEGORY NO. 2 Aircraft for which application for type certificate was applied for after August 11, 1971. These aircraft must have an anti-collision strobe light system that produces a minimum of 400 effective candles, to the aforementioned specifications. **CATEGORY NO. 3** Aircraft for which application for type certificate was applied for before April 1, 1957, may, but need not comply, to the field of coverage requirements for FAR 23 and 27.140(b). Compliance with FAR 91.33(c)(3) may be shown provided the light installation is in accordance with date approved prior to August 11, 1971, and applicable criteria of Advisory Circular 43.13-2 chapter 4 are met. These application dates are the dates the application for production type certificate by the original manufacturer of the aircraft was requested, not the manufacture date of the aircraft.

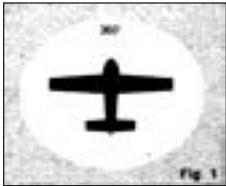
HOMEBUILT AIRCRAFT NIGHT FLYING REQUIREMENTS

For compliance to FAR 91.33(c)(2) and (3) (VFR Flight Rule Night) for homebuilt aircraft, they must comply to the aforementioned criteria. Reference to the date of issuance of operations limitations for the particular aircraft. Aircraft which operations limitations are issued prior to August 11, 1971, require only 100 effective candles for the anti-collision strobe light systems aviation red or white. Aircraft which issuance of operations limitations was after August 11, 1971, require 400 effective candles produced by their anti-collision strobe light system.

ANTI-COLLISION LIGHT DISTRIBUTION PATTERN REQUIREMENTS AND STROBE LIGHT LOCATIONS

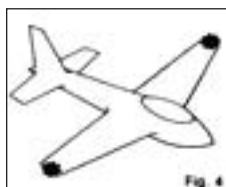
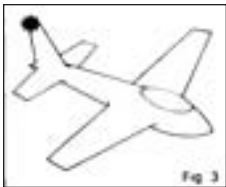
An approved anti-collision strobe light system must project light 360° around the aircraft's vertical axis. One or more strobe lights can be used.

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.



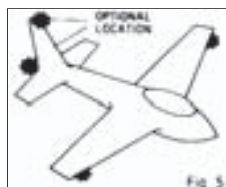
One anti-collision strobe light mounted on the vertical fin will meet the minimum requirements on most aircraft. A half red and half white lens is recommended.

Two wingtip strobe lights that protrude beyond the wingtip, their light converging in front and back of the aircraft within 1200 ft., is considered an approved anti-collision strobe light system.



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.

A fuselage mounted anti-collision strobe light system requires a minimum of two strobe lights to get the required vertical coverage. This is an approved anti-collision system.



WHELEN ENGINEERING has their anti-collision strobe light hardware approved by the Federal Aviation Administration under three supplemental type certificates.

STC SA615EA approves the installation of Whelen's anti-collision strobe light systems Models HD, DF, HR, DF, or HS, DF as replacement for original installed anti-collision lights. These three models are approved for replacing the rotating beacon or the quartz type flasher. They can be installed on aircraft where the rotating beacon or quartz type flasher were previously approved under original type design drawings, supplemental type certificate, or form 337. These three methods of approval can be used to document installations under categories number 1 and 3 systems. All of Whelen's anti-collision strobe lights are manufactured under Production Manufacturing Authority, issued by the Federal Aviation Administration. **STC SA800 EA** approved anti-collision strobe light hardware can be installed on any aircraft. Compliance to FAR 91.33(c)(3) (VFR Flight Rule Night) can be met with this hardware when installed with reference to Whelen's approved Installation and Service Manual. **STC SA21NE** approved anti-collision strobe light hardware applies to the minimum 400 effective candles requirement (category number 2) for aircraft which application for type certificate or issuance of operations limitations was after August 11, 1971. Of course, this is the brightest, most conspicuous anti-collision strobe light system, and offers the greatest in operations safety of aircraft. This anti-collision strobe light hardware can be installed in any aforementioned aircraft with reference to Whelen's approved anti-collision strobe light Installation and Service Manual.

WHELEN #1

SINGLE FLASH STROBE/POSITION SYSTEM

Designed for the very low power drain of only 4 amps. System contains:

A413AHDS-14/28: 14 to 28 volt power supply. A600PG-14: Complete wingtip strobe light with green position light and white tail position light. A600PR-14: Complete wingtip strobe light with red position light and white tail position light. HD-60: Installation kit A441: 2 amp connectors & 3 pins. A442: 2 amp connectors & 3 sockets. 600 candle 20 joules per flash Weight: 5.39 lbs.



DESCRIPTION	PART NUMBER	PRICE EACH
System #1	WH-1-14	899.41

WHELEN #3

COMET DOUBLE FLASH STROBE POSITION SYSTEM

System contains:

A413AHDACF-14/28: 14 to 20 volt power supply A650PR-14: Complete wingtip strobe and red position light assembly.

A650PG-14: Complete wingtip strobe and green position light assembly.

HD-60: Installation kit A500A-V-14:

vertical tail position strobe 660 candle 15 joules per primary flash A441: 2 amp connector and 3 pins A442: 2 amp connector and 3 sockets Weight: 5.33 lbs.



DESCRIPTION	PART NUMBER	PRICE EACH
System #3	WH-3-14	1,017.95

WHELEN #5

COMET FLASH

System contains:

A413AHDACF-14/28: Comet flash power supply. A650PR-14: Green wingtip strobe and position light assembly. A650PG-14: Red wingtip strobe and position light assembly. HD-60: installation package. A555A-V14: Tail position light. A441: Amp connectors and 3 pins. A442: Amp connectors and 3 sockets. Weight:



DESCRIPTION	PART NUMBER	PRICE EACH
System #5	WH-5-14	947.80

LIGHTING SYSTEMS

WHELEN #7

COMET FLASH

System contains:
 A413AHDACF-14/28: Comet flash power supply. A600PG-14: Green wingtip and strobe position light. A600PR-14: Red wingtip and strobe position light. HD-60: Installation package. A441: Amp connector and 3 pins. A442: Amp connector and 3 sockets. Weight:



DESCRIPTION	PART NUMBER	PRICE EACH
System #7	WH-7-14	911.55

RECOGNITION LIGHT

#70346 is a very lightweight assembly that produces up to 80,000 beam candlepower. The unit is available with optic lenses for taxiing, or clear lens for landing. 4 1/4" wide, 3" high and 2 3/4" deep. Weight: .28 lbs.



