

SERVICE BULLETIN 13

SUBJECT: RG PRINTED CIRCUIT BOARDS

APPLICATION: Printed circuit boards shipped between 2/8/85 and 5/30/86.

DESCRIPTION: Most of the PC boards shipped during this period have seven (7) extra diodes, inadvertently installed by the manufacturer in the two areas marked "Option #1," that modify the operation of the Glasair RG electrical system. With the optional diodes installed, the transit microswitches function to switch the hydraulic pump on and off as well as to control the gear indicator lights. We provided for the installation of the optional diodes to allow the flexibility to convert to an uplock system. With the optional diodes not installed, the pressure switch provides the only control to shut off the hydraulic pump when the gear is retracted, which is how the present system was intended to operate.

The only difficulty with using the optional diodes with the present retractable gear system is that the transit microswitches have to be adjusted very precisely for proper operation of the gear. If one of the microswitches remains closed when the gear is completely retracted, power will be applied continuously to the hydraulic pump, with resulting damage to the pump or pump solenoids.

SOLUTION: Unsolder the seven (7) diodes that are installed in the two areas outlined in white and marked, "Option #1." One area, containing six diodes, is near the upper right hand corner of the board; the other area, containing a single diode, is to the left of the upper relay, near the center of the board. To unsolder the diodes, use a pair of needle nose pliers to exert a pull on the diode's lead on the upper side of the board while applying a hot soldering iron to the soldered lead on the back side of the board. Use a low wattage (app. 30 W.) pencil type soldering iron to avoid damaging the PC board traces. We recommend using desoldering braid or a desoldering tool to remove excess solder from the diode leads to avoid the possibility of creating solder bridges between the PC board traces.

Alternatively, if you do not want to save the diodes for possible future use, or the backside of the board is not easily accessible for desoldering, simply use a small pair of diagonal cutters to cut the diodes off the board. Cut both leads of each diode and remove the diode completely to prevent accidental contact.

**STODDARD-HAMILTON**
AIRCRAFT, INCORPORATED

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