

INSTRUCTION BOOK
AND
SPARE PARTS LIST

MODEL L/R



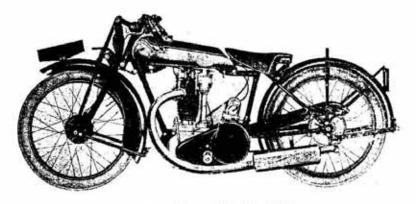
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DRIVING AND ADJUSTMENT INSTRUCTIONS



Matchless Model LIR

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. Factories:
BURRAGE GROVE & MAXEY ROAL
PLUMSTEAD, S.E.
And BARTH'S WHARF, WOOLWICH.

Telegrams & Cables - "Matchless," Woodwich."

Telephone - Woolwich 1010 (4 lines).

Code A.B.C 5th Edition Bentley's, & Private Code

All correspondence to-

Offices: 44-45 Plumstead Road, London, S.E. 18.

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/R" 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 (See Pages 17 and 18) for Instructions re Ordering Parts and particulars of Deposit Account System.

H. COLLIER & SONS, LIMITED.

General Description.

The Model L/R described below has been introduced to meet the requirements of the enthusiast, and represents the latest developments in Motor Cycle design, while retaining essential reliability. As will be seen from the sectional illustration overleaf, the engine is robust in construction, and its capability for extraordinary power output has not been obtained at the sacrifice of strength. Special alloy metals are used where an enormous factor of safety is desirable, an instance being the valves which are made from the very latest discovery in alloy steels, K.E. 965, a metal which possesses a tensile strength three times greater at working temperature than any valve steel used or known hitherto. The overhead rockers are mounted on roller bearings in an aluminium alloy case bolted over the cylinder head, which case contains also the overhead camshaft. The main oil supply is led into this case thereby ensuring ideal working conditions for the rapidly moving parts contained therein. An auxiliary oil supply intended only for high engine speeds is taken direct to the connecting rod big end bearing via ducts drilled through the flywheel and crankpin. This oil feed is by gravity and the supply is adjusted by means of a needle valve attached to a sight feed on the under side of tank. In ordinary circumstances this oil feed may be ignored, but for sustained high speed a steady drip via the aforementioned sight feed should be maintained. It is perhaps advisable to explain that at normal engine speeds the ordinary and standard motorcycle practice of oil mist lubrication of the big end bearing has been found perfectly satisfactory, but on account of centrifugal force this method fails upwards of 4,000 revolutions per minute and for this reason only the direct supply of oil to this bearing has been arranged. The camshaft is driven by means of a vertical shaft suitably encased behind the cylinder. the system of drive being bevel gears top and bottom. These bevel gears are adjustable as regards mesh. The engagement of the top pair may be seen and tested by removing the end plate of camshaft housing, while the bottom pair may be tested for back lash whenever the camshaft case is removed such as for decarbonizing. The externally threaded sleeves which screw into camshaft case and the casting bolted on to crankcase respectively, control the adjustment and when any alteration is made the lock nut must be carefully tightened to overcome any tendency to slacken in use. The arrangement described above can be readily understood by referring to the sectional illustration of engine (page 7).

The big end of connecting rod, flywheel axle bearings, and also various parts of timing gear are mounted upon roller bearings while the overhead camshaft and vertical bevel shaft run on ball bearings. The only plain bearing employed being that of the gudgeon pin. This ideal arrangement provides a remarkably free running engine, and revolutions upwards of 6,000 p.m. have been obtained during bench tests. The cylinder head, it will be observed, is of unique design, but here again latest port design has been incorporated with the object of obtaining maximum turbulence, and more important still the centre of the head

is perfectly finned, and free of any undesirable mass of metal. As will be found described later accessibility has been carefully thought out, and in spite of difficulties which will be obvious, the cylinder head may be removed in a few moments only, and without disturbing valve timing or adjustment in any way. The remainder of the Cycle has been designed in keeping with the power unit, and here again special alloys utilized where necessary. Unless specially ordered all machines are sent out with standard pistons. For racing a special high compression piston can be supplied. This, however, is not recommended for touring and when so used a 50-50 mixture of Benzole and Petrol is desirable to avoid unnecessary pinking. At all times high grade sparking plugs must be used and the type fitted as standard is recommended for all round purposes, K.L.G. type H.S. I.

To turn now to the general handling of the L/R Model, it is perhaps advisable before describing the actual method of starting to explain the various controls and 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 avbanced.

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.

The petrol is turned on when the lever on the tap to which the petrol pipe is attached is parallel 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 carburetter 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 kickstarter 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 lever which is situated on the left side of handlebar. Then shift gear lever 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 declutch and simultaneously shift gear 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 certain 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 throttle opening or ignition not sufficiently advanced.

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 spcking, 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 steep 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 change down to second speed when rounding acute corners, as owing to the high compression ratio employed the engine is somewhat harsh at very low revolutions. In addition or as an alternative in such cases, the clutch should be slightly eased. Much unnecessary strain on the transmission may be easily avoided by such considerations.

"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 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

The mechanical oil pump is set at the Works to deliver a generous supply of oil and unless found to be troublesome this supply should not be reduced for the first 500 miles after which it may be possible to cut down the supply. The final adjustment must necessarily be left more or less to the rider's judgment. At all times when starting up from the 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 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 contra clockwise direction.

Lubrication-continued.

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. The special gravity feed provided for direct big end lubrication described on page 3 need only be used for high speed. When it is desired to use this auxiliary supply it is only necessary to turn the tap lever until it lies parallel to the pipe in which position it is fully open and to afterwards adjust the needle valve to provide a fairly rapid drip. This drip may be observed through the sight tube and it is of course not necessary to vary the feed once it has been set. To turn off this auxiliary big end oil feed, it is only necessary to turn the tap to the off position.,

The oil specially recommended for touring with perhaps occasional speed bursts of short duration is Wakefield Castrol X.L., while the brand advised for general speed work is Wakefield R, which latter,

may of course be used for all purposes if preferred.

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.

FORK SPINDLES.

Every 200 or 300 miles the fork spindle bearings should be flooded with a good quality grease preferably Foliac Graphite Grease. This flooding process is one of a few seconds only by means of the special grease gun provided which requires merely holding nozzle end against the rounded nipples on fork spindles and given a few sharp strokes.

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 frequently in continuous bad weather) the lubricators in the centre of both front and rear hubs should have a few drops of oil forced grough them. (Engine oil suitable).

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

in bad weather. Bicycle lubricating oil or engine oil.

ADJUSTMENTS

Tappet or Rocker Clearance. To adjust, slack off the lock nut on overhead rocker end, and screw in or out as required the hardened steel adjusting screw, after which securely lock in position with the nut provided.

Note.—The correct clearances for speed are .004 for the inlet and .010 for the exhaust. For ordinary touring the latter may be closed up to .006 but the larger clearance must be maintained for any extended speed bursts, to allow for the increased expansion or elongation of valve. This is most important, and a cheap set of engineers feeler gauges will be found useful for checking purposes.

TO REMOVE CYLINDER HEAD

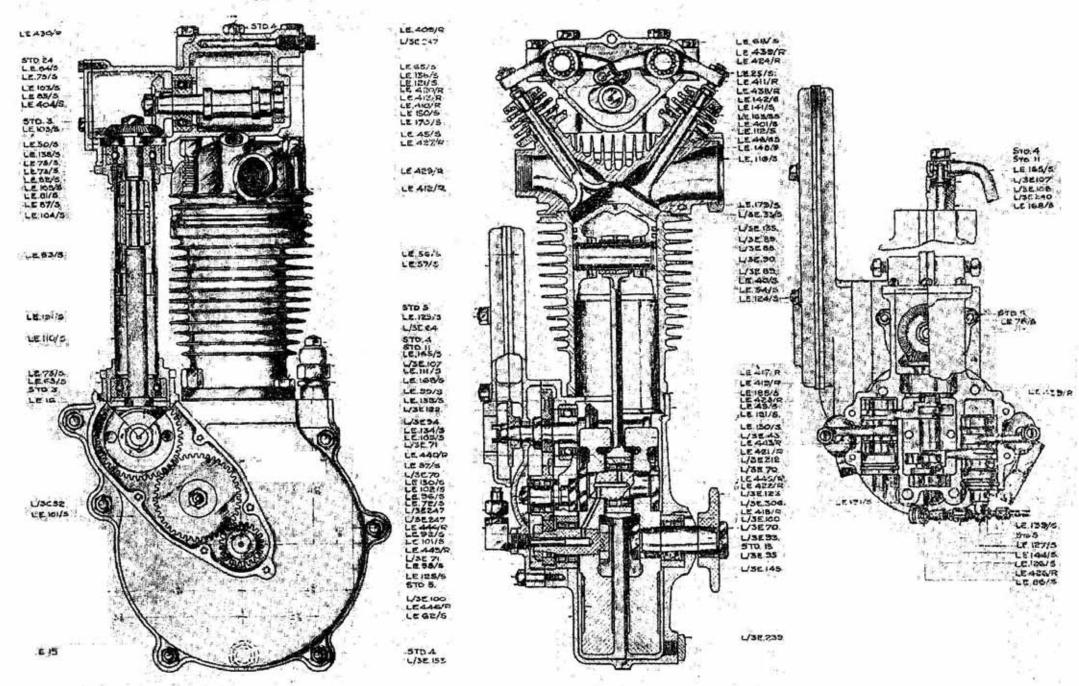
First unscrew exhaust pipe union nut and remove petrol pipe. Then withdraw throttle and air valves for carburretter and remove sparking plug. Then unscrew the top portion of the telescopic tube covering the vertical drive shaft of timing gear, and slide this top portion down into the larger bottom half.

