


**Sportsman & GlaStar
Options & Accessories**

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Factory New Certified & Experimental Aircraft Engines

LYCOMING FACTORY NEW EXPERIMENTAL ENGINES		
	<p>All fuel injected engine models are available with either Precision Silver Hawk or Airflow Performance fuel injection components.</p>	
	<p>Lycoming X0-360 (180 HP)</p> <p>Two different models of the 0-360 are offered for the Sportsman and GlaStar, depending on propeller choice and available budget. Both engines require 100LL aviation fuel.</p> <p>The A1F6 is a counterweighted engine designed for use with a Hartzell constant-speed prop. The crankshaft counterweights allow use of the Hartzell throughout the engine's operating range without any RPM restriction. The A1A does have a restriction against continuous operation between approximately 1900 and 2200 RPM (plus or minus 50 RPM) with a Hartzell constant-speed prop. This range of restriction is inferred from similar certified engine/prop combinations; the exact range of restriction for the A1A will have to be determined from a vibrational survey of a Sportsman or GlaStar with this powerplant.</p> <p>Both the A1F6 and the A1A can also be used with a Sensenich fixed-pitch prop, but both engines have a restriction against continuous operation between 2150 and 2350 RPM using that prop. For builders with no plans ever to run a constant-speed prop, we offer the A4M, a solid-crank engine with no RPM restrictions for the Sensenich fixed-pitch propeller.</p>	
	Y0-360-A1A	Part No: 501-04000-01X
	Y0-360-A1F6	Part No: 501-04000-02X
	Y0-360-A4M	Part No: 501-04000-03X
	YIO-360-M1A	Part No: 221-0360-105X
	<p>Lycoming YIO-390-X (210 HP)</p> <p>The YIO-390-X engine requires 100LL aviation fuel. This engine can be used with either a fixed pitch or constant speed propeller.</p>	Part No: 501-04000-09
LYCOMING FACTORY NEW CERTIFIED ENGINES		



Lycoming 0-360 (180 HP)

Two different models of the 0-360 are offered for the Sportsman and GlaStar, depending on propeller choice and available budget. Both engines require 100LL aviation fuel.

The A1F6 is a counterweighted engine designed for use with a Hartzell constant-speed prop. The crankshaft counterweights allow use of the Hartzell throughout the engine's operating range without any RPM restriction. The A1A does have a restriction against continuous operation between approximately 1900 and 2200 RPM (plus or minus 50 RPM) with a Hartzell constant-speed prop. This range of restriction is inferred from similar certified engine/prop combinations; the exact range of restriction for the A1A will have to be determined from a vibrational survey of a Sportsman or GlaStar with this powerplant.

Both the A1F6 and the A1A can also be used with a Sensenich fixed-pitch prop, but both engines have a restriction against continuous operation between 2150 and 2350 RPM using that prop. For builders with no plans ever to run a constant-speed prop, we offer the A4M, a solid-crank engine with no RPM restrictions for the Sensenich fixed-pitch propeller.

0-360-A1A	Part No: 501-04000-01
0-360-A1F6	Part No: 501-04000-02
0-360-A4M	Part No: 501-04000-03
IO-360-M1A	Part No: 221-0360-105

Lycoming 0-320-D1F (160 HP)

The 0-320-D1F engine uses high-compression pistons and requires 100LL aviation fuel. The -D1F engine can be used with either a fixed pitch or Hartzell constant speed prop with no RPM range restrictions as noted above.

0-320-D1F with magneto ignition	Part No: 221-0320-102
0-320-D1F with Lasar ignition	Part No: 221-0320-104

Lycoming 0-320-E1F (150 HP)

The 0-320-E1F engine uses low-compression pistons and can use auto fuel or 80/87 aviation fuel. Like the D1F, the E1F is available with either a conventional magneto ignition system or the new Unison Lasar electronic ignition. See description above.

0-320-E1F with magneto ignition	Part No: 221-0320-103
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Terms re Engine Purchases:

Prices are valid for orders received prior to October 1, 2013 covering engines scheduled for shipment from Lycoming's factory during the 2013 calendar year. Engines are shipped to U.S. customers directly from the manufacturer - Textron Lycoming. International customers have the option of requesting shipment via Glasair Aviation USA, LLC so that engine orders can be shipped along with kit shipments. Lead times are typically 12 to 16 weeks. Please plan your order accordingly.

A 25% non-refundable deposit is required at the time of order for all engine purchases, with the balance due in full one month prior to projected delivery date.

Our Lycoming engine configurations include: magnetos (or optional Lasar ignition); spark plugs and ignition harness; a skytech lightweight starter; and a carburetor. All engines are configured for installation on the Sportsman and GlaStar airframe with little or no modification. Note: Special, long-term storage packaging is available for an additional \$200.00. (Lycoming warrants long term packaging for 6 months.)



Warranty:

Textron Lycoming's warranty is very detailed, but in brief it warrants each new engine to be free from defects in material and workmanship appearing within 2 years from the date of first operation, excluding necessary acceptance testing. The date of first operation must not be later than 2 years from the date of shipment from Lycoming. In addition, if the engine proves to be defective in material before the expiration of Lycoming's recommended time between overhaul (TBO) or within 2 years of the date of the first operation, whichever comes first, Lycoming will reimburse the purchaser for a *pro rata* portion of the engine's cost.

The warranty covers major parts of the engine, which is limited to the crankcase, crankshaft, camshaft, cylinders, connecting rods, pistons, sump, accessory housing and gears. The proration policy does not extend to labor or to accessories.

Firewall Forward Options

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	<p>Engine Mounts (Engine Mounts are included with the standard kit)</p> <p>Lycoming Type I Dynafocal Mount Installation</p> <p>This installation is designed to fit the 30 degree Dynafocal mounting lugs typically used on O-320-D and -E engines, as well as O-360, IO-360 & IO-390 engines. Note: includes instructions and all hardware required to bolt the mount to the firewall.</p>	Part No: 922-01100-01
	<p>Lycoming Type II Dynafocal Mount Installation</p> <p>Some fairly uncommon models of fuel-injected IO-320s and IO-360s require an 18 degree Dynafocal mount. We can provide such mounts on request, but due to the small demand for this mount, it is not kept in stock. Please call for anticipated lead time. Note: includes instructions and all hardware required to bolt the mount to the firewall.</p>	Part No: 922-01200-01
	<p>Lycoming Conical Mount Installation</p> <p>This installation is designed to fit the earlier-style conical or "flat" mounting lugs typically used on O-320-A, -B and -C engines. Note: includes instructions and all hardware required to bolt the mount to the firewall.</p>	Part No: 922-01000-01
	<p>Shock Bushing For Lycoming Engines</p> <p>Rubber "shock bushings" - formally called vibration isolators - are required for all Lycoming installations. Kits include all engine installation hardware.</p> <p>Dynafocal Shock Bushing Installation Kit</p> <p>This installation is for Dynafocal-mount O-320-D and -E engines, and all O-360, IO-360 and IO-390 engines. Note: Includes a set of four shock bushing assemblies and all hardware necessary to bolt the engine to the engine mount.</p>	Part No: 222-4011-501
	<p>Engine Baffling Kit</p> <p>The standard Lycoming baffling for the O-360, O-320, IO-360 and IO-390 (see above) is designed to accommodate short, aftermarket alternators (like the B&C) popular with homebuilders. If you are running the longer, standard Lycoming alternator, you'll need to extend your right forward baffle aft to accommodate it. This pre-molded fiberglass recess makes this job a snap. Instructions and hardware for installing the recess are included in the baffling kit.</p> <p>* When comparing our engine baffling kits to less expensive baffling kits sold by competitors, keep in mind that our baffling is much more complete and comes with a clean anodized finish and all parts needed for your installation. We are confident that our higher quality baffling kits will reduce the assembly and installation time of "cheaper" baffling kits by a factor of 50% or more. In fact, we contacted a service center that assembles all types of aircraft (Sportsman, GlaStar, RV, Lancair, etc.) and requested that they compare our baffling price, quality, and ease of installation to the less expensive brands. They concluded that our baffling kit was a much better value due to its superior quality, ease of installation and they emphasized the fact that 2 to 3 days of fabrication/installation time will be saved by using our baffling. Thus, the adage must be true... in most cases, "you get what you pay for."</p>	
	Lycoming O-360 180HP Baffling	Part No: 922-05000-01
	Lycoming IO-360 180HP Baffling	Part No: 922-05000-02
	Lycoming IO-390 Baffling	Part No: 922-05500-01
	Lycoming O-320 Baffling	Part No: 922-04000-01
	Lycoming standard alternator recess (for use with large alternator only)	Part No: 505-03001-01



Lycoming Oil Cooler Installation - O-360 / IO-360 180 HP: An oil cooler is essential to any Lycoming engine installation. This installation kit - which is appropriate for O-360, O-320 & IO-360 - ducts air from the engine baffling to the oil cooler, which is mounted on the firewall. The kit included a new Stuart-Warner oil cooler matched to the engine size, a molded fiberglass shroud that directs the cooling air over the cooler, a flexible 3" SCAT duct with spun aluminum flange, pre-assembled oil hoses, and all the hardware necessary for a complete Sportsman or GlaStar installation. Detailed instructions are also included. Allow 4-6 weeks for delivery, as stock is limited.

Part No: 922-06000-01

Lycoming Oil Cooler Installation - IO-360 / IO-390 200-210 HP: An oil cooler is essential to any Lycoming engine installation. This installation kit - which is appropriate for IO-360 & IO390- ducts air from the engine baffling to the oil cooler, which is mounted on the firewall. The kit included a new Stuart-Warner oil cooler matched to the engine size, a molded fiberglass shroud that directs the cooling air over the cooler, a flexible 3" SCAT duct with spun aluminum flange, pre-assembled oil hoses, and all the hardware necessary for a complete Sportsman or GlaStar installation. Detailed instructions are also included. Allow 4-6 weeks for delivery, as stock is limited.

Part No: 922-06050-01

Lycoming Carbureted Induction Systems

Let your Lycoming breathe through a stylish, low-drag complete induction system kits! The kits feature a pre-molded induction housing designed to accommodate a Brackett air filter, which is included. The kits also include a pre-assembled carburetor heat valve; pre-molded fiberglass carb air box; all necessary SCAT hose and clamps; all necessary sheet-metal, gaskets and hardware; and detailed installation instructions. Note: We recommend that you use fire-retardant resin for this firewall forward installation. We sell this fire-retardant resin pre-promoted. Please note that this resin has a shelf life of only one month; so please keep this in mind when you order your resin.

O-360 Induction System

Part No: 922-07050-01

O-320 Induction System

Part No: 930-02320-01



Sportsman IO-360 & IO-390 Injected Induction Installation (Airflow Performance FM200 Injection)

This induction installation is designed for the IO-360 & IO-390 engine series with forward facing Airflow Performance FM200 inductions. The installation is very simple and light weight and is entirely enclosed within the cowl. It utilizes a filter box that ties into the injector servo and protrudes through the baffling directly below the alternator and starter. It picks up the pressurized air contained within the forward baffling plenum chamber and is protected from icing. Used on the IO-360-X184 180 H.P engine and IO390-X 210 H.P. with the forward facing Airflow Performance injector servo.

Part No: 922-07150-01



Sportsman IO-360 & IO-390 Injected Induction Installation (RSA Silverhawk Injection)

This induction installation is designed for the IO-360 & IO-390 engine series with forward facing RSA Silverhawk fuel controllers. The installation is very simple and light weight and is entirely enclosed within the cowl eliminating the need for an alternate air valve. It utilizes a machined, anodized filter adapter secured to the injector servo and protrudes through the baffling directly below the alternator and starter. It picks up the pressurized air contained within the forward baffling plenum chamber and is protected from icing. Used on the IO-360-X184 180 H.P engine and IO390-X 210 H.P. with the forward facing RSA Silverhawk fuel controllers.

