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INSTRUCTION BOOK SPARE PARTS LIST

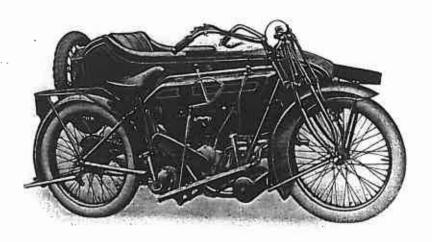
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MODEL



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"Matchless" Model J.

# H. COLLIER & SONS, LIMITED,

Manufacturers,

Registered Offices and Showrooms:

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

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

Factory:
BURRAGE GROVE & MAXEY ROAD,
PLUMSTEAD, S.E.

Telegrams & Cables - "Matchless, Woolwich."

Telephone - Woolwich 17 & 18.

Code (A.B.C. 5th Edition, Bentleys, & Private Code.

## General Description.

#### STARTING.

Before describing the actual method of starting, it is perhaps advisable to explain the various lever positions. Neutral or free engine position of the gear is marked "N" on gear quadrant. Gear changing lever must be in the position marked, thus, for starting, Ignition is advanced or retarded by means of a lever fixed on left side To advance spark this lever is pushed backward; for starting it should be about two-thirds advanced. The throttle and air levers for carburettor 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 carburettor by depressing the button on the float chamber until the petrol overflows. With the right foot give the kickstarter a sharp and vigorous push downwards; should the engine fail to start at the first kick allow the crank to go right back against the rubber buffer stop and kick again until the engine starts. operation should not require at the most more than three or four attempts. On account of the mechanically-operated valve lifter and long kickstarter crank with the small gear up, the starting of the engine of the Model "J" will be found a far more simple operation than on any previous model. When the engine is started close the throttle slightly to check the engine speed, and seated on the cycle, depress the clutch pedal by pressing forward with the toe-this disengages the clutch. Then shift the gear lever into first position, after which gently let in the clutch by releasing gently the clutch pedal. under way smartly depress clutch pedal again, and simultaneously shift gear lever into second gear position, releasing pedal gently but smartly as engine takes up the drive, after which repeat the operation to obtain top gear. When thoroughly accustomed to the gear changing it will be found beneficial to check the engine speed while changing up by closing the throttle slightly. This can quite easily be done by operating the gear lever with the left hand and the throttle with the right. It is possible by this latter method to change gear absolutely without a sound. 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.

#### DRIVING.

In driving it will be found that the "Matchless" clutch becomes almost indispensable, particularly for slow driving on top gear, rounding very scute corners, riding in traffic, etc., obviating much of the incessant gear changing necessary on most machines. The clutch surfaces being positively lubricated, it is quite safe to use same in such circumstances as suggested above, and, in fact, the clutch may be slipped whenever necessary for comfortable and easy driving without the slightest fear of harmful results, provided always that the lubricating

#### 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 "J" 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 18 & 19 for Instructions re Ordering Parts and particulars of Deposit Account System).

H. COLLIER & SONS, LTD.

instructions appertaining to same are carefully carried out. The whole machine, in fact, should be driven like a car. In general driving it is always advisable to advance the ignition as far as possible without 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 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 enormous strain imposed upon the rear driving chain.

## "DON'TS" IN DRIVING.

- DO NOT allow the gear dogs to knock when engaging the low gear for starting. Push the clutch farther out of engagement and all knocking will cease.
- DO NOT allow the engine to labour on high gear on a steep gradient.

  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.
- DO NOT overlook signs of harshness in transmission or fierceness in clutch operation. Both point to need of lubricant.
- 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.

## LUBRICATION.

It is practically impossible to lay down rules for engine lubrication owing to the varying conditions under which different machines are driven. The amount of oil we recommend for a normal load and at an average speed of 20 m.p.h. is approximately one pumpful to every five miles. This amount must be increased proportionately to all conditions above normal. The quality of oil to be used, however, is of vital importance, and we particularly recommend our patrons to use only the very best brands, a good example being Wakefield's Castrol "C" Winter Grade, which will be found suitable for both winter and summer. Of equal importance to the engine is the lubrication of such parts as clutch, chains, fork spindles, etc., which should be dealt with systematically as follows:—

#### OLUTOH.

Lubricate with special Foliac Graphite grease and oil mixture every 200 miles of ordinary running i.e. more often if machine is driven mainly

in traffic where clutch is used frequently. Want of lubrication of the clutch surfaces will be made apparent by harsh or jerky transmission, and no such signs should be ignored. Should the oil which is injected into the reservoir on the end of the clutch pedal refuse to run away, a few strokes of special injector with nozzle held into the hole will drive the oil through the small tube passing into clutch interior. Under no circumstances must the lubrication of clutch surfaces be ignored. The self-filling oil injector provided renders this operation one of seconds only.

#### CHAINS.

It will probably be found that the chains will receive sufficient oil from the clutch and gear box if the respective lubricating instructions of these parts are carried out. They should, however, be inspected periodically and oiled if necessary. At least once each season the rear chain should be removed, and after cleaning thoroughly soaked in molten tallow. (Engine oil will serve as a poorer substitute.)

#### FORK SPINDLES.

Every 200 miles grease should be forced through the fork spindles by means of the grease pump provided until the grease can be observed exuding from either end of spindle bearings. (Special Foliac Graphite Grease recommended as a lubricant.)

#### GEAR BOX.

Every 500 miles the gear box filling plug should be removed, and the box filled to overflowing when the machine is standing level, if necessary, with heavy gear oil (preferably).

#### HUBS.

Every 500 miles (or more frequently in continuous bad weather) the hub grease caps should be removed and grease injected with the grease pump provided, until it is seen exuding from each side of the spindle. (Speedwell Medium Transmission Grease or Price's "Belmoline" Medium Grade, specially recommended as a lubricant.)

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 bad weather.

## TO LUBRICATE BRAKE DRUM BEARING.

On models prior to 1923 no provision (other than dismantling) has been made for the lubrication of the above, which is of the frictionless double roller type and being packed with grease during assembling, in the ordinary course of events no further lubricant should be required. It should be explained that the primary object of this grease is to prevent the formation of rust or the entry of water. However, cases having been brought to our notice of this becoming dried up by heat generated by frictional end thrust on the rollers caused by excessively loose adjustment of the rear wheel bearing, it has been considered advisable to provide some easy means of injecting fresh grease. A small hole is therefore drilled through the inner end of the roller sleever

or spindle (exposed by this document was created for free distribution in the AJS/Matchless Egroups - do not resell may be forced by means of the injector provided in tool kit. Owners are warned, however, against adding grease to this bearing unless some signs are evident that same is needed, such as squeaking, etc., as an excess of lubricant may find its way into the brake drum interior and render the rear brake inefficient in action. Injector 1/8 full is ample if and when required (Foliac Grease recommended).

## ADJUSTMENTS.

#### ENGINE.

To Adjust Valve Tappets. Hold tappet head, Part No. HE.4794, with adjustable spanner, and slack off thin lock nut, Part No. H.E.4107, with special thin engine spanner, then using the small end of the same spanner on the tappet body. Part No. H.E.4090, screw up or down as desired. When the correct adjustment has been obtained the head must be securely locked with the thin locking nut.

Note.—The correct clearance between tappet head and valve stem when valve is on its seating is .005, approximately the thickness of an ordinary visiting card.

## TO ADJUST VALVE LIFTER WIRE.

Slack off small lock nut securing valve lifter outer casing stop, and screw the stop out until correct adjustment is obtained.

Note.—This adjustment can be made at either end of the outer cable, and care must be taken when adjusting to see that the valve tappets are quite free when valves are down on their seatings.

## TO REMOVE CYLINDERS.

Unscrew knurled-edge cap from top of carburettor and draw out valves and cables. Then unscrew the petrol pipe union nut at tank end, after which remove inlet pipe and carburettor entirely. Next remove oil pipe; then remove both nuts securing magneto chain case, and take off the outer half of same. Then remove the nut securing each magneto chain sprocket, after which, with a lever behind the chain case, at each end in turn, force off the sprocket. Then remove the four bolts securing magneto platform, and after detaching ignition rod and ignition cables then remove magneto entirely. Both exhaust pipe nuts should then be unscrewed, after which sparking plugs and valve caps (if it is desired to remove the valves) should be unscrewed. The cylinder nuts should then be taken off, and with the pistons at their lowest point, the cylinders can then be removed with ease.

The return should be made in the reverse order, care being taken when refitting cylinders to keep the faces quite clean and cylinder wells smeared with oil. We recommend coating the cylinder base when ready for assembling with Seccotine or quick-drying gold size. 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 tank as a resting place for nuts and pins, etc., which can at the least jar fall into crankcase interior while cylinders are removed.

The base of cylinders, just prior to refitting, should be smeared with a little seccotine or quick-drying gold size as mentioned above.

It is advisable not to mix up the parts taken from each cylinder, and in fact, where convenient, we recommend removing and replacing one cylinder before disturbing the other.

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

#### TO RE-TIME MAGNETO.

Revolve the engine by hand until the back piston is approximately 7/16ths of an inch from the top of the compression stroke (i.e. the stroke upwards immediately after inlet valve has closed). Then with ignition lever in fully advanced position, and magneto sprocket loose on shaft (the other sprocket having been previously tightened), turn the magneto armature backwards until the points are just about to break on the No. 1 cam. Holding carefully in this position tighten up the magneto sprocket nut.

Note.—The operation of re-timing magneto, although requiring care. does not in any way justify the alarm with which many novices view it. A good test for correct timing after the foregoing instructions have been carried out is as follows: -

Start up the engine and fully retard ignition. With throttle fully open the engine should run at about 1,000 to 1,200 revolutions per minute, i.e. at about the same speed as at 20 to 25 miles per hour. If any considerable variation to this speed is obtained an alteration in the required direction should be made. When satisfied that magneto timing is correct, securely tighten the nuts which fix magneto sprockets. commencing first with the one on the cam shaft.

#### TO ADJUST MAGNETO CHAIN.

It will be observed that magento-chain adjustment is obtained by sliding the magneto back upon the engine cradle plates to which it is attached. Correct chain adjustment is such that when the top of chain is lightly pressed up and down a whip of 1 to 1 inch is obtained. After any adjustment has been made, the four small bolts which secure magneto platform bracket to engine cradle plates should be securely tightened.

## TO REMOVE TIMING GEAR.

Remove magneto chain case and sprockets as previously described, and take off the remaining nuts securing timing gear cover. Then pull up valve lifter wire by hand, at the same time holding the covering tube stationary. Then holding in this position remove the slotted cap, Part No. H.E.4923, then push the tube up until the nipple is exposed, and detach wire by pushing through the slotted side of brass voke end. Then unscrew the brass yoke end, after which remove hexagon screwed cap and spring, Part Nos. H.E.4678 and H.E.4290. Then pull upwards on valve lifter rod and at the same time gently tap off the timing gear cover until the lifter rod yields, and is free to move up and

down. Care must be this document was created for free distribution in the AJS/Matchless Egroups - do not resell and cown (see Instructions to Remove Rear Wheel) and with the cover plate, and owing to the tendency to do so, it is advisable to occasionally tap the end of cam shaft when withdrawing the cover plate to prevent this happening. The timing gear is now exposed, and valve lifter will remain in cover plate.