Note.—The smallest of the three nuts at the top end of covering tube is the only one to be disturbed. The middle and medium size hexagonal nut controls the mesh adjustment of bevel gears, while the octagonal nut immediately underneath is the lock nut for securing this

adjustable sleeve.

Next drive out gently the taper pin securing the sleeve connecting the bottom half of the vertical shaft to the top half, and slide the sleeve down until the top shaft end is uncovered. Then unscrew the four bolts securing the cam case to the cylinder head fixing bolts, when after detaching oil pipe and valve lifter cable the entire camshaft assembly may be taken away. Although the description of this operation is necessarily somewhat lengthy, it will be found quite simple, and it should be observed that the valve timing gears are not disturbed in any way. Upon removing the four cylinder head fixing bolts the head may be lifted clear.

To Grind in Valves. After cylinder head has been removed as described, to remove valve springs it will be found convenient to rest the head of valve on a small block (wood preferably) while the spring is being compressed to allow of the removal of the taper valve cap divided



Ignition Setting-continued.

stroke. To obtain maximum power and speed this setting should be accurately obtained and preferably for ease any alteration made while cylinder head is removed when the exact position of piston may be checked instantly.

Note.—A greater amount of advance than described above is not recommended under any circumstances.

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 1 in. to 1 in. 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 DISMANTLE WHEEL 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. Upon re-assembling each roller bearing cage should be packed with good quality medium transmission grease.

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 receptacle 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 old 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. This is important, and should be tested while moving rear wheel to and fro.

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

Clutch Adjustment-continued.

lower end of cable is anothed) 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.

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.

IMPORTANT.—Adjustment to each side chain adjuster bolt should be equal, otherwise chain alignment with sprockets will not be correct. It must be noted that rear wheel is not intended to be dead central in the chain stays. Measuring from edge of rim to each side stay in turn should show a gap on left or chain side 5/32in. less than right or brake side.o This alignment must be carefully maintained.

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 the top cap nut on steering column should be slacked off and the lower nut screwed down until all trace of slackness has disappeared when the top cap nut should be again tightened down.

To Adjust Steering Head-continued.

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. Then slack off 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 rear or front wheel bearings, slack off the left side spindle nut and with the thin cone spanner provided slack off the thin adjusting cone lock nut, after which with the same spanner turn the adjusting cone in the required direction, i.e., clockwise to tighten or vice versa after which lock the adjusting cone in position with the lock nut provided and lastly carefully re-tighten the axle nut.

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 brakecover 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.

Engine Suddenly Stower 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.

Engine Runs Badly. Probable cause:—
Valve sticking.
Weak valve spring.
Plug points too close.
Water on plug.
Plug oily or sooted.
Air leakage (due to carburetter being disturbed).
Paraffin in petro!, 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.
Oiled up sparking plug.

Legal Matter

To comply with the Law relating to motorcycles, the owner of a "Matchless" Model 'L/R' must:-

- 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 licenced is new and has not previously been regis tered 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 a sidecar is provided with a lamp on the extreme near side of same showing a light forward, (Compulsory in some countries only by bye-law), and is also provided with a lamp which shows a red light to the rear. The Law regarding this latter 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.

Wherever necessary, give audible and sufficient warning by horn or other instrument of the approach of his motorcycle.

Guarantee Terms and Conditions

W 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 kind is 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 motorcycles are easily liable to derangements by neglect or misuse, this Guarantee does not apply to defects caused by wear and tear, misuse or neglect.

CONDITIONS.

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.

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 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 lug under saddle.

The engine number is stamped on the aluminium crankcase, trans-

mission side, immediately beneath cylinder base.

H. COLLIER & SONS., LIMITED

INTRODUCTION.

We have pleasure in presenting this Spares List for the "Matchless" L/R 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 17 and 18.

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 rue in this department is net cash with order. Remittance to fi in value may be sent by Postal Order, but over this amount it is advisable to remittance cheque. Cheques to be made payable to H. Collier & Sons, Ltd., 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 notices.

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 f2 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.

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 proceeding 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.

1. 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.

2. All goods must be consigned to us carriage paid.

 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.

 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.

 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.

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

ENGINE PARTS

			£	s.	d.
		A.			
T /o 17	0.2	Axle for flywheel (transmission side)		6	9
L/3 E.	93 92/S	Axle for flywheel (timing gear side)		5	9
L.E. L.E.		Axle for flywheel (crankpin)		6	3
	445/S	Axle for intermediate timing gear wheel		4	3
L.E.	96/S	Nut securing same		110	6
L.E.	102/S	See timing gear for other parts			
		See thining geat for other pares		1	
		В.			
T to E	T00	Bush (hardened steel for crankcase) timing			
L/3 E.	100	side		4	6
T 75 T7	***	Bush (hardened steel for crankcase) trans-			
L/3 E.	100			4	6
7 to T2	0-	mission side Bush for gudgeon pin		3	
L/3 E.	89			1	ő
L.E.	128/S	Dush for raive miss.			
L.E.	169/S	Breather for crankcase (see release valve)		0	0
L.E.	103/S	Bevel pinion for camshaft drive (taper hole)			
L.E.	III/S	Bevel pinion for camshaft drive (parallel hole)		30	0
		See timing gear		Q	
L.E.	421/R	Hardened steel outer roller race or bush for			6
L.E.	411/R	Overhead rockers		4	
L.E.	138/S	Ball bearing complete for bevel shafts and			6
		camshaft (bevel end)		4	, 0
		C.			
11.000			17.0	1 1	, 0
L.E.	34/S	Cylinder (bare)	- 7		6
L/3 E.	64	Cylinder holding down stud (each)			
L.E.	191/S	Cylinder holding down stud nuts (long)			4
	23500	each			5
S.T.D.	3	Cylinder holding down stud nuts (short)			- 2
	-125	each	03	200	3
L.E.	412/R	Cylinder head (bare)		2	2 0
L.E.	104/5	Cylinder head holding down bolts (long head)			9
L.E.	429/R	Cylinder head holding down bolts (short			1
. ,		head)		* 1	7
		Crankcase with bush and stude Supplied			
L.E.	167/S	(timing side) Complete	1 8	4 1	0 0
00,000		Crankcase with bush and studs Only	- 17	1	î î
		(transmission) Johny			
L/3 E.	239	Crankcase drain plug			4
L.E.	16	Crankcase bolt 3 diameter			7 3 6 6
S.T.D.		Nuts for above (each)			3
L.E.	15	Crankcase bolt 5/16in. diameter (long)			6
L/3 E.		Crankcase bolt 5/16in. diameter (short)			
S.T.D.		Nuts for above (each)			2
9.1.17	4				

ENGINE PARTS



C .- continued.

		o.—continuea.					
M.		Crankcase timing gear cover	(see t	iming	£	S.	d.
L.E.	125/S	Stus cor fixing above	***	***			
S.T.D.	5.	Nuts only for stude (each)	***				4
L.E.	57/S	Nuts only for studs (each)					2
L.E.	124/5	Crankcase magneto chain cover	***			10	0
S.T.D.		Studs for fixing above (each)	***	***			3
L.E.	5	Nuts for studs (each)	***	22.2			2
L.E.	40/5	Connecting rod only	•••			9	6
	425/S	Connecting rod with big end as small end bush					-
L.E.	458/R	Crankpin assembly only (pin,	rollers	and	1	10	6
L.E.	us/D	outer race)				16	6
L.E.	445/R	Crankpin only	***			6	0
	413/R	Camshaft (see Timing Gear)	200	***	I	0	0
L.E.	411/R	Cam lever (inlet) see Timing Ge	ar	***		II	6
L.E.	411/R	cam lever (exhaust) see Timing	Gear			II	6
L.E.	65/S	Cam lever hardened screw				I	0
L.E.	25/S	Locking nut for above	***				
L.E.	179/S	Cylinder head copper gasket	***			2	3
L.E.	429/R	Cylinder head fixing bolt flatten	ed coll	ar ···		2	6
				777-1			
T to E	02000	D.					
L/3 E.	239	Drain plug for crankcase	***				4
		E.					
		Engine bolts (see engine plates)		***			
		Exhaust valve (see valves) Exhaust pipe (see silencer)	·				
		12					
		F.					
L.E.	146/D	FLYWHEELS AND AXLES,	ETC.				
L/3 E.	446/R	Flywheel (timing side)	***	***	1	3	6
L.E.	43	Flywheel (transmission side)	22.27	20000		3	0
L/3 E.	445/R	Flywheel crankpin				6	0
S.T.D.	70	Fixing nuts for above (each)		***			6
	15	Lock screw					2
L/3 E.	92/S	Flywheel axle timing side	***	***		5	6
L/3 E.	70	Nut for above inside	***	***			6
S.T.D.	15	Lock screw :					2
L/3 E.	71	Nut securing small timing pinion		444			5
L.E.	93/S	Flywheel axle transmission side		***	- 9		9
L/3 E.	70	Nuts for above (each)		***			6
S.T.D.	15	Lock screw					2
L/3 E.	95	Key for flywheel axle (each)	***				5
		222					,
I la E	1220	G.					
L/3 E.	90	Gudgeon pin			3	3	9
L/3 E.	88	Gudgeon pin securing spring ring					Ľ
							7