Part No: 922-07100-02

	<p>Exhaust Systems</p> <p>Sportsman and Glastar Muffled Exhaust Systems</p> <p>All exhaust stacks empty into a central, muffler chamber with a single exhaust pipe exiting the cowling on the right, lower side. This exhaust is designed for quieter operation and has a large (6" diameter) stainless steel cabin heat muff surrounding the 5" diameter muffler providing a generous supply of hot air for both cabin and carburetor heat. These muffled exhaust systems are compatible for both configurations making conversion between taildragger and tricycle gear possible.</p> <p>Muffler-style exhaust systems are not available for the 210 h.p. IO-390 angle valve engine.</p>							
	<p>A muffled exhaust system with both cabin and carburetor heat mufflers. This system is useable on both the Tricycle and Taildragger GlaStar/Sportsman aircraft using the 160 & 180 h.p. carbureted engines (O-320, O-360-A1A and O-360A1F6). This exhaust is compatible between 320 and 360 engines even though the 360 engines are 1/2" wider at the exhaust ports since the inlet pipes line up (side by side) and are long enough to accommodate either engine.</p>	<p>Part No: 925-03000-01</p>						
	<p>A muffled exhaust system with cabin heat mufflers. This system is useable on both the Tricycle and Taildragger GlaStar/Sportsman aircraft using the fuel injected 180 h.p. IO-M1A and M1B style parallel valve engines.</p>	<p>Part No: 925-04000-01</p>						
	<p>Sportsman Hi-Performance Exhaust Systems*</p> <p>Tested against muffled and crossover exhaust systems by the C.A.F.E. Foundation, (see report at www.cafefoundation.org), the 4:1 (four-into-one) exhaust system (otherwise known as a "tuned exhaust") with optimized pipe and collector lengths provide for good scavenging through negative pressure waves timed to provide more power, better efficiency and a cleaner combustion chamber. All exhaust pipes are near equal length and enter a 4:1 collector inside the cowl with a single tailpipe exiting the cowl.</p> <p>Note: The tricycle version of the 4:1 exhausts will work for both tricycle and taildragger gear configurations. The tricycle collector takes a path around the right side of the nose gear and exits the cowl on the right side of the exit air tunnel requiring a cowl tailpipe panel to be fabricated by the builder from a cut-out on the cowl. Photos and instructions for creating a tailpipe panel from the existing cowl are under development. The tricycle exhaust is required for those desiring to convert the Sportsman between tricycle and conventional gear.</p> <p>The taildragger (conventional gear) version of the 4:1 exhaust takes a straight path through the exit air tunnel, not requiring a tailpipe panel, and should only be purchased by those who do not intend to convert their Sportsman to tricycle gear.</p> <p>*These high performance exhausts were designed for the engines listed. They will not fit O-320 or IO-320 engines as they are 1/2" narrower at the exhaust ports. GlaStar owners with the O-360-A1a, A1F1, IO-360-M1A or M1B style engines may use these exhausts with cowling modifications to the cowl exit air ramp for collector/tailpipe clearance.</p> <table border="1" data-bbox="475 1436 1507 1797"> <tr> <td data-bbox="475 1436 1089 1566"> <p>A four into one (4:1) hi-performance exhaust (to be developed, call for availability) for the taildragger Sportsman aircraft using the 180 h.p. IO-360 M1A & M1B style, parallel valve engines. Cabin heat muff included.</p> </td> <td data-bbox="1089 1436 1507 1566"> <p>Part No: 925-04100-01</p> </td> </tr> <tr> <td data-bbox="475 1566 1089 1671"> <p>A four into one (4:1) hi-performance exhaust for the taildragger Sportsman aircraft using the carbureted O-360-A1A or A1F6 engines. Cabin and Carburetor heat mufflers included.</p> </td> <td data-bbox="1089 1566 1507 1671"> <p>Part No: 925-04150-01</p> </td> </tr> <tr> <td data-bbox="475 1671 1089 1797"> <p>A four into one (4:1) hi-performance exhaust for the tricycle Sportsman aircraft using the fuel injected 200 h.p. IO-360 and 210 h.p. IO-390 angle valve style engines. Cabin heat muff included. <u>This exhaust will not fit parallel valve IO-360 engines.</u></p> </td> <td data-bbox="1089 1671 1507 1797"> <p>Part No: 925-05100-01</p> </td> </tr> </table>		<p>A four into one (4:1) hi-performance exhaust (to be developed, call for availability) for the taildragger Sportsman aircraft using the 180 h.p. IO-360 M1A & M1B style, parallel valve engines. Cabin heat muff included.</p>	<p>Part No: 925-04100-01</p>	<p>A four into one (4:1) hi-performance exhaust for the taildragger Sportsman aircraft using the carbureted O-360-A1A or A1F6 engines. Cabin and Carburetor heat mufflers included.</p>	<p>Part No: 925-04150-01</p>	<p>A four into one (4:1) hi-performance exhaust for the tricycle Sportsman aircraft using the fuel injected 200 h.p. IO-360 and 210 h.p. IO-390 angle valve style engines. Cabin heat muff included. <u>This exhaust will not fit parallel valve IO-360 engines.</u></p>	<p>Part No: 925-05100-01</p>
<p>A four into one (4:1) hi-performance exhaust (to be developed, call for availability) for the taildragger Sportsman aircraft using the 180 h.p. IO-360 M1A & M1B style, parallel valve engines. Cabin heat muff included.</p>	<p>Part No: 925-04100-01</p>							
<p>A four into one (4:1) hi-performance exhaust for the taildragger Sportsman aircraft using the carbureted O-360-A1A or A1F6 engines. Cabin and Carburetor heat mufflers included.</p>	<p>Part No: 925-04150-01</p>							
<p>A four into one (4:1) hi-performance exhaust for the tricycle Sportsman aircraft using the fuel injected 200 h.p. IO-360 and 210 h.p. IO-390 angle valve style engines. Cabin heat muff included. <u>This exhaust will not fit parallel valve IO-360 engines.</u></p>	<p>Part No: 925-05100-01</p>							



Exhaust Gaskets (Spiral Wound) - Included w/Exhaust Systems

These gaskets have a unique design incorporating a V-shaped spiral wound insert made of layers of stainless steel and asbestos. This allows expansion and contraction through a wide range of heat and vibration. One gasket

per cylinder is used. They offer maximum longevity and may even be reused; for example, after temporary removal and replacement of an exhaust stack. Fits all Lycoming Engines.

Part No: 250-1000-001



Fuel Pump Cooling Shroud

Part No: 331-0165-101

Fuel Pump Cooling Shroud Installation

Part No: 331-0165-501



Aeroduct Hose

Aeroduct "SCAT" type flexible tubing is constructed of a single ply of red silicone rubber impregnated fiberglass with a copper coated steel wire inside and wrapped with fiberglass cord on the outside. It will withstand temperatures from -80

SCAT Tube Size 1"	Part No: 830-0004-001
SCAT Tube Size 1-1/2"	Part No: 830-0006-001
SCAT Tube Size 2"	Part No: 830-0008-001
SCAT Tube Size 3"	Part No: 830-0012-001
SCAT Tube Size 4"	Part No: 830-0016-001
SCAT Tube Size 4-1/2"	Part No: 830-0018-001



Cabin Heat System

This system utilizes a rotary valve installed on the cockpit side of the Sportsman/GlaStar firewall. It is designed with two cabin heat outlet tubes (one for the pilot and one for the co-pilot) and a single outlet tube for the windshield defrost. In the off position, two openings forward of the firewall allow heated air traveling from one exhaust heat muff to be vented into the engine compartment, avoiding hot spots inside the heat muff. Very accurate, smooth metering between cabin heat and defrost is possible because of the unique rotary action of the valve.

The cabin heat valve assembly may be purchased separately or as part of a complete installation kit including all hardware, spun aluminum flange, 11 feet of SCAT tubing and detailed instructions.

Cabin Heat System Installation	Part No: 938-03000-01
Cabin Heat Valve Assembly Only	Part No: 471-0810-201







Eng. Control Bracket Installation, IO-360 & IO-390, Fwd Facing

The Sportsman Engine control bracket is specifically designed to fit the IO-360 & IO-390 engine installation with the sump configured with a forward facing throttle body. This simple installation contains the bracket and all hardware to secure the throttle and mixture controls to the engine. The control cables themselves are not included. These cables can be purchased through Aircraft Spruce or other aircraft supply stores. The throttle and mixture control cables should be 48" long and the prop control cable should be 60" inches long.

Part No: 922-08500-01

Engine Control Bracket Installation O-360

Part No: 922-08000-01

	<p>Dual Sportsman Landing Light Kit</p> <p>Light the way for those night takeoffs and landings and improve your visibility in the pattern anytime with our powerful, two cowling-mounted landing light. This kit includes two halogen landing lights, mounting kit, wire, wire terminals, anti-chafe, spiral wrap, clamps, quick disconnect terminals, and all hardware necessary for installation and detailed installation instructions. This kit does not include a panel switch or circuit breakers. (Note: 2 clear plexiglas lens comes with cowling kit.)</p>	<p>Part No: 921-04100-03</p>										
	<p>GlaStar Landing Light Kit</p> <p>Light the way for those night takeoffs and landings and improve your visibility in the pattern anytime with our powerful, cowling-mounted landing light installation. This kit includes a 4" diameter, 100,000 candlepower aircraft landing light, a spun aluminum retainer ring, a formed anodized aluminum shroud, wire, wire terminals, anti-chafe, spiral wrap, clamps, quick disconnect terminals, all hardware necessary for installation and detailed installation instructions. This kit does not include a panel switch or circuit breaker. (Note: clear plexiglass lens comes with cowling kit.)</p>	<p>Part No: 921-04000-01</p>										
	<p>CP-25 Fire Barrier Caulking</p> <p>Manufactured by the 3M Corporation, CP-25 replaces the previously recommended RTV-88 silicone sealant for use as a fire barrier caulking. Since CP-25 expands to fill voids caused by the shrinkage of other materials, it is preferred for use with materials that shrink when exposed to heat. Due to shelf life, order this product at the time of need. 10-1/2 fl. oz. tube.</p>	<p>Part No: 270-0132-001</p>										
	<p>Fire Sleeve</p> <p>Used to fire protect fuel lines in the engine compartment to FAR standard for certificated aircraft. Price is per foot.</p>	<p>Part No: 830-0102-012</p>										
	<p>High-Temp. RTV Silicone Sealer</p> <p>Capable of withstanding temperatures of up to 650 degrees F, this pliable sealer has many uses both forward and aft of the firewall. Price is for a 3 oz. tube.</p>	<p>Part No: 270-0026-002</p>										
	<p>Air Duct Flanges</p> <p>Aluminum Flanges: Lightweight; for attachment of duct hose to baffling, etc. Easy to install, may be welded or riveted. Attractively anodized for maximum corrosion protection.</p> <table border="1" data-bbox="483 1396 1498 1497"> <tr> <td>1" Diameter x 1-1/4"</td> <td>Part No: 610-0142-005</td> </tr> <tr> <td>1-1/2" Diameter x 1-1/4"</td> <td>Part No: 610-0142-001</td> </tr> <tr> <td>3" Diameter</td> <td>Part No: 610-0469-001</td> </tr> </table> <p>Stainless Steel Flanges: Give extra durability and strength when required.</p> <table border="1" data-bbox="483 1497 1498 1640"> <tr> <td>1-1/2" Diameter x 1-1/4"</td> <td>Part No: 610-0142-003</td> </tr> <tr> <td>1-1/2" Diameter x 2"</td> <td>Part No: 610-0142-004</td> </tr> </table>		1" Diameter x 1-1/4"	Part No: 610-0142-005	1-1/2" Diameter x 1-1/4"	Part No: 610-0142-001	3" Diameter	Part No: 610-0469-001	1-1/2" Diameter x 1-1/4"	Part No: 610-0142-003	1-1/2" Diameter x 2"	Part No: 610-0142-004
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3" Diameter	Part No: 610-0469-001											
1-1/2" Diameter x 1-1/4"	Part No: 610-0142-003											
1-1/2" Diameter x 2"	Part No: 610-0142-004											
	<p>12/14 V Alternator Kit 60 AMP, Lightweight</p> <p>12 volt, 60 amp, internally regulated alternator kit includes regulator, overvoltage protection, brackets, pulley, mounting hardware and belt*</p> <p>*NOTES: Belt included is for engines with 9.75" pulley. For engines with 7.5" crank pulley, order 30-5/8" long Gates XL 7300 3/8" V-Belt (pn 11A0760) from your favorite automotive parts dealer.</p> <p>Weight: 6 Pounds, 15 Ounces.</p> <p>Part No: 210-0020-010</p>											



Magneto Cooling Kit

Help Extend the life of your engine magnetos! This kit includes two hat flanges, 20" of 3/4" aeroduct hose and installation hardware to install cooling ducting to both magnetos. This is an easy retrofit to existing engine baffling; requiring a step drill capable of 3/4" diameter holes, 1/8" drill bit and a "pop" rivet puller. Estimated installation time is less than one hour.

