

LIGHTING • ELECTRICAL SYSTEM

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Concorde Batteries

Aircraft Application Guide for Concorde Batteries

The applicability data in the chart below is basic. Please contact Univair for exact make/model applicability prior to purchasing a battery. Some installations may require airframe or battery box modifications. Local field approval, logbook entry, or STC may also be required. This is not a complete listing of all available applications.

Aircraft Make/Model	Concorde Battery
■ AMERICAN CHAMPION (AERONCA, CITABRIA)	
7ECA, 7GCAA, 7KCAB, 8GCBC, 8KCAB	RG-25
■ CESSNA	
120, 140, 140A	RG-25
150 and 152 Series	RG-25XC
170 thru 177 Series	RG-35
180 thru 188 Series	RG-35AXC
190 and 195 Series	
206, 207, 210 Series	
303, 305, 310, 320, 335, 337, 340 Series	
401, 402, 404, 411, 414, 421 Series	
■ MAULE	
M-4, M-5, M-6, M-7, M-8, MT-7, MX-7, MXT-7	RG-35A RG-35AXC
■ MOONEY	
M20, M20A through G, M20J (S/N 24-0001 to 24-2999), M20K (S/N 25-0001 to 25-0999)	RG-35AXC

Aircraft Make/Model

Concorde Battery

■ PIPER

PA-12, PA-18, PA-18A, PA-19	RG-25
PA-20, PA-22, PA-23, PA-24, PA-25, PA-28	RG-25XC
PA-30, PA-31, PA-32, PA-34, PA-36, PA-38, PA-39	RG-35A
PA-40, PA-44, PA-46, PA-60, PA-400	RG-35AXC

■ UNIVAIR

Ercoupe 415 Series	RG-25
Forney F-1A	
Alon A-2, A-2A	
Mooney M-10	
Stinson 108, 108-1, -2, -3, -5	RG-35A

RG-25 Battery

- Voltage: 12 volts
- Rated Capacity: 22.00Ah
- IPP (23°C/74°F): 700A
- IPR (23°C/74°F): 500A
- Dimensions: 5.18"L x 7.71"W x 6.81"H
- Weight: 22.75 lb



Concorde Battery RG-25 **\$368.00**

RG-25XC Battery

- Voltage: 12 volts
- Rated Capacity: 24.00Ah
- IPP (23°C/74°F): 850A
- IPR (23°C/74°F): 600A
- Dimensions: 5.18"L x 7.71"W x 6.81"H
- Weight: 23.5 lb



Concorde Battery RG-25XC **\$429.00**

RG-35A Battery

- Voltage: 12 volts
- Rated Capacity: 29.00Ah
- IPP (23°C/74°F): 1000A
- IPR (23°C/74°F): 800A
- Dimensions: 5.17"L x 9.78"W x 6.83"H
- Weight: 29.5 lb



Concorde BatteryRG-35A**\$479.00**

RG-35AXC Battery

- Voltage: 12 volts
- Rated Capacity: 33.00Ah
- IPP (23°C/74°F): 1200A
- IPR (23°C/74°F): 900A
- Dimensions: 5.17"L x 9.78"W x 6.83"H
- Weight: 32 lb



Concorde BatteryRG-35AXC**\$512.00**

Power Supplies

Description	Part #	Price
Whelen Power Supply with Military Connectors	01-0790079-04	\$1,464.84
Whelen Power Supply, 2 Outlet, 28V	01-0770899-00	\$760.50

Whelen Power Supply – Model HDA-CF

The HDA-CF is the finest power supply system available. It has the capacity for simultaneous flashing, alternate flashing, or both. A 2-light system alternate flashing produces 25 joules to each light. A 2-light system simultaneous flashing produces 12 joules to each light. A 3-light system produces 12 joules to each simultaneous light, and 25 joules to the third light. A 4-light system produces 12 joules of energy to each light. The HDA-CF requires a special 3-conductor cable cord routed from the power supply to the light assemblies.



Specifications: Power Consumption: 7.0 amps @ 14 volts DC, 3.5 amps @ 28 volts DC • Weight: 3 lb • Length: 5.5" • Width: 5" • Height: 3.25" • Flash Rate: Alternately at 90+/- 5FPM, Simultaneously at 50 +/- 5FPM

Power Supply HDA-CFA413AHDA-CF**\$955.50**

Recommended Components – Priced and Sold Separately

For 2 Lights: (x1) 60 Foot Wiring Installation PackageHD-60**\$204.36**
 For 3 Lights: (x1) 90 Foot Wiring Installation PackageHD,T3-90**\$280.80**
 For 4 Lights: (x2) 60 Foot Wiring Installation Packages.....HD-60**\$204.36**

See our website for complete list of components included in each kit.

