



LUCAS

"KING OF THE ROAD" LAMPS AND "MOTOR-CYCLEALITIES"

LUCAS "King of the Road" Accessories are famed throughout the World for sound design, excellent workmanship and lasting finish. They are manufactured under the best conditions and with the latest and most improved plant

Designed for good, hard usage, they will give efficient and dependable service under the heaviest everyday running conditions. Our full range includes all sizes and types of Acetylene and Electric Lighting Equipment, Magnetos, Batteries, Horns, Mirrors, Oilers, "Girder" Wrenches and other necessary Accessories.

Lucas Equipment is listed as standard by many of the leading British Motor-Cycle manufacturers

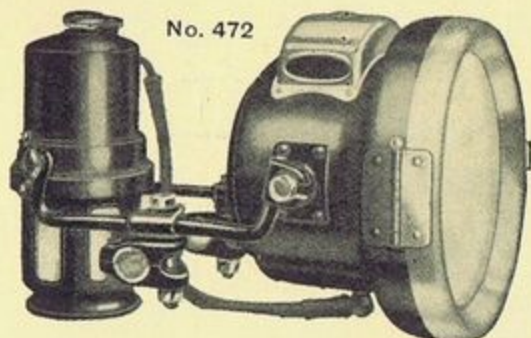
Ask for Illustrated Catalogs post free on request.

JOSEPH LUCAS LIMITED,
Head Offices and Works,
BIRMINGHAM, ENGLAND.

CODES USED A B C (5TH AND 6TH EDITIONS) AND BENTLEY'S.

LUCAS "KING OF THE ROAD" THE ROAD

Dependable



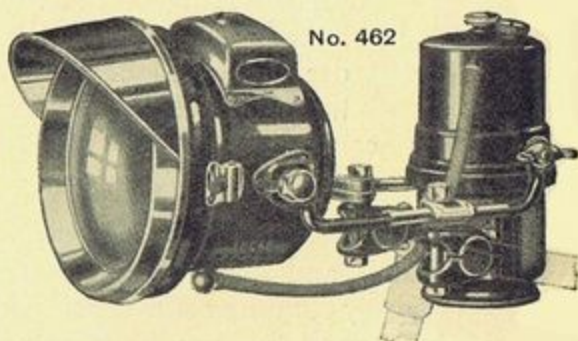
No. 472

No. 472, our largest Projector Set, is strongly built on similar lines to our Car Projectors. It has a Mangin Lens Mirror which gives a splendid light, the road being illuminated for a long distance ahead, while the beam covers the full width of road near the rider. The set is fitted with double brackets for handlebar.

Front, 7½ in. Weight (lamp only), 3½ lb.

No. 462 is another large model fitted with special Mangin Lens Mirror and parabolic reflector. It has a drip-feed type Generator with patented quickly detachable carbide container, and double brackets for fitting on handlebar.

Front, 6½ in. Weight (lamp only), 3 lb.



No. 462



No. 354
Sidecar
Set



No. 354 is a complete Sidecar Lamp Set consisting of Lamp, Generator, Generator Bracket and the necessary tubing. It gives a good white light forward and shows a red light to the rear by means of our special side reflector.

Lamp : Front, 4½ in. Weight, 14 oz.

The full range comprises fifteen different Projector Sets

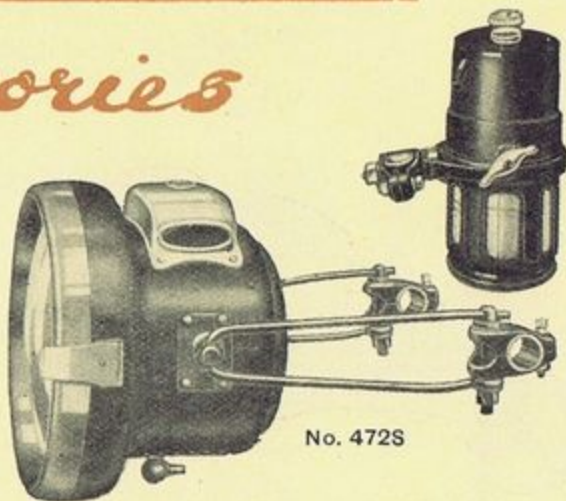
JOSEPH LUCAS LIMITED, HEAD OFFICES

"MOTOR-CYCLEALITIES"