Part -08No: 042-07000

Props, Spinners, Governors, & Cowling Information

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Hartzell Constant-Speed Propellers

Standard delivery time for Hartzell propellers is about 12-16 weeks from the date of order. A 25% deposit is required to be paid to Glasair Aviation, LLC at the time of order with the balance to be paid in full 30 days before shipment . Propellers are drop-shipped freight collect directly from Hartzell.

Hartzell's factory warranty covers defects in material and/or workmanship for the first 1000 hours or for a period of one year from when first installed, whichever occurs first. Hartzell constant speed propellers also have a maximum shelf life of 2 years, after which Hartzell, in Service Letter 61-P, highly recommends that the seals be replaced.



74" Propeller for 180/200 hp

Non-Extended Hub Constant Speed Propellers

This 74" - diameter, Non-extended hub prop produces optimal climb and cruise performance. Operated on the O-360-A1F6, the prop has no RPM restrictions; on the O-360-A1A, the prop is restricted from continuous operation between approximately 1900 and 2200 RPM, pending completion of a vibration survey. Note: This propeller can only be used on O-360's with hollow crankshafts. Hartzell No:HCC2YK-1BF/F7666A-2/SM8 Installation Weight: 55.4 lbs.

Part No: 681-0476-004

Hartzell Propeller Model HC-C2YR-1BFP/F7497/SM19

2-BLADE PROPELLER; Available in 74"

HARTZELL "BLENDED AIRFOIL" DESIGN PROPELLER FOR USE WITH LYCOMING IO-390-X 210HP ENGINE

Specifications:
Compact Series Propeller
Aluminum Hub/Aluminum Blade Construction
Constant-Speed
Non-Feathering

Part No: 681-0476-010



80" Constant Speed Compact Hub Prop for use with Lycoming O360-A1F6 or IO-390-X

Operated on the O-360-A1F6, the prop has no RPM restrictions. On the IO-390-X continuous operation is prohibited above 24" manifold pressure below 2250 RPM and below 8" manifold pressure between 1950 and 2300 RPM. the propeller diameter limits are 78" to 80".

Part No: 502-04000-03

C2R00081 HC-C2YR-1BF/F8477-4 (WITH NO DAMPER)



Propeller for Lycoming O-360 - For use with Extended hub GlaStar cowling only

This 74" - diameter, extended-hub prop produces optimal climb and cruise performance. Operated on the O-360-A1F6, the prop has no RPM restrictions; on the O-360-A1A, the prop is restricted from continuous operation between approximately 1900 and 2200 RPM, pending completion of a vibration survey. Note: This propeller can only be used on O-360's with hollow crankshafts.

Part No: 502-08000-01

Hartzell Part No: HCF2YR-1F/F7666A-2/SM4



Propeller for Lycoming O-320 - For use with Extended hub GlaStar cowling only

This extended hub propeller is 73" long, providing about 8 1/2" of ground clearance. Installed weight is 54.18 lbs. Note: This propeller can only be used on O-320's with hollow crankshafts.

Hartzell Part No: HCF2YL-1F/F7663-3/SM4

Part No: 968-10476-01

MT-Propellers for Sportsman and GlaStar (All propellers are variable pitch, constant speed)

Recommended governors for all hydraulic propellers: McCauley, Hartzell, Jihostroy and Woodward. Compatibility with our propellers must be confirmed. Generally we recommend the use of hydraulic propeller system because of it's higher pitch change rate (~6 times). If a hydraulic system is not possible the electric constant speed propeller is recommended. Take off, climb and cruise performance of both systems is equal, if the same blade types are used. If the Lycoming IO-360 is selected as the preferred engine, we'd recommend the version which has 6th-order dampers installed (i.e. -A1B6) for lower vibration loads. Our propeller blades are manufactured in natural-composite, protected by two layers of fiberglass and a stainless-steel erosion sheet, hubs made from aluminium alloy, Kevlar spinner dome. Extended hubs - if required - are available on request, at no additional charge. Standard blade colour is white with red tips, customer defined colours upon request. See our Service Bulletin No. 1-() for the current TBO's. Delivery time is presently 8-10 weeks after receipt of order.

72" dia 34 lbs incl. Spinner P-294 (without governor) 2-blade hydraulic 502-06300-01

Part No: 502-06300-01

71" dia 42 lbs incl. Spinner P-237-1 (without governor) 3-blade hydraulic

Part No: 502-06500-01

80" dia 46 lbs incl. Spinner P-237-3 (without governor) 2-blade hydraulic

Part No: 502-05100-05

72" dia 45 lbs incl. Spinner P-328 (without governor) 3-blade hydraulic

Part No: 502-05800-01

Sensenich Fixed Pitch Propellers

As we gather more experience with our factory aircraft and customer aircraft, we may broaden the line of propellers we offer for sale. Meanwhile, one of the advantages of metal propellers is that their pitch may be adjusted by up to several inches in either direction at a fairly modest cost. Therefore, if your initial propeller choice does not provide the performance you desire, there may be a relatively simple remedial solution.

Sensenich propellers are all-metal, and come with mounting bolts and an extension to match the appropriate Sportsman or GlaStar cowling. Installation weight for the O-320 propeller is 42.83 lbs.

Standard delivery time for all Sensenich propellers is about 8 weeks. 25% non-refundable deposit required at time order is placed. All propellers are drop-shipped freight collect directly from Sensenich.



Cruise Propeller for Lycoming O-360:

76" diameter, 65" pitch. Designed for optimum cruise speed. Operated on the O-360 A4M, the prop has no RPM restrictions; on the O-360-A1A or A1F6, the prop is restricted from continuous operation between 2150 and 2350 RPM.

Part No: 502-06000-01

Cruise Propeller for Lycoming O-320 with 7/16" Prop Bolts:

74" diameter, 65" pitch. Designed for optimum cruise speed. Sensenich Part No: 74DM7S16-0-65

Part No: 681-7465-101

Cruise Propeller for Lycoming O-320 with 3/8" Prop Bolts: 74" diameter, 65" pitch. Designed for optimum cruise speed. Sensenich Part No: 74DM6S16-0-65

Part No: 681-7465-102



Climb Propeller for Lycoming O-320 with 7/16" Prop Bolts:

74" diameter, 62" pitch. Designed for optimum climb performance. Sensenich Part No: 74DM7S16-0-62

Part No: 681-7462-101

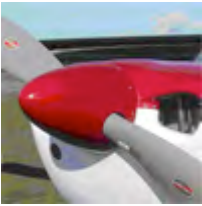
Climb Propeller for Lycoming O-320 with 3/8" Prop Bolts: 74" diameter, 62" pitch. Designed for optimum climb performance. Sensenich Part No: 74DM6S16-0-62

Part No: 681-7462-102

	<p>Jihostroj Governor</p> <p>Glasair Aviation also carries the Jihostroj governor. Compact design and light 2 lbs weight.</p>	<p>Part No: 681-0210-050-160-180-210 hp</p>
	<p>Lycoming Cowling for Sportsman/Glastar</p> <p>This Lycoming cowling - which accommodates O-320, O-360, IO-360 and IO-390's without modification and is included in the standard Glastar and Sportsman kits - consists of molded upper and lower cowling halves where the lower cowl comes with the cowl flap and the landing light lens recesses premolded into the shape. The installation kit includes all hardware to secure the cowling to the fuselage; a molded oil access door; MS hinge stock for fastening the oil access door, all required rivets and hardware and detailed installation instructions</p> <p>Note: This cowl can be installed with either the compact or extended hub propellers. For compact hub propeller installations, approximately two inches will need to be trimmed off the aft edge of the cowling.</p>	<p>Part No: 930-03000-01</p>

Spinner Installations

All spinner installation kits come with a sleek, molded fiberglass spinner matched to the contours of the respective Sportsman or GlaStar cowling, anodized aluminum front and back plates, all necessary installation hardware, and detailed instructions (which include templates to make the proper propeller blade cuts). Note: Lycoming O-360s, O-320s, IO-390's and IO-360's with similar bolt size take identical spinners.

	<p>Lycoming with Hartzell Constant-Speed Propeller Extended Hub</p>	<p>Part No: 301-0260-501</p>
	<p>Lycoming with Sensenich Fixed-Pitch Propeller and 7/16" Prop Bolts</p>	<p>Part No: 301-0260-507</p>
	<p>Spinner Kit for CS compact hub propellers on GS/SP</p> <p>Note: This option kit provides all the parts, materials and hardware necessary for the spinner installation used on Sportsman and GlaStar aircraft equipped with the constant-speed compact hub propellers. This spinner kit will not work on the extended hub propellers.</p>	<p>Part No: 301-0260-508</p>
	<p>Lycoming with Sensenich Fixed-Pitch Propeller and 3/8" Prop Bolts</p>	<p>Part No: 301-0260-506</p>

Terms re Hartzell Propeller Purchases:

Standard delivery time for Hartzell propellers is about 12-16 weeks from the date of order. A 25% deposit is required to be paid to Glasair Aviation, LLC at the time of order with the balance to be paid in full 30 days before shipment. Propellers are drop-shipped freight collect directly from Hartzell.




Propellers must be shipped in calendar year 2012 to qualify for this pricing. November 15, 2013 is the approximate order cutoff date to qualify for 2013 shipment.

Hartzell's factory warranty covers defects in material and/or workmanship for the first 1000 hours or for a period of one year from when first installed, whichever occurs first. Hartzell constant speed propellers also have a maximum shelf life of 2 years, after which Hartzell, in Service Letter 61-P, highly recommends that the seals be replaced.

Engine & Flight Instruments

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	<p>Molded Instrument Panel Installation - GlaStar</p> <p>Bring state-of-the-art ergonomics, style and utility to your GlaStar cockpit! Although based on the extremely popular Glasair Future Vision panel, the GlaStar molded instrument panel has been completely re-tooled specifically to fit the GlaStar airframe. Say goodbye to problems of glare and parallax with the panel's unique canted sub-panels, which are individually removable, making instrument and avionics maintenance a snap as well, the installation kit includes the pre-molded, gel-coated panel, all installation materials and hardware;</p>	<p>Part No: 912-05000-01</p>
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	sheet metal and classy stainless-steel cap screws for the panel inserts; and detailed instructions.	
	<p>Low Profile Molded Instrument Panel Installation - Sportsman</p> <p>This lower profile version of the GlaStar panel designed for the Sportsman will fit either the Sportsman or the GlaStar. The top corners of the panel are more rounded allowing better visibility over the nose. The molded instrument panel has been completely re-tooled specifically to fit the Sportsman airframe. The panel's unique sub-panels, are individually removable, making instrument and avionics maintenance a snap, the installation kit includes the pre-molded, gel-coated panel, all installation materials and hardware; sheet metal and classy stainless-steel cap screws for the panel inserts; and detailed instructions.</p>	Part No: 912-05100-01
	<p>Glare Shield for the Molded Instrument Panel - GlaStar</p> <p>The Sportsman Glare Shield is specifically designed to fit over the Sportsman Low Profile Molded Instrument Panel (912-05100-01). It is lightweight yet strong and can be easily painted or upholstered to match any interior. The optional Defrost Manifold Kit 930-05000-03 (shown in picture) can be fit under the glare shield to provide excellent airflow over the window in cooler climates.</p>	Part No: 930-04000-01
	<p>Glare Shield for the Sportsman Low Profile Instrument Panel - Sportsman/GlaStar</p> <p>The Sportsman Glare Shield is specifically designed to fit over the Sportsman Low Profile Molded Instrument Panel (912-05100-01). It is lightweight yet strong and can be easily painted or upholstered to match any interior. The optional Defrost Manifold Kit 930-05000-03 (shown in picture) can be fit under the glare shield to provide excellent airflow over the window in cooler climates.</p>	Part No: 930-05000-01
	<p>Defrost Manifold - Sportsman/GlaStar</p> <p>The Defrost Manifold Kit is specifically designed to fit under the Sportsman Glare Shield (930-05000-01) and the GlaStar Glare Shield (930-04000-01) to provide excellent airflow over the window in cooler climates. Kit contains manifold, tube and diffuser plate.</p>	Part No: 930-05000-03

Custom Labeling

Custom labeling for instrument panels and rocker switches are available direct through Aircraft Engravers, phone (203) 653-2780, fax (203) 654-7324. If you have seen or read about Ken Johnson's Grand Champion Glasair III, these are the folks that provided his labeling. Call them for more information.