DESCRIPTION	PART NUMBER	PRICE EACH
Clear lens - 14v	70346-02	49.50
Clear lens - 28v	70346-03	49.60
Optic lens - 14v	70346-04	49.60
Optic lens - 28v	70346-05	49.60

H103 A MOUNTING ADAPTER

Designed to allow strobe light head assemblies A470 or A450 to be installed in any 3-3/4" dia. standard rotating beacon mounting. Weight .09 lb.



DESCRIPTION	PART NUMBER	PRICE EACH
A adapter	H103	37.95

H102 B MOUNTING ADAPTER

Designed to allow direct mounting of A470 or A450 strobe light head assemblies to the skin of the fuselage or to the top of a 2-1/2" dia. Cessna vertical stabilizer fairing. Weight .05 lbs.



DESCRIPTION	PART NUMBER	PRICE EACH
B adapter	H102	11.50

MODEL A315-LO COCKPIT LIGHT

Utility light unit rotates for convenience in reading maps and illuminating instrument panel. Also available with right angle bracket. Requires remote switch control. When ordering please specify voltage. 3 watt lamp. Weight .038 lb. Use GE1893 bulbs.



DESCRIPTION	PART NUMBER	PRICE EACH
14 volt	A315-LO-14	30.25
28 volt	A315-LO-28	27.49
14 volt replacement bulbs	1893B	1.25
28 volt replacement bulbs	1864B	0.79
Right angle bracket	07-230231-001	13.40

MODEL A315-HI COCKPIT LIGHT

Identical to A315-LO, except it is furnished with a blue white lens, right angle mounting bracket, and 6 watt lamp. When ordering, please specify voltage. Weight .054 lb.



DESCRIPTION	PART NUMBER	PRICE EACH
14 Volt	A315-HI-B-14	67.50
28 Volt	A315-HI-B-28	68.79
14 v replacement bulb	1414B	3.30
28 volt replacement bulb	1495B	1.31

READING LIGHT & FLOODLIGHT ASSEMBLY

READING LIGHT: Built to replace original equipment on 14 volt Piper aircraft, the A325ML is a reading light designed for passenger convenience and equipped with on/off slide switch. Stock 14 volt, 28 volt special order. FLOODLIGHT assembly for compartmental flooding and general lighting. It is equipped with a on/off switch. Stock 14 volt, 28 volt is special order.



DESCRIPTION	PART NUMBER	PRICE EACH
14 volt Reading light	A325-ML	139.99
14 volt floodlight	A325-FL	147.99

MODEL A350 POST LIGHT - INSTRUMENT

Illuminates the instrument panel and functions as one of the instrument mounting screws. The A350 can be equipped with a dimmer if desired. When ordering check voltage and color of lens. Available in red or blue white lens.



DESCRIPTION	PART NUMBER	PRICE EACH
14 Volt RED	A350CN-14R	37.30
14 Volt WHITE	A350CN-14W	37.30
28 Volt RED	A350CN-28R	37.30
28 Volt WHITE	A350CN-28W	37.30
Connector assembly	A343	15.99
Bulb (Use GE-330)	330B	0.99
Head assembly RED	A354-RD	20.95
Head assembly WHITE	A354-W	19.28
Base assembly	A358CN	26.35
Spacer	A359	9.45

A450 STROBE LIGHT HEAD ASSEMBLY

Approved under STC SA800EA. With Pyrex glass dome, designed for use in severe vibration, chemical and moisture conditions such as found on agricultural aircrafts, etc. Aviation White only. SPECIFICATIONS: Dome material Pyrex glass, Aviation White only. Exposed height 2.25", Dia. 2.50". Weight 0.3 lbs.



DESCRIPTION	PART NUMBER	PRICE EACH
Strobe head assembly	A450	103.80
Clamp ring	01-0450685-00	14.75
Amp connector	A441	8.10
Lens assembly	SA402	28.11
Flash tube	SA406	74.57
Gasket	38-0230946-00	8.90

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A470A STROBE LIGHT HEAD ASSEMBLY

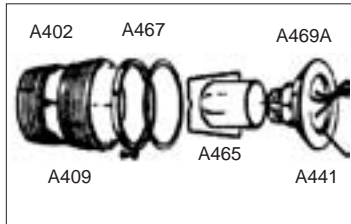
Approved under STC SA615EA. Designed to produce light 360° around the aircraft + or -30° as required. Incorporates vibration proof flash tube which allows flush mounting. Ideal for replacing quartz iodine type flasher and rotating beacons. Available with Aviation Red, Aviation White, or split Aviation Red/White optic lens. SPECIFICATIONS: Weight 0.3 lbs. Exposed height 3.75". Diameter 2.50". Lexan dome material.



DESCRIPTION	PART NUMBER	PRICE
Red lens	A402A-R	30.36
Split red/white	A402A-S	30.36
Clamp ring	01-0450685-00	14.75
RED SHIELDED ASSEMBLY	A470A-D-R	149.50
RED/WHITE SHIELDED ASBY	A470A-D-S	149.50
Gasket	A467	8.10
RED LENS STROBE ASSEMBLY	A470A-R	94.50
RED/WHITE LENS ASSEMBLY	A470A-S	94.50
WHITE STROBE HEAD ASSEMBLY	A470A-W	94.50
Radio shielded gasket	A467A	11.50
Flash tube	A469B	73.28
Amp connector	A441	8.10

A 470 OLD STYLE ASSEMBLY

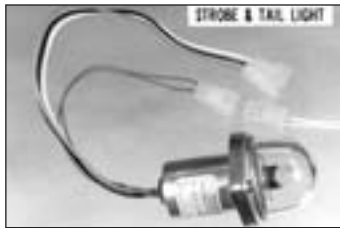
Old style strobe light head assembly. Parts still available.