## TO REMOVE CAM WHEEL,

Revolve the engine until the marks on timing gears coincide, then raise the back exhaust tappet with a screwdriver or some other suitable instrument and insert a distance piece (a penny or two-shilling piece will serve) between the crank case and lowest part of tappet head. The cam wheel is then free to be pulled out.

## TO REPLACE CAM WHEEL AND GEAR COVER.

With back exhaust tappet raised as described above, hold all four cam levers up and gently insert cam wheel with mark at the bottom to coincide with mark on small pinion. See that exhaust valve lifter is in place in cover. After carefully cleaning the faces of cover and smearing with quick-drying gold size or Seccotine slide on to cam spindle as far as possible, then draw the lifter rod as high as possible and carefully tap the cover on until about linch from the case, then push valve lifter rod down as far as possible and then push the cover home. No force is necessary in replacing this cover, and should any difficulty be experienced in pushing valve lifter rod down as described, carefully draw the cam wheel out a little. After the cover has been replaced the magneto chain, etc., should be fitted as described previously (see Magneto Timing).

## TO INSPECT GEAR BOX INTERIOR.

To remove gear-box end plate for examination of gears remove the aluminium cap covering kickstarter ratchet pinion, then take off the small nut on the end of driving shaft and remove spring and ratchet pinion. Then unscrew the ratchet nut (screwed right hand thread). This, with constant use, may have become tightly fixed, and some force may be required to loosen. Then remove kickstarter crank and spring, and all nuts securing end plate. Then draw off valve lifter lever, and cable attachment, after which the end plate may be gently forced off, leaving the gears exposed.

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.

Should any tendency develop on the part of top or bottom gears to jump out of engagement, the adjustment of gear rod must be at once inspected. This rod must be adjusted each time an alteration is made to the position of gear box (see Front Chain Adjustment). correct setting of gear rod proceed as follows:-

remove the bolt from top of gear rod and gently pull the rod upwards, at the same time moving rear wheel to and fro until the top gear is engaged. Then holding the rod in this position move the gear lever into top gear position, and alter the length of rod by screwing same in or out of the cross head on gear-striker lever as the need may be, until the rod is of correct length to allow the bolt at the top end being introduced without any pull on rod being required. Before fixing this bolt, test in low gear in a similar manner and halve any inaccuracy, that is to say, if the rod is found to be long when offered up in low gear position, but correct in top gear, it should be shortened to make the inaccuracy equal in each. Mention is made of this owing to the fact that in order to provide for wear on the numerous joints, the gear lever is given slightly more movement than necessary when new. This excess of movement is taken up by the buffer spring box made integral with the gear rod, and primarily intended to facilitate noiseless gear changing.

## TO DISMANTLE HUB BEARINGS.

After wheel has been removed (see Removing Wheels), slack off the large octagonal nut securing the right side screwed adjusting ball cap (using special spanner provided). Then using the hooked end of same spanner, turn this screwed cup in a left hand direction until no further outward movement is obtainable, indicating that the threaded cup is entirely clear of threaded hub flange. Then by means of a brass punch slightly smaller in diameter than the ends of hollow wheel spindle, drive the spindle from the left side clear of the metal gland cap washer which is merely a force fit on spindle end. When this washer is disengaged the entire spindle, etc., may be withdrawn, after which the spindle may be driven off the washer at the opposite end in like manner. Upon reassembling, the balls (each side) may be secured in their respective cups by applying thick grease and the correct adjustment of bearing should be obtained before the gland cap washers mentioned above are again driven on the ends of spindle. It is of the greatest importance that the large octagonal locking nut be securely tightened. A few sharp hammer taps applied to the end of the special spanner being advisable. If the felt washers fitted underneath the metal gland washers show signs of dryness or hardness they should be thoroughly soaked in oil before being refitted, after which the metal washers should be lightly driven down until contact with the felt washer is obtained.

Note.—The friction set up by these washers will rapidly wear off, and under no circumstances should the adjustment of bearings once correctly obtained be slacked off in an endeavour to reduce this initial stiffness which is of no importance and which, as stated, will rapidly disappear.

## TO DISMANTLE BRAKE DRUM BEARING.

Remove rear wheel (see Instructions). Then detach connecting link of rear chain. Slack off considerably the large nut securing brake drum centre sleeve with large single end box spanner provided and after disconnecting rear brake rod twist the whole assembly until the projection on rear fork end is clear of the slotted hole in brake cover

plate in which it operates his to change the action of the distribution in the AJS/Matchless Egroups - do not resell to the change of the chan backwards clear of the slotted fork end. Then with a lever force the hooked end of brake pull off spring from the lever, when the cover plate (with brake bands, etc.,) may be lifted off. To expose the brake drum bearing the large screwed cap must be removed by means of a suitable punch, when the centre sleeve and rollers may be withdrawn. To re-assemble it will be found convenient to secure the rollers to the centre sleeve by applying grease, when the whole may be gently forced into position after which the covering cap should be screwed down tightly.

When fitting on the cover plate, care must be exercised to ensure proper engagement of the small dowell pin fitted near the centre with corresponding hole in centre sleeve. The object of this pin, it might be explained, is to prevent the sleeve turning upon tightening the large

nut by which the entire assembly is secured to fork end.

Note.—It is of the utmost importance that this large nut is kept securely tightened. (See Reference on Page 13, Periodical Inspection of Nuts.)

#### CLUTCH ADJUSTMENT.

When delivered the clutch will be found to possess a comfortable margin of grip. Slight adjustment either way can be effected by tightening or slackening the spring pressure, as may be desired. Should the clutch develop a tendency to slip under full load, the adjustment of the clutch pedal ball thrust races must first be suspected (see Adjustment of Clutch Pedal Bearings). If this adjustment is found O.K. remove the top portion of front chain case, and with the special tubular box key and tommy provided tighten in turn each of the six clutch spring nuts about half of a turn only, after which give another trial. This may be repeated if found necessary, but under no circumstances should these nuts be screwed up sufficiently to prevent the clutch effectively disengaging. Should the clutch on the other hand, develop a tendency to become harsh in action, although properly lubricated (see Oiling Instructions), the clutch spring nuts should be carefully slacked off in turn not more than one complete turn between each re-trial.

Note.—It is important that care is exercised in each of these operations to adjust each of the six nuts a similar amount. To re-set after complete dismantling screw each nut up in turn until considerable resistance is felt, indicating that spring is completely compressed, after which slack out four complete revolutions each nut in turn.

## CLUTCH PEDAL ADJUSTMENT.

When the clutch pedal thrust races are correctly adjusted there should be a distinct free movement of the pedal portion before the resistance of the spring pressure is felt. Should this free movement not be apparent, remove the screwed end cap (containing oil reservoir and tube), also remove, the outer left-hand threaded nut that the removal of the end cap will expose. Then remove the washer under this nut and carefully slack off the inside left-hand threaded nut not more than half-a-turn before re-trial. Then replace the special washer and outer nut, securely locking the latter in position. Repeat if found necessary, after which replace end cap, leaving oil hole uppermost.

The clutch pedal should be set to allow the rider to control the movement of same in its entire range with both heel and toe. When delivered it is set suitable for a person of average height but if found inconvenient to operate as described, slack off the top nut on anchoring rod and revolve pedal to the desired position. A much easier and finer clutch manipulation will be obtainable with the clutch pedal set correctly. The anchor rod nut referred to does not need excessive tightening.

#### TO ADJUST FRONT CHAIN.

Slack off the nuts securing the top ends of gear box straps, and using the kickstarter crank as a lever, revolve the gear box in its housing in the required direction (viz., backwards as in starting the engine for tightening, and the reverse direction for slackening). Care must be taken after adjustment has been made to securely tighten the gear box strap nuts. Correct adjustment of the chain should allow a movement of sin. to in. when chain is pressed up and down. This may be ascertained from inspection hole in chain case immediately opposite the top side of chain.

IMPORTANT NOTE.—Owing to the method of obtaining chain adjustment by revolving gear box, the gear operating rod must also at the same time be adjusted to correct length for each such edjustment. (For instructions see Gear Rod Adjustment.)

## TO ADJUST REAR CHAIN.

Put down rear stand (see Instructions to Remove Rear Wheel) and slack off large nut only on the left side of rear wheel, and also the large nut on right side. Then screw up an equal amount each side chain adjuster nut (i.e. small nut at end of fork end) until a whip of gin. to lin. is obtained by pressing chain up and down. In making this test, tension of chain should be tried in a number of places, and the correct adjustment obtained for the tightest place. When correct adjustment has been obtained securely tighten each of the large nuts.

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 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.

Note.—Want of adjustment will also make itself felt by a distinct tendency of the front wheel to wobble when the hands are removed from handlebar.

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Put down stand. (The easiest method of lifting rear of cycle on to stand is to hold the cross bar of stand with the left foot and raise the weight of cycle from the luggage carrier.) Entirely remove the small nut on left hand end of spindle and slack off only the right hand side large nut. Then turn the spindle until the handle on same is in line with the slot in fork end, in which position it can be easily withdrawn and the wheel removed without disturbing transmission in any way.

To replace, hold the wheel up until the spindle can be inserted to carry the weight, then turn the wheel slowly, and at the same time force over towards the transmission side until the driving dogs engage, then holding the handle of spindle in line with the slot in fork end, push right home. Then give the spindle a quarter of a turn, when the handle will be across the slotted fork end, and holding in this position replace small nut on left hand side and securely tighten large nut on right hand side.

Note.—It will be found advisable to hold the right hand side chain adjuster tight against the inside of fork end while the flattened collar on spindle is being passed through.

#### TO REMOVE FRONT WHEEL.

Put down front stand. Slack off nuts on front brake pad holder clips and turn the pads outwards. Then remove spindle nut and washer, when spindle can be withdrawn and wheel removed. When replacing care must be exercised when setting and fixing the brake pad holders. These should each be set an equal distance from wheel rim and in line with same, and in addition the clip nut must be securely tightened.

Note.—Wheel must be replaced with the driving dogs on left side as seen when seated.

#### TO REMOVE SIDE WHEEL,

Put down side stand only. Remove nut and washer from spindle end and withdraw, when wheel is free to be removed.

Note.—When replacing fix wheel with driving dogs on left side as seen when seated.

#### TO ADJUST WHEEL BEARINGS.

A periodical examination of wheel bearing adjustment should be made when machine is on stands, and any wheel requiring attention should be removed (see Removing Wheels). The large octagonal lock nut should then be slacked off with the special spanner provided, and the threaded cup turned with the hooked end of spanner in a right-hand direction, until all shake is taken up, after which the locking nut must be securely tightened after which the adjustment of bearing should be verified.

Note.—It is advisable to tap the spanner with a small hammer when tightening this large nut to guard against any possibility of same slacking off in use.

To obviate any mudguard breakages, exceptionally robust guards are fitted, each of which is rigidly fixed to an important frame member. As a further precaution all the stands are fixed both to frame members and mudguards in such a manner as to help support the latter instead of remaining a dead weight on them as is usual. It is, therefore, of great importance that the stand and mudguard fixing bolts should be kept tight, and also that the front and sidecar stand clip screws are carefully tightened down after use (but not excessively). In each case the stand fixing bolt is provided with a locking nut, and we particularly recommend that these bolts and nuts be inspected occasionally, and it necessary screwed in until the stand is quite stiff to operate. This care, in addition to having the desired effect as regards mudguard support, will prevent any stand rattle which is common to many machines.