Avionics, Headers, & Intercoms

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	<p>LightSpeed QFR XC2 Headset</p> <p>10-12 dB of Active Cancellation 24-26 dB of Passive Attenuation Exclusive AES Battery 'Time Out' Auto Shut-Off Aux Audio Input Significant reduction in the 120-200Hz range Additional active attenuation out beyond 600 Hz Small In-Line Battery Control Box Two 'AA' batteries provide 25 hours of operation Battery Status Indicator</p> <p>Dual volume controls, stereo/mono selection and a LED battery "fuel gauge" to monitor usage Reversible Boom Allowing for Left or Right Side Operation Adjustable Gain Pre-amp Allowing for Field 'Balancing' of Mic Sensitivities</p> <p>Color: Black</p> <p>3 Year Warranty from LightSpeed</p>	Part No: 121-3010-01
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	<p>LightSpeed Thirty 3G Headset (battery powered)</p> <p>28-30dB of Active Cancellation 12-22dB of Passive Attenuation Exclusive AESTM "Auto Shut-Off" powers down the Active Electronics if system is left unattended. Personal Side-Tone EQ with Bass and/or Treble Boosting Cell Phone Interface Auxillary Audio Interface Weighs under 16 ounces ANR Power for 14-24 Hours on just Two AA Batteries Independent left and right ear volume controls Stereo-or-mono switchable Temperature Sensitive Confor-Foam Ear Seals Padded Headset Bag, Mic Wind Screen, and (2) AA Batteries Included. Interface Cables for Music / Cell Phone Low battery indicator</p> <p>Color: Blue</p> <p>3 Year Warranty from LightSpeed</p>	<p>Part No: 121-3020-01</p>
	<p>LightSpeed Thirty 3G Headset (panel powered)</p> <p>The Quietest LightSpeed Has Ever Made! 28-30dB of Active Cancellation 12-22dB of Passive Attenuation</p> <p>Exclusive Glastar, Sportsman or Glasair Logo available on each ear-cup! Exclusive AESTM "Auto Shut-Off" powers down the Active Electronics if system is left unattended. Personal Side-Tone EQ with Bass and/or Treble Boosting Cell Phone Interface Auxiliary Audio Interface Weighs under 16 ounces Panel Powered, single cord Independent left and right ear volume controls Stereo-or-mono switchable Temperature Sensitive Confor-Foam Ear Seals Padded Headset Bag, and Mic Wind Screen Included. Interface Cables for Music / Cell Phone</p> <p>Color: Grey</p> <p>3 Year Warranty from LightSpeed</p> <p>*to purchase the panel receptacle (Lemo Redel part number PTG.M0.6NL.LC65N) contact Earle & Brown @ 425-885-5064.</p>	<p>Part No: 121-3030-01</p>

Cabin & Cockpit Accessories

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	<p>Door Latch Retrofit Kit</p> <p>This option kit greatly improves the function and appearance of the door latch mechanism resulting in more positive latching and a tighter seal on the main cabin doors. The upgrade kit contains stronger, larger diameter aluminum pushrods, machined aluminum clevis ends and threaded inserts. Installation of the threaded inserts and clevis ends is simple and easy and the length adjustment feature of the pushrod assemblies allows for complete engagement of each door latch into its respective door dog. Eliminates tolerance build-up and bowing of the pushrods under load.</p> <p>Also included is aluminum sheet for fabrication of new latches and doublers, machined aluminum spacers, 3/8 diameter Nylon rod used as friction pad material, and hardware for attachment of the pushrods to the latches.</p> <p>This kit does not come with prefabricated door dogs, which are highly recommended.</p>	<p>Part No: 940-07100-03</p>
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	<p>Pre-fabricated Door Dogs</p> <p>This option kit saves you hours of fabricating the door dogs. The prefabricated dogs are deburred and ready to install.</p>	<p>Part No: 940-07100-01</p>								
	<p>Sportsman Door Lock/Ignition Switch Installation</p> <p>Secure your investment with the door lock/ignition switch-installation! Both cabin door locks, both baggage door locks and the ignition switch all use a common key so you'll never have to fumble for the right key. In addition to the three locksets and a standard, five position aircraft magneto switch, the kit includes an extra key, all installation parts and hardware, and detailed instructions.</p>	<p>Part No: 921-03000-01</p>								
	<p>Dual Brake Installation - GlaStar</p> <p>Share the braking duties with complete co-pilot's side toe brakes - highly recommended for GlaStar owners who intend to put their spouses and/or teenage kids in the left seat! This installation kit includes two Matco master cylinders with custom GlaStar clevises; all required sheet metal, angle stock and hardware, all necessary tubing and fittings and detailed installation instructions.</p>	<p>Part No: 991-01000-01</p>								
	<p>Dual Brake Installation - Sportsman</p> <p>Share the braking duties with complete co-pilot's side toe brakes - highly recommended for Sportsman owners who intend to put their spouses and/or teenage kids in the left seat! This installation kit includes two Matco master cylinders with custom GlaStar clevises; all required sheet metal, angle stock and hardware, all necessary tubing and fittings and detailed installation instructions.</p>	<p>Part No: 991-01000-03</p>								
	<p>Cast Rudder Pedals - GlaStar</p> <p>They not only look good they are functional. We have used these pedals for years on the Glasair's, these come out of the cast with "Glasair" on them. You will find it is easier to stay off the brakes with these pedals. All the hardware and installation instructions are included. (2 Pedals per set)</p>	<p>Part No: 991-02000-01</p>								
	<p>Control Stick Grips</p> <p>These stick grips are superb quality, made of black molded hard plastic with red switches. "Glasair" is attractively molded into the top of the handle (except on the military type grip). Two styles are available: civilian type (#'s 1451, 1452, 1453), and military type (#1460). The neutral military stick will fit either hand and comes with one trigger switch only, the remaining three switch positions are left unfilled and switches may be added by the builder, if desired. The other grips come with the switches described. Switch functions may be used for intercom, radio transmit, auto-pilot disengage, roll trim, etc. Weight: .25 lb. Ea. There is often a lead time on these parts, so order early.</p> <p>*These grips include a sleeve to match the inside diameter of the grip to the outside diameter of the control stick.</p>	<table border="1"> <tr> <td data-bbox="472 1570 1084 1602">2 Switch, Rt. Hand</td> <td data-bbox="1089 1570 1507 1602">Part No: 621-1451-101</td> </tr> <tr> <td data-bbox="472 1608 1084 1640">1 Switch, Rt. Hand</td> <td data-bbox="1089 1608 1507 1640">Part No: 621-1452-101</td> </tr> <tr> <td data-bbox="472 1646 1084 1677">1 Switch, Lt. Hand</td> <td data-bbox="1089 1646 1507 1677">Part No: 621-1453-101</td> </tr> <tr> <td data-bbox="472 1684 1084 1715">4 Switch, Neutral</td> <td data-bbox="1089 1684 1507 1715">Part No: 621-1460-101</td> </tr> </table>	2 Switch, Rt. Hand	Part No: 621-1451-101	1 Switch, Rt. Hand	Part No: 621-1452-101	1 Switch, Lt. Hand	Part No: 621-1453-101	4 Switch, Neutral	Part No: 621-1460-101
2 Switch, Rt. Hand	Part No: 621-1451-101									
1 Switch, Rt. Hand	Part No: 621-1452-101									
1 Switch, Lt. Hand	Part No: 621-1453-101									
4 Switch, Neutral	Part No: 621-1460-101									
	<p>Cabin Air Vent Installation</p> <p>Keep your cool under the most difficult circumstances! This installation - which has been performance-tested at the hottest airshows in the country! -- uses a sleek NACA-style scoop on each side of the fuselage to provide separate, individually adjustable ventilation sources for the pilot and co-pilot. The complete kit includes two pre-molded air boxes with integral NACA scoops, two wide-mouthed "eyeball" ventilators, all installation hardware and detailed instructions.</p>	<p>Part No: 938-02000-01</p>								



Seat Belt and Shoulder Harness Set - GlaStar

Designed for the GlaStar, these seat belts and dual shoulder harnesses feature "cruiser gray" nylon straps customized with the GlaStar logo and chromed buckles. These belts are brand new, PMA-approved and manufactured to our size specifications for the GlaStar. The price shown is for belts for one seat only. All necessary attach hardware for both seats is provided in the standard GlaStar kit.

Part No: 803-00630-01

Seat Belt and Shoulder Harness Set - Sportsman

Designed for the Sportsman, these seat belts and shoulder harnesses feature "cruiser gray" nylon straps customized with the Sportsman logo and chromed buckles. These belts are brand new, PMA-approved and manufactured to our size specifications for the Sportsman. The price shown is for belts for one seat only. All necessary attach hardware for both seats is provided in the standard Sportsman kit.

Left Side

Part No: 803-00690-01

Right Side

Part No: 803-00690-02

Seat Belt, SP, Left, Rear

Part No: 803-00575-01

Seat Belt, SP, Right, Rear

Part No: 803-00575-02

GlaStar Windshields

1/8" vs. 3/16" Windshields: Your kit comes with a windshield that is 1/8" thick; however, we offer the 3/16" windshield as an option for those who, for one reason or another, have decided that they really need a thicker windshield. Why do we supply a 1/8" windshield as opposed to a 3/16" windshield? First of all, the standard windshield thickness on many Cessnas and Pipers (and other homebuilts) is 1/8". Secondly, one must consider the added weight of the thicker windshield vs. any additional "safety" it might provide. In this regard, when Stoddard-Hamilton developed the Glasair III, they investigated general aviation aircraft bird-strike issues, observed bird-strike tests, etc. What they concluded was that the only windshields capable of offering any real protection from bird strikes are substantially thicker (as is 1/2" thick or greater), 'stretched' acrylic windows, which are used primarily on commercial, private and military jets. The weight and expense of this type of window has kept them priced out of the kitplane realm and similar sized general aviation aircraft. Will a 3/16" windshield offer an increase in bird-strike protection on a GlaStar? Based upon our research, we believe that, if a hawk, pigeon or seagull-size bird impacts near the center of either a 1/8" or 3/16" windshield, (or almost any windshield on small general aviation aircraft), the bird is likely to penetrate the windshield. Thus, we believe the additional weight of the 3/16" windshield is not worth the minimal, if any, gain in protection from a real-world bird-strike. The good news is that bird-strikes are infrequent; see-and-avoid tactics work for pilots and birds themselves. However we offer the thicker windshield so you can make the decision that is right for you.

Quality and Fit: Be assured that Glasair Aviation has (1) qualified all of our window vendors; (2) specified the highest optical and surface finish quality; and, (3) verified that each window you receive from Glasair Aviation will have high quality optics. (Interestingly, one aftermarket supplier who claims to have superior windows actually purchases windshields from one of our vendors!) Recently, we have evaluated the fit of the windshields that we supply (and compared them to those provided by aftermarket suppliers) and verified that the windows we supply fit very nicely. (Note: should you decide to purchase an aftermarket window or windshield, be forewarned that, based upon our testing, some of these windows do not fit near as well as those currently offered by Glasair Aviation and may require greater force and effort to fit into the fuselage opening.)

