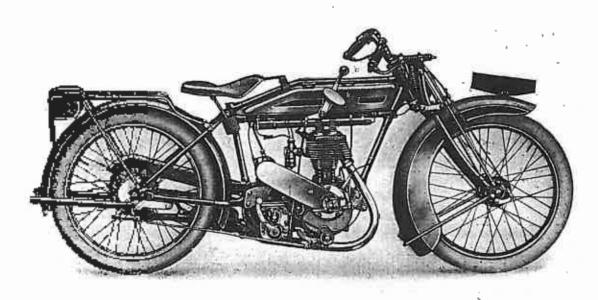


INSTRUCTION BOOK AND SPARE PARTS LIST

1924 MODEL L/3

DRIVING AND ADJUSTMENT INSTRUCTIONS



"Matchless" Model "L/3."

H. COLLIER & SONS, LIMITED,

Manufacturers,

Registered Offices:

44-45, PLUMSTEAD ROAD, PLUMSTEAD LONDON, S.E. 18, ENGLAND.

Nearest Station; WOOLWICH ARSENAL, S.E.C.R. Factory:

WOOLWICH ARSENAL, S.E.C.R. BURRAGE GROVE & MAXEY ROAD, PLUMSTEAD, S.E.

Telegrams & Cables - "Matchless, Woolwich,"

Telephone - Woolwich 17 & 18.

Code $egin{cases} A.B.C. & \textit{5th Edition} \\ Bentleys, \\ \& & Private & Code \end{cases}$



INTRODUCTION

Following our previous practice of endeavouring to obtain good service by making every purchaser thoroughly acquainted with the working of his mount, we issue herewith detailed description and adjustment advice on all important units, together with useful illustrations. A careful study of the contents will enable the possessor of a Model "L/3" to carry out any small adjustments that may be necessary from time to time, and so obtain the best service from his mount, which result is our earnest desire.

The Spares Section has been compiled to enable customers to correctly specify their requirements when renewals of any part are necessary (Sec Pages 15 and 16) for Instructions re Ordering Parts and particulars of Deposit Account System).

H. COLLIER & SONS, LIMITED.

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General Description,

STARTING.

Before describing the actual method of starting, it is perhaps advisable to explain the various (gear) lever positions. Neutral or free engine position of the gear is at a point where the extension on gear quadrant engages slot in gear lever (about one-third forward from rearmost position) and at this position engine should always be started.

Ignition is advanced or retarded by means of a lever on the left side of handlebar. To advance spark this lever should be drawn inwards;

for starting it should be about three-quarters advanced.

The throttle and air levers for carburetter both open inwards, the top lever operating the air and the lower and longer one the throttle-For starting, throttle should be about one-sixth open, and air completely. closed. A small milled edge screw at the bottom of mixing chamber controls the air supply to pilot jet. This screw is accurately set at the works. but on account of variation in fuel or temperature it may be found desirable to alter the adjustment occasionally. It should be explained therefore that by unscrewing, more air is admitted thereby weakening the mixture or vice versa, screwing in enriches the mixture by decreasing the air supply. This adjustment only affects carburation on very small throttle openings and dead slow running. The taper needle attached to the throttle piston controls the petrol supply on large throttle openings. To weaken the mixture this needle must be lowered or alternatively to enrich it is necessary to raise same. These remarks are intended only to roughly convey some idea of the carburettor working and owners are advised to refrain from making any adjustments without good cause.

The petrol is turned on when the lever on the tap to which the petrol pipe is attached is paralle' to the body of the tap. Assuming that the tank has been filled with petrol and oil of the brand recommended elsewhere, and that all levers and taps have been set as above, to start engine first flood the carburettor by depressing the button on the float chamber until the petrol overflows, then raise the valve by lifting the left side handlebar lever, and at the same time, with the right foot give the kick-starter pedal a sharp and vigorous push downwards, releasing the valve lifter lever when the starter crank is about half way down. This operation should not require at the most more than three or four attempts.

When the engine is started close the throttle slightly to check the engine speed and seated on the cycle, disengage clutch by drawing inward the level which is situated on the left side of handlebar. Then shift gear level backward into first gear position, after which gently engage the clutch by releasing slowly the lever which has already been drawn.

inward.

When fairly under way, smartly declitch and simultaneously shift geat lever forward into second gear position, which is in middle of quadrant, at the same time releasing clutch lever gently but smartly as engine takes up the drive, after which repeat the operation to obtain top gear. In all changes of gear it is advisable to make contain that the gear lever is fairly in engagement with the notches in gear quadrant.

Note.—Any difficulty in starting will most probably be caused either by insufficient flooding too liberal throttie opening or ignition

not sufficiently advanced.

DRIVING.

In general driving it is always advisable to advance the ignition as far as possible without causing knocking. When ascending a steep hill as the engine slows, care should be taken to retard the ignition just sufficiently to prevent knocking, and if a change of gear then be made the ignition should be again advanced, as the speed of the engine is increased by the use of the lower gear. For descending exceptionally sleep and dangerous inclines the middle gear should be engaged enabling the frictional resistance of the engine to assist in retarding the descent. We do not, however, under any circumstances, recommend using the bottom gear for this purpose owing to the strain imposed upon the rear driving chain.

It is advisable to ease clutch slightly when rounding acute corners or when travelling slowly on top gear. If this practice is adopted from the first much unnecessary gear changing will be avoided.

"DON'TS" IN DRIVING.

DO NOT allow engine to labour on high gear on a steep gradient and remember that an easier, faster, and better ascent can be made on the next lower gear.

DO NOT make a practice of starting on second speed.

DO NOT under any circumstances, allow the chains to run very slack or very dry. Either will soon cause trouble, and adjustments are easy. Slack chains will inevitably cause harshness of transmission.

DO NOT force engine or drive above a maximum speed of 25 m.p.h. for the first 500 miles. Mention is made of this warning on account of the natural desire of a new owner to ascertain his mount's maximum capabilities. However, until all bearings are well run in, etc., it is advisable to refrain from speed bursts and the accompanying possibility of seized bearing, piston rings, etc. The first 500 miles of an engine's existence is far more important than the next 5,000.

DO NOT ignore these instructions or think them too elaborate. They have been compiled at a great amount of trouble, and are the outcome of practical experience extending over many thousand miles riding.

LUBRICATION

ENGINE.

The mechanical oil pump is very carefully set to deliver the correct quantity of oil to the engine and unless the owner has good cause we do not advise attempting to alter the delivery. At all times when starting up from cold a thin film of oily smoke should be apparent in the exhaust, and if at any time this should not be observed although the tell tale indicates that oil is passing, the two screws holding down the top plate

LUBRICATION-contd.

on oil pump should be loosened and the centre barrel (the part with handle extension) turned one division of the indicator in a left hand or contraclockwise direction. The tell tale referred to above consists of a small plunger extension to the oil pump on the delivery side which must lift before oil can pass. Therefore, when oil is passing, this small plunger must necessarily be somewhat extended and at low speeds it will be seen to fluctuate with the action of the plunger of oil pump. It may be explained that at high engine speeds the deliveries of oil from pump are too rapid to allow of the tell tale plunger returning to its normal position between each impulse and therefore it constantly remains in an extended position. The movement of this tell tale must be noticed before and occasionally during each run as this is the only means by which driver can readily observe that the pump is functioning properly. At night time the position of the plunger can be felt quite easily, even though gloves are worn, and it must always be remembered that oil cannot pass into the engine until this tell tale plunger is extended thereby uncovering the oil passage.

Wakefield's Castrol "C" or Wakefield's "XL" Anvised.
Of equal importance to the engine is the lubrication of such parts
as chains, fork spindles, hub bearings, etc., which should be dealt with

systematically as follows:-

CHAINS.

It will probably be found that the front chain will receive sufficient lubrication from the engine air release pipe, but, however, this should be inspected periodically and oil injected at rear of chain guard if necessary. The rear chain should be removed occasionally and well soaked in paraffin especially in bad weather, and after carefully wiping should then be soaked in molten tallow. A good soaking in engine oil will serve as a poorer substitute.

PORK SPINDLES.

Every 200 miles the lubricators of which there are nine should be filled with oil (Bicycle lubricating oil will serve).

GEAR BOX.

Every 500 miles the gear box filling plug should be removed, and the gear box filled to overflowing when the machine is standing level with (preferably) Speedwell Crimsangere which is specially recommended. If this is temporarily unobtainable, Mobiloil C Gear oil may be used.

HUBS.

Every 500 miles (or more (requently in continuous bad weather) the lubricators in the centre of both front and rear hubs should have a few drops of oil forced through them. (Engine oil suitable).

In addition to the foregoing, all parts, such as brake and gear rod, joints, etc., should receive a few drops of oil occasionally, particularly in

had weather. Bicycle lubricating oil or engine oil,

ADJUSTMENTS

ENGINE.

To Adjust Inlet Or Exhaust Tappets. Hold tappet head (top large hexagon) with spanner provided, and slack off lock nut (bottom large hexagon). Then screw down or up, as required, until correct clearance

is obtained, after which securely lock in position with lock nut,

Note.—Correct clearance between tappet head and exhaust valve stem when valve is down on its seating is loob while that for the inlet is loo4. To obtain the best results as regards silence of valve gear these clearances should be accurately maintained and a cheap set of engineers feeler gauges will be found very useful for checking purposes.

TO ADJUST VALVE LIFTER WIRE.

Slack off large locking nut 1./3E 216 and screw small knurled part at the top, in or out until correct adjustment is obtained, after which, lock securely. Care must be taken when adjusting to see that the valve tappets are quite free when valves are down on their seatings.

TO REMOVE CYLINDER.

First remove sparking plug and petrol pipe. Then unscrew exhaust pipe union nut and carburettor mixing chamber cap, then cylinder holding down nuts, and with the piston at the bottom of its stroke, lift

off the cylinder.

The re-assembling should be carried out in the reverse order. Before refitting cylinder, the interior, together with the piston, should be carefully wiped with a clean calico rag, and afterwards smeared with perfectly clean engine oil. Too much care cannot be exercised to prevent the admission of any dust or foreign matter, and while on this subject we particularly warn owners against the usual practice of using the top of the tank as a resting place for nuts and pins, etc., which can at the least jar fall into crankcase interior while cylinder is removed.

The base of cylinder, just prior to refitting, should be smeared with

a little seccotine or quick drying gold size.

After the whole job has been completed and tappets adjusted if necessary (see Instructions) it is advisable to go over all nuts, particularly cylinder holding down nuts.

TO EXPOSE VALVE TIMING GEAR.

First detach at tank end the suction oil pipe, and to prevent leakage of oil force into the oil pipe union on tank a taper wooden plug. Then detach the oil pipe entirely after which remove the delivery oil pipe, when upon unscrewing the fixing nut, the outer half of magneto chain case may be removed. Next remove the wide spacer nut on chain case supporting bolt, the nut and bolt securing cam shaft and magneto chain sprockets respectively, then with a lever behind the chain case gently force off each sprocket in turn when the rear portion of chain case may be taken away. Next slacken the valve lifter cable adjuster lock nut and screw the adjuster itself down into the tubular barrel until this barrel may be raised to allow the cable end to be detached. Next remove all timing cover screws, when the cover with valve lifter parts intact may be gently forced off.



TO REMOVE CAM WHEEL.

After removing timing gear cover as described, turn engine slowly until marks on cam wheel and small pinion coincide, when cam wheel may be withdrawn.

TO REPLACE CAM WHEEL AND TIMING COVER, ETC.

First see that the marked tooth on small pinion is vertical, then holding the cam levers and valve lifter lever up with the fingers gently introduce the cam wheel with the mark on same coinciding with that on the small pinion. Then holding the valve lifting lever up with a piece of wire or screwdriver gently slide the cover and valve lifting cam over their respective spindles. When about I inch from home the screwdriver may be withdrawn and the cover gently pressed home, after which the fixing screws should be firmly tightened.

NOTE.—It is advisable to smear the edge of the cover with seccotine or quick drying gold size just before fitting. For retiming of magneto see below.

TO REMOVE MAGNETO.

Remove magneto chain and sprockets, also magneto chain case. (See To Expose Timing Gear). Then detach sparking plug cable from sparking plug and all frame clips. Then disconnect magneto control wire and after removing the two holts securing the magneto to platform, the whole is ready to be lifted clear.

Note. When replacing, care must be exercised to fix magneto with sprockets exactly in line with one another. This should be tested with a straight edge (12 inch rule will serve).

TO RE-TIME MAGNETO.

Revolve the engine by hand until piston is approximately one-quarter of an inch from top of compression stroke (i.e.,) the stroke upwards immediately after inlet valve has closed).

Note.—To ascertain position of piston, remove compression tap and insert a piece of stout wire, preferably of sufficient length to reach piston when at bottom, then with ignition lever in fully advanced position, and magneto sprocket loose on shaft (the other sprocket being previously tightened), turn the magneto armature backwards until the points are just about to break. Holding carefully in this position tighten up the magneto sprocket bolt securely.

TO DISMANTLE HUB BEARINGS.

After wheels have been removed (see Removing Wheels), withdraw brake cover plate. Then unscrew adjusting cone and from the opposite side draw out spindle. Care should be taken to prevent the balls from slipping into the hub interior, a good means of securing these balls while assembling is to apply a small quantity of good quality grease.

TO ADJUST MAGNETO CHAIN.

It will be observed that magneto chain adjustment is obtained by sliding the magneto platform back upon the engine cradle plates, by means of the adjuster situated on the down seat tube.

Correct chain adjustment is such that when the top of chain is lightly pressed up and down a whip of about kinch to kinch, is obtained.

To adjust chain slack off the two nuts on gear box studs and screw the chain adjuster referred to above in a clockwise direction to tighten or in the opposite direction to slacken, after which securely tighten down gear box stud nuts.