DESCRIPTION	PART NUMBER	PRICE EACH
Optic lens -RED	A402-R	28.35
Optic lens - White	A402-W	28.35
Optic lens split Red/White	A402-R/W	31.50
Clamp ring	01-0450685-00	14.75
Gasket	A467	8.10
Spring	A465	9.45
Flash tube	A469B	73.28
Amp connector	A441	8.10

A500A TAIL POSITION STROBE

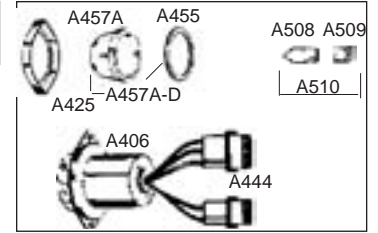
Approved under STC SA800EA and TSO-C30b. Fits directly in place of the Model S position light, providing a third strobe light for perimeter anti-collision light systems. Available with horizontal or vertical mount, radio shielded, with molex connector. 14 or 28 volt indicated by last digits of part number. Weight 0.3 lbs, Exposed height 1.75", Diameter 1.50". Dome material Aviation Whit Pyrex glass.



DESCRIPTION	PART NUMBER	PRICE EACH
Vertical mount 14v	A500A-V-14	164.76
Vertical mount 28v	A500A-V-28	154.76
Horizontal mount 14v	A500A-H-14	154.76
Horizontal mount 28v	A500A-H-28	160.16
Tail strobe lens vertical retainer	A425A-V	28.95
Tail strobe lens horizontal retainer	A425A-H	28.95
Tail light lens	A457A	31.50
Gasket	A455	7.45
Halogen lamp shield	A509	12.15
Flash tube & socket	A506	129.60
Halogen lamp 14,28	A508-14,28	24.30

A500 OLD STYLE TAIL POSITION

A500 OLD STYLE TAIL POSITION Parts still available.



DESCRIPTION	PART NUMBER	PRICE EACH
Amp connector	A441	8.10
Amp connector	A442	8.89
Flash tube & socket	A506	129.60
Halogen lamp	A508 (14,28)	24.30
Lamp shield	A509	12.15
Tail light lens	A457A	31.50
Tail strobe lens retainer	A425	18.25

MODEL A55A TAIL POSITION LIGHT

Manufactured of nonmagnetic materials, the A555 tail position lights are available in Aviation White only, horizontal and vertical mounting. Dome material is Pyrex glass. When ordering please specify 14 or 28 volts. Approved under TSO-C30b.

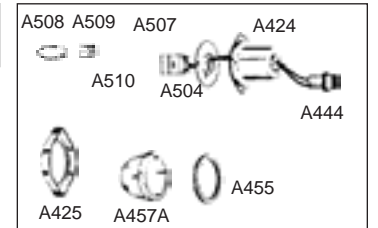


SPECIFICATIONS: Weight 0.3 lbs.; Exposed Height: 1.75"; Diameter: 1.50".

DESCRIPTION	PART NUMBER	PRICE EACH
14 volt	A555A-V14	93.85
28 volt	A555A-V28	93.85
Amp connector	A444	8.89
Lamp socket assembly	A507	18.90
Halogen lamp	A508 (14,28)	24.30
Gasket	A455	7.45
Tail light lens	A457A	31.50
Retainer mask horizontal	A425A-H	28.95
Retainer mask vertical	A425A-V	28.95

OLD STYLE A555 POSITION LIGHT

Only parts available.



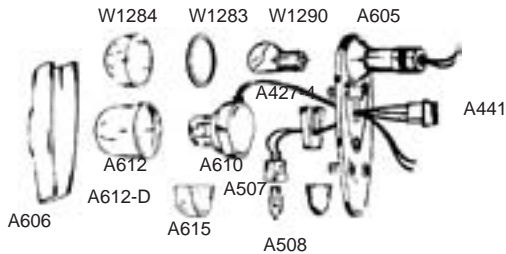
DESCRIPTION	PART NUMBER	PRICE EACH
Amp connector	A444	8.89
Lamp socket assembly	A507	18.90
Lamp shield	A509	12.15
Halogen lamp	A508 (14,28)	24.30
Gasket	A455	7.45
Tail light lens	A457A	31.50
Tail strobe lens retainer	A425	18.25

LIGHTING SYSTEMS

WHELEN

A600 STROBE POSITION SYSTEM - RED & GREEN

A600-PG and -PR complete wingtip strobe light with forward and tail position lights approved under STC SA800EA and TSO-C30b. Ready to install on the wingtip of most General Aviation type aircraft using the original 3 mounting screws. This strobe light head assembly will equip the aircraft with two tail position lights when installed on both wingtips. You may, but need not, remove your old tail position light when using the A600. SPECIFICATIONS: Weight 0.5 lbs.; Exposed Height: 2.4"; Length: 5.625"; A612 Magnifying lens.



DESCRIPTION	PART NUMBER	PRICE EACH
Green - 14v	A600PG-14	205.00
Red - 14v	A600PR-14	209.99
Green - 28v	A600PG-28	199.75
Red - 28v	A600PR-28	199.75
Amp connector	A441	8.10
Base plate assembly	A605	97.50
Gasket	A616	8.10
Halogen lamp	A508-(14,28)	24.30
Lamp socket	A507	18.90
Rubber pad spacer	A427-4	7.45
Lamp, reflector	W1290-(12, 24)	10.75
Flash tube assembly	A610	73.30
Lens	A615	32.14
Position light gasket	W1283	4.89
Position light lens	W1284-(C,G,R)	15.81
Magnifying lens	A612	28.95
Radio shielded lens	A612-D	86.80
Retainer	A606	29.00

MODEL A610/612 WINGTIP STROBE

For Cessna single engine aircraft, 1972 and later. In this system the A610 and A612 are mounted directly onto the wingtip retainer. Use the A612 as a template for cutting a hole in the existing light shield. This system requires very little time or labor to install. The A612 magnifying lens increases light intensity by two to five times in the horizontal plane. Weight: A610 - .066, A612 -.084.



