

Chapter 45

LANDING LAMP, HARLEY, TYPE 6GD

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LEADING PARTICULARS

Landing lamp, Harley, Type 6GD	Ref. No. 5CX 5428
<i>Filament lamp (special cap), double filament,</i>	
<i>280/280 watts</i>	<i>Ref. No. 5L 9959702</i>
<i>Front glass</i>	<i>Ref. No. 5CX/5430</i>
<i>Lens</i>	
<i>Weight</i>	<i>1 lb 6 oz</i>

Introduction

1. The Harley, Type 6GD landing lamp is a non-retractable landing lamp designed for fitting in the leading edge or to be faired into a fixed undercarriage.

DESCRIPTION

2. The lamp consists of two main parts: the front cover assembly and the reflector, which are held together by three 4 B.A. screws which screw into corresponding anchor nuts attached to the filament lamp (bulb) holder frame. The bulb holder frame fits inside the reflector casing and is therefore secured in position when the front cover and the reflector are assembled. The bulb holder frame is an aluminium ring with a bulb clamp section at right angles to the ring.

Front glass

3. The front glass is bedded into sealing compound and is held in position by means of the glass retaining ring screwed to the front cover by six 6 B.A. screws.

Lens

4. The lens, which occupies the top part of the lamp and fits with its corrugated surface towards the front glass, is held in position by two spring-loaded clips and two top clips (guiding grooves) which are secured to the front cover by 6 B.A. screws.

Filament lamp

5. The light source of this lamp has two filaments each rated at 280 watts. The main filament is accurately positioned at the focal

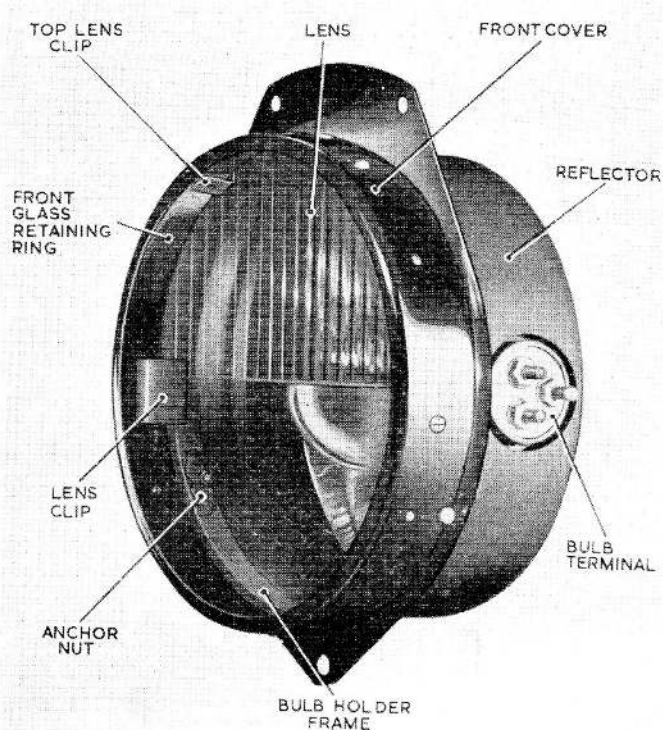


Fig. 1. Harley landing lamp, Type 6GD

point of the reflector, whilst the secondary or auxiliary filament is a little to the rear and above the main filament. The secondary filament produces a more dispersed beam for taxiing. The filament bulb cap has a locating pin at the side which locates in a hole in the bulb clamp. The filament bulb cap has three 2 B.A. terminal connections at its base. These are colour coded:—

Red	...	...	...	Main filament
Yellow	...	...	...	Auxiliary filament
Blue	...	...	...	Negative

SERVICING

6. Examine the filament lamp glass for white streaks (which indicate leaking glass seal) and for blackening. If a new bulb is required, unscrew the reflector, placing it face downwards on a flat surface. Disconnect the three terminals of the bulb and lift off the cable. Remove the half clamp retaining the bulb by unscrewing the two clamping screws.