TO INSPECT GEAR BOX INTERIOR

To remove gear box end plate for examination of gears, disconnect the clutch control wire by slackening off the adjustment, when the nipple can be slipped out of the small operating arm. After removing the seven nuts securing cover plate, gently draw off the latter.

Note.—While the end plate is being removed, a pan or some receptable must be placed underneath to catch the oil, the bulk of which will run out. When re-assembling, the faces of the end plate and gear box must be thoroughly cleaned, and a new paper washer used if the oil one has been damaged. Preferably coat with quick-drying gold size.

GEAR ROD ADJUSTMENT.

To adjust gear rod, disconnect pin which passes through top yoke end of gear rod and slack off locking nut. Then screw yoke end up or down until correct adjustment is obtained after which replace yoke end pin and securely lock with locking nut.

When the gear is correctly adjusted the gear lever should move an equal amount either side of the neutral notch without engaging either the middle or low gear.

CLUTCH ADJUSTMENT.

In the event of clutch slip being experienced the adjustment of clutch operating cable should be suspected. When correctly adjusted it should be possible to move the clutch actuating worm (part to which lower end of cable is attached) forward slightly with the fingers and if this free movement cannot be felt the cable stop should be adjusted accordingly. If necessary the bolt securing the clutch worm lever may be slackened and the worm portion revolved slightly backward to provide slacker cable adjustment or forward to tighten.

TO ADJUST FRONT CHAIN.

Slack off the two nuts securing gear box to aluminium bracket which rests on the engine cradle plates, also the bolts which pass through cradle plates immediately above gear box, and slide gear box in the required direction, by means of the adjuster which passes through the frame bracket at foot of saddle tube.

To Adjust Front Chain-contd.

Correct adjustment of chain should allow a movement of §in. to §in., when chain is pressed up and down. Care must be taken after adjustment has been made to securely tighten the top gear box fixing nuts, and side bolts referred to above in the order mentioned.

WARNING.—The various nuts securing gear box must be carefully and thoroughly tightened after any adjustment has been made, otherwise the chain pull will show a tendency to tighten front chain and slacken rear.

TO ADJUST REAR CHAIN,

Put down rear stand, then slack off rear wheel spindle nuts and bolt which secures brake cover plate to special lug on frame tube. Then adjust chain as required, by means of the bolts which pass through each of the fork ends, after which securely tighten spindle nuts and bolt securing brake cover plate. Tension of chain should be tried in a number of places, and the correct adjustment (which should allow a whip of \$in. to \$in, when chain is pressed up and down), should be obtained for the tightest place.

Note.—Before tightening rear chain the adjustment of front chain should be inspected, and if attention to each is required the latter should be treated first.

TO ADJUST FRONT FORKS.

Adjustment to front fork spindles for side wear. The need for adjustment at this part will be apparent by a creaking noise when steering head is turned abruptly with machine stationary.

First ascertain which spindle or spindles require adjustment, and slack off both lock nuts. Then by means of the squared end, turn the spindle clockwise to take up slack, or anti-clockwise to give more freedom after which tighten up the lock nuts securely.

Care is necessary in this operation to guard against over-tightening when the fork will be stiff in action, and will most likely refuse to fruction.

Note.—The nut on squared end is left hand thread.

TO ADJUST STEERING HEAD.

The steering head should be occasionally tested for adjustment by exerting pressure upwards from the extreme tips of the handlebars. Should any shake be apparent slack off handlebar clip bolt and tighten down the large nut which encircles the handlebar stem until all signs of slackness have disappeared, after which securely tighten clip bolt nut.

IMPORTANT.—To guard against unconsciously overtightening the head bearings, the effect of which is extremely difficult steering, it is advisable to jack up the front of machine (a box of suitable height under crankcase will serve) in order that all shake may be taken up satisfactorily and the steering head left perfectly free.

TO REMOVE REAR WHEEL

Put down rear stand. Then disconnect rear brake rod, and rear chain connecting link, after which release wheel axle nuts and remove the bolt securing brake cover plate. The wheel is then ready to be removed by drawing same backward until axle is free from fork ends.

TO REMOVE FRONT WHEEL.

Put down front stand. Then disconnect front brake rod at bottom end and remove the bolt which secures brake cover plate to lug on fork girder. Then slack off axle nuts and with a stout screwdriver or tyre lever gently spring each side of the fork out, at the same time pressing wheel down, when the wheel will drop out.

Note.—It is advisable to first put rear stand down as front stand

is not wide enough to provide a safe balance.

TO ADJUST WHEEL BEARINGS.

To adjust either back or front wheel first loosen the left side axle nut. Then with the thin cone adjusting spanner, turn the cone slightly in a right hand direction, and when wheel is free from shake, tighten axle nut securely.

Note.—It is advisable to verify adjustment of bearing after axle

nut has been retightened.

PERIODICAL INSPECTION OF NUTS (IMPORTANT).

It is advisable to periodically run over all important nuts. Much valuable time may be saved by a few minutes so spent at various intervals. The most likely parts to be requiring attention are given below in your own interests.

Wheel axle nuts, all mudguard nuts, nuts securing brake cover

plate, engine bolt nuts, and stand bolts and nuts.

CLEANING.

If the machine is used to any extent in bad weather, for mud removing, a small hose is almost indispensable, but when using same care should be exercised not to direct water on to the engine and magneto or other such parts. If a hose is not available, soak dirt with paraffin before removing. Do not attempt to rub or brush mud off an enamel surface when dry, or the polish will soon be destroyed. For engine, magneto, etc., a good stiff paint brush and a pot of petrol is preferable.

Stoppages and the Likely Causes

ENGINE SUDDENLY STOPS. Probable cause:

Petrol low in tank.
Dirt in petrol pipe.
Choked jet.
Water in float chamber.
Choked petrol pipe or tap.
Air lock in tank.

Stoppages and the Likely Causes-conid.

ENGINE RONS BADLY. Probable cause.

Valve sticking.
Weak valve spring.
Plug points too close.
Water on plug.
Plug oily or sooted.
Air leakage (due to carburettor being disturbed).
Paraffin in petrol, or bad petrol.
Valve seating burnt.
Faulty magneto contacts.

ENGINE WILL NOT START. Probable cause:

Too liberal throttle opening.
Valve stuck up.
Water on plug.
Choked jet.
Valve or valves not seating properly.

LEGAL MATTER.

To comply with the law relating to motorcycles the owner of a "Matchless" Model " L/3" must :

- 1. Hold a driver's licence, which can be obtained from the Chief Constable or Corporation of a County Borough, or from the County Council. The charge for this licence is 5/- yearly, and must be renewed annually from the date of issue. A motor-car driver's licence covers the driving of a motorcycle.
- 2. Apply to the Taxation Department of the Local Authority of the district in which the vehicle is to be ordinarily kept, for Inland Revenue Licence and Registration Form RF 1/2 (Motorcycles only). The address of the above Taxation Department can be obtained by enquiry at a Post Office.
- 3. The form RF 1/2 when obtained must be filled in and returned, accompanied by a remittance of £3/0/0 if used solo, and £4/0/0 if desired for use with sidecar, and in some districts evidence that the vehicle to be beenced is new and has not previously been registered may be demanded. Manufacturers' or Agents' invoice will serve.
- 4. See that his front plate is illuminated at night on both sides. See that his machine, if used with sidecar, is provided with a lamp on the extreme near side of same showing a light forward, and is also provided with a lamp which shows a red light to the rear. The law regarding this matter does not state any particular place in which the rear lamp must be fixed.
- 5. Never drive at a speed which is dangerous to the public.

Legal Matter-contd.

6. Wherever necessary, give audible and sufficient warning by horn or other instrument of the approach of his motorcycle. For registration purposes, the following particulars will be required:—

Weight of cycle unladen 220-lbs.
Weight of sidecat (if requested only) ... Ioo-lbs.
If sidecar is detachable (if requested only) Yes
Description or type of motorcycle ... "Matchle

Description or type of motorcycle ... " Matchless"

Position of front number plate ... On front mudguard visible from either side.

Position of rear number plate ... On back-end of carrier behind saddle and visible from the rear.

Guarantee Terms and Conditions.

We give the following Guarantee with our motorcycles instead of the Guarantee implied by statute or otherwise as to the quality of fitness of such machines for the purpose of motorcycling, and such implied Guarantee being in all cases excluded. In the case of machines which have been used for "Hiring out" or racing purposes, or in respect of which our trade mark or manufacturing number has been removed, no Guarantee of any kindis given or is to be implied.

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, and the damages for which we make ourselves responsible under this guarantee are limited to the replacement of any part which may have proved defective.

WE UNDERTAKE, subject to the conditions mentioned below, to make good at any time within six months any defects in these respects. As motor-cycles are easily liable to derangements by neglect or misuse, this Guarantee does not apply to defects caused by wear and tear, misuse or neglect.

REPAIRS

Any motorcycle sent to us to be plated, enamelled or repaired will be repaired upon same conditions, i.e., we Guarantee that all precautions which are usual and reasonable, have been taken by us to secure excellence of material and workmanship, and this Guarantee is in lieu, and in exclusion, of any common law or statute warranty, 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.

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CONDITIONS.

If a defective part should be found in our motorcycles it must be sent to us, carriage paid, and accompanied by an intimation from the sender that he desires to have it repaired free of charge under our Guarantee and he must also furnish us at the same time with the number of the machine, the name of the Agent from whom he purchased, and the date of purchase.

Failing compliance with the above, no notice will be taken of anything which may arrive, but such articles will lie here at the risk of the senders : and this Guarantee, or any implied Guarantee shall not be enforceable.

We guarantee only those machines which are bought either direct from us or from one of our duly authorised agents, and under no other conditions.

We do not guarantee the specialities of other firms, such as tyres, saddles, chains, lamps, etc., or of any component part supplied to the order of the purchaser differing from our standard specification supplied with our motorcycles or otherwise.

THE TERM "AGENT."

is used in a complimentary sense only, and those firms whom we style our agents are not authorised to advertise, incur any debts or transact any business whatsoever on our account other than the sale of goods which they may have purchased from us; nor are they authorised to give warranty or make any representation on our behalf other than those contained in the above Guarantee.

MACHINE NUMBERS.

The frame number will be found stamped on the right hand side of hig under saddle.

The engine number is stamped on the aluminium crankcase, transmission side, immediately beneath cylinder base.

H. COLLIER & SONS, LIMITED

INTRODUCTION.

We have pleasure in presenting this Spares List for the "Matchless" L/3 ' 1924 Model.

Every part likely to be required can readily be found by reference to illustrations contained therein.

Every part has a distinctive number, and care should be taken to order correct part, calling same by the name specified, and giving the part number.

Read carefully rules on pages 15 and 16.

We are at all times willing to give estimates for parts or repairs, and also give to all customers the benefit of our advice regarding any query.

H. COLLIER & SONS, LIMITED.

TERMS OF BUSINESS.

Our invariable rule in this department is net cash with order. Remittance to fr in value may be sent by Postal Order, but over this amount it is advisable to remit by cheque. Cheques to be made payable to H, Collier & Sons, I.td., and crossed. When making remittance by Telegraph Money Order, the name and address of sender should be included, as, unless this is done, the Post Office do not give this information in the telegram. We frequently receive Telegraph Money Orders without sender's name, with the result that we cannot trace by whom the amount is sent, and we have to wait until customer writes complaining about delay before the matter can receive any attention. If remittance is not sufficient to pay for postage or carriage, goods will be sent "carriage forward" (Goods train).

All repairs accounts are strictly cash before delivery.

The prices in this list are subject to alteration without notice,

DEPOSIT ACCOUNT.

We strongly advise all owners of "Matchless" motorcycles to take advantage of our "Deposit System." It often occurs that parts are required by return, but customers not having a current account, there is the inevitable delay of "pro forma" invoice being sent, and we have to wait receipt of his remittance before the goods can be despatched. This delay causes considerable inconvenience to the party concerned, and can be avoided by opening a Deposit Account.

A remittance of not less than £4 entitles a customer to this form of account, and when goods are ordered by 'phone, telegram or letter they will be despatched at the earliest possible moment by the quickest route. Invoices will be sent for all goods supplied, and a statement will be rendered showing amount of deposit in hand when required, and customers will be notified immediately their deposit becomes exhausted, so that they may renew same. We are at all times prepared to return balance of deposit upon request.

Kindly note, when ordering, to mention "Deposit" or quote reference

as shown on monthly statements.

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REPAIRS.

In case of extensive structural repairs being required, we strongly advise all owners to send machines to our works for attention. It is obvious that manufacturers can do this kind of work better than any repairer.

OVERHAULING.

When sending us a complete motorcycle, engine, gear box or other part with the request that we overhaul same, we understand by the term "overhaul" that it is to be entirely dismantled, thoroughly renovated, any worn part renewed and put in perfect working order. In case a customer desires only certain parts attended to, explicit instructions should be given us to that effect, otherwise cost may be far in excess of what is anticipated.

ESTIMATES.

It is becoming a general practice for customers when sending their engines or complete motorcycles to us for repairs, to request a detailed estimate for the necessary repairs before proceedings with the work.

We are always pleased to furnish these estimates, but it must be distinctly understood that only approximate quotations can be given, as, when re-erecting, it is often found that other repairs or new parts are

necessary, which it was impossible to locate when dismantling.

In some instances, when an estimate has been submitted, several of the items quoted for are questioned as being unnecessary or not required. We may say that we only include in our quotation new parts and repairs that we consider essential to make the machine suitable and satisfactory for the road.

We much prefer not to undertake a repair (neither do we accept any responsibility) when the estimate for same has been curtailed by the owner, as the parts he may delete are probably the most important to

obtain good results.

