

FITTING INSTRUCTIONS FOR

LUCAS

"KING" RANGE

"KING MAJOR" "KING MINOR" "KING SPORTS" CYCLE DYNAMO LIGHTING SETS

These cycle lighting sets comprise dynamo, headlamp, rear lamp, and connecting cables. The dynamo and rear lamp are carried by a common clamping bracket designed for mounting to any D-section stay or to circular section stays of half inch diameter and above. The bracket must be mounted on the offside rear stay and to meet this location with all sizes of cycle ample lengths of cable are provided for connection with the headlamp. The ends of the cable within the headlamp body are fitted with ferrule-type connectors. Any surplus cable should be cut off at this end and the ferrules refitted, care being taken to reconnect correctly.

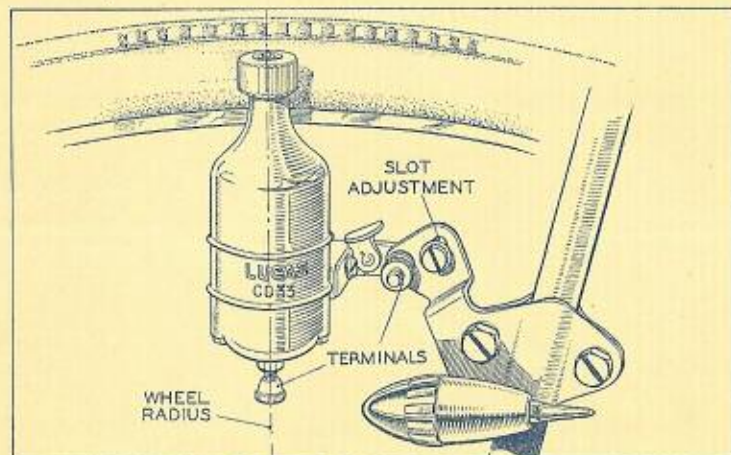


Fig. 1. Correct Mounting of Dynamo.

TO FIT DYNAMO.

Clamp the dynamo finger-tight to the offside rear stay. Slacken the screw in the slotted adjusting hole of the bracket (Fig. 1). Position the dynamo so that, when the catch is released, the whole face of the driving pulley bears squarely against, and slightly more than half way up, the side of the tyre. To prevent pulley slip and consequent tyre wear, the centre line of the dynamo must coincide with the wheel radius. When these conditions are obtained, tighten the slot adjusting screw and the bracket clamping screws.

NOTE: Under no circumstances must the Dynamo be dismantled. In the event of failure, no responsibility can be accepted for a Cycle Dynamo which has been tampered with.

THE "KING MAJOR."

TO FIT HEADLAMP.

Fit the lamp to the front bracket and tighten the clamping screws.

TO CONNECT.

Remove the rear lamp by unscrewing the single securing nut behind the dynamo bracket. Unscrew and withdraw the chromium-plated nut from the rear lamp. Fit the red sleeved cable end, with fork-shaped tag, so that the cable emerges through the lamp body and replace nut. Refit rear lamp to dynamo bracket. Check that the lamp is horizontal, slackening the locking nut if adjustment is necessary. The plain cable end, also fitted with fork-shaped tag, must be connected to the terminal at the base of the dynamo. Finally, connect the cable end with hook-shaped tag, to the terminal on the dynamo bracket.

TO OPERATE.

The lamp is fitted with a two-position sliding switch. To light the headlamp main bulb and rear lamp bulb it is only necessary to engage the dynamo pulley with the tyre. For battery operation the switch must be pulled back. In this position the headlamp pilot bulb and the rear lamp bulb are connected to the battery.

TO FOCUS.

The headlamp main bulb is of the screw-cap type and is provided with a locking ring for focusing. To obtain the focal position, remove the lamp front by slackening the motif fixing screw. Lift motif and withdraw lens and reflector unit. Turn the bulb holder to the left and withdraw. Slacken the locking ring and screw the bulb home, and then unscrew about half a turn. Refit bulb holder to the reflector. To do this the pilot bulb connecting strip must be at 10 o'clock before turning the bulb holder to the

right. Test and repeat until the desired light is obtained, then tighten the bulb locking ring. Refit lamp front, first locating the projection at the bottom of the lens with the hole in the underside of the lamp body. Tighten motif fixing screw.

The lamp body is hinged to the front screw of the lamp bracket. When adjusting the light beam, slacken this screw and nut, and tilt the lamp until the desired beam is obtained. Retighten the screw and nut.

TO REPLACE BULBS

Headlamp main bulb: Remove lamp front and bulb holder, as detailed above, and replace defective bulb by Lucas No. C997 (6 v. 0.5 amp. M.E.S.).

Headlamp pilot bulb: Remove main bulb holder and carefully withdraw pilot bulb holder, replacing defective bulb by Lucas No. C3515 (3.5 v. 0.15 amp. (M.E.S.).

Rear Lamp bulb: Unscrew the red moulded lens. Remove defective bulb and replace by Lucas No. C998 (6v. 0.1 amp. M.E.S.).

TO REPLACE BATTERY

Take off lamp front as detailed above and remove defective battery. Replace by Lucas No. 305R battery. Before fitting, bend back the long battery terminal strip as shown in Fig. 2. Slide the battery connectors on to the battery terminal strips. When facing the interior of the lamp body, the short terminal strip should be on the right-hand side. To clip the battery in position, tilt it forward and insert the upper end first.