7. Clean the inside of the lamp with a soft cloth; do not use a polish and avoid finger printing the reflector, front glass and lens.

If these items are dirty, use soapy water and dry with a clean cloth.

8. When fitting a new bulb see that it is correctly positioned by engagement of the locating pin. Ensure that the cables are replaced to the correct colour coding, and that terminal washers are in place, and do not overtighten the nuts. Replace the reflector and secure with screws.

Renewing a lens

9. Proceed as in para. 6 to 8 and then remove the spring-loaded and the top lens clips which secure the lens. Fit new lens with its flat side towards the bulb and replace the lens clips. Re-assemble the filament lamp and reflector.

Renewing front glass

10. Remove the lamp from the aircraft and place on a workbench. Remove the reflector and bulb. Remove the lens as in para. 9 and then unscrew the six 6 B.A. screws securing the retaining ring. Remove the front glass.

11. Clean away all surplus sealing compound from inside the lamp and fit the new glass.

RESTRICTED

Pack the space between the glass and the wall of the front cover with good quality plasticene. Secure the glass in position with the retaining ring. Re-assemble the lens and the reflector assembly.

Note . . .

As no sealing ring is employed in this lamp,

plasticene is used to provide resilient sealing.

Operation check

12. Test the lamp by switching on respective filaments for a short time. The general chapter on landing lamps is in A.P.4343, Vol. 1, Sect. 21.

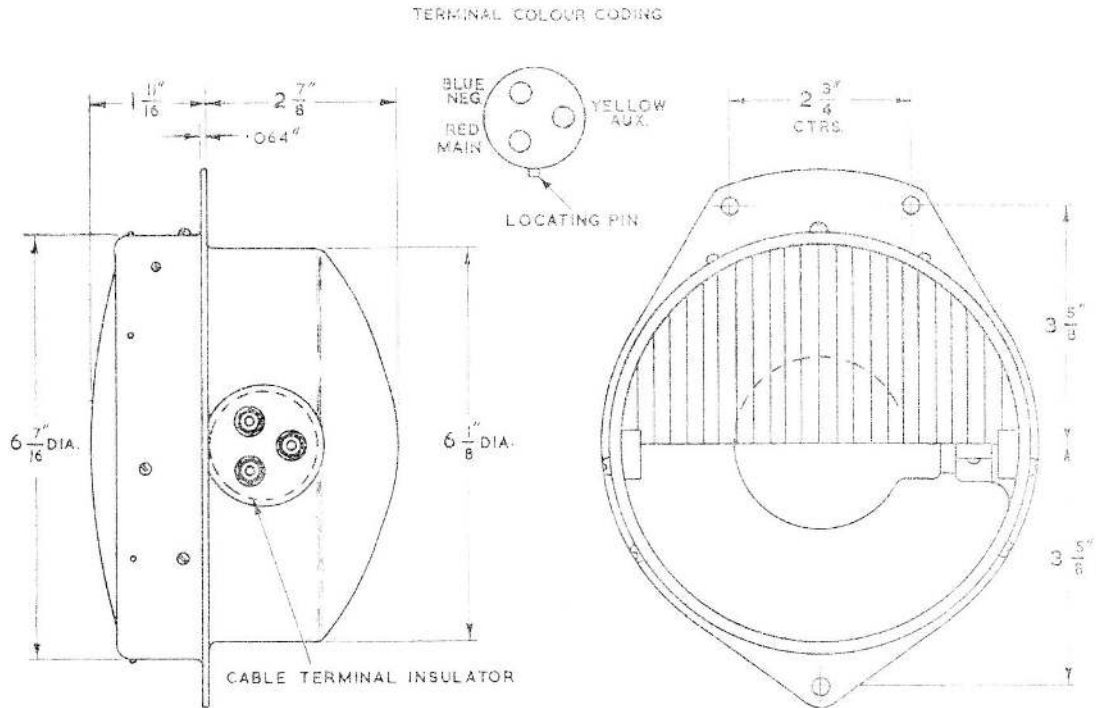


Fig. 2. Installation drawing

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