DESCRIPTION	PART NUMBER	PRICE EACH
Flash tube	A610	73.30
Lens	A612	28.95

MODEL A625 WINGTIP OR TAIL STROBE LIGHT

For Cessna single engine aircraft, 1970 to 1971. SPECIFICATIONS: Weight 0.2 lbs, Exposed Height 1.406", A612 Magnifying Lens



DESCRIPTION	PART NUMBER	PRICE EACH
Tail strobe head assembly	A625	102.60
Amp connector	A441	8.10
Flash tube assembly	A627	85.00
Gasket	A629	8.75
Magnifying lens	A612	28.95
Retainer lens	A628	18.90
Radio shielded retainer lens	A628-D	72.65
Radio shielded tail strobe head	A625-D	148.20

A430 TAIL STROBE HEAD ASSEMBLY



DESCRIPTION	PART NUMBER	PRICE EACH
Tail strobe head assembly	A430	106.80
Amp connector	A441	8.10
Flash tube assembly	A435	82.95
Tail light lens	A457A	31.50
Tail strobe lens retainer	A425	18.25
Radio shielded lens	A457A-D	76.45

HID LAMPS

These PAR 36 High Intensity Discharge xenon lamps are designed to last virtually the lifetime of your aircraft. They offer many advantages over incandescent or halogen lamps, some of these being: 6x the light output at a fraction of the power consumption (<4 amps), significantly less heat production allowing them to be left on for extended time, and a whiter, more natural light. Installation requires very little modification; they are virtually a direct replacement for existing lamps. Effective range: 1,050 ft. Candlepower: 540,000. Amps: 2.95 @ 14V. Watts: 35 Average Life: 5000 hrs. For experimental aircraft only.

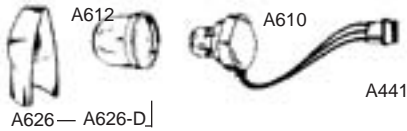


DESCRIPTION	PART NUMBER	PRICE EACH
LANDING LAMP 14V	HIDL14	339.39
TAXI LAMP 14V	HIDT14	339.00

LIGHTING SYSTEMS

A650 WINGTIP STROBE LIGHT ASSEMBLY

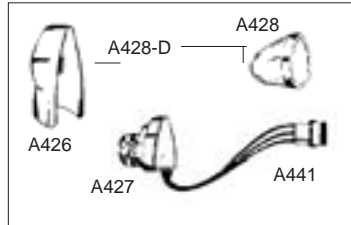
Recommended light: Two A650 Wingtip Lights. The A650 may be added to the existing TYPE E position light with a minimum of structural modification. Only a 1/4" hole in the position light is required. The wingtip strobe retainer supports the position light tip as the original retainer did. The A650 is electronically and mechanically interchangeable with the Whelen A429. SPECIFICATIONS: Weight: 0.2 lbs; Exposed Height: 2.4"; A612 Magnifying Lens.



DESCRIPTION	PART NUMBER	PRICE EACH
Wingtip strobe head assembly	A650	118.00
Amp connector	A441	8.10
Flash tube assembly	A610	73.30
Magnifying lens	A612	28.95
Retainer	A626	27.75
Radio shielded lens asby	A626-D	83.60

A429 OLD STYLE STROBE LIGHT SYSTEM

Parts still available.



DESCRIPTION	PART NUMBER	PRICE EACH
Amp connector	A441	8.10
Flash tube assembly	A427	76.50
Wingtip strobe lens	A428	35.35
Lens retainer	A426	29.70
Radio shielded lens asby	A428-D	104.15

A775 RECOGNITION LIGHT

Recognition lights feature a 35 watt lamp producing 32,000 beam candlepower. Available in 14 or 28 volt system. Specifications: Weight: 0.14 lbs, Max width: 1.75", length: 3.25", depth: 2.25".



DESCRIPTION	PART NUMBER	PRICE EACH
14 volt	A775-14	41.80
28 volt	A775-28	41.80

A650 STROBE POSITION RED & GREEN LIGHTS

A650-PG and -PR complete wingtip position and strobe light assembly approved under STC SA800EA and TSO-C80b. Ready to install on your wingtip with minimum modification to the aircraft's structure. Necessary when modifying Cessna wingtips that utilize a short position light assembly. The flash tube can be replaced without removing the position light from wingtip. This position and strobe light assembly is electrically and mechanically interchangeable with the Whelen A429-PG and -PR, and complies to FAR Part 23.1401. SPECIFICATIONS: Weight: 0.4 lbs.; Exposed Height: 2.4"; Length: 4.0"; A612 Magnifying Lens. When ordering please specify 14 or 28 volts for position lights.



DESCRIPTION	PART NUMBER	PRICE EACH
Green - 14v	A650PG-14	181.19
Red - 14v	A650PR-14	181.19
Green - 28v	A650PG-28	172.80
Red - 28v	A650PR-28	169.88
Amp connector	A441	8.10
Position light base	W1285-2	58.50
Rubber pad spacer	A427-3	7.45
Lamp reflector	W1290-(12,24)	10.75
Position light gasket	W1283	4.89
Position light lens	W1284-(C,G,R)	15.81
Flash tube assembly	A610	73.30
Retainer lens	A626	27.75
Radio shielded lens	A626-D	83.60
Lens	A612	28.95

W1250 POSITION LIGHTS RED OR GREEN

The W1250PG and W1250PR are approved position lights. They are designed to fit underneath the wing-tip fairings. Weight 0.3 lbs, length 2.75", exposed height 1.25".