#### 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.

All wheel axle nuts, large nuts securing brake drum centre sleeve, all mudguard nuts, engine bolt nuts, large nuts securing screwed yoke ends on sidecar stays and connections, all 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. Care should be taken with the sidecar body, which should be treated in the same manner as a carriage. The dirt, whether mud or dust, should be washed off gently with a soft sponge, and when clean wiped off with a wash leather. To improve the polish a little linseed oil should be used occasionally, afterwards polishing with a soft cloth.

#### EXHAUST VALVE STICKING OR SLUGGISH IN ACTION.

Owing to the common tendency to over oil, it occasionally happens that one or other of the exhaust valve stems will collect sufficient deposit of congealed oil to cause sticking or sluggish action when engine is cold. Generally after a few seconds' running this deposit softens sufficiently owing to the heat, to allow the valve to operate normally. This trouble, although not of much importance, should not be ignored. A simple remedy is to obtain a stiff brush, and while the engine is running, hold the brush soaked in paraffin against valve spring. The paraffin will be carried up the valve guide, and will rapidly soften the congealed deposit. If necessary, this operation should be repeated until no valve sticking is noticeable when starting engine from cold. Any accumulation of oil or deposit on valve springs or valve stems should be washed off occasionally with a stiff brush and a little petrol.

INFLATION OF TYRES—(IMPORTANT).

The front and sidecar tyres should not be blown up too hard, but should be soft enough for the load of machine and passengers to make quite an appreciable flattening of that part of the tyre which bears the load. The back tyres should be harder to prevent the possibility of the tyre creeping, and should be sufficiently hard for the load to make hardly any discernible flattening. Care should be taken to keep the security bolts in all tyres tightened up.

## STOPPAGES AND THEIR CAUSES.

Engine Suddenly Stops. Probable cause: -

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

Engine Runs Badly. Probable cause:-

Valve sticking.
Weak valve springs.
Plug points too close.
Water on plugs.

Air leakage (due to nuts of inlet pipe or carburettor being loose).

Paraffin in petrol or bad petrol. Valve seating badly burnt. Sooty plugs.

Faulty magneto contacts.

ENGINE WILL NOT START. Probable cause:

Valve or valves stuck up.
Contact breaker arm stuck.
Water on plugs.
Choked jet.
Valves stretched and not seated properly.

LEGAL MATTERS.

To comply with the law relating to motorcycles the owner of a "Matchless" Model "J" 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 License 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 £4/0/0, and in some districts evidence that the vehicle to be licensed 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 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 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.
- Whenever 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 ... ... ... 3-cwt. Weight of sidecar (if requested only) ... ... 1-cwt. 1-or. If sidecar is detachable (if requested only) ... Yes. Description or type of motorcycle ... "Matchless" ••• Motorcycle. 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.

(As agreed by the Cycle and Motorcycle Manufacturers & Traders Union.)

We give the following guarantee with our motorcycles instead of the Guarantee implied by statute or otherwise as to the quality or 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" 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 three months only from the 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 GUARANTEE, subject to the conditions mentioned below, to make good at any time within three months any defects in these respects. As motorcycles are easily liable to derangement by neglect or misuse, this Guarantee does not apply to defects caused by wear and tear, misuse or neglect.

Any motorcycle sent to us to be plated, enamelled or repaired will be repaired upon the same conditions as if it were a new motorcycle, i.e. We Guarantee that all precautions which are usual and reasonable, have been taken by us to secure excellence of material and workmanship, such Guarantee to extend and be in force for three months only from the time such work shall have been executed, and this Guarantee is in lieu, and in exclusion, of 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.

(As agreed by the Cycle and Motorcycle Manufacturers & Traders Union.)

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 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 any warranty or make any representation on our behalf other than those contained in the above Guarantee.

## MACHINE NUMBERS.

The frame number will be found on the right hand side of the seat lug of the frame.

The engine number is stamped on the top of the right hand side of crank case near the valve lifter mechanism.

The sidecar frame number will be found on the left hand front spring pad lug.

H. COLLIER & SONS, LTD.

#### INTRODUCTION.

We have pleasure in presenting this Spares List for the "Matchless" "J" Combination.

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

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 18 and 19.

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

When ordering spare parts, type of machine and frame or engine number should be mentioned in addition to the distinctive number of the part or parts required.

H. COLLIER & SONS, LIMITED.

Our invariable rule in this department is nett cash with order. Remittance to £1 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, Ltd., and crossed. When making remittance by Telegraph Money, 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 from 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—(IMPORTANT).

We strongly advise all owners of "Matchless" motorcycles to take advantage of our "Deposit Account System." It often occurs that parts are required by return, but customer not having a current account. there is the inevitable delay of "pro forms" 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 all 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.

## SPARE AND REPLACEMENT PARTS.

A special department of our factory deals with the supplying of spare parts and replacements for all the models which we have

An expert staff is retained whose records of our old models is so extensive that owners can rely upon the correct part being supplied if same is available. We cannot guarantee to supply every part for machines manufactured prior to 1912, but every effort possible is made to supply parts which may be found necessary.

## 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 general repairer.

## OVERHAULING.

When sending 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 repairs 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 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.
- 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.
- 6. 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 name of part 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 three days from receipt of goods, no claim

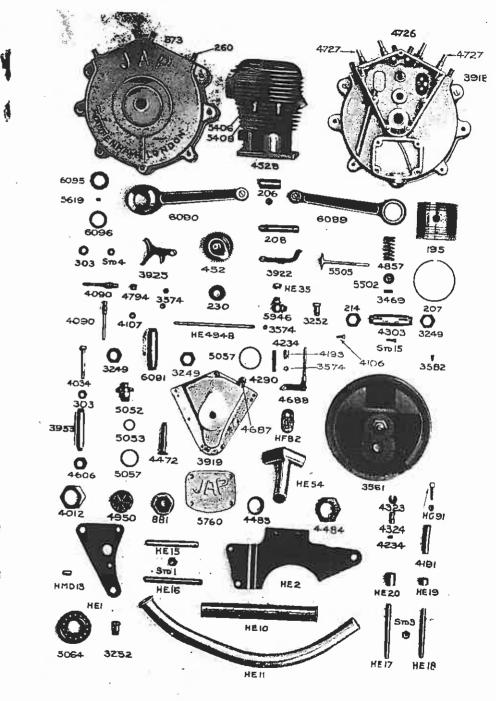
can be entertained.

## ENGINE PARTS.

		В.				
H.E.	5064	Roll books to do 1 2 2 2 2	£	s.	d.	
11,12,	9004	Ball bearing for flywheel spindle (transmission side)				
	209			15	0	
11	3980	Bush for flywheel spindle (timing side)		5	7	
- 11	4693			1	6	
1,	1000			_	_	
11	3979	Bush for exhaust lifter and 11		2	0	
"	206	Bush for gudgeen nin		1	11	
11	5096	Steel washer for hig and		3	3	
.,		oreof washer for big end			4	
		σ.				
H.E.	4528	Cylinder only (front)	3	15	0	
,,	4529	Cylinder only (back)		15	0	
1,	260	Cylinder holding down stud	J	ΤĐ	4	
11	303	Cylinder holding down nut for same			4	
11	4950	Cylinder valve cap (exhaust)		8	8	
1,	881	Cylinder valve cap (inlet)		3	8	
71	5057	Copper and asbestos washer for same		U	4	
11	56	Front cylinder oil pipe connection		2	6	
23	3453	Union nut for above only		2	7	
11	5052	Compression or priming ten		2	é	
23	5053	Washer for priming washer tap		4	2	
14	873	Crankcase half (transmission side) with bush			2	
	0010	and studs complete	8	3	0	
7.	3918	Crankcase half (time gear side) with husbes and	•		Ü	
	FECO	studs complete	4	12	0	
11	5760	Oil box cap only for above		4	8	
7 #	4106	Screws for securing same			4	
1)	3919 4034	Timing gear cover (see Valve gear)	1	4	8	
1.2	18	Crankcase (bottom bolt)			11	
1 p		Crankcase 5/16in. bolt (short)			11	
11,	17 4	Crankcase 5/16in. bolt (long)			11	
10	3	Crankcase sin. bolt (long)			8	
11	ō	Crankcase in. bolt (short)			7	

		21			
H.E.	20	Specing celler for	£	8.	d.
	19	Spacing collar for same (long)			7
S.T.D.	4	Spacing collar for same (short) in.  Nut for 5/16in. crankcase bolt			7
	3	Niit for him oronicosas half			2
H.E.	4948	Crankcase apex bolt			3
٠, ١	<b>8574</b>	Crankcase aney holt nut			11
j, (	8089	Connecting rod middle (supplied only with roller			4
		ruce)	1		^
	6090	Connecting rod forked (supplied only with roller	1	8	0
		1200)	2	0	0
1)	57	Pair of rods complete with bushes and big end	_	•	U
	40	roller bearing with crank pin	4	19	8
**	4000	Camwheel complete (assembled)	1	0	ő
	4082 3922	Nut for securing magneto sprocket			4
٠,	3923	Cam lever (front inlet)		6	0
	3924	Cam lever (back inlet)		6	0
	3925	Cam lever (front exhaust)		6	0
	3928	Cam lever (back exhaust)		6	0
1, 4	-0-0	Cam lever pivot pins		1	9
ι, ξ	5885	Cable for sparking plugs (see Magneto P. No. 22) Crankcase oil box cap paper washer			
,, ,		oradicesse off box cap paper washer			1
		D.			
11.15					
H.E. 4	472	Drain plug and filter (crankcase)		4	8
		, , , , , , , , , , , , , , , , , , , ,		^	U
		E.			
H.E.	1 <sub>A</sub>	Engine plate (front left)		4	0
19	1	Engine plate (front right)		4	8
11	$2_{\mathtt{A}}$	Fingine plate (back left)		4 10	8 4
**	2	Engine plate (back right)		10	4
~ 11 -	16	Engine lug bolt back		10	8
S.T.D.	1	Nut for same			
		Finding nieto fiving halfs / 1			5
		P. No. 20)			
		Exhaust lifter (see valve lifter P. No. 25)			
		CALBUST VSIVES (SEE VOIVES)			_
$\mathbf{H}.\mathbf{E}.$	15	Engine lug bolt (front)		4	8
S.T.D.	1	Nut			8
$\mathbf{H}.\mathbf{E}.$	10	Exhaust pipe (front)		9 1	5
11	11	Exhaust pipe (back)		3 1 8	1
**	12	Exhaust pipe (tail)		5 1	
,, 40	012	Exhaust pipe union nut		2 1	
מים עו	87	Exhaust pipe union nut collar	1		3
H.F.B.	4	Spacing tube between silencer supports		1	9
H.E.	13	Exhaust tail pipe clip lug			8
*1	21	Tail pipe support bolt			ŏ
12	22	Tail pipe support bolt, long distance piece	•	_	ij.
F <sub>2</sub>	23	Tail pipe support bolt short distance piece	•		7

		iii was oic	,atca i	01 1100		d.
H.E. 356;		side)			1 5 1 5	0
H.E. 5536 ,, 5587 ,,5536/5537 ,, 5408 ,,4726/4727	Gudgeon pin cap (each Gudgeon pin with caps Guides for values (each	 s	   L		2 3 2 2	5
H.E. 5 ,, 4484 ,, 4483	Inlet pipe union nut Inlet pipe taper collar		•••		7 2 1	9 10 3
H.E. 4102	K. Key for flywheel shafts		•••			6
H.M.D. 5 H.E. 4082 H.M.D. 8 12 4 19 13 1 14 S.T.D. 12 H.M.D. 6 26 16 17 18 15 5 20	Magneto chain case (bac Magneto chain case (fro Magneto chain case spac Magneto chain case spac Magneto platform brack Magneto platform brack Folt for securing to engi- Washer for securing to en Magneto base bolt	wheel shaft  kk only)  nt only)  plete  cing collars  et (short side  et (long side  ne plate  ngine plate  ninal only  r cylinder)  nt cylinder)	e)  		1 1 10 3	2 7
H.E. 3626 ,, 3993 ,, 3252 ,, 29 ,, 35 ,, 3458 ,, 3451	O: Oil union (non-return valoil union (non-return valoil plug top (behind rear Oil pipe only Oil pipe top union nut Oil pipe bottom union nut Oil pipe union for front cy	ve disc.) cylinder) ut		•••	1 4 4	9 2 4 5 7 7