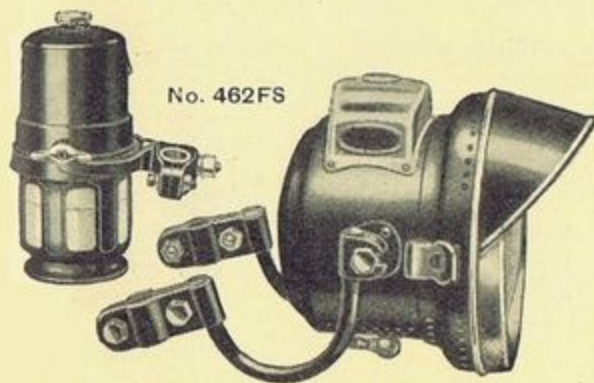
Accessories

No. 472S, Large Sports Model Set, has a Mangin Lens Mirror which gives an extraordinarily powerful light. Its long Girder Sports Brackets enable the lamp to be set low down and well ahead of the handlebars.

Front, 7½ in. Weight (lamp only), 3½ lb.



No. 472S



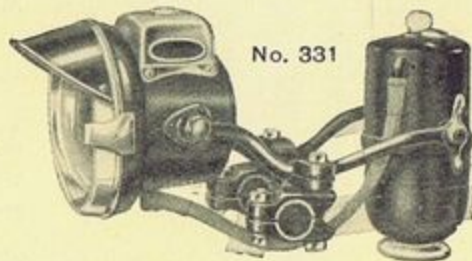
No. 462FS

No. 462FS Set is similar to No. 462, having the same projector, but is fitted with our special Front Fork Brackets which enable the lamp to be rigidly mounted on the front forks in a convenient position for light projection.

Front, 6½ in. Weight (lamp only), 3 lb.

No. 331 is a small Projector Set specially designed for Lightweight Motor Cycles. It is fitted with a Silvered Mirror Reflector which gives a very good light, and has adjustable double brackets for fixing on handlebar.

Front, 4½ in. Weight (lamp only), 23 oz.



No. 331

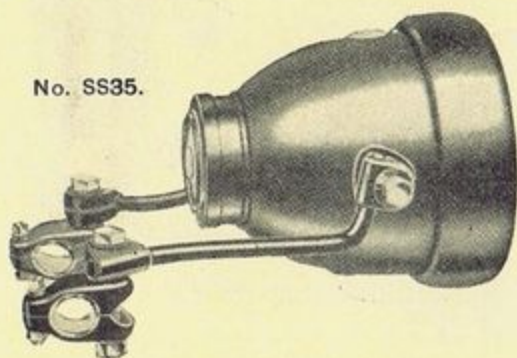
Side-car and Tail Lamp Sets, to suit all machines.

AND WORKS: BIRMINGHAM, ENGLAND.

LUCAS "KING OF THE ROAD"

Electrical

No. SS35.



No. SS35 Electric Projector gives a very powerful light, is pleasing and distinctive in outline and is fitted with handlebar brackets of great rigidity. The switch controlling battery charging and all lights is mounted at the back of the lamp in a very convenient position for operation while machine is in motion.

Front, 5½ in.

We list ten different models of Electric Projectors for Motor Cycles.

No. R335S Sidecar Lamp is pleasing in appearance and has a Silvered Reflector. Lucas patented Universally Adjustable Mounting and special focussing arrangement for bulb. Front, 3¼ in.

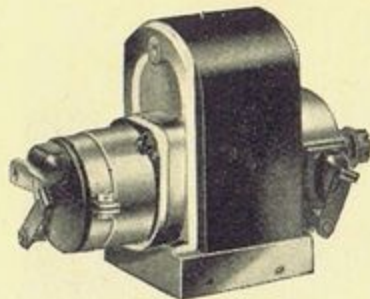
No. MT110 is a neat Tail Lamp which fixes through the rear number plate. The Bulb Holder is mounted on a rubber diaphragm which absorbs vibration, thereby lengthening the life of the bulb filament.



No. R335S.



No. MT110.