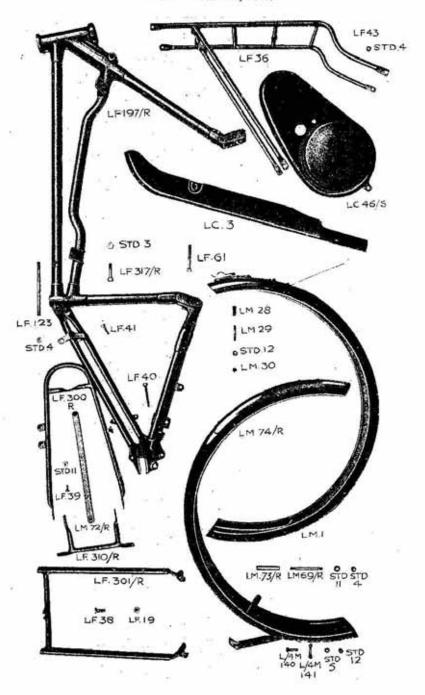
	G.—continued.		a		2	P.—continued.		
* * ** **	0 1 1 1 1		d.				f s	d.
L/3 E. 89	Gudgeon pin bush	3	3	L.E.	406/S	Pistor high compression type	~ I9	
L.E. 45/S	Guide for inlet valve			L/3 E.	135	Piston mags (each)	- 9 I	
L.E. 148/S	Guide for exhaust valve	4	0	L.E.	98/S	Pinior mall timing) see timing gear	4	
				L.E.	96/S	Pin or axle for intermediate timing pinion		20
	I.			21 2000	30/1	(see timing gear)	4	3
	Inlet valve (see valves)					Petrol pipe (see carburetter)	- 7	3
L.E. 45/S	Inlet valve guide	2	0	L.E.	423/R	Pin or axle for overhead rockers (see also	- 17	
						timing gear)	3	0
	M.			L.E.	424/R	Pin or axle for roller end of rocker	,	8
	Magneto and parts (see page)				1.967518757			1,000
	0.				6 10	R.		
L/3 E. 239	Oil drain plug for crankcase		4	L.E.	169/S	Release valve complete with pipe	5	
L.E. 436/R	Oil delivery pipe (pump to camshaft case)	4	6	L.E.	165/S	Release valve pipe and top only	2	100
L.E. 434/R	Oil feed pipe (tank to pump)	5	3	L.E.	168/S	Release valve screwed body	1	
L.E. 454/R	Oil feed pipe for big end lubrication	4	0	L/3 E.		Release valve screwed cap	1	1.53
	Oil feed sight regulator for above (screws	4		S.T.D.	4	Nut for securing pipe		3
L.T. 51	inde death	5	0	S.T.D.		Washer only		I
L.E. 444/R	Oil elbow for big end oil pipe (screws into	3		L/3 E.	240	Release valve diaphragm		2
L.E. 444/R		2	0	L/3 E.		Release valve diaphragm seating		9
L.E. 449/R	T 1 1 7 1	-	4	L/3 E.	145	Rollers and cage for flywheel axles	7	0
	011 -1 -1 -1 -1 -1		3	L/3 E.		Hardened outer race for same (either side)	4	0
1./3 E. 247	2.71		3	L.E.	150/S	Rollers and cage for cross-shaft and inter-		
L/3 E. 247	011 7 7 1 1	19	0			mediate pinion	5	0
5061/5475		3	0	L.E.	121/S	Hardened outer race for cross-shaft	4	6
5475/1	Oil pump body only		0	L.E.	150/S	Rollers and cage for camshaft	5	
5475/5	Oil pump centre worm spindle Oil pump regulating block (with hand ex-			L.E.	121/S	Hardened outer race for camshaft rollers	4	6
5475/2	4	I	6	L.E.	411/R	Rocker or cam lever inlet	11	6
	tension)	I	6	L.E.	411/R	Rocker or cam lever exhaust	11	6
5475/3	Oil pump worm sleeve	•	6	L.E.	65/S	Hardened adjusting screw	I	0
5475/9	Locking plate for above		6	L.E.	25/S	Locking nut for above		3
5/32 Whit.	Screws for plate (per dozen)		6	L.E.	439/R	Rollers for overhead rocker axle (per dozen)	2	O
5475/4	Oil pump plunger	2	6	L.E.	121/S	Hardened steel outer race for above	4	6
5475	Oil pump tell tale complete	2		L.E.	423/R	Rocker axle only	3	0
5475/2 & 9	Oil pump tell tale plunger and cap only		9	L.E.	419/R	Felt oil retaining washer for rocker bearing	70	3
L/3 E. 284	Oil pump union for oil pipe		4	L.E.	417/R	Perforated cap washer for rocker bearing	-	
L/3 E. 324	Oil pump fixing screw (each)		2	L.E.	422/R	Solid end cap for rocker bearing		3
L/3 E. 325	Nut for same		I	L.E.	420/R	Roller for rocker end		6
L/3 E. 290	Oil pipe nipple only (each)		3	L.E.	424/R	Pin or axle for above		8
L/3 E. 284	Oil pipe union nut only (each)		4	701.1707	4-4/			
L.E. 134/S	Special nut for oil pump drive (see timing					S.		
T to E	gear)		3	L.E.	158/S	Sparking plug K.L.G. with washer	6	0
L/3 E. 287	Oil pipe union and filter for tank	-	3	L.E.	246	Sparking plug C. & A washer only		2
	D.			L.E.	163/SS	Spring for valves inlet or exhaust (outer)	1	
	P.			L.E.	401/S	Spring for valves (inner anti-periodicity)	-	6
L/3 E. 33	Piston only (standard type)	10	0	L.E.	144/S	Coming (balinel) for subsect life as blo		
L/3 E. 33/S	Piston only (high compression type)	12	6	L/3 E.	144/5	Cancalest for termonalisation	6	7 6
L/3 E. 288	Piston complete with gudgeon pin and rings,			115 E.		Not for full a source	0	6
15 MM (1707) 3 2 3 6 7	standard type	16	6	L.E. S.T.D.	70	T and annual		
	22			S.1.D.	15	Locx screw		2
	44							

~			
	-con	F4 44 4	100
	-von	4-27-64	ana

		S continued.							T continued.			3
			1 '	5. (d.		L.E.	72/S	Outcode not for stud	£	S.	d.
L/3 E.	95	Key for sprocket	A .		5		L.E.	102/S	Incide put for come			2
L.E.	124/S	Stud for timing goar cover (long)			3		L.E.					6
L.E.	125/S	Stud for timing gear cover (short) (each)			4		L.E.	99/S	Timing par pinion for horizontal bevel		20	
L.E.	725/5	Ctrid for magnita abain and			3		T In T	-1-252-1	shāfc		8	0
S.T.D.	125/S				4		L/3 E.	71	Nut for same			5
	5	Nuts for above			2		S.T.D.	15	Locking screw for nut			2
L.E.	96/S	Stud or axle for timing gear intermediate		200	225		L.E.	III/S	Timing gear bevel pinion (parallel bore)		9	0
T T7	10	pinion	3	4	3		L.E.	103/S	Timing gear bevel pinion (taper bore)		g	0
L.E.	102/S	Nut for same (inside crankcase)			6		L.E.	85/S	Keys for above (each)		0	4
L.E.	72/S	Nut for outside end			2		S.T.D.	3	Nuts for fixing (each)			3
L.E.	101/S	Large steel washer for outside end			3		L.E.	404/S	Washer for nut (each)			ī
L.E.	431/R	Stud 5/16 for camshaft case cover			4		L.E.	105/S	Timing gear camshaft	1	0	0
S.T.D.	4	Nut for above			2		L.E.	150/S	Rollers and cage for same	-5	6	6
L/3 E.	122	Sprocket for magneto chain (engine end)	3	2	6		L.E.	121/S	Hardened steel race for rollers		3	
L.M.D.	II	Sprocket for magneto (see also magneto)		3	0		L.E.	138/S	Ball bearing for comphasts		9	6
L.E.	140/S	Silencer	I		0		L.E.	410/R	Timing gear camshaft case with bush and		9	U
L.F.	32	Silencer support strap bolt			3		79	1-1-	bolts, also with cap forming top half of			
S.T.D.	4	Nut for above			2				rocker bearings supplied complete only			
L.E.	182/S	Silencer exhaust pipe	T	0	0		L.E.	79/S	and can for about	2		0
L.E.	116/S	Silencer exhaust pipe union nut			0		L.E.	84/S	Stud for and san (h)		I	
L.E.	105/\$	Shaft (horizontal bevel) see also timing gear			0		S.T.D.	_PV1.030.771	Nute for above (each)			3
L.E.	83/S	Shaft (vertical bevel) long bottom portion	I	-	0		L.E.	68/S	Nuts for above (each)			2
L.E.	82/S	Shaft (vertical bevel) short top portion		22	0		L.E.		Bolts for top cap or cover			3
L.E.	81/S	Sleeve connecting top and bottom portions			6		10.10.	124/S	Bolts securing camshaft housing (each)			
L.E.	87/S	Taper pin securing sleeve	2		2		L.E.	TOT /5	long			6
L.E.	110/S	Charle and an entire that the state of the s	9	6			Jo.E.	125/S	Bolts securing camshaft housing (each)			
L.E.	109/S	Chaft according tube (ten neution)			3		L.E.	4**/D	short			3
L.E.	109/5	Sleeve (screwed) for vertical shaft top bear-	9	3	· ·			411/R	Timing gear cam lever or rocker (inlet)			6
10.15.	75/S	13. \$13.22 h					L.E.	411/R	Timing gear cam lever or rocker (exhaust)	- 7	II	6
L.E.	== /C	I colored but for about		_	0		L.E.	65/S	Hardened adjusting screws for above (each)		1	0
	73/S	Locking nut for above		3	2		L.E.	25/S	Locking nut for screw (each)			3
L.E.	63/S	Housing or sleeve for bottom vertical shaft		· vince	6		L.E.	431/R	Stud 5/16 for camshaft housing top cap			4
7 77	-0.10	bearing		4	6		S.T.D.	4	Nut for stud			2
L.E.	78/S	Stud securing above to crankcase (each)			3		L.E.	105/S	Timing gear horizontal shaft	1	13	6
S.T.D.	5	Nut for stud (each)			2		L.E.	138/S	Ball bearing for above			6
							L.E.	150/S	Roller cage and rollers for above		C	6
		T.					L.E.	121/S	Hardened steel outer race for roller cage		3	9
L.E.	56/S	Timing gear cover	Y	2	6		L.E.	83/5	Timing gear vertical shaft (long bottom		e -	
L.E.	125/S	Ctual for fuing about (about)	-	-			120722	200.025	portion)	4 I	2	0
L.E.	124/S	Stud for fiving above (lange)			3		L.E.	82/S	Timing gear vertical shaft (short top por-			
S.T.D.		Nuts for fiving (each)			2				tion)		9	0
L.E.	5 57/S	Magnete phain case front	1		ō		L.E.	81/S	Connecting sleeve for above			6
L.E.	7/10	Stud for fixing		0	3		L.E.	87/S	Taper pin for sleeve		m g	2
S.T.D.	125/S	Nut for above (each)			3		L.E.	138/S	Ball bearing for vertical chaft		9	6
L/3 E.	.5	Nut for above (each) Timing gear small pinion			6			10.700	U		200	315
L/3 E.	98						L.E.	116/S	Union nut for exhaust pipe		2. 1	-
L/3 E.	71	Nut for fixing same		0	5		L/3 E.	284	Union put for all nine	19		0
L/3 E.	97/S	Timing gear intermediate pinion				12	L/3 E.	247	Union for oil pipe			4
L/3 E.	96/S	Stud for mounting above			3		L.E.		Union for oil pipe (screws into camshaft case)			3
L.E.	150/S	Roller cage and rollers	3	5	0		L/3 E.	448/R	Oil elbow for timing cover	3		O
L.E.	IOI/S	Large steel washer for above			4		P/3 D.	290	Nipples for oil pipes (each)		i,	3