If an estimate is not accepted, i.e., the parts returned to the owner in their original condition, a nominal charge is made for taking down and re-assembling.

All repair accounts are strictly cash before delivery

RULES TO BE OBSERVED.

Parts sent to us for repair, replacement, or as pattern must bear distinctly sender's full name and address. Instructions regarding same must be sent under separate cover, otherwise goods may lie at our works and not be unpacked until instructions regarding same are received.

All goods must be consigned to us carriage paid,

3. Do not enclose cash (whether in the form of coin or paper) with goods. Remittance should be sent by letter post for your own protection.

4. Customers having no account with us should not fail to remit

at the time of order and also to include postage.

5. When customer has no account, a Telegraph Money Order will ensure immediate attention.

When making enquiries respecting any part on order or repair

it is advisable to quote date of order.

7. In case of doubt regarding correct names of parts required it is advisable to send old part as pattern.

DAMAGE IN TRANSIT.

Our responsibility ceases when goods leave our works, and claims must be made on carriers in the event of damage occurring in transit. All goods easily damaged by rough handling are consigned (when by rail) at Railway Company's Risk, and all complete combinations consigned by rail, whether crated or otherwise, are until present conditions of transport improve, insured against damage in transit. Any such damage should be immediately reported.

Note.—By Railway Companies special regulations, unless damage in transit is reported within 3 days from receipt of goods, no claim can be

entertained.

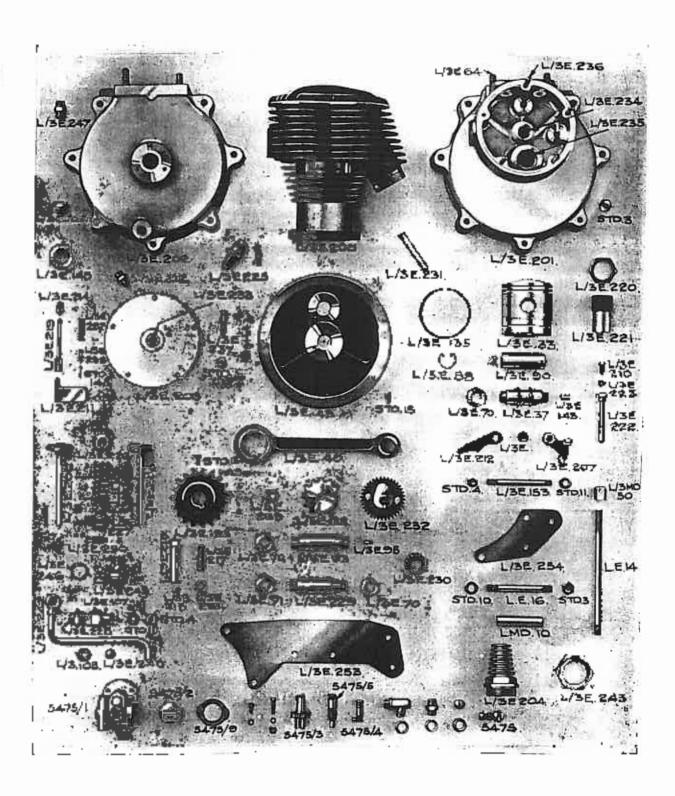
ENGINE PARTS

Α.

| | Λ. | , | _ | |
|--|---|---|--------------------|-----------------------|
| L/3 E. 93. L/3 E 229 L/3 E. 37 | Axle for flywheel (transmission side) Axle for flywheel (timing gear side) Axle for flywheel (crankpin) See flywheels for other parts | £ | 5. 6 6 13 | d. 9 |
| | B. BUSHES. | | | |
| L/3 E. 235 L/3 E. 234 L/3 E. 233 | Bush for flywheel axle (timing side) Bush for camshaft (crankcase side) Bush for camshaft (outer or cover side) | | 1 2 | 9 |
| L/3 E. 89 L/3 E. 38 L/3 E. 100 | Bush for gudgeon pin Bush (hardened steel for roller big end) Bush (hardened steel for roller bearing trans- | | 3 6 | 3 6 |
| L/3 E. 108/228 | mission side of crankcase) Breather for crankcase (see release valve) | | 4 | 6 |
| | C. | | | |
| L/3 E. 200 L/3 E. 64 | Cylinder (bare) | 3 | 15 | -6 |
| S.T.D. 3 L/3 E. 243 L/3 E. 221 | Nut for same Cylinder union nut for exhaust pipe Cylinder induction nipple or sleeve for car- | | 2 | 3 9 |
| | burettor | | 2 | 0 |
| L/3. E. 220 | Locking nut for same | | | ΙÒ |
| L/3 E. 245 | Cylinder compression tap | | 2 | 6 |
| L/3 E. 246 | C and A, washer for same | | _ | 2 |
| L/3 E. 204 | Cylinder aluminium valve cap (Inlet or exhaust) | 4 | 3 | 0 |
| L/3 E. 293 | Crankcase (complete with bushes and studs) | 3 | 15 | 0 |
| L.E. 14 | Crankcase bolt long for magneto chain case | | | 0 |
| S.T.D. 3 | End nuts-for same (each) | | | 3 |
| | Crankcase bolt long for front chain guard | | | J |
| L/3 C. 52 | support | | | 7 |
| L/3 C. 59 | Distance tube for above | | | 4 |
| S.T.D. 3 | Nuts for above (each) | | | 3 |
| L/3 M.D. 50 | Special sleeve nut for magneto chain casc | | | _ |
| ,5 | interior | | | 6 |
| L.M.D. 10 | Distance tube (engine plate to chain case) | | | |
| L.E. 16 | Crankcase bolt (short) § diameter | | | 7 |
| S.T.D. 3 | Nut for same (each) | | | 3 |
| L/3 E. 153 | Crankcase bolt (short) 5/16" diameter | | | 5 7 3 6 6 |
| LE. 15 | Crankcase bolt (long) 5/16° diameter | | | |
| S.T.D. 4 | Nut for above (each) | | | 6 |
| L/3 E. 203 | Crankcase timing gear cover (see timing gear) | | 6 | |
| L/3 E. 40 | Connecting rod (see also flywheels) | | 9 | 6 |

| T to E | C,—contd. | | | | £ | 5. | d. |
|------------------------|--|--------|---|---------|-----|-----|-----|
| L/3 E. 232 | Camshaft (see timing gear) | | • • • | • • • • | | | |
| L/3 E. 207 | Cam lever (inlet) | | *** | | | 4 | 9 |
| L/3 E. 207 | Cam lever (exhaust) | | | | | 4 | 9 |
| L/3 E. 289 | Connecting rod complete wit | h sma | tH end b | oush | | | |
| | (anabig end bearing com | plete | With cr | ank- | | | |
| | pin | | 4.04 | 4.11 | 2 | I | 0 |
| L/3 E. 48 | Crank pin assembly only (| (pin, | rollers | and | | | |
| | outer race) | | | *** | 1 | 3 | 0 |
| | | | | | | _ | |
| | D. | | | | | | |
| L/3 E. 239 | Drain plug for crankcase | | | | | | 4 |
| , | The second management of the second | | | .,, | | | 7 |
| | E. | | | | | | |
| | Engine bolts (see engine plate | es) | 7 100 | - 70.0 | | | |
| L/3 E. 206 | Exhaust valve (see Valves) | ,,, | *** | -17 | | | |
| L/3 E. 248 | Exhaust pipe (see silencer) | | | | | | |
| | Exhaust tappet (see timing g | | *** | *** | | | |
| 213 2. 224/224 | marrage support (soc citizet & | cary | | ••• | | | |
| | | | | | | | |
| | . Armeni a F. ac | | | | | | |
| | FLYWHEELS AND AXL | ES, E | TC. | | | | |
| L/3 E. 43a | Flywheel (timing gear side) | | | | | | ^ |
| T 1 45 | Flumbeel (transmission side) | *** | | | | 13 | Q |
| | Flywheel (transmission side) Flywheel crank pin | *** 25 | * - 4 | 111 | | 13 | |
| 3 1 7 | | 111 | | 4-1 | | 13 | 0 |
| L/3 E. 70 S.T.D. 15 | Fixing nut for same | | | | | | 6 |
| T / W. | Lock screw for nut (each) | 12.1 | • | *** | | | 2 |
| L/3 E. 93 | Flywheel axle (transmission si | idej | | *** | | 6 | 8 |
| L/3 E. 70 | Nut for same (each) | *** | | | 100 | | |
| S.T.D. 15 | Lock screw for nut (each) | | h11 = | | | - | 2 |
| L/3 E. 229 | | | *** | *** | | 6 | 9 |
| L/3 E. 70 | Nut for same (inside) | - 1 1 | | *** | | | 6 |
| S.T.D. 15 | Lock screw for nut | | 200 | | | | 2 |
| L/3 E. 71 | Nut for securing small timing | pinio | n | *** | | | 5 |
| L/3 E. 95 | Keys for flywheel axle (each) | | *** | *** | | | 5 |
| | | | | | | 3.5 | |
| ÷ | G, | | | | | | |
| L/3 E. 90 | Gudgeon pin only | | | *** | | 3 | 9 |
| L/3 E. 88 | Gudgeon pin securing rings (ea | ach) | | *** | | | I |
| L/3 E. 89 | Gudgeon pin bush (see bushes) |) | 114 | | | | |
| L/3 E. 225 | Guide for tappet (inlet or exha | aust) | 111 | | | 4 | 3 |
| L/3 E. 224 | Guide for valve (inlet or exhau | | | 4 | | 3 | 3 |
| | | | | | | _ | ´ - |
| | I. | | | | | | |
| L/3 E. 205 | Inlet valve (see valves) . | | **1 | | | | |
| T I IT's | Inlet valve guide (see tappets) | 177 | *11 | | | | 4 |
| | Inlet valve cylinder cap (alumi | | | | | | |
| | realmec) | | | | | | |
| L/3 E. 281 | Inlet tonnet (see values) | | | | | | |
| | Inlet tubular nipple or union . | | | | П. | 2 . | n - |
| | Locking mut for come | | | *** | -3 | | 0 |
| | The state of the s | | | | | I | , |

ENGINE PARTS



M.

| | 101. | | | | | , |
|--|-------------------------------------|-----------|-------|---|-----|----|
| • | Magneto and parts (see page 35) | | , | £ | S., | ₫. |
| | mingrated and participate page 357 | , | , | | | |
| | 0. | | | | | |
| L/3 E. 239 | Oil drain plug for crankcase | | | | | 4 |
| L/3 E. 273 | Oil delivery pipe (pump to crank | (case) | | | 4 | 3 |
| L/3 E. 272 | Oil feed pipe (pump to tank) | | | | 5 | 3 |
| 5061/5475 | Oil pump complete | | | | 19 | Q. |
| 5175/1 | Oil pump body only | | | | 3 | 0 |
| 5475/5 | Oil pump centre worm spindle | +-4 | | | I | 0 |
| 5475/3 | Oil pump worm sleeve | | | | İ. | 6 |
| 5475/2 | Oil pump regulating block (with | handle | | | | |
| THE PARTY OF THE P | extension) | | | | I | -6 |
| 5475/9 | Locking plate for above | 400 | | | | 6 |
| OR THE SECOND | Screws for plate (per doz.) | | *** | | | 6 |
| 5475/4 | Oil pump plunger | *** | | | 1 | 6 |
| 5475 | Oil pump tell tale complete | 141 | | | 2 | 6 |
| 5475/2 and 9 | Oil pump tell tale plunger and ca | ip only | • • • | | | 9 |
| L/3 E. 247 | Oil pump union for oil pipe | | ٠ | | 3 | 3 |
| | Oil pump fixing screw (each) | | | | | I |
| | Nut for same | ••• | 414 | | | I |
| | Oil pipe nipple only (each) | • • • | -11 | | | 3 |
| L/3 E. 284 | Oil pipe union nut only (each) | | | | | 4 |
| L/3 E. 269 | Special nut for oil pump drive (so | ec timing | 5 | | | |
| × / P | gear) | | | | | |
| L/3 E. 247 | Oil pipe union for crankcase | | | | | 3 |
| L/3 E. 287 | Oil pipe union and filter for tank | | | | 2 | 3 |
| | | | | | | |
| | P. | | | | | |
| L/3 E. 33 | Piston (bare) | | | I | 0 | 0 |
| L/3 E. 288 | Piston complete with gudgeon pi | n and ric | igs | I | 6 | 6 |
| L/3 E. 135 | Piston ring (each) | | | | I | 0 |
| L/3 E. 230 | Pinion (small timing) | | | | 4 | 6 |
| L/3 E. 71 | Nut for fixing same | | | | | 5 |
| L/3 E. 231 | Pin or axle for cam levers (see tir | | | 5 | 2 | 0 |
| L/3 E. 237 | Pin or axle for valve lifter cam (s | ee timin | K | | | |
| | gear) | | 1 - 1 | 2 | 2 | 0 |
| L.E. 30 | Petrol pipe (see carburettor) | | | | | |
| | | | | | | |
| | R. | | | | | |
| L/3 E. 286 | Release valve complete with pipe | | | | 5 | 0 |
| L/3 E. 242 | Release valve pipe and top only | | | | | 9 |
| L/3 E. 228 | Release valve screwed body | | | _ | I | _ |
| L/3 E. 107 | Release valve screwed cap | | | I | | 4 |
| S.T.D. 4 | Nut for securing cap | *** | | _ | | 2 |
| S.T.D. II | Washer for nut | *** | | | | I |
| L/3 E. 240 | Release valve diaphragm | *** | | | | 2 |
| L/3 E, 108 | Seating for above | *** | | | | 9 |
| | - | | | | | - |

