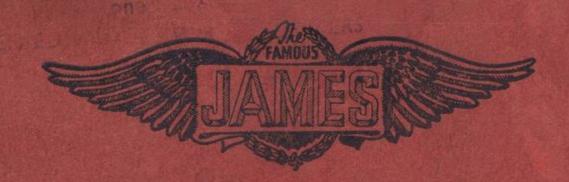
GARTON & DAY

CYCLE & OTORCYCLE DEALERS
BANK ST. 2 DE F. WH NG DE



DRIVER'S HANDBOOK AND LIST

of

Spare and Replacement Parts for



No. 98. Series 2.F.

SUPERLUX

THE JAMES CYCLE CO. LTD.
BIRMINGHAM, ENGLAND

(Subject to alteration with ut notice)



DRIVER'S HANDBOOK AND LIST

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Spare and Replacement Parts

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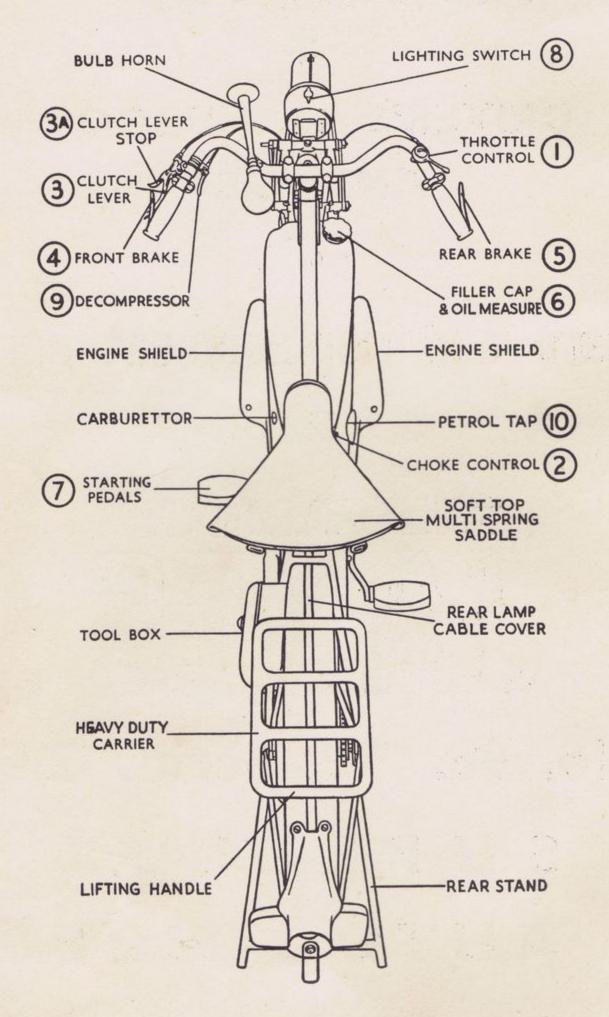
THE JAMES CYCLE CO. LTD.
BIRMINGHAM, ENGLAND

(Subject to alteration without notice)

The FAMOUS "JAMES"

SUPERLUX AUTOCYCLE

CONTROLS



TOOL KIT

L.1003 7/16 Single End.

B.M.L. 27A Mag. Spanner.

M.L. 57 Exhaust Pipe Spanner.

M.L. 56 D.E. Spanner 525/601.

M.L. 55 D.E. Spanner .338/448.

B.M.L. 30A Screw Driver.

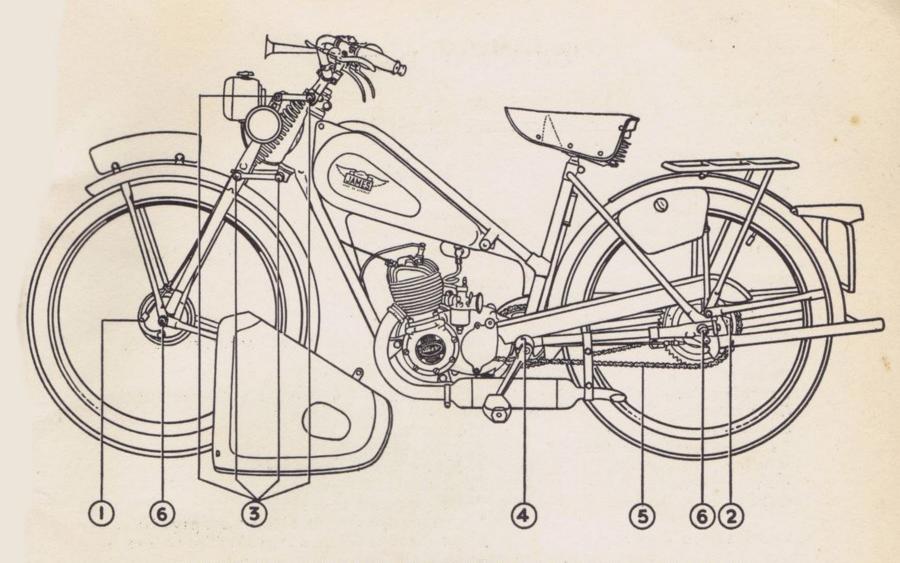
M.L. 59 Tyre Levers (3)

Driver's Handbook

and Spares List.

B.M.L. 44 Tool Wallet.

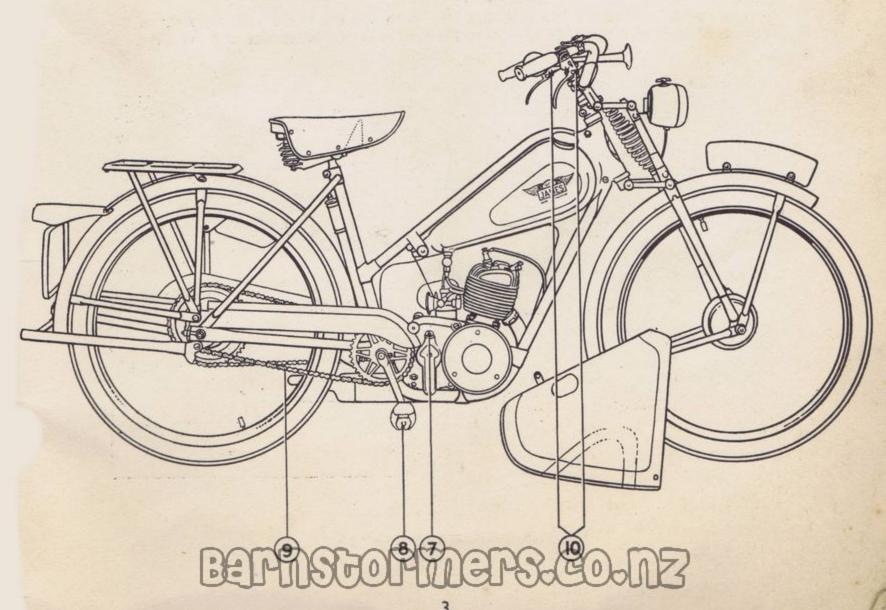
Plug Spanner.



OILING AND GREASING POINTS ON SUPER-LUX AUTO

Key No.			P.	ART			
1	Front Hub					 Light Grease	
2	Rear Hub					 Light Grease	
3	Fork Shafts					 Light Grease	
4	Bottom Bracket					 Light Grease	
5	Chain (Driving)					 Oil	
6	Brake Cams and			d Rear)	 Oil	
7	Clutch Case					 Heavy Oil	
8	Pedals					 Oil	*
9	Chain (Pedal)					 Oil	
10	Clutch and Brake	Levers				 Oil	

FOR RECOMMENDED LUBRICANTS SEE PAGE 38



GENERAL DATA

Model	Mk. 2.F.
Bore	47 mm. (1.8504").
Stroke	57 mm. (2,244").
Capacity	98 cc. (6 cu. ins.).
Horse Power, Maximum	2.0 at 3,750 r.p.m.
Engine Sprocket	17 Teeth.
Clutch Sprocket	42 Teeth.
Ratio, Engine to Clutch	2.47.
Final Drive Sprocket	II Teeth, ½" pitch for "COVENTRY" Chain
That Drive oprocket	No. 112045.
Rear Chain Wheel	48 Teeth.
Rear Chain	114 Pitch, $\frac{1}{2}'' \times \frac{3}{16}''$.
Chain Line, Final Drive	17".
Final Gear Ratio	10.76—I with rear wheel sprocket having
	48 Teeth.
Exhaust Pipe	I a external dia.
Sparking Plug	14 mm. Lodge H14, Point Gap .018" to .025".
Carburetter	Villiers "Junior" Type.
Carburetter Jet Size	Marked J8.
Carburetter Taper Needle	No. $2\frac{1}{2}$. Setting $\frac{29}{32}$ out.
Ignition Timing	1 before Top Dead Centre.
Contact Breaker	Point Gap .015" maximum.
Lubrication, Engine	Petroil mixture in fuel tank
	Recommended Oil see oiling chart page 38.
Lubrication, Chaincase	Recommended Oil (see page 38) filled to level
	plug. See Fig. I.
Lighting Set	Head Lamp Bulb, 6 volt 12 watt S.B.C.
	Head Lamp Pilot Bulb, 4 volt .3 amp. M.E.S.
	Tail Lamp Bulb, 4 volt .3 amp. M.E.S. Parking,
	Battery, Ever-Ready No. 1289.
Tyre Size	2.25 × 21"
Tyre Pressures	Front, 17lbs.—Rear, 32lbs.

LIGHTING SET

The head and tail lamps are fitted with single pole, single contact bulbs, and it is essential that both lamp bodies make metal to metal contact with the cycle frame to ensure a good EARTH for the lighting circuit.

The correct bulbs are listed in the DATA above, and the dry battery fitted in the head lamp is the EVER-READY No. 1289, or one of similar size and capacity.

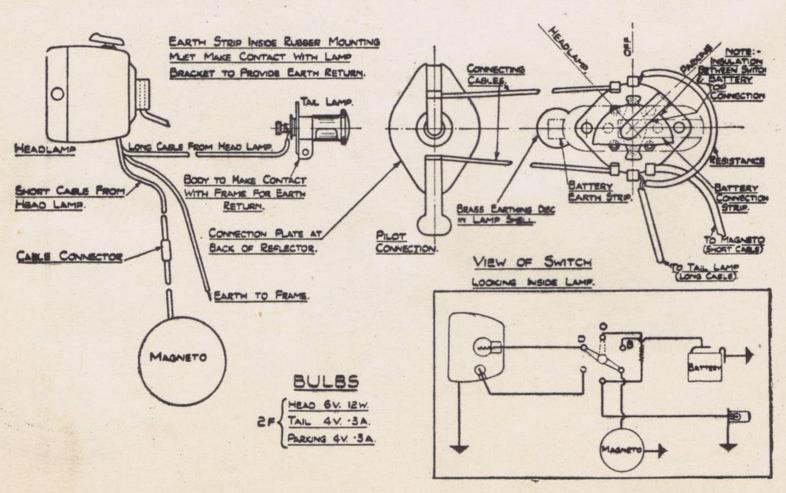


Fig. 3.
WIRING DIAGRAM Mk. 2.F.
BEFNSTOPHISTS-CO-NZ

The FAMOUS "JAMES" SUPERLUX AUTOCYCLE

SPECIFICATION

Fitted with the Mark 2.F. Engine, has built in unit with a countershaft clutch, the drive from engine crankshaft being by an endless roller type chain running in an oil bath case.

A deeply finned cast iron cylinder with one exhaust and two transfer ports of

unique design is used, the carburetter being mounted on a stub at the rear.

Secured to the cylinder by four bolts is an aluminium alloy head in which is. fitted a 14 mm. sparking plug (Lodge H14). The aluminium flat topped piston carries a floating gudgeon pin located endways by circlips. The "big end" bearing consists of two rows of steel rollers running on a crankpin fitted in double crankwebs carried by a large ball journal bearing on each side.

Power is taken through a two plate cork insert clutch, control being by Bowden

cable and lever fitted on handlebar.

Final drive to rear wheel is by a roller chain. A Villiers Junior pattern carburetter is fitted at the rear of cylinder, control being by a single lever. A strangler for easy starting, and within the reach of the rider, is provided, and a gauze type air filter prevents the entry of dirt and water.

A decompressor to assist in starting the engine is fitted in the cylinder head,

control being by Bowden cable and lever fitted on the handlebar.

The ignition and lighting current is provided by the Villiers flywheel magneto, a special model giving increased output having been developed. The headlamp now carries a 6 volt 12 watt bulb.

AUTOCYCLE FITTED WITH VILLIERS MARK 2.F. UNIT BEFORE USE

CHAINCASE. Remove the chaincase oil filler and oil level plugs, see Fig. I, and with the cycle off the stand, pour in recommended Oil (see page 38) until it runs out at the level plug hole. Refit plugs securely. Examine every 500 miles and top up if necessary.

ENGINE LUBRICATION AND FUEL SUPPLY SYSTEM

FUEL TANK. Capacity 1½ gallons approximately. Fill up tank with "Petroil" mixture made by mixing thoroughly half a pint recommended Oil (see page 38) with one gallon of Petrol, or four measures of Oil to one gallon of Petrol (measure incorporated in filler cap). On no account must the oil be put into the tank before mixing, and it is advisable to pour the mixture through a fine mesh gauze when putting into tank.

If these instructions are followed, lubrication of all parts of the engine is

automatic and efficient.

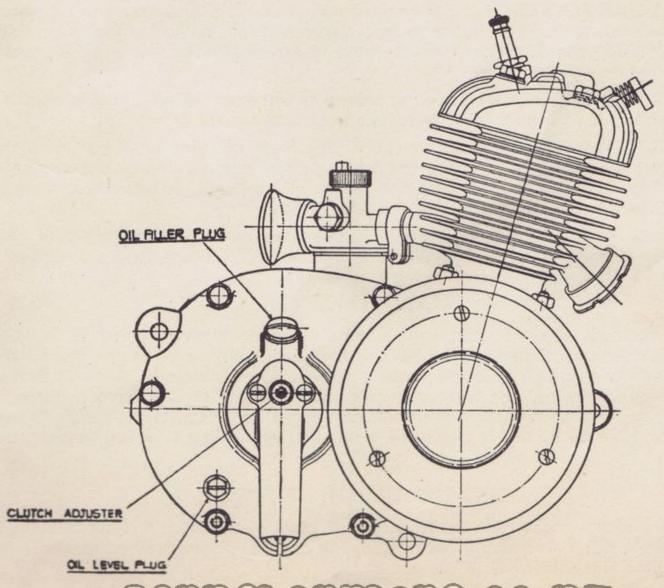


fig. 1.

BEPNSTOPMEPS.CO.NZ

5

STARTING THE ENGINE

Where the owner has had no previous experience of driving it is advisable to become accustomed to the use of the various controls and, therefore, before attempting to start the engine, the cycle should be put on its stand, the rear wheel being off the ground.

The carburetter control lever is moved by the right hand and opens inwards to increase the speed of the engine.

The decompressor or compression release valve, as it is sometimes called, is controlled by a small lever usually fixed on the underside of the left handlebar and immediately in front of the clutch control lever.

