Chapter 48

LAMPS, PARATROOP, SIGNAL

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LIST OF ILLUSTRATIONS

LEADING PARTICULARS

Lamp, paratroop, signal (green)	**Ref. No. 5CX/4091**
Lamp, paratroop, signal (red)	**Ref. No. 5CX/4092**
Glass, green, frosted	*Ref. No. 5CX/4093*
Glass, red, frosted with black cross	*Ref. No. 5CX/4094*
Screen cap	*Ref. No. 5CX/494*
Gasket	*Ref. No. 5CX/490*
Filament lamp, 24 volt, 20 watt	*Ref. No. 5L/9953219*

Introduction

1. For paratroops preparing to jump from an aircraft in flight, a means of signalling is essential, in order that they may drop in a pre-determined target area. The signalling is accomplished by means of two visual signal lamps, one being green, and the other red with a black cross painted on it. The latter lamp is a "standby" signal, and the former a "jump" signal.

DESCRIPTION

2. These lamps (fig. 1) are an adaption of the navigation lamp, Type A, described in Chap. 12. They are identical in construction the essential difference being that of the colour of the glass as mentioned in para. 1. In addition the glass in these lamps is frosted externally.

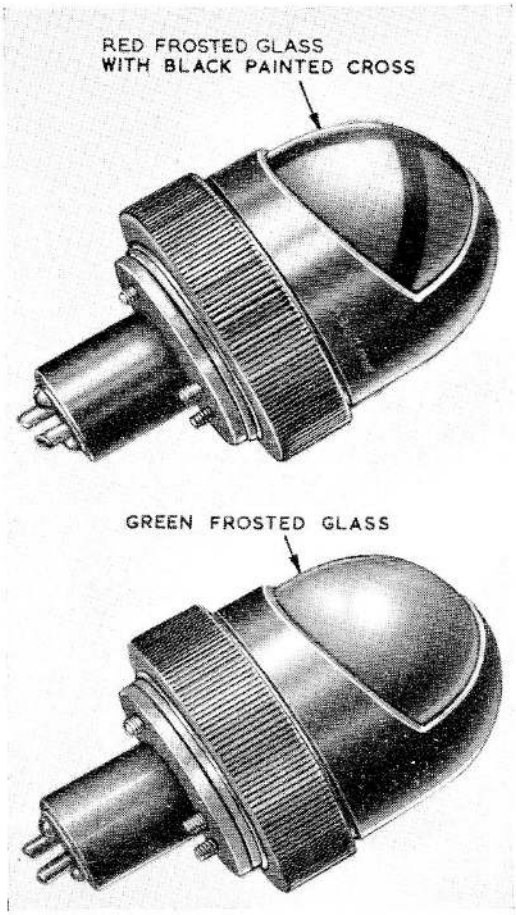

Fig. 1. Lamps, paratroop, signal

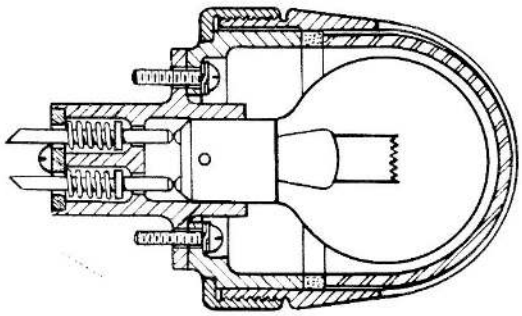

Fig. 2. Sectional drawing of lamp

3. Made mainly of moulded synthetic resin compound, they comprise a socket for the filament lamp, with spring-loaded plunger contacts, a cap support, a screen cap and a union for securing the screen cap. All these parts are moulded. A section drawing of this lamp is shown in fig. 2.

4. The glass is held in position by the screen cap, and a cork casket is fitted between the glass and the cap support to ensure a good joint. The spring-loaded plungers, which make contact with the filament lamp, pass through the socket and are hollow at the outer ends to receive the supply leads. The socket moulding and mask support are not fixed to each other, but are held in place by four mounting screws.

5. The glass is a complete dome, the outer surface being frosted, the red glass having a black cross painted on its surface,as shown in fig. 1. The glass is partially masked by the screen cap, which is cut away, allowing an aperture of 110 deg. to the vertical. A small hole opposite the screen aperture gives an indication if the lamp is alight.

SERVICING

6. Check the operation of the lamp by a functional test. Clean the glass inside and clean the bulb. If there is any sign of blackening, the lamp should be renewed in order to avoid failure during operational periods. Damaged or perished gaskets must be re-renewed. Cable ends should be examined for signs of fraying, and all connections must be free from corrosion.

Printed for H. M. Stationery Office by Allens Ltd., Cardiff. 3884 57907 10/62 1,625. Gp. 420