Lucas All-British Magnetos gained the following successes in the famous Isle of Man T.T. Races:—

1920 Junior T.T., 1st, 2nd, 3rd.

1921 Senior T.T., 1st.

1921 Junior T.T., 1st, 2nd, 3rd.

1922 Junior T.T., 1st, 2nd.

thus maintaining their reputation for giving unflinching service under the most strenuous running conditions.

Full particulars and prices of LUCAS MAGNETOS, independent DYNAMO LIGHTING and BATTERY

JOSEPH LUCAS LIMITED, HEAD OFFICES

"MOTOR-CYCLEALITIES"

Equipment

No. MB31 Electric Projector is notable for its brilliant even field of illumination and neatness of fitment. It is designed for fixing on the handlebar by means of a bracket integral with the front lug and, having the Lucas patented Universally Adjustable Mounting, it can be adjusted and set to the best position for light projection. The switch control is mounted at the back of the lamp.

Front. 5½ in.

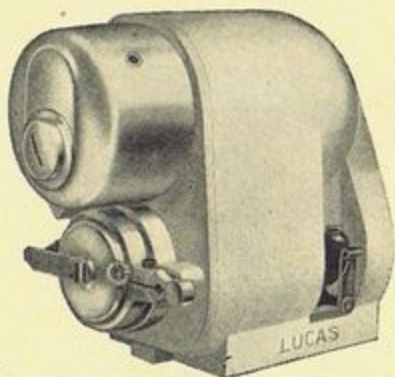


No. MB31.



Lucas Batteries are the outcome of many years of continuous research, and are manufactured in our own Battery Works under the best conditions and with the latest and most improved plant. The use of the new Lucas Moulding Material, known as "Milam," has eliminated the troubles experienced with leaking batteries, and not only has it added to their mechanical strength, but the elaborate moulding processes employed on this new material have enabled us to effect great improvements in the design and appearance of the battery. The scientific processes, through which all Lucas plates pass, ensure uniform current density and low voltage drop on discharge.

The Lucas "Magdyno" is a neat and compact double-purpose machine which provides ignition for the engine and generates current for the lamps. The Magneto portion provides a spark of great energy, ensuring easy starting and slow running as well as perfect firing at all speeds. The Dynamo charges the battery at an ample rate, more than equal to the lamp load. The machine is very little taller than the average magneto and on that account can be fitted on practically any machine. The standard electrical equipment on many British motor-cycles.



"MAGDYNO" (combined Lighting and Ignition) SETS,
LIGHTING EQUIPMENTS, may be had on application.

AND WORKS: BIRMINGHAM, ENGLAND.

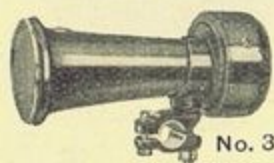
LUCAS



No. 63



No. 60



No. 3



No. 11



No. 40

Lucas "King of the Road" Motor Cycle Bulb Horns are famed throughout the World for effectiveness and carrying power.

No. 60 is a well-known "straight" pattern, while No. 63, similar but smaller, is designed for Lightweight motor cycles.

The Lucas Electric Horn, No. 3, can be operated for long periods without attention. It has a rich, full note which is very penetrative and not affected by varying battery conditions.

The Lucas Spare Bulb Case, No. 12C, prevents broken bulbs. It holds one headlamp and four small bulbs, and can be supplied with clip for securing on machine.

Lucas "Safety" Driving Mirrors give a wide field of vision, can be turned inwards (see illustration), and are adjustable in any direction. Rigidity of arm and fixing is a special feature.

Lucas "Girder" Wrenches are strong, quickly adjusted, and have a vice-like grip. Each size can be supplied with pipe-grip attachment for holding round tubes, bars, etc.

The Lucas "Forced-Feed" Oiler controls the flow of oil and will not leak. It pumps the oil, under pressure, just where required. We supply a clip which enables it to be secured in any convenient position on the machine.

JOSEPH LUCAS LTD., HEAD OFFICES

LUCAS

HINTS AND TIPS ON THE MAINTENANCE OF LUCAS ELECTRICAL EQUIPMENT.

REGULAR inspection and cleaning, together with the few adjustments referred to below, will help to maintain the Electrical Equipment in good condition.