		This document was created for	r free	dįs	strib	ution in the	e AJS/M	latchl	less Egroups - do n�t resell		
п.		<b>P.</b>	_	٠.	٠.		H.E.		Valve complete with spring, cap and cotter	£ 8.	d.
$\mathbf{H}.\mathbf{E}.$	195	Piston only		15	0				(LDIet or exhaust)	o	
",	41	Piston complete with rings and gudgeon	1	3	7		11	4857	Valse spring	U	0 7
**	42	riston with gudgeon pin		18		•	9	5406	Valve spring washer		8
1)	207	riston ring	• •	1	8	ı	11	550 <b>2</b>	. Valve apring collar		9
11	230	Pinion wheel (small timing gear)		4	0	•	11	3469	Valve cotter		2
J j	83			5	4		11	5408	Valve guide (inlet or exhaust)	2	
						•	21	4688	Valve lifter cam and rod attached	12	
		S.				₩	,,	4290	Valve lifter spring	12	6
$\mathbf{H}.\mathbf{E}.$	4303	Shaft for flywheel (transmission side) (be	.11				11	4687	taive litter rod guide	2	
		bearing		5	6		2.0	4191	varve inter tubular spacing sleeve	ī	
1)	3953	Shalt for flywheel (valve gear side)	••	5	6		1)	4323	Coller or cap for same	_	11
1,	4078	Shall for flywheel (crank nin)		5	в		2 }	4954	Valve litter wire adjuster and nut	1	3
11	<b>324</b> 9	Nut for fixing crank pin	••	·	7		3 p	4324	Collar or support for same		3
11	214	Nut for drive side shaft (flywheel end)			7		**	4193	Valve lifter rod brass voke end		3
11	<b>324</b> 9	Nut for drive shaft (sprocket end)			7		110 %	4234	Valve litter wire brass nipple	_	4
71	4606	Nut for gear side shaft			7		., 4950	0/881	Valve cap (see cylinder)	3	8
1,	3582	Locking screw for shaft fixing nuts			2				Vacuum valve (see non-return valve P. No. 99)	_	J
13	26	Sparking plug		5	ō		1/2	230	Valve gear small pinion (see pinion P No. 24)	4	0
f <sub>1</sub>	38	Sparking plug washer		_	2		H.G.	92	VELVE HITER Cable (inner)		10
22	260	Stud for holding down cylinder (see cylinder).			4		3 p	93	Bive litter cable (outer)	3	10
11	4083	Stud for holding down valve gear cover (shor	t.)		4			01	Valve litter cable nipple (gear box end)		1
11	30	Stud for holding down valve gear cove	er				21	91	valve litter adjuster and nut		9
		(medium)			5		P1	88	Valve lifter adjuster support	1	8
*2	81	Stud for holding down valve gear cover (long).			5		*1	86	Valve litter cable voke		9
1.	3574	in. nut for above			4		11	87	Pin for same		5
11	4857	Spring for valve, etc., (see valves)	••		7		11	79	valve litter lever with stop pin only	3	4
2.8	24	Silencer complete		10	0		11	82 0f	Valve lifter lever pawl		9
11	6	Silencer case and straps only	••	5	4		**	85 02	Valve lifter lever pawl spring		1
F1	9	Silencer end cap	••	2	0		S.T.D.	83	Valve lifter lever pawl stud or bolt Nut for same		9
S.T.D.	8		••	1	1		"H.G.	. <u>4</u> 80			2
		Nut for same	••		2			81	Spigot washer for bearing of valve lifter lever		2
$\mathbf{H}.\mathbf{E}.$	14	Sprocket for transmission		8	9		FT	85	Thick washer for bearing of valve lifter lever		4
11	3249	Nut for fixing same	••		7		',	00	Stud for mounting bearing of valve (see gear		
a iii n	4102	Key for fixing same (see keys P. No. 22)			6				DOX)		5
S.T.D.	15	Lock screw for nut	• •		1						
		_							GEAR BOX.		
		T.					SECTI	H NO	.G.		
H.E.	<b>40</b> 90	Tappet body (short or long)	• •	2	0	•	H.G.	58	Gear box shell	1 10	10
1,	4794	Tappet head	• •	1	10	1	**	59	Gear how and plate	1 10	
11	4107	Tappet head-lock nut		_	7		11	34	Genr how and plate stud (short)	18	
12	43	Tappet complete (short)		4		*			Gear box end plate stud (snort)		5
++	44	Tappet complete (long)		4	5	I	11	57	Utost Dox Daner loint washer		5 1
11	4726	Tappet guide (inlet)		2	7	₩.	S.T.D.	б	Gear box and plate nute		2
11 .	4727	Tappet guide (exhaust)	• •	2	7	**	H.G.	43	Special end plate put for K S apring		8
							1,	40	Filling oil plug		11
		₹.					1,	41	Drain oil plug		8
H.E.	3919	Valve gear aluminium cover	1	A	P		**	47	Gear striker	5	4
11	4083	Stude for fixing (con stude)	т	4	8		21	53	Gear striker lever	3	9
19	5505	Valva stem only (inlet or exhaust)		A	4 8		_ 1)	48	Gear striker key		3
.,			• •	4	Q	100	S.T.D.	8	Gear striker end nut		3
						- 007			***		_