Whelen Power Supply – Model HT-CF

**FAA-PMA
APPROVED**

Whelen's most compact, single-source power supply produces an accumulated 19 joules of energy.



Specifications: Power Consumption: 1.7 amps @ 14 volts DC, .85 amps @ 28 volts DC
 • Weight: 1.2 lb • Length: 5.0" • Width: 3.12"
 • Height: 2.25" • Flash Rate: 50+/-5FPM

Power Supply HT-CFA490T-CF-14/28**\$877.50**

Whelen Power Supply – Model HTS-CF

The HTS-CF produces an estimated 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 mechanisms in each power supply. An 18 gauge low voltage wire supplies power to each HTS power supply.



Specifications: Power Consumption: 4.0 amps @ 14 volts DC, 2.0 amps @ 28 volts DC • Weight: 1.7 lb • Length: 5.0" • Width: 3.12" • Height: 3.06"

Power Supply HTS-CFA490ATSCF14/28**\$877.50**

Interior and Cockpit Lighting

A300 Whelen Map Reading Light

- Designed for indirect cockpit illumination
- Slide switch permits direct chart reading
- Available with red or instrument white lens



Specifications: 6 watt lamp • Diameter: 4.125" • Depth Behind Mounting Flange: 1.06" • Weight: 0.16 lb

Map Reading Light

14 Volt, White LensA300-14**\$333.06**
 14 Volt, Red Lens.....A300-14-R**\$299.52**
 28 Volt, White LensA300-28**\$333.06**

A1719 Grimes Map Light

- Specify 12 or 24 volt when ordering
- Will mount over instruments or any place convenient in the cockpit



Map LightA1719**\$43.90**

70820 Series LED Map Light

- Long life (approximately 20,000 hours)
- Reduced power consumption compared to alternative light sources
- Shock and vibration resistant
- For cabin or cockpit illumination
- 360° swivel base



Specifications: Current draw: 0.02 amps @ 14 VDC, 0.02 amps @ 28 VDC • Weight: 0.19 lb

Natural Aluminum Finish, White LED, 14 volt.....	01-0770820-00	\$226.98
Natural Aluminum Finish, White LED, 28 volt.....	01-0770820-01	\$226.98
Black Anodized Finish, White LED, 14 volt.....	01-0770820-02	\$226.98
Black Anodized Finish, Red LED, 14 volt	01-0770820-04	\$226.98
Black Anodized Finish, Red LED, 28 volt	01-0770820-05	\$226.98

70339 Dome Flood and Compartment Light

- For recessed overhead or wall mounting with minimal depth
- Comes in your choice with or without an on/off switch



Specifications: 6 Watt Lamp • Diameter: 4.125" • Depth Behind Mounting Flange: 1.06" • Weight: 0.16 lb

14 Volts DC, no switch.....	70339-01	\$243.36
28 Volts DC, no switch.....	70339-02	\$243.36
14 Volts DC, with switch.....	70339-03	\$273.00
28 Volts DC, with switch.....	70339-04	\$273.00

A315-L0 Cockpit Utility Light

Unit rotates for convenience in reading maps and illuminating instrument panel. Optional right angle bracket available for ease of mounting.

Cockpit Utility LightA315-L0-14..... **\$54.60**



A315-HI Cockpit Utility Light

This cockpit utility light rotates for convenience in reading maps and illuminating instrument panels. Furnished with right angle bracket for ease of mounting.

WhiteA315-HI-14-W **\$120.12**



A350 Instrument Post Light

Illuminates the instrument panel and functions as one of the instrument mounting bolts. The A350 can be equipped with a dimmer if desired.

14 Volt..... A35014SC..... **\$66.30**



External Lighting

Grimes Wing Lights



1) Grimes Type B Wing Light	
Red Lens.....	A2430-2R-94 \$397.47
Green Lens	A2430-2G-94 \$397.47
2) Grimes Type A Wing Light	
Red Lens.....	A1228-1R-93 \$435.66
Green Lens	A1228-1G-93 \$435.66
Grimes Type A, B, C	
Lens Bail.....	A1234 \$9.00
Lens Gasket	A1232 \$1.78

Whelen Landing Light Mount

**FAA-PMA
APPROVED**

Standard equipment on new Beechcraft, and will retrofit into older aircraft as well. Accommodates PAR36 lamp, sold separately.