The function of the decompressor is to release the pressure in the cylinder head so making it possible to rotate the engine by means of the pedalling gear when starting by this method.

The fuel tap can now be turned to the ON position, and the strangler closed by lifting the lever at rear of carburetter. Open the carburetter control lever about one third its total movement, and flood the float chamber by depressing tickler. Rotate engine by pedalling whilst sitting on the saddle, and the engine should start when the decompressor lever is released. As the engine warms up after running for half a minute or so, the strangler can be gradually moved to the fully open position. In very cold weather it may not be possible to do this immediately, in which case leave strangler partly closed until engine is warmed up, if opened up too quickly spitting back through carburetter will occur. When the engine is warm from previous running, it should not be necessary to either flood the carburetter or use strangler when restarting.

Having started the engine by the pedals, the machine still being on the stand, withdraw clutch by pulling up the clutch control lever.

The lever is held in the "OUT" position by a spring loaded trigger. The machine can now be pushed off the stand, the rider still being astride the saddle, and a get away can be made by gently letting in the clutch at the same time opening the throttle to take the load.

An alternative method of starting is by pushing the machine. Flood the carburetter, open the throttle and depress the compression release valve as before, wheel the machine forward a couple of yards and release the valve control lever, and then as the engine fires, pull up the clutch control lever. With the clutch disengaged and the engine running, the rider can then mount the machine and move off by clutch and carburetter control.

STOPPING THE ENGINE

The engine is stopped by moving the control lever to the closed position, and just before coming to rest the release valve should be used to prevent the engine jerking over compression.

FAILURE TO START

FAILURE TO START. If the engine will not start after a reasonable number of attempts, ascertain if this is due to lack of compression, no fuel or faulty ignition. COMPRESSION should be felt whilst rotating the engine by the pedalling gear, with the throttle partly open.

FUEL SUPPLY. Depress tickler at side of carburetter body. If fuel is reaching float chamber, it will spurt from vent hole in tickler cap.

FAULTY IGNITION. Unscrew spark plug from cylinder head and with the igintion cable attached place on a flat metal part of engine. When the engine is rotated a spark should be visible at the points. If no spark, detach cable and hold end \(\frac{1}{8}'' \) from cylinder whilst rotating engine.

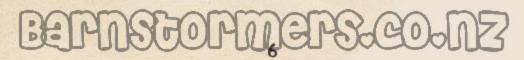
If these preliminary tests prove negative a more detailed examination will have to be made, and reference should be made to "Tracing Engine Troubles" on pages 14—15.

RUNNING IN

For the first 500 miles the engine must not be over-driven, and during this period the throttle should not be fully opened. The engine must not be allowed to race, or run at a high speed under a light load. Do not exceed 20 m.p.h. during the running-in period, and after covering about 500 miles it will very likely be necessary to weaken off the mixture by lowering slightly the taper needle in carburetter. How to do this is explained in the section dealing with the carburetter.

CHAIN LUBRICATION

The primary chain runs in an oil bath case. See page 4 chaincase. The rear chain is not automatically lubricated, and should be removed occasionally for lubricat on; a graphited oil is recommended.



PERIODICAL ATTENTIONS

WEEKLY

TYRES. Check pressures frequently, and keep inflated to 17 pounds for the front and 32 pounds for the rear. When using the machine on wet or greasy roads, it is better to apply BOTH brakes together, because sudden or harsh application of either brake only, under such conditions, may result in a skid.

SPARKING PLUG. Clean once a week.

MONTHLY

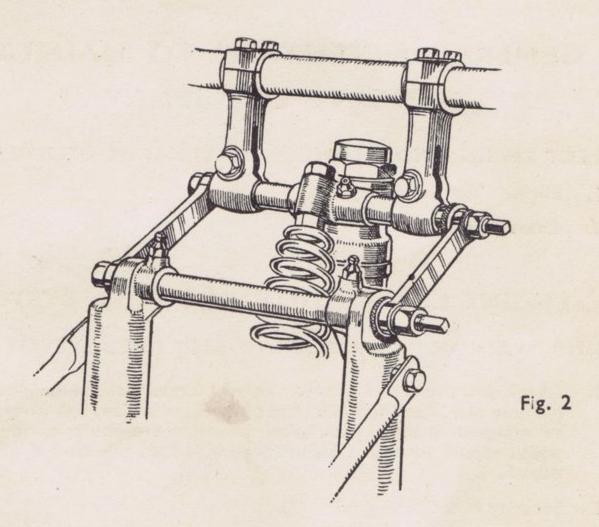
Clean carburetter pipe and filter.

Check rear chain for adjustment. Normal slack $\frac{3}{8}$ to $\frac{1}{2}$ at tightest place.

EVERY 1,000 MILES

BRAKE CAMS. Lubricate with oil can. An excessive quantity of oil should not be used, otherwise this may get through to the brake linings.

FORKS. Check adjustment of fork links and spindles. To adjust the fork shafts, release the nuts at each end, and turn shaft by the square end anti-clockwise to take out play caused by wear; afterwards tighten locknuts securely. A knurled washer is placed on each fork shaft, and it should just be possible to revolve this when the adjustment is correct.



EVERY 5,000 MILES (or more frequently under extremely wet or muddy conditions)

HUBS. The hubs are packed with grease during assembly, to lubricate the bearings and prevent the entry of mud and water. A grease nipple on the hub is provided for the periodical injection of fresh grease. The quantity injected must not be excessive—one or two shots of the grease gun will be sufficient—or there will be a tendency for the surplus to work into the brake drum and so cause inefficiency.

It is advisable, in order to enjoy trouble-free riding, that the engine and machine should have periodical attention, and the following hints will help to keep the engine in good running order:—

Every 500 miles inspect level of oil in clutchcase by removing level screw. (See Fig. 1). Top up if necessary with grade of oil previously recommended.

Examine the contact breaker points after the first 500 miles have been completed as the points may require slight adjustment after initial bedding in. The correct gap when points are fully open is .015". They should also be kept free from oil.

BEPNSFORMEPS-CO-NZ

Every 2,000 miles remove cylinder head and scrape out carbon. The edges of the exhaust port in the cylinder can be cleaned when the piston is at the bottom of the stroke. Clean piston top.

It should not be necessary to remove barrel and piston every 2,000 miles, every 4.000 miles should be sufficient.

Every 2,000 miles remove and clean silencer, exhaust pipe, and carburetter air filter.

Occasionally check clutch control cable adjustment. There should be a very small amount of slack in the clutch cable when clutch is engaged. Adjust clutch cable by means of adjustment screw on clutch bridge casting (see Fig. 1). Screw adjuster in until there is just a trace of slack in the cable; this is essential, otherwise the clutch may be slightly disengaged and cause slipping. Tighten locknut after adjustment.

Periodically examine joints, cylinder head, cylinder base, crankcase and clutchcase for gas or oil leaks, and tighten if necessary. Examine all visible nuts, bolts and screws for looseness.

Check tyre pressure weekly and keep inflated at 17 pounds front, 32 pounds rear.

Clean plug weekly.

Clean petrol pipe and filter monthly.

Check rear chain adjustment monthly.

GENERAL ATTENTION TO MAINTAIN ENGINE EFFICIENCY

INSPECT ENGINE MOUNTING, AND TIGHTEN IF NECESSARY

- 1. Engine frame bolts (3).
- 2. Crank case bolts.

ENGINE LUBRICATION AND FUEL SYSTEM

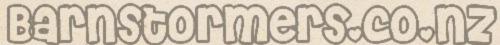
ENGINE "PETROIL" LUBRICATING AND FUEL SYSTEM

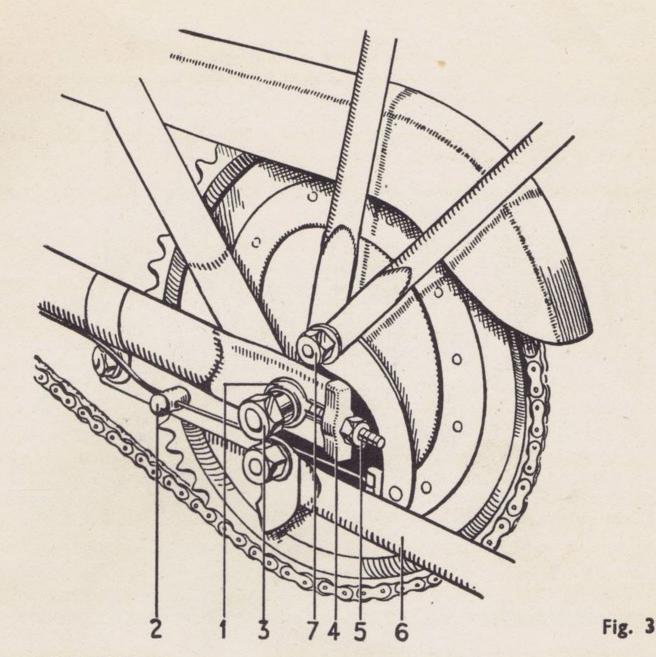
- I. Check quantity of fuel in tank. Do not forget that the fuel also serves the purpose of lubricating all internal parts of the engine, and always remember to replenish the fuel tank with the correct mixture of oil and petrol, which should be mixed before putting it into the tank if possible. See page 5.
- 2. Security of tank fixing bolts (2).
- 3. Leaks at taps and unions. Do not over-tighten where fibre washers are fitted. Tighten petrol tap. If petrol tap is loose, slacken petrol pipe before tightening. Check banjo union at carburetter end of pipe. Check nut on base of float chamber.
- 4. Throttle cable frayed or sharp bends in cable run. Alter position of clips if necessary.

STEERING, BRAKES, WHEELS AND TYRES

EXAMINE CONTROLS

- 1. Examine handlebar control levers for tightness on handlebar, freedom of operation of clutch, brake.
- 2. Put a spot of oil on the end of each control wire and on the pivot pins for clutch and brake.
- 3. See that there is a small amount of slack in the clutch control, when in the off position. Adjust if necessary. Do not take adjuster screw out of casting.





TO ADJUST CHAIN

Release nut holding Brake Anchor Bolt, slack off spindle nuts (3), both sides. To tighten chain, draw wheel back by means of nut 5, an equal turn on each to keep the wheel central. After the adjustment has been carried out tighten nuts (3), check position of the rim. This should be central, in the chain stays. Do not forget to secure Rear Brake anchorage.

TO ADJUST TENSION AND PEDAL CHAIN

Release the 2 cotters by unscrewing the 2 3 nuts found on the underside
of the bottom bracket.

 Turn the eccentric bracket, by means of the flats milled on the left hand side, clockwise to tighten the tension on the chain and vice versa.

3. Re-tighten nuts when the correct tension is obtained.

SECURITY

I. Examine each control cable inner wire for fraying.

2. Examine each control outer cable and see that there are no sharp bends, and cables are not kinked or chafed.

3. Wheel mounting nuts (2 on front axle, 2 on rear axle).

LUBRICATION

Before applying gun, carefully clean exterior of nipples. Wipe off all excess lubricant when finished.

1. Wheel hubs (I nipple on each hub). Periodical attention only. See page 7.

2. Grease fork shafts (5 nipples).

3. Moving parts-Oilcan-

Brake levers, front and rear.

Rear brake joint.

Rear stand.

Brake cams. Periodical attention only. See page 7.

WEAR AND ADJUSTMENT

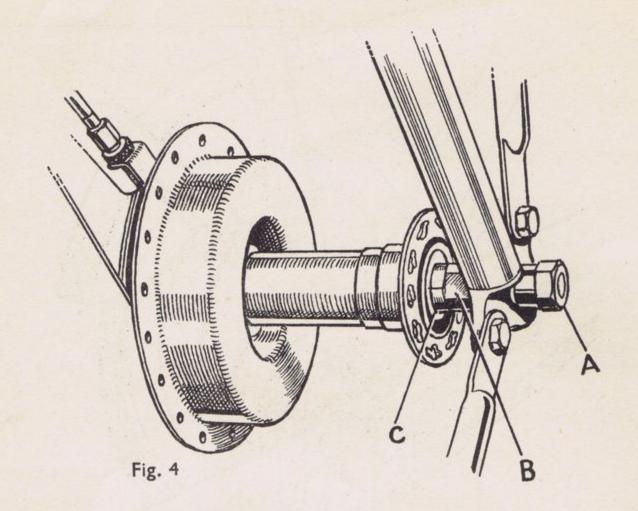
. Test for up and down play in steering head.

- (a) Grip the handlebar head clip lug where it meets the main frame head lug with the fingers of the left hand, and at the same time hold the forward end of the front mudguard with the right hand and lift.

 Movement of the head clip lug felt with the left hand indicates slack-
- (b) Adjust if necessary by releasing head clip nut, and screwing down the large head locknut. Do not use excessive force. Finally, tighten head clip pin locknut.

BEPNSFORMEPS-CO-NZ

9



TO ADJUST FRONT WHEEL

First slacken nuts A, then nut B and the adjustment is quite easily made by the adjusting cone C. When the correct adjustment is obtained no side play should be felt, but the wheel should revolve quite freely.

Brake adjustment. Tighten by screwing knurled adjuster clockwise on brake plate.

SILENCER

The silencer fitted on this machine provides for a clear passage of the exhaust gas and is designed to give the utmost power output from the engine; it should not be interferred with in any way with the exception of an occasional clean, say every 2,000 miles. To do this first undo the screw which holds the collar, then detach the complete silencer from the frame of the machine. Afterwards undo the three small screws at the tail pipe end of the silencer, pull apart and take off the old glass wool and replace with either glass wool or if this is not available, wire wool, which should be wrapped round the interior of the silencer so that no holes are exposed. Replace this by pushing it back into the body making sure that the screw holes in the end cap correspond with the small holes in the body of the silencer. Re-insert the three small screws and assemble on to the machine.



CARBURETTER

The Villiers Junior Carburetter is used with the Mark 2.F. Engine, and it should not be necessary to alter the setting obtained by the maker (except for needle adjustment), after road testing the machine.

OPERATION OF CARBURETTER

The function of the carburetter is to supply a mixture of petrol and air in correct proportion under all conditions. In the Villiers carburetter the float chamber surrounds the jet and centrepiece, and in the chamber an annular float rises as the fuel enters the chamber until the correct level is obtained, then the forked lever which rests on the top of the float lifts the fuel needle which has a conical end and shuts off the fuel supply by closing the hole in the bush fitted in carburetter body.

Fuel enters the centrepeice through a hole in the side and passes through the calibrated jet fitted in the bottom of centrepiece.

The throttle operated by the cable is fitted with a taper needle which extends below the throttle and into the centrepiece. When the throttle slide closes the air supply the largest diameter of the needle nearly closes the fuel outlet, but when the slide is lifted admitting more air, the smaller diameter of the needle now in the centrepiece allows more fuel to pass. A suitable combination jet size, needle position and taper will give a correct mixture strength on all throttle openings.

The fuel level is maintained by a float and needle valve, and under no circumstances should any alteration be made either to the above or to the float lever.

The amount of fuel supplied to the engine is controlled by one jet which is fixed in the bottom of the centrepiece, and by the taper needle which is carried in the throttle and operates in the top end of the centrepiece.

The jet is not detachable from the centrepiece and is not supplied separately.

