

Chapter 37

WARNING LAMP, PHOENIX, TYPE 80116

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LEADING PARTICULARS

<i>Warning Lamp Phoenix Type 80116</i> (less covers and filament lamp)	Ref. No. 5CX/5607
<i>Cover (red)</i>	Ref. No. 5CX/5608
<i>Cover (green)</i>	Ref. No. 5CX/5609
<i>Cover (NO SMOKING)</i>	Ref. No. 5CX/5867
<i>Cover (FASTEN SAFETY BELTS)</i>	Ref. No. 5CX/5868
<i>Filament lamp 28 volt 0.035 amp. M.C.C. (BA.9s) cap</i>	Ref. No. 5L/2667
<i>Rating (with filament lamp 28V 0.035A)</i>	continuous
<i>Overall dimensions</i>	1½ in. × 1⅜ in. × 2½ in.

Introduction

1. The Phoenix Type 80116 lamp is a double filament indicator principally used for individual passenger warning notices on transport aircraft. The filament lamps are each housed in separate halves of the lamp and either will illuminate the front cover and the legend written on it, i.e. FASTEN SAFETY BELTS.

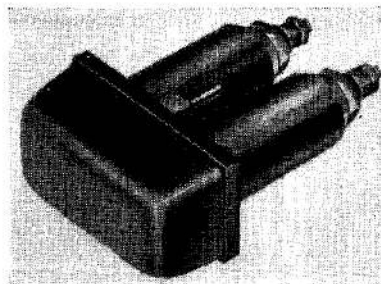


Fig. 1. Warning Lamp Phoenix Type 80116

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DESCRIPTION

2. The Type 80116 warning lamp consists of identical lamp holders housed individually in a moulded body, there being no electrical connection between the two. Each lamp holder is a single centre-contact, miniature bayonet cap, lamp holder and incorporates a threaded stem which accepts the plain nut by which it is secured in the moulding. The centre contact, which incorporates a spring-loaded terminal plunger on which the single contact of the lamp seats, is insulated from the lamp holder by a bush which seats into the neck of the lamp holder stem and a washer at the rear of the stem. A retaining nut holds the centre contact and the insulators in position, and a shake proof washer and plain nut are provided to secure the connection to the centre contact. The connection to the body of the lamp holder is made by a suitable $\frac{1}{4}$ in. ring-type connector secured to the stem by a second plain nut and a shake proof washer.

3. The lamp moulding has a square front flange and two cylindrical housings in which the lamp holders are fitted, and is secured in the mounting panel by two screws which pass through the front flange to engage with a locking bar positioned behind the panel and between the cylindrical housing. The front cover is retained by two tubular projections

which are spring-loaded to make them a push fit into the lamp holder housings.

SERVICING

4. The front cover should be removed and the lamp inspected for freedom from damage or corrosion. The filament lamps should be removed and the spring-loaded plunger checked for freedom of movement and freedom from corrosion. If it is necessary to renew the centre contact it should be disconnected and the contact retaining nut and insulated washer removed, the contact can then be pushed out from the rear of the lamp. Should the lamp holder require renewal it should be disconnected and removed by unscrewing the $\frac{1}{4}$ in. retaining nut. When re-assembling the lamp a cellulose cement should be applied to the lamp holder threads, the face of the lamp holder which abuts the moulding, and to the centre contact, insulating washer and retaining nut.

Insulation resistance test

5. The insulation resistance of the warning lamp should be measured with the filament lamps removed using a 250 volt insulation resistance tester the reading obtained measuring between any one contact and all others connected to a metal mounting panel should be not less than 5 megohms.

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