Specifications: Weight 0.4 lb • Diameter 4.75" • Length 6.5" • Depth 2.12"

Landing Light..... A715-1 **\$343.20**

PAR36 Landing Light, 14 Volt, 60,000 CP	01-0771833-10	\$301.86
PAR36 Taxi Light, 14 Volt, 15,000 CP	01-0771833-15	\$301.86



70509 Whelen Halogen Flashing Anti-Collision Light

- FAA TSO-C96A approved
- Completely self-contained – separate flasher power pack is not needed
- Weight: 0.27 lb (122 gm)
- Height: 3.75" (95 mm)
- Diameter: 2.65" (67 mm)
- Lamp: 35 watt halogen
- Power Consumption: 2.7 amps @ 14 VDC, 1.3 amps @ 28 VDC



Description	Part #	Price
28 Volt Flasher Assembly (Red/White)	01-0770509-05	\$503.10
28 Volt Flasher Assembly (Red)	01-0770509-03	\$503.10
28 Volt Replacement Lamp	02-0350433-01	\$128.70
14 Volt Flasher Assembly (Red/White)	01-0770509-02	\$503.10
14 Volt Flasher Assembly (White)	01-0770509-01	\$503.10
14 Volt Flasher Assembly (Red)	01-0770509-00	\$503.10
14 Volt Replacement Lamp	02-0350433-00	\$128.70

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Whitaker Mount

For installation of Grimes and Whelen rotating beacon or strobe light on rudder. STC approved on Piper PA-11 to PA-25.

AW221\$523.69



A450 Whelen Strobe Head

- Designed for use in severe vibration, chemical and moisture conditions.
- Dome: Glass, Clear
- Weight: 0.3 lb (136 gm)
- Exposed Height: 2.25" (57 mm)
- Diameter: 2.5" (64 mm)



Whelen Strobe Head AssemblyA450\$435.24

Replacement Parts

Lens, Clear.....SA402\$280.02
Clamp Ring Assembly, Nylon01-0450685-00\$24.96
Flash Tube AssemblySA406\$235.56

A430 Whelen Tail Strobe Light

Tail Strobe Assembly
A430\$247.26



Replacement Parts

Lens RetainerA425\$29.64
Lens, WhiteA457A\$75.66
Gasket (A455)38-0230002-00\$17.94
Flash Tube AssemblyA435\$235.56

A555A Whelen Tail Position Light

For LED replacements, see the new Orion500 Series lighthead from Whelen on page 205.

- Manufactured of non-magnetic materials
- Dome: Pyrex glass, Aviation White
- Weight: 0.3 lb
- Exposed Height: 1.75"
- Diameter: 1.5"



Horizontal Installation, 14 Volt.....A555A-H-14\$148.59
Horizontal Installation, 28 Volt.....A555A-H-28\$148.59
Vertical Installation, 14 Volt.....A555A-V-14\$148.59
Vertical Installation, 28 Volt.....A555A-V-28\$148.59

Replacement Parts

Lens Retainer, Vertical MountA425A-V\$50.70
Lens, Clear.....A457A\$75.66
Gasket (A455)38-0230002-00\$17.94
Halogen Lamp, 14 Volt, 25 Watt.....A508-14\$46.02
Halogen Lamp, 28 Volt, 25 Watt.....A508-28\$46.02

A500A Whelen Tail Position/ Strobe Light

For LED replacements, see the new Orion500 Series lighthead from Whelen on page 205.

- Combination strobe/tail navigation light
- Provide 360° of strobe coverage
- Direct replacement for the standard tail position light
- Weight: 0.3 lb (136 gm)
- Exposed Height: 1.7" (43 mm)
- Diameter: 1.5" (38 mm)



Strobe Light, Horizontal Installation, 14 VoltA500A-H-14\$215.28
Strobe Light, Horizontal Installation, 28 VoltA500A-H-28\$201.24
Strobe Light, Vertical Installation, 14 Volt.....A500A-V-14\$215.28
Strobe Light, Vertical Installation, 28 Volt.....A500A-V-28\$215.28

Replacement Parts

Lens Retainer, Vertical MountA425A-V\$50.70
Lens, WhiteA457A\$75.66
Gasket (A455)38-0230002-00\$17.94
Halogen Lamp, 14 Volt, 25 Watt.....A508-14\$46.02
Halogen Lamp, 28 Volt, 25 Watt.....A508-28\$46.02

Replacement Parts for A429 Wing Tip Strobe

The Whelen model A429 has been superseded by model A650. The following replacement parts are still available for A429.