The carburetter is automatic in action and gives a correct mixture over the whole range of throttle openings, the only available adjustment being the position of the taper needle in the throttle (which controls the size of the jet orifice), and is necessary to suit individual engines.

The needle controls the mixture strength from tickover to approximately two-thirds throttle, the jet controls the remainder.

The position of the taper needle in the throttle is determined during testing at the works, but should it be necessary to alter the setting this is done by the needle adjusting screw situated in the centre and top of throttle. Screw in to weaken mixture, (i.e. lower needle), the screw should not be loose in the throttle slide as it is likely to move and alter the setting. It is split to make it grip the hole. should the screw be loose the split portion should be gently prised apart before fitting.

NOTE.—The taper needle spring should be fitted with the small coil under the head of needle.

TO DISMANTLE CARBURETTER

TO REMOVE THROTTLE FROM BODY

Open throttle to full open, undo top ring, throttle can now be withdrawn. Take care not to damage or bend the taper needle. Return throttle to fully closed position, the guide peg attached to top disc will then be exposed and, if necessary, the control cable can be detached by compressing throttle spring, the inner cable then being lifted out through the slot.

TO REMOVE CENTREPIECE AND FUEL NEEDLE

Unscrew the bottom nut underneath the float chamber cup. Next remove the fibre washer, the cup with float inside, and if loose, the fibre washer between cup and carburetter body. Then remove the small centrepiece locking screw situated below and to the rear of the banjo petrol pipe union, the centrepiece with fibre washer under head can now be pushed up through the throttle bore.

When the centrepiece is removed the fuel needle lever can swing round and will thus allow the fuel needle to drop out of its seating; the needle should therefore be removed at the same time as the centrepiece and kept in a safe place until required for reassembly. No attempt should be made to remove the fuel needle lever from the carburetter body.

TO REMOVE TICKLER

This should not be necessary unless the vent hole in base of body is blocked, in which case remove the split cotter pin at end of tickler which will release the tickler and its spring. One vent hole is at the bottom of the hole where the spring fits, the other being in the side of the tickler cap.

CARBURETTER SETTING

The carburetter is fitted with a taper needle marked $2\frac{1}{2}$ on the parallel portion under the head, a centrepiece marked J8 on the head, and the jet (which is not detachable) marked 8 on the hexagon portion. The normal taper needle setting is $\frac{39}{32}$ " from the bottom of the throttle to the end of the needle, but this is usually a matter of individual adjustment to suit each engine.

REASSEMBLY OF CARBURETTER

This, of course, is the reverse process to that already described; the fuel needle should be fitted point first, the fuel needle lever should then be placed so that it holds the needle in position whilst the centrepiece is replaced. Care should be taken to see that the centrepiece complete with fibre washer is fitted so that the locking screw locates in the slot in the head of the centrepiece. When refitting float do not overtighten bottom nut as this may distort the jet.

FLYWHEEL MAGNETO

The Villiers 6-Pole Flywheel Magneto provides alternating current for both ignition and lighting. A connector is fitted to the lighting cable and this must be unscrewed should the engine be removed. Keep the rubber sleeve in position over the connector, otherwise a short circuit may occur.

The armature plate which carries the ignition coil, lighting coils, and contact breaker mechanism is secured to the engine crankcase by four screws. The H.T. lead from ignition coil to sparking plug is detachable by unscrewing from armature plate and when refitting it is important to make sure that the brass pad carried by the spring and secured to the terminal makes contact with the soldered disc on the outside of the ignition coil.

In the magneto flywheel are fitted four permanent magnets and two dummies, and it is very important should these be removed at any time that they are replaced in the original position in relation to the peak of the cam profile ground on the centre boss which is rivetted to the arms of the flywheel.

CONTACT BREAKER ASSEMBLY

This is of the latest improved type requiring a screwdriver only to adjust the contact points. To adjust the contact points proceed as follows:—

Turn flywheel until rocker pad is on top of cam profile of flywheel boss. Release the screw "A," see illustration, Fig. 6.

Position Bracket "B" with .015" feeler gauge between contact points, tighten screw, taking care not to use too much force. It is not necessary to disturb screw "C" when adjusting point gap.

A felt pad is used to keep the cam in a slightly oily condition, and is impregnated when new with grease. This can, if visibly dry, be oiled with a small amount of the heaviest oil available. It is better, however, to soak the pad in a molten high temperature grease if it is convenient to detach the box itself for this operation. If too much oil is put on the felt pad it may creep along the Rocker Arm, get on the contact points and so cause ignition trouble.

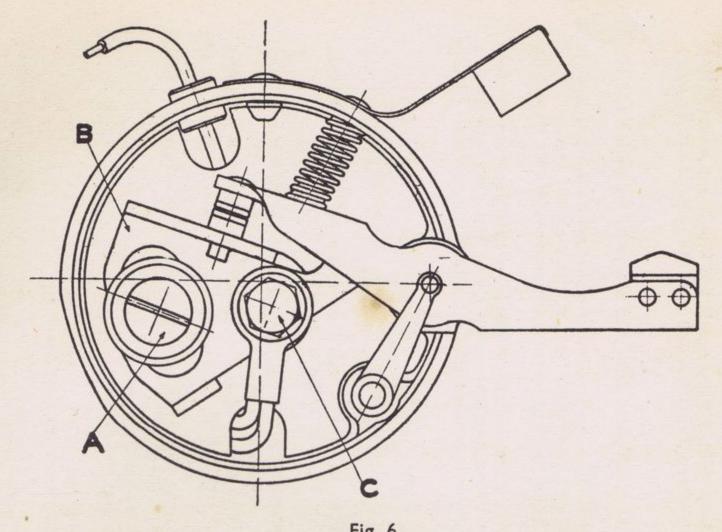


Fig. 6.
CONTACT BREAKER ASSEMBLY

The flywheel should not be removed unless absolutely necessary, and then it is advisable to use a Villiers hammer tight spanner for the centre nut. The nut is imprisoned in the flywheel and acts as an extractor when turned anti-clockwise looking at the magneto.

Before access can be made to the nut, of course, the flywheel cover has first to be removed by releasing the three screws holding cover to flywheel.

TIMING OF THE MAGNETO

The contact breaker points should commence to open when the piston is \{ \frac{1}{8}'' \} before top of stroke. Timing marks are stamped on both the armature plate and flywheel rim.

The mark on the armature plate is stamped on a small boss on the rim of the armature plate, and the mark on the flywheel rim coincides with this mark when the piston is at the top of the stroke. On checking timing it is only necessary to remove the sparking plug; turn flywheel until the two marks are opposite when the piston should be at top of stroke.

When timing ignition after dismantling loosely fit the flywheel to shaft and, having set piston $\frac{1}{8}$ " from top of stroke, rotate flywheel without turning the crank-shaft until the contact points commence to open. Tighten up flywheel centre nut sufficiently tight for crankshaft to be rotated. Check to see that the flywheel has not slipped. Finally tighten the centre nut with the special hammer tight spanner, refit cover and screws.

13

TRACING TROUBLES

For the satisfactory running of any Villiers Engine it is essential that three main conditions are fulfilled, and by making a systematic and intelligent investigation the faults can usually be located and rectified. Usually when the engine stops, symptoms give a clue to the cause, but where this is not the case, the trouble can be more easily diagnosed by following a definite method of investigation.

The three conditions mentioned above are as follows:-

1. The required quantity of combustible mixture (petrol and air) must enter the engine, which means that a sufficient supply of fuel must be available at the carburetter and that the throttle should open and close freely.

2. There must be a good spark at the plug points, when under compression, and at the correct time in relation to the position of piston on its upward stroke.

3. The engine must be in good mechanical condition, there must be good compression in cylinder and crankcase, and no air leaks at the various joints.

When cause of the trouble is not evident carry out a preliminary examination covering the following points, but if this fails to trace the cause reference should be

made to the Fault Finding Charts.

Having made sure that there is "petroil" in the tank, and tap is in the ON position, depress tickler to check if there is any stoppage or obstruction in the fuel supply either in the tap, fuel pipe, banjo union or fuel needle seating. Being satisfied that fuel is reaching the carburetter, next unscrew sparking plug and with high tension lead attached lay on cylinder head. Test by turning engine by pedals with cycle on stand, and if the spark is satisfactory it is possible that the timing is incorrect. Finally examine the carburetter controls to make certain the throttle is actually opening when the control lever is moved.

ENGINE WILL NOT START

Sequence of Testing.

Depress tickler on carburetter to check whether fuel is reaching carburetter.

If no fuel, even when tap is on and fuel is in tank.

Test for spark by holding sparking plug body on cylinder head.

If still no spark: Test for spark at end of H.T. lead held 1" from cylinder fins.

No fuel reaching carburetter, air lock in petrol pipe.

Choked petrol pipe, filter on tap, filter in banjo. Fuel needle sticking in seating.

Possible Touble.

Leak along insulation of plug or high tension lead.

Plug points may be oily or sooted up. If no spark at end of H.T. lead, contact breaker point gap may be too narrow or points pitted or dirty or oily. Moisture on insulation of condenser box.

High tension pick-up not making good contact on ignition coil due to corrosion or misplacement.

Cracked insulation of adjustable contact breaker point.

Damaged insulating sleeving on wires connecting contact breaker to coil or condenser.

Faulty connection to low tension wire of ignition coil.

Faulty condenser. Faulty ignition coil.

Mixture may be too rich due to use of strangler, or incorrect setting of taper needle.

Remedy.

Turn tap to ON, refill tank, clear air vent in filler cap. Turn on reserve tap where fitted.

Remove and clean out. Dismantle carburetter and fit new needle.

Try a new plug of the type recommended and/or new H.T. lead.

Clean plug or fit new one. Adjust point gap to .105" Clean.

Clean and dry out.

Clean and correct.

Renew.

Replace with new sleeving.

Correct. Replace. Replace.

Open throttle wide and depress kickstarter several times to clear engine of petroil mixture, adjust taper needle, drain crankcase.

If above tests are O.K. but engine will not start.

Strangler may not be fully open or taper needle in the "RICH" position. Air filter where fitted may need cleaning.

Check by watching for excessive smoke from exhaust pipe or silencers.

Air leaks at carburetter stub or manifold joint, causing weak mixture. Incorrect ignition timing due to flywheel having slipped on driving shaft taper.

ENGINE FOUR OR EIGHT STROKES

Mixture too rich.

Engine may four stroke for a little while after standing due to accumulation of oil in crankcase.

Flooding of carburetter.

ENGINE LACKS POWER

Engine out of tune, bearings worn. Unsuitable sparking plug. Loss of compression.
Incorrect "Petroil" mixture.

Excessive carbon deposit on piston crown, and cylinder head.

Exhaust system choked with carbon.

Incorrect carburetter setting.

Air cleaner choked.

Obstruction in fuel supply.

Incorrect ignition timing.

Brakes binding.

Driving chains too tight.

ENGINE WILL NOT RUN SLOWLY

Weak mixture due to air leaks at carburetter stub or manifold joint, crankcase and cylinder base joints.

Crankcase drain screw loose or missing.

Worn crankshaft bearing or leaking compression gland.

Ignition timing too far advanced.

ENGINE SUDDENLY STOPS FIRING

Sparking plug lead detached.

Plug points bridged by oil, carbon, or deposit caused by use of leaded petrol.

Short circuit of high tension current by water on H.T. lead.

Correct.

Check, following instructions given for respective type of engine.

Lower taper needle by moving to "WEAK" position. Lower needle by adjuster screw fitted in throttle.

Usually ceases when engine has been running for a few minutes unless too much oil has been mixed with the petrol.

Persistent flooding is usually due to dirt under fuel needle seating, or sticking fuel needle, or damaged

seating or punctured float.

Overhaul. Replace with recommended type. Tighten cylinder head bolts. Renew piston rings. Correct mixture is I part oil, 16 parts petrol. Decarbonize.
Clean out silencer and exhaust pipes.
Check with setting chart.
Wash in petrol, drain and dip in thin oil.
Clean out tap, fuel pipe and filters.
Check against timing chart.
Adjust.
Adjust.

Tighten all joints.

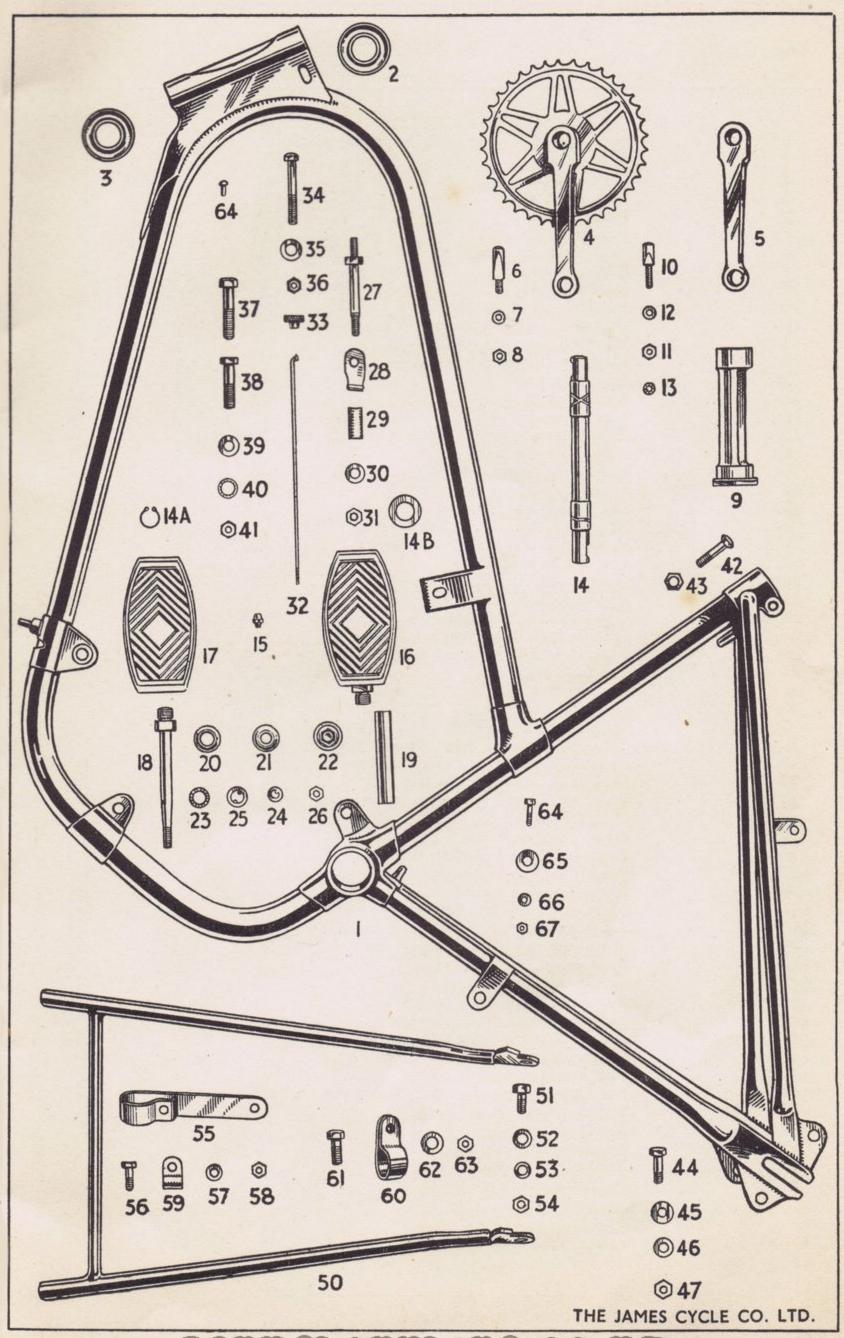
Tighten or replace. Replace.

