

Chapter 69

READING LAMPS, TYPE F.R. 6/7678 L and R

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LEADING PARTICULARS

Reading lamp, Type FR6/7678 L	Ref. No. 5CX/5613
Reading lamp, Type FR6/7678 R	Ref. No. 5CX/5614
<i>Lamp filament</i>	<i>Ref. No. 5L/9952254</i>
<i>Operating voltage</i>	28V d.c.
<i>Overall dimensions</i>	
<i>Length</i>	5 $\frac{3}{8}$ ins.
<i>Height (excluding switch)</i>	2 $\frac{5}{16}$ ins.
<i>Weight</i>	5 oz.

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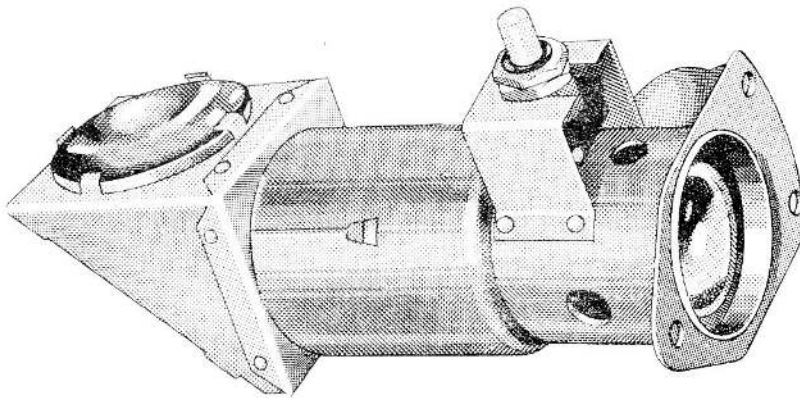


Fig. 1. General view

Introduction

1. The lamps are designed for individual passenger reading lamps, and give a 17 in. diameter circle of light at 3 ft. at an intensity of 6 lumens per sq. ft.

DESCRIPTION

2. The lamps consist of an aluminium housing assembly containing two plano-convex lenses which form a light condenser, a lampholder, and an adjustable focussing head. The focussing head contains a mirrored reflector and a double convex lens. A push button on/off switch is fitted to the underside of the lamp.

3. The two types differ only in the construction of the housing assembly, the FR6/7678L being constructed for left hand mounting, and the FR6/7678R for right hand mounting. In all other respects they are similar. Mounting is effected by screws through the three holes provided in the base plate. A general view of a lamp is given in fig. 1.

SERVICING

4. Servicing in-situ is limited to a functional check and inspection for damage, security of attachment and cable connections, and for cleanliness and corrosion. Examine the focussing head lens for cracks and security of attachment.

5. Remove the focussing head and examine the light condenser lenses for damage and cleanliness. Examine the switch for security of attachment and correct functioning. The lampholder should be tightly secured to the housing assembly, and should the filament lamp appear to be blackened it may be replaced to prevent failure during operational use.

Insulation resistance test

6. Using a 250 volt insulation resistance tester, test between each supply terminal and the casing. The minimum reading obtained should be not less than 5 megohms.

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