1/8" thickness (10.5 lbs.)

Part No: 101-14001-01

3/16" thickness: Part No (16.0 lbs.)

Part No: 101-14001-03

Sportsman Rear Floorboard and Seat Options:

Note: For a complete rear seat installation you must order both of the following kits and also the 803-00575-01 Seatbelt, SP, Left, Rear and 803-00575-02 Seatbelt, SP, Right, Rear listed above. Those desiring not to install the rear seat, but a partial rear floorboard for baggage support, may choose to order kit 930-06000-01 only.



Pilot and Co-Pilot Seats

Now Available - Ergonomically designed seats for your Sportsman or GlaStar. Made from a combination of fire retardant memory and open cell polyurethane foam to provide long-lasting comfort and support. Upholstered in gray faux-leather which is a perfect match to the cage and zolatone interior of the fuselage

Pilot Seat

Part No: 930-07000-11

Co-Pilot Seat

Part No: 930-07000-12

Sportsman Baggage Floorboard & Seat Base Kit

Sold separately for those who may not want to install the rear seat back and restraints. This kit includes a strong, lightweight 1/4" composite floorboard with a set of two support flanged bulkheads conforming to the fuselage belly. The floorboard extends 30" forward of bulkhead A. Kit includes all installation hardware and detailed instructions. Laminating resin not included.

Part No: 930-06000-01

Sportsman Rear Seat Back Kit

This kit includes a lightweight composite, flanged seat back, upper locking bar assembly, a set of welded pivot hinges and fuselage bushing to allow for easy folding of the seat back or complete removal within seconds. All assembly hardware and detailed instructions included.

Part No: 930-06000-03

GlaStar & Sportsman Primer/Zolatone Touch-up Kit

This kit includes one pint of gray polyester primer (with catalyst) and 4 ounces of Gray Stone Zolatone. These materials are for touch-up and repair of the factory interior finish on the GlaStar and Sportsman Jump-Start fuselages. The primer must be thinned 30-40% with Acetone. (not included)

Note: Early fuselages were painted on the inside with a darker primer and Gray Stone Zolatone. This primer can be obtained from any automotive paint supply store that stocks PPG products:

DP50LF (gray) Primer
DP402LF Catalyst
DT Reducer.

Part No: 027-00005-01

Seal Kit, Spar & Cable

Made of soft, thin rubber combined with a gray powder coated cover, the spar seals are designed to close the gaps between the fiberglass wing root and the GlaStar and Sportsman main wing spars, resulting in both a quieter cabin and a "cosmetically improved" interior.

The cable seals are designed to fit against the drain pans and seal the flap and aileron cables as they enter the cabin. Standard, off-the-shelf contact cement is required to install the seals (not included). The seals come with installation instructions PN 063-09071-01

Part No: 962-02000-01

Interior Closeouts

If you like the finished look of the Sportsman interior from the Two Weeks to Taxi Program, all the interior closeouts are now available. To help identify the closeout parts you may need, please [click here](#) for a pdf document with photos.




Fwd Tunnel Cover, Kit 4 way Andair



Part No: 962-03000-01




	Fwd Tunnel Cover, Kit 2 way Swagelok	Part No: 962-03000-02
	Rear Tunnel Cover Kit	Part No: 962-04000-01

Airframe Accessories

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	<p>Sportsman and Glastar Aileron Anti-Servo Kit</p> <p>Description: The Aileron Anti-Servo Kit will lower the GlaStar aileron control forces by a measured 33%, improving overall control harmony between pitch and roll forces. (Note: the Anti-Servo Kit is included in all Sportsman kits.) Installation is made easy with our pre-assembled kit, which includes detailed installation instructions. The kit includes a fully assembled 23" anti-servo tab (with anti-corrosion primer inside), rolled piano hinge, a formed spar section (which is installed in the aileron to support the assembly), an attach bracket, pushrod assembly and all necessary hardware to complete the installation. To install the kit, the left aileron is removed and a 23" x 2.8" section of the inboard trailing edge skins are removed. After trimming, the supplied spar section and hinge is riveted in place and a bracket is attached to the anti-servo tab and the aileron hinge. The supplied pushrod is then trimmed to length, clevises bonded on, and the pushrod assembly installed. Included as standard in the Sportsman kits.</p> <p>Note: The servo-tabs have cosmetic (non-structural) surface scratches. If you intend to polish your servo-tab, you should manufacture your own servo-tab.</p>	<p style="text-align: center;">NGA Part No: 921-06100-01</p>
	<p>Sportsman and Glastar Aileron Electric Trim</p> <p>Description: Our compact, lightweight Aileron Trim Kit makes flying a GlaStar or Sportsman even more enjoyable! It solves the trim imbalance associated with loading or occasional uneven fuel flow from the wing tanks. We were amazed at how well this trim system worked at reducing fuel management and unbalanced stick forces after installing it on the Sportsman prototype. Installation is made easy with this complete kit and detailed assembly instructions. The kit includes a fully assembled 14" trim tab (with anti-corrosion primer inside), rolled piano hinge, a formed spar section (which is installed in the right aileron to support the hinge), attach bracket, trim servo with pushrod assembly, inspection cover and all the wire and electrical connectors necessary to complete the installation. To install, the right aileron is removed and a 14" x 2.8" section of the inboard trailing edge skins are removed. After trimming, the supplied spar section and hinge is riveted in place. The trim servo is then installed inside the aileron through a hole cut-out in the lower skin. A bracket is then attached to the trim tab, the supplied pushrod installed, clevis threaded on, and the pushrod assembly installed. Simple!</p> <p>Note: This kit comes with a 2 wire servo and a 2 wire cable which cannot be used with a panel indicator. The kit does not include the hat switch(es) which one will need on the stick grip(s). If you have already purchased our elevator trim kit, and have ordered the optional Elevator Trim Hat Switch (Part No: 210-0098-001 or 210-0099-001), no additional switches are required. The servo-tabs have cosmetic (non-structural) surface scratches. If you intend to polish your servo-tab, you should manufacture your own servo-tab.</p>	<p style="text-align: center;">NGA Part #: 921-06200-01</p>
	<p>Gear Conversion Kits</p> <p>Enjoy the best of both worlds! Since an important element of Sportsman and GlaStar versatility is the ability to switch back and forth from one landing gear</p>	<p style="text-align: center;">Part No: 937-01000-01</p>

<p>937-01100-01</p>  <p>937-03000-01</p>	<p>configuration to another quickly and easily, our landing gear conversion kits make shopping for the necessary parts quick and easy too! No matter which gear you're starting with, we've got a kit that will get you where you're going. Conversion kits do not include any parts that are common to the "before" and "after" installations (such as main gear legs, for example) but include all other required parts, hardware and instructions. Please be aware that there is a fairly lengthy lead time on some landing gear parts, so please call for availability.</p> <p>A. Tricycle to 5.00 X 5 taildragger - GlaStar</p> <p>A1. Tricycle to 6.00 x 6 Taildragger - Sportsman</p> <p>Includes two hardware trays, main gear leg fairing (aluminum and hinge), Scott 3200 tail wheel assy., tail wheel spring set, steering springs, tail wheel cable assy. and spring attach angles.</p>	
	<p>B. Tricycle to 6.00 X 6 taildragger - GlaStar</p> <p>*Same as (A) 5x5 tail wheel conversion kit above with the addition of a set of Grove 6/8x6 wheels, brakes, 6x6 tires and tubes and 6x6 main gear axle sleeves and brake flange weldments. Assembly instructions included.</p>	<p>Part No: 937-01200-01</p>
	<p>C. Tricycle to 8.00 X 6 taildragger - GlaStar</p> <p>*Same as (B) 6x6 taildragger kit above with 8x6 tire tube package rather than 6x6 tires.</p>	<p>Part No: 937-01100-01</p>
	<p>D. 5.00 X 5 taildragger to tricycle - GlaStar</p> <p>*Includes nose gear strut, upper and lower nose gear trunnion weldments, nose gear fork, axle and spacers, stop plate weldment, nose wheel assy., nose tire and tube, nose wheel pant and strut fairing and all installation hardware.</p>	<p>Part No: 937-02000-01</p>
	<p>E. 6.00/8.00 X 6 taildragger to tricycle - GlaStar</p> <p>* Same as (D) with the addition of a Grove 5x5 wheel and brake set, 5x5 tires, tubes, wheel pant set (left and right) and all installation hardware.</p>	<p>Part No: 937-02100-01</p>
	<p>F. 5.00 X 5 taildragger to 6.00 X 6 taildragger - GlaStar</p> <p>*Includes a Grove 6/8x6 wheel and brake set, 6x6 tires and tubes, axle flange weldments, axle spacers and sleeves. All installation hardware is included.</p>	<p>Part No: 937-03100-01</p>
	<p>G. 5.00 X 5 taildragger to 8.00 X 6 taildragger - GlaStar</p> <p>*Same as (F) but with 8x6 tires and tubes.</p>	<p>Part No: 937-03000-01</p>
	<p>H. 6.00 X 6 taildragger to Trike - Sportsman</p>	<p>Part No: 039-01415-01</p>
	<p>I. 6.00 X 6 tricycle to TUNDRA tricycle - Sportsman</p> <p>For all of those that saw the Tundra Trike at Oshkosh and want to configure your Sportsman the same, the option is now available. Go the same places that the taildragger goes, but now you don't have to deal with a Taildragger.</p> <p>*Includes, nose gear fork, axle and spacers, nose wheel assy., (1) 600 x 6 Tire and tube and (2) 800 x 6 tire and tubes and all installation hardware.</p>	<p>Part No: 937-06000-01</p>
	<p>Extra Main Gear Leg Set - GlaStar</p>	<p>Part No: 937-04000-01</p>

 <p>933-01000-03</p>  <p>201-41000-05/6</p>	<p>Auxiliary Fuel Tanks</p> <p>GlaStar and Sportsman customers with the old style fuel tanks PN 201-41000-05 & -06 can get their fuel sensing for the main tanks with mechanical gauges PN 201-40030-01 & -02. Few destinations are out of reach with the 20 gallons of additional fuel capacity available with the auxiliary fuel tank installation kit. A 10-gal. aluminum tank is easily installed in the outer bay of each wing (or easily retrofitted to a finished aircraft). The aux tanks feed into the two main tanks via a pair of electric transfer pumps. The pumps, when not operating, provide a positive shut-off in both directions between the aux tanks and the mains, preventing any outflow of fuel from the mains. Fuel management with this system is a simple matter of burning down the main tanks and then running one or both transfer pumps to refill them. Customers wishing to use the electronic fuel sending units PN 201-40030-05 can monitor all 4 tanks.</p>	
	<p>Auxiliary Fuel Tank Installation Kit (Included as standard in Sportsman Kits)</p> <p>The installation kit includes the tanks, pumps, custom sump drain fittings, all plumbing and wiring (up to the instrument panel), all installation materials and hardware, and detailed instructions covering both original equipment and retrofit installations. Note: The kit does not include switches or circuit breakers.</p> <p>For customers who wish to source their own pumps, drain fittings, plumbing, wiring, installation materials and hardware, we also offer the auxiliary fuel tanks by themselves.</p>	<p>Part No: 933-01000-04</p>
	<p>Auxiliary Fuel Tank (Tank Only) Left</p>	<p>Part No: 201-41000-07</p>
	<p>Auxiliary Fuel Tank (Tank Only) Right</p>	<p>Part No: 201-41000-08</p>
	<p>Electric Fuel Sensors</p> <p>Simple, lightweight and reliable! These electric fuel sensors bolt up to the mounting flanges on the Sportsman main and aux fuel tanks, providing information for electric gauges and/or EFIS units (such as Advanced Flight Systems). These sensors have a custom float arm and readjusted angular travel stops specifically for the Sportsman tanks. Note: The price below is for one gauge, including gasket and mounting hardware: two required for sensing of main tanks only or four required for sensing of main and aux tanks per aircraft.</p>	<p>Part No: 201-40030-05</p>
	<p>Mechanical Fuel Gauge</p> <p>Simple, lightweight, low-tech and reliable! These Rochester gauges bolt up to the mounting flanges on the Sportsman and GlaStar main fuel tanks, providing easy-to-read fuel level indication. Although they utilize the same basic, well proven float-arm design as the Rochester gauges sold by the large aircraft supply houses, these gauges have a custom float arm and readjusted angular travel stops specifically for the Sportsman and GlaStar tanks, Don't be fooled into buying "cheaper" fuel gauges that might cost you dearly because of their inaccurate readings! Note: The price below is for one gauge, including gasket and mounting hardware: two required per aircraft.</p>	
	<p>Left Fuel Gauge</p>	<p>Part No: 201-40030-01</p>
	<p>Right Fuel Gauge</p>	<p>Part No: 201-40030-02</p>



Flush Fuel Caps

By popular demand! Replace the standard, "John Deere" fuel caps (actually, that's one of the more polite names we've heard!) with sleek, precision-machined, flush-fitting caps. Locking and non-locking varieties are available. Both types feature one-piece, anodized aluminum bodies that screw directly into the filler opening of the Sportsman and GlaStar tanks - either the mains or the aux tanks. The non-locking caps feature a high-impact plastic, lever-action cap, while the locking caps are of an all-metal design. Note: Prices are for single caps - one required per tank.