DESCRIPTION	PART NUMBER	PRICE EACH
Green position	W1250PG-14	94.50
Red position	W1250PR-14	94.50

LIGHTING SYSTEMS

W1285 WINGTIP POSITION LIGHTS

The W1285PG and W1285PR are approved position lights available in Red or Green. They are manufactured of non-magnetic materials. When ordering specify 14 or 28 volts. SPECIFICATIONS: Weight: 0.2 lbs.; Exposed Height: 1.25"; Length: 4.00". Approved under TSO-C30b.



DESCRIPTION	PART NUMBER	PRICE EACH
Green - 14v	W1285PG-14	109.95
Red - 14v	W1285PR-14	109.95
Green - 28v	W1285PG-28	109.95
Red - 28v	W1285PR-28	109.95
Position light base	W1285-2	58.50
Lamp, reflector	W1290-(12,24)	10.75
Position light gasket	W1283	4.89
Position light lens	W1284-(C,G,R)	15.81
Retainer	W1282	18.25

HRCFA STROBE BEACON FLASH TUBE REPLACEMENT

The HR,CFA is a self-contained Comet Flash anticollision strobe beacon approved by the FAA as a direct replacement for any rotating beacon. It is available with Whelen's approved Red lens or split Aviation Red/White lens. Red is directed to the front reducing propeller reflection. The model HR,CFA fits any standard or fuselage adaptor previous used for rotating beacons with 3-3/4" diameter base. Specifications: Power consumption amps, @ 14 volts DC, 1.6 @ 28 volts DC. Weight: 1.5 lbs., Dia. 3.71", Height: 7.25", Flash Rate 50+/-5 FPM. Refer to A470A strobe light head assembly for replacement parts.



DESCRIPTION	PART NUMBER	PRICE EACH
Split lens red/white 14/28	HRCFA-14/28	360.00
Red lens 14/28	HRCFA-R-14/28	360.00
Flash tube replacement	73.28	\$65.39

SACF COMET FLASH SELF CONTAINED

ANTI-COLLISION STROBE LIGHT With a glass (aviation white) dome the rugged SA is idea for agricultural applications where chemicals are used. The SA,CF has an effective intensity of 300 candles in a hemisphere. Power Consumption: 3.2 amps @ 14 volts DC, 1.6 amps @ 28 volts DC. Weight 1.5 lbs, Diameter 3.71" Height 5.5", Flash Rate 50+/-5 FPM. The SA406 flash tube used in the SA,CF is a plug-in type easily replaced with minimum labor and time.



DESCRIPTION	PART NUMBER	PRICE EACH
Comet Flash	SACF-14/28	371.25
Flash tube replacement	SA406	74.57

70509 FLASHER

Totally new self-contained flashing anticollision light assembly that is FAA TSO-C96a approved. It features a rugged polycarbonate lens with internal optics, replaceable halogen lamp and flasher assemblies. Can be installed as a replacement on Cessna 1967-1979 or most general aviation aircraft, homebuilts and ultralights. A separate power pack is not needed. SPECIFICATIONS: Current Draw -2.7 amps @ 14 volts, 1.35 amps @ 28 volts. Weight - .27 lbs, Wire 20 AWG teflon, Lamp 35W Halogen Filament - CC-8 (axial) Lens - Lexan polycarbonate. Note: Lamp will continuously light if input power is reversed. Unit will not be damaged.



DESCRIPTION	PART NUMBER	PRICE EACH
14 volt red	70509-00	130.99
14 volt white	70509-01	130.99
14 volt red/white	70509-02	130.99
28 volt red/white	70509-05	130.99
Lens assembly	A402A-(W, R, S)	30.36
Clamp ring assembly	01-0450685-00	14.75
Gasket	A467	8.10
Lamp assembly 14v	02-0350433-00	32.90
Flasher assembly 14v	02-0250627-00	71.35

STROBE LIGHT ASSEMBLY

A remote streamlined strobe light assembly that can be used as a wingtip anti-collision light or a low profile ground recognition light when mounted on the vertical fin or fuselage. Includes a clear lens and mounting plate. FAA/PMA approval pending. Weight: 0.3 lbs. Exposed Height: 1.8", Length: 3.5", Width: 1.8"



DESCRIPTION	PART NUMBER	PRICE EACH
Strobe Light Assembly -Clear	70821-00	155.40
Clear Lens	A612	28.95

A440 MOUNTING ADAPTER

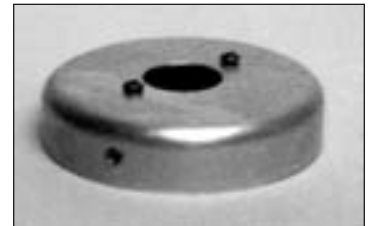
Available for fuselage installations of Models HR,CFA and SA, CF.



DESCRIPTION	PART NUMBER	PRICE EACH
Adapter	A440	20.25

MOUNTING BRACKET 11-350519-001

Bracket fits inside A440 ring. Used to adapt 70509 flasher to existing rotating beacon mount.



DESCRIPTION	PART NUMBER	PRICE EACH
Mounting bracket	11-350519-001	37.95

LIGHTING SYSTEMS

HDA COMET FLASH A413AHDADF-14/28

2, 3 and 4 Strobe light power supply. Comet Flash consists of four high-energy pulses per burst of light, 45 bursts of light per minute, per light. This high-energy envelope of rapid multiple pulses per burst delivers almost twice the visible warning protection of any other strobe design available today, without increasing power input requirements. The Comet Flash unique flash pattern provides more than four times the overall "on-time" of the light and minimizes the "dark-time" for better aircraft tracking. Comet Flash on the wingtip of your aircraft in flight appears as an extended streak of light rather than a single disjointed flash. Never before could aircraft lighting provide the trackability and peripheral visibility of Comet Flash.



HDA,CF SPECIFICATIONS: Comet Flash, FAA,PMA approved power supply, operates one, two or three strobe lights, operates from 13-30 volts, T-3 option available, form and fit is identical to HDA series power supply, Current draw: 7 amps @ 14 VDC, 3.5 amps @ 28 VDC, Weight: 2.1-lbs., Standard 2 year warranty.