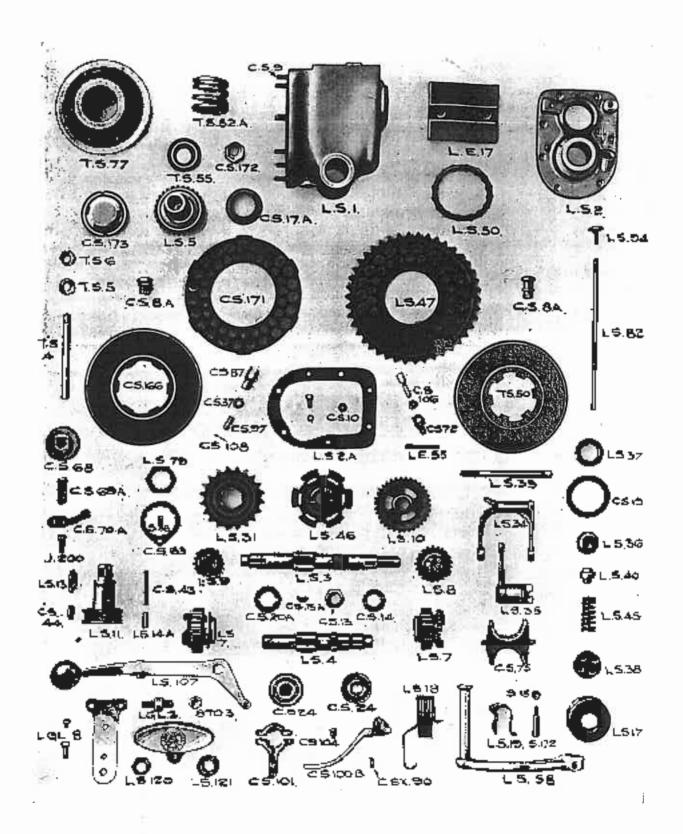
| L/3 E. 143 L/3 E. 145 L/3 E. 100 L/3 E. 38 L/3 E. 207 L/3 E. 207 | R.—contd. Rollers for hig end (4 each) per set Rollers and cage (assembled) mission side of crankcase Hardened steel outer race for same Hardened outer race for big end Rocker or cam lever (inlet) Rocker or cam lever (exhaust) | for tr | ans- | £ | s 3 7 4 6 4 | d. 8 6 6 9 9 |
|---|--|------------|------|---|----------------------------|-----------------------------|
| 1 | . S. | | | | | |
| L/3 E. 158 L/3 E. 246 L/3 E. 119 | Sparking plug with C. and A. wash Sparking plug C. and A. washer on Spring for valves (inlet or exhaust) Spring for exhaust valve lifter | ly each | | | 5 | 0 2 6 |
| L/3 E. 252 L/3 E. 123 L/3 E. 227 L/3 E. 236 | Sprocket for engine shalt (transmis Screw for timing gear cover (each) Stud for timing gear cover (each) | | | | 6 | 2 6 7 5 |
| S.T.D. 5 L/3 E. 122 L/3 E. 261 L/3 E. 263 | Nut for stud Sprocket for magneto chain (see ma | | | | ī2 | 9 5 |
| I./3 E. 264 L.E. 86/S S.T.D. 5 L/3 E. 262 | Strap for support to rear end Bolt for silencer support strap Nut for same Silencer tail pipe | 171 | ••• | | 0 | 5 4 2 6 |
| L/3 E. 248 | Exhaust pipe | | | | 9 | 6 |
| L/3 E. 225 L/3 E. 281 | Tappet guide (inlet or exhaust) Tappet complete (inlet or exhaust) | | | | 4 2 | 3 |
| L/3 E. 222 L/3 E. 210 L/3 E. 223 | Tappet body only Tappet head only Tappet head lock nut | | | | 2 | ó 6 4 |
| L/3 E. 203a L/3 E. 233 L/3 E. 230 | Timing gear cover bush (see bushes Timing gear small pinion |) | | | 8 4 | 3 6 |
| L/3 E. 71 L/3 E. 232 L/3 E. 269 S.T.D. 11 | Nut for securing to engine shaft Timing gear cam shaft Nut for fixing magneto sprocket (sp | ecial) | | | 2 | 5 0 T |
| | Washer for same Inlet valve cam lever Exhaust valve cam lever Cam lever axle | | | | 4 4 | 9 9 0 |
| L/3 E. 249 L/3 E. 237 L/3 E. 236 | Cam lever axle spacing collar Timing gear cover screw • Timing gear cover stud | | | , | | 7 3 5 |
| S.T.D. 5 | Nut for above | | | | | 2 |

Ų,

| | , +, | | | |
|------------------------|--|---|-----|-------------|
| L/3 E. 243 | Union nut for exhaust pipe | | 3 | 3 |
| L/3 E. 284 | Union nut for oil pipe | | | 4 |
| L/3 E. 247 | Union for oil pipe (screws into crankcase | *** | | |
| L/3 E. 287 | Union for oil pipe (screws into tank) | | 2 | 3 |
| | Nipple for oil pipe (each) | | | 3 3 |
| | | | • | |
| • | V. | | | |
| L/3 E. 205 | Valve inlet (stem only), nickel | | - 5 | 0 |
| L/3 E. 282 | Valve inlet complete with spring, cap and | | | • |
| the record | cotter | 414 | -6 | 4 |
| L/3 E. 206 | Valve exhaust (stem only), stainless | | 6 | O |
| L/3 E. 285 | Valve exhaust complete with spring, cap : | | 4 | |
| L/3 E. 119 | Valve spring (each) | *** | 7 | 6 |
| L/3 E. 227 | Valve spring ran (hottom) such | 411 | | |
| L/3 E. 226 | Value envise can (ton) each | 41- | | 5 |
| L/3 E. 204 | Valve cap for cylinder (aluminium) each | | | 0 |
| L/3 E. 250 | Value cotton (each) | | 3 | |
| L/3 E. 224 | Value anide (anale) | 111 | 9 | 3 |
| L/3 E. 225 | Makes toward milds (see inspects) | | 3 | 9 |
| L/3 E. 215 | Value lifter harral (coromod) | -11 | r | ٥ |
| L/3 E. 217 | 77-1 1544 11 314 f | +11 | _ | |
| L/3 E. 216 | locking but for above | 1 | | 7 |
| E/3 E. 212a | 1/- 15f4 4 | •• | I | 4 |
| L/3 E. 212 | Valve lifter lever (inside timing case) | | 1 | 6 |
| L/3 E. 211 | Value lifter com blook | .,. | - | |
| L/3 E, 219 | Value lifter som abnalle -od | 7 | Ε. | 3 4 6 |
| L/3 E, 238 | Din tanahara | | I | ž |
| S.T.D. 14 | Split air | | | ĭ |
| L/3 E. 252 | Value lifter engine | • • • • | | 2 |
| L/3 E. 214 | Shookla and and for sable ningle | | ٠ | |
| L/3 E. 218 | Valve lifter cable nipple (engine end) | 1-1 | ŗ | 0 |
| L.E. 184 | Valve lifter cable nipple (lever end) | | | 3 |
| L.E. 35 | Valve lifter cable (inner and outer) | | 2 1 | 3 |
| L.E. 186 | Value lifter cable (outer on a) | | | |
| L.E. 185 | Value lifter cable (inner cable) | • | 2 | I |
| L.F. 119 | Walse lifter layer (see bandlebare) | | | 9 |
| D.1. 119 | varve miter lever (see mandiculars) | • | | |
| | ENGINE PLATES AND BOLTS. | | | |
| Ila H ses | Rear engine plate fleft or right) | | _ | e |
| L/3 E. 253 | Rear engine plate (left or right) | ••• | | 8 |
| L/3 E. 254 | Front engine plate (left or right) | 171 | | 8 |
| L/3 F.R. 58 | Footrest plate (left side) | | | 8 |
| L/3 F.R. 59 L.E. 14 | Footrest plate (right side) | | | 0 |
| L.E. 14 | Engine plate bolt & long for magneto chair | · () | | |
| L.E. 16 | | ••• | | 9 7 |
| A 44 To | | | | 7 |
| S.T.D. 3 | Nuts for above (each) | | | 3 |
| | | | | |

| | | Engine Plates and Bolts-conid. | , | _ | a |
|--|--|---|---|---|------------------------------------|
| L.E. 1 L/3 E. L.E. L.F. L.E. S.T.D. | 239 15 61 75 61 | Footrest plate engine bolts 5/16° long (each) Engine bolt 5/16° short for crankcase Engine plate for frame lug (front) Engine plate bolt for frame lug (rear top) Engine plate bolt for frame lug (rear lower) Engine plate bolt for clamping gear box (each) Nuts for above bolts (each) | £ | 5. | d. 5 5 5 5 5 2 |
| | | GEAR BOX. | | | |
| L.S. L.S. L.S. L.S. L.S. L.S. C.S. S. S. L.S. L. | 1.23456789011234 17892319354423343638904557 | Gear box end plate Gear box main driving shaft Layshaft only Main shaft high speed or sleeve pinion Middle gear sliding pinion for mainshaft Middle gear sliding pinion for layshaft Layshaft pinion Low gear and kickstarter pinion Kickstarter shaft or axle—supplied only Layshaft bush—assembled Kickstarter pawl Kickstarter pawl pin Kickstarter crank return spring cover Kickstarter crank return spring Kickstarter crank relief cam Sprocket for rear chain Sprocket fixing nut Chain sprocket locking plate Screw for same K.S. Pawl Spring K.S. Pawl Spring plunger Ball bearing cup Kickstarter cap Kickstarter axle bush Striking gear lever Oil retainer cap Rocking shaft lever bush Rocking shaft end bush or cap Rocking shaft Rocking shaft nut Compensator spring for rocking shaft Striking fork plate or slipper Gear box top guide plate | 2 | 16 13 16 8 10 5 4 9 12 1 | 660600006 330073695113366630646569 |
| S. S. P | 172 15 70 | Nut for same | | | 2 2 I |

GEAR BOX PARTS



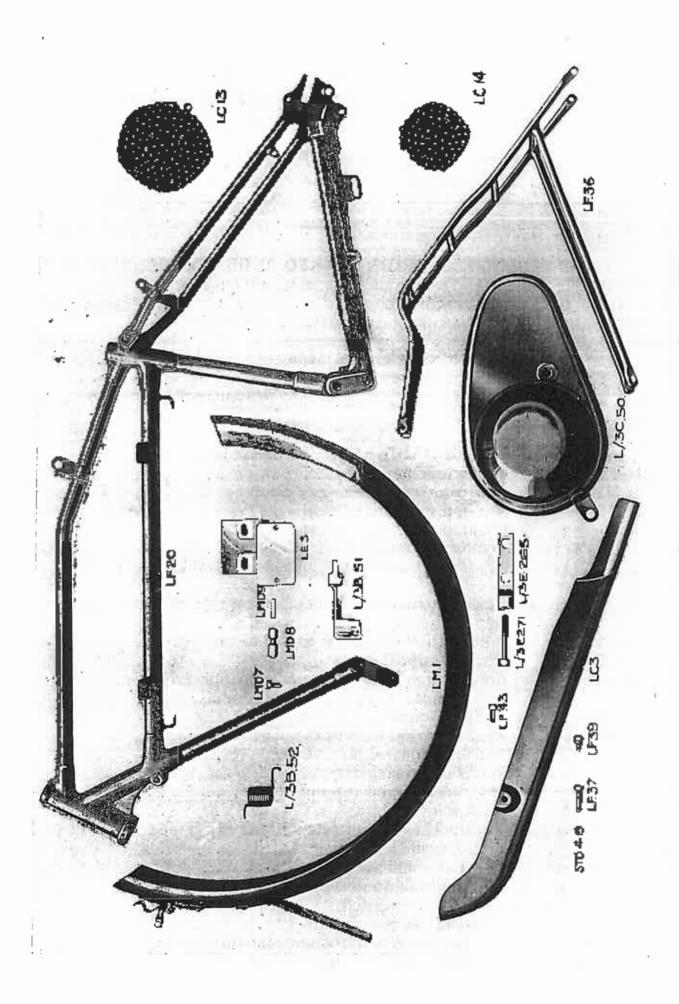
GEAR BOX-confd

| | | ================================= | | | , |
|--------------------------|--------|--|---|--------|----------|
| L.S. | 2a | Gear box end plate paper washer | £ | s. | d, I |
| L.S. | 58 | Kickstarter crank | | 12 | _ |
| C.S. | 24 | Ball bearing for layshaft or main shaft | | -8 | |
| C.S. | 8a | Gear box filling or drain plug | | ., | _ |
| C,S. | 67 | Packing or adjusting washers (each) | | | 9 |
| T.S. | 6 | Gear box fixing students (each) | | | |
| T.S. | 5 | Spring washer for same (asah) | | | 3· 2 |
| T.S. | 4 | Gear box stud (each) | | | |
| C.S. | | Gear how end white nute (each) | | | 5 |
| C.S | 9 | Gear box end plate stud (each) | | | 2 |
| C.S. | 143 | Bolt for securing kicketerror graph and a | | | 3- |
| | E. 265 | Great boy adjuster (for front chain) | | _ | 3. |
| I/3I | E. 271 | Special long holt for same | | I | 4 |
| C.S. | 202 | Main avla rhenst mocho- | | _ | 7 |
| 0.0. | 204 | Main axie tirrust wasner | | Į | 9 |
| | | CLUTCH PARTS. | | | |
| L.S. | rah | 1 rolling (pagh) | | | |
| | 506 | † rollers (each) | | | Z |
| L.S. | 50 | Roller cage | | 2 | O. |
| L.S. | 46 | Clutch centre | | 13 | б |
| L.S. | 47 | Clutch sprocket | I | 6 | 0. |
| T.S. | 49a | Clutch outer plate | | 2 | 6 |
| T.S. | 50 | Clutch back plate | | 2 | 6 |
| C.S. | 166 | Clutch centre plate | | 2 | 6 |
| C.S. | 171 | Clutch friction plate with inserts | | 5 | 0 |
| T.S. | 77 | Clutch spring cup | | 3 | 0 |
| T.5, | 52a | Clutch spring | | r | 8 |
| C.S. | 173 | Clutch end cap | | T | 6 |
| LS. | 82a | Clutch rod | | | 10 |
| L.S. | 94 | Clutch thrust pin | | | 10 |
| C.S. | 172 | Clutch spring nut | | | 9 |
| T.S. | 55 | Clutch spring collar (fits over above) | | | 9 |
| C.S. | 13 | Axle nut (fixing clutch hub) | | | |
| C.S. | 14 | Axle nut lock washer | | | 5 I |
| C.S. | 15a | Axle key for clutch hub | | | 3 |
| C.S. | 68 | Clutch worm nut | | 5 | ŏ |
| C.S. | 69a | Clutch worm | | ĭ | |
| c.s. | 70a | Clutch worm lever | | 2 | 9 6 |
| J. C.S. | 200 | Clutch worm lever pinch bolt | | | I |
| | 72 | Clutch cable adjuster support stud | | I | 0 |
| C.S. | 106 | Clutch cable stop with nut | | | |
| L.E. | 52 | Clutch cable (inner and outer) with nipples | | 5 | 8 |
| L.E. | 53 | Clutch cable (outer) | | 3 | 6 |
| $\mathbf{L}.\mathbf{E}.$ | 54 | Clutch cable inner | | Э I | 6 6 |
| L.E. | 55 | Clutch cable spring | | | 3 |
| C.S. | 100p | Clutch handlebar lever (see handlebars) complete | I | | 0 |
| C.S. | 100 | Lever portion only | | | 0 |
| C.S. | 104 | Lever fulcrum bolt and nut | | | 3. |
| CS.X. | | Lever clip screw (each) | | | .). I |
| | - | 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | - |

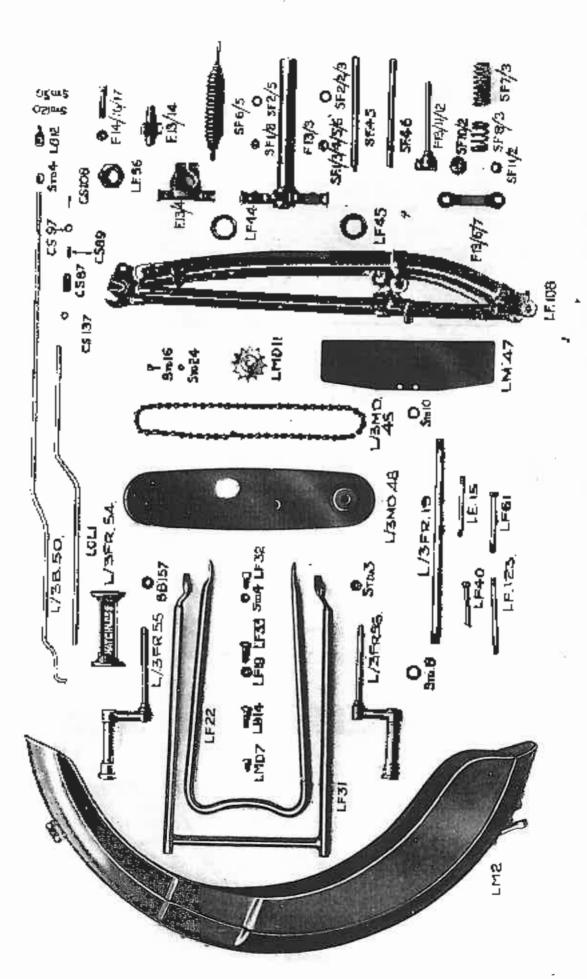
GEAR CHANGE PARTS

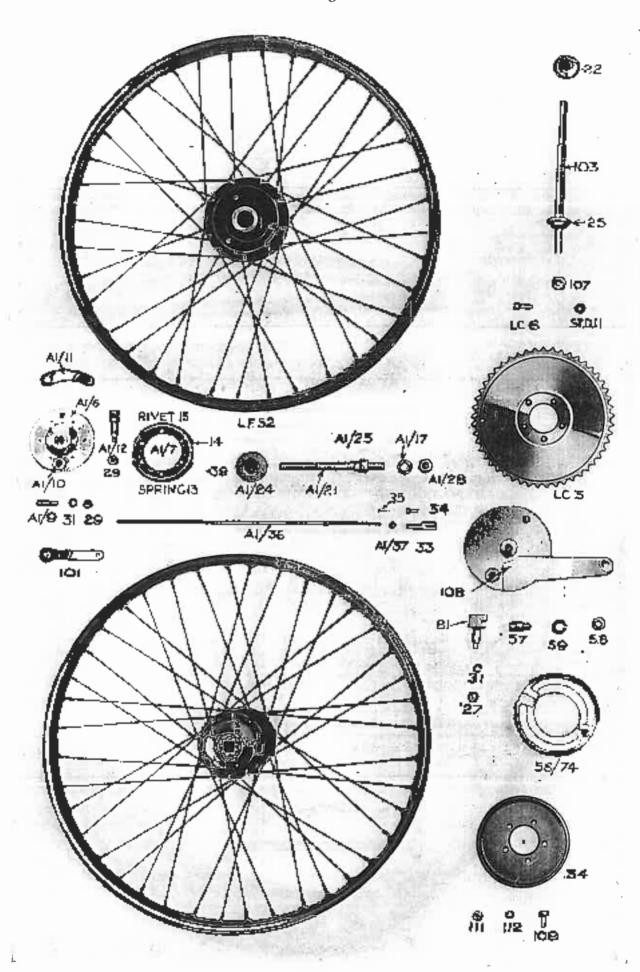
| | | | | | ſ | S. | d. |
|-----------------------------|--------------------------|----------------|---------------------|--------------|---|----|----------------|
| L.G.L. 10 | Gear lever complete wi | ith gate | | | Ī | 7 | |
| L.G.L. 8 | Gate with tank plate of | | | 141 | | 6 | |
| L.G.L. 6 | Gate fixing bolt | - | | | | | 3 |
| L.G.L. 3 | Fulcrum stud for gear | | | | | I | |
| JS. 120 | Cap nut for same | | | | | | 5 |
| L.S. 121 | Spring washer | | 4-1 | | | | 4 |
| S.T.D. 5 | Not for gate fixing stu | id | 461 | | | | ż |
| L.S. 107 | Gear lever with ball | | 4.4 | | | 5 | |
| L.G.L. 9 | Gear rod complete | | | | | _ | ΙI |
| C.S. 87 | Gear rod yoke end (ea- | | | | | | JO |
| C.S. 37 | Lock nut for same | | | | | | I |
| C.S. 97 | Yoke end pin | | | | | | 2 |
| C.S. 108 | Split pin for same (per | | | | | | 6 |
| | | • • • • | | | | | |
| | FRAME AND FO | DRK PART | S. | | | | |
| $L/_3$ F. 201 | Complete frame | | | | 5 | 2 | 6 |
| 1F. 44 | Steering head race (ea- | | | | | I | 9 |
| L.F. 123 | Seat lug bolt and sadd | le support | | | | | 9 8 |
| 5.T.D. 4 | Nut for same (each) | | 4-1 | | | | 2 |
| L.F. 124 | Distance tube (each) | | | | | | 4 |
| S.T.D. 11 | Washer (each) | | | | | | I |
| L.F. 40 | Rear chain adjuster be | olts (see also | chains | i) | | | 9 |
| L.F. 73 | Front forks complete | with stand | and n | nud- | | | |
| | guard | | | | 4 | 19 | 6 |
| 1F. t3 | Front forks complete (I | | | | 3 | 12 | -6 |
| F. 13/3 | Fork crown and stem | | | | | 8 | 4 |
| L.F. 56 | Steering head adjusting | gnut (encirc | ling har | odle- | | | |
| _ */ | bar stem) | | | | | τ | 2 |
| F 13/4 | Fork head clip | | | | | 3 | I |
| $\mathbf{F}_{1} = 14/16/17$ | Pinch bolt and nut for | same | | | | | 8 |
| S.F. 7/3 | Top buffer spring long | | | | | | 8 |
| S.F. 10/2 | Top buffer spring shor | t front | | | | | 5 |
| F. 13/11/12 | Buffer spring T piece L. | .H. and spin | die) _{ne} | rpr. | | | |
| L | Buffer spring T piece R | .H. ,, , | . J P | 1 | | 2 | ΙI |
| S.F = 8/3 | Buffer spring thrust n | ut (cach) | • • • | | | | 4 |
| S.F. 11/2 | Cap lock nut for same | (each) | ••• | *** | | | 4 |
| F. 13/13/14 | Buffer spring cross piec | ce with lubri | icator (j | pair) | | 2 | 4 5 |
| S.F. 15/I | Lubricator only for ab | | | | | | 2 |
| S.F. 6/5 | Vertical coil spring cor | | | | | 2 | IO |
| S.F. 9/2 | Screw only for above (| each) | | | | | 2 |
| S.F. 1/8 | Nut for screw (per doz | | | | | I | 7 |
| $IF. = r_3/a$ | Front fork girder porti | ion only | | | 2 | 2 | I |
| J.,F. 115 | Crown and stem with e | | | | | | 0 |
| F. 13/6/7 } | Bottom fork spindle lin | ik or shackli | L.H. |) { pr. = | | I | 3 |
| | Bottom fork spindle lin | | |) 1 | | | |
| S.F. 4/5 | Bottom fork spindle 7/ | | • · · | • • • | | | 4 1 |
| | L.H nut for same (eac | | 4.4 | *** | | | 2 |
| 5 x 1/3 mm 4 | R.H. nut for same (ea- | ch) | | 141 | | | 2 |
| | | | | | | | |

| | | Frame and Fork Parts-contd | | £ | 5. | d. |
|--------------------------------|----------------|--|---------|-----|-----|-------------|
| S.F. | 4.6 | Top fork spindle &" (each) | | Z | .>- | |
| C 12 - | i Ianaan in | { L.H. nut fo: same (each) | | | | 4 2 |
| 3.F. I | 3 and 4 | (R.H. nut for same (each) | 47. | | | 2 |
| L.F. | 45 | Fork crown ball race | | | I | |
| $\mathbf{L}.\mathbf{F}.$ | 71 | Set of steering head balls (42 in No.) | | | | 7 |
| | | LUGGAGE CARRIER AND TOOL BOX | | | | - |
| L.F. | 36 | luggage carrier complete | _ | | | - |
| L.F. | _ | Bolt for fixing same (top) | | | 14 | |
| S.T.D. | | Nut for above | | | | 4 2 |
| S.T.D. | | Washer for above | | | | I |
| 212.21 | | | | | | _ |
| H.M. | | GGAGE CARRIER AND TOOL BOX (Co | ntd.) | | | |
| S.T.D. | , | Bolt for fixing carrier to rear mudguard | ••• | | | 3 |
| L.F. | | Nut for above | • • • | | | 2 |
| L.F. | 39 | Bolt for fixing carrier (bottom end) each | | | | 2 |
| H.M. | _ | Tool box for luggage carrier Bolts for fixing same (each) | | | 15 | |
| S.T.D. | 7 | Nut for above (each) | *** | | | 3 |
| L.F. | 5 161 | | • • • • | | _ | 2 |
| L.F. | | Rear number plate (see also mudguards) Tool box lock | | | I | |
| 12.11, | +20 | TOOK DOX TOCK , , | ••• | | I | 2 |
| | | MUDGUARDS AND MUDSHIELDS. | | | | |
| L.M. | 2 | Front mudguard | | | 15 | 6 |
| H.M. | 7 | Front mudguard fixing bolt (each) | | | ~ | |
| S.T.D. | 5 | Nut for same | | | | 3 2 |
| L.M. | 32 | Front stand fixing screw | | | | 4 |
| L.M. | Ι | Rear mudguard, | | | 12 | 9 |
| $\mathbf{L}_{i}\mathbf{F}_{i}$ | 4 T | Rear mudguard fixing bolt for chain s | stay | | | - |
| | | bridge | | | | 6 |
| L.F. | 41 | Rear mudguard fixing bolt for top stay bri | .dge | | | б |
| S.T.D. | 5 | Nut for above | | | | 2 |
| H.M. | 7 | Bolt for fixing rear mudguard to carrier | | | | 3 |
| S.T.D. | ** | Nut for same | | | | 2 |
| H.M. | 7 | Bolt for fixing rear mudguard to tool box | | | | |
| 0.00 | | (each) | | | | 3 |
| S.T.D. | 5 | Nut for above | *** | | | 2 |
| L.M. | 29 | Rear mudgnard stand clip stud | ••• | | | 4 |
| Ş.T.D. | 5 28 | Nut for same inside mudguard | 4 | | | 2 |
| L.M. | | Stand clip spring | • • • | | | I |
| L.M. | 30 | Stand clip spring cup nut | ••• | | | 3 |
| S.T.D. | 5 | Lock nut for above | | J. | | 3 2 6 |
| L/3 M. | | Mudshields complete with all fittings | | . 1 | [2 | |
| L/3 M. | 39 | Left side shield only | | | 4 | 9 |
| L/3 M. | 38 | Right side shield only | | | 4 | 9 |
| L/3 M. | 40 | Top mudshield rod | 4-1 | | 1 | O. |
| S.T.D. | 4 | Nuts for same (each) | 4.1 | | | 2 |
| S.T.D. | 11 | Washers for same (each) | | | | 1 |
| L/3 M. | 42 | Top mudshield rod distance tube (right) | 4.15 | | | 5 |
| L/3 M. | 36 | Top mudshield rod distance tube (left) | 4-1 | | | 5 |



