

## Chapter 24

### INSPECTION LAMP, Mk. 2

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#### LEADING PARTICULARS

|                                |     |                        |
|--------------------------------|-----|------------------------|
| <b>Inspection lamp, Mk. 2</b>  | ... | Stores Ref. 5CX/369    |
| Weight                         | ... | 8 oz.                  |
| Weight of case and extension   | ... | 3½ oz.                 |
| Length of lamp                 | ... | 9 in.                  |
| Filament lamp, 24-volt, 6-watt | ... | Stores Ref. 5L X952254 |
| Extension lead...              | ... | Stores Ref. 5CX/370    |

#### Introduction

1. The inspection lamp, Mk. 2 is an airborne light-weight hand lamp, fed from the aircraft supply. A flexible lead fitted with a 2-pole plug forms part of the lamp, and an additional length of cable terminating in a plug at one end and a socket at the other is available for use as an extension lead.

#### DESCRIPTION

2. A general view of the lamp and the extension lead is given in fig. 1. A small bayonet lampholder (*fig. 2*) is attached to a tube with a push-switch at the other end. The contact bridge of the switch, actuated by the push button, is mounted on an insulating block fitted into a spring-loaded sleeve.

3. The bridge connects two contacts fitted on insulation inside the tube. A pin located in the side of the plunger limits its movement, and, when the button is depressed, and turned, locks it in the ON position.

4. The tube, lampholder, switch and hook assembly is free to turn in the outer frame, which consists of two circular end plates joined by bars to form a cage. The plate at the lamp end has a flange with three bayonet slots, to which a mask (*fig. 1*) is fitted to shade the light from the operator and reflect it on the equipment under observation.

5. The cable enters between the bars of the outer frame and passes through a hole into the tube, one lead running direct, and the other via the switch, to the lampholder.

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(A.L. 62, Jan. 55)