DESCRIPTION	PART NUMBER	PRICE EACH
14 to 28 volts	A413AHDACF-14/28	379.89

MODEL HDS A413AHDS-14/28 POWER SUPPLY

2 STROBE LIGHT
Approved under FAA-PMA/STC SA800EA. Single flash system produces 20 joules of energy alternating between the two lights. SPECIFICATIONS: Power consumption; 4.0 amps at 14 volts 2.0 amps at 28 volts. Weight: 2.1 lbs, Length 5.50". Width 5.0" Height 2.37". Note: When used with the following strobes model HDS produces the indicated candles at 20 joules per flash (Aviation white only). A600PR/PG - 600 candles A650PR/PG - 600 candles A650 - 600 candles A625 - 600 candles



DESCRIPTION	PART NUMBER	PRICE EACH
14 to 28 volt	A413AHDS-14/28	367.75

MODEL HTSCF COMET FLASH

The HTS,CF produces an accumulated 34 joules of energy. It can be equipped to flash simultaneously with up to 5 other HTS,CF power supplies by connecting an 18 gauge wire between the synchronization mechanism in each power supply. AN 18 gauge low voltage wire supplies power to each HTS power supply. Specifications: Power Consumption - 2.4 amps @ 14 volts DC, 2 amps @ 28 volts DC. Weight: 1.5 lbs, Length 5.00", Width: 3.12", Height 3.06", Flash Rate: 50+/- FPM. (The HTS,CF replaces the model HS and is electrically and mechanically interchangeable. Recommended components: 1 A490ATSCF power supply per light, and one HT installation package per power supply.



DESCRIPTION	PART NUMBER	PRICE EACH
14/28 multi volt	A490ATSCF-14/28	299.00

ROTATING BEACON PARTS

Replacement parts for rotating beacon.

DESCRIPTION	PART NUMBER	PRICE EACH
RED LEXAN DOME LENS	WRM-10	27.00
CLEAR LEXAN DOME LENS	WRM-10CLR	26.35
CLAMP RING FOR ROT BEACON	WRM-25	19.60
GASKET FOR WRM-10 LENS	WRM-30	10.80
COVER ASSEMBLY	WRM-35	26.70

POWER SUPPLY MODEL HTC-CF

Compact single-source power supply produces an accumulated 19 joules of energy. This power supply has a mounting plate that can directly replace factory installed systems on S/E Cessnas, S/E Aero Commanders and S.E Grumman Americans. Power consumption 1.7 amps @ 14 volts DC, .85 amps @ 28 volts DC. Weight: 1.5 lbs Length 5.0", Width 3.12", Height 2.25". Flash rate 50+/- 5 FPM.



DESCRIPTION	PART NUMBER	PRICE EACH
Power supply	A490TCCF-14/28	237.00

INSTALLATION PACKAGES

Available in various cable lengths. Packages include 5 ft, 10 ft, and 30 ft, have 1 connector attached and 1 loose, 60 ft and 90 ft have 2 connectors attached and 2 loose. Additional connectors must be purchased separately.



DESCRIPTION	PART NUMBER	PRICE EACH
Cable per foot	A417-1	7.42 ft
5' cable w/ 2 connectors	HS-5	32.00
10' cable w/ 2 connectors	HT-10	31.05
30' cable w/ 2 connectors	HS-30	50.00
60' cable w/ 4 connectors	HD-60	77.70
90' cable w/4 connectors	HD-T3-90	107.35

UNIVERSAL STROBE

High quality solid state strobe unit for mounting either on tail or fuselage. 15 joules output, visible over 50 miles at night, with constant flash rate of 50 fpm. Xenon flashtube, lens and integral fuse may be replaced without removing unit from aircraft. Self grounded, single wire connection makes fast easy and safe installation. Base diameter 3.725", weight 17 oz. Current draw: 3 amps @ 14v. Includes clear lens, FAA approved for Cessna 180. By Universal Corp.



DESCRIPTION	PART NUMBER	PRICE EACH
Flight strobe 14 volt CLEAR	FS4400	107.35

XENON LAMP KIT

This extremely bright lighting system is ideal for homebuilders, sport aircraft or powered parachutes. The lamps are the high intensity discharge Xenon bulbs that have no filament in them to break. The ballasts step up the voltage to 25,000 volts which starts the lights. After the bulbs are lit, the current draw is only 3 amps per bulb. The kit includes two lamps, brackets, mounting hardware, two ballasts and a cable package. The lamp housing is only 2" x 4" with a lens of 1-1/2" diameter so they can be mounted nicely in the cowl or on the wings without disrupting the airfoil of your aircraft. The light works well for a landing light, recognition light or it can light up the parachute of your powered parachute. Order HID Xenon replacement bulb number 78400.



DESCRIPTION	PART NUMBER	PRICE EACH
LIGHTING SYSTEM	8390801	599.00
REPLACEMENT BULB	78400	71.00

LIGHTING SYSTEMS

NAV/STROBE ASSEMBLY NON PMA

Kit includes one green and one red lens assemblies and two 12 volt double flash power supplies for remote wingtip installation. For experimental aircraft only. By Aeroflash signal. NON PMA



DESCRIPTION	PART NUMBER	PRICE EACH
Nav/Strobe light assembly	156-0039DF	385.42
REPLACEMENT PARTS		
Clear dome	111-0016	20.48
Gasket	080-0018	13.34
Strobe flashtube	073-0270	39.83
Red nav lens	111-0066	18.41
Green nav lens	111-0067	18.41
12 v nav lamp	040-0048	39.38
O-ring	080-0007	3.26

WINGTIP STROBE SET

Set includes two 12 volt power supplies and light assemblies. Lenses are EMI coated. Light assemblies install separately from existing nav lights.



