

AMERICAN GENERAL AIRCRAFT SERVICE BULLETIN No.176

DATE: APRIL 5,1991

SUBJECT: ALTERNATOR LIGHT CIRCUIT MODIFICATION

SERIALS AFFECTED: 99998, 10000 THROUGH 10033

TIME OF COMPLIANCE: IMMEDIATE

General

Evidence has been found of possible electrical component failure in two areas of the alternator light circuit of the American General Aircraft AG-5B. Operation of the aircraft should be avoided until these matters are corrected.

Parts Required

none

Modification

- I. Relay energizer wire (location: engine mount, right side)
Serials: 99998, 10000 through 10020

Relay energizer wire must not be enclosed in power diode heat shrink to prevent possible insulation damage to relay energizer wire by diode heat and chafing. Inspect routing and replace heat shrink as required.

- (1) Locate 18 AWG relay wire attached to power diode, leading from alternator, Figure 1.
- (2) If routed through heat shrink tubing wrapped around diode: (a) remove heat shrink tubing (b) inspect wire for insulation damage and if damage is present, incase wire in 1/8" heat shrink tubing.
- (c) replace heat shrink tubing with 18 AWG wire routed outside of heat shrink tubing.

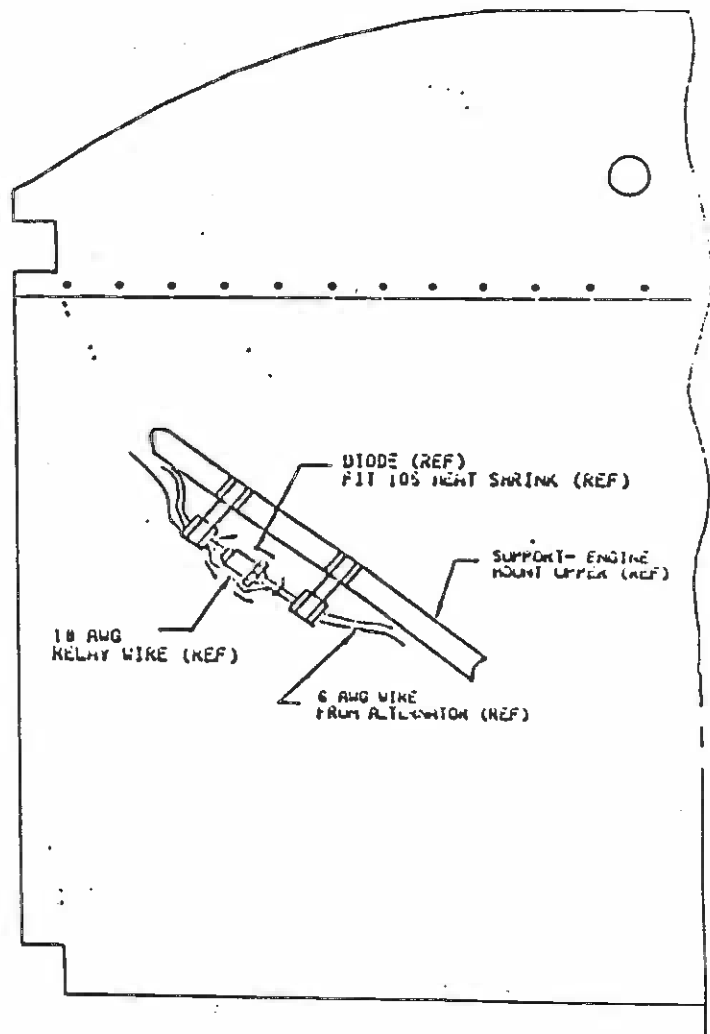
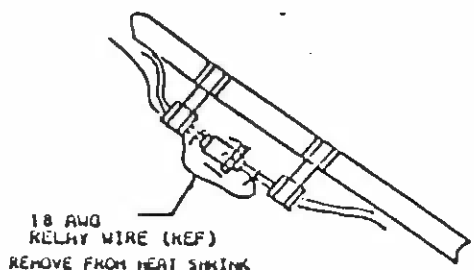


Figure 1. Relay energizer wire routing.

II. Relay transient protection diode (location: left side fuselage, below instrument deck)
Serials: 99998, 10000 through 10033

The diode is not required and presents a possible short to ground between the relay terminals.

- (1) Locate relay in harness bundle, between stall warning horn and avionics cooling fan, Figure 2.
- (2) Clip out and discard diode from terminals of relay.

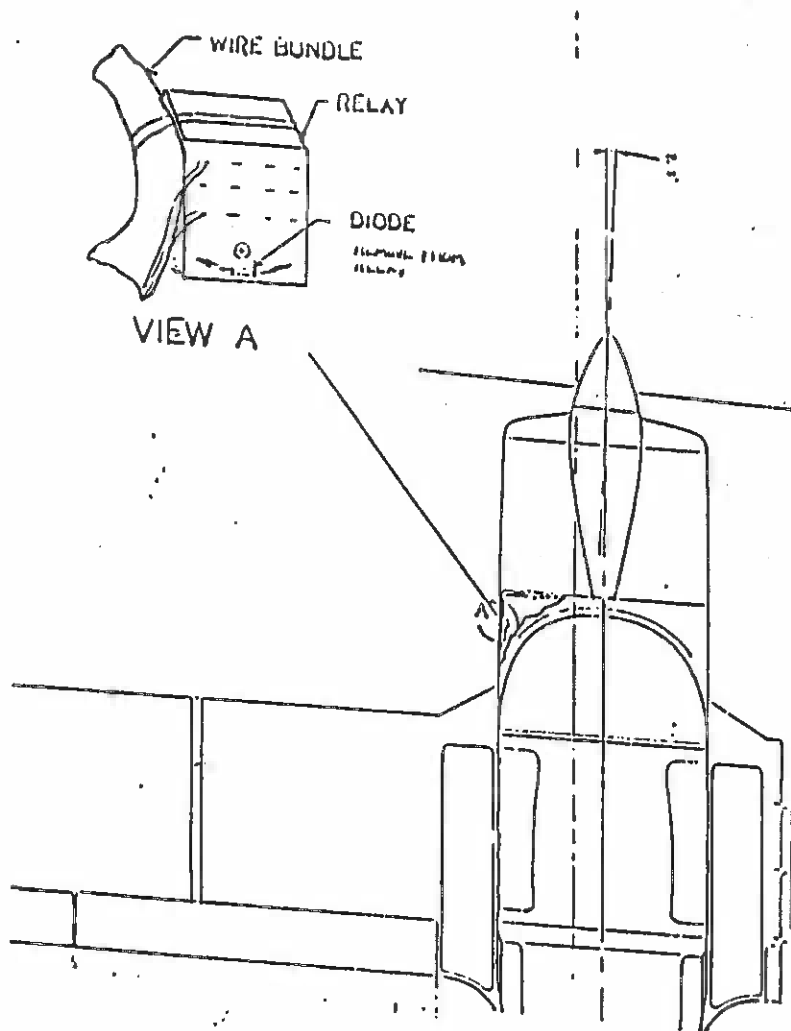


Figure 2. Relay transient protection diode.

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A labor allowance of 1 manhour at the Dealer's prevailing shop rate will be credited for the modification of the alternator light circuit.

III. Record compliance in the aircraft logbook.

IV. Please fill in the attached compliance card and return it to:

American General Aircraft Corp.
P.O. Box 5757
Greenville, MS 38703