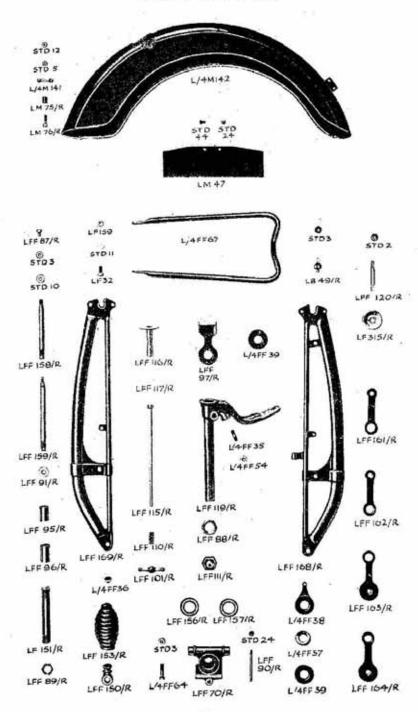
FRAME PARTS, Etc.

		v.				£	s.	d
L.E.	170/S	Valve (only) inlet	2000	***	***	- 77	12	6
L.E.	112/S	Valve (only) exhaust					12	6
L.E.	438/R	Hardened steel cap for val						6
L.E.	163/SS	PRESIDE DOMESTICATION OF THE PROPERTY.					I	0
L.E.	401/5	Valve spring inner	***	***	m			6
L.E.	141/S		***	***				8
L.E.	142/S	Valve split taper collar (tv	vo nie					9
L.E.	148/S	Valve guide inlet or exhau					4	0
L.E.	426/R	A SECURIT OF THE PROPERTY OF T			***		4	6
L.E.		Valve lifter shaft Valve lifter lever for above			***		3	6
	126/S			***	***			
L.E.	86/S	Pinch bolt for lever			•••			3
L.E.	407/S	Valve lifter cable (inner ar						10
L.E.	186	Valve lifter cable (outer)					2	I
L.E.	184/S	Valve lifter cable nipple h			17.5			3
L.E.	180/S	Valve lifter cable nipple et	igine e	end	***			7 2
L.E.	139/S	Valve lifter cable adjusting			***			7
S.T.D.	5	Lock nut for above	***	***	4.4.40			
L.E.	144/5	Valve lifter involute spring		***	***			7
		Valve lifter lever (see hand			***			
L.E.	131/S	Valve lifter shaft retaining	g sprin	ıg	1.1.1			I
L.E.	185/S	Valve lifter cable (inner or						9
L.E.	46/SS	Valve spring cap (bottom)						5
		FRAME AND FORK	PART	rs.				
	277/R	Complete frame	•••	rs.	***	5	7	6
L.F.F.	157/R	Complete frame Steering head race for frame	•••		***	5	7 2	6 5
L.F.F.	277/R 157/R 42	Complete frame Steering head race for frame Seat lug bolt	me 	•••		5		5 8
L.F.F. L.F. S.T.D.	157/R 42 4	Complete frame Steering head race for frame Seat lug bolt Nuts for above (each)	me 	***	***	5		5 8 2
L.F.F. L.F. S.T.D. S.T.D.	157/R 42	Complete frame Steering head race for frame Seat lug bolt Nuts for above (each)	me 			5		5 8 2 1
L.F.F. L.F. S.T.D. S.T.D. L.F.	157/R 42 4 11 40	Complete frame Steering head race for frame Seat lug bolt Nuts for above (each) Washer for nut (each) Rear chain adjuster bolt	me 			5		5 8 2
L.F.F. L.F. S.T.D. S.T.D.	157/R 42 4 11	Complete frame Steering head race for frame Seat lug bolt	me 				2	5 8 2 1
L.F.F. L.F. S.T.D. S.T.D. L.F. L.F.F.	157/R 42 4 11 40	Complete frame Steering head race for frame Seat lug bolt Nuts for above (each) Washer for nut (each) Rear chain adjuster bolt Front forks complete with guard	me n stan	 d and i	 mud-			5 8 2 1 9
L.F. S.T.D. S.T.D. L.F.	157/R 42 4 11 40	Complete frame Steering head race for frame Seat lug bolt Nuts for above (each) Washer for nut (each) Rear chain adjuster bolt Front forks complete with guard Front forks complete less	me n stan	d and a	mud-	5	12	5 8 2 1 9
L.F.F. S.T.D. S.T.D. S.T.D. L.F. L.F.F.	157/R 42 4 11 40 126/R 122/R	Complete frame Steering head race for frame Seat lug bolt Nuts for above (each) Washer for nut (each) Rear chain adjuster bolt Front forks complete with guard Front forks complete less guard	me	d and a	mud-		12	5 8 2 1 9 0
L.F.F. L.F. S.T.D. S.T.D. L.F. L.F.F. L.F.F.	157/R 42 4 11 40 126/R 122/R 169/R	Complete frame Steering head race for frame Seat lug bolt Nuts for above (each) Washer for nut (each) Rear chain adjuster bolt Front forks complete with guard Front forks complete less guard Front fork girder only (lef	ne n stand stand stand	d and a	mud-	5	12 5	58219000
L.F.F. S.T.D. S.T.D. L.F. L.F.F. L.F.F.	157/R 42 4 11 40 126/R 122/R 169/R 168/R	Complete frame Steering head race for frame Seat lug bolt Nuts for above (each) Washer for nut (each) Rear chain adjuster bolt Front forks complete with guard Front forks complete less guard Front fork girder only (lef Front fork girder only (rig	ne stands stands t side)	 d and i	mud-	5	12 5 16 17	58 2 1 9 0 0 6
L.F.F. S.T.D. S.T.D. L.F. L.F.F. L.F.F. L.F.F. L.F.F.	157/R 42 4 11 40 126/R 122/R 169/R 168/R 70/R	Complete frame Steering head race for frame Seat lug bolt Nuts for above (each) Washer for nut (each) Rear chain adjuster bolt Front forks complete with guard Front forks complete less guard Front fork girder only (lef Front fork girder only (rig Fork handlebar clip	me in standard standard standard (t side) (t side)	d and and and and and and and and and an	mud-	5	12 5	58 2 1 9 0 0 6 0
L.F.F. S.T.D. S.T.D. L.F. L.F.F. L.F.F. L.F.F. L.F.F. L.F.F. L.F.F.	157/R 42 4 11 40 126/R 122/R 169/R 168/R 70/R F. 64	Complete frame Steering head race for frame Seat lug bolt Nuts for above (each) Washer for nut (each) Rear chain adjuster bolt Front forks complete with guard Front forks complete less guard Front fork girder only (lef Front fork girder only (rig Fork handlebar clip Pinch bolt for above	me n stands s stand (t side)	d and and and and and and and and and an	mud-	5	12 5 16 17	58219000666
L.F.F. S.T.D. S.T.D. L.F. L.F.F. L.F.F. L.F.F. L.F.F. L.F.F. L.F.F. S.T.D.	157/R 42 4 11 40 126/R 122/R 169/R 168/R 70/R F. 64	Complete frame Steering head race for frame Seat lug bolt Nuts for above (each) Washer for nut (each) Rear chain adjuster bolt Front forks complete with guard Front forks complete less guard Front fork girder only (lef Front fork girder only (rig Fork handlebar clip Pinch bolt for above Nut for bolt	me n stands s stand (t side)	d and and and and and and and and and an	mud-	5	12 5 16 17 8	58219 0 0 0 6 0 6 3
L.F.F. S.T.D. S.T.D. L.F. L.F.F. L.F.F. L.F.F. L.F.F. L.F.F. L.F.F. L.J.4 F.I. S.T.D. L/4 F.I.	157/R 42 4 11 40 126/R 122/R 169/R 168/R 70/R F. 64 3 F. 52	Complete frame Steering head race for frame Seat lug bolt Nuts for above (each) Washer for nut (each) Rear chain adjuster bolt Front forks complete with guard Front forks complete less guard Front fork girder only (lef Front fork girder only (rig Fork handlebar clip Pinch bolt for above Nut for bolt Ball race for handlebar cl	me in stand stand stand t side) (ht side)	d and and and and and and and and and an	mud- mud- 	5	12 5 16 17 8	58219 0 0 0 6 0 6 3
L.F.F. S.T.D. S.T.D. L.F. L.F.F. L.F.F. L.F.F. L.F.F. L.F.F. L/4 F.J S.T.D. L/4 F.J	157/R 42 4 11 40 126/R 122/R 169/R 168/R 70/R F. 64 3 F. 52 F. 42	Complete frame Steering head race for frame Seat lug bolt Nuts for above (each) Washer for nut (each) Rear chain adjuster bolt Front forks complete with guard Front forks complete less guard Front fork girder only (lef Front fork girder only (rig Fork handlebar clip Pinch bolt for above Nut for bolt Ball race for handlebar cl Steering head nut plain	me in stand stand stand t side) (ht sid	d and and and and and and and and and an	mud- mud- 	5	12 5 16 17 8	58219 0 006 06 358
L.F.F. S.T.D. S.T.D. L.F. L.F.F. L.F.F. L.F.F. L.F.F. L.F.F. L/4 F.I S.T.D. L/4 F.I L/4 F.I	157/R 42 4 11 40 126/R 122/R 169/R 168/R 70/R F. 64 3 F. 52 F. 42 F. 42 F. 46	Complete frame Steering head race for frame Seat lug bolt Nuts for above (each) Washer for nut (each) Rear chain adjuster bolt Front forks complete with guard Front forks complete less guard Front fork girder only (lef Front fork girder only (rig Fork handlebar clip Pinch bolt for above Nut for bolt Ball race for handlebar cl Steering head nut plain Steering head cap nut	me in stance stance (t side) (ht side) ip	d and a	mud- mud- 	5	12 5 16 17 8	58219 0 006063586
L.F.F. S.T.D. S.T.D. L.F. L.F.F. L.F.F. L.F.F. L.F.F. L/4 F.I L/4 F.I L/4 F.I L.F.F.	157/R 42 4 11 40 126/R 122/R 169/R 168/R 70/R F. 64 3 F. 52 F. 42 F. 42 F. 46 115/R	Steering head race for frame Steering head race for frame Seat lug bolt Nuts for above (each) Washer for nut (each) Rear chain adjuster bolt Front forks complete with guard Front forks complete less guard Front fork girder only (lef Front fork girder only (rig Fork handlebar clip Pinch bolt for above Nut for bolt Steering head nut plain Steering head cap nut Steering friction damper le	me in stand s stand t side) tht side ip ong b	d and a	mud- mud- 	5	12 5 16 17 8	58219 0 0060635866
L.F.F. S.T.D. S.T.D. L.F. L.F.F. L.F.F. L.F.F. L.F.F. L/4 F.I L/4 F.I L.F.F. L.F.F.	157/R 42 4 11 40 126/R 122/R 169/R 168/R 70/R F. 64 3 F. 52 F. 42 F. 46 115/R 101/R	Steering head race for frame Steering head race for frame Seat lug bolt Nuts for above (each) Washer for nut (each) Rear chain adjuster bolt Front forks complete with guard Front forks complete less guard Front fork girder only (lef Front fork girder only (rig Fork handlebar clip Pinch bolt for above Nut for bolt Ball race for handlebar cl Steering head nut plain Steering friction damper is Steering friction damper is	t side)	d and a	mud- mud- 	5	12 5 16 17 8 2 1	58219 0 0060635866
L.F.F. S.T.D. S.T.D. L.F. L.F.F. L.F.F. L.F.F. L.F.F. L/4 F.I L/4 F.I L.F.F. L.F.F. L.F.F.	157/R 42 4 11 40 126/R 122/R 169/R 168/R 70/R F. 64 3 F. 52 F. 42 F. 42 F. 46 115/R 101/R 101/R 101/R	Steering head race for frame Seat lug bolt Nuts for above (each) Washer for nut (each) Rear chain adjuster bolt Front forks complete with guard Front forks complete less guard Front fork girder only (lef Front fork girder only (rig Fork handlebar clip Pinch bolt for above Nut for bolt Steering head nut plain Steering friction damper is Steering friction damper is Steering friction damper is	t side) this side	d and a	mud- mud- 	5	12 5 16 17 8	58219 0 0060635866
L.F.F. S.T.D. S.T.D. L.F. L.F.F. L.F.F. L.F.F. L.F.F. L/4 F.I L/4 F.I L.F.F. L.F.F.	157/R 42 4 11 40 126/R 122/R 169/R 168/R 70/R F. 64 3 F. 52 F. 42 F. 46 115/R 101/R 101/R 104/R	Steering head race for frame Steering head race for frame Seat lug bolt Nuts for above (each) Washer for nut (each) Rear chain adjuster bolt Front forks complete with guard Front forks complete less guard Front fork girder only (lef Front fork girder only (rig Fork handlebar clip Pinch bolt for above Nut for bolt Ball race for handlebar cl Steering head nut plain Steering friction damper is Steering friction damper is	t side) this side this sid	d and a	mud- mud- 	5	12 5 16 17 8 2 1	58219 0 006 06 35