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ПО		. This do	cument www	as cre	ated fo	or fr	ee distr	ibution in	the AJS/Matchless Egroups - do net resell
H.G.	5.								-gp-, <u>2</u>
2 g	4(	UBBI Striker glan	d nut		• • •	• •	1 1		!
1,	49	Gear striker gland	l nut loble -	nt.	•••	•••	1 1		HC m1
F1	50	A COOK AMIREL LEIL	Waghar	a v	• • •		,	9	HG 51
12	52	Gear striker shoe		•••	• • •	•••		1 •	
*)	5	Layshaft (comple	te with hus	hea)	•••	• • •	2 1		
1,1	t	, was anoth disp			•	•••	1 9 9		₩G5
S.T.D		Layshaft spindle		• • • •	•••	• • •	2 1		S <sub>TD</sub> I
		⊥avshaft spindle	put	***	•••	•••	5 5	3	
$\mathbf{H}.\mathbf{G}.$	ç	Wain driving shad	't	***		• • •	1 7	•	HG 9 HG 58
"	2	Sleeve pinion		•••	• • •	•••	1 1 6	j	HG1 HG70
11	70		m hooming		. • •	•••	15 (	-	STRIO HG17
11	17	bieeve pinion spro	cket 17 tool	h (or 15	tooth	• • •	15 (		HG87
S.T.D.	L						9 5		HG53 11076
H.G.		Dieeve pinion apro	ocket mut lac	k screw	•••	• • •	10	)	нсво О
H.G.	76	~ too to binion she	K' K'AT. DATE			•••	1		HGI5 HGI
д.б.	15	Oleeve pinion felf	washer	•••	* * *	•••	9		
1.	69	Driving shaft bear	ing K.S. en	d	•••	• • •	12 0		HC81 HC48
"	3	מסנמנט שונשויט			_,	• • •	13 3		HGIO HGI3
7 ?	4	Low speed loose	oinion		•••	•••	12 5		HG86
"	48	Driving shaft key	***			• • •	7 8		HG4 HG3 HG14 HG49 HG46
			CH PART		•••	• • •	3		HC69
H.G.	95	Clutch driving	CH PART	3.					
	42	Clutch driving spr	ocket (with	rings)			1 19 8		HG40 5m5 HG35 Sm5 HG34 HG50
1 g 2 g	98	ATTRICT DIRIGHT ITONY	(888Amhlad	1	• • • •		18 3		-: Hr41 5ml2 HG39 uc - 1 HG44
	23	Clutch plate back	(assembled	l)			16 8		
1,	28	Clutch rings (rener	ved at work:	s only 2	rings) .		1 8 6		HG36
71 22	27						5		H025 HG26
22	29	Clutch spring thim	ble	•••	,		9		
11	30	Clutch spring stud		• • •			์ 5		M6 30
11	36	Clutch spring stud	nut	•••			4	4	
S.T.D.	15	Nut for securing b. Lock screw	ick clutch p	late	,		5		14042
H.G.	26	Clutch drawpin nu	·	•••			1		++10.42
11	25	Crucch drawpin nu					т.		
		Chitch drawnin no	ы (т.н. thi	read)			5		HG28 HG95 HG27 HG98
4.4		· · · · · · · · · · · · · · · · · · ·	g wachar			••	5 3		HG28 HG95 HG27 HG98
11	24	Clutch drawpin (s	g washer		··· .		5 3 3 0		HG28 HG95 HG27 HG98
7.8	24 99	Clutch drawpin (v	g washer vith rivets)	•••	··· .		5 3 3 0 1 15 6		HG28 HG95 HG27 HG98  HG85 HG16 HG16  HG16 HG16  HG16 HG16  HG16 HG16
7 f	24 99 33	Clutch drawpin (v Clutch pedal com Clutch pedal portio	g washer vith rivets) plete	•••	··· .		1 15 6		HG28 HG95 HG27 HG98  OUTSIDE HG16
7 t 7 7	24 99 38 23	Clutch drawpin (v Clutch pedal com Clutch pedal portio Clutch pedal openi	g washer with rivets) plete n only	··· ,		 	1 15 6 11 5		HG85 HG95 HG96 HG96 HG96 HG96 HG96 HG96 HG96
7 f	24 99 38 23 60	Clutch drawpin (v Clutch pedal com Clutch pedal portio Clutch pedal openi Clutch pedal openi	g washer with rivets) plete n only ng sleeve on	··· ,		••	1 15 6 11 5 6 6	•	HG85 HG95 HG96 HG96 HG96 HG96 HG96 HG96 HG96 HG96
71 77 71 11	24 99 38 23 60 61	Clutch drawpin (v. Clutch pedal com: Clutch pedal openic Clutch pedal openic Clutch pedal openic Clutch pedal anche	g washer with rivets) plete n only ng sleeve on	  ly 		••	1 15 6 11 5 6 6 2 9	t	HG28 HG95 HG27 HG98  HG85 HG95 HG96  HG100 HG100  HG96
;; ;; s.T.D.	24 99 33 23 60 61 4	Clutch drawpin (v. Clutch pedal com: Clutch pedal openic Clutch pedal openic Clutch pedal openic Clutch pedal anche Clutch pedal pedal anche Clutch pedal pedal anche Clutch pedal p	g washer vith rivets) plete n only ng sleeve on ng sleeve cl pring rod ring rod no	ly		•••	1 15 6 11 5 6 6	t	HG 28 HG 95 HG 27 HG 98  HG 33 HG 60  HG 100  HG 100
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S.T.D. H.G.	24 99 38 23 60 61 4 74 75 22	Clutch drawpin (v. Clutch pedal com. Clutch pedal openic Clutch pedal openic Clutch pedal ancho Clutch pedal ancho Clutch pedal ancho Clutch pedal end ca Clutch pedal ball the	g washer with rivets) plete n only ng sleeve on ng sleeve cl oring rod ring rod nu p (with oil t ap lock nut p oil hole co rust race	ly ts			1 15 6 11 5 6 6 6 2 9 4 9 2 6 10 3 4 2 2	1	HG 28 HG 95 HG 27 HG 98  HG 85 HG 95 HG 97  HG 100 HG 100  HG 100 HG 73 3m4  HG 54 3m 14
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	. ~		FIXING STRAPS.								(For stand clip parts see mudguards.)	
벎	.G.	65	Gear box strap only				_				·	
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	T.D.	4	Gear box strap nut				5		J.F.	29	Didecar frame (lage fittings)	
Ĥ	.G.	63	COAF DOX STRAD SECURING DID			2			S.C.M.	8	DIGGOST Trame rear connection	_
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S H	G.L.       	1 2 3 4 5 6 7 8 13 5 14 15 23 10 18 19 5 11 12	Top portion gear quadrant (gate) Bottom portion gear quadrant Gear lever Gear lever ball screw Gear lever ball Gear lever spring washer Gear lever spring washer cap Gear lever bush Gear quadrant bolt Gear quadrant bolt nut Gear quadrant fixing stud Gear quadrant fixing stud Gear rod complete Gear rod top portion Gear rod top yoke end Gear rod top yoke end bolt Gear rod spring box or thimble Gear rod spring box cap		11 1	50 33 31 51 11 62 4 61 10 9 10 4 2 8		1	H.F.  J.F.  H.F.  S.T.D.  H.F.  S.T.D.  J.F.  ""  H.F.	104 105 60B 60A 60 62 61 64 2 63 1. 61B 61A 61 81	Sidecar main front connection nut Spring washer for same  Sidecar front auxiliary stay complete Sidecar front auxiliary stay with yoke end and lock nut only Sidecar front auxiliary stay bare Screwed yoke end only for same Lock nut for above Sidecar stay eye bolt Nut for same Sidecar stay yoke end bolts (each) Nut for above Sidecar rear auxiliary stay complete Sidecar rear auxiliary stay with yoke end and lock nut only Sidecar rear auxiliary stay bare Other parts as for front stay Sidecar wheel stand Bolt for same (each) Nut for stand bolt	9 11 2 8 9 6 4 3 3 3 3 9 7 7 7 7 7
S H	G.L.       	1 2 3 4 5 6 7 8 13 5 14 15 23 10 18 19 5 11 12 20	Top portion gear quadrant (gate) Bottom portion gear quadrant Gear lever Gear lever ball screw Gear lever ball Gear lever spring washer Gear lever spring washer cap Gear lever bush Gear quadrant bolt Gear quadrant bolt nut Gear quadrant fixing stud Gear quadrant fixing stud Gear rod complete Gear rod top portion Gear rod top yoke end Gear rod top yoke end bolt Gear rod spring box or thimble Gear rod spring box cap Gear rod springs		11 1	5 0 3 3 3 1 5 5 11 6 2 4 6 10 9 10 4 2 8 9		1	H.F.  J.F.  "" S.T.D.  H.F.  S.T.D.  J.F.  "" H.F.  S.T.D.	104 105 60B 60A 60 62 61 64 2 63 1. 61B 61A 61 81	Sidecar main front connection nut Spring washer for same Sidecar front auxiliary stay complete Sidecar front auxiliary stay with yoke end and lock nut only Sidecar front auxiliary stay bare Screwed yoke end only for same Lock nut for above Sidecar stay eye bolt Nut for same Sidecar stay yoke end bolts (each) Nut for above Sidecar rear auxiliary stay complete Sidecar rear auxiliary stay with yoke end and lock nut only Sidecar rear auxiliary stay bare Other parts as for front stay Sidecar wheel stand Bolt for same (each) Nut for stand bolt	9 11 2 8 9 6 4 3 3 3 3 9 7 7 7 7 7
S H	G.L.       	1 2 3 4 5 6 7 8 13 5 14 15 23 10 18 19 5 11 12 20 21	Top portion gear quadrant (gate) Bottom portion gear quadrant Gear lever Gear lever ball screw Gear lever ball Gear lever spring washer Gear lever spring washer cap Gear lever bush Gear quadrant bolt Gear quadrant bolt nut Gear quadrant fixing stud Gear quadrant fixing stud Gear rod complete Gear rod top portion Gear rod top yoke end Gear rod top yoke end bolt Gear rod spring box or thimble Gear rod springs Gear rod bottom portion Gear rod bottom portion		11 1	10 11 6 2 4 6 10 9 10 4 2 8 9		1	H.F.  J.F.  H.F.  S.T.D.  H.F.  S.T.D.  J.F.  ""  H.F.	104 105 60B 60A 60 62 61 64 2 63 1. 61B 61A 61 56	Sidecar main front connection nut Spring washer for same  Sidecar front auxiliary stay complete Sidecar front auxiliary stay with yoke end and lock nut only Sidecar front auxiliary stay bare Screwed yoke end only for same Lock nut for above Sidecar stay eye bolt Nut for same Sidecar stay yoke end bolts (each) Nut for above Sidecar rear auxiliary stay complete Sidecar rear auxiliary stay with yoke end and lock nut only Sidecar rear auxiliary stay bare Other parts as for front stay Sidecar wheel stand Bolt for same (each) Nut for stand bolt  SIDECAR BODY AND FITTINGS. Sidecar body (here)	9 11 2 9 9 14 3 3 9 7 5 8 5 7 7 0 4 2 9 9 7 7 0 4 2
S H	G.L.       	1 2 3 4 5 6 7 8 13 5 14 15 23 10 11 12 20 21 16	Top portion gear quadrant (gate) Bottom portion gear quadrant Gear lever Gear lever ball screw Gear lever ball Gear lever spring washer Gear lever spring washer cap Gear lever bush Gear quadrant bolt Gear quadrant bolt nut Gear quadrant fixing stud Gear quadrant fixing stud nut Gear rod complete Gear rod top portion Gear rod top yoke end Gear rod top yoke end bolt Gear rod spring box or thimble Gear rod springs Gear rod bottom portion Gear rod bottom portion Gear rod bottom portion Gear rod bottom portion		11 1	3 3 3 3 1 5 11 6 2 4 6 10 9 10 4 2 8 9 2 10		1	H.F.  J.F.  "" S.T.D.  H.F.  S.T.D.  J.F.  "" H.F.  S.T.D.	104 105 60B 60A 60 62 61 64 2 63 1. 61B 61A 56 96	Sidecar main front connection nut Spring washer for same  Sidecar front auxiliary stay complete Sidecar front auxiliary stay with yoke end and lock nut only Sidecar front auxiliary stay bare Screwed yoke end only for same Lock nut for above Sidecar stay eye bolt Nut for same Sidecar stay yoke end bolts (each) Nut for above Sidecar rear auxiliary stay complete Sidecar rear auxiliary stay with yoke end and lock nut only Sidecar rear auxiliary stay bare Other parts as for front stay Sidecar wheel stand Bolt for same (each) Nut for stand bolt  SIDECAR BODY AND FITTINGS. Sidecar body (bare)	9 11 2 9 9 14 3 3 9 7 5 8 5 7 7 0 4 2 9 9 7 7 0 4 2
S H	G.L.       	1 2 3 4 5 6 7 8 13 5 14 15 23 10 11 12 20 21 16 5	Top portion gear quadrant (gate) Bottom portion gear quadrant Gear lever Gear lever ball screw Gear lever ball Gear lever spring washer Gear lever spring washer cap Gear lever bush Gear quadrant bolt Gear quadrant bolt nut Gear quadrant fixing stud Gear quadrant fixing stud nut Gear rod complete Gear rod top portion Gear rod top yoke end Gear rod top yoke end bolt Gear rod spring box or thimble Gear rod springs Gear rod bottom portion Gear rod bottom portion cross head Gear rod bottom portion cross head		11 1	3 3 3 1 5 11 6 2 4 6 10 9 10 4 2 8 9 2 10 9		1	H.F.  J.F.  S.T.D.  H.F.  S.T.D.  J.F.  J.F.  J.B.D.	104 105 60B 60A 60 62 61 64 2 63 1. 61B 61A 56 96	Sidecar main front connection nut Spring washer for same  Sidecar front auxiliary stay complete Sidecar front auxiliary stay with yoke end and lock nut only Sidecar front auxiliary stay bare Screwed yoke end only for same Lock nut for above Sidecar stay eye bolt Nut for same Sidecar stay yoke end bolts (each) Nut for above Sidecar rear auxiliary stay complete Sidecar rear auxiliary stay with yoke end and lock nut only Sidecar rear auxiliary stay bare Other parts as for front stay Sidecar wheel stand Bolt for same (each) Nut for stand bolt  SIDECAR BODY AND FIFTINGS. Sidecar body (bare) Sidecar body complete with screen and bearer	9 11 2 9 9 14 3 3 9 7 5 8 5 7 7 0 4 2 9 9 7 7 0 4 2
S H	G.L.  F.D. G.L.	1 2 3 4 5 6 7 8 13 5 14 15 23 10 11 12 20 21 16 5	Top portion gear quadrant (gate) Bottom portion gear quadrant Gear lever Gear lever ball screw Gear lever ball Gear lever spring washer Gear lever spring washer cap Gear lever bush Gear quadrant bolt Gear quadrant bolt nut Gear quadrant fixing stud Gear quadrant fixing stud nut Gear rod complete Gear rod top portion Gear rod top yoke end Gear rod top yoke end bolt Gear rod spring box or thimble Gear rod springs Gear rod bottom portion Gear rod bottom portion cross head Gear rod bottom portion cross head		11 1	10 3 3 3 3 1 5 5 11 6 2 4 6 10 9 10 4 2 8 9 2 10 9 2		1	H.F. J.F. S.T.D. H.F. S.T.D. J.F.  J.F. S.T.D. J.F. J.B.D.	104 105 60B 60A 60 62 61 64 2 63 1. 61B 61A 56 96	Sidecar main front connection nut Spring washer for same  Sidecar front auxiliary stay complete Sidecar front auxiliary stay with yoke end and lock nut only Sidecar front auxiliary stay bare Screwed yoke end only for same Lock nut for above Sidecar stay eye bolt Nut for same Sidecar stay yoke end bolts (each) Nut for above Sidecar rear auxiliary stay complete Sidecar rear auxiliary stay with yoke end and lock nut only Sidecar rear auxiliary stay bare Other parts as for front stay Sidecar wheel stand Bolt for same (each) Nut for stand bolt  SIDECAR BODY AND FITTINGS. Sidecar body (bare) Sidecar body complete with screen and bearer bars	9 11 2 9 9 11 2 9 9 9 9 9 9 9 9 9 9 9 9
S H S	G.L.  F.D. G.L.	1 2 3 4 5 6 7 8 13 5 14 15 23 10 11 12 20 21 16 5	Top portion gear quadrant (gate) Bottom portion gear quadrant Gear lever Gear lever ball screw Gear lever ball Gear lever spring washer Gear lever spring washer cap Gear lever bush Gear quadrant bolt Gear quadrant bolt nut Gear quadrant fixing stud Gear quadrant fixing stud nut Gear rod complete Gear rod top portion Gear rod top yoke end Gear rod top yoke end bolt Gear rod spring box or thimble Gear rod springs Gear rod bottom portion Gear rod bottom portion Gear rod bottom portion Gear rod bottom portion		11 1	3 3 3 1 5 11 6 2 4 6 10 9 10 4 2 8 9 2 10 9		1	H.F.  J.F.  S.T.D.  H.F.  S.T.D.  J.F.  J.F.  J.B.D.	104 105 60B 60A 60 62 61 64 2 63 1. 61B 61A 56 96	Sidecar main front connection nut  Spring washer for same  Sidecar front auxiliary stay complete  Sidecar front auxiliary stay with yoke end and lock nut only  Sidecar front auxiliary stay bare  Screwed yoke end only for same  Lock nut for above  Sidecar stay eye bolt  Nut for same  Sidecar stay yoke end bolts (each)  Nut for above  Sidecar rear auxiliary stay complete  Sidecar rear auxiliary stay with yoke end and lock nut only  Sidecar rear auxiliary stay bare  Other parts as for front stay  Sidecar wheel stand  Bolt for same (each)  Nut for stand bolt  SIDECAR BODY AND FITTINGS.  Sidecar body (bare)  Sidecar body complete with screen and bearer bars  Sidecar body rear hearer har	9 11 2 9 9 11 2 9 9 9 9 9 9 9 9 9 9 9 9