Correct.

Replace and tighten nut. Clean or replace. Dry out.

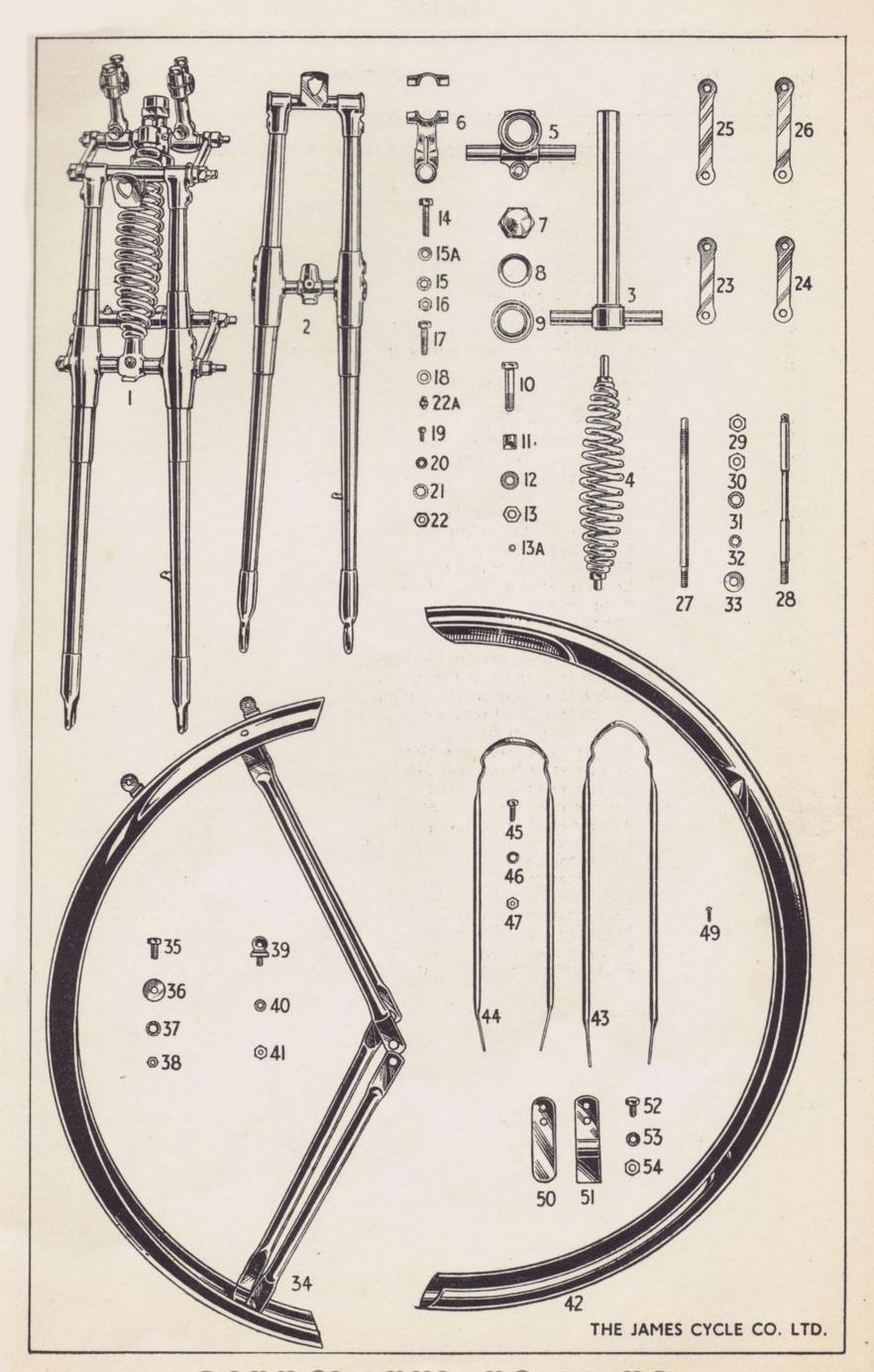
SPARES LIST FOR SUPERLUX AUTOCYCLE PLATE I.

lus. No.	Part No.	DESCRIPTION	Sellin Price
		FRAME, STAND and PEDALS	
1		Frame complete	
2 3		Top Frame race	
		Bottom Frame race	
4		Chain wheel and crank	
5		Crank, left hand	
6 7		Crank cotter	
		Crank cotter washer	
8 9		Bracket eccentric	- 7
10		Bracket cotter (driving side)	1
11		Crank cotter nut	
12		Crank cotter washer (plain)	
13		Crank cotter washer (shakeproof)	
14 14A		Bracket, axle	
14B		Bottom bracket circlip	
5		Grease nipple	
6		Pedals (pair)	1
7		Pedals, rubber	
8		Pedals, spindle	
9		Pedals, centre tube	
20		Pedals, cup, inner	
21		Pedals, cup, outer	
3		Pedals, ball cage	
4		Pedals, cone peg washer	
25		Pedals, cone	
6		Pedals, cone, spindle nut	
7		Rear tank fix bolt and strangler rod	
8		Choke rod clip	
9		Distance collar	
0		Shake proof washer	
2		Chake red	-
3		Choke rod knurled nut	Market 1
4		Front pin, tank fixing	
5		Washer, tank fixing	1
6		Nut, tank fixing	1
7		Pin, engine fixing, long	
8 9		Pin, engine fixing, short	
ó		Washer, plain	
ĭ		Nut, engine fixing	
2		Seat bolt	
3		Seat nut	
4		Pin, carrier fixing	
5		Washer (large) carrier fixing	
6		Washer (small) carrier fixing	
7		Nut, carrier fixing	
i		Pin, rear stand fixing	
2		Washer, rear stand fixing (shakeproof)	W. T. S.
3		Washer, rear stand fixing (plain)	
4		Nut, rear stand fixing	
5		Tailpipe attachment bracket	
6		Pins, tailpipe fixing	
7 8		Washer, tailpipe fixing	7
9		Bracket, rear brake cable fixing	15015
ó		Rear brake anchor clip	
1		Pin, rear brake anchor plate	
2		Washer, rear brake anchor plate	
3		Nut, rear brake anchor plate	
4		Pin, toolbox fixing	
5		Washer (large) toolbox fixing	
		Washer (small) toolbox fixing	



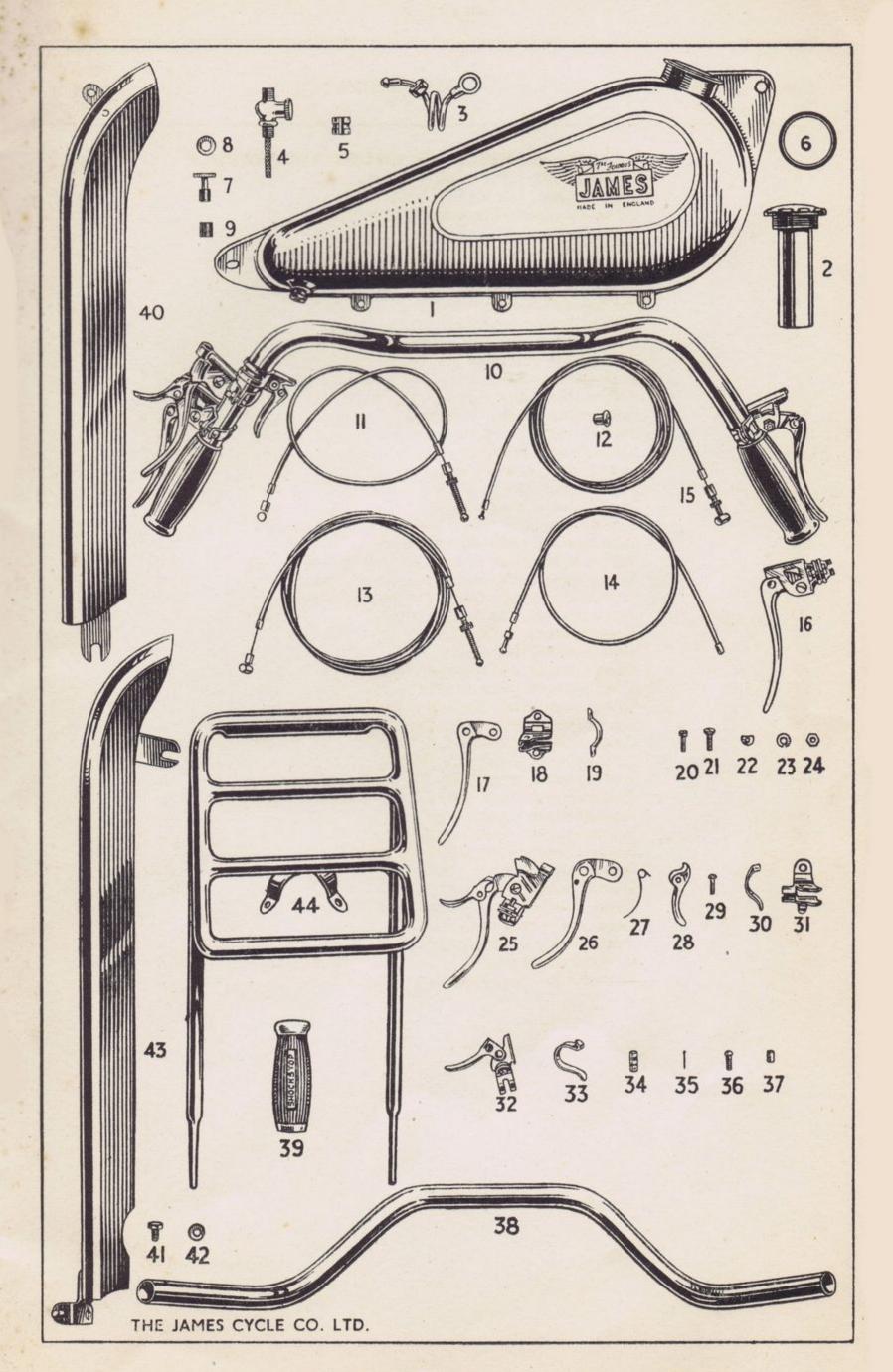
SPARES LIST FOR SUPERLUX AUTOCYCLE PLATE 2.

lus. No.	Part No.	DESCRIPTION	Nett Selling Price
		FORK & MUDGUARDS	
1		Fork, complete (including handlebar clips)	
2		Fork girder	TOW THE T
3		Fork column	
4 5		Fork springs	
5 6 7		Handlebar clip	
7		Head lock nut	
8	1	Distance rings	
		Headclip race	
10		Headclip clamping bolt	
12		Headclip clamping piece	
13		Headclip clamping nut	
13A		Head bearings	
4		Handlebar clip pin	
15		Handlebar clip washer (shake proof)	
15A		Handlebar clip washer (plain)	
7		Handlebar clamp pin	
8		Handlebar clamp washer	
9		Pin, brake cable fixing	
20		Washer (small) brake cable fixing	
21		Washer (large) brake cable fixing	
22A		Grease nipple	
23		Top fork link (fixed)	
24		Top fork link, (adjusting)	
2.5		Bottom fork link (fixed)	
26		Bottom fork link (adjusting)	
27		Top fork shaft	
29		Fork shaft nut, large	
10		Fork shaft nut, small	
1		Fork shaft washer, (shakeproof) large	
12		Fork shaft washer, (shakeproof) small	
4		Fork shaft washer, (knurled) Front mudguard (complete with stays, number plate fixing	
		lugs)	
5		Front mudguard pin	
16		Front mudguard washer, large	
8		Front mudguard washer, small	
19		Front mudguard nut	
10		Front number plate fixing clip washer	
11		Front number plate fixing clip nut	
2		Rear mudguard, with stays	
3		Rear mudguard rear stays	
15		Rear mudguard front stays	
16		Rear mudguard front stay washer	
7		Rear mudguard front stay nut	
8		Rear mudguard cable cover	
9		Rear mudguard cable cover fixing pin Striking plate (rear stand)	
2000		Retaining clip	The same of
2	- W	Retaining clip pin	A STATE OF
3		Retaining clip washer	1 300
14		Retaining clip nut	
			4
			1
10000			



SPARES LIST FOR SUPERLUX AUTOCYCLE PLATE 3.

