

**Chapter 50****BULKHEAD LAMPS, THORN, TYPE 80/10/1032 and 80/10/0610****LIST OF CONTENTS**

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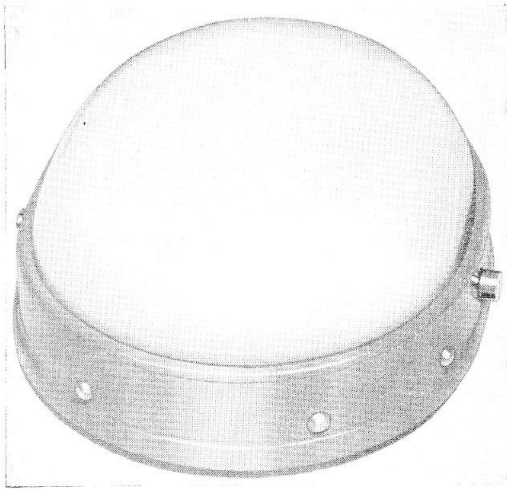
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**LEADING PARTICULARS**

|  |                          |
|--|--------------------------|
| <i>Bulkhead lamp, Thorn, Type 80/10/1032</i> ... ..      | <i>Ref. No. 5CX/5444</i> |
| <i>Bulkhead lamp, Thorn, Type 80/10/0610</i> ... ..      | <i>Ref. No. 5CX/5949</i> |
| <i>Rating</i>  |                          |
| <i>Type 80/10/1032 lamp, fitted with a maximum of 24</i> |                          |
| <i>watts</i> ... ..                                      | <i>Continuous</i>        |
| <i>Type 80/10/0610 lamp, fitted with a maximum of 19</i> |                          |
| <i>watts</i> ... ..                                      | <i>Continuous</i>        |

**RESTRICTED**



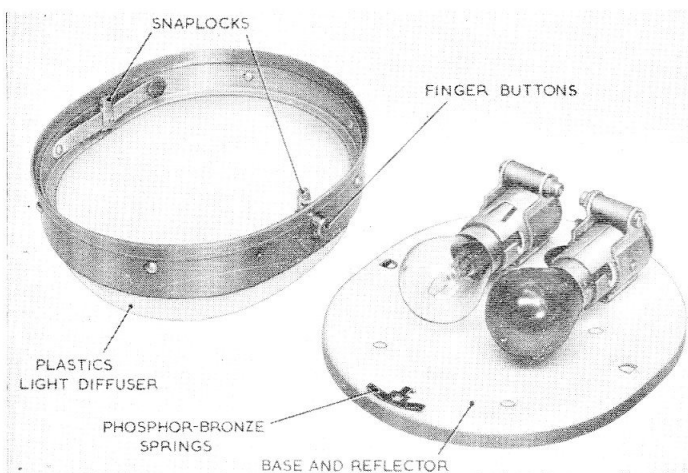
**Fig. 1. External view of a typical lamp**

### Introduction

1. The Thorn, Type 80/10/1032 and Type 80/10/0610 bulkhead, or flood, lamps are used for general illumination in aircraft cabins, freight holds, and passenger compartments. The Type 80/10/1032 lamp is a twin-filament version of the lamp suitable for use in red/white lighting systems, and is the lamp described and illustrated in this chapter. The Type 80/10/0610 lamp is a single-filament version of the lamp, identical in other respects to the twin-filament version.

### DESCRIPTION

2. The lamp consists of two parts: the base and the cover. The base, shown in Fig. 2, is a



**Fig. 2. Type 80/10/1032 lamp with cover removed**

light alloy stamping recessed towards one end to form a shallow bowl. This bowl forms the reflector. Two single centre contact lamp-holders are mounted horizontally on the base, and held in position by two clips riveted to the base. Each lampholder is positioned by a spring-loaded spigot contained in the lampholder, and clamped by a nut and bolt tightened against a collar between the faces of the clip.

3. A bushed hole in the base of the lamp between the lampholders provides access for the cable. The positive supply is connected to the screw terminals at the rear of the lampholders, and the negative return is connected to one of clamping screws. Four spaced holes in the outer edge of the reflector bowl are provided for fixing the base to its required position. Two phosphor bronze springs riveted at either end of the base keeps the cover under tension, and prevents it from vibrating when it is in position.

4. The cover consists of a light alloy rim containing a white plastic light diffuser, the light diffuser being held in position by a metal band riveted on the inside of the rim. Two snap locks, secured to the rim, locate in the two holes provided in the base and retain the cover in position.

5. Light is provided by two S.C.C. filament lamps, one clear and the other red. These lamps can be wired to a suitable switch for alternate switching if required. By applying pressure on the two finger buttons the cover can be removed, giving access to filament lamps and terminal connections.

### SERVICING

6. Servicing of these lamps will normally be confined to the renewal of the filament lamps, the cover, or complete units. For lamps in continuous use (passenger compartments, galley etc.) care must be taken to ensure that the maximum wattage of the filament lamps used does not exceed 24 watts for the Type 80/10/1032, and 19 watts for the Type 80/10/0610.

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