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		This document was created	for fr	ലെ	اندا	tributio	n in the	Δ Ις/Ν/	1atch	aless Farouns - do not resell	
H.B.D.	. 9	This document was created Sidecar body rear bearer bar coach bolt (e	anah)	COSC	ABO	າມວັດເຄັ	,,, ,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	HBD	57	Sidecar body door handle	£ s. d.
**	24	Nut for same				1			58	T-40 4 1 0	36
11	13	Large washer for above	• • •			1		11	143	Fuelch feet best	5
21	12	Sidecar body front houses has	•••		9	4		17		Eyelet for hood curtain	2
7:	25	Coach holts for some (each)	•••		3	5	٠	1,	144	Press fastener complete	6
11	24	Nut for shove	•••			2					
S.T.D.	3	Sidecar body front bearer bar and nut				Ţ				LUGGAGE CARRIER (CYCLE).	
H.B.D.	14	Spring washer for same	• • • •			<b>0</b>		J.F.	8	Luggage carrier only	10 0
S.T.D.	10	Plain Brasher for some	• • • •			3		8B.	75	Fixing holts for frame	10 0
12	14	Split hin for same	• • •			1		$\mathbf{H}.\mathbf{M}$ .	7	Bolt for fixing to mudguard top	4
H.B.D.	7	Sidecar hody front and a (a1)	•••		_	1		S.T.D.	5	Niit for como	3
H.F.	87	Bolt for securing (seeb)	• • •		5	9		H.M.	7	DOILTOF TIXING to near number plate	2
S.T.D.	4	Will for comming (analy)	• • •			5		S.T.D.	5	NIII tor shove	3
H.F.	85	Stiffing and plate	• • •		_	2			•		2
H.B.D.		D '1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	• • • •		1	1		•		FRONT FORK.	
	10	Top fixing hold for a sering			3	3		T 12 12	_		
S.T.D.	3	Top fixing bolt for same Nut for bolt				9		J.F.F.	9	Front fork girder (right side) standard	1 16 6
G.1,D.	9	Nut for bolt				3		**	6	FFORUTION CINDER (left side) at and and	1 17 0
J.B.D.	10	Bottom fixing nut only				3		11	AG	Front fork girder (right side) for front hand	
Б.Б.D. H.B.D.	16	Sidecar body luggage grid		1	8	6				Drake	1 17 0
д.р.р.		Top luggage grid fixing link (R.H.)			1	9		"	6.	Front brake girder (left side) for front hand	
7.7	18	Top luggage grid fixing link (L.H.)			1	9				Drake	$2 \ 2 \ 6$
17	28	Top luggage grid fixing link fly nut			1	5		H,F,F	32	Fork crown and steering column	16 11
71	1	Luggage grid body stud only (top)	•••		1	3		11	30	Fork crown ball race	3 2
0 11 1	2	Luggage grid body stud only (bottom)			1	0		1,	31	Ball race for frame	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
S.T.D.	4	Nut for same (inside body)				2		19	17	Complete set of steering head halls	1 3
H.B.D.	4	Washer for same (inside body)				2		**	42	Fork head clip	11 2
S.T.D.	Ð	Nut for same (outside)	•••			2		**	8	Pinch bolt for same	10
_ ''	12	Washer for same (outside)				1		S.T.D.	3	Nut for above	3
$\mathbf{H}.\mathbf{B}.\mathbf{D}.$	15	Luggage grid spare wheel straps (each)			1	1		$\mathbf{H}.\mathbf{F}.\mathbf{F}.$	16	Fork head clip with sleeve (with race)	5 11
S.T.D.	3	Luggage grid spare wheel fixing nut				ŝ		11	7	Fork head clin gloove (loss reso)	
11	10	Washer for same				ĭ		1.	31	HOPK bood alin alcome (wasser 1)	3 6
H.B.D.	48a	Windscreen complete (with dash and all fitti	nes			•		J.F.F.	55	HOTE STEEDS how commission 11 1	2 5
		including side wing right side)	6-	3 4	4	O.			33	POPE enting how on to	1 14 8
"	$4\overline{8}$	Windscreen complete (with dash but less s	ida 			U		H.F.F.	18		15 0
••		wing)		2 10	١.	Λ		_	27	lionie appino hou to	3 4
,,	141	Side wing with all fittings right side	•••	14		0		1)	20	Fork spring box top cap  Fork spring box plunger rod	3 4
• • • • • • • • • • • • • • • • • • • •		Left side wing (if required) with all fittings	• • • •	14		0		S.T.D.	2	Fork spring box plunger rod nute (each)	4 2
* 1	118	Wing only less fittings	• • • •	10		0		H.F.F.	$2\overline{1}$	Fork apring box plunger rod nuts (each)	4
• • • • • • • • • • • • • • • • • • • •	142	Top side wing hinge left or right with fiy nut	***			-			25	Fork spring box plunger rod washer	<b>2</b>
	128	Fly nut only	• • • •	2		0	b 4	1)		Fork main spring	3 3
	39	Windscreen frame and glass only	•••			6	1	11	26	Fork auxiliary spring (fits inside above)	1 5
*1	48	Left side windcoroon him and it.		17				**	28	Fork recoil spring	ิลั
11	42	Left side windscreen hinge with fly nut	•••		-	3		a iii m	13	FORE Spring DOX Divinger rad bottom halt	6
+1	40	Right side windscreen hinge with fly nut Fly nut only		4	. {	_		S.T.D.	3	Nut for above	3
71	63	Windsamon do-h 11:	• • •		6			H.F.F.	34	Fork bottom link or rocker (right side)	3 0
,,	15	Windsgraan folding story	• • •	1 2	•	-	<b>1</b>	**	34A	FORK bottom link or rocker (left side)	3 2
1	.15 .45	Windscreen folding stay	• • •	1	ξ	3	r	33	22	Fork bottom link or rocker (right side)	3 2
• •	29	Windscreen dash clips (per set)		2		)		**	22 <sub>A</sub>	Fork top link or rocker (left side)	3 5
	20 20	Hood complete with all fittings)		3 18		3		1)	18	Long rocking spindle	$\begin{array}{ccc} 3 & 3 \\ 7 & 2 \end{array}$
	38	Hood back rest (each)		2	€	3		1,	86	Short rocking spindle	6 1
,,	53	Hood support bracket (each)	• • •	4	0	)		_ 11 _	15	Left side spindle locking nut	5
,,	55 ·	Cap nut for same			4			S.T.D.	3	Right side nut	3
11	56	Washer for above	•••		2	2		71	10	Washer for above	<i>o</i>
					_						ı