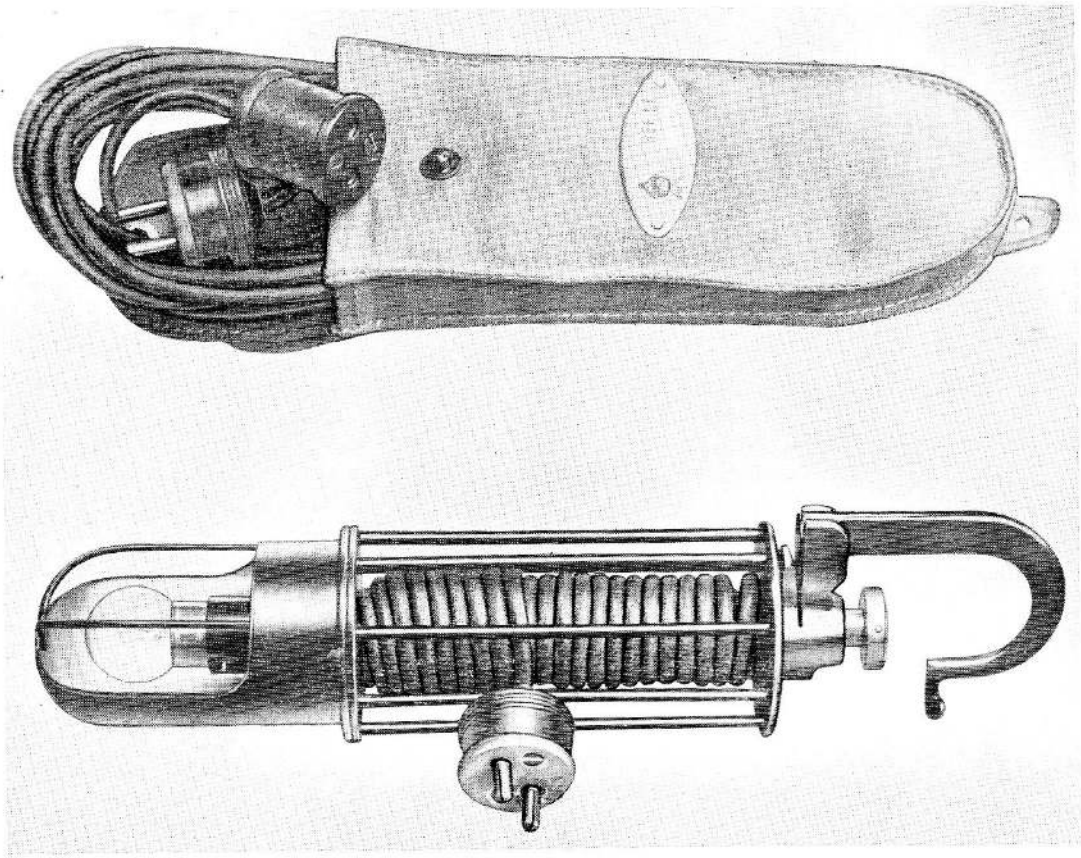


Fig. 1. Inspection lamp, Mk. 2, and extension leads

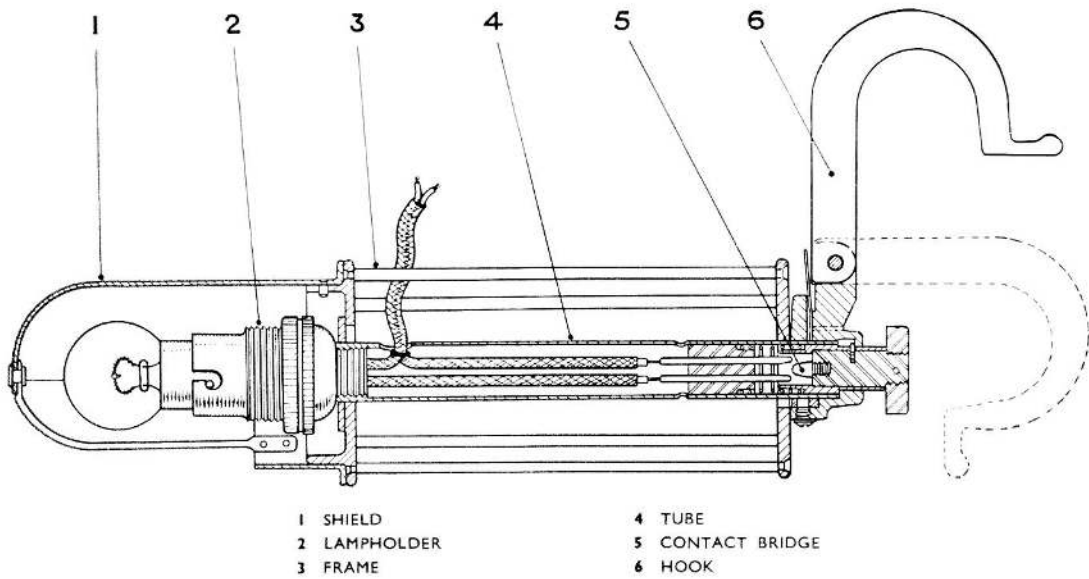


Fig. 2. Sectional view, inspection lamp, Mk. 2

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6. A 2-pin plug is connected to the 10 ft. length of cable. The hook (*fig. 2*) can be turned and used as a winding handle, and by this means the entire length of cable can be wound on to the tube.

7. A further 10-ft. length of cable similar to that connected to the lamp, with a 2-pole plug at one end and a socket at the other, is used as an extension lead. By connecting the socket on the extension to the plug on the lamp lead a total length of 20 ft. can be obtained.

8. The extension lead is supplied in a canvas case which can be closed by a snap fastener. Flaps fitted to the top and bottom of the pocket enable it to be fixed to the airframe.

#### OPERATION

9. An electrical supply for the lamp may be drawn from any suitable aircraft socket, the extension lead being used if the cable attached to the lamp is insufficient. When the lamp is used as an inspection lamp, the switch may be locked in the closed position by pressing the button and turning it. By using the switch as a spring-loaded push-button the lamp may also be used for signalling.

10. As soon as the lamp is disconnected, the cable should be rewound on the tube, using the hook turned at right-angles as a handle. After use, coil the extension leads and stow them in the canvas case.

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