Locking Fuel Caps

Part No: 201-40004-01

Non-locking Fuel Caps

Part No: 201-40003-01

Wing Fold Options

Since a number of GlaStar owners choose not to utilize the wing fold feature, and our desire is to offer the GlaStar at the lowest possible price, the following three (3) items, which facilitate the ease and speed of wing folding, are offered as options:



902-01000-01

Wing Brace Kit - GlaStar

This kit includes two tubular steel strut assemblies to support the inboard leading edges of the wings while they're folded, two shorter tie-struts to secure the outboard trailing edges of the wings to the vertical fin; all necessary hardware and sheet stock for the race attach points, and detailed instructions. All the strut assemblies come with anti-corrosion protection, and the leading-edge struts include threaded clevis ends for precise length adjustment. Note: the wing-fold mechanism itself is standard in the Sportsman and GlaStar kit. No part of this option kit is necessary for flight.

Part No: 902-01000-01



940-01000-01

Wing Brace Kit - Sportsman

This kit includes two tubular steel strut assemblies to support the inboard leading edges of the wings while they're folded, two shorter tie-struts to secure the outboard trailing edges of the wings to the vertical fin; all necessary hardware and sheet stock for the race attach points, and detailed instructions. All the strut assemblies come with anti-corrosion protection, and the leading-edge struts include threaded clevis ends for precise length adjustment. Note: the wing-fold mechanism itself is standard in the Sportsman and GlaStar kit. No part of this option kit is necessary for flight.

Part No: 902-01050-01



945-01000-01

Wing Drain Pans - GlaStar

The wing drain pan area will keep rain out of the baggage area. This is a valuable addition for those who fold the wings often. We have conducted field tests in the rainiest part of the country, (which happens to be right out our door, and we are still dry!) The photo below shows the panel from the outside and inside of the fuselage.

Part No: 940-01000-01

Wing Drain Pans - Sportsman




The wing drain pan area will keep rain out of the baggage area. This is a valuable addition for those who fold the wings often. We have conducted field tests in the rainiest part of the country, (which happens to be right out our door, and we are still dry!) The photo below shows the panel from the outside and inside of the fuselage.

Part No: 940-01100-01

Top Deck Hatch Quarter-Turn Fasteners

If you intend to fold your Sportsman's or GlaStar's wings often, you'll definitely want quick-release fasteners on the top-deck hatches. This kit includes 26 quarter-turn CAMLOC fasteners and rivets to replace the screws and nutplates that come in the standard fuselage kit. Fastener installation instructions are also included.

Part No: 945-01000-01

	<p>Fastener Retro Kit, Top Deck Hatch</p> <p>To retrofit an existing Sportsman's or GlaStar's top-deck hatches with quick-release fasteners. This kit includes longer 34 quarter-turn CAMLOC fasteners and rivets to replace the screws and nutplates that are the standard fuselage kit installation. Fastener installation instructions are also included.</p>	<p>Part No: 945-01000-02</p>
	<p>Anti-Chafe Tape, 3/4" Wide</p> <p>This .010" thick ultra-high molecular weight (UHMW) anti-chafe tape offers maximum abrasion resistance. It should be used to protect against chafing between the fuel tanks and the wing hat sections, as well as between the horizontal stabilizer and its associated strakes and fairings. Price is for an 18-yd. roll.</p>	<p>Part No: 033-01001-01</p>
 <p>912-02000-01</p>  <p>120-5812-012</p>	<p>Heated Pitot/Static System (without Pitot Head)</p> <p>This kit includes installation instructions, mounting materials, wiring, static ports and all the plumbing for installation of a heated, IFR-certifiable pitot/static system. However we have removed the heated pitot tube and listed it separately. We are happy to order the tube for purchasers who request it (see next item below), but it is a standard tube that may be more easily found through some of the large aircraft supply houses, which have the advantage of purchasing such items in greater volume. Note: This kit does not contain a switch or circuit breaker.</p>	<p>Part No: 912-02000-01</p>
	<p>Heated Pitot Tube</p> <p>This 14 V heated pitot tube is a military-spec, "L" shaped AN5812-12 type, which uses 1/4" AN flared tube fittings. The tube comes with an AN315-1 phenolic connector receptacle</p>	<p>Part No: 120-5812-012</p>
	<p>Non-Heated Pitot/Static System</p> <p>This kit includes installation instructions, mounting materials, custom calibrated static ports, pitot tube and all plumbing for a non-heated pitot/static system. Note: This system is suitable for VFR flight only.</p>	<p>Part No: 912-01000-01</p>
	<p>Tires and Tubes</p> <p>Goodyear 5.00 x 5 main wheel tire</p> <p>Generic* 5.00 x 5 main wheel tire</p> <p>Generic* 6.00 x 6 main wheel tire</p> <p>Generic* 8.00 x 6 main wheel tire</p> <p>Generic* 11.4 x 5 nose wheel tire</p> <p>5.00 x 5 main wheel tube</p> <p>6.00 x 6 main wheel tube</p> <p>8.00 x 6 main wheel tube</p> <p>11.4 x 5 nose wheel tube</p>	<p>Part No.: 800-0660-003</p> <p>Part No.: 800-0660-001</p> <p>Part No.: 080-06060-01</p> <p>Part No.: 080-08060-01</p> <p>Part No.: 800-0655-001</p> <p>Part No.: 800-0675-001</p> <p>Part No.: 080-06075-01</p> <p>Part No.: 080-08075-01</p> <p>Part No.: 800-0670-001</p>
	<p>Brake Lining Kit</p> <p>Replacement brake linings for Cleveland brakes. Since all GlaStar models use differential braking to assist in directional control, it is important to replace the linings before they are worn excessively. Excessively worn linings may allow the O-ring on the brake piston to move past its seal in the caliper, resulting in loss of fluid pressure and immediate brake failure, not to mention the damaged discs.</p> <p>The Brake Linings are for 5" wheels</p>	
	<p>Model: GlaStar</p>	<p>Part No: 900-0678-501</p>
	<p>Replacement Cleveland Brake Master Cylinder</p>	

	<p>Stainless Steel Brake Line Upgrade</p> <p>Upgrade your brake lines to a stainless steel braided line. Can be retrofit on all GlaStar and Sportsman aircraft. Includes two brake line assemblies and fittings.</p>	<p>Part No: 991-03000-201</p>
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Electrical Options & Accessories



Top

	<p>Lighted Panel Switches</p> <p>Manufactured by Microswitch, these panel switches are an enhancement to any instrument panel. These are a flush mounted lighted rocker switch that illuminates an opaque white cap when you press it to the "on" position. The white caps can easily be labeled for quick cockpit reference. The switch bracket is able to house (1) master switch and (7) rocker switches. Installation is quick and simple. These are the same Panel Switches that are installed in the Glasair Super II-S prototype. Order early as stock quantities are limited.</p>
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Switch Bracket (One Needed)	Part No: 210-0061-008
Switch-Cap (Up to 7 req.)	Part No: 210-0054-010
Switch-Lamp 14 V (Up to 7 req.)	Part No: 210-0073-001
Switch-Lamp 28 V (Up to 7 req.)	Part No: 210-0085-001
14 Volt High Intensity	Part No: 210-0070-001
28 Volt High Intensity	Part No: 210-0017-001
Master Switch (One Needed)	Part No: 210-0034-001
Complete Eight-Switch Installation - 14 Volt	Part No.: 210-0061-501

	<p>Wire Marking System</p> <p>This is an excellent wire marking system, as used on the Glasair III prototype. The system consists of a booklet of tabs that can be marked with a code number, peeled off, and then wrapped around the wire.</p>	<p>Part No: 870-0014-101</p>
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	<p>Nav/Strobe Light System</p> <p>This navigation and strobe light system brings your Sportsman or GlaStar into full conformity with all FAR part 23 standards for aircraft position and-collision lighting. The system consists of two wingtip-mounted light units, each containing an appropriately colored position light, a white strobe and an aft-shining white position light. These light heads are manufactured by Whelen Engineering, the world leader in aircraft lighting systems.</p> <p>We offer the installation kit for those who already have the Whelen HD60 installation kit, left and right A600 light heads and A413 power supply. Note: The installation kit does not includes switches or circuit breakers.</p> <p>Installation kit only</p>	<p>Part No: 921-02000-02</p>
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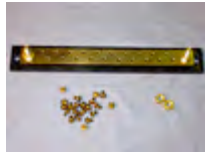
 <p>210-0359-001/4</p>  <p>210-0359-003/5</p>	<p>Lamps</p> <table border="1"> <tr> <td data-bbox="467 1524 1089 1558">Navigation Lamp, 14 V</td> <td data-bbox="1089 1524 1511 1558">Part No: 210-0359-001</td> </tr> <tr> <td data-bbox="467 1558 1089 1591">Navigation Lamp, 28 V</td> <td data-bbox="1089 1558 1511 1591">Part No: 210-0359-004</td> </tr> <tr> <td data-bbox="467 1591 1089 1625">Tail Lamp, Glasair I, 14 V</td> <td data-bbox="1089 1591 1511 1625">Part No: 210-0359-002</td> </tr> <tr> <td data-bbox="467 1625 1089 1659">Tail Lamp, Glasair II, III 14 V</td> <td data-bbox="1089 1625 1511 1659">Part No: 210-0508-014</td> </tr> <tr> <td data-bbox="467 1659 1089 1692">Tail Lamp Glasair II, III 28 V</td> <td data-bbox="1089 1659 1511 1692">Part No: 210-0508-028</td> </tr> <tr> <td data-bbox="467 1692 1089 1726">14 Volt Landing Light</td> <td data-bbox="1089 1692 1511 1726">Part No: 210-0359-003</td> </tr> <tr> <td data-bbox="467 1726 1089 1755">28 Volt Landing Light</td> <td data-bbox="1089 1726 1511 1755">Part No: 210-0359-005</td> </tr> </table>	Navigation Lamp, 14 V	Part No: 210-0359-001	Navigation Lamp, 28 V	Part No: 210-0359-004	Tail Lamp, Glasair I, 14 V	Part No: 210-0359-002	Tail Lamp, Glasair II, III 14 V	Part No: 210-0508-014	Tail Lamp Glasair II, III 28 V	Part No: 210-0508-028	14 Volt Landing Light	Part No: 210-0359-003	28 Volt Landing Light	Part No: 210-0359-005
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Electrical Kit

Save money and shopping time all at once with Glasair Aviation, LLC's Electrical Kit! The kit includes virtually all the electrical "bits and pieces" you'll need for the typical Sportsman or GlaStar electrical system installation, as well as a 36-page set of illustrated general installation instructions (including 11" x 17" fold-out schematics of a typical electrical system). Parts in the kit include three continuous-duty solenoids, ground bus bar, quick-disconnect plugs, ring terminals, butt connectors, knife splices, terminal nipples, cable ties, heat-shrink tubing, aircraft-grade wire, etc, etc, - nearly 1,000 items in all. Buy all these items separately, and you'll pay almost \$100 more! Note: Due to the widely varying requirements of different levels of electrical equipment builders may opt for, this kit does not include any switches or circuit breakers.