H.F.F	. 14	Spindle grance and	£	8.	d.		33	
	44				5		TIANTE ASSESSMENT &	s. d.
#1 12	45			4	9		IANA AND FITTINGS.	
S.T.D.		Split pin for security at the fulls (each)			9		=	4 0
H.F.F		Head adjusting put (ancies)			1		7, 26 Tank (complete with all fittings) 4	16 6
J.F.F.	35	Head adjusting nut (encircles handlebar stem)		<b>2</b>	6	*	10 IBBK (less all fittings with switch have in a	7 0
	00							3 2
"	35/	etc.)	12	9	6		TENTION IBVEL SDIING WARNAM	1
- 11	2	Fork complete (less stand and mudguard, etc.)	10	5	6		1 1gillion spring lever washer can	4
$\mathbf{H}.\mathbf{F}.$	96	DOLL TOT TIXING SAME (enab)	1	11	6		13 1501000 lever spring washer can nut	5
S.T.D.	4	Nut for bolt			4	<b>A</b> .	-B	$1 \overset{\circ}{4}$
$\mathbf{H}.\mathbf{M}_{\cdot}$	15	Stand fixing wing screw		1	2			1 4
		and wing serew		1	8			4 2
		MUDGHAPDS AND MUDGHAPARA					11 Gayna Ani	1 9
		MUDGUARDS AND MUDSHIELDS.				•	12 Glass top filler can (petrol compared as a second	1 9
J.M.	4	Front mudguard only	1	8	Λ		19. Glassia Cap (peutor comparement)	2 0
11	3	Back mudgiard only		-	0 6		11 CIRSS OTTA TOL BIDOAG	9
11	9	Sidecar mudguard only		4				1 7
	6	Front mudguard stav	7	.4	9		16 Tank fixing balk	6
H.M.	7	Front mudguard stay bolt (top)			. D		7. 17 Tank fixing bolt rubber pad washer	5
S.T.D.	5	Nut for same			9		25 Semi-automatic oil pump complete 1	2
H.M.	3	Front mudguard stay bolt (bottom)			4		S.T.D. 15 Fixing screws for oil pump complete 1	3 6
S.T.D.	11	Washer for above			7 1	-	H.T. 29 Oil pump glass barrel	2
S.C.	62	Rear mudguard fixing bolt (to rear fork bridges		•	6		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0
S.T.D.	5	Nut for above			$\tilde{2}$		BILLU IV. F	
$\mathbf{H}.\mathbf{M}.$	7	The mudguard nxing bolt (to top of luggage			_	•	~~· ~ · · · · · · · · · · · · · · · · ·	2 0
C m D	_	carrier)			8		DDINGIA	9
S.T.D.	5	Nut for above			2		2.1. 10 Oil pump leather cup washer	1 3
$\mathbf{H}.\mathbf{M}.$	7	Roar mudguard fixing bolt (to rear of luggage			_			3
c m n	-	Carrier)			3			
S.T.D.	155	Nut for same			2		STANDS,	
8B.	175	Rear mudguard stand clip stud			4		J.F. 14 Back wheel stand only	
1)	173	Rear mudguard stand clip spring			1			5 0
S.T.D.	171 5	Recessed nut for above	_		3		TITLE OF DECK WHOSE READING DESIGN BOOK SOLD (App. 1.)	8
	υ κ	Locking nut for above	-		2		VIE. DO DIGE WISSI STANG ONLY	3
s.č.m.	e e	Nut for stand clip stud (inside mudguard)		,	2		The state of the property of the state of th	.1 9
J.F.	58	Fixing bolts for sidecar mudguard		•	8	•	S.T.D. 4 Side wheel stand fixing bolt nut (each)	4
S.T.D.	5	Special washer for above			6		J.F.F. 2 Front wheel stand only	<b>2</b>
H.M.	15	Stond fring			2			16
	10	Stand fixing wing screw (for front and side stand)				1		4
	6		1	Ļ,	8	•		2
S.T.D.		Front number plate only (unlettered) Front number plate fixing screw	1	L :	2			18
	24				2			
H.M.	25	Mudshields (complete with all fittings)		. 1	2		REAR BRAKE.	
11	22	NINGSDIELD LIEft pido) only	12		6		H.B. 36 Brake drum (less sleeve)	,
11	22A	Mudshield (right side) only	5		3	4	47 Brake drum assembled with bearing 1 18	3 3
,,	26	Mudshield rod	5		3		53 Brake drum cover plate (with shoes etc.) 2 14	
S.T.D.	4	Mudshield rod end nuts (each)	1		4		53 Brake drum cover plate (with shoes, etc.) 1 6	
1.	11	Mudshield rod end washer		. :			10/10A DTake shoes (ner nois)	
н.й.	7	Mudshield fixing bolts (each)		]			12 Draka shoe evnendon	3
S.T.D.	5	Mudshield fixing holt mute (each)		-			18 Brake shoe expender large	9
				. 2	ě.		S.T.D. 7 Brake shoe ornerder at 5	0
							broad ando dapander end nut	3

~··~.	•	oratio and oxpandor toj		U
7.	52	Brake shoe expander grease cap only		5
11	14	Brake lever pull-off spring		5
**	19.			3
11	<b>17</b> .	Brake shoe stud connecting link		3
1,	21	Brake drum centre sleeve	8	11
1,	22	Brake drum centre sleeve		2
1.1	28	Brake drum bearing cap	2	9
1,	25	Brake drum centre sleeve nut		9
11	35	Brake drum centre sleeve washer		3
17	4	Brake lever (right side)	7	0
2.0	6	Brake lever (left side)	7	6
11	5	Brake lever (left side) cross head	i	4
S.T.D.	4	Brake lever (left side) cross head nut	-	$\hat{2}$
	11	Brake lever (left side) cross head washer		1
н.в.	3	Brake pedal shaft	4	4
S.T.D.	3	Brake pedal shaft end nut	-	ŝ
H.B.	7	Brake pedal shaft key		6
21	28	Brake pedal shaft sleeve, assembled with		0
		anchor plate	8	2
	1	Deales madelished also	0	9
"	46		4	0
**	10	Brake rod complete		
$J.\ddot{B}$ .	1	Brake rod only	3	4
И.В.	11	Brake rod yoke end	1	5
S.T.D.		Dealer and males and half and		4
S.1.D.	5	Brake rod yoke end bolt nut Brake rod nut		2
н.в.	4	Druke rod nut		2
н.в.	24	Breke drum (less hub and all fittings)	1 0	θ
17	20	Brake drum hub (and rivets only)	17	6
		FRONT BRAKE STANDARD.		
H.B.	37	Complete front rim brake	1 10	6
11	74	Front brake pad only	1 10	7
,, U	75	Front brake pad and holder (left side)	3	ó
	76	Front brake pad and holder (right side)	3	ő
11	77	Front brake pad and clip	ĭ	5
11	78	Front brake pad nut	-	6
	79	Front brake pad and clip Front brake pad nut Front brake arch	6	Ö
79	80	Front heales adjusting and -i-ak helt	U	4
"	81	Front broke adjusting rod pinch bolt		
11.		Front brake adjusting rod pinch bolt nut		2
11	82	Front brake adjusting rod pinch bolt washer		1
11	89	Front brake adjusting rod only	1	2
1,	84	. Front brake cable and spring box (assembled)	5	0
1.5	85	Front brake cable only (inner and outer) Front brake handlebar lever	2	6
**	50	Front brake handlebar lever	8	Ð
11	86	Front brake handlebar lever fulcrum bolt		6
22	87	Front brake handlebar lever fulcrum bolt nut		3
11	88	Front brake handlebar lever body fixing screw		1
πъ		(Special contracting band type.)		
H.B.	59	Band with Ferodo lining	16	2
0.00	61	Band with Ferodo lining Ferodo lining only	11	1
S.T.D.	33	Aluminium rivets for fixing (per doz.)		6

							_						
	H.B.	63	Buch This docum	ent was	created	d for fre	e disti	il <b>d</b> uti	on in the	AJS/Mate	chles	ess Egroups - do noffresell	
		65	Dong for reference of	Dand	***		,	4		. 10 0,			
	S.T.D.		Pin for small end of	band				6				OHAIN CASES AND CHAINS.	
		14	Split pin securing and	ne				1		J.C.C.	1	Page shain mand	<b>a</b>
	H.B.	66	Bolt securing brake h	and				ā		H.F.	186	Poor shein grand fries halt	J
	S.T.D.	8	Nut for same			••••		0	3				ł
	1)	10	Washer for same		•••	•• •••		8		S.T.D.	4		2
	$\mathbf{H}.\mathbf{B}$	64	Brake operation cran	le Lawon		••	_	1		H/2C.C	. 41	Front chain case (complete) 1 15 3	3
		70	Brake laway well -	r iever	***	•• •••	2	2	•	1,	41.	A Top portion of case only 16 6	3
	11	72	Brake lever pull-off	spring	_ •••		1	6		.,	41 <sub>B</sub>	B Bottom portion of case only 1 2 0	
	11		Brake lever cable con	inecting ${\mathbb C}$	<sup>J</sup> -piece .			9		S.T.D.	18	(their case egrams (each)	
	a 1: -	73	Fin for same					5	N.	H.C.C.	13	Slide for govering alutch nodel exerting	<u>.</u>
	S.T.D.	14	Split pin securing	***				1			-0	Transation hale seven with sight	)
	$\mathbf{H}.\mathbf{B}.$	71	Brake band stay and	mudenes	d stop o	om bined	0	1		<b>)</b> 1	0	Inspection hole cover with rivet 3	3
	,,	69	Bruke drum only	. —		numen	2			***	.7		3
		89	Brake operating cal	 .lo	- 444		1 17	6		11	14		3
	11	40	Brake operating cal Inner wire only	ue combi	ete with	nipples	5	<b>2</b>		**	8	Rear driving chain 1 7 6	3
	1)		Ture only	•••				10		29	15	Rear driving chain connecting link only 9	à
	19	41	Outer casing only				g	10		1,	19	Saming only for connecting light l-	ó
	_11_	42	Nipples only				_	B			16		2
	H.G.	91	Cable adjusting stop	•••				8		H.F.	207		
	S.T.D.	5	Lock nut for same	•••						11.1.			
				•••	•••			2		7 2	208		
					4					11	25		}
			WHEELS AND	DHUB	PARTS	_				11	24		)
	J.D.H.	46				•				1.	26	Rear chain adjuster end plate 9	)
	0.1.11.		Wheel complete with	rate (Dm	nlop)		62	3		S.T.D.	5	Rear shain adjuster and nut	
	**	46	Wheel complete with	n tyre (H	utchinson	ı)	6 1	9		H.F.	27	Rear chain adjuster anning	
	2.1	49	wheel complete (less	tvre)		-	3 10	0	· .			_	
	7,9	48	Wheel only (less hub	fittings)			2 5	ŏ	. ,			FOOTBOARDS AND PARTS.	
	H.D.H.	42	Wheel hollow spindle	with con-	Aq		10	8		H.F.B.	1	77 27 4 4 4	١.
	13	36	Wheel hollow spindle	CODER ON	lr (ocab)	• • • • • • • • • • • • • • • • • • • •		_		14,1,10,	0		
	11	41	Hub fixed ball cup				8	4		11	3		
	, ,	35	Hub screwed adjusting	•••	•••	• •••	4	в		7.0	Ð	Footboard cross tube 6	)
	2 p	40	Trub screwed adjustil	ng cup		•	9	0		3 9	2	Fcotboard rod (rear) link 11	
	12		Hub screwed adjusting	ig cup loc	knut		8	1		**	6	Footboard right front distance tube 11	
		8	Hub felt gland washe	F				2		11	7	Footboard left front distance tube 1 1	
	<b>3</b> P	9	Hub metal gland cap	washer				ลี		17	9	Footboard left rear (inside and outside) distance	
7.		47	Hub balls (per set)		***		4	A		,,			1
10	J.D.H.	16	Cover and tube (Dunl	om)				U			10		
3	77	14	Tube only (Dunlop)	○ <u>P</u> )	•••		2 12	3		**	10		
ři.			Cover and tube (Hute	-Todayana	•••	•	8	0		ř	4.,	Footboard centre front packing piece 1 9	ļ
	7.7	144	Tube cala (Trut 1	ruinson)	***	• • • • • • • • • • • • • • • • • • • •	2 11	8		1)	5	Footboard centre rear packing piece 9	ŧ
	<b>4</b> 4 4	147	Tube only (Hutchins	on)	***		7	6		S.T.D.	1	Footboard rod end nut 5	ļ
	H.D.H.		Tyre security bolt (ea	ch)				9			8	Footboard rod and washer	J
	11	81	Front wheel axle (les	s nut and	washer)		8	5	i	''	-	Toolboard fod end washer 2	
	11	18	Nut for same	•••			U					TOOL KIT.	
	S.T.D.	8	Washer for same		•••	• •••		5	'	H.T.K.	1 .	Oil injector 2 4	
	H.D.H.	32	Rear wheel arle (-it	1				1			9	A	
			Rear wheel axle (with	i ierke un	tand was	sher)	5	7		1,	2	0-in. combination phers 4 10	
	S.T.D.	8	TACUEL MILEGI PEXTO SILURI	I nut	***			5		1.7		6-in. wire screwdriver 1 7	
	D. I. D. II	-	Washer for small nut	***				1		3.0	4	Double-box spanner to suit \( \frac{1}{2} \)-in. and \( \frac{1}{2} \)-in. nuts \qquad 1 10	
	H.D.H.	<u>8</u> 1	Sidecar wheel axle (le	ess nut ar	nd washer	)	8	5	Ť	11	5	Double-box spanner to suit 4-in, and 5/16-in.	
	_ !! _	18	TARRETOL Bame	***			U					nuts 110	
	S.T.D.	8	Washer for same					5	1	17	8.	Single-box spanner 1.101 hex 2 1	
	H.D.H.	28	Hub lubricator grease	COD	***	• • • • • • • • • • • • • • • • • • • •		î			7	Tubular key and tommy for all tab	
	J.D.H.	1	Wheel rim (enamelled	l cal-	•••	• • • • • • • • • • • • • • • • • • • •		5		**	à	Grane aun	
		29	Whool and the terminelied	romà)	***	• • • • • • • • • • • • • • • • • • • •	9	3		11		Grease gun 7 3	
	**		Wheel spoke (each)		•••			1		7+		Tyre lever 1 1	
	71	80	Wheel spoke nipples (	each)			-	2		11		Tyre pump 11 0	
								-	1	"		6-in. adjustable spanner 7 6	
					•					11		Hub adjusting apanner 3 0	
									1				

