



OPERATION BULLETIN

#

M337/38

Necessary execution

Page 1 of 4

Scope: Silicon diode fitting in the aircraft L200 equipped with the M337 engine and Scintilla 600W power unit. The diodes must not be used for PAL Magnetron power unit!

Justification: Prevent the Scintilla regulating relay contact from burning and sticking.

Provisions: Use VK25 type B silicon diode working for a non-return valve and fit it to the nacelle right side cover sheets in both the engines under the regulating relay to achieve the requested cooling.

Provisions due date: As soon as the first inspection comes after the material is supplied.

Responsible for carrying out: User

Cost: not applicable – labour paid by the user

Material: supplied by the engine producer, free for the engines supplied since 1-1-1962, on order placed by the used for the other.

List of material and work flow mentioned in pages 1 – 2 ... that are integral parts of this bulletin.

Validity: as of 8 Oct 1963

Ing. Tubl v.r.
VZLU

Svoboda, v.r. ing Smrcek v.r.
aircraft producer

ing Safarik v.r.
customer's representative

Franc v.r.
producer

ing Borovansky v.r.
customer's representative

Langova
Omnipol

v.r.

Approved by the National Aerospace Administration (aerospace agency) under ref.no. as of 8 Oct 1963

Ing Scharks v.r.

Assembly and connection procedure of the silicon diode.

1. Remove the relay and connect the inverse current coil with the wire of the same cross-section as the wire making the connection showed in Fig. 1.
2. Attach the diode to the base plate with the screw marked (+) and lock with a locknut (max. torque 0.3 kgm).
3. Attach the base plate with the diode with 3 screws M5 to the side cover sheet. Thoroughly clean the place intended for attaching the base plate so that metal gets contact.
4. Cut and remove the wire marked 27DL (27DP) connecting the reg. 27 terminal and the filter.
5. Connect the other pole of the diode marked (-) to the reg 27 terminal with the screened cable of 4 sq mm cross-section and approx. 0.5 m length.
6. Disconnect the wire from the regul. terminal marked 5 and connect to terminal 27.
7. Reattach the regulator back to the console.
8. Disconnect one end of the wire marked SP19 (SL19) from the indicator lamp an the other end from the terminal box. Insulate both ends or remove the wire.
9. Earth the lamp with a new wire of 0.75 sq mm cross-section.
10. The transfer resistance between the interference filter earth point and the silicone diode contact point should not exceed 600 microohm.(for good DC generator function); should big resistance interfere, it is necessary to connect the earthed diode terminal (+ mark) to the filter minus terminal with a screened wire BPVLE 2.5 sq mm.

Wiring is obviously shown in the attached diagram in Fig. 2.

Remark: When the silicone diode is used and wired as shown, the indication lamp should light on to indicate still DC generator once the generator circuit breaker and battery are switched on and turns off when the engine starts and the generator – battery voltage equals.

Necessary material list for 1 set (1 engine)

- | | |
|---|----------|
| 1. silicone diode VK25, type B-So 0926 | 1 piece |
| 2. base plate – So 9130 | 1 piece |
| 3. Nut M6 CSN 02 1402.22 | 2 pieces |
| 5. Fastening screw M5x18 CSN 02 1148 | 3 pieces |
| 5. Nut M5 CSN 02 1401.44 | 3 pieces |
| 6. Washer, thin, JL5 – 0177841 | 3 pieces |
| 7. Spring washer 5,1 CSN 02 1740.02 | 3 pieces |
| 8. Earth cable, 0.5m long as in LDN6611.3 | 1 piece |

- | | |
|---|---------|
| 9. Eyelet diam. 6 – So 5485 | 1 piece |
| 10. Screened cable SULF or BPVLE diam. 2.5 mm (F = 4 sq mm), 0.5 m long | 1 piece |
| 11. Lamp earth cable SUL or BPVL (F = 0.74 sq mm), ca 0.5 m long | 1 piece |
| 12. Spring washer 6,1 CSN 02 1740.02 | 1 piece |