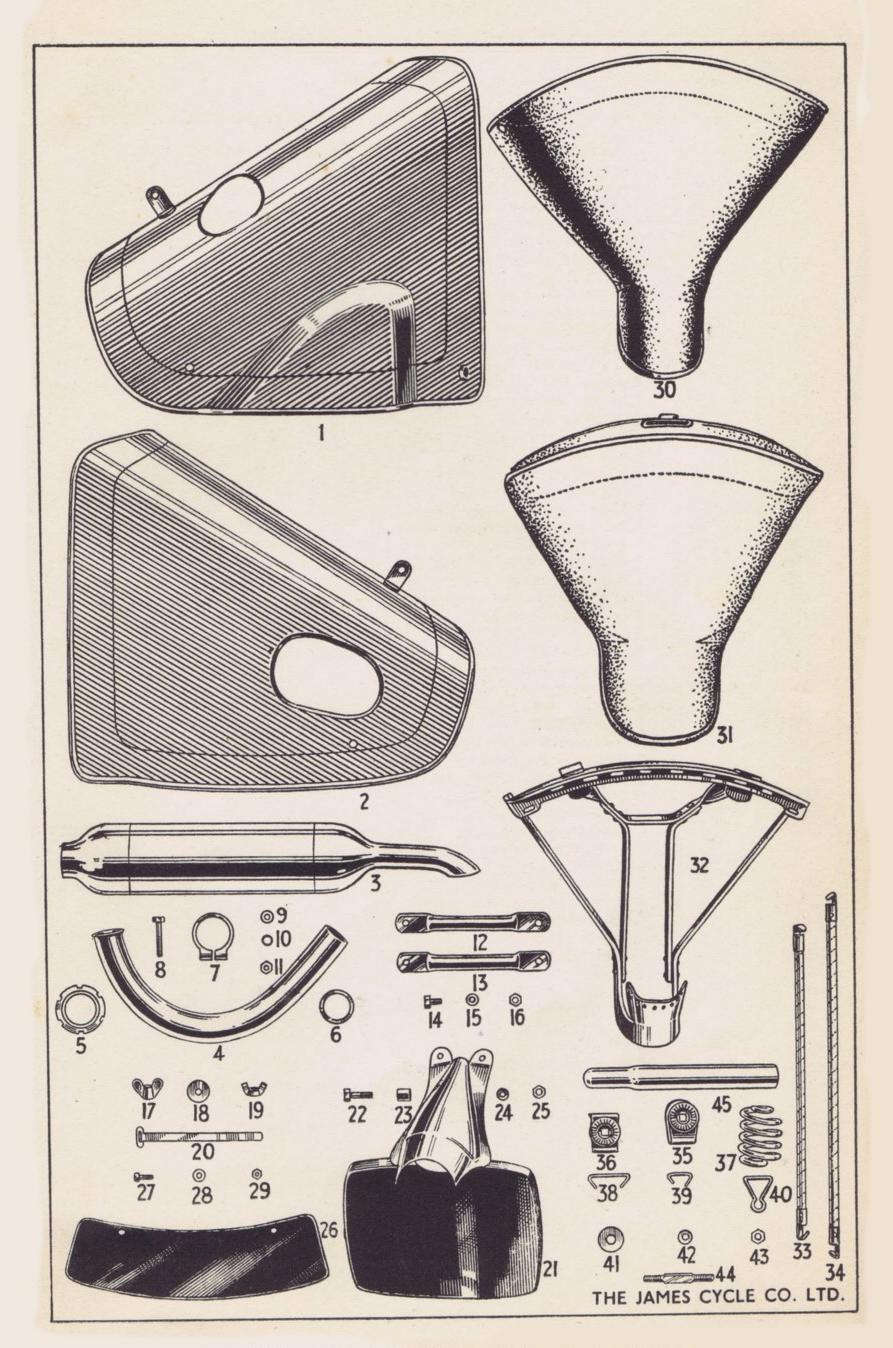
TANK, HANDLEBAR, CHAIN COVER AND CARRIER Petrol tank Filler cap, complete with messure Petrol pipe Petrol tap Cable clip Petrol tap plunger Petrol tap plunger Petrol tap plunger Petrol tap cork Handlebar, complete with grips and levers Front brake cable Cable barrel nipple Rear brake cable Clutch control cable Brake lever, complete Brake lever, nolly Brake lever, half saddle clip pin Brake lever, half saddle clip pin Brake lever pivot pin, nut Brake lever pivot pin, split washer Pivot pin nut Clutch lever complete Clutch trigger, control lever Clutch lever, complete Clutch lever, andf saddle clip pin Clutch trigger, control lever Clutch lever, andf saddle clip pin Clutch lever, andf saddle clip pin Clutch lever, andf saddle clip pin Clutch lever, complete Clutch lever, half saddle clip pin Clutch lever, complete Clutch lever, half saddle clip pin Clutch lever, pivot pin nut Handlebar bend Handlebar bend Handlebar grips Pedal chain cover Pedal chain cover washer Driv ing chain cover Rear carrier, less pins, nuts and washers	lus. No.	Part No.	DESCRIPTION	Nett Sellin Price
Petrol tank Filler cap, complete with messure Petrol pipe Petrol tap Cable clip Petrol cap washer Petrol tap plunger Petrol tap plunger Petrol tap plunger Petrol tap fibre washer Petrol tap cork Handlebar, complete with grips and levers Front brake cable Cable barrel nipple Rear brake cable Clutch control cable Brake lever, complete Brake lever, saddle Brake lever, saddle Brake lever, half saddle clip pin Brake lever pivot pin, nut Brake lever pivot pin, nut Brake lever pivot pin, split washer Pivot pin nut Clutch lever, half saddle clip pin Clutch trigger, control lever spring Clutch trigger, control lever Clutch lever, half saddle clip Clutch lever, half saddle clip pin Clutch lever, half saddle clip pin Clutch lever, saddle Release valve lever, complete Release valve lever, pivot Release valve lever, pivot Release valve lever, pivot Release valve lever, pivot Release valve lever, fixing pin Release valve lever, fixing pin Release valve lever, pivot pin nut Handlebar bend Handlebar grips Pedal chain cover Pedal chain cover washer Driv ing chain cover				
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Petrol tap Cable clip Petrol cap washer Petrol tap plunger Petrol tap plunger Petrol tap fibre washer Petrol tap cork Handlebar, complete with grips and levers Front brake cable Cable barrel nipple Rear brake cable Release valve cable Clutch control cable Brake lever, complete Brake lever, only Brake lever, saddle Brake lever, half saddle clip Brake lever, half saddle clip brake lever, pivot pin Brake lever pivot pin, nut Brake lever pivot pin, split washer Pivot pin nut Clutch lever complete Clutch lever, complete Clutch lever, half saddle clip pin Clutch trigger, control lever spring Clutch trigger, control lever Clutch lever, half saddle clip pin	2 3			
Petrol cap washer Petrol tap plunger Petrol tap fibre washer Petrol tap cork Handlebar, complete with grips and levers Front brake cable Cable barrel nipple Rear brake cable Clutch control cable Brake lever, complete Brake lever, only Brake lever, saddle Brake lever, half saddle clip Brake lever, pivot pin Brake lever pivot pin, nut Brake lever pivot pin, split washer Pivot pin nut Clutch lever, complete Clutch trigger control lever spring Clutch trigger, control lever spring Clutch lever, half saddle clip Clutch lever, half saddle clip pin Clutch lever, half saddle clip Clutch lever, half saddle clip Clutch lever, half saddle clip Release valve lever, pivot Release valve lever, pivot Release valve lever, pivot Release valve lever, pivot pin nut Handlebar bend Handlebar grips Pedal chain cover Pedal chain cover Pedal chain cover washer Driv ing chain cover	5 6 7		Petrol tap	
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Petrol tap fibre washer Petrol tap cork Handlebar, complete with grips and levers Front brake cable Cable barrel nipple Rear brake cable Release valve cable Clutch control cable Brake lever, complete Brake lever, saddle Brake lever, half saddle clip Brake lever, half saddle clip pin Brake lever pivot pin Brake lever pivot pin, split washer Pivot pin nut Clutch lever, complete Clutch lever, only Clutch trigger, control lever spring Clutch trigger, control lever Clutch lever, half saddle clip Clutch lever, half saddle clip pin Clutch lever, half saddle clip Clutch lever, half siddle clip Clutch lever, half clip Release valve lever, complete Release valve lever, pivot Release valve lever, pivot Release valve lever, pivot pin nut Handlebar bend Handlebar bend Handlebar grips Pedal chain cover washer Driv ing chain cover	6			
Petrol tap cork Handlebar, complete with grips and levers Front brake cable Cable barrel nipple Rear brake cable Release valve cable Clutch control cable Brake lever, complete Brake lever, saddle Brake lever, half saddle clip Brake lever, half saddle clip pin Brake lever, pivot pin Brake lever pivot pin, split washer Pivot pin nut Clutch lever, complete Clutch lever, complete Clutch lever, saddle clip pin Clutch trigger, control lever spring Clutch trigger, control lever Clutch lever, half saddle clip pin Clutch lever, half saddle clip Release valve lever, complete Release valve lever, complete Release valve lever, pivot Release valve lever, pivot Release valve lever, pivot Release valve lever, pivot pin nut Handlebar bend Handlebar grips Pedal chain cover Pedal chain cover washer Driv ing chain cover	0		Petrol tap fibre weeker	
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Clutch control cable Brake lever, complete Brake lever, saddle Brake lever, saddle Brake lever, half saddle clip Brake lever, half saddle clip pin Brake lever, pivot pin Brake lever pivot pin, nut Brake lever pivot pin, split washer Pivot pin nut Clutch lever, complete Clutch lever, complete Clutch trigger, control lever spring Clutch trigger control lever Clutch lever, half saddle clip pin Clutch lever, half saddle clip Clutch lever, saddle Release valve lever, complete Release valve lever, pivot Release valve lever, fixing pin Release valve lever, pivot pin nut Handlebar bend Handlebar grips Pedal chain cover Pedal chain cover washer Driv ing chain cover	13		Pear brake cable	
Brake lever, complete Brake lever, saddle Brake lever, half saddle clip Brake lever, half saddle clip in Brake lever, half saddle clip pin Brake lever pivot pin in i	14			
Brake lever, saddle Brake lever, half saddle clip Brake lever, half saddle clip pin Brake lever, pivot pin Brake lever pivot pin, nut Brake lever pivot pin, split washer Pivot pin nut Clutch lever, complete Clutch lever only Clutch trigger, control lever spring Clutch trigger control lever Clutch lever, half saddle clip pin Clutch lever, half saddle clip Clutch lever, spring Clutch lever, half saddle clip Clutch lever, half saddle clip Clutch lever, half saddle clip Clutch lever, complete Release valve lever, complete Release valve lever, half clip Release valve lever, pivot Release valve lever, pivot Release valve lever, fixing pin Release valve lever, pivot pin nut Handlebar bend Handlebar grips Pedal chain cover Pedal chain cover washer Driv ing chain cover	15			
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Brake lever, half saddle clip pin Brake lever, pivot pin Brake lever pivot pin, nut Brake lever pivot pin, nut Brake lever pivot pin, split washer Pivot pin nut Clutch lever, complete Clutch lever only Clutch trigger, control lever spring Clutch trigger control lever Clutch lever, half saddle clip pin Clutch lever, half saddle clip Clutch lever saddle Release valve lever, complete Release valve lever, half clip Release valve lever, pivot Release valve lever, fixing pin Release valve lever, pivot pin nut Handlebar bend Handlebar grips Pedal chain cover Pedal chain cover washer Driv ing chain cover	18		Brake lever, only	
Brake lever, half saddle clip pin Brake lever, pivot pin	9			
Brake lever, pivot pin Brake lever pivot pin, nut Brake lever pivot pin, split washer Pivot pin nut Clutch lever, complete Clutch lever only Clutch trigger, control lever spring Clutch trigger control lever Clutch lever, half saddle clip pin Clutch lever, half saddle clip Clutch lever saddle Release valve lever, complete Release valve lever, half clip Release valve lever, pivot Release valve lever, cotter Release valve lever, fixing pin Release valve lever, pivot pin nut Handlebar bend Handlebar grips Pedal chain cover Pedal chain cover washer Driv ing chain cover	20			
Brake lever pivot pin, nut Brake lever pivot pin, split washer Pivot pin nut Clutch lever, complete Clutch lever only Clutch trigger, control lever spring Clutch trigger control lever Clutch lever, half saddle clip pin Clutch lever, half saddle clip Clutch lever saddle Release valve lever, complete Release valve lever, half clip Release valve lever, pivot Release valve lever, fixing pin Release valve lever, fixing pin Release valve lever, pivot pin nut Handlebar bend Handlebar grips Pedal chain cover Pedal chain cover washer Driv ing chain cover	21			
Pivot pin nut Clutch lever, complete Clutch lever only Clutch trigger, control lever spring Clutch trigger control lever Clutch lever, half saddle clip pin Clutch lever, half saddle clip Clutch lever saddle Release valve lever, complete Release valve lever, half clip Release valve lever, pivot Release valve lever, fixing pin Release valve lever, pivot pin nut Handlebar bend Handlebar grips Pedal chain cover Pedal chain cover washer Driv ing chain cover	22			
Clutch lever, complete Clutch lever only Clutch trigger, control lever spring Clutch trigger control lever Clutch lever, half saddle clip pin Clutch lever saddle Clutch lever saddle Release valve lever, complete Release valve lever, half clip Release valve lever, pivot Release valve lever, cotter Release valve lever, fixing pin Release valve lever, pivot pin nut Handlebar bend Handlebar grips Pedal chain cover pin Pedal chain cover washer Driv ing chain cover	23			
Clutch lever only Clutch trigger, control lever spring Clutch trigger control lever Clutch lever, half saddle clip pin Clutch lever, half saddle clip Clutch lever saddle Release valve lever, complete Release valve lever, half clip Release valve lever, pivot Release valve lever, cotter Release valve lever, fixing pin Release valve lever, pivot pin nut Handlebar bend Handlebar grips Pedal chain cover Pedal chain cover washer Driv ing chain cover	24			
Clutch trigger, control lever spring Clutch trigger control lever Clutch lever, half saddle clip pin Clutch lever, half saddle clip Clutch lever saddle Release valve lever, complete Release valve lever, half clip Release valve lever, pivot Release valve lever, cotter Release valve lever, fixing pin Release valve lever, pivot pin nut Handlebar bend Handlebar grips Pedal chain cover Pedal chain cover pin Pedal chain cover washer Driv ing chain cover	25			
Clutch trigger control lever Clutch lever, half saddle clip pin Clutch lever, half saddle clip Clutch lever saddle Release valve lever, complete Release valve lever, half clip Release valve lever, pivot Release valve lever, cotter Release valve lever, fixing pin Release valve lever, pivot pin nut Handlebar bend Handlebar grips Pedal chain cover Pedal chain cover pin Pedal chain cover washer Driv ing chain cover	26			
Clutch lever, half saddle clip pin Clutch lever, half saddle clip Clutch lever saddle Release valve lever, complete Release valve lever, half clip Release valve lever, pivot Release valve lever, cotter Release valve lever, fixing pin Release valve lever, pivot pin nut Handlebar bend Handlebar grips Pedal chain cover Pedal chain cover pin Pedal chain cover washer Driv ing chain cover	28			
Clutch lever, half saddle clip Clutch lever saddle Release valve lever, complete Release valve lever, half clip Release valve lever, pivot Release valve lever, cotter Release valve lever, fixing pin Release valve lever, pivot pin nut Handlebar bend Handlebar grips Pedal chain cover Pedal chain cover pin Pedal chain cover washer Driv ing chain cover	29			
Clutch lever saddle Release valve lever, complete Release valve lever, half clip Release valve lever, pivot Release valve lever, cotter Release valve lever, fixing pin Release valve lever, pivot pin nut Handlebar bend Handlebar grips Pedal chain cover Pedal chain cover pin Pedal chain cover washer Driv ing chain cover	30			
Release valve lever, half clip Release valve lever, pivot Release valve lever, cotter Release valve lever, fixing pin Release valve lever, pivot pin nut Handlebar bend Handlebar grips Pedal chain cover Pedal chain cover pin Pedal chain cover washer Driv ing chain cover	31		Clutch lover saddle	
Release valve lever, pivot Release valve lever, cotter Release valve lever, fixing pin Release valve lever, pivot pin nut Handlebar bend Handlebar grips Pedal chain cover Pedal chain cover pin Pedal chain cover washer Driv ing chain cover	32			
Release valve lever, cotter Release valve lever, fixing pin Release valve lever, pivot pin nut Handlebar bend Handlebar grips pair Pedal chain cover Pedal chain cover pin Pedal chain cover washer Driv ing chain cover				
Release valve lever, fixing pin			Release valve lever, pivot	
Release valve lever, pivot pin nut Handlebar bend Handlebar grips Pedal chain cover Pedal chain cover pin Pedal chain cover washer Driv ing chain cover				
Handlebar bend Handlebar grips Pedal chain cover Pedal chain cover pin Pedal chain cover washer Driv ing chain cover			Release valve lever, nivot pin nut	
Handlebar grips pair Pedal chain cover Pedal chain cover pin Pedal chain cover washer Driv ing chain cover	88		Handlebar bend	
Pedal chain cover	39		Handlebar grips pair	
Pedal chain cover washer			Pedal chain cover	
Driv ing chain cover			Pedal chain cover pin	
Real Carrier, less pins, nucs and washers				
			Real Carrier, less pins, nuts and washers	
	33 34 35 36 37		Release valve lever, half clip Release valve lever, pivot Release valve lever, cotter Release valve lever, fixing pin Release valve lever, pivot pin nut Handlebar bend Handlebar grips Pedal chain cover Pedal chain cover pin Pedal chain cover washer Driv ing chain cover	



SPARES LIST FOR SUPERLUX AUTOCYCLE PLATE 4.