MAGNETO. Occasionally remove pick-ups—if dirty, clean with a dry cloth. Before replacing, clean slip-ring track by holding duster against ring while engine is slowly turned. See that brushes are clean and free in their holders. The contact breaker must be kept clean, dry and free from oil, particularly the points: if these become blackened or wear unevenly, dress down with a dead smooth file, removing only the least amount of metal. If tungsten contacts are provided they should be cleaned with fine emery cloth when necessary; this will ensure easy starting and slow running. The gap should be adjusted to give correct clearance, *i.e.*, '012in. (gauge on magneto spanner). The electrode gaps of the sparking plugs should be '020 to '025in.

"MAGDYNO." This is a double-purpose machine providing ignition (see above) and current for lamps. Brushes should bear evenly on commutator and be free in their holders. Commutator must be clean and free from oil. If cover of machine has to be removed for adjustment, etc., first disconnect positive lead of battery to avoid danger of short circuiting. Cut-out must not be tampered with, as it is accurately set before leaving the Works.

BATTERY. The chief precautions to observe are as follows:—

1. Maintain acid level well above top of plates by addition of distilled water only.
2. If acid solution is spilt it must be replaced by pure sulphuric acid diluted with distilled water to a specific gravity of 1.225 at 60° F.
3. Do not allow battery to remain discharged. If run down recharge at once.
4. Keep all connections tight and smear with vaseline.

LAMPS. Alternative positions are provided in bulb holder to enable bulb to be set at approximately the focus of reflector. By trying bulb in each of the positions, the point at which the best road illumination is obtained can be found. If reflector is tarnished, clean with fine chamois leather and rouge wet with petrol; otherwise do not touch this.

AND WORKS : BIRMINGHAM, ENGLAND.

LUCAS

OVERSEAS SERVICE

FOR the convenience of users of Lucas articles Overseas—particularly Lighting Sets and Magnetos—we have Service Agents in the undermentioned centres. Each Agent carries a full range of replacement parts and complete units, and experienced staffs are at your disposal, not only to deal with repairs, overhauls and adjustments, but to give free advice and to help you to obtain from Lucas productions that unflinching service of which we know them to be capable.

AFRICA.

Egypt.			
CAIRO .. ..	..	Moring & Co.,	Midan Suares.
Kenya Colony and Uganda.			
NAIROBI .. ..	..	Kettles-Roy Ltd.,	P.O. Box 100.
Nigeria and Gold Coast.			
LAGOS .. ..	..	The Trading Association	of Nigeria.
Union of South Africa.			
CAPE TOWN .. ..	..	Stansfield Ratcliffe & Co. Ltd.,	8, Waterkant St.
JOHANNESBURG .. ..	..	do.,	United Buildings, New St., Government Square.
DURBAN .. ..	..	do.,	355, Smith Street.

ASIA.

India.			
CALCUTTA .. ..	..	G. Atherton & Co.,	8, Clive Street.
BOMBAY .. ..	..	do.,	70, Apollo Street.
MADRAS .. ..	..	Addison & Co. Ltd.,	Mount Road.
Ceylon.			
COLOMBO .. ..	..	Eastern Garage & Colombo Taxicab Co.,	P.O. Box 206.
		Mann, Little & Co.,	P.O. Box 175.
Burma.			
RANGOON .. ..	..	G. Atherton & Co.,	Sofaers New Building, Fytche Square.
Straits Settlements and Federated Malay States.			
SINGAPORE .. ..	..	Wearne Bros. Ltd.,	Orchard Road.
China.			
SHANGHAI .. ..	..	The Auto Palace Co.,	362, Avenue Joffre.
Japan.			
TOKYO .. ..	..	Maruishi Shokai Ltd.,	Imagawabashi Kanda.

AUSTRALIA.

Melbourne .. ..	..	S. N. Monks & Co.,	Elizabeth Street.
Sydney .. ..	..	Moody & Co.,	15, Goulburn Street.
Adelaide	Lenroc Ltd.,	122, Pirie Street.

NEW ZEALAND.

Wellington	L. M. Silver & Co.,	Lower Tory Street.
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JOSEPH LUCAS LTD., BIRMINGHAM, ENGLAND.