

Chapter 53

WING TIP NAVIGATION LAMP, THORN, TYPE WNL 32

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LEADING PARTICULARS

| | |
|--|----------------------------|
| Wing tip navigation lamp, Type WNL 32 (port) | Ref. No. 5CX/5366 |
| Wing tip navigation lamp, Type WNL 32 (starboard) | Ref. No. 5CX/5367 |
| <i>Lamp, filament, 28V, 18W</i> | <i>Ref. No. 5L/9953283</i> |

Introduction

1. These navigation lamps are designed to indicate the presence, position and, as far as possible, the course the aircraft is flying at night. The port and starboard lamps are identical in construction, differing only in the colour of the lamp glass. They are designed to give unobstructed light distribution of 180° in the vertical plane, and 110° in azimuth. These angles are measured from the forward plane of flight.

DESCRIPTION

2. An external view of the lamp is shown in Fig. 1, and a view with the cover removed is shown in Fig. 2. The latter figure shows the main parts of the lamp. The S.C.C. lampholder

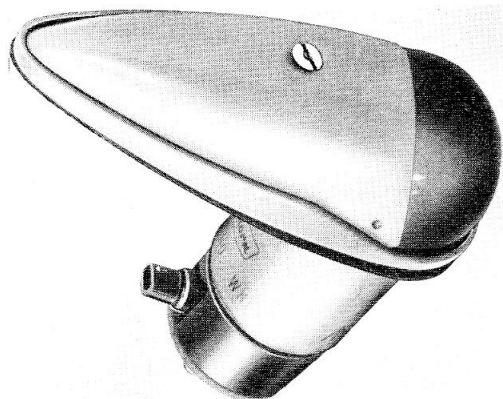


Fig. 1. Wing tip navigation lamp,
Type WNL/32

and terminal block, form an integral part of the lampholder, both parts being sealed into the metal body.

3. The red or green heat resisting glass domes are held in place against a rubber sealing ring, by a pressed aluminium cover, secured by a 4 B.A. countersunk captive screw which engages with a 4 B.A. clinch nut carried on a bracket attached to the mounting flange.

4. The terminal block has two terminal connectors for the supply cables. These terminals screw into brass bridges which connect to the lampholder through the moulded base, one terminating at the spring-loaded centre contact, and the other terminating at a brass strip forming the side contact of the lamp filament.

INSTALLATION

5. The lamp is secured to the wing by three 4 B.A. fixing screws. The holes for these screws are located on the mounting flange of the lamp. The lamp fits into a hole $1\frac{3}{8}$ in. clearance to a depth of $2\frac{3}{16}$ in. in the wing tip section. A mounting gasket is provided between lamp flange and skin to ensure a weatherproof joint.

SERVICING

6. Check the lamp by a functional test. Remove cover and clean glass renewing the filament lamp if there is any sign of blackening. Renew the sealing ring under the lamp glass if it is perished or damaged.

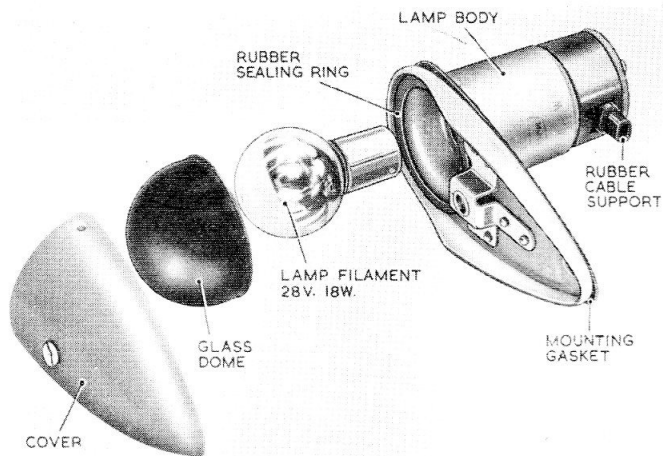


Fig. 2. Lamp with cover removed

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