ENGINE SHIELD, SILENCER AND SADDLE Engine shield, right hand Exhaust silencer, complete Exhaust pipe Exhaust pipe nut Exhaust pipe nut Exhaust pipe clip Exhaust pipe clip masher Exhaust pipe clip washer, large Exhaust pipe clip washer, small Exhaust pipe clip nut Exhaust pipe clip washer, small Exhaust pipe clip nut Exhaust pipe clip n	llus. No.	Part No.	DESC	CRIPTIO	N				Nett Selling Price
Engine shield, right hand			ENGINE SHIELD, S	ILENCE	RAN	D SA	DDL	E	
Exhaust pipe	1		Engine shield, right hand						
Exhaust pipe nut Exhaust pipe washer Fxhaust pipe clip Exhaust pipe clip Exhaust pipe clip washer, large Exhaust pipe clip washer, small Exhaust pipe clip washer, small Exhaust pipe clip washer, small Exhaust pipe clip nut Exhaust pipe clip nut Engine shield fixing strap, left hand Engine shield fixing strap pin Engine shield fixing strap pin Engine shield fixing strap washer Engine shield fixing strap nut Engine shield fixing strap nut Engine wing nut ½ Engine shield large washer Engine shield wing nut, ½ Cable strap Cable strap Rear number plate fixing pin (mudguard fixing) Rear number plate fixing pin (mudguard fixing) Rear number plate fixing pin washer Rear number plate fixing pin nut Front number plate pin Front number plate nut Saddle complete Saddle complete Saddle spring, short Saddle spring, short Saddle spring, long Saddle clamp, outer Saddle clamp, outer Saddle clamp, outer Saddle clamp pouter Saddle clamp washer, large Saddle clamp washer, small Saddle clamp washer, small Saddle clamp washer, small Saddle clamp washer, small Saddle clamp pin nut Saddle clamp bott	2								
Exhaust pipe nut Exhaust pipe washer Fxhaust pipe clip Exhaust pipe clip Exhaust pipe clip washer, large Exhaust pipe clip washer, small Exhaust pipe clip washer, small Exhaust pipe clip nut Engine shield fixing strap, left hand Engine shield fixing strap pin Engine shield fixing strap pin Engine shield fixing strap washer Engine shield fixing strap nut Engine wing nut ½ Engine shield fixing strap nut Engine shield fixing strap nut Engine shield fixing strap nut Engine shield wing nut, ½ Engine shield wing wing wing wing wing wing wing wing	3								
6 Exhaust pipe washer 7 Exhaust pipe clip 8 Exhaust pipe clip washer, large 10 Exhaust pipe clip washer, small 11 Exhaust pipe clip nut 12 Engine shield fixing strap, left hand 13 Engine shield fixing strap, right hand 14 Engine shield fixing strap pin 15 Engine shield fixing strap washer 16 Engine shield fixing strap washer 17 Engine shield, large washer 19 Engine shield, large washer 19 Engine shield wing nut, ½ 20 Cable strap 21 Rear number plate fixing pins (mudguard fixing) 22 Rear number plate fixing pin, fibre washer 22 Rear number plate fixing pin washer 24 Rear number plate fixing pin masher 25 Rear number plate pixing pin nut 26 Front number plate pin 27 Front number plate pin 28 Front number plate pin 30 Saddle top 31 Saddle spring, short									
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Engine shield fixing strap nut Engine wing nut % Engine wing nut % Engine shield, large washer Engine shield wing nut, %			Engine shield fixing strap p	in					
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38 Spring clip, long			Saddle clamp, outer						
39 Spring clip, short									
40 Saddlebag clip <									
41 Saddle clamp washer, large <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>•••</td> <td></td> <td></td>							•••		
42 Saddle clamp washer, small <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
Saddle clamp pin nut									
Saddle clamp bolt									
ALL CONTRACTOR OF THE PROPERTY									
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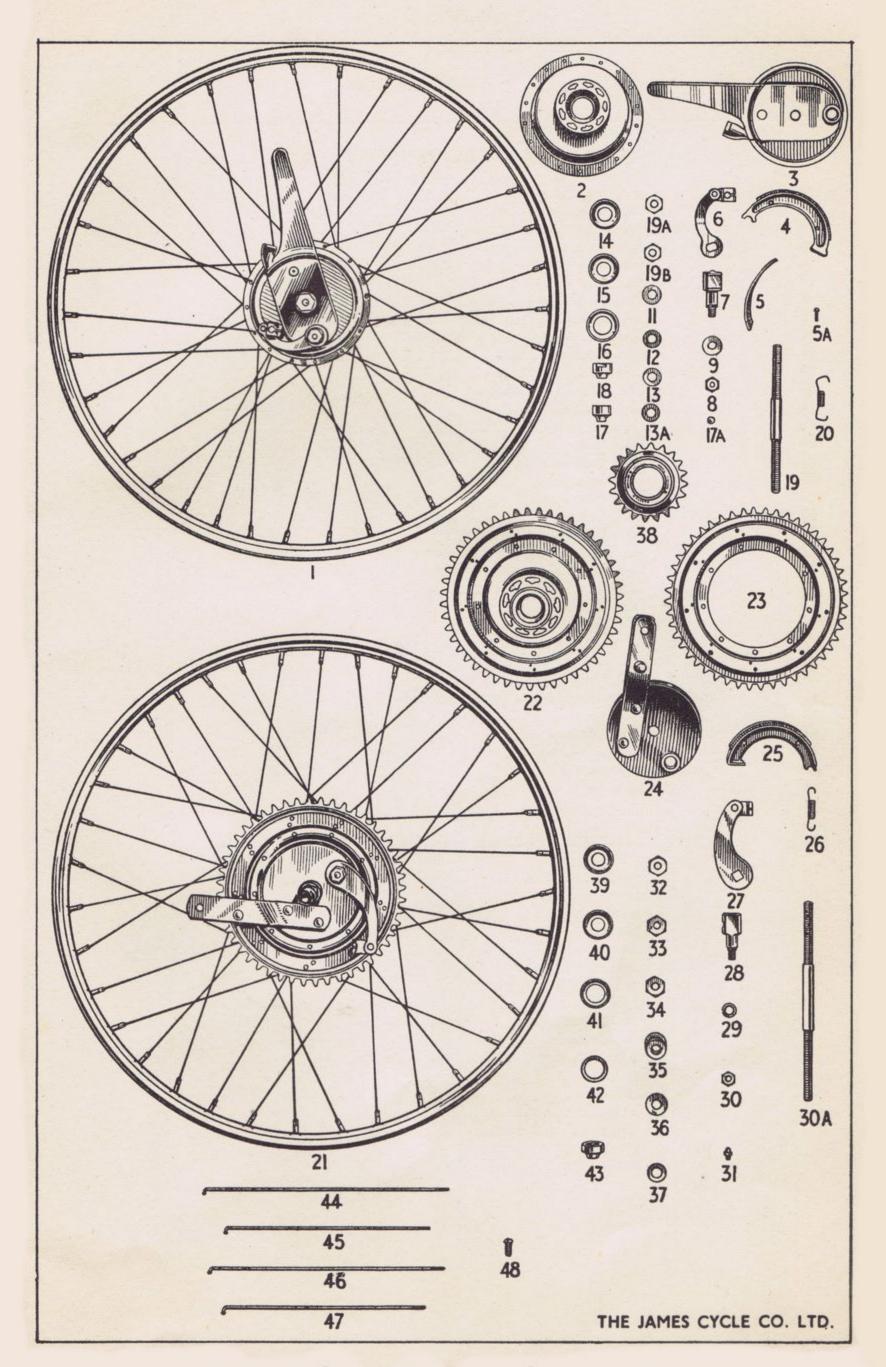


BEPNSTOPMAPS-CO-NZ

SPARES LIST FOR SUPERLUX AUTOCYCLE PLATE 5.

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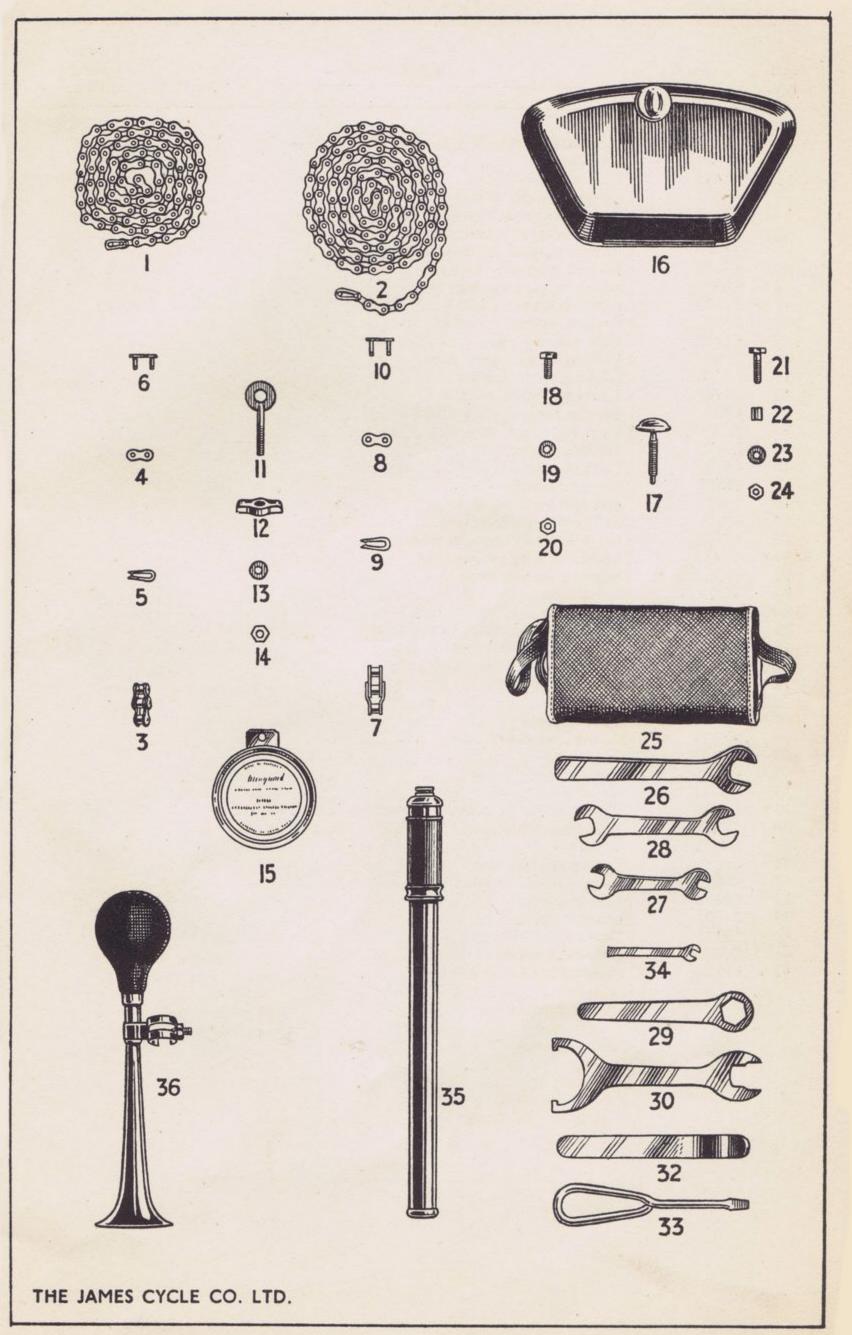
BEPRSTOPMOPS.CO.NZ



SPARES LIST FOR SUPERLUX AUTOCYCLE PLATE 6.

s. Part No.		DESCR	IPTIC	N			Nett Selling Price
	CHAINS AND	FAUIP	MEN	IT			
	Pedal chain						
2	Driving chain						
	Half link (pedal chain						
	Inner link (pedal chai				•••	•••	
	Spring fastener (peda					•••	
	Connecting link (ped: Half link (driving chair	in)					
3	Inner link (driving ch						
	Spring fastener (drivi	ng chain)				
	Connecting link (driv		n)				
	Chain adjuster eye		•••				
	Chain adjuster cap Chain adjuster washe						
	Chain adjuster nut						
	Licence holder						
	Tool box						
	Tool box button						
	Tool box pin						
	Tool box washer						
	Tool box nut		•••				
	Tool box fixing pin, la Tool box fixing pin di		iece				
	Too I box fixing pin w	asher					
	Tool box fixing pin nu	ıt					
	Tool wallet						
	7 spanner						
	3 spanner						
	3" spanner						
	Plug spanner Exhaust pipe and con-	e spanne	r		•••		
	Tyre lever						
	Screw driver						
	Magneto spanner						
	Tyre pump					•••	
	Bulb horn						
		DIVIE ot illusti			ER P	EDAL	
	Pedal, complete						
	Spring clip						
	Pedal frame Spindle			• • • • • • • • • • • • • • • • • • • •			
	Cone						
	Locknut for cone						
	Lock washer for cone						
	Pedal rod						
	Washer for rod		•••				
	Nut for rod		•••	•••	•••	•••	
	Distance piece Rubber		•••				
	Dust cap		***	•••			
	I set \(\frac{1}{8}\)" dia. balls.						
	I set 5/32" dia. balls.						
	I set 5/32" dia. balls.		•••				

