

Around the Trade . .

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LUCAS DYNAMO SET

ONE of the outstanding developments in cycle dynamo electrical lighting sets for 1937 is one with the switch for mounting on the handlebar. This set, the product of Messrs. Joseph Lucas, Ltd., will bear the old and honoured name of "Silver King." The set comprises three components, the lamp being a graceful and streamlined shape, and is a handsome fitment for any cycle.

The dynamo and rear light are a combined unit, fitting on to the rear stay, while the switch-box-cum-battery container fixes on to the handlebar with a clamp. The switch has three positions, namely, pilot, full, and dim. Small green medallions are fitted in the side of the lamp, while a red glass in the top indicates whether the lamp is on or off.

The arrangement of the switch on the handlebars is a most suitable one for riders who are accustomed to fitting their lamps on the front forks. The battery being combined with the switch makes the essential parts accessible, as well as reducing the weight on the lamp bracket. In addition, it obviates any leaning forward on the part of the rider to operate the lamp.

Dynamo Developments

Another Lucas development is a constant voltage output cycle dynamo of the six-volt type. This is very compactly designed, there being no brushes and no commutator. The particular feature of this dynamo is that it incorporates "Nifal" magnets, a material which, incidentally, is being employed in all Lucas cycle dynamos for 1937.

These magnets have been extensively used on the Lucas motor-cycle and car sets for some time with great success, and their adoption for cycle dynamos should further enhance the high standard of this company's pro-

ducts. The chief properties of the "Nifal" magnets are that they are unaffected by vibration or atmosphere, and, in addition, are highly resistant to demagnetisation.

Another consideration is that the volume of this material is considerably less than that of cobalt or tungsten steels, which are normally employed in cycle dynamo construction. This naturally provides an economy of space and weight.

There are five other Lucas cycle dynamo sets, all of six-volt capacity, almost identical with the set described, obtainable with combined or individual rear lamp and dynamo. There is also a very interesting light-weight set with a special light head-lamp, having no standby battery, and with a die-cast universal bracket built into the base of the dynamo.

Advanced Design

This year Messrs. Lucas have introduced on several of their battery models an entirely new and exclusive feature which marks a real advance in battery lamp design, namely, a patented shock-absorbing rubber back and battery cushion in one piece.

This new bracket, which is integral with the back of the lamp, absorbs road shocks and vibration, and is claimed to cut out the rattle. Being made of rubber, it is less likely to develop any irritating squeak, and the weather conditions will not impair its efficiency. It is also claimed that this bracket gives such a secure fixing that there is little likelihood of the lamp becoming detached.

The "Cyclock" deserves particular attention. This is a thief-proof device which fits over the lamp bracket and obviates theft. Once fitted, no key is necessary, as the security is effected by a lock washer which is hammered over the securing nut. To remove this would take so long that anyone would be unlikely to make the attempt.

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