

## Chapter 38

## WARNING LAMPS, THORN MINIATURE TYPE

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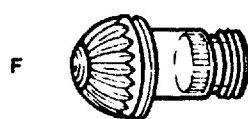
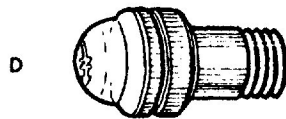
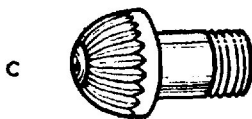
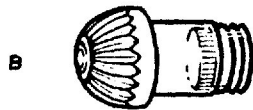
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**Introduction**

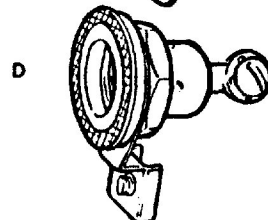
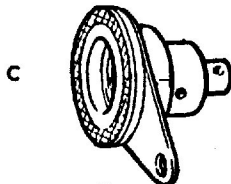
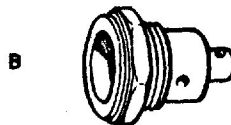
1. The Thorn range of miniature warning lamps, which are designed for use where little space is available on or behind the mounting panel, consist primarily of a lampholder and a filament carrier cap. The lampholders are identical to the Type A lampholders, details of which may be found in A.P.4343E, Vol. 1, Book 1, Sect. 7, with additional 2-pole lampholders provided by

the use of insulating washers between the body of the lampholders and the mounting panel. The full range of warning lamps is composed of the combination of the four lampholders and the various filament carrier caps, which are shown in fig. 1. The warning lamp assemblies are listed in Table 1, and the individual lampholders and filament carrier caps in Table 2.

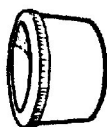
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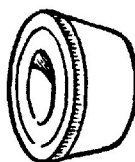
FILAMENT CARRIER CAPS



LAMPHOLDERS



SHROUD 80/10/0753



SHROUD 80/10/1386

Fig. 1. Lampholders and filament carrier caps

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## DESCRIPTION

Indicator and dimmer, filament carrier caps

2. The filament carrier caps screw into the lampholders and accommodate the filament lamp in a similar manner to those used in Plasteck illumination with the Type A lampholder, and are designed to give indication without panel illumination. The metal neck of the caps are provided in two lengths, the shorter version is for conventional panel mounted warning lamps and screws fully down on the lampholder. The longer version is for use in lampholders mounted on Plasteck covered panels, the additional length of the metal neck allowing for the thickness of the Plasteck panel above the lampholder. The indicator-type carrier caps are of glass or plastic construction, the dimmer-type carrier caps are of glass construction with a metal shutter-type, day/night dimmer screen. Mechanical stops incorporated in the dimmer screen restrict rotation of the screen at the DAY or NIGHT positions.

3. The special filament lamp is a push fit into the carrier cap and is retained by a circlip recessed inside the metal neck of the cap. Tough rubber shrouds are also provided and fit into a groove on the cap so that the sleeve of the shroud shields the cap from adjacent warning lamps or strong ambient light. A similar shroud for the glass caps which do not have a groove has a metal ring bonded to the shroud, which is then clamped between the rim of the cap and the lampholder.

## SERVICING

4. Servicing is confined to inspection or renewal of the filament lamp, the carrier cap, and the lampholder or complete assembly.

TABLE 1

## Warning Lamp Assemblies

| Thorn Part No. | Cap<br>(refer to fig. 1) | Lampholder |
|----------------|--------------------------|------------|
| <hr/>          |                          |            |
| 80/10/         |                          |            |
| 0317           | A                        | A          |
| 0314           | A                        | B          |
| 0368           | A                        | C          |
| 0366           | A                        | D          |
| 0103           | B                        | A          |
| 0102           | B                        | B          |
| 0365           | B                        | C          |
| 0363           | B                        | D          |
| 1458           | C                        | A          |
| 1456           | C                        | B          |
| 1886           | C                        | C          |
| 1888           | C                        | D          |
| 0318           | D                        | A          |
| 0316           | D                        | B          |
| 0369           | D                        | C          |
| 0367           | D                        | D          |
| 0071           | E                        | A          |
| 0070           | E                        | B          |
| 0364           | E                        | C          |
| 0362           | E                        | D          |
| 0782           | F                        | A          |
| 0791           | F                        | B          |
| 0793           | F                        | C          |
| 0784           | F                        | D          |
| 1457           | G                        | A          |
| 1455           | G                        | B          |
| 1885           | G                        | C          |
| 1887           | G                        | D          |
| 0781           | H                        | A          |
| 0790           | H                        | B          |
| 0792           | H                        | C          |
| 0783           | H                        | D          |

## Note...

The Thorn Part Numbers listed would normally have an additional suffix representing the colour of the indicator cap (i.e. 80/10/0071/Amber or 80/10/0071/Red) but for clarity these, and the A.M. Ref. No., have been omitted.

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TABLE 2

## Warning lamp components and accessories

| Thorn Part No.<br>80/10/                                                                                                                                                                                                              | Fig. 1 reference | Description                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------------------------------|
| <b>Filament carrier caps</b>                                                                                                                                                                                                          |                  |                                      |
| 0313                                                                                                                                                                                                                                  | A                | Short, glass dimmer, grooved         |
| 0101                                                                                                                                                                                                                                  | B                | Long, plastic indicator              |
| 1297                                                                                                                                                                                                                                  | C                | Long, glass indicator                |
| 0315                                                                                                                                                                                                                                  | D                | Long, glass dimmer                   |
| 0069                                                                                                                                                                                                                                  | E                | Short, plastic indicator             |
| 0785                                                                                                                                                                                                                                  | F                | Long, plastic indicator, grooved     |
| 1048                                                                                                                                                                                                                                  | G                | Short glass indicator                |
| 0576                                                                                                                                                                                                                                  | H                | Short, plastic indicator, grooved    |
| <b>Note...</b>                                                                                                                                                                                                                        |                  |                                      |
| <i>The Thorn Part Numbers listed would normally have an additional suffix representing the colour of the indicator cap (i.e. 80/10/0313/Amber or 80/10/0313/Red) but for clarity these, and the A.M. Ref. No., have been omitted.</i> |                  |                                      |
| <b>Lampholders</b>                                                                                                                                                                                                                    |                  |                                      |
| 0064                                                                                                                                                                                                                                  | A                | Screw terminal earthed               |
| 0063                                                                                                                                                                                                                                  | B                | Solder terminal earthed              |
| 2048                                                                                                                                                                                                                                  | C                | Solder terminal two pole             |
| 2049                                                                                                                                                                                                                                  | D                | Screw terminal two pole              |
| <b>Accessories</b>                                                                                                                                                                                                                    |                  |                                      |
| 0753                                                                                                                                                                                                                                  | —                | Rubber shroud                        |
| 1386                                                                                                                                                                                                                                  | —                | Rubber shroud with bonded metal ring |

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