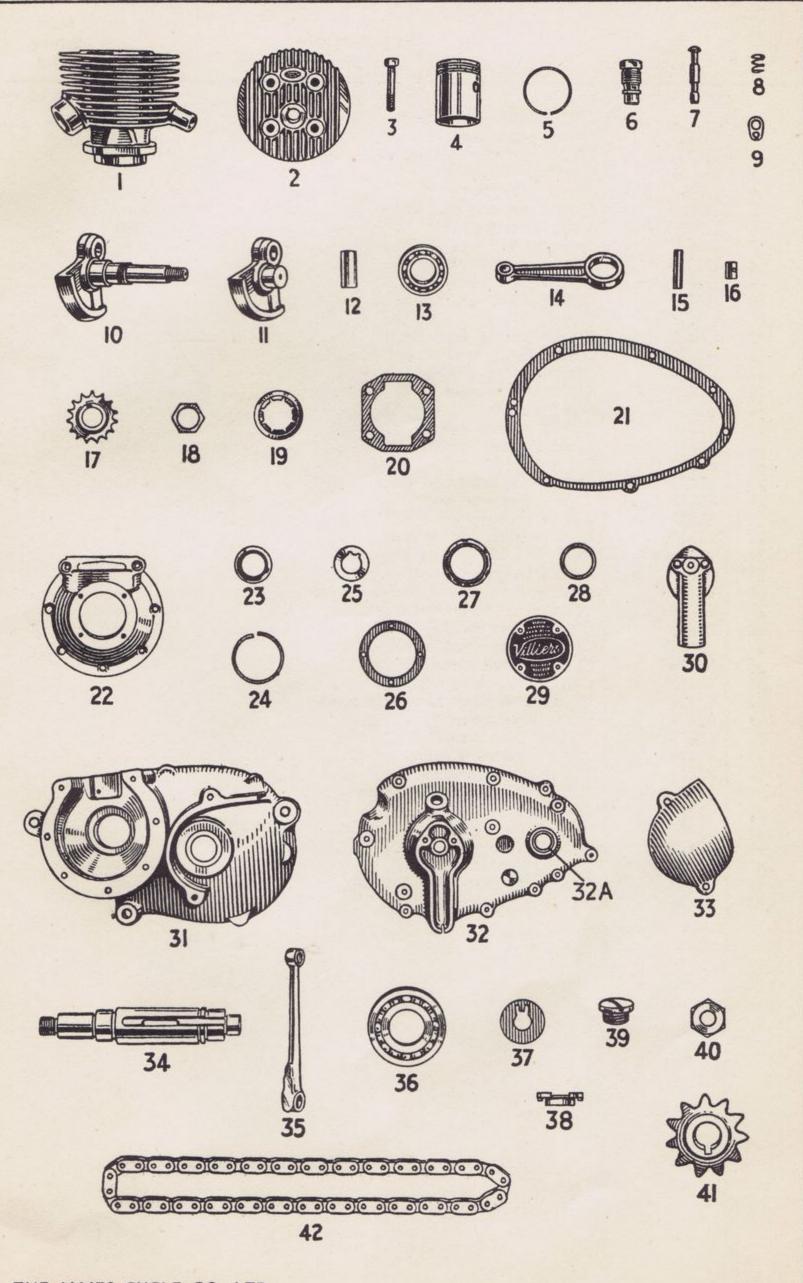
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SPARES LIST FOR SUPERLUX AUTOCYCLE PLATE 7

Illus. No.	Part No.	DESCR	RIPTIC	N	,			Nett Selling Price
		ENGINE						
1	B7261/2	Cylinder						
2	B7455	Cylinder Head						
4	E3907	Cylinder head bolt						
5	C7045 E6141	Piston, bushed, standard size Piston, ring, standard size						
	E7516	Piston, ring, .015" oversize						
	E7518	Piston, ring, .03" oversize						
6	E3064	Body, release valve						
7	E1280	Stem, release valve						
8 9	E1163 E1276	Spring, release valve Nut, release vlave						
10	D7266	Driving shaft, right hand						
ii	D7267	Driving shaft, left hand						
12	E7493	Crankpin, .001" oversize						
13	6205	Ball bearing, driving shaft						
14	D7494	Con. rod, .001" oversize						
15	E7198	Gudgeon pin						
17	E6192 E6725	Gudgeon pin, small end bush Engine sprocket		•••			***	
18	E6930	Engine sprocket, nut						
19	E6221	Crankcase gland spring						
20	E7168	Joint washer, cylinder base						
21	C7417	Clutch cover, washer						
22 23	B7262	Crankcase, left hand						
24	E6724/1 E7189	Crankcase, left bush Crankcase bearing circlip						
25	E7197	Crankcase, bearing, lock was						
26	E7276	Lock washer end plate						
27	E3934	Nut, exhaust pipe						
28	E4453	Washer for nut						
29 30	E7275 D7410	End plate	•••					
31	A7408	Clutch bridge Crank and clutchcase						
32	A7409	Clutch cover						
32A	E7385	Clutch cover bush						
33	D7413	Chain cover						
33A 34	E3222	Clutch cover bolt and drain s		not ill	ustrate			
35	C7411/1 D7412	Clutch shaft			•••			
36	6204	Clutch shaft, ball bearing						
37	D6125	Clutch shaft, lockwasher						
38	E4944	Clutch cotter						
39	E4104	Oil filler plug				•••		
40	E3931 D7415	Drive sprocket nut Drive sprocket, II teeth						
42	110037	Primary chain, 54 pitches						

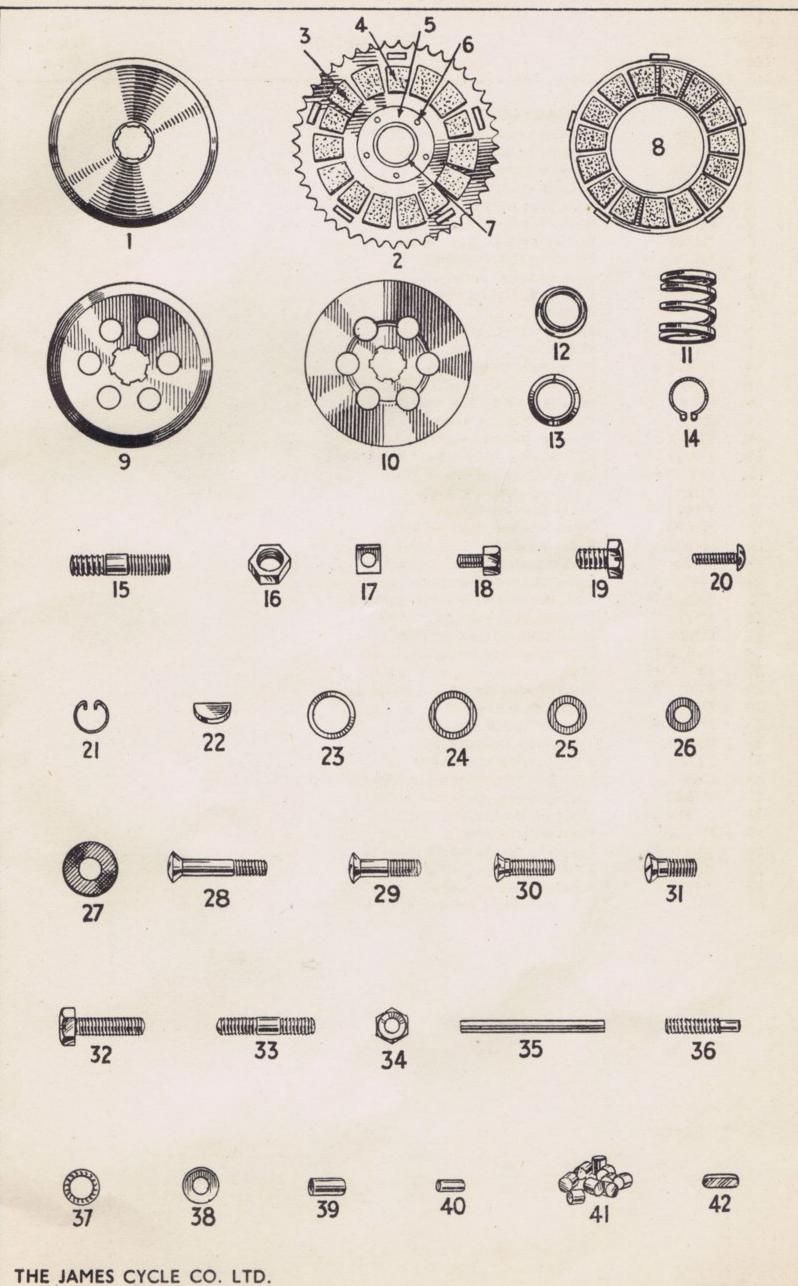
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THE JAMES CYCLE CO. LTD.

SPARES LIST FOR SUPERLUX AUTOCYCLE PLATE 8

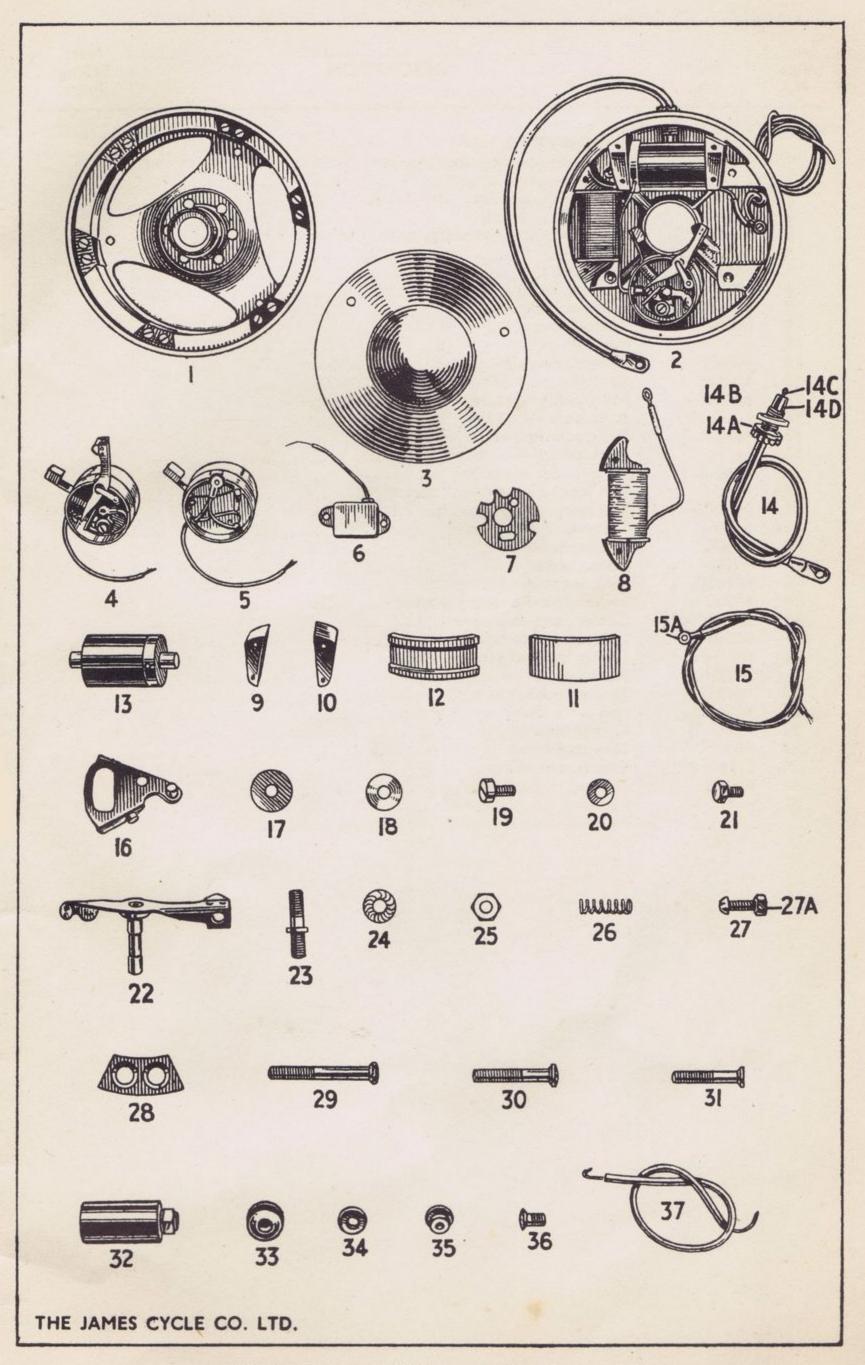
Illus. No.	Part No.	DESCRIPTION	Nett Selling Price
	17	ENGINE—Continued	
1	D5433	Clutch plate, outer	
2	D5232	Clutch sprocket, assembly	
3	E5220	Clutch cork, small	
4 5	E4960 E4955	Clutch cork, large	
6	E5001	Rivet for side plate set	
7	E4948	Sprocket ball race	
8	D5233	Clutch plate, corked	
9	D4951	Clutch plate, outer	
10	D4954	Clutch plate, centre, dished	
11	E5558/I E7608	Clutch spring	
13	E5556	Clutch spring bush, long	
14	E7454	Clutch spring, circlip	
15	E36e3	Cylinder base stud	
16	E3961	Nut for stud	
17	E1545	Clamp, release valve	1.4
18	E6737 E1962	Clamp, screw, release valve	
20	E7530	Oil level plug	
21	E5218	Circlip, gudgeon pin	
22	E5581	Key, drive sprocket	
23	E3318	Joint washer, release valve	
24	V107×3	Joint washer, oil filler plug	
25	E1905	Joint washer, level screw	
26 27	V476 E5808	Joint washer, crankcase drain screw	
28	E7271	Crankcase screw, $l \frac{5}{16} \% \times 90^{\circ}$	
29	E7128	Crankcase screw, $\frac{3}{4}'' \times 90^{\circ}$	4
30	E4934	Clutch bridge screw, $\frac{13}{16}$ " \times 60°	
31	E7326	Clutch cover screw, 1"×90°	
32	E3222 E5107	Clutch cover bolt and drain screw Stud clutch cover $\frac{1}{4}$ × $1\frac{5}{16}$	
34	E2539	Nut for stud, small hex	
35	E7414	Clutch operating rod	
36	E6567	Clutch adjuster screw	/
36A	E401	Nut for clutch adjuster screw	
37 38	E1050 E2924	Spring washer, $\frac{5}{16}''$	
39	E7619	Dowel clutch case	
40	E2677	Dowel, crankcase	
41	E7452	Crankpin roller	
42	E5124	Key, engine sprocket	
+			
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	12		



TES CICEL CO. LID.