DESCRIPTION	PART NUMBER	PRICE EACH
Wingtip strobe set	156-0010	289.90
REPLACEMENT PARTS		
Strobe flashtube	073-0171	37.83
Gasket	080-0017	5.79
EMI coated dome	111-0018	20.48

PIGGYBACK WINGTIP STROBE SET

Set includes 2 power supplies, 2 strobe tubes, lenses and retainers. Mounting power supplies in each wingtip avoids running high voltage wiring past fuel tanks. Strobe assemblies piggyback onto standard e-series nav lights. 12 volt FAA approved.



DESCRIPTION	PART NUMBER	PRICE EACH
Wingtip strobe set	156-0003	272.67
REPLACEMENT PARTS		
Strobe flashtube	073-0270	39.83
Gasket	080-0018	13.34
Clear dome	111-0016	20.48

FUSELAGE MOUNT STROBE SET

Includes one 12 volt power supply, one cable assembly, and one light assembly with mounting plate.



DESCRIPTION	PART NUMBER	PRICE EACH
Fuselage strobe set	156-0017	155.95
REPLACEMENT PARTS		
Gasket	080-0008	12.48
Strobe flashtube	073-0141	30.03
Clear lens	111-0004	13.67
Gasket	080-0001	6.95

NAV LIGHT ASSEMBLY

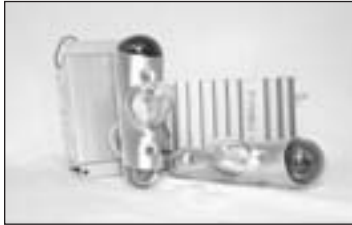
Non PMA for experimental aircraft only. 12 volt available in green or red lens. By Aeroflash signal.



DESCRIPTION	PART NUMBER	PRICE EACH
Green 12 volt	073-0529G12	60.05
Red 12 volt	073-0529R12	60.05

NAV/STROBE/POSITION ASSEMBLY NON PMA

Kit includes one green and one red lens assemblies and two 12 volt double flash power supplies for remote wingtip installation. Power supply weight: 1 lb, 2.3 oz. Max current draw: 3.8 to 6.0 amps. For experimental aircraft only. By Aeroflash Signal - NON PMA



DESCRIPTION	PART NUMBER	PRICE EACH
Nav/Strobe /Position assembly	156-0049DF	474.99
REPLACEMENT PARTS		
Wingtip strobe lens	111-0016	20.48
Gasket	080-0018	13.34
Strobe flashtube	073-0270	39.83
Red nav lens	111-0066	18.41
Green nav lens	111-0067	18.41
Position lamp lens	111-0015	28.35
12v position lamp lens	040-0002	19.90
12v nav lamp	040-0048	39.38
O-ring	080-0007	3.26

AEROFLASH TAIL STROBE POSITION ASSEMBLY

Non PMA kit includes one 12 volt clear lens assembly and one 12-volt single flash remote power supply. Output: 10 joules. Flash rate: 45+/- per min. For experimental aircraft only. By Aeroflash Signal.



DESCRIPTION	PART NUMBER	PRICE EACH
Tail strobe/position light assembly	156-0029SF	231.22
Replacement parts		
EMI-Clear Glass Dome	111-0018	20.48
Gasket	080-0017	5.79
Flashtube w/position lamp	073-0173-12	111.50

LIGHTING SYSTEMS

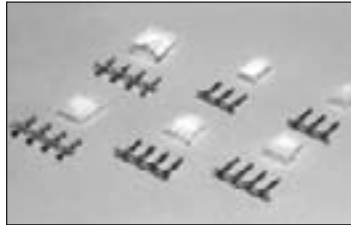
AEROFLASH INSTALLATION CABLE

3 wire installation cable for Aeroflash strobe units. Attached standard male and female amp connectors included. 15 ft long.



DESCRIPTION	PART NUMBER	PRICE EACH
15 ft installation cable	073-0185	23.12

CONNECTORS



DESCRIPTION	PART NUMBER	PRICE
Amp connector 2 pins - male	A444	8.89
Amp connector 2 pins - female	A446	8.89
Amp connector & 3 pins	A441	8.10
Amp connector & 3 sockets	A442	8.89
MOLEX for PIPER: Connector & 3 pins	M441	8.79
MOLEX for PIPER: Connector & 3 sockets	M442	8.75

INSTRUMENT LIGHTING ACCESSORIES

Bulbs - 12 or 24 volt.
Sockets - light diffusers choice of green or red.
Terminals - push on, for all spade type terminals.



DESCRIPTION	PART NUMBER	PRICE EACH
12v-2W	MAI-600802	3.35
24v-3W	MAI-600807	3.35
Sockets	MAI-600813	3.25
Terminal	MAI-600812	1.25

MODEL A315-LO COCKPIT LIGHT

Unit rotates for convenience in reading maps and illuminating instrument panel. Also available with right angle bracket. Requires remote switch control. When ordering please specify voltage. 3 watt lamp. Weight .038 lb. Use GE1893 bulbs. A315-HI is identical to A315-LO, except it is furnished with a blue white lens, right angle mounting bracket, and 6 watt lamp. When ordering, please specify voltage. Weight .054 lb.



DESCRIPTION	PART NUMBER	PRICE
14 VOLT	A315-LO-14	30.25
28 VOLT	A315-LO-28	27.49
BULB FITS A315-LO-14	1893B	1.25
BULB FITS A315-LO-28	1864B	0.79
BRACKET A315LO-14&28	07-230231-001	13.40
14 VOLT LIGHT	A315-HI-B-14	67.50
28 VOLT LIGHT	A315-HI-B-28	68.79
BULB A315-HI 14 VOLT	1414B	3.30
BULB A315HI-28 VOLT	1495B	1.31

LED LIGHTS

This versatile light can be used to illuminate the panel or repositioned to light your chart. 110 degree adjustable angle 360 degree rotation led technology that last longer and draws less than 1 amp. This light comes in two versions. One has four red led's, and the other has two white and two red led's that can be lighted separately with a spdt switch. (sold separately) It is available in 14 or 28 volt versions. The lights are 3/4" diameter 15/8" tall when straight 7/8" tall when at 90 degrees. The mounting stud is 1/4" diameter, and will accept up to .200 thick mounting surface or there is an optional flush mount adapter.