Lens RetainerA426\$135.72
Wingtip Lens for A427A428\$140.40
Strobe Tube AssemblyA427\$131.82
GasketW1283\$23.40
Reflector Lamp, 14 Volt, 26 Watt.....W1290-14\$97.50
Reflector Lamp, 28 Volt, 26 Watt.....W1290-28\$97.50
Lens, GreenW1284-G\$88.14
Lens, Red.....W1284-R\$88.14
Base Plate AssemblyW1285-2\$166.14

Whelen Strobe Tube Assembly and Lens

FAA-PMA
APPROVED

- Applicability: 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 the light intensity by two to three times in the horizontal plane.

Strobe Tube AssemblyA610\$131.82
Magnifying Lens, Clear.....A612\$70.98



A610



A612

**Visit www.univair.com for
our complete inventory of internal
and external aircraft lighting.**

W1250 Whelen Position Light

- TSO-C30b Approval

The W1250PG and W1250PR are approved position lights. They are designed to fit underneath the wingtip fairings.

Specifications: Weight: 0.3 lb • Exposed height: 1.25" • Length: 2.75"



Red LED Light, 14 Volt	01-0771379-12	\$315.90
Green LED Light, 14 Volt	01-0771379-11	\$315.90
Green Light	W1250PG-14	\$196.56

Whelen LED Wingtip and Tail Position Lights

- LED Power Consumption: 0.25 Amps @ 14V
- LED Color: Aviation Green or Red
- Weight: 0.20 Lbs 14V
- Exposed Height: 2.70"
- Lens: Clear Polycarbonate



71105 series are fully FAA TSO compliant Forward Position lights. LEDs provide a significant reduction in electrical current draw over conventional light bulbs. Direct replacement for Whelen Model W1285 series.

Red Light	01-0771105-02	\$344.76
Green Light	01-0771105-01	\$344.76



Replacement parts below are for the old non-LED lights, part numbers W1285PR-14 and W1285PG-14.

Replacement Parts

Lens Retainer/Cover	W1282	\$89.70
Lens, Red	W1284-R	\$88.14
Lens, Green	W1284-G	\$88.14
Reflector Lamp, 14 Volt, 26 Watt	W1290-14	\$97.50
Reflector Lamp, 28 Volt, 26 Watt	W1290-28	\$97.50
Gasket	W1283	\$23.40
Base Plate Assembly	W1285-2	\$166.14

A625 Whelen Strobe Light



- For aircraft with wingtip tanks
- For aircraft with enclosed position lights
- Use as an add-on strobe on the wing or the tail
- Weight: 0.2 lb (91 gm)
- Exposed Height: 1.7" (43 mm)



Strobe Light Assembly, Clear Lens A625	\$267.54
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Replacement Parts

Magnifying Lens	A612	\$70.98
Flash Tube Assembly	A627	\$206.70

A470A Whelen Strobe Light

PLEASE NOTE: Model A470A lenses can NOT be used as replacements for the old cone-shaped lenses, model A402. If you have any questions, please contact our customer support team at 1-888-433-5433 and we will be happy to help you determine which style lens your aircraft requires.



- Compatible with all Whelen power supplies
- Can be installed on the fuselage or the vertical fin
- Provides maximum 360 degrees of uniform light coverage
- All assemblies require either the model H102 or H103 mounting adapter

Strobe Light Assembly, Red Lens	A470A-R	\$296.40
White Lens	A470A-W	\$276.90
Split Red/White Lens	A470A-S	\$276.90
"A" Mounting Adapter, 2.5" Diameter	H102	\$29.64
"B" Mounting Adapter, 3.75" Diameter	H103	\$109.20

Replacement Parts

Optic Lens, Red	A402A-R	\$70.98
White	A402A-W	\$70.98
Red/White Split	A402A-S	\$70.98
Clamp Ring Assembly, Nylon	01-0450685-00	\$24.96
Gasket, 2.5" diameter, .046" thick	A467	\$17.94
Flash Tube Assembly	A469B	\$202.02
3 Position Male Connector with Pins	A441	\$16.38

A402 Replacement Parts

PLEASE NOTE: Model A402 lenses are NOT interchangeable with the new bell-shaped lenses, model A470A. If you have any questions, please contact our customer support team at 1-888-433-5433 and we will be happy to help you determine which style lens your aircraft requires.