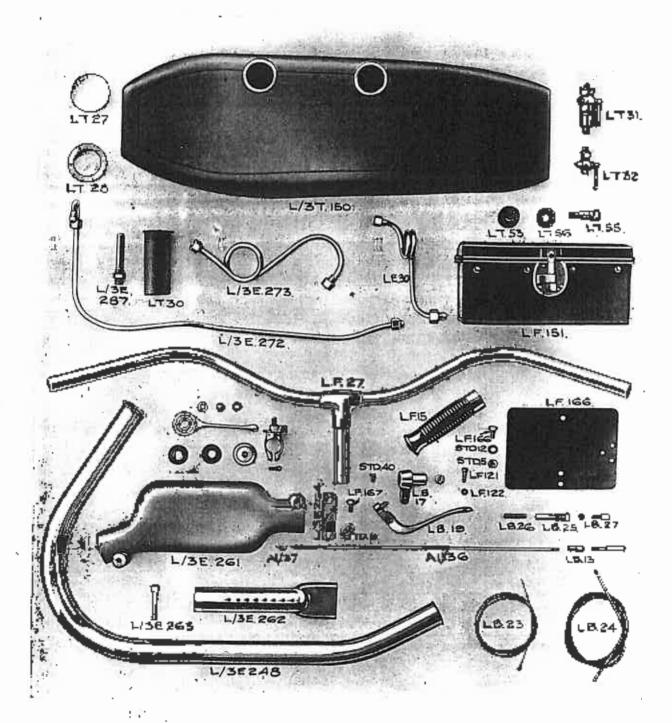
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| | .11 | | | | | | |
|--|--|--|---|--------|----------------------------------|------------------------------------|---|
| | Mudguards and M | udshield | ls—con. | a. | | | |
| | | | | | 1 | § 5. | d. |
| I./3 M. 41 | Bottom mudshield ro | d | | | ^ | | 8 |
| 5. ř.D. 4 | Nut for same (each) | | | | | | 2 |
| S.T.D. rr | Washer for same (each | | | | | | I |
| L/3 M. 43 | Bottom mudshield roo | | | | | | |
| L/3 M. 37 | Bottom mudshield roo | | | | | | 5 5 |
| L.M. 62 | Front stand step com | | | | ••• | 2 | |
| L.M. 63 | Rear stand step comp | | | | | 2 | |
| 2 | | | | | | - | ٠ |
| | TANK AND FI | TTINGS | | | | | |
| L/3 T. 153 | Tank complete with a | | | | | 3 15 | 6 |
| L/3 T. 150 | Tank less all fittings | | | | | 2 6 | |
| | Petrol tap and filter | | • | | | 4 | |
| L.T. 31 L.T. 31a | Filter only | *** | ••• | *** | | 4 | 6 |
| L.T. 32 | Petrol drain tap | | | | | I | |
| L.E. 39 | Petrol pipe (for AMAC | | | | | 4 | |
| LE. 30 | Petrol pipe (for B. & 1 | | | | | | |
| L.T. 28 | Petrol tank filler cap (| | | | | 4 2 | |
| L.T. 28a | Glass top only for abo | | | | • • • | _ | _ |
| L.T. 30 | Gauze strainer for pet | | | | | I | 9 |
| L.T. 28 | Oil tank filler cap | CI Canr. | | | 1 | I | 7 |
| L.T. 55 | Tank fiving holts lead | hi | | | | _ | 9 7 6 |
| L.T. 53 | Tank fixing bolts (each | rr er reed | | | | | |
| L.T. 56 | Tank fixing bolt wash | | , | , | | | 5 |
| 1.1. | | | | | | | |
| | Oil pine connection ar | d filter | cembin | ed , | | 2 | |
| L/3 E. 387 | Oil pipe connection ar | d filter | cembin | ed , | •• | 2 | 3 |
| | Oil pipe connection are | d filter | cembin | ed , | | 2 | |
| L/3 E. 387 | Oil pipe connection an | d filter DS . | cembin | æd , | •• | | 3 |
| L/3 E. 387 L.F. 31 | Oil pipe connection an STANI Rear stand | d filter | eembin | .ed , | | 10 | 3 9 |
| L/3 E. 387 L.F. 31 L.F. 38 | Oil pipe connection are STANI Rear stand Fixing bolts (each) | od filter DS. | ccmbin | .ed , | •• | | 9 |
| L/3 E. 387 L.F. 31 L.F. 38 L.F. 19 | Oil pipe connection are STANI Rear stand Fixing bolts (each) Nut for same (each) | od filter DS | ccmbin | | | 10 | 9 |
| L/3 E. 387 L.F. 31 L.F. 38 L.F. 19 L.F. 22 L.F. 32 | Oil pipe connection are STANI Rear stand Fixing bolts (each) Nut for same (each) Front stand | od filter DS | ccmbin | ed , | | | 9 |
| L/3 E. 387 L.F. 31 L.F. 38 L.F. 19 L.F. 22 L.F. 32 | STANI Rear stand Fixing bolts (each) Nut for same (each) Front stand Fixing bolts (each) | od filter | cembin | ed , | | 10 | 3 9 3 4 6 3 2 |
| L/3 E. 387 L.F. 31 L.F. 38 L.F. 19 L.F. 22 | Oil pipe connection are STANI Rear stand Fixing bolts (each) Nut for same (each) Front stand | od filter | cembin | ed , | | 10 | 9 |
| L/3 E. 387 L.F. 31 L.F. 38 L.F. 19 L.F. 22 L.F. 32 L.F. 159 | STANI Rear stand Fixing bolts (each) Nut for same (each) Front stand Fixing bolts (each) Mut for above Washer for above | od filter | cembin | ed , | | 10 | 3 9 3 4 6 3 2 |
| L.F. 31 L.F. 38 L.F. 19 L.F. 22 L.F. 32 L.F. 159 S.T.D. 11 | STANI Rear stand Fixing bolts (each) Nut for same (each) Front stand Fixing bolts (each) Nut for above | od filter | cembin | ed , | | 10 | 3 9 3 4 6 3 2 1 |
| L.F. 31 L.F. 38 L.F. 19 L.F. 22 L.F. 32 L.F. 159 S.T.D. 11 | STANI Rear stand Fixing bolts (each) Nut for same (each) Front stand Fixing bolts (each) Mut for above Washer for above Front stand fixing screen | od filter OS. | cembin | ed , | | 10 | 3 9 3 4 6 3 2 1 |
| L.F. 31 L.F. 38 L.F. 19 L.F. 22 L.F. 32 L.F. 159 S.T.D. 11 L.M. 32 | STANI Rear stand Fixing bolts (each) Nut for same (each) Front stand Fixing bolts (each) Mut for above Washer for above Front stand fixing screen | d filter DS | cembin | ed , | | 10 | 3 9 3 4 6 3 2 1 4 |
| L.F. 31 L.F. 38 L.F. 19 L.F. 22 L.F. 32 L.F. 159 S.T.D. 11 L.M. 32 | STANI Rear stand Fixing bolts (each) Nut for same (each) Front stand Fixing bolts (each) Nut for above Washer for above Front stand fixing screen REAR WHEEL AND Rear wheel complete w | d filter OS. | cembin | ed , | 6 | 10 4 | 3 9 3 4 6 3 2 1 4 |
| L.F. 31 L.F. 38 L.F. 19 L.F. 22 L.F. 32 L.F. 159 S.T.D. 11 L.M. 32 L.F. 63 L.F. 66 | STANI Rear stand Fixing bolts (each) Nut for same (each) Front stand Fixing bolts (each) Mut for above Washer for above Front stand fixing screen REAR WHEEL AND Rear wheel complete w Rear wheel complete le | ed filter DS. | cembin | ed , | | 10 4 | 3 9 3 4 6 3 2 1 4 |
| L.F. 31 L.F. 38 L.F. 19 L.F. 22 L.F. 32 L.F. 159 S.T.D. 11 L.M. 32 L.F. 63 L.F. 66 L.F. 110 | STANI Rear stand Fixing bolts (each) Nut for same (each) Front stand Fixing bolts (each) Washer for above Front stand fixing screen REAR WHEEL AND Rear wheel complete w Rear wheel complete le Rear wheel, less all fitte | ed filter DS. w (see a second se | cembin | dguard | 6 | 10 4 | 3 9 3 4 6 3 2 1 4 |
| L.F. 31 L.F. 38 L.F. 19 L.F. 22 L.F. 32 L.F. 159 S.T.D. 11 L.M. 32 L.F. 63 L.F. 66 L.F. 110 L.F. 150 | STANI Rear stand Fixing bolts (each) Nut for same (each) Front stand Fixing bolts (each) Nut for above Washer for above Front stand fixing screen REAR WHEEL AND Rear wheel complete w Rear wheel complete le Rear wheel, less all fitt Rear wheel chain sproof | ed filter OS. BRAK ith tyre ss tyre tings cket (So | cembin | ed , | 6 | 10 | 3 9 3 4 6 3 2 1 4 3 9 6 0 |
| L.F. 31 L.F. 38 L.F. 19 L.F. 22 L.F. 32 L.F. 159 S.T.D. 11 L.M. 32 L.F. 63 L.F. 66 L.F. 110 L.C. 5 L.C. 26 | STANI Rear stand Fixing bolts (each) Nut for same (each) Front stand Fixing bolts (each) Nut for above Washer for above Front stand fixing screen REAR WHEEL AND Rear wheel complete w Rear wheel complete le Rear wheel chain sproc Rear wheel chain sproc Rear wheel chain sproc Rear wheel chain sproc | BRAK ith tyre ss tyre tings tket (So | cembin | dguard | 6 | 10 4 9 7 | 3 93463214 396062 |
| L.F. 31 L.F. 38 L.F. 19 L.F. 22 L.F. 32 L.F. 159 S.T.D. 11 L.M. 32 L.F. 63 L.F. 66 L.F. 110 L.C. 5 L.C. 26 L.C. 6 | STANI Rear stand Fixing bolts (each) Nut for same (each) Front stand Fixing bolts (each) Nut for above Washer for above Front stand fixing screen REAR WHEEL AND Rear wheel complete w Rear wheel complete le Rear wheel chain sproc | ed filter OS. | cembin | dguard | 6 | 10 4 9 7 | 3 93463214 3960621 |
| L.F. 31 L.F. 38 L.F. 19 L.F. 22 L.F. 32 L.F. 159 S.T.D. 11 L.M. 32 L.F. 63 L.F. 66 L.F. 110 L.C. 5 L.C. 26 L.C. 6 S.T.D. 11 | STANI Rear stand Fixing bolts (each) Nut for same (each) Front stand Fixing bolts (each) Nut for above Washer for above Front stand fixing scree REAR WHEEL AND Rear wheel complete w Rear wheel complete le Rear wheel chain sproc | BRAK ith tyre ss tyre tings cket (So cket (Sie c(cach) | cembin | ed , | 6 | 10 4 9 7 13 8 | 3 93463214 3960621 |
| L.F. 31 L.F. 38 L.F. 19 L.F. 22 L.F. 32 L.F. 159 S.T.D. 11 L.M. 32 L.F. 66 L.F. 110 L.C. 5 L.C. 26 L.C. 6 S.T.D. 11 W.B. 54 | STANI Rear stand Fixing bolts (each) Nut for same (each) Front stand Fixing bolts (each) Front stand Fixing bolts (each) Nut for above Washer for above Front stand fixing screen REAR WHEEL AND Rear wheel complete we Rear wheel complete le Rear wheel chain sprod Fixing screws for same Washer for same (each Rear wheel brake drun | BRAK ith tyre ss tyre tings tket (So cket (Sie c (cach) | cembin | dguard | 6 | 10 4 9 7 | 3 93463214 3960621 |
| L.F. 31 L.F. 38 L.F. 19 L.F. 22 L.F. 32 L.F. 159 S.T.D. 11 L.M. 32 L.F. 66 L.F. 110 L.C. 5 L.C. 26 L.C. 6 S.T.D. 11 W.B. 54 W.B. 109 | STANI Rear stand Fixing bolts (each) Nut for same (each) Front stand Fixing bolts (each) Nut for above Washer for above Front stand fixing screen REAR WHEEL AND Rear wheel complete we Rear wheel complete le Rear wheel chain sproce Rear wheel chai | ed filter DS. | cembin | dguard | 6 | 10 4 9 7 13 8 | 3 93463214 3960621 |
| L.F. 31 L.F. 38 L.F. 19 L.F. 22 L.F. 32 L.F. 159 S.T.D. 11 L.M. 32 L.F. 63 L.F. 66 L.F. 110 L.C. 5 L.C. 26 L.C. 6 S.T.D. 11 W.B. 54 W.B. 109 W.B. 110 | STANI Rear stand Fixing bolts (each) Nut for same (each) Front stand Fixing bolts (each) Nut for above Washer for above Front stand fixing scree REAR WHEEL AND Rear wheel complete w Rear wheel complete le Rear wheel chain sprod Rear wheel chain sprod Rear wheel chain sprod Rear wheel chain sprod Fixing screws for same Washer for same (each Rear wheel brake drur Fixing bolts (each) Nut for same (each) | BRAK ith tyre ss tyre tings cket (Sie c (cach) | cembin | ed , | 6 6 4 | 10 4 9 7 13 8 10 | 3 93463214 3960621 |
| L.F. 31 L.F. 38 L.F. 19 L.F. 22 L.F. 32 L.F. 159 S.T.D. 11 L.M. 32 L.F. 66 L.F. 110 L.C. 5 L.C. 26 L.C. 6 S.T.D. 11 W.B. 54 W.B. 109 | STANI Rear stand Fixing bolts (each) Nut for same (each) Front stand Fixing bolts (each) Nut for above Washer for above Front stand fixing screen REAR WHEEL AND Rear wheel complete we Rear wheel complete le Rear wheel chain sproce Rear wheel chai | BRAK ith tyre ss tyre tings cket (Sie c (cach) | cembin also mu E PAR decar) | ed , | 6 6 1 | 10 4 97 13 8 10 | 3 93463214 396062 |