SIZE	USE WITH	PART NUMBER	PRICE
14		754R-14V	47.95
28		754R-28V	54.99
14	155 ADAPTER	754RW-14V	59.99
28	155	754RW-28V	58.99

LED RECOGNITION /BELLY STROBE

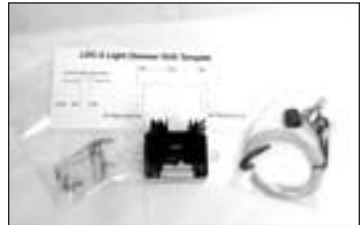
A fuselage mounted belly strobe/LED recognition light assembly designed for use with the LED3 lighting system. The recognition light is composed of 12 hi-intensity, narrow beam white LED's with a total output of 120 cp., and is contained in a fire-retardant low-drag housing together with a strobe light. LED current draw: 100 mA. For 13.8-14.5V



DESCRIPTION	PARTNUMBER	PRICE
BELLY STROBE	LEDLS	\$99.98

LIGHT DIMMER ASSEMBLY

A solid-state instrument panel light dimmer assembly designed for new installations or as replacement for rheostats. Advantages include short circuit overload protection, cool operation, & thermal shut down. The maximum continuous current rating is 1 amp; as a result, the dimmer can safely operate up to 12 average 14V post lights. Installation requires 18 ga wire & 2A inline fuse/circuit breaker. 12-28 VDC. Size: 2.5"H x 2"W x 1.8"D. 3 yr mfg. warranty



DESCRIPTION	PARTNUMBER	PRICE
12-28 VDC	LDC2	79.95

UMA LIGHT INVERTOR

This 12-14 Volt light inverter is made by UMA Inc. The Wire Code is Green/Black. This product should be mounted against a piece of sheet metal such as the panel or firewall. The inverter has four leads.



DESCRIPTION	PARTNUMBER	PRICE
12-14 Volt	10-700-14	39.99

LIGHTING SYSTEMS

IGNITION SWITCH

Key operated provides ON & OFF (left, right, both, start) electrical control of both magnetos on single engine aircraft. Mounts from rear of panel 7/8" diameter hole. Switch plate furnished. Wire connections are screw terminals. Kit also available with two locks (door and baggage) mated for single key.

Service kit includes: small diode washer, 3 triangular contacts, starter terminal board, grease pack diode assembly and instructions. Diode assembly with grease pack may be purchased separately.



DESCRIPTION	PART NUMBER	PRICE EACH
Switch -Starter Position	A510-2	99.99
Switch -No Start Position	A510-5	85.90
Switch kit -Starter Position	A510-2K	125.00
Switch kit -No Start Position	A510-5K	125.98
Switch service kit	A-3650-2	21.50
Diode assembly	16050-2	9.24
Switch faceplate with start position	A-2255A	2.55

MINIATURE EYEBALL COCKPIT LIGHT

Low intensity light for continuous use as chart or instrument light. Black acrylic ball with .191" aperture rotates in an ABS housing for full swivel adjustment. 1 1/2" dia. overall, mounts with 3 screws. Wt. 1/2 oz. Power consumption 1.12 watts at 12v 3500 hour bulb life (apx.). Light is white.



DESCRIPTION	PART NUMBER	PRICE EACH
Cockpit light	MOD-1	13.85

INDICATOR LIGHT: GEAR UP/GEAR DOWN

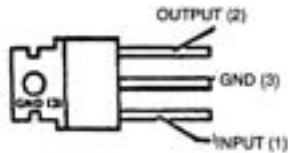
Two assemblies, red, and green with removable lenses. 1" long, takes threaded E-4 lamps. Requires 7/16" mounting hole. Sold as set only. Bulbs included.



DESCRIPTION	PART NUMBER	PRICE EACH
Assembly	GW-326	9.83

VOLTAGE REGULATOR

5 volt, 1 amp features internal thermal overload protection with stable fixed output voltage. Maximum rating - 35v, operating temp. - 0° to +70°C. For use with KPS Servo.



DESCRIPTION	PART NUMBER	PRICE EACH
voltage regulator	276-1770	2.75

REPLACEMENT BULB

12 volt or 75 milli amp, for use in GW-326 assembly.



DESCRIPTION	PART NUMBER	PRICE EACH
Bulb	E-4	1.75

GE REPLACEMENT POST LIGHT BULBS

(Micro Lamp, Chicago Miniature, Sylvania, GE)



DESCRIPTION	PART NUMBER	PRICE EACH
28v, Post light	327B	0.79
14v, Post light	330B	0.99
14v, Post light	336B	1.48
14v	1893B	1.25
Bulb fits A315H	1414B	3.30

SEALED BEAM LAMPS

For use in landing and taxi lights. Use with A715 landing light bracket. (Sylvania, GE, Phillips)



SIZE	VOLTS	WATTS	CANDLE POWER	PART NUMBER	PRICE EACH
4-1/2"	13	100	110,000	4509L	11.99
4-1/2"	13	250	150,000	4313L	23.85
5-3/4"	13	250	290,000	4522L	30.22
5-3/4"	28	250	3000,000	4553L	22.60

A715 LANDING LIGHT BRACKET

Standard equipment on new Beechcraft and will retrofit into older aircraft as well. Accommodates PAR 36 lamp. Lamp element sold separately. Specifications: Weight: 0.5 lbs, diameter: 4.75", length: 6.5" depth: 2.12".



DESCRIPTION	PART NUMBER	PRICE EACH
Light bracket	A715-1	136.80

WESTACH LIGHT KIT

Internal lighting kit for Westach instruments. Includes light assembly, red & green light diffusers, and bases for 2-1/4" or 3-1/8" instruments. 12Volt.



DESCRIPTION	PART NUMBER	PRICE EACH
INTERNAL LIGHT KIT	186	\$4.35