Cone Shaped Optic Lens, Red	A402-R	\$70.98
White	A402-W	\$70.98
Red/White Split	A402-R/W	\$70.98
Clamp Ring Assembly, Nylon	01-0450685-00	\$24.96
Gasket, 2.5" diameter, .046" thick	A467	\$17.94
Flash Tube Assembly	A469A-D	\$333.84
3 Position Male Connector with Pins	A441	\$16.38

Whelen Replacement Connectors



Kit, 3 Position Male Connector with Pins	A441	\$16.38
Kit, 3 Position Female Connector with Sockets	A442	\$17.16

A600 PG/PR Series Whelen Strobe Light

For LED replacements, see the new Orion600 Series lightheads from Whelen on page 205.

- Ready to install forward and tail position lights
- Weight: 0.5 lb
- Exposed Height: 2.4"
- Length: 5.625"
- Lens: A612 clear magnifying lens
- Specify 14 or 28 volts when ordering



Strobe Light Assembly, Red (A600-PR-14)	01-0790340-02	\$952.38
Strobe Light Assembly, Green	A600-PG-14	\$442.85

Replacement Parts

Lens Retainer	A606	\$91.26
Magnifying Lens, Clear	A612	\$70.98
Flash Tube Assembly	A610	\$131.82
Lens, Green	W1284-G	\$88.14
Red	W1284-R	\$88.14
Clear	A615	\$131.82
Halogen Lamp, 14 Volt, 25 Watt	A508-14	\$46.02
28 Volt, 25 Watt	A508-28	\$46.02
Gasket	W1283	\$23.40
Reflector Lamp, 14 Volt, 26 Watt	W1290-14	\$97.50
28 Volt, 26 Watt	W1290-28	\$97.50

A650 PR/PG Whelen Wingtip Strobe Light

For LED replacements, see the new Orion 650E Series lightheads from Whelen on page 205.

- Can be used to convert non-Whelen position lights into a position/anti-collision light system
- Weight: 0.6 lb (272 gm)
- Position Lamp Power Consumption: 2 Amps @ 14 VDC; 1 Amp @ 28 VDC
- Exposed Height: 2.4" (61 mm)
- Length: 4.0" (102 mm)
- Width: 1.7" (43 mm)



Red Light, 14 Volt	A650-PR-14	\$819.00
Red Light, 28 Volt	A650-PR-28	\$819.00
Green Light, 14 Volt	A650-PG-14	\$819.00
Green Light, 28 Volt	A650-PG-28	\$819.00

Replacement Parts

Lens, Red	W1284-R	\$88.14
Green	W1284-G	\$88.14
Gasket	W1283	\$23.40
Reflector Lamp, 14 Volt, 26 Watt	W1290-14	\$97.50
28 Volt, 26 Watt	W1290-28	\$97.50
Lens Retainer	A626	\$72.54
Magnifying Lens, Clear	A612	\$70.98
Flash Tube Assembly	A610	\$131.82
Base Plate Assembly	W1285-2	\$166.14

A650 Whelen Wingtip Strobe Assembly

- Converts existing Whelen W1285 position lights into a position/anti-collision light system
- Weight: 0.2 lb (91 gm)
- Exposed Height: 2.4" (61 mm)



Wingtip Light	A650	\$146.25
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Replacement Parts

Lens Retainer	A626	\$72.54
Magnifying Lens, Clear	A612	\$70.98
Flash Tube Assembly	A610	\$131.82

Strobe Light Bracket

- Can be used on the top of Piper rudders
- FAA field approval required



Strobe Light Bracket	U15722-002	\$173.05
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Navigation Light Fairing

This fairing is required to convert model B type wing lights to the more streamlined model E navigational lights on Ercoupe 415-C, -D, and -G.



F14081	\$227.39
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Whelen Mounting Adapters

These adapters are designed for the A470A, A450 and 70509. The H103 (shown on top) is designed to allow strobe light head assemblies to be installed in 3¾" diameter standard rotating beacon mounting. The H102 (shown on bottom) allows direct mounting of the strobe light head assembly to the skin of the frame or the top of a 2½" diameter Cessna vertical stabilizer fairing.