TANK, HANDLEBAR, SILENCER, Etc., PARTS



| | Rear Wheel and Brake Paris contd. | | £ | S. | đ. |
|----------------|--|---|-----|--------|------------------|
| W.B. 56/60 | Brake shoes (per pair) with linings and co | n- | | | |
| 61/74 | traction spring | | I | I | 3 |
| W.B. 60/6x | Ferodo linings only, with rivets (per set) | | | 6 | _ |
| W.B. 74 | Spring for brake shoes | | | Ĭ | 9 |
| W.B. 57 | Brake shoe fulcrum stud | | | | 10 |
| W.B. 58 | Nut for same | | | | |
| W.B. 8J. | Brake shoe expander | | | 1 | 4 7 |
| W.B. 101 | Brake shoe expander lever | | | • | |
| W.B. 27 | Nut for above | • • • | | | 94 |
| W.B. 31 | Spring washer | • | | | 3. 2. |
| L/3 B. 50 | Rear brake rod | • • • • | | - 2 | - |
| S.T.D. 4 | Nut for came (each) | | | 2 | 5-2 |
| S.T.D. 36 | \mathcal{C}_{-1} | | | | |
| L.B. 12 | Split pin for front end | | | | 8 |
| | Brake rod toggle or cross head Nut for same | • • • • | | | |
| ' | *** | | | | 2 |
| | Washer | • • • | | | I |
| I./3 B. 51 | Rear brake pedal | • • • | | 4 | - 9 |
| L/3 B. 52 | Rear brake pedal return spring | • • • | | | 4 |
| L/3 B. 53 | Rear brake pedal fulcrum stud | | | 2 | 0 |
| S.T.D. 3 | Nut for same | | | | 3 |
| S.T.D. 10 | Washer | | | | 1 |
| L.B. 5 | Long bolt for fixing fulcrum stud | | | | 6 |
| S.T.D. 3 | Nut for same | -,- | | | 3 |
| L.B. 6 | Distance tube for same | | | | 4 |
| W. 103 | Rear wheel spindle | | | 3 | n |
| W.B. 25 | Rear wheel spindle fixed cone | | | I | 9 6 |
| W.B. 22 | Rear wheel spindle adjusting cone | | | ī | 8 |
| W.B. 23 | Dust cap for above | | | • | |
| W.B. 107 | Spindle nuts (cach) | | | | 4 6 |
| W.B. 113 | Spindle washer, plain (sprocket side) | | | | |
| W.B. 17 | Switchle maches domad | | | | 3 |
| L.B. 14 | Bolt for anchoring broke cover plate | | | | 3 |
| | | 4.1 | | | 7 |
| ' | Nut for same | 111 | | | |
| | 73 L - L 1 - L - 1 - 1 - 1 - 1 | | | 2 | 9 |
| W.B. 38 | The state of the s | | | | 6 |
| L.F. 181 | Rim only enamelled , | | | 8 | 6 |
| | TRANS WITHIN AND LANG. | | | | |
| | FRONT WHEEL AND BRAKE PARTS. | | | | |
| L.F. 62 | Front wheel complete with tyre | | 4 . | 3 | 9. |
| L.F. 52 | L4 1 1-4- 1 4 | | 2 I | | |
| L.F. 111 | F | | | 6 | 3 9 |
| AL/6a | Front brake cover plate with shoes, etc. | | | 6 | 3 |
| A1/7/13/14/15 | Shoes only (per pair) with linings and con | | - | | J |
| (/) -3(-4(-3 | traction spring | | | О. Т | т. |
| A1/14/15 | Ferodo linings only (with rivets) (per set) | mu _{es} | | | I |
| A1/13 | Spring for contracting shops | | | 4 I | 2 |
| | (Fixlerism stud for shoes | | | Т | 3 6 3 2 |
| A1/12/29 · · | \ \T | | | | O . |
| | 111 all and and | | | | 3 |
| L.B. 21 | | | | | |
| A1/9 | Front shoe expander | 4 - | | I | 6 |

| . × | Front Wheel and Break Parts-contd. | ∫, ş. | . d. |
|-------------|--|-------|--------------------|
| AI/II | Front shoe expander lever , , | ~ | 6 |
| , | Nut for same | | ٩ |
| | Washer | | 3 I |
| A1/18 | Anchoring link for cover plate | | 6 |
| Ar/26a | Bolt for same (cover end) | | 4 |
| L.B. 22 | Spigot nut for same | | 2 |
| _ | Shouldered bolt for anchor link (fork end of | | - |
| A1/26 | | | |
| 4 - / | | | 4 |
| A1/27 | Nut for above | | 2 |
| AI/3I | Washer | | I |
| A1/36 | Front brake rod only | I | |
| AI/33 | Yoke end | I | _ |
| A1/37 | · Yoke end locking nut | | 2 |
| AI/34 | Yoke end pin | | 4 6 |
| AI/35 | Split pin for same (per dozen) | | |
| L.B. 13 | Reducing nipple for top end of rod | | 6 |
| L.B. 23 | Front brake cable (inner) with nipples | | 9 |
| L.B. 24 | Front brake cable (outer) with thimbles | 1 | 7 |
| L.B. 25 | Front brake cable spring box | I | Ó |
| L.B. 26 | Front brake spring for spring box | | 3 |
| L.B. 27 | Front brake cable stop and lock nut | | 7 |
| | Front brake handlebar lever (see handlebars) | | - |
| L.F. 1119 | T | 2 | 0 |
| A1/21 | The second of th | ī | 6 |
| A1/25 | Front hub spindle adjusting cone | 1 | U |
| AT/22/23/24 |) I I date in we op and a large in a | 2 | 0 |
| | Dust cap for above and washer | | _ |
| A1/28 | Spindle nuts (each) | | 5 |
| A1/17 | Spindle washer (domed) | | 3 |
| A 1/30 | Spindle washer (plain) | | 2 |
| A I/30 | Spindle washer (plain) | | 2 |
| A1/39 | Set of front wheel balls | Z | ٥ |
| A1/38 | Front hub lubricator | | 6 |
| L.F, 181 | Rim only enamelled | - 8 | 6 |
| | | | |
| • 0 | CHAIN GUARDS AND CHAINS. | _ | 6 |
| L.C. 3 | Rear chain guard | 7 | 6 |
| L.F. 37 | Bolt for fixing same (rear end) | | 3 |
| S.T.D. 4 | Nut for above | | 2 |
| L.F. 61 | Bolt for front end (see also engine bolts) | | 5 |
| L/3 C. 52 | Front chain guard fi | 15 | O |
| L/3 F. 200 | Stud for fixing rear end | | 4 |
| L/3 C. 53 | Distance tube for same | | 5 |
| L/3 C. 59 | Long bolt for front end support (see also | | |
| -/3 37 | engine bolts) | | 6 |
| L/3 C. 59 | Distance tube for same | | |
| S.T.D. 3 | Nuts for bolt (each) | | 5 3 0 |
| L/3 M.D. 48 | Magneto chain case | 12 | Ö |
| | Long support bolt (see also engine bolts) | | |
| • | | | 5 |
| L.M.D. 10 | Distance tube | | 9 5 5 |
| L/3 M.D. 50 | Special long nut for support bolt | | 3 |
| | | | |

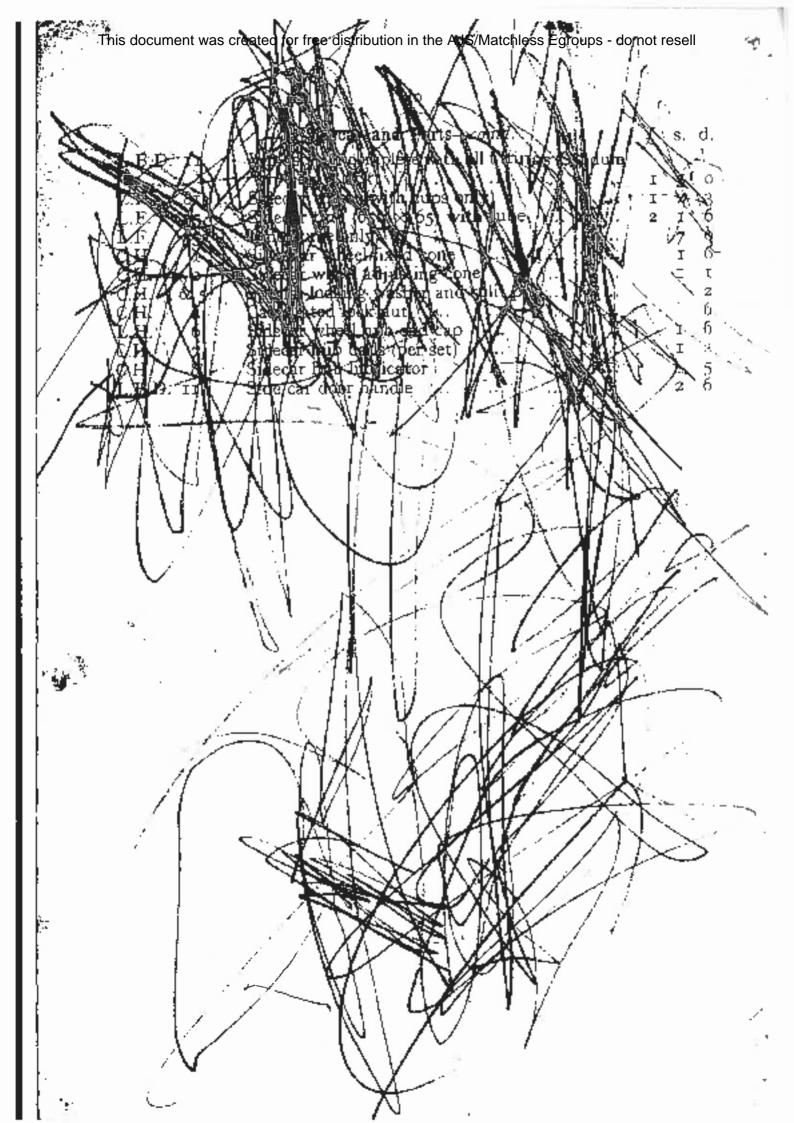
| S.T.D. 3 L.C. 13 L.C. 14 L.C. 19 L.C. 20 L.C. 21 L/3 M.D. 45 L.C. 25 | Chain Guards and Standard nuts for support Rear driving chain \(\right\) \times Front driving chain \(\right\) > Detachable connecting I Spring clip only for about Cranked link Magneto chain (endless Chain rivet extractor \(\right). | ort bolt (e | tches) itches) | | | ı ı | s. d. 0 0 0 8 5 2 7 3 7 |
|--|---|---------------------------------------|------------------------------------|-----------------|---|--------------------|--|
| | FOOTREST AND | PARTS. | | | | | |
| L/3 F.R. 19 S.T.D. I L/3 F.R. 55 L/3 F.R. 56 L/3 F.R. 54 L/3 F.R. 51 L/3 F.R. 52 L/3 F.R. 53 L.F.R. II S.T.D. 3 | Footrest rod only Nuts for same (each) Left side footrest hanger Right side footrest hange Footrest rubber pad asse Footrest rubber pad only Pad centre tube Pad flanges (each) Special spigot washer for Nut for same Footrest engine plates (se | (less pad er (less pa embled wi |) id) th hold spindle | er | | | 1 3 5 6 5 6 2 2 10 5 3 3 |
| | HANDLEBAI | ł. | | | | | |
| L.F. 114 L.F. 27 L.F. 119 L.F. 120 L.F. 121 L.F. 122 S.T.D. 20 | Handlebar with rubber g Handlebar, less grips Inverted lever (left or rig Lever portion only Fulcrum screw for same Nut for above Screw for securing lever b | ht) compl | lete | r , | | 17 13 7 3 | 9 6 9 4 2 |
| SADDLE AND PARTS, | | | | | | | |
| L.F. 60 H.F. 134 H.F. 135 S.T.D. 4 L.F. 123 L.F. 124 S.T.D. 4 S.T.D. 11 L.F. 60a L.F. 60b | Saddle complete with spri Nose bush (hardened stee Saddle nose bolt Nut for same Long spring support bolt Distance tubes (each) Nuts for bolt (each) Washers for bolt (each) Saddle spring only Nuts for saddle spring pos | 1) | ••• | | | 18 2 | 6 9 6 2 9 5 2 1 6 3 |
| MAGNETO AND PARTS. | | | | | | | |
| L.M.D. 41b | Complete magneto Contact breaker only comp Contact screws only (pair) | | | -+1 +4- | 3 | 15 2 12 | 6 6 |