FRAME AND PARTS

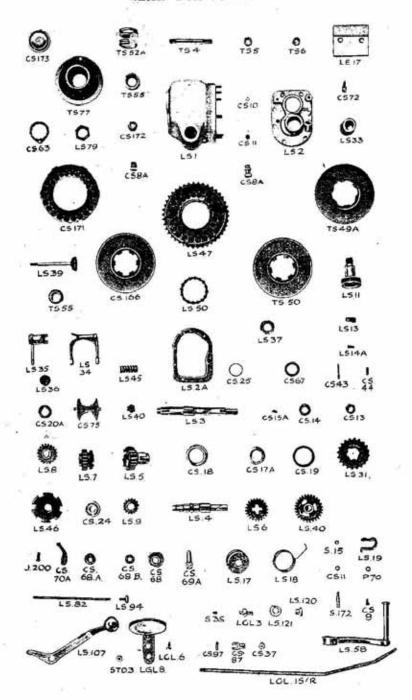
		Frame and Fork Parts-continued.			
L.F.F.	97/R	Steering damper base bracket	£		
L.F.F.	120/R	Bolt securing above to bond bug		1	
S.T.D.	2	Nut for above (anch)			4
L.F.	315/R	I arge dished weekers for above			2
L/4 F.F	. 39	Steering damper leather friction washer			9
1.0	33	(each)			I
L.F.F.	162/R	Left side bottom front fork link		I	
L.F.F.	161/R	Right side bottom front fork link		ī	3
L.F.F.	164/R	Left side top front fork link		I	38
L.F.F.	163/R	Right side top front fork link		1	3
L.F.F	159/R	Front fork spindle (long)		I	0
L.F.F.	158/R	Front fork spindle (short)		I	I
L.F.F.	91/R	Left side lock nut for spindle			
S.T.D.	3	Right side nut for spindle			5 3 5 4 6
L.F.F.	121/R	Front fork spindle grease nipple			5
L.F.F.	151/R	Front fork spindle sleeve (top)		2	4
L.F.F.	154/R	Front fork spindle sleeve (bottom)		2	6
L.F.F.	91/R	Front fork spindle sleeve nuts (each)			
S.T.D.	14	Split pin securing lock nuts (per dozen)			4
L.F.F.	96/R	Distance collar for top spindle sleeve (long)			4
L.F.F.	95/R	Distance collar for top spindle sleeve (short)			4
L.F.F.	170/R	Fork crown and stem		13	6
L.F.F.	156/R	Fork crown ball race		3	
L.F.F.	157/R	Fork ball race (for frame and handlebar lug	z)	2	5 3
L/4 F.F.		Set of steering head balls		I	3
L/4 F.F.	39	Friction damper leather ring			I
L/4 F.F.		Friction damper side plate (each)			6
L/4 F.F.	35	Friction damper side plate long bolt			3
S.T.D.	24	Friction damper bolts nuts (each)			2
L/4 F.F.	37	Friction damper spring washer			3
L.F.F.	153/R	Front fork spring		2	6
L.F.F.	150/R	Top anchor lug for spring (fits over spindle			
		sleeve)		1	7
L/4 F.F.		Bottom fixing nut for spring			3
L/4 F.F.	36	Taper collar for nut for spring			4
		ENGINE PLATES AND BOLTS.			
L.E.	18/36	Rear engine plates (left or right)		.5	6
L.E.	130	Front spain alst a flett and the		2	10
L.E.	16	Engine plate helt 3 diameter (-1 ant)			7
S.T.D.	3	Nuts for same (sach)			
I./3 C	52	Engine plate bolt § diameter (long)			6
L/3 C.	59	Tubular distance piece for chain guard			5
S.T.D.	3	Nute for almost (a-all)			3
L.E.	15	Engine plate bolt 5/16 diameter			5
S.T.D.	4	Nute for above			3 6 5 3 5 2
L.F.	6x	Clamping bolt for rear engine plates (over			(T)
	1200	gear havi			5
		gear box)			