Whelen A Mounting Adapter (shown top)	H103	\$109.20
Whelen B Mounting Adapter (shown bottom)	H102	\$29.64

- Available for frame installations of models HR-CFA and SA-CF

Mounting Adapter	A440	\$62.40
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Order online at www.univair.com

Orion500 Series Lightheads

- Mounts on tail
- Direct replacement for legacy A500A models
- Eliminates need for external power supplies
- Reduces current draw and provides thousands of hours of operation



Specifications: Weight: 0.29 lb • Current Draw: 0.2/0.1
amps Position, 0.72/0.36 amps avg. ACL • Position LED Color: Aviation White •
Lens: Clear polycarbonate hardcoat, field replaceable

Tail PTA Light, White, 12 Volt01-0771774V01**\$514.80**
Tail PTA Light, White, 28 Volt01-0771774V02**\$514.80**

Orion600 Series Lightheads

- Mounts on wingtip
- Incorporates the latest state-of-the-art LED technology in an all-inclusive package
- Eliminates the need for external flasher boxes
- Flush mountable for a wide variety of applications with minimal integration
- Easily retrofits Whelen legacy strobe products



Wingtip PTA, Green, 12 Volt 01-0771733-01**\$713.70**
Wingtip PTA, Red, 12 Volt 01-0771733-02**\$713.70**
Wingtip PTA, Green, 28 Volt 01-0771733-11**\$713.70**
Wingtip PTA, Red, 28 Volt 01-0771733-12**\$713.70**

Orion650 Series Position/ACL

- Mounts on wingtip
- Incorporates the latest state-of-the-art LED technology in an all-inclusive package
- Eliminates the need for external flasher boxes
- Flush mountable for a wide variety of applications with minimal integration
- Easily retrofits Whelen legacy strobe products



Wingtip PTA, Green, 14 Volt 01-0790725-01**\$576.42**
Wingtip PTA, Red, 14 Volt 01-0790725-02**\$576.42**
Wingtip PTA, Green, 28 Volt 01-0790725-11**\$576.42**
Wingtip PTA, Red, 28 Volt 01-0790725-12**\$576.42**

Orion650E Series Lightheads

- Mounts within fairing
- Incorporates the latest state-of-the-art LED technology in an all-inclusive package
- Eliminates the need for external flasher boxes
- Flush mountable for a wide variety of applications with minimal integration
- Easily retrofits Whelen legacy strobe products



Embedded PTA, Green, 12 Volt 01-0790701-01**\$604.50**
Embedded PTA, Red, 12 Volt 01-0790701-02**\$604.50**
Embedded PTA, Green, 28 Volt 01-0790701-11**\$604.50**
Embedded PTA, Red, 28 Volt 01-0790701-12**\$604.50**

Replacement Bulbs • Lenses

Chroma™ Series by Whelen

- LED Plug & Play Position Lights by Whelen
- 10,000 hour operating life
- Direct replacements for W129028, 120928, A7512-24, W628, 628 incandescent bulbs



Green LED, 14 Volt 01-0771900-G14**\$149.50**
Red LED, 14 Volt 01-0771900-R14**\$149.50**
Green LED, 28 Volt 01-0771900-G28**\$149.50**
Red LED, 28 Volt 01-0771900-R28**\$149.50**

PAR36 LED Landing and Taxi Lights

- Drop-in replacements for outdated halogen and HID lamps
- Replaces 4509 and Q4509



Parmetheus™ Series

PAR36 LED Taxi Light, 14 Volt 01-0771424-15**\$260.00**

Parmetheus Plus™ Series (40% brighter)

PAR36 LED Landing Light, 14 Volt 01-0771833-10**\$301.86**
PAR36 LED Taxi Light, 14 Volt 01-0771833-15**\$301.86**