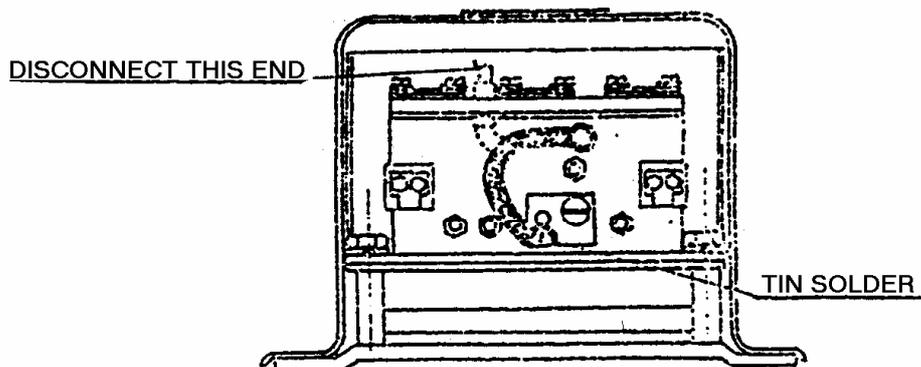


Fig. 1

VZLU – ponechat – je to Výzkumný zkušební letecký ústav

- Cut and remove the wire marked 27DL (**27DP**) connecting the reg. 27 terminal and the filter.

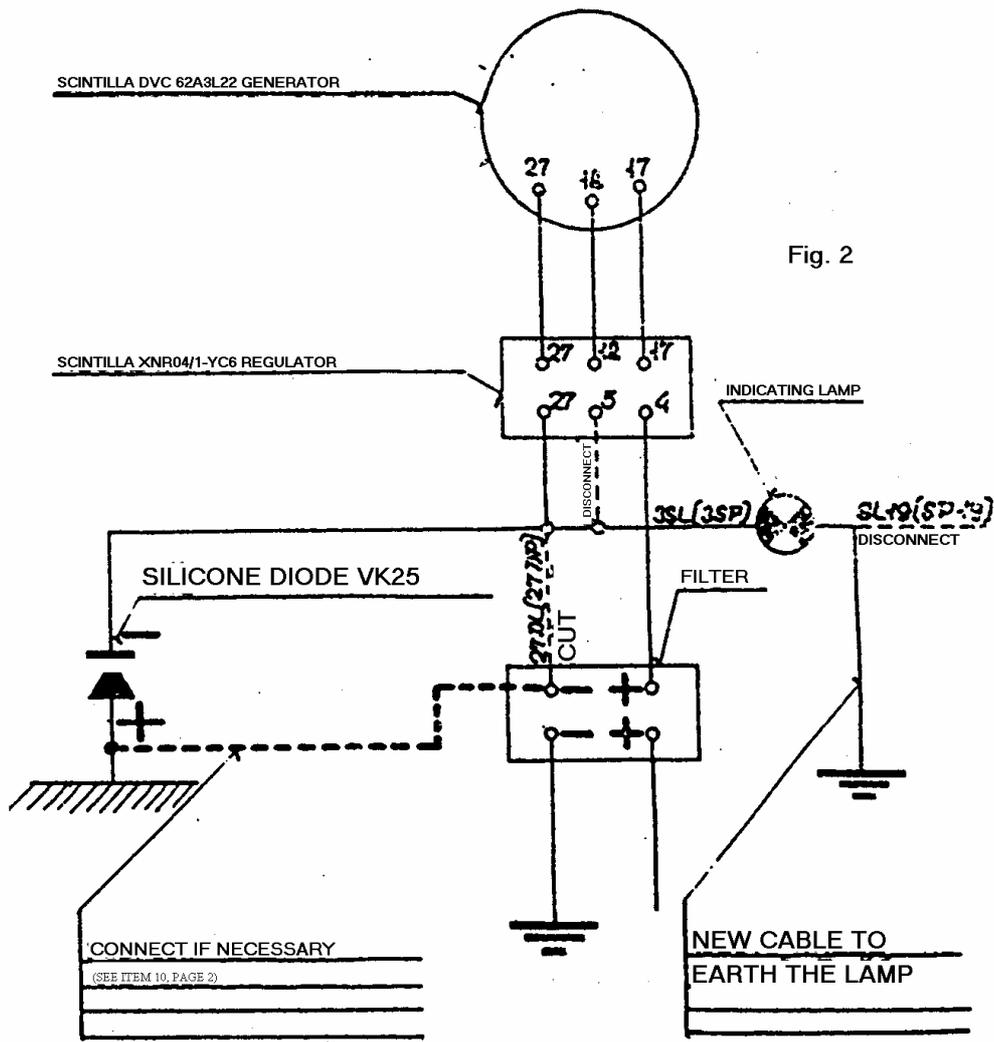


Fig. 2