| | Magnetos and | Pariscontd | | | £ | s. | d. |
|-------------------------------|-----------------------------------|-----------------|-------|----------|----|---------|-------------|
| L.M D. 79 | High tension pick up | | | | Į, | э. З | 6 |
| L.M.D. 1052 | Carbon brush only Spring for same | 7 | | | | _ | |
| | Spring for same | (ber ban) | | | | I | Ф |
| L.M.D. 23 | Sparking plug cable v | vith terminal : | end. | | | I | 0 |
| L.M.D. II | Magneto chain sprock | | | | | | Q |
| L.M.D. 175 | Bo.t for same | | • | | | | 2 |
| L/3 E. 122 | Sprocket for camshaft | t end (see also | engin | e) | | 3 | - 6 |
| L/3 E. 269 | Special nut for fixing | same | | | | | II |
| L.E. 3 | Magneto platform or b | base | | | | - 6 | 9 |
| L.M.D. 33 | Bolt for fixing magne | | | | | | 2 |
| S.T.D. 5 | Nut for above | | , | | | | 2 |
| L.M.D. 9 | Magneto chain adjust | er stud | | | | | 5 |
| L.M.D. 8 | Special double headed | | | | | | 5 9 9 |
| L.M.D. 25 | Magneto advance and | | | | | | 9 |
| L,M.D. 26 | Magneto advance and | | | , | | 2 | |
| L.M.D. 27 | Handlebar lever for a | bove complete | ₿.,, | | | 6 | 9 |
| | | | | | | | |
| | MECHANICAL OIL P | HMP AND P | ARTS | | | | |
| | MEONIAMIONE CAR I | O | | | | | |
| 5061/5475 | Oil pump complete | 141 | | | | 19 | 0 |
| 5475 | Tell tale only (comple | | | | | ź | 6 |
| 5475/2 and 9 | Tell tale plunger with | | | | | | 9 |
| 5475/1 | Aluminium pump bod | | | | | 3 | Ó |
| 5475/5 | Steel worm shaft | | | , | | ľ | 0 |
| 54/5/2 | Large centre regulation | ig block | | | | ľ | 6 |
| 5475/9 | Cap for same | | | | | | 6 |
| 5 (1 5) | 5/32" Screws for fixing | | en) | | | | 6 |
| 5475/4 | Pump plunger (steel) | 14- | ••• | | | 1 | 6 |
| 5475/3 | Pump body brass wor | | • • • | | | 1 | 6 |
| 5475/6 i L/3 E. 272 | Pump body screwed of | | | | | | 4 |
| L/3 E. 272 | Oil pipe suction side (| | | | | 5 | 3334 |
| L/3 E. 273 | Oil pipe delivery side | | | | | 4 | 3 |
| | Oil pipe unions (each) | 4 | | | | | 3 |
| | Oil pipe union nuts (e | | | | | | |
| | Oil pump screwed plu | ig and fibre w | asher | • • • • | | | 9 |
| | | | | | | | |
| | CARBURETTO | R B. & B. | | | | | |
| T. D | Complete eachweatter | famous at terms | | | | T. 67 | _ |
| L.E. 19 | Complete carburettor | | | | 2 | 17 | 0 |
| В. & В. т | Float chamber body o | | | | | 7 1 | ស្ថ |
| B, & B. 2 | Float chamber cap an | | | | | 7 | 2 |
| B, & B, 5/6 | Float chamber needle | | | | | 12 | ñ |
| B. & B. 9 B & B. 11 | Float Main jet complete | | | | | | ŏ |
| _ | | | | | | 1 | ī |
| B. & B. 21/22a B. & B. i 3 | Jet taper needle | | 111 | | | ĭ | 9 |
| B, & B. 4 | Needle holder and scre | | | | | • | 7 |
| B, & B. 30 | Spraying chamber | | | | | 8 | 6 |
| D. U. D. 30 | Phraying chautres | | | 141 | | | |

| | - | - 1 | | | | | | |
|---------------|-------------------------|----------|----------|----------|---------|---|-----|------------------|
| | Carburettor B | . & B | -conte | đ. | | £ | 5 | . d, |
| B. & B. 33/36 | Spraying chamber co | ap with | bushe | es | | | 2 | 2 4 |
| B. & B. 49 | Spraying chamber co | | | | | | | 3 |
| B. & B. 52 | Pilot jet (early or la | | | | | | | ΙQ |
| B. & B. 54/5 | Pilot jet air screw ar | nd sprin | ng | | | | | |
| B. & B. 50 | Clip and bolt for inle | et port | ••• | 4-1 | *** | | I | . 7 8 |
| B. & B. 50a | Bolt only | _ | | *** | 4 | | _ | 4 |
| B. & B. 48 | Gauze strainer for ai | | | orated | | | | 5 |
| B. & B. 49 | Cap for same | | { la | ate typ | | | 1 | 5 3 7 2 2 |
| B. &B. 38 | Throttle valve | | | | - | | 4 | . 7 |
| B. & B. 38 | Air valve | | | , | | | 2 | ź |
| B. & B. 41 | Valve springs (pair) | | -14 | | | | I | - 2 |
| L.E. 59 | Control levers comple | ete | | ••• | | | 10 | 3 |
| C. 5 | Air lever only | | | | | | | ΙÏ |
| C. 4 | Throttle lever only | F1- | • | | | | | II |
| C. 22/23 | Control cables (inner | | | | | | 5 | |
| , - | , | | , | • | | | - | 2 |
| | | | | | | | | |
| | CARBURETT | OR A | M.A.C. | | | | | |
| | VIIIIDVIIIII | on A, | A | | | | | |
| A.M.A.C. I | Complete carburetto: | r | | | | 2 | 17 | ٥ |
| A.M.A.C. 2 | Float chamber comp | lete | | | • • • • | I | | 0 |
| A.M.A.C. 3 | Float chamber cap o | nly | | | | | 4 | |
| A.M.A.C. 4 | Float only | | | | 4 | | 2 | 3 6 |
| A.M.A.C. 5 | Float needle only | | | | 1 | | I | ľ |
| A.M.A.C. 6 | Jet holder | | | | | | I | |
| A.M.A.C. 7 | Jets (each) | | | | | | | 9 5 6 6 |
| A.M.A.C. 8 | Spraying chamber on | ıly | | | | | 8 | ĕ |
| A.M.A.C. 9 | Spraying chamber ca | | | | | | 2 | 6 |
| A.M.A.C. 10 | Spraying chamber ca | | | | | | I | |
| A.M.A.C. ri | Sprayer | | | | | | | I |
| A.M.A.C.12 | Large nut for fixing s | same | | h = 1 | | | Ĭ | 6 |
| A.M.A.C. 13 | Throttle valve only | 4 | | | | | 3 | IO |
| A.M.A.C. 14 | Air valve only | | | | | | 3 | 0 |
| A.M.A.C. 15 | Valve springs (each) | | | - + 1 | | | _ | 3 |
| A.M.A.C. 16 | Control complete with | h lever | s, cable | es and | | | | |
| | valves | 1-1 | | | 4 | 1 | 7 | 6 |
| A.M.A.C. 17 | Control cables only (e | | mer an | d outer | | | 3 | O |
| A.M.A.C. 18 | Control levers comple | | | *** | | | 11 | 0 |
| A.M.A.C. 19 | Throttle lever only | | | • • • | | | 3 | 5 |
| A.M.A.C. 20 | Air lever only | 1 | | • • • | • • • | | 3 2 | 5 |
| A.M.A.C. 21 | Clip and bolt for inlet | | | | | | 2 | 0 |
| A.M A.C .22 | Bolt only for above | | | 144 | | | | 3 6 |
| A.M.A.C. 23 | Air port cap with gau | ızę | | | | | 4 | 6 |
| | EQUIPM | IENT. | | | | ٠ | | |
| | | | | | | | | |
| L.E.Q. 13 | Acetylene lamp set | comp | dete, d | compris | sing | | | |
| | Lucas 341 head | lamp, | 344 | tail lar | np, | | | |
| | generators, all bra | ackets, | tubing | , etc. | | 2 | r8 | 6 |
| | | | | | | | | |

| | 30 | | | |
|-----------|--|------|------|--------|
| | Equipment—contd. | . € | 5. | d. |
| L.E.Q. 14 | Head lamp only , | I | , , | б |
| L.E Q. 15 | Tail la con laulas | _ | - 45 | |
| L E.Q. 16 | TT 3 1 | | 3 2 | |
| L.E.Q. 17 | Tail lame harrow | | 2 | 6 |
| L.E.Q. 18 | Consolin | | T.C. | - |
| L.E Q. 19 | Generator and head lamp combined bracket | •• | 12 | |
| | Concentor rubber tubing | | 9 | 6 |
| | | | | |
| L.E.Q. 21 | ** | ., т | 10 | - |
| L.E.Q. 22 | | ., | 3 | 6 |
| L.E.Q. 23 | | | I | |
| L.E.Q. 24 | <u> </u> | • • | | 2 |
| L.E.Q. 25 | 1 | į. | | 2 2 |
| L.E.Q. 26 | Cable head lamp switch to battery (per foot | | • • | |
| L.E.Q 27 | | ., 2 | 10 | 0 |
| L.E.Q. 28 | | | 17 | 6 |
| L.E.Q. 29 | | I | 12 | 6 |
| L.E.Q. 30 | 1 41 | | 5 | 6 |
| L.E.Q. 31 | | | - 4 | 9 |
| L.E.Q. 32 | E Company of the Comp | • | 8 | 6 |
| L.E.Q. 33 | Cowey Speedometer complete with all fitting | 5 4 | _ | O |
| L.E.Q. 34 | Cowey Speedometer gcar box | | 15 | O |
| L.E.Q. 35 | Cowey Speedometer driving wheel | | 3 | Ф |
| L.E.Q. 36 | Cowey Speedometer driving wheel screw and | | | _ |
| | clamps | | 2 | 0 |
| L.E.Q. 37 | Cowey speedometer driving wheel complete | | 5 | 0 |
| L.E Q. 38 | Cowey Speedometer flexible drive complete | | ΓŽ | 6 |
| L.E Q. 39 | Cowey Speedometer sheath and coil (per ft.) | | 1 | ħ |
| L.E.Q. 40 | Cowey Speedometer cable (per foot) | | 1 | 4 |
| | TOOLS. | | | |
| L.T.K. 16 | Oil injector | | 2 | 4 |
| L.T.K. 15 | Six inch combination pliers | | | 10 |
| L.T.K. 13 | Six-inch wire screwdriver | | ī | 7 |
| L.T.K. 10 | Double end forged spanner # × 5/16 ins | | | ró. |
| IT.K. 11 | Deckle and Annual annual State | | ·ī | |
| | | | • | |
| | Tappet adjusting spanner | | | 7 |
| | Thin cone adjusting spanner | | м | 9 6 |
| L.T.K. 12 | Six-inch adjustable spanner | | 7 | I |
| L.T.K. 14 | Tyre lever | | I | |
| L.F. 58 | Tyre pump | | | 10 |
| L.T.K. 2 | Valve cap spanner | | 2 | G O |
| L.T.K. 5 | Magneto spanner | | ı | 0 |
| L.T.K. 17 | Tool roll only | | 3 | 4 |
| L.T.K. 7 | Tool roll complete with all tools (less pump) | | 10 | _ |
| L,F. 151 | Tool box only (see also luggage carrier) | | 15 | 0 |

| | SIDECAR AND PARTS. | £ s | . d |
|-----------------------|---|-----|-------------|
| L.F. 102 | Sidecar main frame (with 2 double clip lugs | | |
| | attached | | 1 6 |
| L.F. 148 | Finch bolt for clip lug (each) | | |
| S.T.D. 3 | Nut for bolt (each) | | 3 |
| L.F. 104 | Sidecar front bent arm | 9 | 7 3 6 |
| L.F. 95 | Nut for same | | 3 |
| L.F. 147 | Washer for above | | 2 |
| L.F. 88 | Sidecar front arm clip lug (complete for | | |
| | frame tube) | 6 | 3 |
| L.F. roi | bolts for clip fug only (each) | | 4 |
| L.F. 130 | Sidecar rear bent arm | IO | o |
| L.F. 95 | Nut for same | | |
| L.F. 147 | Washer for above | | 3 |
| L.F. 88 | Sidecar rear arm clip lug (complete for frame | | |
| f 12 | tube) | 6 | 3 |
| L.F. 101 | points for clip fug only (each) | | 4 |
| L.F. 89 | Clip lug for main sidecar frame attachment to | | |
| I.C. | chain stay | 5 | - 6 |
| L.F. 101 | Dolls for clip (ug only (each) | | 4 |
| L.F. 138 | Tacking sleeve for chip lug (2 parts) | τ | |
| L.F. 94 | Large bolt for fixing sidecar frame to above | | |
| carp . | clip lag | | 6 |
| S.T.D. 1 | Nut for bolt | | 5 |
| L.B.D. 6 | Sidecar body complete with apron (standard | | |
| I D D | touring) | 76 | 6 |
| L.B.D. 12 | Apron only Apron turn buttons (each) | 12 | 9 |
| H.B.D. 58 | Apron turn buttons (each) | | 5 |
| L.F. 91 | Sidecar body rear springs (each) | 7 | 3 |
| L.F. 96 | Sidecar body rear spring fixing bolt long | | 4 |
| L.F. 106 | Sidecar body rear spring fixing bolt short | | 4 |
| 5.T.D. 4 L.F. 145 | Nuts for above (each) | | 2 |
| | Sidecar rear spring pad lug plate | I | I |
| A | Sidecar body front coil spring (each) | I | 6 |
| S.T.D. 3 S.T.D. 10 | Nut for fixing (bottom end) | | 3 I |
| | Washer for nut | | |
| | Bolt for fixing top end to body | | 3 |
| a m = ". | Large washers for same (each) Nut for bolt | | 4 |
| S.T.D. 3 · L.B.D. 1 | | | 3 |
| S.T.D. 4 | Sidecar body rear bearer bar | 3 | 3 3 3 |
| H.B.D. 14 | End nuts for same (each) | | 3 |
| S.T.D. 10 | Spring washer for end (each) | | |
| S.T.D. 14 | Plain washer for end (each) | | Τ |
| TT 30 00 | Split pin for end (each) | | Ι |
| H.B.D. 13 | Coach bolts for fixing bearer bar to body | | 2 |
| H.B.D. 24 | Large washer for above | | 4 |
| L.M. 24 | Coach bolt nuts (each) | | I |
| S.T.D. 4 | Sidecar mudguard only Nuts for fixing to body study | | 6 |
| S.T.D. II | Nuts for fixing to body stude | | 2 |
| اللا الحمدونات | Washer for above | | ľ |



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