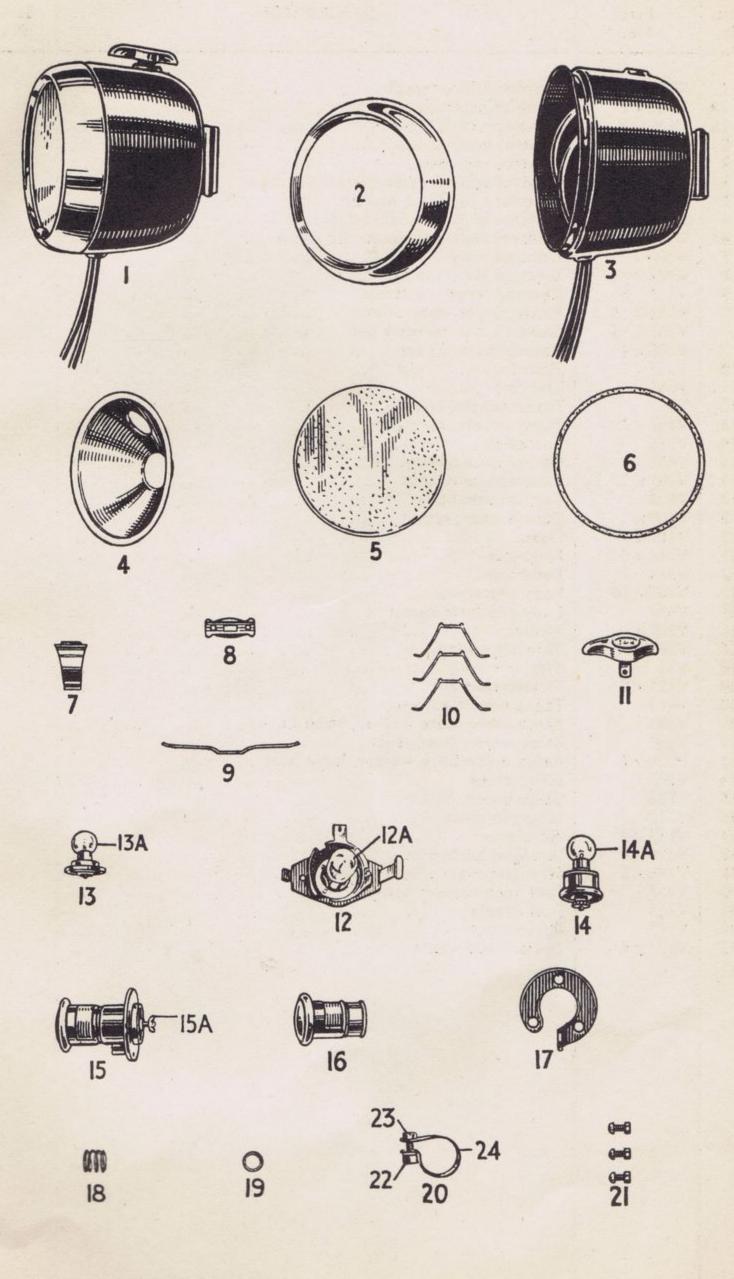
SPARES LIST FOR SUPERLUX AUTOCYCLE PLATE 9

RI10
24 1002 × 13 Spring washer for stud
1124×9



SPARES LIST FOR SUPERLUX AUTOCYCLE PLATE 10

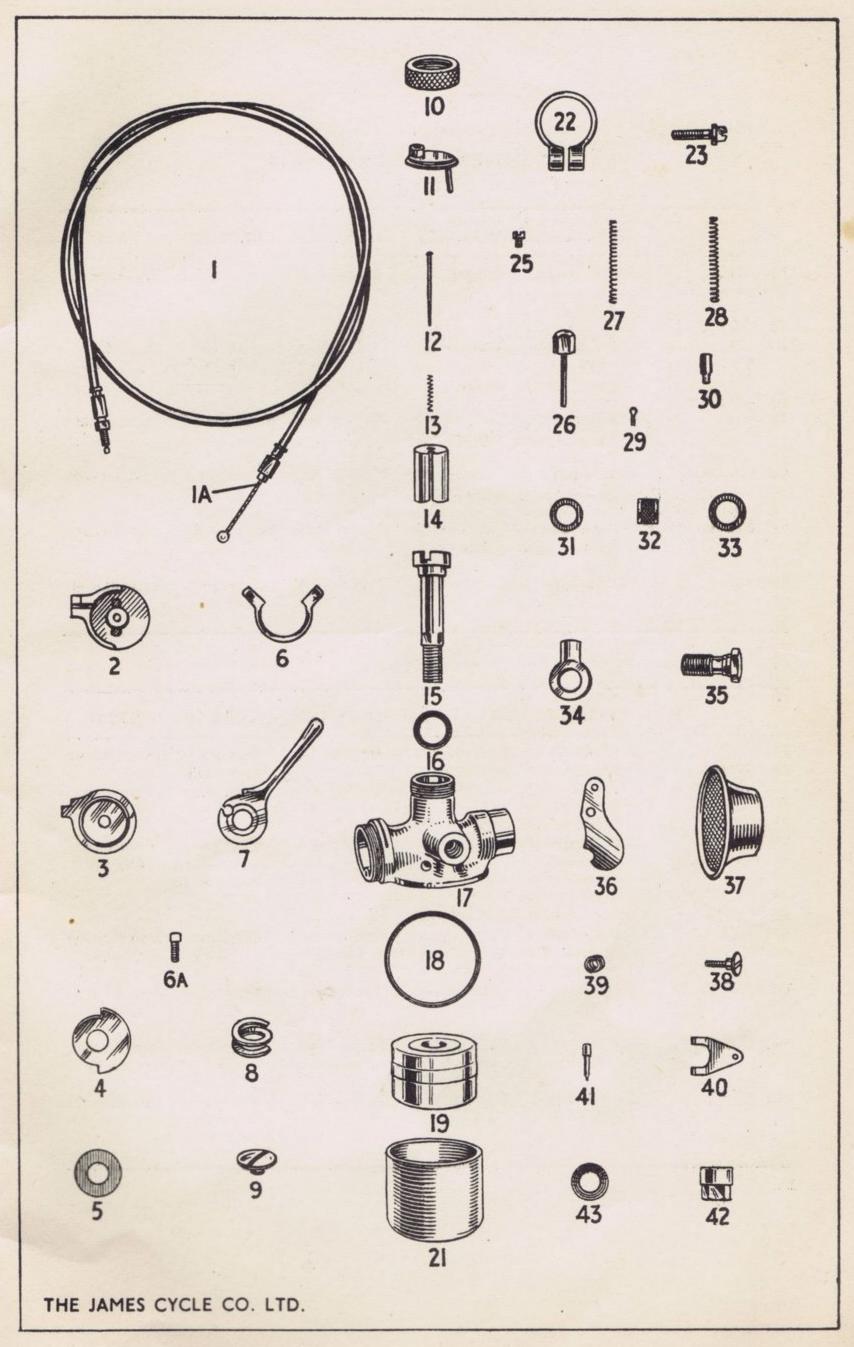
us.	Part No.		DESC	CRIPTIO	N				Sell Pri
	VRS.304	LIGHTING		heed l	ma 4	II laws	h		
	VK3.304	Complete lightin	g set with	nead la	mp, ta	ii iamp	, build	s and	
1	64004B & D	Head lamp comp	lete with						
2 3 4	608254	Front rim							
3	608094 608552	Head lamp body Reflector							
5	608340	Front glass							
6	600307	Rubber packing							
7	608190	Front aim clip							
8	608033	Switch arm						• • • • •	
0	608073	Aim clip retaining Reflector retaining	ng wire						
Ī	608179	Switch knob asse	embly						
2	601036	Main bulbholder	assembly						
2A	(00005	Main bulb 6V—1				• • • •			
3 3A	608025	Pilot bulb holder Pilot bulb 4V—3		an					
4	606207	Bulb holder asse		ар				9	
4A		Tail lamp bulb 4							
5	606212A	Tail lamp, compl		V.T.31					
5A	630050	Terminal nut							
6	601082	Tail lamp body Fixing plate							
8	608030	Switch spindle s							
9	699009	Switch spindle s	pring wash	er					
-	601087A	Cable, head to n	nagneto, 23	3″					
-	608076F 631067A	Cable, head to to Cable, head to e							
	601081	Resistance							
0	606216	Tail lamp body							
1	608177	Tail lamp fixing	screw and	nut				set 3	
2	126520 165190	Clip screw		(not)					
4	G1405	Clip screw nut Clip screw wash		(set)					
		-							
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THE JAMES CYCLE CO. LTD.

SPARES LIST FOR SUPERLUX AUTOCYCLE PLATE II

llus. No.	Part No.	DESCRIPTION						Nett Selling Price	
. ,		Control coble comple	te						
IA	V234B.C.G. V105 × I	Control cable, comple Cable adjuster							
IB	V105×2	Cable adjuster, locknu							
2	V405	Control body							
3 4	V387	Control top cover							
4	V429	Control body friction		•••	•••				
5	V142×10 V142×7	Control body fibre wa		•••					
6A	V142×5	Control body handleb		crew					
7	V406	Control lever							
8	V142×11	Control lever spring				٠			
9	V117×5	Control lever top scre							
	V123×15	Cable nipple, control			•••		•••		
	V145×16 V108×4	Cable nipple, throttle			•••		•••		
10	V367	Cable nipple, sleeve							
ii	V665	Top disc							
12	V651	Taper needle, No. 21							
13	V107×7	Taper needle, spring							
14	V365	Throttle							
15	V408	Centrepiece and Jet J.							
16	V107×3 V508	Centrepiece washer Carburetter body							
18	V107×2	Carburetter washer							
19	V107×1	Float							
21	V146×6	Float cup							
22	V326	Body clip							
23	V107×16	Body clip screw							
25 26	V424 V207	Body clip locating scree							
27	V369	Throttle spring							
28	V21	Tickler spring							
29	VIII×2	Tickler split pin							
30	V413	Taper needle adjuster	•••		•••				
31	V383 V404	Banjo union fibre wash Banjo union filter gauz		il noie		•••	•••		
33	H104×8	Banjo union fibre wash		e hole					
34	V381	Banjo union							
35	V382	Banjo union, bolt							
36	V373	Strangler plate		•••					
37	V148×3	Air cleaner							
38	V626 V146×2	Strangler plate screw	washer						
40	V257	Fuel needle, lever and							
41	V355	Fuel needle							
42	V172	Bottom nut							
43	V107×4	Bottom nut washer							
		PHOSEOPIE		~	~				



RECOMMENDED LUBRICANTS

(U.K.)

A.C.

	SHELL	WAKEFIELD	VACUUM	PRICE'S	ESSO
ENGINE (All Seasons)	Double Shell	Castrol XL	Mobiloil A	Energol SAE 40	Essolube 40
CLUTCH	Shell Dentax 140	Castrol D	Mobilube C	Energol SAE 140	Esso Gear Oil 140
EXPOSED	Shell Retinax CD	Castrolease Graphited	Mobilgrease No. 2	Belmoline C	Esso Grease
GREASE GUN	Shell Retinax CD	Castrolease CL	Mobilgrease No. 2	Belmoline C	Esso Grease
WHEEL HUBS	Shell Retinax RB	Castrolease Heavy	Mobil Hub Grease	Belmoline C	Esso Grease
OIL CAN	Double Shell	Castrol XL	Mobiloil A	Energol SAE 40	Essolube 40

(OVERSEAS)

	SHELL	WAKEFIELD	VACUUM	ENERGOL	ESSO
ENGINE (All Seasons)	Shell X-100 SAE 30	Castrol XL	Mobiloil A	Energol Motor Oil SAE 40	Essolube 40
CLUTCH					
UNIT	Shell Dentax 140	Castrol D	Mobilube C	Energol Transmission SAE 140	Esso Gear Oil 140
EXPOSED	Shell Retinax CD	Castrolease Graphited	Mobilgrease No. 2	Energrease C3	Esso Chassis Grease
GREASE GUN	Shell Retinax CD	Castrolease CL	Mobilgrease No. 2	Energrease C3	Esso Chassis Grease
WHEEL HUBS	Shell Retinax RB	Castrolease Heavy	Mobil Hub Graese	Energrease C3	Esso Bearing Grease
OIL CAN	Shell X-100 SAE 30	Castrol XL	Mobiloil A	Energol Motor Oil SAE 40	Essolube 40

2F.

THE JAMES GUARANTEE AND CONDITIONS OF SALE.

We give the following guarantee with our motor cycles, motor cycle combinations, and sidecars, including all accessories and component parts other than tyres, saddles, chains, and lighting and electrical equipment, and other than accessories and component parts supplied to the order of the Purchaser and differing from those comprised in the standard specifications supplied with our motor cycles, motor cycle combinations and sidecars, but including accessories and parts supplied by way of exchange as hereinafter provided. This guarantee is given in place of any implied conditions or warranties or any liabilities whatsoever statutory or otherwise; no guarantee except that hereinafter contained and no conditions or warranty whatsoever statutory or otherwise is given or is to be implied, nor are we to be under any liability whatsoever except under the guarantee hereinafter contained. Any statement, description, condition, or representation contained in any catalogue advertisement, leaflet or other publication shall not be construed as enlarging, varying or overriding anything herein contained. In the case of machines (a) which have been used for "hiring out" purposes or (b) any motor cycle and/or sidecar used for any dirt track, cinder track or grass track racing or competitions (or any competition of any kind within an enclosure for which a charge is made for admission to take part in or view the competition) or (c) machines from which the trade mark, name or manufacturing number has been altered or removed or (d) any machines in which parts have been used not supplied by or approved by the motor cycle manufacturer, or (e) any machine from which the silencing system as fitted by the manufacturer has been partially or wholly removed or interfered with, no guarantee, condition or warranty of any kind statutory or otherwise is given or is to be implied nor are we to be under any liability whatsoever in respect of any such machine.

We guarantee, subject to the conditions mentioned below, that all precautions which are usual and reasonable have been taken by us to secure excellence of materials and workmanship, but this guarantee is to extend and be in force for six months only from date of purchase, or date of exchange in case of any accessory or part supplied by way of exchange as hereinafter provided, and damages for which we make ourselves responsible under this guarantee are limited to the free repair of or supply of a new part or accessory in exchange for the part of the motor cycle, motor cycle combination or sidecar or accessory which may have proved defective. We undertake, subject to the conditions mentioned below, to make good in manner aforesaid any part or accessory covered by this guarantee which has proved defective within the said period of six months. We do not undertake to replace or refix, or bear the cost of replacing or refixing any such new part or accessory in the motor cycle, motor cycle combination or sidecar. As motor cycles, motor cycle combinations and sidecars are easily liable to derangement by neglect or misuse, this guarantee does not apply to defects caused by wear and tear, misuse or neglect.

The term "misuse" shall include, amongst others, the following acts :-

- The attaching of a sidecar to a motor cycle in such a manner as to cause damage or calculated to render the latter unsafe when ridden.
- 2. The use of a motor cycle or of a motor cycle and sidecar combined, when carrying more persons or a greater weight than that for which the machine was designed by the manufacturers.
- The attaching of a sidecar to a motor cycle by any form of attachment not provided, supplied, or approved by the manufacturers, or to a motor cycle which is not designed for such use.

We do not guarantee tyres, saddles, chains or lighting and electrical equipment or any accessories or component parts supplied to the order of the Purchaser differing from those comprised in the standard specifications supplied with our motor cycles, motor cycle combinations or sidecars. As regards all such tyres, saddles, chains, lighting and electrical equipment, accessories and component parts, no guarantee, condition or warranty of any kind statutory or otherwise is given or is to be implied, and we are to be under no liability whatsoever in respect thereof.

CONDITIONS OF GUARANTEE

If a defective part or accessory should be found in our motor cycle, motor cycle combinations or sidecars, or in any part or accessory supplied by way of exchange as before provided, it must be sent to us CARRIAGE PAID, and accompanied by an intimation from the owner that he desires to have it repaired or exchanged free of charge under our guarantee and he must also furnish us at the same time with the number of the machine, the date of the purchase or the date when the alleged defective part or accessory was exchanged as the case may be.

Falling compliance with the above, such articles will lie here at THE RISK OF THE OWNER, and this guarantee and any implied guarantee, warranty or condition shall not be enforceable.

REPAIRS

Any motor cycle, motor cycle combination or sidecar sent to us to be plated, enamelled or repaired will be repaired upon the following conditions, i.e., we guarantee that all precautions which are usual and reasonable have been taken by us to secure excellence of materials and workmanship, such guarantee to extend and be in force for three months only from the time such work shall have been executed, and this guarantee is in lieu and in exclusion of all conditions and warranties statutory or otherwise and all liabilities whatsoever and the damages recoverable are limited to the cost of any further work which may be necessary to amend and make good the work found to be defective.

MAINTAINANCE MANUAL AND INSTRUCTION BOOK

Of particular value to mechanics and owners carrying out their own overhaul and repair work, a comprehensive volume dealing with the 122cc. and 197cc. models is now available at 10s. 6d.

LAPEL BADGES

Neat and distinctive lapel badges are offered to James owners at Is. Od. each.

WHEN ORDERING
REPLACEMENTS
PLEASE QUOTE
YOUR ENGINE
AND
FRAME NUMBER