HEAR BOX PARTS

GEAR BOX (Special close ratio type)

				£	S.	d.	
L.S.	I	Gear box shell only	***	2	0	0	
L.S.	2	Gear box end plate	***		16	0	
L.S.	3	Gear box main driving shaft			13	0	
L.S.	4	Layshaft only			13	6	
L.S.	5	Main shaft high speed or sleeve pinion (loose ball cones)	less		16	0	
C.S.	17A	Ball cones for above (each)			2	6	
C.S.	6	Middle gear sliding pinion for mainshaft			8		
C.S.	7	Middle gear sliding pinion for layshaft			IO		
C.S.	8	Layshaft pinion			5	0	
C.S.	9	Mainshaft pinion	***		4	0	
C.S.	10	Low gear and kickstarter pinion			IO	0	
C.S.	II	Kickstarter shaft or axle \ \ supplied o			-		
Contract.	**	Layshaft bush assembled	,		12	6	
L.S.	13	Tree to the contract of the co			I	3	
L.S.	144	TELL TO THE TOTAL	•••			3	
L.S.			***		Ι	0	
L.S.	17	Kickstarter crank return spring cover			I		
L.S.	18	Kickstarter crank return spring	•••		T		
	19	Kickstarter crank stop spring	***			7	
L.S.	20A	Kickstarter crank relief cam	***			6	
L.S.	31	Sprocket for rear chain	***		7		
L.S.	71	Sprocket fixing nut	***			9 5	
C.S.	63	Chain sprocker locking place	***				
S.	35	Screw for same	***			1	
C.S.	43	K.S. Pawl spring	***			I	
C.S.	44	K.S. Pawl spring plunger				3	
I.S.	32	Ball bearing cup Kickstarter axle bush	***			3	
L.S.	33	Kickstarter axle bush	***		I	0	
L.S.	34	Striking gear fork	1.7		6		
L.S.	35A	Striking gear lever			6		
L.S.	36	Oil retainer cap	6.6.6			3	
L.S.	37	Rocking shaft lever bush	1.4.1		2		
L.S.	38	Rocking shaft end bush or cap	***		1		
L.S.	39	Rocking shaft			1	0.5	
L.S.	40	Rocking shaft nut				6	
L.S.	45	Compensator spring for rocking shaft	***			5	
L.S.	75	Striking fork plate or slipper	***		2		
L.E.	17	Gear box top guide plate			6	9	
S.	172	Kickstarter crank cotter pin				2	
S.	15	Nut for same				2	
P.	70	Washer	+*+			I	
L.S.	2A	Gear box end plate paper washer	***			I	
L.S.	58	Kickstarter crank			12	6	
C.S.	24	Ball bearing for layshaft or main shaft			8	9	
C.S.	8A	Gear box filling or drain plug	***			9	
C.S.	67	Packing or adjusting washers (each)	***			1	
T.S.	6	Gear box fixing stud nut (each)	2000			3	
T.S.	5	Spring washer for same (each)				2	
A 170 T	.7	chine nasiler for seme leach)				-	



	*	and the second s	
Gear	BOX-	-continued	

		Gear Box-	-contin	ned.					
Tr. C	20		40.2				£	s.	d.
T.S.	4	Gear box stud (eac	:h)	•••	***	***			5
C.S.	10	Gear Box end plate	e nuts	(each)	***				2
C.S.	9	Gear box end plate	studs	(each)					3
C.S.	143	Bolt for securing	kicksta	arter ci	rank s	pring			3
L/3 E.	265	Gear box adjuster	(for fro	nt chai	n)			I	
L/3 E.	271	Special long bolt for	or same	e		***			
C.S.	20A	Main axle thrust w	asher	***	***	***		1	6
		CLUTCH	PART	s.					
L.S.	50B	1 rollers (each)	***						9
L.S.	50	Roller cage		***	***	***		0	0
L.S.	46	Clutch centre	••••	•••	***	•••		72	
L.S.	47	Clutch sprocket	•••	•••	***	•••		13	
T.S.	49A	Clutch outer plate	4.66	•••	***	***	1	6	
T.S.	50	Clutch back plate		***	***	434.6		2	6
C.S.	166	Clutch centre plate	***	*** .	***	***		2	6
C.S.					•••	•••		2	6
T.S.	171	Clutch friction plat		mserts	***			5	0
T.S.	77	Clutch spring cup	* * *	***	***	***		3	0
C.S.	52A	Clutch spring	***	***	***	***		I	8
	173	Clutch end cap		0.00	222	2555		1	6
L.S.	82A	Clutch rod	***	***	***				10
L.S.	94	Clutch thrust pin	***	***	***				IO
C.S.	172	Clutch spring nut	***	***	***	***			9
T.S.	55	Clutch spring collar			ove)	200.0			6
C.S.	13	Axle nut (fixing clu	tch hu	b)					9 6 5 1
C.S.	14	Axle nut lock wash							
C.S.	15A	Axle key for clutch	hub		***	***			3
C.S.	68	Clutch worm nut	***	***		***		5	3
C.S.	69A	Clutch worm			***	***		I	9
C.S.	70A	Clutch worm lever						2	9
J.	200	Clutch worm lever p	pinch l	polt					I
C.S.	72	Clutch cable adjuste	er supp	port stu	d	200		1	0
C.S.	106	Clutch cable stop w	ith nu	t					
L.E.	52	Clutch cable (inner	and or	iter) wi	th nip	ples		5	9 6 6
L.E.	53	Clutch cable (outer)						3	6
L.E.	54	Clutch cable (inner)		***	XXX	***		ĭ	6
L.E.	55	Clutch cable spring		New Control	***				
C.S.	IOOB	Clutch handlebar le	ver (se	e hand	lebars)	***		12	3
C.S.	100	Lever portion only	1						0
C.S.	104	Lever fulcrum bolt	and m	,	•••			4	2
C.S. X		Lever clip screw (ea	-1-1			***			3
	, ,	Clutch Inserts (large	on sn	all) no	r dos	**+		т	0
		Clutch Inserts (large			t doz.			Ι	O
		GEAR CHANG							658
L.G.L.	10	Gear lever complete	with g	gate	***			17	6
L.G.L.	8	Gate with tank plat						7	6
L.G.L.	6	Gate fixing bolt						4.34	3
L.G.L.	3	Fulcrum stud for ge	ar leve		660			I	6 3 0 5
L.S.	120	Cap nut for same	***		A.4.4	***			5

Ge: Change Parts-continued.

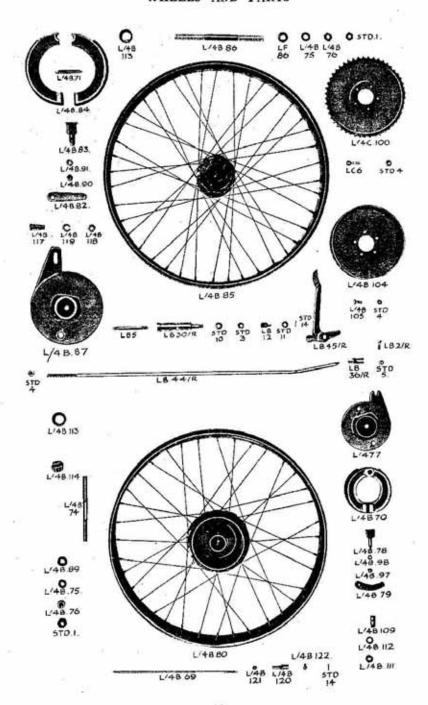
		series and committee.		1.2		
L.S.	TOT	Spring masher		£	S.	d.
L.S.	121	Spring washer	***			4
L.G.L.	107	Gear leve with ball			5	0
C.S.	12/S	Gear roe complete			5	
C.S.	87	Gear rod yoke end (each)				10
	37	Lock nut for same				2
C.S.	89	Yoke end pin	***			2
C.S.	108	Split pin for same (per dozen)	***			6
T / . 12 1	G0	LUGGAGE CARRIER AND TOOL BOX				
L/4 F.I		Luggage carrier complete	***		16	0
L.F.	1.47	Bolt for fixing same (top)	1.1.1			4
S.T.D.	4	Nut for above				4
S.T.D.	II	Washer for above				I
L.F.	167	Bolt for fixing carrier to rear mudguard				3
S.T.D.	5	Nut for above				2
L.F.	39	Bolt for fixing carrier (bottom end) each				2
L.F.	TET '	Tool how for luggage corrier			15	0
L.F.	167	Rolts for fiving same (each)			-3	
S.T.D.	5	Nist for about 111				3
	3	Rear number plate (see also mudguard	la\			4
L.F.	166	acatulana lama tuna	200			
			•••			1
SPECIA	L PART	S TAKING THE PLACE OF CARRIER W	/HE	N I	HAN	Q.V
T 17	/D	HOLD IS FITTED IN LIEU.				
L.F.	300/R				7	6
L.F.	39	Bolt securing arch piece bottom end				2
L.F.	167	Bolt securing arch piece to mudguard				3
S.T.D.	5	Nut for same				2
L.F.	151	Tool box only			15	0
L.F.	167	Bolts encuring tool how (sould)				3
S.T.D.	5	Nut for above				2
	1000	For other special parts see mudguar	rel			-
		section				
/ M	7.10	MUDGUARDS.				200
L/4 M.	142	Front mudguard only	**		15	6
L.M.	70/R	Front mudguard side fixing bolts (each) .	***			3
S.T.D.	5	Nut for mudguard side fixing bolts (each)				2
./4 M.	140	bront stand bring stud				3
∠.M.	75/R	Collar for front mudguard side holt	0.40			3
S.T.D.	5	Lock nuts for stud (each)				2
L/4 M.	141	Wing nut for front stand fixing			I	
L.M.	I	Rear mudguard (carrier type)	•			
L.F.	39	Rear mudguard fixing bolt (chain stay brid	low		12	
L.F.	41	Rear mudguard fixing bolt (top stay bride	ge)			5
S.T.D.		Rear mudguard fixing bolt (top stay bridg	e)			O
L.F.	167	Nut for fixing bolt	**			2
S.T.D.		Bolt fixing mudguard to luggage carrier				3
	765	Nut for above	• •			2
L.F.	167	Bolt securing mudguard to tool box .				5 6 2 3 2 3 2
S.T.D.	5	Nut for same				2
		33				

REAR	WEEL	AND	BRAKE	PARTS.