Part No: 921-05000-01



Ground Bus Bar

These high quality Cole Hersey Bus Bars provide common terminal points for the positive and negative leads of electrical components in your Glasair. Two needed per plane.

Part No: 210-0448-001

Antennas

These lightweight, double-element dipole antennas are designed for installation on the inside of fiberglass aircraft structures. They consist of self-adhesive copper foil tape trimmed to the proper length for tuning and soldered to double-shielded tri-axial cable with ferrite matching cores. Easy to install, these are used exclusively on all of our factory aircraft with excellent results and zero airframe drag! Kits include the pre-soldered antenna and cable assembly, a male BNC connector and instructions.(Note: With the tri-axial cable shortened appropriately, this antenna can also be mounted on the fuselage sidewall behind the baggage bulkhead as a secondary COM antenna.)

Com (118-1326 Mhz), vertical fin mounting Triax cable length 275"

Part No: 211-0112-501

MKR (75 MHz) triax cable length 161"

Part No: 211-0112-503

FM entertainment (88-108 MHz) Triax cable length 148"

Part No: 211-0112-504

NAV/VOR (108-118 MHz) Left Wingtip

Part No: 211-0112-506

Antenna - Transponder

Part No: 211-0112-507

Individual Electrical Components

Following is a list of electrical components available for builders who are working on the electrical system installation in their Glasairs. Other electrical system components, such as replacements for components included with the retractable gear kits, are also available. Call our parts order desk if what you need is not listed.



Master Switch, Dual (need cover)

Part No: 210-1994-011

Master Switch Cover

Part No: 210-1843-001

Control Stick Grip Momentary Switch

These switches are specifically for use in our Glasair stick grips. They are of excellent quality and meet or exceed aviation mil-spec. Not useful for autopilot release.

Part No: 620-1111-001

Autopilot Switch

Part No: 620-1212-001

Elevator Trim Hat Switch

This handy four way aviation mil-spec switch mounts easily on the Glasair Military stick grip for use with the elevator trim system. It is conveniently marked for easy visual reference. Used for both pitch and roll. Use with Stick Grip 621-1460-101

Part No: 210-0098-001

Elevator Trim Hat Switch

Use with Stick Grip 621-1452-101 and 621-1453-101

Part No: 210-0099-001

Solenoids



Solenoid, Cont. Duty, 14 - V

Part No: 210-0024-059

Solenoid, Cont. Duty 28 - V



Part No: 210-0024-063

	Microswitches (each solenoid requires a 1.5 amp diode)	
	Microswitch, 1XE1	Part No: 210-0100-001
	Microswitch, 411SM1H4 w/actuator	Part No: 210-0411-004
	Circuit Breakers	
	Circuit Breaker, 2 Amp, Klixon	Part No: 210-0200-002
	Circuit Breaker, 3 Amp, Klixon	Part No: 210-0200-003
	Circuit Breaker, 4 Amp, Klixon	Part No: 210-0200-004
	Circuit Breaker, 5 Amp, Klixon	Part No: 210-0200-005
	Circuit Breaker, 7.5 Amp, Klixon	Part No: 210-0200-007
	Circuit Breaker, 10 Amp, Klixon	Part No: 210-0200-010
	Circuit Breaker, 15 Amp, Klixon	Part No: 210-0200-015
	Circuit Breaker, 25 Amp, E-T-A	Part No: 210-0200-025
	Circuit Breaker, 40 Amp, E-T-A	Part No: 210-0200-040
	Circuit Breaker, 60 Amp, E-T-A	Part No: 210-0200-060
	Diodes	
	400 PIV 1.5 AMP	Part No: 210-5395-015
	IN 5400 3.0 AMP	Part No: 210-5400-001
	Amp Connectors	
	AMP Connector, Male, 3 Pin, w/Pins	Part No: 210-0441-001
	Pin, Contact, 24-18 gauge	Part No: 210-0441-002
	AMP Connector, Female, 3 Socket, w/Pins	Part No: 210-0442-001
	Pin, Sok, 24-18 gauge	Part No: 210-0442-002
	AMP Connector, Male, 2 Pin	Part No: 210-1022-003
	Pins for above	Part No: 210-2103-002
	AMP Connector, Female, 2 Socket	Part No: 210-2022-003
	Pins for above	Part No: 210-1103-002
	Wire	
	Coaxial Cable, Antenna	Part No: 870-0058-001
	Triaxial Cable, Antenna	Part No: 870-0058-002
	Wire, 2 Ga., Single Conductor	Part No: 870-0228-002
	Wire, 4 Ga., Single Conductor	Part No: 870-0228-004
	Wire, 8 Ga., Single Conductor	Part No: 870-0228-008
	Wire, 10 Ga., Single Conductor	Part No: 870-0228-010
	Wire, 14 Ga., Single Conductor	Part No: 870-0228-014
	Wire, 16 Ga., Single Conductor	Part No: 870-0228-016
	Wire, 18 Ga., Single Conductor	Part No: 870-0228-018
	Wire, 20 Ga., Single Conductor	Part No: 870-0228-020
	Wire, 22 Ga., Single Conductor	Part No: 870-0228-022
	Wire, 24 Ga., Single Conductor	Part No: 870-0228-024
	Wire, 16 Ga., 2 Cond., Shielded	Part No: 870-0228-162
	Wire, 18 Ga., 2 Conductor	Part No: 870-0228-182
	Wire, 20 Ga., 2 Cond., Shielded	Part No: 870-0228-202
	Wire, 20 Ga., 2 Conductor	Part No: 870-0228-212
	Wire, 20 Ga., 3 Conductor	Part No: 870-0228-203
	Adhesive Mounting Base used for attaching wire to surface	Part No: 210-0345-001
	Terminal Blocks	
	Terminal Block Track	Part No: 210-6018-051
	Terminal Block Assembly	Part No: 210-6041-011
	Terminal Block End Stop	Part No: 210-6041-111
	Spiral Wrap	
	¼" Spiral Wrap	Part No: 830-0598-001
	3/8" Spiral Wrap	Part No: 830-0598-002
	½" Spiral Wrap	Part No: 830-0598-003

	High Temperature Spiral Wrap	
	1/8" High Temperature	Part No: 830-0125-001
	1/4" High Temperature	Part No: 830-0250-001
	3/8" High Temperature	Part No: 830-0375-001
	1/2" High Temperature	Part No: 830-0500-001
	Heat-Shrinking Tubing Seal and insulate splices and terminal connections like the pros do. Black color. Prices are per foot.	
	1/8"	Part No.: 830-0352-001
	3/16"	Part No.: 830-0352-002
	1/4"	Part No.: 830-0352-004
	3/8"	Part No.: 830-0352-003
	Electric Elevator Trim System	
	<p>Retrofit Installation</p> <p>This kit is based on an elevator-mounted electric servo-motor that activates the trim tab through a rigid pushrod in the interior of the elevator. Advantages of electric trim over manual trim include easier installation, much easier removal of the horizontal stabilizer and elevator for trailering or storage, reduced pilot workload when operating the trim, and a cleaner, more aesthetic installation.</p> <p>This kit includes the servo, the pushrod and all linkage hardware; all mounting hardware, a color-coded wiring harness and all electrical connectors; and detailed installation instructions. Note: this kit must be ordered prior to initial delivery of the tail kit.</p>	Part No: 921-01000-04


Tools & Supplies

Top

	<p>Bidirectional Cloth</p> <p>Standard bi-directional weave used in Glasair and supplied with kit. Style 7781. 9 oz. per square yard. 50" width. (10 ft. minimum order). Note: This cloth is chemically treated (chemical sizing) specifically for vinylester resin to achieve maximum strength.</p>	Part No: 270-0110-002
	<p>DBM Cloth (10ft minimum)</p> <p>3" width</p>	Part No: 027-00002-01
	<p>Milled Fibers</p> <p>Chopped fiberglass strands used for structural bonding and filling when mixed with resin. 250 gram package.</p>	Part No: 270-0130-001
	<p>Q-Cells</p> <p>Quartz microspheres uses as a lightweight filler when mixed with resin, not to be used for structural bonding. 200 gram package.</p>	Part No: 270-0140-001
	<p>Cabosil</p> <p>Finely ground glass powder used as a filler in resin mixtures not to be used for structural bonding. However, small amounts added to mill fiber/resin mixture will help to smooth it out. 100 gram package.</p>	Part No: 270-0131-002
	<p>Partall Film #10</p> <p>PVA release agent, used primarily as a mold release agent (water soluble). Also used as an aid for surface curing of resins and gelcoat by sealing it from oxygen. 16 oz. bottle.</p>	Part No: 270-0145-101

	<p>Vinylester Resin – 411-45</p> <p>This resin is NOT promoted and does NOT include promoters or MEKP catalyst. Thus, at the time or ordering, please specify if chemicals are needed. (See below). Estimated 6 month shelf life. (1 gallon minimum order).</p> <p>NOTE: Hazardous material shipping charges apply for international orders. Domestic orders for this product can only ship ground, but have no hazardous material shipping charges. Call for more information!</p>	<p>Part No: 270-0155-301</p>
	<p>Vinylester Fire Retardant Resin – 510C350 (1 quart)</p> <p>Will not support a flame once the ignition source has been removed. Specified for Glasair III induction system fabrication.</p> <p>This resin is NOT promoted and does NOT include promoters or MEKP catalyst. Thus, at the time or ordering, please specify if chemicals are needed. (See below). Use same catalyst (MEKP) as standard 411-45 vinylester resin. Estimated 1 to 2 month shelf life. (1 quart minimum order).</p> <p>NOTE: Hazardous material shipping charges apply for international orders. Domestic orders for this product can only ship ground, but have no hazardous material shipping charges. Call for more information!</p>	<p>Part No: 270-0155-108</p>
	<p>Gelcoat (1 quart)</p> <p>Ferro white polyester gelcoat. Used to finish the seam areas on the Glasair and Glastar airframe. Thin with acetone for spraying and catalyze with MEKP. (32 oz. minimum order). Estimated 3 month shelf life.</p> <p>NOTE: Hazardous material shipping charges apply for international orders. Domestic orders for this product can only ship ground, but have no hazardous material shipping charges. Call for more information!</p>	<p>Part No: 270-0129-103</p>
	<p>Cobalt Promoter (1 oz. Boxed UPS)</p> <p>NOTE: Hazardous material shipping charges apply for international orders. Domestic orders for this product can only ship ground, but have no hazardous material shipping charges. Call for more information!</p>	<p>Part No. 270-0135-101</p>
	<p>DMA Accelerator (1 oz. Boxed UPS)</p> <p>NOTE: Hazardous material shipping charges apply for international orders. Domestic orders for this product can only ship ground, but have no hazardous material shipping charges. Call for more information!</p>	<p>Part No. 270-0135-201</p>
	<p>MEKP Catalyst (4 oz. Boxed UPS)</p> <p>NOTE: Hazardous material shipping charges apply for international orders. Domestic orders for this product can only ship ground, but have no hazardous material shipping charges. Call for more information!</p>	<p>Part No. 270-0105-101</p>
	<p>Empty Caulking Tubes</p> <p>These empty caulking tubes are a great time saver and can significantly reduce the preparation and construction time of certain jobs (such as closing the wing). They come in real handy when dispensing Milled Fibers, Q-Cells and Cabosil mixtures.</p>	<p>Part No: 270-0103-001</p>

