

SERVICE BULLETIN 20

SUBJECT: Electrical system; 28v option.

APPLICATION: All Glasair III aircraft

Description: Stoddard Hamilton has received significant interest among the Glasair III owners concerning the possibility of a 28v electrical system. After researching the system we have found it feasible to offer a 28v option. The advantages are listed below:

- 1) Amperage requirement for the gear electrical system, avionics and all of the other electrical components is HALF the amperage required for a 12v system.
- 2) Wire sizes can be smaller; saving in space and weight.
- 3) The allowed amount of voltage drop for the wires is twice as much as the 12v system.
- 4) Smaller circuit breakers can be used; saving in panel space (depending on type used).
- 5) The Alternator is working half as hard, which in turn increases alternator life and reduces the work load of the engine.
- 6) Used Lycoming 540's are common with 28v engine electrical systems.

DISCUSSION: All standard Glasair III kits will continue to be sold with a 12v fuel and a 12v gear electrical system. A 28v electrical system will be available as an option for \$288.00.

For Glasair III complete kits delivered prior to this service bulletin, the price of \$288.00 for the 28v option is contingent upon the return of the corresponding 12v components.

Builders who wish to purchase the 28v option must return the electrical system components listed below in acceptable condition prior to April 30 1987. (Some of these items may show up as backordered on your parts list and therefore will be credited)

Glasair III system 4 purchasers may purchase the 28v option for \$288.00 at the time they purchase kit #4 (Final assy.) in which the electrical system components are included. If not, the standard 12v system components will be shipped.

NOTE: No returns will be accepted after April 30 1987. No exceptions! All prices subject to change without notice.

RETURN LIST

<u>QTY</u>	<u>UNIT</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
1	EA	634562	HYDRAULIC PUMP III
1	EA	C8100E	FUEL PUMP ELECTRIC
1	EA	210-200-25	CIRCUIT BREAKER 25 AMP
1	EA	210-200-05	CIRCUIT BREAKER 5 AMP

**STODDARD-HAMILTON**
AIRCRAFT, INCORPORATED

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1	EA	210-10472-01	PC BOARD
6	EA	GE73	LAMP TI 3/4
4	EA	M200	SOLENIOD
1	EA	210-677-01	WARNING BUZZER

AVAILABILITY: From the date of this service bulletin 28v option kits will be available approximately in March, except for the hydraulic pump which will be available in 7 months.

GLASAIR CATALOG OPTIONS AFFECTED: If you plan to purchase any of the options listed below from Stoddard Hamilton, contact us for details of availability for 28v system components.

- 1) NAV./STROBE KIT
- 2) ANTICOLLISION KIT
- 3) NAVIGATION LAMP KIT
- 4) LANDING LIGHT KIT
- 5) ELECTRICAL KIT
- 6) AUTOPILOT KIT (D.G. UNIT ONLY)

NOTE: When ordering options be sure to specify 28 volt.

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