

## Chapter 9

## WARNING LAMPS, ROTAX, H3200 SERIES

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## LEADING PARTICULARS

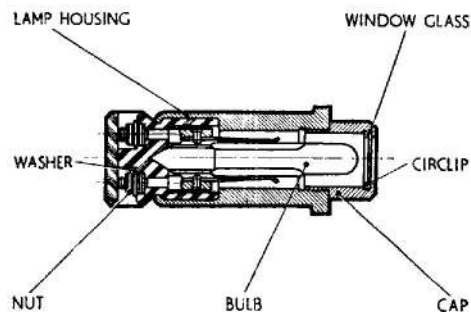
<i>Bulb voltage</i> ... ..	28 volts d.c.
<i>Bulb power</i> ... ..	2.4 watts
<i>Bulb type</i> ... ..	Jack-type filament lamp, P.O., No. 2 Inter services Ref. No. 5L/9959213 and 5L/9959215
<i>Overall dimensions—</i>	
<i>Length</i> ... ..	2.234 in.
<i>Diameter</i> ... ..	0.750 in. (Max.)
<i>Length of mounting flange</i> ... ..	1.125 in.
<i>Weight</i> ... ..	1 oz.

**Introduction**

1. The H3200 series lamps are for use as a warning device in aircraft 28 volt d.c. systems. They will give satisfactory operation in air temperatures between +70 deg. C. and -65 deg. C and at altitudes up to 60,000 ft.

**DESCRIPTION**

2. The unit (*fig. 1*) comprises an aluminium body, spun over a bakelite base at one end, and with a dural cap screwed into the opposite end. A beryllium copper contact strip is riveted to both terminals, the latter



**Fig. 1. Typical H3200 series warning lamp**

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being assembled to the base. Provision is made in the bakelite base for holding the bulb. The cap has a glass window, coloured or clear depending upon the Type number as follows:—

Type	Ref. No.	Colour
H3201		Red glass
H3202		Red glass (less terminal cover and fixing screws)
H3203		Green glass
H3204		Green glass (less terminal cover and fixing screws)
H3205		Amber glass
H3206		Clear glass
H3207		Blue glass

### INSTALLATION

3. The lamp is assembled to the mounting panel with two 6B.A. fixing screws (fig. 2). Two holes tapped 6B.A. through are provided

in the lamp mounting flange, their centres being 0.875 in.  $\pm$  .002 in. apart.

Electrical connections are made to two 6B.A. terminals fitted with associated securing washers and nuts. The terminal cover is secured by two 6B.A. fixing screws to the body moulding.

### SERVICING

4. Due to its robust construction and long serviceability factor, the lamps do not require a set period for servicing. Provided the electrical connections are secure, and the bulb is making good contact in the lamp, all that is necessary is to ensure that the mounting screws are tight; the unit can then be considered satisfactory for continued service.

### Insulation resistance test

5. Remove the bulb and check the insulation resistance between the terminals and the case, using a 250 volt insulation resistance tester. The insulation resistance should not be less than 0.5 megohm (for R.N.) or 5 megohms (for R.A.F.).

DIMENSIONS IN INCHES

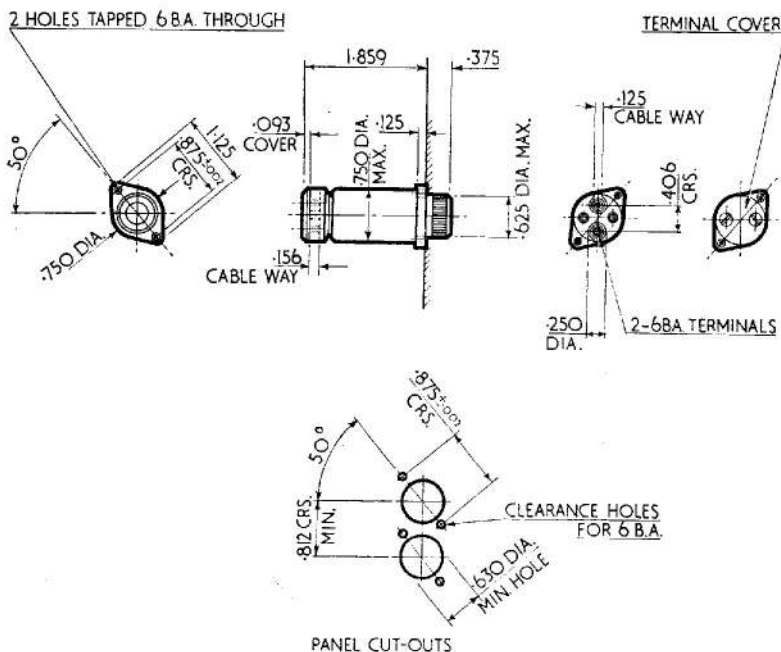


Fig. 2. Installation drawing

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