		Maria and a second second			1		RI	AR WREEL AND BRAKE PARTS.		
		Mudguards—continued.	1 0	d.				and the second and the second	(s.	đ.
T 11	19.47201	Does stand alin coround stud	£ s.			L/4 F	265	Rear wheel complete with Dunlop Cord		
L.M.	29	Rear stand clip screwed stud	61	4 2		250,000		- (B. 1872년 1972년 - 1972년 1972년 - 1972년 - 1972년 - 1972년 1972년 - 1972년 1일 전 B. 1972년 1972년 - 1972년 - 1972년 - 19	6 12	0
S.T.D.	5	Locking nuts for above (each)	-	0		L/4 F.	278		3 18	
L.M.	141	Wing nut for rear stand	- I	6		L/4 F.	258	Rear wheel bare (less all fittings including	3	
L.M.	74/R	Rear mudguard (non carrier type)	13	1000		1.1	-3.		2 17	6
L.M.	72/R	Left side rear mudguard stay		9		L/4 C.	100	Rear wheel chain sprocket	8	0
L.M.	72/R	Right side rear mudguard stay		9		L.C.	6	Fixing bolts for above (each)	-	2
L.M.	69/R	Support rod for rear number plate bracket		5 2		S.T.D.	4	Lock nut for above (each)		2
S.T.D.	4	Nuts for above (each				L/4 B.	104	Rear wheel brake drum	10	9
S.T.D.	II	Washer for nut (each)		6		L/4 B.	105	Fixing bolts (each)		5
L.M.	73/R	Distance tube for rod		6		L/4 B.	106	Nut for above		3
L.F.	167	Top mudguard stay bolt		2		L/4 B.	107	Rear brake cover plate assembled with		J
S.T.D.	5	Nut for same		4		-/1		BEN BEN 프라마 (1.1.1) - 1.1.1 (1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	I 5	3
		MANU AND DIMENICS				L/4 B.	87	Cover plate only	9	0
	60.00	TANK AND FITTINGS.	0000000	6		L/4 B.	84	Brake shoes per pair with linings (less	2	
L.T.	68/R	Tank less all fittings	4 17	6		22/4 22.	-	spring)	II	8
L.T.	71/R	Tank hinged filler cap (oil or petrol)	3			L/4 B.	108	Brake shoe linings only with rivets (pair)	3	8
L.T.	49	Fulcrum screw for cap	- 2	2		L/4 B.	71	Brake shoe internal spring (each)		7
L.T.	31	Petrol tap and filter	4	6		L/4 B.	100	Brales shoe fulament stand		9
L.T.	33	Filter only for petrol tap		1300		S.T.D.	3	Nut for same		1
L.T.	32	Petrol drain tap	1	9		L/4 B.	83	Broke ches expender	3	0
L.E.	437/R	Petrol pipe (see also carburetter)	4	6		L/4 B.	82	Protes shap arroander torrer	1	6
L.T.	16/R	Petrol tank fixing bolt (rear). L.T. 55 front		43533		L/4 B.	90	Nut for above		5
L.T.	53	Petrol tank fixing bolt rubber pad		5		L/4 B.	91	Spring washer		2
L.T.	56	Petrol tank fixing bolt rubber pad washer		6		L.B.	44/R	Door heales and	2	5
IT.	17/R	Capped nut for rear fixing bolt				S.T.D.	4	Nuts for some (outh)	*	2
L/3 E	287	Oil pipe union and filter	2	3	1.0	L/4 B.	92	Broke red toggle or procehood		8
L.T.	51	Oil sight feed regulator (for big end lubri-	-			S.T.D.	14	Split pin for fiving togals (per dea)		6
12271250		cation)	5	0		S.T.D.	II	Washer		1
L.T.	50	Regulator needle and gland nut only	2			L.B.	36/R	Valsa and for front and of broke rad		9
L.T.	34	Knee grips (per pair) complete	5	0.		L.B.	2/R	Volta and holt		
L.T.	35	Fixing bolt only	2	6		S.T.D.	5	Look nut for above		3
L.T.	36	Fixing plate only	0			L.B.	45/R	Door beales model	4	0
L.T.	6x	Petrol tank U pipe	2	4		L.B.	46/R	Deep books and I will off ancies	4	9
L.T.	48	Screwed nipples for above (screw into tank		4		L.B.	30/R	Rear brake pedal fulcrum stud	I	6
		bottom)		3.		L.B.	5	I one half figure above		6
L.T.	59	Union nut for U pipe		4		S.T.D.	3	Nut for holt		3
		Nipple for U pipe		3		S.T.D.	10	Washer for some		7
		077.4.377.0				L.B.	6	Distance tube for above (between plates)		4
	21	STANDS.	#	0		L/4 B.	86	Rear wheel spindle	2	4
L.F.F.	67	Front stand only	5	0		L/4 B.	76	Smindle muta (apph)	-	7
L.F.	32	Front stand fixing bolt		3		L/4 B.	75	Chindle macher (plain)		2
S.T.D.	5	Front stand fixing bolt lock nut	10	2		L/4 B.	89	Coindle weeken (demod)		3
L.F.	31	Rear stand only	10	9		L/4 B.	73	T /63\		+
L.F.	38	Rear stand fixing bolt		3		L/4 B.	72	Taper cone (adjusting) Supplied		
L.F.	19	Rear stand fixing bolt lock nut		4		L/4 B.	114	Rollers and cage	6	0
L.M.	29	Stand clip screwed stud		3		L/4 B.	113	Hardened steel outer roller race only		
S.T.D.	5	Locking nut for screwed stud		2		L.B.	40/S	Shouldered bolt for anchoring brake		
1M.	141	Stand clip fly nut	I	0.		1,111	40,0	100 and 100 an		6
		04.000 04.000						35		U
		3.4						33		

WHEELS AND PARTS

		Rear Wheel and Brake Parts—continued.	£	š.	d.
S.T.D	3	Nut for same			3
L/4 B.	8r	Rear hub lubricator			4
L/4 F.	285	Rear wheel tyre complete (Dunlop Cord			
	5.5	650 × 65)	2	13	6
L/4 F.	283	Cover only (Dunlop Cord 650 × 65)	2	5	0
L/4 F.	284	Tube only		S	6
L/4 F.	253	Rear wheel spokes (each)			I
L.F.	64	Rear wheel spoke nipples (each)			2
		FRONT WHEEL AND BRAKE PARTS.			
L/4 F.	266	Front wheel complete with Dunlop Cord	5	9	6
C)4 .	200	Tyre	3	2	- 7
L/4 F.	267	Front wheel complete less tyre	2	16	0
L/4 F.	257	Front wheel only (less all fittings including	~	~~	
	-,11	hub interior	2	I	0
L/4 F.	77	Front brake cover plate complete with	-		
74.	11	shoes, etc		18	0
L.B.	IIO	Front brake cover plate only		8	0
L.B.	70	Front brake shoes with linings (per pair)			
D	10	less spring		7	9
L.B.	108	Brake shoe linings only with rivets (per		1	3
Las. Kes	*****	pair)		2	5
L.B.	109	Fulcrum stud for shoes		0.775	ő
L.B.	III	Nut for same			5
L.B.	113	Washer			953653433743
L/4 B.	71	Front brake shoe internal spring (each)		1	6
L/4 B.	78	Usant braka ahaa arrandar		2	-
L/4 B.	79	Court backs show many day loves		ī	3
L/4 B.		Nut securing above			1
	97	What is for most			2
L/4 B.	98	Property of a section of the section		2	2
L/4 B.	74			2	
L/4 B.	70	Spindle nuts (each)			1
L/4 B.	89	Spindle washer (domed)			4
L/4 B.	75	Spindle washer (plain)			5
L/4 B.	73	Taper cone (fixed)			
L/4 B.	72	Taper cone (adjusting) Supplied		6	
L/4 B.	113	Hardened steel roller bearing complete outer race only		6	0
L/4 B.	114	Rollers and cage			
L/4 B.	Si	Hub lubricator			5
L.B.	49/R	Special bolt for anchoring front brake			~
	49/10	cover plate			6
S.T.D.	3	Nut securing above bolt			3
S.T.D.	10	Washer for nut			I
L/4 B.	69	Front brake rod only			9
L/4 B.	115	Bottom end toggle for rod complete with			
	57534	eye bolt and pin		1	3 6
L/4 B.	116	Eye bolt only with nut and washer			6
L/4 B.	94	Nut for above only			3