Refit lamp front as described above.

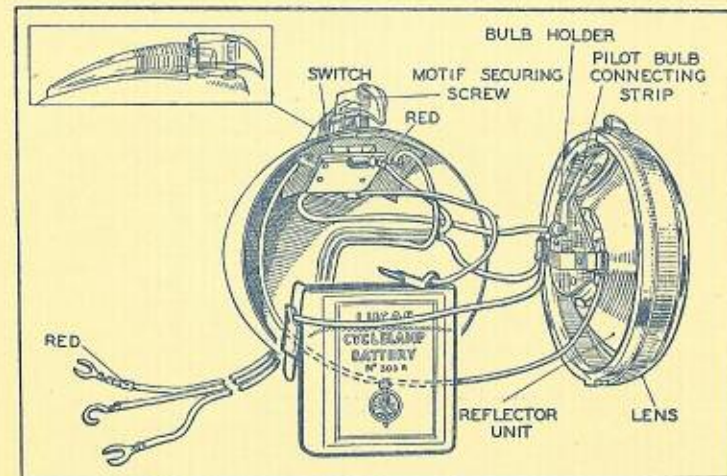


Fig. 2. Interior view of "King Major" Headlamp.

**THE "KING MINOR."
THE "KING SPORTS."**

TO FIT HEADLAMP Fit the lamp to the front bracket and tighten the clamping screws.

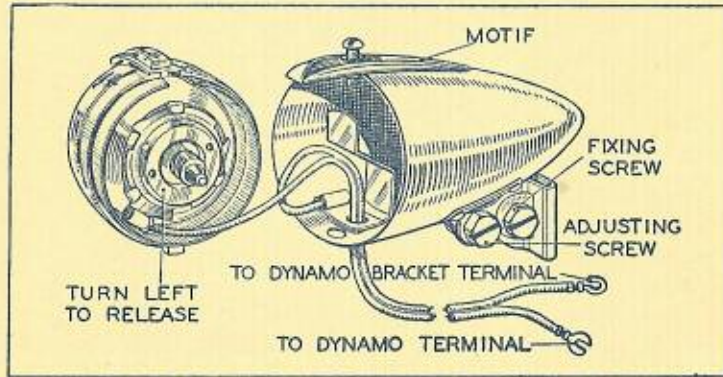


Fig. 3. Interior view of "King Minor" Headlamp.

TO CONNECT The headlamp is provided with a twin-core cable, the ends of which are identified by their terminal tags, see Fig. 3. Connect the end with hook-shaped tag to the terminal on the dynamo bracket. Connect the other end, together with the cable end from the rear lamp, both cable ends having fork-shaped tags, to the terminal at the base of the dynamo.

TO FOCUS The headlamp bulb is of the screw-cap type and is provided with a locking ring for focusing. To obtain the focal position, remove the lamp front by slackening the motif fixing screw. Lift motif and withdraw lens and reflector unit. Turn the bulb holder to the left and withdraw. Slacken the locking ring and screw the bulb home, and then unscrew about half a turn. Refit bulb holder to the reflector, turning it to the right for locking in position. Test and repeat until the desired light is obtained, then tighten the bulb locking ring. Refit lamp front, first locating the projection at the bottom of the lens with the hole in the underside of the lamp body. Tighten motif fixing screw. The lamp body is hinged to the front screw of the lamp bracket. When adjusting the light beam, slacken this screw and nut and tilt the lamp until the desired beam is obtained. Retighten the screw and nut.

TO REPLACE BULBS Headlamp bulb : Remove lamp front and bulb holder, as detailed above, and replace defective bulb by Lucas No. C997 (6 v. 0.5 amp. M.E.S.).

Rear Lamp bulb : Unscrew the red moulded lens. Remove defective bulb and replace by Lucas No. C998 (6v. 0.1 amp. M.E.S.).

REPLACEMENT PARTS

	Part No.	Retail Price
C.D. 33A DYNAMO		
Pulley Assembly	650777	1/- ea.
Bracket Operating Spring ...	650738	6d. ea.
Bracket Assembly Complete	650783A	5/- ea.
Bracket Loose Clip	650816	1/- ea.
Bracket Bolts	655435	6d. ea.
Terminal Nuts	169467	6d. ea.
HEADLAMPS		
Light Unit complete (King Major)	655446	7/6 ea.
Main Bulbholder Assembly (King Major)	655584	2/- ea.
Light Unit complete (King Sports & Minor)	655491	5/- ea.
Bulb Holder	655583	6d. ea.
Bracket Assembly (All types)	601208	2/- ea.
Bracket Bolts " "	655435	6d. ea.
Ferrules, Cable " "	188152	1/- doz.
Bulb Locking Washer " "	655582	6/- doz.
REAR LAMP		
Red Moulded Lens	655523	1/- ea.
Taper Terminal Nut	655526	6d. ea.



LUCAS
"KING OF THE ROAD"
CYCLE DYNAMO LIGHTING SETS

THE "KING" RANGE
"KING MAJOR" "KING MINOR"
and "KING SPORTS"

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JOSEPH LUCAS (CYCLE ACCESSORIES) LTD.
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