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Et av	77 1.4	This document was	crea	ted fo	or free	e odis	trib	ution i	n the A	JS/Mate	chle	ss Egroups - do not fesell	0		
H.T	.K. 14 15	TOWN TOTH					3 4	<u> </u>				Saddle clip		s. c 2	
1,	20	Tool roll and kit complete	• • •	•••	• • •		5 8					Saddle spring			6
,,	21		. 4 4	•••	• • •		1 11					HANDLEBAR,		4	U
11	22	Double-end engine spanner for Valve cap tubular key			• • •		$^{2}$ $^{10}$		į.	H.F.	71	Handlahan hans	1		c
,,				•••	• • •		2 6	•		"	183	Handlahan with win and	1 1	7	-
H.E	27	A.M.A.C. CARBURETTOR  A Complete carburettor	AND	PAR	TS.	_			1	11	184	Handlebar with grips and brake lever, cable	T I	. 1	4
	58	Carburettor float only	•••	• • •	• • •		1 0	+				etc	2	3 1	10
,,	59	Carburettor needle valve	•••	• • • •	• • •		2 7			11	131	Handlebar grip only (open end)		1	
11	60	Carburettor needle valve cott	 Heroro	lin	• • •		1 9		Y	11	132	Handlebar grip only (closed end)		1 1	
71	61	Spare jets (each) standard			• • • •		ວ ຮ					MAGNETO AND PARTS.			-
1,	62	Spare jets (specially calibrated	l) each		•••		19			H.M.D	. 15	Complete magneto (M.L.)	6 1	0	Ω
	63	Carburettor control complete			•••	1 1	0 10			1,	17	Rear cylinder cable	0 1		0
1)	64	Carburettor control lever only			•••	10				**	18	Front cylinder cable		î	
11	65	Carburettor control cable only					šŏ			11	22	Carbon brush holder complete with brush		4 1	
1,	66	Corburettor control throttle va	lve only	7			10			1.6	23	Carbon brush only			6
,,,	67	Unrourettor control throttle va	dve spr	ing			5			Fe .	24		1	9	3
11	68	Carburettor control ebonite kr	ob -				5			1,	25	Contact breaker screws, (each), (long)		8	8
7.1	69	Carburettor jet holder	• • • •	• • •	• • •	]	9			• • • • • • • • • • • • • • • • • • • •	25/			8	5
**	70	Carburettor float chamber cap	• • •		• • •	4	! 3			**	20				3
"	11	Carburettor float tickler only	(plung	er sp	ring					11	· 20/			_	1
	33	and cap) Petrol pipe complete	• • •	• • •			9			21	R	Sprocket (see Section H.M.D.)			4
11				***	• • •	5	4			H.E.	26	Driving chain (see Section H.M.D.) Sparking plug (Lodge type)			8
H.E.		AND B. CARBURETTOR	AND	PAR	TS.						38	Sparking plug (Lodge type)		5	2
B/B	27 1	Complete carburettor Float chamber (body only)	• • •	• • •		3 1	_			• • • • • • • • • • • • • • • • • • • •		EQUIPMENT.			4
•	$\hat{2}$	Float chamber cap and tickler	• • • •	•••	• • •	10	_			H.E.Q.	87	Sidecar step complete, new pattern aluminium		^	^
71	3	Taper needle		•••	• • •	7	_			",	88	Didaga = 1: 1	L	0 2	U
11	4	Needle holder with screw	•••	• • • •	•••	1	9 7				89	Sidecar step fixing bolts (each)		ت	2
11	5/6	Float needle and collar	is.	• • •	• • • •	1	2			S.T.D.	4	Sidecar step fixing bolt nuts (each)			9
21	<b>9</b>	Float		•••	•••	2				H.E.Q.	90	Sidecar stepboard packing piece, per two halves			1
,,,	11	Jet size 40, 45 or 50				1	i			"	33	Speedometer complete	5 1	0	Ô
11	$21/22_{A}$	Fibre washer for jet				_	ī			1,	34	Speedomoter instrument only	2 1		
11	20	Small stop screw and fibre wa	sher				3					(with bracket 10/- extra).			
11	27	Ticklers only	• • •		***		4			21	85	Speedometer shaft only (inner and outer)	1 -	4	0
11	30	Spraying chamber only				8	6		·	1,	86	Speedometer drive box only (driving box and			
**	33/36	Spraying chamber cap with bus		• • •	***	3	0				0.4	drive bracket)		4	
11	49 50	Cap ring for securing		•••	•••	1	4			+1	24	Speedometer crown wheel only	1	8	0
1)	48/49	Clip and bolt for inlet port		• • •	• • •	1	9		į.	11	T	Speedometer drive bracket (driving box and			
,,,	38	Gauze screen and cap for air in Valves (per pair)		• • •	•••	1	9		•			drive bracket)	1	l 6	5
1)	41	Value enging (new neigh)		• • •	• • •	6	5			21	27	Speedometer drive bracket bolt		(	3
H.F.		Control levers complete	•••	• • •	•••	1	2			7.5	37	Acetylene lamp set complete, comprising head,			
C.	4	Throttle lever only	•••	* ***	•••	12	0					side and tail lamps and all fittings, brackets etc., (fitted)			_
1,	5	Air lever only		• • •	•••	<b>3</b>	0	,	Ť		38	TT - 7 1 - 1	66		
17	23	Control cables (outer) per pair			•••	3	5			11	15	Head lamp brooket (right side)	$\frac{2}{6}$		_
11	22	Control cables (inner) per pair				2	4			11	16	Head lamp bracket (left side)	6		
H.E.	33 <sub>A</sub>	Petrol pipe complete		• • •		5	4			11	95	Hend lamp bracket our piece (oach)	U	6	
		SADDLE AND PAR				•	-			S.T.D.	1	Head lamp bracket nut (each)		5	
$\mathbf{L}.$	45	Saddle complete				2	в			$\mathbf{H}.\mathbf{E}.\mathbf{Q}.$	39	Head lamp glass only	2		
		Saddle clip bolt				_	6			11	40	Head lamp reflector only	11		
		Saddle clip bolt nut and washe	r .				6			71	41	Head lamp burner only	2		
							-	4		٠,	48	Head lamp moulded end tube	1	6	j

H.E.	Q. 43	் பூளிர்க்கில் பிருந்திர் அத்த created for free distribution in the	A.IS/Matchless Egroups - do not resell
	4	4 Hand larm generated and the transfer of the distribution in the	7 Noorwater nood Egroups at Het reach
	4	- ANOM IMIL REHERATOR DRACKAE	
1,	46		
"	47	2-20 temb 81888	
* 1	96	STO TOTAL DITTIES	
1)	ð(		
	1.4	P1000 [11]	아들은 살으면 나는 그는 그는 그는 전에 되었다는 문화생님 점점 등에 가는 가는 가는데 점심으로 급했습니다.
**	14	5 Olde Iamp bracket couch half	
7.0	48	orde lamp rubber tubing (per foot)	
11	49		
17	50	Side and tail (amn generator breeks)	
11	51	zon romp only	
, .	52	Tail lamp burner only 5 0	
11	53	Lali lamp, burner dust con	
,,	54	Tail lamp rubber tubing (per foot) 1	
1)	5	Tail lamp rubber tubing (per foot) 3 Toil lamp rubber tubing ½-in. clip 3	
11	4	Tail lamp rubber tubing \( \frac{7}{3} - \text{in. clip} \)  Brace tubing \( \frac{7}{3} - \text{in. clip} \)  3	
,,	7	A MALE TOTAL DESCRIPTION OF THE PARTY OF THE	
11	6	Drugs vullig Isine and fail large)	(2) (2) (2) (2) (2) (2) (2) (2) (3) (3) (3) (3) (4) (4) (5) (5) (5) (5) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6
	20	Diass during sampe clin (each)	
11	21	Electric need famn breeket (Fight)	
11		Electric nead lamn brooket (left)	
11	56 60	DICCOME HEAD IAMEN (with built)	
17	60	THE COURT DEAD (AMIN high only /9 a - 110	
11	57		
f s	58	Filectric head lamp reflector	
"	59	The cure side lamp	
13	63	Electric side lamp bulb 12 0	
1)	61	Diffective side famn gloss and from	
,,	62	Allegerit pear lands	
11	63	Electric rear lamp bulb	** - ^ / 시간 (1) - ^ : : : : : : : : : : : : : : : : : :
1)	64	Spare bulbs in cose (1 of and 1	
**	65	Spare bulbs in case (1 of each, head and side) 1 8 Head lamp cable 9 6	
11	66	Sido lama 11	
	67	Rang lamp cell	
13	68	Cable (dynamate 11) 90	
	69	Choic (UYIIBIII) to switch how)	
1,	70	Caule (sidecar junction boy to spritch how)	
11		SIGCOM MILEMAN AND A CONTRACT OF THE CONTRACT	
1.	71	Spacet Aut CBS6	
F 5	72	Danvery Office	
**	73	Danci A G866 OULA	
**	32	Cable clip 11-in.	
••	4	Cable clip 4in 3	
11	5	Cable clip 4-in. (three parts)	表表示法學學學學學學學學學學學學學學學學學學學學學學學學學學學學學學學學學學學
**	97	141880 VIIO DIITIT complete	
11	74	Switch box complete	(TICK) 表示(1) (2) (TICK) (TICK
• •	98	Switch how turn built - 1 10 U	(1877) (1976) - 19 12 (1876) (1974) - 1975 (1976)
		,	
H.E.Q.	ΠE	HORN.	
ന.ഥ.ഗു.	75	Lucas No. 60 bulb horn, ebony and N.P. finish 15 6	
1)	76		
			· 100 / 100
٠,	99	Autokrat electric horn 1 5 6	
* * *	TOO	Horn reed only 100	(图157) (1757) (1
,,	101	Horn bulb only 1 6	
		6 6	
			图像被答案的 1. 1 图 图 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1