	<p>Resin Mixing Sticks</p> <p>¾" x 6" wooden sticks. Use for mixing resin, shimmying, etc. The uses are limited only by your imagination. Box of 500.</p>	<p>Part No: 270-0180-101</p>
	<p>Surgical Gloves</p> <p>Tight fitting latex gloves for hand protection from the chemicals (resin, catalyst, acetone, etc.) used in composite construction. Box of 100 gloves (fit either hand). One size fits all.</p>	<p>Part No: 270-0230-001</p>
	<p>Resin Brushes</p> <p>Laminator's bristle brushes, with wooden handle. This is the number 1 tool for constructing a fiberglass airplane. Don't run short!</p>	
	<p>Resin Brushes – 1" Size</p>	<p>Part No: 270-0185-001</p>
	<p>Resin Brushes – 2" Size</p>	<p>Part No: 270-0185-002</p>
	<p>Box of 36, 1" Size</p>	<p>Part No: 270-0185-101</p>
	<p>Box of 24, 2" Size</p>	<p>Part No: 270-0185-102</p>
	<p>Resin Mini-Pump</p> <p>The Resin Mini Pump screws directly onto a gallon container (just like the one supplied by Glasair Aviation, LLC for one gallon resin shipments) and gives out about 35 grams of resin per pump. They come in a set of two so you can either keep one as a spare or use it for acetone.</p>	<p>Part No: 270-0172-101</p>
	<p>Syringe (5 pack)</p> <p>5.0 ml. all plastic syringe. Molded polypropylene piston will not dissolve in MEKP as most rubbers will. Calibrated in 0.1 ml. increments. Accurately measures catalyst; helps prevent skin contact with catalyst. Needles not included and not needed for measuring catalyst.</p>	<p>Part No: 270-0190-001</p>
	<p>Squeeze Bottle (Mekp Dispenser)</p> <p>This handy squeeze bottle dispenses MEKP catalyst by the drop for small resin batches. Supplied with a chart calibrated in the number of drops required for different sized resin batches catalyzed at different rates. This is a very easy and accurate method of dispensing catalyst and avoids the dangers of skin contact and accidental eye contamination. (See "Glasair News" #16 for a further description).</p>	
	<p>Mold Release Wax</p> <p>Use for fabricating procured laminates on an aluminum sheet or for any application where parts are formed using a mold and then separated after curing. 14 oz. can.</p>	<p>Part No: 270-0205-001</p>
	<p>Ultralite Body Filler</p> <p>1 qt.</p>	<p>Part No.: 270-0200-001</p>
	<p>Ultralite Body Filler</p> <p>1 gal.</p>	<p>Part No.: 270-0200-002</p>

	<p>Vinyl Masking Tape</p> <p>½" wide vinyl tape which we have found works ideally for masking trim stripe details when painting. Forms beautiful inside and outside tight radius curves without dimpling. Does not allow paint-bleed through on the edges as do most masking tapes. Pulls easily without damaging paint underneath. You'll love working with this tape</p>	
	Masking Tape – ½" Roll	Part No: 270-0195-002
	Masking Tape – ½" Roll (Doz.)	Part No: 270-0195-102
	Masking Tape – ¾" Roll	Part No: 270-0195-001
	Masking Tape – ¾" Roll (Doz.)	Part No: 270-0195-101
	<p>Rotary Cloth Cutter</p> <p>This "pizza wheel" style cloth cutter cuts neatly and cleanly on a wooden or plastic-surfaced bench or table. Works great for making curved cuts in fiberglass cloth. Reduces fraying and helps prevent stretching of the cloth. The blade is made of sharp tungsten steel, and one extra blade is included with the cutter kit.</p>	
	Rotary cloth cutter	Part No.: 810-0215-501
	Replacement blade for rotary cutter	Part No.: 810-0215-001
	<p>CherryMax Flush-Head Blind Rivets</p> <p>Let's be frank: there are a handful of holes along the forward wing spar in the area of the strut beam that are a bear to rivet with standard, driven rivets. Although it is possible to buck all these rivets, many builders have inquired about the possibility of using blind rivets in these locations. That's perfectly fine, as long as the rivets are equally as strong as regular AN426AD4's, and only CherryMax rivets meet that criterion, These CR3212-4-8 rivets are just the right size for riveting the skins to the forward spar.</p>	Part No: CR3212-4-8
	<p>Torque Seal</p> <p>This colorful paste is primarily an inspection aid device. The seal paste is placed between two objects (example, the nut on a bolt) that we want to make sure are not moving relative to each other. If the seal is broken, movement has taken place and further action should be taken. Also great for indicating completion or final torque.</p> <p>The set includes five colors (pink, green, blue, yellow and orange). Use one color for gear up hydraulics, one for gear down and so on.</p>	Part No: 620-0642-501
	<p>Wing StrutT Attach Drill, Reamer & Fixture Set</p> <p>This set consists of special drill bits and reamers, as well as a custom drill jig necessary for precise drilling of the attach holes at the upper end of the wing struts.</p> <p>Wing strut attach drill reamer & fixture set</p>	Part No.: 981-03000-01

Safety Equipment

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FireFly3 Strobe Light

Features:

Manually activated rescue strobe
360° high intensity Xenon strobe visible for up to 2 miles
Large sliding switch allows for easy operation by gloved hands
Newly-designed base platform allows unit to stand upright easily
Conceived as state-of-the-art replacement for famous Firefly forerunners, 4F and 4G
Designed as "electronic flare" to replace day/night pyrotechnic signal in aviation life rafts
Stainless steel retainer securely attaches removable battery door to case
Integral strapping slots provide a secure anchor point Ideal for life vests, safety harnesses, backpacks and flight suits.

Common Specifications for FireFly3®

Size: 4.75 x 2.2 x 1.2 in (12.1 x 5.6 x 3.0 cm)
Weight: 3.8 oz (105 g) with Lithium batteries
Material: Polycarbonate
Waterproof: Factory tested to 10 m (33 ft)
Beam Angle: Omni-directional 360°
Visibility: Visible up to 2 mi (5 km)
Flash Rate: 60 ± 10 flashes per minute
Lamp: High intensity Xenon strobe
Battery Type: 2 "AA" alkaline or 1.5V lithium (5 year replacement life) not included
Certification: USCG 161.012/58/0 (alkaline or lithium)
USCG SOLAS 161.112/58/0; MO LSA Code Res. MSC.81(70);
FAA (TSO-C85) approved (with lithium dated batteries only)
Limited Warranty: 1 year
Operational Life: Minimum 8 hours continuous @ -1°C meets USCG and IMO (SOLAS) specifications.

FireFly3 Strobe Light

ACR Part No: 3995.3

FireFly3 Strobe Light

ACR Part No: 3995.3

ACR Aerofix 406 PLB w/GPS

Description: The most advanced Personal Locator Beacon on the market, the AeroFix 406 GPS I/O PLB includes an internal GPS, exclusive FastACQ™ GPS relay technology and an external GPS optical interface, giving you, the user, unparalleled versatility.

Features Internal GPS acquires your coordinates when the unit is activated and transmits your exact location to within 110 yards to local rescue agencies
ACR Electronic's FastACQ™ technology relays accurate GPS information to the satellites faster than all other internal GPS PLB's
PLB technology transmits signals that are monitored by NOAA (National Oceanic and Atmospheric Administration) and AFRCC (Air Force Rescue Coordination Center)
Each unit contains and transmits a 15-digit Unique Identifying Number (UIN) which is picked up by satellites and provides rescuers with your name, address and other pertinent information
Transmits two signals: 406 MHz via COSPAS-SARSAT satellite system and on 121.5 MHz (SAR homing frequency)
The 406 MHz signal allows rescuers to locate your position within a 2 mile radius, while the 121.5 MHz signal allows rescuers to home in to pinpoint your position
External GPS optical interface (NMEA 0183) allows you to download your GPS coordinates from your hand-held GPS unit into your PLB
When activated, your GPS coordinates will be automatically included in your emergency transmission to satellites – saving valuable time for your distress message to reach local rescue centers
The flat, stainless steel antenna wraps compactly around bottom case for easy stowage and is easily positioned when needed
Functional test switch for battery power and 406 MHz transmission
The unit floats to avoid loss if dropped in water and is waterproof to 3.3 feet
Removable holster provides functionality, style and protection for your PLB

Specifications

Weight: 12 ounces
Dimensions: 1.74 x 5.71 x 3.03 inches
Material: Glass reinforced polycarbonate blend
Deployment: Manual
Frequency: 406.038 MHz, 121.5 MHz
Battery type: Lithium
Radiating Power: 5 watts ± 2dB (406.025 MHz) 50 mW ± 3dB (121.5 MHz)
Operational Life: In excess of 24 hours @ -40°C (-40°F), longer in higher ambient temperature Made in USA



ACR Aerofix 406 PLB w/GPS

ACR Part No: 2799.4

Part No: 014-02231-01

HotShot Signal Mirror w/Whistle

ACR Part #: 1700
Our Part #: 014-02233-01
Customer Price: call for price

Sighted signaling mirror with float and whistle
Designed to provide optimum sighting "spot" with holographic red dot viewing window
When target image, mirror and sun are in proper alignment, red dot on target ensures mirror reflection is on target
Telescope quality second surface reflective mirror is bright, provides focused image
Buoyant float for easy recovery if dropped overboard
Patented whistle (meets USCG) for audible alerting in low visibility conditions
Lanyard for securing to person or life-raft
Simple, total safety signaling package

Size: 4.25 x 2.75 x .19 in. (10.8 x 7.0 W x .5 cm)

Weight: 1.8 oz (51 g)

HotShot Signal Mirror w/Whistle





ACR Part No: 1700

Part No: 014-02233-01



Miscellaneous

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	<p>Towbars</p> <p>Handle your Glasair on the ground as easily as it handles in the air with our custom towbar! Made of strong but lightweight aluminum tubing and anodized bright red for high visibility, the tow bar can easily be carried in the baggage compartment and is easy to engage and disengage with a sliding nylon sleeve to lock in place.</p>	
<p>MISSING PHOTO</p>	<p>RG Towbar</p>	<p>Part No: 471-0644-301</p>
<p>MISSING PHOTO</p>	<p>FT Towbar</p>	<p>Part No: 471-0645-101</p>
<p>MISSING PHOTO</p>	<p>"Experimental" decal 2-1/4" x 18", black on white</p>	<p>Part No: 620-0215-009</p>
<p>MISSING PHOTO</p>	<p>Passenger Warning placard 1" x 3-7/8", black on white, FAA required wording</p>	<p>Part No: 620-0215-010</p>
<p>MISSING PHOTO</p>	<p>Sportsman Decal (White)</p>	<p>Part No: 621-0225-005</p>
<p>MISSING PHOTO</p>	<p>Sportsman Decal (Black)</p>	<p>Part No: 621-0225-006</p>
<p>MISSING PHOTO</p>	<p>GlaStar Decal (White)</p>	<p>Part No: 621-0225-003</p>
<p>MISSING PHOTO</p>	<p>GlaStar Decal (Black)</p>	<p>Part No: 621-0225-004</p>
<p>MISSING PHOTO</p>	<p>Jack Stand Kit</p> <p>This custom jack stand kit comes with two sturdy, tripod style jack stands and two fiberglass jack pads custom-molded to fit the Glasair wing. Jack pads bolt into the tie-down holes and support the wing under the spar. Easy to use screw-jack style jack stands come with long crank handles so you don't have to be under the wing while jacking. Jack stands' height adjusts from 23" to 38". Capacity: 1 ton per jack. Exclusive fold-up feature for easy storage. Indispensable for RG builders to check the gear retraction cycle and the gear door fit, as well as for periodic maintenance and inspections. (A retraction test should be performed at least at every annual condition inspection).</p>	<p>Part No: 381-0362-501</p>
	<p>Glasair - Decals</p> <p>3" x 18" Black Glasair logo on clear backing. Pressure sensitive adhesive. For use as an attractive identifying logo on your Glasair in conjunction with your paint scheme.</p>	<p>Part No: 621-0225-001</p>
	<p>3" x 18" black Glasair logo on white backing. Pressure sensitive adhesive for use as a bumper sticker.</p>	<p>Part No: 621-0225-002</p>
	<p>"100LL Only" fuel filler decal 1-7/8" x 3-7/8", silver and black</p>	<p>Part No: 620-0215-004</p>
<p>End of Document</p>		