		Front Wheel and Brake Parts-continued.	£	S.	d.	WANDIEDAR
L/4 B.	95	Washer only	10	22.50		HANDLEBAR, ETC.
L/4 B.	92	Fulcrum pin only for toggle with split pin			1	f F. d.
L.B.	32	Front brake cable (inner and outer assem-			4	L.F.F. 124/R Handlebar bare 1 2 0
	5-	bled with spring box ata				L/4 F.F. 58 Harranar with grips
L.B.	22	bled with spring box, etc.)		4	2	L.F.P. 127/R Inverted lever left or right complete
L.B.	23	Front brake cable (inner only with nipples)			9	1. F. F. 128/R Lever portion of above only
L.B.	24	Front brake cable (outer with thimbles)		1	7	L.F.F. 129/R Body portion only
	25	Front brake cable spring box		I	O	L.F.F. 130/R Fulcrum screw for lever
L.B.	26	Front brake cable spring box spring			3	L.F.F. 131/R Nut for ditto
L.B.	27	Front brake cable adjuster stop and lock			250	S.T.D. 44 Screw securing body portion to be 313
		nut			7	
		Front brake handlebar lever complete (see			60-	S.1.D. 2 Nut for ditte
7 / 32	44	nandlebar)				3 .tut for dicto 3
L/4 F.	285	Front wheel tyre complete (650 × 65)				SADDLE AND PARTS
*	201	Dunlop Cord	2 1	13	6	
L/4 F.	283	Cover only (650 × 65) Dunlop Cord		5	0	L.F. 313/R Saddle only (special type Terry) 2 11 6 317/R Bolt securing front end to frame tube
L/4 F.	284	Tube only		8	6	S.T.D. 3 Nut for bolt 0
L/4 F.	251	Front wheel spoke (left side)			I	
L/4 F.	252	Front wheel spoke right or brake side			I	and the statement supporting real child
L/4 F.	64	Front wheel spoke nipples (cach)			2	
	500000				2	
		CHAIN GUARDS AND CHAINS.				and the state of t
L.C.	33	Rear chain quard		_	6	S.T.D. II Washer for above nut I
L.F.	37	Bolt fixing same (rear end)		7	6	WA CANDON AND THE PROPERTY OF
S.T.D.	4				3	MAGNETO AND PARTS.
L.F.	61	Bolt for front end (engine bolt)			2	L.M.D. 12 Complete magneto 3 15 0
L.C.	46/5	Front chain guard	140		5	L.M.D. 58 Contact breaker only complete
L/3 C.	52	Long holt securing centus (see al.	1	6	6	L.M.D. 59 Contact screws only (pair)
2/3 0.	3"	Long bolt securing centre (see also engine			2-1	L.M.D. 23 High tension pick up new type
L/3 C.	50				6	L.M.D. 60 Carbon brush only
S.T.D.	53	Distance piece for rear end fixing stud			5	L.M.D. 01 Spring for same 1 6
S.T.D.	.4	Nut for rear end fixing stud			2	L.E. 150 Sparking plug cable with turnical and
	rı	Washer			I	L.M.D. II Magneto chair manalett I o
L.C.	13	Rear driving chain	I (0	O	L.M.D. 62 Bolt for same
L.C.	47/S	Front driving chain	1	I	0	L.E. 122 Sprocket for magnete daily (2
L.C.	19	Detachable connecting link only			5	I. F. 134 Special put for Going (engine end) 2 6
L.C.	21	Cranked chain link			7	I.E. 130/S Mamuto platform at 11
I./4 M.D		Magneto chain (endless)	- 1	2	6	
L.C.	25	Chain rivet extractor (for drive chains only)		5	0	STD 5 Not for all might to the same 2
L/3 C.	59	Distance tube engine plate to chain case		75.V	5	
S.T.D.	3	Nuts for bolt (each)	10		3	
		CANADA DE 1971	4.5	- 3		Special double neaded nut for same
		FOOTREST AND PARTS				Magneto advance and retard cable (inner)
L.F.R.	32/R	Footrest rod only	19	1	6	L.M.D. 20 Magneto advance and retard cable (outer)
S.T.D.	3	End nuts for rod only (each)			3	L.M.D. 27 Handlebar lever for above complete 6 9
L.F.R.	II	P DC CDIGOT TURCHAR (on als)		- 6	-	The state of the s
L.F.R.	64	I off or might aid a second to			3	MECHANICAL OIL PUMP AND PARTS.
L.F.R.	63	Centre enger tube			7	5001/5475 Oil pump complete with tell-tale
L.F.R.	54	Footreet pad and halden assembled			5	5475 Tell tale only complete 2 6
L.F.R.	51	Footrest pad only		I		L/3 E. 330 Tell tale plunger and can
L.F.R.	53	Footrast and flangue units (mah)				5475/1 Aluminium pump body
L.F.R.	52	Footreet pad centre tube			3	L/3 E. 326 Screwed plug with fibre washer (fits inside 8
	9	38		- 3	5	of above)
		50				39
						(155)

Mechanical	Oil Pum	o and Part	s-continued.
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	141	echanical on rump and raits—communa.	1	_	.1
		Stool warm shaft	t	s.	d.
5475/5		Steel worm shaft		I	0
5475/3		Bronze worm sleeve		I	6
5475/2		Regulating block (with handle extension)		1	6
5475/9		Index plate for above			6
L/3 E.	324	Screws securing plate (per dozen)			6
5475/4		Steel pump plunger		I	6
L/3 E.	337	Screwed oil pipe connection with washer			4
L.E.	434/R	Oil pipe tank to pump		5	3
L.E.	436/R	Oil pipe pump to camshaft housing		4	
L.E.	454/R	Oil pipe (sight feed regulator to timing cover		4	0
L/3 E.	247	Camshaft housing pipe screwed connection			3
L/3 E.	248	Oil pipe union nut only			4
L/3 E.	290	Oil pipe nipple only			3
		CARBURETTER B. & B.			
L.E.	402/5	Complete Carburetter (special type B. & B.	2	10	0
	432,3	[7] - 4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	-	8	6
L/3 E.	338				8
L/3 E.	339	Float chamber cap and tickler		7	
L/3 E.	340	Float chamber, needle valve		-	10
L/3 E.	341	Float		2	6
L/3 E.	342	Main jet complete		1	
L/3 E.	343	Fibre washer for same			I
L/3 E.	344	Pilot jet			9
L/3 E.	345	Pilot jet air screw and spring		1.23	7
L/3 E.	340	Jet taper needle		I	9
L/4 E.	347	Needle holder and screw			7
L/3 E.	348	Spraying chamber		8	6
L/3 E.	349	Spraying chamber cap with bushes		ĭ	8
L/3 E.	350	Spraying chamber cap lock ring		I	3
L/3 E.	35I	Clip and bolt for inlet port		I	
L/3 E.	352	Bolt only			3
L/3 E.	353	Throttle valve \ per		6	9
L/3 E.	354	Air valve pair			3
L/3 E.	355	Valve springs (pair)		1	2
L.E.	59	Control levers complete		7	0
L.E.	356	Air lever only		2	II
L.E.	357	Throttle lever only		2	II
L.E.	358	Control cables (inner and outer) complete		5	9
	0500				
CONTRACTOR OF STREET	13.031	EQUIPMENT.			
L.E.Q.	56	Acetylene lamp set complete	2	2	6
L.E.Q.	57	Rubber tubing, per yard		1	6
L.E.Q.	58	Head lamp only (with special fitting)	Y	II	0
L.E.Q.	59	Tail lamp only		3	6
L.E.Q.	60	Head lamp burner		2	1
L.E.Q.	61	Tail lamp burner			6
L.E.Q.	62	Generator		11	6

Equipment-continued

L.E.Q.	64	Cowe Speedo	meter ges	r box					. d.	
L.E.Q.	65	Cowey speedo	meter co	mplete	fspecia	1 700		15	0	
		me h typ	pe) Model	8.	200	***	9	4 5	0	
L.E.Q.	35	Cowey theedor	neter driv	ving wi	ieel			3	0	
L.E.Q.	36	Cowey speedo and clamp	meter di	riving	wheel	screw		.,		
L.E.Q.	37	Cowey speedon	neter driv	cing w	heel con	nnlata		2		
L.E.Q.	38	Cowey speedon	neter flex	ible de	ive com	ploto		5		
L.E.Q.	39	Cowey speedon	neter shes	th and	coil (no	r ft \		12		
L.E.Q.	40	Cowey speedon	neter cahl	e /per	f+ 1			1		
10	7	comey aprecion	reter early	(ber		6.4.4		I	4	
		т	OOLS.							
L/3 T.K	. 16	Oil injector						-	-	
L/3 T.K.		Six inch combin	nation pli	ore		***		1	0	
L/3 T.K.		Six inch wire so	rewdrive	E.	***			I		
L/3 T.K.		Double end forg	red spanr	or 1 v	5/16 in	***			3	
L/3 T.K.		Double end for	ged spann	ter 3	1 10 11			I	3	
L/3 T.K.		Tappet adjustin	o snanna	T g Z		***		1		
L/3 T.K.	TOIS	Thin cone adjus	ting enar	17705	***	***			6	
L.T.K.	12	Six inch adjusta	blo enan	mer	7.5	***		10.00		
L.T.K.	18	Large open and	one spain	for time		•••		6	0	
	40	Large open end	spanner	lor tim						
L.T.K.	20	bevel shaft he	Cup Cup	K nut	***	***			0	
L.T.K.	14	Tecalemit Greas	e Gun		***	***		3	0	
L.T.K.	21	Tyre lever	****	1000	***	***			3	
L.T.K.		Tyre pump		***	•••	***		3	9	
L.T.K.	5	Magneto spanne	r	4.4.4		***			3 9 4	
	17	Tool roll only				•••		4	O	
L.T.K.	7	Tool roll comple	te with a	ll tools	(less pu	mp)	1	2	6	
L.F.	151	Tool box only (s	ee also lu	ggage o	carrier)	***		15	0	
					and some managers					