Sealed Beam Bulb Unit

- For all popular aircraft landing lights
- 13 volts

Sealed Beam Bulb 4509**\$21.84**
Halogen Unit Q4509**\$27.12**



Warning Lights

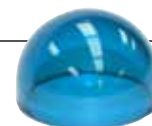
- Glass jewel type
- 12 volt bulb

Red AH-133R**\$22.25**
Green AH-133G**\$22.25**
Amber AH-133A**\$22.25**



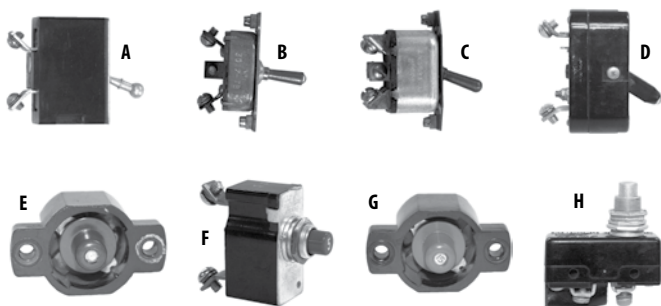
Grimes Lenses

- Dome shaped lenses for Grimes Models A, B, C, E, and S lights



Model A and B Lens, Red A1233A2**\$91.14**
Model A and B Lens, Green A1233A3**\$75.19**
Model A and C Lens, Clear A1233A1**\$69.78**
Model E Lens (A1280-2), Red W1284-R**\$88.14**
Model E Lens (A1280-3), Green W1284-G**\$88.14**
Model S Lens, Clear A4513-1**\$39.00**

Circuit Breakers • Switches



A) Circuit Breaker, 5 Amp	AN3160-5	\$55.00
B) Spring Loaded "On-Off" Switch	AN3022-7B	\$17.02
C) Double Pole, "On-Momentary On"	AN3023-10	\$130.00
D) C6363 Circuit Breaker, Klixon, 5 Amp	C6363-5	\$154.80
15 Amp	C6363-15	\$155.04
E) Klixon PM Circuit Breaker, 5 Amp	PM-5	\$39.65
10 Amp	PM-10	\$39.65
20 Amp	PM-20	\$39.65
35 Amp	PM-35	\$39.65
40 Amp	PM-40	\$39.65
F) Klixon PSM Circuit Breaker, 5 Amp	PSM-5	\$64.19
10 Amp	W23X1A1G-10	\$48.40
15 Amp	PSM-15	\$48.89
20 Amp	W23X1A1G-20	\$35.57
25 Amp	PSM-25	\$48.89
G) Klixon CM Circuit Breaker, 15 Amp	CM-15	\$36.96
H) Microswitch*, 10 Amp Rating at 125 Volts	RD7-1P2T	\$38.59

* May be installed in either "normally open" or "normally closed" position. Requires $\frac{1}{16}$ " travel to actuate, with $\frac{7}{32}$ " additional override. Perfect for mechanisms, door lights, trunk or hood lights. Makes excellent push-button for starter solenoids.

Bendix Ignition Switch

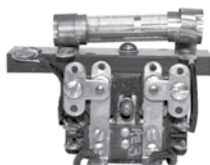
- For all light planes



Switch With No "Start" Position	10-357290-1	\$576.31
Switch With "Start" Position	10-357200-1	\$668.77
Plate for Part Number 10-357200-1		
("Off, R, L, Both, Start")	10-126676	\$5.10
Switch Shield	0311777	\$312.09

Relay Type Flasher Unit

Relay operates two sets of contact points which may be wired in normally open or normally closed position. Flasher may be used for navigation or warning lights.



Relay Type Flasher Unit RELAY **\$43.52**

Solenoids

Single Pole Solenoid

- Single pole
- Normally open
- Used on all 108 Stinsons as master solenoid



Single Pole Solenoid
(70-918) 70-111226-5 **\$35.80**

Double Pole Solenoid

- Double pole
- Normally open
- Used on Swifts



Double Pole Solenoid 70-902 **\$31.77**

Piper Starter Solenoid

**FAA-PMA
APPROVED**

- With $\frac{5}{16}$ " terminals

This FAA-PMA approved solenoid is a 6 volt unit. It is a direct replacement for the original Piper solenoid. The 6 volt unit has larger contacts than a 12 volt unit thus providing a longer service life. The existing wiring is adequate for a 12 volt electrical system using this solenoid.



Starter Solenoid U487-149 **\$118.34**

Miscellaneous Electrical Supplies

14V Voltage Regulators

- Electrodelta™ Voltage Regulators by Lamar Technologies LLC
- Installer must verify aircraft model applicability



Overvoltage Sensor, 14 Volt	0575-14	\$309.09
Voltage Regulator, 14 Volt	VR200A	\$302.00
Voltage Regulator, 14 Volt	VR600	\$260.84
Voltage Regulator, 14 Volt	VSF-7203A	\$451.53

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- Insulators
- Electrical Wire
- Fuses
- Fuse Holders and Clips